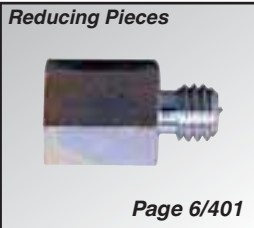
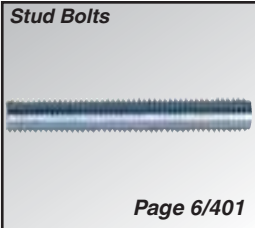
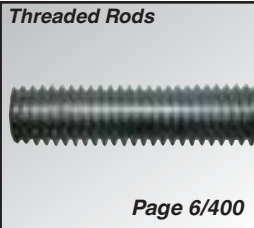


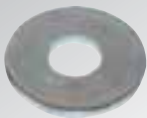
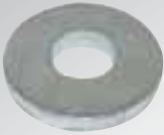
Miscellaneous



Nuts



Washers

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Sealing Rings

Sealing Rings DIN 7603  Page 6/452	O-Rings  Page 6/457
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Miscellaneous Fixing Parts

Schnorr Lock Washers



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Retaining Rings
DIN 6799



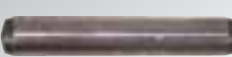
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Retaining Rings
DIN 471, 472



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Parallel Pins
DIN 7979



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Spring Type Straight Pins
DIN 1481



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Cotter Pins
DIN 94



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Lynch Pins



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Hitch Pins



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Clevis Pins
DIN 1434, Plain Steel



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Ball Joints



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Shackle
DIN 82101



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Carabiners
DIN 5299



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Stranded Steel Cable Shackle
DIN 741, 1142



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Cable Eye Stiffener
DIN 6899



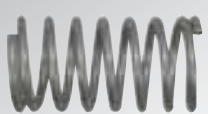
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Tension Springs
DIN 2097



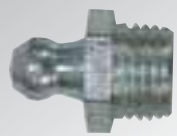
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Compression Springs
DIN 2095



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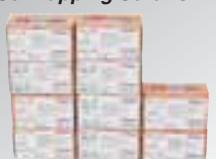
Lubricating Nipples
DIN 71412



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DIN Parts Packages

Self Tapping Screws



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Nuts



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Nuts and Washers



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Hex Head Bolts

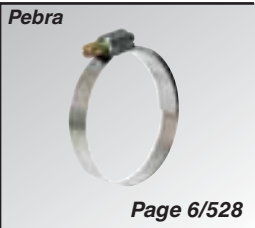


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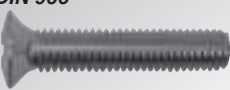
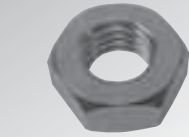
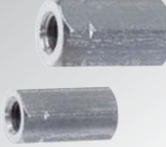
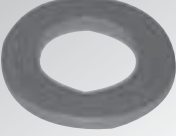
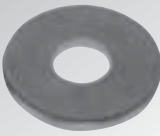
Blind Rivets and Blind Rivet Nuts



Hose Clamps



DIN and Standard Parts Stainless Steel A2, A4

Hex Head Bolts DIN 931  Page 6/700	Hex Head Bolts DIN 933  Page 6/708	Hex Socket Cap Screws DIN 912  Page 6/716	Safety Bolts  Page 6/720	Hex Socket Countersunk Screws DIN 7991  Page 6/725
Carriage Bolts DIN 603  Page 6/728	Threaded Rods  Page 6/729	Flat Head Bolts DIN 7985  Page 6/732	Countersunk Head Screws DIN 965  Page 6/733	Raised Countersunk Head Screws DIN 966  Page 6/736
Slotted Cheese Head Machine Screws DIN 84  Page 6/737	Slotted Countersunk Head Machine Screws DIN 963  Page 6/740	Sheet Metal Screws DIN 7981  Page 6/741	Sheet Metal Screws with Countersunk Head DIN 7982  Page 6/744	Sheet Metal Screws DIN 7983  Page 6/745
Hex Head Sheet Metal Screws DIN 7976  Page 6/748	Dome Head Self-Tapping Screws DIN 7504  Page 6/748	Hex Nuts DIN 934  Page 6/749	Hex Nuts Similar to DIN 6923 with Flange  Page 6/752	Hex Nylock Nuts DIN 985  Page 6/752
Hex Lock Nuts DIN 980  Page 6/753	Hex Cap Nuts DIN 1587  Page 6/753	Wings Nuts DIN 315  Seite 6/753	Breakaway Nuts  Page 6/756	Square Nuts DIN 557  Page 6/756
Spacer Sleeves  Page 6/756	Washers DIN 125  Page 6/757	Spring Lock Washers DIN 127  Page 6/760	Washers DIN 9021  Page 6/761	Serrated Washers DIN 6798  Page 6/765
Schnorr Lock Washers  Page 6/765				

Hexagon Head Bolt DIN 931 8.8, Plain Steel

- In compliance with ISO 4014
- With shank
- Strength class 8.8
- Plain Steel



Item no.	Dimension	QTY
1000 4 30	M 4 x 30	500
1000 4 35	M 4 x 35	500
1000 4 40	M 4 x 40	500
1000 4 45	M 4 x 45	500
1000 4 50	M 4 x 50	500
1000 5 30	M 5 x 30	500
1000 5 35	M 5 x 35	200
1000 5 40	M 5 x 40	200
1000 5 45	M 5 x 45	200
1000 5 50	M 5 x 50	200
1000 5 55	M 5 x 55	200
1000 5 60	M 5 x 60	200
1000 5 70	M 5 x 70	200
1000 5 80	M 5 x 80	200
1000 6 30	M 6 x 30	200
1000 6 35	M 6 x 35	200
1000 6 40	M 6 x 40	200
1000 6 45	M 6 x 45	200
1000 6 50	M 6 x 50	200
1000 6 55	M 6 x 55	200
1000 6 60	M 6 x 60	200
1000 6 65	M 6 x 65	200
1000 6 70	M 6 x 70	200
1000 6 75	M 6 x 75	200
1000 6 80	M 6 x 80	200
1000 6 85	M 6 x 85	100
1000 6 90	M 6 x 90	100
1000 6 100	M 6 x 100	100
1000 6 110	M 6 x 110	100
1000 6 120	M 6 x 120	100
1000 6 130	M 6 x 130	100
1000 6 140	M 6 x 140	100
1000 6 145	M 6 x 145	100
1000 6 150	M 6 x 150	100
1000 6 160	M 6 x 160	100
1000 6 180	M 6 x 180	100
1000 6 200	M 6 x 200	100
1000 8 35	M 8 x 35	200
1000 8 40	M 8 x 40	200
1000 8 45	M 8 x 45	200
1000 8 50	M 8 x 50	200
1000 8 55	M 8 x 55	200
1000 8 60	M 8 x 60	200
1000 8 65	M 8 x 65	200
1000 8 70	M 8 x 70	200
1000 8 75	M 8 x 75	200
1000 8 80	M 8 x 80	100
1000 8 85	M 8 x 85	100
1000 8 90	M 8 x 90	100
1000 8 95	M 8 x 95	100
1000 8 100	M 8 x 100	100
1000 8 110	M 8 x 110	100
1000 8 120	M 8 x 120	100
1000 8 130	M 8 x 130	100
1000 8 140	M 8 x 140	50
1000 8 150	M 8 x 150	50
1000 8 160	M 8 x 160	50
1000 8 180	M 8 x 180	50
1000 8 200	M 8 x 200	50
1000 8 240	M 8 x 240	50
1000 10 40	M 10 x 40	100
1000 10 45	M 10 x 45	100
1000 10 50	M 10 x 50	100
1000 10 55	M 10 x 55	100
1000 10 60	M 10 x 60	100
1000 10 65	M 10 x 65	100
1000 10 70	M 10 x 70	100
1000 10 75	M 10 x 75	100
1000 10 80	M 10 x 80	100

(d thread dia. x Length mm)

Item no.	Dimension	QTY
1000 10 85	M 10 x 85	100
1000 10 90	M 10 x 90	100
1000 10 95	M 10 x 95	100
1000 10 100	M 10 x 100	50
1000 10 110	M 10 x 110	50
1000 10 120	M 10 x 120	50
1000 10 130	M 10 x 130	50
1000 10 140	M 10 x 140	50
1000 10 150	M 10 x 150	50
1000 10 160	M 10 x 160	50
1000 10 170	M 10 x 170	50
1000 10 180	M 10 x 180	50
1000 10 200	M 10 x 200	50
1000 10 240	M 10 x 240	50
1000 12 45	M 12 x 45	50
1000 12 50	M 12 x 50	100
1000 12 55	M 12 x 55	50
1000 12 60	M 12 x 60	50
1000 12 65	M 12 x 65	50
1000 12 70	M 12 x 70	50
1000 12 75	M 12 x 75	50
1000 12 80	M 12 x 80	50
1000 12 85	M 12 x 85	50
1000 12 90	M 12 x 90	50
1000 12 95	M 12 x 95	50
1000 12 100	M 12 x 100	50
1000 12 110	M 12 x 110	50
1000 12 120	M 12 x 120	50
1000 12 130	M 12 x 130	50
1000 12 140	M 12 x 140	50
1000 12 150	M 12 x 150	25
1000 12 160	M 12 x 160	25
1000 12 180	M 12 x 180	25
1000 14 50	M 14 x 50	50
1000 14 55	M 14 x 55	50
1000 14 60	M 14 x 60	50
1000 14 65	M 14 x 65	50
1000 14 70	M 14 x 70	50
1000 14 75	M 14 x 75	50
1000 14 80	M 14 x 80	50
1000 14 90	M 14 x 90	50
1000 14 100	M 14 x 100	50
1000 14 110	M 14 x 110	25
1000 14 120	M 14 x 120	25
1000 14 130	M 14 x 130	25
1000 14 140	M 14 x 140	25
1000 14 150	M 14 x 150	25
1000 14 160	M 14 x 160	25
1000 14 180	M 14 x 180	25
1000 16 55	M 16 x 55	50
1000 16 60	M 16 x 60	25
1000 16 65	M 16 x 65	25
1000 16 70	M 16 x 70	25
1000 16 75	M 16 x 75	25
1000 16 80	M 16 x 80	25
1000 16 85	M 16 x 85	25
1000 16 90	M 16 x 90	25
1000 16 100	M 16 x 100	25
1000 16 110	M 16 x 110	25
1000 16 120	M 16 x 120	25
1000 16 130	M 16 x 130	25
1000 16 140	M 16 x 140	25
1000 16 150	M 16 x 150	10
1000 16 160	M 16 x 160	10
1000 16 170	M 16 x 170	10
1000 16 180	M 16 x 180	10
1000 16 200	M 16 x 200	10
1000 16 220	M 16 x 220	10
1000 16 240	M 16 x 240	10

Specifications

Thread		Head size	k	b	b	b
Dia.			L < 125	L 125 - 200	L > 200	
mm	mm	mm	mm	mm	mm	
M 4	7	2.8	14	-	-	
M 5	8	3.5	16	22	-	
M 6	10	4	18	24	-	
M 8	13	5.3	22	28	41	
M 10	17	6.4	26	32	45	
M 12	18	7.5	30	36	49	
M 14	22	8.8	34	40	53	
M 16	24	10	38	44	57	
M 18	27	11.5	42	48	61	
M 20	30	12.5	46	52	65	
M 24	36	15	54	60	73	
M 30	46	18.7	66	72	85	

Item no.	Dimension	QTY
1000 16 260	M 16 x 260	10
1000 16 280	M 16 x 280	10
1000 16 290	M 16 x 290	10
1000 16 300	M 16 x 300	10
1000 16 320	M 16 x 320	10
1000 18 60	M 18 x 60	25
1000 18 65	M 18 x 65	25
1000 18 70	M 18 x 70	25
1000 18 75	M 18 x 75	25
1000 18 80	M 18 x 80	25
1000 18 90	M 18 x 90	25
1000 18 100	M 18 x 100	25
1000 18 110	M 18 x 110	25
1000 18 120	M 18 x 120	25
1000 18 130	M 18 x 130	25
1000 18 140	M 18 x 140	25
1000 18 150	M 18 x 150	25
1000 18 160	M 18 x 160	25
1000 18 170	M 18 x 170	25
1000 18 180	M 18 x 180	25
1000 20 65	M 20 x 65	25
1000 20 70	M 20 x 70	25
1000 20 75	M 20 x 75	25
1000 20 80	M 20 x 80	10
1000 20 90	M 20 x 90	10
1000 20 100	M 20 x 100	10
1000 20 110	M 20 x 110	10
1000 20 120	M 20 x 120	10
1000 20 130	M 20 x 130	10
1000 20 140	M 20 x 140	10
1000 20 150	M 20 x 150	10
1000 20 160	M 20 x 160	10
1000 20 170	M 20 x 170	10
1000 20 180	M 20 x 180	10
1000 20 190	M 20 x 190	10
1000 20 200	M 20 x 200	10
1000 20 220	M 20 x 220	10
1000 20 240	M 20 x 240	10
1000 20 260	M 20 x 260	10
1000 20 280	M 20 x 280	10
1000 20 300	M 20 x 300	10
1000 20 320	M 20 x 320	10
1000 20 340	M 20 x 340	10
1000 20 360	M 20 x 360	10
1000 20 380	M 20 x 380	10

Continued on next page

Hexagon Head Bolt DIN 931 8.8, Plain Steel

- In compliance with ISO 4014
- With shank
- Strength class 8.8
- Plain Steel

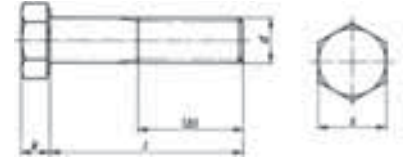


Item no.	Dimension	QTY
1000 24 75	M 24 x 75	10
1000 24 80	M 24 x 80	10
1000 24 90	M 24 x 90	10
1000 24 100	M 24 x 100	10
1000 24 110	M 24 x 110	10
1000 24 120	M 24 x 120	10
1000 24 130	M 24 x 130	10
1000 24 140	M 24 x 140	10
1000 24 150	M 24 x 150	10
1000 24 160	M 24 x 160	10
1000 24 180	M 24 x 180	10
1000 24 200	M 24 x 200	10
1000 24 220	M 24 x 220	10
1000 24 240	M 24 x 240	10
1000 24 260	M 24 x 260	10
1000 24 280	M 24 x 280	10
1000 24 300	M 24 x 300	10
1000 24 360	M 24 x 360	10
1000 24 400	M 24 x 400	10
1000 24 420	M 24 x 420	5
1000 24 440	M 24 x 440	5
1000 24 460	M 24 x 460	5
1000 24 480	M 24 x 480	5
1000 30 80	M 30 x 80	10
1000 30 90	M 30 x 90	10
1000 30 100	M 30 x 100	10
1000 30 110	M 30 x 110	10
1000 30 120	M 30 x 120	10

(d thread dia. x Length mm)

Item no.	Dimension	QTY
1000 30 130	M 30 x 130	10
1000 30 140	M 30 x 140	10
1000 30 150	M 30 x 150	10
1000 30 160	M 30 x 160	10
1000 30 170	M 30 x 170	10
1000 30 180	M 30 x 180	10
1000 30 200	M 30 x 200	10
1000 30 220	M 30 x 220	5
1000 30 240	M 30 x 240	5
1000 30 260	M 30 x 260	5
1000 30 280	M 30 x 280	5
1000 30 300	M 30 x 300	5
1000 30 360	M 30 x 360	5
1000 36 100	M 36 x 100	10
1000 36 110	M 36 x 110	10
1000 36 120	M 36 x 120	10
1000 36 130	M 36 x 130	10
1000 36 140	M 36 x 140	5
1000 36 150	M 36 x 150	5
1000 36 160	M 36 x 160	5
1000 36 180	M 36 x 180	5
1000 36 200	M 36 x 200	5
1000 36 220	M 36 x 220	5
1000 36 240	M 36 x 240	5
1000 36 260	M 36 x 260	5
1000 36 280	M 36 x 280	5
1000 36 300	M 36 x 300	5
1000 36 320	M 36 x 320	5

Specifications



Thread	Head size	k	b	b	b
Dia.			L < 125	L 125 - 200	L > 200
mm	mm	mm	mm	mm	mm
M 4	7	2.8	14	-	-
M 5	8	3.5	16	22	-
M 6	10	4	18	24	-
M 8	13	5.3	22	28	41
M 10	17	6.4	26	32	45
M 12	18	7.5	30	36	49
M 14	22	8.8	34	40	53
M 16	24	10	38	44	57
M 18	27	11.5	42	48	61
M 20	30	12.5	46	52	65
M 24	36	15	54	60	73
M 30	46	18.7	66	72	85

Hex Head Bolt DIN 931 8.8, Zinc

- In compliance with ISO 4014
- With shank
- Strength class 8.8
- Plain Steel

Item no.	Dimension	QTY
1001 4 30	M 4 x 30	500
1001 4 40	M 4 x 40	500
1001 4 50	M 4 x 50	500
1001 4 55	M 4 x 55	HW
1001 4 60	M 4 x 60	500
1001 4 70	M 4 x 70	100
1001 4 80	M 4 x 80	100
1001 5 30	M 5 x 30	500
1001 5 35	M 5 x 35	500
1001 5 40	M 5 x 40	200
1001 5 45	M 5 x 45	200
1001 5 50	M 5 x 50	200
1001 5 55	M 5 x 55	200
1001 5 60	M 5 x 60	200
1001 5 65	M 5 x 65	200
1001 5 70	M 5 x 70	200
1001 5 80	M 5 x 80	200
1001 5 90	M 5 x 90	200
1001 5 100	M 5 x 100	200
1001 6 30	M 6 x 30	200
1001 6 35	M 6 x 35	200
1001 6 40	M 6 x 40	200
1001 6 45	M 6 x 45	200
1001 6 50	M 6 x 50	200
1001 6 55	M 6 x 55	200
1001 6 60	M 6 x 60	200
1001 6 65	M 6 x 65	200
1001 6 70	M 6 x 70	200
1001 6 75	M 6 x 75	200
1001 6 80	M 6 x 80	200
1001 6 85	M 6 x 85	200
1001 6 90	M 6 x 90	100
1001 6 100	M 6 x 100	100
1001 6 110	M 6 x 110	100
1001 6 120	M 6 x 120	100
1001 6 130	M 6 x 130	100
1001 6 140	M 6 x 140	100
1001 6 150	M 6 x 150	100
1001 6 160	M 6 x 160	100
1001 6 180	M 6 x 180	100
1001 6 200	M 6 x 200	100
1001 8 35	M 8 x 35	100
1001 8 40	M 8 x 40	200
1001 8 45	M 8 x 45	200
1001 8 50	M 8 x 50	200
1001 8 55	M 8 x 55	200
1001 8 60	M 8 x 60	200
1001 8 65	M 8 x 65	200
1001 8 70	M 8 x 70	200
1001 8 75	M 8 x 75	100
1001 8 80	M 8 x 80	100
1001 8 85	M 8 x 85	100
1001 8 90	M 8 x 90	100
1001 8 95	M 8 x 95	100
1001 8 100	M 8 x 100	100
1001 8 110	M 8 x 110	100
1001 8 120	M 8 x 120	100
1001 8 130	M 8 x 130	100
1001 8 140	M 8 x 140	100
1001 8 150	M 8 x 150	50
1001 8 160	M 8 x 160	50
1001 8 170	M 8 x 170	50
1001 8 180	M 8 x 180	50
1001 8 200	M 8 x 200	50
1001 10 40	M 10 x 40	50
1001 10 45	M 10 x 45	100
1001 10 50	M 10 x 50	100
1001 10 55	M 10 x 55	100
1001 10 60	M 10 x 60	100

(d thread dia. x length mm)

Item no.	Dimension	QTY
1001 10 65	M 10 x 65	100
1001 10 70	M 10 x 70	100
1001 10 75	M 10 x 75	100
1001 10 80	M 10 x 80	50
1001 10 85	M 10 x 85	100
1001 10 90	M 10 x 90	100
1001 10 95	M 10 x 95	50
1001 10 100	M 10 x 100	50
1001 10 110	M 10 x 110	50
1001 10 120	M 10 x 120	50
1001 10 130	M 10 x 130	50
1001 10 140	M 10 x 140	50
1001 10 150	M 10 x 150	50
1001 10 160	M 10 x 160	50
1001 10 170	M 10 x 170	50
1001 10 180	M 10 x 180	50
1001 10 190	M 10 x 190	50
1001 10 200	M 10 x 200	10
1001 10 220	M 10 x 220	25
1001 10 240	M 10 x 240	25
1001 12 45	M 12 x 45	25
1001 12 50	M 12 x 50	100
1001 12 55	M 12 x 55	100
1001 12 60	M 12 x 60	50
1001 12 65	M 12 x 65	50
1001 12 70	M 12 x 70	50
1001 12 75	M 12 x 75	50
1001 12 80	M 12 x 80	50
1001 12 85	M 12 x 85	50
1001 12 90	M 12 x 90	50
1001 12 95	M 12 x 95	50
1001 12 100	M 12 x 100	50
1001 12 110	M 12 x 110	50
1001 12 120	M 12 x 120	50
1001 12 130	M 12 x 130	g 50
1001 12 140	M 12 x 140	25
1001 12 150	M 12 x 150	25
1001 12 160	M 12 x 160	25
1001 12 170	M 12 x 170	25
1001 12 180	M 12 x 180	25
1001 12 200	M 12 x 200	25
1001 12 220	M 12 x 220	25
1001 12 240	M 12 x 240	25
1001 14 50	M 14 x 50	25
1001 14 55	M 14 x 55	50
1001 14 60	M 14 x 60	50
1001 14 65	M 14 x 65	50
1001 14 70	M 14 x 70	50
1001 14 75	M 14 x 75	50
1001 14 80	M 14 x 80	50
1001 14 90	M 14 x 90	50
1001 14 100	M 14 x 100	25
1001 14 110	M 14 x 110	25
1001 14 120	M 14 x 120	25
1001 14 130	M 14 x 130	25
1001 14 140	M 14 x 140	25
1001 14 150	M 14 x 150	25
1001 14 160	M 14 x 160	25
1001 14 170	M 14 x 170	25
1001 14 180	M 14 x 180	25
1001 14 200	M 14 x 200	25
1001 14 220	M 14 x 220	5
1001 14 240	M 14 x 240	5
1001 16 50	M 16 x 50	5
1001 16 55	M 16 x 55	50
1001 16 60	M 16 x 60	50
1001 16 65	M 16 x 65	25
1001 16 70	M 16 x 70	25
1001 16 75	M 16 x 75	25

Specifications						
						
Thread	Head	k	b	b	b	
Dia. size	size		L < 125	L 125 - 200	L > 200	
mm	mm	mm	mm	mm	mm	
M 4	7	2.8	14	-	-	
M 5	8	3.5	16	22	-	
M 6	10	4.0	18	24	-	
M 8	13	5.3	22	28	41	
M 10	17	6.4	26	32	45	
M 12	18	7.5	30	36	49	
M 14	22	8.8	34	40	53	
M 16	24	10.0	38	44	57	
M 18	27	11.5	42	48	61	
M 20	30	12.5	46	52	65	
M 24	36	15.0	54	60	73	
M 30	46	18.7	66	72	85	

Item no.	Dimension	QTY
1001 16 80	M 16 x 80	25
1001 16 85	M 16 x 85	25
1001 16 90	M 16 x 90	25
1001 16 100	M 16 x 100	25
1001 16 110	M 16 x 110	25
1001 16 120	M 16 x 120	25
1001 16 130	M 16 x 130	25
1001 16 140	M 16 x 140	25
1001 16 150	M 16 x 150	25
1001 16 160	M 16 x 160	10
1001 16 170	M 16 x 170	10
1001 16 180	M 16 x 180	25
1001 16 200	M 16 x 200	5
1001 16 220	M 16 x 220	5
1001 16 240	M 16 x 240	5
1001 16 260	M 16 x 260	5
1001 16 280	M 16 x 280	5
1001 16 300	M 16 x 300	5
1001 16 320	M 16 x 320	5
1001 18 60	M 18 x 60	10
1001 18 65	M 18 x 65	25
1001 18 70	M 18 x 70	25
1001 18 75	M 18 x 75	25
1001 18 80	M 18 x 80	25
1001 18 90	M 18 x 90	25
1001 18 100	M 18 x 100	25
1001 18 110	M 18 x 110	25
1001 18 120	M 18 x 120	5
1001 18 130	M 18 x 130	5
1001 18 140	M 18 x 140	5
1001 18 150	M 18 x 150	5
1001 18 160	M 18 x 160	5
1001 18 170	M 18 x 170	5
1001 18 180	M 18 x 180	5
1001 18 200	M 18 x 200	5
1001 20 65	M 20 x 65	5
1001 20 70	M 20 x 70	25
1001 20 75	M 20 x 75	25
1001 20 80	M 20 x 80	25
1001 20 85	M 20 x 85	25
1001 20 90	M 20 x 90	25
1001 20 100	M 20 x 100	25
1001 20 110	M 20 x 110	25
1001 20 120	M 20 x 120	5
1001 20 130	M 20 x 130	5

Continued on next page

Hex Head Bolt DIN 931 8.8, Zinc

- In compliance with ISO 4014
- With shank
- Strength class 8.8
- Plain Steel

Item no.	Dimension	QTY
1001 20 140	M 20 x 140	5
1001 20 150	M 20 x 150	10
1001 20 160	M 20 x 160	10
1001 20 170	M 20 x 170	10
1001 20 180	M 20 x 180	5
1001 20 190	M 20 x 190	10
1001 20 200	M 20 x 200	10
1001 20 210	M 20 x 210	10
1001 20 220	M 20 x 220	5
1001 20 230	M 20 x 230	5
1001 20 240	M 20 x 240	10
1001 20 260	M 20 x 260	5
1001 20 280	M 20 x 280	5
1001 20 300	M 20 x 300	5
1001 20 320	M 20 x 320	5
1001 20 360	M 20 x 360	5
1001 20 380	M 20 x 380	5
1001 24 75	M 24 x 75	5
1001 24 80	M 24 x 80	10
1001 24 85	M 24 x 85	10
1001 24 90	M 24 x 90	10
1001 24 100	M 24 x 100	10
1001 24 110	M 24 x 110	10
1001 24 120	M 24 x 120	10
1001 24 130	M 24 x 130	10

(d thread dia. x length mm)

Item no.	Dimension	QTY
1001 24 140	M 24 x 140	10
1001 24 150	M 24 x 150	10
1001 24 160	M 24 x 160	5
1001 24 180	M 24 x 180	5
1001 24 200	M 24 x 200	5
1001 24 220	M 24 x 220	5
1001 24 240	M 24 x 240	5
1001 24 260	M 24 x 260	5
1001 24 280	M 24 x 280	5
1001 24 300	M 24 x 300	5
1001 24 320	M 24 x 320	5
1001 24 400	M 24 x 400	5
1001 24 420	M 24 x 420	5
1001 24 440	M 24 x 440	5
1001 24 460	M 24 x 460	5
1001 24 480	M 24 x 480	5
1001 30 90	M 30 x 90	5
1001 30 100	M 30 x 100	5
1001 30 110	M 30 x 110	5
1001 30 120	M 30 x 120	5
1001 30 130	M 30 x 130	5
1001 30 140	M 30 x 140	5
1001 30 150	M 30 x 150	5
1001 30 160	M 30 x 160	5
1001 30 190	M 30 x 190	5
1001 30 200	M 30 x 200	5



Specifications

Thread	Head	k	b	b	b
Dia. size	size	L < 125	L 125 - 200	L > 200	
mm	mm	mm	mm	mm	mm
M 4	7	2.8	14	-	-
M 5	8	3.5	16	22	-
M 6	10	4.0	18	24	-
M 8	13	5.3	22	28	41
M 10	17	6.4	26	32	45
M 12	18	7.5	30	36	49
M 14	22	8.8	34	40	53
M 16	24	10.0	38	44	57
M 18	27	11.5	42	48	61
M 20	30	12.5	46	52	65
M 24	36	15.0	54	60	73
M 30	46	18.7	66	72	85

Hex Head Bolt DIN 931 10.9, Plain Steel

- In compliance with ISO 4014
- With shank
- Strength class 10.9
- Plain Steel

Item no.	Dimension	QTY
1003 8 35	M 8 x 35	200
1003 8 40	M 8 x 40	200
1003 8 45	M 8 x 45	200
1003 8 50	M 8 x 50	200
1003 8 55	M 8 x 55	200
1003 8 60	M 8 x 60	200
1003 8 65	M 8 x 65	100
1003 8 70	M 8 x 70	100
1003 8 75	M 8 x 75	100
1003 8 80	M 8 x 80	100
1003 8 90	M 8 x 90	100
1003 8 100	M 8 x 100	100
1003 8 110	M 8 x 110	100
1003 8 120	M 8 x 120	100
1003 8 130	M 8 x 130	100
1003 8 140	M 8 x 140	100
1003 8 150	M 8 x 150	100
1003 10 40	M 10 x 40	100
1003 10 45	M 10 x 45	100
1003 10 50	M 10 x 50	100
1003 10 55	M 10 x 55	100
1003 10 60	M 10 x 60	100
1003 10 65	M 10 x 65	100
1003 10 70	M 10 x 70	100
1003 10 75	M 10 x 75	100
1003 10 80	M 10 x 80	100
1003 10 90	M 10 x 90	50
1003 10 100	M 10 x 100	50
1003 10 110	M 10 x 110	50
1003 10 120	M 10 x 120	50
1003 10 130	M 10 x 130	50
1003 10 140	M 10 x 140	50
1003 10 150	M 10 x 150	50
1003 12 40	M 12 x 40	100

(d thread dia. x Length mm)

Item no.	Dimension	QTY
1003 12 45	M 12 x 45	100
1003 12 50	M 12 x 50	100
1003 12 55	M 12 x 55	50
1003 12 60	M 12 x 60	50
1003 12 65	M 12 x 65	50
1003 12 70	M 12 x 70	50
1003 12 75	M 12 x 75	50
1003 12 80	M 12 x 80	50
1003 12 85	M 12 x 85	50
1003 12 90	M 12 x 90	50
1003 12 100	M 12 x 100	50
1003 12 110	M 12 x 110	50
1003 12 120	M 12 x 120	50
1003 12 130	M 12 x 130	25
1003 12 140	M 12 x 140	25
1003 12 150	M 12 x 150	25
1003 12 210	M 12 x 210	25
1003 14 50	M 14 x 50	50
1003 14 60	M 14 x 60	50
1003 14 70	M 14 x 70	50
1003 14 80	M 14 x 80	50
1003 14 100	M 14 x 100	25
1003 14 140	M 14 x 140	25
1003 16 55	M 16 x 55	50
1003 16 60	M 16 x 60	50
1003 16 65	M 16 x 65	25
1003 16 70	M 16 x 70	25
1003 16 75	M 16 x 75	25
1003 16 80	M 16 x 80	25
1003 16 85	M 16 x 85	25
1003 16 90	M 16 x 90	25
1003 16 100	M 16 x 100	25
1003 16 110	M 16 x 110	25
1003 16 120	M 16 x 120	25



Specifications

Thread	Head	k	b	b	b
Dia. size	size	L < 125	L 125 - 200	L > 200	
mm	mm	mm	mm	mm	mm
M 6	10	4.0	18	24	-
M 8	13	5.3	22	28	-
M 10	17	6.4	26	32	-
M 12	18	7.5	30	36	-
M 14	22	8.8	34	40	-
M 16	24	10.0	38	44	-
M 20	30	12.5	46	52	-
M 24	36	15.0	54	60	73
M 27	46	18.7	66	72	79

Item no.	Dimension	QTY
1003 16 130	M 16 x 130	25
1003 16 140	M 16 x 140	5
1003 16 150	M 16 x 150	5
1003 20 65	M 20 x 65	25
1003 20 70	M 20 x 70	25
1003 20 75	M 20 x 75	25
1003 20 80	M 20 x 80	5
1003 20 85	M 20 x 85	5
1003 20 90	M 20 x 90	5
1003 20 100	M 20 x 100	5
1003 20 110	M 20 x 110	5
1003 20 120	M 20 x 120	5
1003 20 130	M 20 x 130	5
1003 20 140	M 20 x 140	5
1003 20 150	M 20 x 150	5
1003 20 190	M 20 x 190	5
1003 24 140	M 24 x 140	10
1003 24 220	M 24 x 220	5
1003 27 110	M 27 x 110	5
1003 27 280	M 27 x 280	5

Hex Head Bolts DIN 933 8.8, Plain Steel

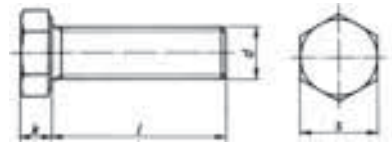
- In compliance with ISO 4017
- With thread up to head
- Strength class 8.8
- Plain Steel



Item no.	Dimension	QTY
1010 4 6	M 4 x 6	500
1010 4 10	M 4 x 10	500
1010 4 12	M 4 x 12	500
1010 4 16	M 4 x 16	500
1010 4 20	M 4 x 20	500
1010 4 25	M 4 x 25	500
1010 4 30	M 4 x 30	500
1010 4 35	M 4 x 35	500
1010 4 45	M 4 x 45	500
1010 4 50	M 4 x 50	500
1010 5 8	M 5 x 8	500
1010 5 10	M 5 x 10	500
1010 5 12	M 5 x 12	500
1010 5 16	M 5 x 16	500
1010 5 18	M 5 x 18	500
1010 5 20	M 5 x 20	500
1010 5 22	M 5 x 22	500
1010 5 25	M 5 x 25	500
1010 5 30	M 5 x 30	500
1010 5 35	M 5 x 35	200
1010 5 40	M 5 x 40	200
1010 5 45	M 5 x 45	200
1010 5 50	M 5 x 50	200
1010 5 55	M 5 x 55	100
1010 5 60	M 5 x 60	200
1010 5 65	M 5 x 65	100
1010 5 70	M 5 x 70	200
1010 5 80	M 5 x 80	200
1010 5 90	M 5 x 90	100
1010 6 8	M 6 x 8	500
1010 6 10	M 6 x 10	500
1010 6 12	M 6 x 12	500
1010 6 16	M 6 x 16	200
1010 6 18	M 6 x 18	200
1010 6 20	M 6 x 20	200
1010 6 22	M 6 x 22	200
1010 6 25	M 6 x 25	200
1010 6 30	M 6 x 30	200
1010 6 35	M 6 x 35	200
1010 6 40	M 6 x 40	200
1010 6 45	M 6 x 45	200
1010 6 50	M 6 x 50	200
1010 6 55	M 6 x 55	200
1010 6 60	M 6 x 60	200
1010 6 65	M 6 x 65	200
1010 6 70	M 6 x 70	200
1010 6 75	M 6 x 75	200
1010 6 80	M 6 x 80	200
1010 6 90	M 6 x 90	200
1010 6 100	M 6 x 100	200
1010 6 110	M 6 x 110	200
1010 6 120	M 6 x 120	200
1010 6 130	M 6 x 130	200
1010 8 10	M 8 x 10	200
1010 8 12	M 8 x 12	200
1010 8 16	M 8 x 16	200
1010 8 18	M 8 x 18	200
1010 8 20	M 8 x 20	200
1010 8 22	M 8 x 22	200
1010 8 25	M 8 x 25	200
1010 8 30	M 8 x 30	200
1010 8 35	M 8 x 35	200
1010 8 40	M 8 x 40	200
1010 8 45	M 8 x 45	200
1010 8 50	M 8 x 50	200
1010 8 55	M 8 x 55	200
1010 8 60	M 8 x 60	200
1010 8 65	M 8 x 65	200
1010 8 70	M 8 x 70	200

Item no.	Dimension	QTY
1010 8 75	M 8 x 75	200
1010 8 80	M 8 x 80	200
1010 8 90	M 8 x 90	100
1010 8 100	M 8 x 100	100
1010 8 110	M 8 x 110	100
1010 8 120	M 8 x 120	100
1010 8 130	M 8 x 130	100
1010 10 10	M 10 x 10	200
1010 10 12	M 10 x 12	200
1010 10 16	M 10 x 16	200
1010 10 18	M 10 x 18	200
1010 10 20	M 10 x 20	200
1010 10 25	M 10 x 25	200
1010 10 30	M 10 x 30	200
1010 10 35	M 10 x 35	100
1010 10 40	M 10 x 40	100
1010 10 45	M 10 x 45	100
1010 10 50	M 10 x 50	100
1010 10 55	M 10 x 55	100
1010 10 60	M 10 x 60	100
1010 10 65	M 10 x 65	100
1010 10 70	M 10 x 70	100
1010 10 75	M 10 x 75	100
1010 10 80	M 10 x 80	100
1010 10 90	M 10 x 90	100
1010 10 100	M 10 x 100	100
1010 10 110	M 10 x 110	50
1010 10 120	M 10 x 120	50
1010 10 130	M 10 x 130	50
1010 12 16	M 12 x 16	100
1010 12 20	M 12 x 20	100
1010 12 25	M 12 x 25	100
1010 12 30	M 12 x 30	100
1010 12 35	M 12 x 35	100
1010 12 40	M 12 x 40	100
1010 12 45	M 12 x 45	100
1010 12 50	M 12 x 50	100
1010 12 55	M 12 x 55	100
1010 12 60	M 12 x 60	100
1010 12 65	M 12 x 65	50
1010 12 70	M 12 x 70	50
1010 12 75	M 12 x 75	50
1010 12 80	M 12 x 80	50
1010 12 90	M 12 x 90	50
1010 12 100	M 12 x 100	50
1010 12 110	M 12 x 110	50
1010 12 120	M 12 x 120	50
1010 12 130	M 12 x 130	50
1010 14 20	M 14 x 20	100
1010 14 25	M 14 x 25	100
1010 14 30	M 14 x 30	100
1010 14 35	M 14 x 35	100
1010 14 40	M 14 x 40	100
1010 14 45	M 14 x 45	50
1010 14 50	M 14 x 50	50
1010 14 55	M 14 x 55	50
1010 14 60	M 14 x 60	50
1010 14 65	M 14 x 65	50
1010 14 70	M 14 x 70	50
1010 14 80	M 14 x 80	50
1010 14 90	M 14 x 90	50
1010 14 100	M 14 x 100	50
1010 14 110	M 14 x 110	25
1010 16 20	M 16 x 20	50
1010 16 25	M 16 x 25	50
1010 16 30	M 16 x 30	50
1010 16 35	M 16 x 35	50
1010 16 40	M 16 x 40	50
1010 16 45	M 16 x 45	50

Specifications



Thread Dia.	Head size	k
mm	mm	mm
M 4	7	2.8
M 5	8	3.5
M 6	10	4.0
M 8	13	5.3
M 10	17	6.4
M 12	18	7.5
M 14	22	8.8
M 16	24	10.0
M 18	27	11.5
M 20	30	12.5
M 22	32	14.0
M 24	36	15.0

Item no.	Dimension	QTY
1010 16 50	M 16 x 50	50
1010 16 55	M 16 x 55	50
1010 16 60	M 16 x 60	50
1010 16 65	M 16 x 65	25
1010 16 70	M 16 x 70	25
1010 16 75	M 16 x 75	25
1010 16 80	M 16 x 80	25
1010 16 85	M 16 x 85	25
1010 16 90	M 16 x 90	25
1010 16 100	M 16 x 100	25
1010 16 110	M 16 x 110	25
1010 16 120	M 16 x 120	25
1010 16 130	M 16 x 130	25
1010 16 140	M 16 x 140	25
1010 16 150	M 16 x 150	25
1010 16 160	M 16 x 160	25
1010 18 30	M 18 x 30	50
1010 18 35	M 18 x 35	50
1010 18 40	M 18 x 40	50
1010 18 45	M 18 x 45	50
1010 18 50	M 18 x 50	50
1010 18 55	M 18 x 55	25
1010 18 60	M 18 x 60	25
1010 18 65	M 18 x 65	25
1010 18 70	M 18 x 70	25
1010 18 80	M 18 x 80	25
1010 18 90	M 18 x 90	25
1010 20 30	M 20 x 30	25
1010 20 35	M 20 x 35	25
1010 20 40	M 20 x 40	25
1010 20 45	M 20 x 45	25
1010 20 50	M 20 x 50	25
1010 20 55	M 20 x 55	25
1010 20 60	M 20 x 60	25
1010 20 65	M 20 x 65	25
1010 20 70	M 20 x 70	25
1010 20 75	M 20 x 75	25
1010 20 80	M 20 x 80	25
1010 20 90	M 20 x 90	25
1010 20 100	M 20 x 100	25
1010 20 110	M 20 x 110	25
1010 20 120	M 20 x 120	25
1010 20 130	M 20 x 130	25
1010 20 140	M 20 x 140	25
1010 20 150	M 20 x 150	25

Continued on next page

Hex Head Bolts DIN 933 8.8, Plain Steel

- In compliance with ISO 4017
- With thread up to head
- Strength class 8.8
- Plain Steel

Item no.	Dimension	QTY
1010 20 160	M 20 x 160	25
1010 22 40	M 22 x 40	25
1010 22 45	M 22 x 45	25
1010 22 50	M 22 x 50	25
1010 22 55	M 22 x 55	25
1010 22 60	M 22 x 60	25
1010 22 65	M 22 x 65	25
1010 22 70	M 22 x 70	25
1010 22 80	M 22 x 80	25
1010 24 30	M 24 x 30	25
1010 24 40	M 24 x 40	25
1010 24 45	M 24 x 45	25
1010 24 50	M 24 x 50	25
1010 24 55	M 24 x 55	25
1010 24 60	M 24 x 60	25
1010 24 65	M 24 x 65	25
1010 24 70	M 24 x 70	25
1010 24 75	M 24 x 75	25
1010 24 80	M 24 x 80	25
1010 24 90	M 24 x 90	10
1010 24 100	M 24 x 100	10
1010 24 110	M 24 x 110	10
1010 24 120	M 24 x 120	10
1010 24 130	M 24 x 130	10
1010 24 140	M 24 x 140	10
1010 24 150	M 24 x 150	10
1010 24 160	M 24 x 160	10

(d thread dia. x length mm)



Specifications



Thread	Head size	k
Dia. mm	mm	mm
M 4	7	2.8
M 5	8	3.5
M 6	10	4.0
M 8	13	5.3
M 10	17	6.4
M 12	18	7.5
M 14	22	8.8
M 16	24	10.0
M 18	27	11.5
M 20	30	12.5
M 22	32	14.0
M 24	36	15.0

Hex Head Bolts DIN 933 8.8, Galvanized

- In compliance with ISO 4017
- With thread up to head
- Strength class 8.8
- Galvanized steel

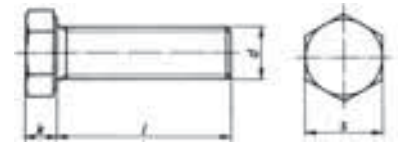


Item no.	Dimension	QTY
1011 3 5	M 3 x 5	200
1011 3 6	M 3 x 6	200
1011 3 8	M 3 x 8	200
1011 3 10	M 3 x 10	200
1011 3 12	M 3 x 12	200
1011 3 14	M 3 x 14	200
1011 3 16	M 3 x 16	200
1011 3 18	M 3 x 18	200
1011 3 20	M 3 x 20	200
1011 3 22	M 3 x 22	100
1011 3 25	M 3 x 25	100
1011 3 30	M 3 x 30	100
1011 3 35	M 3 x 35	100
1011 3 40	M 3 x 40	100
1011 3 50	M 3 x 50	100
1011 4 6	M 4 x 6	500
1011 4 8	M 4 x 8	500
1011 4 10	M 4 x 10	500
1011 4 12	M 4 x 12	W 500
1011 4 16	M 4 x 16	W 500
1011 4 20	M 4 x 20	W 500
1011 4 25	M 4 x 25	W 500
1011 4 30	M 4 x 30	HW 500
1011 4 35	M 4 x 35	HW 500
1011 4 40	M 4 x 40	HW 500
1011 4 45	M 4 x 45	HW 500
1011 4 50	M 4 x 50	HW 500
1011 5 6	M 5 x 6	HW 500
1011 5 8	M 5 x 8	HW 500
1011 5 10	M 5 x 10	HW 500
1011 5 12	M 5 x 12	HW 500
1011 5 16	M 5 x 16	HW 500
1011 5 18	M 5 x 18	HW 500
1011 5 20	M 5 x 20	HW 500
1011 5 25	M 5 x 25	HW 500
1011 5 30	M 5 x 30	HW 500
1011 5 35	M 5 x 35	HW 500
1011 5 40	M 5 x 40	HW 500
1011 5 45	M 5 x 45	HW 500
1011 5 50	M 5 x 50	HW 500
1011 5 60	M 5 x 60	200
1011 5 70	M 5 x 70	200
1011 6 8	M 6 x 8	HW 500
1011 6 10	M 6 x 10	HW 500
1011 6 12	M 6 x 12	HW 500
1011 6 16	M 6 x 16	HW 500
1011 6 18	M 6 x 18	HW 500
1011 6 20	M 6 x 20	HW 500
1011 6 22	M 6 x 22	HW 500
1011 6 25	M 6 x 25	HW 500
1011 6 30	M 6 x 30	H 200
1011 6 35	M 6 x 35	H 200
1011 6 40	M 6 x 40	H 200
1011 6 45	M 6 x 45	H 200
1011 6 50	M 6 x 50	H 200
1011 6 60	M 6 x 60	H 200
1011 6 65	M 6 x 65	H 200
1011 6 70	M 6 x 70	H 200
1011 6 75	M 6 x 75	H 200
1011 6 80	M 6 x 80	H 200
1011 6 90	M 6 x 90	100
1011 6 100	M 6 x 100	100
1011 6 110	M 6 x 110	100
1011 6 120	M 6 x 120	100
1011 7 16	M 7 x 16	200
1011 7 20	M 7 x 20	H 200
1011 7 25	M 7 x 25	H 200
1011 7 30	M 7 x 30	H 200
1011 7 35	M 7 x 35	H 200

(d thread dia. x length mm)

Item no.	Dimension	QTY
1011 7 40	M 7 x 40	H 200
1011 7 45	M 7 x 45	H 200
1011 7 50	M 7 x 50	H 200
1011 8 10	M 8 x 10	HW 500
1011 8 12	M 8 x 12	HW 500
1011 8 14	M 8 x 14	HW 500
1011 8 16	M 8 x 16	HW 500
1011 8 18	M 8 x 18	HW 500
1011 8 20	M 8 x 20	HW 500
1011 8 22	M 8 x 22	HW 500
1011 8 25	M 8 x 25	HW 500
1011 8 30	M 8 x 30	HW 500
1011 8 35	M 8 x 35	HW 500
1011 8 40	M 8 x 40	HW 500
1011 8 45	M 8 x 45	H 200
1011 8 50	M 8 x 50	H 200
1011 8 55	M 8 x 55	H 200
1011 8 60	M 8 x 60	H 200
1011 8 65	M 8 x 65	H 200
1011 8 70	M 8 x 70	H 200
1011 8 75	M 8 x 75	H 200
1011 8 80	M 8 x 80	100
1011 8 90	M 8 x 90	100
1011 8 100	M 8 x 100	100
1011 8 110	M 8 x 110	100
1011 8 115	M 8 x 115	100
1011 8 120	M 8 x 120	f 100
1011 8 130	M 8 x 130	100
1011 8 140	M 8 x 140	100
1011 8 150	M 8 x 150	100
1011 8 160	M 8 x 160	50
1011 8 180	M 8 x 180	50
1011 10 12	M 10 x 12	H 200
1011 10 16	M 10 x 16	H 200
1011 10 18	M 10 x 18	H 200
1011 10 20	M 10 x 20	H 200
1011 10 22	M 10 x 22	H 200
1011 10 25	M 10 x 25	H 200
1011 10 30	M 10 x 30	H 200
1011 10 35	M 10 x 35	H 200
1011 10 40	M 10 x 40	H 200
1011 10 45	M 10 x 45	100
1011 10 50	M 10 x 50	100
1011 10 55	M 10 x 55	100
1011 10 60	M 10 x 60	100
1011 10 65	M 10 x 65	100
1011 10 70	M 10 x 70	100
1011 10 75	M 10 x 75	100
1011 10 80	M 10 x 80	100
1011 10 85	M 10 x 85	100
1011 10 90	M 10 x 90	100
1011 10 100	M 10 x 100	100
1011 10 110	M 10 x 110	50
1011 10 120	M 10 x 120	50
1011 10 130	M 10 x 130	50
1011 10 140	M 10 x 140	50
1011 10 150	M 10 x 150	50
1011 10 160	M 10 x 160	50
1011 12 16	M 12 x 16	100
1011 12 18	M 12 x 18	100
1011 12 20	M 12 x 20	100
1011 12 22	M 12 x 22	100
1011 12 25	M 12 x 25	100
1011 12 30	M 12 x 30	100
1011 12 35	M 12 x 35	100
1011 12 40	M 12 x 40	100
1011 12 45	M 12 x 45	100
1011 12 50	M 12 x 50	100
1011 12 55	M 12 x 55	100

Specifications



Thread Dia.	Head size	k
mm	mm	mm
M 3	5.5	2.0
M 4	7	2.8
M 5	8	3.5
M 6	10	4.0
M 7	11	5.0
M 8	13	5.3
M 10	17	6.4
M 12	18	7.5
M 14	22	8.8
M 16	24	10.0
M 18	27	11.5
M 20	30	12.5
M 22	32	14.0
M 24	36	15.0
M 27	41	17.0
M30	46	18.7

Item no.	Dimension	QTY
1011 12 60	M 12 x 60	100
1011 12 65	M 12 x 65	50
1011 12 70	M 12 x 70	50
1011 12 75	M 12 x 75	50
1011 12 80	M 12 x 80	50
1011 12 90	M 12 x 90	50
1011 12 100	M 12 x 100	50
1011 12 110	M 12 x 110	50
1011 12 120	M 12 x 120	g 50
1011 12 130	M 12 x 130	50
1011 12 140	M 12 x 140	50
1011 12 150	M 12 x 150	50
1011 12 160	M 12 x 160	25
1011 12 180	M 12 x 180	25
1011 14 20	M 14 x 20	100
1011 14 25	M 14 x 25	100
1011 14 30	M 14 x 30	100
1011 14 35	M 14 x 35	100
1011 14 40	M 14 x 40	100
1011 14 45	M 14 x 45	50
1011 14 50	M 14 x 50	50
1011 14 55	M 14 x 55	50
1011 14 60	M 14 x 60	50
1011 14 65	M 14 x 65	50
1011 14 70	M 14 x 70	25
1011 14 80	M 14 x 80	25
1011 14 90	M 14 x 90	25
1011 14 100	M 14 x 100	25
1011 14 120	M 14 x 120	50
1011 16 20	M 16 x 20	50
1011 16 25	M 16 x 25	50
1011 16 30	M 16 x 30	50
1011 16 35	M 16 x 35	50
1011 16 40	M 16 x 40	50
1011 16 45	M 16 x 45	50
1011 16 50	M 16 x 50	50
1011 16 55	M 16 x 55	50
1011 16 60	M 16 x 60	50
1011 16 65	M 16 x 65	25
1011 16 70	M 16 x 70	25
1011 16 75	M 16 x 75	25
1011 16 80	M 16 x 80	25
1011 16 85	M 16 x 85	25

Continued on next page

Hex Head Bolts DIN 933 8.8, Galvanized

- In compliance with ISO 4017
- With thread up to head
- Strength class 8.8
- Galvanized steel

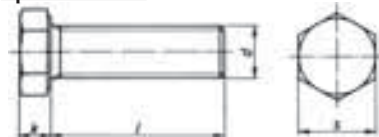


Item no.	Dimension	QTY
1011 16 90	M 16 x 90	25
1011 16 95	M 16 x 95	25
1011 16 100	M 16 x 100	25
1011 16 110	M 16 x 110	25
1011 16 120	M 16 x 120	25
1011 16 130	M 16 x 130	25
1011 16 140	M 16 x 140	25
1011 16 150	M 16 x 150	25
1011 16 160	M 16 x 160	25
1011 16 200	M 16 x 200	25
1011 18 30	M 18 x 30	50
1011 18 35	M 18 x 35	50
1011 18 40	M 18 x 40	50
1011 18 45	M 18 x 45	50
1011 18 50	M 18 x 50	50
1011 18 55	M 18 x 55	25
1011 18 60	M 18 x 60	25
1011 18 65	M 18 x 65	25
1011 18 70	M 18 x 70	25
1011 18 80	M 18 x 80	25
1011 18 90	M 18 x 90	25
1011 20 25	M 20 x 25	25
1011 20 30	M 20 x 30	25
1011 20 35	M 20 x 35	25
1011 20 40	M 20 x 40	25
1011 20 45	M 20 x 45	25
1011 20 50	M 20 x 50	25
1011 20 55	M 20 x 55	25
1011 20 60	M 20 x 60	10
1011 20 65	M 20 x 65	25
1011 20 70	M 20 x 70	25
1011 20 75	M 20 x 75	25

(d thread dia. x length mm)

Item no.	Dimension	QTY
1011 20 80	M 20 x 80	25
1011 20 90	M 20 x 90	25
1011 20 100	M 20 x 100	25
1011 20 110	M 20 x 110	25
1011 20 120	M 20 x 120	25
1011 20 130	M 20 x 130	25
1011 20 140	M 20 x 140	25
1011 20 150	M 20 x 150	25
1011 20 160	M 20 x 160	25
1011 20 180	M 20 x 180	10
1011 20 200	M 20 x 200	25
1011 22 40	M 22 x 40	25
1011 22 50	M 22 x 50	25
1011 22 55	M 22 x 55	25
1011 22 60	M 22 x 60	25
1011 22 65	M 22 x 65	25
1011 22 70	M 22 x 70	25
1011 22 80	M 22 x 80	25
1011 24 30	M 24 x 30	25
1011 24 35	M 24 x 35	25
1011 24 40	M 24 x 40	25
1011 24 45	M 24 x 45	25
1011 24 50	M 24 x 50	25
1011 24 55	M 24 x 55	25
1011 24 60	M 24 x 60	25
1011 24 65	M 24 x 65	25
1011 24 70	M 24 x 70	10
1011 24 75	M 24 x 75	25
1011 24 80	M 24 x 80	25
1011 24 90	M 24 x 90	25
1011 24 100	M 24 x 100	10
1011 24 110	M 24 x 110	10

Specifications



Thread	Head size	k
Dia. mm	mm	mm
M 3	5.5	2.0
M 4	7	2.8
M 5	8	3.5
M 6	10	4.0
M 7	11	5.0
M 8	13	5.3
M 10	17	6.4
M 12	18	7.5
M 14	22	8.8
M 16	24	10.0
M 18	27	11.5
M 20	30	12.5
M 22	32	14.0
M 24	36	15.0
M 27	41	17.0
M 30	46	18.7

Hex Head Bolts DIN 933 10.9, Plain Steel

- In compliance with ISO 4017
- With thread up to head
- Strength class 10.9
- Plain Steel

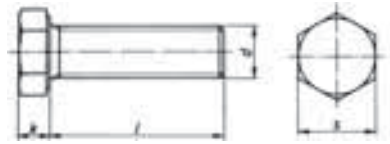
Item no.	Dimension	QTY
1013 6 12	M 6 x 12	200
1013 6 16	M 6 x 16	200
1013 6 20	M 6 x 20	200
1013 6 25	M 6 x 25	200
1013 6 30	M 6 x 30	200
1013 6 35	M 6 x 35	200
1013 6 40	M 6 x 40	200
1013 6 45	M 6 x 45	200
1013 6 50	M 6 x 50	200
1013 6 60	M 6 x 60	200
1013 6 70	M 6 x 70	200
1013 6 80	M 6 x 80	200
1013 8 16	M 8 x 16	200
1013 8 20	M 8 x 20	200
1013 8 25	M 8 x 25	200
1013 8 30	M 8 x 30	200
1013 8 35	M 8 x 35	200
1013 8 40	M 8 x 40	200
1013 8 45	M 8 x 45	200
1013 8 50	M 8 x 50	200
1013 8 60	M 8 x 60	200
1013 8 70	M 8 x 70	200
1013 8 80	M 8 x 80	200
1013 8 90	M 8 x 90	200
1013 8 100	M 8 x 100	200
1013 10 16	M 10 x 16	200
1013 10 20	M 10 x 20	200
1013 10 25	M 10 x 25	200
1013 10 30	M 10 x 30	200
1013 10 35	M 10 x 35	100
1013 10 40	M 10 x 40	100
1013 10 45	M 10 x 45	100
1013 10 50	M 10 x 50	100
1013 10 60	M 10 x 60	100
1013 10 70	M 10 x 70	100
1013 10 80	M 10 x 80	100
1013 10 90	M 10 x 90	100
1013 10 100	M 10 x 100	100
1013 10 110	M 10 x 110	100
1013 10 120	M 10 x 120	100
1013 10 130	M 10 x 130	50
1013 10 140	M 10 x 140	50
1013 10 150	M 10 x 150	50
1013 12 20	M 12 x 20	100
1013 12 25	M 12 x 25	100

(d thread dia. x length mm)

Item no.	Dimension	QTY
1013 12 30	M 12 x 30	100
1013 12 35	M 12 x 35	100
1013 12 40	M 12 x 40	100
1013 12 45	M 12 x 45	100
1013 12 50	M 12 x 50	100
1013 12 60	M 12 x 60	100
1013 12 70	M 12 x 70	100
1013 12 80	M 12 x 80	50
1013 12 90	M 12 x 90	50
1013 12 100	M 12 x 100	50
1013 12 110	M 12 x 110	50
1013 12 120	M 12 x 120	50
1013 12 130	M 12 x 130	50
1013 12 140	M 12 x 140	50
1013 12 150	M 12 x 150	50
1013 14 30	M 14 x 30	100
1013 14 35	M 14 x 35	100
1013 14 40	M 14 x 40	100
1013 14 45	M 14 x 45	50
1013 14 50	M 14 x 50	50
1013 14 60	M 14 x 60	50
1013 14 70	M 14 x 70	50
1013 14 80	M 14 x 80	50
1013 14 90	M 14 x 90	50
1013 14 100	M 14 x 100	50
1013 16 30	M 16 x 30	50
1013 16 35	M 16 x 35	50
1013 16 40	M 16 x 40	50
1013 16 45	M 16 x 45	50
1013 16 50	M 16 x 50	50
1013 16 60	M 16 x 60	50
1013 16 70	M 16 x 70	50
1013 16 80	M 16 x 80	50
1013 16 90	M 16 x 90	50
1013 16 100	M 16 x 100	50
1013 16 110	M 16 x 110	50
1013 16 120	M 16 x 120	50
1013 16 130	M 16 x 130	50
1013 16 140	M 16 x 140	50
1013 16 150	M 16 x 150	25
1013 18 70	M 18 x 70	50
1013 20 40	M 20 x 40	25
1013 20 60	M 20 x 60	25
1013 24 70	M 24 x 70	25



Specifications



Thread	Head size	k
Dia.	mm	mm
M 6	10	4.0
M 8	13	5.3
M 10	17	6.4
M 12	18	7.5
M 14	22	8.8
M 16	24	10.0
M 18	27	11.5
M 20	30	12.5
M 24	36	15.0

Inch Size Hex Head Bolts DIN 931 UNC, Galvanized

- In compliance with ISO 4014
- Strength class 8.8
- Galvanized steel

Item no.	Dimension	QTY
1020 14 1	UNC 1/4 x 1	50
1020 14 114	UNC 1/4 x 1 1/4	50
1020 14 112	UNC 1/4 x 1 1/2	50
1020 14 2	UNC 1/4 x 2	50
1020 14 214	UNC 1/4 x 2 1/4	50
1020 14 3	UNC 1/4 x 3	50
1020 516 214	UNC 5/16x2 1/4	50
1020 516 212	UNC 5/16x2 1/2	50
1020 516 234	UNC 5/16x2 3/4	50
1020 516 3	UNC 5/16 x 3	50
1020 38 114	UNC 3/8 x 1 1/4	200
1020 38 112	UNC 3/8 x 1 1/2	50
1020 38 134	UNC 3/8 x 1 3/4	50

(d thread dia. x length mm)

Item no.	Dimension	QTY
1020 38 2	UNC 3/8 x 2	50
1020 38 214	UNC 3/8 x 2 1/4	50
1020 38 212	UNC 3/8 x 2 1/2	50
1020 38 234	UNC 3/8 x 2 3/4	50
1020 38 3	UNC 3/8 x 3	50
1020 716 4	UNC 7/16 x 4	50
1020 12 134	UNC 1/2 x 1 3/4	50
1020 12 214	UNC 1/2 x 2 1/4	50
1020 12 212	UNC 1/2 x 2 1/2	50
1020 12 3	UNC 1/2 x 3	50
1020 58 114	UNC 5/8 x 1 1/4	50
1020 58 312	UNC 5/8 x 3 1/2	50



Specifications



Thread	Head size	k	b	b	Gear no.
Dia.	Inch	mm	L < 152	L > 152	at 1 Inch
1/4"	7/16"	4.0	19	-	20
5/16"	1/2"	5.2	22	-	18
3/8"	9/16"	6.0	25	-	16
7/16"	5/8"	7.1	28	-	14
1/2"	3/4"	7.9	32	38	13
5/8"	15/16"	9.9	38	44	11

Inch Size Hex Head Bolts DIN 931 UNF, Galvanized

- In compliance with ISO 4014
- Strength class 8.8
- Fine thread
- Galvanized steel

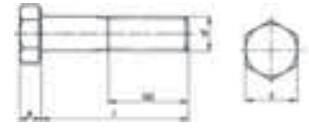


Item no.	Dimension	QTY
1022 14 1	UNF 1/4 x 1	50
1022 14 114	UNF 1/4 x 1 1/4	50
1022 516 114	UNF 5/16x1 1/4	50
1022 516 112	UNF 5/16x1 1/2	50
1022 516 134	UNF 5/16x1 3/4	50
1022 516 2	UNF 5/16 x 2	50
1022 516 214	UNF 5/16x2 1/4	50
1022 516 212	UNF 5/16x2 1/2	50
1022 38 112	UNF 3/8 x 1 1/2	50
1022 38 134	UNF 3/8 x 1 3/4	50

(d thread dia. x length mm)

Item no.	Dimension	QTY
1022 38 2	UNF 3/8 x 2	50
1022 38 214	UNF 3/8 x 2 1/4	50
1022 38 212	UNF 3/8 x 2 1/2	50
1022 38 4	UNF 3/8 x 4	50
1022 716 112	UNF 7/16x1 1/2	50
1022 716 134	UNF 7/16x1 3/4	50
1022 12 134	UNF 1/2 x 1 3/4	50
1022 916 234	UNF 9/16x2 3/4	50
1022 34 312	UNF 3/4 x 3 1/2	50

Specifications



Thread	Head size	k	b	b	Threads
Dia.	size	L < 152	L > 152	per	
Inch	Inch	mm	mm	Inch	
1/4"	7/16"	4.0	19	-	28
5/16"	1/2"	5.2	22	-	24
3/8"	9/16"	6.0	25	-	24
7/16"	5/8"	7.1	28	-	20
1/2"	3/4"	7.9	32	38	20
9/16"	13/16"	9.1	35	41	18
3/4"	1 1/8"	11.9	44	51	16

Inch Size Hex Head Bolts DIN 933 UNC, Galvanized

- In compliance with ISO 4017
- Strength class 8.8
- Galvanized steel



Item no.	Dimension	QTY
1025 14 12	UNC 1/4 x 1/2	50
1025 14 34	UNC 1/4 x 3/4	50
1025 516 12	UNC 5/16 x 1/2	50
1025 516 58	UNC 5/16 x 5/8	50
1025 516 34	UNC 5/16 x 3/4	50
1025 38 58	UNC 3/8 x 5/8	50
1025 38 34	UNC 3/8 x 3/4	50
1025 38 1	UNC 3/8 x 1	50

(d thread dia. x length mm)

Item no.	Dimension	QTY
1025 38 114	UNC 3/8 x 1 1/4	50
1025 12 34	UNC 1/2 x 3/4	50
1025 716 1	UNC 7/16 x 1	50
1025 12 1	UNC 1/2 x 1	50
1025 12 114	UNC 1/2 x 1 1/4	50
1025 12 112	UNC 1/2 x 1 1/2	50
1025 34 2	UNC 3/4 x 2	50

Specifications



Thread	Head size	k	Threads
Dia.	size	mm	per
Inch	Inch		Inch
1/4"	7/16"	4.0	20
5/16"	1/2"	5.2	18
3/8"	9/16"	6.0	16
7/16"	5/8"	7.1	14
1/2"	3/4"	7.9	13
3/4"	1 1/8"	11.9	10

Inch Size Hex Head Bolts DIN 933 UNF, Galvanized

- In compliance with ISO 4017
- Strength class 8.8
- Fine thread
- Galvanized steel



Item no.	Dimension	QTY
1027 14 12	UNF 1/4 x 1/2	50
1027 14 58	UNF 1/4 x 5/8	50
1027 14 34	UNF 1/4 x 3/4	50
1027 14 78	UNF 1/4 x 7/8	50
1027 14 1	UNF 1/4 x 1	50
1027 14 114	UNF 1/4 x 1 1/4	50
1027 14 112	UNF 1/4 x 1 1/2	50
1027 14 134	UNF 1/4 x 1 3/4	50
1027 14 2	UNF 1/4 x 2	50
1027 516 12	UNF 5/16 x 1/2	50
1027 516 58	UNF 5/16 x 5/8	50
1027 516 34	UNF 5/16 x 3/4	50

(d thread dia. x length mm)

Item no.	Dimension	QTY
1027 516 78	UNF 5/16 x 7/8	50
1027 516 1	UNF 5/16 x 1	50
1027 38 58	UNF 3/8 x 5/8	50
1027 38 34	UNF 3/8 x 3/4	50
1027 38 78	UNF 3/8 x 7/8	50
1027 38 114	UNF 3/8 x 1 1/4	50
1027 716 1	UNF 7/16 x 1	50
1027 716 114	UNF 7/16x1 1/4	50
1027 12 34	UNF 1/2 x 3/4	50
1027 12 1	UNF 1/2 x 1	50
1027 12 114	UNF 1/2 x 1 1/4	50
1027 916 112	UNF 9/16x1 1/2	50

Specifications



Thread	Head size	k	Threads
Dia.	size	mm	per
Inch	Inch		Inch
1/4"	7/16"	4.0	28
5/16"	1/2"	5.2	24
3/8"	9/16"	6.0	24
7/16"	5/8"	7.1	20
1/2"	3/4"	7.9	20
9/16"	13/16"	9.1	18

Hex Head Bolts DIN 960 10.9, Galvanized

- In compliance with ISO 8765
- With shank - fine thread
- Strength class 10.9
- Galvanized steel

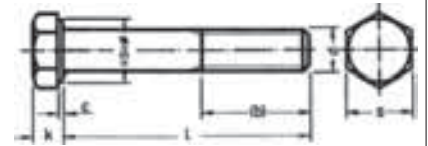
Item no.	Dimension	QTY
1031 10 1 40	M 10 x 1 x 40	200
1031 10 1 70	M 10 x 1 x 70	200
1031 10 1 80	M 10 x 1 x 80	200
1031 12 15 45	M 12 x 1,5 x 45	100
1031 12 15 50	M 12 x 1,5 x 50	100
1031 12 15 55	M 12 x 1,5 x 55	100
1031 12 15 60	M 12 x 1,5 x 60	100
1031 12 15 65	M 12 x 1,5 x 65	50
1031 12 15 70	M 12 x 1,5 x 70	50
1031 12 15 80	M 12 x 1,5 x 80	50
1031 12 15 100	M 12x1,5x100	50
1031 12 15 110	M 12x1,5x110	50
1031 12 15 120	M 12x1,5x120	50
1031 14 15 50	M 14 x 1,5 x 50	50
1031 14 15 55	M 14 x 1,5 x 55	50
1031 14 15 60	M 14 x 1,5 x 60	50
1031 14 15 65	M 14 x 1,5 x 65	50
1031 14 15 70	M 14 x 1,5 x 70	50
1031 14 15 75	M 14 x 1,5 x 75	50
1031 14 15 80	M 14 x 1,5 x 80	50
1031 14 15 90	M 14 x 1,5 x 90	50

(d thread dia. x pitch x length mm)

Item no.	Dimension	QTY
1031 14 15 100	M 14x1,5x100	50
1031 14 15 120	M 14x1,5x120	50
1031 16 15 55	M 16 x 1,5 x 55	50
1031 16 15 60	M 16 x 1,5 x 60	50
1031 16 15 65	M 16 x 1,5 x 65	25
1031 16 15 70	M 16 x 1,5 x 70	25
1031 16 15 80	M 16 x 1,5 x 80	25
1031 16 15 90	M 16 x 1,5 x 90	25
1031 16 15 100	M 16x1,5x100	25
1031 16 15 110	M 16x1,5x110	25
1031 16 15 120	M 16x1,5x120	25
1031 16 15 140	M 16x1,5x140	25
1031 16 15 150	M 16x1,5x150	25
1031 18 15 55	M 18 x 1,5 x 55	25
1031 18 15 65	M 18 x 1,5 x 65	25
1031 18 15 70	M 18 x 1,5 x 70	25
1031 18 15 100	M 18x1,5x100	25
1031 18 15 120	M 18x1,5x120	25
1031 20 15 70	M 20 x 1,5 x 70	25
1031 20 15 90	M 20 x 1,5 x 90	25
1031 20 15 110	M 20x1,5x110	25
1031 20 15 140	M 20x1,5x140	25



Specifications



Thread Dia.	Head size mm	k mm	c max mm	b L < 125 mm	b L 125 - 200 mm
M 10	17	6.4	0.6	26	-
M 12	19	7.5	0.6	30	-
M 14	22	8.8	0.8	34	-
M 16	24	10.0	0.8	38	44
M 18	27	11.5	0.8	42	-
M 20	30	12.5	0.8	46	-

Hex Head Bolts DIN 961 10.9, Galvanized

- In compliance with ISO 8676
- With thread up to head - fine thread
- Strength class 10.9
- Galvanized steel

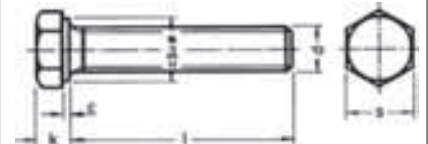
Item no.	Dimension	QTY
1041 8 1 10	M 8 x 1 x 10	200
1041 8 1 20	M 8 x 1 x 20	200
1041 8 1 25	M 8 x 1 x 25	200
1041 8 1 30	M 8 x 1 x 30	100
1041 8 1 35	M 8 x 1 x 35	100
1041 8 1 40	M 8 x 1 x 40	100
1041 10 1 20	M 10 x 1 x 20	100
1041 10 1 25	M 10 x 1 x 25	100
1041 10 1 30	M 10 x 1 x 30	100
1041 10 1 40	M 10 x 1 x 40	100
1041 10 125 20	M 10x1,25x20	100
1041 10 125 30	M 10x1,25x30	100
1041 10 125 40	M 10x1,25x40	100
1041 12 15 25	M 12 x 1,5 x 25	100
1041 12 15 30	M 12 x 1,5 x 30	100
1041 12 15 35	M 12 x 1,5 x 35	100
1041 12 15 40	M 12 x 1,5 x 40	100

(d thread dia. x pitch x length mm)

Item no.	Dimension	QTY
1041 12 15 45	M 12 x 1,5 x 45	100
1041 12 15 50	M 12 x 1,5 x 50	100
1041 14 15 30	M 14 x 1,5 x 30	100
1041 14 15 35	M 14 x 1,5 x 35	100
1041 14 15 40	M 14 x 1,5 x 40	100
1041 14 15 45	M 14 x 1,5 x 45	50
1041 14 15 50	M 14 x 1,5 x 50	50
1041 16 15 30	M 16 x 1,5 x 30	50
1041 16 15 35	M 16 x 1,5 x 35	50
1041 16 15 40	M 16 x 1,5 x 40	50
1041 16 15 45	M 16 x 1,5 x 45	50
1041 16 15 50	M 16 x 1,5 x 50	50
1041 18 15 40	M 18 x 1,5 x 40	50
1041 18 15 45	M 18 x 1,5 x 45	50
1041 18 15 50	M 18 x 1,5 x 50	50
1041 20 15 45	M 20 x 1,5 x 45	25
1041 20 15 60	M 20 x 1,5 x 60	25



Specifications



Thread Dia.	Head size mm	k mm	c mm
M 8	13	5.3	0.6
M 10	17	6.4	0.6
M 12	19	7.5	0.6
M 14	22	8.8	0.6
M 16	24	10.0	0.8
M 18	27	11.5	0.8
M 20	30	12.5	0.8

Universal Joint Bolts 10.9, yellow galvanized

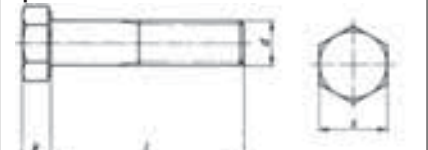
- With shank - fine thread
- Strength class 10.9
- Steel yellow galvanized

Item no.	Dimension	QTY
1070 8 1 25	M 8 x 1 x 25	50
1070 10 1 26	M 10 x 1 x 26	50
1070 10 1 30	M 10 x 1 x 30	50
1070 12 15 30	M 12 x 1,5 x 30	50
1070 12 15 35	M 12 x 1,5 x 35	50
1070 12 15 40	M 12 x 1,5 x 40	50

(d thread dia. x pitch x length mm)

Item no.	Dimension	QTY
1070 14 15 35	M 14 x 1,5 x 35	50
1070 14 15 40	M 14 x 1,5 x 40	50
1070 14 15 45	M 14 x 1,5 x 45	50
1070 16 15 40	M 16 x 1,5 x 40	50
1070 16 15 45	M 16 x 1,5 x 45	50
1070 16 15 50	M 16 x 1,5 x 50	50

Specifications



Thread Dia.	Head size mm
M 8	13
M 10	17
M 12	19
M 14	22
M 16	24



Self-locking Bolts 8.8, Galvanized

- Strength class 8.8
- Galvanized steel

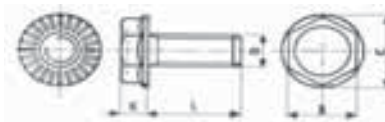
Item no.	Dimension	QTY
1071 5 12	M 5 x 12	H 500
1071 5 16	M 5 x 16	H 500
1071 6 10	M 6 x 10	H 500
1071 6 12	M 6 x 12	H 500
1071 6 14	M 6 x 14	H 500
1071 6 16	M 6 x 16	H 500
1071 6 20	M 6 x 20	H 500
1071 6 25	M 6 x 25	H 500
1071 6 30	M 6 x 30	H 500
1071 8 12	M 8 x 12	f 500
1071 8 16	M 8 x 16	f 500
1071 8 20	M 8 x 20	f 500

(d thread dia. x length mm)

Item no.	Dimension	QTY
1071 8 25	M 8 x 25	f 500
1071 8 30	M 8 x 30	f 500
1071 8 35	M 8 x 35	f 500
1071 8 40	M 8 x 40	f 500
1071 10 16	M 10 x 16	g 50
1071 10 20	M 10 x 20	g 50
1071 10 25	M 10 x 25	g 50
1071 10 30	M 10 x 30	g 50
1071 10 35	M 10 x 35	g 50
1071 10 40	M 10 x 40	g 50
1071 12 20	M 12 x 20	g 50



Specifications



Thread Dia.	Head size	c	k
mm	mm	mm	mm
M 5	8	11.0	4.8
M 6	10	13.0	5.5
M 8	13	16.5	7.4
M 10	15	22.2	9.1
M 12	16	25.0	11.3

Self-locking Bolts 10.9 Galvanized

- Strength class 10.9
- Galvanized steel

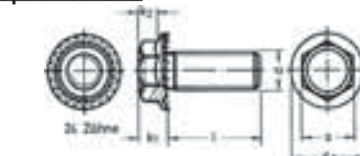
Item no.	Dimension	QTY
1074 6 10	M 6 x 10	100
1074 6 16	M 6 x 16	100
1074 6 20	M 6 x 20	100
1074 6 25	M 6 x 25	100
1074 6 30	M 6 x 30	100
1074 8 12	M 8 x 12	100
1074 8 16	M 8 x 16	100
1074 8 20	M 8 x 20	100
1074 8 25	M 8 x 25	100
1074 8 30	M 8 x 30	100
1074 8 35	M 8 x 35	100
1074 8 40	M 8 x 40	100
1074 10 16	M 10 x 16	50
1074 10 20	M 10 x 20	50
1074 10 25	M 10 x 25	50
1074 10 30	M 10 x 30	50
1074 10 35	M 10 x 35	50

(d thread dia. x length mm)

Item no.	Dimension	QTY
1074 10 40	M 10 x 40	50
1074 12 20	M 12 x 20	50
1074 12 25	M 12 x 25	50
1074 12 30	M 12 x 30	50
1074 12 35	M 12 x 35	50
1074 12 40	M 12 x 40	50
1074 12 45	M 12 x 45	50
1074 12 50	M 12 x 50	50
1074 16 25	M 16 x 25	25
1074 16 30	M 16 x 30	25
1074 16 35	M 16 x 35	25
1074 16 40	M 16 x 40	25
1074 16 45	M 16 x 45	25
1074 16 50	M 16 x 50	25
1074 16 60	M 16 x 60	25
1074 16 70	M 16 x 70	25



Specifications



Thread Dia.	Head size	d2	k1	k2
mm	mm	mm	mm	mm
M 6	10	14.25	5.5	3,8
M 8	13	18.25	7.0	5,0
M 10	17	21.00	7.9	5,6
M 12	19	24.00	8.7	5,9
M 16	24	31.00	11.2	7,4

Hex Head Bolts with Collar 10.9, Dacromet Coated

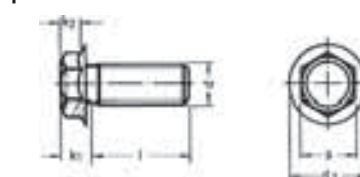
- Strength class 10.9
- Dacromet coated
- Genuine Mercedes bolts

Item no.	Dimension	QTY
1076 12 15 30	M 12 x 1,5 x 30	100
1076 12 15 35	M 12 x 1,5 x 35	100
1076 12 15 40	M 12 x 1,5 x 40	100
1076 12 15 45	M 12 x 1,5 x 45	100
1076 12 15 50	M 12 x 1,5 x 50	100
1076 14 15 30	M 14 x 1,5 x 30	100
1076 14 15 35	M 14 x 1,5 x 35	100
1076 14 15 40	M 14 x 1,5 x 40	100
1076 14 15 45	M 14 x 1,5 x 45	100
1076 14 15 50	M 14 x 1,5 x 50	100
1076 14 15 60	M 14 x 1,5 x 60	100

(d thread dia. x pitch x length mm)



Specifications



Thread Dia.	Head size	d2	k1	k2
mm	mm	mm	mm	mm
M 12	18	21.8	11.5	5.2
M 14	21	26.0	12.8	5.6

Hex Head Bolts with Nuts DIN 601 4.6, Galvanized



- In compliance with ISO 4016
- With shank and hex nut DIN 555
- Strength class 4.6
- Galvanized steel



Item no.	Dimension	QTY
1051 5 10	M 5 x 10	200
1051 5 16	M 5 x 16	200
1051 5 20	M 5 x 20	200
1051 5 25	M 5 x 25	200
1051 5 30	M 5 x 30	200
1051 5 35	M 5 x 35	200
1051 5 40	M 5 x 40	200
1051 5 45	M 5 x 45	200
1051 5 50	M 5 x 50	200
1051 5 60	M 5 x 60	200
1051 5 70	M 5 x 70	200
1051 6 10	M 6 x 10	200
1051 6 16	M 6 x 16	200
1051 6 20	M 6 x 20	200
1051 6 25	M 6 x 25	200
1051 6 30	M 6 x 30	200
1051 6 35	M 6 x 35	200
1051 6 40	M 6 x 40	200
1051 6 45	M 6 x 45	200
1051 6 50	M 6 x 50	200
1051 6 55	M 6 x 55	100
1051 6 60	M 6 x 60	100
1051 6 70	M 6 x 70	100
1051 6 80	M 6 x 80	100
1051 6 90	M 6 x 90	100
1051 6 100	M 6 x 100	50
1051 6 110	M 6 x 110	50
1051 6 120	M 6 x 120	50
1051 8 16	M 8 x 16	200
1051 8 20	M 8 x 20	200
1051 8 25	M 8 x 25	200
1051 8 30	M 8 x 30	200
1051 8 35	M 8 x 35	200
1051 8 40	M 8 x 40	200
1051 8 45	M 8 x 45	200
1051 8 50	M 8 x 50	200
1051 8 55	M 8 x 55	200
1051 8 60	M 8 x 60	200
1051 8 65	M 8 x 65	200
1051 8 70	M 8 x 70	200
1051 8 80	M 8 x 80	200
1051 8 90	M 8 x 90	100
1051 8 100	M 8 x 100	100
1051 8 110	M 8 x 110	50
1051 8 120	M 8 x 120	100
1051 8 140	M 8 x 140	50
1051 8 160	M 8 x 160	25
1051 8 180	M 8 x 180	25
1051 8 200	M 8 x 200	25
1051 10 16	M 10 x 16	200
1051 10 20	M 10 x 20	200
1051 10 25	M 10 x 25	200
1051 10 30	M 10 x 30	200
1051 10 35	M 10 x 35	100
1051 10 40	M 10 x 40	100
1051 10 45	M 10 x 45	100
1051 10 50	M 10 x 50	100
1051 10 55	M 10 x 55	100
1051 10 60	M 10 x 60	100
1051 10 65	M 10 x 65	100
1051 10 70	M 10 x 70	100
1051 10 80	M 10 x 80	100
1051 10 90	M 10 x 90	100
1051 10 100	M 10 x 100	100
1051 10 110	M 10 x 110	50
1051 10 120	M 10 x 120	50
1051 10 130	M 10 x 130	50
1051 10 140	M 10 x 140	50
1051 10 150	M 10 x 150	50

(d thread dia. x Length mm)

Item no.	Dimension	QTY
1051 10 160	M 10 x 160	25
1051 10 180	M 10 x 180	25
1051 10 200	M 10 x 200	50
1051 10 220	M 10 x 220	25
1051 10 240	M 10 x 240	25
1051 10 260	M 10 x 260	25
1051 10 280	M 10 x 280	25
1051 12 20	M 12 x 20	100
1051 12 25	M 12 x 25	100
1051 12 30	M 12 x 30	100
1051 12 35	M 12 x 35	100
1051 12 40	M 12 x 40	100
1051 12 45	M 12 x 45	100
1051 12 50	M 12 x 50	100
1051 12 55	M 12 x 55	100
1051 12 60	M 12 x 60	100
1051 12 65	M 12 x 65	50
1051 12 70	M 12 x 70	50
1051 12 75	M 12 x 75	50
1051 12 80	M 12 x 80	50
1051 12 90	M 12 x 90	50
1051 12 100	M 12 x 100	50
1051 12 110	M 12 x 110	50
1051 12 120	M 12 x 120	50
1051 12 130	M 12 x 130	50
1051 12 140	M 12 x 140	50
1051 12 150	M 12 x 150	50
1051 12 160	M 12 x 160	25
1051 12 180	M 12 x 180	25
1051 12 190	M 12 x 190	25
1051 12 200	M 12 x 200	25
1051 12 220	M 12 x 220	25
1051 12 240	M 12 x 240	25
1051 12 260	M 12 x 260	25
1051 12 280	M 12 x 280	25
1051 12 300	M 12 x 300	25
1051 12 320	M 12 x 320	25
1051 12 340	M 12 x 340	25
1051 12 360	M 12 x 360	25
1051 12 380	M 12 x 380	25
1051 12 400	M 12 x 400	25
1051 12 420	M 12 x 420	25
1051 12 440	M 12 x 440	25
1051 12 460	M 12 x 460	25
1051 12 480	M 12 x 480	25
1051 12 500	M 12 x 500	25
1051 12 520	M 12 x 520	z 25
1051 12 540	M 12 x 540	10
1051 12 560	M 12 x 560	25
1051 12 580	M 12 x 580	25
1051 12 600	M 12 x 600	25
1051 14 30	M 14 x 30	100
1051 14 35	M 14 x 35	100
1051 14 40	M 14 x 40	100
1051 14 50	M 14 x 50	50
1051 14 60	M 14 x 60	50
1051 14 70	M 14 x 70	50
1051 14 80	M 14 x 80	50
1051 14 100	M 14 x 100	50
1051 16 30	M 16 x 30	50
1051 16 35	M 16 x 35	50
1051 16 40	M 16 x 40	50
1051 16 45	M 16 x 45	50
1051 16 50	M 16 x 50	50
1051 16 55	M 16 x 55	50
1051 16 60	M 16 x 60	50
1051 16 65	M 16 x 65	25
1051 16 70	M 16 x 70	25
1051 16 75	M 16 x 75	25

Specifications

Thread	Head size	k	b	b	b
Dia. mm	mm	mm	L < 125	L 125 - 200	L > 200
M 5	8	3.5	16	-	-
M 6	10	4.0	18	-	-
M 8	13	5.3	22	28	-
M 10	17	6.4	26	32	45
M 12	19	7.5	30	36	49
M 14	22	8.8	34	40	53
M 16	24	10.0	38	44	57
M 20	30	12.5	46	52	65
M 24	36	15.0	54	60	73

Item no.	Dimension	QTY
1051 16 80	M 16 x 80	25
1051 16 90	M 16 x 90	25
1051 16 100	M 16 x 100	25
1051 16 110	M 16 x 110	25
1051 16 120	M 16 x 120	25
1051 16 130	M 16 x 130	25
1051 16 140	M 16 x 140	25
1051 16 150	M 16 x 150	25
1051 16 160	M 16 x 160	25
1051 16 180	M 16 x 180	25
1051 16 200	M 16 x 200	25
1051 16 220	M 16 x 220	25
1051 16 240	M 16 x 240	25
1051 16 260	M 16 x 260	25
1051 16 280	M 16 x 280	25
1051 16 300	M 16 x 300	10
1051 16 320	M 16 x 320	10
1051 16 340	M 16 x 340	10
1051 16 360	M 16 x 360	10
1051 16 380	M 16 x 380	25
1051 16 400	M 16 x 400	10
1051 16 420	M 16 x 420	10
1051 16 440	M 16 x 440	10
1051 16 460	M 16 x 460	10
1051 16 480	M 16 x 480	10
1051 16 500	M 16 x 500	10
1051 16 520	M 16 x 520	10
1051 16 540	M 16 x 540	10
1051 16 560	M 16 x 560	10
1051 16 580	M 16 x 580	10
1051 16 600	M 16 x 600	10
1051 20 35	M 20 x 35	25
1051 20 40	M 20 x 40	25
1051 20 45	M 20 x 45	25
1051 20 50	M 20 x 50	25
1051 20 55	M 20 x 55	25
1051 20 60	M 20 x 60	25
1051 20 65	M 20 x 65	25
1051 20 70	M 20 x 70	25
1051 20 75	M 20 x 75	25
1051 20 80	M 20 x 80	25
1051 20 90	M 20 x 90	25
1051 20 100	M 20 x 100	25
1051 20 110	M 20 x 110	25
1051 20 120	M 20 x 120	25
1051 20 130	M 20 x 130	25
1051 20 140	M 20 x 140	25
1051 20 150	M 20 x 150	25
1051 20 160	M 20 x 160	10

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Hex Head Bolts with Nuts DIN 601 4.6, Galvanized

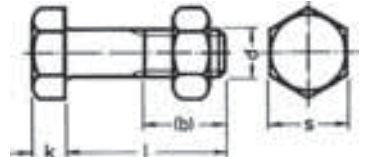
- In compliance with ISO 4016
- With shank and hex nut DIN 555
- Strength class 4.6
- **Galvanized steel**

Item no.	Dimension	QTY
1051 20 180	M 20 x 180	10
1051 20 200	M 20 x 200	10
1051 20 220	M 20 x 220	10
1051 20 240	M 20 x 240	10
1051 20 260	M 20 x 260	10
1051 20 280	M 20 x 280	10
1051 20 300	M 20 x 300	10
1051 20 320	M 20 x 320	10
1051 20 340	M 20 x 340	10
1051 20 360	M 20 x 360	10
1051 20 380	M 20 x 380	10
1051 20 400	M 20 x 400	10
1051 20 420	M 20 x 420	10
1051 20 440	M 20 x 440	15
1051 20 460	M 20 x 460	10
1051 20 480	M 20 x 480	10
1051 20 500	M 20 x 500	10
1051 20 520	M 20 x 520	5
1051 20 540	M 20 x 540	10
1051 20 560	M 20 x 560	10
1051 20 580	M 20 x 580	10
1051 20 600	M 20 x 600	10
1051 24 45	M 24 x 45	25
1051 24 50	M 24 x 50	25

(d thread dia. x Length mm)

Item no.	Dimension	QTY
1051 24 55	M 24 x 55	25
1051 24 60	M 24 x 60	25
1051 24 70	M 24 x 70	25
1051 24 80	M 24 x 80	25
1051 24 90	M 24 x 90	10
1051 24 100	M 24 x 100	10
1051 24 120	M 24 x 120	10
1051 24 140	M 24 x 140	10
1051 24 160	M 24 x 160	10
1051 24 180	M 24 x 180	10
1051 24 200	M 24 x 200	10
1051 24 220	M 24 x 220	10
1051 24 240	M 24 x 240	10
1051 24 260	M 24 x 260	10
1051 24 280	M 24 x 280	10
1051 24 300	M 24 x 300	10
1051 24 320	M 24 x 320	10
1051 24 340	M 24 x 340	10
1051 24 360	M 24 x 360	10
1051 24 380	M 24 x 380	10
1051 24 420	M 24 x 420	10
1051 24 440	M 24 x 440	10
1051 24 460	M 24 x 460	10

Specifications



Thread Dia.	Head size mm	k mm	b mm	L < 125 mm	L 125 - 200 mm	b mm
M 5	8	3.5	16	-	-	-
M 6	10	4.0	18	-	-	-
M 8	13	5.3	22	28	-	-
M 10	17	6.4	26	32	45	-
M 12	19	7.5	30	36	49	-
M 14	22	8.8	34	40	53	-
M 16	24	10.0	38	44	57	-
M 20	30	12.5	46	52	65	-
M 24	36	15.0	54	60	73	-

Slotted Mushroom Head Cap Screws, Galvanized

- **Galvanized steel**

Item no.	Dimension	QTY
1110 6 20	M 6 x 20	100
1110 6 25	M 6 x 25	100
1110 6 30	M 6 x 30	100
1110 6 35	M 6 x 35	100
1110 6 40	M 6 x 40	100

(d thread dia. x length mm)

Item no.	Dimension	QTY
1110 6 50	M 6 x 50	100
1110 8 20	M 8 x 20	100
1110 8 25	M 8 x 25	100
1110 8 30	M 8 x 30	100
1110 8 35	M 8 x 35	100

Item no.	Dimension	QTY
1110 8 40	M 8 x 40	100
1110 8 45	M 8 x 45	100
1110 8 50	M 8 x 50	100
1110 8 60	M 8 x 60	100

Studs DIN 835 8.8, Plain Steel

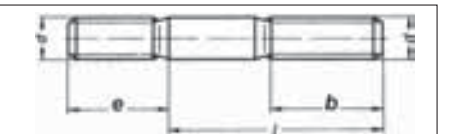
- Strength class 8.8
- **Plain Steel**

Item no.	Dimension	QTY
1810 8 30	M 8 x 30	100

(d thread Dia. x length mm)

Specifications

Thread Dia.	b mm	e mm
M 8	22	16



Studs DIN 939 5.8, Plain Steel

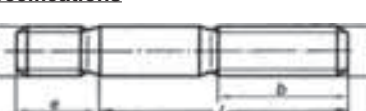
- Strength class 5.8
- **Plain Steel**

Item no.	Dimension	QTY
1800 6 20	M 6 x 20	100
1800 6 25	M 6 x 25	100
1800 6 30	M 6 x 30	100
1800 8 20	M 8 x 20	100
1800 8 25	M 8 x 25	100
1800 8 30	M 8 x 30	100
1800 8 35	M 8 x 35	100
1800 8 40	M 8 x 40	100
1800 8 45	M 8 x 45	100
1800 8 50	M 8 x 50	100
1800 8 55	M 8 x 55	100
1800 8 60	M 8 x 60	100
1800 8 70	M 8 x 70	100
1800 8 80	M 8 x 80	100
1800 10 25	M 10 x 25	100
1800 10 30	M 10 x 30	100
1800 10 35	M 10 x 35	100

(d thread dia. x length mm)

Item no.	Dimension	QTY
1800 10 40	M 10 x 40	100
1800 10 45	M 10 x 45	100
1800 10 50	M 10 x 50	100
1800 10 60	M 10 x 60	100
1800 10 65	M 10 x 65	100
1800 10 70	M 10 x 70	100
1800 10 80	M 10 x 80	50
1800 12 25	M 12 x 25	100
1800 12 30	M 12 x 30	100
1800 12 35	M 12 x 35	100
1800 12 40	M 12 x 40	50
1800 12 45	M 12 x 45	50
1800 12 50	M 12 x 50	50
1800 12 55	M 12 x 55	25
1800 12 60	M 12 x 60	25
1800 12 70	M 12 x 70	25
1800 12 80	M 12 x 80	25

Specifications



Thread Dia.	b mm	e mm
M 6	18	7.5
M 8	22	10.0
M 10	26	12.0
M 12	30	15.0
M 20	46	25.0

Item no.	Dimension	QTY
1800 20 60	M 20 x 60	25
1800 20 70	M 20 x 70	25
1800 20 80	M 20 x 80	25

Carriage Bolts DIN 603, DIN 4.8 Galvanized

- In compliance with ISO 8677
- With hex nut
- Standard description: Pan-head bolts with square shoulder
- Strength class 4.8
- **Galvanized steel**



Item no.	Dimension	QTY
1101 5 16	M 5 x 16	200
1101 5 20	M 5 x 20	200
1101 5 25	M 5 x 25	200
1101 5 30	M 5 x 30	200
1101 5 35	M 5 x 35	200
1101 5 40	M 5 x 40	200
1101 5 45	M 5 x 45	200
1101 5 50	M 5 x 50	200
1101 5 55	M 5 x 55	200
1101 5 60	M 5 x 60	200
1101 5 65	M 5 x 65	200
1101 5 70	M 5 x 70	200
1101 5 80	M 5 x 80	200
1101 6 16	M 6 x 16	200
1101 6 20	M 6 x 20	200
1101 6 25	M 6 x 25	200
1101 6 30	M 6 x 30	200
1101 6 35	M 6 x 35	200
1101 6 40	M 6 x 40	200
1101 6 45	M 6 x 45	200
1101 6 50	M 6 x 50	200
1101 6 55	M 6 x 55	200
1101 6 60	M 6 x 60	200
1101 6 65	M 6 x 65	200
1101 6 70	M 6 x 70	200
1101 6 75	M 6 x 75	100
1101 6 80	M 6 x 80	100
1101 6 90	M 6 x 90	100
1101 6 100	M 6 x 100	100
1101 6 110	M 6 x 110	100
1101 6 120	M 6 x 120	100
1101 6 130	M 6 x 130	100
1101 6 140	M 6 x 140	100
1101 6 150	M 6 x 150	100
1101 8 16	M 8 x 16	200
1101 8 20	M 8 x 20	200
1101 8 25	M 8 x 25	200
1101 8 30	M 8 x 30	200
1101 8 35	M 8 x 35	200
1101 8 40	M 8 x 40	200
1101 8 45	M 8 x 45	200
1101 8 50	M 8 x 50	200
1101 8 55	M 8 x 55	100
1101 8 60	M 8 x 60	100
1101 8 65	M 8 x 65	100
1101 8 70	M 8 x 70	100
1101 8 75	M 8 x 75	100
1101 8 80	M 8 x 80	100
1101 8 90	M 8 x 90	100
1101 8 100	M 8 x 100	100
1101 8 110	M 8 x 110	100
1101 8 120	M 8 x 120	100
1101 8 130	M 8 x 130	100
1101 8 140	M 8 x 140	100

Item no.	Dimension	QTY
1101 8 150	M 8 x 150	100
1101 8 160	M 8 x 160	100
1101 8 180	M 8 x 180	50
1101 8 200	M 8 x 200	50
1101 10 20	M 10 x 20	200
1101 10 25	M 10 x 25	200
1101 10 30	M 10 x 30	100
1101 10 35	M 10 x 35	100
1101 10 40	M 10 x 40	100
1101 10 45	M 10 x 45	100
1101 10 50	M 10 x 50	100
1101 10 55	M 10 x 55	100
1101 10 60	M 10 x 60	100
1101 10 65	M 10 x 65	100
1101 10 70	M 10 x 70	50
1101 10 75	M 10 x 75	50
1101 10 80	M 10 x 80	50
1101 10 90	M 10 x 90	50
1101 10 100	M 10 x 100	50
1101 10 110	M 10 x 110	50
1101 10 120	M 10 x 120	50
1101 10 130	M 10 x 130	50
1101 10 140	M 10 x 140	50
1101 10 150	M 10 x 150	50
1101 10 160	M 10 x 160	50
1101 10 170	M 10 x 170	50
1101 10 180	M 10 x 180	50
1101 10 190	M 10 x 190	25
1101 10 200	M 10 x 200	25
1101 10 220	M 10 x 220	25
1101 10 240	M 10 x 240	25
1101 10 260	M 10 x 260	25
1101 10 280	M 10 x 280	25
1101 10 300	M 10 x 300	25
1101 12 20	M 12 x 20	100
1101 12 25	M 12 x 25	100
1101 12 30	M 12 x 30	100
1101 12 35	M 12 x 35	100
1101 12 40	M 12 x 40	100
1101 12 45	M 12 x 45	50
1101 12 50	M 12 x 50	50
1101 12 55	M 12 x 55	50
1101 12 60	M 12 x 60	50
1101 12 65	M 12 x 65	50
1101 12 70	M 12 x 70	50
1101 12 80	M 12 x 80	50
1101 12 90	M 12 x 90	50
1101 12 100	M 12 x 100	50
1101 12 110	M 12 x 110	25
1101 12 120	M 12 x 120	25
1101 12 130	M 12 x 130	25
1101 12 140	M 12 x 140	25
1101 12 150	M 12 x 150	25

Specifications					
Thread	dk	k	b	b	b
Dia.			L < 125	L 125 - 200	L > 200
mm	mm	mm	mm	mm	mm
M 5	13.55	3.3	16	22	-
M 6	16.55	3.88	18	24	-
M 8	20.65	4.88	22	28	41
M 10	24.65	5.38	26	32	45
M 12	30.65	6.95	30	36	49
M 16	38.80	8.95	38	44	57

Item no.	Dimension	QTY
1101 12 160	M 12 x 160	25
1101 12 170	M 12 x 170	25
1101 12 180	M 12 x 180	25
1101 12 200	M 12 x 200	25
1101 12 220	M 12 x 220	25
1101 12 240	M 12 x 240	25
1101 12 260	M 12 x 260	25
1101 12 280	M 12 x 280	25
1101 12 300	M 12 x 300	25
1101 12 320	M 12 x 320	25
1101 16 35	M 16 x 35	25
1101 16 40	M 16 x 40	25
1101 16 45	M 16 x 45	25
1101 16 50	M 16 x 50	50
1101 16 55	M 16 x 55	25
1101 16 60	M 16 x 60	25
1101 16 70	M 16 x 70	25
1101 16 80	M 16 x 80	25
1101 16 90	M 16 x 90	25
1101 16 100	M 16 x 100	25
1101 16 110	M 16 x 110	25
1101 16 120	M 16 x 120	25
1101 16 130	M 16 x 130	25
1101 16 140	M 16 x 140	25
1101 16 150	M 16 x 150	25
1101 16 160	M 16 x 160	25
1101 16 180	M 16 x 180	25
1101 16 200	M 16 x 200	25
1101 16 220	M 16 x 220	25
1101 16 240	M 16 x 240	25
1101 16 260	M 16 x 260	25
1101 16 280	M 16 x 280	25
1101 16 300	M 16 x 300	10
1101 16 320	M 16 x 320	10
1101 16 340	M 16 x 340	10
1101 16 360	M 16 x 360	z 25
1101 16 400	M 16 x 400	10

(d thread dia. x length mm)

Wheel Lug Bolts 10.9, Galvanized

- Dacromet coated, Strength class 10.9
- **Galvanized steel**

Item no.	Dimension	QTY
1121 12 15 20	M 12 x 1,5 x 20	50

(d thread dia. x Length mm)



Plugs DIN 910, Plain Steel

- With cylindrical thread
- With collar and hex head
- Plain Steel

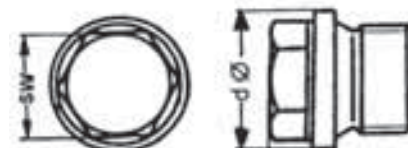


Article No.	Dimension	QTY
1130 10 1	M 10 x 1	10
1130 12 15	M 12 x 1,5	10
1130 14 15	M 14 x 1,5	10
1130 16 15	M 16 x 1,5	10
1130 18 15	M 18 x 1,5	10
1130 20 15	M 20 x 1,5	10
1130 22 15	M 22 x 1,5	10
1130 24 15	M 24 x 1,5	10
1130 26 15	M 26 x 1,5	10

(d thread dia. x length mm)

Technical Data

Thread Dia.	c	s	d2	i	l
mm	mm	mm	mm	mm	mm
M 10	3	10	14	8	17
M 12	3	13	17	12	21
M 14	3	13	19	12	21
M 16	3	17	21	12	21
M 18	4	17	23	12	24
M 20	4	19	25	14	26
M 22	4	19	27	14	26
M 24	4	22	29	14	27
M 26	4	24	31	16	30



Oil Drain Plugs

- Specially designed for the automobile industry
- Art. No. 1139 3 12: with captive sealing washer
- Art. No. 1139 3 14 1: with rubber sealing washer (2641 13)
- Art. No. 1139 4 12: with rubber sealing washer (2668 11 21)
- Art. No. 1139 4 14: with O-ring (2650 2 18)
- Art. No. 1139 5 14 1: with captive sealing washer

Article No.	Dimension	QTY
1139 1 12	M 12x1,5x18	z 25
1139 2 12	M 12x1,5x12	z 25
1139 2 14 1	M 14x1,5x24	z 25
1139 3 12	M 12x1,75x28,5	z 25
1139 3 14	M 14x1,5x16	z 25
1139 3 14 1	M 14x1,5x21	z 25
1139 4 12	M 12x1,75x21	z 25
1139 4 14	M 14x1,5x10	z 25
1139 4 14 1	M 14x1,5x12	z 25
1139 4 16	M 16x1,5x9	z 25
1139 4 18	M 18x1,5x10	z 25
1139 5 14	M 14x1,5x11	z 25
1139 5 14 1	M 14x1,5x21	z 25
1139 6 12	M 12x1,25x13	z 25

(d Thread Dia. x pitch thread x length mm)

Technical Data

Car type	Head size mm
BMW	17
Daimler-Benz	13
Daimler-Benz	13
Ford	15
Ford	13
Ford	13
Opel	15
Opel	TX 45
Opel (VW to year of constr.98)	19
Opel	22
Opel	I.-6Kt.8
VW/Audi	19
VW/Audi	19
Nissan	14



Assortment - Sump Oil Drain Plug

Article No.	Article Description	QTY
9000 1139	ASS. SUMP OIL DRAIN PLUGS	1
9000R 1139	TRAY SUMP OIL DRAIN PLUGS	1

Contents:

Article No.	Article Description	Quantity
1139 1 12	BMW OIL DRAIN PLUG 12X1.5X18	5
1139 2 12	DB OIL DRAIN PLUG 12X1.5X12	5
1139 2 14 1	DB OIL DRAIN PL. M14X1.5X24SW13	5
1139 3 14	FORD OIL DRAIN PLUG M14X1.5X16	5
1139 3 14 1	FORD OIL DRAIN PLUG M14X1.5X21	5
1139 4 14	OPEL O.DRA.PLUG M14X1.5X10TX45	5
1139 4 14 1	OPEL OIL D.PLUG M14X1.5X12SW19	5
1139 4 16	OPEL OIL DRAIN PLUG M16X1.5X9	5
1139 4 18	OPEL OIL DRAIN PLUG M8X1.5X10	5
1139 5 14	VW/AUDI OIL DR.PLUG M14X1.5X11	5
1139 5 14 1	VW/A.OIL DRAIN PLUG M14X1.5X21	5
1139 6 12	NISS.OIL DR.PL.M12X1.25X12SW14	5
2600 12 18	SEAL.RING 7603 A CO 12X18X1.5	5
2600 14 20	SEAL.RING 7603 A CO 14X20X1.5	20
2600 16 22	SEAL.RING 7603 A CO 16X22X1.5	5
2620 12 18	SEAL.RING 7603 A AL 12X18X1.5	5
2641 14	FD-SEA.RING ST/RUB.14.7X24X1.5	5
2667 11 17	NISSAN SEALING RING CU 11X17X3	5



Hex Socket Cap Screws DIN 912 8.8, Plain Steel

- In compliance with ISO 4762
- With socket head
- Strength class 8.8
- Plain Steel



Item no.	Dimension	QTY
1150 3 6	M 3 x 6	H 500
1150 3 8	M 3 x 8	H 500
1150 3 10	M 3 x 10	H 500
1150 3 12	M 3 x 12	H 500
1150 3 14	M 3 x 14	H 500
1150 3 16	M 3 x 16	H 500
1150 3 18	M 3 x 18	H 500
1150 3 20	M 3 x 20	H 500
1150 3 22	M 3 x 22	H 500
1150 3 25	M 3 x 25	H 500
1150 3 30	M 3 x 30	H 500
1150 3 35	M 3 x 35	H 500
1150 3 40	M 3 x 40	H 500
1150 3 45	M 3 x 45	H 500
1150 3 50	M 3 x 50	H 500
1150 4 6	M 4 x 6	H 500
1150 4 8	M 4 x 8	H 500
1150 4 10	M 4 x 10	H 500
1150 4 12	M 4 x 12	H 500
1150 4 14	M 4 x 14	H 500
1150 4 16	M 4 x 16	H 500
1150 4 18	M 4 x 18	H 500
1150 4 20	M 4 x 20	H 500
1150 4 25	M 4 x 25	H 500
1150 4 28	M 4 x 28	H 500
1150 4 30	M 4 x 30	H 500
1150 4 35	M 4 x 35	H 200
1150 4 40	M 4 x 40	H 200
1150 4 45	M 4 x 45	H 200
1150 4 50	M 4 x 50	H 200
1150 4 55	M 4 x 55	H 200
1150 4 60	M 4 x 60	H 200
1150 4 65	M 4 x 65	H 200
1150 4 70	M 4 x 70	H 200
1150 4 80	M 4 x 80	H 200
1150 4 100	M 4 x 100	H 200
1150 5 6	M 5 x 6	H 500
1150 5 8	M 5 x 8	H 500
1150 5 10	M 5 x 10	H 500
1150 5 12	M 5 x 12	H 500
1150 5 14	M 5 x 14	H 500
1150 5 16	M 5 x 16	H 500
1150 5 18	M 5 x 18	H 500
1150 5 20	M 5 x 20	H 500
1150 5 22	M 5 x 22	H 500
1150 5 25	M 5 x 25	H 500
1150 5 30	M 5 x 30	H 500
1150 5 35	M 5 x 35	H 200
1150 5 40	M 5 x 40	H 200
1150 5 45	M 5 x 45	H 200
1150 5 50	M 5 x 50	H 200
1150 5 55	M 5 x 55	H 200
1150 5 60	M 5 x 60	H 200
1150 5 65	M 5 x 65	H 200
1150 5 70	M 5 x 70	H 200
1150 5 75	M 5 x 75	H 200
1150 5 80	M 5 x 80	H 200
1150 5 85	M 5 x 85	H 200
1150 5 90	M 5 x 90	H 200
1150 5 100	M 5 x 100	100
1150 5 110	M 5 x 110	100
1150 5 120	M 5 x 120	100
1150 5 130	M 5 x 130	100
1150 5 140	M 5 x 140	100
1150 5 150	M 5 x 150	100
1150 5 160	M 5 x 160	100
1150 5 170	M 5 x 170	100
1150 5 180	M 5 x 180	100
1150 5 200	M 5 x 200	100

Item no.	Dimension	QTY
1150 6 8	M 6 x 8	H 500
1150 6 10	M 6 x 10	H 500
1150 6 12	M 6 x 12	H 500
1150 6 14	M 6 x 14	H 500
1150 6 16	M 6 x 16	H 500
1150 6 18	M 6 x 18	H 500
1150 6 20	M 6 x 20	H 500
1150 6 22	M 6 x 22	H 500
1150 6 25	M 6 x 25	H 500
1150 6 30	M 6 x 30	H 500
1150 6 35	M 6 x 35	H 200
1150 6 40	M 6 x 40	H 200
1150 6 45	M 6 x 45	H 200
1150 6 50	M 6 x 50	H 200
1150 6 55	M 6 x 55	H 200
1150 6 60	M 6 x 60	H 200
1150 6 65	M 6 x 65	H 200
1150 6 70	M 6 x 70	H 200
1150 6 75	M 6 x 75	H 200
1150 6 80	M 6 x 80	H 200
1150 6 85	M 6 x 85	100
1150 6 90	M 6 x 90	100
1150 6 100	M 6 x 100	100
1150 6 110	M 6 x 110	100
1150 6 120	M 6 x 120	100
1150 6 130	M 6 x 130	100
1150 6 140	M 6 x 140	100
1150 6 150	M 6 x 150	100
1150 6 160	M 6 x 160	100
1150 6 180	M 6 x 180	100
1150 6 200	M 6 x 200	100
1150 8 8	M 8 x 8	H 200
1150 8 10	M 8 x 10	H 200
1150 8 12	M 8 x 12	H 200
1150 8 14	M 8 x 14	H 200
1150 8 16	M 8 x 16	H 200
1150 8 20	M 8 x 20	H 200
1150 8 22	M 8 x 22	H 200
1150 8 25	M 8 x 25	H 200
1150 8 30	M 8 x 30	H 200
1150 8 35	M 8 x 35	H 200
1150 8 40	M 8 x 40	H 200
1150 8 45	M 8 x 45	100
1150 8 50	M 8 x 50	100
1150 8 55	M 8 x 55	100
1150 8 60	M 8 x 60	100
1150 8 65	M 8 x 65	100
1150 8 70	M 8 x 70	100
1150 8 75	M 8 x 75	100
1150 8 80	M 8 x 80	100
1150 8 85	M 8 x 85	100
1150 8 90	M 8 x 90	100
1150 8 100	M 8 x 100	100
1150 8 110	M 8 x 110	100
1150 8 120	M 8 x 120	100
1150 8 140	M 8 x 140	100
1150 8 150	M 8 x 150	100
1150 8 160	M 8 x 160	100
1150 8 170	M 8 x 170	100
1150 8 180	M 8 x 180	100
1150 8 200	M 8 x 200	100
1150 10 10	M 10 x 10	H 200
1150 10 12	M 10 x 12	H 200
1150 10 16	M 10 x 16	H 200
1150 10 18	M 10 x 18	H 200
1150 10 20	M 10 x 20	H 200
1150 10 22	M 10 x 22	H 200
1150 10 25	M 10 x 25	H 200
1150 10 30	M 10 x 30	H 200

Specifications

Thread	b	dk	k	s	t
Dia.	mm	max	max	mm	min
M 3	18	5.5	3	2.5	1.3
M 4	20	7	4	3	2.0
M 5	22	8.5	5	4	2.5
M 6	24	10	6	5	3.0
M 8	28	13	8	6	4.0
M 10	32	16	10	8	5.0
M 12	36	18	12	10	6.7
M 14	40	21	14	12	7.0
M 16	44	24	16	14	8.0
M 20	52	30	20	17	10.0
M 24	60	36	24	19	12.0

Item no.	Dimension	QTY
1150 10 35	M 10 x 35	100
1150 10 40	M 10 x 40	100
1150 10 45	M 10 x 45	100
1150 10 50	M 10 x 50	100
1150 10 55	M 10 x 55	100
1150 10 60	M 10 x 60	100
1150 10 65	M 10 x 65	100
1150 10 70	M 10 x 70	100
1150 10 75	M 10 x 75	100
1150 10 80	M 10 x 80	100
1150 10 85	M 10 x 85	100
1150 10 90	M 10 x 90	100
1150 10 95	M 10 x 95	100
1150 10 100	M 10 x 100	50
1150 10 105	M 10 x 105	50
1150 10 110	M 10 x 110	50
1150 10 120	M 10 x 120	50
1150 10 130	M 10 x 130	50
1150 10 140	M 10 x 140	50
1150 10 150	M 10 x 150	50
1150 10 160	M 10 x 160	50
1150 10 170	M 10 x 170	50
1150 10 180	M 10 x 180	50
1150 10 200	M 10 x 200	50
1150 12 16	M 12 x 16	100
1150 12 20	M 12 x 20	100
1150 12 25	M 12 x 25	100
1150 12 30	M 12 x 30	100
1150 12 35	M 12 x 35	100
1150 12 40	M 12 x 40	100
1150 12 45	M 12 x 45	100
1150 12 50	M 12 x 50	100
1150 12 55	M 12 x 55	100
1150 12 60	M 12 x 60	100
1150 12 65	M 12 x 65	50
1150 12 70	M 12 x 70	50
1150 12 75	M 12 x 75	50
1150 12 80	M 12 x 80	50
1150 12 85	M 12 x 85	50
1150 12 90	M 12 x 90	50
1150 12 95	M 12 x 95	50
1150 12 100	M 12 x 100	50
1150 12 110	M 12 x 110	50
1150 12 120	M 12 x 120	50
1150 12 130	M 12 x 130	10

Continued on next page

Hex Socket Cap Screws DIN 912 8.8, Plain Steel

- In compliance with ISO 4762
- With socket head
- Strength class 8.8
- Plain Steel



Item no.	Dimension	QTY
1150 12 140	M 12 x 140	25
1150 12 150	M 12 x 150	25
1150 12 160	M 12 x 160	25
1150 12 170	M 12 x 170	25
1150 12 180	M 12 x 180	25
1150 12 200	M 12 x 200	25
1150 12 230	M 12 x 230	25
1150 14 20	M 14 x 20	100
1150 14 25	M 14 x 25	100
1150 14 30	M 14 x 30	100
1150 14 35	M 14 x 35	100
1150 14 40	M 14 x 40	100
1150 14 45	M 14 x 45	100
1150 14 50	M 14 x 50	100
1150 14 55	M 14 x 55	100
1150 14 60	M 14 x 60	100
1150 14 65	M 14 x 65	50
1150 14 70	M 14 x 70	50
1150 14 75	M 14 x 75	50
1150 14 80	M 14 x 80	50
1150 14 90	M 14 x 90	50
1150 14 100	M 14 x 100	50
1150 14 120	M 14 x 120	50
1150 14 130	M 14 x 130	50
1150 14 140	M 14 x 140	50
1150 14 150	M 14 x 150	50
1150 14 160	M 14 x 160	50
1150 14 180	M 14 x 180	50
1150 14 200	M 14 x 200	50
1150 16 20	M 16 x 20	50
1150 16 25	M 16 x 25	50
1150 16 30	M 16 x 30	50
1150 16 35	M 16 x 35	50
1150 16 40	M 16 x 40	50
1150 16 45	M 16 x 45	50
1150 16 50	M 16 x 50	50
1150 16 55	M 16 x 55	50
1150 16 60	M 16 x 60	25
1150 16 65	M 16 x 65	25
1150 16 70	M 16 x 70	25
1150 16 75	M 16 x 75	25
1150 16 80	M 16 x 80	25
1150 16 90	M 16 x 90	25
1150 16 100	M 16 x 100	25
1150 16 110	M 16 x 110	25
1150 16 120	M 16 x 120	25
1150 16 130	M 16 x 130	25
1150 16 140	M 16 x 140	25
1150 16 150	M 16 x 150	25
1150 16 160	M 16 x 160	25
1150 16 170	M 16 x 170	25
1150 16 180	M 16 x 180	25
1150 16 200	M 16 x 200	25
1150 16 210	M 16 x 210	25
1150 16 220	M 16 x 220	25
1150 16 230	M 16 x 230	25
1150 16 240	M 16 x 240	25

Item no.	Dimension	QTY
1150 16 260	M 16 x 260	25
1150 20 30	M 20 x 30	50
1150 20 35	M 20 x 35	50
1150 20 40	M 20 x 40	50
1150 20 45	M 20 x 45	50
1150 20 50	M 20 x 50	50
1150 20 55	M 20 x 55	50
1150 20 60	M 20 x 60	50
1150 20 65	M 20 x 65	50
1150 20 70	M 20 x 70	50
1150 20 75	M 20 x 75	50
1150 20 80	M 20 x 80	50
1150 20 90	M 20 x 90	50
1150 20 100	M 20 x 100	50
1150 20 110	M 20 x 110	50
1150 20 120	M 20 x 120	25
1150 20 130	M 20 x 130	25
1150 20 140	M 20 x 140	25
1150 20 150	M 20 x 150	25
1150 20 160	M 20 x 160	25
1150 20 170	M 20 x 170	10
1150 20 180	M 20 x 180	10
1150 20 200	M 20 x 200	10
1150 20 220	M 20 x 220	10
1150 20 240	M 20 x 240	10
1150 20 260	M 20 x 260	10
1150 20 280	M 20 x 280	10
1150 20 300	M 20 x 300	10
1150 24 45	M 24 x 45	25
1150 24 50	M 24 x 50	25
1150 24 55	M 24 x 55	25
1150 24 60	M 24 x 60	25
1150 24 65	M 24 x 65	25
1150 24 70	M 24 x 70	10
1150 24 80	M 24 x 80	10
1150 24 90	M 24 x 90	10
1150 24 100	M 24 x 100	10
1150 24 110	M 24 x 110	10
1150 24 120	M 24 x 120	10
1150 24 130	M 24 x 130	10
1150 24 140	M 24 x 140	10
1150 24 150	M 24 x 150	10
1150 24 160	M 24 x 160	10
1150 24 180	M 24 x 180	10
1150 24 200	M 24 x 200	10
1150 24 220	M 24 x 220	10
1150 24 230	M 24 x 230	10
1150 24 240	M 24 x 240	10
1150 24 250	M 24 x 250	10
1150 24 260	M 24 x 260	10
1150 24 280	M 24 x 280	10
1150 24 290	M 24 x 290	10
1150 24 300	M 24 x 300	10

Specifications




d	b	dk	k	s	t
Thread-Ø		max	max		min
mm	mm	mm	mm	mm	mm
M3	18	5.5	3	2,5	1,3
M4	20	7	4	3	2,0
M5	22	8.5	5	4	2,5
M6	24	10	6	5	3,0
M8	28	13	8	6	4,0
M10	32	16	10	8	5,0
M12	36	18	12	10	6,7
M14	40	21	14	12	7,0
M16	44	24	16	14	8,0
M20	52	30	20	17	10,0
M24	60	36	24	19	12,0

(d thread dia. x length mm)

Hex Socket Cap Screws DIN 912 8.8, Plain Steel

- In compliance with ISO 4762
- With socket head
- Strength class 8.8
- Plain Steel



Item no.	Dimension	QTY
1151 3 4	M 3 x 4	H 500
1151 3 5	M 3 x 5	500
1151 3 6	M 3 x 6	H 500
1151 3 8	M 3 x 8	H 500
1151 3 10	M 3 x 10	H 500
1151 3 12	M 3 x 12	H 500
1151 3 14	M 3 x 14	500
1151 3 16	M 3 x 16	H 500
1151 3 18	M 3 x 18	H 200
1151 3 20	M 3 x 20	500
1151 3 22	M 3 x 22	500
1151 3 25	M 3 x 25	H 200
1151 3 30	M 3 x 30	H 200
1151 3 35	M 3 x 35	500
1151 3 40	M 3 x 40	H 200
1151 3 45	M 3 x 45	500
1151 3 50	M 3 x 50	500
1151 4 5	M 4 x 5	H 500
1151 4 6	M 4 x 6	H 500
1151 4 8	M 4 x 8	H 500
1151 4 10	M 4 x 10	H 500
1151 4 12	M 4 x 12	H 500
1151 4 14	M 4 x 14	H 500
1151 4 16	M 4 x 16	H 500
1151 4 18	M 4 x 18	H 500
1151 4 20	M 4 x 20	H 500
1151 4 22	M 4 x 22	H 500
1151 4 25	M 4 x 25	H 500
1151 4 30	M 4 x 30	H 500
1151 4 35	M 4 x 35	H 200
1151 4 40	M 4 x 40	H 200
1151 4 45	M 4 x 45	H 200
1151 4 50	M 4 x 50	H 200
1151 4 55	M 4 x 55	200
1151 4 60	M 4 x 60	H 200
1151 4 65	M 4 x 65	200
1151 4 70	M 4 x 70	H 200
1151 4 80	M 4 x 80	H 200
1151 5 6	M 5 x 6	H 500
1151 5 8	M 5 x 8	H 500
1151 5 10	M 5 x 10	H 500
1151 5 12	M 5 x 12	H 500
1151 5 14	M 5 x 14	H 500
1151 5 16	M 5 x 16	H 500
1151 5 18	M 5 x 18	H 500
1151 5 20	M 5 x 20	H 500
1151 5 25	M 5 x 25	H 500
1151 5 30	M 5 x 30	H 500
1151 5 35	M 5 x 35	H 200
1151 5 40	M 5 x 40	H 200
1151 5 45	M 5 x 45	H 200
1151 5 50	M 5 x 50	H 200
1151 5 55	M 5 x 55	H 200
1151 5 60	M 5 x 60	H 200
1151 5 65	M 5 x 65	H 200
1151 5 70	M 5 x 70	H 200
1151 5 75	M 5 x 75	100
1151 5 80	M 5 x 80	100
1151 5 90	M 5 x 90	100
1151 5 100	M 5 x 100	100
1151 5 110	M 5 x 110	100
1151 5 120	M 5 x 120	100
1151 5 130	M 5 x 130	100
1151 5 140	M 5 x 140	100
1151 5 150	M 5 x 150	100
1151 5 160	M 5 x 160	100
1151 5 180	M 5 x 180	100
1151 6 8	M 6 x 8	H 500
1151 6 10	M 6 x 10	H 500

(d thread dia. x length mm)

Item no.	Dimension	QTY
1151 6 12	M 6 x 12	H 500
1151 6 14	M 6 x 14	H 500
1151 6 16	M 6 x 16	H 500
1151 6 18	M 6 x 18	H 500
1151 6 20	M 6 x 20	H 500
1151 6 22	M 6 x 22	H 500
1151 6 25	M 6 x 25	H 500
1151 6 30	M 6 x 30	H 500
1151 6 35	M 6 x 35	H 200
1151 6 40	M 6 x 40	H 200
1151 6 45	M 6 x 45	H 200
1151 6 50	M 6 x 50	H 200
1151 6 55	M 6 x 55	H 200
1151 6 60	M 6 x 60	H 200
1151 6 65	M 6 x 65	H 200
1151 6 70	M 6 x 70	H 200
1151 6 75	M 6 x 75	H 200
1151 6 80	M 6 x 80	H 200
1151 6 85	M 6 x 85	H 200
1151 6 90	M 6 x 90	H 200
1151 6 100	M 6 x 100	H 200
1151 6 110	M 6 x 110	100
1151 6 120	M 6 x 120	100
1151 6 130	M 6 x 130	100
1151 6 140	M 6 x 140	100
1151 6 145	M 6 x 145	100
1151 6 150	M 6 x 150	100
1151 6 160	M 6 x 160	100
1151 6 170	M 6 x 170	100
1151 6 180	M 6 x 180	100
1151 8 10	M 8 x 10	H 200
1151 8 12	M 8 x 12	H 200
1151 8 14	M 8 x 14	200
1151 8 16	M 8 x 16	H 200
1151 8 18	M 8 x 18	H 200
1151 8 20	M 8 x 20	H 200
1151 8 22	M 8 x 22	H 200
1151 8 25	M 8 x 25	H 200
1151 8 30	M 8 x 30	H 200
1151 8 35	M 8 x 35	H 200
1151 8 40	M 8 x 40	H 200
1151 8 45	M 8 x 45	100
1151 8 50	M 8 x 50	100
1151 8 55	M 8 x 55	100
1151 8 60	M 8 x 60	100
1151 8 65	M 8 x 65	100
1151 8 70	M 8 x 70	100
1151 8 75	M 8 x 75	100
1151 8 80	M 8 x 80	100
1151 8 85	M 8 x 85	100
1151 8 90	M 8 x 90	100
1151 8 100	M 8 x 100	100
1151 8 110	M 8 x 110	100
1151 8 120	M 8 x 120	100
1151 8 130	M 8 x 130	100
1151 8 140	M 8 x 140	100
1151 8 150	M 8 x 150	100
1151 8 160	M 8 x 160	50
1151 8 180	M 8 x 180	100
1151 10 12	M 10 x 12	H 200
1151 10 16	M 10 x 16	H 200
1151 10 20	M 10 x 20	H 200
1151 10 22	M 10 x 22	200
1151 10 25	M 10 x 25	H 200
1151 10 30	M 10 x 30	H 200
1151 10 35	M 10 x 35	100
1151 10 40	M 10 x 40	100
1151 10 45	M 10 x 45	100
1151 10 50	M 10 x 50	100

Specifications

Thread	b	dk	k	s	t
Dia.	mm	max	max	mm	min
M 3	18	5.5	3	2.5	1.3
M 4	20	7.0	4	3.0	2.0
M 5	22	8.5	5	4.0	2.5
M 6	24	10.0	6	5.0	3.0
M 8	28	13.0	8	6.0	4.0
M 10	32	16.0	10	8.0	5.0
M 12	36	18.0	12	10.0	6.7
M 14	40	21.0	14	12.0	7.0
M 16	44	24.0	16	14.0	8.0
M 20	52	30.0	20	17.0	10.0

Item no.	Dimension	QTY
1151 10 55	M 10 x 55	100
1151 10 60	M 10 x 60	100
1151 10 65	M 10 x 65	100
1151 10 70	M 10 x 70	100
1151 10 75	M 10 x 75	100
1151 10 80	M 10 x 80	100
1151 10 85	M 10 x 85	100
1151 10 90	M 10 x 90	50
1151 10 100	M 10 x 100	50
1151 10 110	M 10 x 110	50
1151 10 120	M 10 x 120	50
1151 10 130	M 10 x 130	50
1151 10 140	M 10 x 140	50
1151 10 150	M 10 x 150	50
1151 10 160	M 10 x 160	50
1151 10 180	M 10 x 180	50
1151 12 16	M 12 x 16	100
1151 12 20	M 12 x 20	100
1151 12 22	M 12 x 22	100
1151 12 25	M 12 x 25	100
1151 12 30	M 12 x 30	100
1151 12 35	M 12 x 35	100
1151 12 40	M 12 x 40	100
1151 12 45	M 12 x 45	100
1151 12 50	M 12 x 50	100
1151 12 55	M 12 x 55	100
1151 12 60	M 12 x 60	100
1151 12 65	M 12 x 65	50
1151 12 70	M 12 x 70	50
1151 12 75	M 12 x 75	50
1151 12 80	M 12 x 80	50
1151 12 90	M 12 x 90	50
1151 12 100	M 12 x 100	50
1151 12 110	M 12 x 110	50
1151 12 120	M 12 x 120	50
1151 12 130	M 12 x 130	50
1151 12 140	M 12 x 140	50
1151 12 150	M 12 x 150	50
1151 12 160	M 12 x 160	25
1151 12 170	M 12 x 170	25
1151 12 180	M 12 x 180	25
1151 12 200	M 12 x 200	25
1151 14 20	M 14 x 20	100
1151 14 25	M 14 x 25	100
1151 14 30	M 14 x 30	100
1151 14 35	M 14 x 35	100
1151 14 40	M 14 x 40	100

Continued on next page

Hex Socket Cap Screws DIN 912 8.8, Plain Steel

- In compliance with ISO 4762
- With socket head
- Strength class 8.8
- Plain Steel



Item no.	Dimension	QTY
1151 14 45	M 14 x 45	100
1151 14 50	M 14 x 50	100
1151 14 60	M 14 x 60	100
1151 14 70	M 14 x 70	50
1151 14 80	M 14 x 80	50
1151 14 90	M 14 x 90	50
1151 14 100	M 14 x 100	50
1151 14 110	M 14 x 110	50
1151 14 130	M 14 x 130	50
1151 14 140	M 14 x 140	50
1151 16 20	M 16 x 20	50
1151 16 25	M 16 x 25	50
1151 16 30	M 16 x 30	50
1151 16 35	M 16 x 35	50
1151 16 40	M 16 x 40	50
1151 16 45	M 16 x 45	50
1151 16 50	M 16 x 50	50
1151 16 55	M 16 x 55	50
1151 16 60	M 16 x 60	50
1151 16 65	M 16 x 65	25
1151 16 70	M 16 x 70	25
1151 16 75	M 16 x 75	25
1151 16 80	M 16 x 80	25
1151 16 85	M 16 x 85	25

(d thread dia. x length mm)

Item no.	Dimension	QTY
1151 16 90	M 16 x 90	25
1151 16 100	M 16 x 100	25
1151 16 110	M 16 x 110	25
1151 16 120	M 16 x 120	25
1151 16 130	M 16 x 130	25
1151 16 140	M 16 x 140	25
1151 16 180	M 16 x 180	25
1151 20 30	M 20 x 30	25
1151 20 35	M 20 x 35	25
1151 20 40	M 20 x 40	25
1151 20 45	M 20 x 45	25
1151 20 50	M 20 x 50	25
1151 20 55	M 20 x 55	25
1151 20 60	M 20 x 60	25
1151 20 65	M 20 x 65	25
1151 20 70	M 20 x 70	25
1151 20 75	M 20 x 75	25
1151 20 80	M 20 x 80	25
1151 20 90	M 20 x 90	25
1151 20 100	M 20 x 100	25
1151 20 110	M 20 x 110	25
1151 20 120	M 20 x 120	25
1151 20 140	M 20 x 140	25

Specifications

Thread Dia.	b	dk max	k max	s	t min
mm	mm	mm	mm	mm	mm
M 3	18	5.5	3	2.5	1.3
M 4	20	7.0	4	3.0	2.0
M 5	22	8.5	5	4.0	2.5
M 6	24	10.0	6	5.0	3.0
M 8	28	13.0	8	6.0	4.0
M 10	32	16.0	10	8.0	5.0
M 12	36	18.0	12	10.0	6.7
M 14	40	21.0	14	12.0	7.0
M 16	44	24.0	16	14.0	8.0
M 20	52	30.0	20	17.0	10.0

Hex Socket CSK Cap Screws DIN7991 8.8, Plain Steel

- In compliance with 10462
- With countersunk head
- Strength class 8.8
- Plain Steel



Item no.	Dimension	QTY
1160 3 6	M 3 x 6	100
1160 3 8	M 3 x 8	100
1160 3 10	M 3 x 10	100
1160 3 12	M 3 x 12	100
1160 3 16	M 3 x 16	100
1160 3 25	M 3 x 25	100
1160 4 6	M 4 x 6	100
1160 4 8	M 4 x 8	100
1160 4 10	M 4 x 10	100
1160 4 12	M 4 x 12	100
1160 4 16	M 4 x 16	100
1160 4 20	M 4 x 20	100
1160 4 25	M 4 x 25	100
1160 4 30	M 4 x 30	100
1160 4 35	M 4 x 35	100
1160 4 40	M 4 x 40	100
1160 5 10	M 5 x 10	100
1160 5 12	M 5 x 12	100
1160 5 16	M 5 x 16	100
1160 5 20	M 5 x 20	100
1160 5 25	M 5 x 25	100
1160 5 30	M 5 x 30	100
1160 5 35	M 5 x 35	100
1160 5 40	M 5 x 40	100
1160 6 8	M 6 x 8	100
1160 6 10	M 6 x 10	100
1160 6 12	M 6 x 12	100
1160 6 16	M 6 x 16	100
1160 6 20	M 6 x 20	100
1160 6 25	M 6 x 25	100
1160 6 30	M 6 x 30	100
1160 6 35	M 6 x 35	100
1160 6 40	M 6 x 40	100
1160 6 50	M 6 x 50	100
1160 6 55	M 6 x 55	100

(d thread dia. x length mm)

Item no.	Dimension	QTY
1160 6 60	M 6 x 60	100
1160 6 80	M 6 x 80	100
1160 8 10	M 8 x 10	100
1160 8 12	M 8 x 12	100
1160 8 16	M 8 x 16	100
1160 8 20	M 8 x 20	100
1160 8 25	M 8 x 25	100
1160 8 30	M 8 x 30	100
1160 8 35	M 8 x 35	100
1160 8 40	M 8 x 40	100
1160 8 45	M 8 x 45	100
1160 8 50	M 8 x 50	100
1160 8 55	M 8 x 55	100
1160 8 60	M 8 x 60	100
1160 8 70	M 8 x 70	100
1160 8 80	M 8 x 80	100
1160 8 90	M 8 x 90	100
1160 10 12	M 10 x 12	200
1160 10 16	M 10 x 16	100
1160 10 20	M 10 x 20	100
1160 10 25	M 10 x 25	100
1160 10 30	M 10 x 30	100
1160 10 35	M 10 x 35	100
1160 10 40	M 10 x 40	100
1160 10 45	M 10 x 45	100
1160 10 50	M 10 x 50	100
1160 10 60	M 10 x 60	100
1160 10 70	M 10 x 70	50
1160 10 100	M 10 x 100	50
1160 12 20	M 12 x 20	100
1160 12 25	M 12 x 25	100
1160 12 30	M 12 x 30	100
1160 12 35	M 12 x 35	100
1160 12 40	M 12 x 40	100
1160 12 45	M 12 x 45	100

Specifications

Thread Dia.	b	dk max	k max	s
mm	mm	mm	mm	mm
M 3	12	6	1.7	2
M 4	14	8	2.3	2.5
M 5	16	10	2.8	3
M 6	18	12	3.3	4
M 8	22	16	4.4	5
M 10	26	20	5.5	6
M 12	30	24	6.5	8
M 16	38	30	7.5	10
M 20	46	36	8.5	12

Item no.	Dimension	QTY
1160 12 50	M 12 x 50	100
1160 12 55	M 12 x 55	100
1160 12 60	M 12 x 60	100
1160 12 70	M 12 x 70	50
1160 12 80	M 12 x 80	50
1160 12 90	M 12 x 90	50
1160 16 25	M 16 x 25	50
1160 16 30	M 16 x 30	50
1160 16 35	M 16 x 35	50
1160 16 40	M 16 x 40	50
1160 16 45	M 16 x 45	50
1160 16 50	M 16 x 50	50
1160 16 60	M 16 x 60	50
1160 16 70	M 16 x 70	25
1160 16 80	M 16 x 80	25
1160 16 100	M 16 x 100	25
1160 20 55	M 20 x 55	25
1160 20 60	M 20 x 60	25
1160 20 80	M 20 x 80	25
1160 20 100	M 20 x 100	25

Hex Socket CSK Screws DIN 7991 8.8, Zinc

- In compliance with 10462
- Countersunk head
- Strength class 8.8
- Galvanized steel

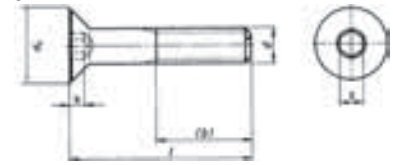


Item no.	Dimension	QTY
1161 3 4	3 x 4	H 200
1161 3 5	3 x 5	H 200
1161 3 6	M 3 x 6	100
1161 3 8	M 3 x 8	100
1161 3 10	M 3 x 10	100
1161 3 12	M 3 x 12	100
1161 3 16	M 3 x 16	100
1161 4 6	M 4 x 6	100
1161 4 8	M 4 x 8	100
1161 4 10	M 4 x 10	100
1161 4 12	M 4 x 12	100
1161 4 16	M 4 x 16	100
1161 4 20	M 4 x 20	100
1161 4 25	M 4 x 25	100
1161 4 30	M 4 x 30	100
1161 4 40	M 4 x 40	100
1161 5 8	M 5 x 8	100
1161 5 10	M 5 x 10	100
1161 5 12	M 5 x 12	100
1161 5 16	M 5 x 16	100
1161 5 20	M 5 x 20	100
1161 5 25	M 5 x 25	100
1161 5 30	M 5 x 30	100
1161 5 35	M 5 x 35	100
1161 5 40	M 5 x 40	100
1161 5 45	M 5 x 45	100
1161 5 50	M 5 x 50	100
1161 5 60	M 5 x 60	100
1161 6 8	M 6 x 8	100
1161 6 10	M 6 x 10	100
1161 6 12	M 6 x 12	100
1161 6 16	M 6 x 16	100
1161 6 20	M 6 x 20	100
1161 6 25	M 6 x 25	100
1161 6 30	M 6 x 30	100
1161 6 35	M 6 x 35	100
1161 6 40	M 6 x 40	100
1161 6 45	M 6 x 45	100
1161 6 50	M 6 x 50	100
1161 6 60	M 6 x 60	100
1161 6 70	M 6 x 70	100
1161 8 10	M 8 x 10	100
1161 8 12	M 8 x 12	100
1161 8 14	M 8 x 14	100
1161 8 16	M 8 x 16	100
1161 8 20	M 8 x 20	100
1161 8 22	M 8 x 22	100
1161 8 25	M 8 x 25	100
1161 8 30	M 8 x 30	100
1161 8 35	M 8 x 35	100

Item no.	Dimension	QTY
1161 8 40	M 8 x 40	100
1161 8 45	M 8 x 45	100
1161 8 50	M 8 x 50	100
1161 8 55	8 x 55	gf 100
1161 8 60	M 8 x 60	100
1161 8 70	M 8 x 70	100
1161 8 80	M 8 x 80	100
1161 8 90	M 8 x 90	100
1161 8 100	M 8 x 100	100
1161 8 110	8 x 110	g 50
1161 8 120	8 x 120	g 50
1161 10 12	M 10 x 12	200
1161 10 16	M 10 x 16	100
1161 10 20	M 10 x 20	100
1161 10 25	M 10 x 25	100
1161 10 30	M 10 x 30	100
1161 10 35	M 10 x 35	100
1161 10 40	M 10 x 40	100
1161 10 45	M 10 x 45	100
1161 10 50	M 10 x 50	100
1161 10 55	M 10 x 55	100
1161 10 60	M 10 x 60	100
1161 10 70	M 10 x 70	50
1161 10 80	M 10 x 80	50
1161 10 90	M 10 x 90	f 100
1161 10 100	M 10 x 100	50
1161 12 20	M 12 x 20	100
1161 12 25	M 12 x 25	100
1161 12 30	M 12 x 30	100
1161 12 35	M 12 x 35	100
1161 12 40	M 12 x 40	100
1161 12 45	M 12 x 45	100
1161 12 50	M 12 x 50	100
1161 12 60	M 12 x 60	100
1161 12 70	M 12 x 70	50
1161 12 80	M 12 x 80	50
1161 12 90	M 12 x 90	50
1161 12 100	M 12 x 100	50
1161 12 140	M 12 x 140	25
1161 16 30	M 16 x 30	50
1161 16 40	M 16 x 40	50
1161 16 45	M 16 x 45	50
1161 16 50	M 16 x 50	50
1161 16 60	M 16 x 60	50
1161 16 70	M 16 x 70	25
1161 16 80	M 16 x 80	25
1161 20 50	M 20 x 50	25
1161 20 60	M 20 x 60	25
1161 20 80	M 20 x 80	25

(d thread dia. x length mm)

Specifications



Thread	b	dk max	k max	s
Dia. mm	mm	mm	mm	mm
M 3	12	6	1.7	2
M 4	14	8	2.3	2.5
M 5	16	10	2.8	3
M 6	18	12	3.3	4
M 8	22	16	4.4	5
M 10	26	20	5.5	6
M 12	30	24	6.5	8
M 16	38	30	7.5	10
M 20	46	36	8.5	12

Flat Head Domed Socket Screw ISO 7380 10.9 - Zinc

- Strength class: 10.9
- Galvanized steel



Item no.	Dimension	QTY
1170 4 6	M 4 x 6	100
1170 4 8	M 4 x 8	100
1170 4 10	M 4 x 10	100
1170 4 12	M 4 x 12	100
1170 4 14	M 4 x 14	100
1170 4 16	M 4 x 16	100
1170 4 18	M 4 x 18	100
1170 4 20	M 4 x 20	100
1170 4 25	M 4 x 25	100
1170 4 30	M 4 x 30	100
1170 4 35	M 4 x 35	100
1170 4 40	M 4 x 40	100
1170 5 6	M 5 x 6	100
1170 5 8	M 5 x 8	100
1170 5 10	M 5 x 10	100
1170 5 12	M 5 x 12	100
1170 5 16	M 5 x 16	100
1170 5 20	M 5 x 20	100
1170 5 25	M 5 x 25	100
1170 5 30	M 5 x 30	100
1170 5 35	M 5 x 35	100
1170 5 40	M 5 x 40	100
1170 5 45	M 5 x 45	100
1170 5 50	M 5 x 50	100
1170 6 8	M 6 x 8	100
1170 6 10	M 6 x 10	100
1170 6 12	M 6 x 12	100
1170 6 14	M 6 x 14	100
1170 6 16	M 6 x 16	100
1170 6 20	M 6 x 20	100
1170 6 25	M 6 x 25	100
1170 6 30	M 6 x 30	100

(d thread dia. x length in mm)

Item no.	Dimension	QTY
1170 6 35	M 6 x 35	100
1170 6 40	M 6 x 40	100
1170 6 45	M 6 x 45	100
1170 6 50	M 6 x 50	100
1170 8 10	M 8 x 10	100
1170 8 12	M 8 x 12	100
1170 8 14	M 8 x 14	100
1170 8 16	M 8 x 16	100
1170 8 18	M 8 x 18	100
1170 8 20	M 8 x 20	100
1170 8 25	M 8 x 25	100
1170 8 30	M 8 x 30	100
1170 8 35	M 8 x 35	100
1170 8 40	M 8 x 40	100
1170 8 45	M 8 x 45	100
1170 8 50	M 8 x 50	100
1170 8 60	M 8 x 60	100
1170 10 16	M 10 x 16	100
1170 10 20	M 10 x 20	100
1170 10 25	M 10 x 25	100
1170 10 30	M 10 x 30	100
1170 10 35	M 10 x 35	100
1170 10 40	M 10 x 40	100
1170 10 45	M 10 x 45	100
1170 12 20	M 12 x 20	f 100
1170 12 25	M 12 x 25	f 100
1170 12 30	M 12 x 30	f 100
1170 12 35	M 12 x 35	f 100
1170 12 40	M 12 x 40	f 100
1170 12 45	M 12 x 45	f 100
1170 12 50	M 12 x 50	f 100

Specifications



Thread	d1	K	S
Dia.			
mm	mm	mm	mm
M 5	9.5	2.7	3
M 6	10.5	3.2	4
M 8	14.0	3.2	5

Hex Oval-head Screw, Flange ISO 7380

- Tensile strength: 10.9
- Steel zinc coated



Item no.	Dimension	QTY
1171 4 6	M 4 x 6	100
1171 4 8	M 4 x 8	100
1171 4 10	M 4 x 10	100
1171 4 12	M 4 x 12	100
1171 4 14	M 4 x 14	100
1171 4 16	M 4 x 16	100
1171 4 18	M 4 x 18	100
1171 4 20	M 4 x 20	100
1171 4 25	M 4 x 25	100
1171 4 30	M 4 x 30	100
1171 4 35	M 4 x 35	100
1171 5 6	M 5 x 6	100
1171 5 8	M 5 x 8	100
1171 5 10	M 5 x 10	100
1171 5 12	M 5 x 12	100
1171 5 14	M 5 x 14	100
1171 5 16	M 5 x 16	100
1171 5 18	M 5 x 18	100
1171 5 20	M 5 x 20	100
1171 5 25	M 5 x 25	100
1171 5 30	M 5 x 30	100
1171 5 35	M 5 x 35	100
1171 6 8	M 6 x 8	100
1171 6 10	M 6 x 10	100
1171 6 12	M 6 x 12	100
1171 6 14	M 6 x 14	100
1171 6 16	M 6 x 16	100

(d thread dia. x length in mm)

Item no.	Dimension	QTY
1171 6 18	M 6 x 18	100
1171 6 20	M 6 x 20	100
1171 6 25	M 6 x 25	100
1171 6 30	M 6 x 30	100
1171 6 35	M 6 x 35	100
1171 6 40	M 6 x 40	100
1171 6 45	M 6 x 45	100
1171 6 50	M 6 x 50	100
1171 6 55	M 6 x 55	100
1171 6 60	M 6 x 60	100
1171 8 8	M 8 x 8	100
1171 8 10	M 8 x 10	100
1171 8 12	M 8 x 12	100
1171 8 14	M 8 x 14	100
1171 8 16	M 8 x 16	100
1171 8 18	M 8 x 18	100
1171 8 20	M 8 x 20	100
1171 8 25	M 8 x 25	100
1171 8 30	M 8 x 30	100
1171 8 35	M 8 x 35	100
1171 8 40	M 8 x 40	100
1171 8 45	M 8 x 45	100
1171 8 50	M 8 x 50	100
1171 8 60	M 8 x 60	100
1171 10 25	M 10 x 25	100
1171 10 30	M 10 x 30	100
1171 10 35	M 10 x 35	100

Specifications



Thread	d1	K	S
Dia.			
mm	mm	mm	mm
M 4	9,4	2,2	2,5
M 5	11,8	2,75	3
M 6	13,6	3,3	4
M 8	17,8	4,4	5
M 10	21,9	5,5	6

Hex Socket Head Cap Screw DIN 6912 8.8 Plain Steel

- Low profile
- With flat cylindrical head and hexagon socket
- Strength class 8.8
- Plain Steel

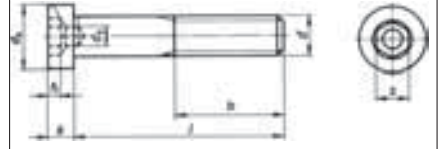


Item no.	Dimension	QTY
1180 4 6	M 4 x 6	500
1180 4 8	M 4 x 8	500
1180 4 10	M 4 x 10	500
1180 4 12	M 4 x 12	500
1180 4 16	M 4 x 16	500
1180 4 20	M 4 x 20	500
1180 4 25	M 4 x 25	500
1180 4 30	M 4 x 30	500
1180 4 35	M 4 x 35	500
1180 4 40	M 4 x 40	500
1180 5 6	M 5 x 6	500
1180 5 10	M 5 x 10	500
1180 5 12	M 5 x 12	500
1180 5 16	M 5 x 16	500
1180 5 20	M 5 x 20	500
1180 5 25	M 5 x 25	500
1180 5 30	M 5 x 30	500
1180 5 35	M 5 x 35	200
1180 5 40	M 5 x 40	200
1180 5 45	M 5 x 45	200
1180 5 50	M 5 x 50	200
1180 5 55	M 5 x 55	200
1180 5 60	M 5 x 60	200
1180 6 8	M 6 x 8	500
1180 6 10	M 6 x 10	500
1180 6 12	M 6 x 12	500
1180 6 16	M 6 x 16	500
1180 6 20	M 6 x 20	500
1180 6 22	M 6 x 22	500
1180 6 25	M 6 x 25	500
1180 6 30	M 6 x 30	500
1180 6 40	M 6 x 40	200
1180 6 45	M 6 x 45	200
1180 6 50	M 6 x 50	200
1180 6 55	M 6 x 55	200
1180 6 60	M 6 x 60	200
1180 6 70	M 6 x 70	200
1180 6 80	M 6 x 80	200
1180 6 90	M 6 x 90	200
1180 6 100	M 6 x 100	200
1180 6 110	M 6 x 110	200
1180 6 120	M 6 x 120	200
1180 8 10	M 8 x 10	200
1180 8 12	M 8 x 12	200
1180 8 14	M 8 x 14	200
1180 8 16	M 8 x 16	200
1180 8 20	M 8 x 20	200
1180 8 22	M 8 x 22	200
1180 8 25	M 8 x 25	200
1180 8 30	M 8 x 30	200
1180 8 35	M 8 x 35	200
1180 8 40	M 8 x 40	200
1180 8 45	M 8 x 45	200
1180 8 50	M 8 x 50	200
1180 8 55	M 8 x 55	200
1180 8 60	M 8 x 60	200
1180 8 70	M 8 x 70	200
1180 8 80	M 8 x 80	200
1180 8 90	M 8 x 90	200
1180 8 100	M 8 x 100	200

(d thread dia. x length mm)

Item no.	Dimension	QTY
1180 8 110	M 8 x 110	200
1180 8 120	M 8 x 120	200
1180 10 16	M 10 x 16	H 200
1180 10 20	M 10 x 20	200
1180 10 25	M 10 x 25	200
1180 10 30	M 10 x 30	100
1180 10 35	M 10 x 35	100
1180 10 40	M 10 x 40	100
1180 10 45	M 10 x 45	100
1180 10 50	M 10 x 50	100
1180 10 55	M 10 x 55	100
1180 10 60	M 10 x 60	100
1180 10 65	M 10 x 65	100
1180 10 70	M 10 x 70	100
1180 10 80	M 10 x 80	100
1180 10 90	M 10 x 90	100
1180 10 100	M 10 x 100	100
1180 10 110	M 10 x 110	100
1180 10 120	M 10 x 120	100
1180 10 130	M 10 x 130	100
1180 10 140	M 10 x 140	100
1180 12 20	M 12 x 20	100
1180 12 25	M 12 x 25	100
1180 12 30	M 12 x 30	100
1180 12 35	M 12 x 35	100
1180 12 40	M 12 x 40	100
1180 12 45	M 12 x 45	100
1180 12 50	M 12 x 50	100
1180 12 55	M 12 x 55	100
1180 12 60	M 12 x 60	100
1180 12 70	M 12 x 70	50
1180 12 80	M 12 x 80	50
1180 12 90	M 12 x 90	50
1180 12 100	M 12 x 100	50
1180 12 110	M 12 x 110	50
1180 12 120	M 12 x 120	50
1180 12 130	M 12 x 130	50
1180 12 140	M 12 x 140	50
1180 12 150	M 12 x 150	50
1180 12 160	M 12 x 160	50
1180 16 25	M 16 x 25	50
1180 16 30	M 16 x 30	50
1180 16 35	M 16 x 35	50
1180 16 40	M 16 x 40	50
1180 16 45	M 16 x 45	50
1180 16 50	M 16 x 50	50
1180 16 55	M 16 x 55	50
1180 16 60	M 16 x 60	50
1180 16 65	M 16 x 65	50
1180 16 70	M 16 x 70	25
1180 16 80	M 16 x 80	25
1180 16 90	M 16 x 90	25
1180 16 100	M 16 x 100	25
1180 16 110	M 16 x 110	25
1180 16 120	M 16 x 120	25
1180 16 130	M 16 x 130	25
1180 16 140	M 16 x 140	25
1180 16 150	M 16 x 150	25
1180 16 160	M 16 x 160	25

Specifications



Thread	Head size	dh min.	dk max.	k max.	t1 min.	b
Dia. mm	mm	mm	mm	mm	mm	mm
M 4	3	2	7	2.80	1.48	14
M 5	4	2.5	8.5	3.50	1.88	16
M 6	5	3	10	4.00	2.38	18
M 8	6	4	13	5.00	2.88	22
M 10	8	5	16	6.50	3.35	26
M 12	10	6	18	7.50	3.85	30
M 16	14	8	24	10.00	5.35	38

Socket Head Cap Screws DIN6912 8.8, Galvanized

- With flat cylindrical head and hexagon socket
- Strength class 8.8
- Galvanized steel



Item no.	Dimension	QTY
1181 4 8	M 4 x 8	500
1181 4 10	M 4 x 10	500
1181 4 12	M 4 x 12	500
1181 4 16	M 4 x 16	500
1181 4 20	M 4 x 20	500
1181 4 25	M 4 x 25	500
1181 4 30	M 4 x 30	500
1181 4 35	M 4 x 35	500
1181 4 40	M 4 x 40	500
1181 5 6	M 5 x 6	500
1181 5 10	M 5 x 10	500
1181 5 12	M 5 x 12	500
1181 5 16	M 5 x 16	500
1181 5 20	M 5 x 20	500
1181 5 25	M 5 x 25	500
1181 5 30	M 5 x 30	500
1181 5 35	M 5 x 35	200
1181 5 40	M 5 x 40	200
1181 5 45	M 5 x 45	200
1181 5 50	M 5 x 50	200
1181 5 60	M 5 x 60	200
1181 6 10	M 6 x 10	500
1181 6 12	M 6 x 12	500
1181 6 16	M 6 x 16	500
1181 6 20	M 6 x 20	500
1181 6 25	M 6 x 25	500
1181 6 30	M 6 x 30	500
1181 6 35	M 6 x 35	200
1181 6 40	M 6 x 40	200
1181 6 45	M 6 x 45	200
1181 6 50	M 6 x 50	200
1181 6 55	M 6 x 55	200
1181 6 60	M 6 x 60	200
1181 6 70	M 6 x 70	200
1181 8 12	M 8 x 12	200
1181 8 16	M 8 x 16	200
1181 8 20	M 8 x 20	200
1181 8 25	M 8 x 25	200
1181 8 30	M 8 x 30	200
1181 8 35	M 8 x 35	200
1181 8 40	M 8 x 40	200
1181 8 45	M 8 x 45	200
1181 8 50	M 8 x 50	g 200

(d thread Dia. x length mm)

Item no.	Dimension	QTY
1181 8 55	M 8 x 55	200
1181 8 60	M 8 x 60	200
1181 8 70	M 8 x 70	200
1181 8 80	M 8 x 80	200
1181 8 90	M 8 x 90	100
1181 8 100	M 8 x 100	50
1181 10 16	M 10 x 16	200
1181 10 20	M 10 x 20	200
1181 10 25	M 10 x 25	200
1181 10 30	M 10 x 30	100
1181 10 35	M 10 x 35	100
1181 10 40	M 10 x 40	100
1181 10 45	M 10 x 45	100
1181 10 50	M 10 x 50	100
1181 10 55	M 10 x 55	100
1181 10 60	M 10 x 60	100
1181 10 70	M 10 x 70	100
1181 10 80	M 10 x 80	100
1181 10 90	M 10 x 90	100
1181 10 100	M 10 x 100	25
1181 12 20	M 12 x 20	100
1181 12 25	M 12 x 25	100
1181 12 30	M 12 x 30	100
1181 12 35	M 12 x 35	100
1181 12 40	M 12 x 40	100
1181 12 45	M 12 x 45	100
1181 12 50	M 12 x 50	100
1181 12 60	M 12 x 60	100
1181 12 70	M 12 x 70	50
1181 12 80	M 12 x 80	50
1181 12 90	M 12 x 90	50
1181 12 100	M 12 x 100	25
1181 16 25	M 16 x 25	50
1181 16 30	M 16 x 30	50
1181 16 35	M 16 x 35	50
1181 16 40	M 16 x 40	50
1181 16 45	M 16 x 45	50
1181 16 50	M 16 x 50	50
1181 16 60	M 16 x 60	50
1181 16 70	M 16 x 70	50
1181 16 80	M 16 x 80	50
1181 16 90	M 16 x 90	50
1181 16 100	M 16 x 100	25

Specifications



Thread	Head	dh	dk	k	t1	b
Dia.	size	min.	max.	max.	min.	
mm	mm	mm	mm	mm	mm	mm
M 4	3	2	7	2.80	1.48	14
M 5	4	2.5	8.5	3.50	1.88	16
M 6	5	3	10	4.00	2.38	18
M 8	6	4	13	5.00	2.88	22
M 10	8	5	16	6.50	3.35	26
M 12	10	6	18	7.50	3.85	30
M 16	14	8	24	10.00	5.35	38

Slotted Cheese Head Screws DIN 84 4.8, Galvanized

- In compliance with ISO 1207
- Strength class 4.8
- Galvanized steel

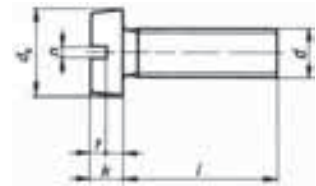


Item no.	Dimension	QTY
1201 2 4	M 2 x 4	200
1201 2 5	M 2 x 5	200
1201 2 6	M 2 x 6	200
1201 2 8	M 2 x 8	200
1201 2 10	M 2 x 10	200
1201 2 12	M 2 x 12	200
1201 2 16	M 2 x 16	200
1201 2 20	M 2 x 20	200
1201 25 3	M 2,5 x 3	200
1201 25 4	M 2,5 x 4	200
1201 25 5	M 2,5 x 5	200
1201 25 6	M 2,5 x 6	200
1201 25 8	M 2,5 x 8	200
1201 25 10	M 2,5 x 10	200
1201 25 12	M 2,5 x 12	200
1201 25 16	M 2,5 x 16	200
1201 25 20	M 2,5 x 20	200
1201 25 25	M 2,5 x 25	200
1201 3 4	M 3 x 4	200
1201 3 5	M 3 x 5	HR 500
1201 3 6	M 3 x 6	HR 500
1201 3 8	M 3 x 8	HR 500
1201 3 10	M 3 x 10	HR 500
1201 3 12	M 3 x 12	HR 500
1201 3 16	M 3 x 16	HR 500
1201 3 18	M 3 x 18	HR 500
1201 3 20	M 3 x 20	HR 500
1201 3 25	M 3 x 25	HR 500
1201 3 30	M 3 x 30	HR 500
1201 3 35	M 3 x 35	HR 500
1201 3 40	M 3 x 40	HR 500
1201 3 45	M 3 x 45	HR 500
1201 3 50	M 3 x 50	HR 500
1201 3 60	M 3 x 60	200
1201 4 4	M 4 x 4	HR 500
1201 4 5	M 4 x 5	HR 500
1201 4 6	M 4 x 6	HR 500
1201 4 8	M 4 x 8	HR 500
1201 4 10	M 4 x 10	HR 500
1201 4 12	M 4 x 12	HR 500
1201 4 16	M 4 x 16	HR 500
1201 4 20	M 4 x 20	HR 500
1201 4 25	M 4 x 25	HR 500
1201 4 30	M 4 x 30	HR 500

(d thread dia. x length mm)

Item no.	Dimension	QTY
1201 4 35	M 4 x 35	HR 500
1201 4 40	M 4 x 40	HR 500
1201 4 45	M 4 x 45	HR 500
1201 4 50	M 4 x 50	HR 500
1201 4 55	M 4 x 55	HR 500
1201 4 60	M 4 x 60	100
1201 4 70	M 4 x 70	100
1201 4 80	M 4 x 80	100
1201 4 90	M 4 x 90	100
1201 4 100	M 4 x 100	100
1201 5 6	M 5 x 6	HR 500
1201 5 8	M 5 x 8	HR 500
1201 5 10	M 5 x 10	HR 500
1201 5 12	M 5 x 12	HR 500
1201 5 16	M 5 x 16	HR 500
1201 5 18	M 5 x 18	HR 500
1201 5 20	M 5 x 20	HR 500
1201 5 25	M 5 x 25	HR 500
1201 5 30	M 5 x 30	HR 500
1201 5 35	M 5 x 35	HR 500
1201 5 40	M 5 x 40	HR 500
1201 5 45	M 5 x 45	HR 500
1201 5 50	M 5 x 50	HR 500
1201 5 55	M 5 x 55	400
1201 5 60	M 5 x 60	H 300
1201 5 65	M 5 x 65	H 300
1201 5 70	M 5 x 70	H 300
1201 5 80	M 5 x 80	H 300
1201 5 90	M 5 x 90	100
1201 5 100	M 5 x 100	100
1201 6 6	M 6 x 6	HR 500
1201 6 8	M 6 x 8	HR 500
1201 6 10	M 6 x 10	HR 500
1201 6 12	M 6 x 12	HR 500
1201 6 16	M 6 x 16	HR 500
1201 6 18	M 6 x 18	HR 500
1201 6 20	M 6 x 20	HR 500
1201 6 25	M 6 x 25	HR 500
1201 6 30	M 6 x 30	HR 500
1201 6 35	M 6 x 35	HR 500
1201 6 40	M 6 x 40	HR 500
1201 6 45	M 6 x 45	HR 500
1201 6 50	M 6 x 50	HR 500
1201 6 55	M 6 x 55	H 300

Specifications



Thread	dk	k	n	t
Dia.	mm	mm	max.	min.
M 2	3.8	1.3	0.70	0.60
M 2.5	4.5	1.6	0.80	0.70
M 3	5.5	2.0	1.00	0.85
M 4	7.0	2.6	1.51	1.10
M 5	8.5	3.3	1.51	1.30
M 6	10.0	3.9	1.91	1.60
M 8	13.0	5.0	2.31	2.00
M 10	16.0	6.0	2.81	2.40

Item no.	Dimension	QTY
1201 6 60	M 6 x 60	H 300
1201 6 65	M 6 x 65	H 300
1201 6 70	M 6 x 70	H 300
1201 6 80	M 6 x 80	H 300
1201 6 90	M 6 x 90	100
1201 6 100	M 6 x 100	100
1201 8 10	M 8 x 10	100
1201 8 12	M 8 x 12	100
1201 8 16	M 8 x 16	100
1201 8 20	M 8 x 20	HR 500
1201 8 25	M 8 x 25	HR 500
1201 8 30	M 8 x 30	HR 500
1201 8 35	M 8 x 35	HR 500
1201 8 40	M 8 x 40	HR 500
1201 8 45	M 8 x 45	HR 500
1201 8 50	M 8 x 50	HR 500
1201 8 60	M 8 x 60	H 300
1201 8 70	M 8 x 70	100
1201 8 80	M 8 x 80	100
1201 8 100	M 8 x 100	100
1201 10 20	M 10 x 20	100
1201 10 25	M 10 x 25	100
1201 10 30	M 10 x 30	100
1201 10 40	M 10 x 40	100

Slotted Cheese HD Screws DIN84, Galvan. Assortment

- M4x10 - M6x25 = 1.150 pieces

Item no.	Item description	QTY
9000 1201	ASS.SLT CHEESE HD SCREWS 84 GA1	
9000R 1201	TRAY SLT.CHEESE HD SCR.84 GALV 1	



Slotted Cheese Head Screws DIN 84 4.8, Brass Plain

- In compliance with ISO 1207
- With slot
- Strength class 4.8
- Plain brass

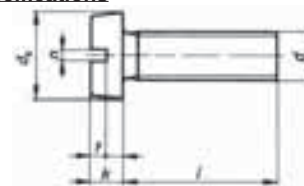


Item no.	Dimension	QTY
1207 2 6	M 2 x 6	500
1207 2 10	M 2 x 10	500
1207 3 6	M 3 x 6	500
1207 3 8	M 3 x 8	500
1207 3 10	M 3 x 10	HR 500
1207 3 12	M 3 x 12	HR 500
1207 3 16	M 3 x 16	HR 500
1207 3 20	M 3 x 20	HR 500
1207 3 25	M 3 x 25	HR 500
1207 3 30	M 3 x 30	HR 500
1207 3 50	M 3 x 50	HR 500
1207 4 6	M 4 x 6	HR 500
1207 4 8	M 4 x 8	HR 500
1207 4 10	M 4 x 10	HR 500
1207 4 12	M 4 x 12	HR 500
1207 4 16	M 4 x 16	HR 500
1207 4 20	M 4 x 20	HR 500
1207 4 25	M 4 x 25	HR 500
1207 4 30	M 4 x 30	HR 500
1207 4 35	M 4 x 35	100
1207 4 40	M 4 x 40	100
1207 4 50	M 4 x 50	100
1207 5 6	M 5 x 6	500
1207 5 8	M 5 x 8	500
1207 5 10	M 5 x 10	HR 500

(thread dia. x length mm)

Item no.	Dimension	QTY
1207 5 12	M 5 x 12	HR 500
1207 5 16	M 5 x 16	HR 500
1207 5 20	M 5 x 20	HR 500
1207 5 25	M 5 x 25	HR 500
1207 5 30	M 5 x 30	HR 500
1207 5 35	M 5 x 35	HR 500
1207 5 40	M 5 x 40	HR 500
1207 5 50	M 5 x 50	HR 500
1207 5 60	M 5 x 60	HR 500
1207 6 10	M 6 x 10	HR 500
1207 6 12	M 6 x 12	HR 500
1207 6 16	M 6 x 16	HR 500
1207 6 20	M 6 x 20	HR 500
1207 6 25	M 6 x 25	HR 500
1207 6 30	M 6 x 30	HR 500
1207 6 35	M 6 x 35	HR 500
1207 6 40	M 6 x 40	HR 500
1207 6 50	M 6 x 50	100
1207 6 60	M 6 x 60	100
1207 8 20	M 8 x 20	50
1207 8 25	M 8 x 25	50
1207 8 30	M 8 x 30	50
1207 8 40	M 8 x 40	50
1207 8 50	M 8 x 50	50

Specifications



Thread	dk	k	n	t
Dia.			max.	min.
mm	mm	mm	mm	mm
M 2	3.8	1.3	0.70	0.60
M 3	5.5	2.0	1.00	0.85
M 4	7.0	2.6	1.51	1.10
M 5	8.5	3.3	1.51	1.30
M 6	10.0	3.9	1.91	1.60
M 8	13.0	5.0	2.31	2.00

Slotted CSK Head Screws DIN 963 4.8, Galvanized

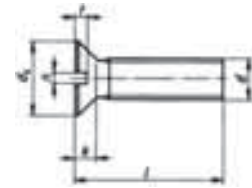
- In compliance with ISO 2009
- With slot
- Strength class 4.8
- Galvanized steel



Item no.	Dimension	QTY
1211 2 5	M 2 x 5	500
1211 2 6	M 2 x 6	500
1211 2 8	M 2 x 8	500
1211 2 10	M 2 x 10	500
1211 2 12	M 2 x 12	500
1211 2 16	M 2 x 16	500
1211 2 20	M 2 x 20	500
1211 25 6	M 2,5 x 6	500
1211 25 10	M 2,5 x 10	500
1211 25 12	M 2,5 x 12	500
1211 25 16	M 2,5 x 16	500
1211 25 20	M 2,5 x 20	500
1211 3 4	M 3 x 4	500
1211 3 5	M 3 x 5	200
1211 3 6	M 3 x 6	HR 500
1211 3 8	M 3 x 8	HR 500
1211 3 10	M 3 x 10	HR 500
1211 3 12	M 3 x 12	HR 500
1211 3 16	M 3 x 16	HR 500
1211 3 20	M 3 x 20	HR 500
1211 3 25	M 3 x 25	HR 500
1211 3 30	M 3 x 30	HR 500
1211 3 35	M 3 x 35	HR 500
1211 3 40	M 3 x 40	HR 500
1211 3 45	M 3 x 45	500
1211 3 50	M 3 x 50	500
1211 3 60	M 3 x 60	500
1211 4 5	M 4 x 5	500
1211 4 6	M 4 x 6	HR 500
1211 4 8	M 4 x 8	HR 500
1211 4 10	M 4 x 10	HR 500
1211 4 12	M 4 x 12	HR 500
1211 4 16	M 4 x 16	HR 500
1211 4 20	M 4 x 20	HR 500
1211 4 25	M 4 x 25	HR 500
1211 4 30	M 4 x 30	HR 500
1211 4 35	M 4 x 35	HR 500
1211 4 40	M 4 x 40	HR 500
1211 4 45	M 4 x 45	HR 500
1211 4 50	M 4 x 50	HR 500
1211 4 60	M 4 x 60	100
1211 4 70	M 4 x 70	100
1211 4 80	M 4 x 80	100
1211 5 6	M 5 x 6	HR 500
1211 5 8	M 5 x 8	HR 500
1211 5 10	M 5 x 10	HR 500
1211 5 12	M 5 x 12	HR 500
1211 5 16	M 5 x 16	HR 500
1211 5 18	M 5 x 18	HR 500
1211 5 20	M 5 x 20	HR 500
1211 5 25	M 5 x 25	HR 500
1211 5 30	M 5 x 30	HR 500
1211 5 35	M 5 x 35	HR 500
1211 5 40	M 5 x 40	HR 500
1211 5 45	M 5 x 45	HR 500
1211 5 50	M 5 x 50	HR 500
1211 5 55	M 5 x 55	H 300
1211 5 60	M 5 x 60	H 300
1211 5 70	M 5 x 70	H 300
1211 5 80	M 5 x 80	H 300

Item no.	Dimension	QTY
1211 5 90	M 5 x 90	100
1211 5 100	M 5 x 100	100
1211 6 8	M 6 x 8	HR 500
1211 6 10	M 6 x 10	HR 500
1211 6 12	M 6 x 12	HR 500
1211 6 16	M 6 x 16	HR 500
1211 6 20	M 6 x 20	HR 500
1211 6 25	M 6 x 25	HR 500
1211 6 30	M 6 x 30	HR 500
1211 6 35	M 6 x 35	HR 500
1211 6 40	M 6 x 40	HR 500
1211 6 45	M 6 x 45	HR 500
1211 6 50	M 6 x 50	HR 500
1211 6 55	M 6 x 55	H 300
1211 6 60	M 6 x 60	H 300
1211 6 70	M 6 x 70	H 300
1211 6 80	M 6 x 80	H 300
1211 6 90	M 6 x 90	100
1211 6 100	M 6 x 100	100
1211 8 10	M 8 x 10	HR 500
1211 8 12	M 8 x 12	HR 500
1211 8 16	M 8 x 16	HR 500
1211 8 20	M 8 x 20	HR 500
1211 8 25	M 8 x 25	HR 500
1211 8 30	M 8 x 30	HR 500
1211 8 35	M 8 x 35	HR 500
1211 8 40	M 8 x 40	HR 500
1211 8 45	M 8 x 45	H 300
1211 8 50	M 8 x 50	H 300
1211 8 55	M 8 x 55	f 100
1211 8 60	M 8 x 60	f 100
1211 8 70	M 8 x 70	f 100
1211 8 80	M 8 x 80	f 100
1211 8 90	M 8 x 90	f 100
1211 8 100	M 8 x 100	f 100
1211 10 16	M 10 x 16	fH 300
1211 10 20	M 10 x 20	fH 300
1211 10 25	M 10 x 25	fH 300
1211 10 30	M 10 x 30	fH 300
1211 10 35	M 10 x 35	fH 300
1211 10 40	M 10 x 40	fH 300
1211 10 45	M 10 x 45	fH 300
1211 10 50	M 10 x 50	f 100
1211 10 60	M 10 x 60	f 100
1211 10 70	M 10 x 70	50
1211 10 80	M 10 x 80	50
1211 10 90	M 10 x 90	50
1211 10 100	M 10 x 100	50
1211 12 20	M 12 x 20	f 100
1211 12 25	M 12 x 25	f 100
1211 12 30	M 12 x 30	f 100
1211 12 35	M 12 x 35	f 100
1211 12 40	M 12 x 40	f 100
1211 12 50	M 12 x 50	f 100
1211 12 60	M 12 x 60	f 100
1211 12 70	M 12 x 70	50
1211 12 80	M 12 x 80	50
1211 12 90	M 12 x 90	50
1211 12 100	M 12 x 100	50

Specifications



Thread	dk	k	n	t
Dia.	max.	max.		max.
mm	mm	mm	mm	mm
M 2	3.8	1.20	0.50	0.60
M 2.5	4.7	1.50	0.60	0.70
M 3	5.6	1.65	0.80	0.85
M 3.5	6.5	1.93	0.80	1.00
M 4	7.5	2.20	1.00	1.10
M 5	9.2	2.50	1.20	1.30
M 6	11.0	3.00	1.60	1.60
M 8	14.5	4.00	2.00	2.10
M 10	18.0	5.00	2.50	2.60
M 12	22.0	6.00	3.00	3.00

(d thread dia. x length mm)

Flat Head Screws DIN 7985 4.8 Galvanized



- In compliance with ISO 7045
- With Phillips head
- Strength class 4.8
- Galvanized steel

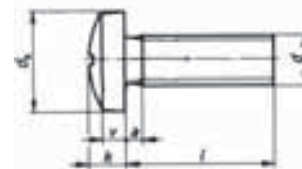


Item no.	Dimension	QTY
1231 2 6	M 2 x 6	200
1231 2 8	M 2 x 8	200
1231 2 10	M 2 x 10	200
1231 2 12	M 2 x 12	200
1231 25 4	M 2,5 x 4	200
1231 25 5	M 2,5 x 5	200
1231 25 6	M 2,5 x 6	200
1231 25 8	M 2,5 x 8	200
1231 25 10	M 2,5 x 10	200
1231 25 12	M 2,5 x 12	200
1231 25 16	M 2,5 x 16	200
1231 25 20	M 2,5 x 20	200
1231 3 4	M 3 x 4	HR 500
1231 3 5	M 3 x 5	HR 500
1231 3 6	M 3 x 6	HR 500
1231 3 8	M 3 x 8	HR 500
1231 3 10	M 3 x 10	HR 500
1231 3 12	M 3 x 12	HR 500
1231 3 16	M 3 x 16	HR 500
1231 3 20	M 3 x 20	HR 500
1231 3 25	M 3 x 25	HR 500
1231 3 30	M 3 x 30	HR 500
1231 3 35	M 3 x 35	200
1231 3 40	M 3 x 40	500
1231 3 45	M 3 x 45	500
1231 4 5	M 4 x 5	HR 500
1231 4 6	M 4 x 6	HR 500
1231 4 8	M 4 x 8	HR 500
1231 4 10	M 4 x 10	HR 500
1231 4 12	M 4 x 12	HR 500
1231 4 16	M 4 x 16	HR 500
1231 4 20	M 4 x 20	HR 500
1231 4 25	M 4 x 25	HR 500
1231 4 30	M 4 x 30	HR 500
1231 4 35	M 4 x 35	HR 500
1231 4 40	M 4 x 40	HR 500
1231 4 45	M 4 x 45	HR 500
1231 4 50	M 4 x 50	HR 500
1231 4 60	M 4 x 60	H 300
1231 4 80	M 4 x 80	100

(d thread dia. x length mm)

Item no.	Dimension	QTY
1231 5 6	M 5 x 6	HR 500
1231 5 8	M 5 x 8	HR 500
1231 5 10	M 5 x 10	HR 500
1231 5 12	M 5 x 12	HR 500
1231 5 16	M 5 x 16	HR 500
1231 5 20	M 5 x 20	HR 500
1231 5 25	M 5 x 25	HR 500
1231 5 30	M 5 x 30	HR 500
1231 5 35	M 5 x 35	HR 500
1231 5 40	M 5 x 40	HR 500
1231 5 45	M 5 x 45	HR 500
1231 5 50	M 5 x 50	HR 500
1231 5 60	M 5 x 60	200
1231 5 70	M 5 x 70	100
1231 5 80	M 5 x 80	100
1231 6 8	M 6 x 8	HR 500
1231 6 10	M 6 x 10	HR 500
1231 6 12	M 6 x 12	HR 500
1231 6 16	M 6 x 16	HR 500
1231 6 20	M 6 x 20	HR 500
1231 6 25	M 6 x 25	HR 500
1231 6 30	M 6 x 30	HR 500
1231 6 35	M 6 x 35	HR 500
1231 6 40	M 6 x 40	HR 500
1231 6 45	M 6 x 45	HR 500
1231 6 50	M 6 x 50	HR 500
1231 6 60	M 6 x 60	100
1231 6 70	M 6 x 70	100
1231 6 80	M 6 x 80	100
1231 8 12	M 8 x 12	HR 500
1231 8 16	M 8 x 16	HR 500
1231 8 20	M 8 x 20	HR 500
1231 8 25	M 8 x 25	HR 500
1231 8 30	M 8 x 30	HR 500
1231 8 35	M 8 x 35	HR 500
1231 8 40	M 8 x 40	HR 500
1231 8 45	M 8 x 45	100
1231 8 60	M 8 x 60	100
1231 8 80	M 8 x 80	100

Specifications



Thread	a	dk	k	v	Drive
Dia.	max.	max.			PH
mm	mm	mm	mm	mm	
M 2	0.8	4	1.6	1.1	1
M 3	1.0	6	2.4	1.6	1
M 4	1.4	8	3.1	2.0	2
M 5	1.6	10	3.8	2.5	2
M 6	2.0	12	4.6	3.0	3
M 8	2.5	16	6.0	3.7	4

Flat Head Screws DIN 7985, Galvanized, Assortment

- M4x10 - M6x25 = 950 pieces

Item no.	Item description	QTY
9000 1231	ASS PH.HD SCREWS 7985 GALVANA.	1
9000R 1231	TRAY PH.HD MACH.SCREWS 7985 GA	1



Countersunk Head Screws DIN 965 4.8, Galvanized

- In compliance with ISO 7046
- With Phillips head
- Strength class 4.8
- Galvanized steel



Item no.	Dimension	QTY
1241 2 6	M 2 x 6	500
1241 2 8	M 2 x 8	1000
1241 2 16	M 2 x 16	500
1241 25 5	M 2,5 x 5	500
1241 25 6	M 2,5 x 6	500
1241 25 8	M 2,5 x 8	500
1241 25 10	M 2,5 x 10	500
1241 25 12	M 2,5 x 12	500
1241 25 16	M 2,5 x 16	500
1241 25 20	M 2,5 x 20	500
1241 3 4	M 3 x 4	HR 500
1241 3 5	M 3 x 5	HR 500
1241 3 6	M 3 x 6	HR 500
1241 3 8	M 3 x 8	HR 500
1241 3 10	M 3 x 10	HR 500
1241 3 12	M 3 x 12	HR 500
1241 3 16	M 3 x 16	HR 500
1241 3 20	M 3 x 20	HR 500
1241 3 25	M 3 x 25	HR 500
1241 3 30	M 3 x 30	HR 500
1241 3 40	M 3 x 40	RF 1000
1241 4 6	M 4 x 6	HR 500
1241 4 8	M 4 x 8	HR 500
1241 4 10	M 4 x 10	HR 500
1241 4 12	M 4 x 12	HR 500
1241 4 16	M 4 x 16	HR 500
1241 4 20	M 4 x 20	HR 500
1241 4 25	M 4 x 25	HR 500
1241 4 30	M 4 x 30	HR 500
1241 4 35	M 4 x 35	HR 500
1241 4 40	M 4 x 40	HR 500
1241 4 45	M 4 x 45	HR 500
1241 4 50	M 4 x 50	HR 500
1241 4 60	M 4 x 60	100
1241 4 70	M 4 x 70	100
1241 4 80	M 4 x 80	100
1241 5 8	M 5 x 8	HR 500
1241 5 10	M 5 x 10	HR 500
1241 5 12	M 5 x 12	HR 500
1241 5 16	M 5 x 16	HR 500

Item no.	Dimension	QTY
1241 5 20	M 5 x 20	HR 500
1241 5 25	M 5 x 25	HR 500
1241 5 30	M 5 x 30	HR 500
1241 5 35	M 5 x 35	HR 500
1241 5 40	M 5 x 40	HR 500
1241 5 45	M 5 x 45	HR 500
1241 5 50	M 5 x 50	HR 500
1241 5 55	M 5 x 55	100
1241 5 60	M 5 x 60	100
1241 5 80	M 5 x 80	100
1241 6 10	M 6 x 10	HR 500
1241 6 12	M 6 x 12	HR 500
1241 6 16	M 6 x 16	HR 500
1241 6 20	M 6 x 20	HR 500
1241 6 25	M 6 x 25	HR 500
1241 6 30	M 6 x 30	HR 500
1241 6 35	M 6 x 35	HR 500
1241 6 40	M 6 x 40	HR 500
1241 6 45	M 6 x 45	HR 500
1241 6 50	M 6 x 50	HR 500
1241 6 60	M 6 x 60	100
1241 6 70	M 6 x 70	100
1241 6 80	M 6 x 80	100
1241 8 16	M 8 x 16	HR 500
1241 8 20	M 8 x 20	HR 500
1241 8 25	M 8 x 25	HR 500
1241 8 30	M 8 x 30	HR 500
1241 8 35	M 8 x 35	HR 500
1241 8 40	M 8 x 40	HR 500
1241 8 50	M 8 x 50	HR 500
1241 8 55	M 8 x 55	100
1241 8 60	M 8 x 60	100
1241 8 70	M 8 x 70	100
1241 8 80	M 8 x 80	100
1241 8 90	M 8 x 90	100
1241 10 30	M 10 x 30	100
1241 10 35	M 10 x 35	200
1241 10 45	M 10 x 45	100
1241 10 50	M 10 x 50	100

Specifications



Thread	dk	k	Drive
Dia.	max.	max.	PH
mm	mm	mm	
M 2	3.8	1.20	1
M 2.5	4.7	1.50	1
M 3	5.6	1.65	1
M 4	7.5	2.20	2
M 5	9.2	2.50	2
M 6	11.0	3.00	3
M 8	14.5	4.00	4
M 10	18.0	5.00	4

(d thread dia. x length mm)

Cross Recess.Counters.HD Screw DIN965, Zinc Plated

- M4x10 - M6x25 = 1000 pieces

Item no.	Item description	QTY
9000 1241	ASS.PH CSK SCREWS 965 GA	1
9000R 1241	TRAY PH CSK SCREWS DIN 965 GA.	1



Raised Counters. Head Screw DIN 966 4.8, Galv.



- In compliance with ISO 7047
- With Phillips head
- Strength class 4.8
- Galvanized steel

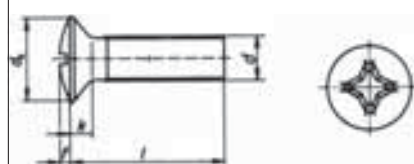


Item no.	Dimension	QTY
1251 3 6	M 3 x 6	500
1251 3 8	M 3 x 8	500
1251 3 10	M 3 x 10	500
1251 3 12	M 3 x 12	500
1251 3 16	M 3 x 16	500
1251 3 20	M 3 x 20	500
1251 3 25	M 3 x 25	500
1251 3 30	M 3 x 30	500
1251 4 6	M 4 x 6	HR 500
1251 4 8	M 4 x 8	HR 500
1251 4 10	M 4 x 10	HR 500
1251 4 12	M 4 x 12	HR 500
1251 4 16	M 4 x 16	HR 500
1251 4 20	M 4 x 20	HR 500
1251 4 25	M 4 x 25	HR 500
1251 4 30	M 4 x 30	HR 500
1251 4 35	M 4 x 35	WR 500
1251 4 40	M 4 x 40	HR 500
1251 4 45	M 4 x 45	500
1251 4 50	M 4 x 50	100
1251 4 60	M 4 x 60	500
1251 5 8	M 5 x 8	HR 500
1251 5 10	M 5 x 10	HR 500
1251 5 12	M 5 x 12	HR 500
1251 5 16	M 5 x 16	HR 500
1251 5 20	M 5 x 20	HR 500
1251 5 25	M 5 x 25	HR 500
1251 5 30	M 5 x 30	HR 500
1251 5 35	M 5 x 35	HR 500
1251 5 40	M 5 x 40	HR 500

Item no.	Dimension	QTY
1251 5 45	M 5 x 45	R 500
1251 5 50	M 5 x 50	HR 500
1251 5 60	M 5 x 60	HR 500
1251 6 10	M 6 x 10	HR 500
1251 6 12	M 6 x 12	HR 500
1251 6 16	M 6 x 16	HR 500
1251 6 20	M 6 x 20	HR 500
1251 6 25	M 6 x 25	HR 500
1251 6 30	M 6 x 30	HR 500
1251 6 35	M 6 x 35	HR 500
1251 6 40	M 6 x 40	HR 500
1251 6 45	M 6 x 45	HR 500
1251 6 50	M 6 x 50	HR 500
1251 6 60	M 6 x 60	100
1251 6 70	M 6 x 70	100
1251 6 80	M 6 x 80	100
1251 8 16	M 8 x 16	HR 500
1251 8 20	M 8 x 20	HR 500
1251 8 25	M 8 x 25	HR 500
1251 8 30	M 8 x 30	HR 500
1251 8 35	M 8 x 35	HR 500
1251 8 40	M 8 x 40	HR 500
1251 8 50	M 8 x 50	100
1251 8 55	M 8 x 55	100
1251 8 60	M 8 x 60	100
1251 8 65	M 8 x 65	100
1251 8 70	M 8 x 70	100
1251 8 75	M 8 x 75	100
1251 8 80	M 8 x 80	100

(d thread dia. x length mm)

Specifications



Thread	dk	f	k	Drive
Dia.	max.	mm	max.	PH
mm	mm	mm	mm	
M 3	5.6	0.75	1.65	1
M 4	7.5	1.00	2.20	2
M 5	9.2	1.25	2.50	2
M 6	11.0	1.50	3.00	3
M 8	14.5	2.00	4.00	4

Wing Screw DIN 316 4.8, Zinc Coating

- Strength class 4.8
- Galvanized steel

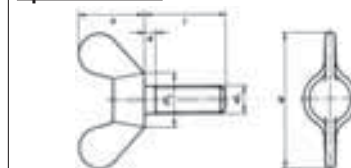


Artikel-Nr.	Dimension	VPE
1831 4 10	M 4 x 10	100
1831 4 16	M 4 x 16	100
1831 4 20	M 4 x 20	100
1831 4 25	M 4 x 25	100
1831 4 30	M 4 x 30	100
1831 5 10	M 5 x 10	100
1831 5 16	M 5 x 16	100
1831 5 20	M 5 x 20	100
1831 5 25	M 5 x 25	100
1831 5 30	M 5 x 30	100
1831 5 35	M 5 x 35	100
1831 5 40	M 5 x 40	100
1831 6 10	M 6 x 10	100
1831 6 12	M 6 x 12	100
1831 6 16	M 6 x 16	100
1831 6 20	M 6 x 20	100
1831 6 25	M 6 x 25	100
1831 6 30	M 6 x 30	100
1831 6 35	M 6 x 35	100
1831 6 40	M 6 x 40	100

(d thread dia. x length mm)

Artikel-Nr.	Dimension	QTY
1831 6 50	M 6 x 50	100
1831 8 10	M 8 x 10	100
1831 8 12	M 8 x 12	100
1831 8 16	M 8 x 16	100
1831 8 20	M 8 x 20	100
1831 8 25	M 8 x 25	100
1831 8 30	M 8 x 30	100
1831 8 35	M 8 x 35	50
1831 8 40	M 8 x 40	50
1831 8 50	M 8 x 50	50
1831 8 60	M 8 x 60	50
1831 10 16	M 10 x 16	50
1831 10 20	M 10 x 20	50
1831 10 25	M 10 x 25	50
1831 10 30	M 10 x 30	50
1831 10 35	M 10 x 35	50
1831 10 40	M 10 x 40	50
1831 10 50	M 10 x 50	50
1831 10 60	M 10 x 60	50
1831 12 25	M 12 x 25	25

Specifications



d1	e	h	m	d2
Gew.-Ø	max.	max.	max.	max.
mm	mm	mm	mm	mm
M 4	4.7	0.60	1.5	8
M 5	5.6	0.75	1.65	11
M 6	7.5	1.00	2.20	13
M 8	9.2	1.25	2.50	16
M 10	11.0	1.50	3.00	20
M 12	14.5	2.00	4.00	23

Sheet Metal Screw DIN 7976, Galvanized Steel

- In compliance with ISO 1479
- Hardened
- Galvanized steel

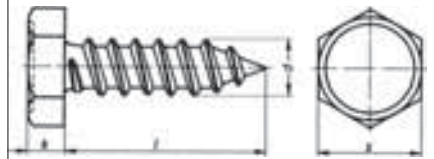


Item no.	Dimension	QTY
1301 39 13	3,9 x 13	1000
1301 39 19	3,9 x 19	1000
1301 42 13	4,2 x 13	HR 500
1301 42 16	4,2 x 16	HR 500
1301 42 19	4,2 x 19	HR 500
1301 42 22	4,2 x 22	HR 500
1301 42 25	4,2 x 25	HR 500
1301 48 13	4,8 x 13	HR 500
1301 48 16	4,8 x 16	HR 500
1301 48 19	4,8 x 19	HR 500
1301 48 22	4,8 x 22	HR 500
1301 48 25	4,8 x 25	HR 500
1301 48 32	4,8 x 32	HR 500
1301 48 50	4,8 x 50	HR 500
1301 55 13	5,5 x 13	HR 500
1301 55 16	5,5 x 16	HR 500
1301 55 19	5,5 x 19	HR 500
1301 55 22	5,5 x 22	HR 500

(d thread Dia. x length mm)

Item no.	Dimension	QTY
1301 55 25	5,5 x 25	HR 500
1301 55 32	5,5 x 32	HR 500
1301 55 50	5,5 x 50	R 500
1301 63 13	6,3 x 13	HR 500
1301 63 16	6,3 x 16	HR 500
1301 63 19	6,3 x 19	HR 500
1301 63 22	6,3 x 22	HR 500
1301 63 25	6,3 x 25	HR 500
1301 63 32	6,3 x 32	HR 500
1301 63 38	6,3 x 38	HR 500
1301 63 45	6,3 x 45	HR 500
1301 63 50	6,3 x 50	HR 500
1301 8 16	8 x 16	H 300
1301 8 19	8 x 19	H 300
1301 8 25	8 x 25	H 300
1301 8 32	8 x 32	H 300
1301 8 38	8 x 38	H 300

Specifications



Thread Dia.	k	s (WS)
mm	mm	mm
3.9	2.3	7
4.2	2.8	7
4.8	3.0	8
5.5	4.0	8
6.3	4.8	10
8.0	5.8	13

Sheet Metal Screw with Washer, Galvanized Steel

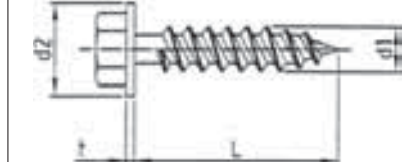
- With hex head captive washer
- Galvanized steel
- Corrosion resistant



Item no.	Dimension	QTY
1302 42 13	4,2 x 13	HR 500
1302 48 13	4,8 x 13	HR 500
1302 48 16	4,8 x 16	HR 500
1302 48 19	4,8 x 19	HR 500
1302 56 13	5,6 x 13	HR 500
1302 56 16	5,6 x 16	HR 500
1302 56 19	5,6 x 19	HR 500
1302 63 16	6,3 x 16	HR 500
1302 63 19	6,3 x 19	HR 500
1302 65 16	6,5 x 16	HR 500
1302 65 20	6,5 x 20	HR 500

(d thread-Ø x length mm)

Specifications



d1 Thread-Ø	d2	t	s SW
mm	mm	mm	mm
4.2	12.0	1.0	7
4.8	15.0	1.6	8
5.6	15.0	1.6	8
6.3	22.0	1.6	10
6.3	18.0	1.6	10
6.5	18.0	1.6	10

Ass: Sheet Metal Screw with Washer, Galv. Steel

- 4.2 x 13 to 6.5 x 20 = 450 pieces

Item no.	Item description	QTY
9000 1302	ASS.HEX HD SH.MET.SCR.W.CAP.WA	1
9000R 1302	TRAY HEX HD SH.MET.SC.W.CAP.WA	1



Oval Head Sheet Metal Screws DIN 7981, Galvanized

- In compliance with ISO 7049
- With Phillips head
- Hardened
- Galvanized steel

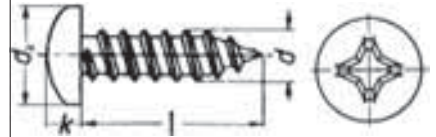


Item no.	Dimension	QTY
1311 22 65	2,2 x 6,5	HR 500
1311 22 95	2,2 x 9,5	HR 500
1311 22 13	2,2 x 13	HR 500
1311 29 65	2,9 x 6,5	H 300
1311 29 95	2,9 x 9,5	HR 500
1311 29 13	2,9 x 13	HR 500
1311 29 16	2,9 x 16	HR 500
1311 29 19	2,9 x 19	HR 500
1311 29 22	2,9 x 22	HR 500
1311 29 25	2,9 x 25	HR 500
1311 35 65	3,5 x 6,5	H 300
1311 35 95	3,5 x 9,5	HR 500
1311 35 13	3,5 x 13	HR 500
1311 35 16	3,5 x 16	HR 500
1311 35 19	3,5 x 19	HR 500
1311 35 22	3,5 x 22	HR 500
1311 35 25	3,5 x 25	HR 500
1311 35 32	3,5 x 32	HR 500
1311 35 38	3,5 x 38	HR 500
1311 39 65	3,9 x 6,5	HR 500
1311 39 95	3,9 x 9,5	HR 500
1311 39 13	3,9 x 13	HR 500
1311 39 16	3,9 x 16	HR 500
1311 39 19	3,9 x 19	HR 500
1311 39 22	3,9 x 22	HR 500
1311 39 25	3,9 x 25	HR 500
1311 39 32	3,9 x 32	HR 500
1311 39 38	3,9 x 38	HR 500
1311 42 95	4,2 x 9,5	HR 500
1311 42 13	4,2 x 13	HR 500
1311 42 16	4,2 x 16	HR 500
1311 42 19	4,2 x 19	HR 500
1311 42 22	4,2 x 22	HR 500
1311 42 25	4,2 x 25	HR 500
1311 42 32	4,2 x 32	HR 500
1311 42 38	4,2 x 38	HR 500
1311 42 45	4,2 x 45	HR 500
1311 42 50	4,2 x 50	HR 500
1311 42 60	4,2 x 60	100
1311 42 70	4,2 x 70	100
1311 48 95	4,8 x 9,5	HR 500

(d thread dia. x length mm)

Item no.	Dimension	QTY
1311 48 13	4,8 x 13	HR 500
1311 48 16	4,8 x 16	HR 500
1311 48 19	4,8 x 19	HR 500
1311 48 22	4,8 x 22	HR 500
1311 48 25	4,8 x 25	HR 500
1311 48 32	4,8 x 32	HR 500
1311 48 38	4,8 x 38	HR 500
1311 48 45	4,8 x 45	HR 500
1311 48 50	4,8 x 50	HR 500
1311 48 60	4,8 x 60	100
1311 48 70	4,8 x 70	100
1311 48 80	4,8 x 80	100
1311 48 90	4,8 x 90	100
1311 48 100	4,8 x 100	100
1311 55 13	5,5 x 13	HR 500
1311 55 16	5,5 x 16	HR 500
1311 55 19	5,5 x 19	HR 500
1311 55 22	5,5 x 22	HR 500
1311 55 25	5,5 x 25	HR 500
1311 55 32	5,5 x 32	HR 500
1311 55 38	5,5 x 38	HR 500
1311 55 45	5,5 x 45	HR 500
1311 55 50	5,5 x 50	HR 500
1311 55 60	5,5 x 60	100
1311 55 70	5,5 x 70	100
1311 55 80	5,5 x 80	100
1311 63 13	6,3 x 13	HR 500
1311 63 16	6,3 x 16	HR 500
1311 63 19	6,3 x 19	HR 500
1311 63 22	6,3 x 22	HR 500
1311 63 25	6,3 x 25	HR 500
1311 63 32	6,3 x 32	HR 500
1311 63 38	6,3 x 38	HR 500
1311 63 45	6,3 x 45	HR 500
1311 63 50	6,3 x 50	HR 500
1311 63 60	6,3 x 60	100
1311 63 70	6,3 x 70	100
1311 63 80	6,3 x 80	100
1311 63 90	6,3 x 90	100
1311 63 100	6,3 x 100	100
1311 63 120	6,3 x 120	100

Specifications



Thread	dk	k	PH
Dia.	max.	max.	Drive
mm	mm	mm	
2,2	4.2	1.80	1
2.9	5.6	2.20	1
3.5	6.9	2.60	2
3.9	7.5	2.80	2
4.2	8.2	3.05	2
4.8	9.5	3.55	2
5.5	10.8	3.95	3
6.3	12.5	4.55	3

Sheet Metal Screws DIN7981, Galvanized, Assortment

- 2.9x9.5 – 4.8x25 = 1.700 pieces

Item no.	Item description	QTY
9000 1311	ASS.SHEET METAL SCREWS 7981 GA	1
9000R 1311	TRAY SHEET METAL SCREWS7981 GA	1



Oval Head Sheet Metal Screws DIN7981, Black Galv.

- With Phillips head
- Black galvanized steel

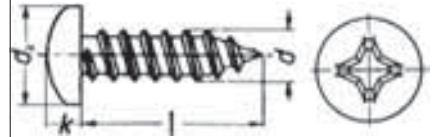


Item no.	Dimension	QTY
1313 29 95	2,9 x 9,5	HRF 1000
1313 29 13	2,9 x 13	HRF 1000
1313 29 16	2,9 x 16	HRF 1000
1313 29 19	2,9 x 19	HRF 1000
1313 29 22	2,9 x 22	HRF 1000
1313 35 95	3,5 x 9,5	HRF 1000
1313 35 13	3,5 x 13	HRF 1000
1313 35 16	3,5 x 16	HRF 1000
1313 35 19	3,5 x 19	HRF 1000
1313 35 22	3,5 x 22	HRF 1000
1313 35 25	3,5 x 25	HRF 1000
1313 35 32	3,5 x 32	HRF 1000
1313 39 95	3,9 x 9,5	HRF 1000
1313 39 13	3,9 x 13	HRF 1000
1313 39 16	3,9 x 16	HRF 1000
1313 39 19	3,9 x 19	HRF 1000
1313 39 22	3,9 x 22	HRF 1000
1313 39 25	3,9 x 25	HRF 1000
1313 39 32	3,9 x 32	HRF 1000
1313 39 38	3,9 x 38	HRF 1000
1313 42 95	4,2 x 9,5	HRF 1000

(d thread dia. x length mm)

Item no.	Dimension	QTY
1313 42 13	4,2 x 13	HRF 1000
1313 42 16	4,2 x 16	HRF 1000
1313 42 19	4,2 x 19	HRF 1000
1313 42 22	4,2 x 22	HRF 1000
1313 42 25	4,2 x 25	HRF 1000
1313 42 32	4,2 x 32	HRF 1000
1313 42 38	4,2 x 38	HRF 1000
1313 48 95	4,8 x 9,5	HRF 1000
1313 48 13	4,8 x 13	HRF 1000
1313 48 16	4,8 x 16	HRF 1000
1313 48 19	4,8 x 19	HRF 1000
1313 48 22	4,8 x 22	HRF 1000
1313 48 25	4,8 x 25	HRF 1000
1313 48 32	4,8 x 32	HRF 1000
1313 48 38	4,8 x 38	HR 500
1313 55 13	5,5 x 13	HR 500
1313 55 16	5,5 x 16	HR 500
1313 55 19	5,5 x 19	HR 500
1313 55 25	5,5 x 25	HR 500
1313 55 32	5,5 x 32	HR 500
1313 55 38	5,5 x 38	HR 500

Specifications



Thread Dia.	dk max.	k max.	Drive PH
mm	mm	mm	
2.9	5.6	2.20	1
3.5	6.9	2.60	2
3.9	7.5	2.80	2
4.2	8.2	3.05	2
4.8	9.5	3.55	2
5.5	10.8	3.95	3

Oval Head Sheet Metal Screws DIN 7981, Black Galv.

- 2.9x9.5 - 4.8x25 = 1.700 pieces

Item no.	Item description	QTY
9000 1313	ASS SHEET METAL SCRE.7981 BGA	1
9000R 1313	TRAY SHEET METAL SCR.7981 BGA	1



Sheet Metal Screws Similar to DIN7981, Black Galv.

- With Phillips head
- Black galvanized steel, 12μ

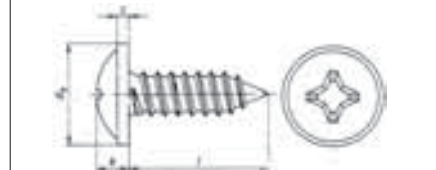


Item no.	Dimension	QTY
1318 35 95	3,5 x 9,5	HR 500
1318 35 13	3,5 x 13	HR 500
1318 35 16	3,5 x 16	HR 500
1318 35 19	3,5 x 19	HR 500
1318 35 22	3,5 x 22	HR 500
1318 39 95	3,9 x 9,5	HR 500
1318 39 13	3,9 x 13	HR 500
1318 39 16	3,9 x 16	HR 500
1318 39 19	3,9 x 19	HR 500
1318 39 22	3,9 x 22	HR 500
1318 39 25	3,9 x 25	HR 500
1318 42 95	4,2 x 9,5	HR 500

(d thread dia. x length mm)

Item no.	Dimension	QTY
1318 42 13	4,2 x 13	HR 500
1318 42 16	4,2 x 16	HR 500
1318 42 19	4,2 x 19	HR 500
1318 42 22	4,2 x 22	HR 500
1318 42 25	4,2 x 25	HR 500
1318 48 95	4,8 x 9,5	HR 500
1318 48 13	4,8 x 13	HR 500
1318 48 16	4,8 x 16	HR 500
1318 48 19	4,8 x 19	HR 500
1318 48 22	4,8 x 22	HR 500
1318 48 25	4,8 x 25	HR 500

Specifications



Thread Dia.	PH Drive	dk max.	k max.	c max.
mm		mm	mm	mm
3.5	2	9.0	2.60	0.90
3.9	2	10.0	2.80	1.10
4.2	2	10.0	3.05	1.10
4.8	2	11.5	3.55	1.35

Sheet Metal Screws Similar to DIN7981, Black Galv.

- 3.5x9.5 - 4.8x25 = 1,650 pieces

Item no.	Item description	QTY
9000 1318	ASS SHEET METAL SCREWS BGA 1	
9000R 1318	TRAY SHEET METAL SCREWS BGA1	



Sheet Met. Screw TX Flat Rais. HD Sim. DIN7981 BGA

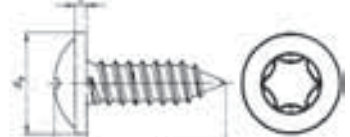
- With Torx drive
- Steel, black galvanized 12 µ



Item no.	Dimension	QTY
1317 35 16	3,5 x 16	100
1317 35 19	3,5 x 19	100
1317 39 13	3,9 x 13	100
1317 39 16	3,9 x 16	100
1317 39 19	3,9 x 19	100
1317 42 16	4,2 x 16	100

Item no.	Dimension	QTY
1317 42 19	4,2 x 19	100
1317 42 25	4,2 x 25	100
1317 48 16	4,8 x 16	100
1317 48 19	4,8 x 19	100
1317 48 22	4,8 x 22	100
1317 48 25	4,8 x 25	100

Specifications



Thread	Drive	dk	k	c
Dia.		max.	max.	max.
mm		mm	mm	mm
3.5	2	9.0	2.60	0.90
3.9	2	10.0	2.80	1.10
4.2	2	10.0	3.05	1.10
4.8	2	11.5	3.55	1.35

Sheet Met. Screw Fl. Raised HD with Drill. Tip BGA

- With Phillips head
- Steel, black galvanized

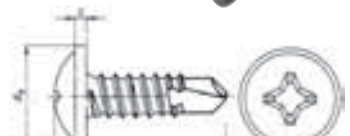


Item no.	Dimension	QTY
1319 42 13	4,2 x 13	HR 500
1319 42 16	4,2 x 16	HR 500
1319 42 19	4,2 x 19	HR 500
1319 42 25	4,2 x 25	HR 500
1319 42 32	4,2 x 32	HR 500

(d thread dia. x length mm)

Item no.	Dimension	QTY
1319 48 13	4,8 x 13	HR 500
1319 48 16	4,8 x 16	HR 500
1319 48 19	4,8 x 19	HR 500
1319 48 22	4,8 x 22	HR 500
1319 48 32	4,8 x 32	HR 500

Specifications



Thread	Drive	dk	k	c
Dia.	PH	max.	max.	max.
mm		mm	mm	mm
4.2	2	10.0	3.05	1.10
4.8	2	11.5	3.55	1.35

Sheet Metal Screws with CSK Head DIN7982, Galv.

- In compliance with ISO 7050
- With Phillips head
- Hardenend
- Galvanized steel

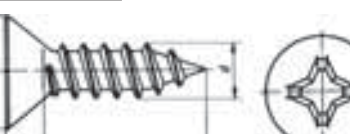


Item no.	Dimension	QTY
1321 22 13	2,2 x 13	HRF 1000
1321 29 95	2,9 x 9,5	HRF 1000
1321 29 13	2,9 x 13	HRF 1000
1321 29 16	2,9 x 16	HRF 1000
1321 29 19	2,9 x 19	HRF 1000
1321 29 22	2,9 x 22	HRF 1000
1321 29 25	2,9 x 25	HRF 1000
1321 35 95	3,5 x 9,5	HRF 1000
1321 35 13	3,5 x 13	HRF 1000
1321 35 16	3,5 x 16	HRF 1000
1321 35 19	3,5 x 19	HRF 1000
1321 35 22	3,5 x 22	HRF 1000
1321 35 25	3,5 x 25	HRF 1000
1321 35 32	3,5 x 32	HRF 1000
1321 35 38	3,5 x 38	HRF 1000
1321 39 13	3,9 x 13	HRF 1000
1321 39 16	3,9 x 16	HRF 1000
1321 39 19	3,9 x 19	HRF 1000
1321 39 22	3,9 x 22	HRF 1000
1321 39 25	3,9 x 25	HRF 1000
1321 39 32	3,9 x 32	HRF 1000
1321 39 38	3,9 x 38	HRF 1000
1321 39 45	3,9 x 45	HRF 1000
1321 39 50	3,9 x 50	HRF 1000
1321 39 60	3,9 x 60	HRF 1000
1321 42 13	4,2 x 13	HRF 1000
1321 42 16	4,2 x 16	HRF 1000
1321 42 19	4,2 x 19	HRF 1000
1321 42 22	4,2 x 22	HRF 1000
1321 42 25	4,2 x 25	HRF 1000
1321 42 32	4,2 x 32	HRF 1000

(d thread dia. x length mm)

Item no.	Dimension	QTY
1321 42 38	4,2 x 38	HRF 1000
1321 42 45	4,2 x 45	HRF 1000
1321 42 50	4,2 x 50	HRF 1000
1321 42 70	4,2 x 70	HRF 1000
1321 48 13	4,8 x 13	HRF 1000
1321 48 16	4,8 x 16	HRF 1000
1321 48 19	4,8 x 19	HRF 1000
1321 48 22	4,8 x 22	HRF 1000
1321 48 25	4,8 x 25	HRF 1000
1321 48 32	4,8 x 32	HRF 1000
1321 48 38	4,8 x 38	HR 500
1321 48 45	4,8 x 45	HRF 1000
1321 48 50	4,8 x 50	100
1321 48 60	4,8 x 60	100
1321 48 70	4,8 x 70	100
1321 48 80	4,8 x 80	100
1321 48 90	4,8 x 90	100
1321 48 100	4,8 x 100	100
1321 55 13	5,5 x 13	HR 500
1321 55 16	5,5 x 16	HR 500
1321 55 19	5,5 x 19	HR 500
1321 55 22	5,5 x 22	HR 500
1321 55 25	5,5 x 25	HR 500
1321 55 32	5,5 x 32	HR 500
1321 55 38	5,5 x 38	HR 500
1321 55 45	5,5 x 45	HR 500
1321 55 50	5,5 x 50	HR 500
1321 55 60	5,5 x 60	HR 500
1321 55 70	5,5 x 70	HR 500
1321 55 80	5,5 x 80	HR 500
1321 55 90	5,5 x 90	HR 500

Specifications



Thread	dk	k	PH
Dia.	max.	mm	Drive
mm	mm	mm	
2.2	4.3	1.3	1
2.9	5.5	1.7	1
3.5	6.8	2.1	2
3.9	7.5	2.3	2
4.2	8.1	2.5	2
4.8	9.5	3.0	2
5.5	10.8	3.4	3
6.3	12.4	3.8	3

Item no.	Dimension	QTY
1321 63 16	6,3 x 16	HR 500
1321 63 19	6,3 x 19	HR 500
1321 63 22	6,3 x 22	HR 500
1321 63 25	6,3 x 25	HR 500
1321 63 32	6,3 x 32	HR 500
1321 63 38	6,3 x 38	f 100
1321 63 45	6,3 x 45	100
1321 63 50	6,3 x 50	100
1321 63 60	6,3 x 60	100
1321 63 70	6,3 x 70	100
1321 63 90	6,3 x 90	100

Sheet Metal Screws with Oval Head DIN7983, Galvan.

- In compliance with ISO 7051
- With Phillips head
- Hardened
- Galvanized steel



Item no.	Dimension	QTY
1331 29 95	2,9 x 9,5	HRF 1000
1331 29 13	2,9 x 13	HRF 1000
1331 29 16	2,9 x 16	HRF 1000
1331 29 19	2,9 x 19	HRF 1000
1331 29 22	2,9 x 22	HRF 1000
1331 29 25	2,9 x 25	HRF 1000
1331 35 95	3,5 x 9,5	HRF 1000
1331 35 13	3,5 x 13	HRF 1000
1331 35 16	3,5 x 16	HRF 1000
1331 35 19	3,5 x 19	HRF 1000
1331 35 22	3,5 x 22	HRF 1000
1331 35 25	3,5 x 25	HRF 1000
1331 35 32	3,5 x 32	HRF 1000
1331 35 38	3,5 x 38	HRF 1000
1331 39 95	3,9 x 9,5	HRF 1000
1331 39 13	3,9 x 13	HRF 1000
1331 39 16	3,9 x 16	HRF 1000
1331 39 19	3,9 x 19	HRF 1000
1331 39 22	3,9 x 22	HRF 1000
1331 39 25	3,9 x 25	HRF 1000
1331 39 32	3,9 x 32	HRF 1000
1331 39 38	3,9 x 38	HRF 1000
1331 39 45	3,9 x 45	HRF 1000
1331 42 95	4,2 x 9,5	HRF 1000
1331 42 13	4,2 x 13	HRF 1000
1331 42 16	4,2 x 16	HRF 1000
1331 42 19	4,2 x 19	HRF 1000

(d thread dia. x length mm)

Item no.	Dimension	QTY
1331 42 22	4,2 x 22	HRF 1000
1331 42 25	4,2 x 25	HRF 1000
1331 42 32	4,2 x 32	HRF 1000
1331 42 38	4,2 x 38	HRF 1000
1331 42 45	4,2 x 45	HRF 1000
1331 42 50	4,2 x 50	HRF 1000
1331 48 95	4,8 x 9,5	HRF 1000
1331 48 13	4,8 x 13	HRF 1000
1331 48 16	4,8 x 16	HRF 1000
1331 48 19	4,8 x 19	HRF 1000
1331 48 22	4,8 x 22	HRF 1000
1331 48 25	4,8 x 25	HRF 1000
1331 48 32	4,8 x 32	HRF 1000
1331 48 38	4,8 x 38	HR 500
1331 48 45	4,8 x 45	HR 500
1331 48 50	4,8 x 50	HR 500
1331 55 13	5,5 x 13	HR 500
1331 55 16	5,5 x 16	HR 500
1331 55 19	5,5 x 19	HR 500
1331 55 22	5,5 x 22	HR 500
1331 55 25	5,5 x 25	HR 500
1331 55 32	5,5 x 32	HR 500
1331 55 38	5,5 x 38	HR 500
1331 55 45	5,5 x 45	HR 500
1331 55 50	5,5 x 50	HR 500
1331 63 16	6,3 x 16	HR 500
1331 63 19	6,3 x 19	HR 500

Specifications				
Thread Dia.	dk max.	f	k	Drive PH
mm	mm	mm	mm	
2.2	4.3	0.7	1.3	1
2.9	5.5	0.9	1.7	1
3.5	6.8	1.2	2.1	2
3.9	7.5	1.3	2.3	2
4.2	8.1	1.4	2.5	2
4.8	9.5	1.5	3.0	2
5.5	10.8	1.7	3.4	3
6.3	12.4	2.0	3.8	3

Item no.	Dimension	QTY
1331 63 22	6,3 x 22	HR 500
1331 63 25	6,3 x 25	HR 500
1331 63 32	6,3 x 32	HR 500
1331 63 38	6,3 x 38	HR 500
1331 63 45	6,3 x 45	HR 500
1331 63 50	6,3 x 50	HR 500

Sheet Metal Screws DIN7981/7983, Galvan., Assortm.

- 2.9x13 - 4.8x25 = 1,700 pieces

Item no.	Item description	QTY
9000 1331	ASS.PH SH.MET.SCREWS 7983 GALV	1
9000R 1331	TRAY PH SH.MET.SCREWS 7983 GAL	1



PH / Counters.Tapping Screws DIN 7981/7983, Zi

- 3.5x9.5-4.8x22 = 1,600 pieces

Item no.	Item description	QTY
9000 131	ASS.SH.MET.SCREWS 7981/7983 GA	1
9000R 131	TRAY SH.MET.SCREW.7981/7983 GA	1



Sheet Metal Screws w. Oval HD DIN7983, Black Galv.

- In compliance with ISO 7051
- With Phillips head
- Black galvanized steel

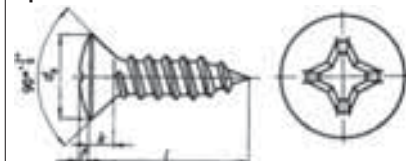


Item no.	Dimension	QTY
1333 29 95	2,9 x 9,5	HRF 1000
1333 29 13	2,9 x 13	HRF 1000
1333 29 16	2,9 x 16	HRF 1000
1333 29 19	2,9 x 19	HRF 1000
1333 29 22	2,9 x 22	HRF 1000
1333 29 25	2,9 x 25	HRF 1000
1333 35 95	3,5 x 9,5	HRF 1000
1333 35 13	3,5 x 13	HRF 1000
1333 35 16	3,5 x 16	HRF 1000
1333 35 19	3,5 x 19	HRF 1000
1333 35 22	3,5 x 22	HRF 1000
1333 35 25	3,5 x 25	HRF 1000
1333 35 38	3,5 x 38	HRF 1000
1333 39 13	3,9 x 13	HRF 1000
1333 39 16	3,9 x 16	HRF 1000
1333 39 19	3,9 x 19	HRF 1000
1333 39 22	3,9 x 22	HRF 1000
1333 39 25	3,9 x 25	HRF 1000
1333 39 32	3,9 x 32	HRF 1000
1333 42 13	4,2 x 13	HRF 1000

(d thread dia. x length mm)

Item no.	Dimension	QTY
1333 42 16	4,2 x 16	HRF 1000
1333 42 19	4,2 x 19	HRF 1000
1333 42 22	4,2 x 22	HRF 1000
1333 42 25	4,2 x 25	HRF 1000
1333 42 32	4,2 x 32	HRF 1000
1333 42 38	4,2 x 38	HRF 1000
1333 42 50	4,2 x 50	HRF 1000
1333 48 13	4,8 x 13	HRF 1000
1333 48 16	4,8 x 16	HRF 1000
1333 48 19	4,8 x 19	HRF 1000
1333 48 22	4,8 x 22	HRF 1000
1333 48 25	4,8 x 25	HRF 1000
1333 48 32	4,8 x 32	HRF 1000
1333 48 38	4,8 x 38	HR 500
1333 55 16	5,5 x 16	HR 500
1333 55 19	5,5 x 19	HR 500
1333 55 25	5,5 x 25	HR 500
1333 55 32	5,5 x 32	HR 500
1333 63 25	6,3 x 25	HR 500

Specifications



Thread Dia. mm	dk max. mm	f mm	k mm	PH Drive
2.2	4.3	0.7	1.3	1
2.9	5.5	0.9	1.7	1
3.5	6.8	1.2	2.1	2
3.9	7.5	1.3	2.3	2
4.2	8.1	1.4	2.5	2
4.8	9.5	1.5	3.0	2
5.5	10.8	1.7	3.4	3
6.3	12.4	2.0	3.8	3

Sheet Metal Screws DIN7981/7983, Black Galv., Ass.

- 3.5x9.5 - 4.8x22 = 1,600 pieces

Item no.	Item description	QTY
9000 132	ASS.SH.M.SCREW 9781/7983 BGA	1
9000R 132	TRAY SH.M.SCREW 9781/9783 BGA	1



Sheet Metal Screws DIN7983, Black Galv. Assortment

- 2.9x13- 4.8x25 = 1,700 pieces

Item no.	Item description	QTY
9000 1333	ASS.SH.MET.SCREW DIN7983 BLACK	1
9000R 1333	TRAY SH.MET.SCRE.DIN7983 BLACK	1



DIN Package of Combination Sheet Metal Screws, Ga.

- With Hex Head and washer
- Galvanized steel

Item no.	Item description	QTY
1302P 1	DIN PACK.1302 C.SH.MET.SCREWS	1

Contents:

Item no.	Item description	Quantity
1302 48 16	COM.SH.MET.SCR.W.WASH.GA4.8X16	100
1302 48 19	COM.SH.MET.SCR.W.WASH.GA4.8X19	100
1302 56 16	COM.SH.MET.SCR.W.WASH.GA5.6X16	100
1302 65 16	COM.SH.MET.SCR.W.WASH.GA6.5X16	100
1302 65 20	COM.SH.MET.SCR.W.WASH.GA6.5X20	100



DIN Package of Sheet Metal Screws, Galvanized

- DIN 7981 oval head
- Phillips head
- Galvanized steel

Item no.	Item description	QTY
1311P 1	DIN ASSORTM.1311 SH.MET.SCREWS	1

Contents:

Item no.	Item description	Quantity
1311 35 95	OV.PH SH.MET.SCR.7981 GA3.5X9.5	100
1311 35 13	OV.PH SH.MET.SCR.7981 GA3.5X13	100
1311 35 16	OV.PH SH.MET.SCR.7981 GA3.5X16	100
1311 35 19	OV.PH SH.MET.SCR.7981 GA3.5X19	100
1311 39 13	OV.PH SH.MET.SCR.7981 GA3.9X13	100
1311 39 16	OV.PH SH.MET.SCR.7981 GA3.9X16	100
1311 39 19	OV.PH SH.MET.SCR.7981 GA3.9X19	100
1311 42 13	OV.PH SH.MET.SCR.7981 GA4.2X13	100
1311 42 16	OV.PH SH.MET.SCR.7981 GA4.2X16	100
1311 42 19	OV.PH SH.MET.SCR.7981 GA4.2X19	100
1311 48 13	OV.PH SH.MET.SCR.7981 GA4.8X13	100
1311 48 16	OV.PH SH.MET.SCR.7981 GA4.8X16	100
1311 48 19	OV.PH SH.MET.SCR.7981 GA4.8X19	100
1311 48 22	OV.PH SH.MET.SCR.7981 GA4.8X22	100



DIN Package of Sheet Metal Screws, Galvanized

- DIN 7983 oval head
- With Phillips head
- Galvanized steel

Item no.	Item description	QTY
1331P 1	DIN ASSORTM.1331 SH.MET.SCREWS	1

Contents:

Item no.	Item description	Quantity
1331 39 13	OV.PH SH.MET.SCR.7983 GA3.9X13	100
1331 39 16	OV.PH SH.MET.SCR.7983 GA3.9X16	100
1331 39 19	OV.PH SH.MET.SCR.7983 GA3.9X19	100
1331 42 13	OV.PH SH.MET.SCR.7983 GA4.2X13	100
1331 42 16	OV.PH SH.MET.SCR.7983 GA4.2X16	100
1331 42 19	OV.PH SH.MET.SCR.7983 GA4.2X19	100
1331 42 22	OV.PH SH.MET.SCR.7983 GA4.2X22	100
1331 48 13	OV.PH SH.MET.SCR.7983 GA4.8X13	100
1331 48 16	OV.PH SH.MET.SCR.7983 GA4.8X16	100
1331 48 19	OV.PH SH.MET.SCR.7983 GA4.8X19	100
1331 48 22	OV.PH SH.MET.SCR.7983 GA4.8X22	100



DIN Package Sheet Metal Screws, Black Galv.

- Phillips head
- Oval head
- Steel, black galvanized

Item no.	Item description	QTY
1313P 1	DIN PACK.1313/1333 SH.MET.SCR.	1

Contents:

Item no.	Item description	Quantity
1313 35 13	OV.PH SH.MET.SCR.7981 GA3.5X13	100
1313 35 19	OV.PH SH.MET.SCR.7981 GA3.5X19	100
1313 39 95	OV.PH SH.MET.SCR.7981 GA3.9X9.5	100
1313 39 13	OV.PH SH.MET.SCR.7981 GA3.9X13	100
1313 39 16	OV.PH SH.MET.SCR.7981 GA3.9X16	100
1313 39 19	OV.PH SH.MET.SCR.7981 GA3.9X19	100
1313 42 13	OV.PH SH.MET.SCR.7981 GA4.2X13	100
1313 42 16	OV.PH SH.MET.SCR.7981 GA4.2X16	100
1313 42 19	OV.PH SH.MET.SCR.7981 GA4.2X19	100
1313 42 22	OV.PH SH.MET.SCR.7981 GA4.2X22	100
1313 48 13	OV.PH SH.MET.SCR.7981 GA4.8X13	100
1313 48 16	OV.PH SH.MET.SCR.7981 GA4.8X16	100
1313 48 19	OV.PH SH.MET.SCR.7981 GA4.8X19	100
1313 48 22	OV.PH SH.MET.SCR.7981 GA4.8X22	100
1333 35 13	OV.PH SH.MET.SCR.7983 GA3.5X13	100
1333 35 19	OV.PH SH.MET.SCR.7983 GA3.5X19	100
1333 39 16	OV.PH SH.MET.SCR.7983 GA3.9X16	100
1333 39 22	OV.PH SH.MET.SCR.7983 GA3.9X22	100
1333 42 13	OV.PH SH.MET.SCR.7983 GA4.2X13	100
1333 42 16	OV.PH SH.MET.SCR.7983 GA4.2X16	100
1333 42 19	OV.PH SH.MET.SCR.7983 GA4.2X19	100
1333 48 19	OV.PH SH.MET.SCR.7983 GA4.8X19	100



DIN Package Sh. Met. Screws, Round HD, Black Gal.

- With pressed washer
- Phillips head
- Steel black delta seal

Item no.	Item description	QTY
1318P 2	DIN PACK.1318 SH.MET.SCR.RD.H.	1

Contents:

Item no.	Item description	Quantity
1318 35 95	RD.PH SH.MET.SCR.7981 GA3.5X9.5	100
1318 35 13	RD.PH SH.MET.SCR.7981 GA3.5X13	100
1318 35 16	RD.PH SH.MET.SCR.7981 GA3.5X16	100
1318 35 19	RD.PH SH.MET.SCR.7981 GA3.5X19	100
1318 39 13	RD.PH SH.MET.SCR.7981 GA3.9X13	100
1318 39 16	RD.PH SH.MET.SCR.7981 GA3.9X16	100
1318 39 19	RD.PH SH.MET.SCR.7981 GA3.9X19	100
1318 39 22	RD.PH SH.MET.SCR.7981 GA3.9X22	100
1318 42 95	RD.PH SH.MET.SCR.7981 GA4.2X9.5	100
1318 42 13	RD.PH SH.MET.SCR.7981 GA4.2X13	100
1318 42 16	RD.PH SH.MET.SCR.7981 GA4.2X16	100
1318 42 19	RD.PH SH.MET.SCR.7981 GA4.2X19	100
1318 42 22	RD.PH SH.MET.SCR.7981 GA4.2X22	100
1318 42 25	RD.PH SH.MET.SCR.7981 GA4.2X25	100
1318 48 13	RD.PH SH.MET.SCR.7981 GA4.8X13	100
1318 48 16	RD.PH SH.MET.SCR.7981 GA4.8X16	100
1318 48 19	RD.PH SH.MET.SCR.7981 GA4.8X19	100
1318 48 25	RD.PH SH.MET.SCR.7981 GA4.8X25	100



Hex Head Self Tapping Screws DIN7504 K, Galvanized

- Galvanized steel

Item no.	Dimension	QTY
1350 35 13	3,5 x 13	HRF 1000
1350 42 13	4,2 x 13	HRF 1000
1350 42 16	4,2 x 16	HRF 1000
1350 42 19	4,2 x 19	HRF 1000
1350 42 22	4,2 x 22	HRF 1000
1350 42 25	4,2 x 25	HRF 1000
1350 42 32	4,2 x 32	HRF 1000
1350 42 38	4,2 x 38	HRF 1000
1350 48 13	4,8 x 13	HRF 1000
1350 48 16	4,8 x 16	HRF 1000
1350 48 19	4,8 x 19	HRF 1000
1350 48 22	4,8 x 22	HRF 1000
1350 48 25	4,8 x 25	HRF 1000
1350 48 32	4,8 x 32	HRF 1000
1350 48 38	4,8 x 38	HRF 1000
1350 48 45	4,8 x 45	HR 500
1350 48 50	4,8 x 50	HRF 1000
1350 55 16	5,5 x 16	HRF 1000

(d thread dia. x length mm)

Item no.	Dimension	QTY
1350 55 19	5,5 x 19	HRF 1000
1350 55 22	5,5 x 22	HRF 1000
1350 55 25	5,5 x 25	HRF 1000
1350 55 32	5,5 x 32	HRF 1000
1350 55 38	5,5 x 38	HRF 1000
1350 55 50	5,5 x 50	HRF 1000
1350 63 16	6,3 x 16	HRF 1000
1350 63 19	6,3 x 19	HRF 1000
1350 63 22	6,3 x 22	HRF 1000
1350 63 25	6,3 x 25	HRF 1000
1350 63 32	6,3 x 32	HRF 1000
1350 63 38	6,3 x 38	HRF 1000
1350 63 45	6,3 x 45	HRF 1000
1350 63 50	6,3 x 50	HRF 1000
1350 63 60	6,3 x 60	100
1350 63 70	6,3 x 70	100
1350 63 80	6,3 x 80	100



Specifications

Thread Dia. mm	dc max. mm	k max. mm	Thread size mm	Sheet-metal thickness
3.5	8.3	3.45	3.5	0.70 - 2.25
4.2	8.8	4.4	7	1.75 - 3.00
4.8	40.5	4.3	8	1.75 - 4.40
5.5	11.0	5.4	8	1.75 - 5.25
6.3	13.5	5.9	10	2.00 - 6.00

Oval Head Self-Tapp. Screws DIN7504 M, Galvanized

- With Phillips head
- Galvanized steel

Item no.	Dimension	QTY
1351 29 13	2,9 x 13	HRF 1000
1351 29 16	2,9 x 16	HRF 1000
1351 29 19	2,9 x 19	HRF 1000
1351 35 95	3,5 x 9,5	HRF 1000
1351 35 13	3,5 x 13	HRF 1000
1351 35 16	3,5 x 16	HRF 1000
1351 35 19	3,5 x 19	HRF 1000
1351 35 22	3,5 x 22	HRF 1000
1351 35 25	3,5 x 25	HRF 1000
1351 39 13	3,9 x 13	HRF 1000
1351 39 16	3,9 x 16	HRF 1000
1351 39 19	3,9 x 19	HRF 1000
1351 39 22	3,9 x 22	HRF 1000
1351 39 25	3,9 x 25	HRF 1000
1351 39 32	3,9 x 32	HRF 1000
1351 39 38	3,9 x 38	HRF 1000
1351 42 13	4,2 x 13	HRF 1000
1351 42 16	4,2 x 16	HRF 1000

(d thread dia. x length mm)

Item no.	Dimension	QTY
1351 42 19	4,2 x 19	HRF 1000
1351 42 22	4,2 x 22	HRF 1000
1351 42 25	4,2 x 25	HRF 1000
1351 42 32	4,2 x 32	HRF 1000
1351 42 38	4,2 x 38	HRF 1000
1351 48 13	4,8 x 13	HRF 1000
1351 48 16	4,8 x 16	HRF 1000
1351 48 19	4,8 x 19	HRF 1000
1351 48 22	4,8 x 22	RF 1000
1351 48 25	4,8 x 25	HRF 1000
1351 48 32	4,8 x 32	HRF 1000
1351 48 38	4,8 x 38	HRF 1000
1351 48 45	4,8 x 45	HRF 1000
1351 48 50	4,8 x 50	HRF 1000
1351 55 19	5,5 x 19	HRF 1000
1351 55 22	5,5 x 22	HRF 1000
1351 55 25	5,5 x 25	HRF 1000
1351 55 32	5,5 x 32	HRF 1000



Specifications

Thread Dia. mm	dk max. mm	k max. mm	PH Drive mm	Sheet-metal thickness
2.9	5.6	2.20	1	0.70 - 1.90
3.5	6.9	2.60	2	0.70 - 2.25
3.9	7.5	2.80	2	0.70 - 2.40
4.2	8.2	3.05	2	1.75 - 3.00
4.8	9.5	3.55	2	1.75 - 4.40
5.5	10.8	3.95	3	1.75 - 5.25

Self-Tapp. Screws DIN7504 M, Galvanized, Assortm.

- 3.5x9.5 - 4.8x19 = 1,050 pieces

Item no.	Item description	QTY
9000 1351	ASS.PH SELF-TAPP.SCR.7504 M GA	1
9000R 1351	TRAY PH SELF-TAP.SCR.7504 M GA	1



Self-Tapping Screws with CSK Head DIN7504 O, Galv.

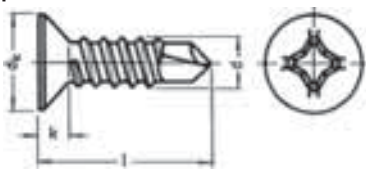
- With Phillips head
- Galvanized steel



Item no.	Dimension	QTY
1352 29 13	2,9 x 13	HRF 1000
1352 35 13	3,5 x 13	HRF 1000
1352 35 16	3,5 x 16	HRF 1000
1352 35 19	3,5 x 19	HRF 1000
1352 35 22	3,5 x 22	HRF 1000
1352 35 25	3,5 x 25	HRF 1000
1352 39 13	3,9 x 13	HRF 1000
1352 39 16	3,9 x 16	HRF 1000
1352 39 19	3,9 x 19	HRF 1000
1352 39 22	3,9 x 22	HRF 1000
1352 39 25	3,9 x 25	HRF 1000
1352 39 32	3,9 x 32	HRF 1000
1352 39 38	3,9 x 38	HRF 1000
1352 42 13	4,2 x 13	HRF 1000
1352 42 16	4,2 x 16	HRF 1000
1352 42 19	4,2 x 19	HRF 1000
1352 42 22	4,2 x 22	HRF 1000
1352 42 25	4,2 x 25	HRF 1000
1352 42 32	4,2 x 32	HRF 1000
1352 42 38	4,2 x 38	HRF 1000
1352 48 16	4,8 x 16	HRF 1000

(d thread dia. x length mm)

Item no.	Dimension	QTY
1352 48 19	4,8 x 19	HRF 1000
1352 48 22	4,8 x 22	HRF 1000
1352 48 25	4,8 x 25	HRF 1000
1352 48 32	4,8 x 32	HRF 1000
1352 48 38	4,8 x 38	HRF 1000
1352 48 45	4,8 x 45	HRF 1000
1352 48 50	4,8 x 50	HRF 1000
1352 55 25	5,5 x 25	HRF 1000
1352 55 32	5,5 x 32	HRF 1000
1352 55 38	5,5 x 38	HRF 1000
1352 55 45	5,5 x 45	HRF 1000
1352 55 50	5,5 x 50	HRF 1000
1352 63 25	6,3 x 25	HRF 1000
1352 63 32	6,3 x 32	HRF 1000
1352 63 38	6,3 x 38	HRF 1000
1352 63 45	6,3 x 45	HRF 1000
1352 63 50	6,3 x 50	HRF 1000
1352 63 60	6,3 x 60	HRF 1000
1352 63 70	6,3 x 70	HRF 1000
1352 63 80	6,3 x 80	100
1352 63 90	6,3 x 90	100

Specifications				
				
Thread Dia. mm	dk max. mm	k mm	PH Drive mm	Sheet-metal thickness
2.9	5.5	1.7	1	0.70 - 1.90
3.5	6.8	2.1	2	0.70 - 2.25
3.9	7.5	2.3	2	0.70 - 2.40
4.2	8.1	2.5	2	1.75 - 3.00
4.8	9.5	3.0	2	1.75 - 4.40
5.5	10.8	3.4	2	1.75 - 5.25
6.3	12.2	5.3	3	2.00 - 6.00

Wing-Type Self-Tap. Screws PH Coarse Thread, Galv.

- Galvanized steel
- Drive: 4.2 - 4.8 PH 2 / 5.5 PH3
- Wing-type self-tapping screws for fastening hard and soft wood to metal sub-constructions without pilot hole
- Cutting tip with wings - no pilot hole required
- Wings ream out hole in (wooden) part to be fastened, preventing it from being pulled down by the thread.
- Wings break off when they hit against the metal sub-construction
- No thread cutting required - fast and economical
- Cutting-type countersunk head sinks completely into particularly hard wood

Use:

- Attaching wood coverings such as balcony planks etc. on metal sub-constructions
- Fastening vehicle body parts etc.



Item no.	Dimension	QTY
1721 42 25	4,2 x 25	1000
1721 48 32	4,8 x 32	500
1721 48 38	4,8 x 38	500
1721 48 45	4,8 x 45	500
1721 48 50	4,8 x 50	450
1721 55 55	5,5 x 55	350
1721 55 60	5,5 x 60	300
1721 55 85	5,5 x 85	150
1721 55 109	5,5 x 109	150

(d thread dia. x length mm)

Specifications		
		
Product no.	Thickness of subconstruction min./max mm	Clamping-length max. mm
1721 42 25	1.0 / 2.5	10
1721 48 32	1.0 / 3.5	15
1721 48 38	1.0 / 3.5	20
1721 48 45	1.0 / 3.5	30
1721 48 50	1.0 / 3.5	35
1721 55 55	1.8 / 5.0	35
1721 55 60	1.8 / 5.0	40
1721 55 85	1.8 / 5.0	65
1721 55 109	1.8 / 5.0	85

Wing-Type Self-Tapp. Screws PH Fine Thread, Galv.

- **Galvanized steel**
- Drive: PH 3
- Wing-type self-tapping screws for fastening hard and soft wood to metal sub-constructions without pilot hole
- Cutting tip with wings - no pilot hole required
- Wings ream out hole in (wooden) part to be fastened, preventing it from being pulled down by the thread.
- Wings break off when they hit against the metal sub-construction
- No thread cutting required - fast and economical
- Cutting-type countersunk head sinks completely into particularly hard wood

Use:

- Attaching wood coverings such as balcony planks etc. on metal sub-constructions
- Fastening vehicle body parts etc.



Specifications



Item no.	Dimension	QTY
1722 55 60	5,5 x 60	300
1722 55 85	5,5 x 85	150
1722 55 109	5,5 x 109	150

(d thread dia. x length mm)

Product no.	Thickness of subconstruction min./max mm	Clamping-length max. mm
1722 55 60	6.0 / 12.5	25
1722 55 85	6.0 / 12.6	50
1722 55 109	6.0 / 12.7	75

Wing-Type Self-Tap. Screws TX Coarse Thread, Galv.

- **Galvanized steel**
- Drive: TX 30
- Wing-type self-tapping screws for fastening hard and soft wood to metal sub-constructions without pilot hole
- Cutting tip with wings - no pilot hole required
- Wings ream out hole in (wooden) part to be fastened, preventing it from being pulled down by the thread.
- Wings break off when they hit against the metal sub-construction
- No thread cutting required - fast and economical
- Cutting-type countersunk head sinks completely into particularly hard wood

Use:

- Attaching wood coverings such as balcony planks etc. on metal sub-constructions
- Fastening vehicle body parts etc.



Specifications



Item no.	Dimension	QTY
1706 55 38	5,5 x 38	200
1706 55 45	5,5 x 45	200
1706 55 50	5,5 x 50	200
1706 63 60	6,3 x 60	200
1706 63 70	6,3 x 70	200
1706 63 80	6,3 x 80	100

(d thread dia. x length mm)

Product no.	Thickness of subconstruction min./max mm	Clamping-length max. mm
1706 55 38	2.0 / 5.0	24
1706 55 45	2.0 / 5.0	31
1706 55 50	2.0 / 5.0	36
1706 63 60	2.5 / 6.0	44
1706 63 70	2.5 / 6.0	54
1706 63 80	2.5 / 6.0	64

Threaded Rods DIN 976 4.8, Plain Steel, 1m

- Strength class 4.8
- Length 1 m
- Plain steel

Article No.	Dimension	QTY
1820 2	M 2	20
1820 3	M 3	20
1820 4	M 4	1
1820 5	M 5	1
1820 6	M 6	1
1820 7	M 7	10
1820 8	M 8	1
1820 10	M 10	1
1820 12	M 12	1
1820 14	M 14	1
1820 16	M 16	1
1820 18	M 18	1
1820 20	M 20	1
1820 22	M 22	1
1820 24	M 24	1
1820 27	M 27	1

(d Thread Dia. mm)

Article No.	Dimension	QTY
1820 30	M 30	1 ü
1820 33	M 33	2
1820 36	M 36	2
1820 39	M 39	2
1820 42	M 42	2
1820 45	M 45	2
1820 48	M 48	2
1820 52	M 52	1
1820 56	M 56	1
1820 60	M 60	1
1820 64	M 64	1
1820 68	M 68	1
1820 72	M 72	1
1820 76	M 76	1
1820 80	M 80	1



Threaded Rods DIN 976 4.8, Galvanized, 1 m

- Strength class 4.8
- Length 1 m
- Galvanized steel

Article No.	Dimension	QTY
1821 3	M 3	1 H
1821 4	M 4	1 H
1821 5	M 5	1 H
1821 6	M 6	1 H
1821 7	M 7	10
1821 8	M 8	1 f
1821 10	M 10	1 g
1821 12	M 12	1 w
1821 14	M 14	1
1821 16	M 16	1 z

(d Thread Dia. mm)

Article No.	Dimension	QTY
1821 18	M 18	1 z
1821 20	M 20	1 ü
1821 22	M 22	1 ü
1821 24	M 24	1
1821 27	M 27	1
1821 30	M 30	1
1821 33	M 33	2
1821 36	M 36	1
1821 39	M 39	2



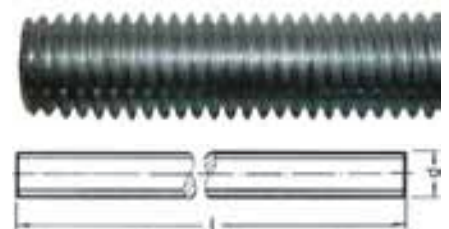
Threaded Rods DIN 976 4.8, Galvanized, 2 m

- Strength class 4.8
- Length 2 m
- Galvanized steel

Article No.	Dimension	QTY
1822 5	M 5	10
1822 6	M 6	1 f
1822 8	M 8	1 g
1822 10	M 10	1 g

(d Thread Dia. mm)

Article No.	Dimension	QTY
1822 12	M 12	1 w
1822 16	M 16	1
1822 20	M 20	1
1822 24	M 24	2



Threaded Rods DIN 976 8.8, Plain Steel, 1 m

- Strength class 8.8
- Length 1 m
- Plain Steel

Article No.	Dimension	QTY
1823 5	M 5	10
1823 6	M 6	1
1823 8	M 8	1
1823 10	M 10	1
1823 12	M 12	1
1823 14	M 14	1
1823 16	M 16	1
1823 18	M 18	1
1823 20	M 20	1
1823 22	M 22	3
1823 24	M 24	1 ü
1823 27	M 27	2

(d Thread Dia. mm)

Article No.	Dimension	QTY
1823 30	M 30	1
1823 33	M 33	2
1823 36	M 36	2
1823 39	M 39	1
1823 42	M 42	1
1823 45	M 45	1
1823 48	M 48	1
1823 52	M 52	1
1823 56	M 56	1
1823 60	M 60	1
1823 64	M 64	1

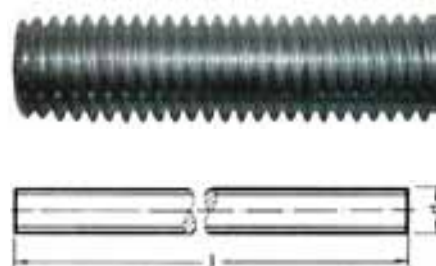


Threaded Rods DIN 976 8.8, Galvanised, 1m

- Strength class 8.8
- Length 1 m
- Galvanised steel

Article No.	Dimension	QTY
1824 4	M 4	1 H
1824 5	M 5	1 H
1824 6	M 6	1 H
1824 8	M 8	1 f
1824 10	M 10	1 g
1824 12	M 12	1 w
1824 14	M 14	1 z
1824 16	M 16	1 z
1824 18	M 18	1
1824 20	M 20	1 ü
1824 22	M 22	1 ü
1824 24	M 24	1 ü

Article No.	Dimension	QTY
1824 27	M 27	1
1824 30	M 30	1
1824 33	M 33	2
1824 36	M 36	1
1824 39	M 39	1
1824 42	M 42	1
1824 45	M 45	1
1824 48	M 48	1
1824 52	M 52	1
1824 56	M 56	1
1824 60	M 60	1
1824 64	M 64	1



Stud Bolts DIN 976 Shape A, Galvanized

- Galvanized steel - corrosion protected

Article No.	Dimension	QTY
1828 8 20	M 8 x 20	300
1828 8 25	M 8 x 25	300
1828 8 30	M 8 x 30	300
1828 8 40	M 8 x 40	300
1828 8 50	M 8 x 50	300
1828 8 60	M 8 x 60	150
1828 8 70	M 8 x 70	150
1828 8 80	M 8 x 80	150
1828 8 90	M 8 x 90	130
1828 8 100	M 8 x 100	130
1828 8 120	M 8 x 120	130
1828 8 150	M 8 x 150	130

Article No.	Dimension	QTY
1828 8 200	M 8 x 200	130
1828 10 35	M 10 x 35	H 300
1828 10 40	M 10 x 40	H 300
1828 10 50	M 10 x 50	H 200
1828 10 60	M 10 x 60	150
1828 10 70	M 10 x 70	150
1828 10 80	M 10 x 80	150
1828 10 90	M 10 x 90	80
1828 10 100	M 10 x 100	80
1828 10 120	M 10 x 120	80
1828 10 150	M 10 x 150	80
1828 12 200	M 12 x 200	10



(d thread dia. x length mm)

Threaded Rod Cutter

- Threaded rod cutter for rod sizes M6, M7, M8, and M10
- Mobile use
- No damage of the thread during cutting process
- No deformation of cutting edges
- No sparking, therefore application in fire protection zones possible
- Clean cut without burr formation
- Lever transmission enables easy cutting
- Adjustable 65 cm stop rail, can be aligned to the right and left
- For threaded rods made of soft steel up to 6.6 – 60 kg/mm²
- Size (LxW): 68 cm x 19 cm
- Length of stop rail: 65 cm



Article No.	Article Description	QTY
4945 1	THREADED ROD CUTTER 6-10MM	1
4945 2	REPLACE.CUT.SET F.THR.ROD CUT.	1

Spacer Sleeves, Round, Galvanized

• Galvanized steel

Article No.	Dimension	QTY
2200 4 20	M 4 x 20	200
2200 5 20	M 5 x 20	f 100
2200 6 20	M 6 x 20	f 100
2200 6 25	M 6 x 25	f 100
2200 6 30	M 6 x 30	f 100
2200 8 25	M 8 x 25	f 100
2200 8 30	M 8 x 30	f 100

(Female thread x length in mm)

Article No.	Dimension	QTY
2200 8 40	M 8 x 40	f 100
2200 10 30	M 10 x 30	f 100
2200 10 40	M 10 x 40	100
2200 12 30	M 12 x 30	f 100
2200 12 40	M 12 x 40	50
2200 20 50	M 20 x 50	25

Technical Data	
Ø mm	Male Ø
4	7
5	8
6	10
8	11
10	13
12	15
20	28



Hex Spacer Sleeves, Galvanized

• Galvanized steel

Article No.	Dimension	QTY
2202 6 25	M 6 x 25	f 100
2202 6 30	M 6 x 30	f 100
2202 8 25	M 8 x 25	f 100
2202 8 30	M 8 x 30	f 100

(Female thread x length in mm)

Article No.	Dimension	QTY
2202 10 30	M 10 x 30	f 100
2202 10 40	M 10 x 40	f 100
2202 12 30	M 12 x 30	f 100
2202 12 40	M 12 x 40	f 100

Technical Data	
Ø mm	Head size
6	10
8	11
10	13
12	17



Reducers, Galvanized

- Connecting element between fastening parts with different thread diameters, e.g. M10 threaded rod and M8 pipe clamp

• Galvanized steel

Article No.	Dimension	QTY
2204 6 8	M 6 - M 8	200
2204 6 10	M 6 - M 10	200
2204 8 6	M 8 - M 6	200
2204 8 10	M 8 - M 10	200
2204 8 12	M 8 - M 12	200
2204 10 6	M 10 - M 6	25
2204 10 8	M 10 - M 8	200
2204 10 12	M 10 - M 12	200
2204 10 16	M 10 - M 16	50

Female thread - male thread

Article No.	Dimension	QTY
2204 12 8	M 12 - M 8	100
2204 12 10	M 12 - M 10	100
2204 16 10	M 16 - M 10	40
2204 16 12	M 16 - M 12	40
2204 1 12 10	1/2" - M 10	25
2204 1 12 12	1/2" - M 12	25
2204 1 12 16	1/2" - M 16	10
2204 1 34 16	3/4" - M 16	10

Technical Data	
Product no.	Head size
2204 6 8	13
2204 6 10	13
2204 8 6	13
2204 8 10	13
2204 8 12	13
2204 10 6	13
2204 10 8	13
2204 10 12	13
2204 10 16	17
2204 12 8	17
2204 12 10	17
2204 16 10	24
2204 16 12	24
2204 1 12 10	24
2204 1 12 12	24
2204 1 12 16	30
2204 1 34 16	30



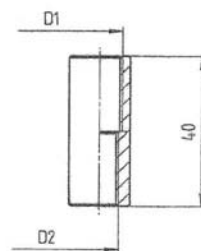
Reducing Sleeves, Galvanized

- Reducing sleeve with female thread at both sides
- Enables the secure connection of fixing parts of different diameters, e.g. M10 threaded rod with M8-pipe clamp
- Galvanized steel

Article No.	Dimension	QTY
2203 8 6	M8 - M6	100
2203 10 8	M10 - M8	100
2203 12 10	M12 - M10	100
2203 16 12	M16 - M12	100

(Female thread)

Technical Data			
Article No.	D 1	D 2	Male thread-Ø
2203 8 6	M8	M6	13
2203 10 8	M10	M8	16
2203 12 10	M12	M10	16
2203 16 12	M16	M12	22



Hex Nuts DIN 934-8, Plain Steel

- In compliance with ISO 4032
- Strength class 8
- Plain Steel

Article No.	Dimension	QTY
2000 25	M 2,5	1000
2000 3	M 3	RF 1000
2000 4	M 4	RF 1000
2000 5	M 5	HRF 1000
2000 6	M 6	HRF 1000
2000 8	M 8	HRF 1000
2000 8 1	M 8 x 1	100
2000 10	M 10	HR 500
2000 10 15	M 10 SW 15	100
2000 10 1	M 10 x 1	100
2000 12	M 12	fH 300
2000 12 125	M 12 x 1,25	100
2000 12 15	M 12 x 1,5	100
2000 14	M 14	f 100
2000 14 1	M 14 x 1	100
2000 14 15	M 14 x 1,5	f 100
2000 16	M 16	f 100
2000 16 1	M 16 x 1	f 100
2000 16 15	M 16 x 1,5	f 100
2000 18	M 18	f 100
2000 20	M 20	50
2000 20 15	M 20 x 1,5	50
2000 20 2	M 20 x 2	50
2000 22 15	M 22 x 1,5	50
2000 24	M 24	g 50
2000 24 2	M 24 x 2	g 50
2000 27	M 27	25
2000 27 15	M 27 x 1,5	25
2000 30	M 30	25
2000 30 15	M 30 x 1,5	25
2000 30 2	M 30 x 2	25
2000 36	M 36	10
2000 39	M 39	10
2000 39 15	M 39 x 1,5	10
2000 48	M 48	10

Specifications

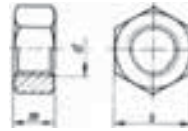
Article No.	Pitch	s Head size	m
(*Fine thread)	mm	mm	mm
2000 25	0.45	5.0	2
2000 3	0.50	5.5	2.4
2000 4	0.70	7	3.2
2000 5	0.80	8	4
2000 6	1.00	10	5
2000 8	1.25	13	6.5
2000 8 1*	1.00	13	6.5
2000 10	1.50	17	8
2000 10 15	1.50	15	8
2000 10 1*	1.00	17	8
2000 12	1.75	19	10
2000 12 125*	1.25	19	10
2000 12 15*	1.50	19	10
2000 14	2.00	22	11
2000 14 1	1.00	22	11
2000 14 15*	1.50	22	11
2000 16	2.00	24	13
2000 16 1	1.00	24	24
2000 16 15*	1.50	24	13
2000 18	2.50	27	15
2000 20	2.50	30	16
2000 20 15*	1.50	30	16
2000 20 2	2.00	30	16
2000 22 15*	1.50	32	18
2000 24	3.00	36	19
2000 24 2	2.00	36	19
2000 27	3.00	41	22
2000 27 15	1.50	41	22
2000 30	3.50	46	24
2000 30 15*	1.50	46	24
2000 30 2	2.00	46	24
2000 36	4.00	55	29
2000 39	4.00	60	31
2000 39 15*	1.50	60	31
2000 48	5.00	75	38



Hex Nuts DIN 934-8, Galvanized

- In compliance with ISO 4032
- Strength class 8
- Galvanized steel

Specifications



Article No.	Dimension	QTY
2001 2	M 2	HRF 1000
2001 25	M 2,5	HRF 1000
2001 3	M 3	HRF 1000
2001 4	M 4	HRF 1000
2001 5	M 5	HRF 1000
2001 6	M 6	HRF 1000
2001 7	M 7	HR 500
2001 8	M 8	HRF 1000
2001 8 1	M 8 x 1	100
2001 8 12	M 8 SW 12	100
2001 10	M 10	HR 500
2001 10 1	M 10 x 1	100
2001 10 125	M 10 x 1,25	100
2001 12	M 12	fH 300
2001 12 1	M 12 x 1	f 100
2001 12 125	M 12 x 1,25	f 100
2001 12 15	M 12 x 1,5	f 100
2001 14	M 14	f 100
2001 14 15	M 14 x 1,5	f 100
2001 16	M 16	f 100
2001 16 15	M 16 x 1,5	f 100
2001 18	M 18	f 100
2001 18 15	M 18 x 1,5	f 100
2001 18 2	M 18 x 2	f 100
2001 20	M 20	50
2001 20 15	M 20 x 1,5	50
2001 22	M 22	50
2001 22 15	M 22 x 1,5	50
2001 24	M 24	g 50
2001 24 15	M 24 x 1,5	25
2001 27	M 27	25
2001 30	M 30	25
2001 30 15	M 30 x 1,5	10
2001 33	M 33	10
2001 36	M 36	10
2001 42	M 42	10
2001 48	M 48	10

Article No.	Pitch	s (Head size)	m
(*Fine thread)	mm	mm	mm
2001 2	0.40	4	1.6
2001 25	0.45	5	2.0
2001 3	0.50	5.5	2.4
2001 4	0.70	7	3.2
2001 5	0.80	8	4.0
2001 6	1.00	10	5.0
2001 7	1.00	11	5.5
2001 8	1.25	13	6.5
2001 8 1*	1.00	13	6.5
2001 8 12	1.25	12	6.5
2001 10	1.50	17	8.0
2001 10 1*	1.00	17	8.0
2001 10 125*	1.25	17	8.0
2001 12	1.75	19	10.0
2001 12 1*	1.00	19	10.0
2001 12 125*	1.25	19	10.0
2001 12 15*	1.50	19	10.0
2001 14	2.00	22	11.0
2001 14 15*	1.50	22	11.0
2001 16	2.00	24	13.0
2001 16 15*	1.50	24	13.0
2001 18	2.50	27	15.0
2001 18 15*	1.50	27	15.0
2001 18 2*	2.00	27	15.0
2001 20	2.50	30	16.0
2001 20 15*	1.50	30	16.0
2001 22	2.50	32	18.0
2001 22 15*	1.50	32	18.0
2001 24	3.00	36	19.0
2001 24 15*	1.50	36	19.0
2001 27	3.00	41	22.0
2001 30	3.50	46	24.0
2001 30 15*	1.50	46	24.0
2001 33	3.50	50	26.0
2001 36	4.00	55	29.0
2001 42	4.50	65	34.0
2001 48	5.00	75	38.0

Hex Nuts DIN 934-8, Galvanized, Assortment

- M4 - M16 = 770 pieces

Article No.	Article Description	QTY
9000 2001	ASS.HEX NUTS 934-8 GALVANIZED	1
9000R 2001	TRAY HEX NUTS 934-8 GALVANIZED	1

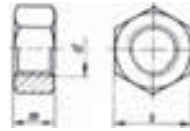


Hex Nuts DIN 934-10, Plain Steel

- In compliance with ISO 4032
- Strength class 10
- Plain Steel

Article No.	Dimension	QTY
2003 6	M 6	HRF 1000
2003 8	M 8	HRF 1000
2003 8 1	M 8 x 1	100
2003 10	M 10	HR 500
2003 10 16	M 10 SW 16	100
2003 10 1	M 10 x 1	HR 500
2003 10 125	M 10 x 1,25	HR 500
2003 12	M 12	fH 300
2003 12 1	M 12 x 1	fH 300
2003 12 125	M 12 x 1,25	fH 300
2003 12 15	M 12 x 1,5	fH 300
2003 14	M 14	f 100
2003 14 15	M 14 x 1,5	f 100
2003 16	M 16	f 100
2003 16 15	M 16 x 1,5	f 100
2003 18	M 18	zf 100
2003 18 15	M 18 x 1,5	f 100
2003 18 2	M 18 x 2	f 100
2003 20	M 20	g 50
2003 20 2	M 20 x 2	g 50
2003 22	M 22	g 50
2003 22 15	M 22 x 1,5	g 50
2003 22 2	M 22 x 2	g 50
2003 24	M 24	g 50
2003 24 15	M 24 x 1,5	g 50
2003 24 2	M 24 x 2	g 50
2003 27	M 27	g 50
2003 27 15	M 27 x 1,5	10
2003 30	M 30	10
2003 30 15	M 30 x 1,5	10
2003 30 2	M 30 x 2	10
2003 33	M 33	10
2003 36	M 36	10
2003 42	M 42	10

Specifications



Article No.	Pitch	s Head size	m
(*Fine thread)	mm	mm	mm
2003 6	1.00	10	5
2003 8	1.25	13	6.5
2003 8 1*	1.00	13	6.5
2003 10	1.50	17	8
2003 10 16	1.50	17	8
2003 10 1*	1.00	17	8
2003 10 125*	1.25	17	8
2003 12	1.75	19	10
2003 12 1	1.00	19	10
2003 12 125*	1.25	19	10
2003 12 15*	1.50	19	10
2003 14	2.00	22	11
2003 14 15*	1.50	22	11
2003 16	2.00	24	13
2003 16 15*	1.50	24	13
2003 18	2.50	27	15
2003 18 15*	1.50	27	15
2003 18 2*	2.00	27	15
2003 20	2.50	30	16
2003 20 2	2.00	30	16
2003 22	2.50	32	18
2003 22 15*	1.50	32	18
2003 22 2	2.00	32	18
2003 24	3.00	36	19
2003 24 15*	1.50	36	19
2003 24 2	2.00	36	19
2003 27	3.00	41	22
2003 27 15	1.50	41	22
2003 30	3.50	46	24
2003 30 15*	1.50	46	24
2003 30 2	2.00	46	24
2003 33	3.50	50	26
2003 36	4.00	55	29
2003 42	4.50	65	34

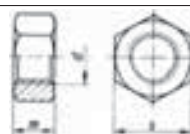


Hex Nuts DIN 934-10, Galvanized

- In compliance with ISO 4032
- Strength class 10
- Galvanized steel

Article No.	Dimension	QTY
2004 6	M 6	HRF 1000
2004 8	M 8	HRF 1000
2004 8 1	M 8 x 1	H 300
2004 10	M 10	HR 500
2004 10 1	M 10 x 1	H 300
2004 12	M 12	fH 300
2004 12 15	M 12 x 1,5	H 300
2004 14	M 14	f 100
2004 14 15	M 14 x 1,5	f 100
2004 16	M 16	f 100
2004 16 15	M 16 x 1,5	f 100
2004 18	M 18	f 100
2004 18 15	M 18 x 1,5	f 100
2004 20	M 20	g 50
2004 20 15	M 20 x 1,5	g 50
2004 24	M 24	g 50
2004 24 15	M 24 x 1,5	g 50
2004 24 2	M 24 x 2	g 50
2004 27	M 27	25
2004 30	M 30	10
2004 30 2	M 30 x 2	10

Specifications



Article No.	Pitch	s Head size	m
(*Fine thread)	mm	mm	mm
2004 6	1.00	10	5
2004 8	1.25	13	6.5
2004 8 1*	1.00	13	6.5
2004 10	1.50	17	8
2004 10 1*	1.00	17	8
2004 12	1.75	19	10
2004 12 15*	1.50	19	10
2004 14	2.00	22	11
2004 14 15*	1.50	22	11
2004 16	2.00	24	13
2004 16 15*	1.50	24	13
2004 18	2.50	27	15
2004 18 15*	1.50	27	15
2004 20	2.50	30	16
2004 20 15*	1.50	30	16
2004 24	3.00	36	19
2004 24 15*	1.50	36	19
2004 24 2	2.00	36	19
2004 27	3.00	41	22
2004 30	3.50	46	24
2004 30 2	2.00	46	24

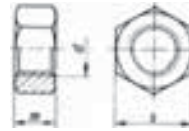


Hex Nuts DIN 934, Brass

- In compliance with ISO 4032 Specifications
- Brass

Article No.	Dimension	QTY
2007 2	M 2	1000
2007 2 5	M 2,5	1000
2007 3	M 3	HF 1000
2007 4	M 4	HF 1000
2007 5	M 5	HRF 1000
2007 6	M 6	HRF 1000
2007 8	M 8	HRF 1000
2007 10	M 10	HR 500
2007 10 1	M 10 x 1	100
2007 12	M 12	f 100
2007 14	M 14	50
2007 16	M 16	50
2007 20	M 20	50

Specifications



Article No.	Pitch	s Head size	m
(*Fine thread)	mm	mm	mm
2007 2	0.40	4	1.6
2007 2 5	0.45	5	2
2007 3	0.50	5.5	2.4
2007 4	0.70	7	3.2
2007 5	0.80	8	4
2007 6	1.00	10	5
2007 8	1.25	13	6.5
2007 10	1.50	17	8
2007 10 1	1.00	17	8
2007 12	1.75	19	10
2007 14	2.00	22	11
2007 16	2.00	24	13
2007 20	2.50	30	16



Hex Nuts DIN 936, Galvanized

- In compliance with ISO 4035 Specifications
- Hex nut flat

Article No.	Dimension	QTY
2031 8	M 8	100
2031 10	M 10	100
2031 10 1	M 10 x 1	100
2031 12	M 12	f 100
2031 12 15	M 12 x 1,5	100
2031 14	M 14	100
2031 14 15	M 14 x 1,5	100
2031 16	M 16	100
2031 16 15	M 16 x 1,5	f 100
2031 18 15	18 x 1,5	f 100
2031 20	M 20	f 100
2031 20 15	M 20 x 1,5	100
2031 22	M 22	50
2031 22 15	M 22 x 1,5	50
2031 24	M 24	50
2031 24 15	M 24 x 1,5	5
2031 27	M 27	5
2031 27 15	M 27 x 1,5	5
2031 30	M 30	5
2031 30 15	M 30 x 1,5	25

Specifications



Article No.	Pitch	s Head size
(*Fine thread)	mm	mm
2031 8	1.25	13
2031 10	1.50	17
2031 10 1*	1.00	17
2031 12	1.75	19
2031 12 15*	1.50	19
2031 14	2.00	22
2031 14 15*	1.50	22
2031 16	2.00	24
2031 16 15*	1.50	24
2031 18 15*	1.50	27
2031 20	2.50	30
2031 20 15*	1.50	30
2031 22	2.50	32
2031 22 15*	1.50	32
2031 24	3.00	36
2031 24 15*	1.50	36
2031 27	3.00	41
2031 27 15*	1.50	41
2031 30	3.50	46
2031 30 15*	1.50	46



Hex Nuts, Inch Sizes, Similar to DIN934 UNC, Galv.

- Strength class 8
- Galvanized steel

Article No.	Dimension	QTY
2011 14	UNC 1/4	HR 500
2011 516	UNC 5/16	HR 500
2011 38	UNC 3/8	HR 500
2011 12	UNC 1/2	HR 500
2011 58	UNC 5/8	H 300
2011 34	UNC 3/4	100
2011 78	UNC 7/8	HR 500

Specifications

Thread Dia. inches	Threads per inch	Head size inches	m inches
1/4"	20	7/16"	7/32"
5/16"	18	1/2"	17/64"
3/8"	16	9/16"	21/64"
1/2"	13	3/4"	7/16"
5/8"	11	15/16"	35/64"
3/4"	10	1 1/8"	41/64"
7/8"	9	1 5/16"	3/4"



Hex Nuts, Inch Sizes, Similar to DIN934 UNF, Galv.

- Strength class 8
- Fine thread
- Galvanized steel

Article No.	Dimension	QTY
2013 14	UNF 1/4	HR 500
2013 516	UNF 5/16	HR 500
2013 38	UNF 3/8	HR 500
2013 716	UNF 7/16	HR 500
2013 12	UNF 1/2	HR 500
2013 916	UNF 9/16	HR 500
2013 58	UNF 5/8	H 300
2013 34	UNF 3/4	HR 500

Specifications

Thread Dia. inches	Threads per inch	Head size inches	m inches
1/4"	28	7/16"	7/32"
5/16"	24	31/64"	17/64"
3/8"	24	9/16"	21/64"
7/16"	20	11/16"	3/8"
1/2"	20	3/4"	7/16"
9/16"	18	7/8"	31/64"
5/8"	18	15/16"	35/64"
3/4"	16	1 1/16"	41/64"



Hex Nylock Nuts, Inch Sizes Sim. to DIN985 UNF Ga.

- Galvanized steel

Article No.	Dimension	QTY
2131 14	UNC 1/4	100
2131 516	UNC 5/16	100
2131 716	UNC 7/16	100
2131 12	UNC 1/2	100

Specifications

Thread Dia. inches	Threads per inch	Head size inches	h mm
1/4"	20	7/16"	7.94
5/16"	18	1/2"	8.74
7/16"	14	5/8"	11.50
1/2"	13	3/4"	15.10



Hex Nylock Nuts, Inch Sizes Sim. to DIN985 UNF Ga.

- Fine thread
- Galvanized steel

Article No.	Dimension	QTY
2133 14	UNF 1/4	100
2133 516	UNF 5/16	100
2133 716	UNF 7/16	100

Specifications

Thread Dia. inches	Threads per inch	Head size inches	h mm
1/4"	28	7/16"	7.94
5/16"	24	1/2"	8.74
7/16"	20	5/8"	11.50



Hex Nylock Nuts DIN 985-8, Galvanized

- In compliance with ISO 10511
- Strength class 8
- Self-locking with polyamide ring
- Galvanized steel

Article No.	Dimension	QTY
2101 3	M 3	H 500
2101 4	M 4	HRF 1000
2101 5	M 5	HRF 1000
2101 6	M 6	HRF 1000
2101 7	M 7	HR 500
2101 8	M 8	HRF 1000
2101 8 1	M 8 x 1	HR 500
2101 10	M 10	HR 500
2101 10 1	M 10 x 1	H 300
2101 10 125	M 10 x 1,25	H 300
2101 12	M 12	fH 300
2101 12 1	M 12 x 1	f 100
2101 12 125	M 12 x 1,25	f 100
2101 12 15	M 12 x 1,5	f 100
2101 14	M 14	f 100
2101 14 15	M 14 x 1,5	f 100
2101 16	M 16	f 100
2101 16 15	M 16 x 1,5	f 100
2101 18	M 18	f 100
2101 18 15	M 18 x 1,5	f 100
2101 18 2	M 18 x 2	gf 100
2101 20	M 20	g 50
2101 20 15	M 20 x 1,5	g 50
2101 20 2	M 20 x 2	g 50
2101 22	M 22	g 50
2101 22 15	M 22 x 1,5	g 50
2101 24	M 24	g 50
2101 24 15	M 24 x 1,5	g 50
2101 24 2	M 24 x 2	g 50
2101 27	M 27	25
2101 30	M 30	25
2101 36	M 36	10

Specifications			
Article No.	Pitch	Head size mm	h max mm
(*Fine thread)	mm		
2101 3	0.50	5.5	4
2101 4	0.70	7	5
2101 5	0.80	8	5
2101 6	1.00	10	6
2101 7	1.00	11	7.5
2101 8	1.25	13	8
2101 8 1*	1.00	13	8
2101 10	1.50	17	10
2101 10 1*	1.00	17	10
2101 10 125*	1.25	17	10
2101 12	1.75	19	12
2101 12 1*	1.00	19	12
2101 12 125*	1.25	19	12
2101 12 15*	1.50	19	12
2101 14	2.00	22	14
2101 14 15*	1.50	22	14
2101 16	2.00	24	16
2101 16 15*	1.50	24	16
2101 18	2.50	27	18.5
2101 18 15*	1.50	27	18.5
2101 18 2*	2.00	27	18.5
2101 20	2.50	30	20
2101 20 15*	1.50	30	20
2101 20 2*	2.00	30	20
2101 22	2.50	32	22
2101 22 15*	1.50	32	22
2101 24	3.00	36	24
2101 24 15*	1.50	36	24
2101 24 2*	2.00	36	24
2101 27	3.00	41	27
2101 30	3.50	46	30
2101 36	4.00	55	36



Hex. Nylock Nuts DIN 985-8, Galvanized, Assortment

- M4x1 - M16x1.5 = 670 pieces



Article No.	Article Description	QTY
9000 2101	ASS.HEX.NYLOCK NUTS 985-8 GA	1
9000R 2101	TRAY HEX.NYLOCK NUTS 985-8 GA	1

Hex. Nylock Nuts DIN 985-10, Galvanized

- In compliance with ISO 10511
- Strength class 10
- Self-locking with polyamide ring
- Galvanized steel

Article No.	Dimension	QTY
2104 8	M 8	HR 500
2104 8 1	M 8 x 1	HR 500
2104 10	M 10	HR 500
2104 10 1	M 10 x 1	HR 500
2104 10 125	M 10 x 1,25	100
2104 12	M 12	fH 300
2104 12 1	M 12 x 1	f 100
2104 12 125	M 12 x 1,25	f 100
2104 12 15	M 12 x 1,5	f 100
2104 14	M 14	f 100
2104 14 15	M 14 x 1,5	f 100
2104 16	M 16	f 100
2104 16 15	M 16 x 1,5	f 100
2104 18	M 18	f 100
2104 18 15	M 18 x 1,5	f 100
2104 20	M 20	g 50
2104 20 15	M 20 x 1,5	g 50
2104 22	M 22	g 50
2104 22 15	M 22 x 1,5	g 50
2104 24	M 24	25
2104 24 15	M 24 x 1,5	25
2104 27	M 27	25

Specifications			
Article No.	Pitch	Head size	h max.
(*Fine thread)	mm	mm	mm
2104 8	125	13	8
2104 8 1*	1.00	13	8
2104 10	1.50	17	10
2104 10 1*	1.00	17	10
2104 10 125*	1.25	17	10
2104 12	1.75	19	12
2104 12 1*	1.00	19	12
2104 12 125*	1.25	19	12
2104 12 15*	1.50	19	12
2104 14	2.00	22	14
2104 14 15*	1.50	22	14
2104 16	2.00	24	16
2104 16 15*	1.50	24	16
2104 18	2.50	27	18.5
2104 18 15*	1.50	27	18.5
2104 20	2.50	30	20
2104 20 15*	1.50	30	20
2104 22	2.50	32	22
2104 22 15*	1.50	32	22
2104 24	3.00	36	24
2104 24 15*	1.50	36	24
2104 27	3.00	41	27



Hex Lock Nuts DIN 985-10 Fine, Zinc Plated

- M8x1 - M16x1,5 = 200 pieces

Article No.	Article Description	QTY
9000 2104	HEX NYLOCK NUT985-10 FINE THR.	1
9000R 2104	TRAY HEX NYLOCK NUTS 985-10 GA	1



Nylock Nuts and Hex Nuts, Galvanized, Assortment

- M5 - M12 = 1050 pieces

Article No.	Article Description	QTY
9000 21	ASS.NUTS+NYLOCKS 934/985 GA	1
9000R 21	TRAY NUTS+NYLOCKS 934/985 GA	1



Hex. Nylock Nuts DIN 982-8, Galvanized

- In compliance with ISO 7040
- Strength class 8
- Self-locking with polyamide ring
- High type
- Galvanized steel

Article No.	Dimension	QTY
2121 6	M 6	100
2121 8	M 8	100
2121 10	M 10	100
2121 10 1	M 10 x 1	100
2121 10 125	M 10 x 1,25	100
2121 12	M 12	100
2121 12 125	M 12 x 1,25	100
2121 12 15	M 12 x 1,5	100
2121 14	M 14	100
2121 14 15	M 14 x 1,5	100
2121 16	M 16	100
2121 20	M 20	50

Specifications				
Article No.	Pitch	Head size	h max.	m min.
(*Fine thread)	mm	mm	mm	mm
2121 6	1.00	10	8.0	4.90
2121 8	1.25	13	9.5	6.44
2121 10	1.50	17	11.5	8.04
2121 10 1*	1.00	17	11.5	8.04
2121 10 125*	1.25	17	11.5	8.04
2121 12	1.75	19	14.0	10.37
2121 12 125*	1.25	19	14.0	10.37
2121 12 15*	1.50	19	14.0	10.37
2121 14	2.00	22	16.0	12.10
2121 14 15*	1.50	22	16.0	12.10
2121 16	2.00	24	18.0	14.10
2121 20	2.50	30	22.0	16.90



Hex. Nylock Nuts DIN 982-10, Galvanized

- In compliance with ISO 7040
- Strength class 10
- Self-locking with polyamide ring
- High type
- Galvanized steel

Article No.	Dimension	QTY
2124 8	M 8	100
2124 10	M 10	100
2124 10 125	M 10 x 1,25	100
2124 12	M 12	100
2124 12 15	M 12 x 1,5	100
2124 14	M 14	100
2124 14 15	M 14 x 1,5	100
2124 16	M 16	100
2124 16 15	M 16 x 1,5	100
2124 18	M 18	100
2124 20	M 20	50
2124 20 15	M 20 x 1,5	50
2124 22 15	M 22 x 1,5	50
2124 24	M 24	50
2124 24 2	M 24 x 2	50

Specifications				
Article No.	Pitch	Head size	h max.	m min.
(*Fine thread)	mm	mm	mm	mm
2124 8	1.25	13	9.5	6.44
2124 10	1.50	17	11.5	8.04
2124 10 125*	1.25	17	11.5	8.04
2124 12	1.75	19	14.0	10.37
2124 12 15*	1.50	19	14.0	10.37
2124 14	2.00	22	16.0	12.10
2124 14 15*	1.50	22	16.0	12.10
2124 16	2.00	24	18.0	14.10
2124 16 15*	1.50	24	18.0	14.10
2124 18	2.50	27	20.0	15.10
2124 20	2.50	30	22.0	16.90
2124 20 15*	1.50	30	22.0	16.90
2124 22 15*	1.50	32	25.0	18.10
2124 24	3.00	36	28.0	20.20
2124 24 15*	2.00	36	28.0	20.20



Hex. Lock Nuts DIN 980 V-8, Galvanized

- In compliance with ISO 10513
- All-metal lock nuts
- Strength class 8
- Galvanized

Article No.	Dimension	QTY
2111 4	M 4	HR 500
2111 5	M 5	HR 500
2111 6	M 6	HR 500
2111 8	M 8	HR 500
2111 10	M 10	HR 500
2111 10 1	M 10 x 1	f 100
2111 10 125	M 10 x 1,25	100
2111 12	M 12	fH 300
2111 12 15	M 12 x 1,5	fH 300
2111 14	M 14	f 100
2111 14 15	M 14 x 1,5	f 100
2111 16	M 16	f 100
2111 16 15	M 16 x 1,5	f 100
2111 18	M 18	f 100
2111 18 15	M 18 x 1,5	f 100
2111 20	M 20	g 50
2111 20 15	M 20 x 1,5	g 50
2111 24	M 24	25

Specifications				
Article No.	Pitch	Head size	h	m min.
(*Fine thread)	mm	mm	mm	mm
2111 4	0.70	7	4.2	2.20
2111 5	0.80	8	5.1	2.75
2111 6	1.00	10	6.0	3.30
2111 8	1.25	13	8.0	4.40
2111 10	1.50	17	10.0	5.50
2111 10 1*	1.00	17	10.0	5.50
2111 10 125*	1.25	17	10.0	5.50
2111 12	1.75	19	12.0	6.60
2111 12 15*	1.50	19	12.0	6.60
2111 14	2.00	22	14.0	7.70
2111 14 15*	1.50	22	14.0	7.70
2111 16	2.00	24	16.0	8.80
2111 16 15*	1.50	24	16.0	8.80
2111 18	2.50	27	18.0	9.90
2111 18 15*	1.50	27	18.0	9.90
2111 20	2.50	30	20.0	11.00
2111 20 15*	1.50	30	20.0	11.00
2111 24	1.50	36	24.0	13.20



Hex. Lock Nuts DIN 980 V-10, Galvanized

- In compliance with ISO 10513
- All-metal lock nut
- Strength class 10
- Galvanized

Article No.	Dimension	QTY
2114 6	M 6	H 300
2114 8	M 8	H 300
2114 10	M 10	H 300
2114 10 1	M 10 x 1	100
2114 10 125	M 10 x 1,25	100
2114 12	M 12	H 300
2114 12 15	M 12 x 1,5	H 300
2114 14	M 14	f 100
2114 14 15	M 14 x 1,5	f 100
2114 16	M 16	f 100
2114 16 15	M 16 x 1,5	f 100
2114 18	M 18	f 100
2114 18 15	M 18 x 1,5	f 100
2114 20	M 20	g 50
2114 20 15	M 20 x 1,5	g 50
2114 22	M 22	g 50
2114 22 15	M 22 x 1,5	g 50
2114 24 15	M 24 x 1,5	g 50

Specifications				
Article No.	Pitch	Head size	h	m min.
(*Fine thread)	mm	mm	mm	mm
2114 6	1.00	10	6	3.3
2114 8	1.25	13	8	4.4
2114 10	1.50	17	10	5.5
2114 10 1*	1.00	17	10	5.5
2114 10 125*	1.25	17	10	5.5
2114 12	1.75	19	12	6.6
2114 12 15*	1.50	19	12	6.6
2114 14	2.00	22	14	7.7
2114 14 15*	1.50	22	14	7.7
2114 16	2.00	24	16	8.8
2114 16 15*	1.50	24	16	8.8
2114 18	2.50	27	18	9.9
2114 18 15*	1.50	27	18	9.9
2114 20	2.50	30	20	11.0
2114 20 15*	1.50	30	20	11.0
2114 22	2.50	32	22	12.2
2114 22 15*	1.50	32	22	12.2
2114 24 15*	1.50	36	24	13.2



Hex Castle Nuts DIN 935 High type, Plain Steel

- Plain steel

Article No.	Dimension	QTY
2150 8	M 8	100
2150 8 1	M 8 x 1	50
2150 10	M 10	100
2150 10 1	M 10 x 1	50
2150 12	M 12	100
2150 12 15	M 12 x 1,5	100
2150 14	M 14	25
2150 16	M 16	25
2150 16 15	M 16 x 1,5	25
2150 18	M 18	25
2150 18 15	M 18 x 1,5	25
2150 20	M 20	25
2150 20 15	M 20 x 1,5	25
2150 20 2	M 20 x 2	25
2150 22	M 22	25
2150 24	M 24	25
2150 27	M 27	10
2150 27 15	M 27 x 1,5	10
2150 27 2	M 27 x 2	10
2150 30	M 30	10
2150 42	M 42	5

Specifications					
Article No.	Pitch	Head size	m max.	n min.	w max.
(*Fine thread)	mm	mm	mm	mm	mm
2150 8	1.25	13	9.5	2.5	6.5
2150 8 1*	1.00	13	9.5	2.5	8
2150 10	1.50	17	12	2.8	8
2150 10 1*	1.00	17	12	2.8	8
2150 12	1.75	19	15	3.5	10
2150 12 15*	1.50	19	15	3.5	10
2150 14	2.00	22	16	3.5	11
2150 16	2.00	24	19	4.5	24
2150 16 15*	1.50	24	19	4.5	24
2150 18	2.50	27	21	4.5	27
2150 18 15*	1.50	27	21	4.5	27
2150 20	2.50	30	22	4.5	16
2150 20 15*	1.50	30	22	4.5	16
2150 20 2*	2.00	30	22	4.5	16
2150 22	2.50	32	26	5.5	18
2150 24	3.00	36	27	5.5	19
2150 27	3.00	41	30	5.5	22
2150 27 15*	1.50	41	30	5.5	22
2150 27 2*	2.00	41	30	5.5	22
2150 30	3.50	46	33	7.0	24
2150 42	4.50	65	46	9.0	34



Hex Castle Nuts DIN 937 Low Type, Plain Steel

- In compliance with ISO 7038
- Plain Steel

Article No.	Dimension	QTY
2170 8	M 8	50
2170 10	M 10	50
2170 10 1	M 10 x 1	50
2170 12	M 12	50
2170 12 15	M 12 x 1,5	50
2170 14	M 14	25
2170 14 15	M 14 x 1,5	25
2170 16	M 16	25
2170 16 15	M 16 x 1,5	25
2170 18	M 18	25
2170 18 15	M 18 x 1,5	25
2170 20	M 20	25
2170 20 15	M 20 x 1,5	25
2170 22	M 22	25
2170 22 15	M 22 x 1,5	25
2170 24	M 24	25
2170 24 15	M 24 x 1,5	25
2170 27	M 27	10
2170 27 15	M 27 x 1,5	10
2170 30	M 30	10
2170 30 15	M 30 x 1,5	10

Specifications

Artikel-Nr. (*Fein- gewinde)	Steigung mm	s (SW) max. mm	m max. mm	n min. mm	w max. mm
2170 8	1,25	13	8		
2170 10	1,50	16	9		
2170 10 1*	1,00	16	9		
2170 12	1,75	18	10	3,5	6
2170 12 15*	1,50	18	10	3,5	6
2170 14	2,00	21	11	3,5	7
2170 14 15*	1,50	21	11	3,5	7
2170 16	2,00	24	12	4,5	7
2170 16 15*	1,50	24	12	4,5	7
2170 18	2,50	27	13	4,5	8
2170 18 1*	1,00	27	13	4,5	8
2170 18 15*	1,50	27	13	4,5	8
2170 20	2,50	30	13	4,5	8
2170 20 15*	1,50	30	13	4,5	8
2170 22	2,50	34	15	5,5	9
2170 22 15*	1,50	34	15	5,5	9
2170 24	3,00	36	15	4,5	9
2170 24 15*	1,50	36	15	5,5	9
2170 27 15*	1,50	41	17	5,5	11
2170 30	3,50	46	18	7,0	11
2170 30 15*	1,50	46	18	7,0	11



Serrated Locking Nuts, Galvanized

- Strength class 8
- Galvanized steel

Article No.	Dimension	QTY
2073 5	M 5	100
2073 6	M 6	100
2073 8	M 8	100
2073 10	M 10	50
2073 12	M 12	50
2073 14	M 14	50
2073 16	M 16	25

Specifications

Thread Dia. mm	Head size mm	d2 mm
5	8	11.20
6	10	14.25
8	13	18.25
10	17	21.00
12	19	24.00
14	21	29.90
16	24	31.00



Hex Flange Nuts, Galvanized

- Strength class 10
- Hex flange nut with captive washer
- Steel yellow galvanized

Article No.	Dimension	QTY
2040 4	M 4	HR 500
2040 5	M 5	HR 500
2040 6	M 6	HR 500
2040 8	M 8	HR 500
2040 10	M 10	HR 500

Specifications

Thread Dia. mm	Pitch mm	Head size mm
M 4	0.70	7
M 5	0.80	8
M 6	1.00	10
M 8	1.25	13
M 10	1.50	17



Hex Nuts with Flange

- Strength class 10
- Dacromet coated
- Genuine Mercedes frame nut

Article No.	Dimension	QTY
2076 12 15	M 12x1,5	100
2076 14 15	M 14x1,5	100
2076 16 15	M 16x1,5	100

Specifications

Thread Dia. mm	Pitch mm	Head size mm	h max. mm	m min. mm
M12	1.08	18	13.8	11.6
M14	1.32	21	15.9	13.3
M16	1.44	24	18.3	15.3



Wing Nuts DIN 315, Galvanized

Article group (AGR) 2221

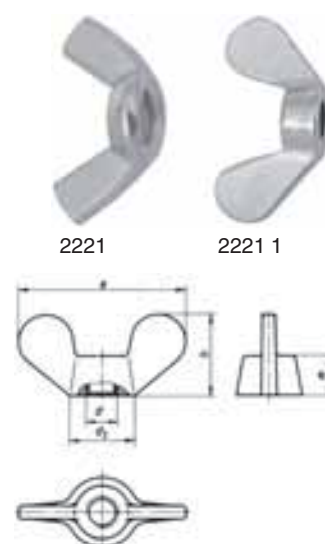
- American design
- Galvanized steel

Article group (AGR) 2221 1

- Malleable cast-iron galvanized

Article No.	Dimension	QTY
2221 3	M 3	100
2221 4	M 4	100
2221 5	M 5	100
2221 6	M 6	100
2221 8	M 8	100
2221 10	M 10	100
2221 12	M 12	50
2221 16	M 16	50
2221 20	M 20	10
2221 1 12	M 12	g 50
2221 1 14	M 14	50
2221 1 16	M 16	g 50
2221 1 20	M 20	10
2221 1 24	M 24	5

Technical Data						
d	Pitch	d2	e	h	m	
Thr.-Ø		max.	max.	max.	max.	
mm	mm	mm	mm	mm	mm	
M 3	0,50	8,3	20,0	9,6	3,6	
M 4	0,70	8,3	20,0	9,6	3,6	
M 5	0,80	10,3	23,5	11,5	4,5	
M 6	1,00	12,7	28,7	13,7	5,5	
M 8	1,25	14,4	32,0	16,0	6,0	
M 10	1,50	16,2	38,0	18,0	6,9	
M 12	1,75	21,5	50,0	24,0	8,5	
M 16	2,00	26,4	70,1	36,6	14,0	
M 20	2,50	30,5	66,8	33,6	12,1	
M 12	1,75	23,0	65,0	33,5	14,0	
M 14	2,00	23,0	65,0	33,5	14,0	
M 16	2,00	29,0	73,0	37,5	17,0	
M 20	2,50	35,0	90,0	46,5	21,0	
M 24	3,00	44,0	110,0	56,5	25,0	



Wing Nuts DIN 315, Brass Plain

- Brass plain

Article No.	Dimension	QTY
2227 4	M 4	100
2227 5	M 5	100
2227 6	M 6	100
2227 8	M 8	100
2227 10	M 10	100
2227 3	M 3	250
2227 12	M 12	50
2227 14	M 14	50
2227 16	M 16	20
2227 20	M 20	10
2227 24	M 24	5

Technical Data						
d	Pitch	d2	e	h	m	
Thr.-Ø		max.	max.	max.	max.	
mm	mm	mm	mm	mm	mm	
M 3	0,50	8	17,6	8,6	4,6	
M 4	0,70	8	20,0	10,5	4,6	
M 5	0,80	11	26,0	13,0	6,5	
M 6	1,00	13	33,0	17,0	8,0	
M 8	1,25	16	39,0	20,0	10,0	
M 10	1,50	20	51,0	25,0	12,0	
M 12	1,75	23	65,0	33,5	14,0	
M 14	2,00	23	65,0	33,5	14,0	
M 16	2,00	29	73,0	37,5	17,0	
M 20	2,50	35	90,0	46,5	21,0	
M 24	3,00	44	110,0	56,5	25,0	

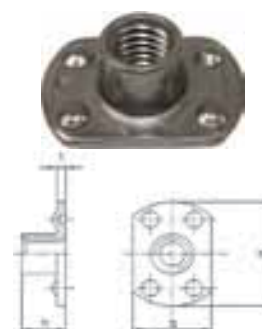


Welding Nuts, Plain Steel

- For high torques
- Plain Steel

Article No.	Dimension	QTY
2270 4	M 4	100
2270 5	M 5	100
2270 6	M 6	100
2270 8	M 8	100

Technical Data						
d	Pitch	a	b	t	h	
Thr.-Ø						
mm	mm	mm	mm	mm	mm	
M 4	0,70	17	9	1,0	6,0	
M 5	0,80	19	11	1,0	7,8	
M 6	1,00	19	11	1,2	7,8	
M 8	1,25	26	18	2,0	11,0	



Weld Nuts DIN 929, Plain Steel

- Plain Steel

Article No.	Dimension	QTY
2271 6	M 6	100
2271 8	M 8	100
2271 10	M 10	100
2271 12	M 12	100
2271 14	M 14	100
2271 16	M 16	100
2271 3	M 3	1000
2271 4	M 4	1000
2271 5	M 5	1000

Technical Data						
d1	d2	h1	h2	m	S	
M 3	4,5	0,55	0,25	3,0	7,5	
M 4	6,0	0,65	0,35	3,5	9,0	
M 5	7,0	0,70	0,40	4,0	10,0	
M 6	8,0	0,75	0,40	5,0	11,0	
M 8	10,5	0,90	0,50	6,5	14,0	
M 10	12,5	1,15	0,65	8,0	17,0	
M 12	14,8	1,40	0,80	10,0	06,0	
M 14	16,8	1,80	1,00	11,0	22,0	
M 16	18,8	1,80	1,00	13,0	24,0	



Box Nuts, Galvanized Steel

- Compensation possibility in case of tolerance variation due to horizontal and vertical movement of the nut inside the spring steel housing

• Galvanized steel

Article No.	Dimension	QTY
2295 4	M 4	100
2295 4 1	M 4	100
2295 5	M 5	100
2295 6	M 6	100
2295 6 1	M 6	100
2295 8	M 8	100
2295 8 1	M 8	100

Technical Data

Fixing thickness mm	Fixing hole mm
0.7 - 1.6	5.3 x 5.3
0.7 - 1.6	8.1 x 13
0.7 - 1.6	9.5 x 9.5
0.7 - 1.6	9.5 x 9.5
0.7 - 1.6	8.1 x 13
1.8 - 3.2	12.1 x 12.1
1.8 - 3.2	11.1 x 18.5



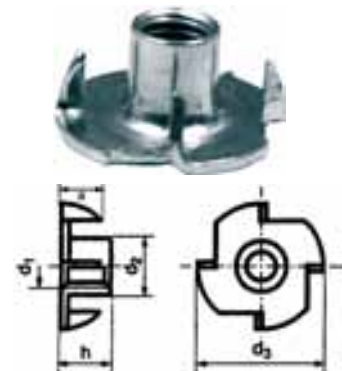
Knock-In Nuts, Galvanized Steel

- Galvanized steel
- With 4 knock-in tips
- For installing wood and wooden materials
- Deep-drawing steel strip

Article No.	Dimension	QTY
2280 4	M 4	200
2280 5	M 5	100
2280 6	M 6	100
2280 8	M 8	100
2280 10	M 10	100

Technical Data

d ₁ mm	d ₂ mm	d ₃ mm	h mm	a mm
M 4	5,0	15	6	5
M 5	6,5	17	8	7
M 6	7,5	19	9	7
M 8	9,5	22	11	9
M 10	11,5	25	12	11



Sheet-Metal Nuts, Spring Steel DIN 17222, Galv. St

- Application: for material thickness 0.5-1.8 mm

• Galvanized steel

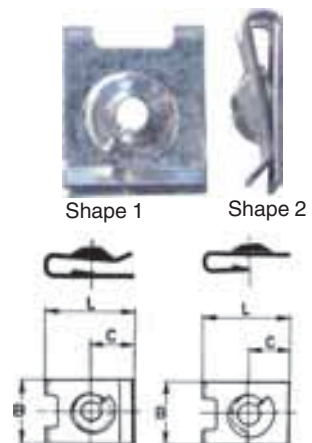
Art. No. 2290 39 2, 2290 65 2:

• Shape 2

Article No.	Dimension	QTY
2290 29	2,9	H 300
2290 35	3,5	H 300
2290 39	3,9	H 300
2290 39 2	3,9	H 300
2290 42	4,2	H 300
2290 42 1	4,2	H 300
2290 48	4,8	H 300
2290 48 1	4,8	H 300
2290 48 2	4,8	H 300
2290 48 3	4,8	H 300
2290 55	5,5	H 300
2290 56	5,6	H 300
2290 63	6,3	H 300
2290 65	6,5	H 300
2290 65 2	6,5	H 300

Technical Data

For screw-Ø mm	L mm	B mm	C mm
2.90	12.00	11.00	6.00
3.50	16.50	11.00	8.00
3.90	16.50	11.30	8.00
3.90	15.00	12.50	7.00
4.20	16.50	11.20	8.00
4.20	24.50	11.00	7.50
4.80	16.00	14.50	6.50
4.80	16.50	11.30	8.00
4.80	18.25	16.00	9.50
4.80	20.00	12.00	9.00
5.50	26.00	14.80	8.00
5.60	20.20	13.30	8.50
6.30	27.00	14.20	12.00
6.50	25.20	16.20	11.00
6.50	25.00	14.80	11.00



Sheet-Metal Nuts, Galvanized Steel in Assortment

- 2.9 - 6.5 = 650 pieces

Article No.	Article Description	QTY
9000 2290	ASSORTMENT SHEET-METAL NUTS	1
9000R 2290	TRAY SHEET-METAL NUTS	1



Sheet-Metal Nuts, Spring Steel DIN 17222, Galv. St

• Application: For material thickness 0.5-1.8 mm

• Galvanized steel

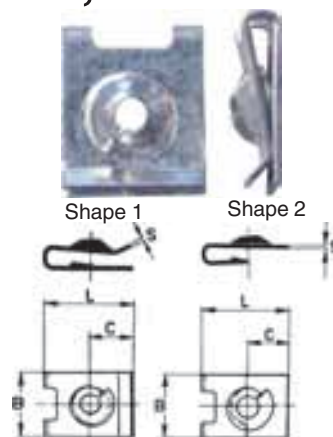
Art. No. 2290 39 2, 2290 65 2:

• Shape 2

Article No.	Dimension	QTY
2290 29	2,9	H 300
2290 35	3,5	H 300
2290 39	3,9	H 300
2290 39 2	3,9	H 300
2290 42	4,2	H 300
2290 42 1	4,2	H 300
2290 48	4,8	H 300
2290 48 1	4,8	H 300
2290 48 2	4,8	H 300
2290 48 3	4,8	H 300
2290 55	5,5	H 300
2290 56	5,6	H 300
2290 63	6,3	H 300
2290 65	6,5	H 300
2290 65 2	6,5	H 300

Specifications

For screw dia. mm	L mm	B mm	C mm
2.90	12.00	11.00	6.00
3.50	16.50	11.00	8.00
3.90	16.50	11.30	8.00
3.90	15.00	12.50	7.00
4.20	16.50	11.20	8.00
4.20	24.50	11.00	7.50
4.80	16.00	14.50	6.50
4.80	16.50	11.30	8.00
4.80	18.25	16.00	9.50
4.80	20.00	12.00	9.00
5.50	26.00	14.80	8.00
5.60	20.20	13.30	8.50
6.30	27.00	14.20	12.00
6.50	25.20	16.20	11.00
6.50	25.00	14.80	11.00



Sheet-Metal Nuts, Galvanized Steel in Assortment

• 2.9 - 6.5 = 650 pieces

Article No.	Article Description	QTY
9000 2290	ASSORTMENT SHEET-METAL NUTS	1
9000R 2290	TRAY SHEET-METAL NUTS	1



DIN Package Hex Nuts DIN 934

- Galvanized steel

Article No.	Article Description	QTY
2001P 1	DIN-ASSORTMENT 2001	1

Content:

Article No.	Article Description	Quantity
2001 5	HEX NUT 934-8 GA M 5	500
2001 6	HEX NUT 934-8 GA M 6	300
2001 8	HEX NUT 934-8 GA M 8	300
2001 10	HEX NUT 934-8 GA M 10	100
2001 12	HEX NUT 934-8 GA M 12	50



DIN Package Hex Nuts DIN 934 and Washers

Article No.	Article Description	QTY
2098P 1	DIN PACKAGE2001.2301.2501.2351	1

Content :

Article No.	Article Description	Quantity
2001 5	HEX NUT 934-8 GA M 5	500
2001 6	HEX NUT 934-8 GA M 6	300
2001 8	HEX NUT 934-8 GA M 8	300
2001 10	HEX NUT 934-8 GA M 10	100
2301 5	WASHER 125 A GA 5	500
2301 6	WASHER 125 A GA 6	300
2301 8	WASHER 125 A GA 8	300
2301 10	WASHER 125 A GA 10	100
2331 5 20	PANEL REP WASHER GA 5X20	300
2331 6 20	PANEL REP WASHER GA 6X20	300
2331 8 25	PANEL REP WASHER GA 8X25	300
2331 10 30	PANEL REP WASHER GA 10X30	300
2501 5	LOCK WASHER 127 GA 5	500
2501 6	LOCK WASHER 127 GA 6	300
2501 8	LOCK WASHER 127 GA 8	300
2501 10	LOCK WASHER 127 GA 10	100



DIN Package Hex Head Bolts DIN 933 8.8 Galvanized

- DIN Package Hex Head Machine Screws DIN 933 8.8, Galvanized

Article No.	Article Description	QTY
1011P 1	DIN-ASSORTMENT 1011	1

Content :

Article No.	Article Description	Quantity
1011 5 16	HEX HD M.SREW 933 8.8 GA 5X 16	200
1011 5 20	HEX HD M.SCREW933 8.8 GA 5X 20	200
1011 6 16	HEX HD M.SCREW933 8.8 GA 6X 16	200
1011 6 20	HEX HD M.SCREW933 8.8 GA 6X 20	200
1011 6 25	HEX HD M.SCREW933 8.8 GA 6X 25	100
1011 8 20	HEX HD M.SCREW933 8.8 GA 8X 20	100
1011 8 25	HEX HD M.SCREW933 8.8 GA 8X 25	100
1011 8 30	HEX HD M.SCREW933 8.8 GA 8X 30	100
1011 10 30	HEX HD M.SCREW933 8.8 GA 10X30	50



DIN Parts Rack

- The item is always ready to hand in the DIN Parts Rack (H 900 x B 1020 mm) and
- Consists of a high quality steel rack with 72 visible storage boxes (L 160/140 x W 100 x D 75 mm, made of impact-proof polystyrene) and diverse DIN parts, zinc plated

Article No.	Article Description	QTY
9052 64	DIN PARTS RACK GALVANIZED	1

Contents part no. 9052 64:

Article No.	Article Description	Quantity
1011 5 16	HEX HD M.SREW 933 8.8 GA 5X 16	100
1011 5 20	HEX HD M.SCREW933 8.8 GA 5X 20	100
1011 5 30	HEX HD SCR. 933 8.8 ZI 5X 30	100
1011 6 16	HEX HD M.SCREW933 8.8 GA 6X 16	100
1011 6 20	HEX HD M.SCREW933 8.8 GA 6X 20	100
1011 6 25	HEX HD M.SCREW933 8.8 GA 6X 25	100
1011 6 30	HEX HD SCR. 933 8.8 ZI 6X 30	100
1011 6 40	HEX HD SCR. 933 8.8 ZI 6X 40	100
1011 8 16	HEX HD SCR. 933 8.8 ZI 8X 16	100
1011 8 20	HEX HD SCREW933 8.8 GA 8X 20	100
1011 8 25	HEX HD M.SCREW933 8.8 GA 8X 25	100
1011 8 30	HEX HD M.SCREW933 8.8 GA 8X 30	100
1011 8 40	HEX HD M.SCREW933 8.8 GA 8X 40	50
1011 8 50	HEX HD M.SCREW933 8.8 GA 8X 50	50
1011 10 25	HEX HD M.SCREW933 8.8 GA 10X25	50
1011 10 30	HEX HD M.SCREW933 8.8 GA 10X30	25
1011 10 35	HEX HD M.SCREW933 8.8 GA 10X35	25
1011 10 40	HEX HD M.SCREW933 8.8 GA 10X40	25
1011 10 50	HEX HD M.SCREW933 8.8 GA 10X50	25
2001 5	HEX NUT 934-8 GA M 5	100
2001 6	HEX NUT 934-8 GA M 6	100
2001 8	HEX NUT 934-8 GA M 8	100
2001 10	HEX NUT 934-8 GA M 10	50
2001 12	HEX NUT 934-8 GA M 12	25
2301 5	WASHER 125 A GA 5	100
2301 6	WASHER 125 A GA 6	100
2301 8	WASHER 125 A GA 8	100
2301 10	WASHER 125 A GA 10	100
2301 12	WASHER 125 A GA 12	100
2331 5 20	PANEL REP WASHER GA 5X20	100
2331 6 20	PANEL REP WASHER GA 6X20	100
2331 8 25	PANEL REP WASHER GA 8X25	100
2331 10 30	PANEL REP WASHER GA 10X30	100
2501 5	LOCK WASHER 127 GA 5	100
2501 6	LOCK WASHER 127 GA 6	100
2501 8	LOCK WASHER 127 GA 8	100
2501 10	LOCK WASHER 127 GA 10	100
2501 12	LOCK WASHER 127 GA 12	100



Washers DIN 125 Shape A, Plastic

- In compliance with ISO 7089
- Plastic

Article No.	Dimension	QTY
2309 3	3	100
2309 4	4	100
2309 5	5	100
2309 6	6	100
2309 8	8	100
2309 10	10	100
2309 12	12	100
2309 16	16	100
2309 20	20	100
2309 24	24	100

Specifications

For thread	d1	d2	h
Dia. mm	mm	mm	mm
M 3	3.2	7	0.5
M 4	4.3	9	0.8
M 5	5.3	10	1.0
M 6	6.4	12	1.6
M 8	8.4	16	1.6
M 10	10.5	20	2.0
M 12	13.0	24	2.5
M 16	15.0	28	2.5
M 20	17.0	30	3.0
M 24	21.0	37	3.0



Washers DIN 125 Shape A, Blank

- In compliance with ISO 7089
- Blank steel

Article No.	Dimension	QTY
2300 3	3	F 1000
2300 4	4	F 1000
2300 5	5	F 1000
2300 6	6	RF 1000
2300 8	8	HRF 1000
2300 10	10,5	HRF 1000
2300 12	12	HRF 1000
2300 14	14	HR 500
2300 16	16	HR 500
2300 18	18	f 100
2300 20	20	f 100
2300 24	24	50

Specifications

For Thread	d1	d2	h
mm	mm	mm	mm
M 3	3.2	7	0.5
M 4	4.3	9	0.8
M 5	5.3	10	1.0
M 6	6.4	12	1.6
M 8	8.4	16	1.6
M 10	10.5	20	2.0
M 12	13.0	24	2.5
M 14	15.0	28	2.5
M 16	17.0	30	3.0
M 18	19.0	34	3.0
M 20	21.0	37	3.0
M 24	25.0	44	4.0



Washers DIN 125 Shape A, Galvanized

- In compliance with ISO 7089
- Galvanized steel

Article No.	Dimension	QTY
2301 2	2	1000
2301 25	2,5	1000
2301 3	3	HRF 1000
2301 4	4	HRF 1000
2301 5	5	HRF 1000
2301 6	6	HRF 1000
2301 7	7	HR 500
2301 8	8	HRF 1000
2301 10	10	HRF 1000
2301 12	12	HRF 1000
2301 14	14	HR 500
2301 16	16	HR 500
2301 18	18	f 100
2301 20	20	f 100
2301 22	22	f 100
2301 24	24	50
2301 27	27	50
2301 30	30	g 50
2301 32	32	g 50
2301 36	36	25
2301 40	40	25
2301 42	42	25
2301 50	50	10

Specifications

For Thread	d1	d2	h
mm	mm	mm	mm
M 2	2.2	5	0.3
M 2.5	2.7	6	0.5
M 3	3.2	7	0.5
M 4	4.3	9	0.8
M 5	5.3	10	1.0
M 6	6.4	12	1.6
M 7	7.4	14	1.6
M 8	8.4	16	1.6
M 10	10.5	20	2.0
M 12	13.0	24	2.5
M 14	15.0	28	2.5
M 16	17.0	30	3.0
M 18	19.0	34	3.0
M 20	21.0	37	3.0
M 22	23.0	39	3.0
M 24	25.0	44	4.0
M 27	28.0	50	4.0
M 30	31.0	56	4.0
M 32	33.0	60	5.0
M 36	37.0	66	5.0
M 40	41.0	72	6.0
M 42	43.0	78	7.0
M 50	52.0	92	8.0



Washers DIN 125 Shape A, Galvanized in Assortment

- For M4 - M6 = 1050 pieces

Article No.	Article Description	QTY
9000 2301	ASS. WASHERS DIN 125 A GA	1
9000R 2301	TRAY WASHER DIN125 A GA	1



Washers DIN 125 Shape A, Brass

- In compliance with ISO 7089
- Brass

Article No.	Dimension	QTY
2307 3	3	HRF 1000
2307 4	4	HRF 1000
2307 5	5	HRF 1000
2307 6	6	HRF 1000
2307 8	8	HRF 1000
2307 10	10	HRF 1000
2307 12	12	fH 300
2307 14	14	fH 300
2307 16	16	300
2307 20	20	50

Specifications

For thread	d1	d2	h
Dia. mm	mm	mm	mm
M 3	3.2	7	0.5
M 4	4.3	9	0.8
M 5	5.3	10	1.0
M 6	6.4	12	1.6
M 8	8.4	16	1.6
M 10	10.5	20	2.0
M 12	13.0	24	2.5
M 14	15.0	28	2.5
M 16	17.0	30	3.0
M 20	21.0	37	3.0



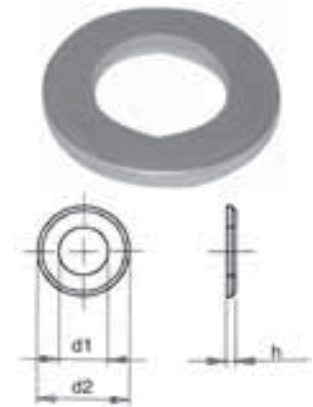
Washers DIN 125 Shape B, Galvanized

- In compliance with ISO 7090
- Galvanized steel

Article No.	Dimension	QTY
2303 4	4	RF 1000
2303 5	5	HRF 1000
2303 6	6	RF 1000
2303 8	8	HRF 1000
2303 10	10	HRF 1000
2303 12	12	HRF 1000
2303 14	14	HR 500
2303 16	16	HR 500
2303 18	18	f 100
2303 20	20	f 100
2303 22	22	f 100
2303 24	24	50
2303 27	27	50
2303 30	30	gf 100
2303 32	32	g 50
2303 36	36	50
2303 40	40	25
2303 42	42	25

Specifications

For thread	d1	d2	h
Dia. mm	mm	mm	mm
M 4	4.3	9	0.8
M 5	5.3	10	1.0
M 6	6.4	12	1.6
M 8	8.4	16	1.6
M 10	10.5	20	2.0
M 12	13.0	24	2.5
M 14	15.0	28	2.5
M 16	17.0	30	3.0
M 18	19.0	34	3.0
M 20	21.0	37	3.0
M 22	23.0	39	3.0
M 24	25.0	44	4.0
M 27	28.0	50	4.0
M 30	31.0	56	4.0
M 32	33.0	60	5.0
M 36	37.0	66	5.0
M 40	41.0	72	6.0
M 42	43.0	78	7.0



Washers DIN 125 B, Galvanized in Assortment

- For M4 - M6 = 1050 pieces

Article No.	Article Description	QTY
9000 2303	ASS. WASHERS DIN 125 B GA	1
9000R 2303	TRAY WASHERS 125 B GA	1



Lock Washers DIN 137 A, Galvanized

- Arched
- Galvanized steel

Article No.	Dimension	QTY
2321 3	3	HR 500
2321 4	4	HR 500
2321 5	5	HR 500
2321 6	6	HR 500
2321 8	8	HR 500
2321 10	10	HR 500

Specifications

For thread	d1	d2	h max.
Dia. mm	mm	mm	mm
M 3	3.2	6	1.3
M 4	4.3	8	1.6
M 5	5.3	10	1.8
M 6	6.4	11	2.2
M 8	8.4	15	3.4
M 10	10.5	18	4.0



Lock Washers DIN 137 B, Galvanized

- Wave shape
- Galvanized steel

Article No.	Dimension	QTY
2322 3	3	HR 500
2322 4	4	HR 500
2322 5	5	HR 500
2322 6	6	HR 500
2322 7	7	HR 500
2322 8	8	HR 500
2322 10	10	HR 500
2322 12	12	HR 500
2322 14	14	H 300
2322 16	16	H 300
2322 18	18	H 300
2322 20	20	H 300
2322 24	24	100

Specifications

For Thread	d1	d2	h max.
Dia. mm	mm	mm	mm
M 3	3.2	8	1.6
M 4	4.3	9	2.0
M 5	5.3	11	2.2
M 6	6.4	12	2.6
M 7	7.4	14	3.0
M 8	8.4	15	3.0
M 10	10.5	21	4.2
M 12	13.0	24	5.0
M 14	15.0	28	6.0
M 16	17.0	30	6.4
M 18	19.0	34	6.6
M 20	21.0	36	7.4
M 24	25.0	44	8.2



Wavy Washers DIN 137 A/B, Zinc Plated

- M3 - M12 = 2050 pieces

Article No.	Article Description	QTY
9000 232	ASS.WAVE WASHERS 137 A/B GA	1
9000R 232	TRAY WAVE WASHER 137 A/B GA	1



Large Diameter Washers, Galvanized

- Galvanized steel



Article No.	Dimension	QTY
2331 4 12	4 x 12	HRF 1000
2331 4 15	4 x 15	HRF 1000
2331 4 20	4 x 20	HRF 1000
2331 4 25	4 x 25	HRF 1000
2331 4 30	4 x 30	HR 500
2331 5 12	5 x 12	HRF 1000
2331 5 15	5 x 15	HRF 1000
2331 5 20	5 x 20	HRF 1000
2331 5 25	5 x 25	HR 500
2331 5 30	5 x 30	HR 500
2331 6 15	6 x 15	HRF 1000
2331 6 18	6 x 18	HRF 1000
2331 6 20	6 x 20	HRF 1000
2331 6 25	6 x 25	HRF 1000
2331 6 30	6 x 30	HR 500
2331 7 15	7 x 15	HR 500
2331 7 20	7 x 20	HR 500
2331 7 25	7 x 25	HR 500

Article No.	Dimension	QTY
2331 7 30	7 x 30	HR 500
2331 8 20	8 x 20	HRF 1000
2331 8 25	8 x 25	HRF 1000
2331 8 30	8 x 30	HR 500
2331 8 35	8 x 35	HR 500
2331 8 40	8 x 40	H 300
2331 10 20	10 x 20	H 300
2331 10 25	10 x 25	HR 500
2331 10 30	10 x 30	HR 500
2331 10 35	10 x 35	H 300
2331 10 40	10 x 40	H 300
2331 12 30	12 x 30	H 300
2331 12 40	12 x 40	H 300
2331 14 30	14 x 30	H 300
2331 14 40	14 x 40	H 300
2331 16 30	16 x 30	H 300
2331 16 40	16 x 40	H 300
2331 16 50	16 x 50	H 300

(for M-type screws M x d2 mm)

Specifications

For thread	d2	h
Dia. mm	mm	mm
M 4	4.3	1.25
M 5	5.3	1.25
M 6	6.4	1.25
M 7	7.4	1.25
M 8	8.4	1.25
M 10	10.5	1.25
M 12	13.0	1.25
M 14	15.0	2.00
M 16	17.0	2.00

Large Diameter Washers, Galvanized, Assortment

- 5 x 20 - 10 x 40 = 900 pieces

Article No.	Article Description	QTY
9000 2331	ASS.LG DIA WASHERS GA	1
9000R 2331	TRAY LG DIA WASHERS GA	1



Washers DIN 7349, Galvanized

- Washers for bolts with heavy clamping sleeves
- Galvanized steel

Article No.	Dimension	QTY
2378 3	3	100
2378 4	4	100
2378 5	5	100
2378 6	6	100
2378 8	8	100
2378 10	10	100
2378 12	12	100
2378 14	14	100
2378 16	16	100
2378 18	18	100
2378 20	20	100

(for M-type screws)

Specifications

For thread	d1	d2	h
Dia. mm	mm	mm	mm
M 3	3.2	9	1
M 4	4.3	12	1.6
M 6	6.4	17	3
M 8	8.4	21	4
M 10	10.5	25	4
M 12	13.0	30	6
M 16	17.0	40	6
M 18	19.0	44	8
M 20	21.0	44	8



Washers DIN 9021, Plastic

Article No.	Dimension	QTY
2313 5	5	1000
2313 6	6	1000
2313 8	8	500
2313 10	10	500
2313 12	12	200
2313 16	16	100

(for M-type screws)

Specifications

For thread	d1	d2	h
Dia. mm	mm	mm	mm
M 5	5.3	15	1.6
M 6	6.4	18	1.6
M 8	8.4	25	2.0
M 10	10.5	30	2.5
M 12	13.0	40	3.0
M 16	17.0	50	3.0



Washers DIN 9021, Galvanized

Article No.	Dimension	QTY
2311 3	3	RF 1000
2311 35	3,5	1000
2311 4	4	RF 1000
2311 5	5	RF 1000
2311 6	6	RF 1000
2311 8	8	HRF 1000
2311 10	10	HR 500
2311 12	12	H 300
2311 14	14	100
2311 16	16	100
2311 18	18	100
2311 20	20	100
2311 24	24	50

(for M-type screws)

Specifications

For thread-Ø	d1	d2	h
mm	mm	mm	mm
M 3	3.2	9	0.8
M 3.5	3.7	11	0.8
M 4	4.3	12	1.0
M 5	5.3	15	1.6
M 6	6.4	18	1.6
M 8	8.4	25	2.0
M 10	10.5	30	2.5
M 12	13.0	40	3.0
M 14	15.0	45	3.0
M 16	17.0	50	3.0
M 18	20.0	55	4.0
M 20	22.0	60	4.0
M 24	26.0	72	5.0



Washers DIN 9021, Galvanized, Assortment

- In compliance with ISO 7093
- For M4 - M16 = 545 pieces

Article No.	Article Description	QTY
9000 2311	ASS. WASHERS DIN9021 GA	1
9000R 2311	TRAY WASHERS DIN9021 GA	1



Washers DIN 440, Galvanized

Article No.	Dimension	QTY
2376 5	5	100
2376 6	6	100
2376 8	8	100
2376 10	10	100
2376 12	12	100
2376 16	16	100
2376 20	20	25
2376 22	22	50
2376 24	24	25
2376 27	27	50
2376 30	30	25

(for M-type screws)

Specifications

For thread	d1	d2	s
Dia. mm	mm	mm	mm
M 5	5.5	18	2
M 6	6.6	22	2
M 8	9.0	28	3
M 10	11.0	34	3
M 12	14.0	45	4
M 16	18.0	58	5
M 20	22.0	68	5
M 22	24.0	80	6
M 24	26.0	92	6
M 27	30.0	98	6
M 30	33.0	105	6



Washers DIN 1052, Galvanized

- Washers for wood connectors
- Galvanized steel

Article No.	Dimension	QTY
2318 12	12	50
2318 16	16	50
2318 20	20	25
2318 22	22	25
2318 24	24	25

Specifications

For thread	d1	d2	s
Dia. mm	mm	mm	mm
M 12	14	58	6
M 16	18	68	6
M 20	23	80	8
M 22	25	92	8
M 24	27	105	8



Washers DIN 6340, Galvanized

- For use primarily as washer for clamps
- Shape F
- Hardened, galvanized steel

Article No.	Dimension	QTY
2380 6	6	100
2380 8	8	100
2380 10	10	100
2380 12	12	100
2380 14	14	100
2380 16	16	100
2380 20	20	100
2380 24	24	50

(For M-type screws)

Specifications			
For thread	d1	d2	h
Dia. mm	mm	mm	mm
M 6	6.4	17	3
M 8	8.4	23	4
M 10	10.5	28	4
M 12	13.0	35	5
M 14	15.0	40	5
M 16	17.0	45	6
M 20	21.0	50	6
M 24	25.0	60	8



Square Washers DIN 434, Galvanized

- Conical with two grooves / primarily for U-sections
- Galvanized steel

Article No.	Dimension	QTY
2370 8	8	100
2370 10	10	100
2370 12	12	100
2370 16	16	100
2370 20	20	100

(For M-type screws)

Specifications					
For thread	d	a	b	S1	S2
Dia. mm	mm	mm	mm	mm	mm
M 8	9	22	22	3.8	2.0
M 10	11	22	22	3.8	2.0
M 12	14	26	30	4.9	2.5
M 16	18	32	36	5.9	3.0
M 20	22	40	44	7.0	3.5



Square Washers DIN 435, Galvanized

- Conical with two grooves / primarily for U-sections
- Galvanized steel

Article No.	Dimension	QTY
2372 10	10	100
2372 12	12	100
2372 16	16	100
2372 20	20	100

(For M-type screws)

Specifications					
For thread	d	a	b	S1	S2
Dia. mm	mm	mm	mm	mm	mm
M 10	11	22	22	4.6	1.5
M 12	14	26	30	6.2	2.0
M 16	18	32	36	7.5	2.5
M 20	22	40	44	9.2	3.0



Square Washers DIN 436, Galvanized

- Primarily for wood constructions
- Galvanized

Article No.	Dimension	QTY
2374 10	10	100
2374 12	12	100
2374 16	16	100
2374 20	20	100
2374 22	22	100

(For M-type screws)

Specifications			
For thread	d	a	s
Dia. mm	mm	mm	mm
M 10	11	30	3
M 12	14	40	4
M 16	18	50	5
M 20	22	60	5
M 22	24	70	6



Washers DIN 134, Galvanized

- Galvanized steel

Article No.	Dimension	QTY
2319 3	3	HRF 1000
2319 4	4	HRF 1000
2319 5	5	HRF 1000
2319 6	6	HRF 1000
2319 8	8	fHR 500
2319 10	10	fHR 500
2319 12	12	fHR 500
2319 14	14	fHR 500
2319 16	16	fHR 500
2319 18	18	gf 100
2319 20	20	gf 100

(For M-type screws)

Specifications			
For thread-Ø	d1	d2	s
Dia. mm	mm	mm	mm
M 3	3,2	8	0.5
M 4	4.3	10	0.8
M 5	5,3	12	1.0
M 6	6,4	14	1.5
M 8	8,4	18	2.0
M 10	10,5	22	2.5
M 12	13,0	28	3.0
M 14	15,0	28	3.0
M 16	17,0	34	3.0
M 18	19,0	40	4.0
M 20	21,0	40	4.0



Shims, Plain Steel

- Plain steel

Article No.	Dimension	QTY
2340 4 8 05	4 x 8 x 0,50	g 100
2340 6 12 05	6 x 12 x 0,50	100
2340 6 12 025	6 x 12 x 0,25	100
2340 6 12 10	6 x 12 x 1,00	100
2340 8 14 025	8 x 14 x 0,25	g 100
2340 8 14 05	8 x 14 x 0,50	g 100
2340 8 14 1	8 x 14 x 1,00	g 100
2340 10 16 025	10 x 16 x 0,25	g 100
2340 10 16 05	10 x 16 x 0,50	g 100
2340 10 16 1	10 x 16 x 1,00	g 100
2340 12 24 025	12 x 24 x 0,25	üg 100
2340 12 24 05	12 x 24 x 0,50	g 100
2340 12 24 1	12 x 24 x 1,00	g 100
2340 14 26 025	14 x 26 x 0,25	g 100
2340 14 26 05	14 x 26 x 0,50	g 100
2340 14 26 1	14 x 26 x 1,00	g 100
2340 16 26 025	16 x 26 x 0,25	g 100
2340 16 26 05	16 x 26 x 0,50	g 100
2340 16 26 1	16 x 26 x 1,00	g 100
2340 18 30 025	18 x 30 x 0,25	g 100
2340 18 30 05	18 x 30 x 0,50	g 100
2340 18 30 1	18 x 30 x 1,00	g 100
2340 20 32 025	20 x 32 x 0,25	g 100
2340 20 32 05	20 x 32 x 0,50	g 100
2340 20 32 1	20 x 32 x 1,00	g 100
2340 22 34 025	22 x 34 x 0,25	g 100
2340 22 34 05	22 x 34 x 0,50	üg 100
2340 22 34 1	22 x 34 x 1,00	g 100
2340 24 36 025	24 x 36 x 0,25	üg 100

(d1 x d2 x h mm)

Article No.	Dimension	QTY
2340 24 36 05	24 x 36 x 0,50	g 100
2340 24 36 1	24 x 36 x 1,00	g 100
2340 25 35 025	25 x 35 x 0,25	g 100
2340 25 35 05	25 x 35 x 0,50	g 100
2340 25 35 1	25 x 35 x 1,00	g 100
2340 26 40 025	26 x 40 x 0,25	g 100
2340 26 40 05	26 x 40 x 0,50	g 100
2340 26 40 1	26 x 40 x 1,00	g 100
2340 28 40 025	28 x 40 x 0,25	g 100
2340 28 40 05	28 x 40 x 0,50	g 100
2340 28 40 1	28 x 40 x 1,00	g 100
2340 30 42 025	30 x 42 x 0,25	g 100
2340 30 42 05	30 x 42 x 0,50	g 100
2340 30 42 1	30 x 42 x 1,00	g 100
2340 30 50 05	30 x 50 x 0,50	g 100
2340 30 50 1	30 x 50 x 1,00	g 100
2340 32 44 025	32 x 44 x 0,25	g 100
2340 32 44 1	32 x 44 x 1,00	g 100
2340 34 46 025	34 x 46 x 0,25	g 100
2340 34 46 05	34 x 46 x 0,50	g 100
2340 34 46 1	34 x 46 x 1,00	g 100
2340 36 48 025	36 x 48 x 0,25	g 100
2340 36 48 05	36 x 48 x 0,50	g 100
2340 38 50 025	38 x 50 x 0,25	g 100
2340 38 50 05	38 x 50 x 0,50	g 100
2340 38 50 1	38 x 50 x 1,00	g 100
2340 40 52 025	40 x 52 x 0,25	g 100
2340 40 52 05	40 x 52 x 0,50	g 100
2340 40 52 1	40 x 52 x 1,00	g 100



Shims, Dia. 10 - 20 mm, Plain Steel, Assortment

- Plain steel
- Contents 360 pieces

Article No.	Article Description	QTY
9000R 2340	TRAY SHIMS 10-20MM	1
9000 2340	ASS.SHIMS 10-20MM	1



Shims, Dia. 22 - 32 mm, Plain Steel

- Plain steel
- Contents 270 pieces

Article No.	Article Description	QTY
9000R 2340 1	TRAY SHIMS 22-32MM	1
9000 2340 1	ASS.SHIMS 22-32MM	1



Shims, Dia. Dia. 34 - 40 mm, Plain Steel

- Plain steel
- Contents 180 pieces

Article No.	Article Description	QTY
9000R 2340 2	TRAY SHIMS 34-40MM	1
9000 2340 2	ASS.SHIMS 34-40MM	1



Spring Lock Washers DIN 127, Galvanized

- Shape B
- Galvanized steel

Article No.	Dimension	QTY
2501 3	3	HRF 1000
2501 35	3,5	RF 1000
2501 4	4	HRF 1000
2501 5	5	HRF 1000
2501 6	6	HRF 1000
2501 7	7	H 300
2501 8	8	HRF 1000
2501 10	10	HRF 1000
2501 12	12	HRF 1000
2501 14	14	HR 500
2501 16	16	HR 500
2501 18	18	f 100
2501 20	20	f 100
2501 22	22	f 100
2501 24	24	50
2501 27	27	50
2501 30	30	50
2501 33	33	50
2501 36	36	50

(for M-type screws)

Specifications

For thread dia. mm	d1 min. mm	d2 max. mm	b mm	s mm	h max. mm
M 3	3.1	6.2	1.3	0.8	1.9
M 3.5	3.6	6.7	1.3	0.8	1.9
M 4	4.1	7.6	1.5	0.9	2.1
M 5	5.1	9.2	1.8	1.2	2.8
M 6	6.1	11.8	2.5	1.6	3.8
M 7	7.1	12.8	2.5	1.6	3.8
M 8	8.1	14.8	3.0	2.0	4.7
M 10	10.2	18.1	3.5	2.2	5.2
M 12	12.2	21.1	4.0	2.5	5.9
M 14	14.2	24.1	4.5	3.0	7.1
M 16	16.2	27.4	5.0	3.5	8.3
M 18	18.2	29.4	5.0	3.5	8.3
M 20	20.2	33.6	6.0	4.0	9.4
M 22	22.5	35.9	6.0	4.0	9.4
M 24	24.5	40.0	7.0	5.0	11.8
M 27	27.5	43.0	7.0	5.0	11.8
M 30	30.5	48.2	8.0	6.0	14.2
M 33	33.5	55.2	10.0	6.0	14.2
M 36	36.5	58.2	10.0	6.0	14.2



Spring Lock Washers DIN 7980, Galvanized

- For machine schrews
- Galvanized steel

Article No.	Dimension	QTY
2521 3	3	HR 500
2521 4	4	HR 500
2521 5	5	HR 500
2521 6	6	HR 500
2521 8	8	HR 500
2521 10	10	HR 500
2521 12	12	H 300
2521 14	14	100
2521 16	16	100
2521 18	18	100
2521 20	20	100
2521 22	22	100
2521 24	24	100

(for M-type screws)

Specifications

For thread dia. mm	d1 min. mm	d2 max. mm	s mm	h min. mm
M 3	3.1	5.6	1.0	2.0
M 4	4.1	7.0	1.2	2.4
M 5	5.1	8.8	1.6	3.2
M 6	6.1	9.9	1.6	3.2
M 8	8.1	12.7	2.0	4.0
M 10	10.2	16.0	2.5	5.0
M 12	12.2	18.0	2.5	5.0
M 14	14.2	21.1	3.0	6.0
M 16	16.2	24.4	3.5	7.0
M 18	18.2	26.4	3.5	7.0
M 20	20.2	30.6	4.5	9.0
M 22	22.5	32.9	4.5	9.0
M 24	24.5	35.9	5.0	10.0



Serrated Lock Washers DIN 6798 IZ, Galvanized

- Shape IZ – internal teeth
- Galvanized steel

Article No.	Dimension	QTY
2351 3	2,5	100
2351 4	3	100
2351 5	4	100
2351 6	5	100
2351 7	6	100
2351 8	7	100
2351 10	8	100
2351 12	10	100
2351 14	12	100
2351 16	14	100
2351 18	16	100
2351 20	18	100
2351 22	20	100
2351 24	22	100

(for M-type screws)

Specifications

Suitable for thread-Ø	d1	d2	s1
mm	mm	mm	mm
M 3	3,2	6,0	0,4
M 4	4,3	8,0	0,5
M 5	5,3	10,0	0,5
M 6	6,4	11,0	0,7
M 7	7,4	12,5	0,8
M 8	8,4	15,0	0,8
M 10	10,5	18,0	0,9
M 12	12,5	20,5	1,0
M 14	14,5	24,0	1,0
M 16	16,5	26,0	1,2
M 18	19,0	30,0	1,4
M 20	21,0	33,0	1,4
M 22	23,0	36,0	1,5
M 24	25,0	38,0	1,4



Serrated Lock Washers DIN 6798 AZ, Galvanized

- Shape AZ – external teeth
- Galvanized steel

Article No.	Dimension	QTY
2352 25	2,5	100
2352 3	3	100
2352 4	4	100
2352 5	5	100
2352 6	6	100
2352 7	7	100
2352 8	8	100
2352 10	10	100
2352 12	12	100
2352 14	14	100
2352 16	16	100
2352 18	18	100
2352 20	20	100
2352 22	22	100

(for M-type screws)

Specifications			
For thread	d1	d2	s1
dia. mm	mm	mm	mm
M 2.5	2.7	5.5	0.4
M 3	3.2	6.0	0.4
M 4	4.3	8.0	0.5
M 5	5.3	10.0	0.5
M 6	6.4	11.0	0.7
M 7	7.4	12.5	0.8
M 8	8.4	15.0	0.8
M 10	10.5	18.0	0.9
M 12	12.5	20.5	1.0
M 14	14.5	24.0	1.0
M 16	16.5	26.0	1.2
M 18	19.0	30.0	1.4
M 20	21.0	33.0	1.4
M 22	23.0	36.0	1.5



Cup Washers, Brass, Black Gunmetal Finish

Article No.	Dimension	QTY
2390 4094	9,0 x 4,0	100
2390 4115	11,0 x 5,0	100
2390 4125	12,7 x 4,8	100
2390 4136	13,0 x 6,0	100
2390 4157	15,0 x 7,0	100

Specifications		
OD	ID	Thickness
mm	mm	mm
9.0	4.0	2.6
11.0	5.0	2.4
12.7	4.8	2.7
13.0	6.0	3.0
15.0	7.0	3.4



Cup Washers, Brass, Nickel Plated

Article No.	Dimension	QTY
2391 4094	9,0 x 4,0	100
2391 4115	11,0 x 5,0	100
2391 4125	12,7 x 4,8	100
2391 4136	13,0 x 6,0	100
2391 4157	15,0 x 7,0	100

Specifications		
OD	ID	Thickness
mm	mm	mm
9.0	4.0	2.6
11.0	5.0	2.4
12.7	4.8	2.7
13.0	6.0	3.0
15.0	7.0	3.4



Cup Washers, Black/Nickel Plated, Assortment

- 4x9 - 7x15 = 410 pieces

Article No.	Article Description	QTY
9000 239	ASSORTMENT CUP WASHERS	1
9000R 239	TRAY CUP WASHERS	1

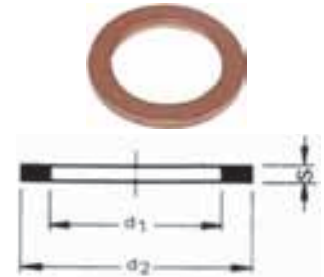


Sealing Rings DIN 7603 Shape A, Solid Copper

Article No.	Dimension	QTY
2600 4 8	4 x 8 x 1,0	100
2600 5 9	5 x 9 x 1,0	fH 300
2600 6 10	6 x 10 x 1,0	fH 300
2600 6 12	6 x 12 x 1,0	fH 300
2600 8 115	8 x 11,5 x 1,0	fH 300
2600 8 12	8 x 12 x 1,0	fH 300
2600 8 14	8 x 14 x 1,0	fH 300
2600 10 135	10 x 13,5 x 1,0	fH 300
2600 10 14	10 x 14 x 1,0	fH 300
2600 10 15	10 x 15 x 1,0	fH 300
2600 10 16	10 x 16 x 1,0	fH 300
2600 10 18	10 x 18 x 1,0	fH 300
2600 10 20	10 x 20 x 1,0	fH 300
2600 12 155	12 x 15,5 x 1,5	fH 300
2600 12 16	12 x 16 x 1,5	fH 300
2600 12 17	12 x 17 x 1,5	fH 300
2600 12 18	12 x 18 x 1,5	fH 300
2600 12 20	12 x 20 x 1,5	fH 300
2600 13 18	13 x 18 x 1,5	fH 300
2600 13 19	13 x 19 x 1,5	fH 300
2600 14 18	14 x 18 x 1,5	fH 300
2600 14 20	14 x 20 x 1,5	H 300
2600 14 22	14 x 22 x 1,5	fH 300
2600 16 20	16 x 20 x 1,5	fH 300
2600 16 22	16 x 22 x 1,5	fH 300
2600 16 24	16 x 24 x 1,5	fH 300

(d1 x d2 x s mm)

Article No.	Dimension	QTY
2600 17 21	17 x 21 x 1,5	fH 300
2600 17 23	17 x 23 x 1,5	fH 300
2600 18 22	18 x 22 x 1,5	fH 300
2600 18 24	18 x 24 x 1,5	fH 300
2600 20 24	20 x 24 x 1,5	fH 300
2600 20 26	20 x 26 x 1,5	fH 300
2600 21 26	21 x 26 x 1,5	fH 300
2600 22 27	22 x 27 x 1,5	fH 300
2600 22 28	22 x 28 x 1,5	fH 300
2600 22 29	22 x 29 x 1,5	fH 300
2600 24 29	24 x 29 x 2,0	fH 300
2600 24 30	24 x 30 x 2,0	fH 300
2600 24 32	24 x 32 x 2,0	fH 300
2600 26 32	26 x 32 x 2,0	fH 300
2600 26 34	26 x 34 x 2,0	f 100
2600 27 32	27 x 32 x 2,0	gf 100
2600 28 34	28 x 34 x 2,0	gf 100
2600 28 36	28 x 36 x 2,0	gf 100
2600 30 36	30 x 36 x 2,0	gf 100
2600 30 38	30 x 38 x 2,0	gf 100
2600 32 38	32 x 38 x 2,0	gf 100
2600 36 42	36 x 42 x 2,0	f 100
2600 38 44	38 x 44 x 2,0	gf 100
2600 40 47	40 x 47 x 2,0	f 100
2600 42 49	42 x 49 x 2,0	gf 100
2600 45 52	45 x 52 x 2,0	gf 100



Sealing Rings 7603 A, Copper, Assortment

• 6 x 10 - 32 x 38 = 1195 pieces

Article No.	Article Description	QTY
9000 2600	ASS.CU SEALING RINGS DIN7603	1
9000R 2600	TRAY SEALING RINGS DIN7603 CU	1

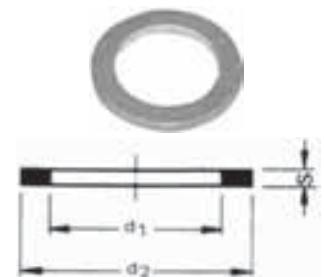


Sealing Rings DIN 7603 Shape A, Solid Alum.

Article No.	Dimension	QTY
2620 5 9	5 x 9 x 1,0	fH 300
2620 6 10	6 x 10 x 1,0	fH 300
2620 6 12	6 x 12 x 1,0	fH 300
2620 8 12	8 x 12 x 1,0	fH 300
2620 8 14	8 x 14 x 1,0	fH 300
2620 10 135	10 x 13,5 x 1,0	500
2620 10 14	10 x 14 x 1,0	fH 300
2620 10 16	10 x 16 x 1,0	fH 300
2620 12 16	12 x 16 x 1,5	fH 300
2620 12 18	12 x 18 x 1,5	fH 300
2620 12 20	12 x 20 x 1,5	fH 300
2620 14 18	14 x 18 x 1,5	fH 300
2620 14 20	14 x 20 x 1,5	fH 300
2620 14 22	14 x 22 x 1,5	fH 300
2620 16 20	16 x 20 x 1,5	fH 300

(d1 x d2 x s mm)

Article No.	Dimension	QTY
2620 16 22	16 x 22 x 1,5	fH 300
2620 18 22	18 x 22 x 1,5	fH 300
2620 18 24	18 x 24 x 1,5	fH 300
2620 20 24	20 x 24 x 1,5	fH 300
2620 20 26	20 x 26 x 1,5	fH 300
2620 22 27	22 x 27 x 1,5	fH 300
2620 22 29	22 x 29 x 1,5	fH 300
2620 24 29	24 x 29 x 2,0	fH 300
2620 24 32	24 x 32 x 2,0	fH 300
2620 26 32	26 x 32 x 2,0	fH 300
2620 26 34	26 x 34 x 2,0	fH 300
2620 28 34	28 x 34 x 2,0	gf 100
2620 32 38	32 x 38 x 2,0	gf 100
2620 38 44	38 x 44 x 2,0	gf 100
2620 45 52	45 x 52 x 2,0	gf 100



Sealing Rings DIN 7603 A, Aluminium in Assortment

• 6 x 10 - 26 x 34 = 1085 pieces

Article No.	Article Description	QTY
9000 2620	ASS.ALU SEALING RINGS DIN7603	1
9000R 2620	TRAY SEALING RINGS DIN7603 ALU	1



Sealing Rings DIN 7603 Shape C, Copper Filled

Article No.	Dimension	QTY
2610 6 10	6 x 10 x 1,5	fH 300
2610 6 12	6 x 12 x 1,5	fH 300
2610 8 12	8 x 12 x 1,5	fH 300
2610 8 14	8 x 14 x 1,5	fH 300
2610 10 14	10 x 14 x 1,5	fH 300
2610 10 16	10 x 16 x 1,5	fH 300
2610 12 16	12 x 16 x 2,0	fH 300
2610 12 18	12 x 18 x 2,0	fH 300
2610 14 18	14 x 18 x 2,0	fH 300
2610 14 20	14 x 20 x 2,0	fH 300
2610 16 20	16 x 20 x 2,0	fH 300
2610 16 22	16 x 22 x 2,0	fH 300

(d1 x d2 x s mm)

Article No.	Dimension	QTY
2610 18 22	18 x 22 x 2,0	fH 300
2610 18 24	18 x 24 x 2,0	fH 300
2610 20 24	20 x 24 x 2,0	fH 300
2610 20 26	20 x 26 x 2,0	fH 300
2610 22 27	22 x 27 x 2,0	fH 300
2610 22 29	22 x 29 x 2,0	fH 300
2610 24 32	24 x 32 x 2,5	fH 300
2610 26 32	26 x 32 x 2,5	fH 300
2610 26 34	26 x 34 x 2,5	fH 300
2610 30 36	30 x 36 x 2,5	gf 100
2610 30 38	30 x 38 x 2,5	gf 100
2610 32 38	32 x 38 x 2,5	gf 100



Sealing Rings DIN7603 C, Copper Filled, Assortment

- 6 x 10 - 24 x 32 = 535 pieces

Article No.	Article Description	QTY
9000 2610	ASS.SEAL.RINGS 7603C CU-FILL.	1
9000R 2610	TRAY SEAL.RINGS7603C CU-FILL.	1

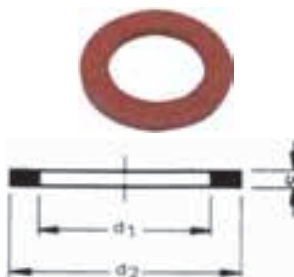


Sealing Rings DIN 7603 Shape A, Vulcanized Fibre

Article No.	Dimension	QTY
2630 5 9	5 x 9 x 1,0	fH 300
2630 6 10	6 x 10 x 1,0	fH 300
2630 6 12	6 x 12 x 1,0	fH 300
2630 8 12	8 x 12 x 1,0	fH 300
2630 8 14	8 x 14 x 1,5	fH 300
2630 10 14	10 x 14 x 1,0	fH 300
2630 10 16	10 x 16 x 1,0	fH 300
2630 12 16	12 x 16 x 1,5	fH 300
2630 12 19	12 x 19 x 1,5	fH 300
2630 12 20	12 x 20 x 1,5	fH 300

(d1 x d2 x s mm)

Article No.	Dimension	QTY
2630 14 18	14 x 18 x 1,5	fH 300
2630 14 20	14 x 20 x 1,5	fH 300
2630 15 23	15 x 23 x 1,5	fH 300
2630 16 22	16 x 22 x 1,5	fH 300
2630 18 24	18 x 24 x 1,5	fH 300
2630 20 26	20 x 26 x 1,5	fH 300
2630 20 27	20 x 27 x 1,5	fH 300
2630 20 28	20 x 28 x 1,5	fH 300
2630 22 26	22 x 26 x 1,5	fH 300
2630 22 27	22 x 27 x 1,5	fH 300



Sealing Rings DIN 7603 A, Vulcanized Fibre

- 5 x 9 - 18 x 24 = 725 pieces

Article No.	Article Description	QTY
9000 2630	ASS.SEALING RINGS 7603A VF	1
9000R 2630	TRAY SEALING RINGS 7603A VF	1



Special-Oil Sealing Rings, Assortment

- 775 pieces

Article No.	Article Description	QTY
9000 260	ASS.SPECIAL OIL SEAL.RINGS	1
9000R 260	TRAY SPEC.OIL SEAL.WASH.ASS.	1



Sealing Rings for Oil Drain Plugs, Assortment

- 12 x 18 - 22 x 27 = 600 pieces

Article No.	Article Description	QTY
9000 26	ASS.OIL DRAIN SEALING RINGS	1
9000R 26	TRAY OIL DRAIN SEALING RINGS	1



Screw Sealing Rings

Article No.	Dimension	QTY
2640 5	5,7 x 10 x 1	20
2640 6	6,7 x 10 x 1	20
2640 7	7,1 x 12 x 1	20
2640 8	8,7 x 13 x 1	f 100
2640 10	10,7 x 16 x 1,5	f 100
2640 12	12,7 x 18 x 1,5	f 100
2640 13	13,7 x 20 x 1,5	f 100
2640 14	14,7 x 22 x 1,5	f 100
2640 16	16,7 x 24 x 1,5	g 50
2640 18	18,7 x 26 x 1,5	g 50
2640 20	20,7 x 28 x 1,5	g 50
2640 22	22,7 x 30 x 2	üg 50
2640 24	24,7 x 32 x 2	g 50
2640 27	27,2 x 36 x 2	g 50

(ID x OD x Material thickness)

- Yellow galvanized steel washers with vulcanised rubber sealing lip
- For securely sealing hex head bolts without sealing flange, plugs and flange connections against high pressure and vacuum
- Reusable



Sealing Rings for Compress. Air Lines (brake ring)

Article No.	Dimension	QTY
2660 12 16	12 x 16	f 100
2660 14 18	14 x 18	f 100
2660 16 21	16 x 21	f 100
2660 18 22	18 x 22	f 100
2660 22 27	22 x 27	f 100

(ID x OD x Material thickness)

- Brass ring with O-ring
- Suitable replacement O-ring:**
- Part No. 2650 2 10
 - Part No. 2650 2 12
 - Part No. 2650 2 15
 - Part No. 2650 2 17
 - Part No. 2650 24 203



Sealing Rings, Zinc for Compressed Air Lines

Article No.	Dimension	QTY
2661 12 19	12 x 19 x 1,5	f 100
2661 14 20	14 x 20 x 1,5	f 100

(ID x OD x Material thickness)

- Yellow-chromated



Sealing Rings for Fuel Lines, Double

Article No.	Dimension	QTY
2609 8 12 8	8 x 12 x 8	fH 300
2609 8 12 13	8 x 12 x 13	fH 300

(ID x OD x Material thickness)



Ford Sealing Rings

Article No.	Dimension	QTY
2665 12 20	12 x 20	fH 300
2665 145 22	14,5 x 22	fH 300
2641 13	13 x 22 x 3	f 100
2641 14	14,7 x 24 x 1,5	f 100
2641 10 20	10 x 20 x 2	f 100

(ID x OD x Material thickness)

Part No. 2665 12 20, 2665 145 22:

- White
- Plastic version

Part No. 2641 13:

- Black
- Rubber version

Part No. 2641 14:

- Gold / black
- Steel / rubber version

Part No. 2641 10 20:

- Copper
- Copper version



Toyota Sealing Rings

Article No.	Dimension	QTY
2666 12 215	12 x 21,5	fH 300
2666 18 285	18 x 28,5	fH 300

(ID x OD x Material thickness)

Part. No. 2666 12 215:

- Toyota No. 9043012011

Part. No. 2666 12 285:

- Toyota No. 9043018244



Nissan Sealing Rings Copper

Article No.	Dimension	QTY
2667 11 17	11 x 17 x 3	f 100

(ID x OD x Material thickness)



Opel Sealing Rings

Article No.	Dimension	QTY
2640 18	18,7 x 26 x 1,5	g 50
2650 2 18	2 x 18	g 100
2668 11 21	11 x 21 x 2,5	f 100

(ID-Ø x OD-Ø x material strength in mm)

Part. No. 2640 18:

- Yellow galvanized steel washer vulcanized rubber sealing lip
- Strength of rubber sealing lip: 2.5 mm
- OE-No.: 652543/93183670

Art. No. 2650 2 18:

- Sealing ring made of Perbunan N
- Temperature resistant: -40°C to +130°C
- Fuel and oil-resistant
- Dimension: 18x22x2
- OE-No.: 652540

Art. No. 2668 11 21:

- Material: NBR
- OE-No.: 652526/3536966



Subaru Sealing Rings

Article No.	Dimension	QTY
2669 20 26	20 x 26 x 2	f 100

(ID-Ø x OD-Ø x material strength in mm)

- Galvanized steel
- OE No.: 11126AA000



Honda Sealing Rings

Article No.	Dimension	QTY
2664 14 22	14 x 22 x 2	f 100

(ID-Ø x OD-Ø x material strength in mm)

- Aluminium
- OE-No.: 94109-14000



O-Rings, Metric

- Sealing rings made of acrylic nitrile butadien-rubber (e.g. Perbunan N)
- Temperature resistant from -30°C to +120°C
- Fuel and oil resistant

Article No.	Dimension	QTY
2650 15 3	1,5 x 3	25
2650 15 5	1,5 x 5	25
2650 15 7	1,5 x 7	25
2650 15 9	1,5 x 9	25
2650 15 11	1,5 x 11	25
2650 2 6	2 x 6	25
2650 2 8	2 x 8	25
2650 2 10	2 x 10	25
2650 2 12	2 x 12	25
2650 2 14	2 x 14	25
2650 2 15	2 x 15	25
2650 2 17	2 x 17	25
2650 2 18	2 x 18	g 100
2650 2 20	2 x 20	25
2650 24 203	2,4 x 20,3	25
2650 25 5	2,5 x 5	25
2650 25 7	2,5 x 7	25

(Ring thickness x ID in mm)

O-Rings, Metric in Assortment

- 1.5x3 - 3x30 = 360 pieces

Article No.	Article Description	QTY
9000 2650	ASSORTMENT O-RING METRIC	1
9000R 2650	TRAY O-RING METRIC	1

O-Rings, Inch Sizes

- Rings made of Perbunan N

Article No.	Dimension	QTY
2651 178 29	1,78 x 2,9	30
2651 178 369	1,78 x 3,69	30
2651 178 448	1,78 x 4,48	30
2651 178 528	1,78 x 5,28	30
2651 178 607	1,78 x 6,07	30
2651 178 766	1,78 x 7,66	30
2651 178 925	1,78 x 9,25	gf 100
2651 178 1082	1,78 x 10,82	gf 100
2651 178 1242	1,78 x 12,42	gf 100
2651 178 14	1,78 x 14	gf 100
2651 178 156	1,78 x 15,6	gf 100
2651 178 1717	1,78 x 17,17	gf 100
2651 178 1877	1,78 x 18,77	gf 100
2651 178 2035	1,78 x 20,35	gf 100
2651 178 2195	1,78 x 21,95	gf 100
2651 262 919	2,62 x 9,19	gf 100
2651 262 1078	2,62 x 10,78	gf 100
2651 262 1237	2,62 x 12,37	gf 100

(Ring thickness x ID in mm)

O-Ring, Inch Sizes, 450-Pcs in Ass.

- 1.78x2.9 – 2.62x21.89 = 450 pieces

Article No.	Article Description	QTY
9000 2651	ASSORTMENT O-RING INCH	1
9000R 2651	TRAY O-RINGS INCH	1

O-Ring, Inch Sizes, 270-Pcs. in Ass.

- 2.62x23.47 - 3.53x36.10 = 270 pieces

Article No.	Article Description	QTY
9000 2651 1	SORT.O-RINGE ZOLL	1
9000R 2651 1	INLETT O-RINGE ZOLL	1



Article No.	Dimension	QTY
2650 3 28	3 x 28	15
2650 3 30	3 x 30	15
2650 3 32	3 x 32	gf 100
2650 3 36	3 x 36	gf 100
2650 3 60	3 x 60	gf 100
2650 3 70	3 x 70	gf 100
2650 4 38	4 x 38	gf 100
2650 4 40	4 x 40	gf 100
2650 4 44	4 x 44	gf 100
2650 4 48	4 x 48	gf 100
2650 4 50	4 x 50	gf 100
2650 5 25	5 x 25	gf 100
2650 5 30	5 x 30	gf 100
2650 5 35	5 x 35	gf 100
2650 5 40	5 x 40	gf 100
2650 5 45	5 x 45	gf 100
2650 5 50	5 x 50	gf 100



Schnorr Lock Washers, Black

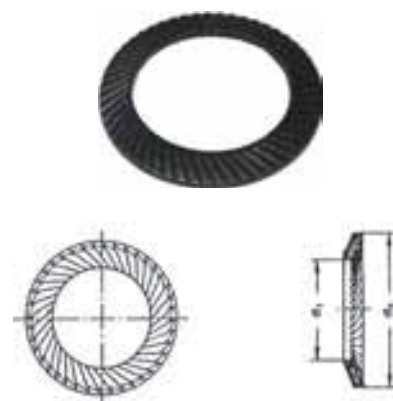
- Black steel

Article No.	Dimension	QTY
2532 3	3	100
2532 4	4	100
2532 5	5	100
2532 6	6	100
2532 8	8	100
2532 10	10	100
2532 12	12	100
2532 14	14	100
2532 16	16	100
2532 18	18	100
2532 20	20	100
2532 22	22	100
2532 24	24	100

(for M-type screws)

Specifications

For thread dia. mm	d1 mm	d2 mm
M 3	3.2	5.5
M 4	4.3	7
M 5	5.3	9
M 6	6.4	10
M 8	8.4	13
M 10	10.5	16
M 12	13.0	18
M 14	15.0	22
M 16	17.0	24
M 18	19.0	27
M 20	21.0	30
M 22	23.0	33
M 24	25.6	36



Retaining Rings DIN 6799 for Shanks

- Phosphated steel

Article No.	Dimension	QTY
2530 012	1,2	100
2530 015	1,5	100
2530 019	1,9	500
2530 23	2,3	100
2530 32	3,2	100
2530 4	4	100
2530 5	5	100
2530 6	6	100
2530 7	7	100
2530 8	8	100
2530 9	9	100
2530 10	10	100
2530 12	12	100
2530 15	15	100
2530 19	19	50
2530 24	24	50

(Nominal Dia. mm)

Specifications

Nom. dia. mm	OD Tensioned mm
1.2	3.25
1.5	4.25
1.9	4.80
2.3	6.30
3.2	7.30
4.0	9.30
5.0	11.30
6.0	12.30
7.0	14.30
8.0	16.30
9.0	18.80
10.0	20.40
12.0	23.40
15.0	37.40
19.0	44.60
24.0	29.60



Retaining Rings DIN 6799, Assortment

- 2.3 - 19.0 = 920 pieces

Article No.	Article Description	QTY
9000 2530	ASSORTM.RETAINING RINGS 6799	1
9000R 2530	TRAY RETAINING RINGS 6799	1



Retaining Rings DIN 471 for Shanks

• Phosphated steel

Article No.	Dimension	QTY
2541 3	3	g 100
2541 4	4	g 100
2541 5	5	g 100
2541 6	6	g 100
2541 7	7	g 100
2541 8	8	g 100
2541 9	9	g 100
2541 10	10	g 100
2541 11	11	g 100
2541 12	12	g 100
2541 13	13	g 100
2541 14	14	g 100
2541 15	15	g 100
2541 16	16	g 100
2541 17	17	g 100
2541 18	18	g 100
2541 19	19	g 100
2541 20	20	g 100
2541 21	21	g 100
2541 22	22	g 100
2541 23	23	g 100
2541 24	24	g 100
2541 25	25	g 100
2541 26	26	g 50
2541 27	27	g 50
2541 28	28	g 50
2541 29	29	g 50
2541 30	30	g 50
2541 31	31	g 50
2541 32	32	g 50
2541 33	33	g 50
2541 34	34	g 50
2541 35	35	g 50
2541 36	36	g 50
2541 37	37	g 50
2541 38	38	g 50
2541 39	39	g 50
2541 40	40	g 50
2541 41	41	g 50
2541 42	42	g 50
2541 44	44	g 50
2541 45	45	g 50
2541 46	46	g 50
2541 47	47	g 50
2541 48	48	g 50
2541 50	50	25
2541 52	52	25
2541 54	54	25
2541 55	55	25
2541 56	56	25
2541 57	57	25
2541 58	58	25
2541 60	60	25
2541 62	62	25
2541 65	65	25
2541 67	67	50
2541 70	70	25
2541 75	75	25
2541 80	80	25
2541 85	85	25
2541 90	90	25
2541 100	100	25

(Nominal Dia. mm)

Specifications

Nom. dia.	d3	s
mm	mm	mm
3	2.7	0.40
4	3.7	0.40
5	4.7	0.60
6	5.6	0.70
7	6.5	0.80
8	7.4	0.80
9	8.4	1.00
10	9.3	1.00
11	10.2	1.00
12	11.0	1.00
13	11.9	1.00
14	12.9	1.00
15	13.8	1.00
16	14.7	1.00
17	15.7	1.00
18	16.5	1.20
19	17.5	1.20
20	18.5	1.20
21	19.5	1.20
22	20.5	1.20
23	21.5	1.20
24	22.2	1.20
25	23.2	1.20
26	24.2	1.20
27	24.9	1.20
28	25.9	1.50
29	26.9	1.50
30	27.9	1.50
31	28.6	1.50
32	29.6	1.50
33	30.5	1.50
34	31.5	1.50
35	32.2	1.50
36	33.2	1.75
37	34.2	1.75
38	35.2	1.75
39	36.0	1.75
40	36.5	1.75
41	37.5	1.75
42	38.5	1.75
44	40.5	1.75
45	41.5	1.75
46	42.5	1.75
47	43.5	1.75
48	44.5	1.75
50	45.8	2.00
52	47.8	2.00
54	49.8	2.00
55	50.8	2.00
56	51.8	2.00
57	52.8	2.00
58	53.8	2.00
60	55.8	2.00
62	57.8	2.00
65	60.8	2.50
67	62.6	2.50
70	65.5	2.50
75	70.5	2.50
80	74.5	2.50
85	79.5	3.00
90	84.5	3.00
100	94.5	3.00



Retaining Rings for Shanks DIN 471, Assortment

• 8 - 40 = 715 pieces

Article No.	Article Description	QTY
9000 2541	ASSORTMENT LOCK RINGS DIN 471A	1
9000R 2541	TRAY LOCK RINGS DIN 471 A	1

Retaining Rings DIN 472 for Bores

• Phosphated steel

Article No.	Dimension	QTY
2542 8	8	g 100
2542 9	9	g 100
2542 10	10	g 100
2542 11	11	g 100
2542 12	12	g 100
2542 13	13	g 100
2542 14	14	g 100
2542 15	15	g 100
2542 16	16	g 100
2542 17	17	g 100
2542 18	18	g 100
2542 19	19	g 100
2542 20	20	g 100
2542 21	21	g 100
2542 22	22	g 100
2542 23	23	g 100
2542 24	24	g 100
2542 25	25	g 100
2542 26	26	g 50
2542 27	27	g 50
2542 28	28	g 50
2542 29	29	g 50
2542 30	30	g 50
2542 31	31	g 50
2542 32	32	g 50
2542 33	33	g 50
2542 34	34	g 50
2542 35	35	g 50
2542 36	36	g 50
2542 37	37	g 50
2542 38	38	g 50
2542 39	39	g 50
2542 40	40	g 50
2542 41	41	g 50
2542 42	42	g 50
2542 44	44	g 50
2542 45	45	g 50
2542 46	46	g 50
2542 47	47	g 50
2542 48	48	g 50
2542 50	50	g 50
2542 51	51	g 50
2542 52	52	25
2542 54	54	25
2542 55	55	25
2542 56	56	25
2542 57	57	25
2542 58	58	25
2542 60	60	25
2542 62	62	25
2542 63	63	25
2542 65	65	25
2542 67	67	25
2542 68	68	25
2542 70	70	25
2542 72	72	25
2542 75	75	25
2542 80	80	25
2542 82	82	25
2542 85	85	25
2542 90	90	25
2542 95	95	25
2542 100	100	25
2542 110	110	25

(Nominal Dia. mm)

Specifications

Nom. dia. mm	d3 mm	s mm
8	8.7	0.80
9	9.8	0.80
10	10.8	1.00
11	11.8	1.00
12	13.0	1.00
13	14.1	1.00
14	15.1	1.00
15	16.2	1.00
16	17.3	1.00
17	18.3	1.00
18	19.5	1.00
19	20.5	1.00
20	21.5	1.00
21	22.5	1.00
22	23.5	1.00
23	24.6	1.20
24	25.9	1.20
25	26.9	1.20
26	27.9	1.20
27	29.1	1.20
28	30.1	1.20
29	31.1	1.20
30	32.1	1.20
31	33.4	1.20
32	34.4	1.20
33	35.5	1.20
34	36.5	1.50
35	37.8	1.50
36	38.8	1.50
37	39.8	1.50
38	40.8	1.50
39	42.0	1.50
40	43.5	1.75
41	44.5	1.75
42	45.5	1.75
44	47.5	1.75
45	48.5	1.75
46	49.5	1.75
47	50.5	1.75
48	51.5	1.75
50	54.2	2.00
51	55.2	2.00
52	56.2	2.00
54	58.2	2.00
55	59.2	2.00
56	60.2	2.00
57	61.2	2.00
58	62.2	2.00
60	64.2	2.00
62	66.2	2.00
63	67.2	2.00
65	69.2	2.50
67	71.5	2.50
68	72.5	2.50
70	74.5	2.50
72	76.5	2.50
75	79.5	2.50
80	85.5	2.50
82	87.5	2.50
85	90.5	3.00
90	95.5	3.00
95	100.5	3.00
100	105.5	3.00
110	117.0	4.00



Retaining Rings for Bores DIN 472, Assortment

• 15 - 42 = 480 pieces

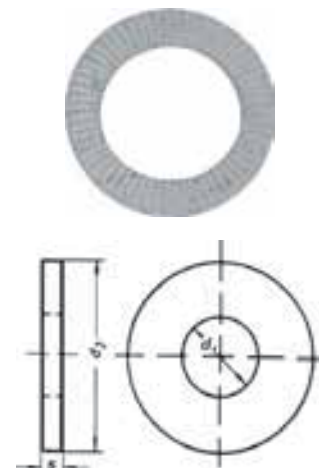
Article No.	Article Description	QTY
9000 2542	ASSORTMENT LOCK RINGS 472 I	1
9000R 2542	TRAY LOCK RINGS 472 I	1

Nord-Lock Retaining Washer, Galvanized

- Twin-bonded
- Galvanized steel
- Hardness HV1>435
- Maximum safety for screw connections up to class 12.9
- Reliable screw retention - also under extreme vibrations or high loads
- Easy to assemble and disassemble
- Safety function not only at high but also at low pre-tension loads
- Protects the surface
- Reusable

Article No.	Dimension	QTY
2533 5	5	200
2533 6	6	200
2533 8	8	200
2533 10	10	200
2533 12	12	200
2533 14	14	50
2533 16	16	50
2533 18	18	50
2533 20	20	50
2533 22	22	50

Specifications			
d	d1	d2	Strength
Thread-Ø	mm	mm	mm
5	5.4	9.0	1.8
6	6.5	10.8	1.8
8	8.7	13.5	2.5
10	10.7	16.6	2.5
12	13.0	19.5	2.5
14	15.2	23.0	3.4
16	17.0	25.4	3.4
18	19.5	29.0	3.4
20	21.4	30.7	3.4
22	23.4	34.5	3.4



Nord-Lock Washer Ø 6-20 mm, Galv. in Assortment

- Galvanized steel (lamellar-coating)
- Content: 355 pieces

Article No.	Article Description	QTY
9000 2533	ASS.NORD-LOCK RET.WASHER6-20MM	1
9000R 2533	TRAY NORD-LOCK RET.WASH.6-20MM	1



Parallel Pins DIN 7979

- In compliance with ISO 8735
- With inside thread
- Shape D
- Steel 600 N/mm²
- Hardened to 60+2HRC
- Tolerance zone m 6

Article No.	Dimension	VPE
2861 4 16	4 x 16	100
2861 5 12	5 x 12	100
2861 5 14	5 x 14	100
2861 5 16	5 x 16	100
2861 5 18	5 x 18	100
2861 5 20	5 x 20	100
2861 5 24	5 x 24	100
2861 5 28	5 x 28	100
2861 5 32	5 x 32	100
2861 6 12	6 x 12	100
2861 6 20	6 x 20	100
2861 6 24	6 x 24	100
2861 6 30	6 x 30	100
2861 6 32	6 x 32	100
2861 6 36	6 x 36	100
2861 6 40	6 x 40	100
2861 8 20	8 x 20	100
2861 8 24	8 x 24	50
2861 8 30	8 x 30	50
2861 8 32	8 x 32	50
2861 8 36	8 x 36	50
2861 8 40	8 x 40	50
2861 8 50	8 x 50	50
2861 8 60	8 x 60	50
2861 8 70	8 x 70	50
2861 8 80	8 x 80	50

Article No.	Dimension	QTY
2861 8 100	8 x 100	10
2861 8 120	8 x 120	10
2861 10 20	10 x 20	50
2861 10 24	10 x 24	50
2861 10 28	10 x 28	50
2861 10 30	10 x 30	50
2861 10 32	10 x 32	50
2861 10 36	10 x 36	50
2861 10 40	10 x 40	50
2861 10 50	10 x 50	50
2861 10 60	10 x 60	50
2861 10 70	10 x 70	50
2861 10 80	10 x 80	50
2861 10 100	10 x 100	50
2861 12 30	12 x 30	25
2861 12 40	12 x 40	25
2861 12 50	12 x 50	25
2861 12 60	12 x 60	25
2861 12 80	12 x 80	25
2861 14 40	14 x 40	25
2861 16 50	16 x 50	25
2861 16 60	16 x 60	25
2861 16 70	16 x 70	25
2861 16 100	16 x 100	25
2861 20 60	20 x 60	10
2861 20 80	20 x 80	10



Specifications			
D	M	T1	T2
mm	mm	mm	mm
5	M 3	4.5	7
6	M 4	6	10
8	M 5	8	12
10	M 6	10	16
12	M 6	10	16
14	M 8	12	20
16	M 8	12	20
20	M 10	16	25

Spring Type Straight Pins DIN 1481 Heavy Duty

- In compliance with ISO 8752
- Spring steel, plain

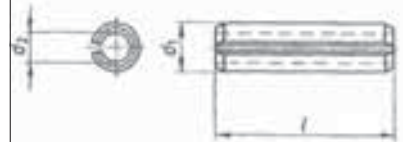


Article No.	Dimension	QTY
2860 2 8	2 x 8	1000
2860 2 10	2 x 10	W 1000
2860 2 12	2 x 12	1000
2860 2 14	2 x 14	1000
2860 2 16	2 x 16	1000
2860 2 20	2 x 20	100
2860 2 22	2 x 22	100
2860 2 24	2 x 24	100
2860 2 30	2 x 30	f 100
2860 3 6	3 x 6	1000
2860 3 8	3 x 8	1000
2860 3 10	3 x 10	1000
2860 3 12	3 x 12	100
2860 3 14	3 x 14	100
2860 3 16	3 x 16	100
2860 3 18	3 x 18	100
2860 3 20	3 x 20	100
2860 3 22	3 x 22	100
2860 3 24	3 x 24	100
2860 3 26	3 x 26	100
2860 3 28	3 x 28	100
2860 3 30	3 x 30	100
2860 3 32	3 x 32	100
2860 3 36	3 x 36	100
2860 3 40	3 x 40	f 100
2860 3 50	3 x 50	100
2860 4 8	4 x 8	100
2860 4 10	4 x 10	100
2860 4 12	4 x 12	100
2860 4 14	4 x 14	200
2860 4 16	4 x 16	100
2860 4 18	4 x 18	100
2860 4 20	4 x 20	100
2860 4 22	4 x 22	100
2860 4 24	4 x 24	100
2860 4 26	4 x 26	100
2860 4 28	4 x 28	100
2860 4 30	4 x 30	f 100
2860 4 32	4 x 32	100
2860 4 36	4 x 36	100
2860 4 40	4 x 40	f 100
2860 4 45	4 x 45	100
2860 4 50	4 x 50	f 100
2860 4 60	4 x 60	100
2860 45 20	4,5 x 20	100
2860 45 30	4,5 x 30	100
2860 45 40	4,5 x 40	100
2860 45 50	4,5 x 50	100
2860 5 10	5 x 10	100
2860 5 14	5 x 14	100
2860 5 16	5 x 16	100

(Nominal Dia. mm x length mm)

Article No.	Dimension	QTY
2860 5 20	5 x 20	100
2860 5 22	5 x 22	100
2860 5 24	5 x 24	100
2860 5 26	5 x 26	100
2860 5 28	5 x 28	100
2860 5 30	5 x 30	f 100
2860 5 32	5 x 32	100
2860 5 36	5 x 36	100
2860 5 40	5 x 40	f 100
2860 5 45	5 x 45	100
2860 5 50	5 x 50	f 100
2860 5 55	5 x 55	100
2860 5 60	5 x 60	f 100
2860 5 70	5 x 70	f 100
2860 5 80	5 x 80	f 100
2860 6 10	6 x 10	100
2860 6 12	6 x 12	100
2860 6 16	6 x 16	100
2860 6 18	6 x 18	100
2860 6 20	6 x 20	f 100
2860 6 22	6 x 22	100
2860 6 24	6 x 24	100
2860 6 26	6 x 26	100
2860 6 28	6 x 28	100
2860 6 30	6 x 30	f 100
2860 6 32	6 x 32	100
2860 6 36	6 x 36	100
2860 6 40	6 x 40	f 100
2860 6 45	6 x 45	100
2860 6 50	6 x 50	f 100
2860 6 55	6 x 55	100
2860 6 60	6 x 60	f 100
2860 6 70	6 x 70	f 100
2860 6 80	6 x 80	f 100
2860 6 90	6 x 90	100
2860 6 100	6 x 100	100
2860 7 40	7 x 40	50
2860 7 50	7 x 50	50
2860 7 60	7 x 60	50
2860 7 70	7 x 70	50
2860 7 80	7 x 80	50
2860 8 12	8 x 12	100
2860 8 20	8 x 20	100
2860 8 24	8 x 24	100
2860 8 26	8 x 26	100
2860 8 30	8 x 30	f 100
2860 8 36	8 x 36	100
2860 8 40	8 x 40	f 100
2860 8 45	8 x 45	100
2860 8 50	8 x 50	f 100
2860 8 55	8 x 55	f 100

Specifications



Nom. dia. mm	ID mm
2	1.5
3	2.1
4	2.8
5	3.4
6	3.9
8	5.5
10	6.5
12	7.5

Article No.	Dimension	QTY
2860 8 60	8 x 60	f 100
2860 8 70	8 x 70	100
2860 8 80	8 x 80	f 100
2860 8 90	8 x 90	100
2860 8 100	8 x 100	100
2860 9 80	9 x 80	50
2860 10 20	10 x 20	100
2860 10 28	10 x 28	100
2860 10 30	10 x 30	50
2860 10 36	10 x 36	50
2860 10 40	10 x 40	g 50
2860 10 45	10 x 45	g 50
2860 10 50	10 x 50	g 50
2860 10 60	10 x 60	g 50
2860 10 70	10 x 70	g 50
2860 10 80	10 x 80	g 50
2860 10 90	10 x 90	g 50
2860 10 100	10 x 100	g 50
2860 10 120	10 x 120	25
2860 12 30	12 x 30	25
2860 12 40	12 x 40	25
2860 12 50	12 x 50	25
2860 12 55	12 x 55	25
2860 12 60	12 x 60	25
2860 12 70	12 x 70	25
2860 12 80	12 x 80	25
2860 12 90	12 x 90	25
2860 12 100	12 x 100	25
2860 12 120	12 x 120	25

Spring Type Straight Pins DIN 1481, Assortment

- 3x30 - 10x60 = 575 pieces

Article No.	Article Description	QTY
9000 2860	ASS.SPRING TYPE STRAI.PIN 1481	1
9000R 2860	INT.SPRING TYPE STR.PIN 1481	1



Cotter Pins DIN 94, Galvanized

- In compliance with ISO 1234
- Galvanized steel



Article No.	Dimension	QTY
2801 1 16	1 x 16	1000
2801 1 20	1 x 20	RF 1000
2801 1 25	1 x 25	RF 1000
2801 1 32	1 x 32	RF 1000
2801 16 16	1,6 x 16	1000
2801 16 20	1,6 x 20	RF 1000
2801 16 25	1,6 x 25	RF 1000
2801 16 32	1,6 x 32	RF 1000
2801 16 36	1,6 x 36	RF 1000
2801 16 40	1,6 x 40	RF 1000
2801 2 20	2 x 20	RF 1000
2801 2 22	2 x 22	HRF 1000
2801 2 25	2 x 25	RF 1000
2801 2 32	2 x 32	HRF 1000
2801 2 36	2 x 36	HRF 1000
2801 2 40	2 x 40	HRF 1000
2801 2 45	2 x 45	RF 1000
2801 2 50	2 x 50	RF 1000
2801 25 20	2,5 x 20	RF 1000
2801 25 25	2,5 x 25	RF 1000
2801 25 32	2,5 x 32	HRF 1000
2801 25 36	2,5 x 36	RF 1000
2801 25 40	2,5 x 40	HRF 1000
2801 25 45	2,5 x 45	RF 1000
2801 25 50	2,5 x 50	RF 1000
2801 32 16	3,2 x 16	500
2801 32 20	3,2 x 20	R 500
2801 32 25	3,2 x 25	HR 500
2801 32 32	3,2 x 32	R 500
2801 32 36	3,2 x 36	R 500
2801 32 40	3,2 x 40	HR 500
2801 32 45	3,2 x 45	R 500
2801 32 50	3,2 x 50	HR 500
2801 32 63	3,2 x 63	R 500
2801 35 20	3,5 x 20	R 500
2801 35 25	3,5 x 25	R 500
2801 35 32	3,5 x 32	R 500
2801 35 36	3,5 x 36	R 500
2801 35 40	3,5 x 40	HR 500
2801 35 45	3,5 x 45	HR 500
2801 35 50	3,5 x 50	R 500
2801 35 56	3,5 x 56	R 500
2801 35 63	3,5 x 63	R 500

(Dia. x length in mm)

Article No.	Dimension	QTY
2801 4 20	4 x 20	R 500
2801 4 25	4 x 25	R 500
2801 4 32	4 x 32	HR 500
2801 4 36	4 x 36	R 500
2801 4 40	4 x 40	HR 500
2801 4 45	4 x 45	R 500
2801 4 50	4 x 50	R 500
2801 4 56	4 x 56	R 500
2801 4 63	4 x 63	HR 500
2801 4 71	4 x 71	R 500
2801 4 80	4 x 80	R 500
2801 45 32	4,5 x 32	H 300
2801 45 36	4,5 x 36	H 300
2801 45 40	4,5 x 40	H 300
2801 45 45	4,5 x 45	H 300
2801 45 50	4,5 x 50	H 300
2801 45 56	4,5 x 56	H 300
2801 45 63	4,5 x 63	H 300
2801 45 71	4,5 x 71	H 300
2801 45 80	4,5 x 80	H 300
2801 5 32	5 x 32	H 300
2801 5 36	5 x 36	H 300
2801 5 40	5 x 40	H 300
2801 5 45	5 x 45	H 300
2801 5 50	5 x 50	H 300
2801 5 56	5 x 56	H 300
2801 5 63	5 x 63	H 300
2801 5 71	5 x 71	H 300
2801 5 80	5 x 80	H 300
2801 55 50	5,5 x 50	H 300
2801 63 40	6,3 x 40	H 300
2801 63 45	6,3 x 45	H 300
2801 63 50	6,3 x 50	H 300
2801 63 56	6,3 x 56	H 300
2801 63 63	6,3 x 63	H 300
2801 63 71	6,3 x 71	H 300
2801 63 80	6,3 x 80	H 300
2801 63 90	6,3 x 90	H 300
2801 63 100	6,3 x 100	H 300
2801 8 40	8 x 40	100
2801 8 50	8 x 50	f 100
2801 8 56	8 x 56	f 100
2801 8 63	8 x 63	f 100

Specifications



Nomi. dia.	d1	a	a	b	c	c
mm	max.	max.	min.	mm	max.	min.
1.0	0.9	1.6	0.80	3.0	1.8	1.6
1.6	1.4	2.5	1.25	3.2	2.8	2.4
2.0	1.8	2.5	1.25	4.0	3.6	3.2
2.5	2.3	2.5	1.25	5.0	4.6	4.0
3.2	2.9	3.2	1.60	6.4	5.8	5.1
4.0	3.7	4.0	2.00	8.0	7.4	6.5
5.0	4.6	4.0	2.00	10.0	9.2	8.0
6.3	5.9	4.0	2.00	12.6	11.8	10.3
8.0	7.5	4.0	2.00	16.0	15.0	13.1
10.0	9.5	6.3	3.20	20.0	19.0	16.6
13.0	12.4	6.3	3.20	26.0	24.8	21.7
16.0	15.4	6.3	3.20	32.0	30.8	27.0
20.0	19.3	6.3	3.20	40.0	38.6	33.8

Article No.	Dimension	QTY
2801 8 71	8 x 71	f 100
2801 8 80	8 x 80	f 100
2801 8 90	8 x 90	f 100
2801 8 100	8 x 100	f 100
2801 8 112	8 x 112	f 100
2801 8 125	8 x 125	f 100
2801 8 140	8 x 140	g 50
2801 10 56	10 x 56	f 100
2801 10 63	10 x 63	f 100
2801 10 71	10 x 71	f 100
2801 10 80	10 x 80	f 100
2801 10 90	10 x 90	f 100
2801 10 100	10 x 100	f 100
2801 10 112	10 x 112	f 100
2801 10 125	10 x 125	f 100
2801 10 140	10 x 140	f 100
2801 13 100	13 x 100	f 100

Cotter Pins DIN 94, Galvanized, Assortment

- 1x20 - 6x63 = 1325 pieces

Article No.	Article Description	QTY
9000 2801	ASSORTMENT COTTER PINS 94 GA	1
9000R 2801	TRAY COTTER PINS 94 GALVANIZED	1



Lynch Pins, Galvanized

- Galvanized steel

Article No.	Dimension	QTY
2810 45	4,5	25
2810 6	6	25
2810 8	8	25
2810 95	9,5	25
2810 11	11	25

Technical Data

d1 mm	D mm	L mm	S mm
4.5	39.5	42	3
6	41	42	3.4
8	41	42	3.4
9.5	41	42	3.4
11	41	42	3.4



Hitch Pins, Single Version, Galvanized

- Galvanized steel

Article No.	Dimension	QTY
2811 2	2	25
2811 3	3	25
2811 4	4	25
2811 5	5	25
2811 6	6	25
2811 8	8	25

Technical Data

d1 mm	L1 mm
2	50
3	60
4	60
5	85
6	105
8	110



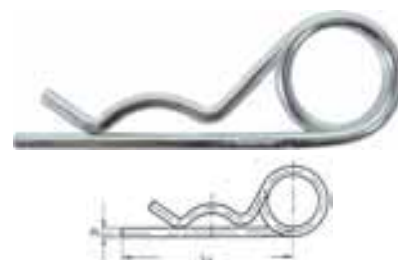
Hitch Pins, Double Version, Galvanized

- Galvanized steel

Article No.	Dimension	QTY
2812 2	2	25
2812 3	3	25
2812 4	4	25
2812 5	5	25
2812 6	6	25
2812 8	8	25

Technical Data

d1 mm	L1 mm
2	50
3	62
4	78
5	92
6	120
8	130



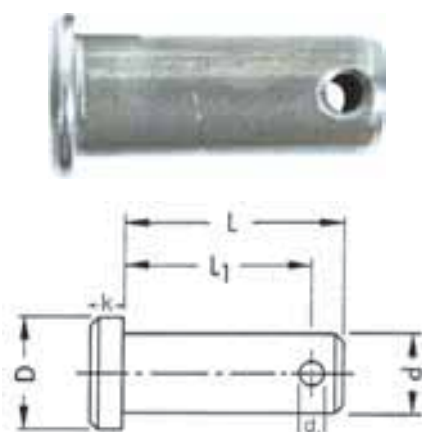
Cotter Pins DIN 1434, Galvanized

- Galvanized steel

Article No.	Dimension	QTY
2821 6 135 16	6 x 13,5 x 16	10
2821 6 225 25	6 x 22,5 x 25	10
2821 8 17 20	8 x 17 x 20	10
2821 8 19 22	8 x 19 x 22	10
2821 10 31 35	10 x 31 x 35	10
2821 10 36 40	10 x 36 x 40	10
2821 12 30 35	12 x 30 x 35	10
2821 12 38 42	12 x 38 x 42	10
2821 12 40 45	12 x 40 x 45	10
2821 14 35 40	14 x 35 x 40	10
2821 14 40 45	14 x 40 x 45	10
2821 14 60 65	14 x 60 x 65	10
2821 16 58 64	16 x 58 x 64	10
2821 16 60 65	16 x 60 x 65	10
2821 16 64 85	16 x 64 x 85	10
2821 20 42 50	20 x 42 x 50	10
2821 20 67 75	20 x 67 x 75	10
2821 20 87 95	20 x 87 x 95	10
2821 20 105 112	20 x 105 x 112	10
2821 25 77 85	25 x 77 x 85	10
2821 25 87 95	25 x 87 x 95	10
2821 30 55 65	30 x 55 x 65	10
2821 30 60 70	30 x 60 x 70	10
2821 30 70 80	30 x 70 x 80	10

Technical Data

D mm	k mm	d1 mm
9	1,5	1,6
9	1,5	1,6
12	2	2,0
12	2	2,0
14	2	3,2
14	2	3,2
17	3	4,0
17	3	4,0
17	3	4,0
19	3	4,0
19	3	4,0
19	3	4,0
21	3	4,0
21	3	4,0
21	3	4,0
26	4	5,0
26	4	5,0
26	4	5,0
26	4	5,0
32	5	6,3
32	5	6,3
36	5	6,3
36	5	6,3
36	5	6,3



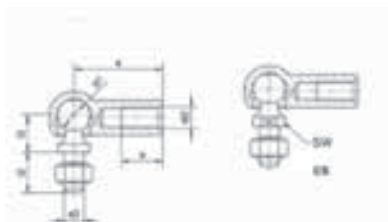
(d / L1 / L)

Ball Joints DIN 71802 Shape CS, Plain Steel

- With retainer
- Plain Steel

Article No.	Dimension	QTY
2890 8	8	z 25
2890 10	10	z 25
2890 13	13	z 25
2890 16 10	16/10	z 25
2890 16 12	16/12	z 25

(Designation AS)



Specifications

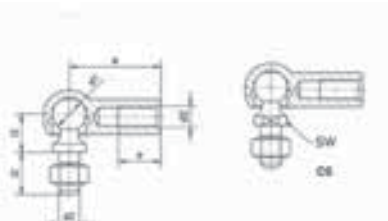
d1	d2	l2	l3	e	d5	l1	a	SW ²	Weight 7.85 kg/dm ³
Nom. dim.		+/- 0.3	+/- 0.3	Min.	h 11	+/- 0.2	+/- 0.3	h14	kg/1000 pieces
8	M 5	10.2	9	10.2	5	4/7.5	22	7	15.2
10	M 6	12.5	11	11.5	6	4.5/8	25	8	25.2
13	M 8	16.5	13	14	8	5/10	30	11	53.1
16	M 10 / M 12*	20	16	15.5	10	6/13	35	13	103.8

Ball Joints, Left, Shape CS, Plain Steel

- With retaining clamp
- Plain Steel

Article No.	Dimension	QTY
2891 8	8	z 25
2891 10	10	z 25
2891 13	13	z 25
2891 16	16	z 25

(Designation AS)



Specifications

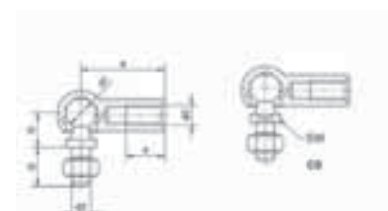
d1	d2	l2	l3	e	d5	l1	a	SW ²	Weight 7.85 kg/dm ³
Nom. dim.		+/- 0.3	+/- 0.3	Min.	h11	+/- 0.2	+/- 0.3	h14	kg/1000 pieces
8	M 5	10.2	9	10.2	5	4/7.5	22	7	15.2
10	M 6	12.5	11	11.5	6	4.5/8	25	8	25.2
13	M 8	16.5	13	14	8	5/10	30	11	53.1
16	M 10 / M12*	20	16	15.5	10	6/13	35	13	103.8

Ball Joints, Long, Shape CS, Plain Steel

- With retainer
- Plain Steel

Article No.	Dimension	QTY
2892 10	10	z 25
2892 13	13	z 25

(Designation AS)



Specifications

d1	d2	l2	l3	e	d5	l1	a	SW ²	Weight 7.85 kg/dm ³
Nom. dim.		+/- 0.3	+/- 0.3	Min.	h 11	+/- 0.2	+/- 0.3	h14	kg/1000 pieces
10	M 6	12.5	11	11.5	6	4.5/8	25	8	25.2
13	M 8	16.5	13	14	8	5/10	30	11	53.1

Retainer DIN 71805 S, Plain Steel

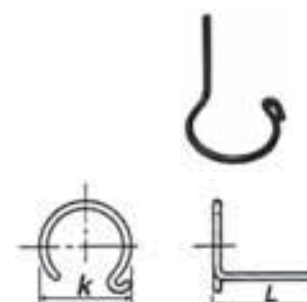
- Plain steel

Article No.	Dimension	QTY
2893 8	8	z 25
2893 10	10	z 25
2893 13	13	z 25
2893 16	16	z 25

(Designation S)

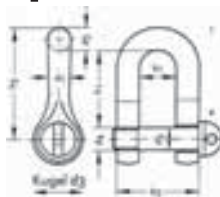
Specifications

k	L
mm	mm
7	10.5
8.7	12.5
11	15.7
13	19



Shackle DIN 82101 Shape A, Galvanized

- With Clevis pin
- Galvanized steel



Article No.	Dimension	QTY
2887 6	6	z 25
2887 8	8	üz 25
2887 10	10	z 25
2887 12	12	z 25
2887 16	16	e 10
2887 20	20	e 10
2887 22	22	e 10
2887 24	24	1
2887 27	27	1
2887 30	30	1
2887 36	36	1
2887 39	39	1

Specifications

Thread	Supporting capacity	Supporting capacity	b2	d1	d2	d3	h2
Dia. mm	Size	t	mm	mm	mm	mm	mm
M 6	0.16	0.16	18	5	6	12	27
M 8	0.25	0.25	25	7	8	16	36
M 10	0.40	0.40	30	8	10	20	45
M 12	0.60	0.63	37	10	12	24	54
M 16	1.00	1.00	47	13	15	32	72
M 20	1.60	1.60	61	17	19	40	90
M 22	2.00	2.00	68	19	21	44	99
M 24	2.00	2.00	75	21	23	48	108
M 27	3.00	3.15	86	24	26	54	123
M 30	4.00	4.00	96	27	29	60	135
M 36	5.00	5.00	107	30	33	72	162
M 39	6.00	6.30	121	34	37	78	176

Carabiners DIN 5299 C, Galvanized

- Galvanized steel

Article No.	Dimension	QTY
2885 50 5	50 x 5	z 25
2885 60 6	60 x 6	z 25
2885 70 7	70 x 7	z 25
2885 80 8	80 x 8	z 25
2885 100 10	100 x 10	10
2885 120 11	120 x 11	10
2885 140 12	140 x 12	10
2885 160 13	160 x 13	10

(Length mm / thickness mm)

Specifications

Supp. cap. approx. in t.

0.100
0.120
0.180
0.230
0.350
0.450
0.480
0.510



Stranded Steel Cable Shackle DIN 741, Galvanized

- Galvanized steel

Article No.	Dimension	QTY
2880 3	3	25
2880 5	5	25
2880 65	6,5	25
2880 8	8	25
2880 95	9,5	25
2880 11	11	25
2880 13	13	10
2880 14	14	10
2880 16	16	10
2880 19	19	10
2880 26	26	10

(Cable dia. mm)

Specifications

Cable dia. mm	Cable dia. Inches	Shackle- thread
3	1/8"	M 4
5	3/16"	M 5
6.5	1/4"	M 6
8	5/16"	M 8
9,5	3/8"	M 8
11	7/16"	M 8
13	1/2"	M 10
14	9/16"	M 10
16	5/8"	M 12
19	3/4"	M 12
26	1"	M 14



Stranded Steel Cable Shackle DIN 1142, Galvanized

- Yellow galvanized steel

Article No.	Dimension	QTY
2881 5	5	z 25
2881 65	6,5	z 25
2881 8	8	z 25
2881 10	10	z 25
2881 13	13	10

(Cable dia. mm)

Specifications

Cable dia. mm	Cable dia. Inches	Shackle thread
5	3/16"	5
6.5	1/4"	6
8	5/16"	8
10	7/16"	8
10	1/2"	12



Cable Eye Stiffener DIN6899 A, Leight Weight Vers.

- Galvanized steel

Article No.	Dimension	QTY
2882 6	6	25
2882 8	8	25
2882 10	10	25
2882 12	12	25
2882 13	13	25
2882 16	16	25

(Cable dia. mm)

Specifications

Cable dia. mm	Inner width mm	Groove width mm
6	15	7
8	18	9
10	22	11
12	26	13
13	28	14
16	35	18



Tension Spring DIN2097, Spring Steel Wire, Galvan.

Article No.	Dimension	QTY
2920 5 50	5 x 50	15
2920 6 25	6 x 25	20
2920 7 25	7 x 25	15
2920 7 55	7 x 55	10
2920 7 90	7 x 90	10
2920 8 55	8 x 55	10
2920 8 70	8 x 70	10
2920 9 45	9 x 45	5
2920 9 75	9 x 75	5
2920 9 100	9 x 100	10
2920 10 60	10 x 60	15
2920 10 105	10 x 105	5
2920 11 55	11 x 55	5
2920 11 55 13	11 x 55	10
2920 11 70	11 x 70	10
2920 11 130	11 x 130	5
2920 12 65	12 x 65	5
2920 12 85	12 x 85	5
2920 125 75	12,5 x 75	10
2920 125 110	12,5 x 110	5

(D mm x L mm)

D = Outer diameter

L = Length of outside of internal edge of eye to outside of internal edge of eye)

Specifications

Wire thickness mm

0.6

0.6

1.3

0.6

1.0

1.0

1.0

1.0

1.0

1.0

1.0

1.0

1.3

1.0

1.0

1.0

1.5

1.0

1.5

1.5



Tension Springs DIN 2097, Assortment

- 5x50 - 12.5x110 = 185 pieces

Article No.	Article Description	QTY
9000 2920	ASS.TENSION SPRINGS 2097	1
9000R 2920	TRAY TENSION SPRINGS 2097	1



Compression Springs DIN2095, Spring Steel Wire, GA

Article No.	Dimension	QTY
2922 8 42	8 x 42	40
2922 10 32	10 x 32	40
2922 10 40	10 x 40	25
2922 10 45	10 x 45	25
2922 12 35	12 x 35	30
2922 12 35 15	12 x 35	20
2922 12 55	12 x 55	20
2922 12 60	12 x 60	20
2922 15 28	15 x 28	20
2922 15 45	15 x 45	15
2922 15 55	15 x 55	10
2922 15 65	15 x 65	10

(D mm x L mm)

• D = Outer diameter

• L = Length

Specifications

Wire thickness

mm

0.8

1.0

1.0

1.5

1.0

1.5

1.5

1.0

1.5

1.5

1.5

1.5



Compression Springs DIN 2095, Assortment

- 8x42 - 15x65 = 250 pieces

Article No.	Article Description	QTY
9000 2922	ASS.COMPRESSION SPRINGS 2095	1
9000R 2922	TRAY COMPRESSION SPRINGS 2095	1



Lubricating Nipples DIN 71412 H1, Galvanized

- Galvanized steel

Article No.	Dimension	QTY
2901 6 1	M 6 x 1	f 100
2901 8 1	M 8 x 1	f 100
2901 8 125	M 8 x 1,25	f 100
2901 10 1	M 10 x 1	f 100
2901 10 15	M 10 x 1,5	f 100
2901 14	R 1/4"	50
2901 18	R 1/8"	50

(Thread M/R)



Lubricating Nipples DIN 71412 H 2, Galvanized

- Galvanized steel

Article No.	Dimension	QTY
2902 6 1	M 6 x 1	f 100
2902 8 1	M 8 x 1	f 100
2902 8 125	M 8 x 1,25	f 100
2902 10 1	M 10 x 1	f 100
2902 10 15	M 10 x 1,5	f 100
2902 14	R 1/4"	50
2902 18	R 1/8"	50

(Thread M/R)



Lubricating Nipples DIN 71412 H3, Galvanized

- Galvanized steel

Article No.	Dimension	QTY
2903 6 1	M 6 x 1	f 100
2903 8 1	M 8 x 1	f 100
2903 8 125	M 8 x 1,25	f 100
2903 10 1	M 10 x 1	f 100
2903 10 15	M 10 x 1,5	f 100
2903 14	R 1/4"	50
2903 18	R 1/8"	50

(Thread M/R)



Lubricating Nipples DIN 73404 M1, Galvanized

- Galvanized steel

Article No.	Dimension	QTY
2904 8 1	M 8 x 1	50
2904 10 1	M 10 x 1	50
2904 14	R 1/4"	50
2904 18	R 1/8"	50

(Thread M/R)



Knock-In Type Lubricating Nipples H1, Galvanized

- Galvanized steel

Article No.	Dimension	QTY
2908 6	6	50
2908 8	8	50
2908 10	10	50

(Dia. mm)



Lubricating Nipples DIN 71412 H1, H2, H3, Assortm.

- 150 pieces

Article No.	Article Description	QTY
9000 290	ASS.LUBRICATING NIPPLES 71412	1
9000R 290	TRAY LUBRICAT.NIPPLES 71412	1



Multiple Range Blind Rivet, Mushroom Head AL/St

Rivet sleeve: Aluminium

Mandrel: Galvanized steel

- Maximum clamping range:
- Minimizes stock
- Reduces sources of error
- Ideal fit in bore and reliable mandrel locking during formation of head
- High strength, splash-proof rivet connection
- Extended bore range



Article No.	Dimension	QTY
2730 32 86	3,2 x 8	HR 500
2730 32 95	3,2 x 9,5	HR 500
2730 32 111	3,2 x 11,1	HR 500
2730 4 95	4 x 9,5	HR 500
2730 4 127	4 x 12	500
2730 4 169	4 x 16	HR 500
2730 48 103	4,8 x 10	HR 500
2730 48 169	4,8 x 17	HR 500
2730 48 248	4,8 x 25	300

(Dia. x length mm)

Specifications

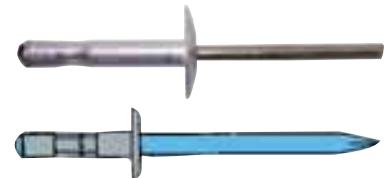
Bore dia. mm	Clamping range mm	Head dia. mm	Head h mm
3.3 - 3.5	1.0 - 5.0	6.0	1.1
3.3 - 3.5	1.3 - 6.4	6.0	1.1
3.3 - 3.5	4.0 - 7.9	6.0	1.4
4.1 - 4.3	1.2 - 6.4	8.0	1.7
4.1 - 4.3	3.5 - 8.5	8.0	1.7
4.1 - 4.3	6.0 - 12.5	8.0	1.7
4.9 - 5.2	1.0 - 6.0	9.5	2.0
4.9 - 5.2	6.4 - 12.7	9.5	2.0
4.9 - 5.2	12.7 - 21.10	9.5	2.0

Multiple Range Blind Rivet, Lg. Mushroom Head AL/S

Rivet sleeve: Aluminium

Mandrel: Galvanized steel

- Maximum clamping range:
- Minimizes stock
- Reduces sources of error
- Ideal fit in bore and reliable mandrel locking during formation of head
- High strength, splash-proof rivet connection
- Extended bore range



Article No.	Dimension	QTY
2731 32 8	3,2 x 8	H 500
2731 32 9	3,2 x 9,5	500
2731 32 11	3,2 x 11	HR 500
2731 4 11	4 x 11,1	HR 500
2731 4 12	4 x 12	HR 500
2731 4 16	4 x 16	500
2731 48 10	4,8 x 10	HR 500
2731 48 16	4,8 x 16	H 500
2731 48 24	4,8 x 24	R 500

(Dia. x length mm)

Specifications

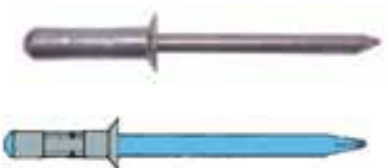
Bore dia. mm	Clamping range mm	Head dia. mm	Head h mm
3.3 - 3.5	0.7 - 4.8	9.5	2.0
3.3 - 3.5	1.3 - 6.4	9.5	2.0
3.3 - 3.5	4.0 - 7.9	9.5	2.0
4.1 - 4.3	1.3 - 6.4	12.0	2.5
4.1 - 4.3	4.0 - 9.6	12.0	2.5
4.1 - 4.3	6.0 - 13.8	12.0	2.5
4.9 - 5.2	1.6 - 6.4	16.0	2.5
4.9 - 5.2	6.3 - 12.7	16.0	2.5
4.9 - 5.2	12.7 - 19.8	16.0	2.5

Multigrade Blind Rivet Countersunk AL/St

Rivet sleeve : aluminium

Mandrel: steel, yellow chromed

- Big clamping area:
- minimized storing
- less sources of error
- Ideal bore-hole filling and safe mandrel locking at the locking of the head
- High-strength and splash-proof rivet connection
- Extended bore-hole area



Article No.	Dimension	QTY
2732 32 97	3,2 x 9,7	500
2732 4 113	4 x 11,3	H 500
2732 48 121	4,8 x 12	500
2732 48 169	4,8 x 16	500

(Ø x length mm)

Specifications

Drill-Ø mm	Clamping area mm	Head Ø mm	Head h mm
3,3 - 3,5	2,3 - 6,4	6,0	1,1
4,1 - 4,3	2,8 - 7,9	8,0	1,3
4,9 - 5,2	2,0 - 8,0	9,5	1,5
4,9 - 5,2	6,0 - 12,0	9,5	1,5

Blind Rivet Truss-head AL/AL Triform

Rivet sleeves and mandrel: aluminium

- Big clamping area: minimum storing = less sources of error
- Ideal for the fixation of soft or brittle sub-constructions e.g. Renault: numberplate holder, bumper, wood, plastic, plaster



Article No.	Dimension	QTY
2721 48 16	4,8 x 16	300
2721 48 21	4,8 x 21	300

(Ø x length mm)

Specifications

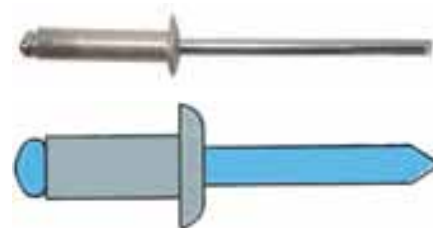
Drill-Ø mm	Clamping area mm	Head Ø mm
5,0 - 5,2	1 - 3	9,6
5,0 - 5,2	3 - 9	9,6

Blind Rivet with Truss-head AL/St

Rivet sleeve: aluminium

Mandrel: steel zinc plated

- For safe fixations of components made of same and different materials
- Connections which can not be loosened (can only be loosened by damage)
- Application possible only from one side, ideal fixation at hollow section-components or at areas difficult of access
- High strength at radial and axial load



Article No.	Dimension	QTY
2710 24 6	2,4 x 6	500
2710 3 4	3 x 4	F 1000
2710 3 6	3 x 6	HRF 1000
2710 3 8	3 x 8	HRF 1000
2710 3 10	3 x 10	HRF 1000
2710 3 12	3 x 12	HR 500
2710 3 16	3 x 16	HR 500
2710 32 6	3,2 x 6	500
2710 32 8	3,2 x 8	500
2710 32 10	3,2 x 10	500
2710 32 12	3,2 x 12	500
2710 4 6	4 x 6	HRF 1000
2710 4 8	4 x 8	HRF 1000
2710 4 10	4 x 10	HRF 1000
2710 4 12	4 x 12	HRF 1000
2710 4 16	4 x 16	HRF 1000
2710 4 18	4 x 18	500
2710 4 20	4 x 20	R 500
2710 4 25	4 x 25	500
2710 4 30	4 x 30	500
2710 48 12	4,8 x 12	500
2710 48 16	4,8 x 16	500
2710 48 25	4,8 x 25	500
2710 48 40	4,8 x 40	500
2710 5 6	5 x 6	F 1000
2710 5 8	5 x 8	HRF 1000
2710 5 10	5 x 10	HRF 1000
2710 5 12	5 x 12	HRF 1000
2710 5 14	5 x 14	HRF 1000
2710 5 16	5 x 16	HRF 1000
2710 5 18	5 x 18	R 500
2710 5 20	5 x 20	HR 500
2710 5 25	5 x 25	HR 500
2710 5 27	5 x 27	300
2710 5 30	5 x 30	500
2710 5 35	5 x 35	500
2710 5 40	5 x 40	500
2710 5 50	5 x 50	500
2710 6 8	6 x 8	R 500
2710 6 10	6 x 10	R 500
2710 6 12	6 x 12	HR 500
2710 6 16	6 x 16	HR 500
2710 6 18	6 x 18	HR 500
2710 6 22	6 x 22	HR 500
2710 6 26	6 x 26	100
2710 64 12	6,4x 12	500
2710 64 15	6,4 x 15	500

(Ø x length mm)

Specifications

Bore dia-Ø mm	Material- strength mm	Head dia. Ø mm	Head h mm
2,4	2,0 - 4,0	5,0	0,55
3,1	0,5 - 1,5	6,5	0,8
3,1	1,5 - 3,5	6,5	0,8
3,1	3,5 - 5,5	6,5	0,8
3,1	5,5 - 7,0	6,5	0,8
3,1	7,0 - 9,0	6,5	0,8
3,1	11,0 - 13,0	6,5	0,8
3,3	1,5 - 3,5	6,5	0,8
3,3	3,5 - 5,0	6,5	0,8
3,3	5,0 - 7,0	6,5	0,8
3,3	7,0 - 9,0	6,5	1,0
4,1	1,5 - 3,0	8,0	1,0
4,1	3,0 - 5,0	8,0	1,0
4,1	5,0 - 6,5	8,0	1,0
4,1	6,5 - 8,5	8,0	1,0
4,1	10,5 - 12,5	8,0	1,0
4,1	12,5 - 14,5	8,0	1,0
4,1	14,5 - 16,5	8,0	1,0
4,1	19,0 - 21,5	8,0	1,0
4,1	21,5 - 26,0	8,0	1,0
4,9	6,0 - 8,0	9,5	1,1
4,9	10,0 - 12,0	9,5	1,1
4,9	18,0 - 21,0	9,5	1,1
4,9	30,0 - 35,0	9,5	1,1
5,1	0,5 - 2,5	9,5	1,1
5,1	2,5 - 4,5	9,5	1,1
5,1	4,5 - 6,0	9,5	1,1
5,1	6,0 - 8,0	9,5	1,1
5,1	8,0 - 10,0	9,5	1,1
5,1	10,0 - 12,0	9,5	1,1
5,1	12,0 - 14,0	9,5	1,1
5,1	14,0 - 17,0	9,5	1,1
5,1	17,0 - 20,0	9,5	1,1
5,1	20,0 - 23,0	9,5	1,1
5,1	23,0 - 25,0	9,5	1,1
5,1	25,0 - 30,0	9,5	1,1
5,1	30,0 - 35,0	9,5	1,1
5,1	40,0 - 45,0	9,5	1,1
6,1	2,0 - 4,0	12,0	1,5
6,1	4,0 - 6,0	12,0	1,5
6,1	6,0 - 8,0	12,0	1,5
6,1	9,0 - 11,0	12,0	1,5
6,1	11,0 - 13,0	12,0	1,5
6,1	13,0 - 17,0	12,0	1,5
6,1	17,0-20,0	12,0	1,5
6,5	4,0-6,0	13,0	1,8
6,5	6,0-9,0	13,0	1,8

Blind Rivets with Mushroom Head Cu/St

Rivet sleeve: Copper

Mandrel: Galvanized steel

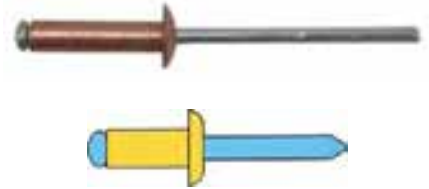
- For reliably fastening components of same and different materials
- Connections not detachable (detachment possible only through destruction)
- Installatoin from one side only, ideal for

fastening to hollow components or hard-to-reach locations.

- High strength for radial and axial loads

Specifications

Bore dia. mm	Material thickness mm	Head h mm	Head h mm
3.1	1.0 - 3.0	6.5	0.8
3.1	3.0 - 5.0	6.5	0.8
3.1	5.0 - 7.0	6.5	0.8
3.1	7.0 - 9.0	6.5	0.8
4.1	1.0 - 2.0	8.0	1.3
4.1	2.0 - 4.0	8.0	1.0
4.1	4.0 - 6.0	8.0	1.0
4.1	6.0 - 8.0	8.0	1.0
4.1	10.0 - 12.0	8.0	1.0



(Dia. x length mm)

Blind Rivet with Mushroom Head A2/A2

Rivet sleeve and mandrel: Stainless steel A2

- For reliably fastening components of same and different materials
- Connections not detachable (detachment possible only through destruction)

- Installatoin from one side only, ideal for fastening to hollow components or hard-to-reach locations.
- High strength for radial and axial loads

Specifications

Bore dia. mm	Material- thickness mm	Head Ø mm	Head h mm
3.1	1.0 - 3.0	6.5	0.8
3.1	3.0 - 5.0	6.5	0.8
3.1	5.0 - 7.0	6.5	0.8
3.1	7.0 - 9.0	6.5	0.8
3.1	9.0 - 12.0	6.5	0.8
3.3	1.0 - 3.0	6.5	0.8
3.3	3.0-5.0	6.5	0.8
3.3	5.0 - 7.0	6.5	0.8
3.3	7.0 - 9.0	6.5	0.8
3.3	9.0 - 12.0	6.5	0.8
4.1	1.0 - 2.5	8.0	0.8
4.1	2.5 - 4.5	8.0	0.8
4.1	4.5 - 6.5	8.0	1.0
4.1	6.5 - 9.5	8.0	1.0
4.1	9.5 - 12.0	8.0	1.0
4.1	12.0 - 14.0	8.0	1.0
5.1	2.0 - 4.0	9.5	1.1
5.1	4.0 - 16.0	9.5	1.1
5.1	6.0 - 8.0	9.5	1.1
5.1	8.0 - 11.0	9.5	1.1
4.9	11.0 - 13.0	9.5	1.1
4.9	11.0 - 15.0	9.5	1.1
4.9	17.0 - 20.0	9.5	1.1



(Dia. x length mm)

Blind Rivets with Mushroom Head AL Black /St

Rivet sleeve: Aluminium, black enamel finish

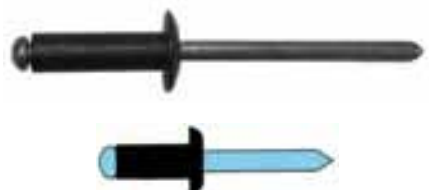
Mandrel: Galvanized steel

- For reliably fastening components of same and different materials
- Connections not detachable (detachment possible only through destruction)

- Installatoin from one side only, ideal for fastening to hollow components or hard-to-reach locations.
- High strength for radial and axial loads

Specifications

Bore dia. mm	Material- thickness mm	Head dia. mm	Head h mm
3.1	3.5 - 5.5	6.5	0.8
3.1	5.5 - 7.0	6.5	0.8
4.1	3.0 - 5.0	8.0	1.0
4.1	5.0 - 6.5	8.0	1.0
4.1	6.5 - 8.5	8.0	1.0
4.9	4.5 - 6.0	9.5	1.1
4.9	6.0 - 8.0	9.5	1.1
4.9	10.0 - 12.0	9.5	1.1



Blind Rivet with Truss-head St/St

Rivet sleeve: steel zinc plated

Mandrel: steel zinc plated

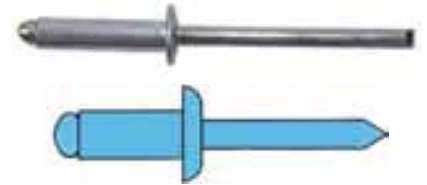
- For safe fixations of components made of same and different materials
- Connections which can not be loosened (can only be loosened by damage)
- Application possible only from one side, ideal fixation at hollow section-components or at areas difficult of access
- High strength at radial and axial load

Article No.	Dimension	QTY
2713 3 6	3 x 6	500
2713 3 8	3 x 8	500
2713 3 10	3 x 10	500
2713 3 16	3 x 14	500
2713 4 6	4 x 6	500
2713 4 8	4 x 8	500
2713 4 10	4 x 10	500
2713 4 12	4 x 12	500
2713 4 16	4 x 16	500
2713 5 8	5 x 8	500
2713 5 10	5 x 10	500
2713 5 12	5 x 12	500
2713 5 14	5 x 14	500
2713 5 16	5 x 16	500
2713 5 20	5 x 20	300
2713 5 25	4,8 x 25	500
2713 6 12	6 x 12	300
2713 6 18	6 x 18	300

(Ø x length mm)

Technical Data

Drill-Ø mm	Material- strength mm	Head Ø mm	Head h mm
3,1	1,5 - 3,0	6,5	0,8
3,1	3,0 - 5,0	6,5	0,8
3,1	5,0 - 7,0	6,5	0,8
3,1	9,0 - 11,0	6,5	0,8
4,1	0,5 - 2,5	8,0	1,0
4,1	2,5 - 4,5	8,0	1,0
4,1	4,5 - 6,5	8,0	1,0
4,1	6,5 - 8,5	8,0	1,0
4,1	8,5 - 10,5	8,0	1,0
5,1	2,5 - 4,0	9,5	1,1
5,1	4,0 - 6,0	9,5	1,1
5,1	6,0 - 8,0	9,5	1,1
5,1	8,0 - 10,0	9,5	1,1
5,1	10,0 - 11,5	9,5	1,1
5,1	13,5 - 15,0	9,5	1,1
5,1	17,0 - 20,0	9,5	1,1
6,1	4,5 - 6,5	12,0	1,5
6,1	9,5 - 12,5	12,0	1,5



Peel Rivet with Mushroom Head AL/St

Rivet sleeve: Aluminium

Mandrel: Galvanized steel

- For fastening to soft or brittle subsurfaces, wood, plastic, plasterboard
- Also usable for oversized bores and varying material thicknesses

Article No.	Dimension	QTY
2719 32 16	3,2 x 16	500
2719 48 12	4,8 x 12	500
2719 48 16	4,8 x 16	HR 500
2719 48 20	4,8 x 20	R 500
2719 48 25	4,8 x 25	R 500
2719 48 30	4,8 x 30	300
2719 48 35	4,8 x 35	300

(Dia. x length mm))

Specifications

Bore dia. mm	Rivettable material thickness mm	Head
max. 5,3	7,0-9,0	0,8
max. 5,3	2,0 - 6,0	1,3
max. 5,3	6,0 - 10,0	1,3
max. 5,3	10,0 - 14,0	1,3
max. 5,3	16,0 - 19,0	1,3
max. 5,3	19,0 - 24,0	1,3
max. 5,3	24,0 - 29,0	1,3



Blind Rivets with Countersunk Head AL/St

Rivet sleeve: Aluminium

Mandrel: Galvanized steel

Article No.	Dimension	QTY
2711 3 6	3 x 6	500
2711 3 8	3 x 8	500
2711 3 10	3 x 10	500
2711 3 12	3 x 12	500
2711 4 6	4 x 6	500
2711 4 8	4 x 8	500
2711 4 10	4 x 10	500
2711 4 12	4 x 12	500
2711 4 16	4 x 16	500
2711 4 18	4 x 18	500
2711 5 8	5 x 8	500
2711 5 10	5 x 10	500
2711 5 12	5 x 12	500
2711 5 14	5 x 14	500
2711 5 16	5 x 16	500
2711 5 18	5 x 18	500

(Dia. x length mm)

Specifications

Bore dia. mm	Rivettable material thickness mm
3,1	1,5 - 3,5
3,1	3,5 - 5,5
3,1	5,5 - 7,0
3,1	7,0 - 9,0
4,1	1,5 - 3,0
4,1	3,0 - 5,0
4,1	5,0 - 6,5
4,1	6,5 - 8,5
4,1	10,5 - 12,5
4,1	12,5 - 14,5
5,1	2,5 - 4,5
5,1	4,5 - 6,0
5,1	6,0 - 8,0
5,1	8,0 - 10,0
5,1	10,0 - 12,0
5,1	12,0 - 14,0



Blind Rivets with Lg. Mushroom Head AL/St, 11 mm

Rivet sleeve: Aluminium

Mandrel: Galvanized steel

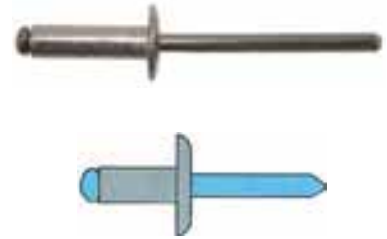
- For fastening sort or brittle materials to metal substructures
- Head: 11 mm

Article No.	Dimension	VPE
2705 5 8	4,8 x 8	500
2705 5 10	4,8 x 10	500
2705 5 12	4,8 x 12	HR 500
2705 5 14	4,8 x 14	500
2705 5 16	4,8 x 16	500
2705 5 18	4,8 x 18	300
2705 5 20	4,8 x 20	300

(Dia. x length mm)

Specifications

Bore dia. mm	Rivetable material thickness mm	Head h mm
4.9	2.0 - 4.5	1.8
4.9	3.5 - 7.0	1.8
4.9	5.0 - 8.5	1.8
4.9	7.0 - 10.0	1.8
4.9	8.5 - 11.5	1.8
4.9	10.0 - 12.5	1.8
4.9	12.5 - 16.0	1.8



Blind Rivets with Lg. Mushroom Head AL/St, 14 mm

Rivet sleeve: Aluminium

Mandrel: Galvanized steel

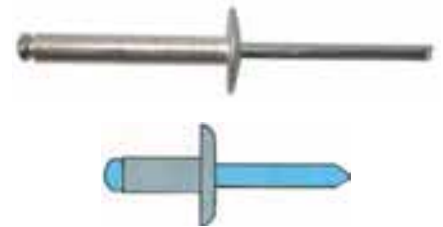
- For fastening sort or brittle materials to metal substructures
- Head: 14 mm

Article No.	Dimension	QTY
2706 5 8	5 x 8	R 500
2706 5 10	5 x 10	HR 500
2706 5 12	5 x 12	HR 500
2706 5 14	5 x 14	HR 500
2706 5 16	5 x 16	HR 500
2706 5 18	5 x 18	R 500
2706 5 20	5 x 21	R 500
2706 5 25	5 x 24	R 500
2706 5 27	5 x 27	R 500
2706 5 30	5 x 30	R 500

(Dia. x length mm)

Specifications

Bore dia. mm	Rivetable material thickness mm	Head h mm
5.1	2.5 - 4.5	2.5
5.1	4.5 - 6.0	2.5
5.1	6.0 - 8.0	2.5
5.1	8.0 - 10.0	2.5
5.1	10.0 - 12.0	2.5
5.1	12.0 - 14.0	2.5
5.1	14.0 - 17.0	2.5
5.1	17.0 - 20.0	2.5
5.1	20.0 - 23.0	2.5
5.1	23.0 - 26.0	2.5



Blind Rivets with Lg. Mushroom HD AL Black/St 12mm

Rivet sleeve: Aluminium black enamel finish

Mandrel: Galvanized steel

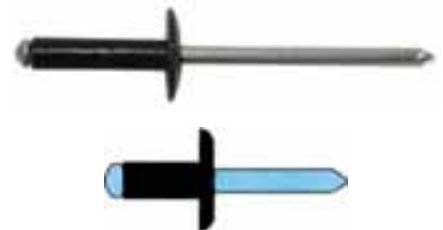
- For fastening sort or brittle materials to metal substructures
- Head: 12 mm

Article No.	Dimension	QTY
2707 4 10	4 x 10	HR 500
2707 4 12	4 x 12	HR 500
2707 4 14	4 x 14	HR 500
2707 4 16	4 x 16	HR 500

(Dia. x length mm)

Specifications

Bore dia. mm	Rivetable material thickness mm	Head h mm
4.1	5.0 - 6.5	2.5
4.1	6.5 - 8.5	2.5
4.1	10.5 - 12.5	2.8
4.1	10.5 - 12.5	2.5



Blind Rivets with Lg. Mushroom HD AL Black/St 14mm

Rivet sleeve: Aluminium black enamel finish

Mandrel: Galvanized steel

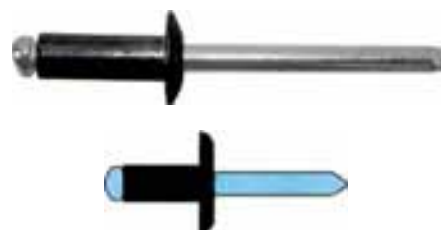
- For fastening soft or brittle materials to metal substructures
- Head: 14 mm

Article No.	Dimension	QTY
2708 5 12	4,8 x 12	HR 500
2708 5 14	4,8 x 14	HR 500
2708 5 16	4,8 x 16	HR 500

(Dia. x length mm)

Specifications

Bore dia. mm	Rivetable material thickness mm	Head h mm
4.9	6.0 - 8.0	2.5
4.9	8.0 - 10.0	2.5
4.9	10.0 - 12.0	2.5



Closed End Blind Rivets with Mushroom Head AL/St

Rivet sleeve: Aluminium

Mandrel: Greased steel

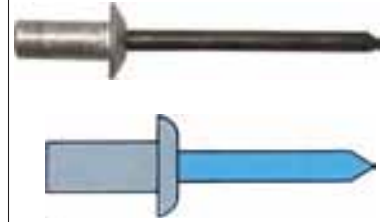
- Air and water-tight blind rivet

Article No.	Dimension	QTY
2718 32 65	3,2 x 6,5	500
2718 32 8	3,2 x 8	500
2718 32 95	3,2 x 9,5	500
2718 32 11	3,2 x 11	500
2718 32 125	3,2 x 12,5	500
2718 4 8	4 x 8	500
2718 4 95	4 x 9,5	500
2718 4 11	4 x 11	500
2718 4 125	4 x 12,7	500
2718 48 95	4,8 x 9,5	500
2718 48 11	4,8 x 11	500
2718 48 125	4,8 x 12,5	500
2718 48 14	4,8 x 14	500
2718 48 16	4,8 x 16	500
2718 48 18	4,8 x 18	500
2718 48 21	4,8 x 21	250
2718 48 25	4,8 x 25	500

(Dia. x length mm)

Specifications

Bore dia.	Rivettable material	Head dia.	Head h
mm	thickness mm	mm	mm
3.3	0.5 - 2.0	6.0	1.4
3.3	2.0 - 3.5	6.0	1.4
3.3	3.5 - 5.0	6.0	1.4
3.3	5.0 - 6.5	6.0	1.4
3.3	6.5 - 8.0	6.0	1.4
4.1	0.5 - 3.5	8.0	1.7
4.1	3.5 - 4.5	8.0	1.7
4.1	4.5 - 6.5	8.0	1.7
4.1	6.5 - 8.0	8.0	1.7
4.9	3.0 - 4.5	9.5	2.0
4.9	4.5 - 6.0	9.5	2.0
4.9	6.0 - 7.5	9.5	2.0
4.9	7.5 - 9.0	9.5	2.0
4.9	9.0 - 11.0	9.5	2.0
4.9	11.0 - 13.0	9.5	2.0
4.9	13.0 - 16.0	9.5	2.0
4.9	16.0 - 19.0	9.5	2.0



Closed End Blind Rivets with Mushroom Head AL/A2

Rivet sleeve: Aluminium

Mandrel: Stainless steel A2

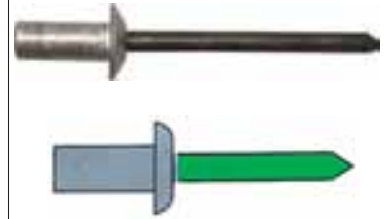
- Air and water-tight blind rivet

Article No.	Dimension	QTY
2723 32 65	3,2 x 6	500
2723 32 8	3,2 x 8	500
2723 32 95	3,2 x 9,5	500
2723 32 11	3,2 x 11	500
2723 32 127	3,2 x 12,7	500
2723 4 8	4 x 8	500
2723 4 95	4 x 9,5	500
2723 4 11	4 x 11	500
2723 4 127	4 x 12,7	500
2723 48 95	4,8 x 9,5	500
2723 48 11	4,8 x 11	500
2723 48 125	4,8 x 12,5	500
2723 48 14	4,8 x 14	500
2723 48 16	4,8 x 16	500
2723 48 21	4,8 x 21	500

(Dia. x length mm)

Specifications

Bore dia.	Rivettable material	Head dia.	Head h
mm	thickness mm	mm	mm
3.3	0.5 - 2.0	6.0	1.4
3.3	2.0 - 3.5	6.0	1.4
3.3	3.5 - 5.0	6.0	1.4
3.3	5.0 - 6.5	6.0	1.4
3.3	6.5 - 8.0	6.0	1.4
4.1	0.5 - 3.5	8.0	1.7
4.1	3.5 - 5.0	8.0	1.7
4.1	5.0 - 6.5	8.0	1.7
4.1	6.5 - 8.0	8.0	1.7
4.9	3.0 - 4.5	9.5	2.0
4.9	4.5 - 6.0	9.5	2.0
4.9	6.0 - 7.5	9.5	2.0
4.9	7.5 - 9.0	9.5	2.0
4.9	9.0 - 11.0	9.5	2.0
4.9	13.0 - 16.0	9.5	2.0



Closed End Blind Rivets with Mushroom Head Cu/St

Rivet sleeve: Copper

Mandrel: Greased steel

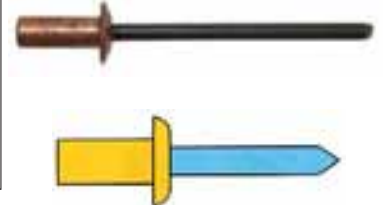
- Air and water-tight blind rivet

Article No.	Dimension	QTY
2724 32 65	3,2 x 6,5	500
2724 32 8	3,2 x 8	500
2724 32 95	3,2 x 9,5	500
2724 4 8	4 x 8	500
2724 4 95	4 x 10	500

(Dia. x length mm)

Specifications

Bore dia.	Rivettable material	Head dia.	Head h
mm	thickness mm	mm	mm
3.3	0.5 - 2.0	6.0	1.4
3.3	2.0 - 3.5	6.0	1.4
3.3	3.5 - 5.0	6.0	1.4
4.1	0.5 - 3.5	8.0	1.7
4.1	3.5 - 5.0	8.0	1.7



Closed End Blind Rivets with Mushroom Head Cu/A2

Rivet sleeve: Copper

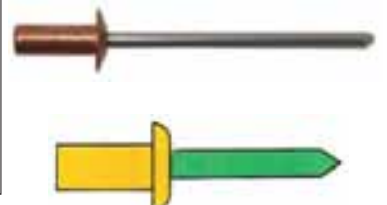
Mandrel: Stainless steel A2

- Air and water-tight blind rivet

Article No.	Dimension	QTY
2725 32 65	3,2 x 6,5	500
2725 32 8	3,2 x 8	500
2725 32 95	3,2 x 10	500
2725 4 8	4 x 8	500
2725 4 95	4 x 10	500

Specifications

Bore dia.	Rivettable material	Head dia.	Head h
mm	thickness mm	mm	mm
3.3	0.5 - 2.0	6.0	1.4
3.3	2.0 - 3.5	6.0	1.4
3.3	3.5 - 5.0	6.0	1.4
4.1	0.5 - 3.5	8.0	1.7
4.1	3.5 - 5.0	8.0	1.7



Plumber's Rivets with Mushroom Head St/St

Rivet sleeve and mandrel: Galvanized steel

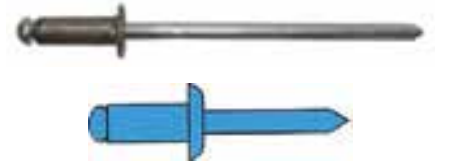
- For the riveting gutters and accessories

Article No.	Dimension	QTY
2726 32 63	3,2 x 6,3	F 1000
2726 32 8	3,2 x 8	500
2726 32 93	3,2 x 9,3	500

(Dia. x length mm)

Specifications

Bore dia. mm	Rivetable material thickness mm
3.3	1.5 - 3.5
3.3	3.5 - 5.5
3.3	5.5 - 7.0



Plumber's Rivet with Mushroom Head CU/Bronze

Rivet sleeve: Copper

Mandrel: Bronze

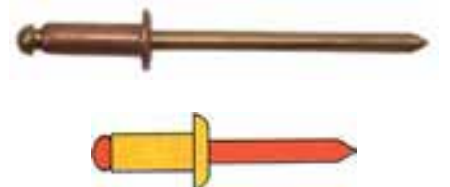
- For the riveting gutters and accessories

Article No.	Dimension	QTY
2727 32 5	3,2 x 5	F 1000
2727 32 6	3,2 x 6	F 1000
2727 32 8	3,2 x 9	500
2727 32 10	3,2 x 10	500

(Dia. x length mm)

Specifications

Bore dia. mm	Rivetable material Thickness mm	Head
3.3	0.5 - 1.5	0.8
3.3	1.5 - 2.5	0.8
3.3	3.5 - 5.5	0.8
3.3	5.5 - 7.5	0.8



Plumber's Rivet with Mushroom Head Tin/St

Rivet sleeve: Tin

Mandrel: Galvanized steel

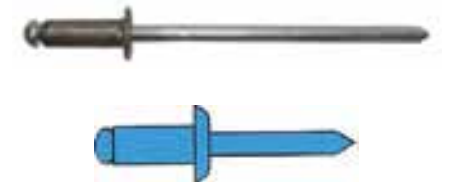
- For the riveting gutters and accessories
- Tin-plated and can be soldered easily

Article No.	Dimension	QTY
2728 32 6	3,2 x 6	500
2728 32 8	3,2 x 8	500
2728 32 10	3,2 x 10	500

(Dia. x length mm))

Specifications

Bore dia. mm	Rivetable material thickness mm
3.3	0.5 - 2.5
3.3	2.5 - 4.5
3.3	4.5 - 6.5



Plumber's Rivet with Mushroom Head Monel/A2

Rivet sleeve: monel

Mandrel: Stainless steel A2

- For the riveting gutters and accessories
- Suitable for UGINOX soldering

Article No.	Dimension	QTY
2729 32 6	3,2x6	500
2729 32 8	3,2x8	500
2729 32 10	3,2x10	500

(Dia. x length mm))

Specifications

Bore dia. mm	Rivetable material thickness mm
3.3	0.5 - 3.0
3.3	3.0 - 5.0
3.3	5.0 - 7.0



Blind Rivets, Coloured, with Mushroom Head AL/St

Rivet sleeve: Aluminium

Mandrel: Steel

- For reliably fastening components of same and different materials
- Connections not detachable (detachment possible only through destruction)
- High strength for radial and axial loads

			Specifications				
Items no.	Dimension	QTY	Bore dia. mm	Material thickness mm	Head dia. mm	Head h mm	Colour
2709 32 6 0	3,2 x 6	500	3.3	1.0 - 3.0	6.5	0.8	p-brown
2709 32 6 1	3,2 x 6	500	3.3	1.0 - 3.0	6.5	0.8	copper brown
2709 32 6 2	3,2 x 6	500	3.3	1.0 - 3.0	6.5	0.8	white
2709 32 6 3	3,2 x 6	500	3.3	1.0 - 3.0	6.5	0.8	anthracite
2709 32 6 4	3,2 x 6	500	3.3	1.0 - 3.0	6.5	0.8	moss green
2709 32 6 5	3,2 x 6	500	3.3	1.0 - 3.0	6.5	0.8	grey
2709 32 6 7	3,2 x 6	500	3.3	1.0 - 3.0	6.5	0.8	t-brown
2709 32 6 8	3,2 x 6	500	3.3	1.0 - 3.0	6.5	0.8	oxide red
2709 32 8 0	3,2 x 8	500	3.3	3.5 - 5.5	6.5	0.8	p-brown
2709 32 8 1	3,2 x 8	500	3.3	3.5 - 5.5	6.5	0.8	copper brown
2709 32 8 2	3,2 x 8	500	3.3	3.5 - 5.5	6.5	0.8	white
2709 32 8 3	3,2 x 8	500	3.3	3.5 - 5.5	6.5	0.8	anthracite
2709 32 8 4	3,2 x 8	500	3.3	3.5 - 5.5	6.5	0.8	moss grey
2709 32 8 5	3,2 x 8	500	3.3	3.5 - 5.5	6.5	0.8	grey
2709 32 8 7	3,2 x 8	500	3.3	3.5 - 5.5	6.5	0.8	p-brown
2709 32 8 8	3,2 x 8	500	3.3	3.5 - 5.5	6.5	0.8	oxide red
2709 40 8 0	4,0 x 8	500	4.1	2.5 - 4.5	8	0.8	p-brown
2709 40 8 1	4,0 x 8	500	4.1	2.5 - 4.5	8	0.8	copper brown
2709 40 8 2	4,0 x 8	500	4.1	2.5 - 4.5	8	0.8	white
2709 40 8 3	4,0 x 8	500	4.1	2.5 - 4.5	8	0.8	anthracite
2709 40 8 4	4,0 x 8	500	4.1	2.5 - 4.5	8	0.8	moss green
2709 40 8 5	4,0 x 8	500	4.1	2.5 - 4.5	8	0.8	grey
2709 40 8 7	4,0 x 8	500	4.1	2.5 - 4.5	8	0.8	t-brown
2709 40 8 8	4,0 x 8	500	4.1	2.5 - 4.5	8	0.8	oxide red

(Dia. x length mm)



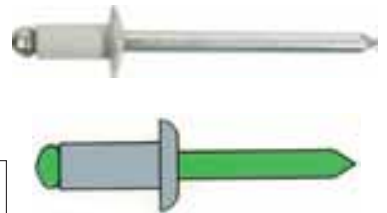
Blind Rivets, Coloured, with Mushroom Head AL/A2

Rivet sleeve: Aluminium

Mandrel: Steel

- For reliably fastening components of same and different materials
- Connections not detachable (detachment possible only through destruction)
- High strength for radial and axial loads
- Splashproof

			Specifications				
Article No.	Dimension	QTY	Drill-Ø mm	Material- strength mm	Head Ø mm	Head h mm	Colour
2709 32 8 9 0	3,2 x 8	500	3.3	3.5 - 5.5	6.5	0.8	p-brown
2709 32 8 9 1	3,2 x 8	500	3.3	3.5 - 5.5	6.5	0.8	copper brown
2709 32 8 9 2	3,2 x 8	500	3.3	3.5 - 5.5	6.5	0.8	white
2709 32 8 9 3	3,2 x 8	500	3.3	3.5 - 5.5	6.5	0.8	anthracite
2709 32 8 9 4	3,2 x 8	500	3.3	3.5 - 5.5	6.5	0.8	moss green
2709 40 10 9 0	4,0 x 10	500	4.1	0.5 - 6.5	8.0	1.0	p-brown
2709 40 10 9 1	4,0 x 10	500	4.1	0.5 - 6.5	8.0	1.0	copper brown
2709 40 10 9 2	4,0 x 10	500	4.1	0.5 - 6.5	8.0	1.0	white
2709 40 10 9 3	4,0 x 10	500	4.1	0.5 - 6.5	8.0	1.0	anthracite
2709 40 10 9 4	4,0 x 10	500	4.1	0.5 - 6.5	8.0	1.0	moss green
2709 40 10 9 5	4,0 x 10	500	4.1	0.5 - 6.5	8.0	1.0	grey
2709 40 10 9 6	4,0 x 10	500	4.1	0.5 - 6.5	8.0	1.0	light blue
2709 40 10 9 7	4,0 x 10	500	4.1	0.5 - 6.5	8.0	1.0	t-brown
2709 40 10 9 8	4,0 x 10	500	4.1	0.5 - 6.5	8.0	1.0	oxide red
2709 40 10 9 9	4,0 x 10	500	4.1	0.5 - 6.5	8.0	1.0	aluminium white



Plastic Rivets in Assortment

- 81-piece
- For the fixing of inner linings, inner mud guards, dasbpards etc.
- Usable for different vehicles such as BMW, Chrysler, Saab, Jaguar, Ford, etc.

Article No.	Article Description	QTY
9000 3040 3	ASSORTMENT PLASTIC RIVETS	1
9000R 3040 3	TRAY FOR PLASTIC RIVETS	1

Contents:

- 20x Art. No. 3040 4001 Plastic rivets 5.0 x 17.2 mm
- 20x Art. No. 3040 4002 Plastic rivets 5.0 x 15.8 mm
- 20x Art. No. 3040 4003 Plastic rivets 6.3 x 25.2 mm
- 20x Art. No. 3040 4004 Plastic rivets 6.6 x 17.2 mm
- 1x Art. No. 2722 20 1 Rivet gun for plastic rivets



Hand Rivet Gun for Plastic Rivets

- For plastic rivets 5.0 - 6.6 mm

Article No.	Article Description	QTY
2722 20 1	RIVET GUN FOR PLASTIC RIVETS	1



Hand Rivet Gun MFX 150 B

- With spring
- Robust design for 2.4 - 5.0 mm blind rivets
- Also suitable for stainless steel rivets
- Including nosepieces with diameter 3.0 - 5.0 mm

Article No.	Article Description	QTY
2722 1	MX150B HAND RIVET GUN	1
2722 3 24	REPL.NOSEPIECE RIVET 2.4MM	1
2722 3 32	REPL.NOSEPIECE RIVET 3/3.2MM	1
2722 3 4	REPL.NOSEPIECE RIVET 4MM	1
2722 3 5	REPL.NOSEPIECE RIVET 4.8/5MM	1



Hand Rivet Gun - Flipper

- For 2.4 - 5.0 mm aluminium blind rivets and 2.4 - 4.0 mm stainless rivets

Article No.	Article Description	QTY
2722 12	FLIPPER HAND RIVET GUN	1
2722 12 2	(PAIR)REP.CLAMP.JAWS F.FLIPPER	1



Hand Rivet Gun MFX 10 000

- For 2.4 - 5.0 mm aluminium rivets and 2.4 - 4.0 mm stainless steel rivets
- Adjustable to horizontal or vertical position
- Especially suitable for working in hard-to-reach areas

Article No.	Article Description	QTY
2722 3	HAND RIVETER MFX10000	1
2722 3 1	REPLACEMENT CLAMPING JAW-SET	1
2722 3 24	REPL.NOSEPIECE RIVET 2.4MM	1
2722 3 32	REPL.NOSEPIECE RIVET 3/3.2MM	1
2722 3 4	REPL.NOSEPIECE RIVET 4MM	1
2722 3 5	REPL.NOSEPIECE RIVET 4.8/5MM	1



Hand Rivet Gun MFX 260 Lever Type

- For easy processing of 3.0 - 6.4 mm blind rivets
- Also suitable for stainless steel rivets

Article No.	Article Description	QTY
2722 9	LEVER-ASSIST.HAND RIVET.MFX260	1
2722 9 1	REPL.CLAMP.JAW-SET(3P)F.MFX260	1
2722 9 32	REPL.NOSEPI.RIV.3/3.2MM MFX260	1
2722 9 4	REPL.NOSEPI.RIV.4MM MFX260	1
2722 9 5	REPL.NOSEPI.RIV.4.8/5MM MFX260	1
2722 9 6	REPL.NOSEPI.RIV.6MM MFX260	1
2722 9 64	REPL.NOSEPI.RIV.6.4MM MFX260	1



Pneumatic Blind Rivet Gun 6700

- Field of application: Blind rivet diameter 2.4 - 5.0 mm made of aluminium and copper
- Without pin suction

Technical Data

Pulling force (6.3 bar):	12000 N
Air consumption:	1.2 l/stroke
Weight:	1.6 Kg
Dimension LxHxW:	225 x 280 x 100 mm
Air connection:	1/4"
Suitable plug nipple	Art. No. 3926 14 1

Article No.	Article Description	QTY
2722 15	PNEUMATIC BLIND RIVET GUN 6700	1



Multi-Compressed Air-Blind Rivet Gun 501

- Field of application: Blind rivet diameter 2.4 - 5.0 made of aluminium, copper, steel, stainless steel
- Without pin suction
- With 40 cm hose connection including adapter

Technical Data

Pulling force (5.7 bar):	9000 N
Air consumption:	0.8 L/stroke
Weight:	1.5 kg
Dimension LxHxW:	220 x 280 x 100 mm

Article No.	Article Description	QTY
2722 16	MULTI-BLIND RIV.PNEUM.GUN 501	1



Battery Powered Rivet Tool 14.4V

- Field of application: Blind rivet up to 5 mm diameter all materials

Technical Data

Pulling strength:	8500 N	
Total stroke:	20 mm	
Weight:	2.0 kg (with batt.)	
Perf. per	batt. charge:	
Blind riv.-Ø mm	Material	Battery autonomy
2.4	Aluminium	1.500
3.0 and 3.2	Aluminium	800
3.0 and 3.2	Steel	800
3.0 and 3.2	Stainless steel	800
4.0	Aluminium	800
4.0	Steel	700
4.0	Stainless steel	640
4.8 and 5.0	Aluminium	550
4.8 and 5.0	Steel	420
4.8 and 5.0	Stainless steel	320



Article No.	Article Description	QTY
2722 11	GESIPA ACCU-BIRD-SET 14.4V	1
2722 11 1	QUICK-CHANGE.BATT.14.4V F.A.B.	1
2722 11 2	CHARGING DEVICE 14.4V LI-ION	1

Set includes:

- Accu-Bird with one rechargeable battery and battery charger in metal carrying case

Blind Rivet Nut Pliers Set MFX 306 S

- In aluminium case
- Robust design for blind rivet nuts with diameters M3, M4, M5, M6 galvanised steel

Article No.	Article Description	QTY
2748 1	BLIND RIV.NUT PL.SET MFX 306S	1

Set consist of:

- 1x Blind rivet nut pliers MFX 306
- 1x Art. No. 2748 1 3 Mandrel M3 with o-ring
- 1x Art. No. 2748 1 4 Mandrel M4 with o-ring
- 1x Art. No. 2748 1 5 Mandrel M5 with o-ring
- 1x Art. No. 2748 1 6 Mandrel M6 with o-ring
- 1x Nosepiece M3, M4, M5, M6
- 50x Art. No. 2742 3 3 Blind rivet nut flat head, corrugated M3-3
- 50x Art. No. 2742 4 3 Blind rivet nut flat head, corrugated M4-3
- 50x Art. No. 2742 5 3 Blind rivet nut flat head, corrugated M5-3
- 25x Art. No. 2742 6 3 Blind rivet nut flat head, corrugated M6-3



Blind Rivet Nut Pliers Set MFX 306 S - Accessories

Article No.	Article Description	QTY
2748 1 3	MANDR.M3 WITH O-RING F.MFX 306	1
2748 1 4	MANDR.M4 WITH O-RING F.MFX 306	1
2748 1 5	MANDR.M5 WITH O-RING F.MFX 306	1
2748 1 6	MANDR.M6 WITH O-RING F.MFX 306	1
2742 3 25	FH-BLIN.RIV.NUT ST RIB.M 3-2.5	f 100
2742 4 3	FH-BLIN.RIV.NUT ST RIB.M 4-3	gf 100
2742 5 3	FH-BLIN.RIV.NUT ST RIB.M 5-3	gf 100
2742 6 3	FH-BLIN.RIV.NUT ST RIB.M 6-3	gf 100



Blind Rivet Nut Pliers Set MFX 360 S

- In aluminium case
- Solid design for blind rivet nuts with Ø M3, M4, M5, M6 galvanised steel + blind rivet screws M4 - M6 galvanised steel

Article No.	Article Description	QTY
2748 5	BLIND RIV.NUT PL.SET MFX 360S	1

Set Consists of:

- 1x Blind rivet nut pliers MFX 360
- 1x Art. No. 2748 5 4 1 Threaded sleeve M4 with o-ring
- 1x Art. No. 2748 5 5 1 Threaded sleeve M5 with o-ring
- 1x Art. No. 2748 5 6 1 Threaded sleeve M6 with o-ring
- 1x Art. No. 2748 5 3 Mandrel M3 with o-ring
- 1x Art. No. 2748 5 4 Mandrel M4 with o-ring
- 1x Art. No. 2748 5 5 Mandrel M5 with o-ring
- 1x Art. No. 2748 5 6 Mandrel M6 with o-ring
- 1x Nosepiece M3, M4, M5, M6
- 30x Art. No. 2742 4 3 Blind rivet nut flat head, corrugated M4-3
- 30x Art. No. 2742 5 3 Blind rivet nut flat head, corrugated M5-3
- 30x Art. No. 2742 6 3 Blind rivet nut flat head, corrugated M6-3
- 30x Art. No. 2745 4 Blind rivet nut, small countersunk head, corrugated M4-2,5
- 30x Art. No. 2745 5 Blind rivet nut, small countersunk head, corrugated M5-3
- 30x Art. No. 2745 6 Blind rivet nut, small countersunk head, corrugated M6-3



Blind Rivet Nut Pliers Set MFX 360 S - Accessories



Article No.	Article Description	QTY
2748 5 4 1	THRE.SLEE.M4 W.O-RING F.MFX360	1
2748 5 5 1	THRE.SLEE.M5 W.O-RING F.MFX360	1
2748 5 6 1	THRE.SLEE.M6 W.O-RING F.MFX360	1
2748 5 3	MANDREL M3 W.O-RING F.MFX 360	1
2748 5 4	MANDREL M4 W.O-RING F.MFX 360	1
2748 5 5	MANDREL M5 W.O-RING F.MFX 360	1
2748 5 6	MANDREL M6 W.O-RING F.MFX 360	1
2742 4 3	FH-BLIN.RIV.NUT ST RIB.M 4-3	gf 100
2742 5 3	FH-BLIN.RIV.NUT ST RIB.M 5-3	gf 100
2742 6 3	FH-BLIN.RIV.NUT ST RIB.M 6-3	gf 100
2745 4	MINI CSK KN.BL.R.NUT ST.M4-2,5	gf 100
2745 5	MINI CSK KN.BL.R.NUT ST.M 5-3	gf 100
2745 6	MINI CSK KN.BL.R.NUT ST.M 6-3	gf 100

Lever-Rivet Nut Pliers Set MFX 510 QI

- In aluminium case
- For standard processing of blind rivet guns M5, M6, M8, M10, and blind rivet screws M5, M6, M8
- Quick-change system

Article No.	Article Description	QTY
2748 4	LEV.RIV.NUT PL.SET MFX 510 QI	1

Contents:

- 1x Blind rivet nut pliers MFX 510 QI
- 1x Art. No. 2748 4 5 Mandrel M5
- 1x Art. No. 2748 4 6 Mandrel M6
- 1x Art. No. 2748 4 8 Mandrel M8
- 1x Art. No. 2748 4 10 Mandrel M10
- 1x Art. No. 2748 4 5 1 Threaded sleeve M5
- 1x Art. No. 2748 4 6 1 Threaded sleeve M6
- 1x Art. No. 2748 4 8 1 Threaded sleeve M8



Lever-Rivet Nut Pliers Set MFX 510 QI Accessories



Article No.	Article Description	QTY
2748 4 5	MANDR.M5 F.LEV.PL.MFX 510 QI	1
2748 4 6	MANDR.M6 F.LEV.PL.MFX 510 QI	1
2748 4 8	MANDR.M8 F.LEV.PL.MFX 510 QI	1
2748 4 10	MANDR.M10 F.LEV.PL.MFX 510 QI	1
2748 4 5 1	THREAD.SLEEVE M5 F.MFX 510 QI	1
2748 4 6 1	THREAD.SLEEVE M6 F.MFX 510 QI	1
2748 4 8 1	THREAD.SLEEVE M8 F.MFX 510 QI	1

Blind Rivet Nuts, Flat Head, Aluminium AIMg 2.5

- For heavy duty bolted connections in thin walled materials and components accessible on one side only, e.g. hollow channels, tanks, etc.
- Combination application possibilities e.g. riveting 2 sheets and attaching additional component with bolt



Article No.	Dimension	QTY
2740 3 25	M 3-2,5	f 100
2740 3 35	M 3-3,5	f 100
2740 4 45	M 4-4,5	gf 100
2740 5 55	M 5-5,5	gf 100
2740 5 8	M 5-8	gf 100
2740 6 55	M 6-5,5	gf 100
2740 6 8	M 6-8	gf 100
2740 8 55	M 8-5,5	gf 100
2740 8 8	M 8-8	g 50
2740 8 105	M 8-10,5	g 50
2740 10 9	M 10-9	g 50
2740 10 12	M 10-12	g 50
2740 12 4	M 12-4	g 50
2740 12 7	M 12-7	g 50
2740 12 10	M 12-10	g 50
2740 4 3	M 4-3	gf 100
2740 10 6	M 10-6	gf 100
2740 5 3	M 5-3	gf 100
2740 6 3	M 6-3	gf 100
2740 8 3	M 8-3	gf 100
2740 10 3	M 10-3	gf 100

(Thread mm / clamping range up to mm)

Technical Data

Clamp. range mm	Drill-Ø mm	d mm	D mm	L mm	K mm
0,5 - 2,5	5,0	4,9	7,0	10,5	0,9
2,5 - 3,5	5,0	4,9	7,0	11,5	0,9
0,5 - 3,0	6,0	5,9	9,0	11,0	1,1
3,0 - 4,5	6,0	5,9	9,0	14,0	1,1
0,5 - 3,0	7,0	6,9	10,0	13,0	1,1
3,0 - 5,5	7,0	6,9	10,0	16,0	1,1
5,5 - 8,0	7,0	6,9	10,0	19,0	1,1
0,5 - 3,0	9,0	8,9	12,0	16,0	1,6
3,0 - 5,5	9,0	8,9	12,0	18,5	1,6
5,5 - 8,0	9,0	8,9	12,0	21,0	1,6
0,5 - 3,0	11,0	10,9	15,0	17,5	1,6
3,0 - 5,5	11,0	10,9	15,0	20,0	1,6
5,5 - 8,0	11,0	10,9	15,0	22,5	1,6
8,0 - 10,5	11,0	10,9	15,0	25,0	1,6
0,5 - 3,0	12,0	11,9	16,0	19,0	2,1
3,0 - 6,0	12,0	11,9	16,0	24,0	2,1
6,0 - 9,0	12,0	11,9	16,0	27,0	2,1
9,0 - 12,0	12,0	11,9	16,0	30,0	2,1
1,0 - 4,0	16,0	15,9	22,0	25,0	2,1
4,0 - 7,0	16,0	15,9	22,0	28,0	2,1
7,0 - 10,0	16,0	15,9	22,0	31,0	2,1



Blind Rivet Nuts Flat Head, Galvanized Steel

- For heavy duty screw connections in thin-walled materials and components that are accessible from only one side, e.g. hollow profiles, containers etc.
- Combined application possibilities e.g. direct riveting of 2 sheets and attachment of an additional component via screwing



Article No.	Dimension	QTY
2742 3 25	M 3-2,5	f 100
2742 3 4	M 3-4	f 100
2742 4 3	M 4-3	gf 100
2742 4 55	M 4-5,5	gf 100
2742 5 3	M 5-3	gf 100
2742 5 55	M 5-5,5	gf 100
2742 5 8	M 5-8	gf 100
2742 6 3	M 6-3	gf 100
2742 6 55	M 6-5,5	gf 100
2742 6 8	M 6-8	gf 100
2742 8 3	M 8-3	gf 100
2742 8 55	M 8-5,5	gf 100
2742 8 8	M 8-8	g 50
2742 8 105	M 8-10,5	g 50
2742 10 3	M 10-3	gf 100
2742 10 6	M 10-6	gf 100
2742 10 9	M 10-9	g 50
2742 10 12	M 10-12	g 50
2742 12 4	M 12-4	g 50
2742 12 7	M 12-7	g 50
2742 12 10	M 12-10	g 50

(Thread mm / clamping range up to mm)

Technical Data

Clamp. range mm	Drill-Ø mm	d mm	D mm	L mm	K mm
0,5 - 2,5	5,0	4,9	7,0	10,5	0,9
2,5 - 4,0	5,0	4,9	7,0	11,5	0,9
0,5 - 3,0	6,0	5,9	9,0	11,0	1,1
3,0 - 5,5	6,0	5,9	9,0	14,0	1,1
0,5 - 3,0	7,0	6,9	10,0	13,0	1,1
3,0 - 5,5	7,0	6,9	10,0	16,0	1,1
5,5 - 8,0	7,0	6,9	10,0	19,0	1,1
0,5 - 3,0	9,0	8,9	12,0	16,0	1,6
3,0 - 5,5	9,0	8,9	12,0	18,5	1,6
5,5 - 8,0	9,0	8,9	12,0	21,0	1,6
0,5 - 3,0	11,0	10,9	15,0	17,5	1,6
3,0 - 5,5	11,0	10,9	15,0	20,0	1,6
5,5 - 8,0	11,0	10,9	15,0	22,5	1,6
8,0 - 10,5	11,0	10,9	15,0	25,0	1,6
0,5 - 3,0	12,0	11,9	16,0	19,0	2,1
3,0 - 6,0	12,0	11,9	16,0	24,0	2,1
6,0 - 9,0	12,0	11,9	16,0	27,0	2,1
9,0 - 12,0	12,0	11,9	16,0	30,0	2,1
1,0 - 4,0	16,0	15,9	22,0	25,0	2,1
4,0 - 7,0	16,0	15,9	22,0	28,0	2,1
7,0 - 10,0	16,0	15,9	22,0	31,0	2,1



Blind Rivet Nuts, Countersunk Head, 90° Aluminium

- For flush connections



Article No.	Dimension	QTY
2741 4 25	M 4-2,5	gf 100
2741 4 4	M 4-4	gf 100
2741 5 35	M 5-3,5	gf 100
2741 5 45	M 5-4,5	gf 100
2741 6 3	M 6-3	gf 100
2741 6 45	M 6-4,5	gf 100
2741 8 3	M 8-3	gf 100
2741 8 45	M 8-4,5	gf 100
2741 10 3	M 10-3	gf 100

(Thread dia. x length mm)

Specifications

Clamping range mm	Drill dia. mm	d mm	D mm	L mm	K mm
1.5 - 2.5	6.1	6.0	7.0	11.5	0.5
2.5 - 3.5	6.1	6.0	7.0	12.5	0.5
0.5 - 1.5	7.1	7.0	8.0	11.0	0.5
1.5 - 2.5	7.1	7.0	8.0	12.0	0.5
1.0 - 2.5	7.1	7.0	8.0	13.0	0.5
2.5 - 3.5	9.1	9.0	10.0	14.0	0.5
1.0 - 2.5	9.1	9.0	10.0	15.5	0.5
2.5 - 4.0	11.1	11.0	12.0	15.5	0.5
2.5 - 4.0	11.1	11.0	12.0	17.0	0.5



Blind Rivet Nuts Flat Head

- Galvanized steel
- With hex shank in clamping zone to prevent twisting



Article No.	Dimension	QTY
2743 4	M 4	gf 100
2743 5	M 5	gf 100
2743 6	M 6	gf 100
2743 8	M 8	gf 100

(Thread dia.)

Specifications

Clamping range mm	Hole SW 1	SW	D mm	L mm	K mm
0.5 - 3.0	6.1	6.0	9.3	11.5	1.0
0.5 - 3.0	7.1	7.0	10.3	13.5	1.0
0.5 - 3.0	9.1	9.0	12.3	15.5	1.5
0.5 - 3.0	11.1	11.0	14.3	17.5	1.5



Blind Rivet Nuts Miniature Countersunk Head

- Galvanized steel
- For flush connections without countersinking holes

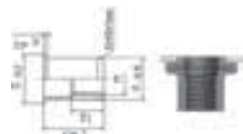


Article No.	Dimension	QTY
2744 4	M 4	gf 100
2744 5	M 5	gf 100
2744 6	M 6	gf 100
2744 8	M 8	gf 100
2744 10	M 10	gf 100

(Thread dia.)

Specifications

Rivetable material thickness mm	Drill dia. mm	Shank dia. mm	L mm
0.5 - 3.0	7.0	6.95	10.5
0.5 - 3.0	7.0	6.95	11.5
0.5 - 2.5	8.0	7.95	13.0
0.5 - 3.0	10.0	9.95	15.5
0.5 - 3.0	12.0	11.95	17.5



Blind Rivet Nuts, Small Countersunk Head, Knurled

- Galvanized steel
- For high resistance to twisting in soft materials e.g. plastic, aluminium, wool, asbestos etc.



Article No.	Dimension	QTY
2745 4	M 4	gf 100
2745 5	M 5	gf 100
2745 6	M 6	gf 100
2745 8	M 8	gf 100
2745 10	M 10	gf 100

(Thread dia.)

Specifications

Rivetable material thickness mm	Drill dia. mm	Shank dia. mm	L mm
0.5 - 3.0	6.0	5.9	10.0
0.5 - 3.0	7.0	6.9	11.5
0.5 - 3.0	9.0	8.9	14.0
0.5 - 3.0	11.0	10.9	15.5
0.8 - 3.5	12.0	11.9	22.0



TORRO Hose Clamps

- Housing not welded or riveted
- Does not twist away when tightening
- Short housing saddle guarantees optimum lock and uniform clamping pressure around entire circumference
- Hex head with combination slots for slotted or Phillips screwdrivers
- Strap with raised edges to prevent damage to hose wall



TORRO W2 Hose Clamps



Specifications		
Abbreviation	Material	Strap width
W2	Stainless steel strap and housing (1.4016), galvanized steel screw	7.5 / 9 mm

Article No.	Article Description	QTY
3200 8 12	HOSE CL TOR 7,5MM SW6 W2 8-12	f 100
3200 8 16	HOSE CL TOR 9MM SW7 W2 8-16	f 100
3200 10 16	HOSE CL TOR 7,5MM SW6 W2 10-16	f 100
3200 12 20	HOSE CL TOR 9MM SW7 W2 12-20	f 100
3200 16 25	HOSE CL TOR 9MM SW7 W2 16-25	f 100
3200 20 32	HOSE CL TOR 9MM SW7 W2 20-32	f 100
3200 23 35	HOSE CL TOR 9MM SW7 W2 23-35	f 100
3200 25 40	HOSE CL TOR 9MM SW7 W2 25-40	f 100
3200 32 50	HOSE CL TOR 9MM SW7 W2 32-50	g 50
3200 40 60	HOSE CL TOR 9MM SW7 W2 40-60	g 50
3200 50 70	HOSE CL TOR 9MM SW7 W2 50-70	25
3200 60 80	HOSE CL TOR 9MM SW7 W2 60-80	25
3200 70 90	HOSE CL TOR 9MM SW7 W2 70-90	25
3200 80 100	HOSE CL TOR 9MM SW7 W2 80-100	25
3200 90 110	HOSE CL TOR 9MM SW7 W2 90-110	25

(Strp width / screw head / material / clamping range)

TORRO W1 Hose Clamp



Specifications		
Abbreviation	Material	Strap width
W1	All galvanized steel	12 mm

Article No.	Article Description	QTY
3201 16 25	HOSE CL TOR 12MM SW7 W1 16- 27	50
3201 20 32	HOSE CL TOR 12MM SW7 W1 20- 32	50
3201 25 40	HOSE CL TOR 12MM SW7 W1 25- 40	g 50
3201 32 50	HOSE CL TOR 12MM SW7 W1 35- 50	50
3201 40 60	HOSE CL TOR 12MM SW7 W1 40- 60	25
3201 50 70	HOSE CL TOR 12MM SW7 W1 50- 70	25
3201 60 80	HOSE CL TOR 12MM SW7 W1 60- 80	25
3201 70 90	HOSE CL TOR 12MM SW7 W1 70- 90	25
3201 80 100	HOSE CL TOR 12MM SW7 W1 80-100	25
3201 90 110	HOSE CL TOR 12MM SW7 W1 90-110	25
3201 100 120	HOSE CL TOR 12MM SW7 W1 100-12	25
3201 110 130	HOSE CL TOR 12MM SW7 W1 110-13	25
3201 120 140	HOSE CL TOR 12MM SW7 W1 120-14	25
3201 130 150	HOSE CL TOR 12MM SW7 W1 130-15	25
3201 140 160	HOSE CL TOR 12MM SW7 W1 140-16	25
3201 150 170	HOSE CL TOR 12MM SW7 W1 150-17	10
3201 160 180	HOSE CL TOR 12MM SW7 W1 160-18	10
3201 170 190	HOSE CL TOR 12MM SW7 W1 170-19	10
3201 180 200	HOSE CL TOR 12MM SW7 W1 180-20	10
3201 190 210	HOSE CL TOR 12MM SW7 W1 190-210	10

(Strap width/ SW / material / clamping range)

TORRO W4 Hose Clamps



Specifications			
Abbreviation	Material	Strap width	Intern. stand.
W4	All stainless steel 1.4301	9 mm	AFNOR Z6 CN 18-09 AISI AS 304 B, S, 304 S 15 SS 2332 SUS 304

Article No.	Article Description	QTY
3203 8 16	HOSE CL TOR 9MM SW7 W4 8-16	g 100
3203 12 20	HOSE CL TOR 9MM SW7 W4 12-20	g 100
3203 16 25	HOSE CL TOR 9MM SW7 W4 16-25	g 100
3203 20 32	HOSE CL TOR 9MM SW7 W4 20-32	g 100
3203 25 40	HOSE CL TOR 9MM SW7 W4 25-40	g 100
3203 32 50	HOSE CL TOR 9MM SW7 W4 32-50	g 50
3203 40 60	HOSE CL TOR 9MM SW7 W4 40-60	g 50

(Strap width/ screw head / material / clamping range)

Recommended static tightening torque			
Clamping range	TORRO W2	TORRO W4	TORROW1 + W4
-	7.5 / 9 mm	9 mm	12 mm
8 - 12	1.5 Nm	1.5 Nm	-
8 - 16	2.0 Nm	2.0 Nm	-
from 12 - 22	3.0 Nm	3.0 Nm	-
from 16 - 27	-	-	5.0 Nm

TORRO W4 Hose Clamp



Specifications			
Abbreviation	Material	Strap width	Intern. stand.
W4	All stainless steel 1.4301	12 mm	AFNOR Z6 CN 18-09 AISI AS 304 B, S, 304 S 15 SS 2332 SUS 304

Article No.	Article Description	QTY
3204 16 25	HOSE CL TOR 12MM SW7 W4 16- 27	g 50
3204 20 32	HOSE CL TOR 12MM SW7 W4 20- 32	g 50
3204 25 40	HOSE CL TOR 12MM SW7 W4 25- 40	g 50
3204 32 50	HOSE CL TOR 12MM SW7 W4 32- 50	g 50
3204 40 60	HOSE CL TOR 12MM SW7 W4 40- 60	25
3204 50 70	HOSE CL TOR 12MM SW7 W4 50- 70	z 25
3204 60 80	HOSE CL TOR 12MM SW7 W4 60- 80	25
3204 70 90	HOSE CL TOR 12MM SW7 W4 70- 90	25
3204 80 100	HOSE CL TOR 12MM SW7 W4 80-100	10
3204 90 110	HOSE CL TOR 12MM SW7 W4 90-110	10
3204 100 120	HOSE CL TOR 12MM SW7 W4 100-12	10
3204 110 130	HOSE CL TOR 12MM SW7 W4 110-13	10
3204 120 140	HOSE CL TOR 12MM SW7 W4 120-14	10
3204 130 150	HOSE CL TOR 12MM SW7 W4 130-15	10

(Strap width/ screw head / material / clamping range)

TORRO Hose Clamp Set

- With 450 hose clamps B 9 mm, W2
- Robust workshop container with carrying handle, tool tray and 12 slide-in boxes
- Dimensions W 360 x H 450 x D 170 mm

Article No.	Article Description	QTY
3290 450	TORRO-HOSE CLAMPS SET	1

Contents:

- 155x Clamping range 8 - 16 mm
- 60x Clamping range 12 - 22 mm
- 100x Clamping range 16 - 27
- 50x Clamping range 20 - 32
- 50x Clamping range 25 - 40 mm
- 15x Clamping range 35 - 50 mm
- 20x Clamping range 50 70 mm

Torro Hose Clamp Set

- Provides optimum view of stock
- Hose clamps arranged clearly, saving space and allowing optimum access at a glance

Article No.	Article Description	QTY
3290 10	HOSE CLAMP WALL SET (117 PCS)	1

Content:

Article No.	Article Description	Quantity
3200 8 12	HOSE CL TOR 7,5MM SW6 W2 8-12	20
3200 10 16	HOSE CL TOR 7,5MM SW6 W2 10-16	20
3200 12 20	HOSE CL TOR 9MM SW7 W2 12-22	20
3200 16 25	HOSE CL TOR 9MM SW7 W2 16-25	10
3200 20 32	HOSE CL TOR 9MM SW7 W2 20-32	10
3200 25 40	HOSE CL TOR 9MM SW7 W2 25-40	10
3200 32 50	HOSE CL TOR 9MM SW7 W2 32-50	10
3200 40 60	HOSE CL TOR 9MM SW7 W2 40-60	10
3200 50 70	HOSE CL TOR 9MM SW7 W2 50-70	5
3290 100	HOSE CLAMP HOLDER - EMPTY	1
3295 7	A HEX SPEED WRENCH FLEX W. 7	1

Hex Speed Wrench Flexible

- With flexible shaft
- Blade length 160 mm

Article No.	Article Description	QTY
3295 6	A HEX SPEED WRENCH FLEX SW 6	1
3295 7	A HEX SPEED WRENCH FLEX W. 7	1
3295 8	A HEX SPEED WRENCH FLEX SW 8	1

Hose Clamps SGL W2

Strap:

- Width 8 mm
- Punched thread for optimum curve

Strap and housing:

- Stainless steel 1.4016. AISI430

Screw:

- Galvanized steel, yellow chromated

Article No.	Article Description	QTY
3202 8 12	CLAMP SGL 8MM SW6 W2 8-12	100
3202 10 16	CLAMP SGL 8MM SW6 W2 10-16	100

(Strap width/ screw head / material / clamping range in mm)

Miniflex W2

Strap:

- Width 5 mm
- Stamped, smooth inside
- Stainless steel

Housing and screw:

- Galvanized steel
- Delivered in open state

Article No.	Article Description	QTY
3210 7 11	MINIFLEX HOSE CLIP SX5 7-11MM	f 100
3210 11 19	MINIFLEX HOSE CLIP SX5 11-19M	f 100

(Strap width/ screw head / clamping range in mm)

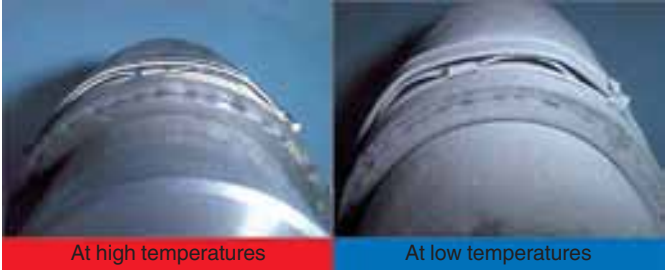


TORRO Hose Clamps with Wave Spring

- Integrated spring
- Compensates for variations in diameter
- Also suitable for thermoplastic pipes
- Wave spring in W4



Article No.	Article Description	QTY
3205 30 45	HOSE CL.TORRO 12MMSW7 W3 30-45	50
3205 35 50	HOSE CL.TORRO 12MMSW7 W3 35-50	50
3205 50 70	HOSE CL.TORRO 12MMSW7 W3 50-70	25
3205 60 80	HOSE CL.TORRO 12MMSW7 W3 60-80	25
3205 70 90	HOSE CL.TORRO 12MMSW7 W3 70-90	25
3205 80 100	HOSE CL.TORRO12MMSW7 W3 80-100	25
3205 90 110	HOSE CL.TORRO12MMSW7 W3 90-110	20



- At high temperatures
- Diameter of hose increades
 - Spring is compressed
- At low temperatures
- Diameter of hoses decreases
 - Spring extends
 - Clamping force is maintained
 - Clamp seals perfectly

Norma Hose Clamps

- Hose clamps with clamping jaws according to DIN 3017
- Norma hose clamps are suitable for fastening rubber and plastic hoses or rubber sleeves on pipe ends or hose fittings
- Steel strap, galvanized

Strap width 7 mm: slotted cheese head screw, M 3 x 16

Strap width 9 mm: slotted cheese head screw, M4 x 22

Strap width 12 mm: slotted hex head screw, M5 x 25

Strap width 15 mm: slotted hex head screw, M 6 x 30

Article No.	Article Description	QTY
3211 7	NORMA CLAMP B 7MM D 7MM	gf 100
3211 8	NORMA CLAMP B 7MM D 8MM	gf 100
3212 9	NORMA CLAMP B 9MM D 9MM	gf 100
3212 10	NORMA CLAMP B 9MM D 10MM	gf 100
3212 11	NORMA CLAMP B 9MM D 11MM	gf 100
3212 12	NORMA CLAMP B 9MM D 12MM	gf 100
3212 13	NORMA CLAMP B 9MM D 13MM	gf 100
3212 14	NORMA CLAMP B 9MM D 14MM	gf 100
3212 15	NORMA CLAMP B 9MM D 15MM	gf 100
3212 16	NORMA CLAMP B 9MM D 16MM	gf 100
3212 17	NORMA CLAMP B 9MM D 17MM	gf 100
3212 18	NORMA CLAMP B 9MM D 18MM	gf 100
3212 19	NORMA CLAMP B 9MM D 19MM	gf 100

(Strap width/ clamping range)

Hose Clamps, Assortment

- Contents: 145 pieces

Article No.	Article Description	QTY
9000 32	ASSORTMENT HOSE CLAMPS	1
9000R 32	TRAY HOSE CLAMPS	1

Pivot Shaft Hose Clamps

- Pivot shaft hose clamps acc. to DIN 3017
- Pivot shaft hose clamps are particularly suited for fastening vacuum and pressure hoses with particularly high Shore harness or with plastic or steel linings and are distinguished by their extremely high strap tension forces.
- All parts galvanized steel

Article No.	Article Description	QTY
3219 43 47	PIV.SHAFT HOSE CL.B20MM 43 47	25
3219 47 51	PIV.SHAFT HOSE CL.B20MM 47 51	50
3219 51 55	PIV.SHAFT HOSE CL.B20MM 51 55	50
3219 55 59	PIV.SHAFT HOSE CL.B20MM 55 59	50
3219 59 63	PIV.SHAFT HOSE CL.B20MM 59 63	50
3219 63 68	HEAVY DUTY CLAMPS B20MM 63 68	50

Pebra Hose Clamps

- Worm drive hose clamps according to DIN 3017, heavy duty version
- Strap, saddle and housing made of stainless steel 1.4310
- Worm made of tempered steel, galvanized
- Strap width 14.3 mm
- Hex head screw, 8 mm with slot

Part No. 3221 11 20 to 3221 20 32

- Aero series without quick-clamp fastener

Part No. 3221 25 40 to 3221 160 180

- Aero series with quick-clamp fastener

Article No.	Article Description	QTY
3221 11 20	PEBRA HOSE CL.AERO SW8 12-22	f 100
3221 16 25	PEBRA HOSE CL.AERO SW8 16-27	50
3221 20 32	PEBRA HOSE CL.AERO SW8 20-32	60
3221 25 40	PEBRA HOSE CL.AERO SW8 25-40	50
3221 32 50	PEBRA HOSE CL.AERO SW8 35-50	50
3221 40 60	PEBRA HOSE CL.AERO SW8 40-60	50
3221 50 70	PEBRA HOSE CL.AERO SW8 50-70	60
3221 60 80	PEBRA HOSE CL.AERO SW8 60-80	50
3221 70 90	PEBRA HOSE CL.AERO SW8 70-90	40

(Head size / clamping range in mm)



Article No.	Article Description	QTY
3212 20	NORMA CLAMP B 9MM D 20MM	gf 100
3212 22	NORMA CLAMP B 9MM D 22MM	gf 100
3212 25	NORMA CLAMP B 9MM D 25MM	gf 100
3212 32	NORMA CLAMP B 9MM D 32MM	gf 100
3213 12	NORMA CLAMP B12MM D 12MM	gf 100
3213 16	NORMA CLAMP B12MM D 16MM	gf 100
3213 18	NORMA CLAMP B12MM D 18MM	gf 100
3213 19	NORMA CLAMP B12MM D 19MM	gf 100
3214 20	NORMA CLAMP B15MM D 20MM	gf 100
3214 22	NORMA CLAMP B15MM D 22MM	gf 100
3214 25	NORMA CLAMP B15MM D 25MM	gf 100



Article No.	Article Description	QTY
3219 68 73	PIV.SHAFT HOSE CL.B25MM 68 73	25
3219 73 79	PIV.SHAFT HOSE CL.B25MM 73 79	25
3219 79 85	PIV.SHAFT HOSE CL.B25MM 79 85	25
3219 85 91	PIV.SHAFT HOSE CL.B25MM 85 91	25
3219 91 97	PIV.SHAFT HOSE CL.B25MM 91 97	25
3219 97 104	PIV.SHAFT HOSE CL.B25MM 97 104	25
3219 104 112	PIV.SHAFT HOSE CL.B25MM104 112	25
3219 112 121	PIV.SHAFT HOSE CL.B25MM112 121	25



Article No.	Article Description	QTY
3221 80 100	PEBRA HOSE CL.AERO SW8 80-100	30
3221 90 110	PEBRA HOSE CL.AERO SW8 90-110	30
3221 100 120	PEBRA HOSE CL.AERO SW8 100-120	25
3221 110 130	PEBRA HOSE CL.AERO SW8 110-130	25
3221 120 140	PEBRA HOSE CL.AERO SW8 120-140	25
3221 130 150	PEBRA HOSE CL.AERO SW8 130-150	25
3221 140 160	PEBRA HOSE CL.AERO SW8 140-160	25
3221 150 170	PEBRA HOSE CL.AERO SW8 150-170	25
3221 160 180	PEBRA HOSE CL.AERO SW8 160-180	25

Endless Clamping Strap - Stainless Steel 8 mm

- Any clamp size from 16 mm available
- Materials:**
- Endless strap and housing made of rust-free steel
 - Screw made of galvanized steel

Article No.	Article Description	QTY
3240 8	RO(5M)END.STR.STAINL.STEEL 8MM	1
3241 8	C(25)TURNBUCKLE FOR.ENDL.STRAP	1



Endless Clamping Strap - Stainless Steel 9 mm

- Perfect alternative for conventional hose clamps
- The 30 m long stainless steel strap is flexible and can be used for various hose diameters
- The turnbuckles with its worm drive thread guarantees sealed and resistant hose-nozzle-connection
- Space and time saving solution

Art. No. 8626 1:

- Stainless steel AISI 430/W3

- Sizes:**
- Length: 30 m
 - Width: 9 mm
 - Thickness: 0.6 mm

Art. No. 8626 2:

- Low carbon steel, nickel-faced
- Lock: stainless steel AISI 430/W3
- Screw: 7 mm cross recessed, galvanised steel

Art. No. 8626 3:

- Stainless steel AISI 304/W4
- Screw: 7 mm cross recessed, stainless steel AISI 304/W4

Article No.	Article Description	QTY
8626 1	RO(30M)ENDLESS STRAP A2 9MM	1
8626 2	TURNBUCKLE GA FOR ENDL.STRAP	25
8626 3	TURNBUCKLE A2 FOR ENDL.STRAP	25



Assembly instructions:



Endless Clamping Strap

- Suitable for fixing and repair works under difficult conditions e.g. mountings, sealing of pipes, fixation of signs and reservoirs as well as for tying in hoses
- Re-usable
- Galvanised

Article No.	Article Description	QTY
3240 5	RO(50M)HOSE STRAP 5MM	1
3240 9	RO(50M)HOSE STRAP 9MM	1



Locks for Endless Clamping Straps

- Galvanised

Article No.	Article Description	QTY
3241 5	HOSE STRAP LOCKS 5MM	50
3241 9	HOSE STRAP LOCKS 9MM	50

Cobra Hose Clamps

- Hose clamp without screw, produced from one piece
- Chrome-nickel Stainless steel
- Low overall height permits installation in tight spaces
- Delivery state: Open
- Installation: Simply slide over hose and press together with installation pliers, Part No. 3226 1
- Integrated bead prevents clamping strap from sliding
- Cobra hose clamps can be opened with a screwdriver without damaging the clamp

Specifications		
Size	Clamping range mm	Colour
7.5	8.0 - 9.0	white
8	8.5 - 9.5	yellow
8.5	9.0 - 10.0	green
9	9.5 - 10.5	violet
9,5	10.0 - 11.0	black
10	10.5 - 11.5	white
11	11.5 - 12.5	green
12	12.5 - 14.0	black
13	13.5 - 15.0	yellow
14	14.5 - 16.0	violet
16	16.5 - 18.0	green
17	17.5 - 19.0	black

Article No.	Article Description	QTY
3226 75	HOSE CLAMP COBRA B7MM D 7,5MM	gf 100
3226 8	HOSE CLAMP COBRA B7MM D 8MM	gf 100
3226 85	HOSE CLAMP COBRA B7MM D 8,5MM	gf 100
3226 9	HOSE CLAMP COBRA B7MM D 9MM	gf 100
3226 95	HOSE CLAMP COBRA B7MM D 9,5MM	gf 100
3226 10	HOSE CLAMP COBRA B7MM D 10MM	gf 100
3226 11	HOSE CLAMP COBRA B7MM D 11MM	gf 100
3226 12	HOSE CLAMP COBRA B8MM D 12MM	gf 100
3226 13	HOSE CLAMP COBRA B8MM D 13MM	gf 100
3226 14	HOSE CLAMP COBRA B8MM D 14MM	gf 100
3226 16	HOSE CLAMP COBRA B8MM D 16MM	gf 100
3226 17	HOSE CLAMP COBRA B8MM D 17MM	gf 100

(B=strap width)

Cobra Hose Clamp Pliers

- For the reliably closing Cobra hose clamps
- For the reliably closing and opening Clic hose clamps

Article No.	Article Description	QTY
3226 1	COBRA HOSE CLAMP PLIERS	1

Cobra-Hose Clamps

- Contents: 195 pieces
- Size 7,5 - 16 mm chucking range
- 1x Cobra-hose clamp pliers

Article No.	Article Description	QTY
9000 3226	ASS.COBRA HOSE CLAMPS	1
9000R 3226	TRAY HOSE CLAMPS CLIC	1

Content:

Article No.	Article Description	Quantity
3226 1	COBRA HOSE CLAMP PLIERS	1
3226 75	HOSE CLAMP COBRA B7MM D 7,5MM	20
3226 85	HOSE CLAMP COBRA B7MM D 8,5MM	20
3226 9	HOSE CLAMP COBRA B7MM D 9MM	20
3226 95	HOSE CLAMP COBRA B7MM D 9,5MM	20
3226 10	HOSE CLAMP COBRA B7MM D 10MM	20
3226 11	HOSE CLAMP COBRA B7MM D 11MM	20
3226 12	HOSE CLAMP COBRA B8MM D 12MM	20
3226 13	HOSE CLAMP COBRA B8MM D 13MM	20
3226 14	HOSE CLAMP COBRA B8MM D 14MM	20
3226 16	HOSE CLAMP COBRA B8MM D 16MM	15



Close with pliers



Open with screwdriver



Perforated Clips

- Ideal for fastening rubber boots and hoses on vehicles
- Clamps made of Galfan (aluminium zinc)
- These perforated clips allow boots to be attached to drive shafts without imbalance as with conventional clamps with clamp lock

Article No.	Article Description	QTY
3236 7 31	PERFORATED CLIP 7/25-31MM	25
3236 7 35	PERFORATED CLIP 7/29-35MM	25
3236 7 37	PERFORATED CLIP 7/31-37MM	25
3236 7 44	PERFORATED CLIP 7/36-44MM	25
3236 9 78	PERFORATED CLIP 9/70-78MM	25
3236 9 88	PERFORATED CLIP 9/80-88MM	25
3236 9 97	PERFORATED CLIP 9/90-97MM	25

(Strap width/ clamping range in mm)



Rubber Boot Clamp Set

- For wall attachment

Article No.	Article Description	QTY
3236 10	PERF.CLAMPS HOLDER COUP.ASSEM.	1

Content:

Article No.	Article Description	Quantity
3102 4000	CLAMP.PLIERS F.PERFORATED CLIP	1
3236 7 31	PERFORATED CLIP 7/25-31MM	10
3236 7 35	PERFORATED CLIP 7/29-35MM	20
3236 7 37	PERFORATED CLIP 7/31-37MM	20
3236 7 44	PERFORATED CLIP 7/36-44MM	10
3236 9 78	PERFORATED CLIP 9/70-78MM	10
3236 9 88	PERFORATED CLIP 9/80-88MM	20
3236 9 97	PERFORATED CLIP 9/90-97MM	10
3300 100	RUB.BOOT CL.HOLD.W.HOOK EMPTY	1



Perforated Clips A2

Article No.	Article Description	QTY
3236 25 50	PERFORATED CLIP A2 7/25-50MM	z 30
3236 40 110	PERFORATED CLIP A2 7/40-110MM	z 30

(Strap width/ clamping range in mm)



Assortment, Perforated Clips A2

- Perforated clips A2 in assortment box

Article No.	Article Description	QTY
9000 25	ASS.PERFORATED CLIPS A2	1
9000R 25	TRAY PERFORATED CLIPS A2	1

Content:

Article No.	Article Description	Quantity
3102 4000	CLAMP.PLIERS F.PERFORATED CLIP	1
3236 25 50	PERFORATED CLIP A2 7/25-50MM	30
3236 40 110	PERFORATED CLIP A2 7/40-110MM	30



Clamping Pliers for Perforated Clip

- The guided pressure element ensures clean pressing operation on perforated clips

Article No.	Article Description	QTY
3102 4000	CLAMP.PLIERS F.PERFORATED CLIP	1



Oetiker Hose Clamps

- Stainless steel, rust-free
- 1-ear version with ring
- For efficient, sealed hose fittings
- Ring ensures protective and absolutely safe application



Article No.	Article Description	QTY
3222 41	ÖTIKER ZERO CLAMP 2,9- 3,7 TYP	g 50
3222 51	ÖTIKER ZERO CLAMP 3,7- 4,7 W4	g 50
3222 66	ÖTIKER ZERO CLAMP 5,2- 6,2 W4	g 50
3222 75	ÖTIKER ZERO CLAMP 5,9- 7,0 W4	g 50
3222 87	ÖTIKER ZERO CLAMP 7,0- 8,2 W4	g 50
3222 95	ÖTIKER ZERO CLAMP 7,5- 9,0 W4	g 50
3222 100	ÖTIKER ZERO CLAMP 8,0- 9,5 W4	g 50
3222 105	ÖTIKER ZERO CLAMP 8,5-10,0 W4	g 50
3222 113	ÖTIKER ZERO CLAMP 9,1-10,8 W4	g 50
3222 118	ÖTIKER ZERO CLAMP 9,6-11,3 W4	g 50
3222 123	ÖTIKER ZERO CLAMP 9,8-11,8 W4	g 50
3222 133	ÖTIKER ZERO CLAMP 10,6-12,6 W4	g 50
3222 138	ÖTIKER ZERO CLAMP 11,1-13,1 W4	g 50
3222 145	ÖTIKER ZERO CLAMP 11,8-13,8 W4	g 50
3222 155	ÖTIKER ZERO CLAMP 12,8-14,8 W4	g 50
3222 160	ÖTIKER ZERO CLAMP 13,1-15,3 W4	g 50
3222 168	ÖTIKER ZERO CLAMP 13,9-16,1 W4	g 50
3222 175	ÖTIKER ZERO CLAMP 14,6-16,8 W4	g 50
3222 185	ÖTIKER ZERO CLAMP 15,6-17,8 W4	g 50
3222 195	ÖTIKER ZERO CLAMP 16,5-18,8 W4	g 50
3222 200	ÖTIKER ZERO CLAMP 17,1-19,3 W4	g 50
3222 207	ÖTIKER ZERO CLAMP 17,1-20,0 W4	g 50
3222 218	ÖTIKER ZERO CLAMP 18,8-21,1 W4	g 50
3222 225	ÖTIKER ZERO CLAMP 19,2-21,8 W4	g 50
3222 235	ÖTIKER ZERO CLAMP 20,2-22,8 W4	g 50
3222 245	ÖTIKER ZERO CLAMP 21,0-23,8 W4	g 50
3222 255	ÖTIKER ZERO CLAMP 22,0-24,8 W4	g 50
3222 270	ÖTIKER ZERO CLAMP 23,3-26,3 W4	g 50
3222 307	ÖTIKER ZERO CLAMP 26,5-30,0 W4	g 50

(Clamping range/ type)

Oetiker Hose Clamps in Assortment

- Contents: 190 hose clamps of type 95 - 185
- 1x Art. No. 4681 200 mechanic's nippers, length 200 mm

Article No.	Article Description	QTY
9000 3222	ASS.OETIKER-HOSE CLAMPS	1
9000R 3222	TRAY OETIKER-HOSE CLAMPS	1



Oetiker Hose Clamp Pliers

- For 1-ear and 2-ear clamps
- With front and side cutting edge for use in limited spaces

Article No.	Article Description	QTY
3222 1	HOSE CLAMP PLIERS OETIKER	1 s



Hose Clamps 1-Ear, Stepless

- Stainless steel, rust-free according to DIN 1.4301 or UNS S30400
- 360° stepless design, no steps at inner circumference or overlappings
- Narrow band, concentrated clamping force transmission
- Band width: 7 mm
- Band thickness: 0.6 mm

Article No.	Article Description	QTY
3225 128	EAR-CLAMP STEPLESS 10.3-12.8	g 50
3225 148	EAR-CLAMP STEPLESS 12.3-14.8	g 50
3225 168	EAR-CLAMP STEPLESS 14.3-16.8	g 50
3225 198	EAR-CLAMP STEPLESS 16.6-19.8	g 50
3225 256	EAR-CLAMP STEPLESS 22.4-25.6	g 50



Oetiker Hose Clamps, 2-Ear

- Galvanised steel
- For fluid and air ducts

Article No.	Article Description	QTY
3224 5 7	2-EAR CLAMP 5.0-7.0MM GA	g 50
3224 7 9	2-EAR CLAMP 7.0-9.0MM GA	g 50
3224 9 11	2-EAR CLAMP 8.8-11.0MM GA	g 50
3224 11 13	2-EAR CLAMP 10.8-13.0MM GA	g 50
3224 13 15	2-EAR CLAMP 12.5-15.0MM GA	g 50
3224 15 18	2-EAR CLAMP 15.0-18.0MM GA	g 50
3224 19 23	2-EAR CLAMP 19.0-23.0MM GA	g 50
3224 23 27	2-EAR CLAMP 22.5-27.0MM GA	g 50
3224 27 31	2-EAR CLAMP 27.0-31.0MM GA	g 50
3224 29 34	2-EAR CLAMP 29.3-34.0MM GA	g 50
3224 32 37	2-EAR CLAMP 32.0-37.0 GA	g 50
3224 35 40	2-EAR CLAMP 35.0-40.0MM GA	g 50



RSGU Clamps

- Complies with DIN 3016 for pipes, cables, hoses etc.
- Steel strap clamps with reinforced strap edges, galvanised with rubber profile
- To reduce vibration, covers the clamping point, prevents ingress of water e.g. salt water in automotive winter operation



RSGU Clamps, B 12 mm

Article No.	Article Description	QTY
3232 5	RSGU RUB/STEEL CLAMP B 12 5MM	g 50
3232 6	RSGU RUB/STEEL CLAMP B 12 6MM	g 50
3232 8	RSGU RUB/STEEL CLAMP B 12 8MM	g 50
3232 10	RSGU RUB/STEEL CLAMP B 12 10MM	g 50 H
3232 12	RSGU RUB/STEEL CLAMP B 12 12MM	g 50
3232 14	RSGU RUB/STEEL CLAMP B 12 14MM	g 50
3232 15	RSGU RUB/STEEL CLAMP B 12 15MM	g 50
3232 18	RSGU RUB/STEEL CLAMP B 12 18MM	g 50
3232 20	RSGU RUB/STEEL CLAMP B 12 20MM	g 50
3232 22	RSGU RUB/STEEL CLAMP B 12 22MM	g 50

B = Strap width: Steel strip measured without rubber covering
Mounting hole dia.: M 5

RSGU Clamps, B 20 mm

Article No.	Article Description	QTY
3234 10	RSGU RUB/STEEL CLAMP B 20 10MM	g 50
3234 12	RSGU RUB/STEEL CLAMP B 20 12MM	g 50
3234 15	RSGU RUB/STEEL CLAMP B 20 15MM	g 50
3234 18	RSGU RUB/STEEL CLAMP B 20 18MM	g 50
3234 20	RSGU RUB/STEEL CLAMP B 20 20MM	g 50
3234 22	RSGU RUB/STEEL CLAMP B 20 22MM	g 50
3234 25	RSGU RUB/STEEL CLAMP B 20 25MM	g 50
3234 30	RSGU RUB/STEEL CLAMP B 20 30MM	g 50
3234 34	RSGU RUB/STEEL CLAMP B 20 34MM	g 50
3234 38	RSGU RUB/STEEL CLAMP B 20 38MM	g 50

B = Strap width: Steel strip measured without rubber covering
Mounting hole dia.: M 8

RSGU Clamps, B 15 mm

Article No.	Article Description	QTY
3233 6	RSGU RUB/STEEL CLAMP B 15 6MM	g 50
3233 8	RSGU RUB/STEEL CLAMP B 15 8MM	g 50
3233 10	RSGU RUB/STEEL CLAMP B 15 10MM	g 50
3233 12	RSGU RUB/STEEL CLAMP B 15 12MM	g 50
3233 14	RSGU RUB/STEEL CLAMP B 15 14MM	g 50
3233 15	RSGU RUB/STEEL CLAMP B 15 15MM	g 50
3233 16	RSGU RUB/STEEL CLAMP B 15 16MM	25
3233 18	RSGU RUB/STEEL CLAMP B 15 18MM	g 50
3233 20	RSGU RUB/STEEL CLAMP B 15 20MM	g 50
3233 22	RSGU RUB/STEEL CLAMP B 15 22MM	g 50
3233 25	RSGU RUB/STEEL CLAMP B 15 25MM	g 50
3233 46	RSGU RUB/STEEL CLAMP B 15 46MM	25

B = Strap width: Steel strip measured without rubber covering
Mounting hole dia.: M 6

RSGU Clamps, B 25 mm

Article No.	Article Description	QTY
3235 18	RSGU RUB/STEEL CLAMP B 25 18MM	g 50
3235 20	RSGU RUB/STEEL CLAMP B 25 20MM	g 50
3235 30	RSGU RUB/STEEL CLAMP B 25 30MM	g 50
3235 48	RSGU RUB/STEEL CLAMP B 25 48MM	g 50
3235 50	RSGU RUB/STEEL CLAMP B 25 50MM	g 50

B = Strap width: Steel strip measured without rubber covering
Mounting hole dia.: M 10

RSGU Clamps in Assortment

- Contents: 60 pieces
- Width: from 12 mm Ø 5 mm to 15 mm Ø 25 mm

Article No.	Article Description	QTY
9000 3232	ASSORTMENT RSGU CLAMPS	1
9000R 3232	TRAY RSGU CLAMPS	1



Hose Clamps

- Complies with DIN 3016
- Steel strap clamps with reinforced strap edges, galvanised
- For fixing of gas lines

Article No.	Article Description	QTY
3237 006	HOSE CLAMP B12 6MM	f 100
3237 008	HOSE CLAMP B12 8MM	f 100
3237 010	HOSE CLAMP B12 10MM	f 100



Hex Head Bolts DIN 931, Stainless Steel A2

• In compliance with ISO 4014



Article No.	Dimension	QTY
1005 5 30	M 5 x 30	500
1005 5 35	M 5 x 35	200
1005 5 40	M 5 x 40	200
1005 5 45	M 5 x 45	200
1005 5 50	M 5 x 50	200
1005 5 55	M 5 x 55	200
1005 5 60	M 5 x 60	200
1005 5 70	M 5 x 70	200
1005 6 30	M 6 x 30	200
1005 6 35	M 6 x 35	200
1005 6 40	M 6 x 40	200
1005 6 45	M 6 x 45	200
1005 6 50	M 6 x 50	200
1005 6 55	M 6 x 55	200
1005 6 60	M 6 x 60	200
1005 6 65	M 6 x 65	200
1005 6 70	M 6 x 70	200
1005 6 75	M 6 x 75	200
1005 6 80	M 6 x 80	200
1005 6 90	M 6 x 90	100
1005 6 100	M 6 x 100	100
1005 6 110	M 6 x 110	100
1005 6 120	M 6 x 120	100
1005 6 130	M 6 x 130	100
1005 6 140	M 6 x 140	100
1005 6 150	M 6 x 150	100
1005 6 160	M 6 x 160	100
1005 6 170	M 6 x 170	100
1005 6 180	M 6 x 180	100
1005 8 35	M 8 x 35	200
1005 8 40	M 8 x 40	200
1005 8 45	M 8 x 45	200
1005 8 50	M 8 x 50	200
1005 8 55	M 8 x 55	200
1005 8 60	M 8 x 60	200
1005 8 65	M 8 x 65	200
1005 8 70	M 8 x 70	100
1005 8 75	M 8 x 75	100
1005 8 80	M 8 x 80	100
1005 8 90	M 8 x 90	100
1005 8 100	M 8 x 100	100
1005 8 110	M 8 x 110	100
1005 8 120	M 8 x 120	100
1005 8 130	M 8 x 130	50
1005 8 140	M 8 x 140	50
1005 8 150	M 8 x 150	50
1005 8 160	M 8 x 160	50
1005 8 170	M 8 x 170	50
1005 8 180	M 8 x 180	50
1005 8 190	M 8 x 190	25
1005 8 200	M 8 x 200	50
1005 8 210	M 8 x 210	25
1005 8 220	M 8 x 220	25
1005 10 40	M 10 x 40	100
1005 10 45	M 10 x 45	100
1005 10 50	M 10 x 50	100
1005 10 55	M 10 x 55	100
1005 10 60	M 10 x 60	100
1005 10 65	M 10 x 65	100
1005 10 70	M 10 x 70	100
1005 10 75	M 10 x 75	100
1005 10 80	M 10 x 80	100
1005 10 90	M 10 x 90	50
1005 10 100	M 10 x 100	50
1005 10 110	M 10 x 110	50
1005 10 120	M 10 x 120	50
1005 10 130	M 10 x 130	50
1005 10 140	M 10 x 140	50
1005 10 150	M 10 x 150	50

(d thread dia. x length mm)

Article No.	Dimension	QTY
1005 10 160	M 10 x 160	50
1005 10 170	M 10 x 170	50
1005 10 180	M 10 x 180	50
1005 10 190	M 10 x 190	25
1005 10 200	M 10 x 200	25
1005 10 210	M 10 x 210	25
1005 10 220	M 10 x 220	25
1005 12 45	M 12 x 45	100
1005 12 50	M 12 x 50	100
1005 12 55	M 12 x 55	50
1005 12 60	M 12 x 60	100
1005 12 65	M 12 x 65	50
1005 12 70	M 12 x 70	50
1005 12 75	M 12 x 75	50
1005 12 80	M 12 x 80	50
1005 12 90	M 12 x 90	50
1005 12 100	M 12 x 100	50
1005 12 110	M 12 x 110	50
1005 12 120	M 12 x 120	25
1005 12 130	M 12 x 130	25
1005 12 140	M 12 x 140	25
1005 12 150	M 12 x 150	25
1005 12 160	M 12 x 160	25
1005 12 170	M 12 x 170	25
1005 12 180	M 12 x 180	25
1005 12 190	M 12 x 190	25
1005 12 200	M 12 x 200	25
1005 12 210	M 12 x 210	25
1005 12 220	M 12 x 220	25
1005 12 230	M 12 x 230	25
1005 12 240	M 12 x 240	25
1005 12 250	M 12 x 250	25
1005 14 55	M 14 x 55	50
1005 14 60	M 14 x 60	50
1005 14 65	M 14 x 65	50
1005 14 70	M 14 x 70	50
1005 14 80	M 14 x 80	50
1005 14 90	M 14 x 90	50
1005 14 100	M 14 x 100	50
1005 14 110	M 14 x 110	50
1005 14 120	M 14 x 120	50
1005 14 130	M 14 x 130	50
1005 14 140	M 14 x 140	25
1005 14 150	M 14 x 150	25
1005 16 55	M 16 x 55	50
1005 16 60	M 16 x 60	50
1005 16 65	M 16 x 65	25
1005 16 70	M 16 x 70	25
1005 16 75	M 16 x 75	25
1005 16 80	M 16 x 80	25
1005 16 90	M 16 x 90	25
1005 16 100	M 16 x 100	25
1005 16 110	M 16 x 110	25
1005 16 120	M 16 x 120	25
1005 16 130	M 16 x 130	25
1005 16 140	M 16 x 140	25
1005 16 150	M 16 x 150	25
1005 16 160	M 16 x 160	25
1005 16 170	M 16 x 170	25
1005 16 180	M 16 x 180	25
1005 16 190	M 16 x 190	25
1005 16 200	M 16 x 200	25
1005 16 210	M 16 x 210	25
1005 16 220	M 16 x 220	25
1005 16 230	M 16 x 230	25
1005 16 240	M 16 x 240	25
1005 16 250	M 16 x 250	10
1005 16 260	M 16 x 260	25
1005 16 270	M 16 x 270	10

Specifications

Thread	Head Dia.	Head size	k	b		
				L < 125	L 125 - 200	L > 200
mm	mm	mm	mm	mm	mm	mm
M 5	8	3.5	16	22	-	-
M 6	10	4	18	24	-	-
M 8	13	5.3	22	28	41	-
M 10	17	6.4	26	32	45	-
M 12	18	7.5	30	36	49	-
M 14	22	8.8	34	40	53	-
M 16	24	10	38	44	57	-
M 18	27	11.5	42	48	61	-
M 20	30	12.5	46	52	65	-
M 22	30	14	50	56	69	-
M 24	36	15	54	60	73	-
M 27	36	17	54	60	73	-
M 30	46	18.7	66	72	85	-
M 33	50	21	72	78	91	-
M 36	55	22.5	78	84	97	-

Article No.	Dimension	QTY
1005 16 280	M 16 x 280	25
1005 16 290	M 16 x 290	10
1005 16 300	M 16 x 300	10
1005 18 65	M 18 x 65	25
1005 18 70	M 18 x 70	25
1005 18 75	M 18 x 75	25
1005 18 80	M 18 x 80	25
1005 18 90	M 18 x 90	25
1005 18 100	M 18 x 100	25
1005 18 110	M 18 x 110	25
1005 18 120	M 18 x 120	25
1005 18 130	M 18 x 130	25
1005 18 140	M 18 x 140	25
1005 18 150	M 18 x 150	25
1005 20 65	M 20 x 65	25
1005 20 70	M 20 x 70	25
1005 20 75	M 20 x 75	25
1005 20 80	M 20 x 80	25
1005 20 90	M 20 x 90	25
1005 20 100	M 20 x 100	25
1005 20 110	M 20 x 110	25
1005 20 120	M 20 x 120	25
1005 20 130	M 20 x 130	25
1005 20 140	M 20 x 140	10
1005 20 150	M 20 x 150	10
1005 20 160	M 20 x 160	10
1005 20 170	M 20 x 170	10
1005 20 180	M 20 x 180	10
1005 20 190	M 20 x 190	10
1005 20 200	M 20 x 200	10
1005 20 210	M 20 x 210	10
1005 20 220	M 20 x 220	10
1005 20 230	M 20 x 230	10
1005 20 240	M 20 x 240	10
1005 20 250	M 20 x 250	10
1005 20 260	M 20 x 260	10
1005 20 270	M 20 x 270	10
1005 20 280	M 20 x 280	10
1005 20 290	M 20 x 290	10
1005 20 300	M 20 x 300	10
1005 22 80	M 22 x 80	25
1005 22 90	M 22 x 90	25
1005 22 100	M 22 x 100	25

Continued on next page

Hex Head Bolts DIN 931, Stainless Steel A2

- In compliance with ISO 4014



Article No.	Dimension	QTY
1005 22 110	M 22 x 110	20
1005 22 120	M 22 x 120	20
1005 22 130	M 22 x 130	20
1005 22 140	M 22 x 140	20
1005 22 150	M 22 x 150	20
1005 22 160	M 22 x 160	10
1005 24 75	M 24 x 75	10
1005 24 80	M 24 x 80	10
1005 24 90	M 24 x 90	10
1005 24 100	M 24 x 100	10
1005 24 110	M 24 x 110	10
1005 24 120	M 24 x 120	10
1005 24 130	M 24 x 130	10
1005 24 140	M 24 x 140	10
1005 24 150	M 24 x 150	10
1005 24 160	M 24 x 160	10
1005 24 170	M 24 x 170	10
1005 24 180	M 24 x 180	10
1005 24 190	M 24 x 190	10
1005 24 200	M 24 x 200	10
1005 24 210	M 24 x 210	10
1005 24 220	M 24 x 220	10
1005 24 230	M 24 x 230	10
1005 24 240	M 24 x 240	10
1005 24 250	M 24 x 250	10
1005 27 80	M 27 x 80	10
1005 27 90	M 27 x 90	10
1005 27 100	M 27 x 100	10
1005 27 110	M 27 x 110	10
1005 27 120	M 27 x 120	10
1005 27 130	M 27 x 130	10
1005 27 140	M 27 x 140	10
1005 27 150	M 27 x 150	10
1005 27 160	M 27 x 160	5
1005 27 170	M 27 x 170	5
1005 27 180	M 27 x 180	5
1005 27 190	M 27 x 190	5
1005 27 200	M 27 x 200	5
1005 27 210	M 27 x 210	5
1005 27 220	M 27 x 220	5
1005 27 230	M 27 x 230	5
1005 27 240	M 27 x 240	5
1005 27 250	M 27 x 250	5
1005 30 80	M 30 x 80	10
1005 30 90	M 30 x 90	10
1005 30 100	M 30 x 100	10
1005 30 110	M 30 x 110	10

(d Thread. Dia. x length mm)

Article No.	Dimension	QTY
1005 30 120	M 30 x 120	10
1005 30 130	M 30 x 130	10
1005 30 140	M 30 x 140	10
1005 30 150	M 30 x 150	10
1005 30 160	M 30 x 160	10
1005 30 170	M 30 x 170	5
1005 30 180	M 30 x 180	5
1005 30 190	M 30 x 190	5
1005 30 200	M 30 x 200	5
1005 30 210	M 30 x 210	5
1005 30 220	M 30 x 220	5
1005 30 230	M 30 x 230	5
1005 30 240	M 30 x 240	5
1005 30 250	M 30 x 250	5
1005 33 90	M 33 x 90	10
1005 33 100	M 33 x 100	10
1005 33 110	M 33 x 110	10
1005 33 120	M 33 x 120	10
1005 33 130	M 33 x 130	10
1005 33 140	M 33 x 140	10
1005 33 150	M 33 x 150	10
1005 33 160	M 33 x 160	5
1005 33 170	M 33 x 170	5
1005 33 180	M 33 x 180	5
1005 33 190	M 33 x 190	5
1005 33 200	M 33 x 200	5
1005 33 210	M 33 x 210	5
1005 33 220	M 33 x 220	5
1005 33 230	M 33 x 230	5
1005 33 240	M 33 x 240	5
1005 33 250	M 33 x 250	5
1005 36 100	M 36 x 100	5
1005 36 110	M 36 x 110	5
1005 36 120	M 36 x 120	5
1005 36 130	M 36 x 130	5
1005 36 140	M 36 x 140	5
1005 36 150	M 36 x 150	5
1005 36 160	M 36 x 160	5
1005 36 170	M 36 x 170	5
1005 36 180	M 36 x 180	5
1005 36 190	M 36 x 190	5
1005 36 200	M 36 x 200	5
1005 36 210	M 36 x 210	5
1005 36 220	M 36 x 220	5
1005 36 230	M 36 x 230	5
1005 36 240	M 36 x 240	5
1005 36 250	M 36 x 250	5

Specifications

Thread	Head	k	b	b	b
Dia.	size		L < 125	L 125 - 200	L > 200
mm	mm	mm	mm	mm	mm
M 5	8	3.5	16	22	-
M 6	10	4	18	24	-
M 8	13	5.3	22	28	41
M 10	17	6.4	26	32	45
M 12	18	7.5	30	36	49
M 14	22	8.8	34	40	53
M 16	24	10	38	44	57
M 18	27	11.5	42	48	61
M 20	30	12.5	46	52	65
M 22	30	14	50	56	69
M 24	36	15	54	60	73
M 27	36	17	54	60	73
M 30	46	18.7	66	72	85
M 33	50	21	72	78	91
M 36	55	22.5	78	84	97

Hex Head Bolts DIN 931, Stainless Steel A2

• In compliance with ISO 4014



Article No.	Dimension	QTY
1006 5 30	M 5 x 30	500
1006 5 35	M 5 x 35	200
1006 5 40	M 5 x 40	200
1006 5 45	M 5 x 45	200
1006 5 50	M 5 x 50	200
1006 5 55	M 5 x 55	200
1006 5 60	M 5 x 60	200
1006 5 70	M 5 x 70	200
1006 6 30	M 6 x 30	200
1006 6 35	M 6 x 35	200
1006 6 40	M 6 x 40	200
1006 6 45	M 6 x 45	100
1006 6 50	M 6 x 50	100
1006 6 55	M 6 x 55	100
1006 6 60	M 6 x 60	100
1006 6 65	M 6 x 65	100
1006 6 70	M 6 x 70	100
1006 6 75	M 6 x 75	100
1006 6 80	M 6 x 80	100
1006 6 90	M 6 x 90	100
1006 6 100	M 6 x 100	100
1006 6 110	M 6 x 110	100
1006 6 120	M 6 x 120	100
1006 6 130	M 6 x 130	100
1006 6 140	M 6 x 140	100
1006 6 150	M 6 x 150	100
1006 6 160	M 6 x 160	100
1006 6 170	M 6 x 170	100
1006 6 180	M 6 x 180	100
1006 8 35	M 8 x 35	100
1006 8 40	M 8 x 40	100
1006 8 45	M 8 x 45	100
1006 8 50	M 8 x 50	100
1006 8 55	M 8 x 55	100
1006 8 60	M 8 x 60	100
1006 8 65	M 8 x 65	50
1006 8 70	M 8 x 70	50
1006 8 75	M 8 x 75	50
1006 8 80	M 8 x 80	50
1006 8 90	M 8 x 90	50
1006 8 100	M 8 x 100	50
1006 8 110	M 8 x 110	50
1006 8 120	M 8 x 120	50
1006 8 130	M 8 x 130	50
1006 8 140	M 8 x 140	50
1006 8 150	M 8 x 150	50
1006 8 160	M 8 x 160	25
1006 8 170	M 8 x 170	25
1006 8 180	M 8 x 180	25
1006 8 190	M 8 x 190	25
1006 8 200	M 8 x 200	25
1006 8 210	M 8 x 210	25
1006 8 220	M 8 x 220	25
1006 10 40	M 10 x 40	100
1006 10 45	M 10 x 45	100
1006 10 50	M 10 x 50	50
1006 10 55	M 10 x 55	50
1006 10 60	M 10 x 60	50
1006 10 65	M 10 x 65	50
1006 10 70	M 10 x 70	50
1006 10 75	M 10 x 75	50
1006 10 80	M 10 x 80	50
1006 10 90	M 10 x 90	50
1006 10 100	M 10 x 100	50
1006 10 110	M 10 x 110	50
1006 10 120	M 10 x 120	50
1006 10 130	M 10 x 130	50
1006 10 140	M 10 x 140	50
1006 10 150	M 10 x 150	50

Article No.	Dimension	QTY
1006 10 160	M 10 x 160	25
1006 10 170	M 10 x 170	25
1006 10 180	M 10 x 180	25
1006 10 190	M 10 x 190	25
1006 10 200	M 10 x 200	25
1006 10 210	M 10 x 210	10
1006 10 220	M 10 x 220	10
1006 12 45	M 12 x 45	50
1006 12 50	M 12 x 50	50
1006 12 55	M 12 x 55	50
1006 12 60	M 12 x 60	50
1006 12 65	M 12 x 65	50
1006 12 70	M 12 x 70	50
1006 12 75	M 12 x 75	25
1006 12 80	M 12 x 80	25
1006 12 90	M 12 x 90	25
1006 12 100	M 12 x 100	25
1006 12 110	M 12 x 110	25
1006 12 120	M 12 x 120	25
1006 12 130	M 12 x 130	25
1006 12 140	M 12 x 140	25
1006 12 150	M 12 x 150	25
1006 12 160	M 12 x 160	10
1006 12 170	M 12 x 170	10
1006 12 180	M 12 x 180	10
1006 12 190	M 12 x 190	10
1006 12 200	M 12 x 200	10
1006 12 210	M 12 x 210	10
1006 12 220	M 12 x 220	10
1006 12 230	M 12 x 230	10
1006 12 240	M 12 x 240	10
1006 12 250	M 12 x 250	10
1006 14 55	M 14 x 55	50
1006 14 60	M 14 x 60	50
1006 14 65	M 14 x 65	50
1006 14 70	M 14 x 70	50
1006 14 80	M 14 x 80	50
1006 14 90	M 14 x 90	50
1006 14 100	M 14 x 100	50
1006 14 110	M 14 x 110	25
1006 14 120	M 14 x 120	25
1006 14 130	M 14 x 130	25
1006 14 140	M 14 x 140	25
1006 14 150	M 14 x 150	25
1006 16 55	M 16 x 55	25
1006 16 60	M 16 x 60	25
1006 16 65	M 16 x 65	25
1006 16 70	M 16 x 70	25
1006 16 75	M 16 x 75	25
1006 16 80	M 16 x 80	25
1006 16 90	M 16 x 90	25
1006 16 100	M 16 x 100	25
1006 16 110	M 16 x 110	25
1006 16 120	M 16 x 120	25
1006 16 130	M 16 x 130	25
1006 16 140	M 16 x 140	25
1006 16 150	M 16 x 150	25
1006 16 160	M 16 x 160	10
1006 16 170	M 16 x 170	10
1006 16 180	M 16 x 180	10
1006 16 190	M 16 x 190	10
1006 16 200	M 16 x 200	10
1006 16 210	M 16 x 210	10
1006 16 220	M 16 x 220	10
1006 16 230	M 16 x 230	10
1006 16 240	M 16 x 240	10
1006 16 250	M 16 x 250	10
1006 16 260	M 16 x 260	10
1006 16 270	M 16 x 270	10

Specifications

Thread		Head size	k	b	b	b
Dia.		mm	mm	L 125	L 125 - 200	L 200
M 5	8	3.5	16	22	-	-
M 6	10	4.0	18	24	-	-
M 8	13	5.3	22	28	41	-
M 10	17	6.4	26	32	45	-
M 12	18	7.5	30	36	49	-
M 14	22	8.8	34	40	53	-
M 16	24	10	38	44	57	-
M 18	27	11.5	42	48	61	-
M 20	30	12.5	46	52	65	-
M 22	30	14.0	50	56	69	-
M 24	36	15.0	54	60	73	-
M 27	36	17.0	54	60	73	-
M 30	46	18.7	66	72	85	-
M 33	50	21.0	72	78	91	-
M 36	55	22.5	78	84	97	-

Article No.	Dimension	QTY
1006 16 280	M 16 x 280	10
1006 16 290	M 16 x 290	10
1006 16 300	M 16 x 300	10
1006 18 65	M 18 x 65	25
1006 18 70	M 18 x 70	25
1006 18 75	M 18 x 75	25
1006 18 80	M 18 x 80	25
1006 18 90	M 18 x 90	25
1006 18 100	M 18 x 100	25
1006 18 110	M 18 x 110	25
1006 18 120	M 18 x 120	25
1006 18 130	M 18 x 130	25
1006 18 140	M 18 x 140	25
1006 18 150	M 18 x 150	25
1006 20 65	M 20 x 65	25
1006 20 70	M 20 x 70	25
1006 20 75	M 20 x 75	25
1006 20 80	M 20 x 80	25
1006 20 90	M 20 x 90	25
1006 20 100	M 20 x 100	25
1006 20 110	M 20 x 110	25
1006 20 120	M 20 x 120	25
1006 20 130	M 20 x 130	25
1006 20 140	M 20 x 140	25
1006 20 150	M 20 x 150	10
1006 20 160	M 20 x 160	25
1006 20 170	M 20 x 170	25
1006 20 180	M 20 x 180	25
1006 20 190	M 20 x 190	25
1006 20 200	M 20 x 200	25
1006 20 210	M 20 x 210	25
1006 20 220	M 20 x 220	25
1006 20 230	M 20 x 230	25
1006 20 240	M 20 x 240	25
1006 20 250	M 20 x 250	25
1006 20 260	M 20 x 260	25
1006 20 270	M 20 x 270	25
1006 20 280	M 20 x 280	25
1006 20 290	M 20 x 290	25
1006 20 300	M 20 x 300	25
1006 22 80	M 22 x 80	25
1006 22 90	M 22 x 90	25
1006 22 100	M 22 x 100	25

Continued on next page

Hex Head Bolts DIN 931, Stainless Steel A2

- In compliance with ISO 4014

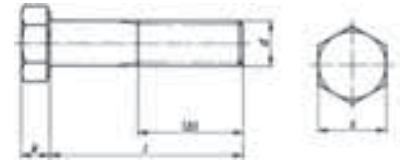


Article No.	Dimension	QTY
1006 22 110	M 22 x 110	20
1006 22 120	M 22 x 120	20
1006 22 130	M 22 x 130	20
1006 22 140	M 22 x 140	20
1006 22 150	M 22 x 150	20
1006 22 160	M 22 x 160	10
1006 24 75	M 24 x 75	10
1006 24 80	M 24 x 80	10
1006 24 90	M 24 x 90	10
1006 24 100	M 24 x 100	10
1006 24 110	M 24 x 110	10
1006 24 120	M 24 x 120	10
1006 24 130	M 24 x 130	10
1006 24 140	M 24 x 140	10
1006 24 150	M 24 x 150	10
1006 24 160	M 24 x 160	10
1006 24 170	M 24 x 170	10
1006 24 180	M 24 x 180	10
1006 24 190	M 24 x 190	10
1006 24 200	M 24 x 200	10
1006 24 210	M 24 x 210	5
1006 24 220	M 24 x 220	5
1006 24 230	M 24 x 230	5
1006 24 240	M 24 x 240	5
1006 24 250	M 24 x 250	5
1006 27 80	M 27 x 80	10
1006 27 90	M 27 x 90	10
1006 27 100	M 27 x 100	10
1006 27 110	M 27 x 110	10
1006 27 120	M 27 x 120	10
1006 27 130	M 27 x 130	10
1006 27 140	M 27 x 140	10
1006 27 150	M 27 x 150	10
1006 27 160	M 27 x 160	5
1006 27 170	M 27 x 170	5
1006 27 180	M 27 x 180	5
1006 27 190	M 27 x 190	5
1006 27 200	M 27 x 200	5
1006 27 210	M 27 x 210	5
1006 27 220	M 27 x 220	5
1006 27 230	M 27 x 230	5
1006 27 240	M 27 x 240	5
1006 27 250	M 27 x 250	5
1006 30 80	M 30 x 80	10
1006 30 90	M 30 x 90	10
1006 30 100	M 30 x 100	10
1006 30 110	M 30 x 110	10

(d Thread. Dia. x length mm)

Article No.	Dimension	QTY
1006 30 120	M 30 x 120	10
1006 30 130	M 30 x 130	10
1006 30 140	M 30 x 140	10
1006 30 150	M 30 x 150	10
1006 30 160	M 30 x 160	5
1006 30 170	M 30 x 170	5
1006 30 180	M 30 x 180	5
1006 30 190	M 30 x 190	5
1006 30 200	M 30 x 200	5
1006 30 210	M 30 x 210	5
1006 30 220	M 30 x 220	5
1006 30 230	M 30 x 230	5
1006 30 240	M 30 x 240	5
1006 30 250	M 30 x 250	5
1006 33 90	M 33 x 90	10
1006 33 100	M 33 x 100	10
1006 33 110	M 33 x 110	10
1006 33 120	M 33 x 120	10
1006 33 130	M 33 x 130	5
1006 33 140	M 33 x 140	5
1006 33 150	M 33 x 150	5
1006 33 160	M 33 x 160	5
1006 33 170	M 33 x 170	5
1006 33 180	M 33 x 180	5
1006 33 190	M 33 x 190	5
1006 33 200	M 33 x 200	5
1006 33 210	M 33 x 210	5
1006 33 220	M 33 x 220	5
1006 33 230	M 33 x 230	5
1006 33 240	M 33 x 240	5
1006 33 250	M 33 x 250	5
1006 36 100	M 36 x 100	10
1006 36 110	M 36 x 110	10
1006 36 120	M 36 x 120	10
1006 36 130	M 36 x 130	5
1006 36 140	M 36 x 140	5
1006 36 150	M 36 x 150	5
1006 36 160	M 36 x 160	5
1006 36 170	M 36 x 170	5
1006 36 180	M 36 x 180	5
1006 36 190	M 36 x 190	5
1006 36 200	M 36 x 200	5
1006 36 210	M 36 x 210	5
1006 36 220	M 36 x 220	5
1006 36 230	M 36 x 230	5
1006 36 240	M 36 x 240	5
1006 36 250	M 36 x 250	5

Specifications



Thread	Head	k	b	b	b
Dia.	size		L 125	L 125 - 200	L 200
mm	mm	mm	mm	mm	mm
M 5	8	3.5	16	22	-
M 6	10	4.0	18	24	-
M 8	13	5.3	22	28	41
M 10	17	6.4	26	32	45
M 12	18	7.5	30	36	49
M 14	22	8.8	34	40	53
M 16	24	10	38	44	57
M 18	27	11.5	42	48	61
M 20	30	12.5	46	52	65
M 22	30	14.0	50	56	69
M 24	36	15.0	54	60	73
M 27	36	17.0	54	60	73
M 30	46	18.7	66	72	85
M 33	50	21.0	72	78	91
M 36	55	22.5	78	84	97

Hex Head Bolts DIN 933, Stainless Steel A2

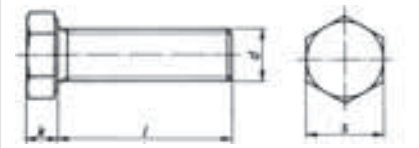
• In compliance with ISO 4017



Article No.	Dimension	QTY
1015 2 4	M 2 x 4	1000
1015 2 5	M 2 x 5	1000
1015 2 6	M 2 x 6	1000
1015 2 8	M 2 x 8	1000
1015 2 10	M 2 x 10	1000
1015 2 12	M 2 x 12	1000
1015 2 16	M 2 x 16	1000
1015 2 20	M 2 x 20	1000
1015 25 4	M 2,5 x 4	1000
1015 25 6	M 2,5 x 6	1000
1015 25 8	M 2,5 x 8	1000
1015 25 10	M 2,5 x 10	1000
1015 25 12	M 2,5 x 12	1000
1015 25 20	M 2,5 x 20	1000
1015 3 6	M 3 x 6	1000
1015 3 8	M 3 x 8	1000
1015 3 10	M 3 x 10	1000
1015 3 12	M 3 x 12	1000
1015 3 14	M 3 x 14	1000
1015 3 16	M 3 x 16	1000
1015 3 20	M 3 x 20	1000
1015 3 25	M 3 x 25	1000
1015 3 30	M 3 x 30	1000
1015 3 40	M 3 x 40	500
1015 3 50	M 3 x 50	200
1015 4 6	M 4 x 6	1000
1015 4 8	M 4 x 8	1000
1015 4 10	M 4 x 10	1000
1015 4 12	M 4 x 12	1000
1015 4 14	M 4 x 14	1000
1015 4 16	M 4 x 16	200
1015 4 18	M 4 x 18	1000
1015 4 20	M 4 x 20	W 500
1015 4 22	M 4 x 22	500
1015 4 25	M 4 x 25	W 500
1015 4 30	M 4 x 30	W 500
1015 4 35	M 4 x 35	500
1015 4 40	M 4 x 40	HW 500
1015 4 50	M 4 x 50	HW 500
1015 4 60	M 4 x 60	H 500
1015 5 6	M 5 x 6	W 500
1015 5 8	M 5 x 8	W 500
1015 5 10	M 5 x 10	HW 500
1015 5 12	M 5 x 12	W 500
1015 5 14	M 5 x 14	500
1015 5 16	M 5 x 16	HW 500
1015 5 18	M 5 x 18	W 500
1015 5 20	M 5 x 20	HW 500
1015 5 22	M 5 x 22	200
1015 5 25	M 5 x 25	HW 500
1015 5 30	M 5 x 30	HW 500
1015 5 35	M 5 x 35	HW 500
1015 5 40	M 5 x 40	HW 500
1015 5 45	M 5 x 45	HW 500
1015 5 50	M 5 x 50	HW 500
1015 5 55	M 5 x 55	200
1015 5 60	M 5 x 60	200
1015 5 70	M 5 x 70	100
1015 6 8	M 6 x 8	HW 500
1015 6 10	M 6 x 10	HW 500
1015 6 12	M 6 x 12	HW 500
1015 6 14	M 6 x 14	500
1015 6 16	M 6 x 16	HW 500
1015 6 18	M 6 x 18	HW 500
1015 6 20	M 6 x 20	HW 500
1015 6 22	M 6 x 22	HW 500
1015 6 25	M 6 x 25	HW 500
1015 6 30	M 6 x 30	H 200
1015 6 35	M 6 x 35	H 200

Article No.	Dimension	QTY
1015 6 40	M 6 x 40	H 200
1015 6 45	M 6 x 45	H 200
1015 6 50	M 6 x 50	H 200
1015 6 55	M 6 x 55	100
1015 6 60	M 6 x 60	H 200
1015 6 65	M 6 x 65	100
1015 6 70	M 6 x 70	H 200
1015 6 75	M 6 x 75	100
1015 6 80	M 6 x 80	H 200
1015 6 90	M 6 x 90	100
1015 6 100	M 6 x 100	100
1015 6 110	M 6 x 110	50
1015 6 120	M 6 x 120	50
1015 8 10	M 8 x 10	HW 500
1015 8 12	M 8 x 12	HW 500
1015 8 14	M 8 x 14	W 500
1015 8 16	M 8 x 16	HW 500
1015 8 18	M 8 x 18	W 500
1015 8 20	M 8 x 20	HW 500
1015 8 22	M 8 x 22	W 500
1015 8 25	M 8 x 25	HW 500
1015 8 30	M 8 x 30	HW 500
1015 8 35	M 8 x 35	HW 500
1015 8 40	M 8 x 40	HW 500
1015 8 45	M 8 x 45	H 200
1015 8 50	M 8 x 50	H 200
1015 8 55	M 8 x 55	100
1015 8 60	M 8 x 60	H 200
1015 8 65	M 8 x 65	H 200
1015 8 70	M 8 x 70	H 200
1015 8 75	M 8 x 75	50
1015 8 80	M 8 x 80	50
1015 8 90	M 8 x 90	50
1015 8 100	M 8 x 100	50
1015 8 110	M 8 x 110	50
1015 8 120	M 8 x 120	50
1015 8 130	M 8 x 130	50
1015 8 140	M 8 x 140	50
1015 8 150	M 8 x 150	50
1015 8 160	M 8 x 160	25
1015 8 170	M 8 x 170	25
1015 8 180	M 8 x 180	25
1015 10 10	M 10 x 10	100
1015 10 12	M 10 x 12	100
1015 10 14	M 10 x 14	100
1015 10 16	M 10 x 16	H 200
1015 10 18	M 10 x 18	100
1015 10 20	M 10 x 20	H 200
1015 10 22	M 10 x 22	100
1015 10 25	M 10 x 25	H 200
1015 10 30	M 10 x 30	H 200
1015 10 35	M 10 x 35	H 200
1015 10 40	M 10 x 40	H 200
1015 10 45	M 10 x 45	100
1015 10 50	M 10 x 50	100
1015 10 55	M 10 x 55	100
1015 10 60	M 10 x 60	100
1015 10 65	M 10 x 65	100
1015 10 70	M 10 x 70	100
1015 10 75	M 10 x 75	100
1015 10 80	M 10 x 80	100
1015 10 90	M 10 x 90	100
1015 10 100	M 10 x 100	100
1015 10 110	M 10 x 110	50
1015 10 120	M 10 x 120	50
1015 10 130	M 10 x 130	50
1015 10 140	M 10 x 140	50
1015 10 150	M 10 x 150	50
1015 10 160	M 10 x 160	25

Specifications



Thread Dia. mm	Head size mm	k mm
M 2	4	1.4
M 2.5	5	1.7
M 3	5.5	2.0
M 4	7	2.8
M 5	8	3.5
M 6	10	4.0
M 8	13	5.3
M 10	17	6.4
M 12	18	7.5
M 14	22	8.8
M 16	24	10.0
M 18	27	11.5
M 20	30	12.5
M 22	32	14.0
M 24	36	15.0
M 30	46	18.7
M 33	50	21.0
M 36	55	22.5

Article No.	Dimension	QTY
1015 10 170	M 10 x 170	25
1015 10 180	M 10 x 180	25
1015 10 190	M 10 x 190	25
1015 10 200	M 10 x 200	25
1015 12 16	M 12 x 16	100
1015 12 20	M 12 x 20	100
1015 12 22	M 12 x 22	100
1015 12 25	M 12 x 25	100
1015 12 30	M 12 x 30	f 100
1015 12 35	M 12 x 35	f 100
1015 12 40	M 12 x 40	f 100
1015 12 45	M 12 x 45	f 100
1015 12 50	M 12 x 50	f 100
1015 12 55	M 12 x 55	100
1015 12 60	M 12 x 60	f 100
1015 12 65	M 12 x 65	50
1015 12 70	M 12 x 70	50
1015 12 75	M 12 x 75	25
1015 12 80	M 12 x 80	25
1015 12 90	M 12 x 90	25
1015 12 100	M 12 x 100	25
1015 12 110	M 12 x 110	25
1015 12 120	M 12 x 120	25
1015 12 130	M 12 x 130	25
1015 12 140	M 12 x 140	25
1015 12 150	M 12 x 150	25
1015 12 160	M 12 x 160	10
1015 12 170	M 12 x 170	10
1015 12 180	M 12 x 180	10
1015 12 190	M 12 x 190	10
1015 12 200	M 12 x 200	10
1015 14 20	M 14 x 20	50
1015 14 25	M 14 x 25	50
1015 14 30	M 14 x 30	50
1015 14 35	M 14 x 35	50
1015 14 40	M 14 x 40	50
1015 14 45	M 14 x 45	50
1015 14 50	M 14 x 50	50
1015 14 55	M 14 x 55	50
1015 14 60	M 14 x 60	50
1015 14 65	M 14 x 65	50

Hex Head Bolts DIN 933, Stainless Steel A2

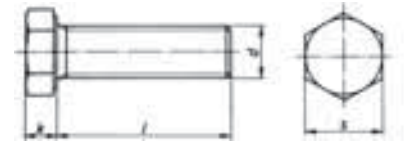
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Article No.	Dimension	QTY
1015 14 70	M 14 x 70	25
1015 14 75	M 14 x 75	50
1015 14 80	M 14 x 80	50
1015 14 90	M 14 x 90	50
1015 14 100	M 14 x 100	50
1015 14 110	M 14 x 110	25
1015 14 120	M 14 x 120	25
1015 14 130	M 14 x 130	25
1015 14 140	M 14 x 140	25
1015 14 150	M 14 x 150	25
1015 16 20	M 16 x 20	25
1015 16 25	M 16 x 25	25
1015 16 30	M 16 x 30	25
1015 16 35	M 16 x 35	25
1015 16 40	M 16 x 40	g 50
1015 16 45	M 16 x 45	25
1015 16 50	M 16 x 50	25
1015 16 55	M 16 x 55	25
1015 16 60	M 16 x 60	25
1015 16 65	M 16 x 65	25
1015 16 70	M 16 x 70	25
1015 16 75	M 16 x 75	25
1015 16 80	M 16 x 80	25
1015 16 90	M 16 x 90	25
1015 16 100	M 16 x 100	25
1015 16 110	M 16 x 110	25
1015 16 120	M 16 x 120	25
1015 16 130	M 16 x 130	25
1015 16 140	M 16 x 140	25
1015 16 150	M 16 x 150	25
1015 16 160	M 16 x 160	25
1015 16 170	M 16 x 170	25
1015 16 180	M 16 x 180	10
1015 16 190	M 16 x 190	10
1015 16 200	M 16 x 200	10
1015 18 30	M 18 x 30	25
1015 18 35	M 18 x 35	25
1015 18 40	M 18 x 40	25
1015 18 45	M 18 x 45	25
1015 18 50	M 18 x 50	25
1015 18 55	M 18 x 55	25
1015 18 60	M 18 x 60	25
1015 18 65	M 18 x 65	25
1015 18 70	M 18 x 70	25
1015 18 75	M 18 x 75	25
1015 18 80	M 18 x 80	25
1015 18 90	M 18 x 90	25
1015 18 100	M 18 x 100	25
1015 18 110	M 18 x 110	25
1015 18 120	M 18 x 120	25
1015 18 130	M 18 x 130	25
1015 18 140	M 18 x 140	25
1015 18 150	M 18 x 150	25
1015 20 30	M 20 x 30	25
1015 20 35	M 20 x 35	25
1015 20 40	M 20 x 40	25
1015 20 45	M 20 x 45	25
1015 20 50	M 20 x 50	25
1015 20 55	M 20 x 55	25
1015 20 60	M 20 x 60	25
1015 20 65	M 20 x 65	25
1015 20 70	M 20 x 70	25
1015 20 75	M 20 x 75	25
1015 20 80	M 20 x 80	25
1015 20 90	M 20 x 90	25
1015 20 100	M 20 x 100	25
1015 20 110	M 20 x 110	25
1015 20 120	M 20 x 120	25
1015 20 130	M 20 x 130	25

Article No.	Dimension	QTY
1015 20 140	M 20 x 140	25
1015 20 150	M 20 x 150	25
1015 20 160	M 20 x 160	25
1015 20 170	M 20 x 170	25
1015 20 180	M 20 x 180	20
1015 20 190	M 20 x 190	20
1015 20 200	M 20 x 200	20
1015 22 30	M 22 x 30	25
1015 22 35	M 22 x 35	25
1015 22 40	M 22 x 40	25
1015 22 45	M 22 x 45	25
1015 22 50	M 22 x 50	25
1015 22 55	M 22 x 55	25
1015 22 60	M 22 x 60	25
1015 22 65	M 22 x 65	25
1015 22 70	M 22 x 70	25
1015 22 75	M 22 x 75	25
1015 22 80	M 22 x 80	25
1015 22 90	M 22 x 90	25
1015 22 100	M 22 x 100	25
1015 22 110	M 22 x 110	20
1015 22 120	M 22 x 120	20
1015 22 130	M 22 x 130	20
1015 22 140	M 22 x 140	20
1015 22 150	M 22 x 150	10
1015 24 40	M 24 x 40	10
1015 24 45	M 24 x 45	10
1015 24 50	M 24 x 50	10
1015 24 55	M 24 x 55	10
1015 24 60	M 24 x 60	10
1015 24 65	M 24 x 65	10
1015 24 70	M 24 x 70	10
1015 24 75	M 24 x 75	10
1015 24 80	M 24 x 80	10
1015 24 90	M 24 x 90	10
1015 24 100	M 24 x 100	10
1015 24 110	M 24 x 110	10
1015 24 120	M 24 x 120	10
1015 24 130	M 24 x 130	10
1015 24 140	M 24 x 140	10
1015 24 150	M 24 x 150	10
1015 24 160	M 24 x 160	10
1015 24 170	M 24 x 170	10
1015 24 180	M 24 x 180	5
1015 24 190	M 24 x 190	5
1015 24 200	M 24 x 200	5
1015 27 50	M 27 x 50	10
1015 27 55	M 27 x 55	10
1015 27 60	M 27 x 60	10
1015 27 65	M 27 x 65	10
1015 27 70	M 27 x 70	10
1015 27 80	M 27 x 80	10
1015 27 90	M 27 x 90	10
1015 27 100	M 27 x 100	10
1015 27 110	M 27 x 110	10
1015 27 120	M 27 x 120	10
1015 30 60	M 30 x 60	10
1015 30 65	M 30 x 65	10
1015 30 70	M 30 x 70	10
1015 30 80	M 30 x 80	10
1015 30 90	M 30 x 90	10
1015 30 100	M 30 x 100	10
1015 30 110	M 30 x 110	10
1015 30 120	M 30 x 120	10
1015 33 70	M 33 x 70	10
1015 33 80	M 33 x 80	10
1015 33 90	M 33 x 90	10
1015 33 100	M 33 x 100	10
1015 33 110	M 33 x 110	10

Specifications



Thread Dia.	Head size	k
mm	mm	mm
M 2	4	1.4
M 2.5	5	1.7
M 3	5.5	2.0
M 4	7	2.8
M 5	8	3.5
M 6	10	4.0
M 8	13	5.3
M 10	17	6.4
M 12	18	7.5
M 14	22	8.8
M 16	24	10.0
M 18	27	11.5
M 20	30	12.5
M 22	32	14.0
M 24	36	15.0
M 30	46	18.7
M 33	50	21.0
M 36	55	22.5

Article No.	Dimension	QTY
1015 33 120	M 33 x 120	10
1015 36 80	M 36 x 80	5
1015 36 90	M 36 x 90	5
1015 36 100	M 36 x 100	5
1015 36 110	M 36 x 110	5
1015 36 120	M 36 x 120	5

Hex Head Bolts DIN 933, Stainless Steel A4

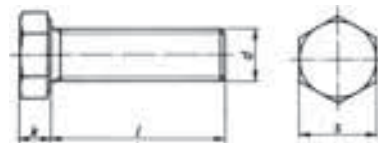
• In compliance with ISO 4017



Article No.	Dimension	QTY
1016 2 4	M 2 x 4	1000
1016 2 5	M 2 x 5	1000
1016 2 6	M 2 x 6	1000
1016 2 8	M 2 x 8	1000
1016 2 10	M 2 x 10	1000
1016 2 12	M 2 x 12	1000
1016 2 16	M 2 x 16	1000
1016 2 20	M 2 x 20	1000
1016 25 4	M 2,5 x 4	1000
1016 25 5	M 2,5 x 5	1000
1016 25 6	M 2,5 x 6	1000
1016 25 8	M 2,5 x 8	1000
1016 25 10	M 2,5 x 10	1000
1016 25 12	M 2,5 x 12	1000
1016 25 16	M 2,5 x 16	1000
1016 25 20	M 2,5 x 20	1000
1016 3 5	M 3 x 5	1000
1016 3 6	M 3 x 6	1000
1016 3 8	M 3 x 8	1000
1016 3 10	M 3 x 10	1000
1016 3 12	M 3 x 12	1000
1016 3 14	M 3 x 14	1000
1016 3 16	M 3 x 16	1000
1016 3 20	M 3 x 20	1000
1016 3 25	M 3 x 25	1000
1016 3 30	M 3 x 30	1000
1016 3 40	M 3 x 40	500
1016 3 50	M 3 x 50	200
1016 4 6	M 4 x 6	1000
1016 4 8	M 4 x 8	1000
1016 4 10	M 4 x 10	500
1016 4 12	M 4 x 12	W 500
1016 4 14	M 4 x 14	500
1016 4 16	M 4 x 16	500
1016 4 18	M 4 x 18	500
1016 4 20	M 4 x 20	W 500
1016 4 22	M 4 x 22	500
1016 4 25	M 4 x 25	W 500
1016 4 30	M 4 x 30	W 500
1016 4 35	M 4 x 35	500
1016 4 40	M 4 x 40	HW 500
1016 4 50	M 4 x 50	HW 500
1016 4 60	M 4 x 60	500
1016 5 6	M 5 x 6	W 500
1016 5 8	M 5 x 8	W 500
1016 5 10	M 5 x 10	HW 500
1016 5 12	M 5 x 12	W 500
1016 5 14	M 5 x 14	500
1016 5 16	M 5 x 16	HW 500
1016 5 18	M 5 x 18	W 500
1016 5 20	M 5 x 20	HW 500
1016 5 22	M 5 x 22	200
1016 5 25	M 5 x 25	HW 500
1016 5 30	M 5 x 30	200
1016 5 35	M 5 x 35	HW 500
1016 5 40	M 5 x 40	200
1016 5 45	M 5 x 45	HW 500
1016 5 50	M 5 x 50	200
1016 5 55	M 5 x 55	200
1016 5 60	M 5 x 60	200
1016 5 70	M 5 x 70	100
1016 6 8	M 6 x 8	HW 500
1016 6 10	M 6 x 10	HW 500
1016 6 12	M 6 x 12	HW 500
1016 6 14	M 6 x 14	100
1016 6 16	M 6 x 16	HW 500
1016 6 18	M 6 x 18	HW 500
1016 6 20	M 6 x 20	HW 500
1016 6 22	M 6 x 22	HW 500

Article No.	Dimension	QTY
1016 6 25	M 6 x 25	HW 500
1016 6 30	M 6 x 30	H 200
1016 6 35	M 6 x 35	H 200
1016 6 40	M 6 x 40	H 200
1016 6 45	M 6 x 45	H 200
1016 6 50	M 6 x 50	H 200
1016 6 55	M 6 x 55	100
1016 6 60	M 6 x 60	H 200
1016 6 65	M 6 x 65	100
1016 6 70	M 6 x 70	H 200
1016 6 75	M 6 x 75	100
1016 6 80	M 6 x 80	H 200
1016 6 90	M 6 x 90	100
1016 6 100	M 6 x 100	100
1016 6 110	M 6 x 110	50
1016 6 120	M 6 x 120	50
1016 8 10	M 8 x 10	HW 500
1016 8 12	M 8 x 12	HW 500
1016 8 14	M 8 x 14	W 500
1016 8 16	M 8 x 16	HW 500
1016 8 18	M 8 x 18	W 500
1016 8 20	M 8 x 20	HW 500
1016 8 22	M 8 x 22	W 500
1016 8 25	M 8 x 25	HW 500
1016 8 30	M 8 x 30	HW 500
1016 8 35	M 8 x 35	HW 500
1016 8 40	M 8 x 40	HW 500
1016 8 45	M 8 x 45	H 200
1016 8 50	M 8 x 50	H 200
1016 8 55	M 8 x 55	100
1016 8 60	M 8 x 60	H 200
1016 8 65	M 8 x 65	H 200
1016 8 70	M 8 x 70	H 200
1016 8 75	M 8 x 75	50
1016 8 80	M 8 x 80	50
1016 8 90	M 8 x 90	50
1016 8 100	M 8 x 100	50
1016 8 110	M 8 x 110	50
1016 8 120	M 8 x 120	50
1016 8 130	M 8 x 130	50
1016 8 140	M 8 x 140	50
1016 8 150	M 8 x 150	50
1016 8 160	M 8 x 160	25
1016 8 170	M 8 x 170	25
1016 8 180	M 8 x 180	25
1016 8 200	M 8 x 200	25
1016 10 12	M 10 x 12	100
1016 10 14	M 10 x 14	100
1016 10 16	M 10 x 16	H 200
1016 10 18	M 10 x 18	200
1016 10 20	M 10 x 20	H 200
1016 10 22	M 10 x 22	200
1016 10 25	M 10 x 25	H 200
1016 10 30	M 10 x 30	H 200
1016 10 35	M 10 x 35	H 200
1016 10 40	M 10 x 40	H 200
1016 10 45	M 10 x 45	100
1016 10 50	M 10 x 50	100
1016 10 55	M 10 x 55	100
1016 10 60	M 10 x 60	100
1016 10 65	M 10 x 65	100
1016 10 70	M 10 x 70	100
1016 10 75	M 10 x 75	100
1016 10 80	M 10 x 80	100
1016 10 90	M 10 x 90	100
1016 10 100	M 10 x 100	100
1016 10 110	M 10 x 110	50
1016 10 120	M 10 x 120	50
1016 10 130	M 10 x 130	50

Specifications



Thread Dia.	Head size	k
mm	mm	mm
M 2	4	1.4
M 2.5	5	1.7
M 3	5.5	2.0
M 4	7	2.8
M 5	8	3.5
M 6	10	4.0
M 8	13	5.3
M 10	17	6.4
M 12	18	7.5
M 14	22	8.8
M 16	24	10.0
M 18	27	11.5
M 20	30	12.5
M 22	32	14.0
M 24	36	15.0
M 30	46	18.7
M 33	50	21.0
M 36	55	22.5

Article No.	Dimension	QTY
1016 10 140	M 10 x 140	50
1016 10 150	M 10 x 150	50
1016 10 160	M 10 x 160	25
1016 10 170	M 10 x 170	25
1016 10 180	M 10 x 180	25
1016 10 200	M 10 x 200	25
1016 12 16	M 12 x 16	100
1016 12 20	M 12 x 20	100
1016 12 22	M 12 x 22	100
1016 12 25	M 12 x 25	100
1016 12 30	M 12 x 30	100
1016 12 35	M 12 x 35	100
1016 12 40	M 12 x 40	100
1016 12 45	M 12 x 45	100
1016 12 50	M 12 x 50	100
1016 12 55	M 12 x 55	100
1016 12 60	M 12 x 60	100
1016 12 65	M 12 x 65	50
1016 12 70	M 12 x 70	50
1016 12 75	M 12 x 75	25
1016 12 80	M 12 x 80	25
1016 12 90	M 12 x 90	25
1016 12 100	M 12 x 100	25
1016 12 110	M 12 x 110	25
1016 12 120	M 12 x 120	25
1016 12 130	M 12 x 130	25
1016 12 140	M 12 x 140	25
1016 12 150	M 12 x 150	25
1016 12 160	M 12 x 160	10
1016 12 170	M 12 x 170	10
1016 12 180	M 12 x 180	10
1016 12 190	M 12 x 190	10
1016 12 200	M 12 x 200	10
1016 14 20	M 14 x 20	50
1016 14 25	M 14 x 25	50
1016 14 30	M 14 x 30	50
1016 14 35	M 14 x 35	50
1016 14 40	M 14 x 40	50
1016 14 45	M 14 x 45	50

Hex Head Bolts DIN 933, Stainless Steel A4

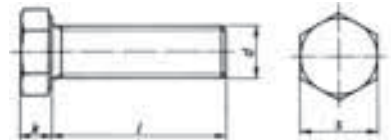
• In compliance with ISO 4017



Article No.	Dimension	QTY
1016 14 50	M 14 x 50	50
1016 14 55	M 14 x 55	50
1016 14 60	M 14 x 60	50
1016 14 65	M 14 x 65	50
1016 14 70	M 14 x 70	50
1016 14 75	M 14 x 75	50
1016 14 80	M 14 x 80	50
1016 14 90	M 14 x 90	50
1016 14 100	M 14 x 100	50
1016 14 110	M 14 x 110	25
1016 14 120	M 14 x 120	25
1016 14 130	M 14 x 130	25
1016 14 140	M 14 x 140	25
1016 14 150	M 14 x 150	25
1016 16 20	M 16 x 20	50
1016 16 25	M 16 x 25	50
1016 16 30	M 16 x 30	50
1016 16 35	M 16 x 35	50
1016 16 40	M 16 x 40	50
1016 16 45	M 16 x 45	50
1016 16 50	M 16 x 50	50
1016 16 55	M 16 x 55	50
1016 16 60	M 16 x 60	50
1016 16 65	M 16 x 65	25
1016 16 70	M 16 x 70	25
1016 16 75	M 16 x 75	25
1016 16 80	M 16 x 80	25
1016 16 90	M 16 x 90	25
1016 16 100	M 16 x 100	25
1016 16 110	M 16 x 110	25
1016 16 120	M 16 x 120	25
1016 16 130	M 16 x 130	25
1016 16 140	M 16 x 140	25
1016 16 150	M 16 x 150	25
1016 16 160	M 16 x 160	25
1016 16 170	M 16 x 170	25
1016 16 180	M 16 x 180	25
1016 16 190	M 16 x 190	25
1016 16 200	M 16 x 200	25
1016 18 30	M 18 x 30	50
1016 18 35	M 18 x 35	50
1016 18 40	M 18 x 40	50
1016 18 45	M 18 x 45	50
1016 18 50	M 18 x 50	50
1016 18 55	M 18 x 55	25
1016 18 60	M 18 x 60	25
1016 18 65	M 18 x 65	25
1016 18 70	M 18 x 70	25
1016 18 75	M 18 x 75	25
1016 18 80	M 18 x 80	25
1016 18 90	M 18 x 90	25
1016 18 100	M 18 x 100	25
1016 18 110	M 18 x 110	10
1016 18 120	M 18 x 120	10
1016 18 130	M 18 x 130	10
1016 18 140	M 18 x 140	10
1016 18 150	M 18 x 150	10
1016 20 30	M 20 x 30	25
1016 20 35	M 20 x 35	25
1016 20 40	M 20 x 40	25
1016 20 45	M 20 x 45	25
1016 20 50	M 20 x 50	25
1016 20 55	M 20 x 55	25
1016 20 60	M 20 x 60	25
1016 20 65	M 20 x 65	25
1016 20 70	M 20 x 70	25
1016 20 75	M 20 x 75	25
1016 20 80	M 20 x 80	25
1016 20 90	M 20 x 90	25

Article No.	Dimension	QTY
1016 20 100	M 20 x 100	25
1016 20 110	M 20 x 110	25
1016 20 120	M 20 x 120	25
1016 20 130	M 20 x 130	25
1016 20 140	M 20 x 140	25
1016 20 150	M 20 x 150	25
1016 20 160	M 20 x 160	25
1016 20 170	M 20 x 170	25
1016 20 180	M 20 x 180	20
1016 20 190	M 20 x 190	20
1016 20 200	M 20 x 200	20
1016 22 30	M 22 x 30	25
1016 22 35	M 22 x 35	25
1016 22 40	M 22 x 40	25
1016 22 45	M 22 x 45	25
1016 22 50	M 22 x 50	25
1016 22 55	M 22 x 55	25
1016 22 60	M 22 x 60	25
1016 22 65	M 22 x 65	25
1016 22 70	M 22 x 70	25
1016 22 75	M 22 x 75	25
1016 22 80	M 22 x 80	25
1016 22 90	M 22 x 90	25
1016 22 100	M 22 x 100	25
1016 22 110	M 22 x 110	20
1016 22 120	M 22 x 120	20
1016 22 130	M 22 x 130	20
1016 22 140	M 22 x 140	20
1016 22 150	M 22 x 150	10
1016 24 40	M 24 x 40	10
1016 24 45	M 24 x 45	10
1016 24 50	M 24 x 50	10
1016 24 55	M 24 x 55	10
1016 24 60	M 24 x 60	10
1016 24 65	M 24 x 65	10
1016 24 70	M 24 x 70	10
1016 24 75	M 24 x 75	10
1016 24 80	M 24 x 80	10
1016 24 90	M 24 x 90	10
1016 24 100	M 24 x 100	10
1016 24 110	M 24 x 110	10
1016 24 120	M 24 x 120	10
1016 24 130	M 24 x 130	10
1016 24 140	M 24 x 140	10
1016 24 150	M 24 x 150	10
1016 24 160	M 24 x 160	10
1016 24 170	M 24 x 170	10
1016 24 180	M 24 x 180	5
1016 24 190	M 24 x 190	5
1016 24 200	M 24 x 200	5
1016 27 50	M 27 x 50	10
1016 27 55	M 27 x 55	10
1016 27 60	M 27 x 60	10
1016 27 65	M 27 x 65	10
1016 27 70	M 27 x 70	10
1016 27 80	M 27 x 80	10
1016 27 90	M 27 x 90	10
1016 27 100	M 27 x 100	10
1016 27 110	M 27 x 110	10
1016 27 120	M 27 x 120	10
1016 30 60	M 30 x 60	10
1016 30 65	M 30 x 65	10
1016 30 70	M 30 x 70	10
1016 30 80	M 30 x 80	10
1016 30 90	M 30 x 90	10
1016 30 100	M 30 x 100	10
1016 30 110	M 30 x 110	10
1016 30 120	M 30 x 120	10
1016 33 70	M 33 x 70	10

Specifications



Thread	Head size	k
Dia. mm	mm	mm
M 2	4	1.4
M 2.5	5	1.7
M 3	5.5	2.0
M 4	7	2.8
M 5	8	3.5
M 6	10	4.0
M 8	13	5.3
M 10	17	6.4
M 12	18	7.5
M 14	22	8.8
M 16	24	10.0
M 18	27	11.5
M 20	30	12.5
M 22	32	14.0
M 24	36	15.0
M 30	46	18.7
M 33	50	21.0
M 36	55	22.5

Article No.	Dimension	QTY
1016 33 80	M 33 x 80	10
1016 33 90	M 33 x 90	10
1016 33 100	M 33 x 100	10
1016 33 110	M 33 x 110	10
1016 33 120	M 33 x 120	10
1016 36 80	M 36 x 80	5
1016 36 90	M 36 x 90	5
1016 36 100	M 36 x 100	5
1016 36 110	M 36 x 110	5
1016 36 120	M 36 x 120	5

Hex Socket Cap Screws DIN 912, Stainless Steel A2

• In compliance with ISO 4762



Article No.	Dimension	QTY
1155 2 4	M 2 x 4	500
1155 2 5	M 2 x 5	500
1155 2 6	M 2 x 6	500
1155 2 8	M 2 x 8	500
1155 2 10	M 2 x 10	500
1155 2 12	M 2 x 12	500
1155 2 14	M 2 x 14	500
1155 2 16	M 2 x 16	500
1155 2 18	M 2 x 18	500
1155 2 20	M 2 x 20	500
1155 25 4	M 2,5 x 4	500
1155 25 5	M 2,5 x 5	500
1155 25 6	M 2,5 x 6	500
1155 25 8	M 2,5 x 8	500
1155 25 10	M 2,5 x 10	500
1155 25 12	M 2,5 x 12	500
1155 25 14	M 2,5 x 14	500
1155 25 16	M 2,5 x 16	500
1155 25 18	M 2,5 x 18	500
1155 25 20	M 2,5 x 20	500
1155 3 4	M 3 x 4	H 500
1155 3 5	M 3 x 5	H 500
1155 3 6	M 3 x 6	H 500
1155 3 8	M 3 x 8	H 500
1155 3 10	M 3 x 10	H 500
1155 3 12	M 3 x 12	H 500
1155 3 14	M 3 x 14	H 500
1155 3 16	M 3 x 16	H 500
1155 3 18	M 3 x 18	H 200
1155 3 20	M 3 x 20	H 200
1155 3 22	M 3 x 22	H 200
1155 3 25	M 3 x 25	H 200
1155 3 30	M 3 x 30	H 200
1155 3 35	M 3 x 35	H 200
1155 3 40	M 3 x 40	H 200
1155 3 45	M 3 x 45	H 200
1155 3 50	M 3 x 50	H 200
1155 3 60	M 3 x 60	200
1155 3 70	M 3 x 70	200
1155 4 5	M 4 x 5	H 500
1155 4 6	M 4 x 6	H 500
1155 4 8	M 4 x 8	H 500
1155 4 10	M 4 x 10	H 500
1155 4 12	M 4 x 12	H 500
1155 4 14	M 4 x 14	H 500
1155 4 16	M 4 x 16	H 500
1155 4 18	M 4 x 18	H 500
1155 4 20	M 4 x 20	H 500
1155 4 22	M 4 x 22	H 500
1155 4 25	M 4 x 25	H 500
1155 4 30	M 4 x 30	H 500
1155 4 35	M 4 x 35	H 200
1155 4 40	M 4 x 40	H 200
1155 4 45	M 4 x 45	H 200
1155 4 50	M 4 x 50	H 200
1155 4 60	M 4 x 60	H 200
1155 4 70	M 4 x 70	H 200
1155 5 6	M 5 x 6	H 500
1155 5 8	M 5 x 8	H 500
1155 5 10	M 5 x 10	H 500
1155 5 12	M 5 x 12	H 500
1155 5 14	M 5 x 14	H 500
1155 5 16	M 5 x 16	H 500
1155 5 18	M 5 x 18	H 500
1155 5 20	M 5 x 20	H 500
1155 5 22	M 5 x 22	H 500
1155 5 25	M 5 x 25	H 500
1155 5 30	M 5 x 30	H 500
1155 5 35	M 5 x 35	H 200

Article No.	Dimension	QTY
1155 5 40	M 5 x 40	H 200
1155 5 45	M 5 x 45	H 200
1155 5 50	M 5 x 50	H 200
1155 5 55	M 5 x 55	H 200
1155 5 60	M 5 x 60	H 200
1155 5 65	M 5 x 65	H 200
1155 5 70	M 5 x 70	H 200
1155 5 80	M 5 x 80	100
1155 5 90	M 5 x 90	100
1155 5 100	M 5 x 100	100
1155 6 8	M 6 x 8	H 500
1155 6 10	M 6 x 10	H 500
1155 6 12	M 6 x 12	H 500
1155 6 14	M 6 x 14	H 500
1155 6 16	M 6 x 16	H 500
1155 6 18	M 6 x 18	H 500
1155 6 20	M 6 x 20	H 500
1155 6 22	M 6 x 22	H 500
1155 6 25	M 6 x 25	H 500
1155 6 30	M 6 x 30	H 500
1155 6 35	M 6 x 35	H 200
1155 6 40	M 6 x 40	H 200
1155 6 45	M 6 x 45	H 200
1155 6 50	M 6 x 50	H 200
1155 6 55	M 6 x 55	H 200
1155 6 60	M 6 x 60	H 200
1155 6 65	M 6 x 65	H 200
1155 6 70	M 6 x 70	H 200
1155 6 75	M 6 x 75	H 200
1155 6 80	M 6 x 80	H 200
1155 6 90	M 6 x 90	H 200
1155 6 100	M 6 x 100	H 200
1155 6 110	M 6 x 110	100
1155 6 120	M 6 x 120	100
1155 6 130	M 6 x 130	100
1155 6 140	M 6 x 140	100
1155 6 150	M 6 x 150	100
1155 8 10	M 8 x 10	H 200
1155 8 12	M 8 x 12	H 200
1155 8 14	M 8 x 14	200
1155 8 16	M 8 x 16	H 200
1155 8 18	M 8 x 18	H 200
1155 8 20	M 8 x 20	H 200
1155 8 22	M 8 x 22	H 200
1155 8 25	M 8 x 25	H 200
1155 8 30	M 8 x 30	H 200
1155 8 35	M 8 x 35	H 200
1155 8 40	M 8 x 40	H 200
1155 8 45	M 8 x 45	100
1155 8 50	M 8 x 50	100
1155 8 55	M 8 x 55	100
1155 8 60	M 8 x 60	100
1155 8 65	M 8 x 65	100
1155 8 70	M 8 x 70	100
1155 8 75	M 8 x 75	100
1155 8 80	M 8 x 80	100
1155 8 90	M 8 x 90	100
1155 8 100	M 8 x 100	100
1155 8 110	M 8 x 110	100
1155 8 120	M 8 x 120	100
1155 8 130	M 8 x 130	100
1155 8 140	M 8 x 140	100
1155 8 150	M 8 x 150	100
1155 10 16	M 10 x 16	100
1155 10 18	M 10 x 18	100
1155 10 20	M 10 x 20	100
1155 10 25	M 10 x 25	100
1155 10 30	M 10 x 30	100
1155 10 35	M 10 x 35	100

Specifications

Thread	b	dk	k	s	t
Dia.	mm	max	max	mm	min
M 2	16	3.8	2	1.5	1.0
M 2.5	17	4.5	2.5	2	1.1
M 3	18	5.5	3	2.5	1.3
M 4	20	7.0	4	3	2.0
M 5	22	8.5	5	4	2.5
M 6	24	10.0	6	5	3.0
M 8	28	13.0	8	6	4.0
M 10	32	16.0	10	8	5.0
M 12	36	18.0	12	10	6.7
M 14	40	21.0	14	12	7.0
M 16	44	24.0	16	14	8.0
M 18	48	27.0	18	14	9.0
M 20	52	30.0	20	17	10.0
M 24	60	36.0	24	19	12.0
M 27	66	40.0	27	19	13.5
M 30	72	45.0	30	22	15.5

Article No.	Dimension	QTY
1155 10 40	M 10 x 40	100
1155 10 45	M 10 x 45	100
1155 10 50	M 10 x 50	100
1155 10 55	M 10 x 55	100
1155 10 60	M 10 x 60	100
1155 10 65	M 10 x 65	100
1155 10 70	M 10 x 70	g 100
1155 10 75	M 10 x 75	100
1155 10 80	M 10 x 80	100
1155 10 90	M 10 x 90	50
1155 10 100	M 10 x 100	50
1155 10 110	M 10 x 110	50
1155 10 120	M 10 x 120	50
1155 10 130	M 10 x 130	50
1155 10 140	M 10 x 140	50
1155 10 150	M 10 x 150	50
1155 12 16	M 12 x 16	100
1155 12 20	M 12 x 20	100
1155 12 25	M 12 x 25	100
1155 12 30	M 12 x 30	100
1155 12 35	M 12 x 35	100
1155 12 40	M 12 x 40	100
1155 12 45	M 12 x 45	100
1155 12 50	M 12 x 50	100
1155 12 55	M 12 x 55	100
1155 12 60	M 12 x 60	100
1155 12 65	M 12 x 65	50
1155 12 70	M 12 x 70	50
1155 12 75	M 12 x 75	50
1155 12 80	M 12 x 80	50
1155 12 90	M 12 x 90	50
1155 12 100	M 12 x 100	50
1155 12 110	M 12 x 110	50
1155 12 120	M 12 x 120	50
1155 12 130	M 12 x 130	50
1155 12 140	M 12 x 140	50
1155 12 150	M 12 x 150	50
1155 14 20	M 14 x 20	100
1155 14 25	M 14 x 25	100
1155 14 30	M 14 x 30	100
1155 14 35	M 14 x 35	100

Hex Socket Cap Screws DIN 912, Stainless Steel A2

• In compliance with ISO 4762

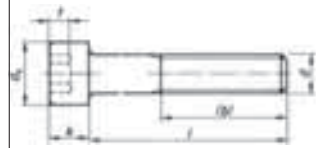


Article No.	Dimension	QTY
1155 14 40	M 14 x 40	100
1155 14 45	M 14 x 45	100
1155 14 50	M 14 x 50	100
1155 14 55	M 14 x 55	25
1155 14 60	M 14 x 60	50
1155 14 65	M 14 x 65	50
1155 14 70	M 14 x 70	50
1155 14 75	M 14 x 75	25
1155 14 80	M 14 x 80	50
1155 14 90	M 14 x 90	50
1155 14 100	M 14 x 100	50
1155 14 110	M 14 x 110	50
1155 14 120	M 14 x 120	10
1155 14 130	M 14 x 130	50
1155 14 140	M 14 x 140	50
1155 14 150	M 14 x 150	10
1155 16 20	M 16 x 20	50
1155 16 25	M 16 x 25	50
1155 16 30	M 16 x 30	50
1155 16 35	M 16 x 35	50
1155 16 40	M 16 x 40	50
1155 16 45	M 16 x 45	50
1155 16 50	M 16 x 50	50
1155 16 55	M 16 x 55	50
1155 16 60	M 16 x 60	50
1155 16 65	M 16 x 65	25
1155 16 70	M 16 x 70	25
1155 16 75	M 16 x 75	25
1155 16 80	M 16 x 80	25
1155 16 90	M 16 x 90	25
1155 16 100	M 16 x 100	25
1155 16 110	M 16 x 110	25
1155 16 120	M 16 x 120	25
1155 16 130	M 16 x 130	25
1155 16 140	M 16 x 140	25
1155 16 150	M 16 x 150	10
1155 18 40	M 18 x 40	25
1155 18 45	M 18 x 45	25
1155 18 50	M 18 x 50	25
1155 18 55	M 18 x 55	25
1155 18 60	M 18 x 60	25
1155 18 65	M 18 x 65	25
1155 18 70	M 18 x 70	25
1155 18 75	M 18 x 75	25
1155 18 80	M 18 x 80	25
1155 18 90	M 18 x 90	25
1155 18 100	M 18 x 100	25
1155 18 110	M 18 x 110	10
1155 18 120	M 18 x 120	10
1155 18 130	M 18 x 130	10
1155 18 140	M 18 x 140	10
1155 18 150	M 18 x 150	10
1155 20 30	M 20 x 30	25
1155 20 35	M 20 x 35	25

(d thread dia. x length mm)

Article No.	Dimension	QTY
1155 20 40	M 20 x 40	25
1155 20 45	M 20 x 45	25
1155 20 50	M 20 x 50	25
1155 20 55	M 20 x 55	25
1155 20 60	M 20 x 60	25
1155 20 65	M 20 x 65	25
1155 20 70	M 20 x 70	25
1155 20 75	M 20 x 75	25
1155 20 80	M 20 x 80	25
1155 20 90	M 20 x 90	25
1155 20 100	M 20 x 100	25
1155 20 110	M 20 x 110	25
1155 20 120	M 20 x 120	25
1155 20 130	M 20 x 130	10
1155 20 140	M 20 x 140	25
1155 20 150	M 20 x 150	10
1155 24 40	M 24 x 40	10
1155 24 45	M 24 x 45	10
1155 24 50	M 24 x 50	10
1155 24 55	M 24 x 55	10
1155 24 60	M 24 x 60	10
1155 24 65	M 24 x 65	10
1155 24 70	M 24 x 70	10
1155 24 75	M 24 x 75	10
1155 24 80	M 24 x 80	10
1155 24 90	M 24 x 90	10
1155 24 100	M 24 x 100	10
1155 24 110	M 24 x 110	5
1155 24 120	M 24 x 120	5
1155 24 130	M 24 x 130	5
1155 24 140	M 24 x 140	5
1155 24 150	M 24 x 150	5
1155 27 50	M 27 x 50	5
1155 27 60	M 27 x 60	5
1155 27 70	M 27 x 70	5
1155 27 80	M 27 x 80	5
1155 27 90	M 27 x 90	5
1155 27 100	M 27 x 100	5
1155 27 110	M 27 x 110	5
1155 27 120	M 27 x 120	5
1155 27 130	M 27 x 130	5
1155 27 140	M 27 x 140	5
1155 27 150	M 27 x 150	5
1155 30 50	M 30 x 50	5
1155 30 60	M 30 x 60	5
1155 30 70	M 30 x 70	5
1155 30 80	M 30 x 80	5
1155 30 90	M 30 x 90	5
1155 30 100	M 30 x 100	5
1155 30 110	M 30 x 110	5
1155 30 120	M 30 x 120	5
1155 30 130	M 30 x 130	5
1155 30 140	M 30 x 140	5
1155 30 150	M 30 x 150	5

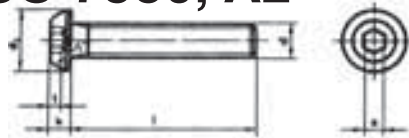
Specifications



Thread	b	dk	k	s	t
Dia.		max	max		min
mm	mm	mm	mm	mm	mm
M 2	16	3.8	2	1.5	1.0
M 2.5	17	4.5	2.5	2	1.1
M 3	18	5.5	3	2.5	1.3
M 4	20	7.0	4	3	2.0
M 5	22	8.5	5	4	2.5
M 6	24	10.0	6	5	3.0
M 8	28	13.0	8	6	4.0
M 10	32	16.0	10	8	5.0
M 12	36	18.0	12	10	6.7
M 14	40	21.0	14	12	7.0
M 16	44	24.0	16	14	8.0
M 18	48	27.0	18	14	9.0
M 20	52	30.0	20	17	10.0
M 24	60	36.0	24	19	12.0
M 27	66	40.0	27	19	13.5
M 30	72	45.0	30	22	15.5

Oval Head Bolts, ISO 7380, A2

- With hex socket
- **Stainless steel A2**



Article No.	Dimension	QTY
1175 4 6	4 x 6	500
1175 4 8	4 x 8	500
1175 5 6	5 x 6	500
1175 5 10	5 x 10	500
1175 5 12	5 x 12	500
1175 5 14	5 x 14	500
1175 5 16	5 x 16	500
1175 5 20	5 x 20	500
1175 5 25	5 x 25	500
1175 5 30	5 x 30	500
1175 5 35	5 x 35	500
1175 5 40	5 x 40	500
1175 6 8	6 x 8	500
1175 6 10	6 x 10	500
1175 6 12	6 x 12	500

(d thread dia. x length mm)

Article No.	Dimension	QTY
1175 6 14	6 x 14	500
1175 6 16	6 x 16	500
1175 6 20	6 x 20	500
1175 6 25	6 x 25	200
1175 6 30	6 x 30	200
1175 6 35	6 x 35	200
1175 6 40	6 x 40	200
1175 6 60	6 x 60	200
1175 8 10	8 x 10	200
1175 8 12	8 x 12	200
1175 8 16	8 x 16	200
1175 8 20	8 x 20	200
1175 8 25	8 x 25	200
1175 8 30	8 x 30	200

Specifications

Thread	rl	t	s	k	dk
Dia.					
mm	mm	mm	mm	mm	mm
M 4	4.1	1.7	2.5	2.20	7.6
M 5	5.2	2.2	3.0	2.75	9.5
M 6	5.6	2.4	4.4	3.30	10.5
M 8	7.5	3.2	5.0	4.40	14.0

Oval Head with Flange ISO 7380, A2

- With hex socket
- **Stainless steel A2**



Article No.	Dimension	QTY
1177 6 12	6 x 12	500
1177 6 16	6 x 16	200
1177 6 20	6 x 20	200
1177 6 25	6 x 25	200
1177 6 30	6 x 30	200
1177 8 10	8 x 10	200
1177 8 12	8 x 12	200
1177 8 16	8 x 16	200
1177 8 20	8 x 20	200
1177 8 25	8 x 25	100
1177 8 30	8 x 30	100

(d thread dia. x length mm)

Specifications

Thread	k	t	Q	s	dk
Dia.					
mm	mm	mm	mm	mm	mm
M 4	2.20	1.7	1.80	3.5	9.4
M 5	2.75	2.2	2.20	3.0	11.8
M 6	3.30	2.4	2.40	4.0	13.6
M 8	4.40	3.2	3.23	4.4	17.8

Safety Bolts ISO 7380, Hex Socket w. Pin, A2

- Hex socket with safety pin
- **Stainless steel A2**
- Metric thread, pan head
- Part No. Bit 4304 25, 4304 40, 4304 50, 4304 50



Article No.	Dimension	QTY
1178 1 4 10	M 4 x 10	100
1178 1 4 16	M 4 x 16	100
1178 1 4 25	M 4 x 25	100
1178 1 6 12	M 6 x 12	100
1178 1 6 16	M 6 x 16	100
1178 1 6 20	M 6 x 20	100
1178 1 6 25	M 6 x 25	100
1178 1 8 16	M 8 x 16	100

(d thread dia. x length mm)

Article No.	Dimension	QTY
1178 1 8 20	M 8 x 20	100
1178 1 8 25	M 8 x 25	100
1178 1 8 30	M 8 x 30	100
1178 1 8 40	M 8 x 40	100
1178 1 8 60	M 8 x 60	100
1178 1 10 16	M 10 x 16	100
1178 1 10 30	M 10 x 30	100

Specifications

Thread	Head	Head	Drive
Dia.	Dia.	height	
mm	mm	mm	
M 4	7.6	2.2	2.5
M 6	10.5	3.3	4.0
M 8	14.0	4.4	5.0
M 10	17.5	5.5	6.0

Bit 1/4" Hexagon Socket with Pin

- For safety screws with hex socket und safety pin

Article No.	Article Description	QTY
4304 25	1/4"HEX.SOCK.WITH PIN 2,5MM	1
4304 40	1/4"HEX.SOCK.WITH PIN 4MM	1
4304 50	1/4"HEX.SOCK.WITH PIN 5MM	1
4304 60	1/4"HEX.SOCK.WITH PIN 6MM	1



Safety Screws ISO 7380 Torx Pin, A2

- Torx safety pin
- **Stainless steel A2**
- Metric thread, pan head
- Part No. Bit 4308 10, 4308 20, 4308 30, 4308 40, 4308 45



Article No.	Dimension	QTY
1178 3 6	M 3 x 6	100
1178 4 8	M 4 x 8	100
1178 4 10	M 4 x 10	100
1178 4 12	M 4 x 12	100
1178 4 16	M 4 x 16	100
1178 5 10	M 5 x 10	100
1178 5 16	M 5 x 16	100
1178 5 20	M 5 x 20	100
1178 6 12	M 6 x 12	100

(d thread dia. x length mm)

Article No.	Dimension	QTY
1178 6 16	M 6 x 16	100
1178 6 40	M 6 x 40	100
1178 6 50	M 6 x 50	100
1178 8 16	M 8 x 16	100
1178 8 20	M 8 x 20	100
1178 8 25	M 8 x 25	100
1178 8 30	M 8 x 30	100
1178 10 20	M 10 x 20	100
1178 10 25	M 10 x 25	100
1178 10 30	M 10 x 30	100

Specifications			
Thread Dia. mm	Head Dia. mm	Head height mm	Drive
M 3	5.7	1.7	TX10
M 4	7.6	2.2	TX20
M 6	10.5	3.3	TX30
M 8	14.0	4.4	TX40
M 10	17.5	5.5	TX45

Safety Screws DIN 7991 Torx Pin, A2

- Torx safety pin
- **Stainless steel A2**
- Metric thread, countersunk head
- Part No. 4308 20, 4308 25



Article No.	Dimension	QTY
1179 2 4 10	M 4 x 10	100
1179 2 4 20	M 4 x 20	100
1179 2 4 25	M 4 x 25	100
1179 2 5 16	M 5 x 16	100
1179 2 6 16	M 6 x 16	100

(d thread dia. x length mm)

Specifications			
Thread Dia. mm	Head Dia. mm	Head height mm	Drive
M 4	8	2.3	TX20
M 5	10	2.8	TX25

Standard 1/4" Bit for Torx with Head Drill Hole

- For safety screws with Torx safety pin



Article No.	Article Description	QTY
4308 10	1/4"TX HOLE BITS 25MM TX10	1 z
4308 15	1/4"TX HOLE BITS 25MM TX15	1 z
4308 20	1/4"TX HOLE BITS 25MM TX20	1 z
4308 25	1/4"TX HOLE BITS 25MM TX25	1 z
4308 27	1/4"TX HOLE BITS 25MM TX27	1 z
4308 30	1/4"TX HOLE BITS 25MM TX30	1 z
4308 40	1/4"TX HOLE BITS 25MM TX40	1 z
4308 45	1/4"TX HOLE BITS 25MM TX45	1

Safety Screws with Two Hole Drive, A2

- Two hole drive
- **Stainless steel A2**
- Metric thread, pan head
- Part No. Bit 4304 4 10, 4304 4 14



Article No.	Dimension	QTY
1179 5 20	M 5 x 20	100
1179 6 12	M 6 x 12	100
1179 6 20	M 6 x 20	100

(d thread dia. x length mm)

Specifications			
Thread Dia.	Head Dia.	Head height	Drive
mm	mm	mm	
M 5	9.5	3.0	SP-10
M 6	12.0	3.6	SP-1/4

Bit for Two Hole Head 1/4" , Hex Drive

- For safety screws with two-hole drive

Article No.	Article Description	QTY
4304 4 10	1/4"HEX.TWO-HOLE SP-10 1	
4304 4 14	1/4"HEX.TWO-HOLE SP-14 1	



Safety Screws One-way Drive, A2

- One-way drive
- **Stainless steel A2**
- Metric thread, round-head



Article No.	Dimension	QTY
1179 1 6 12	M 6 x 12	100
1179 1 8 45	M 8 x 45	100

(d thread dia. x length mm)

Specifications		
Thread Dia.	Head Dia.	Head height
mm	mm	mm
M 6	12	4.4
M 8	13	4.8

Safety Screws ISO 7380 with Plugged Head, A2

- Plugged head
- **Stainless steel A2**
- Metric thread, countersunk



Article No.	Dimension	QTY
1178 2 6 16	M 6 x 16	100
1178 2 8 40	M 8 x 40	100
1178 2 8 60	M 8 x 60	100

(d thread dia. x length mm)

Specifications		
Thread Dia.	Head Dia.	Head height
mm	mm	mm
M 6	10.5	3.2
M 8	14	4.4

Hex Socket Countersunk Screws DIN 7991, A2



- Corresponds to ISO 10462
- Stainless steel A2

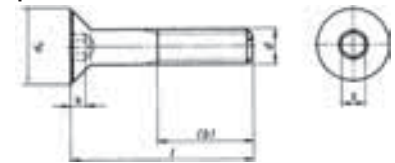


Article No.	Dimension	QTY
1165 3 6	M 3 x 6	1000
1165 3 8	M 3 x 8	100
1165 3 10	M 3 x 10	100
1165 3 12	M 3 x 12	100
1165 3 14	M 3 x 14	100
1165 3 16	M 3 x 16	100
1165 3 18	M 3 x 18	100
1165 3 20	M 3 x 20	500
1165 3 25	M 3 x 25	100
1165 3 30	M 3 x 30	100
1165 3 40	M 3 x 40	100
1165 4 6	M 4 x 6	100
1165 4 8	M 4 x 8	100
1165 4 10	M 4 x 10	100
1165 4 12	M 4 x 12	100
1165 4 14	M 4 x 14	100
1165 4 16	M 4 x 16	100
1165 4 18	M 4 x 18	100
1165 4 20	M 4 x 20	100
1165 4 25	M 4 x 25	100
1165 4 30	M 4 x 30	100
1165 4 35	M 4 x 35	100
1165 4 40	M 4 x 40	100
1165 4 50	M 4 x 50	100
1165 5 8	M 5 x 8	100
1165 5 10	M 5 x 10	100
1165 5 12	M 5 x 12	100
1165 5 14	M 5 x 14	H 200
1165 5 16	M 5 x 16	100
1165 5 18	M 5 x 18	100
1165 5 20	M 5 x 20	100
1165 5 25	M 5 x 25	100
1165 5 30	M 5 x 30	100
1165 5 35	M 5 x 35	100
1165 5 40	M 5 x 40	100
1165 5 45	M 5 x 45	100
1165 5 50	M 5 x 50	100
1165 5 60	M 5 x 60	100
1165 6 8	M 6 x 8	100
1165 6 10	M 6 x 10	100
1165 6 12	M 6 x 12	100
1165 6 14	M 6 x 14	100
1165 6 16	M 6 x 16	100
1165 6 18	M 6 x 18	100
1165 6 20	M 6 x 20	100
1165 6 25	M 6 x 25	100
1165 6 30	M 6 x 30	100
1165 6 35	M 6 x 35	100
1165 6 40	M 6 x 40	100
1165 6 45	M 6 x 45	100
1165 6 50	M 6 x 50	100
1165 6 55	M 6 x 55	100
1165 6 60	M 6 x 60	100
1165 6 70	M 6 x 70	100
1165 6 80	M 6 x 80	100
1165 8 12	M 8 x 12	100
1165 8 14	M 8 x 14	100
1165 8 16	M 8 x 16	100
1165 8 18	M 8 x 18	100
1165 8 20	M 8 x 20	100
1165 8 25	M 8 x 25	100
1165 8 30	M 8 x 30	100
1165 8 35	M 8 x 35	100
1165 8 40	M 8 x 40	100
1165 8 45	M 8 x 45	100
1165 8 50	M 8 x 50	100
1165 8 55	M 8 x 55	100
1165 8 60	M 8 x 60	100
1165 8 70	M 8 x 70	100

(d thread dia. x length)

Article No.	Dimension	QTY
1165 8 80	M 8 x 80	100
1165 8 90	M 8 x 90	100
1165 8 100	M 8 x 100	100
1165 10 16	M 10 x 16	100
1165 10 18	M 10 x 18	100
1165 10 20	M 10 x 20	100
1165 10 25	M 10 x 25	100
1165 10 30	M 10 x 30	100
1165 10 35	M 10 x 35	100
1165 10 40	M 10 x 40	100
1165 10 45	M 10 x 45	100
1165 10 50	M 10 x 50	100
1165 10 55	M 10 x 55	50
1165 10 60	M 10 x 60	50
1165 10 70	M 10 x 70	50
1165 10 80	M 10 x 80	50
1165 10 90	M 10 x 90	50
1165 10 100	M 10 x 100	50
1165 12 20	M 12 x 20	100
1165 12 25	M 12 x 25	100
1165 12 30	M 12 x 30	100
1165 12 35	M 12 x 35	100
1165 12 40	M 12 x 40	100
1165 12 45	M 12 x 45	100
1165 12 50	M 12 x 50	50
1165 12 55	M 12 x 55	50
1165 12 60	M 12 x 60	50
1165 12 70	M 12 x 70	50
1165 12 80	M 12 x 80	50
1165 12 90	M 12 x 90	50
1165 12 100	M 12 x 100	50
1165 16 25	M 16 x 25	50
1165 16 30	M 16 x 30	50
1165 16 35	M 16 x 35	50
1165 16 40	M 16 x 40	50
1165 16 45	M 16 x 45	50
1165 16 50	M 16 x 50	50
1165 16 55	M 16 x 55	50
1165 16 60	M 16 x 60	50
1165 16 70	M 16 x 70	25
1165 16 80	M 16 x 80	25
1165 16 90	M 16 x 90	25
1165 16 100	M 16 x 100	25
1165 16 110	M 16 x 110	10
1165 16 120	M 16 x 120	25
1165 16 130	M 16 x 130	10
1165 16 140	M 16 x 140	10
1165 16 150	M 16 x 150	10
1165 20 40	M 20 x 40	10
1165 20 45	M 20 x 45	10
1165 20 50	M 20 x 50	10
1165 20 55	M 20 x 55	10
1165 20 60	M 20 x 60	10
1165 20 70	M 20 x 70	10
1165 20 80	M 20 x 80	10
1165 20 90	M 20 x 90	10
1165 20 100	M 20 x 100	10
1165 20 110	M 20 x 110	10
1165 20 120	M 20 x 120	10
1165 20 130	M 20 x 130	10
1165 20 140	M 20 x 140	10
1165 20 150	M 20 x 150	10
1165 24 50	M 24 x 50	10
1165 24 55	M 24 x 55	10
1165 24 60	M 24 x 60	10
1165 24 70	M 24 x 70	10
1165 24 80	M 24 x 80	10
1165 24 90	M 24 x 90	10
1165 24 100	M 24 x 100	10

Specifications



Thread Dia. mm	b mm	dk max mm	k max mm	s mm
M 3	12	6	1.7	2
M 4	14	8	2.3	2,5
M 5	16	10.0	2.8	3
M 6	18	12.0	3.3	4
M 8	22	16.0	4.4	5
M 10	26	20.0	5.5	6
M 12	30	24.0	6.5	8
M 16	38	30.0	7.5	10
M 20	46	36.0	8.5	12
M 24	54	39.0	14	14

Article No.	Dimension	QTY
1165 24 110	M 24 x 110	10
1165 24 120	M 24 x 120	10
1165 24 130	M 24 x 130	10
1165 24 140	M 24 x 140	10
1165 24 150	M 24 x 150	10

Carriage Bolts DIN 603, Stainless Steel A2

- In compliance with ISO 8677
- With square shoulder (carriage bolt)
- Without nuts



Article No.	Dimension	QTY
1105 5 16	M 5 x 16	200
1105 5 20	M 5 x 20	200
1105 5 25	M 5 x 25	200
1105 5 30	M 5 x 30	200
1105 5 35	M 5 x 35	200
1105 5 40	M 5 x 40	200
1105 5 45	M 5 x 45	200
1105 5 50	M 5 x 50	200
1105 5 55	M 5 x 55	200
1105 5 60	M 5 x 60	200
1105 5 65	M 5 x 65	200
1105 5 70	M 5 x 70	200
1105 5 75	M 5 x 75	200
1105 5 80	M 5 x 80	200
1105 6 16	M 6 x 16	200
1105 6 20	M 6 x 20	200
1105 6 25	M 6 x 25	200
1105 6 30	M 6 x 30	200
1105 6 35	M 6 x 35	200
1105 6 40	M 6 x 40	200
1105 6 45	M 6 x 45	200
1105 6 50	M 6 x 50	200
1105 6 55	M 6 x 55	200
1105 6 60	M 6 x 60	200
1105 6 65	M 6 x 65	200
1105 6 70	M 6 x 70	200
1105 6 75	M 6 x 75	100
1105 6 80	M 6 x 80	100
1105 6 90	M 6 x 90	100
1105 6 100	M 6 x 100	100
1105 6 110	M 6 x 110	100
1105 6 120	M 6 x 120	100
1105 6 140	M 6 x 140	100
1105 8 16	M 8 x 16	200
1105 8 20	M 8 x 20	200
1105 8 25	M 8 x 25	200
1105 8 30	M 8 x 30	200
1105 8 35	M 8 x 35	200
1105 8 40	M 8 x 40	200
1105 8 45	M 8 x 45	200
1105 8 50	M 8 x 50	200
1105 8 55	M 8 x 55	100
1105 8 60	M 8 x 60	100
1105 8 65	M 8 x 65	100

(d thread dia. x length)

Article No.	Dimension	QTY
1105 8 70	M 8 x 70	100
1105 8 75	M 8 x 75	100
1105 8 80	M 8 x 80	100
1105 8 90	M 8 x 90	100
1105 8 100	M 8 x 100	100
1105 8 110	M 8 x 110	100
1105 8 120	M 8 x 120	50
1105 8 130	M 8 x 130	50
1105 8 140	M 8 x 140	50
1105 8 150	M 8 x 150	50
1105 8 160	M 8 x 160	50
1105 10 20	M 10 x 20	200
1105 10 25	M 10 x 25	200
1105 10 30	M 10 x 30	100
1105 10 35	M 10 x 35	100
1105 10 40	M 10 x 40	100
1105 10 45	M 10 x 45	100
1105 10 50	M 10 x 50	100
1105 10 55	M 10 x 55	100
1105 10 60	M 10 x 60	100
1105 10 65	M 10 x 65	100
1105 10 70	M 10 x 70	50
1105 10 75	M 10 x 75	50
1105 10 80	M 10 x 80	50
1105 10 90	M 10 x 90	50
1105 10 100	M 10 x 100	50
1105 10 110	M 10 x 110	50
1105 10 120	M 10 x 120	50
1105 10 130	M 10 x 130	50
1105 10 140	M 10 x 140	50
1105 10 150	M 10 x 150	50
1105 10 160	M 10 x 160	50
1105 10 180	M 10 x 180	50
1105 10 200	M 10 x 200	25
1105 12 25	M 12 x 25	100
1105 12 30	M 12 x 30	100
1105 12 35	M 12 x 35	100
1105 12 40	M 12 x 40	100
1105 12 45	M 12 x 45	50
1105 12 50	M 12 x 50	50
1105 12 55	M 12 x 55	50
1105 12 60	M 12 x 60	50
1105 12 65	M 12 x 65	50
1105 12 70	M 12 x 70	50

Specifications



Thread	dk	k	b	b
Dia.			L < 125	L 125 - 200
mm	mm	mm	mm	mm
M 5	13.55	3.30	16	22
M 6	16.55	3.88	18	24
M 8	20.65	4.88	22	28
M 10	24.65	5.38	26	32
M 12	30.65	6.95	30	36
M 16	38.80	8.95	38	44

Article No.	Dimension	QTY
1105 12 75	M 12 x 75	50
1105 12 80	M 12 x 80	50
1105 12 90	M 12 x 90	50
1105 12 100	M 12 x 100	50
1105 12 110	M 12 x 110	25
1105 12 120	M 12 x 120	25
1105 12 130	M 12 x 130	25
1105 12 140	M 12 x 140	25
1105 12 150	M 12 x 150	25
1105 16 40	M 16 x 40	25
1105 16 45	M 16 x 45	25
1105 16 50	M 16 x 50	25
1105 16 55	M 16 x 55	25
1105 16 60	M 16 x 60	25
1105 16 65	M 16 x 65	25
1105 16 70	M 16 x 70	25
1105 16 75	M 16 x 75	25
1105 16 80	M 16 x 80	25
1105 16 90	M 16 x 90	25
1105 16 100	M 16 x 100	25
1105 16 110	M 16 x 110	25
1105 16 120	M 16 x 120	25
1105 16 130	M 16 x 130	25
1105 16 140	M 16 x 140	25
1105 16 150	M 16 x 150	25

Threaded Rods DIN 976, Stainless Steel A2

- Length: 100 mm

Article No.	Dimension	QTY
1825 2	M 2	1
1825 25	M 2,5	1
1825 3	M 3	1
1825 4	M 4	1
1825 5	M 5	1
1825 6	M 6	1
1825 8	M 8	1
1825 10	M 10	1
1825 12	M 12	1
1825 14	M 14	1

Article No.	Dimension	QTY
1825 16	M 16	1
1825 18	M 18	1
1825 20	M 20	1
1825 22	M 22	1
1825 24	M 24	1
1825 27	M 27	1
1825 30	M 30	1
1825 33	M 33	1
1825 36	M 36	1



Threaded Rods DIN 976, Stainless Steel A4

- Length: 1000 mm

Article No.	Dimension	QTY
1826 2	M 2	1
1826 25	M 2,5	1
1826 3	M 3	1
1826 4	M 4	1
1826 5	M 5	1
1826 6	M 6	1
1826 8	M 8	1
1826 10	M 10	1
1826 12	M 12	1
1826 14	M 14	1

Article No.	Dimension	QTY
1826 16	M 16	1
1826 18	M 18	1
1826 20	M 20	1
1826 22	M 22	1
1826 24	M 24	1
1826 27	M 27	1
1826 30	M 30	1
1826 33	M 33	1
1826 36	M 36	1



Flat Head Bolts DIN 7985, Stainless Steel A2



- In compliance with ISO 7045
- Phillips drive

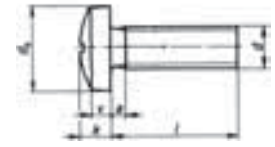


Article No.	Dimension	QTY
1235 2 4	M 2 x 4	1000
1235 2 5	M 2 x 5	1000
1235 2 6	M 2 x 6	1000
1235 2 8	M 2 x 8	1000
1235 2 10	M 2 x 10	1000
1235 2 12	M 2 x 12	1000
1235 2 16	M 2 x 16	1000
1235 2 20	M 2 x 20	1000
1235 25 4	M 2,5 x 4	1000
1235 25 5	M 2,5 x 5	1000
1235 25 6	M 2,5 x 6	100
1235 25 8	M 2,5 x 8	1000
1235 25 10	M 2,5 x 10	1000
1235 25 12	M 2,5 x 12	1000
1235 25 16	M 2,5 x 16	1000
1235 25 20	M 2,5 x 20	1000
1235 25 25	M 2,5 x 25	1000
1235 3 4	M 3 x 4	HR 500
1235 3 5	M 3 x 5	500
1235 3 6	M 3 x 6	HR 500
1235 3 8	M 3 x 8	500
1235 3 10	M 3 x 10	HR 500
1235 3 12	M 3 x 12	500
1235 3 14	M 3 x 14	500
1235 3 16	M 3 x 16	500
1235 3 18	M 3 x 18	500
1235 3 20	M 3 x 20	500
1235 3 22	M 3 x 22	500
1235 3 25	M 3 x 25	500
1235 3 30	M 3 x 30	500
1235 3 35	M 3 x 35	500
1235 3 40	M 3 x 40	500
1235 3 45	M 3 x 45	500
1235 3 50	M 3 x 50	500
1235 4 5	M 4 x 5	500
1235 4 6	M 4 x 6	500
1235 4 8	M 4 x 8	HR 500
1235 4 10	M 4 x 10	HR 500

(d thread dia. x length)

Article No.	Dimension	QTY
1235 4 12	M 4 x 12	500
1235 4 14	M 4 x 14	500
1235 4 16	M 4 x 16	HR 500
1235 4 18	M 4 x 18	500
1235 4 20	M 4 x 20	HR 500
1235 4 22	M 4 x 22	500
1235 4 25	M 4 x 25	HR 500
1235 4 30	M 4 x 30	HR 500
1235 4 35	M 4 x 35	500
1235 4 40	M 4 x 40	500
1235 4 45	M 4 x 45	500
1235 4 50	M 4 x 50	500
1235 4 60	M 4 x 60	500
1235 5 6	M 5 x 6	500
1235 5 8	M 5 x 8	500
1235 5 10	M 5 x 10	HR 500
1235 5 12	M 5 x 12	HR 500
1235 5 14	M 5 x 14	500
1235 5 16	M 5 x 16	HR 500
1235 5 18	M 5 x 18	500
1235 5 20	M 5 x 20	HR 500
1235 5 22	M 5 x 22	500
1235 5 25	M 5 x 25	HR 500
1235 5 30	M 5 x 30	HR 500
1235 5 35	M 5 x 35	HR 500
1235 5 40	M 5 x 40	HR 500
1235 5 45	M 5 x 45	100
1235 5 50	M 5 x 50	500
1235 5 60	M 5 x 60	500
1235 5 70	M 5 x 70	500
1235 5 80	M 5 x 80	500
1235 5 90	M 5 x 90	500
1235 6 8	M 6 x 8	500
1235 6 10	M 6 x 10	H 500
1235 6 12	M 6 x 12	HR 500
1235 6 16	M 6 x 16	HR 500
1235 6 20	M 6 x 20	HR 500
1235 6 25	M 6 x 25	HR 500

Specifications



Thread Dia. mm	a max. mm	dk max. mm	k mm	v mm	Drive PH
M 2	0.8	4	1.6	1.1	1
M 2.5	0.9	5	2.0	1.3	1
M 3	1.0	6	2.4	1.6	1
M 4	1.4	8	3.1	2.0	2
M 5	1.6	10	3.8	2.5	2
M 6	2.0	12	4.6	3.0	3
M 8	2.5	16	6.0	3.7	4

Article No.	Dimension	QTY
1235 6 30	M 6 x 30	HR 500
1235 6 35	M 6 x 35	100
1235 6 40	M 6 x 40	100
1235 6 45	M 6 x 45	100
1235 6 50	M 6 x 50	100
1235 6 60	M 6 x 60	100
1235 6 70	M 6 x 70	100
1235 6 80	M 6 x 80	100
1235 6 90	M 6 x 90	100
1235 8 12	M 8 x 12	100
1235 8 16	M 8 x 16	100
1235 8 20	M 8 x 20	100
1235 8 25	M 8 x 25	100
1235 8 30	M 8 x 30	100
1235 8 35	M 8 x 35	100
1235 8 40	M 8 x 40	100
1235 8 45	M 8 x 45	100
1235 8 50	M 8 x 50	100
1235 8 60	M 8 x 60	100

Countersunk Head Screws DIN965, Stainless Steel A2

- Corresponds to ISO 7046
- Phillips drive



Article No.	Dimension	QTY
1245 2 4	M 2 x 4	1000
1245 2 5	M 2 x 5	1000
1245 2 6	M 2 x 6	1000
1245 2 8	M 2 x 8	1000
1245 2 10	M 2 x 10	1000
1245 2 12	M 2 x 12	1000
1245 2 16	M 2 x 16	1000
1245 2 20	M 2 x 20	1000
1245 2 5 4	M 2,5 x 4	1000
1245 2 5 5	M 2,5 x 5	1000
1245 2 5 6	M 2,5 x 6	1000
1245 2 5 8	M 2,5 x 8	1000
1245 2 5 10	M 2,5 x 10	1000
1245 2 5 12	M 2,5 x 12	1000
1245 2 5 16	M 2,5 x 16	1000
1245 2 5 20	M 2,5 x 20	1000
1245 3 4	M 3 x 4	500
1245 3 5	M 3 x 5	500
1245 3 6	M 3 x 6	500
1245 3 8	M 3 x 8	500
1245 3 10	M 3 x 10	HR 500
1245 3 12	M 3 x 12	500
1245 3 14	M 3 x 14	500
1245 3 16	M 3 x 16	HR 500
1245 3 18	M 3 x 18	500
1245 3 20	M 3 x 20	500
1245 3 22	M 3 x 22	500
1245 3 25	M 3 x 25	H 500
1245 3 30	M 3 x 30	500
1245 3 35	M 3 x 35	500
1245 3 40	M 3 x 40	500
1245 4 5	M 4 x 5	500
1245 4 6	M 4 x 6	500
1245 4 8	M 4 x 8	HR 500
1245 4 10	M 4 x 10	HR 500
1245 4 12	M 4 x 12	500
1245 4 14	M 4 x 14	H 500
1245 4 16	M 4 x 16	HR 500
1245 4 18	M 4 x 18	500
1245 4 20	M 4 x 20	HR 500
1245 4 22	M 4 x 22	500

(d thread dia. x length)

Article No.	Dimension	QTY
1245 4 25	M 4 x 25	HR 500
1245 4 30	M 4 x 30	fHR 500
1245 4 35	M 4 x 35	500
1245 4 40	M 4 x 40	500
1245 4 45	M 4 x 45	500
1245 4 50	M 4 x 50	HR 500
1245 5 6	M 5 x 6	500
1245 5 8	M 5 x 8	500
1245 5 10	M 5 x 10	HR 500
1245 5 12	M 5 x 12	HR 500
1245 5 14	M 5 x 14	500
1245 5 16	M 5 x 16	HR 500
1245 5 18	M 5 x 18	500
1245 5 20	M 5 x 20	HR 500
1245 5 22	M 5 x 22	500
1245 5 25	M 5 x 25	HR 500
1245 5 30	M 5 x 30	HR 500
1245 5 35	M 5 x 35	500
1245 5 40	M 5 x 40	HR 500
1245 5 45	M 5 x 45	500
1245 5 50	M 5 x 50	HR 500
1245 5 60	M 5 x 60	500
1245 5 70	M 5 x 70	500
1245 5 80	M 5 x 80	500
1245 6 8	M 6 x 8	500
1245 6 10	M 6 x 10	HR 500
1245 6 12	M 6 x 12	500
1245 6 16	M 6 x 16	HR 500
1245 6 20	M 6 x 20	HR 500
1245 6 25	M 6 x 25	HR 500
1245 6 30	M 6 x 30	HR 500
1245 6 35	M 6 x 35	HR 500
1245 6 40	M 6 x 40	HR 500
1245 6 45	M 6 x 45	200
1245 6 50	M 6 x 50	200
1245 6 60	M 6 x 60	200
1245 6 70	M 6 x 70	200
1245 6 80	M 6 x 80	200
1245 6 90	M 6 x 90	200
1245 8 12	M 8 x 12	100
1245 8 16	M 8 x 16	100

Specifications

Thread	dk	k	Drive
Dia.	max.	max.	PZ
mm	mm	mm	
M 2	3.8	1.20	1
M 2.5	4.7	1.50	1
M 3	5.6	1.65	1
M 4	7.5	2.20	2
M 5	9.2	2.50	2
M 6	11.0	3.00	3
M 8	14.5	4.00	4
M 10	18.0	5.00	4

Article No.	Dimension	QTY
1245 8 20	M 8 x 20	100
1245 8 25	M 8 x 25	100
1245 8 30	M 8 x 30	100
1245 8 35	M 8 x 35	100
1245 8 40	M 8 x 40	100
1245 8 45	M 8 x 45	100
1245 8 50	M 8 x 50	100
1245 8 60	M 8 x 60	100
1245 8 70	M 8 x 70	100
1245 8 80	M 8 x 80	100
1245 10 16	M 10 x 16	100
1245 10 20	M 10 x 20	100
1245 10 25	M 10 x 25	100
1245 10 30	M 10 x 30	100
1245 10 35	M 10 x 35	100
1245 10 40	M 10 x 40	100
1245 10 45	M 10 x 45	100
1245 10 50	M 10 x 50	100
1245 10 60	M 10 x 60	100

Raised Countersunk Head Screws DIN 966, A2



- In compliance with ISO 7047
- Phillips drive



Article No.	Dimension	QTY
1255 25 6	M 2,5 x 6	500
1255 25 8	M 2,5 x 8	500
1255 25 10	M 2,5 x 10	500
1255 25 12	M 2,5 x 12	500
1255 25 16	M 2,5 x 16	500
1255 3 5	M 3 x 5	500
1255 3 6	M 3 x 6	500
1255 3 8	M 3 x 8	500
1255 3 10	M 3 x 10	500
1255 3 12	M 3 x 12	500
1255 3 14	M 3 x 14	500
1255 3 16	M 3 x 16	500
1255 3 18	M 3 x 18	500
1255 3 20	M 3 x 20	500
1255 3 22	M 3 x 22	500
1255 3 25	M 3 x 25	500
1255 3 30	M 3 x 30	500
1255 4 6	M 4 x 6	HR 500
1255 4 8	M 4 x 8	HR 500
1255 4 10	M 4 x 10	HR 500
1255 4 12	M 4 x 12	HR 500
1255 4 14	M 4 x 14	500
1255 4 16	M 4 x 16	HR 500
1255 4 18	M 4 x 18	500
1255 4 20	M 4 x 20	HR 500
1255 4 22	M 4 x 22	500
1255 4 25	M 4 x 25	HR 500
1255 4 30	M 4 x 30	HR 500
1255 4 35	M 4 x 35	HR 500

(d thread dia. x length)

Article No.	Dimension	QTY
1255 4 40	M 4 x 40	HR 500
1255 5 6	M 5 x 6	500
1255 5 8	M 5 x 8	500
1255 5 10	M 5 x 10	HR 500
1255 5 12	M 5 x 12	HR 500
1255 5 14	M 5 x 14	500
1255 5 16	M 5 x 16	HR 500
1255 5 18	M 5 x 18	H 500
1255 5 20	M 5 x 20	HR 500
1255 5 22	M 5 x 22	500
1255 5 25	M 5 x 25	HR 500
1255 5 30	M 5 x 30	HR 500
1255 5 35	M 5 x 35	HR 500
1255 5 40	M 5 x 40	HR 500
1255 5 45	M 5 x 45	HR 500
1255 5 50	M 5 x 50	HR 500
1255 5 60	M 5 x 60	HR 500
1255 5 70	M 5 x 70	500
1255 6 10	M 6 x 10	HR 500
1255 6 12	M 6 x 12	HR 500
1255 6 16	M 6 x 16	HR 500
1255 6 20	M 6 x 20	HR 500
1255 6 25	M 6 x 25	HR 500
1255 6 30	M 6 x 30	HR 500
1255 6 35	M 6 x 35	HR 500
1255 6 40	M 6 x 40	HR 500
1255 6 45	M 6 x 45	HR 500
1255 6 50	M 6 x 50	HR 500
1255 6 60	M 6 x 60	100

Specifications

Technical drawing of a screw showing dimensions: d (thread dia.), dk (max. head dia.), f (flat width), k (max. height), and l (length).

Technical drawing of a Phillips drive screw head showing the cross shape.

Thread	dk	f	k	Drive
Dia.	max.		max.	PH
mm	mm	mm	mm	

M 2.5	4.7	0.60	1.50	1
M 3	5.6	0.75	1.65	1
M 4	7.5	1.00	2.20	2
M 5	9.2	1.25	2.50	2
M 6	11.0	1.50	3.00	3
M 8	14.5	2.00	4.00	4

Article No.	Dimension	QTY
1255 6 70	M 6 x 70	100
1255 6 80	M 6 x 80	100
1255 8 16	M 8 x 16	HR 500
1255 8 20	M 8 x 20	HR 500
1255 8 25	M 8 x 25	HR 500
1255 8 30	M 8 x 30	HR 500
1255 8 35	M 8 x 35	HR 500
1255 8 40	M 8 x 40	HR 500
1255 8 45	M 8 x 45	100
1255 8 50	M 8 x 50	100
1255 8 60	M 8 x 60	100

Slotted Cheese Head Machine Screws DIN 84, A2



- In compliance with ISO 1207
- Slotted

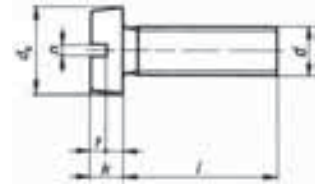


Article No.	Dimension	QTY
1205 2 3	M 2 x 3	1000
1205 2 4	M 2 x 4	1000
1205 2 5	M 2 x 5	1000
1205 2 6	M 2 x 6	1000
1205 2 8	M 2 x 8	1000
1205 2 10	M 2 x 10	1000
1205 2 12	M 2 x 12	1000
1205 2 14	M 2 x 14	1000
1205 2 16	M 2 x 16	1000
1205 2 18	M 2 x 18	1000
1205 2 20	M 2 x 20	1000
1205 2 25	M 2 x 25	500
1205 2 30	M 2 x 30	500
1205 25 3	M 2,5 x 3	1000
1205 25 4	M 2,5 x 4	1000
1205 25 5	M 2,5 x 5	1000
1205 25 6	M 2,5 x 6	1000
1205 25 8	M 2,5 x 8	1000
1205 25 10	M 2,5 x 10	1000
1205 25 12	M 2,5 x 12	1000
1205 25 14	M 2,5 x 14	1000
1205 25 16	M 2,5 x 16	1000
1205 25 18	M 2,5 x 18	1000
1205 25 20	M 2,5 x 20	1000
1205 25 22	M 2,5 x 22	500
1205 25 25	M 2,5 x 25	500
1205 25 30	M 2,5 x 30	500
1205 3 3	M 3 x 3	500
1205 3 4	M 3 x 4	500
1205 3 5	M 3 x 5	500
1205 3 6	M 3 x 6	500
1205 3 8	M 3 x 8	500
1205 3 10	M 3 x 10	HR 500
1205 3 12	M 3 x 12	HR 500
1205 3 14	M 3 x 14	500
1205 3 16	M 3 x 16	HR 500
1205 3 18	M 3 x 18	HR 500
1205 3 20	M 3 x 20	HR 500
1205 3 22	M 3 x 22	500
1205 3 25	M 3 x 25	HR 500
1205 3 28	M 3 x 28	500
1205 3 30	M 3 x 30	HR 500
1205 3 35	M 3 x 35	HR 500
1205 3 40	M 3 x 40	HR 500
1205 3 45	M 3 x 45	HR 500
1205 3 50	M 3 x 50	HR 500
1205 3 60	M 3 x 60	HR 500
1205 35 5	M 3,5 x 5	500
1205 35 6	M 3,5 x 6	500
1205 35 8	M 3,5 x 8	500
1205 35 10	M 3,5 x 10	500
1205 35 12	M 3,5 x 12	500
1205 35 16	M 3,5 x 16	500
1205 35 20	M 3,5 x 20	500
1205 35 25	M 3,5 x 25	500
1205 35 30	M 3,5 x 30	500
1205 35 35	M 3,5 x 35	500
1205 35 40	M 3,5 x 40	500

(d thread dia. x length)

Article No.	Dimension	QTY
1205 4 4	M 4 x 4	HR 500
1205 4 5	M 4 x 5	HR 500
1205 4 6	M 4 x 6	HR 500
1205 4 8	M 4 x 8	HR 500
1205 4 10	M 4 x 10	HR 500
1205 4 12	M 4 x 12	HR 500
1205 4 14	M 4 x 14	500
1205 4 16	M 4 x 16	HR 500
1205 4 18	M 4 x 18	500
1205 4 20	M 4 x 20	HR 500
1205 4 22	M 4 x 22	500
1205 4 25	M 4 x 25	HR 500
1205 4 28	M 4 x 28	500
1205 4 30	M 4 x 30	HR 500
1205 4 35	M 4 x 35	HR 500
1205 4 40	M 4 x 40	HR 500
1205 4 45	M 4 x 45	HR 500
1205 4 50	M 4 x 50	HR 500
1205 4 55	M 4 x 55	HR 500
1205 4 60	M 4 x 60	HR 500
1205 4 70	M 4 x 70	100
1205 4 80	M 4 x 80	100
1205 4 90	M 4 x 90	100
1205 4 100	M 4 x 100	100
1205 5 6	M 5 x 6	HR 500
1205 5 8	M 5 x 8	HR 500
1205 5 10	M 5 x 10	HR 500
1205 5 12	M 5 x 12	HR 500
1205 5 14	M 5 x 14	500
1205 5 16	M 5 x 16	HR 500
1205 5 18	M 5 x 18	HR 500
1205 5 20	M 5 x 20	HR 500
1205 5 22	M 5 x 22	500
1205 5 25	M 5 x 25	HR 500
1205 5 28	M 5 x 28	500
1205 5 30	M 5 x 30	HR 500
1205 5 35	M 5 x 35	HR 500
1205 5 40	M 5 x 40	HR 500
1205 5 45	M 5 x 45	HR 500
1205 5 50	M 5 x 50	HR 500
1205 5 55	M 5 x 55	H 300
1205 5 60	M 5 x 60	H 300
1205 5 70	M 5 x 70	H 300
1205 5 80	M 5 x 80	H 300
1205 5 90	M 5 x 90	100
1205 5 100	M 5 x 100	100
1205 6 8	M 6 x 8	HR 500
1205 6 10	M 6 x 10	HR 500
1205 6 12	M 6 x 12	HR 500
1205 6 14	M 6 x 14	500
1205 6 16	M 6 x 16	HR 500
1205 6 18	M 6 x 18	HR 500
1205 6 20	M 6 x 20	HR 500
1205 6 22	M 6 x 22	500
1205 6 25	M 6 x 25	HR 500
1205 6 30	M 6 x 30	HR 500
1205 6 35	M 6 x 35	HR 500

Specifications



Thread Dia.	dk	k	n max.	t min.
mm	mm	mm	mm	mm
M 2	3.8	1.3	0.70	0.60
M 2.5	4.5	1.6	0.80	0.70
M 3	5.5	2.0	1.00	0.85
M 3.5	6.0	2.4	1.00	1.00
M 4	7.0	2.6	1.51	1.10
M 5	8.5	3.3	1.51	1.30
M 6	10.0	3.9	1.91	1.60
M 8	13.0	5.0	2.31	2.00
M 10	16.0	6.0	2.81	2.40

Article No.	Dimension	QTY
1205 6 40	M 6 x 40	HR 500
1205 6 45	M 6 x 45	HR 500
1205 6 50	M 6 x 50	HR 500
1205 6 55	M 6 x 55	H 300
1205 6 60	M 6 x 60	H 300
1205 6 70	M 6 x 70	H 300
1205 6 80	M 6 x 80	H 300
1205 6 90	M 6 x 90	100
1205 6 100	M 6 x 100	100
1205 8 10	M 8 x 10	100
1205 8 12	M 8 x 12	100
1205 8 16	M 8 x 16	100
1205 8 20	M 8 x 20	HR 500
1205 8 25	M 8 x 25	HR 500
1205 8 30	M 8 x 30	HR 500
1205 8 35	M 8 x 35	HR 500
1205 8 40	M 8 x 40	HR 500
1205 8 45	M 8 x 45	HR 500
1205 8 50	M 8 x 50	HR 500
1205 8 60	M 8 x 60	H 300
1205 8 70	M 8 x 70	100
1205 8 80	M 8 x 80	100
1205 8 90	M 8 x 90	100
1205 8 100	M 8 x 100	100
1205 10 16	M 10 x 16	100
1205 10 20	M 10 x 20	100
1205 10 25	M 10 x 25	100
1205 10 30	M 10 x 30	100
1205 10 35	M 10 x 35	100
1205 10 40	M 10 x 40	100
1205 10 45	M 10 x 45	100
1205 10 50	M 10 x 50	100
1205 10 60	M 10 x 60	100
1205 10 70	M 10 x 70	50
1205 10 80	M 10 x 80	50
1205 10 90	M 10 x 90	50
1205 10 100	M 10 x 100	50

Slotted Countersunk Head Machine Screws DIN963, A2

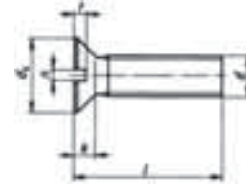
- Corresponds to ISO 2009
- Slotted



Article No.	Dimension	QTY
1215 2 4	M 2 x 4	1000
1215 2 5	M 2 x 5	1000
1215 2 6	M 2 x 6	1000
1215 2 8	M 2 x 8	1000
1215 2 10	M 2 x 10	1000
1215 2 12	M 2 x 12	1000
1215 2 16	M 2 x 16	1000
1215 2 20	M 2 x 20	1000
1215 2 25	M 2 x 25	1000
1215 25 4	M 2,5 x 4	1000
1215 25 5	M 2,5 x 5	1000
1215 25 6	M 2,5 x 6	1000
1215 25 8	M 2,5 x 8	1000
1215 25 10	M 2,5 x 10	1000
1215 25 12	M 2,5 x 12	1000
1215 25 14	M 2,5 x 14	1000
1215 25 16	M 2,5 x 16	1000
1215 25 20	M 2,5 x 20	1000
1215 25 25	M 2,5 x 25	500
1215 3 4	M 3 x 4	500
1215 3 5	M 3 x 5	500
1215 3 6	M 3 x 6	HR 500
1215 3 8	M 3 x 8	HR 500
1215 3 10	M 3 x 10	HR 500
1215 3 12	M 3 x 12	HR 500
1215 3 14	M 3 x 14	500
1215 3 16	M 3 x 16	HR 500
1215 3 18	M 3 x 18	500
1215 3 20	M 3 x 20	HR 500
1215 3 22	M 3 x 22	500
1215 3 25	M 3 x 25	HR 500
1215 3 30	M 3 x 30	HR 500
1215 3 35	M 3 x 35	HR 500
1215 3 40	M 3 x 40	HR 500
1215 3 45	M 3 x 45	500
1215 3 50	M 3 x 50	500
1215 3 60	M 3 x 60	500
1215 35 6	M 3,5 x 6	500
1215 35 8	M 3,5 x 8	500
1215 35 10	M 3,5 x 10	500
1215 35 12	M 3,5 x 12	500
1215 35 16	M 3,5 x 16	500
1215 35 20	M 3,5 x 20	500
1215 4 5	M 4 x 5	500
1215 4 6	M 4 x 6	HR 500
1215 4 8	M 4 x 8	HR 500
1215 4 10	M 4 x 10	HR 500
1215 4 12	M 4 x 12	HR 500
1215 4 14	M 4 x 14	500
1215 4 16	M 4 x 16	HR 500
1215 4 18	M 4 x 18	500
1215 4 20	M 4 x 20	HR 500
1215 4 22	M 4 x 22	500
1215 4 25	M 4 x 25	HR 500
1215 4 30	M 4 x 30	HR 500
1215 4 35	M 4 x 35	HR 500
1215 4 40	M 4 x 40	HR 500
1215 4 45	M 4 x 45	HR 500
1215 4 50	M 4 x 50	HR 500
1215 4 60	M 4 x 60	500
1215 4 70	M 4 x 70	500
1215 5 6	M 5 x 6	HR 500
1215 5 8	M 5 x 8	HR 500
1215 5 10	M 5 x 10	HR 500
1215 5 12	M 5 x 12	HR 500
1215 5 14	M 5 x 14	HR 500
1215 5 16	M 5 x 16	HR 500
1215 5 18	M 5 x 18	HR 500
1215 5 20	M 5 x 20	HR 500

Article No.	Dimension	QTY
1215 5 22	M 5 x 22	200
1215 5 25	M 5 x 25	HR 500
1215 5 30	M 5 x 30	HR 500
1215 5 35	M 5 x 35	HR 500
1215 5 40	M 5 x 40	HR 500
1215 5 45	M 5 x 45	H 300
1215 5 50	M 5 x 50	H 300
1215 5 55	M 5 x 55	H 300
1215 5 60	M 5 x 60	H 300
1215 5 70	M 5 x 70	H 300
1215 5 80	M 5 x 80	H 300
1215 5 90	M 5 x 90	H 300
1215 5 100	M 5 x 100	H 300
1215 6 8	M 6 x 8	HR 500
1215 6 10	M 6 x 10	HR 500
1215 6 12	M 6 x 12	HR 500
1215 6 14	M 6 x 14	500
1215 6 16	M 6 x 16	HR 500
1215 6 18	M 6 x 18	500
1215 6 20	M 6 x 20	HR 500
1215 6 22	M 6 x 22	H 300
1215 6 25	M 6 x 25	H 300
1215 6 30	M 6 x 30	H 300
1215 6 35	M 6 x 35	H 300
1215 6 40	M 6 x 40	H 300
1215 6 45	M 6 x 45	H 300
1215 6 50	M 6 x 50	H 300
1215 6 55	M 6 x 55	H 300
1215 6 60	M 6 x 60	H 300
1215 6 70	M 6 x 70	H 300
1215 6 80	M 6 x 80	H 300
1215 6 90	M 6 x 90	H 300
1215 6 100	M 6 x 100	H 300
1215 6 110	M 6 x 110	H 300
1215 6 120	M 6 x 120	H 300
1215 8 10	M 8 x 10	H 300
1215 8 12	M 8 x 12	H 300
1215 8 14	M 8 x 14	H 300
1215 8 16	M 8 x 16	H 300
1215 8 18	M 8 x 18	H 300
1215 8 20	M 8 x 20	H 300
1215 8 22	M 8 x 22	H 300
1215 8 25	M 8 x 25	H 300
1215 8 30	M 8 x 30	H 300
1215 8 35	M 8 x 35	H 300
1215 8 40	M 8 x 40	H 300
1215 8 45	M 8 x 45	H 300
1215 8 50	M 8 x 50	H 300
1215 8 55	M 8 x 55	H 300
1215 8 60	M 8 x 60	100
1215 8 70	M 8 x 70	100
1215 8 80	M 8 x 80	100
1215 8 90	M 8 x 90	100
1215 8 100	M 8 x 100	100
1215 8 110	M 8 x 110	100
1215 8 120	M 8 x 120	100
1215 10 16	M 10 x 16	fH 300
1215 10 20	M 10 x 20	fH 300
1215 10 25	M 10 x 25	fH 300
1215 10 30	M 10 x 30	fH 300
1215 10 35	M 10 x 35	fH 300
1215 10 40	M 10 x 40	fH 300
1215 10 45	M 10 x 45	fH 300
1215 10 50	M 10 x 50	fH 300
1215 10 55	M 10 x 55	fH 300
1215 10 60	M 10 x 60	fH 300
1215 10 70	M 10 x 70	50
1215 10 80	M 10 x 80	50
1215 10 90	M 10 x 90	50

Specifications



Thread	dk	k	n	t
Dia.	max.	max.		max.
mm	mm	mm	mm	mm
M 2	3.8	1.20	0.5	0.60
M 2.5	4.7	1.50	0.6	0.70
M 3	5.6	1.65	0.8	0.85
M 3.5	6.5	1.93	0.8	1.00
M 4	7.5	2.20	1.0	1.10
M 5	9.2	2.50	1.2	1.30
M 6	11.0	3.00	1.6	1.60
M 8	14.5	4.00	2.0	2.10
M 10	18.0	5.00	2.5	2.60
M 12	22.0	6.00	3.0	3.00
M 14	25.0	7.00	3.0	2.80
M 16	29.0	8.00	4.0	3.20
M 18	33.0	9.00	4.0	3.60
M 20	36.0	10.00	5.0	4.00

Article No.	Dimension	QTY
1215 10 100	M 10 x 100	50
1215 10 110	M 10 x 110	50
1215 10 120	M 10 x 120	50
1215 12 20	M 12 x 20	f 100
1215 12 25	M 12 x 25	f 100
1215 12 30	M 12 x 30	f 100
1215 12 35	M 12 x 35	f 100
1215 12 40	M 12 x 40	f 100
1215 12 45	M 12 x 45	50
1215 12 50	M 12 x 50	50
1215 12 55	M 12 x 55	50
1215 12 60	M 12 x 60	50
1215 12 70	M 12 x 70	50
1215 12 80	M 12 x 80	50
1215 12 90	M 12 x 90	50
1215 12 100	M 12 x 100	50
1215 14 20	M 14 x 20	50
1215 14 25	M 14 x 25	50
1215 14 30	M 14 x 30	50
1215 14 35	M 14 x 35	50
1215 14 40	M 14 x 40	50
1215 14 45	M 14 x 45	50
1215 14 50	M 14 x 50	50
1215 14 55	M 14 x 55	50
1215 14 60	M 14 x 60	50
1215 14 70	M 14 x 70	50
1215 14 80	M 14 x 80	50
1215 14 90	M 14 x 90	50
1215 14 100	M 14 x 100	25
1215 14 110	M 14 x 110	25
1215 14 120	M 14 x 120	25
1215 14 130	M 14 x 130	25
1215 14 140	M 14 x 140	25
1215 14 150	M 14 x 150	25
1215 16 20	M 16 x 20	50
1215 16 25	M 16 x 25	50
1215 16 30	M 16 x 30	50
1215 16 35	M 16 x 35	50
1215 16 40	M 16 x 40	50
1215 16 45	M 16 x 45	50
1215 16 50	M 16 x 50	50
1215 16 55	M 16 x 55	50
1215 16 60	M 16 x 60	50

Slotted Countersunk Head Machine Screws DIN963, A2

- In compliance with ISO 2009
- Slotted

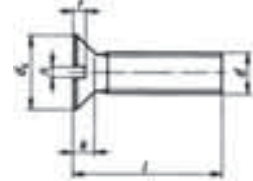


Article No.	Dimension	QTY
1215 16 70	M 16 x 70	50
1215 16 80	M 16 x 80	50
1215 16 90	M 16 x 90	50
1215 16 100	M 16 x 100	25
1215 16 110	M 16 x 110	25
1215 16 120	M 16 x 120	25
1215 16 130	M 16 x 130	25
1215 16 140	M 16 x 140	25
1215 16 150	M 16 x 150	25
1215 18 50	M 18 x 50	25
1215 18 55	M 18 x 55	25
1215 18 60	M 18 x 60	25
1215 18 70	M 18 x 70	25
1215 18 80	M 18 x 80	25
1215 18 90	M 18 x 90	25
1215 18 100	M 18 x 100	10
1215 18 110	M 18 x 110	10

(d thread dia. x length)

Article No.	Dimension	QTY
1215 18 120	M 18 x 120	10
1215 18 130	M 18 x 130	10
1215 18 140	M 18 x 140	10
1215 18 150	M 18 x 150	10
1215 20 50	M 20 x 50	25
1215 20 55	M 20 x 55	25
1215 20 60	M 20 x 60	25
1215 20 70	M 20 x 70	25
1215 20 80	M 20 x 80	25
1215 20 90	M 20 x 90	25
1215 20 100	M 20 x 100	10
1215 20 110	M 20 x 110	10
1215 20 120	M 20 x 120	10
1215 20 130	M 20 x 130	10
1215 20 140	M 20 x 140	10
1215 20 150	M 20 x 150	10

Specifications



Thread	dk	k	n	t
Dia.	max.	max.		max.
mm	mm	mm	mm	mm
M 2	3.8	1.20	0.5	0.60
M 2.5	4.7	1.50	0.6	0.70
M 3	5.6	1.65	0.8	0.85
M 3.5	6.5	1.93	0.8	1.00
M 4	7.5	2.20	1.0	1.10
M 5	9.2	2.50	1.2	1.30
M 6	11.0	3.00	1.6	1.60
M 8	14.5	4.00	2.0	2.10
M 10	18.0	5.00	2.5	2.60
M 12	22.0	6.00	3.0	3.00
M 14	25.0	7.00	3.0	2.80
M 16	29.0	8.00	4.0	3.20
M 18	33.0	9.00	4.0	3.60
M 20	36.0	10.00	5.0	4.00

Sheet Metal Screws DIN 7981 B, A2

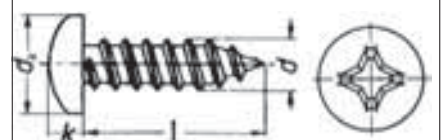
- In compliance with ISO 7049
- Phillips drive



Article No.	Dimension	QTY
1315 22 65	2,2 x 6,5	HR 1000
1315 22 95	2,2 x 9,5	HR 1000
1315 22 13	2,2 x 13	HR 1000
1315 22 16	2,2 x 16	1000
1315 22 19	2,2 x 19	1000
1315 22 22	2,2 x 22	1000
1315 22 25	2,2 x 25	1000
1315 29 65	2,9 x 6,5	HR 1000
1315 29 95	2,9 x 9,5	HR 1000
1315 29 13	2,9 x 13	HR 1000
1315 29 16	2,9 x 16	HR 1000
1315 29 19	2,9 x 19	HR 1000
1315 29 22	2,9 x 22	HR 1000
1315 29 25	2,9 x 25	HR 1000
1315 35 65	3,5 x 6,5	HR 1000
1315 35 95	3,5 x 9,5	HR 1000
1315 35 13	3,5 x 13	HR 1000
1315 35 16	3,5 x 16	HR 1000
1315 35 19	3,5 x 19	HR 1000
1315 35 22	3,5 x 22	HR 1000
1315 35 25	3,5 x 25	HR 1000
1315 35 32	3,5 x 32	HR 1000
1315 35 38	3,5 x 38	HR 1000
1315 39 65	3,9 x 6,5	HR 1000
1315 39 95	3,9 x 9,5	HR 1000
1315 39 13	3,9 x 13	HR 1000
1315 39 16	3,9 x 16	HR 1000
1315 39 19	3,9 x 19	HR 1000
1315 39 22	3,9 x 22	HR 1000
1315 39 25	3,9 x 25	HR 1000
1315 39 32	3,9 x 32	HR 1000
1315 39 38	3,9 x 38	HR 1000
1315 39 45	3,9 x 45	HR 1000
1315 39 50	3,9 x 50	HR 1000
1315 42 95	4,2 x 9,5	HR 1000
1315 42 13	4,2 x 13	HR 1000
1315 42 16	4,2 x 16	HR 1000

Article No.	Dimension	QTY
1315 42 19	4,2 x 19	HR 1000
1315 42 22	4,2 x 22	HR 1000
1315 42 25	4,2 x 25	HR 1000
1315 42 32	4,2 x 32	HR 1000
1315 42 38	4,2 x 38	HR 1000
1315 42 45	4,2 x 45	HR 1000
1315 42 50	4,2 x 50	HR 1000
1315 42 60	4,2 x 60	H 300
1315 42 70	4,2 x 70	H 300
1315 48 95	4,8 x 9,5	HR 1000
1315 48 13	4,8 x 13	HR 1000
1315 48 16	4,8 x 16	HR 1000
1315 48 19	4,8 x 19	HR 1000
1315 48 22	4,8 x 22	HR 1000
1315 48 25	4,8 x 25	HR 1000
1315 48 32	4,8 x 32	HR 1000
1315 48 38	4,8 x 38	HR 500
1315 48 45	4,8 x 45	HR 500
1315 48 50	4,8 x 50	HR 500
1315 48 60	4,8 x 60	100
1315 48 70	4,8 x 70	100
1315 48 80	4,8 x 80	100
1315 48 90	4,8 x 90	100
1315 48 100	4,8 x 100	100
1315 55 13	5,5 x 13	HR 500
1315 55 16	5,5 x 16	HR 500
1315 55 19	5,5 x 19	HR 500
1315 55 22	5,5 x 22	HR 500
1315 55 25	5,5 x 25	HR 500
1315 55 32	5,5 x 32	HR 500
1315 55 38	5,5 x 38	HR 500
1315 55 45	5,5 x 45	HR 500
1315 55 50	5,5 x 50	HR 500
1315 55 55	5,5 x 55	100
1315 55 60	5,5 x 60	100
1315 55 70	5,5 x 70	100
1315 55 80	5,5 x 80	100

Specifications



Thread	dk	k	Drive
Dia.	max.	max.	PH
mm	mm	mm	
2.2	4.2	1.80	1
2.9	5.6	2.20	1
3.5	6.9	2.60	2
3.9	7.5	2.80	2
4.2	8.2	3.05	2
4.8	9.5	3.55	2
5.5	10.8	3.95	3
6.3	12.5	4.55	3

Article No.	Dimension	QTY
1315 55 90	5,5 x 90	200
1315 55 100	5,5 x 100	200
1315 63 13	6,3 x 13	HR 500
1315 63 16	6,3 x 16	HR 500
1315 63 19	6,3 x 19	HR 500
1315 63 22	6,3 x 22	HR 500
1315 63 25	6,3 x 25	HR 500
1315 63 32	6,3 x 32	HR 500
1315 63 38	6,3 x 38	HR 500
1315 63 45	6,3 x 45	HR 500
1315 63 50	6,3 x 50	HR 500
1315 63 60	6,3 x 60	100
1315 63 70	6,3 x 70	50
1315 63 80	6,3 x 80	100
1315 63 90	6,3 x 90	100
1315 63 100	6,3 x 100	100

Sheet Metal Screws w. Countersunk HD DIN7982, A2

- In compliance with ISO 7050
- Phillips drive



Article No.	Dimension	QTY
1325 22 65	2,2 x 6,5	1000
1325 22 95	2,2 x 9,5	1000
1325 22 13	2,2 x 13	100
1325 22 16	2,2 x 16	100
1325 22 19	2,2 x 19	1000
1325 22 22	2,2 x 22	1000
1325 22 25	2,2 x 25	1000
1325 29 65	2,9 x 6,5	HR 1000
1325 29 95	2,9 x 9,5	HR 1000
1325 29 13	2,9 x 13	HR 1000
1325 29 16	2,9 x 16	HR 1000
1325 29 19	2,9 x 19	HR 1000
1325 29 22	2,9 x 22	HR 1000
1325 29 25	2,9 x 25	HR 1000
1325 35 65	3,5 x 6,5	HR 1000
1325 35 95	3,5 x 9,5	HR 1000
1325 35 13	3,5 x 13	HR 1000
1325 35 16	3,5 x 16	HR 1000
1325 35 19	3,5 x 19	HR 1000
1325 35 22	3,5 x 22	HR 1000
1325 35 25	3,5 x 25	HR 1000
1325 35 32	3,5 x 32	HR 1000
1325 35 38	3,5 x 38	HR 1000
1325 39 65	3,9 x 6,5	HR 1000
1325 39 95	3,9 x 9,5	HR 1000
1325 39 13	3,9 x 13	HR 1000
1325 39 16	3,9 x 16	HR 1000
1325 39 19	3,9 x 19	HR 1000
1325 39 22	3,9 x 22	HR 1000
1325 39 25	3,9 x 25	HR 1000
1325 39 32	3,9 x 32	HR 1000
1325 39 38	3,9 x 38	HR 1000
1325 39 45	3,9 x 45	HR 1000
1325 39 50	3,9 x 50	HR 1000
1325 42 95	4,2 x 9,5	HR 1000
1325 42 13	4,2 x 13	HR 1000
1325 42 16	4,2 x 16	HR 1000

(d thread dia. x length)

Article No.	Dimension	QTY
1325 42 19	4,2 x 19	HR 1000
1325 42 22	4,2 x 22	HR 1000
1325 42 25	4,2 x 25	HR 1000
1325 42 32	4,2 x 32	HR 1000
1325 42 38	4,2 x 38	HR 1000
1325 42 45	4,2 x 45	HR 1000
1325 42 50	4,2 x 50	HR 1000
1325 42 60	4,2 x 60	HRF 1000
1325 42 70	4,2 x 70	HR 1000
1325 48 95	4,8 x 9,5	HR 1000
1325 48 13	4,8 x 13	HR 1000
1325 48 16	4,8 x 16	HR 1000
1325 48 19	4,8 x 19	HR 1000
1325 48 22	4,8 x 22	HR 1000
1325 48 25	4,8 x 25	HR 1000
1325 48 32	4,8 x 32	HR 1000
1325 48 38	4,8 x 38	HR 500
1325 48 45	4,8 x 45	HR 500
1325 48 50	4,8 x 50	100
1325 48 60	4,8 x 60	100
1325 48 70	4,8 x 70	100
1325 48 80	4,8 x 80	100
1325 48 90	4,8 x 90	100
1325 48 100	4,8 x 100	100
1325 55 13	5,5 x 13	HR 500
1325 55 16	5,5 x 16	HR 500
1325 55 19	5,5 x 19	HR 500
1325 55 22	5,5 x 22	HR 500
1325 55 25	5,5 x 25	HR 500
1325 55 32	5,5 x 32	HR 500
1325 55 38	5,5 x 38	HR 500
1325 55 45	5,5 x 45	HR 500
1325 55 50	5,5 x 50	HR 500
1325 55 55	5,5 x 55	100
1325 55 60	5,5 x 60	100
1325 55 70	5,5 x 70	100
1325 55 80	5,5 x 80	100

Specifications

Thread	dk	k	Drive
Dia.	max.		PH
mm	mm	mm	
2.2	4.3	1.3	1
2.9	5.5	1.7	1
3.5	6.8	2.1	2
3.9	7.5	2.3	2
4.2	8.1	2.5	2
4.8	9.5	3.0	2
5.5	10.8	3.4	3
6.3	12.4	3.8	3

Article No.	Dimension	QTY
1325 55 90	5,5 x 90	100
1325 55 100	5,5 x 100	100
1325 63 13	6,3 x 13	HR 500
1325 63 16	6,3 x 16	HR 500
1325 63 19	6,3 x 19	HR 500
1325 63 22	6,3 x 22	HR 500
1325 63 25	6,3 x 25	HR 500
1325 63 32	6,3 x 32	HR 500
1325 63 38	6,3 x 38	100
1325 63 45	6,3 x 45	100
1325 63 50	6,3 x 50	100
1325 63 60	6,3 x 60	100
1325 63 70	6,3 x 70	100
1325 63 80	6,3 x 80	100
1325 63 90	6,3 x 90	100
1325 63 100	6,3 x 100	100

Sheet Metal Screws DIN 7983 B, Stainless Steel A2

- In compliance with ISO 7051
- Phillips drive

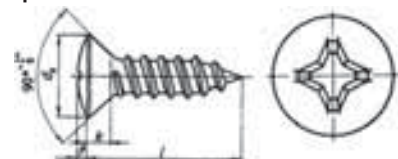


Article No.	Dimension	QTY
1335 22 65	2,2 x 6,5	1000
1335 22 95	2,2 x 9,5	1000
1335 22 13	2,2 x 13	1000
1335 22 16	2,2 x 16	1000
1335 22 19	2,2 x 19	1000
1335 22 22	2,2 x 22	1000
1335 22 25	2,2 x 25	1000
1335 29 65	2,9 x 6,5	HR 1000
1335 29 95	2,9 x 9,5	HR 1000
1335 29 13	2,9 x 13	HR 1000
1335 29 16	2,9 x 16	HR 1000
1335 29 19	2,9 x 19	HR 1000
1335 29 22	2,9 x 22	HR 1000
1335 29 25	2,9 x 25	HR 1000
1335 35 65	3,5 x 6,5	HR 1000
1335 35 95	3,5 x 9,5	HR 1000
1335 35 13	3,5 x 13	HR 1000
1335 35 16	3,5 x 16	HR 1000
1335 35 19	3,5 x 19	HR 1000
1335 35 22	3,5 x 22	HR 1000
1335 35 25	3,5 x 25	HR 1000
1335 35 32	3,5 x 32	HR 1000
1335 35 38	3,5 x 38	HR 1000
1335 39 65	3,9 x 6,5	HR 1000
1335 39 95	3,9 x 9,5	HR 1000
1335 39 13	3,9 x 13	HR 1000
1335 39 16	3,9 x 16	HR 1000
1335 39 19	3,9 x 19	HR 1000
1335 39 22	3,9 x 22	HR 1000
1335 39 25	3,9 x 25	HR 1000
1335 39 32	3,9 x 32	HZ 1000
1335 39 38	3,9 x 38	HR 1000
1335 39 45	3,9 x 45	HR 1000
1335 39 50	3,9 x 50	HR 1000
1335 42 95	4,2 x 9,5	HR 1000
1335 42 13	4,2 x 13	HR 1000
1335 42 16	4,2 x 16	HR 1000

(d thread dia. x length)

Article No.	Dimension	QTY
1335 42 19	4,2 x 19	HR 1000
1335 42 22	4,2 x 22	HR 1000
1335 42 25	4,2 x 25	HR 1000
1335 42 32	4,2 x 32	HR 1000
1335 42 38	4,2 x 38	HR 1000
1335 42 45	4,2 x 45	HR 1000
1335 42 50	4,2 x 50	HR 1000
1335 42 60	4,2 x 60	100
1335 42 70	4,2 x 70	100
1335 48 95	4,8 x 9,5	HR 1000
1335 48 13	4,8 x 13	HR 1000
1335 48 16	4,8 x 16	HR 1000
1335 48 19	4,8 x 19	HR 1000
1335 48 22	4,8 x 22	HR 1000
1335 48 25	4,8 x 25	HR 1000
1335 48 32	4,8 x 32	HR 1000
1335 48 38	4,8 x 38	HR 500
1335 48 45	4,8 x 45	HR 500
1335 48 50	4,8 x 50	HR 500
1335 48 60	4,8 x 60	100
1335 48 70	4,8 x 70	100
1335 48 80	4,8 x 80	100
1335 48 90	4,8 x 90	100
1335 48 100	4,8 x 100	100
1335 55 13	5,5 x 13	HR 500
1335 55 16	5,5 x 16	HR 500
1335 55 19	5,5 x 19	HR 500
1335 55 22	5,5 x 22	HR 500
1335 55 25	5,5 x 25	HR 500
1335 55 32	5,5 x 32	HR 500
1335 55 38	5,5 x 38	HR 500
1335 55 45	5,5 x 45	HR 500
1335 55 50	5,5 x 50	HR 500
1335 55 60	5,5 x 60	100
1335 55 70	5,5 x 70	100
1335 55 80	5,5 x 80	100
1335 55 90	5,5 x 90	100

Specifications



Thread Dia. mm	dk max. mm	f mm	k mm	Drive PH
2.2	4.3	0.7	1.3	1
2.9	5.5	0.9	1.7	1
3.5	6.8	1.2	2.1	2
3.9	7.5	1.3	2.3	2
4.2	8.1	1.4	2.5	2
4.8	9.5	1.5	3.0	2
5.5	10.8	1.7	3.4	3
6.3	12.4	2.0	3.8	3

Article No.	Dimension	QTY
1335 55 100	5,5 x 100	100
1335 63 13	6,3 x 13	HR 500
1335 63 16	6,3 x 16	HR 500
1335 63 19	6,3 x 19	HR 500
1335 63 22	6,3 x 22	HR 500
1335 63 25	6,3 x 25	HR 500
1335 63 32	6,3 x 32	HR 500
1335 63 38	6,3 x 38	HR 500
1335 63 45	6,3 x 45	HR 500
1335 63 50	6,3 x 50	HR 500
1335 63 60	6,3 x 60	100
1335 63 70	6,3 x 70	100
1335 63 80	6,3 x 80	100
1335 63 90	6,3 x 90	100
1335 63 100	6,3 x 100	100

Hex HD Sheet Met. Screws DIN7976, Stainless St.A2

- In compliance with ISO 1479



Article No.	Dimension	QTY
1305 22 95	2,2 x 9,5	1000
1305 22 13	2,2 x 13	1000
1305 22 16	2,2 x 16	1000
1305 22 19	2,2 x 19	1000
1305 22 22	2,2 x 22	1000
1305 22 25	2,2 x 25	1000
1305 29 95	2,9 x 9,5	1000
1305 29 13	2,9 x 13	1000
1305 29 16	2,9 x 16	1000
1305 29 19	2,9 x 19	1000
1305 29 22	2,9 x 22	1000
1305 29 25	2,9 x 25	1000
1305 29 32	2,9 x 32	1000
1305 29 45	2,9 x 45	1000
1305 35 95	3,5 x 9,5	1000
1305 35 13	3,5 x 13	1000
1305 35 16	3,5 x 16	1000
1305 35 19	3,5 x 19	1000
1305 35 22	3,5 x 22	1000
1305 35 25	3,5 x 25	1000
1305 35 32	3,5 x 32	1000
1305 35 38	3,5 x 38	1000
1305 35 45	3,5 x 45	1000
1305 35 50	3,5 x 50	1000
1305 39 95	3,9 x 9,5	1000
1305 39 13	3,9 x 13	1000
1305 39 16	3,9 x 16	1000
1305 39 19	3,9 x 19	1000
1305 39 22	3,9 x 22	1000
1305 39 25	3,9 x 25	1000
1305 39 32	3,9 x 32	1000
1305 39 38	3,9 x 38	1000
1305 39 45	3,9 x 45	500
1305 39 50	3,9 x 50	500
1305 39 60	3,9 x 60	500
1305 42 95	4,2 x 9,5	HR 1000
1305 42 13	4,2 x 13	HR 1000
1305 42 16	4,2 x 16	HR 1000
1305 42 19	4,2 x 19	HR 1000
1305 42 22	4,2 x 22	HR 1000
1305 42 25	4,2 x 25	HR 1000
1305 42 32	4,2 x 32	F 1000
1305 42 38	4,2 x 38	F 1000

(d thread dia. x length)

Article No.	Dimension	QTY
1305 42 45	4,2 x 45	500
1305 42 50	4,2 x 50	100
1305 42 60	4,2 x 60	100
1305 42 70	4,2 x 70	100
1305 48 95	4,8 x 9,5	HR 1000
1305 48 13	4,8 x 13	HR 500
1305 48 16	4,8 x 16	HR 500
1305 48 19	4,8 x 19	HR 500
1305 48 22	4,8 x 22	HR 500
1305 48 25	4,8 x 25	HR 500
1305 48 32	4,8 x 32	HR 500
1305 48 38	4,8 x 38	HR 500
1305 48 45	4,8 x 45	HR 500
1305 48 50	4,8 x 50	HR 500
1305 48 60	4,8 x 60	100
1305 48 70	4,8 x 70	100
1305 48 80	4,8 x 80	100
1305 48 90	4,8 x 90	100
1305 48 100	4,8 x 100	100
1305 48 110	4,8 x 110	100
1305 48 120	4,8 x 120	100
1305 55 13	5,5 x 13	HR 500
1305 55 16	5,5 x 16	WR 500
1305 55 19	5,5 x 19	HR 500
1305 55 22	5,5 x 22	HR 500
1305 55 25	5,5 x 25	HR 500
1305 55 32	5,5 x 32	HR 500
1305 55 38	5,5 x 38	HR 500
1305 55 45	5,5 x 45	HR 500
1305 55 50	5,5 x 50	HR 500
1305 55 60	5,5 x 60	100
1305 55 70	5,5 x 70	100
1305 55 80	5,5 x 80	100
1305 55 90	5,5 x 90	100
1305 55 100	5,5 x 100	100
1305 55 110	5,5 x 110	100
1305 55 120	5,5 x 120	100
1305 63 13	6,3 x 13	HR 500
1305 63 16	6,3 x 16	HR 500
1305 63 19	6,3 x 19	HR 500
1305 63 22	6,3 x 22	HR 500
1305 63 25	6,3 x 25	HR 500
1305 63 32	6,3 x 32	HR 500

Specifications			
Thread Dia. mm	k mm	s (WS) mm	
2	1.3	3	
2.9	1.5	5	
3.5	2.3	5.5	
3.9	2.3	7	
4.2	2.8	7	
4.8	3.0	8	
5.5	4.0	8	
6.3	4.8	10	
8.0	5.8	13	

Article No.	Dimension	QTY
1305 63 38	6,3 x 38	HR 500
1305 63 45	6,3 x 45	HR 500
1305 63 50	6,3 x 50	100
1305 63 60	6,3 x 60	100
1305 63 70	6,3 x 70	100
1305 63 80	6,3 x 80	100
1305 63 90	6,3 x 90	100
1305 63 100	6,3 x 100	100
1305 63 110	6,3 x 110	100
1305 63 120	6,3 x 120	100
1305 8 16	8 x 16	H 300
1305 8 19	8 x 19	H 300
1305 8 22	8 x 22	H 300
1305 8 25	8 x 25	H 300
1305 8 32	8 x 32	H 300
1305 8 38	8 x 38	H 300
1305 8 45	8 x 45	100
1305 8 50	8 x 50	100
1305 8 60	8 x 60	200
1305 8 70	8 x 70	100

Dome Head Self-Tapping Screws DIN 7504 M, A2



- Stainless Steel A2
- Phillips drive



Article No.	Dimension	QTY
1355 35 13	3,5 x 13	HR 1000
1355 35 16	3,5 x 16	HR 1000
1355 35 19	3,5 x 19	HR 1000
1355 35 22	3,5 x 22	HR 1000
1355 35 25	3,5 x 25	HR 1000
1355 39 13	3,9 x 13	HR 1000
1355 39 16	3,9 x 16	HR 1000
1355 39 19	3,9 x 19	HR 1000
1355 39 22	3,9 x 22	HR 1000
1355 39 25	3,9 x 25	HR 1000
1355 42 13	4,2 x 13	HR 1000
1355 42 16	4,2 x 16	HR 1000

(d thread dia. x length)

Article No.	Dimension	QTY
1355 42 19	4,2 x 19	HR 1000
1355 42 22	4,2 x 22	HR 1000
1355 42 25	4,2 x 25	HR 1000
1355 48 13	4,8 x 13	HR 1000
1355 48 16	4,8 x 16	HR 1000
1355 48 19	4,8 x 19	HR 1000
1355 48 22	4,8 x 22	HR 1000
1355 48 25	4,8 x 25	HR 1000
1355 48 32	4,8 x 32	HR 1000
1355 48 38	4,8 x 38	HR 1000
1355 48 45	4,8 x 45	HR 1000

Specifications				
Thread Dia. mm	dk max. mm	k max. mm	Drive (PH) mm	Sheet-thickness mm
3.5	6.9	2.6	2	0.70 - 2.25
3.9	7.5	2.8	2	0.70 - 2.40
4.2	8.2	3.05	2	1.75 - 3.00
4.8	9.5	3.55	2	1.75 - 4.40

Hex Nuts DIN 934, Stainless Steel A2

- In compliance with ISO 4032

Article No.	Dimension	QTY
2005 2	M 2	RF 1000
2005 25	M 2,5	RF 1000
2005 3	M 3	HRF 1000
2005 35	M 3,5	RF 1000
2005 4	M 4	HRF 1000
2005 5	M 5	HRF 1000
2005 6	M 6	HRF 1000
2005 7	M 7	HR 500
2005 8	M 8	HRF 1000
2005 10	M 10	HR 500
2005 12	M 12	fH 300
2005 14	M 14	f 100
2005 16	M 16	f 100
2005 18	M 18	f 100
2005 20	M 20	50
2005 22	M 22	25
2005 24	M 24	25
2005 27	M 27	25
2005 30	M 30	z 25
2005 33	M 33	10
2005 36	M 36	10
2005 39	M 39	10
2005 42	M 42	10
2005 45	M 45	10
2005 48	M 48	10

Specifications

Thread	Pitch	Head size	m
Dia.			
mm	mm	mm	mm
M 2	0.40	4.0	1.6
M 2.5	0.45	5.0	2.0
M 3	0.50	5.5	2.4
M 3.5	0.60	6.0	2.8
M 4	0.70	7.0	3.2
M 5	0.80	8.0	4.0
M 6	1.00	10.0	5.0
M 7	1.00	11.0	5.5
M 8	1.5	13.0	6.5
M 10	1.50	17.0	8.0
M 12	1.75	19.0	10.0
M 14	2.00	22.0	11.0
M 16	2.00	24.0	13.0
M 18	2.50	27.0	15.0
M 20	2.50	30.0	16.0
M 22	2.50	32.0	18.0
M 24	3.00	36.0	19.0
M 27	3.00	41.0	22.0
M 30	3.50	46.0	24.0
M 33	3.50	50.0	26.0
M 36	4.00	55.0	29.0
M 39	4.00	60.0	31.0
M 42	4.50	65.0	34.0
M 45	4.50	70.0	36.0
M 48	5.00	75.0	38.0



Hex Nuts DIN 934, Stainless Steel A4

- In compliance with ISO 4032

Article No.	Dimension	QTY
2006 2	M 2	RF 1000
2006 25	M 2,5	RF 1000
2006 3	M 3	HRF 1000
2006 35	M 3,5	RF 1000
2006 4	M 4	HRF 1000
2006 5	M 5	HRF 1000
2006 6	M 6	HRF 1000
2006 7	M 7	HR 500
2006 8	M 8	HRF 1000
2006 10	M 10	HR 500
2006 12	M 12	fH 300
2006 14	M 14	f 100
2006 16	M 16	f 100
2006 18	M 18	f 100
2006 20	M 20	50
2006 22	M 22	25
2006 24	M 24	25
2006 27	M 27	25
2006 30	M 30	25
2006 33	M 33	10
2006 36	M 36	10
2006 39	M 39	10
2006 42	M 42	10
2006 45	M 45	10
2006 48	M 48	10

Specifications

Thread	Pitch	Head size	m
Dia.			
mm	mm	mm	mm
M 2	0.40	4.0	1.6
M 2.5	0.45	5.0	2.0
M 3	0.50	5.5	2.4
M 3.5	0.60	6.0	2.8
M 4	0.70	7.0	3.2
M 5	0.80	8.0	4.0
M 6	1.00	10.0	5.0
M 7	1.00	11.0	5.5
M 8	1.25	13.0	6.5
M 10	1.50	17.0	8.0
M 12	1.75	19.0	10.0
M 14	2.00	22.0	11.0
M 16	2.00	24.0	13.0
M 18	2.50	27.0	15.0
M 20	2.50	30.0	16.0
M 22	2.50	32.0	18.0
M 24	3.00	36.0	19.0
M 27	3.00	41.0	22.0
M 30	3.50	46.0	24.0
M 33	3.50	50.0	26.0
M 36	4.00	55.0	29.0
M 39	4.00	60.0	31.0
M 42	4.50	65.0	34.0
M 45	4.50	70.0	36.0
M 48	5.00	75.0	38.0



Hex Lock Nuts DIN 980, Stainless Steel A2

- In compliance with ISO 7042
- All-metal type

Article No.	Dimension	QTY
2115 3	M 3	200
2115 4	M 4	100
2115 5	M 5	HR 500
2115 6	M 6	HR 500
2115 8	M 8	HR 500
2115 10	M 10	HR 500
2115 12	M 12	fH 300
2115 14	M 14	f 100
2115 16	M 16	f 100
2115 20	M 20	g 50
2115 24	M 24	25

Specifications

Thread	Pitch	Head size	h	m
Dia. mm	mm	mm	mm	min. mm
M 3	0.50	5.5	3.6	2.40
M 4	0.70	7	4.2	2.20
M 5	0.80	8	5.1	2.75
M 6	1.00	10	6.0	3.30
M 8	1.25	13	8.0	4.40
M 10	1.50	17	10.0	5.50
M 12	1.75	19	12.0	6.60
M 14	2.00	22	14.0	7.70
M 16	2.00	24	16.0	8.80
M 20	2.50	30	20.0	11.00
M 24	1.50	36	24.0	13.20



Hex Lock Nuts DIN 980, Stainless Steel A4

- In compliance with ISO 7042
- All-metal type

Article No.	Dimension	QTY
2116 3	M 3	200
2116 4	M 4	200
2116 5	M 5	100
2116 6	M 6	100
2116 8	M 8	100
2116 10	M 10	50
2116 12	M 12	50
2116 14	M 14	25
2116 16	M 16	25
2116 20	M 20	25
2116 24	M 24	10

Specifications

Thread	Pitch	Head size	h	m
Dia. mm	mm	mm	mm	min. mm
M 3	0.50	5.5	3.6	2.40
M 4	0.70	7	4.2	2.20
M 5	0.80	8	5.1	2.75
M 6	1.00	10	6.0	3.30
M 8	1.25	13	8.0	4.40
M 10	1.50	17	10.0	5.50
M 12	1.75	19	12.0	6.60
M 14	2.00	22	14.0	7.0
M 16	2.00	24	16.0	8.80
M 20	2.50	30	20.0	11.00
M 24	1.50	36	24.0	13.20



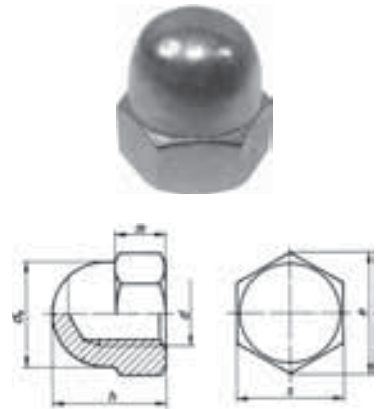
Hex Cap Nuts, DIN 1587, Stainless Steel A2

- High shape

Article No.	Dimension	QTY
2065 3	M 3	RF 1000
2065 4	M 4	HR 500
2065 5	M 5	HR 500
2065 6	M 6	HR 500
2065 8	M 8	HR 500
2065 10	M 10	f 100
2065 12	M 12	f 100
2065 14	M 14	f 100
2065 16	M 16	f 100
2065 18	M 18	25
2065 20	M 20	25
2065 22	M 22	25
2065 24	M 24	10
2065 27	M 27	10
2065 30	M 30	10

Specifications

Thread	Pitch	Head size	dk max.	h	m max.
Dia. mm	mm	mm	mm	mm	mm
M 3	0.50	5.5	5.3	6	2.4
M 4	0.70	7	6.5	8	3.2
M 5	0.80	8	7.5	10	4.0
M 6	1.00	10	9.5	12	5.0
M 8	1.25	13	12.5	15	6.5
M 10	1.50	17	16.0	18	8.0
M 12	1.75	19	18.0	22	10.0
M 14	2.00	22	21.0	25	11.0
M 16	2.00	24	23.0	28	13.0
M 18	2.50	27	26.0	32	15.0
M 20	2.50	30	28.0	34	16.0
M 22	2.50	34	33.0	39	18.0
M 24	3.00	46	34.0	42	19.0
M 27	3.00	41	40.0	47	20.0
M 30	3.50	46	42.0	52	24.0



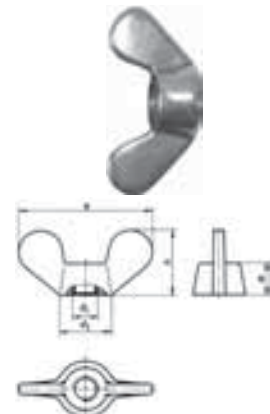
Wing Nuts DIN 315, Stainless Steel A2

- American type

Article No.	Dimension	QTY
2225 3	M 3	100
2225 4	M 4	100
2225 5	M 5	100
2225 6	M 6	100
2225 8	M 8	100
2225 10	M 10	100
2225 12	M 12	50
2225 16	M 16	50

Specifications

Thread	Pitch	d2 max.	e max.	h max.	m max.
Dia. mm	mm	mm	mm	mm	mm
M 3	0.50	8	20	10.5	4.6
M 4	0.70	8	20	10.5	4.6
M 5	0.80	11	26	13	6.5
M 6	1.00	13	33	17	8
M 8	1.25	16	39	20	10
M 10	1.50	20	51	25	12
M 12	1.75	23	65	33.5	14
M 16	2.00	29	73	37.5	17



Breakaway Nuts, Stainless Steel A2

Article No.	Dimension	QTY
2175 6	M 6	100
2175 8	M 8	H 500
2175 10	M 10	100
2175 12	M 12	100

Specifications				
Thread	S	C	B	Breakaway torque Nm
Dia. mm	mm	mm	mm	
M 6	10	10	5	10-15
M 8	13	13	6	13-25
M 10	17	17	8	30-38
M 12	19	19	10	37-45



Square Nuts, DIN 557, Stainless Steel A2

Article No.	Dimension	QTY
2145 8	M 8	1000
2145 10	M 10	500
2145 12	M 12	300

Specifications		
Thread	m	Head size
Dia. mm	max. mm	mm
M 8	6,5	13
M 10	8,0	17
M 12	10,0	19



Spacer Sleeves, Round, Stainless Steel A2

Article No.	Dimension	QTY
2205 6 30	M 6 x 30	100
2205 8 20	M 8 x 20	100
2205 8 25	M 8 x 25	100
2205 8 30	M 8 x 30	100
2205 8 40	M 8 x 40	100
2205 10 25	M 10 x 25	100
2205 10 30	M 10 x 30	100
2205 10 40	M 10 x 40	100
2205 12 30	M 12 x 30	100
2205 12 40	M 12 x 40	50

Specifications	
Dia. mm	OD mm
6	10
8	11
10	13
12	15



Spacer Sleeves Hex, Stainless Steel A2

Article No.	Dimension	QTY
2207 8 25	M 8 x 25	100
2207 8 30	M 8 x 30	100
2207 10 30	M 10 x 30	100
2207 10 40	M 10 x 40	100
2207 12 30	M 12 x 30	50
2207 12 40	M 12 x 40	50

Specifications	
Dia. mm	Head size
8	11
10	13
12	17



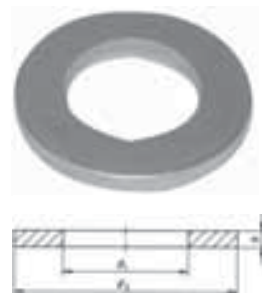
Washers DIN 125, Stainless Steel A2

- In compliance with ISO 7089/7090
- Shape A (without chamfer)

Article No.	Dimension	QTY
2305 2	2	F 1000
2305 25	2,5	F 1000
2305 3	3	HRF 1000
2305 35	3,5	RF 1000
2305 4	4	HRF 1000
2305 5	5	HRF 1000
2305 6	6	HRF 1000
2305 7	7	H 300
2305 8	8	HRF 1000
2305 10	10	HRF 1000
2305 12	12	HRF 1000
2305 14	14	HR 500
2305 16	16	HR 500
2305 18	18	f 100
2305 20	20	f 100
2305 22	22	f 100
2305 24	24	50
2305 27	27	50
2305 30	30	50
2305 33	33	50
2305 36	36	25
2305 39	39	25
2305 42	42	25
2305 45	45	10
2305 48	48	10

Specifications

For thread	d1	d2	h
mm	mm	mm	mm
M 2	2.2	5	0.3
M 2.5	2.7	6	0.5
M 3	3.2	7	0.5
M 3.5	3.7	8	0.5
M 4	4.3	9	0.8
M 5	5.3	10	1.0
M 6	6.4	12	1.6
M 7	7.4	14	1.6
M 8	8.4	16	1.6
M 10	10.5	20	2.0
M 12	13.0	24	2.5
M 14	15.0	28	2.5
M 16	17.0	30	3.0
M 18	19.0	34	3.0
M 20	21.0	37	3.0
M 22	23.0	39	3.0
M 24	25.0	44	4.0
M 27	28.0	50	4.0
M 30	31.0	56	4.0
M 32	33.0	60	5.0
M 36	37.0	66	5.0
M 39	40.0	72	6.0
M 42	43.0	78	7.0
M 45	46.0	85	7.0
M 48	50.0	92	8.0



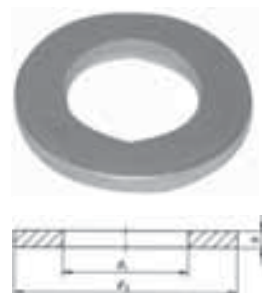
Washers DIN 125, Stainless Steel A4

- In compliance with ISO 7089/7090
- Shape A (without chamfer)

Article No.	Dimension	QTY
2306 2	2	F 1000
2306 25	2,5	F 1000
2306 3	3	HRF 1000
2306 35	3,5	RF 1000
2306 4	4	HRF 1000
2306 5	5	HRF 1000
2306 6	6	HRF 1000
2306 7	7	H 300
2306 8	8	HRF 1000
2306 10	10	HRF 1000
2306 12	12	HRF 1000
2306 14	14	HR 500
2306 16	16	HR 500
2306 18	18	f 100
2306 20	20	gf 100
2306 22	22	f 100
2306 24	24	50
2306 27	27	50
2306 30	30	50
2306 33	33	50
2306 36	36	25
2306 39	39	25
2306 42	42	25
2306 45	45	10
2306 48	48	10

Specifications

For thread	d1	d2	h
mm	mm	mm	mm
M 2	2.2	5	0.3
M 2.5	2.7	6	0.5
M 3	3.2	7	0.5
M 3.5	3.7	8	0.5
M 4	4.3	9	0.8
M 5	5.3	10	1.0
M 6	6.4	12	1.6
M 7	7.4	14	1.6
M 8	8.4	16	1.6
M 10	10.5	20	2.0
M 12	13.0	24	2.5
M 14	15.0	28	2.5
M 16	17.0	30	3.0
M 18	19.0	34	3.0
M 20	21.0	37	3.0
M 22	23.0	39	3.0
M 24	25.0	44	4.0
M 27	28.0	50	4.0
M 30	31.0	56	4.0
M 32	33.0	60	5.0
M 36	37.0	66	5.0
M 39	40.0	72	6.0
M 42	43.0	78	7.0
M 45	46.0	85	7.0
M 48	50.0	92	8.0



Lock Washers DIN 127, Stainless Steel A2

- Shape B

Article No.	Dimension	QTY
2505 2	2	RF 1000
2505 25	2,5	RF 1000
2505 3	3	HRF 1000
2505 35	3,5	RF 1000
2505 4	4	HRF 1000
2505 5	5	HRF 1000
2505 6	6	HRF 1000
2505 8	8	HRF 1000
2505 10	10	HRF 1000
2505 12	12	HRF 1000
2505 14	14	HRF 1000
2505 16	16	HR 500
2505 18	18	f 100
2505 20	20	f 100
2505 22	22	f 100
2505 24	24	50
2505 27	27	50
2505 30	30	50
2505 33	33	50
2505 36	36	50

(for M-type screws)

Specifications						
For thread	d1 min.	d2 max.	b	s	h max.	
mm	mm	mm	mm	mm	mm	mm
M 2	2.10	4.4	0.9	0.5	1.2	
M 2.5	2.60	5.1	1.0	0.6	1.4	
M 3	3.10	6.2	1.3	0.8	1.9	
M 3.5	3.60	6.7	1.3	0.8	1.9	
M 4	4.10	7.6	1.5	0.9	2.1	
M 5	5.10	9.2	1.8	1.2	2.8	
M 6	6.10	11.8	2.5	1.6	3.8	
M 8	8.10	14.8	3.0	2.0	4.7	
M 10	10.20	18.1	3.5	2.2	5.2	
M 12	12.20	21.1	4.0	2.5	5.9	
M 14	14.20	24.1	4.5	3.0	7.1	
M 16	16.20	27.4	5.0	3.5	8.3	
M 18	18.20	29.4	5.0	3.5	8.3	
M 20	20.20	33.6	6.0	4.0	9.4	
M 22	22.50	35.9	6.0	4.0	9.4	
M 24	24.50	40.0	7.0	5.0	11.8	
M 27	27.50	43.0	7.0	5.0	11.8	
M 30	30.50	48.2	8.0	6.0	14.2	
M 33	33.50	55.2	10.0	6.0	14.2	
M 36	36.50	58.2	10.0	6.0	14.2	



Lock Washers DIN 127, Stainless Steel A4

- Shape B

Article No.	Dimension	QTY
2506 3	3	HRF 1000
2506 35	3,5	RF 1000
2506 4	4	HRF 1000
2506 5	5	HRF 1000
2506 6	6	HRF 1000
2506 8	8	HRF 1000
2506 10	10	HRF 1000
2506 12	12	HRF 1000
2506 14	14	HRF 1000
2506 16	16	HR 500
2506 18	18	f 100
2506 20	20	f 100
2506 22	22	f 100
2506 24	24	50
2506 27	27	50
2506 30	30	50
2506 33	33	50
2506 36	36	50

(for M-type screws)

Specifications						
For thread	d1 min.	d2 max.	b	s	h max.	
mm	mm	mm	mm	mm	mm	mm
M 3	3.10	6.2	1.3	0.8	1.9	
M 3.5	3.60	6.7	1.3	0.8	1.9	
M 4	4.10	7.6	1.5	0.9	2.1	
M 5	5.10	9.2	1.8	1.2	2.8	
M 6	6.10	11.8	2.5	1.6	3.8	
M 8	8.10	14.8	3.0	2.0	4.7	
M 10	10.20	18.1	3.5	2.2	5.2	
M 12	12.20	21.1	4.0	2.5	5.9	
M 14	14.20	24.1	4.5	3.0	7.1	
M 16	16.20	27.4	5.0	3.5	8.3	
M 18	18.20	29.4	5.0	3.5	8.3	
M 20	20.20	33.6	6.0	4.0	9.4	
M 22	22.50	35.9	6.0	4.0	9.4	
M 24	24.50	40.0	7.0	5.0	11.8	
M 27	27.50	43.0	7.0	5.0	11.8	
M 30	30.50	48.2	8.0	6.0	14.2	
M 33	33.50	55.2	10.0	6.0	14.2	
M 36	36.50	58.2	10.0	6.0	14.2	



Lock Washers DIN 7980, Stainless Steel A2

Article No.	Dimension	QTY
2525 3	3	HR 500
2525 4	4	HR 500
2525 5	5	HR 500
2525 6	6	HR 500
2525 8	8	HR 500
2525 10	10	HR 500
2525 12	12	fH 300
2525 14	14	f 100
2525 16	16	f 100
2525 18	18	f 100
2525 20	20	f 100
2525 24	24	f 100
2525 27	27	50
2525 30	30	50

(for M-type screws)

Specifications				
For thread	d1 min.	d2 max.	s	h min.
mm	mm	mm	mm	mm
M 3	3.1	5.6	1.0	2.0
M 4	4.1	7.0	1.2	2.4
M 5	5.1	8.8	1.6	3.2
M 6	6.1	9.9	1.6	3.2
M 8	8.1	12.7	2.0	4.0
M 10	10.2	16.0	2.5	5.0
M 12	12.2	18.0	2.5	5.0
M 14	14.2	21.1	3.0	6.0
M 16	16.2	24.4	3.5	7.0
M 18	18.2	26.4	3.5	7.0
M 20	20.2	30.6	4.5	9.0
M 24	24.5	35.9	5.0	10.0
M 27	27.5	38.9	5.0	10.0
M 30	30.5	44.1	6.0	12.0



Washers DIN 9021, Stainless Steel A2

- In compliance with ISO 7093

Article No.	Dimension	QTY
2315 25	2,5	1000
2315 3	3	RF 1000
2315 35	3,5	1000
2315 4	4	HRF 1000
2315 5	5	HRF 1000
2315 6	6	HRF 1000
2315 7	7	500
2315 8	8	HRF 1000
2315 10	10	HR 500
2315 12	12	H 300
2315 14	14	100
2315 16	16	100
2315 18	18	100
2315 20	20	100

(for M-type screws)

Specifications

For thread	d1	d2	h
mm	mm	mm	mm
M 2.5	2.7	8.0	0.8
M 3	9.0	3.2	0.8
M 3.5	3.7	11.0	0.8
M 4	12.0	4.3	1.0
M 5	15.0	5.3	1.6
M 6	18.0	6.4	1.6
M 7	22.0	7.4	2.0
M 8	25.0	8.4	2.0
M 10	30.0	10.5	2.5
M 12	40.0	13.0	3.0
M 14	45.0	15.0	3.0
M 16	50.0	17.0	3.0
M 18	55.0	20.0	4.0
M 20	60.0	22.0	4.0



Washers DIN 9021, Stainless Steel A4

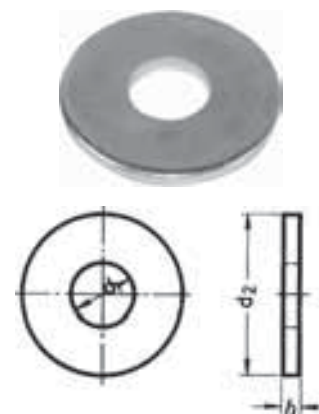
- In compliance with ISO 7093

Article No.	Dimension	QTY
2316 25	2,5	1000
2316 3	3	RF 1000
2316 35	3,5	1000
2316 4	4	RF 1000
2316 5	5	RF 1000
2316 6	6	HRF 1000
2316 7	7	500
2316 8	8	HRF 1000
2316 10	10	HR 500
2316 12	12	H 300
2316 14	14	100
2316 16	16	100
2316 18	18	100
2316 20	20	100

(for M-type screws)

Specifications

For thread	d1	d2	h
mm	mm	mm	mm
M 2.5	2.7	8.0	0.8
M 3	9.0	3.2	0.8
M 3.5	3.7	11.0	0.8
M 4	12.0	4.3	1.0
M 5	15.0	5.3	1.6
M 6	18.0	6.4	1.6
M 7	22.0	7.4	2.0
M 8	25.0	8.4	2.0
M 10	30.0	10.5	2.5
M 12	40.0	13.0	3.0
M 14	45.0	15.0	3.0
M 16	50.0	17.0	3.0
M 18	55.0	20.0	4.0
M 20	60.0	22.0	4.0



Washers DIN 440, Stainless Steel A2

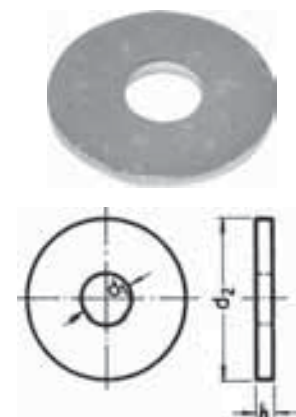
- Shape R

Article No.	Dimension	QTY
2375 5	5	100
2375 6	6	100
2375 8	8	100
2375 10	10	100
2375 12	12	100
2375 16	16	100
2375 20	20	25
2375 24	24	25

(for M-type screws)

Specifications

For thread	d1	d2	s
mm	mm	mm	mm
M 5	5.5	18.0	2
M 6	6.6	22.0	2
M 8	9.0	28.0	3
M 10	11.0	34.0	3
M 12	14.0	45.0	4
M 16	18.0	58.0	5
M 20	22.0	68.0	5
M 24	26.0	92.0	6

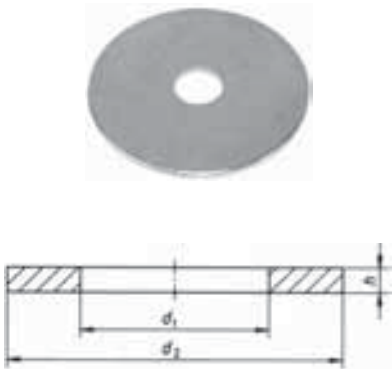


Large Diameter Washers, Stainless Steel A2

Article No.	Dimension	QTY
2335 4 12	4 x 12	HRF 1000
2335 4 15	4 x 15	HRF 1000
2335 4 20	4 x 20	HRF 1000
2335 4 25	4 x 25	HRF 1000
2335 5 15	5 x 15	HRF 1000
2335 5 20	5 x 20	HRF 1000
2335 5 25	5 x 25	HR 500
2335 5 30	5 x 30	HR 500
2335 6 20	6 x 20	HRF 1000
2335 6 25	6 x 25	HRF 1000
2335 6 30	6 x 30	HR 500
2335 6 35	6 x 35	1000
2335 6 40	6 x 40	100
2335 8 20	8 x 20	HRF 1000
2335 8 25	8 x 25	HRF 1000
2335 8 30	8 x 30	HR 500
2335 8 35	8 x 35	HR 500
2335 8 40	8 x 40	H 300
2335 10 25	10 x 25	HR 500
2335 10 30	10 x 30	HR 500
2335 10 35	10 x 35	H 300
2335 10 40	10 x 40	H 300
2335 12 30	12 x 30	H 300
2335 12 35	12 x 35	H 300
2335 12 40	12 x 40	H 300

(for M-type screws)

Specifications		
For thread	d1	s
mm	mm	mm
M 4	4.3	1.0
M 5	5.3	1.5
M 6	6.4	1.5
M 8	8.4	1.5
M 10	10.5	1.5
M 12	12.5	1.5



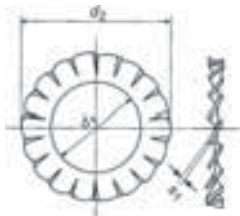
Serrated Washers DIN 6798 AZ, Stainless Steel A2

- Shape A with external teetch

Article No.	Dimension	QTY
2357 2	2	100
2357 25	2,5	100
2357 3	3	100
2357 4	4	100
2357 5	5	100
2357 6	6	100
2357 8	8	100
2357 10	10	100
2357 12	12	100
2357 14	14	100
2357 16	16	100
2357 18	18	100
2357 20	20	100
2357 24	24	100
2357 27	27	100

(for M-type screws)

Specifications			
For thread	d1	d2	s1
mm	mm	mm	mm
M 2	2.2	4.5	0.,3
M 2.5	2.7	5.5	0.4
M 3	3.2	6.0	0.4
M 4	4.3	8.0	0.5
M 5	5.3	10.0	0.5
M 6	6.4	11.0	0.7
M 8	8.4	15.0	0.8
M 10	10.5	18.0	0.9
M 12	12.5	20.5	1.0
M 14	14.5	24.0	1.0
M 16	16.5	26.0	1.2
M 18	19.0	30.0	1.4
M 20	21.0	33.0	1.4
M 24	25.0	38.0	1.5
M 27	28.0	44.0	1.6



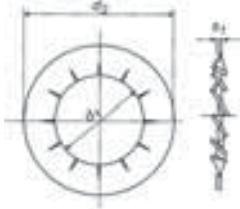
Serrated Washers DIN 6798 IZ, Stainless Steel A2

- Shape I with internal teeth

Article No.	Dimension	QTY
2355 2	2	1000
2355 25	2,5	1000
2355 3	3	100
2355 4	4	100
2355 5	5	100
2355 6	6	100
2355 8	8	100
2355 10	10	100
2355 12	12	100
2355 14	14	100
2355 16	16	100
2355 18	18	100
2355 20	20	100
2355 24	24	100
2355 27	27	100

(for M-type screws)

Specifications			
For thread	d1	d2	s1
mm	mm	mm	mm
M 2	2.2	4.5	0.3
M 2.5	2.7	5.5	0.4
M 3	3.2	6.0	0.4
M 4	4.3	8.0	0.5
M 5	5.3	10.0	0.5
M 6	6.4	11.0	0.7
M 8	8.4	15.0	0.8
M 10	10.5	18.0	0.9
M 12	12.5	20.5	1.0
M 14	14.5	24.0	1.0
M 16	16.5	26.0	1.2
M 18	19.0	30.0	1.4
M 20	21.0	33.0	1.4
M 24	25.0	38.0	1.5
M 27	28.0	44.0	1.6



Schnorr Lock Washers, Stainless Steel A2

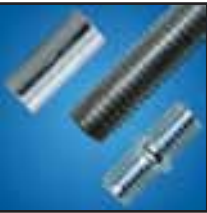
Article No.	Dimension	QTY
2535 8	8	1000
2535 10	10	500
2535 12	12	500

(for M-type screws)

Specifications		
For thread	d1	d2
mm	mm	mm
M 8	8.4	13
M 10	10.5	16
M 12	13.0	18



DIN and Standard Parts

	Screws and Bolts Page 6/100		Rivets and Rivet Tools Page 6/500
	Sheet and Drilling Screws Page 6/157		Hose Clamps Page 6/521
	Threaded Rods, Pins and Nipples Page 6/400		DIN and Standard Parts Stainless Steel A2, A4 Page 6/700
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Bolts and Set Screws

Hexagon Head Bolt
DIN 931



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Hexagon Head Bolt
DIN 933



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Inch Size Hex Head Bolt
DIN 931



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Inch Size Hex Head Bolt
DIN 933



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Hex Head Bolt
Fine Thread
DIN 960



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Hex Head Bolt
DIN 961



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Universal Joint Bolts



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Self-locking Bolts



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Hex Head Bolts with
Flange



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Hex Head Bolts with
Nuts DIN 601



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Slotted Mushroom Head
Cap Screws



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Studs
DIN 835, 939



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Mushroom Head Bolts
DIN 603



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Wheel Studs



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Hex Head Screw Plug
DIN 910



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Oil Drain Plugs



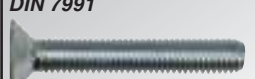
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Hexagon Socket Cap
Screws
DIN 912



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Hexagon Socket Cap
Screws
DIN 7991



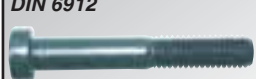
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Button Head Socket
Screws ISO 7380



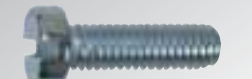
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Hex Socket Head Cap
Screws
DIN 6912



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Slotted Cheese Head
Screws DIN 84



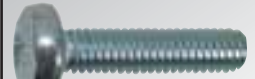
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Slotted Counters. Head
Screws DIN 963



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Cross Recessed Pan
Head Screws DIN 7985



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PH Countersunk Head
Screws DIN 965



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Counters. Raised Head
Screws DIN 966



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Wing Screws
DIN 316



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Self Tapping Screws

Hexagon Head Tapping Screws
DIN 7976



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Hex Head Tapping Screws with Washer



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PH Pan Head Tapping Screws
DIN 7981



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Pan Head Tapping Screws sim. to
DIN 7981



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PH Counter. Head Tapping Screws
DIN 7982



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PH Counter. Head Tapping Screws
DIN 7983



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Hex Head Self - Tapping Screws
DIN 7504 K, M, O



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Wing Screws PH Coarse Thread



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