

SPECIFICATION SHEET

3-PIECE BALL VALVES (Butt-Welding, Stainless Steel)

Service Condition	Rating	150 lbs
	Temperature	180 °C
	Gauge pressure	10 bars
	Service Fluids	De-mineralized Water
Test	Body test	15 bars
	Seat test	7 bars air under water

BODY	Cylindrical – Full Port valve, Quick Disconnected, Stainless Steel 316L
CONNECTION	Stainless Steel 316L, Butt-welding (BW) ends, End Fitting Sch 80s
BALL	Ball - Stainless Steel 316L.
SEAT	Spherical PTFE facing
STEM	Spindle – Stainless Steel 316L.
CONTROL	Stainless Steel Hand Lever.
PACKING	PTFE
BOLTS and NUTS	Tie-rods and Nuts – Stainless Steel
	Note: no part of copper metal
ROOM CONDITION	Corrosive atmosphere

Bill of Quantity

Sr. No:	Size	Qty (Nos.)	Remarks
1.	DN 8	20	
2.	DN 15	50	
3.	DN 20	40	

SPECIFICATION SHEET

GLOBE (Regulating) VALVES

LIMITS OF USE	Rating	150 lbs
	Temperature	180 °C
	Gauge pressure	10 bars
TEST	Body test	15 bars
	Seat test	7 bars air under water

SERVICE FLUIDS	Oxalic Acid, Nitric acid, De-mineralized water, Caustic soda
BODY	Straight – Stainless Steel, SS 316 L
BONNET	Bolted – Stainless Steel SS 316 L
CONNECTION	Raised Faced flange – “ stock Finish” machining – machined bolt facings drilling as per ASME B 16.5
OBUTRATOR	Prabolic disc of stainless steel SS316L
SEAT	Integral, stellited seat facings
STEM	Rising with outside stainless steel threads, sulphinized connector bush.
STUFFING –BOX	Bolted Flanged
STUFFING BOX PACKING	PTFE to be repacked in open position
CONTROL	Hand wheel with position index
Bolts and Nuts	Stainless Steel
	Note: no part of copper metal
MAKE	BONETTI/ Equivalent

Bill of Quantity

Sr. No.	Size	Qty (Nos.)	Remarks
1.	DN 25	10	
2.	DN 40	10	

SPECIFICATION SHEET

NEEDLE VALVES

Service Condition	Rating	150 lbs
	Temperature	180 °C
	Gauge pressure	10 bars
	Service Fluids	Oxalic Acid, Nitric acid, Caustic soda, De-mineralized water,
Test	Body test	15 bars
	Seat test	7 bars air under water

BODY	Straight – Stainless Steel 316L
BONNET	Union, Screwed on the body, Stainless Steel 316L
CONNECTION	Butt- welding (BW) fittings-tightness: Cone/Sphere – the welding end shall be of Stainless Steel 316L - Schedule: 10s
NEEDLE	Movable needle of stainless steel 316L.
SEAT	Built-in
STEM	Rising, outside threads of stainless steel sulphinized connector bush.
CONTROL	Manual, by means of a plasticized metal hand wheel.
Stuffing-box Packing	PTFE
	Note: no part of copper metal
ROOM CONDITION	Corrosive atmosphere

Bill of Quantity

Sr. No.	Size	Qty (Nos.)	Remarks
1.	DN 6	10	
2.	DN 15	10	
3.	DN 20	10	
4.	DN 25	10	

SPECIFICATION SHEET

On / Off Piston Valve (Stainless Steel, Flanged)

LIMITS OF USE	Rating	300 lbs
	Temperature	250 °C
	Gauge pressure	20 bars
TEST	Body test	30 bars
	Seat test	7 bars air under water

SERVICE FLUIDS	Saturated Steam, Pressured Hot Water, Condensate
BODY	Straight – Stainless Steel, SS 316 L
BONNET	Bolted – Stainless Steel SS 316 L
CONNECTION	Raised Face Flanges – Stock Finished Machining – Machined Bolt Facings – Drilling as per ASME B 16.5
OBUTRATOR	Piston for On/Off working – Stainless Steel – Balanced Piston for $\phi \geq 50$.
GUIDE STEM	Stainless Steel.
TIGHTNESS WASHERS	Material (without graphite) to be defined in accordance with above fluid.
CONTROL	Hand wheel of plasticized cast iron.
BOLTS AND NUTS	Stainless Steel
	Note: no part of copper metal
CONDITIONS	Normal Atmosphere
MAKE	BONETTI/ Equivalent

Bill of Quantity

Sr. No.	Size	Qty (Nos.)	Remarks
1.	DN 15	20	
2.	DN 20	30	
3.	DN 25	10	
4.	DN 40	40	
5.	DN 50	20	

SPECIFICATION SHEET

BUTTERFLY VALVES

LIMITS OF USE	Rating	150 lbs
	Temperature	180 °C
	Gauge pressure	10 bars
TEST	Body test	15 bars
	Seat test	7 bars air under water

SERVICE FLUIDS	Demineralized Water (DMW), Pool Water
TYPE	DISCOVANNE – TIGHT
BODY	Cylindrical - Stainless Steel 316L
SEAT	Tightness between body and disc by spherical facings of metal and PTFE containing powdered Stainless Steel.
CONNECTION	Mounting between Welding- Neck Raised Face (WNRF) 150lbs, flanges- “stock finish” machining-machined bolt facings- drilling as per ASME B 16.5
DISC	Stainless Steel 316L Disc
GUIDE STEM	Stainless Steel 316L
CONTROL	Hand wheel on reduction gear in tight casing with disc positioner.
	Note: no part of copper metal
ROOM CONDITION :	Corrosive atmosphere

Bill of Quantity

Sr. No.	Size	Qty (Nos.)	Remarks
1.	DN 150	10	

SPECIFICATION SHEET

PLUG (CYLINDRICAL) VALVES

LIMITS OF USE	Rating	150 lbs
	Temperature	180 °C
	Gauge pressure	10 bars
TEST	Body test	15 bars
	Seat test	7 bars air under water

SERVICE FLUIDS	Pool Water
TYPE	DISCOVANNE – TIGHT
BODY	Cylindrical - Ductile Cast Iron
SEAT	The tightness between body and disc will be made by a flexible and interchangeable ring of ethylene propylene
CONNECTION	Mounting between Welding- Neck Raised Face (WNRF) 150lbs, flanges- "stock finish" machining-machined bolt facings- drilling as per ASME B 16.5
DISC	Ductile Cast-iron Disc
GUIDE STEM	Stainless Steel
CONTROL	Hand wheel on reduction gear in tight casing with disc positioner.
	Note: Possibility of a possible dismounting of the upstream or downstream piping draining without draining the piping.
ROOM CONDITION :	Normal atmosphere

Bill of Quantity

Sr. No.	Size	Qty (Nos.)	Remarks
1.	DN 20	10	