

3-PIECE BALL VALVES

Service Condition	Rating	1000 lbs
	Temperature	180 °C
	Gauge pressure	10 bars
	Service Fluids	Demineralized Water,
Test	Body test	15 bars
	Seat test	7 bars air under water

BODY	Cylindrical – Full Port valve, Quick Disconnect, Stainless Steel 304/316L
CONNECTION	Flanges, Stainless Steel 304/316L, Butt-welding (BW) ends, Sch: 80s
BALL	Ball - Stainless Steel 304/316L.
SEAT	Spherical PTFE facing
STEM	Spindle – Stainless Steel 304/316L.
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 15	50 Nos.	
2.	DN 20	50 Nos.	
3.	DN 25	50 Nos.	

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 304
BONNET	Bolted – Stainless Steel SS 304
CONNECTION	Raised Faced flange – “stock Finish” machining – machined bolt facings drilling as per ASME B 16.5
OBUTRATOR	Prabolic disc of stainless steel SS 304
SEAT	Integral, stellited seat facings
STEM	Rising with outside stainless steel threads, sulphurized connector bush.
STUFFING -BOX	Bolted Flanged
STUFFING BOX PACKING	PTFE to be re-packed 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 15	20	
2.	DN 20	20	
3.	DN 40	20	

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 304
BONNET	Bolted – Stainless Steel SS 304
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	20	
3.	DN 25	20	
4.	DN 40	20	