

3-PC PORT BALL VALVE

SCREW END / BUTT WELD END /
SOCKET WELD END

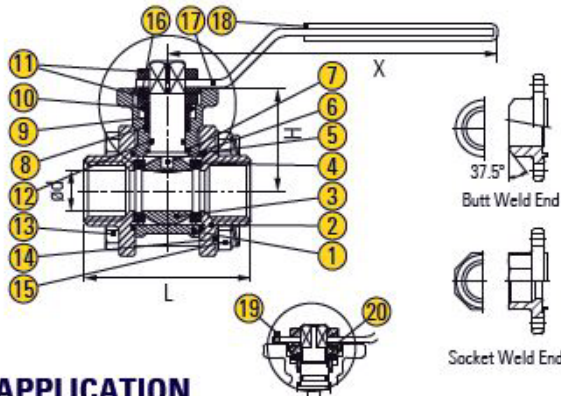
CARBON STEEL / STAINLESS STEEL



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SERIES 90



APPLICATION

Suitable for water, steam, oil, gases and non-abrasive media
(Refer to corrosion resistance table for valve materials selection).

SPECIFICATION

- Pipe thread in accordance with ANSI B2.1, BS21 1973, DIN259 / 2999, ISO228
- Lug body
- Blow-out proof stem / full port
- Investment casting body and cap
- 1000 PSI (69 Bar) W.O.G
- Direct mounting pad for ISO standard 5211
- Screw end, butt weld end, socket weld end

Option: Similar design but with C style clip
DIN standard M3 length

MATERIAL

Parts	Material	
1 Body	ASTM-A351-CF8M	ASTM-A216-WCB
2 Cap	ASTM-A351-CF8M	ASTM-A216-WCB
3 Ball	ASTM-A351-CF8M	ASTM-A351-CF8
4 Ball Seat	PTFE	PTFE
5 Joint Gasket	PTFE	PTFE
6 Stem	ASIS 316	AISI 304
7 Thrust Washer	PTFE	PTFE
8 Stem Packing	PTFE	PTFE
9 High Washer	AISI 304	AISI 304
10 Belleville Washer	AISI 304	AISI 304
11 Stem Nut	AISI 304	AISI 304
12 O-Ring	Viton	Viton
13 Bolt	AISI 304	AISI 304
14 Spring Washer	AISI 304	AISI 304
15 Hex Nut	AISI 304	AISI 304
16 Stopper	AISI 304	AISI 304
17 Handle	AISI 304	AISI 304
18 Plastic Cover	Plastic	Plastic
19 Stopper Pin	AISI 304	AISI 304
20 Lock Washer	AISI 304	AISI 304

DIMENSIONS

Size	Ød	L	H	X
1/4"	11.6	58	36	112
3/8"	12.8	58	36	112
1/2"	15	62	38	112
3/4"	20	77	41.7	138
1"	25	83	44.4	138
1-1/4"	32	94	52.8	205
1-1/2"	38	107	58.5	205
2"	50	120	66	205
2-1/2"	65	157	101.5	330
3"	80	182	112.5	330
4"	100	213.6	127.0	330
5"	120	283	158.5	500
6"	150	342	175	500

*Note : 8"/10"/12" also available on request

*Specification given are subject to changed without further notice.

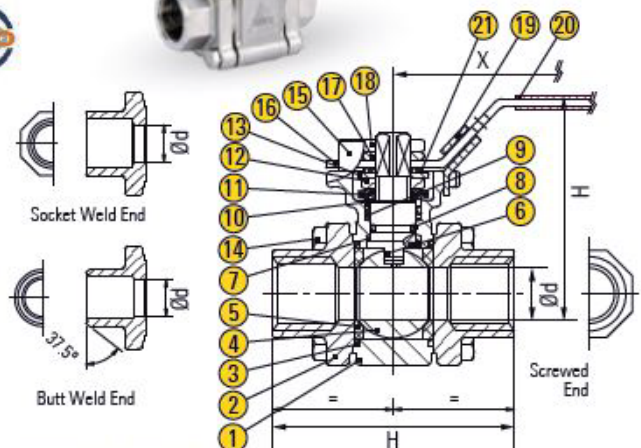
3-PC FULL PORT HIGH PERFORMANCE BALL VALVE

SCREW END / BUTT WELD END /
SOCKET WELD END

CARBON STEEL / STAINLESS STEEL



SERIES 110



APPLICATION

Suitable for water, steam, oil, gases and non-abrasive media
(Refer to corrosion resistance table for valve materials selection).

SPECIFICATION

- Pipe thread in accordance with ANSI B2.1, BS21 1973, DIN259 / 2999, ISO228
- Blow-out proof stem
- Investment casting body and cap
- 2000 PSI or 3000 PSI W.O.G
- Lug body
- Screwed end, butt weld & socket weld end
- Direct mounting pad ISO 5211

Option: Locking device / Standard port
Similar design but with C style clip
DIN standard M3 length
Fire-safe design

MATERIAL

Parts	Material	
1 Body	ASTM-A351-CF8M	ASTM-A216-WCB
2 End Cap	ASTM-A351-CF8M	ASTM-A216-WCB
3 Joint Gasket	PTFE	PTFE
4 Solid Ball	ASTM-A351-CF8M	ASTM-A351-CF8
5 Ball Seat	PTFE	PTFE
6 Stem	ASIS 316	AISI 304
7 Thrust Washer	PTFE	PTFE
8 O-Ring	Viton	Viton
9 Stem Packing	PTFE	PTFE
10 Stem Ring	AISI 304	AISI 304
11 Belleville Washer	AISI 301	AISI 301
12 Stem Nut	AISI 304	AISI 304
13 Saddle Washer	AISI 304	AISI 304
14 Hex Bolt	AISI 304	AISI 304
15 Stop Pin	AISI 304	AISI 304
16 Handle	AISI 304	AISI 304
17 Spring Washer	AISI 304	AISI 304
18 Handle Nut	AISI 304	AISI 304
19 Locking Device	AISI 304	AISI 304
20 Cover	Plastic	Plastic
21 Square Washer	AISI 304	AISI 304

DIMENSIONS

Size	Dim	Ød	L			H	X
			SD	SW	BW		
1/4"		11	65	65	70	58	112
3/8"		12.5	65	65	70	58	112
1/2"		16	75	75	75	62	112
3/4"		20	80	80	80	66	125
1"		25	90	90	100	75	138
1-1/4"		32	110	110	110	80	138
1-1/2"		38	120	120	125	95	170
2"		50	140	140	150	104	170