



Trust[®]

valves and flow control specialist

BALL VALVES

BAV-1

ABOUT US

PROFILE

Trust Valves was established in 2008 and is part of Firsia Group. We operate in the valve market as distributor and stockist of internationally recognized valve brands. Our company is designed to provide efficient and reliable service in harsh industrial applications, combining the proven performance of the industry's most rugged platform with the widest variety of valves and flow control options.

MISSION

Build a partnership with our customers by providing solutions that have deep impact and enable them to achieve core objective. Trust Valves aims to provide the best products and customer service. At Trust Valves, customer satisfaction is the highest priority.

VISION

Control business by providing solutions that give substantial value to our customers, provide highly valued careers for our associates and deliver solid returns to our investors.



PRODUCT LINE

2-PIECES

- Sizes 1/4" through 4"
- Reduce and full port
- Class ANSI 800 to 2500
- Threaded and socket weld ends



3-PIECES

- Sizes 1/4" through 4"
- Reduce and full port
- Class ANSI 800 to 2500
- Threaded, socket weld and butt weld ends



SPLIT BODY

- Sizes 1/4" through 12"
- Reduce and full port
- Class ANSI 800 to 2500
- Flanged and butt weld ends to ANSI and DIN std.



WAFER

- Sizes 1/2" through 8"
- Class ANSI 150 to 300 – PN10 to 40
- End entry



TRUNNION MOUNTED

- Sizes 1/2" through 60"
- Reduce and full port
- Class ANSI 150 to 2500
- Flanged and butt weld ends to ANSI and DIN std



BALL VALVE 2-PIECES

BAR STOCK – ISO 17292



STANDARD FEATURES

- **Construction:** Screwed or Welded body
FIRE-SAFE API-607/6FA
- **Design:** ISO 17292
ASME B16.34
- **Connections:** Socket Weld Ends
Threaded Ends
Welded Nipples PE/BW
- **Testing:** BS6755 P1
- **Rating:** ASME B16.34
- **Marking:** MSS-SP 25
CE – PED
- **Certificates:** EN 10204 – 3.1 B

ISO 17292 VALVES - MATERIAL SPECIFICATIONS

Description	A105/316	LF2/316	F316/316
Body	A105N	A350 LF2	A182 F316
Ball	St/st 316	St/st 316	St/st 316
Seats	PTFE or PTFE+15% Glass	PTFE or PTFE+15% Glass	PTFE or PTFE+15% Glass
Seals	PTFE or PTFE+15% Glass	PTFE or PTFE+15% Glass	PTFE or PTFE+15% Glass
Packing	Graphite	Graphite	Graphite
Packing+Stem Gasket	PTFE+15% Fiberglass	PTFE+15% Fiberglass	PTFE+15% Fiberglass
Fire-safe Gasket	Graphite	Graphite	Graphite
Stem	St/st 316	St/st 316	St/st 316
-Other materials available on request-			

All data are for reference only use and subject to changes without prior notice.

Floating ball valve - Screwed or welded body
Full and reduced bore

Threaded NPT ASME B1.20.1 and Socket Weld ASME B 16.11 ends

Welded nipples only: Plain and Butt welding ASME B16.25 ends

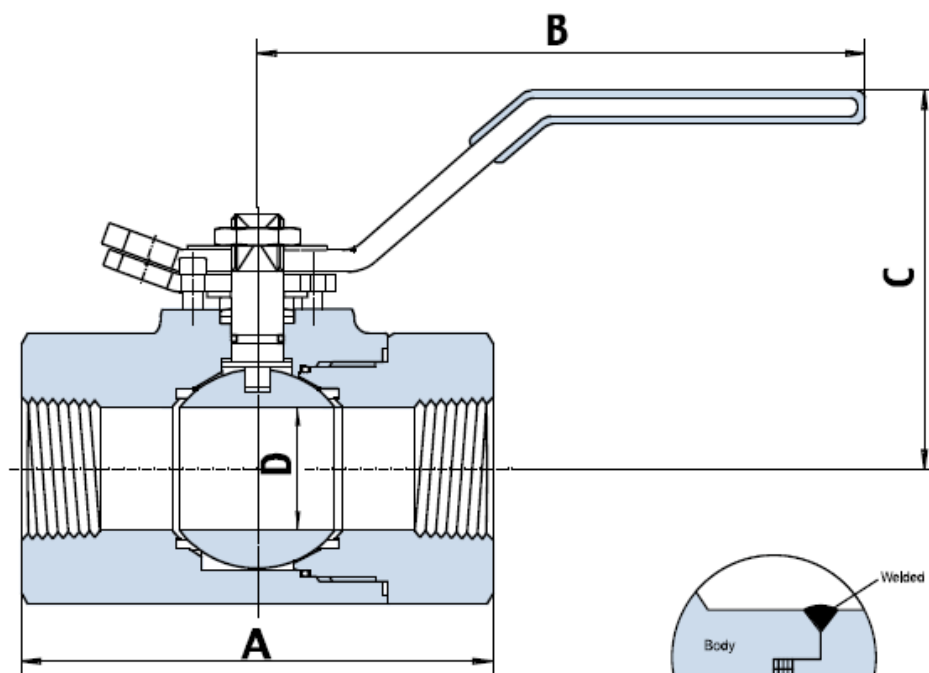


Fig.TB
End Connector
"Gasket"

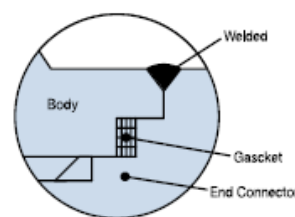


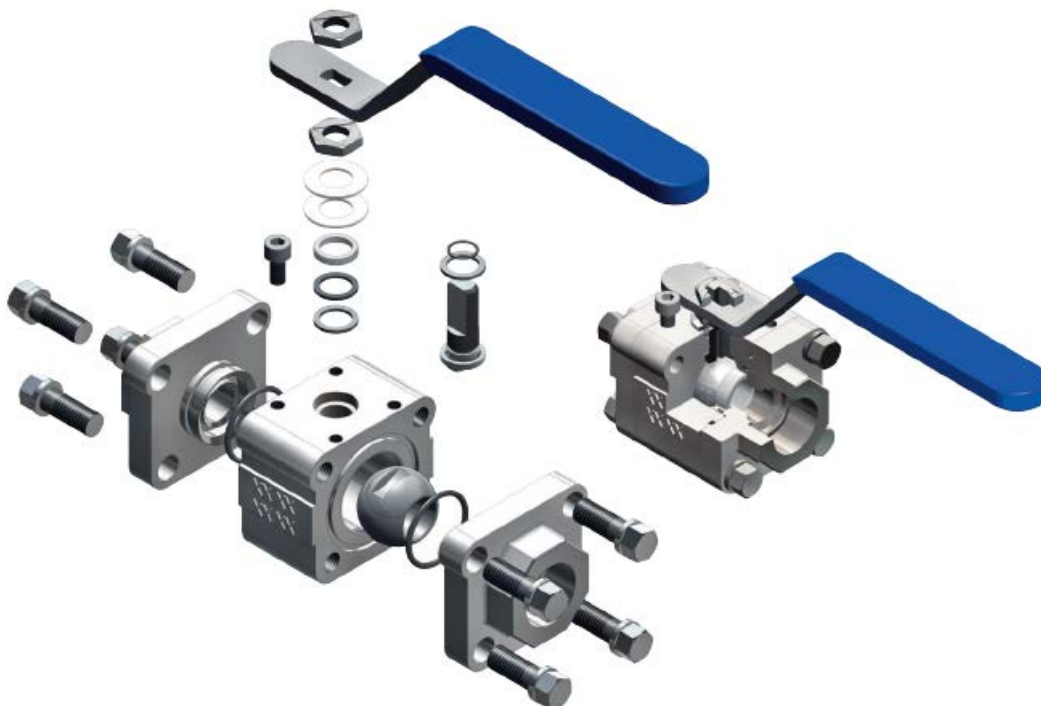
Fig.TA
End Connector
"Welded"

Fig. 5100 Class 800/1500	REDUCE BORE		-	½"	¾"	1"	1.1/4"	1.1/2"	2"	-
	FULL BORE		¼"	⅜"	½"	¾"	1"	1.1/4"	1.1/2"	2"
	End to end	A mm	85	85	90	110	125	135	150	180
	Lever	B mm	155	155	155	170	170	230	230	310
	Center to Top	C mm	74	74	76	98	100	119	124	160
	Ball bore	D mm	10	10	14	20	25	32.5	38	51
	Welded Nipple L mm		100	100	100	100	100	100	100	100
NOTE: End to end dimensions are for reference only and according to manufacturers standard– ASME B16.10 not applicable										

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BALL VALVE 3-PIECES

FORGED AND BAR STOCK – ISO 17292



STANDARD FEATURES

- **Construction:** Bolted body
FIRE-SAFE API-607/6FA
- **Design:** ISO 17292 - ASME B16.34
- **Connections:** Socket Weld Ends ASME B16.22
Threaded Ends ASME B1.20.1
Butt welding ends ASME B16.11
Integral Nipples ASME B16.25
- **Testing:** BS6755 P1
- **Rating:** ASME B16.34
- **Marking:** MSS-SP 25
CE – PED
- **Certificates:** EN 10204 – 3.1 B

ISO 17292 VALVES - MATERIAL SPECIFICATIONS

Description	A105 / 316	LF2 / 316	F316 / 316
Body/Ends	A105N	A350 LF2	A182 F316
Ball	St/st 316	St/st 316	St/st 316
Seats	PTFE or PTFE+15% Glass	PTFE or PTFE+15% Glass	PTFE or PTFE+15% Glass
Seals	PTFE or PTFE+15% Glass	PTFE or PTFE+15% Glass	PTFE or PTFE+15% Glass
Packing	Graphite	Graphite	Graphite
Packing+Stem Gasket	PTFE+15% Fiberglass	PTFE+15% Fiberglass	PTFE+15% Fiberglass
Fire-safe Gasket	Graphite	Graphite	Graphite
Stem	St/st 316	St/st 316	St/st 316

-Other materials available on request-

All data are for reference only use and subject to changes without prior notice.

Floating ball valve - Bolted body
Full and reduced bore

Threaded ASME B1.20.1 NPT and Socket Weld ASME B16.11 ends
Butt weld ASME B16.25 and Integral Nipple PE/BW ASME B16.25 ends

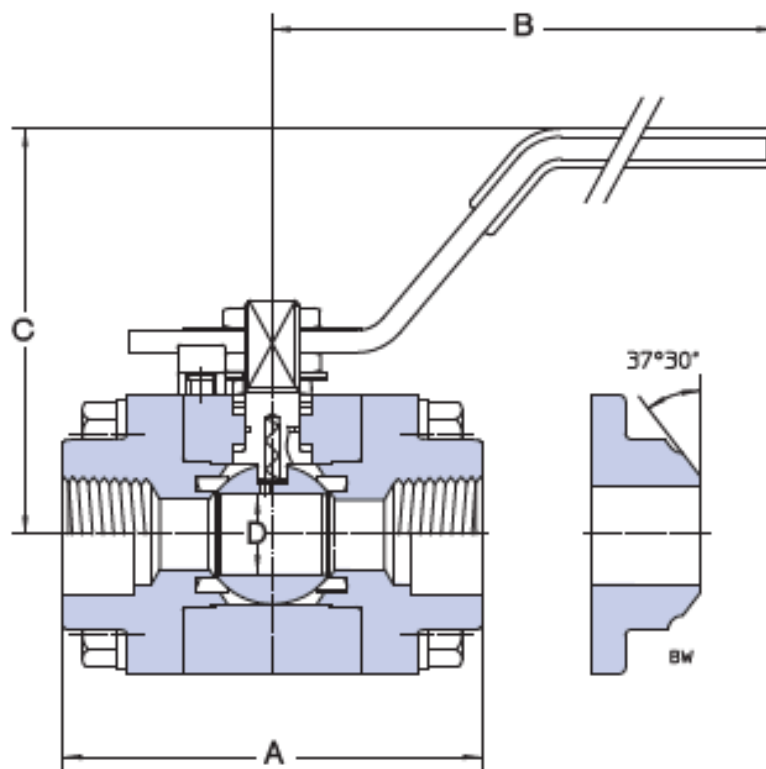


Fig. 5200 Class 800	REDUCE BORE		-	½"	¾"	1"	1.1/4"	1.1/2"	2"	-
	FULL BORE		¼"	⅜"	½"	¾"	1"	1.1/4"	1.1/2"	2"
	End to end	A mm.	75	75	75	87	110	120	140	160
	Lever	B mm.	155	155	155	170	170	230	230	310
	Center to Top	C mm.	72	72	76	98	100	120	130	150
	Ball bore	D mm.	10	10	14	20	25	32.5	38	51

NOTE: End to end dimensions are for reference only and according to manufacturer standard – ASME B16.10 not applicable

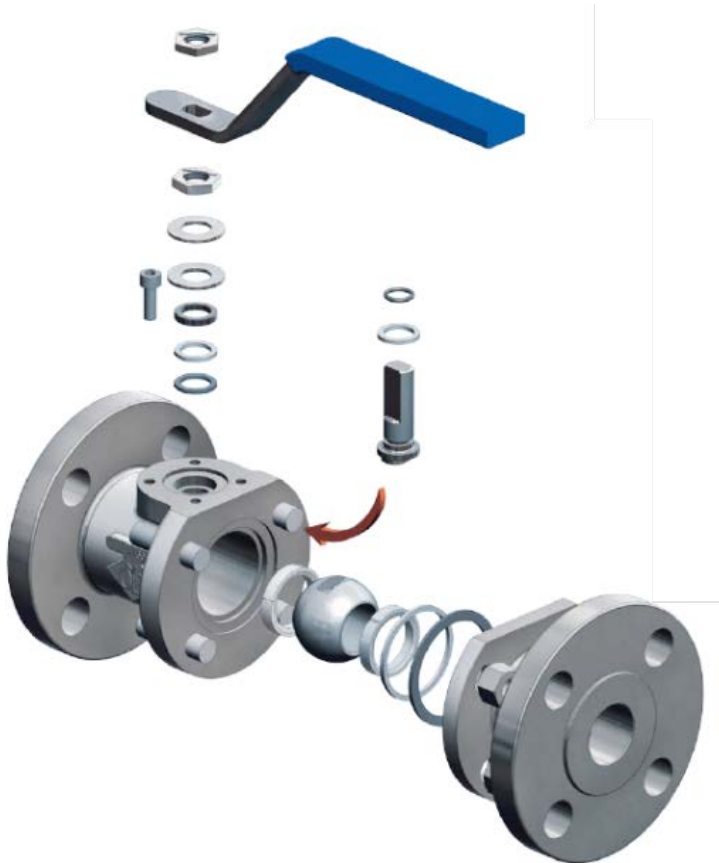
Fig. 5200 Class 1500	REDUCE BORE		-	½"	¾"	1"	1.1/4"	1.1/2"	2"	-
	FULL BORE		¼"	⅜"	½"	¾"	1"	1.1/4"	1.1/2"	2"
	End to end	A mm.	75	75	87	110	120	140	160	200
	Lever	B mm.	155	155	170	170	230	230	310	400
	Center to Top	C mm.	76	76	91	98	119	124	147	168
	Ball bore	D mm.	10	10	14	20	25	32.5	38	51

NOTE: End to end dimensions are for reference only and according to manufacturer standard – ASME B16.10 not applicable

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SPLIT BODY BALL VALVE

FORGED AND BAR STOCK – ISO 17292



STANDARD FEATURES

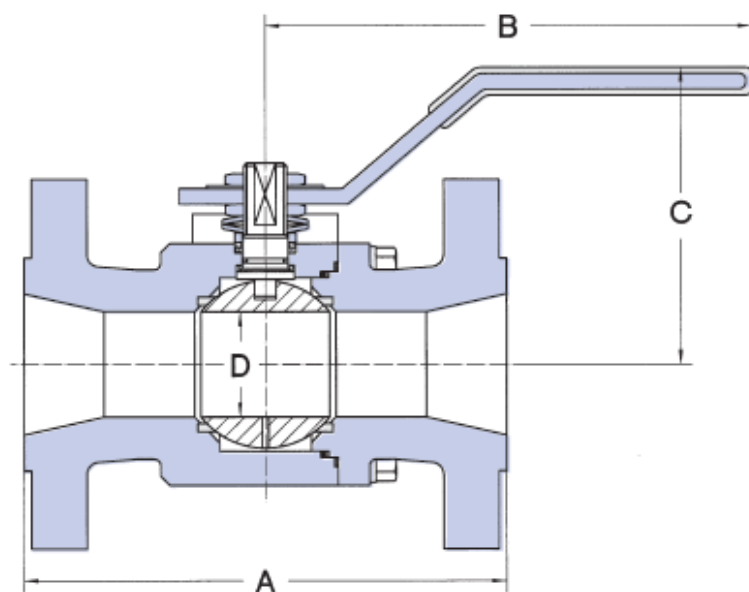
- **Construction:** Bolted body
FIRE-SAFE API-607/6FA
- **Design:** ISO 17292 - ASME B16.34
- **Connections:** Flanged ends ASME B16.5
- **Testing:** BS6755 P1
- **Rating:** ASME B16.34
- **Marking:** MSS-SP 25
CE – PED

ISO 17292 VALVES – MATERIAL SPECIFICATIONS

Description	A105 / 316	LF2 / 316	F316 / 316
Body/End	A105N	A350 LF2	A182 F316
Ball	St/st 316	St/st 316	St/st 316
Seats	PTFE or PTFE+15% Glass	PTFE or PTFE+15% Glass	PTFE or PTFE+15% Glass
Seals	PTFE or PTFE+15% Glass	PTFE or PTFE+15% Glass	PTFE or PTFE+15% Glass
Packing	Graphite	Graphite	Graphite
Packing+Stem Gasket	PTFE+15% Fiberglass	PTFE+15% Fiberglass	PTFE+15% Fiberglass
Fire-safe Gasket	Graphite	Graphite	Graphite
Stem	St/st 316	St/st 316	St/st 316

-Other materials available on request-

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Floating ball valve
Split body – Side entry

Antiblowout stem
Antistatic Device
Fire-Safe

Soft and metal seated

Full and reduced bore

Flanges acc. to ASME B16.5
End to end acc. to ASME B16.10

Fig. 5305 Class #150	FULL BORE	½"	¾"	1"	1 ½"	2"	3"	4"	6"
	REDUCE BORE	½ x ¾"	¾ x ½"	1 x ¾"	1 ½ x 1 ¼"	2" x 1 ½"	3 x 2"	4 x 3"	6 x 4"
	End to end A mm.	108	117	127	165	178	203	229	394
	Lever B mm.	155	170	170	230	310	400	500	*
	Center to Top C mm.	75	98	100	135	155	150	190	190
	Ball bore D mm.	14.2	20.5	25.4	38	51	76	102	148
		11.1	14.2	20.5	31.7	38	51	76	102

Fig. 5310 Class #300	FULL BORE	½"	¾"	1"	1 ½"	2"	3"	4"	6"
	REDUCE BORE	½ x ¾"	¾ x ½"	1 x ¾"	1 ½ x 1 ¼"	2" x 1 ½"	3 x 2"	4 x 3"	6 x 4"
	End to end A mm.	140	153	165	191	216	283	305	403
	Lever B mm.	155	170	170	230	310	400	*	*
	Center to Top C mm.	76	98	100	135	155	150	182	258
	Ball bore D mm.	14.2	20.5	25.4	38	51	76	102	148
		11.1	14.2	20.5	31.7	38	51	76	102

Fig. 5315 Class #600	FULL BORE	½"	¾"	1"	1 ½"	2"	3"	4"	6"
	REDUCE BORE	½ x ¾"	¾ x ½"	1 x ¾"	1 ½ x 1 ¼"	2" x 1 ½"	3 x 2"	4 x 3"	6 x 4"
	End to end A mm.	165	191	216	241	292	356	432	-
	Lever B mm.	155	170	170	230	310	450	*	-
	Center to Top C mm.	76	98	100	135	155	200	244	-
	Ball bore D mm.	14.2	20.5	25.4	38	51	76	102	-
		11.1	14.2	20.5	31.7	38	51	76	-

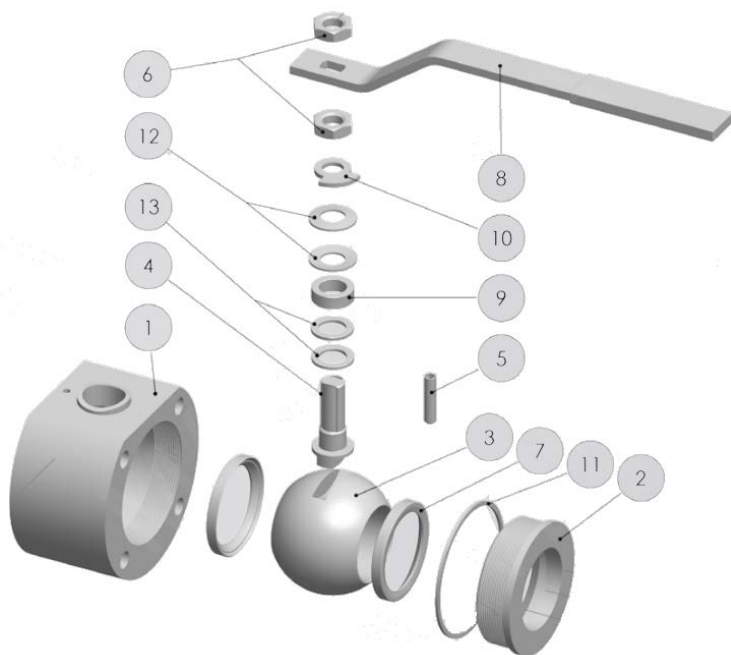
Fig. 5320 Class #1500	FULL BORE	½"	¾"	1"	1 ½"	2"	3"	4"	6"
	REDUCE BORE	½ x ¾"	¾ x ½"	1 x ¾"	1 ½ x 1 ¼"	2" x 1 ½"	3 x 2"	4 x 3"	6 x 4"
	End to end A mm.	216	229	254	305	368	-	-	-
	Lever B mm.	170	170	230	310	400	-	-	-
	Center to Top C mm.	86	120	120	140	170	-	-	-
	Ball bore D mm.	14.2	20.5	25.4	38	51	-	-	-
		11.1	14.2	20.5	31.7	38	-	-	-

*Gear operator suggest

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WAFER BALL VALVE

BAR STOCK AND CASTINGS – ISO 14313



STANDARD FEATURES

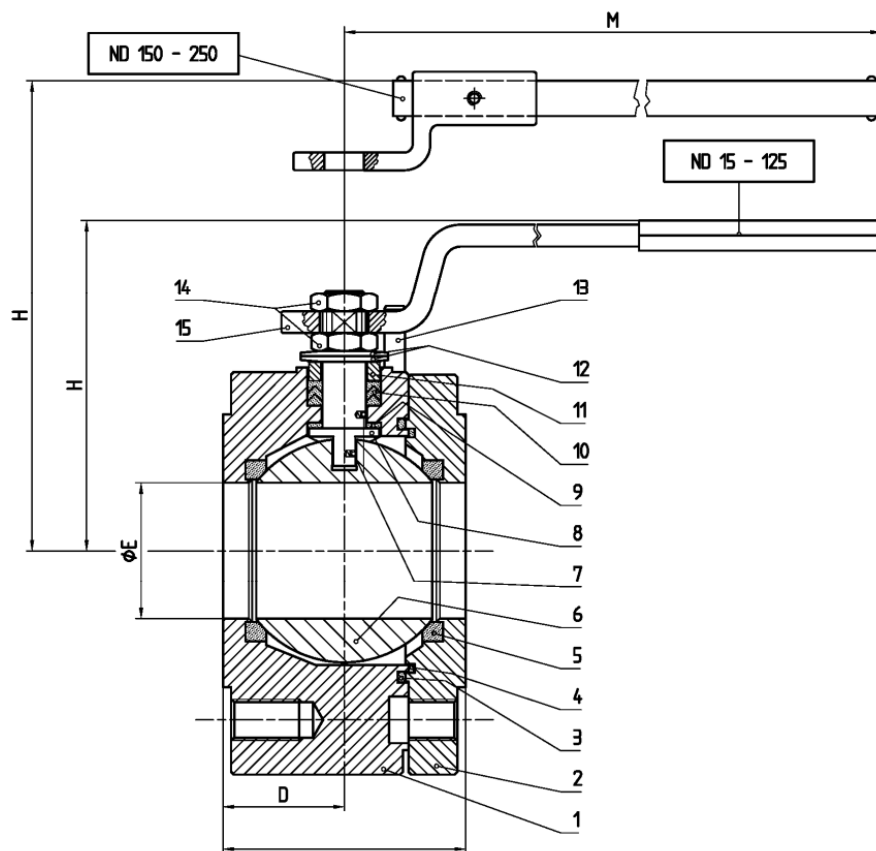
- **Construction:** Bolted body
FIRE-SAFE API-607/6FA
- **Design:** ISO 17292 - ASME B16.34
- **Connections:** Flanged ends ASME B16.5
- **Testing:** BS6755 P1
- **Rating:** ASME B16.34
- **Marking:** MSS-SP 25
CE – PED

ISO 17292 VALVES - MATERIAL SPECIFICATIONS

Description		A105 / 316	LF2 / 316	F316 / 316
Body	1	A105	A350 LF2	A182 F316/L
Closure	2	A105	A350 LF2	A182 F316/L
Ball	3	A182 F316/L	A182 F316/L	A182 F316/L
Step	4	A182 F316/L	A182 F316/L	A182 F316/L
Stop	5	GALVANIZED STEEL	GALVANIZED STEEL	GALVANIZED STEEL
Nuts	6	GR.6S GALVANIZED	GR.6S GALVANIZED	GR.6S GALVANIZED
Seats	7	R-PTFE or DELRIN	R-PTFE or DELRIN	R-PTFE or DELRIN
Lever	8	GALVANIZED STEEL	GALVANIZED STEEL	GALVANIZED STEEL
Pressing bush	9	A105 GALVANIZED	A350 LF2 GALVANIZED	A105 GALVANIZED
Stop	10	GALVANIZED STEEL	GALVANIZED STEEL	GALVANIZED STEEL
O-Ring	11	VITON	VITON	VITON
Spring	12	C.72 GALVANIZED	C.72 GALVANIZED	C.72 GALVANIZED
Stem gasket	13	R-PTFE or GRAPHITE	R-PTFE or GRAPHITE	R-PTFE or GRAPHITE

-Other materials available on request-

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Floating ball valve
Wafer body

End entry

Antiblowout stem
Antistatic Device

Fire-Safe

Soft Seated

Full bore

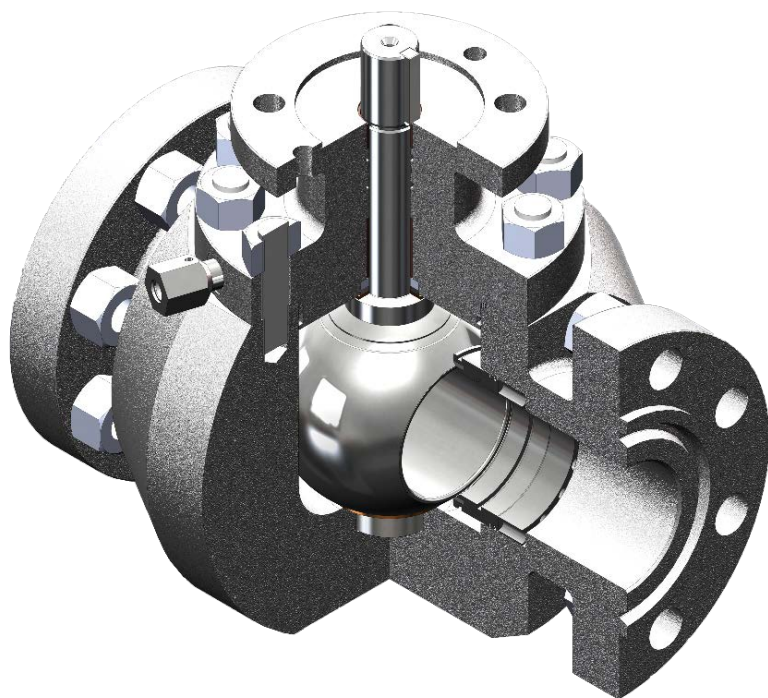
Flanges acc. to ASME B16.5
End to end manufacturer std.

FULL BORE		½"	¾"	1"	1.¼"	1.½"	2"	2.½"	3"	4"	5"	6"	8"	10"
Fig. 5500 #150/300	End to end	S mm.	53	53	57	65	78	84	103	120	153.5	182	234	314
	Lever	M mm.	145	145	185	185	280	280	370	370	470	650	750	1000
	Center to Top	H mm.	66	68	85	91	110	120	144	152	174	188	256	294
	Ball bore	ØE mm.	15	19	25	30	38	51	64	76	101	118	152	203
NOTE: End to end dimensions are for reference only and according to manufacturer standard – ASME B16.10 not applicable														

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TRUNNION MOUNTED BALL VALVE

FORGED AND BAR STOCK – API6D/ASME B16.34



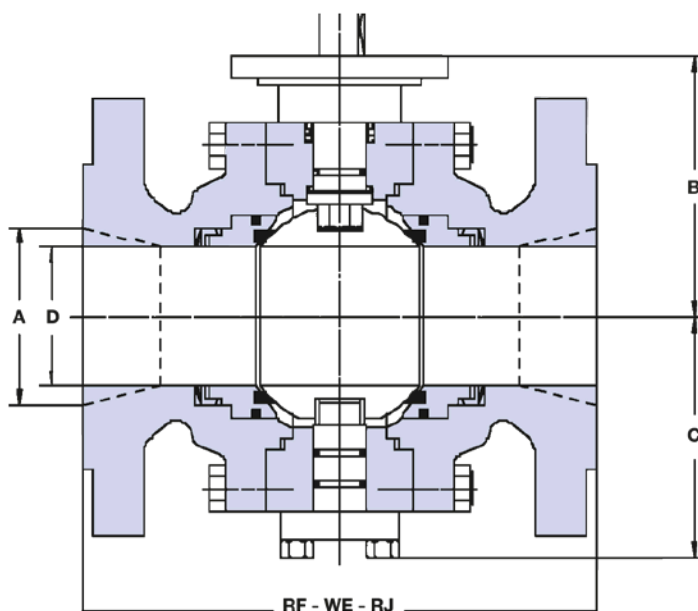
STANDARD FEATURES

- **Construction:** 3-Pieces bolted body
FIRE-SAFE API-607/6FA
- **Design:** API 6D
- **Connections:** Flanged ends ASME B16.5
- **Testing:** API6D
- **Rating:** ASME B16.34
- **Marking:** MSS-SP 25
CE – PED

API 6D VALVES – MATERIAL SPECIFICATIONS

Description	A105 / 316	LF2 / 316	F316 / 316
Body/End	A105N	A350 LF2	A182 F316
Ball	St/st 316	St/st 316	St/st 316
Seats	St/st 316	St/st 316	St/st 316
Trunnion	St/st 316	St/st 316	St/st 316
Seat Insert	PTFE+15% Glass	PTFE+15% Glass	PTFE+15% Glass
Seals	FKM	FKM	FKM
Packing	Graphite	Graphite	Graphite
Stem Seal	FKM	FKM	FKM
Fire-safe Gasket	Graphite	Graphite	Graphite
Stem	St/st 316	St/st 316	St/st 316
-Other materials available on request-			

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Trunnion mounted ball valve
3-pieces body - Side entry

Antiblowout stem
Antistatic Device
Fire-Safe

Soft and metal seated

Full and reduced bore

Flanges acc. to ASME B16.5
End to end acc. to ASME B16.10 Long pattern

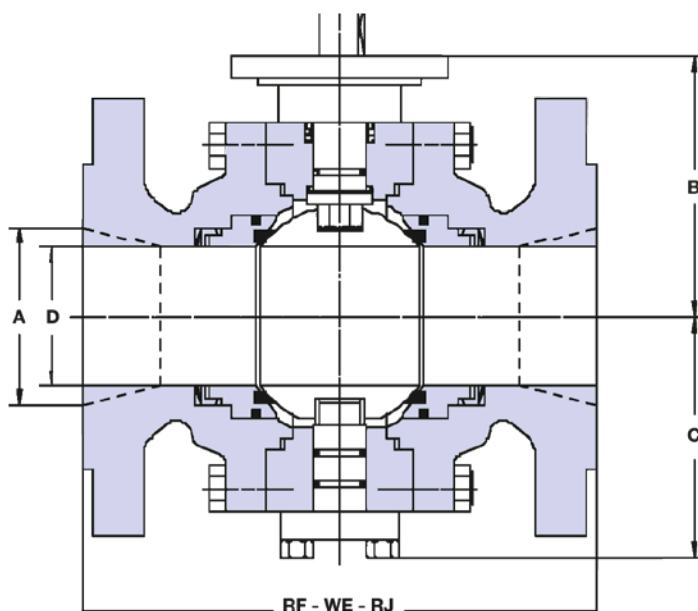
Fig. 5330 - Full Bore
Class ANSI #150

Size	D mm	RF mm	WE mm	B mm	C mm	E mm
2"	51	178	216	140	90	150
3"	76	203	283	190	105	190
4"	102	229	305	247	141	230
6"	152	394	457	295	175	310
8"	203	457	521	330	210	390
10"	154	533	559	400	250	460
12"	305	610	635	460	310	545
14"	356	686	762	480	340	610
16"	406	762	838	540	385	670
18"	457	864	914	580	428	630
20"	508	914	991	584	454	849
22"	559	991	1092	610	581	935
24"	610	1067	1143	612	655	1005
26"	660	1147	1245	627	564	1060
28"	711	2145	1346	644	658	1140
30"	762	1295	1397	691	705	1200
32"	813	1372	1524	742	746	1300
34"	864	1473	1626	753	775	1370
36"	914	1524	1727	812	807	1430
40"	1016	1753	1956	900	898	1600
42"	1067	1855	2083	943	940	1656
48"	1219	2134	2388	1097	1060	1920

Fig. 5330R - Reduced Bore
Class ANSI #150

Size	A mm	D mm	RF mm	WE mm	B mm	C mm	E mm
2" x 1 1/4"	51	38	178	216	101	76	150
3 x 2"	76	51	203	283	140	90	190
4 x 3"	102	76	229	305	190	105	230
6 x 4"	152	102	394	457	280	166	310
8 x 6"	203	152	457	521	295	175	395
10 x 8"	254	203	533	559	330	210	406
12 x 10"	305	254	610	635	400	250	483
14 x 10"	356	254	686	762	460	310	535
14 x 12"	356	304	686	762	460	310	535
16 x 12"	406	305	762	838	480	340	595
16 x 14"	406	356	762	838	480	340	595
18 x 16"	457	406	864	914	540	385	630
20 x 16"	505	406	914	991	580	428	700
20 x 18"	508	457	914	991	580	428	700
24 x 20"	610	508	1067	1143	584	457	820
28 x 24"	711	610	1245	1346	622	495	950
30 x 24"	762	610	1295	1397	638	515	985
36 x 30"	914	762	1524	1727	690	700	1170

All data are for reference only use and subject to changes without prior notice.



Trunnion mounted ball valve
3-pieces body - Side entry

Antiblowout stem
Antistatic Device
Fire-Safe

Soft and metal seated

Full and reduced bore

Flanges acc. to ASME B16.5
End to end acc. to ASME B16.10 Long pattern

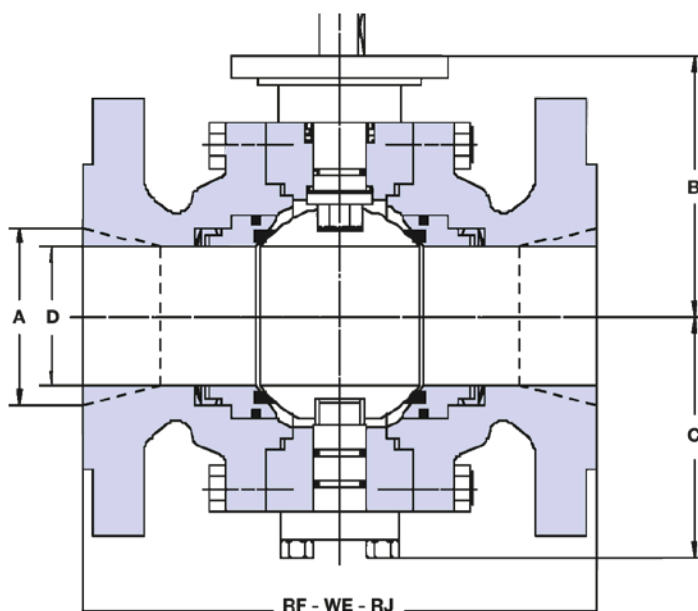
Fig. 5335 - Full Bore
Class ANSI #300

Size	D mm	RF mm	WE mm	B mm	C mm	E mm
2"	51	216	216	200	120	165
3"	76	283	283	240	130	218
4"	102	305	305	247	141	254
6"	152	457	457	295	175	310
8"	203	502	521	330	210	390
10"	254	568	559	420	270	470
12"	305	648	635	465	325	545
14"	356	762	762	545	430	630
16"	406	838	838	600	470	690
18"	457	914	914	586	510	770
20"	508	991	991	607	500	850
22"	559	1092	1092	612	533	940
24"	610	1143	1143	622	600	1010
26"	660	1245	1245	630	580	1080
28"	711	1346	1346	640	675	1150
30"	762	1397	1397	700	730	1230
32"	813	1524	1524	745	760	1320
34"	864	1626	1626	760	800	1380
36"	914	1727	1727	805	825	1445
40"	1016	1956	1956	900	920	1630
42"	1067	2083	2083	968	980	1700
48"	1219	2170	2170	1100	1160	1960

Fig. 5335R - Reduced Bore
Class ANSI #300

Size	A mm	D mm	RF mm	WE mm	B mm	C mm	E mm
2 x 1.1/2"	51	38	216	216	175	80	165
3 x 2"	76	51	283	283	200	120	218
4 x 3"	102	76	305	305	240	130	254
6 x 4"	152	102	457	457	280	150	310
8 x 6"	203	152	502	521	295	175	290
10 x 8"	254	203	568	559	330	210	445
12 x 10"	305	254	648	635	420	270	520
14 x 10"	356	254	762	762	465	325	585
14 x 12"	356	305	762	762	465	358	585
16 x 12"	406	305	838	838	545	430	650
16 x 14"	406	356	838	838	545	430	650
18 x 16"	457	406	914	914	600	470	710
20 x 16"	508	406	991	991	620	510	780
20 x 18"	508	457	991	991	620	510	780
24 x 20"	610	508	1143	1143	637	500	915
30 x 24"	762	610	1397	1397	655	540	1090
36 x 30"	914	762	1727	1727	700	730	1270

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Trunnion mounted ball valve
3-pieces body - Side entry

Antiblowout stem
Antistatic Device
Fire-Safe

Soft and metal seated

Full and reduced bore

Flanges acc. to ASME B16.5
End to end acc. to ASME B16.10 Long pattern

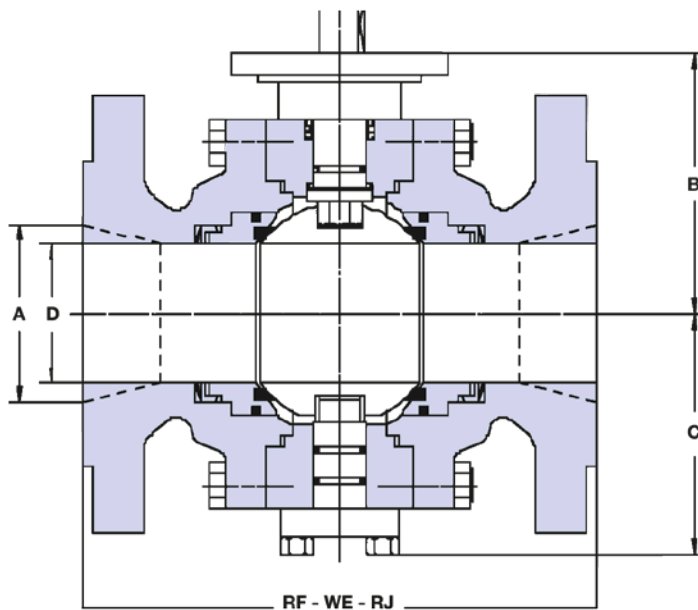
Fig. 5340 - Full Bore
Class ANSI #600

Size	D mm	RF/W Emm	RJ mm	B mm	C mm	E mm
2"	51	292	295	192	110	165
3"	76	356	359	240	110	218
4"	102	432	435	280	175	271
6"	152	553	562	305	195	360
8"	203	660	664	400	280	419
10"	254	787	791	435	285	520
12"	305	838	841	440	320	575
14"	356	889	892	505	340	628
16"	406	991	994	590	410	700
18"	457	1092	1095	589	445	775
20"	508	1194	1200	604	510	865
22"	559	1295	1305	609	571	950
24"	610	1397	1407	622	640	1028
26"	660	1448	1461	630	618	1020
28"	711	1549	1562	665	692	1172
30"	762	1651	1664	741	800	1290
32"	813	1778	1794	756	804	1330
34"	864	1930	1946	782	817	1450
36"	914	2083	2099	869	945	1546
40"	1016	2170	2170	916	980	1645
42"	1067	2175	2175	995	1110	1800
48"	1219	2435	2435	1132	1265	2070

Fig. 5340R - Reduced Bore
Class ANSI #600

Size	A mm	D mm	RF mm	RJ mm	B mm	C mm	E mm
2 x 1.1/2"	51	38	292	295	190	90	165
3 x 2"	76	51	356	359	156	110	210
4 x 3"	102	76	432	435	240	110	373
6 x 4"	152	102	553	562	280	175	356
8 x 6"	203	152	660	664	305	195	419
10 x 8"	254	203	787	791	400	280	510
12 x 10"	305	254	838	841	435	285	560
14 x 10"	356	254	889	892	440	320	605
14 x 12"	356	305	889	892	440	320	605
16 x 12"	406	305	991	994	505	340	685
16 x 14"	406	356	991	994	55	340	628
18 x 16"	457	406	1092	1095	590	410	746
20 x 16"	508	406	1194	1200	604	445	815
20 x 18"	508	457	1194	1200	609	445	815
24 x 20"	610	508	1397	1407	622	510	940
30 x 24"	762	610	1651	1664	629	570	1130
36 x 30"	914	762	2083	2099	708	760	1315

All data are for reference only use and subject to changes without prior notice.



**Trunnion mounted ball valve
3-pieces body - Side entry**

**Antiblowout stem
Antistatic Device
Fire-Safe**

Soft and metal seated

Full and reduced bore

**Flanges acc. to ASME B16.5
End to end acc. to ASME B16.10 Long pattern**

**Fig. 5345 - Full Bore
Class ANSI #1500**

Size	D mm	RF/W Emm	RJ mm	B mm	C mm	E mm
2"	51	368	371	205	120	220
3"	76	470	473	210	125	267
4"	102	546	549	245	160	310
6"	152	705	711	335	255	394
8"	203	832	841	437	340	485
10"	254	991	1000	502	384	585
12"	305	1130	1146	533	438	710
14"	356	1257	1276	626	498	765
16"	406	1384	1407	725	460	848
18"	457	1537	1559	736	607	980
20"	508	1664	1686	762	644	1015
24"	610	2043	1972	813	725	1295

**Fig. 5345R - Reduced Bore
Class ANSI #1500**

Size	A mm	D mm	RF mm	RJ mm	B mm	C mm	E mm
2 x 1.1/2"	51	38	368	371	190	110	220
3 x 2"	76	51	470	473	205	120	267
4 x 3"	102	76	546	549	210	125	310
6 x 4"	152	102	705	711	245	160	394
8 x 6"	203	152	832	841	335	255	485
10 x 8"	254	209	991	1000	410	290	585
12 x 10"	305	254	1130	1146	465	335	675
14 x 10"	356	254	1257	1276	553	439	710
14 x 12"	356	305	1257	1276	553	438	760
16 x 12"	406	305	1384	1407	626	498	825
16 x 14"	406	356	1384	1407	626	498	825
18 x 16"	457	406	1537	1559	630	508	920
20 x 16"	508	406	1664	1686	660	508	990
20 x 18"	508	457	1664	1686	711	542	990
24 x 20"	610	508	2043	1972	762	635	1170

All data are for reference only use and subject to changes without prior notice.

SOFT SEAT MATERIALS

Common name	Chemical name	Temperature range	Application
P.T.F.E.	Polytetrafluoroethylene	-100° to + 180°/220°C	Virgin PTFE is used as a standard material for its high lubricity and superior sealing up to 180°C. It is white in colour.
R.P.T.F.E./Glass	Polytetrafluoroethylene glass filled	-100° to + 200°/250°C	Reinforced PTFE seats are made with glass filled PTFE (20%). They are harder than virgin PTFE. White in colour with green or blue speckles.
R.P.T.F.E./Carbon graphite	Polytetrafluoroethylene carbon-graphite filled	-100° to + 200°/250°C	Reinforced PTFE with 20% carbon and 5% Graphite. These seats are black in colour.
Delrin	Polyoxymethylene acetal resin	-57°C to 82°C	This material is very rigid it has a combination of strength, stiffness, hardness dimensional stability toughness, fatigue resistance, abrasion resistance low wear and low friction. It can withstand pressure up to 5000 PSIG depending on valve size. Do not use on oxygen service.
Devlon	Polyamide	-100° to +150°C	Devlon® V is similar to Nylon 12G, but with a wider range of temperature application (lower and higher).
PEEK	Polyetheretherketone	-100° to 260°C	Peek is recommended for high temperature (up to 260°C) but it is very hard compared to other non-metallic materials. Not applicable for concentrated sulphuric acid.
Kel-F	Polychlorotrifluoroethilen e	-250° + 150°C	PCTFE is specifically recommended for cryogenic service.
Vespel	15% Graphite Filled Polyimide	-100° to 340°C	15% Graphite filler. Performs well in a variety of chemical environments and a variety of industrial fluids at elevated temperatures.
Nylon 12G	Polyamide	-50° to + 120°C	Nylon 12G is more suitable than PTFE for higher pressure, but has a limited range in temperature.
UHMWPE	Ultra High Molecular Weight Polyethylene	-200°C to 80°C	UHMWPE (05) is a common substitute where PTFE is not permitted and has excellent abrasion resistance.



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