



Fully Welded

Ball Valves

Fully Welded

FULLY WELDED type ball valves are cut off devices suitable for use both on natural gas distribution network and for liquid service when high performance on tightness and low pressure drop are required.

Reference standards for all valves

- API 6D design & monogrammed when required,
- Fire-Safe design according to API 607 / API 6 FA / BS 6755,
- Face to Face dimensions according to API 6D and ASME B 16.10,
- Tight shut off according to API 598 & API 6D,
- Flanged RF or RTJ according to ASME B16.5, above 24" according to MSS SP44,
- Butt weld ends according to ASME B 16.25,

Common features

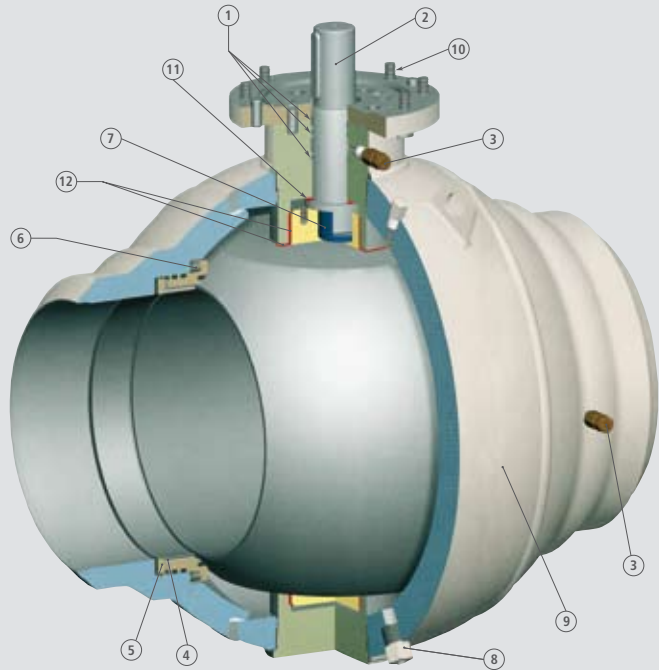
- Double block and bleed facility, in open and closed position;
- Self-relieving seats design;
- Anti-blow out stem design;
- Antistatic device;
- Each valve can be equipped with, manual lever, gear operator, or actuator;
- **Triple** barrier stem seals;
- Emergency seats sealant injection for size 12" and above;
- Emergency stem sealant injection for size 16" and above;



Fully Welded - Ball Valve

Designed With Your Needs In Mind

- 1 Triple-barrier stem seals**
Repackable online under pressure in both open and close position
- 2 Anti blow-out stem**
- 3 Emergency sealant injection stem and seat**
High pressure grease fitting with triple metal to metal seal for reverse flow prevention
- 4 Sealant groove**
All the way around on the external side of the seat ring
- 5 Heavy metal seat ring with soft insert**
- 6 Preloaded elicoidal springs**
Around the seal unit provide maximum operational safety minimizing torque value
- 7 Two self regulating fork shaped bushings**
Reduce stress concentration on stem-ball connection
- 8 Body bleed fitting**
Body cavity may be drained in open and close position
- 9 Forged body and ball**
- 10 Standard bonnet construction**
For easy fitting at job-site of extensions, gearing and power operators
- 11 Stem-thrust plate**
- 12 Trunnions thrust plate**
PTFE impregnated steel bearings assure smooth non-sticking operation without lubrication



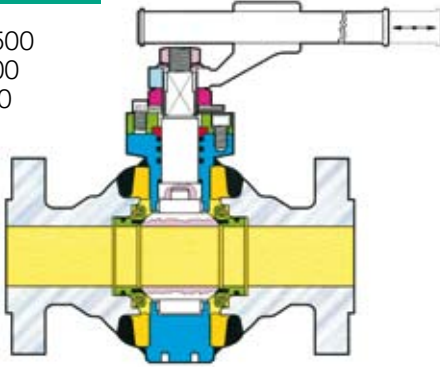
Each kind of valve can be customized upon request, several features applicable

- Primary metal secondary Soft
- Seat with delta-ring insert;
- Double piston effect seats;
- Anti-blow out stem design;
- Special materials;
- Under ground applications;
- Design, high and low temperature application;
- Low fugitive emissions certificate according to TA – Luft VDI 2440,
- SIL 3 Certificate Available

Full and reduced bore valve

Fig. 130 Full bore

DN 2" Class 150÷1500
 DN 3" Class 150÷600
 DN 4" Class 150÷300

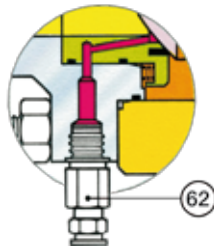


CUT WAY X-X



Stem ball connections

CUT WAY Y-Y



Emergency sealing
 (upon request)

DRAIN PLUG

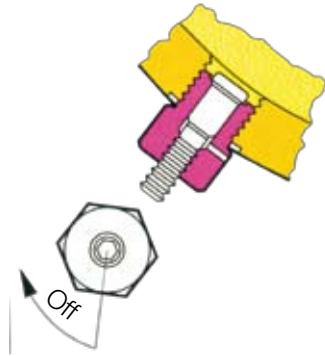
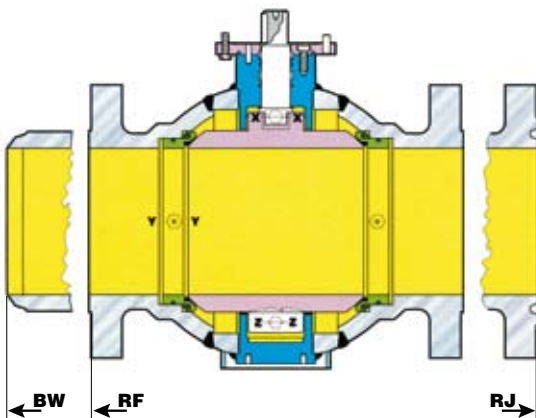
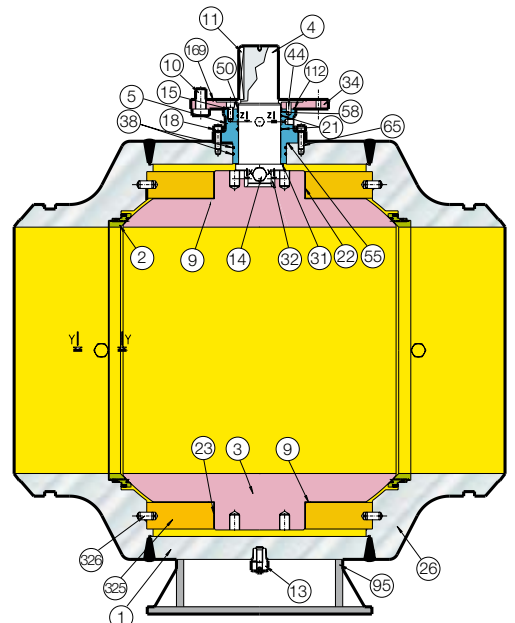


Fig. 450 Full bore

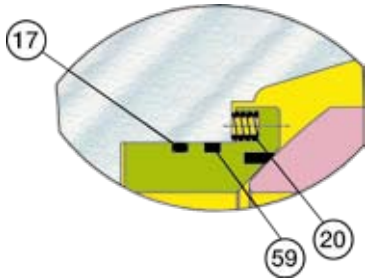
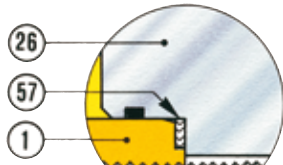
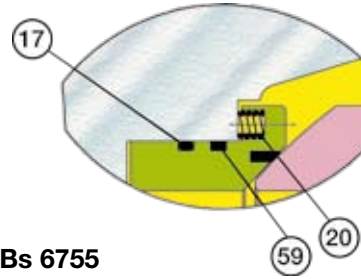


DN 4" ÷ 24" Class 600
 DN 4" Class 900 ÷ DN 6" 1500

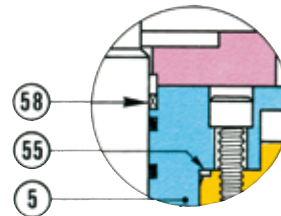
Fig. 450 Full bore



DN 8" Class 900 ÷ DN 16" Class 1500
 DN 26" ÷ DN 36" Class 150 ÷ 600

FEATURES DESCRIPTION
Standard safe - Fire safe execution

 Fire safe seat **API 607 - Bs 6755**


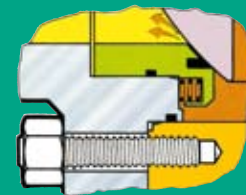
Body



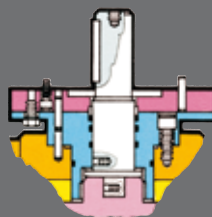
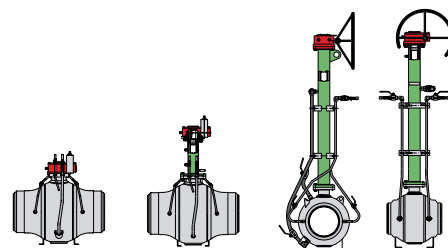
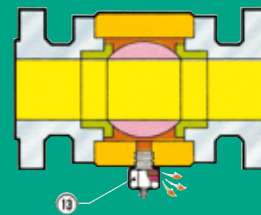
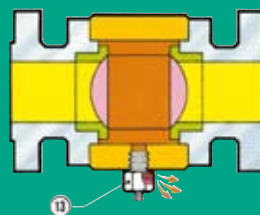
Stem and bonnet

Automatic body Overpressure Relief

The Pietro Fiorentini valves are designed to bleed automatically downwards every overpressure beyond 8 bars (115 PSI), which develops in the body cavity.


Antistatic device
Blow out proof stem

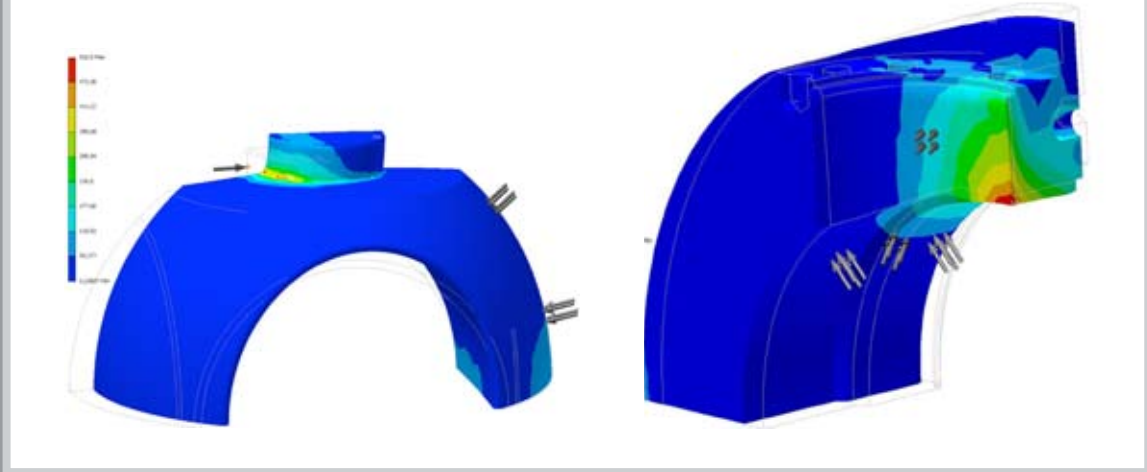
The stem can be assembled only from the internal side of the valve. A stout collar keeps it inside the body. This solution allows to replace the outside gasket on the stem in case it is damaged.


Extended Stem

Double block and bleed


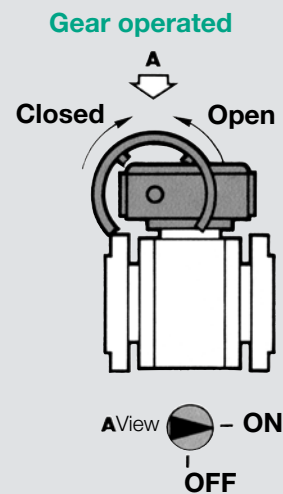
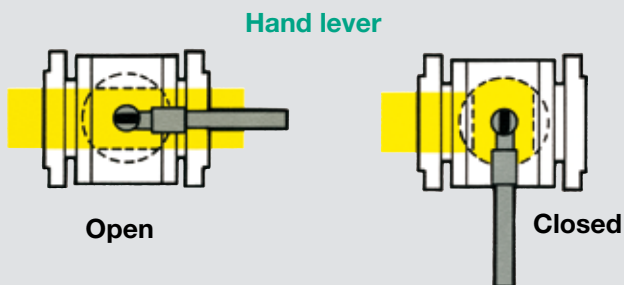
The Pietro Fiorentini valves guarantee the double block of the seats when pressure is applied on both sides of the valve with the drain plug open.

FINITE ELEMENT METHOD (FEM) ANALYSIS

FEM Analysis



Typical flow diagram of a Pietro Fiorentini ball valve



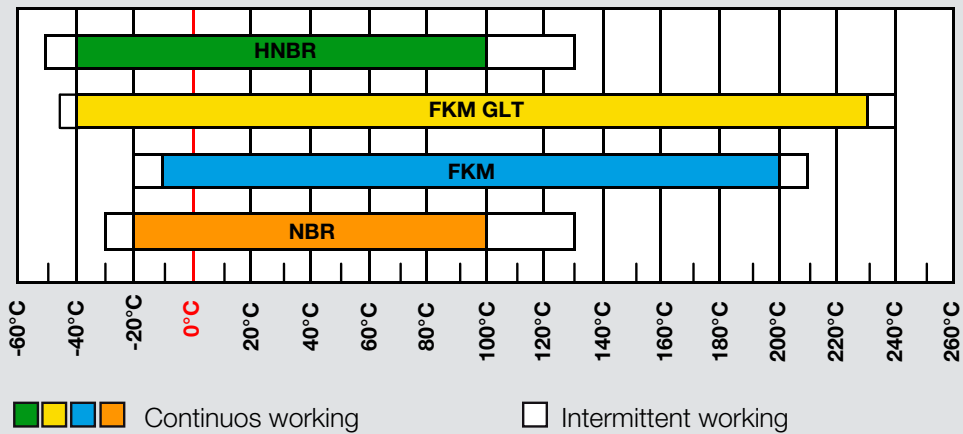
The valve shall be used in fully “open” or “closed” position only.
It is not allowed to operate the valve in partially open position.



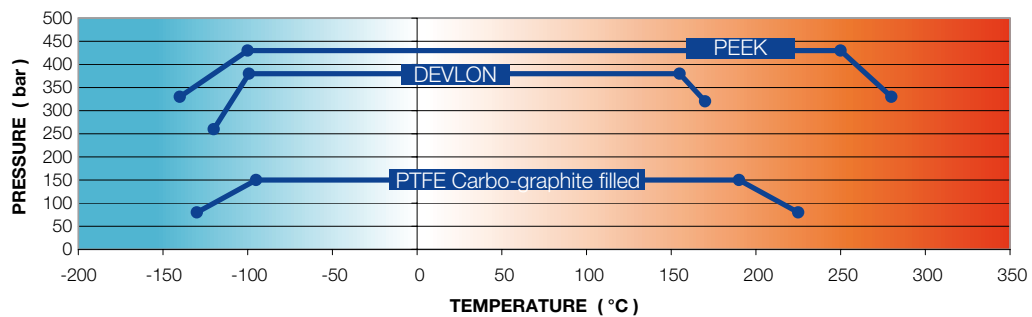
Gas over oil operated valves

TECHNICAL INFORMATION

O.RING temperature range



Seat insert



Solutions available with special materials for non-standard conditions

Construction Materials

BODY GROUP		TRIM NUMBER		
ITEM	DESCRIPTION	STANDARD	NACE	LOW TEMPERATURE
		10	11	12
1	BODY	ASTM A350 LF2	ASTM A350 LF2	ASTM A350 LF2
5	BONNET (UP)	ASTM A350 LF2	ASTM A350 LF2	ASTM A350 LF2
10-35	CAP SCREW	ISO 898/1-8.8*	ISO 898/1-8.8*	ISO 898/1-8.8*
11	STEM KEY	AISI 4140	AISI 4140	AISI 4140
12	BONNET (LOW) ≤ DN24"	ASTM A 350 LF2	ASTM A350 LF2	ASTM A 350 LF2
13	DRAIN PLUG	ASTM A105	ASTM A105 RC22	AISI 316
14	PLUG	ASTM A105	ASTM A105 RC22	AISI 316
25	STOP PIN	ISO 898/1-8.8*	AISI 316	AISI 316
26	TAIL PIECE	ASTM A350 LF2	ASTM A350 LF2	ASTM A350 LF2
34	FLANGE	ASTM A350 LF2	ASTM A350 LF2	ASTM A350 LF2
47	HAND LEVER	ASTM A 106*	ASTM A 106*	ASTM A 106*
48-52	NUT	ISO 898/1-6S*	ISO 898/1-6S*	ISO 898/1-6S*
49	SPRING WASHER	AISI 1075	AISI 1075	AISI 1075
62	GREASE NIPPLE	ASTM A105	ASTM A105 RC22	AISI 316
65-36	PIN	AISI 4140*	AISI 4140*	AISI 4140*
66	STEM STOP	AISI 1040*	AISI 1040*	AISI 1040*
74	WRENCH HEAD	ASTM A105*	ASTM A105*	ASTM A105*
75	WASHER	ASTM A 283=GrC*	ASTM A 283=GrC*	ASTM A 283=GrC*
	BALL BRACKET ≥ 26"	EN10025-P335 NH	EN10025-P335 NH	EN10025-P335 NH
	TEMPERATURE LIMIT	-20° C (-4° F)	-29° C (-20° F)	-46° C (-50° F)

INTERNAL GROUP		TRIM NUMBER			
POS-ITEM	DESCRIPTION	STANDARD	NACE	LOW TEMPERATURE	
		30	31	32	35
2	SEAL	ASTM A350 LF2+ENP	ASTM A 350 LF2+ENP	ASTM A 350 LF2+ENP	AISI 316+ENP
3	BALL	ASTM 350 LF2+ENP	ASTM 350 LF2+ENP RC22	ASTM 350 LF2+ENP	AISI 316+ENP
4	STEM	AISI 410	AISI 410 RC22**	AISI 410**	AISI 316**
9-31	THRUST PLATE	CS-DRY BEARING	CS-DRY BEARING RC22	AISI 316-DRY BEARING	AISI 316-DRY BEARING
20-43	SPRING	AISI 302	INCONEL X 750 RC22	INCONEL X 750	INCONEL X 750
22-23	THRUST BEARING	CS-DRY BEARING	CS-DRY BEARING RC22	AISI 316-DRY BEARING	AISI 316-DRY BEARING
32	THRUST BUSHING	ASTM A105+ENP	ASTM A105+ENP RC22	AISI 316	AISI 316
50	GLAND	AISI 1018*	AISI 1018+ENP RC22	AISI 316	AISI 316
	TEMPERATURE LIMIT	-20° C (-4° F)	-29° C (-20° F)	-46° C (-50° F)	-46° C (-50° F)

SEAL GROUP		TRIM NUMBER				
ITEM	DESCRIPTION	RATING	NBR	FKM	HNBR	FKM GLT
		2	SEAT INSERT - CLASS	150 ÷ 600	PTFE/NBR •	PTFE/FKM •
		900 ÷ 1500	DEVLON	PEEK	DEVLON	PEEK
31	THRUST PLATE UP TO DN3"		PTFE	PTFE	PTFE	PTFE
45	PACKAGING		PTFE	PTFE	PTFE	PTFE
6-17-21-24-38-56-63-58-59-99	O RING		NBR	FKM	HNBR	FKM GLT
	FIRE SAFE RING		GRAFITE - GRAPHITE	GRAFITE - GRAPHITE	GRAFITE - GRAPHITE	GRAFITE - GRAPHITE
55-57	FIRE SAFE RING		AISI 316 + GRAPHITE	AISI 316 + GRAPHITE	AISI 316 + GRAPHITE	AISI 316 + GRAPHITE
	TEMPERATURE LIMIT		-20° C to +100° C (-4° F to +148° F)	-10° C to +200° C (+14° F to +392° F)	-40° C to +100° C (-40° F to +212° F)	-40° C to +200° C (-40° F to +392° F)

* zinc coated

** alternative ASTM A 564 VI74 (17-4-PH)

ENP: electroless nickel plated

• Seat insert alternative (Consult our technical dep. for temperature limit).

ADVICE		CRUDE OIL	NACE ■	LOW TEMP. (-50°F)	NATURAL GAS
TRIM N°	MATERIAL				
BODY GROUP					
10	CARBON STEEL	○	NR	NR	○
11	CARBON STEEL (NACE)	○	○	NR	○
12	CARBON STEEL LOW TEMP.	○	NR	○	○
INTERNAL GROUP					
30	CARBON STEEL	○	NR	NR	○
31	CARBON STEEL (NACE)	○	○	○	○
32	CARBON STEEL LOW TEMP.	○	NR	NR	○
35	STAINLESS STEEL	○	○	○	○
SEALS GROUP					
NBR	NBR	NR	NR	NR	○
FKM	FKM	○	○	NR	○
HNBR	HNBR	○	○	○	○
FKM GLT	FKM GLT	○	○	○	○

NR: NOT RECOMMENDED

○ GOOD

■ NACE: MR-0175 - SULFIDE STRESS CRACKING RESISTANT MATERIAL FOR OIL FIELD EQUIPMENT

TRIM APPLICATION INFORMATION

The indicated table is based on the Pietro Fiorentini experience and on the application experiences with our valves at the values fixed by the ASTM / ASME / ANSI / API regulations. The indications can be considered as a guide for the choice of the trim, but they are not an explicit or implicit guarantee for the proper application of our products or for their adaptability for a particular use.

Overall Dimensions valves FULL BORE

FIG. 450-1

SIZE	BW	B	D	E(S1)	H2	H1	L	P	WEIGHT BW	GEAR OPERATOR
2"	216	100	51	400	205				19	LEVER
3"	283	125	76	550	225				44	LEVER
4"	305	145	102	550	250				61	LEVER
6"	457	230	152	76		265	300	263	101	MG 987/S
8"	521	265	203	70		360	500	320	249	MG 50
10"	559	315	254	92		400	500	345	367	MG 100
12"	635	355	305	125		450	700	415	542	MG 180
14"	762	385	336	125		485	700	415	675	MG 180
16"	838	420	387	137		500	700	440	785	MG 250
18"	914	470	438	137		600	700	440	1215	MG 250
20"	991	555	489	137		680	700	440	1540	MG 250/80
24"	1143	610	590	164		780	700	540	2465	MG 350
26"	1245	640	635	853		853	700	585	2628	MG 450
28"	1346	680	686	888		888	700	585	3009	MG 450
30"	1397	750	737	928		928	700	585	3580	MG 450
32"	1524	790	781	973		973	700	585	4080	MG 450
36"	1727	870	876	1043		1043	700	585	6087	MG 450
INCH	MILLIMETERS				KG.				TYPE	

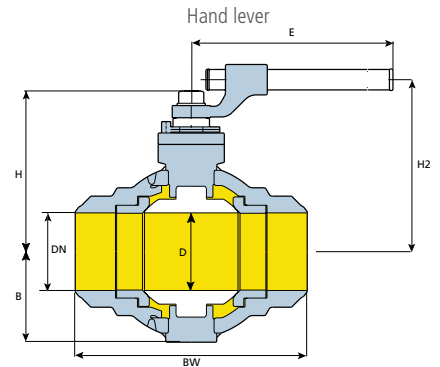


FIG. 450-3

SIZE	BW	B	D	E(S1)	H2	H1	L	P	WEIGHT BW	GEAR OPERATOR
2"	216	100	51	400	205				21	LEVER
3"	283	125	76	550	225				43	LEVER
4"	305	145	102	60		206		135	73	MG 984/S
6"	457	230	152	76		265	300	263	107	MG 987/S
8"	521	265	203	92		375	500	345	257	MG 100
10"	559	315	254	92		400	500	345	363	MG 100
12"	635	355	305	125		450	700	415	525	MG 180
14"	762	385	336	125		485	700	415	679	MG 180
16"	838	420	387	137		500	700	440	956	MG 250
18"	914	470	438	137		600	700	440	1335	MG 250/80
20"	991	555	489	164		680	700	540	1604	MG 350
24"	1143	610	590	164		780	700	540	2914	MG 550
26"	1245	680	635	225		855	700	585	2870	MG 450
28"	1346	750	686	240		945	700	655	3379	MG 550
30"	1397	790	737	240		1015	700	655	4136	MG 550
32"	1524	815	781	240		1062	700	655	4619	MG 550
36"	1727	910	876	160		1170	700	760	6715	RG 3800
INCH	MILLIMETERS				KG.				TYPE	

Side view gear operator

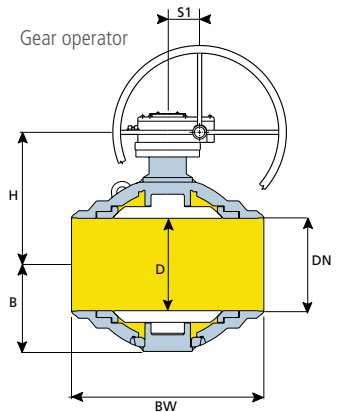
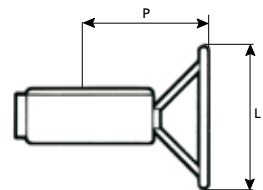
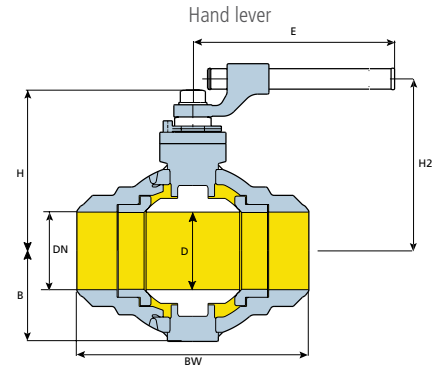


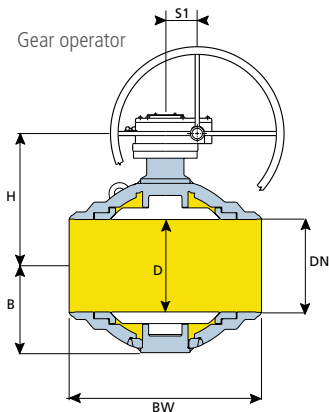
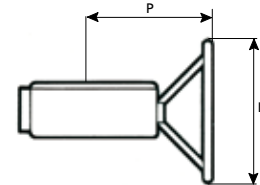
FIG. 450-6

SIZE	BW	B	D	E(S1)	H2	H1	L	P	WEIGHT BW	GEAR OPERATOR
2"	292	100	51	550	205				21	LEVER
3"	356	125	76	550	225				48	LEVER
4"	432	145	102	76		210	300	263	93	MG 987
6"	559	230	152	70		295	500	320	190	MG 50
8"	660	265	203	101		390	600	284	332	MG 150
10"	788	315	254	125		435	700	415	442	MG 180
12"	838	355	305	137		460	700	440	612	MG 250
14"	889	385	336	137		490	700	440	853	MG 250/80
16"	991	420	387	164		540	700	540	1063	MG 350
18"	1092	470	438	240		615	700	600	1631	MG 550
20"	1194	555	489	240		705	700	600	1982	MG 550
24"	1397	610	590	240		810	700	600	2561	MG550/115
26"	1448	720	635	240		855	700	585	3828	MG 550
28"	1549	790	686	240		883	700	655	4479	MG 550
30"	1651	890	737	160		962	700	655	4965	RG 3800
32"	1778	905	781	160		977	700	655	5799	RG 3800
36"	2083	1040	876	160		1092	700	760	8508	RG 3800
INCH	MILLIMETERS				KG.	TYPE				


FIG. 450-9

SIZE	BW	B	D	E(S1)	H2	H1	L	P	WEIGHT BW	GEAR OPERATOR
2"	368	110	51	700	215				35	LEVER
3"	381	130	76	70		190	400	310	78	MG 50
4"	457	155	102	90		230	400	360	130	MG 50
6"	610	191	152	90		340	550	360	305	MG 150
8"	737	225	203	105		410	700	430	450	MG 180
10"	838	280	254	130		490	700	545	650	MG 250
12"	925	332	305	162		510	700	650	1020	MG 250/80
14"	1029	375	324	162		560	700	650	1290	MG 250/80
16"	1130	425	375	118		655	700	650	1650	MG 550
INCH	MILLIMETERS				KG.	TYPE				

Side view gear operator


FIG. 450-15

SIZE	BW	B	D	E(S1)	H2	H1	L	P	WEIGHT BW	GEAR OPERATOR
2"	368	110	51	700	215				34	LEVER
3"	470	135	76	70		210	400	310	114	MG 50
4"	546	160	102	90		240	400	360	146	MG 50
6"	705	230	146	90		360	700	430	445	MG 150
8"	832	270	194	130		445	700	545	560	MG 250
10"	991	325	241	162		522	700	650	850	MG 250/80
12"	1130	365	289	118		550	700	660	1270	MG 550
14"	1257	418	318	200		652	700	670	2105	MG 550
16"	1384	460	362	200		705	700	670	3190	MG 550
INCH	MILLIMETERS				KG.	TYPE				

Overall Dimensions valves REDUCED BORE

FIG. 460-1										CLASS 150	
SIZE	BW	B	D	E(S1)	H2	H1	L	P	WEIGHT BW	GEAR OPERATOR	
3" X 2"	283	100	51	400	205				21	LEVER	
4" X 3"	305	125	76	550	225				47	LEVER	
6" X 4"	457	145	102	550	250				66	LEVER	
8" X 6"	521	230	152	76		265	300	263	122	MG 987/S	
10" X 8"	559	265	203	70		360	500	320	257	MG 50	
12" X 8"	635	265	203	70		360	500	320	308	MG 50	
12" X 10"	635	315	254	92		400	500	345	399	MG 100	
14" X 10"	762	315	254	92		400	500	345	505	MG 100	
14" X 12"	762	355	305	125		450	700	415	537	MG 180	
16" X 14"	838	385	336	125		485	700	415	735	MG 180	
18" X 16"	914	420	387	137		500	700	440	881	MG 250	
20" X 18"	991	470	438	137		600	700	440	283	MG 250	
22" X 20"	1092	505	489	137		680	700	440	1283	MG 250/80	
24" X 20"	1143	555	489	137		680	700	440	1564	MG 250/80	
26" X 24"	1245	610	590	164		780	700	540	1759	MG 350	
28" X 24"	1346	640	590	225		780	700	585	2425	MG 450	
30" X 28"	1397	680	686	225		888	700	585	2840	MG 450	
32" X 28"	1524	750	686	225		888	700	585	3251	MG 450	
36" X 32"	1626	790	781	225		973	700	585	3867	MG 450	
INCH		MILLIMETERS				KG.		TYPE			

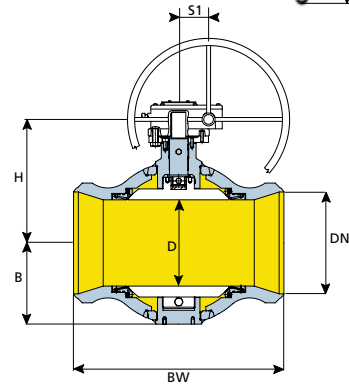
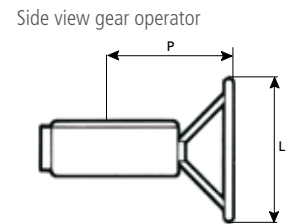
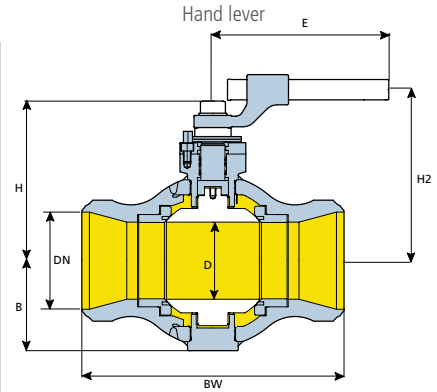
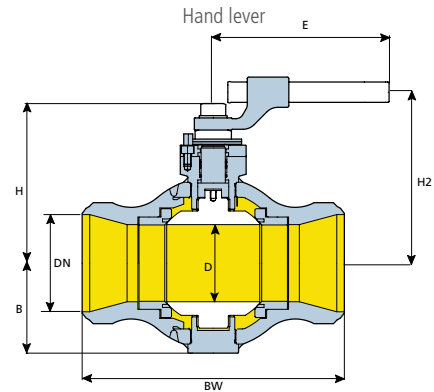


FIG. 460-3										CLASS 300	
SIZE	BW	B	D	E(S1)	H2	H1	L	P	WEIGHT BW	GEAR OPERATOR	
3" X 2"	283	100	51	400	205				22	LEVER	
4" X 3"	305	125	76	550	225				47	LEVER	
6" X 4"	457	145	102	60		206	300	135	78	MG 984/S	
8" X 6"	521	230	152	76		265	300	263	115	MG 987/S	
10" X 8"	559	265	203	92		375	500	345	277	MG 100	
12" X 8"	635	265	203	92		375	500	345	296	MG 100	
12" X 10"	635	315	254	92		400	500	345	393	MG 100	
14" X 10"	762	315	254	92		400	500	345	418	MG 100	
14" X 12"	762	355	305	125		450	700	415	567	MG 180	
16" X 14"	838	385	336	125		485	700	415	734	MG 180	
18" X 16"	914	420	387	137		500	700	440	1033	MG 250	
20" X 18"	991	470	438	137		600	700	440	1442	MG 250/80	
22" X 20"	1093	505	489	164		680	700	540	1733	MG 350	
24" X 20"	1143	555	489	164		680	700	540	1985	MG 350	
26" X 24"	1245	610	590	164		780	700	540	2925	MG 550	
28" X 24"	1346	610	590	225			700	585	3100	MG 550	
30" X 28"	1397	750	686	240			700	655	3650	MG 550	
32" X 28"	1524	750	686	240			700	655	4468	MG 550	
36" X 32"	1727	815	781	240			700	655	5887	MG 550	
INCH		MILLIMETERS				655		TYPE			

FIG. 460-6									CLASS 600		
SIZE	BW	B	D	E(S1)	H2	H1	L	P	WEIGHT BW	GEAR OPERATOR	
3"X 2"	356	100	51	550	205				23	LEVER	
4"X 3"	432	125	76	550	225				52	LEVER	
6" X 4"	559	145	102	76		210	300	263	100	MG 987	
8"X 6"	660	230	152	70		295	500	320	205	MG 50	
10"X 8"	788	265	203	101		390	600	284	359	MG 150	
12"X 8"	838	265	203	101		390	600	284	382	MG 150	
12"X 10"	838	315	254	125		435	700	415	478	MG 180	
14"X 10"	889	315	254	125		435	700	415	509	MG 180	
14"X 12"	889	355	305	137		460	700	440	661	MG 250	
16"X14"	991	385	336	137		490	700	440	921	MG 250/80	
18"X16"	1092	420	387	164		540	700	540	1148	MG 350	
20"X18"	1194	470	438	240		615	700	600	1762	MG 550	
22"X 20"	1296	505	489	240		705	700	600	2141	MG 550	
24"X20"	1397	555	489	240		705	700	600	2452	MG 550	
26"X 24"	1448	610	590	240		810	700	600	3575	MG 550/115	
28"X 24"	1448	610	590	240		810	700	600	4134	MG 550	
30"X 28"	1651	790	686	240		883	700	655	4838	MG 550	
32"X 28"	1651	790	686	240		883	700	655	5363	MG 550	
36"X 32"	2083	915	781	160		977	700	655	6762	RG 3800	
INCH			MILLIMETERS			KG.		TYPE			



Side view gear operator

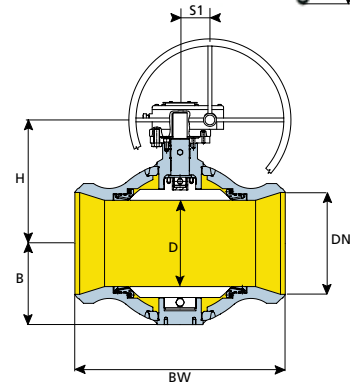
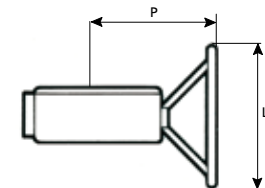


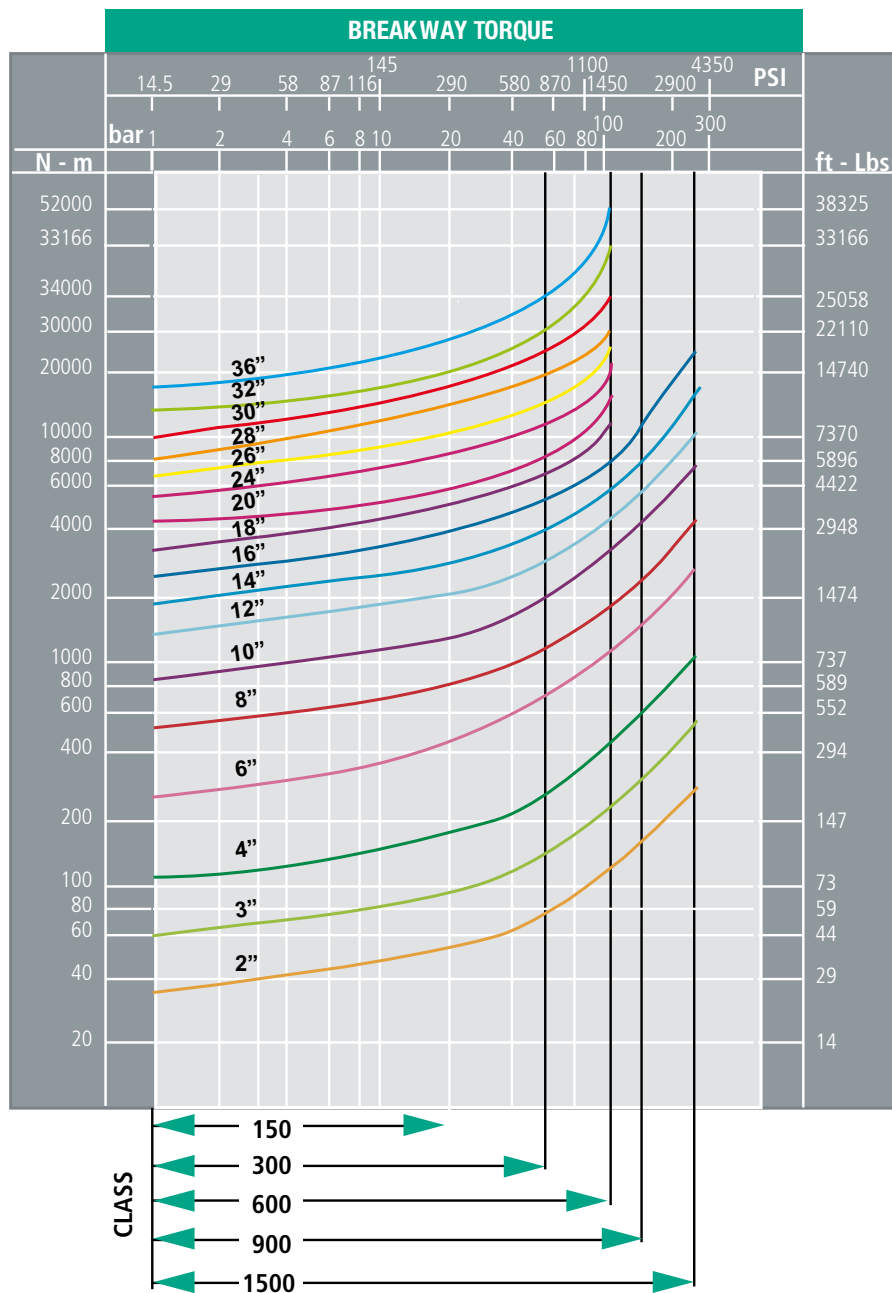
FIG. 460-9									CLASS 900		
SIZE	BW	B	D	E(S1)	H2	H1	L	P	WEIGHT BW	GEAR OPERATOR	
3"X 2"	381	110	51	700	215				51	LEVER	
4"X 3"	457	130	76	70		190	400	310	85	MG 50	
6"X 4"	610	155	102	90		230	400	360	190	MG 50	
8"X 6"	737	191	152	90		340	550	360	345	MG 150	
10"X 8"	838	225	203	105		410	700	430	560	MG 180	
12"X 10"	965	280	254	130		490	700	545	790	MG 250	
14"X 10"	1029	280	254	130		490	700	545	990	MG 250	
16"X 12"	1130	332	305	162		510	700	650	1710	MG 250/80	
18"X 14"	1219	375	324	162		560	700	650	1750	MG 250/80	
20"X 16"	1321	425	375	118		655	700	650	1920	MG 550	
INCH			MILLIMETERS			KG.		TYPE			

FIG. 460-15									CLASS 1500		
SIZE	BW	B	D	E(S1)	H2	H1	L	P	WEIGHT BW	GEAR OPERATOR	
3"X 2"	470	110	51	700	215				79	LEVER	
4"X 3"	546	135	76	70		210	400	310	738	MG 50	
6"X 4"	705	160	102	90		240	400	360	255	MG 50	
8"X 6"	832	230	146	90		360	700	430	495	MG 150	
10"X 8"	991	270	194	130		445	700	545	590	MG 250	
12"X 10"	1130	325	241	162		522	700	650	910	MG 250/80	
14"X 10"	1257	325	241	162		522	700	650	1190	MG 250/80	
16"X 12"	1384	365	289	118		550	700	660	1310	MG 550	
18"X 14"	1537	418	318	200		652	700	670	2350	MG 550	
INCH			MILLIMETERS			KG.		TYPE			

Breakway of the ball valve

The table shows the breakway of the ball valve Pietro Fiorentini in working conditions at room temperature. For the scaling of the actuator or for the high/low temperature service it is recommended to consider a factor of safety.

Breakway torque of reduced bore valves refers to the lower nominal diameter.



EXAMPLE:

Fig. 130.6 DN 10" Class 600 = 2850 Nm (2100 ft. lbs)

Fig. 160.6 DN 12"x10" Class 600 = 2850 Nm (2100 ft. lbs)

REFERENCE STANDARD

ASTM	■ American Society for Testing and Materials
ASME	■ American Society of Mechanical Engineers
NACE	■ National Association of Corrosion Engineers
MR-0175	■ Sulfide Stress Cracking Resistant material For Oil Field Equipment
API	■ American Petroleum Institute
Spec. 6D	■ Specification for pipeline valves
Spec. RP-6FA	■ Recommended Practice for Fire Test for Valves
Std. 607	■ Fire test for soft-seated quarter turn valves
Std. 598	■ Valve Inspection and Test
ANSI	■ American National Standard Institute
B16.5	■ Steel Pipe Flanges and Flanged Fittings
B16.10	■ Face to Face and End to End Dimension of Ferrous Valves
B16.25	■ Butt-Welding End
B16.34	■ Steel Valves
B31.8	■ Gas Transmission and Distribution Piping System
MSS-SP	■ Manufacturers Standardization Society of the valve Fitting industry
SP6	■ Standard Finisch for Contact Face of Pipe Flangers and Connecting End Flanges of Valves and Fittings
SP25	■ Standard marking System for Valves Fittings Flanges and Unions
SP61	■ Hydrostatic Testing of Steel Valves
SP72	■ Ball Valves with Flanged or Butt Welding Ends for general service
EN	
EN 1092-1	■ Circular flanges for pipes, valves, fittings and accessories, PN designated Part. 1 Steel flanges
EN ISO 17292	■ Metal ball valves for petroleum, petrochemical and allied industries
EN12266-1	■ Industrial valves. Testing of metallic valves Part. 1 Pressure tests, test procedures and acceptance criteria. Mandatory requirement

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