



Trust[®]

valves and flow control specialist

FULLY LINED VALVES

FLV-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

BUTTERFLY VALVES

- Wafer, LUG or Double flanged ("U" section)
- Sizes 2" through 16"
- Maximum operating pressure: 10 bar (16 bar on request)



PLUG VALVES

- Class ANSI #150 to #300 – PN10 to PN40
- Sizes 1/2" through 12"
- Flanged ends



BALL VALVES

- Class ANSI #150 – PN10/16
- Sizes 1/2" through 6"
- Flanged ends



DIAPHRAGM

- Weir or Straight-through body
- Sizes 1/2" through 12"
- Class ANSI #125 – PN10 to PN16



CHECK VALVES

- Wafer swing check, Ball check
- Sizes 1/2" through 12"
- Class ANSI #150 – PN10 to PN16



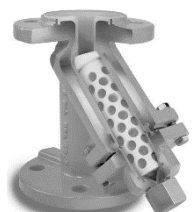
SIGHT GLASSES

- Class ANSI #150 – PN10/16
- Sizes 1/2" through 6"
- Flanged ends



Y-STRAINERS

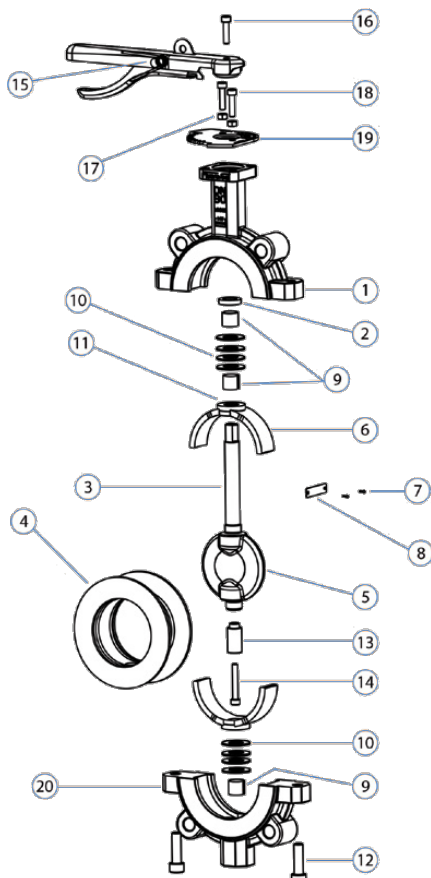
- Class ANSI #150 – PN10/16
- Sizes 1/2" through 4"
- Flanged ends



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BUTTERFLY VALVES

PTFE SEATED – API 609-A / ISO 5752



STANDARD FEATURES

- **Construction:** Resilient Seat
Self-centering Disc
Fully Rated
- **Design:** API 609-A
ISO 5752 short
- **Body style:** Wafer
LUG
Double flanged ("U" section)
- **Testing:** EN 12266-1 Rate A
ISO 5208 Rate A
DIN 3230
API 598
- **Rating:** ASME B16.34
- **Marking:** MSS-SP 25
CE – PED
- **Certificates:** EN 10204 – 3.1 B

No.	Part	No.	Part
1	Upper body	2	Dust seal ring
3	Disc / Stem	4	Body liner
5	Disc lining	6	Backliner
7	Nameplate screws	8	Nameplate
9	Bearing	10	Belleville washer
11	Pusher	12	Body bolt
13	DN bottom stem	14	DN bottom stem bolt
15	Lever	16	Lever screw
17	Position plate nuts	18	Position plate screws
19	Position plate	20	Lower body

API 609-A VALVES - BODY / DISC MATERIALS & SEATS

Body	Disc	Body + Disc Lining
DUCTILE IRON EN-GJS 400-15 (GS400)	STAINLESS STEEL ASTM A351 CF8M	PTFE
CARBON STEEL ASTM A216-WCB	DUPLEX [®] STAINLESS STEEL (F51/F53/F55)	PFA
STAINLESS STEEL ASTM A351 CF8M	-	-

-Other materials available on request-

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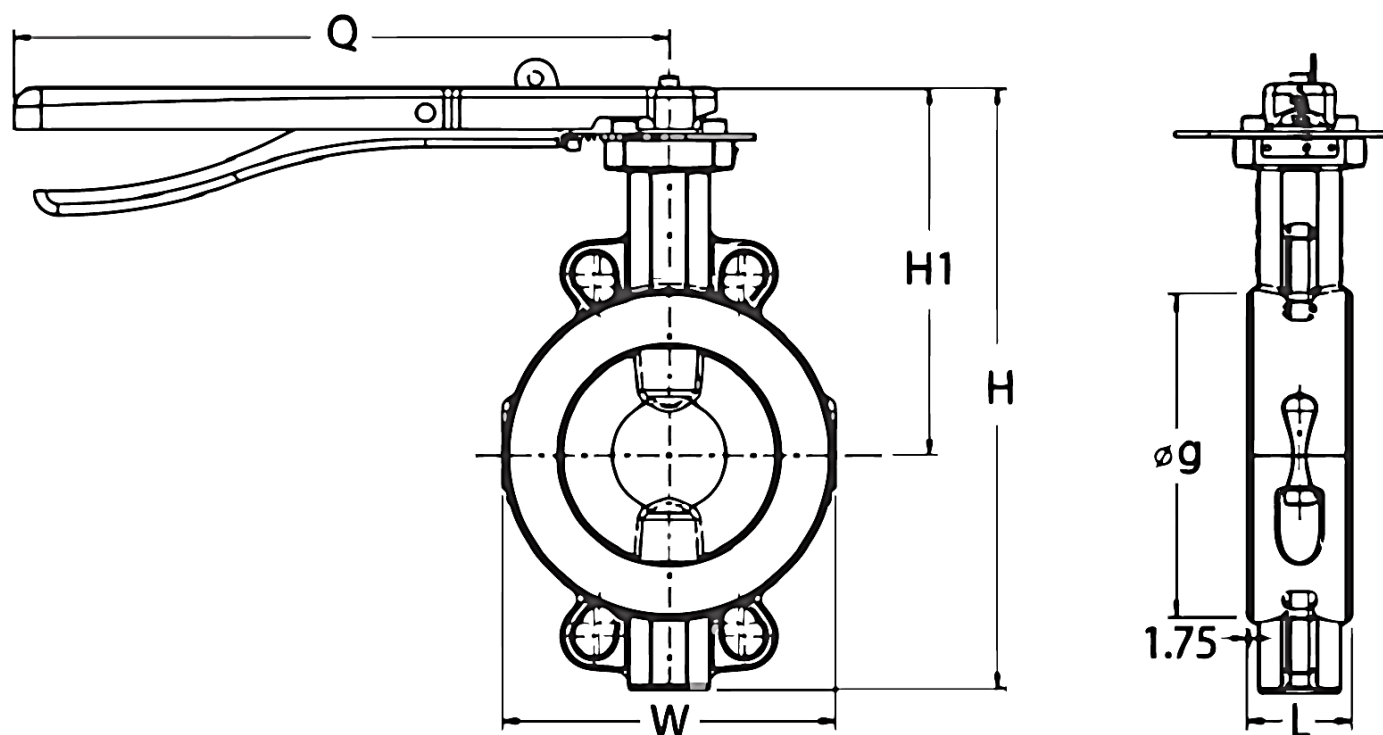


Fig. 2100 - WAFER BODY STYLE

Size	2"	2.1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"
DN	50	65	80	100	125	150	200	250	300	350	400
L	44	47	47	53	57	57	61	61	69	79	79
W	96	116	133	152	182	207	262	317	373	423	473
H	200	246	261	306	331	360	432	445	504	579	675
H1	147	157	164	190	202	218	252	265	295	335	379
ØK	120.7	139.7	152.4	190.5	215.9	241.3	298.5	298.5	362	431.8	476.3
Øg	90	110	126	146	176	201	256	256	307	363	413
j	4	4	4	8	8	8	8	8	12	12	12
Q	210	210	210	360	360	575	575	G.O.	G.O.	G.O.	G.O.
-	-	-	-	-	-	-	-	-	-	-	-

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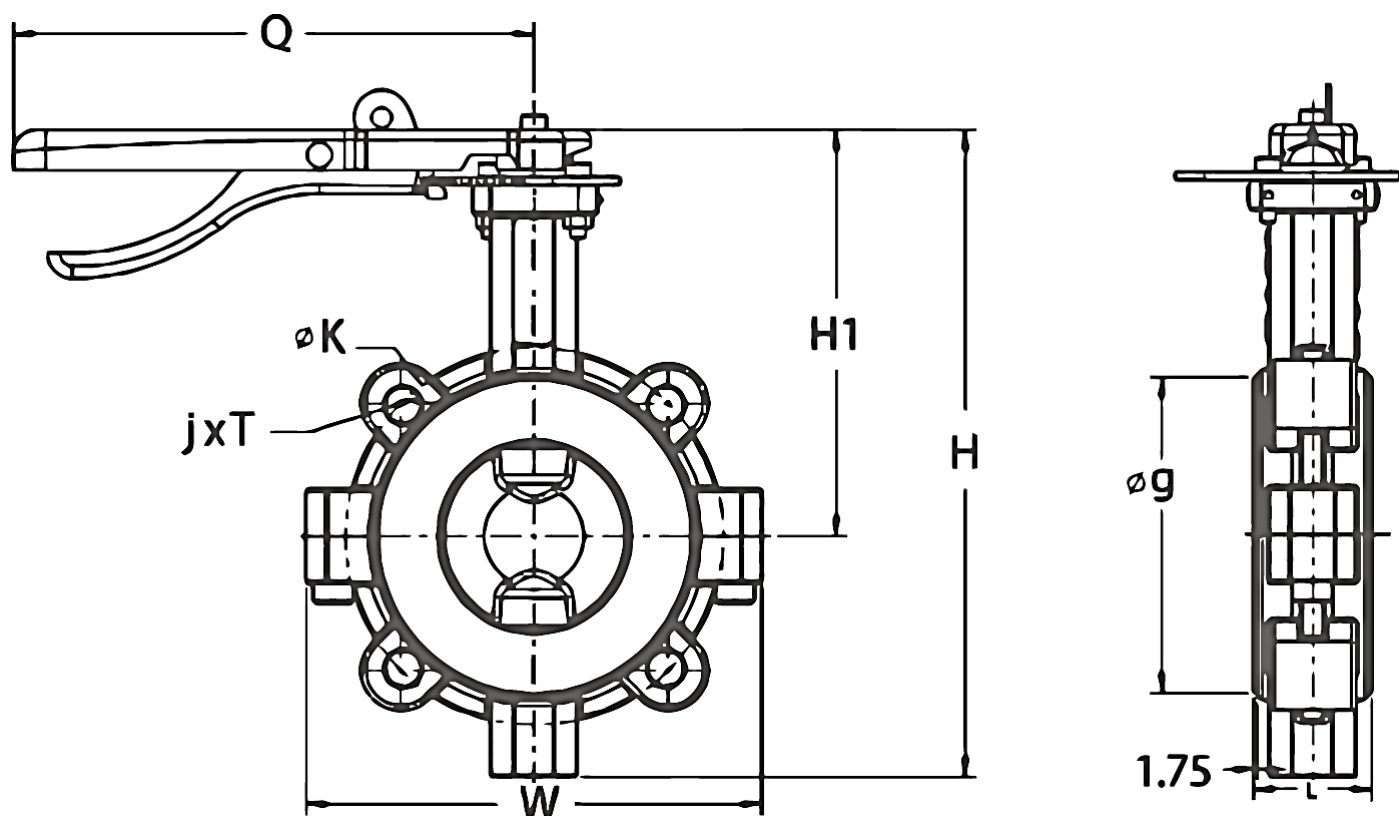


Fig. 2200 - LUG BODY STYLE

Size	2"	2.1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"
DN	50	65	80	100	125	150	200	250	300	350	400
L	44	47	47	53	57	57	61	61	69	79	79
W	152	178	200	229	254	280	343	406	483	535	597
H	200	246	261	306	331	360	432	445	504	579	675
H1	147	157	164	190	202	218	252	265	295	335	379
ØK	120.7	139.7	152.4	190.5	215.9	241.3	298.5	298.5	362	431.8	476.3
Øg	90	110	126	146	176	201	256	256	307	363	413
T	5/8-11 UNC	5/8-11 UNC	5/8-11 UNC	3/4-10 UNC	3/4-10 UNC	3/4-10 UNC	3/4-10 UNC	3/4-10 UNC	7/8-9 UNC	7/8-9 UNC	1-8 UNC
j	4	4	4	8	8	8	8	8	12	12	12
Q	210	210	210	360	360	575	575	G.O.	G.O.	G.O.	G.O.

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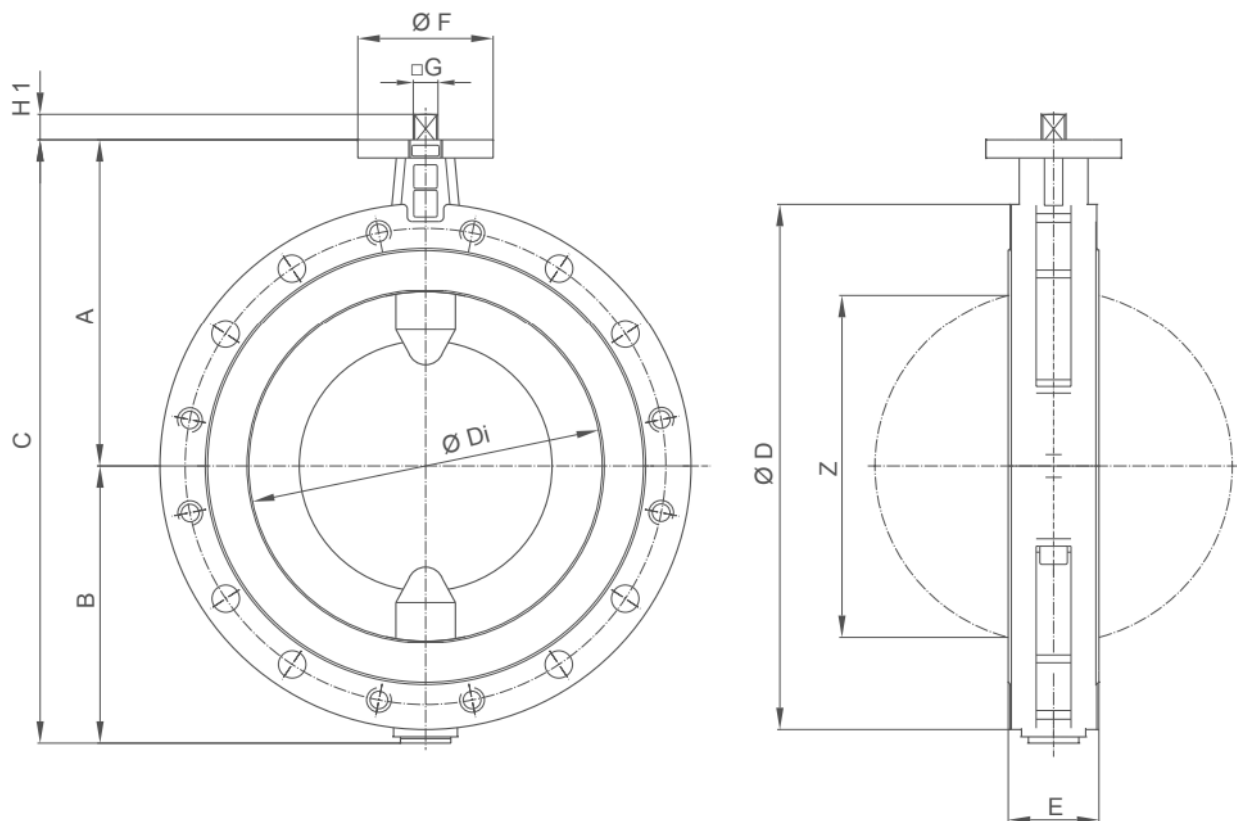


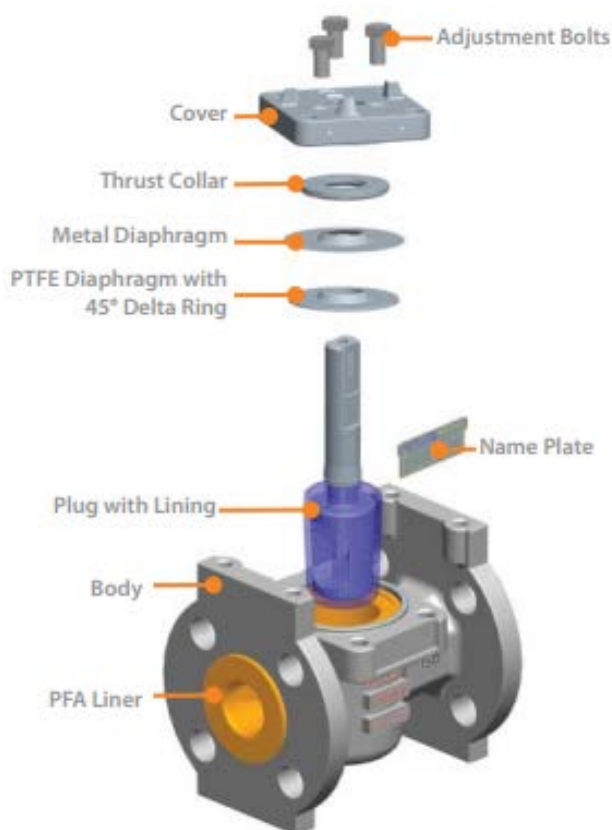
Fig. 2300 – DOUBLE FLANGED – “U” SECTION

Size	14"	16"	18"	20"	24"
DN	350	400	450	500	600
A	330	360	397	437	498
B	277	305	363	390	462
C	607	665	760	827	960
D	535	580	639	715	830
Di	338	389	437	490	579
E	92	102	114	127	154
F	150	150	175	175	210
G	27	27	36	36	46
H1	29	29	38	38	48
Z	327	377	423	475	560

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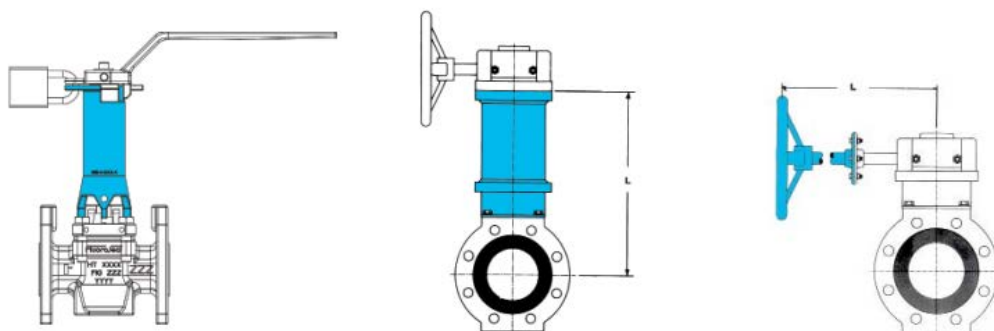
PLUG VALVES

CAST IRON & STEEL – API 599



STANDARD FEATURES

- **Construction:** Fire-Safe
Adjustable seal
Cavity-free design
360° Seal area
- **Design:** API 608
- **Ends:** Flat face flanged
- **Testing:** EN 12266-1 Rate A
- **Rating:** ASME B16.34
- **Marking:** MSS-SP 25
CE – PED
- **Certificates:** EN 10204 – 3.1 B



API 609-B VALVES - BODY/DISC MATERIALS & SEATS

Body / Cover	Plug	Plug Lines
DUCTILE IRON EN-GJS-400-15 or EQUAL	DUCTILE IRON EN-GJS-400-15 or EQUAL	PFA
CARBON STEEL ASTM A216 WCB	CARBON STEEL ASTM A216 WCB	PFA (unpigmented)
STAINLESS STEEL ASTM A351 CF8M	STAINLESS STEEL ASTM A351 CF8M	Unlined
ALLOY 20 – A351 CN7M	HASTELLOY [®] B/C	-
DUPLEX A890 4A/5A/6A	ALLOY 20 – A351 CN7M	-

-Other materials available on request-

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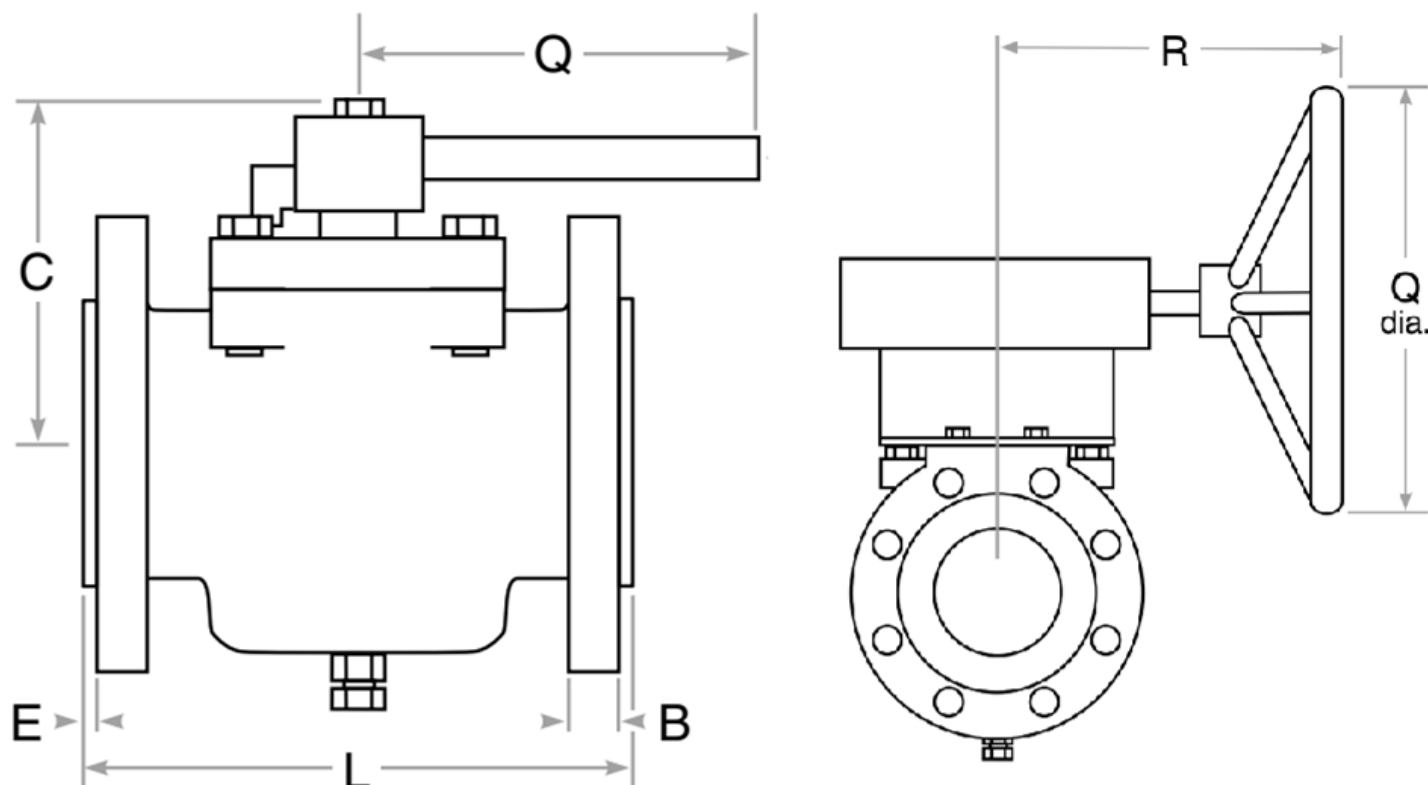


Fig. 4500 Class #150	Ø		½"	¾"	1"	1. 1/2"	2"	3"	4"	6"	8"	10"	12"
	Flange thickness	B mm.	11	12	13	16	18	22	22	24	23	33	36
	Center to top	C mm.	140	140	140	145	165	178	221	309	525	693	720
	Raised face	E mm.	3	3	3	4.1	3.6	3	4.1	4.1	4.1	4.1	4.1
	End to end	L mm.	109	117	127	165	178	203	229	267	292	330	356
	Lever length	Q mm.	259	259	259	259	409	409	673	-	-	-	-
	Handwheel dia.	Q mm.	-	-	-	-	-	-	250	350	500	600	600
	Center to handwheel	R mm.	-	-	-	-	-	-	-	285	320	370	370

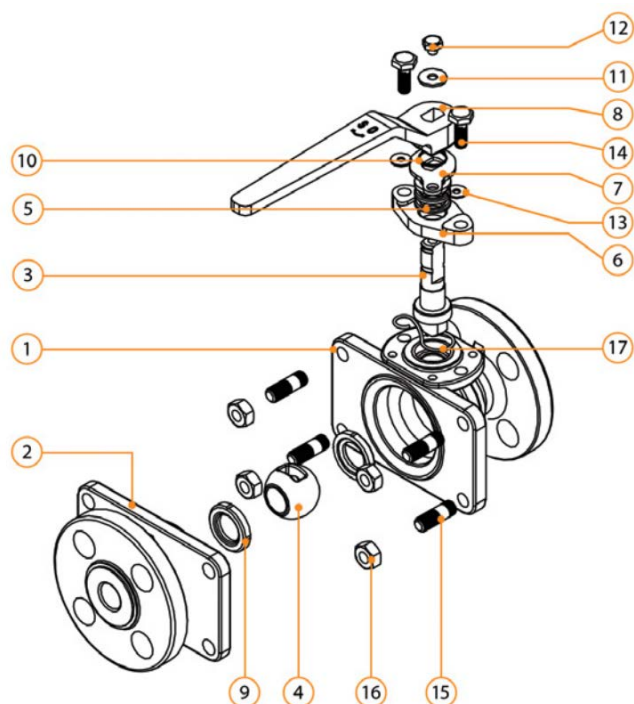
Fig. 4510 Class #300	Ø		½"	¾"	1"	1. 1/2"	2"	3"	4"	6"	8"	10"	12"
	Flange thickness	B mm.	13	15	16	19	22	27	30	35	39	46	-
	Center to top	C mm.	140	140	140	145	165	178	221	309	525	693	-
	Raised face	E mm.	4.1	6.1	6.6	6.6	6.6	7.1	7.1	7.1	4.1	4.1	-
	End to end	L mm.	140	152	165	191	216	282	305	404	419	457	-
	Lever length	Q mm.	259	259	259	259	409	409	673	-	-	-	-
	Handwheel dia.	Q mm.	-	-	-	-	-	-	250	350	500	600	-
	Center to handwheel	R mm.	-	-	-	-	-	-	-	285	320	370	-

Fig. (on request) Class PN16	Ø		½"	¾"	1"	1. 1/2"	2"	3"	4"	6"	8"	10"	12"
	Flange thickness	B mm.	12	16	14	15	17	19	19	23	24	33	36
	Center to top	C mm.	140	140	140	145	165	178	221	309	525	693	720
	Raised face	E mm.	6	6	6.5	6.5	6.5	7	7	4	4.1	4.1	4.1
	End to end	L mm.	130	150	160	200	230	310	350	350	400	450	500
	Lever length	Q mm.	259	259	259	259	409	409	673	-	-	-	-
	Handwheel dia.	Q mm.	-	-	-	-	-	-	250	350	500	600	600
	Center to handwheel	R mm.	-	-	-	-	-	-	-	285	320	370	370

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BALL VALVES

CAST IRON & STEEL – ASME B16.32



STANDARD FEATURES

- **Construction:** Fire-Safe
Locked-in fluoroplastic liner
Antistatic design
Anti Blowout stem
- **Design:** ASME B16.32
- **Ends:** Raided/flat face flanged
- **Testing:** EN 12266-1 Rate A
- **Rating:** ASME B16.34
- **Marking:** MSS-SP 25
CE – PED
- **Certificates:** EN 10204 – 3.1 B

No.	Part	No.	Part
1	Body	2	Cap
3	Stem	4	Ball
5	Gland packing	6	Gland flange
7	Triangle stopper	8	Lever
9	Seat	10	C-ring
11	Washer	12	Bolt
13	Washer	14	Gland bolt
15	Body stud bolt	16	Body nut
17	Antistatic spring	-	-

API 609-A VALVES - BODY/DISC MATERIALS & SEATS

Body/end	Ball	Body + Ball Lining
DUCTILE IRON EN-GJS 400-15 (GS400)	STAINLESS STEEL ASTM A351 CF8M	PTFE
CARBON STEEL ASTM A216-WCB	DUPLEX [®] STAINLESS STEEL (F51/F53/F55)	PFA
STAINLESS STEEL ASTM A351 CF8M	-	-

-Other materials available on request-

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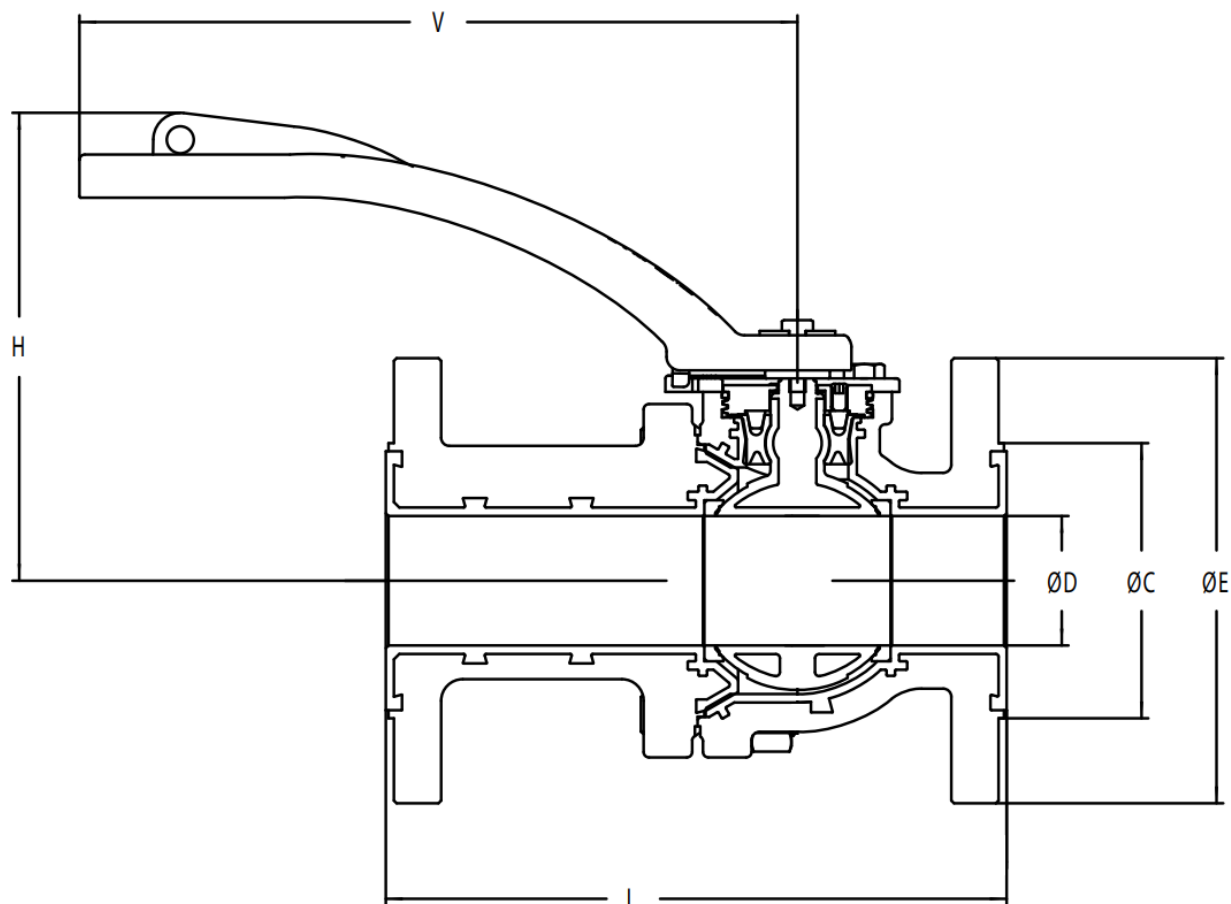


Fig. 4705 Class #150 Short Pattern	Ø		½"	¾"	1"	1.1/2"	2"	3"	4"	6"
	End to end	L mm.	130	150	127	165	178	203	229	267
	Center to top	H mm.	140	140	140	183	191	216	242	271
	Lever length	V mm.	170	170	170	266	266	350	350	350
	ØD mm.		15	20	23	37	47	75	97	145
	ØC mm.		35	43	51	73	92	127	157	216
	ØE mm.		89	98	108	127	152	191	229	279

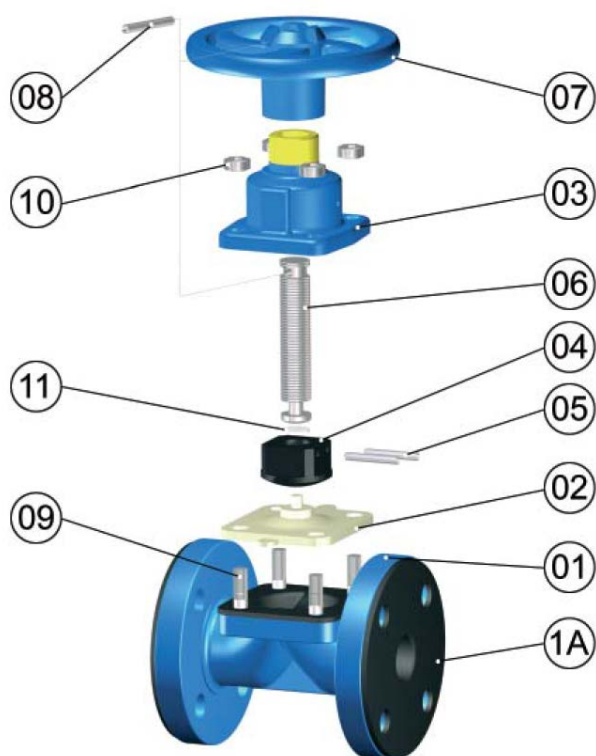
Fig. 4715 Class #150 Long Pattern	Ø		½"	¾"	1"	1.1/2"	2"	3"	4"	6"
	End to end	L mm.	130	150	152.3	178	203	241	292	356
	Center to top	H mm.	140	140	140	183	191	216	242	271
	Lever length	V mm.	170	170	170	266	266	350	350	350
	ØD mm.		15	20	23	37	47	75	97	145
	ØC mm.		35	43	51	73	92	127	157	216
	ØE mm.		89	98	108	127	152	191	229	279

Fig. 4710 Class PN16	Ø		½"	¾"	1"	1.1/2"	2"	3"	4"	6"
	End to end	L mm.	130	150	160	200	230	310	350	480
	Center to top	H mm.	140	140	140	183	191	216	242	271
	Lever length	V mm.	170	170	170	266	266	350	350	350
	ØD mm.		15	20	23	37	47	75	97	145
	ØC mm.		45	58	68	88	102	138	158	212
	ØE mm.		95	105	115	150	165	200	220	285

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DIAPHRAGM VALVES

CAST IRON & STEEL –MSS-SP-88-1993



STANDARD FEATURES

- **Construction:** Weir or Straight through
Greased for all life
Bolted bonnet
Inside screw
- **Design:** ASME B16.32
- **Ends:** Raided/flat face flanged
- **Testing:** EN 12266-1 Rate A
- **Rating:** ASME B16.34
- **Marking:** MSS-SP 25
CE – PED
- **Certificates:** EN 10204 – 3.1 B

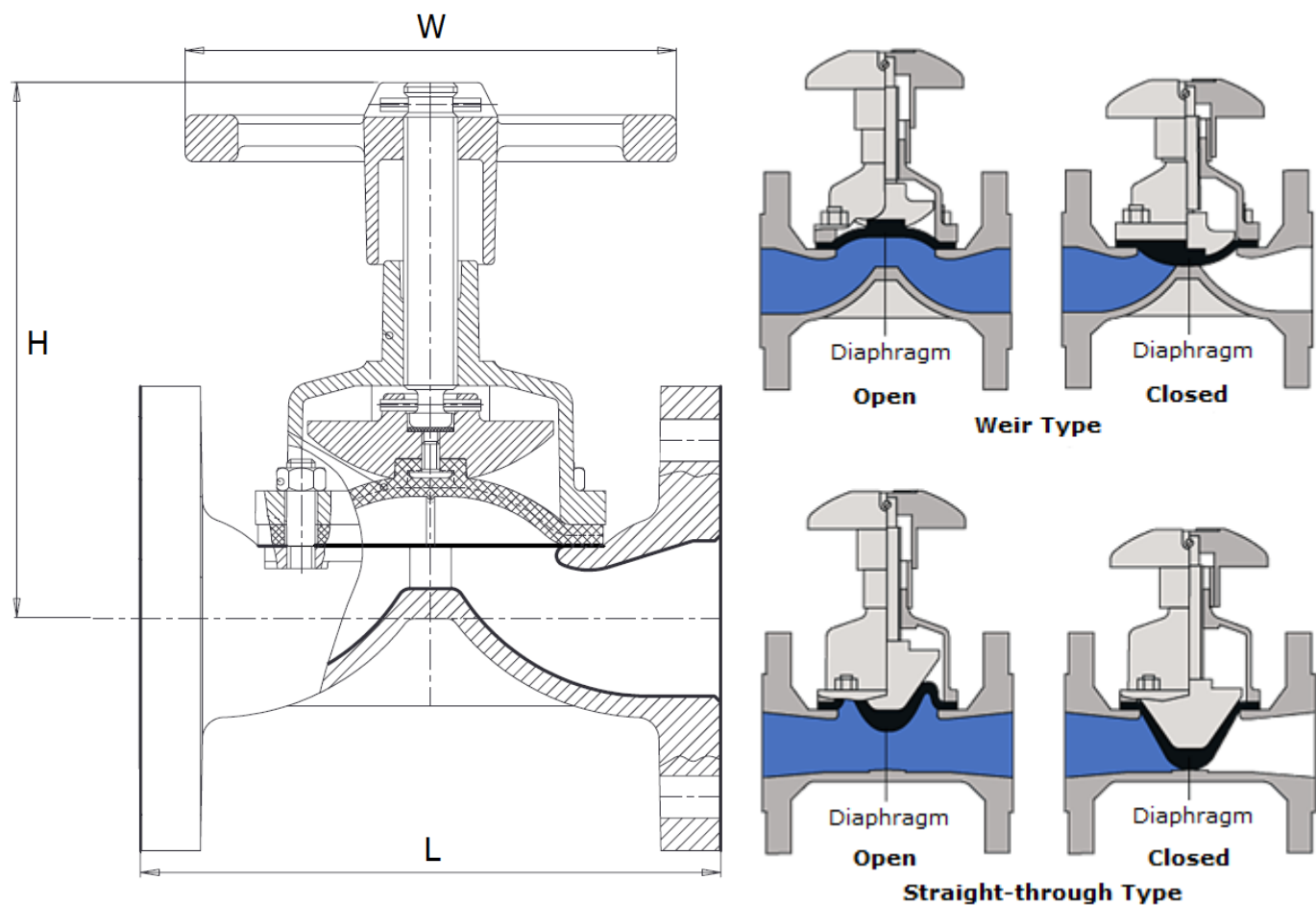
No.	Part	No.	Part
1	Body	2	Diaphragm
3	Bonnet	4	Compressor
5	Compressor pin	6	Spindle
7	Handwheel	8	Handwheel pin
9	Body studs	10	Body nuts
11	Thrust washer	A1	Body lining

MSS-SP-88-1993 VALVES - BODY/LINING/DIAPHRAGM MATERIALS

Body/Bonnet	Lining	Diaphragm
DUCTILE IRON EN-GJS 400-15 (GS400)	EPDM, Soft rubber, Butyl, NBR	EPDM, Soft rubber, Butyl, NBR
CARBON STEEL ASTM A216-WCB	ETFE, PVDF, PFA, Halar [®]	PTFE, Fluorelastomer
STAINLESS STEEL ASTM A351 CF8M	Ebonite (Hard rubber)	-

-Other materials available on request-

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Face to face dimensions according to BS 5156

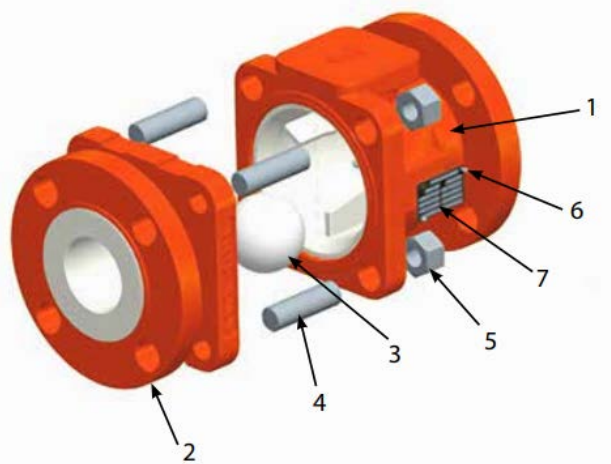
Fig. 2412/12 Class #150 / PN16	Ø	½"	¾"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	4"	5"	6"	8"	10"	12"
	L mm.	108	117	127	146	159	190	216	254	305	356	406	521	635	749
	H mm. open	109	117	140	143	172	190	230	242	326	391	468	680	802	971
	H mm. close	103	109	130	131	152	166	195	202	275	326	390	560	657	796
	V mm.	100	100	120	120	120	164	220	240	270	270	360	460	600	700

Face to face dimensions according to DIN 3002 F1

Fig. 2415/16/18 Class #150 / PN16	Ø	½"	¾"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	4"	5"	6"	8"	10"	12"
	L mm.	130	150	160	180	200	230	290	310	350	400	480	600	730	850
	H mm. open	109	117	140	143	172	190	230	242	326	391	468	680	802	971
	H mm. close	103	109	130	131	152	166	195	202	275	326	390	560	657	796
	V mm.	100	100	120	120	120	164	220	240	270	270	360	460	600	700

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BALL CHECK VALVES CAST IRON & STEEL



STANDARD FEATURES

- **Construction:** Bolted body
- **Design:** Acc. to standard manufacturer
- **Ends:** Raided/flat face flanged
- **Testing:** EN 12266-1 Rate A
- **Rating:** ASME B16.34
- **Marking:** MSS-SP 25
CE – PED
- **Certificates:** EN 10204 – 3.1 B

No.	Part	No.	Part
1	Body	2	Flange
3	Ball	4	Stud
5	Nut	6	Nameplate
7	Nameplate pins	-	-
MSS-SP-88-1993 VALVES - BODY/LINING/DIAPHRAGM MATERIALS			
Body / Flange		Lining	Ball
DUCTILE IRON EN-GJS 400-15 (GS400)		PFA, ETFE, PDVF	Solid PTFE
CARBON STEEL ASTM A216-WCB			
-Other materials available on request-			

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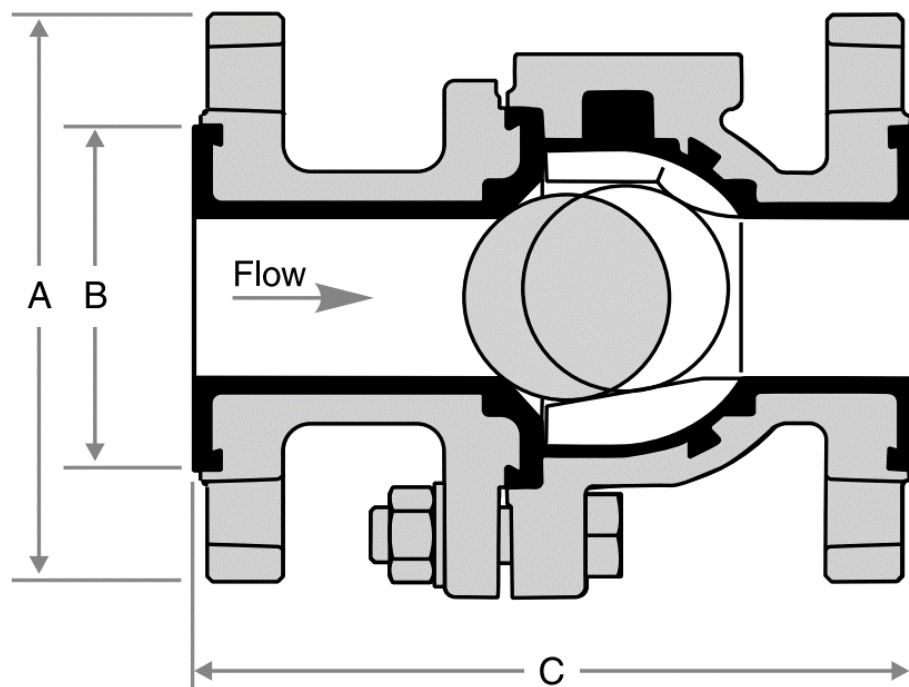


Fig. Xxxx Class #150 Short pattern	Ø		½"	¾"	1"	1.1/2"	2"	3"	4"	6"
	End to end	C mm.	-	-	127	165	178	203	229	267
	ØA mm.		-	-	108	127	152	191	229	279
	ØB mm.		-	-	51	73	92	127	157	216

Fig. Xxxx Class #150 Long pattern	Ø		½"	¾"	1"	1.1/2"	2"	3"	4"	6"
	End to end	C mm.	130	150	152.3	178	203	241	292	356
	ØA mm.		89	98	108	127	152	191	229	279
	ØB mm.		35	43	51	73	92	127	157	216

Fig. Xxxx PN 16	Ø		½"	¾"	1"	1.1/2"	2"	3"	4"	6"
	End to end	C mm.	130	150	160	200	230	310	350	480
	ØA mm.		95	105	115	150	165	200	220	285
	ØB mm.		40	52	62	82	96	132	152	206

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SINGLE PLATE CHECK VALVES

CAST IRON & STEEL

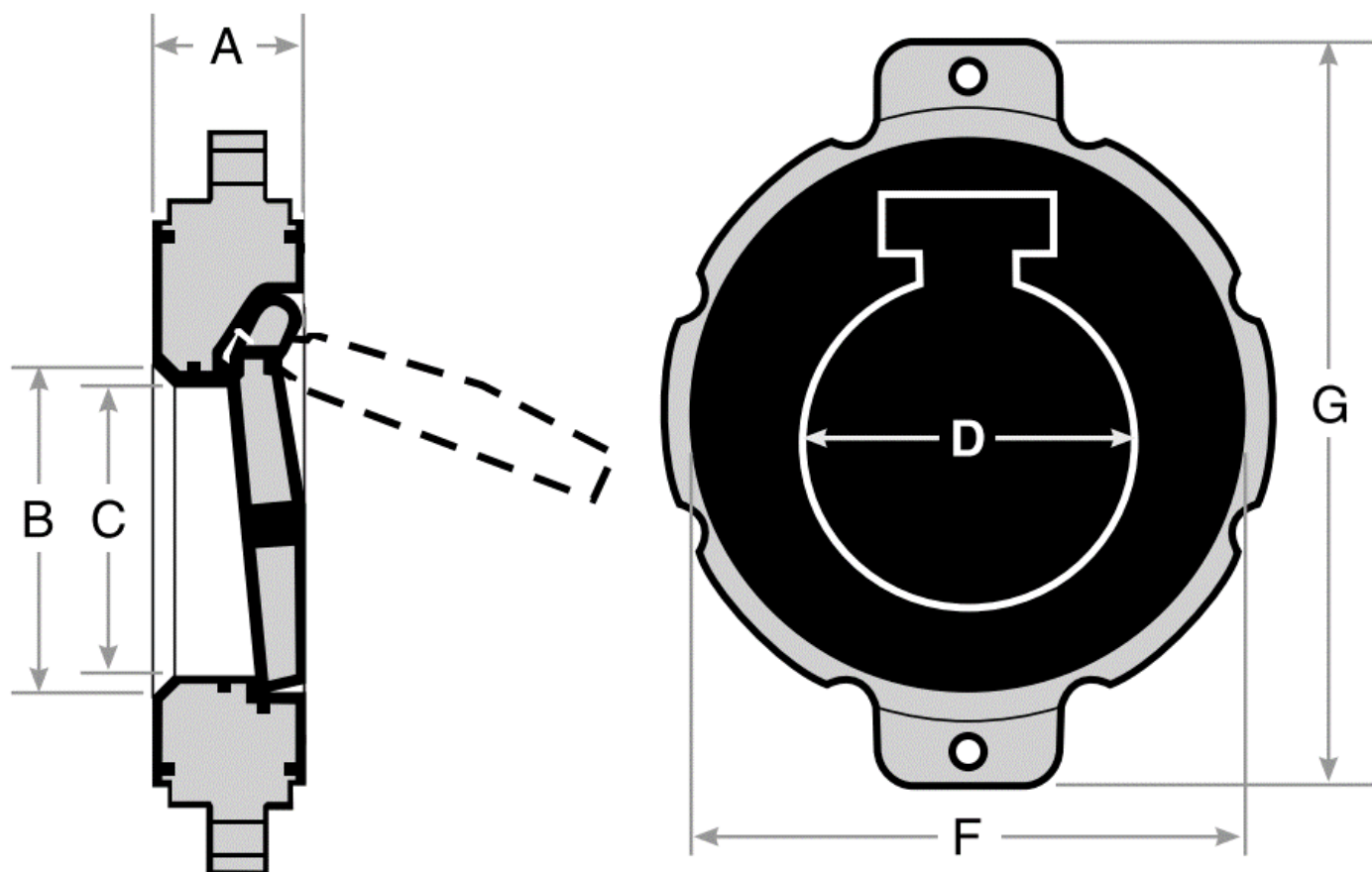


STANDARD FEATURES

- **Construction:** Wafer body
Retainerless
- **Design:** Acc. to standard manufacturer
- **Ends:** Raised face flanged
- **Testing:** EN 12266-1 Rate A
- **Rating:** ASME B16.34
- **Marking:** MSS-SP 25
CE – PED
- **Certificates:** EN 10204 – 3.1 B

No.	Part	No.	Part
1	Body	2	Disc
3	Lining	-	-
MSS-SP-88-1993 VALVES - BODY/LINING/DIAPHRAGM MATERIALS			
Body / Flange	Lining	Disc	
DUCTILE IRON EN-GJS 400-15 (GS400)	PFA, ETFE, PDVF	PFA lined ductile iron	
CARBON STEEL ASTM A216-WCB			
-Other materials available on request-			

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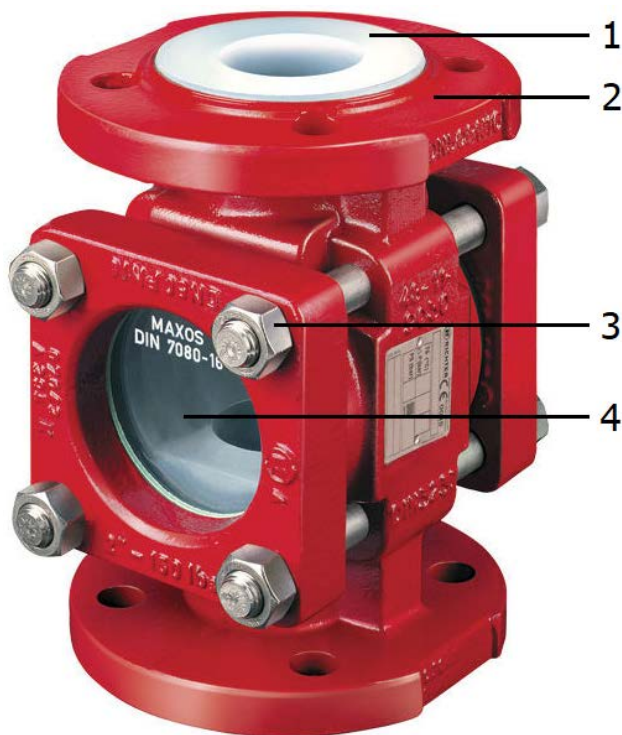


		Ø	3"	4"	6"	8"	10"	12"
Fig. 1462/66 Class #150 / PN16	End to end	A mm.	46	46	57	67	68	78
		ØB mm.	58	84	128	176	222	272
		ØC mm.	42	65	111	133	184	232
		ØF mm.	128	162	212	267	317	367
		ØG mm.	178	226	279	343	394	442

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SIGHT GLASSES

CAST IRON & STEEL – EN-19 / ASME B16.34

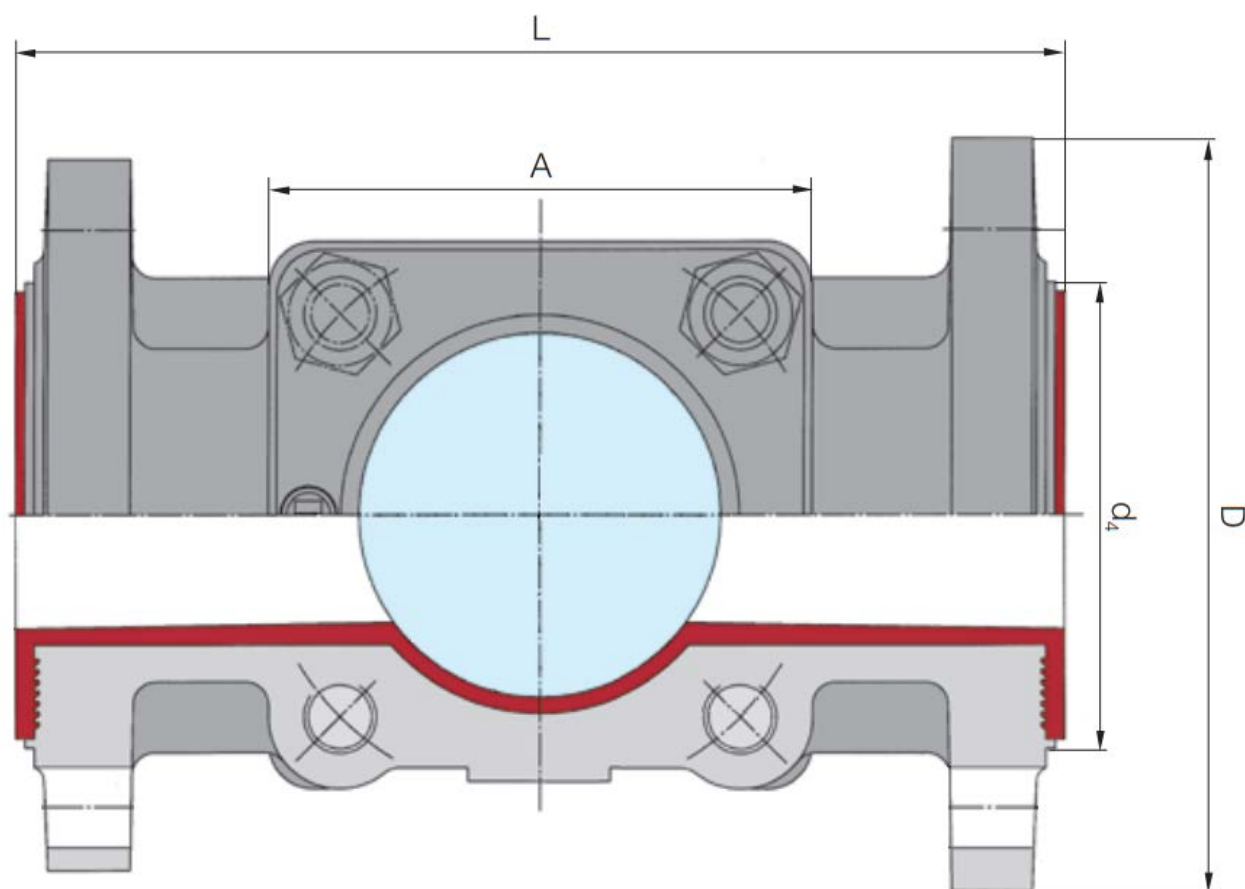


STANDARD FEATURES

- **Construction:** Bolted covers
- **Design:** DIN EN-19
ASME B16.34
- **Ends:** Raised/Flat face flanged
- **Testing:** EN 12266-1 Rate A
- **Rating:** ASME B16.34
- **Marking:** MSS-SP 25
CE – PED
- **Certificates:** EN 10204 – 3.1 B

No.	Part	No.	Part
1	Lining	2	Body
3	Stud/bolt	4	Glass
EN-19 / ASME B16.34 SIGHT GLASSES - BODY/LINING/GLASSES MATERIALS			
Body / Covers	Lining	Glasses	
DUCTILE IRON EN-GJS 400-15 (GS400)	PFA, ETFE, PDVF	Temperated, Borosilicate	
CARBON STEEL ASTM A216-WCB			
-Other materials available on request-			

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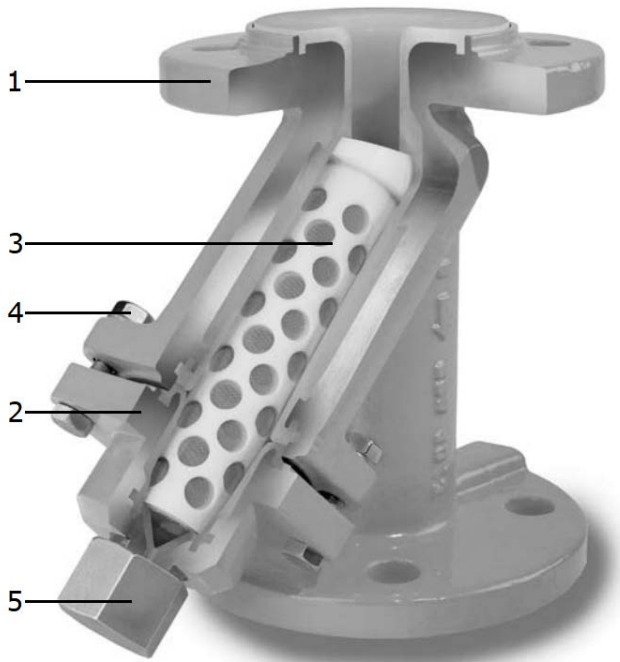


		Ø	½"	¾"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	4"	6"
Fig. 5790/5800 Class #150 / PN16	End to end	L mm.	130	150	160	180	200	230	290	310	350	480
	A mm.		80	85	85	100	110	120	178	190	210	250
	Ød4 mm.		45	58	68	78	88	102	120	138	158	212
	ØD mm.		95	105	115	140	150	165	185	200	225	285

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Y-STRAINERS

CAST IRON & STEEL – ASME B16.34

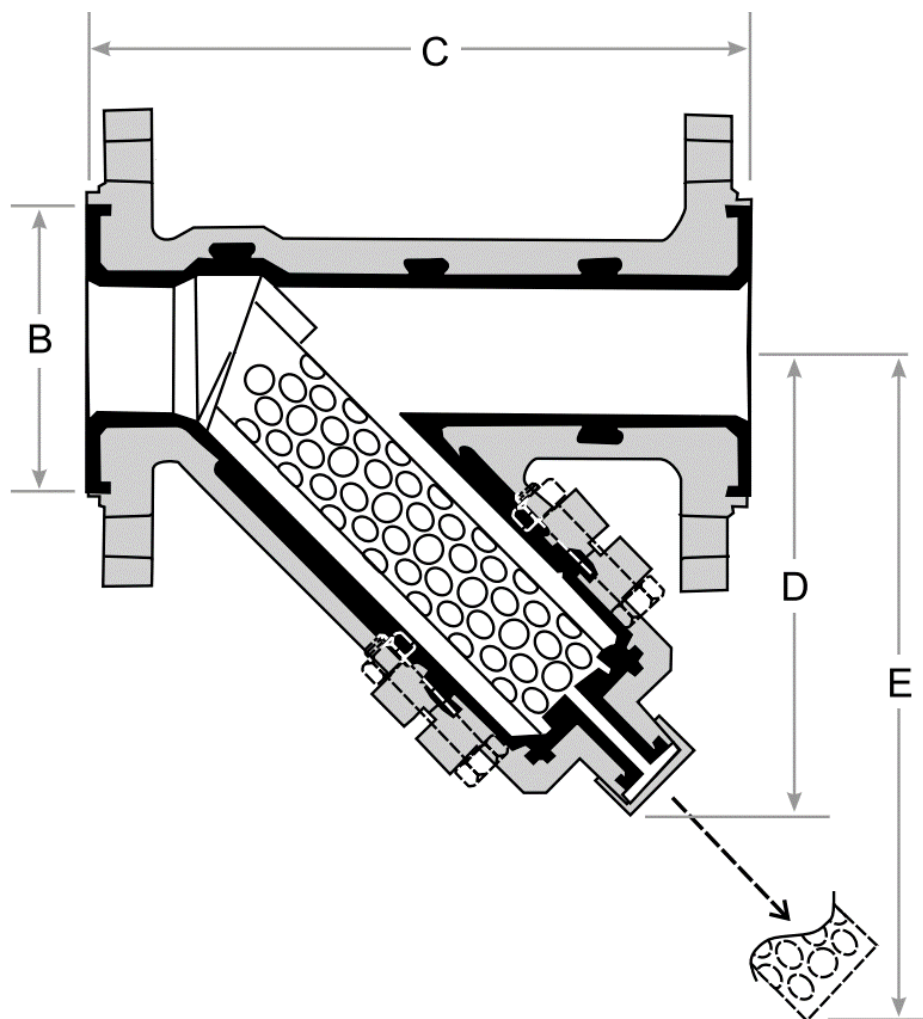


STANDARD FEATURES

- **Construction:** Bolted cover
Drain plug
- **Design:** ASME B16.34
- **Ends:** Raised/Flat face flanged
- **Testing:** EN 12266-1 Rate A
- **Rating:** ASME B16.34
- **Marking:** MSS-SP 25
CE – PED
- **Certificates:** EN 10204 – 3.1 B

No.	Part	No.	Part
1	Body	2	Cover
3	Screen	4	Nut/stud
5	Plug	-	-
ASME B16.34 STRAINERS - BODY/LINING/SCREEN MATERIALS			
Body /Covers		Lining	Screen
DUCTILE IRON EN-GJS 400-15 (GS400)		PFA, ETFE, PDVF	PTFE
CARBON STEEL ASTM A216-WCB			
-Other materials available on request-			

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



		Ø	½"	¾"	1"	1.1/2"	2"	3"	4"
Fig. 5700 Class #150 / PN16	End to end	C mm.	150	150	160	200	230	310	350
		ØB mm.	40	57	66	87	100	136	157
		D mm.	100	100	104	143	161	256	284
		E mm.	132	132	140	180	241	340	419

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