

ANTICORROSIVE COATED VALVES

CATALOG

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Air Shower



Parts Store

CLEAN ROOM

10000 CLASS
100000 CLASS



Assemble



Testing



Packing

Dust Free
Oil Free

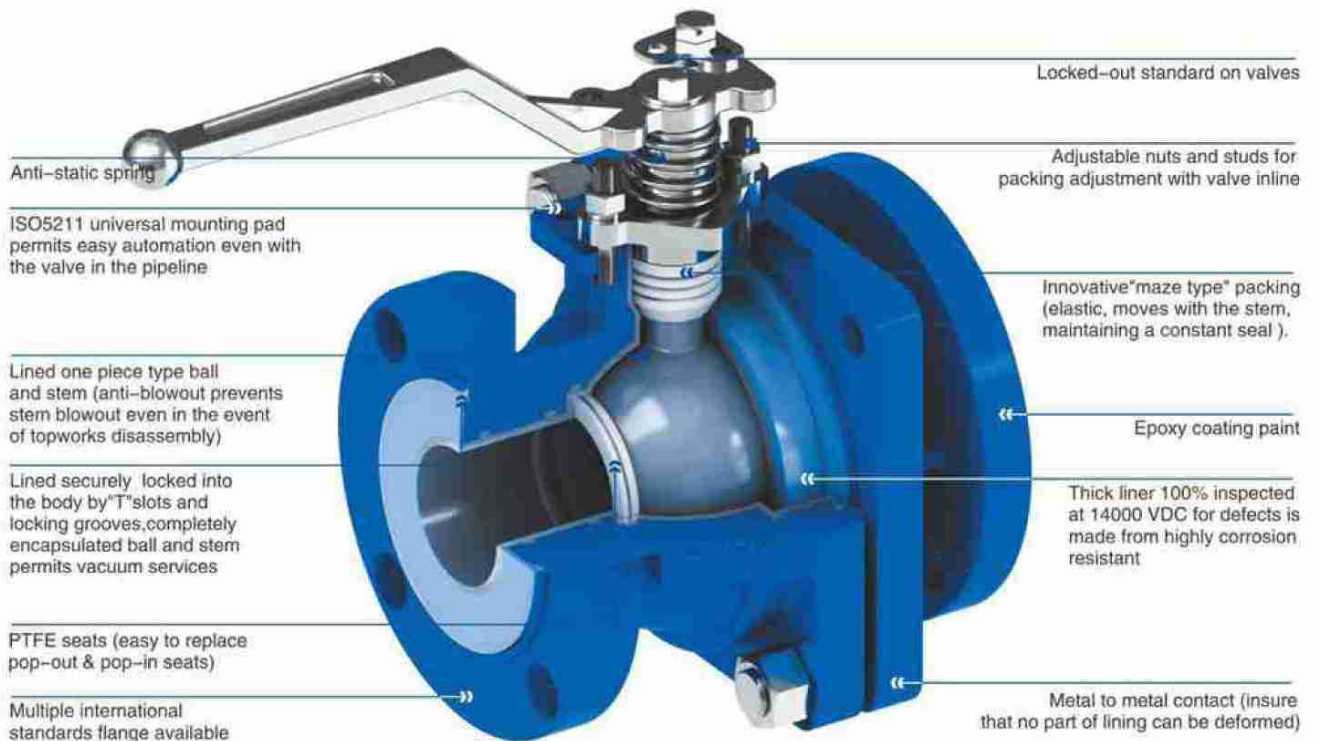
Lined ball valve

Size	15mm~300mm (0.5"~12")
Working pressure	0.1mbar~16 bar
Temperature range	-20° C ~ 200° C according to working conditions, other temperatures on request.
Design and Manufacture	API 608 DIN 3357 JIS B2071
Face to Face	ASME B16.10 DIN 3202 JIS B2002
Flange Ends	ASME B16.5 DIN 2532 JIS B2212
Visual Inspection	MSS Sp54
Testing	API 598 DIN 12569 JIS B2003
Pressure & Temperature	ASME B16.34
Operator Type	Lever/ Gear/ Pneumatic/ Electric
Spark testing	14kv



■ Lined ball valve

The ball valves are ideally suited for corrosive applications, requiring reliable performance, tight shutoff, and constant torque. The valves successfully handle a multitude of corrosive applications in industries such as chemical, petrochemical, pharmaceutical, pulp and paper, foundries and mining like sulphuric acid, etc.



Lined butterfly valve

Size	50mm-900mm (2"-36")
Working pressure	0.1mbar-10bar
Temperature range	-20° C - 200° C according to working conditions, other temperatures on request.
Design and Manufacture	API609 DIN EN1092 JIS B2032
Face to Face	ASME B16.10 DIN EN558. 1 JIS B2002
Flange Ends	ASME B16.5 DIN 2532 JIS B2212 (150lb, 10k, Pn10)
Visual Inspection	MSS Sp54
Testing	API 598 DIN 3230 JIS B2003
Pressure & Temperature	ASME B16.34
Operator Type	Lever/ Gear/ Pneumatic/ Electric
Spark testing	14kv



■ Lined butterfly valve

The butterfly valves'special feature is the seat ring design. The interference between the disc and the raised central area of the seat ring shuts off the flow completely. The resilient elastomeric seat cushion ensures reliable shut-off for the life of the valve.

The upper and lower positions of the seal ring, where the stem passes through, use a triple seal design to prevent leakage to the atmosphere.

Triple Seal Prevent Leakage

Primary Seal: ① Seat.

Secondary Seal: ② O ring

Tertiary Seal: ③ Taper PTFE seal ring

Stem design (Square, double-D, single key ,double key)

Self lubricating bushing could endure under pressure and three point form SL design could prevent disc be deformed

Double belleville springs exert uniform loading through the pusher, pressing the PTFE seal ring and the shoulder of the disc hub together resulting in a leak free mechanical stem seal

O-ring (the second seal)

Elastomer back-up immersed in body ensures zero leakage between disc and seat.

Two piece body (wafer and lug type)precision casting moulds with clear mark.

ISO5211 pad universal mounting permits easy automations even with the valves in the pipe line

Integral body locating holes to ensure perfect centering of the valves between flange. Applied to different international standard

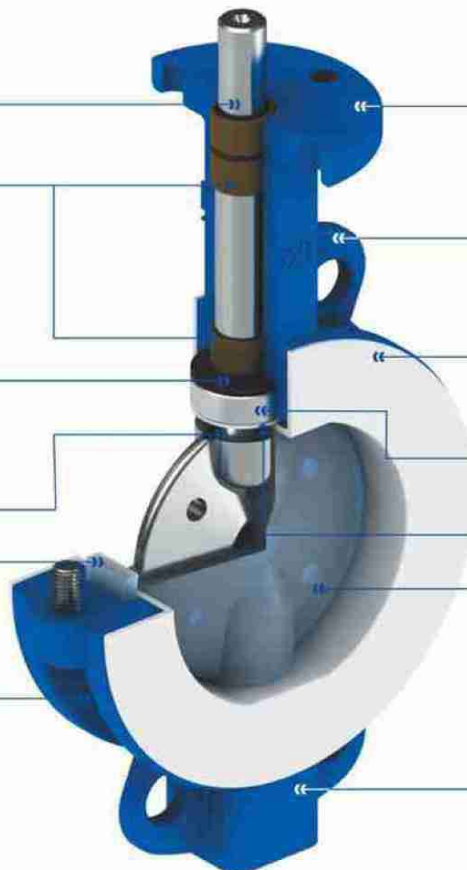
PTFE seat Precision machinery processing, extra wide spheroidal seat design provides positives shut off (the primary seal)

Taper metal seal cartridge (the third seal)

Taper PTFE sealing seal

One piece disc-stem, blow out-proof machined.Rated for full vacuum and thermal cycling. Minimum lined thickness 3mm eliminates permeations and possible delamination

Epoxy coating paint with baked finished



Lined diaphragm valve

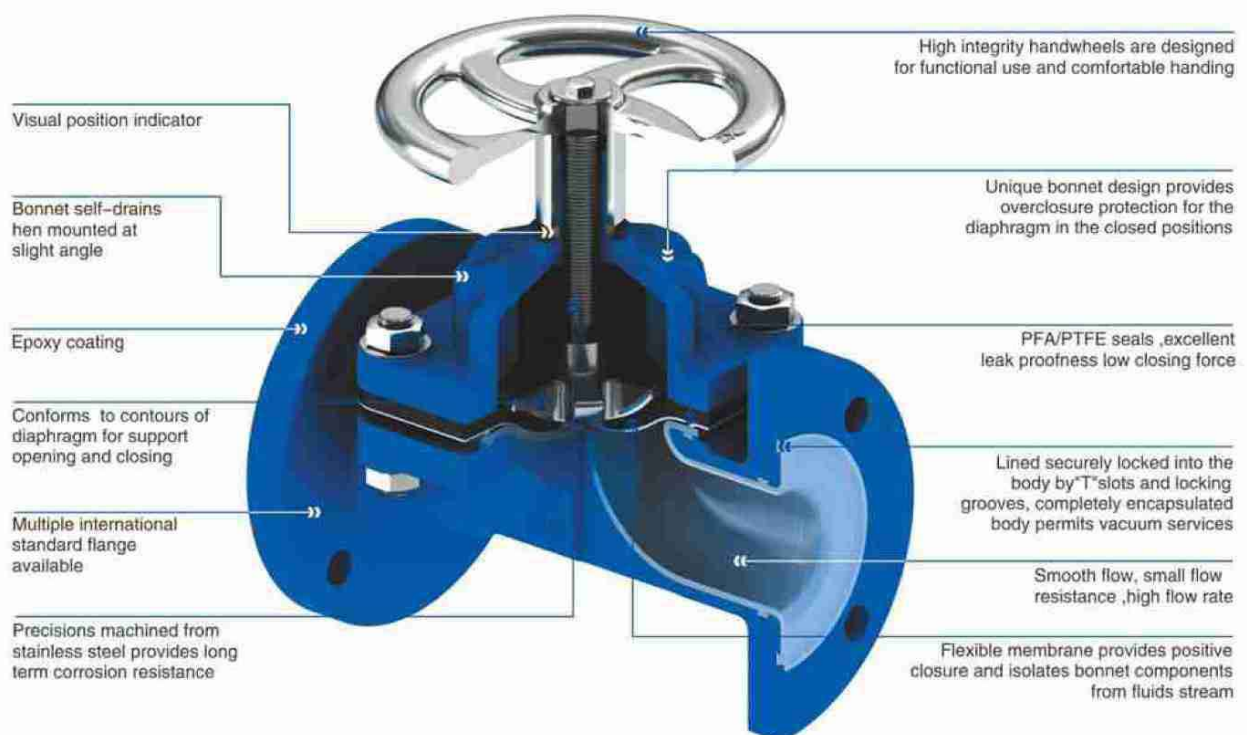
Size	15mm~300mm (0.5"~12")
Working pressure	0.1mbar~16 bar
Temperature range	-20° C ~ 200° C according to working conditions, other temperatures on request.
Design and Manufacture	MSS SP-88
Face to Face	ASME B16.10 DIN 3202 JIS B2002 → Manufacture Std.
Flange Ends	ASME B16.5 DIN 2532 JIS B2212
Visual Inspection	MSS Sp54
Testing	API 598 DIN 12569 JIS B2003
Pressure & Temperature	ASME B16.34
Operator Type	Hand wheel/Pneumatic
Spark testing	14kv



■ Lined diaphragm valve

Weir type diaphragm valve having rugged design to incorporating the best material available is proved by easy, smooth and maintenance free operation for a long time. Extra heavy-duty casting affords high resistance to atmospheric corrosion. Diaphragm valve reduces diaphragm travel for extended service and fine control.

A wide choice is available for body materials, body linings, types of operation and body end connections to satisfy the needs of most industrial applications. High quality standards are strictly maintained, each valve being checked for size, design pressure, operation, MOC, finish etc and within house painting.



Lined ball check valve

Size	15mm–200mm (0.5"–8")
Working pressure	0.1mbar–16 bar
Temperature range	–20° C – 200° C according to working conditions, other temperatures on request.
Design and Manufacture	API 594
Face to Face	ASME B16.10 DIN 3202 JIS B2002
Flange Ends	ASME B16.5 DIN 2532 JIS B2212
Visual Inspection	MSS Sp54
Testing	API 598 DIN 12569 JIS B2003
Pressure & Temperature	ASME B16.34
Spark testing	14kv



■ Lined ball check valve

The ball check valves are developed for use on fluids compatible with the corrosion resistant characteristics of virgin PFA. These valves can be used in horizontal and vertical installations. The body of the valve is made from a combination of ductile iron and steel. The body parts do not come into contact with the process flow.



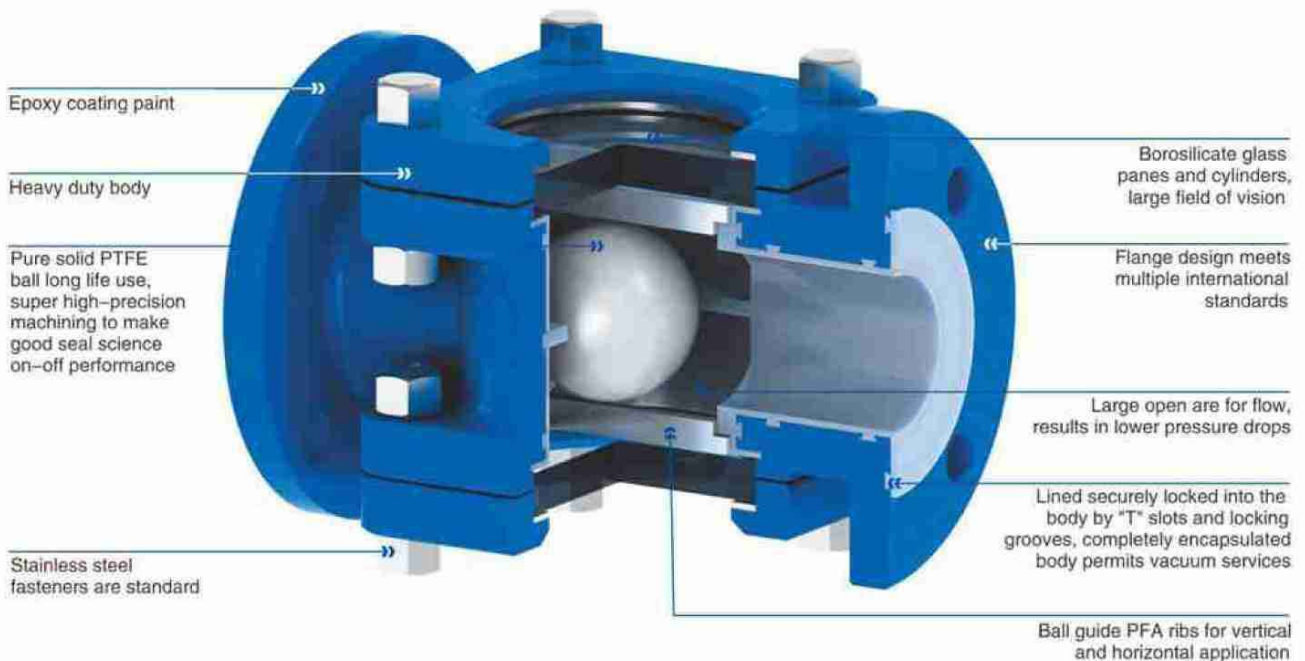
Lined ball check sight glass valve

Size	15mm–200mm (0.5"–8")
Working pressure	0.1mbar–16 bar
Temperature range	–20° C – 200° C according to working conditions, other temperatures on request.
Design and Manufacture	API 594
Face to Face	ASME B16.10 DIN 3202 JIS B2002
Flange Ends	ASME B16.5 DIN 2532 JIS B2212
Visual Inspection	MSS Sp54
Testing	API 598 DIN 12569 JIS B2003
Pressure & Temperature	ASME B16.34
Spark testing	14kv



■ Lined ball check sight glass valve

With pressure rating up to 19 bargs, the ball check valves sight glass are very robust, having integrated borosilicate windows each side of the ball check assembly makes it very easy to see if there is flow through the valve. No wetted metal parts are used. The valves are immune to most aggressive chemicals and are used in place of expensive exotic alloys.



Wafer type swing check valve

Size	40mm-600mm (1.5"-24")
Working pressure	0.1mbar-16 bar
Temperature range	-20° C ~ 200° C according to working conditions, other temperatures on request.
Design and Manufacture	API 594
Face to Face	DIN EN 558 ASME/ANSI B 16.10
Flange Ends	DIN EN 1092 ANSI B 16.5
Visual Inspection	MSS Sp54
Testing	API 598 DIN 3230 JIS B2003
Pressure & Temperature	ASME B16.34
Spark testing	14kv



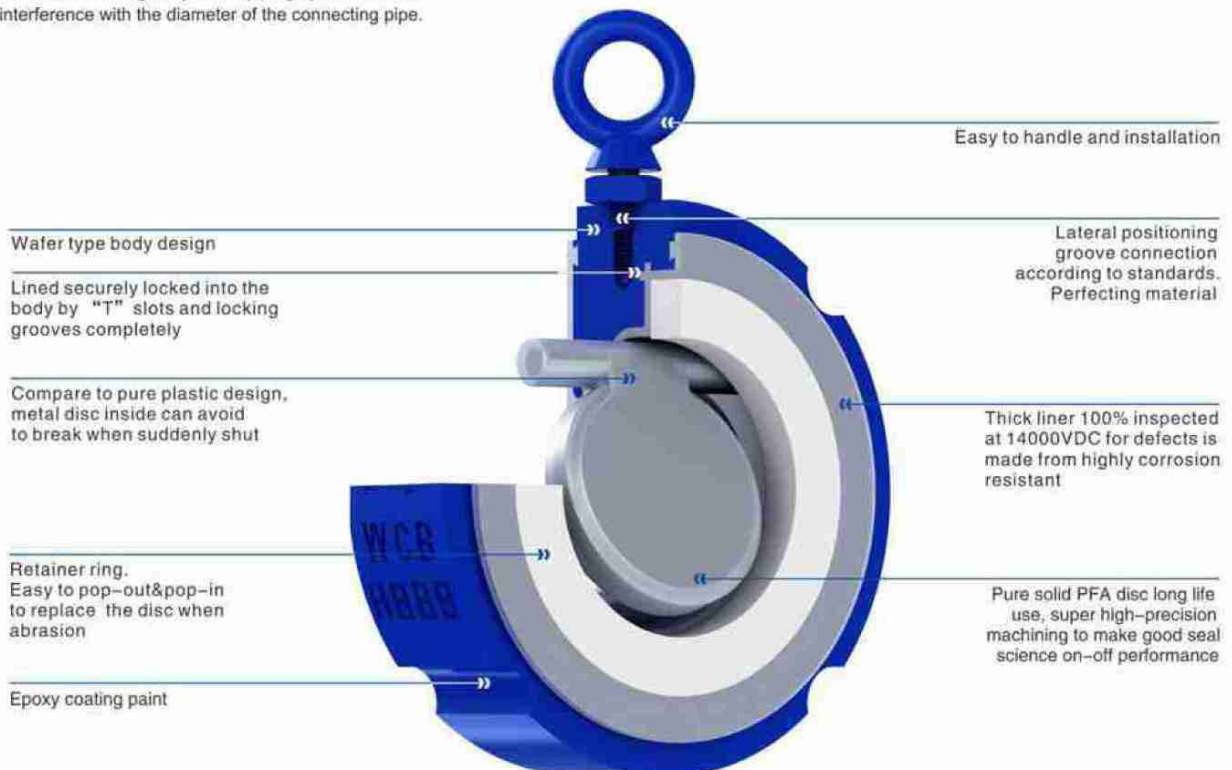
■ Wafer type swing check valve

Fully lined swing check valves are ideal for use in highly corrosive applications due to the universal chemical resistance of fluoropolymer lining.

These valves can be used in horizontal and vertical installations due to the special design of the hinge pin, which enables the disc to achieve a seal with out support of any system pressure.

2- Piece design eliminating a potential leak path with a seat face integrated in the body liner to seal against the disc in the closed position.

The disc can swing freely within piping system without interference with the diameter of the connecting pipe.





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Ball Valve



Lined ball valve

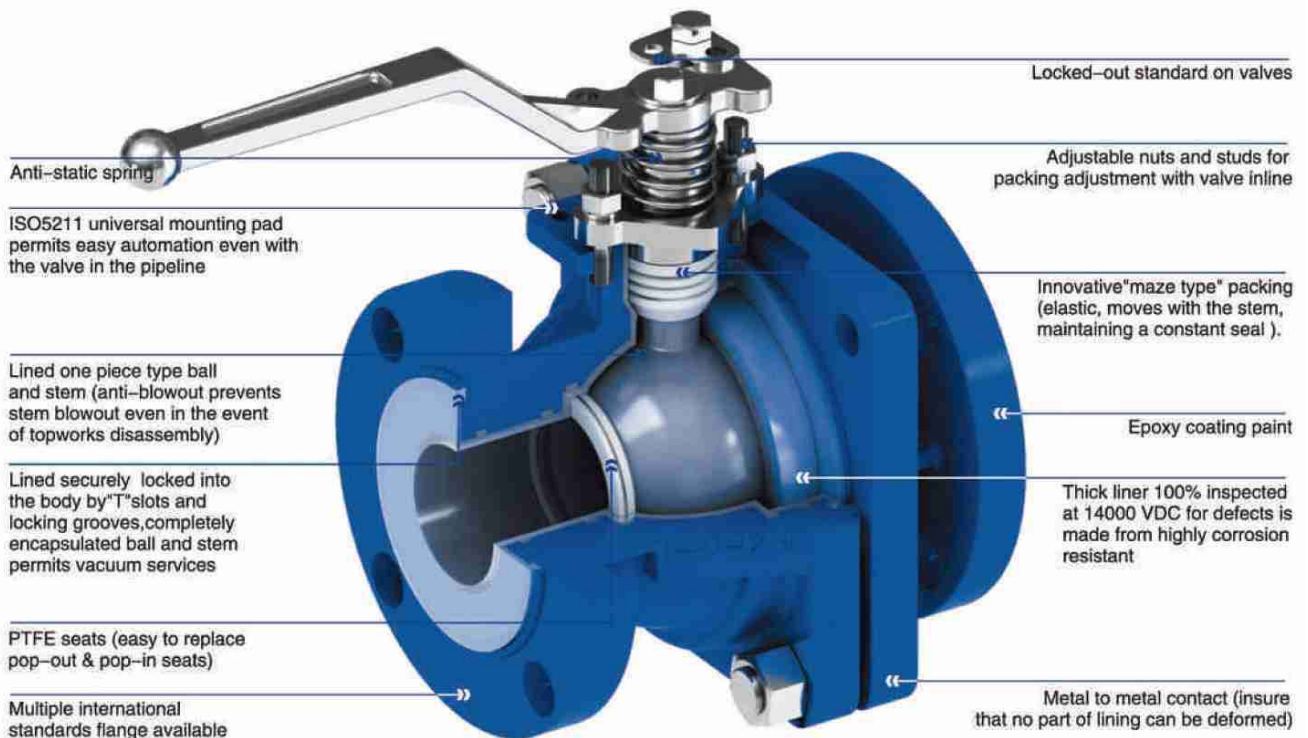
Lined ball valve

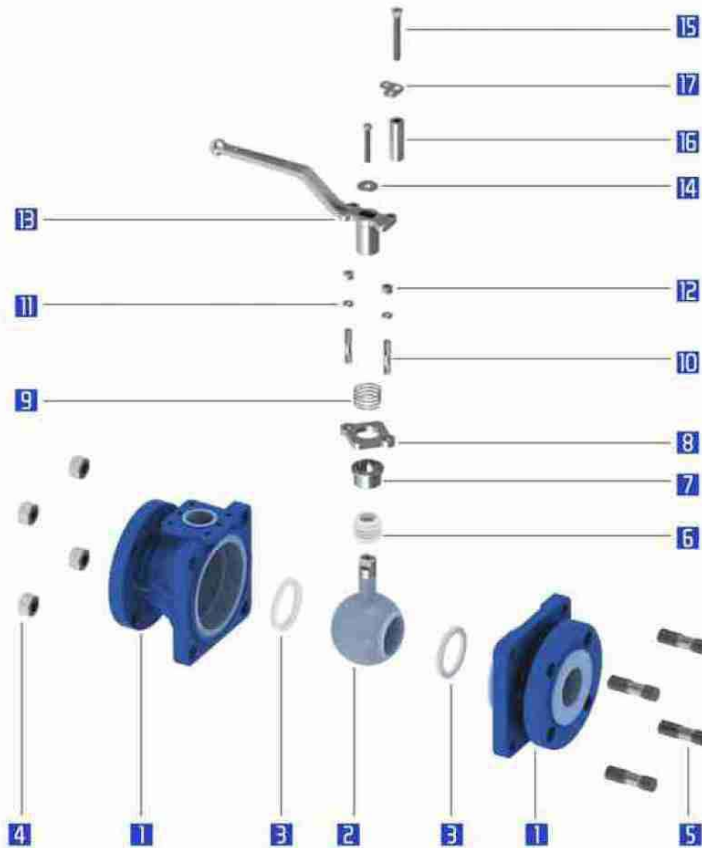
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Visual Inspection	MSS Sp54
Testing	API 598 DIN 12569 JIS B2003
Pressure & Temperature	ASME B16.34
Operator Type	Lever/ Gear/ Pneumatic/ Electric
Spark testing	14kv



■ Lined ball valve

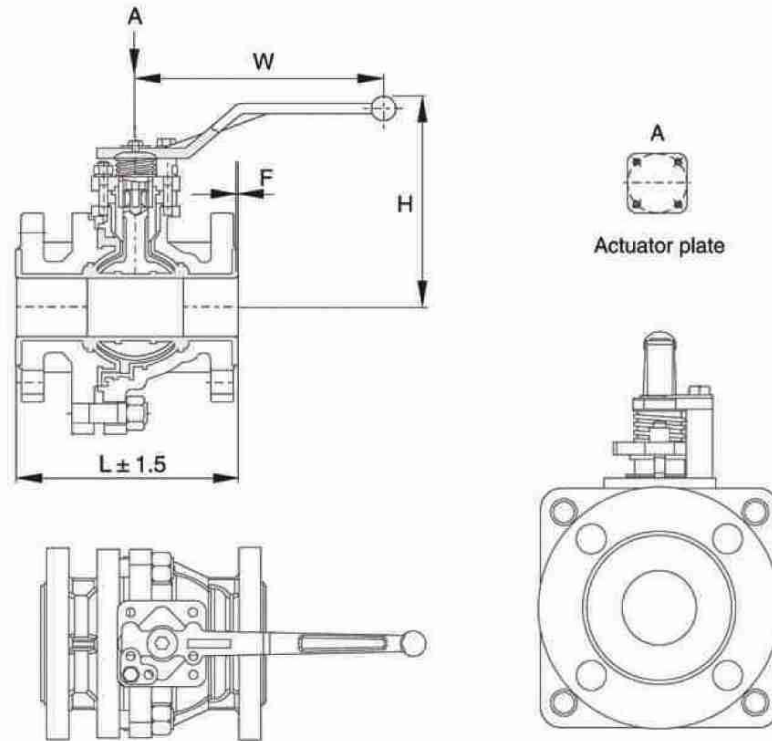
The ball valves are ideally suited for corrosive applications, requiring reliable performance, tight shutoff, and constant torque. The valves successfully handle a multitude of corrosive applications in industries such as chemical, petrochemical, pharmaceutical, pulp and paper, foundries and mining like sulphuric acid, etc.





MATERIALS SELECTION

No	Description	Qty.	Materials	Materials According to Norms		
				ASME	JIS	DIN
1	Body	2	Carbon Steel+PFA/FEP/ETFE	A216 WCB	G5151-SCPH2	GS-45(1.0446)
			Stainless Steel+PFÀ/FEP/ETFE	A351 CF8	G5121 SCS13A	G-X6CrNiMo1810
			Ductile Iron+PFA/FEP/ETFE	ASTM A395	FCD40	GGG-40 (0.7040)
2	ONE-PIECE BALL	1	Carbon Steel+PFA/FEP/ETFE	A216 WCB	G5151-SCPH2	GS-45(1.0446)
			Stainless Steel+PFA/FEP/ETFE	A351 CF8	G5121 SCS13A	G-X6CrNiMo1810
			Ductile Iron+PFA/FEP/ETFE	ASTM A395	FCD40	GGG-40 (0.7040)
3	SEAT RING	2	PTFE	-	-	-
4	STUD BOLT	4	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301
5	NUT	4	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301
6	PACKING MATERIAL	1	PTFE	-	-	-
7	SHAFT SLEEVE	1	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301
8	GLAND	1	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301
9	ANTI-STATIC SPRING	1	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301
10	STUD BOLT	2	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301
11	WASHER	2	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301
12	NUT	2	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301
13	HANDLE	1	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301
14	WASHER	2	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301
15	BOLT	2	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301
16	LEVER STOP	1	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301
17	LOCKER	1	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301



* Unit: mm **DIMENSION**

DN	NPS	ASME 150LB			JIS 10K			DIN Pn10			A	Weight	CV	Torque
		L	H	W	L	H	W	L	H	W	ISO 5211	[kg]		
mm	in													[N · m]
15	½	108	126	160	130	126	160	130	126	160	F05	3.5	20	9
20	¾	117	126	160	150	126	160	150	126	160	F05	4.6	20	9
25	1	127	131	160	160	131	160	160	131	160	F05	5	55	9
32	1¼	140	131	160	180	131	160	180	131	160	F05	5.5	55	20
40	1½	165	160	200	200	160	200	200	160	200	F07	11	210	20
50	2	178	170	200	230	170	200	230	170	200	F07	14	310	26
65	2½	190	170	200	290	170	200	290	170	200	F07	19	310	26
80	3	203	230	260	310	230	260	310	230	260	F07	28.8	684	65
100	4	229	265	313	350	265	313	350	265	313	F10	44.8	1456	91
125	5	/	265	313	400	265	313	400	265	313	F10	51	1546	91
150	6	267	347	535	480	347	535	480	347	535	F12	96.2	3262	143
200	8	292			600			600			F14	118	4565	364
250	10	533	Gear Box		730	Gear Box		730	Gear Box		F14	330	10250	455
300	12	610			850			850			F16	460	17500	494



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Butterfly Valve



Lined butterfly valve

Lined butterfly valve

Size	50mm-900mm (2"-36")
Working pressure	0.1mbar-10bar
Temperature range	-20° C ~ 200° C according to working conditions, other temperatures on request.
Design and Manufacture	API609 DIN EN1092 JIS B2032
Face to Face	ASME B16.10 DIN EN558.1 JIS B2002
Flange Ends	ASME B16.5 DIN 2532 JIS B2212 (150lb, 10k, Pn10)
Visual Inspection	MSS Sp54
Testing	API 598 DIN 3230 JIS B2003
Pressure & Temperature	ASME B16.34
Operator Type	Lever/ Gear/ Pneumatic/ Electric
Spark testing	14kv



■ Lined butterfly valve

The butterfly valves' special feature is the seat ring design. The interference between the disc and the raised central area of the seat ring shuts off the flow completely. The resilient elastomeric seat cushion ensures reliable shut-off for the life of the valve.

The upper and lower positions of the seal ring, where the stem passes through, use a triple seal design to prevent leakage to the atmosphere.

Triple Seal Prevent Leakage

Primary Seal: ① Seat

Secondary Seal: ② O ring

Tertiary Seal: ③ Taper PTFE seal ring

Stem design (Square, double-D, single key ,double key)

Self lubricating bushing could endure under pressure and three point form SL design could prevent disc be deformed

Double belleville springs exert uniform loading through the pusher, pressing the PTFE seal ring and the shoulder of the disc hub together resulting in a leak free mechanical stem seal

O-ring (the second seal)

Elastomer back-up immersed in body ensures zero leakage between disc and seat.

Two piece body (wafer and lug type) precision casting moulds with clear mark.

ISO5211 pad universal mounting permits easy automations even with the valves in the pipe line

Integral body locating holes to ensure perfect centering of the valves between flange. Applied to different international standard

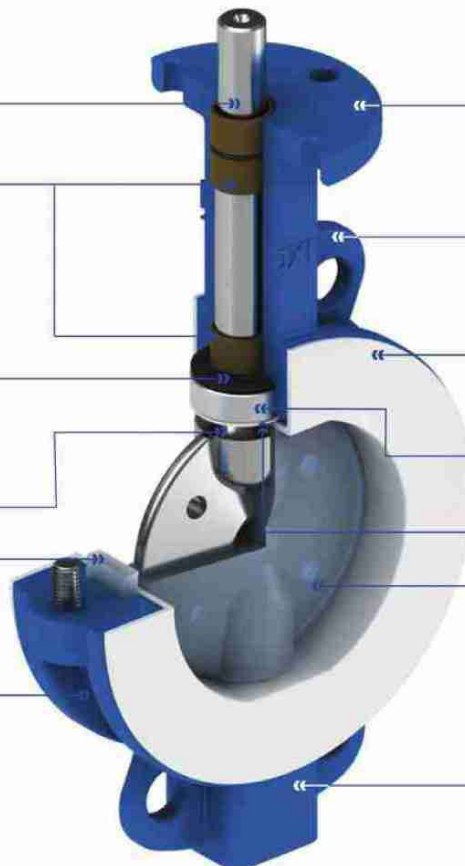
PTFE seat Precision machinery processing, extra wide spheroidal seat design provides positives shut off (the primary seal)

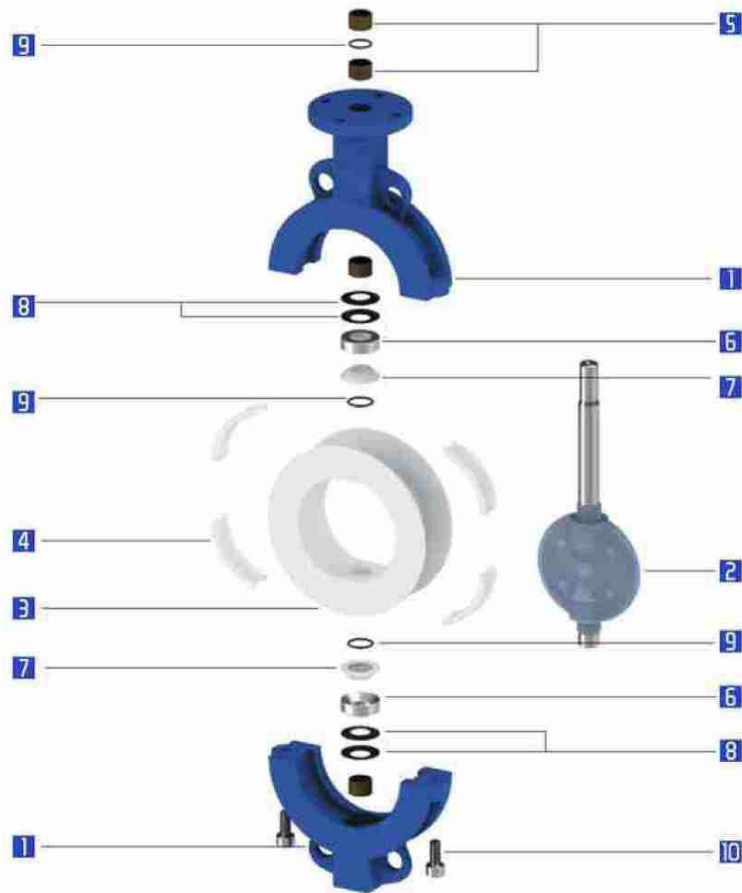
Taper metal seal cartridge (the third seal)

Taper PTFE sealing seal

One piece disc-stem, blow out-proof machined. Rated for full vacuum and thermal cycling. Minimum lined thickness 3mm eliminates permeations and possible delamination

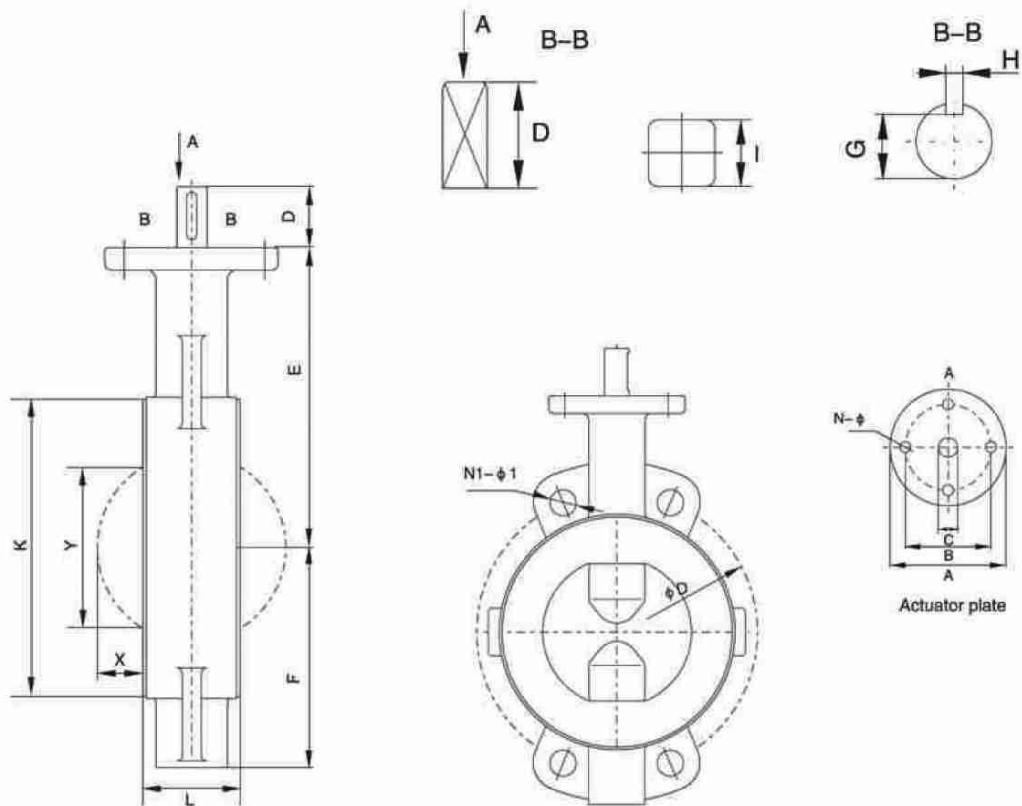
Epoxy coating paint with baked finished





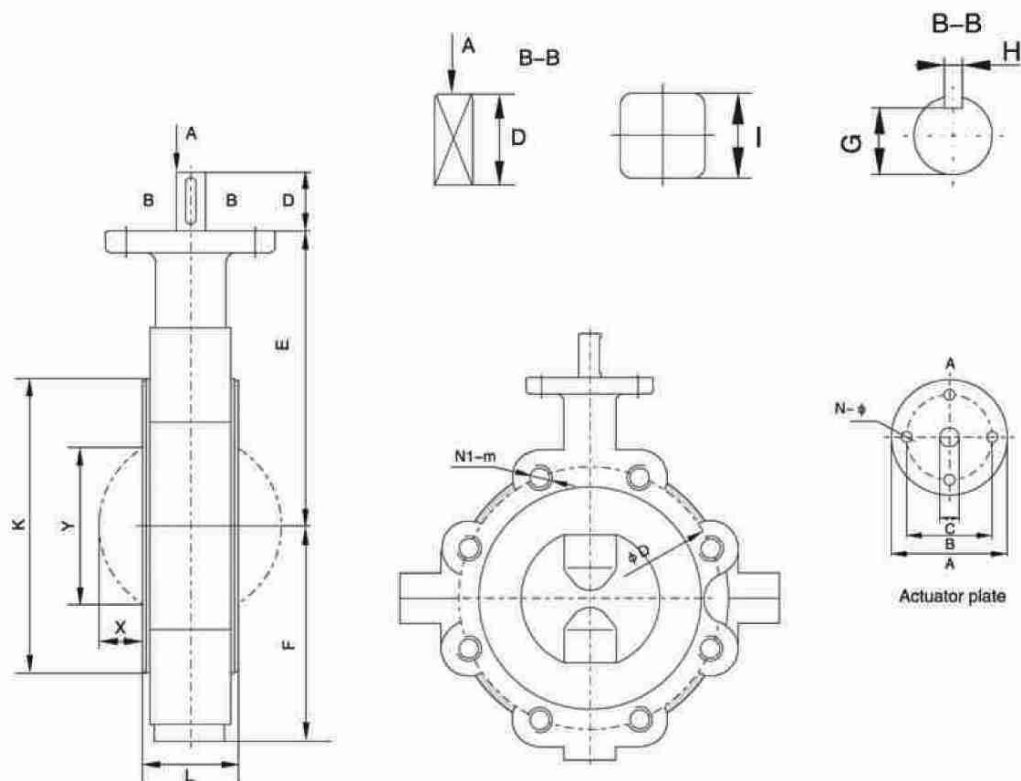
MATERIALS SELECTION

No	Description	Qty.	Materials	Materials According to Norms		
				ASTM	JIS	DIN
1	BODY	2	Carbon Steel	A216-WCB	G5151 SCPH2	GS-45(1.0446)
			Stainless Steel	A351-CF8	G5121 SCS13A	G-X6CrNiMo1810
			Ductile Iron	ASTM A395	FCD400	GGG-40 (0.7040)
2	ONE-PIECE DISC	1	Carbon Steel	A216-WCB	G5151 SCPH2	GS-45(1.0446)
			Stainless Steel	A351-CF8	G5121 SCS13A	G-X6CrNiMo1810
			Ductile Iron	A536-60-40-18	FCD350-22	1693-1997GGG-35.3(0.7033)
3	BODY LINER(SEAT)	1	PTFE/UHMWPE/PO/PE/FEP/PFA	-	-	-
4	ELASTIC SPACER	2	Silicone Rubber	-	-	-
5	AXLE SLEEVE	4	Carbon Steel+PTFE	1020+PTFE	S20C+PTFE	C20+PTFE
6	TAPER SEAL CARTRIDGE	2	Carbon Steel	1020	S20C	C20
7	TAPER SEAL RING	2	PTFE	-	-	-
8	BELLEVILLE SPRING	4	Spring Steel	E52100	Su52	100Cr6
9	O-RING	3	VITON	-	-	-
10	HEX BOLT	2	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 17440



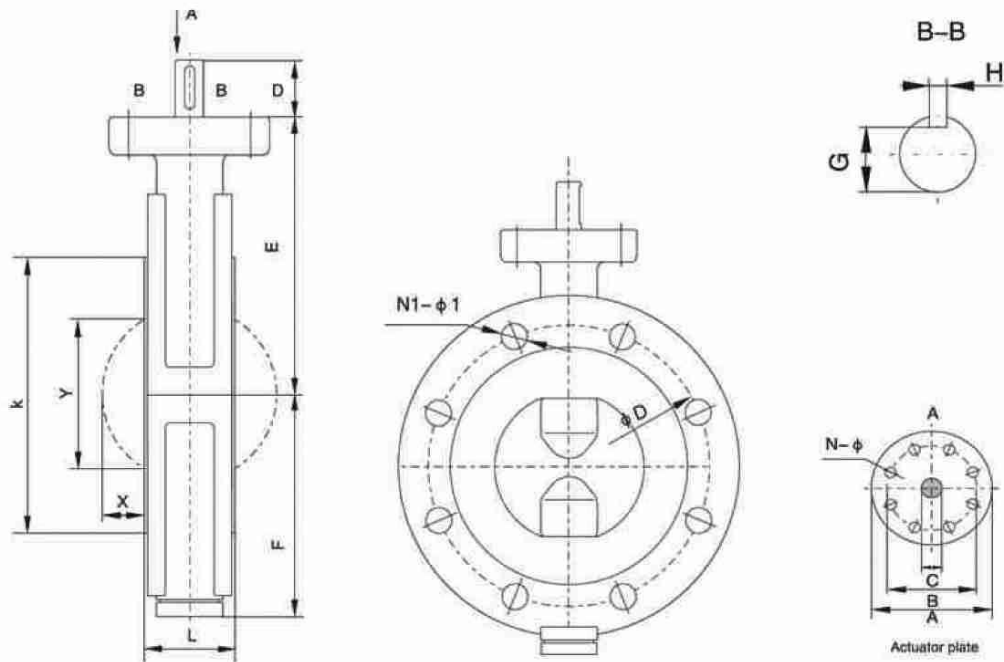
WAFER TYPE DIMENSION

DN NPS		Dimensions in mm													A		ASME 150LB		JIS 10K		DIN Pn10		Weight	Torque	
mm	in	A	B	C	D	E	F	G	H	I	N-φ	L	K	X	Y	ISO 5211	φD	N1-φ1	φD	N1-φ1	φD	N1-φ1	[Kg]	CV	[N-m]
50	2	77	57	12.6	23	115	60	/	/	11	4-10	52	100	9	42	F07	120.7	4-19	120	4-19	125	4-18	2.2	210	25
65	1½	77	57	12.6	23	115	60	/	/	11	4-10	52	100	9	42	F07	139.7	4-19	140	4-19	145	4-18	2.2	210	25
80	3	92	70	12.6	26	150	86	/	/	11	4-10	46	135	18	66	F07	152.4	4-19	150	8-19	160	4-18	4.2	410	50
100	4	92	70	15.9	26	160	115	/	/	14	4-10	52	158	25	85	F07	190.5	8-19	175	8-19	180	8-18	6.4	710	80
125	5	92	70	15.9	26	175	130	/	/	14	4-10	56	185	35	112	F07	215.9	8-22	210	8-23	210	8-18	7.9	1150	90
150	6	115	89	22.2	28	192	145	/	/	17	4-14	56	210	48	139	F07	241.3	8-22	240	8-23	240	8-23	10.4	1750	130
200	8	115	89	22.2	28	220	175	/	/	17	4-14	60	263	69	187	F10	298.5	8-22	290	12-23	295	8-23	17	3550	180
250	10	140	108	31.8	35	275	215	/	/	24	4-14	68	320	90	237	F10	362	12-25	355	12-25	350	12-23	25	5100	400
300	12	140	108	31.8	35	310	250	/	/	24	4-14	78	368	112	290	F12	431.8	12-25	400	16-25	400	12-23	34.5	8870	610
350	14	210	165	38	55	360	285	33	10	/	4-22	78	410	136	341	F14	476.3	20-1 3/8	445	16-25	460	16-23	75	9200	850
400	16	210	165	38	55	395	320	33	10	/	4-22	102	460	147	383	F14	539.8	20-1 1/4	510	16-27	515	16-27	110	14500	1170
450	18	210	165	44	65	435	360	38.5	14	/	4-22	114	518	167	432	F14	577.9	16-1 1/4	565	20-27	/	/	130	20100	1560
500	20	210	165	44	65	435	385	38.5	14	/	4-22	127	565	181	473	F14	635	16-1 1/8	620	20-27	620	20-27	190	22000	1820
600	24	210	165	55	75	525	445	49	16	/	4-22	154	658	218	569	F14	749.3	12-1 1/8	730	24-33	725	20-30	280	31000	2990



LUG TYPE DIMENSION

DN	NPS	Dimensions in mm														A	ASME B16.5		JIS B2212 10K		DIN2532 Pn10		Weight		Torque
		mm	In	A	B	C	D	E	F	G	H	I	N-φ	L	K		X	Y	ISO 5211	φD	N1-m	φD	N1-m	φD	
50	2	77	57	12.6	23	115	60	/	/	11	4-10	52	100	9	42	F07	120.7	4-5/8	120	4-16	125	4-M16	2.9	210	25
65	2½	77	57	12.6	23	115	60	/	/	11	4-10	52	100	9	42	F07	139.7	4-5/8	140	4-16	145	4-M16	2.9	210	25
80	3	92	70	12.6	26	150	86	/	/	11	4-10	46	135	18	66	F07	152.4	4-5/8	150	8-16	160	8-M16	5.5	410	50
100	4	92	70	15.9	26	160	115	/	/	14	4-10	52	158	25	85	F07	190.5	8-5/8	175	8-16	180	8-M16	8.3	710	80
125	5	92	70	15.9	26	175	130	/	/	14	4-14	56	185	35	112	F07	215.9	8-3/4	210	8-20	210	8-M16	10.3	1150	90
150	6	115	89	22.2	28	192	145	/	/	17	4-14	56	210	48	139	F07	241.3	8-3/4	240	8-20	240	8-M20	13.5	1750	130
200	8	115	89	22.2	28	220	175	/	/	17	4-14	60	263	69	187	F10	298.5	8-3/4	290	12-20	295	8-M20	22.1	3550	180
250	10	140	108	31.8	35	275	215	/	/	24	4-14	68	320	90	237	F10	362	12-7/8	355	12-22	350	12-M20	32.5	5100	400
300	12	140	108	31.8	35	310	250	/	/	24	4-14	78	368	112	290	F12	431.8	12-7/8	400	16-22	400	12-M20	44.9	8870	610
350	14	210	165	38	55	360	285	33	10	/	4-22	78	410	136	341	F14	476.3	12-1	445	16-22	460	16-M20	97	9200	850
400	16	210	165	38	55	395	320	33	10	/	4-22	102	460	147	383	F14	539.8	16-1	510	16-24	515	16-M24	143	14500	1170
450	18	210	165	44	65	435	360	38.5	14	/	4-22	114	518	167	432	F14	577.9	16-1 1/8	565	20-24	/	/	169	20100	1560
500	20	210	165	44	65	435	385	38.5	14	/	4-22	127	565	181	473	F14	635	20-1 1/8	620	20-24	620	20-M24	247	22000	1820
600	24	210	165	55	75	525	445	49	16	/	4-22	154	658	218	569	F14	749.3	20-1 1/4	730	24-30	725	20-M27	365	31000	2990



WAFER TYPE DIMENSION

DN NPS		Dimensions in mm													A	ASME 150LB	JIS 10K	DIN Pn10	Weight	Torque				
mm	in	A	B	C	D	E	F	G	H	N-φ	L	K	X	L	ISO 5211	φD	N1-φ1	φD	N1-φ1	φD	N1-φ1	[Kg]	CV	[N · m]
700	28	300	254	70	120	670	550	55	20	8-19	165	780	268	680	F25	795.3	40-7/8	840	24-33	840	24-30	320	39500	3500
800	32	300	254	70	120	750	600	55	20	8-19	190	885	295	756	F25	900.1	48-7/8	950	28-33	950	24-33	395	51750	4500
900	36	300	254	85	120	790	630	67	22	8-19	203	990	344	867	F25	1010	44-1	1050	28-33	1050	28-33	450	63600	5500



Diaphragm Valve



Lined diaphragm valve

Lined diaphragm valve

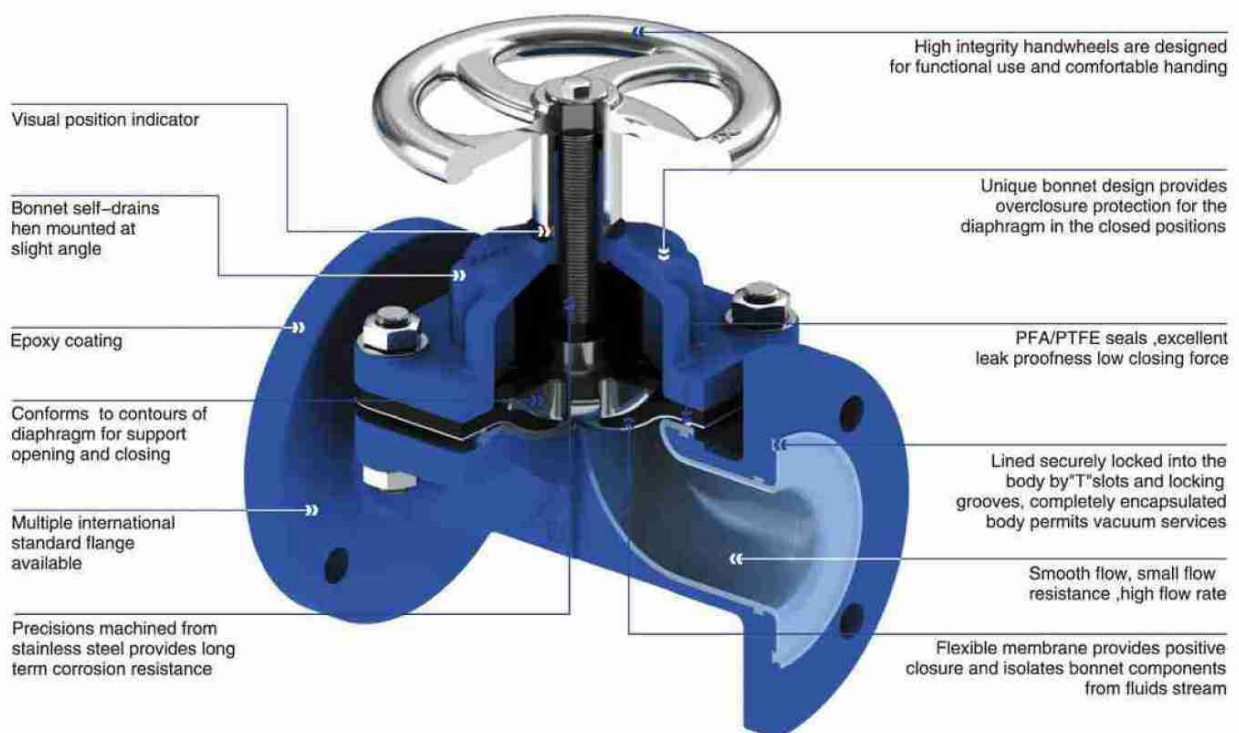
Size	15mm-300mm (0.5"-12")
Working pressure	0.1mbar-16 bar
Temperature range	-20° C ~ 200° C according to working conditions, other temperatures on request.
Design and Manufacture	MSS SP-88
Face to Face	ASME B16.10 DIN 3202 JIS B2002
Flange Ends	ASME B16.5 DIN 2532 JIS B2212
Visual Inspection	MSS Sp54
Testing	API 598 DIN 12569 JIS B2003
Pressure & Temperature	ASME B16.34
Operator Type	Hand wheel/Pneumatic
Spark testing	14kv

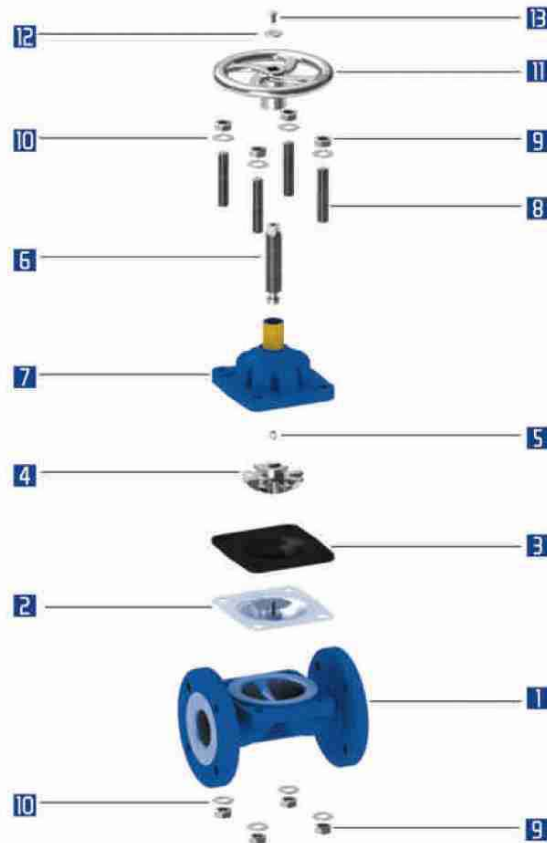


■ Lined diaphragm valve

Weir type diaphragm valve having rugged design to incorporating the best material available is proved by easy, smooth and maintenance free operation for a long time. Extra heavy-duty casting affords high resistance to atmospheric corrosion. Diaphragm valve reduces diaphragm travel for extended service and fine control.

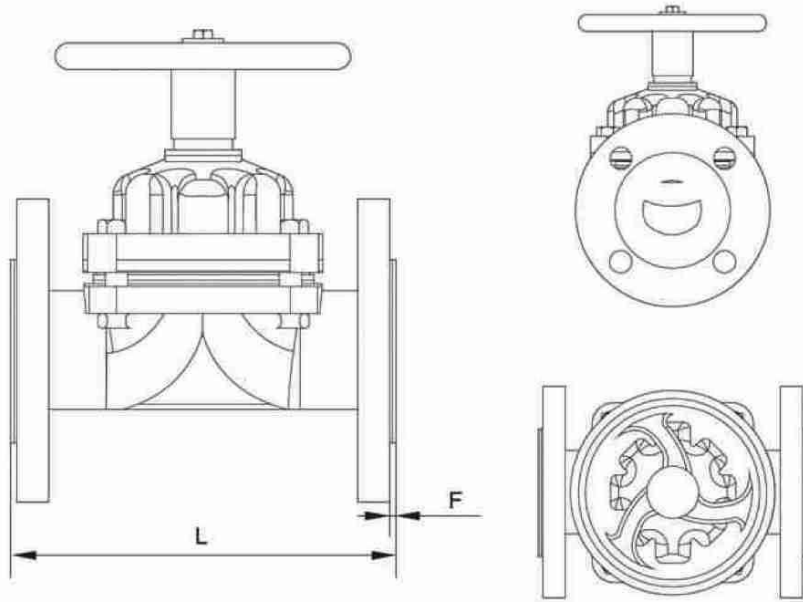
A wide choice is available for body materials, body linings, types of operation and body end connections to satisfy the needs of most industrial applications. High quality standards are strictly maintained, each valve being checked for size, design pressure, operation, MOC, finish etc and within house painting.





MATERIALS SELECTION

No	Name	Qty.	Materials	Materials According to Norms		
				ASTM	JIS	DIN
1	BODY	1	Carbon Steel+PFA/FEP/ETFE	A216-WCB	G5151 SCPH2	GS-45(1.0446)
			Stainless Steel+PFA/FEP/ETFE	A351-CF8	G5121 SCS13A	G-X6CrNiMo1810
			Ductile Iron+PFA/FEP/ETFE	ASTM A395	FCD400	GGG-40 (0.7040)
2	DIAPHRAGM	1	PFA/PTFE	-	-	-
3	CUSHION RUBBER	1	NBR	-	-	-
4	COMPRESSOR	1	Carbon Steel	A216 WCB	G5151-SCPH2	GS-C25N DIN 17245
5	LINK BLOCK	1	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 17440
6	SPINDLE	1	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 17440
7	BONNET	1	Carbon Steel	A216-WCB	G5151 SCPH2	GS-45(1.0446)
			Stainless Steel	A351-CF8	G5121 SCS13A	G-X6CrNiMo1810
			Ductile Iron	ASTM A395	FCD400	GGG-40 (0.7040)
8	STUD BOLT	4	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301
9	HEX NUT	8	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301
10	WASHER	8	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301
11	HAND WHEEL	1	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301
12	WASHER	1	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301
13	WRENCH BOLT	1	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301



* Unit: mm

DIMENSIONI

DN	NPS	ASME B16.5		JIS B2212 10K DIN2532 Pn10		BS 5156		Weight [kg]	CV
		L	f	L	f	L	f		
15	½	108	3	130	3	108	3	3.5	10
20	¾	146	3	150	3	117	3	4	12
25	1	146	3	160	3	127	3	5.5	17
32	1¼	159	3	180	3	146	3	8	27
40	1½	175	3	200	3	159	3	11	39
50	2	200	3	230	3	190	3	14	70
65	2½	226	3	290	3	216	3	23	125
80	3	260	4	310	4	254	4	29	180
100	4	327	4	350	4	305	4	46	305
125	5	400	4	400	4	356	4	70	412
150	6	480	4	480	4	406	4	90	712
200	8	600	4	600	4	521	4	160	1011
250	10	730	4	730	4	635	4	230	1840
300	12	850	5	850	5	749	5	320	2435



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Ball Check Sight Glass Valve

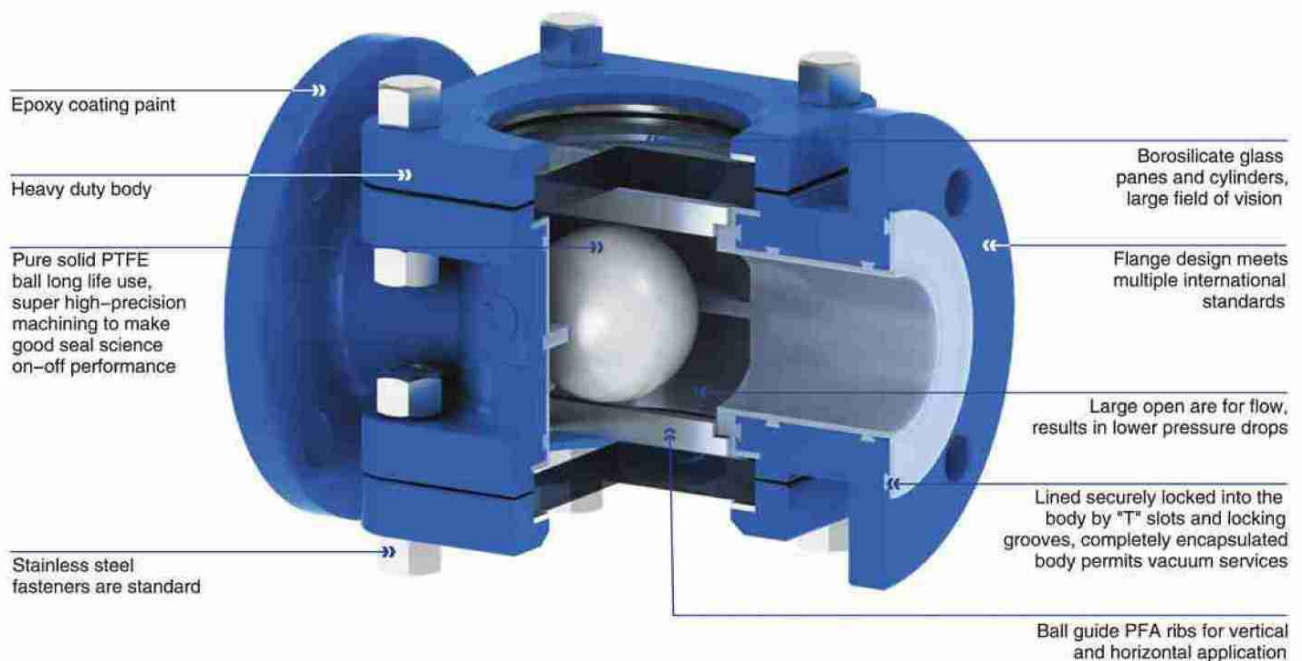
Lined ball check sight glass valve

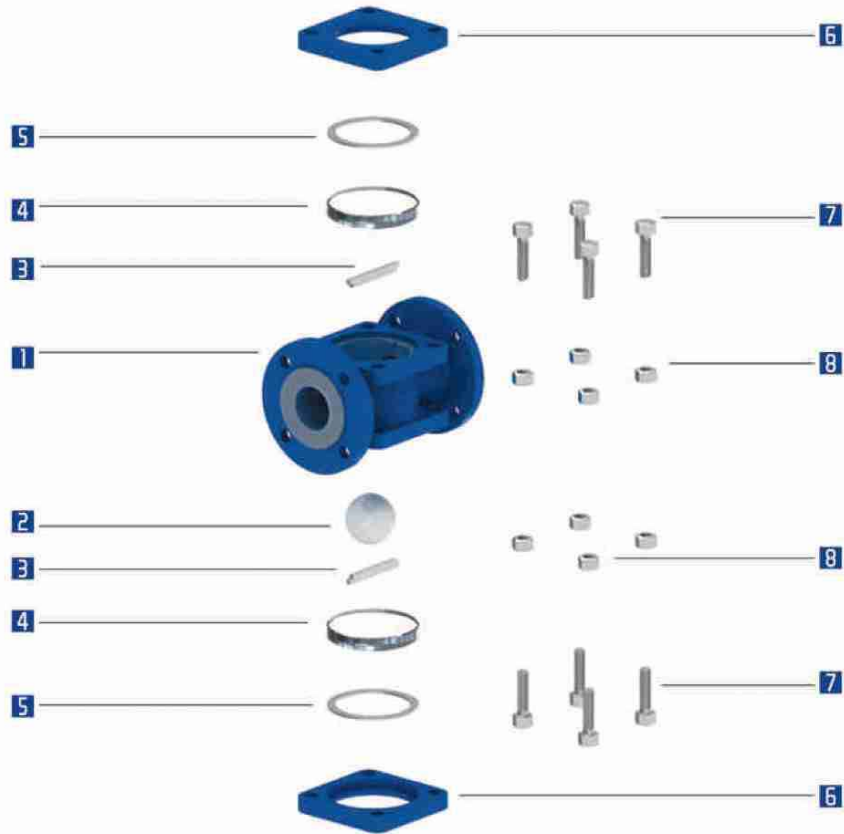


Size	15mm-200mm (0.5"-8")
Working pressure	0.1mbar-16 bar
Temperature range	-20° C ~ 200° C according to working conditions, other temperatures on request.
Design and Manufacture	API 594
Face to Face	ASME B16.10 DIN 3202 JIS B2002
Flange Ends	ASME B16.5 DIN 2532 JIS B2212
Visual Inspection	MSS Sp54
Testing	API 598 DIN 12569 JIS B2003
Pressure & Temperature	ASME B16.34
Spark testing	14kv

■ Lined ball check sight glass valve

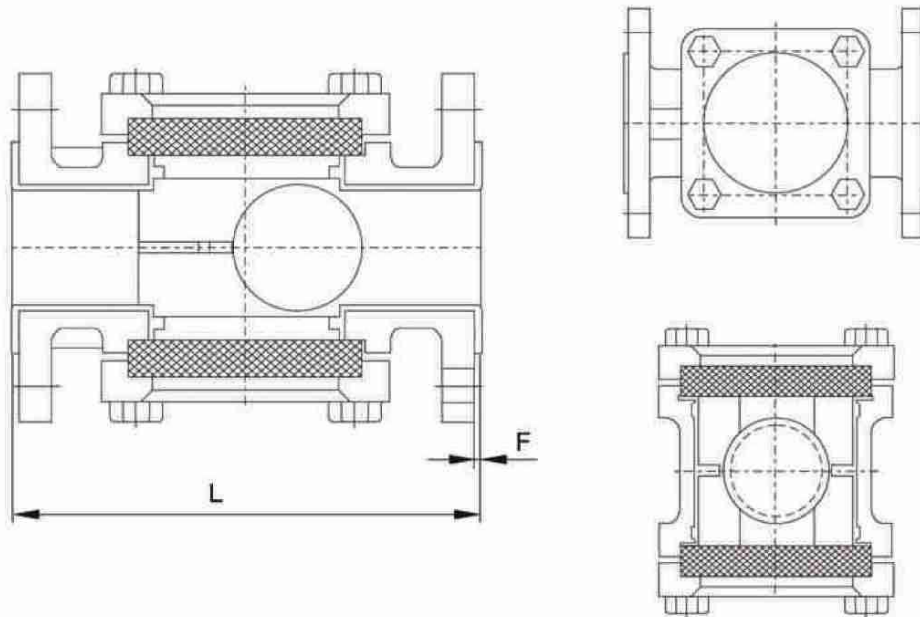
With pressure rating up to 19 bargs, the ball check valves sight glass are very robust, having integrated borosilicate windows each side of the ball check assembly makes it very easy to see if there is flow through the valve. No wetted metal parts are used. The valves are immune to most aggressive chemicals and are used in place of expensive exotic alloys.





MATERIALS SELECTION

No	Name	Qty	Materials	Materials According to Norms		
				ASTM	JIS	DIN
1	BODY	1	Carbon Steel+PFA/FEP/ETFE	A216-WCB	G5151 SCPH2	GS-45(1.0446)
			Stainless Steel+PFA/FEP/ETFE	A351-CF8	G5121 SCS13A	G-X6CrNiMo1810
			Ductile Iron+PFA/FEP/ETFE	ASTM A395	FCD400	GGG-40 (0.7040)
2	BALL	1	PTFE	-	-	-
3	BARRIER STRIP	2	PTFE/PFA/FEP/ETFE	-	-	-
4	TEMPERED SIGHT GLASS	2	Tempered Borosilicate Glass	-	-	-
5	ENVELOPE GASKET	2	PTFE	-	-	-
6	LENS FRAME	2	Carbon Steel+PFA/FEP/ETFE	A216-WCB	G5151 SCPH2	GS-45(1.0446)
			Stainless Steel+PFA/FEP/ETFE	A351-CF8	G5121 SCS13A	G-X6CrNiMo1810
			Ductile Iron+PFA/FEP/ETFE	ASTM A395	FCD400	GGG-40 (0.7040)
7	HEX BOLT	5	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 17440
8	HEX NUT	5	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 17440



DIMENSIONS * Unit: mm

DN	NPS	ASME B16.5		JIS B2212 10K		DIN2532 Pn10		Weight [kg]	CV
		L	f	L	f	L	f		
15	½	160	3	160	3	160	3	4	11
20	¾	160	3	160	3	160	3	4.5	20
25	1	160	3	160	3	160	3	5.0	32
40	1½	200	3	200	3	200	3	8.5	90
50	2	230	4	230	4	230	4	12.5	140
80	3	310	4	310	4	310	4	22.5	375
100	4	350	4	350	4	350	4	31	610
150	6	480	4	480	4	480	4	59	1450
200	8	600	4	600	4	600	4	82	2050



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Wafer Type Swing Check Valve

Wafer type swing check valve



Size	40mm-600mm (1.5"-24")
Working pressure	0.1mbar-16 bar
Temperature range	-20° C ~ 200° C according to working conditions, other temperatures on request.
Design and Manufacture	API 594
Face to Face	DIN EN 558 ASME/ANSI B 16.10
Flange Ends	DIN EN 1092 ANSI B 16.5
Visual Inspection	MSS Sp54
Testing	API 598 DIN 3230 JIS B2003
Pressure & Temperature	ASME B16.34
Spark testing	14kv

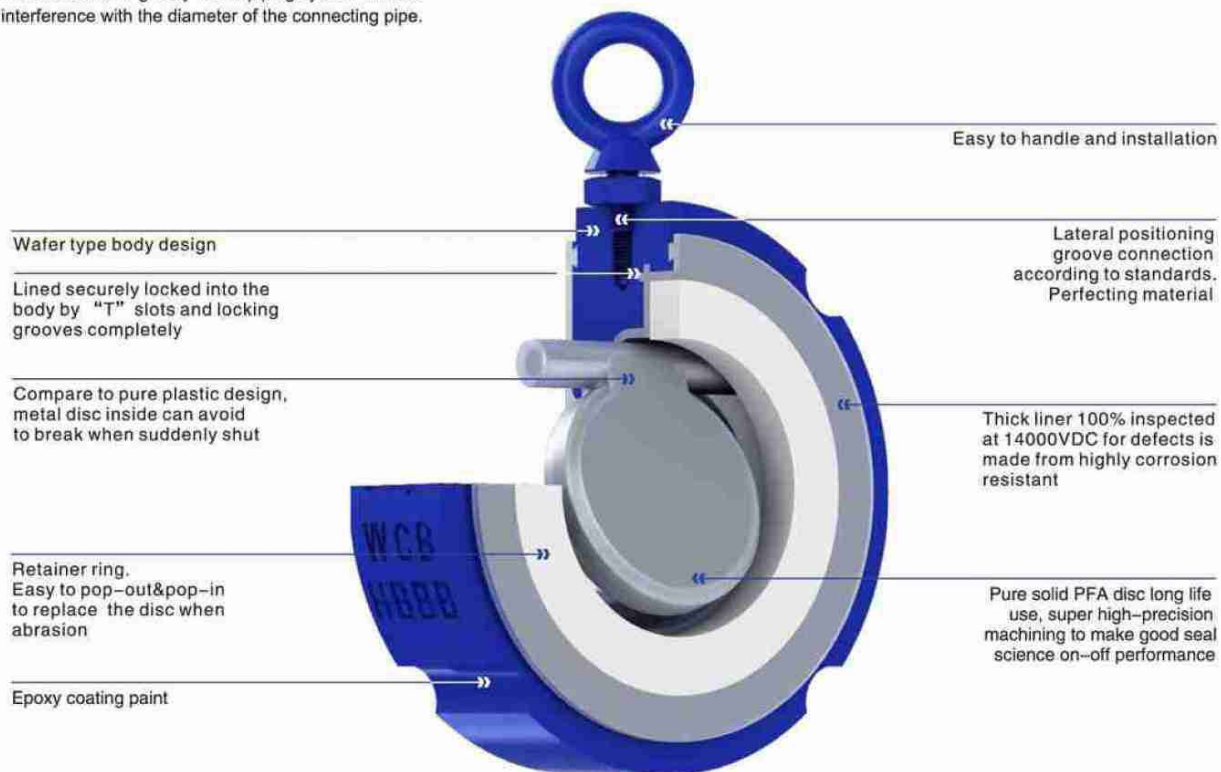
■ Wafer type swing check valve

Fully lined swing check valves are ideal for use in highly corrosive applications due to the universal chemical resistance of fluoropolymer lining.

These valves can be used in horizontal and vertical installations due to the special design of the hinge pin, which enables the disc to achieve a seal with out support of any system pressure.

2- Piece design eliminating a potential leak path with a seat face integrated in the body liner to seal against the disc in the closed position.

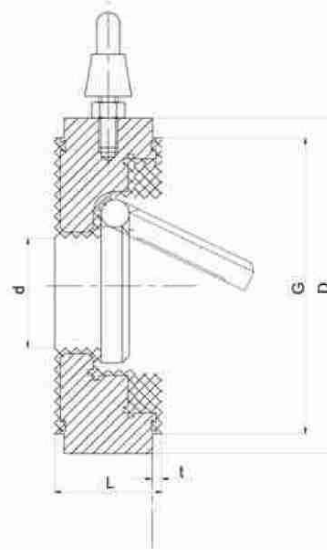
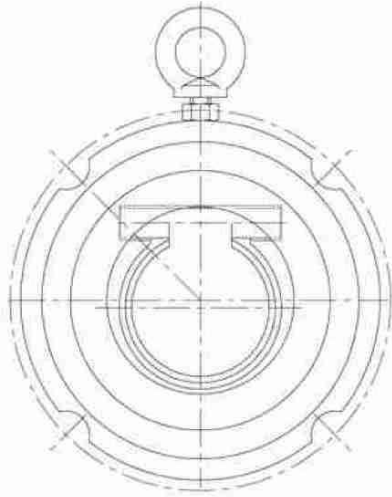
The disc can swing freely within piping system without interference with the diameter of the connecting pipe.





MATERIALS SELECTION

No	Name	Qty	Materials	Materials According to Norms		
				ASTM	JIS	DIN
1	BODY	1	Carbon Steel+PFA/FEP/ETFE	A216-WCB	G5151 SCPH2	GS-45(1.0446)
			Stainless Steel+PFA/FEP/ETFE	A351-CF8	G5121 SCS13A	G-X6CrNiMo1810
			Ductile Iron+PFA/FEP/ETFE	ASTM A395	FCD400	GGG-40 (0.7040)
2	BODY LINER	1	PFA/FEP/ETFE/PO/PE	-	-	-
3	DISC	1	Carbon Steel+PFA/FEP/ETFE	A216-WCB	G5151 SCPH2	GS-45(1.0446)
			Stainless Steel+PFA/FEP/ETFE	A351-CF8	G5121 SCS13A	G-X6CrNiMo1810
			Ductile Iron+PFA/FEP/ETFE	ASTM A395	FCD400	GGG-40 (0.7040)
4	RETAINER RING	1	PTFE	-	-	-
5	HAND RING	1	Carbon Steel	A216-WCB	G5151 SCPH2	GS-45(1.0446)
			Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301
6	NUT	1	Carbon Steel	A216-WCB	G5151 SCPH2	GS-45(1.0446)
			Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301



DIMENSION * Unit: mm

DN	NPS	ASME/JIS/DIN				LINED	Weight
mm	in	L	d	G	D	t	[kg]
50	2	43	30	92.1	112.4	3.5	2.7
65	2½	46	55	104.8	131.2	3.5	3
80	3	46	55	127	143.8	3.5	5
100	4	52	72	157.2	181.7	3.5	6.8
150	6	56	115	215.9	231.1	3.5	11
200	8	60	155	269.9	288.1	3.5	19
250	10	68	190	323.8	350.2	4	28
300	12	78	240	381	419.9	4	39
350	14	92	275	412.8	462.9	4	65
400	16	102	305	469.9	526.4	4.5	90
450	18	114	355	533.4	562.5	4.5	104.8
500	20	127	405	584.2	619.6	4.5	165
600	24	154	450	692.2	732.4	4.5	255



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Plug Valve

Lined plug valve

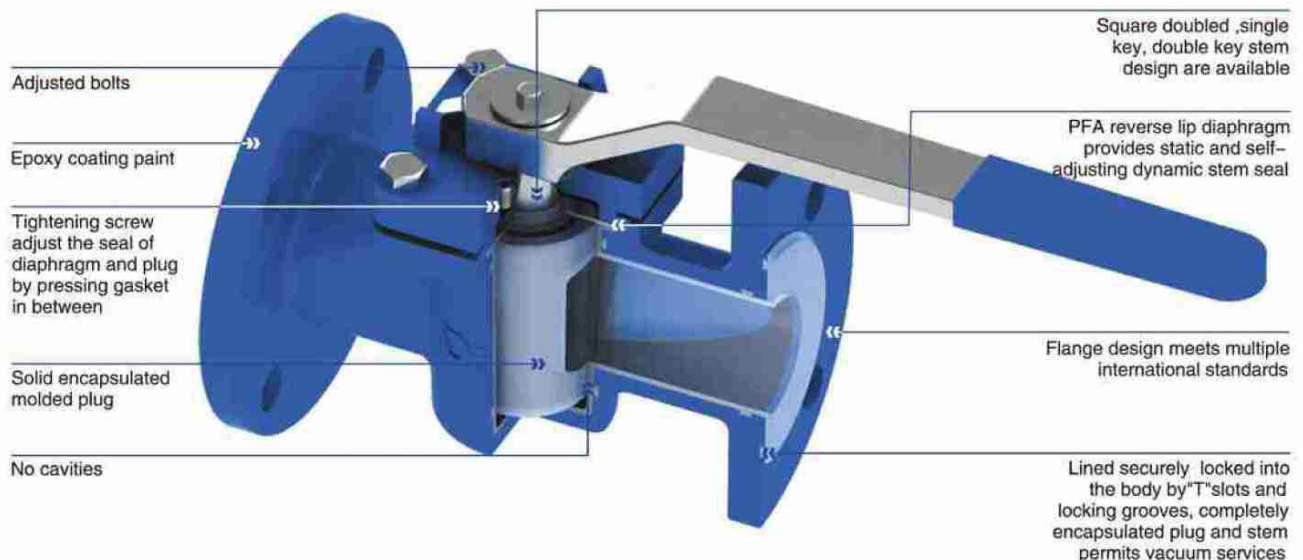
Size	15mm-300mm (0.5"-12")
Working pressure	0.1mbar-16 bar
Temperature range	-20° C ~ 200° C according to working conditions, other temperatures on request.
Design and Manufacture	API 599
Face to Face	ASME B16.10 DIN 3202 JIS B2002
Flange Ends	ASME B16.5 DIN 2532 JIS B2212
Visual Inspection	MSS Sp54
Testing	API 598 DIN 12569 JIS B2003
Pressure & Temperature	ASME B16.34
Operator Type	Lever/ Gear/ Pneumatic/ Electric
Spark testing	14kv

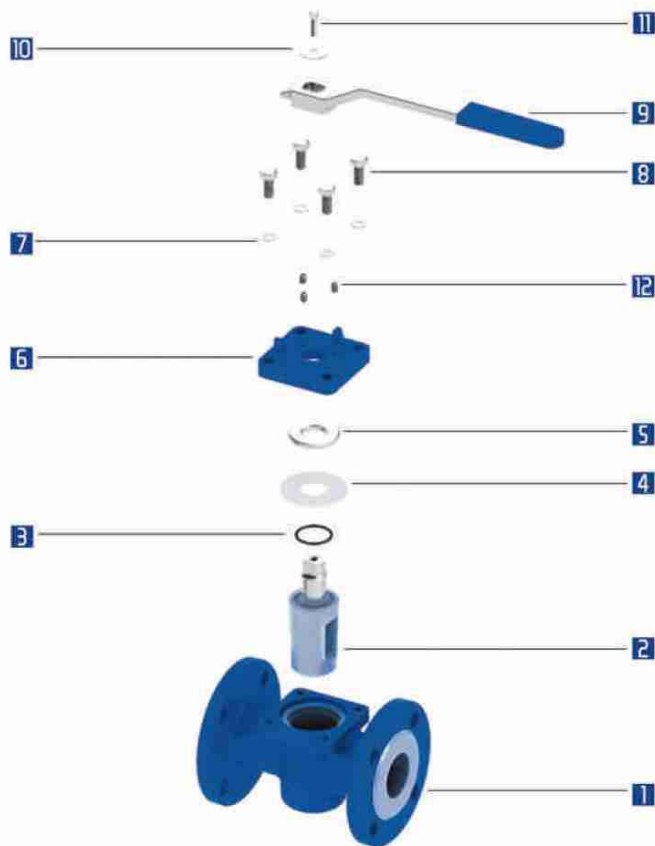


■ Lined plug valve

Straight through lined plug valves provide unrestricted flow when fully open, and are also operable in a throttled position. The moulded liner assure excellent chemical resistance and long service life.

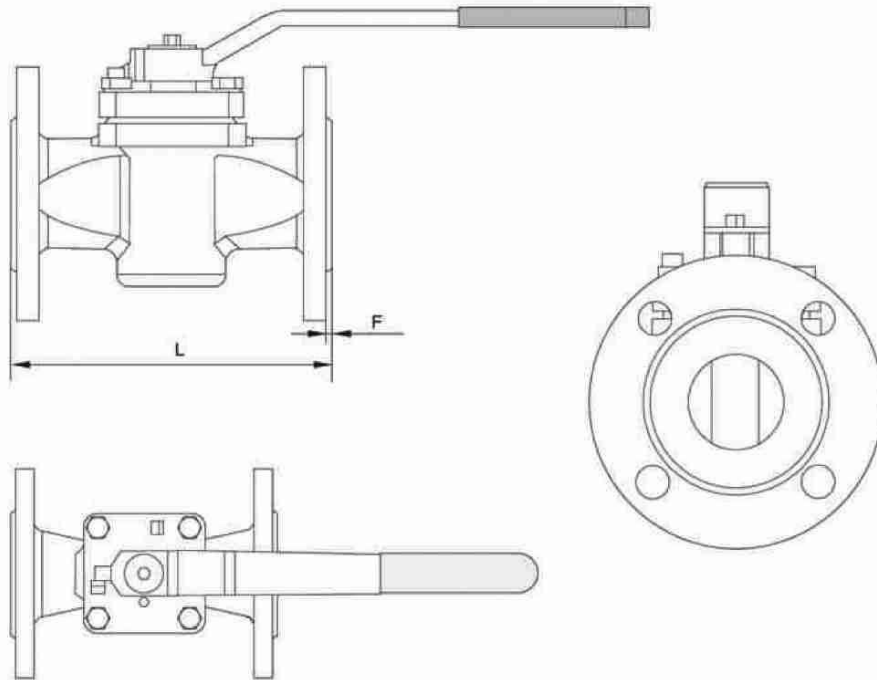
Products are manufactured using latest production methodology backed by continuing quality control from raw materials to finish products to ensure the highest possible quality standards.





MATERIALS SELECTION

No	Designation	Qty.	Materials	Materials According to Norms		
				ASME	JIS	DIN
1	BODY	1	Carbon Steel+PFA/FEP/ETFE	A216-WCB	G5151 SCPH2	GS-45(1.0446)
			Stainless Steel+PFA/FEP/ETFE	A351-CF8	G5121 SCS13A	G-X6CrNiMo1810
			Ductile Iron+PFA/FEP/ETFE	ASTM A395	FCD400	GGG-40 (0.7040)
2	ONE-PIECE PLUG	1	Carbon Steel+PFA/FEP/ETFE	A216-WCB	G5151 SCPH2	GS-45(1.0446)
			Stainless Steel+PFA/FEP/ETFE	A351-CF8	G5121 SCS13A	G-X6CrNiMo1810
			Ductile Iron+PFA/FEP/ETFE	ASTM A395	FCD400	GGG-40 (0.7040)
3	O-RING	1	VITON	-	-	-
4	DIAPHRAGM	1	PFA/PTFE	-	-	-
5	GASKET	1	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301
6	BONNET	1	Carbon Steel	A216-WCB	G5151 SCPH2	GS-45(1.0446)
			Stainless Steel	A351-CF8	G5121 SCS13A	G-X6CrNiMo1810
			Ductile Iron	ASTM A395	FCD400	GGG-40 (0.7040)
7	WASHER	4	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301
8	BONNET BOLT	4	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301
9	HANDLE	1	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301
10	WASHER	1	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301
11	HUB BOLT	1	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301
12	SCREW	3	Stainless Steel	A 182 F304	G4303-SUSF304	X5CrNi18 10 DIN 1.4301



* Unit: mm **DIMENSION**

DN	NPS	ASME B16.5		JIS B2212 10K		DIN2532 Pn10		Weight [kg]	CV
		L	f	L	f	L	f		
15	½	108	2	130	2	130	2	2.4	10
20	¾	117	2	150	2	150	2	2.4	12
25	1	127	2	160	2	160	2	3.4	17
40	1½	165	2	200	2	200	2	4.9	39
50	2	178	2	230	2	230	2	6	70
80	3	203	2	310	2	310	2	9	180
100	4	229	2	350	2	350	2	19	305
150	6	267	2	480	2	480	2	48	712
200	8	292	2	600	2	600	2	65	1011
250	10	330	2	730	2	730	2	88	1840
300	12	356	2	850	2	850	2	125	2435