



ChemFlyer | CST

PTFE Lined Butterfly Valve



Product Brochure

Company Overview

ChemValve-Schmid AG develops and manufactures high quality valves which are sold and distributed through a carefully developed network of long-standing partners in more than 50 countries all over the world.

We have been developing Check Valves and PTFE Lined Butterfly Valves in close cooperation with the most important European PTFE manufacturers since the 1980s. As a result, we have over 30 years of expertise in valve production. Our private and therefore independent company has shown consistent and healthy growth since then.

„Innovative – proficient – reliable“, that’s our motto. Thanks to years of investment in state-of-the-art production technologies and highly qualified employees, we offer unprecedented product and service quality in this sector. We creatively develop on-time solutions that are focused on our customers’ needs. Thanks to our process reliability, which covers the entire value chain through to warehousing and has evolved over many years, standard products are delivered within only a few days in line with customer-controlled assembly requirements. Existing products are continuously improved and new products are developed based on customer requirements.

We deliver what we promise. And we naturally assume full responsibility for our orders and obligations.

Give us a try!





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The **ChemFlyer | CST** is the world leading, customisable PTFE lined butterfly valve, manufactured in Switzerland to the highest standards to provide secure handling of aggressive media.



Unparalleled Sealing & Security

- Safer handling of corrosive media thanks to the unique sealing system
- The adaptive pressure package guarantees supreme tightness and constant contact pressure throughout the operational lifetime
- Especially designed for operation with highly aggressive substances such as chlorine, hydrogen fluoride & sulphuric acid
- Technologically advanced sealing system, constantly perfected over decades of product development



Low Abrasion Design

- Spherical design reduces friction and increases operational lifespan
- Following the natural movement of the valve disc, the curved liner reduces wear and tear
- The rounded, polished edges of the disc minimise torque and allow the use of smaller, more economical actuators
- The one-piece valve disc, precisely machined to fractions of a millimetre, protects the shaft from warping
- Intricate, moulded backups provide maximum sealing over an increased operational lifespan



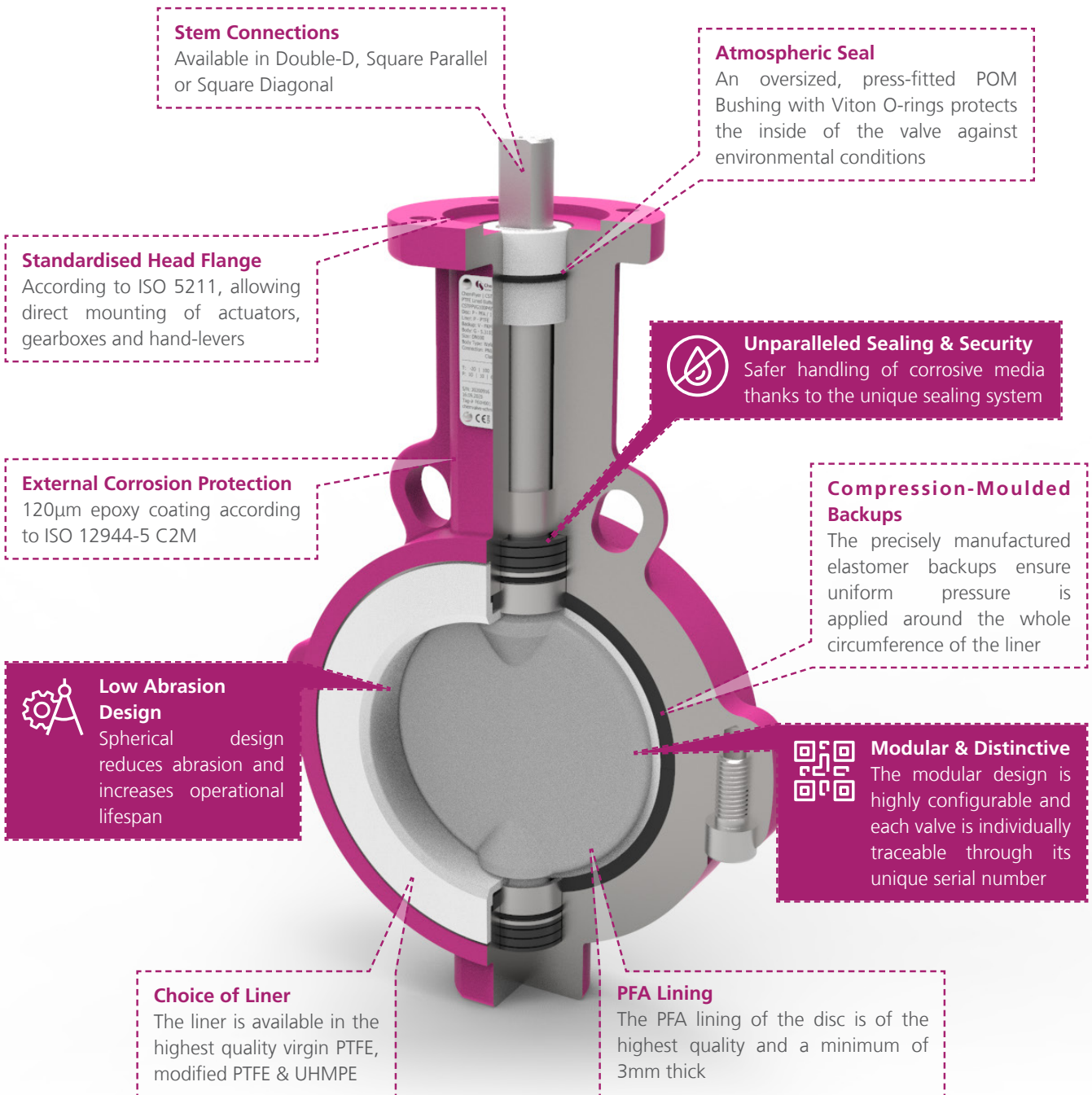
Modular & Distinctive

- The modular design is highly configurable and each valve is individually traceable through its unique serial number
- Adaptable to a multitude of requirements and applications thanks to its configurable, modular design
- Individual serial numbers allow complete traceability of all pressure-bearing parts



Additional features

- + Optional modified PTFE significantly improves durability when dealing with permeable media and high temperatures
- + Guaranteed compatibility with all established actuator systems through a range of shaft mounting options
- + Actuation devices, including hand levers, manual gear-boxes and motorised actuators, are available
- + 2-week standard delivery, driven by intelligent logistics and dedicated PTFE valve production facilities



Stem Connections

Available in Double-D, Square Parallel or Square Diagonal

Atmospheric Seal

An oversized, press-fitted POM Bushing with Viton O-rings protects the inside of the valve against environmental conditions

Standardised Head Flange

According to ISO 5211, allowing direct mounting of actuators, gearboxes and hand-levers

Unparalleled Sealing & Security

Safer handling of corrosive media thanks to the unique sealing system

External Corrosion Protection

120µm epoxy coating according to ISO 12944-5 C2M

Compression-Moulded Backups

The precisely manufactured elastomer backups ensure uniform pressure is applied around the whole circumference of the liner

Low Abrasion Design

Spherical design reduces abrasion and increases operational lifespan

Modular & Distinctive

The modular design is highly configurable and each valve is individually traceable through its unique serial number

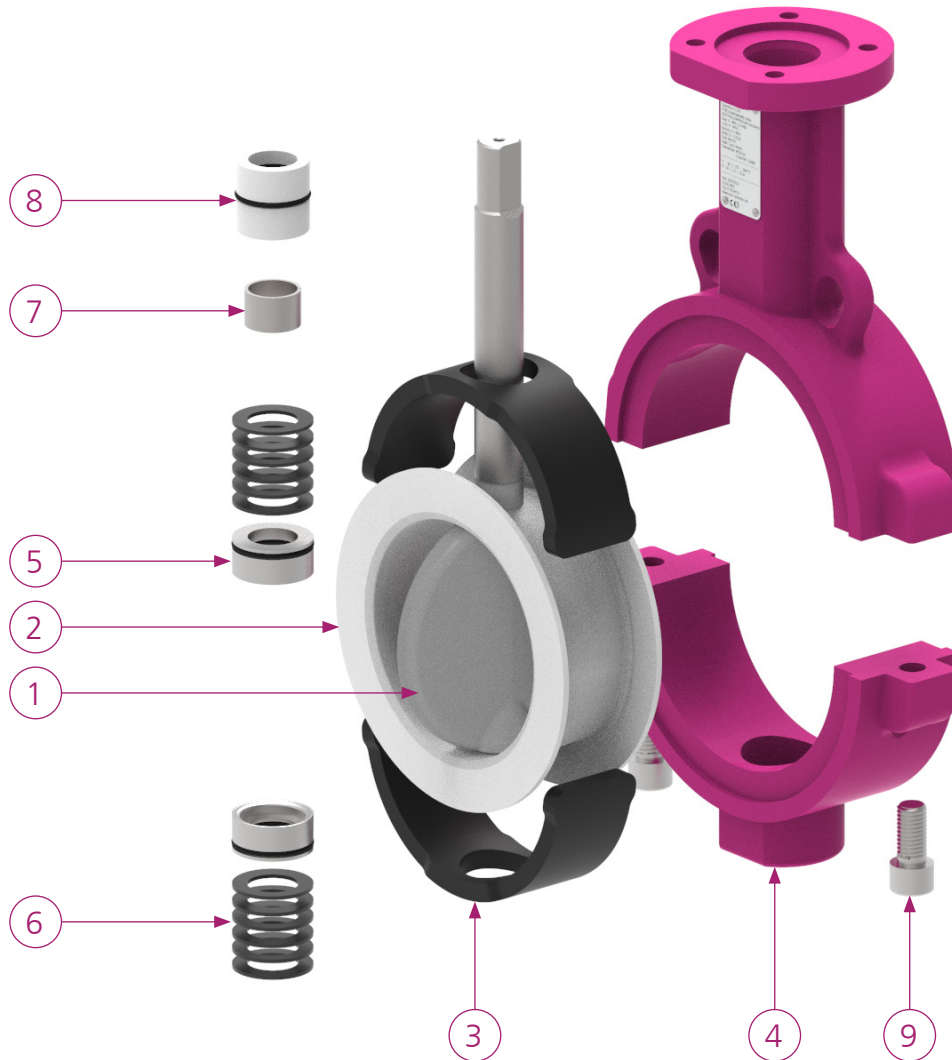
Choice of Liner

The liner is available in the highest quality virgin PTFE, modified PTFE & UHMPE

PFA Lining

The PFA lining of the disc is of the highest quality and a minimum of 3mm thick





Item #	Description	Materials
1	Disc	PFA PFAc, Conductive PFA Stainless Steel, 1.4404 Duplex, 1.4462, 1.4469 Titanium Grade 2, 3.7035 Hastelloy C, 2.4602, 2.4819
2	Liner	PTFE Modified PTFE Modified PTFE Conductive UHMPE
3	Backup	VMQ EPDM FKM

Item #	Description	Materials
4	Body	Ductile Iron, 5.3103 Stainless Steel, 1.4404 Carbon Steel, S355J2 Duroplast, VE-CF
5	Pusher	1.4301 with FKM O-Ring
6	Belleville Springs	Carbon Steel
7	Shaft Bushing	PTFE Stainless Steel
8	Top Bushing	POM with FKM O-ring
9	Body Bolts	8.8 A4

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Specifications & Standards



Nominal Diameter

- DN 25–1200
- 1"–48"



Flange Connection

- EN 1092–1, PN 6–16
- ASME B16.5, Class 150
- JIS 10K



Top Flange

- ISO 5211



Maximum Working Pressure

- DN 25–450: 10 bar
- DN 500–600: 6 bar
- DN 700–1200: 3 bar



Operating Temperature

- -60° C to 200° C



Face-to-Face Length

- EN 558, Series 20



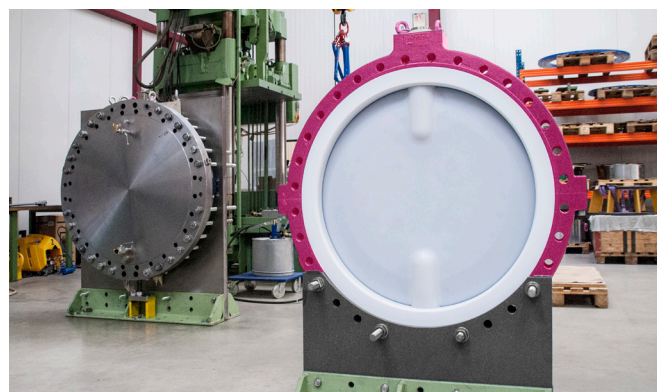
Conformity

- PED 2014/68/EU
- ATEX 2014/34/EU
- Food (EC) Nr. 1935/2004, FDA
- TA-Luft, ISO 15848-1



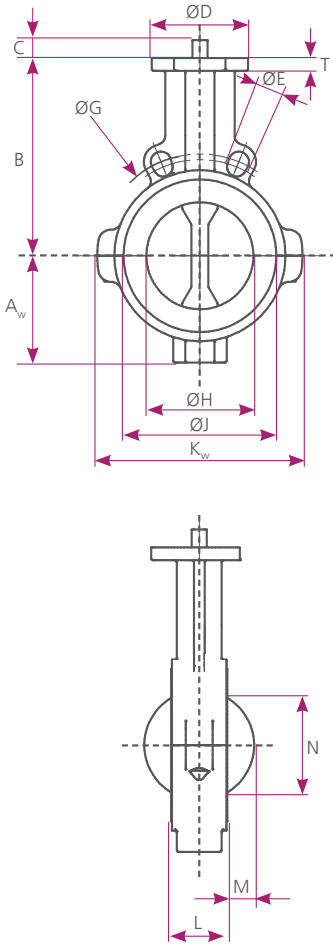
Pressure Test

- EN 12266-1



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Dimensions | Wafer



DN [mm]	25	40	50	65	80	100	125	150	200	250	300	350
DN [inch]	1"	1½"	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"
A_w	53	53	60	70	84	100	110	130	158	194	225	255
B	94	94	130	146	165	185	202	217	245	270	308	330
C_{P2}	19	19	19	19	19	25	25	30	n/a	n/a	n/a	n/a
C_{D4/P4}	17	17	17	17	17	17	17	22	26	30	30	28
ØD	65	65	90	90	90	90	90	90	125	125	125	150
T	10	10	12	12	12	12	12	12	16	16	16	16
ØE_{DIN}	4x14	4x18	4x18	12x18	8x18	8x18	8x18	8x22	8x22	12x22	12x22	16x22
ØE_{ANSI}	4x16	4x16	4x19	4x19	4x19	8x19	8x22	8x22	8x22	12x26	12x26	12x29
ØG_{DIN}	85	110	125	145	160	180	210	240	295	350	400	460
ØG_{ANSI}	79.4	98.4	120.7	139.7	152.4	190.5	215.9	241.3	298.4	362	431.8	476.3
ØH	37	46.4	50	62	75	100	125	141	195	244	295	335.6
ØJ	138	138	85	106	122	143	166	193	251	301	349	586
K_w	60	76	124	148	165	192	223	253	312	374	424	414
L	41*	33	43	46	46	52	56	56	60	68	78	92*
M	3	7	6	11	17	27	38	47	71	92	112	125
N	22	34	31	47	63	90	118	137	190	240	290	328
kg_w	2.6	2.5	3	4	5	6.3	7.7	10	16.5	24.5	37	87

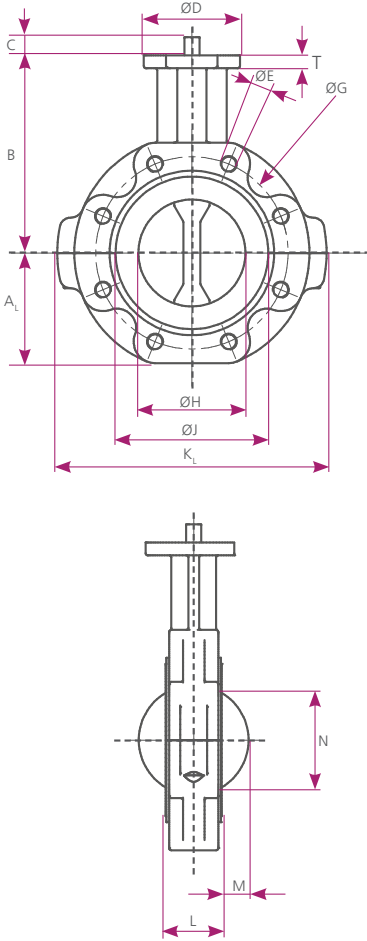
DN [mm]	400	450	500	600	700	750	800	900	1000	1050	1200
DN [inch]	16"	18"	20"	24"	28"	30"	32"	36"	40"	42"	48"
A_L	290	314	342	401	577	603	637	684	732	757	905
B	365	400	435	510	582	608	637	684	732	757	905
C_{P2}	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
C_{D4/P4}	28	37	37	47	47	56	56	56	56	56	56
ØD	150	175	175	210	210	300	300	300	300	300	300
T	18	20	20	20	35	35	35	35	35	35	35
ØE_{DIN}	16x26	20x26	20x26	20x30	24x30	-	24x33	28x33	28x36	-	32x39
ØE_{ANSI}	16x29	16x32	20x32	20x35	28x35	28x35	28x42	32x42	36x42	36x42	44x42
ØG_{DIN}	515	565	620	725	840	-	950	1050	1160	-	1380
ØG_{ANSI}	539.8	577.9	635	749.3	863.6	914.4	977.9	1085.8	1200.15	1257.3	1422.4
ØH	389.9	437.9	491.4	579.9	676.1	726	776.8	877.8	965.8	1016	1169.3
K_L	650	700	745	870	1000	1050	1130	1245	1410	1410	1530 _{DIN} 1620 _{ANSI}
ØJ	460	515	570	672	787	851	894	1016	1101	1170	1305 _{DIN} 1345 _{ANSI}
L	102	114	127	154	154*	154*	154*	154*	154*	154*	154*
M	146	164	184	215	264	289	314	364	408	433	508
N	378	424	477	561	665	717	768	868	957	1010	1160
kg_L	107	152	185	306	442	490	630	781	946	985	1212

*Not according to ISO 5752 or EN 558-1, Series 20
Please note: For DN 25–40 & 350–1200, a lug-style body, drilled through, is used



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Dimensions | Lug



DN [mm]	25	40	50	65	80	100	125	150	200	250	300	350
DN [inch]	1"	1½"	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"
A _L	53	53	60	81	88	103	117	128	160	194	228	255
B	94	94	130	146	165	185	202	217	245	270	308	330
C _{P2}	19	19	19	19	19	25	25	30	n/a	n/a	n/a	n/a
C _{D4/P4}	17	17	17	17	17	17	17	22	26	30	30	28
ØD	65	65	90	90	90	90	90	90	125	125	125	150
T	10	10	12	12	12	12	12	12	16	16	16	16
ØE _{DIN}	4x M12	4x M16	4x M16	4x M16	8x M16	8x M16	8x M16	8x M20	8x M20	12x M20	12x M20	16x M20
ØE _{ANSI}	4x½"	4x½"	4x⅝"	4x⅝"	4x⅝"	4x⅝"	8x¾"	8x¾"	8x¾"	12x⅞"	12x⅞"	12x1"
ØG _{DIN}	85	110	125	145	160	180	210	240	295	350	400	460
ØG _{ANSI}	79.4	98.4	120.7	139.7	152.4	190.5	215.9	241.3	298.4	362	431.8	476.3
ØH	37	46.4	50	62	75	100.1	124.8	141.5	195.2	244.3	295.3	335.6
K _L	138	138	156	203	218	252	286	310	376	450	520	586
ØJ	60	76	85	106	122	143	166	193	251	301	349	414
L	41*	33	43	46	46	52	56	56	60	68	78	92*
M	3	7	6	11	17	27	38	47	71	92	112	125
N	22	34	31	47	63	90	118	137	190	240	290	328
kg _L	2.6	2.5	5	7	8.1	10.8	14.5	15.8	24.6	33.3	57	87

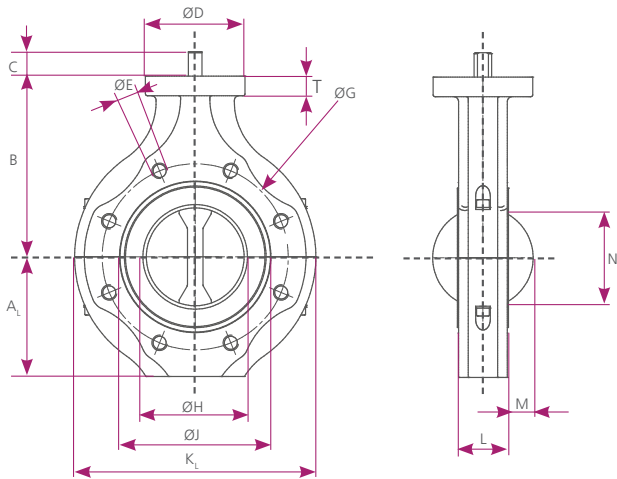
DN [mm]	400	450	500	600	700	750	800	900	1000	1050	1200
DN [inch]	16"	18"	20"	24"	28"	30"	32"	36"	40"	42"	48"
A _L	290	314	342	401	577	603	637	684	732	757	905
B	365	400	435	510	582	608	637	684	732	757	905
C _{P2}	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
C _{D4/P4}	28	37	37	47	47	56	56	56	56	56	56
ØD	150	175	175	210	210	300	300	300	300	300	300
T	18	20	20	20	35	35	35	35	35	35	35
ØE _{DIN}	16x M24	20x M24	20x M24	20x M27	24x M27	-	24x M30	28x M30	28x M33	-	32x M36
ØE _{ANSI}	16x 1"	16x 1⅝"	20x 1⅝"	20x 1¼"	28x 1¼"	28x 1¼"	28x 1½"	32x 1½"	36x 1½"	36x 1½"	44x 1½"
ØG _{DIN}	515	565	620	725	840	-	950	1050	1160	-	1380
ØG _{ANSI}	539.8	577.9	635	749.3	863.6	914.4	977.9	1085.8	1200.15	1257.3	1422.4
ØH	389.9	437.9	491.4	579.9	676.1	726	776.8	877.8	965.8	1016	1169.3
K _L	650	700	745	870	1000	1050	1130	1245	1410	1410	1530 _{DIN} 1620 _{ANSI}
ØJ	460	515	570	672	787	851	894	1016	1101	1170	1305 _{DIN} 1345 _{ANSI}
L	102	114	127	154	154*	154*	154*	154*	154*	154*	154*
M	146	164	184	215	264	289	314	364	408	433	508
N	378	424	477	561	665	717	768	868	957	1010	1160
kg _L	107	152	185	306	442	490	630	781	946	985	1212

*Not according to ISO 5752 or EN 558-1, Series 20



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Dimensions | CST-K Duroplast



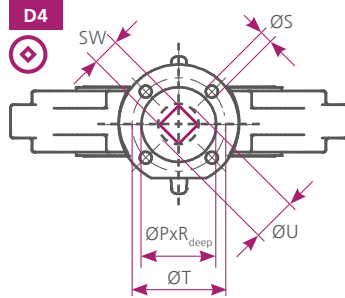
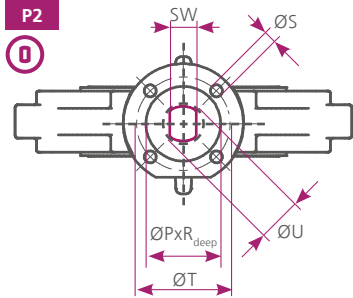
DN [mm]	50	65	80	100	150	200	250	300
DN [inch]	2"	2½"	3"	4"	6"	8"	10"	12"
A_L	80	85	108	123.5	151	182	225	262
B	130	146	165	185	217	245	270	308
C_{P2}	19	19	19	25	30	n/a	n/a	n/a
$\text{C}_{D4/P4}$	17	17	17	17	22	26	30	30
ØD	102	102	102	102	102	152	152	152
T	20	20	20	20	20	25	25	25
ØE_{DIN}	4x M16	-	8x M16	8x M16	8x M20	8x M20	12x M20	12x M20
ØE_{ANSI}	4x19	4x19	4x19	4x19	8x22	8x22	12x26	12x26
ØG_{DIN}	125	145	160	180	240	295	350	400
ØG_{ANSI}	120.7	139.7	152.4	190.5	241.3	298.4	362	431.8
ØH	60	60	80	100	150	199.5	249	300
K_L	181	200	216	247	302	364	450	524
ØJ	85	106	122	143	193	251	301	349
L	43	46	46	52	56	60	68	78
M	11	10	20	27	50	72	94	114
N	49	46	71	91	145	196	246	296
kg_L	1.8	2.1	2.5	3.6	6.8	10.8	19.4	31



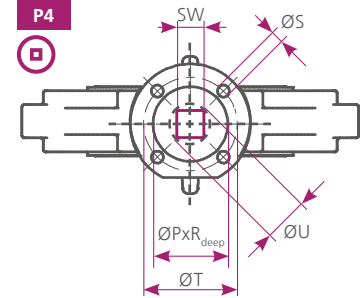
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Dimensions | Top Flange

DN 25-150



DN 25-1200



DN [mm]	25	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	750	800	900	1000	1050	1200	
DN [inch]	1"	1½"	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	30"	32"	36"	40"	42"	48"	
SW _{P2/D4}	9	9	11	11	11	14	14	17	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
SW _{P4}	9	9	11	11	11	14	14	17	19	22	22	27	27	36	36	46	46	55	55	55	55	55	55	55
ØU	13	13	14	14	14	18	18	22	24	28	28	35	35	47	47	58	60	72	72	72	72	72	72	72
ISO	F05	F05	F07	F07	F07	F07	F07	F07	F10	F10	F10	F12	F12	F14	F14	F16	F16	F16	F25	F25	F25	F25	F25	F25
ØT	50	50	70	70	70	70	70	70	102	102	102	125	125	140	140	165	165	165	254	254	254	254	254	254
ØS	4x7	4x7	4x9	4x9	4x9	4x9	4x9	4x9	4x11	4x11	4x11	4x13	4x13	4x17	4x17	4x21	4x21	4x21	8x17	8x17	8x17	8x17	8x17	8x17
ØP x R _{DEEP}	36	36	56	56	56	56	56	56	71	71	71	87	87	102	102	132	132	132	202	202	202	202	202	202
	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.5	4.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5



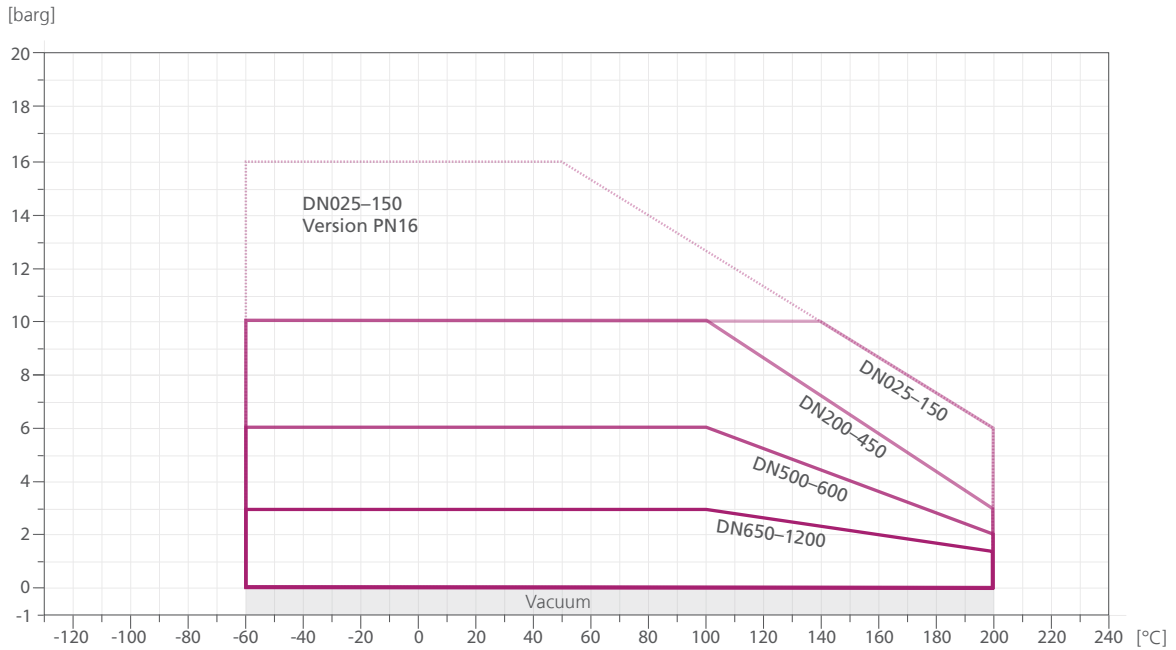
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Flow Rate | Kv-Values

Flow Rate/Kv-Value [m ³ /h]											
Opening Angle	DN [mm]										
	25	40	50	65	80	100	125	150	200	250	300
20°	0.001	1.4	2.1	4.4	8.1	17	28	39	85	119	181
30°	1.0	5.1	6.7	14	22	48	74	97	202	274	404
40°	3.0	11	14	27	41	91	145	194	415	527	771
50°	6.0	22	28	49	75	160	244	316	658	949	1329
60°	10	38	46	80	123	259	392	503	1036	1484	2179
70°	16	56	69	118	179	375	563	717	1463	2038	3083
80°	21	75	92	158	240	502	754	958	1956	2727	4124
90°	28	102	124	211	318	660	985	1244	2523	3514	5315

Flow Rate/Kv-Value [m ³ /h]												
Opening Angle	DN [mm]											
	350	400	450	500	600	700	750	800	900	1000	1050	1200
20°	277	393	528	647	843	1050	1181	1353	1861	2131	2398	3131
30°	602	856	1148	1434	1861	2347	2675	3064	4394	4827	5431	7092
40°	1139	1650	2173	2418	3473	4324	4864	5570	7621	8777	9874	12894
50°	2034	2893	3414	3980	5706	7104	7991	9207	11817	13792	15516	20262
60°	3335	4628	5742	6490	9427	11737	13203	15120	19791	23195	26095	34077
70°	4718	6711	8535	10268	14140	17606	19804	22282	30783	34480	38790	50655
80°	6312	8979	12043	14983	19349	24246	27274	31433	44252	50152	56422	73680
90°	8134	11571	15519	19308	24807	30887	34744	39789	55653	62690	70528	92100

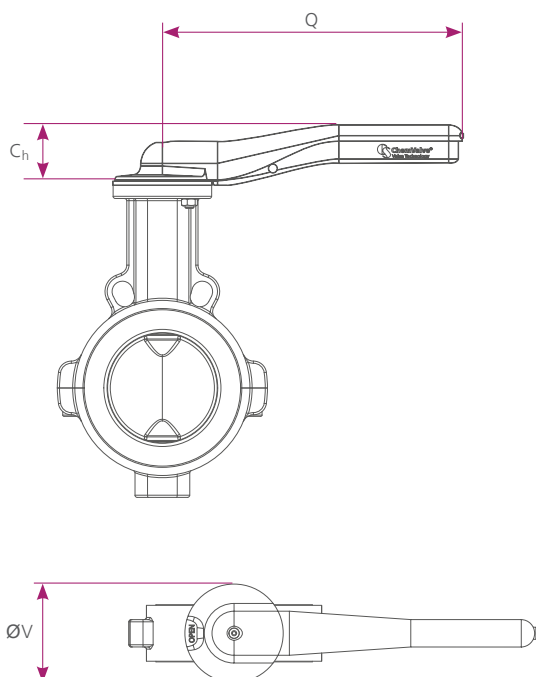




 Disc	P PFA	DN250-1200	PFA P
	C PFAc	DN250-1200	PFAc C
	S Stainless Steel	1.4404/1.4469	Stainless Steel S
	J Stainless Steel Polished	1.4404/1.4462	Polished Stainless Steel J
	F Stainless Steel Polished	1.4462/1.4462	Polished Stainless Steel T
	G Stainless Steel E-polished	1.4404/1.4462	E-polished Stainless Steel G
	T Titanium	3.7035	Titanium T
	H Hastelloy	2.4602/2.4819	Hastelloy H
 Liner	P PTFE		PTFE P
	T mPTFE		mPTFE T
	C mPTFEc		mPTFEc C
	U UHMPE	UHMPE U	
 Backup	S VMQ (Silicone)		(Silicone) VMQ S
	V FKM (Viton)		(Viton) FKM V
	E EPDM	EPDM E	
	F FKM - Steam & FDA		Steam & FDA - FKM F
	L VMQ (Silicone) Low Temperature		Low Temperature (Silicone) VMQ L
 Body	G Ductile Iron	5.3103 - EN-GJS-400-18-LT	Ductile Iron G
	S Stainless Steel	1.4404	Stainless Steel S
	M Stainless Steel Polished	1.4301	Polished Stainless Steel M
	E Stainless Steel E-polished	1.4401	E-polished Stainless Steel E
	N Stainless Steel	1.4301	Stainless Steel N
	C C-Steel	S355J2	C-Steel C
	K Duroplast		Duroplast K

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Actuation | Handlever



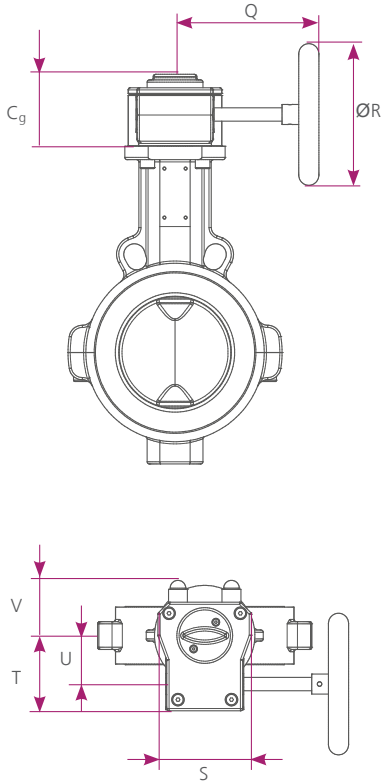
Handlever	
Part	Material
Grip	Stainless Steel
Ratchet Disc	Stainless Steel

DN [mm]	40	50	65	80	100	125	150	200	250	300
DN [inch]	1½"	2"	2½"	3"	4"	5"	6"	8"	10"	12"
C _h	46	55	55	55	55	55	55	55	55	55
Q	232.5	272.5	272.5	272.5	272.5	272.5	272.5	350	350	350
V	65	90	90	90	90	90	90	125	125	125
kg	1	1.5	1.5	1.5	1.5	1.5	1.5	2.7	2.7	2.7



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Actuation | Manual Gearbox | Premium



Configuration	
Valve Size	DN025–1000
Protection Rating	IP68
Stem Connection	P2/P4/D4

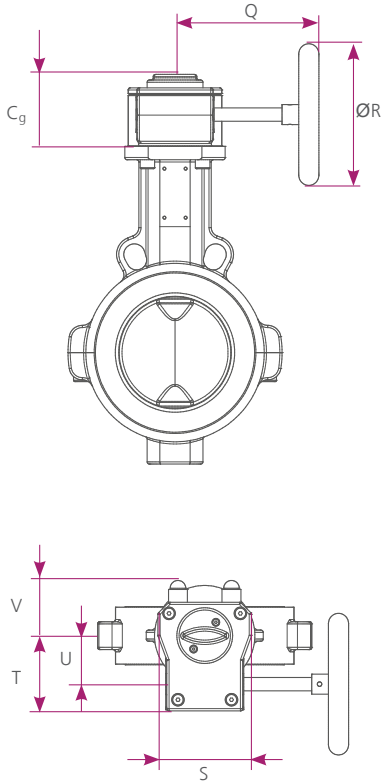
Materials	
Gearcase and Cover	Cast Iron
Quadrant	Ductile Iron
Worm	Carbon Steel
Input Shaft	Stainless Steel
Seals	Nitrile Rubber
Fasteners	Stainless Steel
Indicator	Powder-coated metal with O-ring
Handwheel DN025–300	Cast Iron
Handwheel DN350–1000	Carbon Steel

DN [mm]	25	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	750	800	900	1000
DN [inch]	1"	1½"	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	30"	32"	36"	40"
C _g	54.2	54.2	54.2	54.2	54.2	54.2	54.2	63	63	63	63	88	88	88	88	92.5	92.5	102	121	121	121
Q	115.5	115.5	115.5	115.5	115.5	115.5	115.5	175	175	186	186	297	297	297	297	385	385	426	468	468	468
ØR	100	100	100	100	100	100	100	100	125	200	200	400	400	400	400	600	600	700	600	600	600
S	80	80	80	80	80	80	80	102	102	102	102	135	135	135	135	200	200	220	285	285	285
T	66	66	66	66	66	66	66	79.5	79.5	79.5	79.5	105	105	105	105	126	126	148	151	151	151
U	42.5	42.5	42.5	42.5	42.5	42.5	42.5	52	52	52	52	71	71	71	71	86	86	104.5	53	53	53
V	58	58	58	58	58	58	58	48	48	48	48	69	69	69	69	100	100	110	142	142	142
kg	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.5	4.5	4.5	4.5	10	10	10	10	15.2	15.2	23.5	28.2	28.2	28.2



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Actuation | Manual Gearbox | Standard

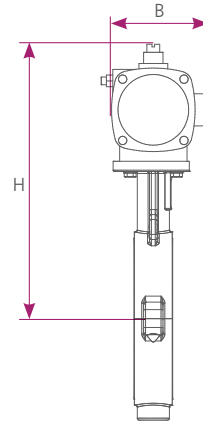
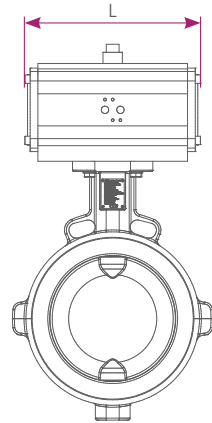


Configuration	
Valve Size	DN025–700
Protection Rating	IP67
Stem Connection	P4

Materials	
Gearcase and Cover	Cast Iron
Quadrant	Ductile Iron
Worm	Carbon Steel
Input Shaft	Carbon Steel
Seals	Nitrile Rubber
Fasteners	Zinc Plated Alloy Steel
Indicator	Stainless Steel
Handwheel DN025–300	Cast Iron
Handwheel DN350–700	Carbon Steel

DN [mm]	25	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700
DN [inch]	1"	1½"	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"
C _g	40	40	40	40	40	40	40	44	50	54	54	60	60	71	71	86	86
Q	91	91	9	91	91	91	91	139	139	156	156	212	212	255	255	255	355
ØR	100	100	100	100	100	100	100	200	200	200	200	300	300	400	400	400	600
S	66	66	66	66	66	66	66	80	92	107	107	115	115	135	135	156	156
T	52	52	52	52	52	52	52	62	63	82	82	84	84	103	103	115	115
U	34	34	34	34	34	34	34	41	41	55	55	55	55	69	69	81	81
V	30	30	30	30	30	30	30	38	38	49	49	48	48	60	60	77	77
kg	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2	2.4	3.9	3.9	4.7	4.7	6.9	6.9	10	10





Double-acting pneumatic actuator [Control Pressure 6.0 bar]

DN [mm]	Code	L [mm]	B [mm]	H [mm]	Actuator Net Weight [kg]
40	ADA40	158	91	209	2.1
50	ADA80	177	111	267	3
65	ADA80	177	111	283	3
80	ADA80	177	111	302	3
100	ADA80	177	111	322	3
125	ADA130	196	122	349	3.8
150	ADA200	225	136	382	5.6
200	ADA300	273	153	427	8.5
250	ADA500	304	173	469	11.2
300	ADA500	304	173	507	11.2
350	ADA850	372	192	551	16.9
400	ADA850	372	192	586	16.9
450	ADA850	372	192	621	16.9
500	ADA1200	439	213	684	25.8
600	ADA2100	510	277	823	49.7
700	ADA2100	510	277	895	49.7
750	ADA4000	630	415	1042	129.4
800	ADA4000	630	415	1071	129.4
900	ADA4000	630	415	1118	129.4
1000	ADA4000	630	415	1166	129.4
1050	ADA4000	630	415	1191	129.4

Single-acting pneumatic actuator [Control Pressure 6.0 bar]

DN [mm]	Code	L [mm]	B [mm]	H [mm]	Actuator Net Weight [kg]
40	ASR80S14A	217	111	231	3.7
50	ASR130S14A	258	122	277	4.8
65	ASR130S14A	258	122	293	4.8
80	ASR200S14A	299	136	330	7.3
100	ASR200S14A	299	136	350	7.3
125	ASR300S14A	349	153	384	10.8
150	ASR500S14A	397	173	416	15.4
200	ASR850S14A	473	192	466	22.2
250	ASR1200S14A	560	213	519	34.3
300	ASR1200S14A	560	213	557	34.3
350	ASR1750S14A	601	243	610	46
400	ASR1750S14A	601	243	645	46
450	ASR2100S14A	702	277	713	68
500	ASR2100S14A	702	277	748	68
600	ASR2500S14A	738	356	893	99.9

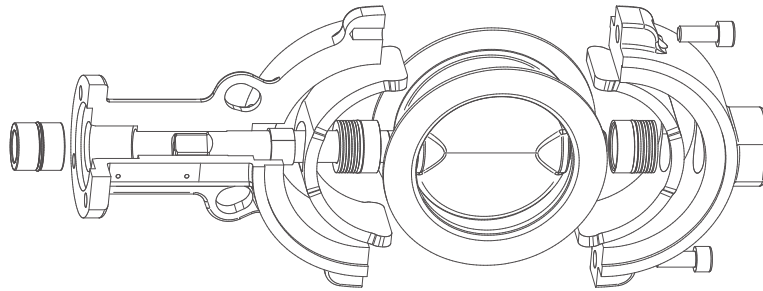
Breakaway Torque [Nm]	
DN [mm]	$\Delta p = 1 \text{ bar}$
25	22
40	22
50	26
65	36
80	46
100	60
125	80
150	110
200	167
250	278
300	333
350	450
400	500
450	600
500	650
600	890
700	1500
750	2000
800	2300
900	2700
1000	3400
1050	3600
1200	4800

Max. Allowable Torque for Stem Connection [Nm]						
DN [mm]	P2			D4/P4		
	Steel 1.4469/1.4462	Titanium Grd.2 3.7035	Hastelloy C 2.4602/2.4819	Steel 1.4469/1.4462	Titanium Grd.2 3.7035	Hastelloy C 2.4602/2.4819
25	112	74	73	48	32	31
40	112	74	73	48	32	31
50	159	105	103	89	59	57
65	159	105	103	89	59	57
80	159	105	103	89	59	57
100	335	222	216	183	121	118
125	335	222	216	183	121	118
150	608	402	393	327	216	211
200	-	-	-	456	302	295
250	-	-	-	664	469	457
300	-	-	-	664	469	457
350	-	-	-	1227	866	845
400	-	-	-	1227	866	845
450	-	-	-	2909	2053	2004
500	-	-	-	2909	2053	2004
600	-	-	-	6069	4283	4181
700	-	-	-	6069	4283	4181
750	-	-	-	10374	7321	7147
800	-	-	-	10374	7321	7147
900	-	-	-	10374	7321	7147
1000	-	-	-	10374	7321	7147
1050	-	-	-	10374	7321	7147
1200	-	-	-	10374	7321	7147

The indicated initial breakaway torque includes 10% security. These values have to be multiplied by 1.2 ($\Delta p \leq 0.5 \times PS$) or 1.4 ($\Delta p = PS$) for dry and unlubricated service.

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Order Code



Order Code

Code Example: CSTPPSG100P4WD1_GS

Disc		Liner		Backup		Body		Size	Stem End		Body Type		Flange		Actuation	
Code	Material	Code	Material	Code	Material	Code	Material		Code	Shape	Code	Style	Code	Pressure Class	Code	Device
P	PFA	P	PTFE	S	VMQ (Silicone)	G	5.3103		P4	Square Parallel	W	Wafer	D1	PN10	BS	Bare Shaft
C	PFAc	T	mPTFE	V	FKM (Viton)	S	1.4404	025-1200	P2	Double D	E	Lug	D2	PN16	HS	Hand Lever
S	Stainless Steel	C	mPTFEc	E	EPDM	M	1.4404 Polished <0.8µm		D4	Square Diagonal			A1	ANSI150	GP	Gearbox Premium
J	1.4404/1.4462 Polished <0.8µm	U	UHMPE	F	FKM Steam & FDA Compatible	E	1.4404 e-polished <0.4µm					J1	JIS 10K	GS	Gearbox Standard	
F	1.4462/1.4462 Polished <0.8µm			L	VMQ (Silicone) Low Temperature	N	1.4301							PS	Single-acting Pneumatic Actuator	
G	1.4404/1.4462 e-Polished <0.4µm					C	C-Steel							PD	Double-acting Pneumatic Actuator	
T	Titanium Grade 2					K	Duroplast									
H	Hastelloy C															
R	1.4539 Polished <0.8µm															
O	Hastelloy C Polished <0.8µm															





PTFE Lined Butterfly Valve

For advanced chemical applications
 DN 25–1200
 PN 10–16 | Class 150 | JIS 10K
 EN 558, Series 20

ChemFlyer | CST





Xtreme Disc Check Valve

DN 15–100
 PN 10–16 | Class 150 | JIS 10K
 EN 558, Series 52

PrimeDisc X | DSF




NEW



PFA Lined Ball Valve

Patented TrueFloat® Technology
 DN 15–200
 PN 10–16 | Class 150 | JIS 10K
 EN 558, Series 1
 ASME B16.10, Table 1, Row 19

ChemBall | CSB




Swing Check Valve

DN 50–1000
 PN 10–40 | Class 150–300
 EN 558, Series 97

PrimeSwing | CSC




PTFE Disc Check Valve

DN 15–150
 PN 10–16 | Class 150 | JIS 10K
 EN 558, Series 52

ChemDisc | DTEF




Dual Plate Check Valve

DN 50–1000
 PN 10–40 | Class 150–300 | JIS 10K
 EN 558, Series 16

Prime2Disc | DDC



ECO



Nozzle Check Valve

Energy saving design
 DN 15–300
 PN 10–40 | Class 150–300 | JIS 10K
 EN 558, Series 52/14

PrimeNozzle | CSL




Strainer

DN 15–300
 PN 6–40
 EN 558, Series 49/52

PrimeFilter | CSF




Standard Disc Check Valve

DN 15–350
 PN 6–40, Class 150–300 | JIS 10K
 EN 558, Series 49/52

PrimeDisc S | CSD/CVD




Resilient Seated Butterfly Valve

For advanced industrial applications
 DN 15–1600
 PN 10–16, Class 150
 EN 558, Series 20

PrimeFlyer | CSR



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