



brands you trust.

Double Offset Butterfly Valve



WENZHOU SHIELD VALVE IND. CO. LTD

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With over 20 years, SHIELD Valve Corporation has continuously produced quality valves for industrial and commercial applications, including oil refining, chemical processing, power, commercial and military shipbuilding, pulp and paper, mining and pharmaceutical processes. And today, SHIELD Corp. is one of the premier quarter-turn butterfly valve manufacturers in China.

SHIELD'S Valves are designed, manufactured and tested to meet and exceed all applicable specifications to which they are constructed. Our goal is simply to furnish high quality valve products at prices competitive in the global marketplace and deliveries to meet the challenges required in today's business environment.

With global operations in over 40 countries, SHIELD has developed a fully integrated and innovative product line which of size range from 1/2" – 120" (DN15-3000); and pressure rating from 150LB-900LB with kinds of materials. These products are engineered to meet the needs and expectations of our customers. We have years of experience working on special requirements: electric, hydraulic or pneumatic automation, emergency shut-off valves, soft seats and discs, by-pass valve installations and cryogenic extensions, which all fully comply with ASTM, ANSI, API, BS, DIN and JIS standards.

we are a real manufacturer who may offer you the benefits below:

- To offer optimal valve solution; cut cost for you;
- valve consultation, offering technical support;
- Offer precision machining and OEM service;
- Test and inspect each of them; control the exact lead time;
- To install actuators and each parts;

Experience and business

- Process valves over 10 years;
- Good exporting business in European, Arabica world U.S.A and Japan;
- 24 hours post service and problem-solving;
- Log-term guarantee period.



DOUBLE OFFSET

The specialist for hydraulic power

Designed to provide cost effective, reliable control, easily maintained valves for use in low-pressure applications, the double offset with soft seat valve was developed.

The soft seal option provides excellent sealing capabilities in both directions which delivers excellent shut-off against applications. pressure applied in the recommended flow direction for both liquid and gas.

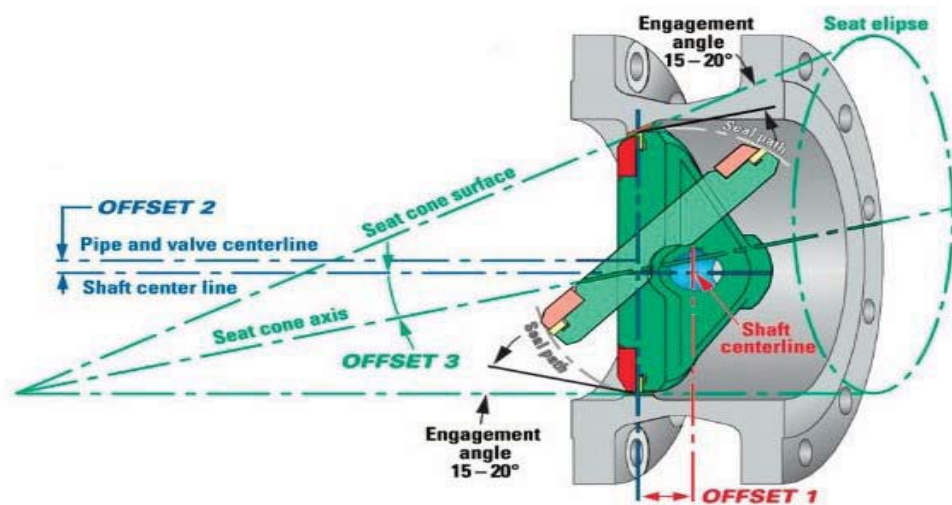
Optimized structure

- Heavy-duty solid body construction provides rigid support;
- Robust parts for trouble free service and low maintenance costs;
- Field-replaceable seat located in valve body, away from flow, provides bubble tight shut off;
- Available with low noise and anti-cavitation options;
- Low friction bearings provide maximum radial support;
- Bi-directional seal.



DESIGN FEATURES:

- GOOD FLOW REGULATING FUNCTION AND SEALING PERFORMANCE.
- DIFFERENT SEAT DESIGNS SATISFY VARIOUS SERVICE CONDITIONS.
- THE DISC CAN MOVE AWAY FROM THE SEAT FAST WHEN OPENING TO REDUCE THE FRICTION, AND THEN PROLONG THE VALVE LIFE.
- SEALING PRINCIPLE: TWO OFFSET DESIGNS I.E. THE OFFSET BETWEEN THE STEM'S ROTATION AXIS AND THE CENTERLINE OF VALVE BODY; AND THE OFFSET BETWEEN THE STEM'S ROTATION AXIS AND THE CENTERLINE OF VALVE SEAT RING. THE RUBBER SEAT IS SQUEEZED BY THE DISC'S OUTER EDGE SLOWLY AND GRADUALLY DURING ROTATION, WHICH FURTHER PRODUCED ELASTIC DEFORMATION, TO ENSURE THE VALVE CLOSURE WITH THE TIGHT SEALING RESULT.



DESIGN FEATURE

- Designed in accordance with ASME B 16.34 or other customer requirements.
- Fire safe design

STANDARD

OPTION

FACE TO FACE DIMENSIONS

WAFER AND LUG TYPE

- API 609 Table 2./ MSS-SP-68 Table 1
Class 150 & 300 : 3"~ 24"
Class 600 : 3"~ 12"

- ISO 5752 Table 5
Class 150 & 300 : 28"~ 48"
Class 600 : 14"~ 24"

DOUBLE FLANGE

- ISO 5752 Table 4, BS 5155 Table 6 (short)
Class 150 & 300 : 3"~ 24"
ISO 5752 Table 4, BS 5155 Table 6 (long)
Class 600 : 3"~ 12"

- ISO 5752 Table 4, BS 5155 Table 6 (short)
Class 150 & 300 : 28"~ 80"
ISO 5752 Table 4, BS 5155 Table 6 (long)
Class 150 & 300 : 3"~ 80"
Class 600 : 14"~ 24"

- ASME B16.10
Class 150 & 300 : 3"~ 24"
Class 600 : 3"~ 24"

BUTT WELDING

- ISO 5752 Table 4, BS 5155 Table 6(long)
Class 150 & 300 : 3"~ 80"
Class 600 : 3"~ 24"

END FLANGE

- ASME B16.5 : Class 150, 300, 600
JIS B2210 : 10K, 16K, 20K, 30K, 40K
DIN, ISO PN10, PN16, PN20, PN25, PN40

- ASME B16.47 series A : Class 150, 300
MSS-SP-44 : Class 150, 300, 600
BS 3293 : Class 150, 300

OPERATING

- MAUNAL WORM GEAR

- ELECTRIC, PNEUMATIC & HYDRAULIC
ACTUATOR LOCK LEVER

MOUNTING FLANGE

- ISO 5211

TESTING

- API 598

- MSS-SP-61, ANSI B16.104

BODY

- The valve body shall be one piece cast or fabrication.
- The body can be supplied with different types of materials in wafer, lug, or flanged and butt welding end connections to satisfy all installation requirements.

BODY SEAT

- The valve seat shall be integrated with the body.
- The valve seat is designed for inclined cone to ensure non-jamming, bi-directional shutoff, and zero leakage.

DISC

- The valve disc shall be the same material as the valve body. It is supported by rubber or PTFE seal ring, which is kept in place by seat retainer ring bolted to the disc and can be replaced easily.
- The spiral wound gasket shall be provided between seal ring and disc.

SEAL RING

- The seal ring shall be resilient rubber material, such as EPDM, NBR or PTFE, RPTFE and etc.
- The surface contacting between seal ring and body seat is an inclined cone type and the inclined angle generates a slight wedging effect.
- With a seat retainer ring bolted to the disc, the seal ring is fixed to disc not too tightly to be replaced easily.

STEM

- The stem shall be stainless steel and one piece & two piece construction.
- The stem shall be fixed to the disc by pin or in combination of pin and key.
It can be protected by internal thrust bush and bush bearing.
- The thrust bush and bush bearing shall be provided to locate the valve disc in a proper position.
- The retainer ring shall be installed to avoid blowing out the stem.

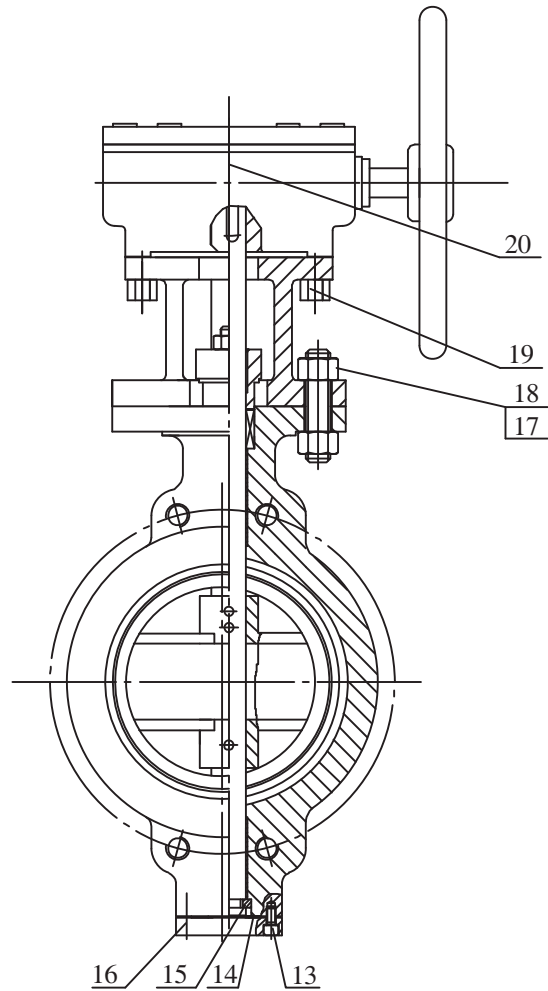
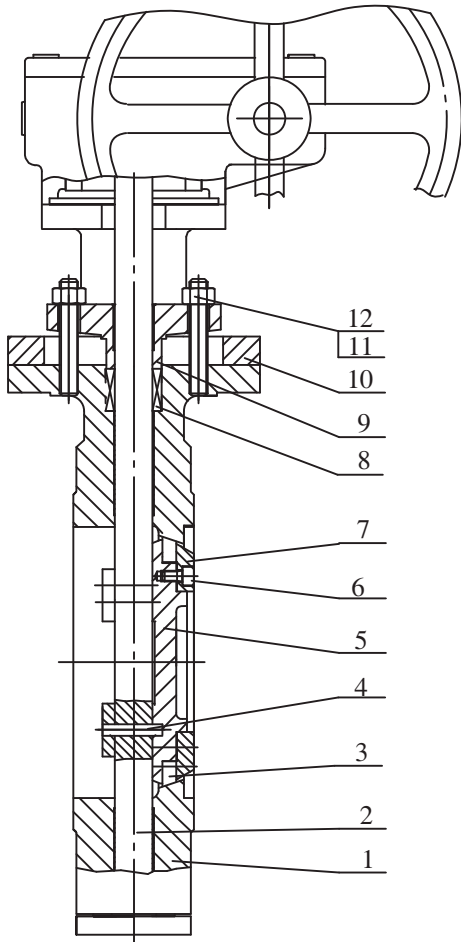
PACKING

- The packing shall be consist of two braided rings in the top and bottom of valve and three die formed rings in the middle.
- The lantern ring may be provided as required by customer.

ACTUATORS

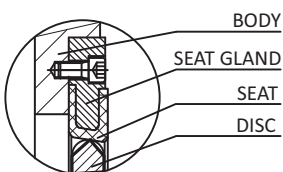
- All valves shall be self-locking manual gear operation type which is served as standard.
- Electric, pneumatic or hydraulic actuator may be provided as required by customer.

PART NAME AND MATERIAL

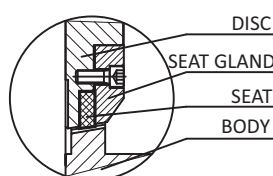


TYPES OF SEAT:

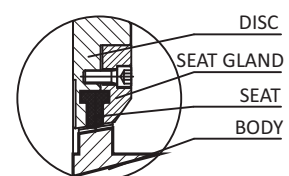
1. SEAT ON THE BODY



2. SEAT ON THE DISC



3. T-SHAPED SEAT

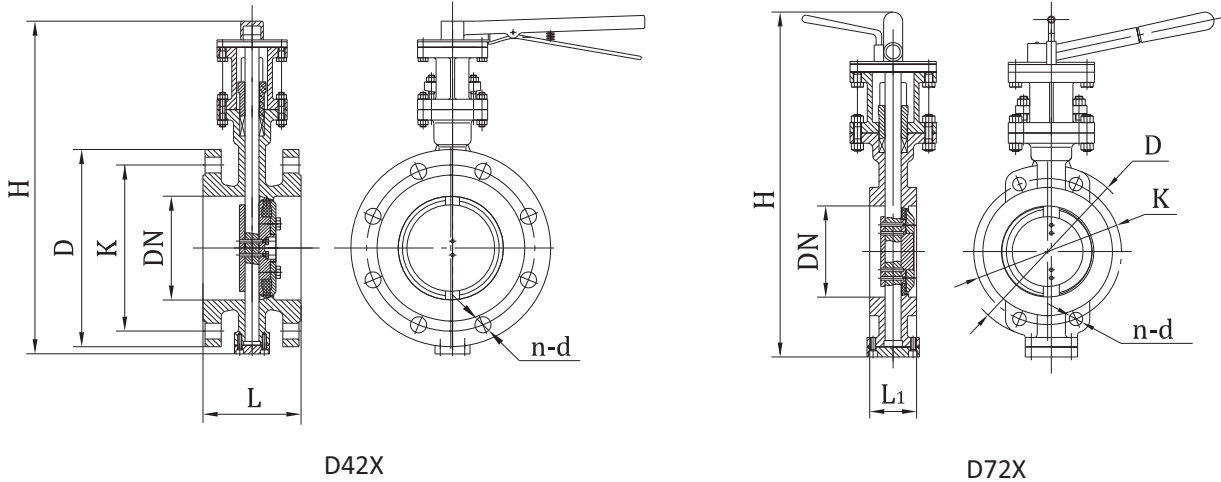


STANDARD MATERIAL LIST

ITEM	PART NAME ITEM	STANDARD	LOW TEMPERATURE	STAINLESS STEEL
1	BODY	ASTM A216 WCB	ASTM A352 LCC	ASTM A351 CF8M
2	STEM	ASTM A182 F6	AISI 4140 / 4340	ASTM A182 F316
3	SEAT	PTFE / RUBBER		
4	PIN	ASTM A276 410	ASTM A276 304	ASTM A276 316
5	DISC	ASTM A216 WCB	ASTM A352 LCC	ASTM A351 CF8M
6	SCREW	CARBON STEEL	STAINLESS STEEL	STAINLESS STEEL
7	SEAT GLAND	CARBON STEEL	STAINLESS STEEL	STAINLESS STEEL
8	PACKING	GRAPHITE / PTFE		
9	GLAND FLANGE	ASTM A216 WCB	ASTM A216 WCB	ASTM A351 CF8
10	YOKE	ASTM A216 WCB	ASTM A216 WCB	ASTM A351 CF8
11	GLAND NUT	ASTM A194 2H/2HM	ASTM A194 7/7M	ASTM A194 8M
12	EYEBOLT	ASTM A193 B7/B7M	ASTM A320 L7/L7M	ASTM A193 B8M
13	COVER BOLT	ASTM A193 B7/B7M	ASTM A320 L7/L7M	ASTM A193 B8M
14	GASKET	SS304 / SS316+GRAPHITE		
15	SPLINT COLLAR	CARBON STEEL	STAINLESS STEEL	316 SS
16	COVER	ASTM A216 WCB	ASTM A352 LCC	ASTM A351 CF8M
17	YOKE BOLT	ASTM A193 B7 / B7M	ASTM A193 B7/B7M	ASTM A193 B8
18	YOKE NUT	ASTM A194 2H / 2HM	ASTM A194 2H/2HM	ASTM A194 8
19	BOLT	CARBON STEEL	CARBON STEEL	CARBON STEEL
20	GEAR	ASSEMBLY		
	SEALING FACE OVERLAY	API TRIMS AVAILABLE		

GEAR OPERATOR ELECTRICAL OPERATOR PNEUMATIC OPERATOR HYDRAULIC OPERATOR ETC. ARE AVAILABLE
 NOTE: OTHER MATERIALS ARE AVAILABLE UPON REQUEST.

Dimension and connection size 1



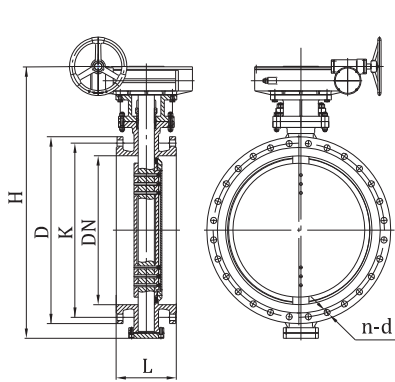
D42X-25、150 LB D72X-25、150LB

Size		DIMENSION			125LB、150LB			2.5MPa		
DN	NPS	L	L ₁	H	D	K	n-d	D	K	n-d
50	2	108	43	380	150	120.7	4-Φ18	165	125	4-Φ18
65	2 1/2	112	46	420	180	139.7	4-Φ18	185	145	8-Φ18
80	3	114	49	465	190	152.4	4-Φ18	200	160	8-Φ18
100	4	127	56	515	230	190.5	8-Φ18	235	190	8-Φ22
125	5	140	64	550	255	215.9	8-Φ22	270	220	8-Φ26
150	6	140	70	585	280	241.3	8-Φ22	300	250	8-Φ26
200	8	152	71	725	345	298.5	8-Φ22			
250	10	165	76	780	405	362	12-Φ26			

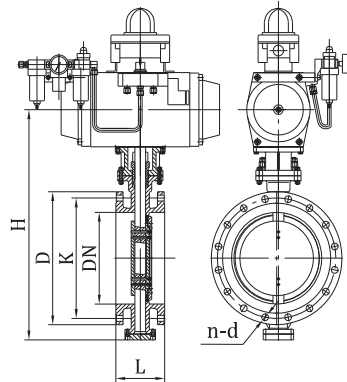
D42X-6、10、16 D72X-6、10、16

SIZE		DIMENSION			≤0.6MPa			1.0MPa			1.6MPa		
DN	NPS	L	L ₁	H	D	K	n-d	D	K	n-d	D	K	n-d
50	2	108	43	380	140	110	4-Φ14	165	125	4-Φ18	165	125	4-Φ18
65	2 1/2	112	46	420	160	130	4-Φ14	185	145	4-Φ18	185	145	4-Φ18
80	3	114	49	465	190	150	4-Φ18	200	160	8-Φ18	200	160	8-Φ18
100	4	127	56	515	210	170	4-Φ18	220	180	8-Φ18	220	180	8-Φ18
125	5	140	64	550	240	200	8-Φ18	250	210	8-Φ18	250	210	8-Φ18
150	6	140	70	585	265	225	8-Φ18	285	240	8-Φ22	285	240	8-Φ22
200	8	152	71	725	320	280	8-Φ18	340	295	8-Φ22	340	295	12-Φ22
250	10	165	76	780	375	335	12-Φ18	395	350	12-Φ22	405	355	12-Φ26

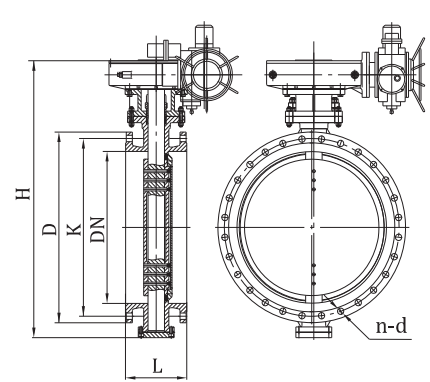
Dimension and connection size 2



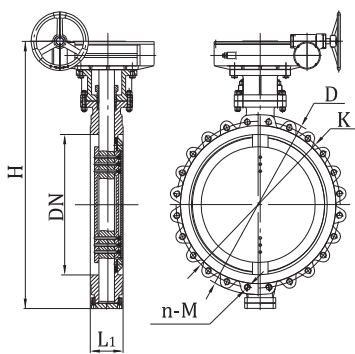
D342X



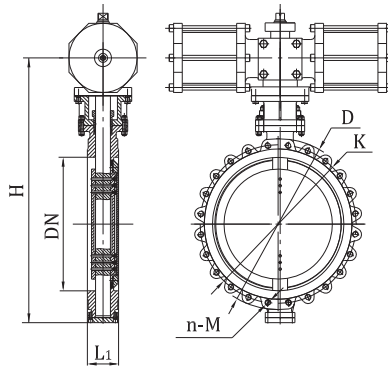
D642X



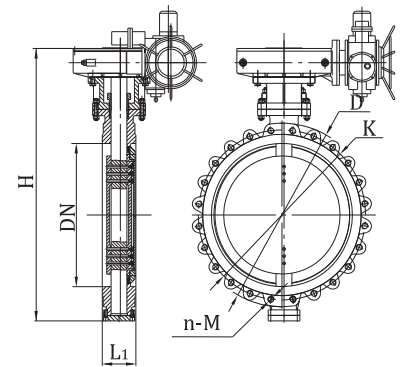
D942X



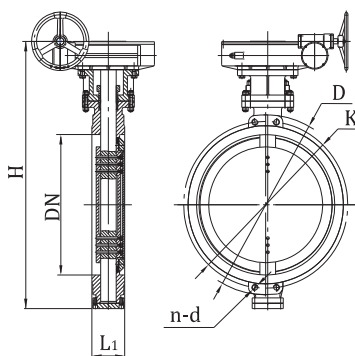
D37T2X



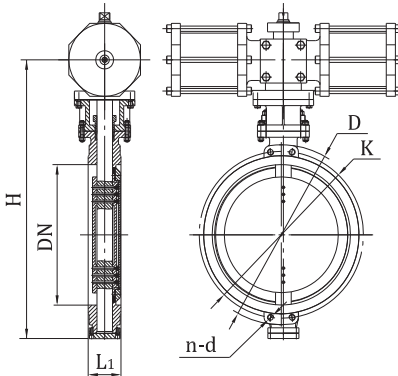
D67T2X



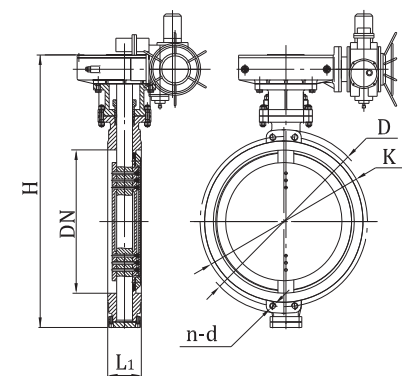
D97T2X



D372X



D672X



D972X

D3 (6, 9) 42X-25、150LB D3 (6, 9) 7T2X-25、150LB D3 (6, 9) 72X-25、150LB

SIZE		DIMENSION			125LB、150LB				2.5MPa			
DN	NPS	L	L ₁	H	D	K	n-d	n-M	D	K	n-d	n-M
100	4	127	56	515	230	190.5	8-Φ18	8- ⁵ / ₈	235	190	8-Φ22	8-M20
125	5	140	64	550	255	215.9	8-Φ22	8- ³ / ₄	270	220	8-Φ26	8-M24
150	6	140	70	585	280	241.3	8-Φ22	8- ³ / ₄	300	250	8-Φ26	8-M24
200	8	152	71	725	345	298.5	8-Φ22	8- ³ / ₄	360	310	12-Φ26	12-M24
250	10	165	76	780	405	362	12-Φ26	12- ⁷ / ₈	425	370	12-Φ30	12-M27
300	12	178	83	850	485	431.8	12-Φ26	12- ⁷ / ₈	485	430	16-Φ30	16-M27
350	14	190	92	920	535	476.3	12-Φ30	12-1	555	490	16-Φ33	16-M30
400	16	216	102	965	595	539.8	16-Φ30	16-1	620	550	16-Φ36	16-M33
450	18	222	114	1035	635	577.9	16-Φ33	16-1 ¹ / ₈	670	600	20-Φ36	20-M33
500	20	229	127	1240	700	635	20-Φ33	20-1 ¹ / ₈	730	660	20-Φ36	20-M33
600	24	267	154	1370	815	749.3	20-Φ36	20-1 ¹ / ₄	845	770	20-Φ39	20-M36

D3 (6, 9) 42X-10、16 D3 (6, 9) 7T2X-10、16 D3 (6, 9) 72X-10、16

SIZE		DIMENSION			1.0MPa				1.6 MPa			
DN	NPS	L	L ₁	H	D	K	n-d	n-M	D	K	n-d	n-M
100	4	127	56	515	220	180	8-Φ18	8-M16	220	180	8-Φ18	8-M16
125	5	140	64	550	250	210	8-Φ18	8-M16	250	210	8-Φ18	8-M16
150	6	140	70	585	285	240	8-Φ22	8-M16	285	240	8-Φ22	8-M20
200	8	152	71	725	340	295	8-Φ22	8-M20	340	295	12-Φ22	12-M20
250	10	165	76	780	395	350	12-Φ22	12-M20	405	355	12-Φ26	12-M24
300	12	178	83	850	445	400	12-Φ22	12-M20	460	410	12-Φ26	12-M24
350	14	190	92	920	505	460	16-Φ22	16-M20	520	470	16-Φ26	16-M24
400	16	216	102	965	565	515	16-Φ26	16-M24	580	525	16-Φ30	16-M27
450	18	222	114	1035	615	565	20-Φ26	20-M24	640	585	20-Φ30	20-M27
500	20	229	127	1240	670	620	20-Φ26	20-M24	715	650	20-Φ33	20-M30
600	24	267	154	1370	780	725	20-Φ30	20-M27	840	770	20-Φ36	20-M33
700	28	292	165	1490	895	840	24-Φ30	24-M27	910	840	24-Φ36	24-M33
800	32	318	190	1605	1015	950	24-Φ33	24-M30	1025	950	24-Φ39	24-M36
900	36	330	203	1705	1115	1050	28-Φ33	28-M30	1125	1050	28-Φ39	28-M36
1000	40	410	216	1820	1230	1160	28-Φ36	28-M33	1255	1170	28-Φ42	28-M39
1100	44	410	216	1920	1330	1260	32-Φ36	32-M33	1355	1270	32-Φ42	32-M39
1200	48	470	254	2200	1455	1380	32-Φ39	32-M36	1485	1390	32-Φ48	32-M45
1400	56	530	279	2340	1675	1590	36-Φ42	36-M39	1685	1590	36-Φ48	36-M45
1500	60	530	279	2450	1775	1690	40-Φ42	40-M39	1785	1690	40-Φ48	40-M45
1600	64	600	318	2620	1915	1820	40-Φ48	40-M45	1930	1820	40-Φ56	40-M52
1800	72	670	356	2910	2115	2020	44-Φ48	44-M45	2130	2020	44-Φ56	44-M52
2000	80	760	406	3110	2325	2230	48-Φ48	48-M45	2345	2230	48-Φ62	48-M56

D3 (6, 9) 42X-2.5、6 D3 (6, 9) 7T2X-2.5、6 D3 (6, 9) 72X-2.5、6

SIZE		DIMENSION			≤0.25MPa				0.6MPa			
DN	NPS	L	L ₁	H	D	K	n-d	n-M	D	K	n-d	n-M
150	6	140	70	585	265	225	8-Φ18	8-M16	265	225	8-Φ18	8-M16
200	8	152	71	725	320	280	8-Φ18	8-M16	320	280	8-Φ18	8-M16
250	10	165	76	780	375	335	12-Φ18	12-M16	375	335	12-Φ18	12-M16
300	12	178	83	850	440	395	12-Φ22	12-M20	440	395	12-Φ22	12-M20
350	14	190	92	920	490	445	12-Φ22	12-M20	490	445	12-Φ22	12-M20
400	16	216	102	965	540	495	16-Φ22	16-M20	540	495	16-Φ22	16-M20
450	18	222	114	1035	595	550	16-Φ22	16-M20	595	550	16-Φ22	16-M20
500	20	229	127	1240	645	600	20-Φ22	20-M20	645	600	20-Φ22	20-M20
600	24	267	154	1350	755	705	20-Φ26	20-M24	755	705	20-Φ26	20-M24
700	28	292	165	1470	860	810	24-Φ26	24-M27	860	810	24-Φ26	24-M24
800	32	318	190	1570	975	920	24-Φ30	24-M27	975	920	24-Φ30	24-M27
900	36	330	203	1675	1075	1020	24-Φ30	24-M27	1075	1020	24-Φ30	24-M27
1000	40	410	216	1780	1175	1120	28-Φ30	28-M27	1175	1120	28-Φ30	28-M27
1100	44	410	216	1890	1275	1220	32-Φ30	32-M27	1275	1220	32-Φ30	32-M27
1200	48	470	254	2120	1375	1320	32-Φ30	32-M27	1405	1340	32-Φ33	32-M30
1400	56	530	279	2260	1575	1520	36-Φ30	36-M27	1630	1560	36-Φ36	36-M30
1500	60	530	279	2370	1675	1620	40-Φ30	40-M27	1730	1660	40-Φ36	40-M30
1600	64	600	318	2540	1790	1730	40-Φ30	40-M27	1830	1760	40-Φ36	40-M30
1800	72	670	356	2820	1990	1930	44-Φ30	44-M27	2045	1970	44-Φ39	44-M36
2000	80	760	406	3020	2190	2130	48-Φ30	48-M27	2265	2180	48-Φ42	48-M39
2200	88	800		3350	2405	2340	52-Φ33	52-M30	2475	2390	52-Φ42	52-M39
2400	96	850		3580	2605	2540	56-Φ33	56-M30	2685	2600	56-Φ42	56-M39
2600	104	900		3820	2805	2740	60-Φ33	60-M30	2905	2810	60-Φ48	60-M45
2800	112	950		4095	3030	2960	64-Φ36	64-M33	3115	3020	64-Φ48	64-M45
3000	120	1000		4360	3230	3160	68-Φ36	68-M33	3315	3220	68-Φ48	68-M45

NOTE: 1.THE VAULE "H" ONLY FOR REFERENCE. 2.THE OTHER DIMENSION AND SIZE COULD BE CUSTOMIIZED. 3. SERIES 'A' AND SERIES 'B' OF CLASS FLANGE IS SPECIFIED WHEN THE VALVE SIZE IS OVER 24", PLEASE INDICATE WHICH ONE YOU NEED WHEN ORDER ISSUED.

Material Pressure Temperature Ratings

Component		Material	Temperature range (°F)	Maximum body pressure rating at 100 °F (psig)			Note
				CL150	CL300	CL600	
BODY & DISC	STANDARD	WCB - ASTM A216 (carbon steel)	-20 to 800	285	740	1480	(1)
		CF8M - ASTM A351 (316SST)	-425 to 1500	275	720	1440	(3)(4)
	OPTIONAL	LCB - ASTM A352 (carbon steel low temp.)	-50 to 650	265	695	1390	
		LCC - ASTM A352 (carbon steel low temp.)	-50 to 650	290	750	1500	
		LC3 - ASTM A352 (carbon steel low temp.)	-150 to 650	290	750	1500	
		WC6 - ASTM A217 (Cr-Mo steel)	-20 to 1050	290	750	1500	(2)(3)
		WC9 - ASTM A217 (Cr-Mo steel)	-20 to 1100	290	750	1500	(2)(3)
		CF8 - ASTM A351 (304SST)	-425 to 1500	275	720	1440	(3)(4)
		CF8C - ASTM A35 (347SST)	-325 to 1500	275	720	1440	(3)(4)
		CG8M - ASTM A351 (317 SST)	-425 to 1000	275	720	1440	(3)
		CN7M - ASTM A351 (ALLOY 20)	-325 to 600	230	600	1200	(5)
		CD4MCu - ASTM A351 (Duplex)	-425 to 600	290	750	1500	
		CZ100 - ASTM A494 (Nickel)	-325 to 600	140	360	720	(6)
		CY40 - ASTM A494 (Inconel 600)	-325 to 1200	290	750	1500	(6)(3)
		M30C - ASTM A494 (Monel 400)	-325 to 900	230	600	1200	(6)
		CW12MW - ASTM A494 (Hastelloy C)	-325 to 1000	230	600	1200	(5)
		C95500 - ASTM B148 (Ni-Al-Bz)	-425 to 600	Contact Tricentric Sales Rep.			
		GRADE 3 TITANIUM	-75 to 600	Contact Tricentric Sales Rep.			
		SEAT	STANDARD	Integral cast on stainless and exotic	per body material		
OPTIONAL	ALLOY 6			-425 to 1500			
OPTIONAL	ALLOY 21		-425 to 800				
	INCOLLOY 825		-20 to 1200				
SHAFT	STANDARD	S17400 (17.4 PH DH1150) - Full Rated	-325 to 850			(7)	
	OPTIONAL	316SST- Reduced Rated	-425 to 600			(8) (11)	
		ALLOY 20 - Reduced Rated	-325 to 800			(8) (11)	
		INCONEL 600 - Reduced Rated	-325 to 900			(8) (11)	
		INCONEL 625 - Reduced Rated	-325 to 1200			(8) (11)	
		MONEL K500 - Full Rated	-325 to 900			(11)	
		INCONEL 718/750 - Full Rated	-20 to 1500			(11)	
		Stainless or Exotic equal to body grade	per body material			(8) (11)	

Component		Material	Temperature range (°F)	Maximum body pressure rating at 100 °F (psig)			Note
				CL150	CL300	CL600	
SEAL STACK	STANDARD	EPDM	-113 to 302				(9)
	OPTIONAL	NBR	-104 to 250				
		PTFE/RPTFE	-140 to 500				
		Viton	-68 to 480				
		Silicon	-113 to 480				(9)
		CR	-113 to 250				
		IIR	-120 to 250				(9)
BEARING	STANDARD WAFER & LUG	CL150 - Graphite	-400 to 1700				(10)
		CL300 and CL600 - Nitronic 60	-325 to 1500				
	OPTIONAL STANDARD FLANGED	Graphite (CL150 and CL300)	-400 to 1700				(10)
		Nitronic 60 (CL600)	-325 to 1500				
	OPTIONAL	PTFE composition	-425 to 325				(8)
		Stellite #6	-425 to 1500				
		Bronze	-425 to 600				(8)
Ceramic composition		-20 to 2500				(8)	
PACKING	STANDARD	J.C. 387I and Grafoil	-400 to 1200				(9)
	OPTIONAL	PTFE Chevron	-425 to 450				
		PTFE Braided	-425 to 450				

Note:

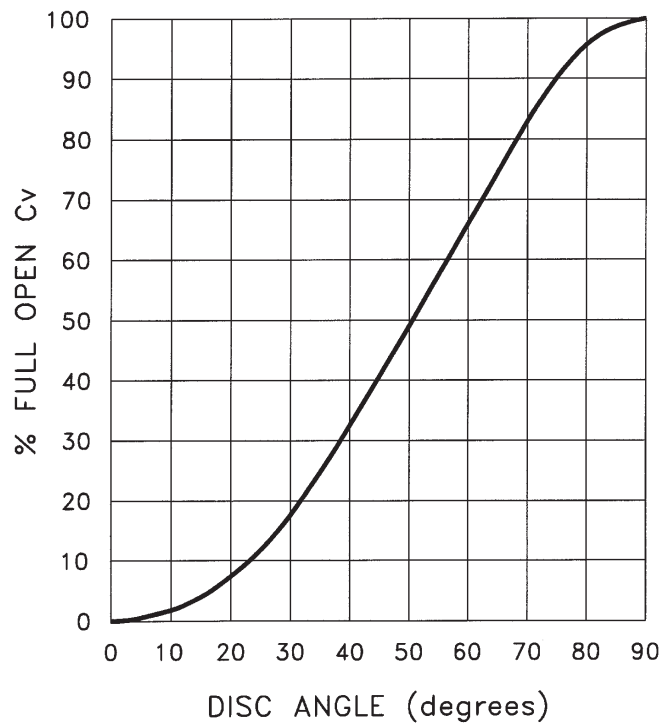
1. Per ASME B16.34 – Permissible but not recommended for prolonged use above 800° F.
2. Per ASME B16.34 – Use normalized and tempered material only.
3. Per ASME B16.34 – Use of a flanged valve in CL150 ANSI above 1000°F not recommended.
4. Per ASME B16.34 – At temperatures over 1000°F, use only when the carbon content is 0.04% or higher.
5. Per ASME B16.34 – Use solution annealed material only.
6. Per ASME B16.34 – Use annealed material only.
7. Long exposure above 600°F may cause embrittlement.
8. Use of this material may result in a reduced differential pressure rating. Contact sales representative.
9. Upper temperature limit reduced to 850°F in oxidizing media
10. Upper temperature limit reduced to 850°F in oxidizing atmosphere.
11. Upper temperature limit is specified as a general guide based on code, specification and minimum torsional seating requirements. Use of material above this limit may violate these requirements. Contact a Weir sales or engineering representative for specific application material evaluation.

Flow Coefficient (Cv)

ANSI CLASS/BAR	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"	40"	42"	46"	48"	54"	60"
150/16	188	343	868	1678	2500	3510	5,515	8,440	11,285	14,092	20,587	33,700	50,470	64,000	71,100	87,300	95,740	120,750	147,000
300/40	188	343	868	1,678	2,500	3,510	4,942	7,596	10,394	12,965	18,962	29,600	42,700		58,100				
600/100			744	1,450	2,125	2,730	4,217	6,487	8,874	11,071	16,188								

Typical Flow Characteristics

For control applications a wide variety of actuators and accessories can be provided. At moderate pressure drop conditions, turndown approaching 100 to 1 can be achieved because of the camming action of the disc opening. The disc lifts off the seat very quickly and an equal percentage control curve is produced between 15° to 75°.





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