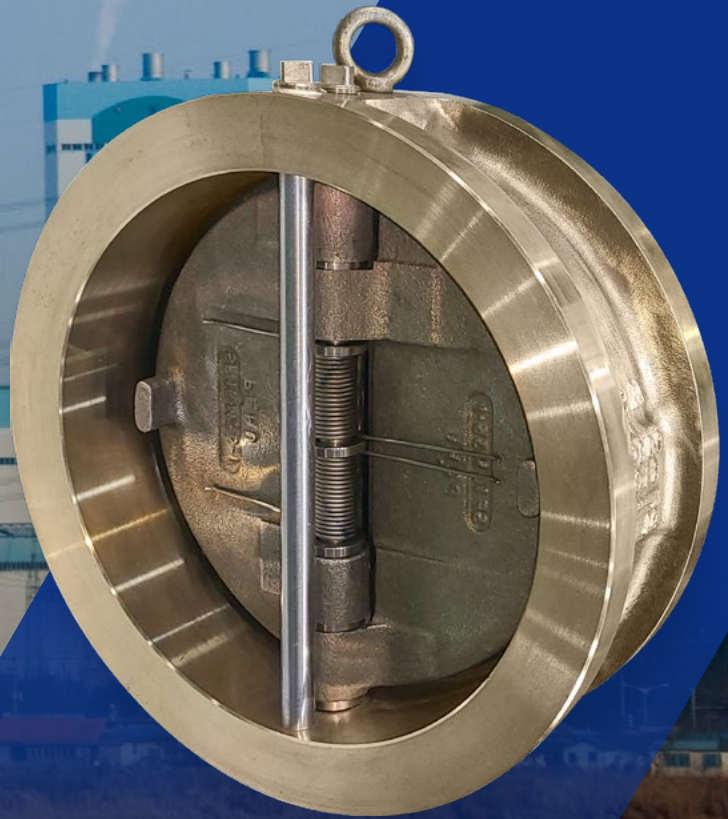




SEJIN FS

QUALITY PRODUCTS,
SERVICE & RELIABILITY

DUAL PLATE CHECK VALVES



/ 인사말 GREETING

이번 기회를 빌어 당사 현황과 사업활동을 소개드림을 기쁘게 생각하는 바입니다.
2013년 설립 이래 세진에프에스는 국내외에 상·하수도 설비, 발전설비에 밸브를 제작하여 왔습니다.
더 나은 제품을 위해 지속적으로 과감한 연구개발 투자를 하고 있으며 ISO 9001, KS, KC 같은 안정적이고 신뢰성이 구축된 품질시스템을 통하여 고객에게 더 나은 서비스와 고품질 제품을 제공하고자 최선의 노력을 다하고 있습니다. 끝으로 언제나 우리 회사에 대한 관심과 격려에 깊은 감사를 드립니다.

We are pleased to take this opportunity to introduce our current status and business activities. Since its establishment in 2013, Sejin FS has been manufacturing valves at home and abroad for water and sewage facilities and power generation facilities. We continue to make bold R&D investments for better products and do our best to provide better services and high-quality products to customers through stable and reliable quality systems such as ISO 9001, KS, and KC.

Finally, Thank you for your interest and encouragement in our company.

/ HISTORY

- 2013** (주)세진플류솔루션 설립
Established
- 2014** ISO 9001, 14001 인증획득
Acquired Certificate of ISO 9001 and ISO 14001
- 2015** USA 수출 \$500,000 달성
Achieved export to USA (\$500,000)
- 2017** 국내 5개 발전사 정비적격업체 통합 등록 (버터플라이밸브, 게이트밸브, 글로브밸브 등)
Registered as one of Supplying Vendor for Korea Electric Power Corporation
한전KPS(주) 정비적격업체 등록
Registered as one of Supplying Vendor for KPS
- 2018** (주)세진FS로 사명 변경
Changed company name to Sejin FS Co., Ltd.
- 2019** 기계설비공사업 등록
Registration of mechanical equipment construction business.
- 2021** KS B 2333(버터플라이 밸브) 인증
Acquired Certificate of KS(KS B 2333)
한국상하수도협회 KC위생안전인증획득
Acquired Certificate of KC
- 2022** 국내 5개 발전사 기자재 공급 유자격 등록 (접형 밸브)
Registered rights to supply equipment to 5 power plants in Korea (butterfly valve)



인증현황 CERTIFICATION



ISO 9001:2015



KC 위생안전기준 인증서



KS 제품인증서



건설업등록증



기업부설연구소 인정서



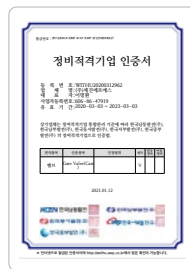
벤처기업확인서



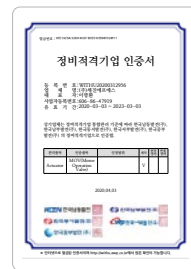
수출유망 중소기업 지정증



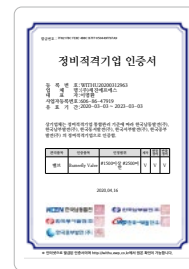
기술혁신형 중소기업 확인서



정비적격기업인증서



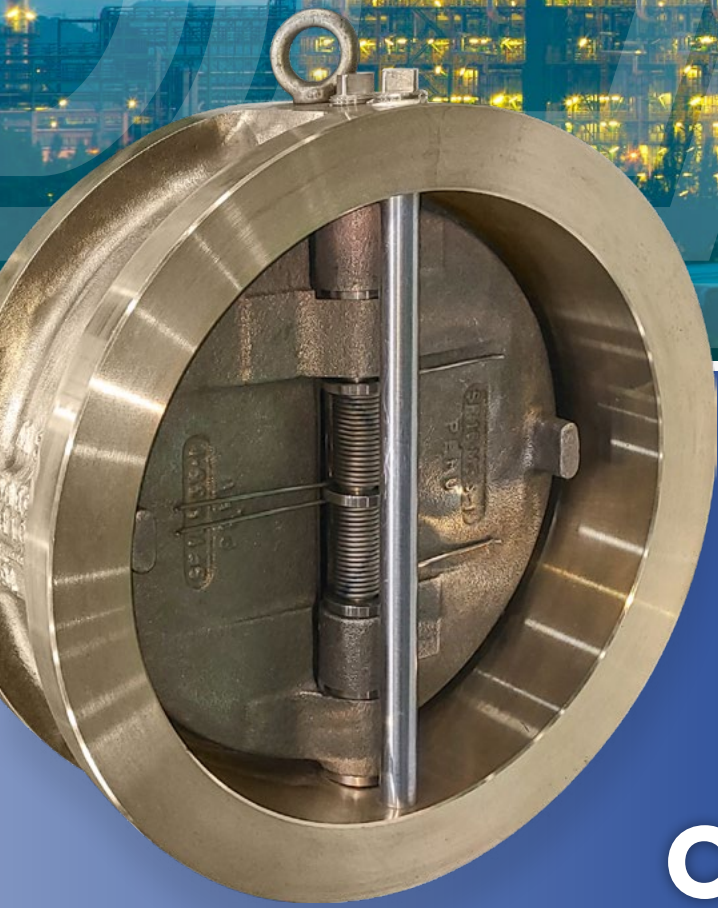
정비적격기업인증서



정비적격기업인증서



기자재공급 유자격 등록증 (접형별B)



SEJIN FS Co., Ltd.

DUAL PLATE CHECK VALVES



/ Light weight, versatile design

80% to 90% less than conventional full-body swing check valves

- Simplifies piping
- Reduces thermal and seismic considerations
- Optimizes space utilization
- Lowers installation costs
- Reduces pipe supports
- Requires less number of man-hours



/ Dual Discs open to 85 degrees

- Low cracking pressure and overall pressure drop
- Ensures positive closure



/ Spring-loaded discs calculated to increase the responsiveness of the discs

- Alleviates water hammer and resultant damaging effects



/ Extended long-leg spring

- Prevents seat wear caused by scrubbing

PRODUCTS LINE-UP

DUAL PLATE CHEK VALVES



/ GENERAL APPLICATION

- General service piping systems
- Water, Oil, gasoline, Chemicals
- Gas (compressible gases)
- Air (compressed air and blower)



/ INSTALLATION

- **SEJIN FS** wafer check valves are designed for installation in flanged piping systems, between two flanges. Valves may be installed in vertical or horizontal piping. Care must be taken to always install the valves with the shafts in a vertical position when installing in a horizontal pipeline. Vertical up flow is always a good installation. Consult factory for vertical down flow.
- **SEJIN FS** wafer check valves are designed to provide long service life if the velocity is kept within the flow rate shown in the table on page 8~9 and if a minimum of 5 pipe diameters of straight pipe in front of the valve is maintained downstream from a likely cause of turbulence (i.e., pump discharge, reducers or elbows).



/ INDUSTRY STANDARDS

- ASME B16.1, B16.5, B16.34, B16.47 and B31.1
- API 594 and 598
- MSS-SP-25, MSS-SP-55
- API 6A and 6D (as applicable)
- MSS-SP-61 (standard for the resilient seated, metal seated when required)

FIGURE NUMBER INFORMATION

DUAL DISC – SCV / RSV STYLE

/ Style

SCV Standard Type

RSV Retainerless Type

/ ASME/API SERIES

15 = 150 Class

30 = 300 Class

40 = 400 Class

60 = 600 Class

90 = 900 Class

150 = 1500 Class

250 = 2500 Class

/ BODY & DISCS

ORDERING LETTER	MATERIAL	SPECIFICATION
A	Aluminum Bronze	ASTM B148, Alloy 952; BS 1400, Alloy AB2
B	Bronze	ASTM B62, C83600
C	Carbon Steel	ASTM A216, Gr. WCB
D	Duplex	ASTM A890, Gr. 5A
F	Alloy 20	ASTM A351, Gr. CN7M
G	Cast Iron	ASTM A126; Gr.B
H	Hastelloy C276	ASTM A494, Gr. CW12MW

ORDERING LETTER	MATERIAL	SPECIFICATION
J	410 Stainless Steel	ASTM A217, Gr. CA15 (12% Cr)
K	317 Stainless Steel	ASTM A351, Gr. CG8M
L	Ductile Iron	ASTM A536; Gr.65-45-12
M	Monel	ASTM A494, Gr. M-35-1
N	Nickel	ATM A494, Gr. CZ-100
S	316 Stainless Steel	ASTM A351, Gr. CF8M
T	304 Stainless Steel	ASTM A351, Gr. CF8

/ SEAT

ORDERING LETTER	MATERIAL	OPERATING TEMPERATURE	
		°C	°F
B	Buna-N	-57 to 120	-70 to 250
E	EPDM	-18 to 135	0 to 300
H	Silicone	-18 to 260	0 to 500
J	410 SS	-267 to 537	-450 to 1000+
L	Stellite	-267 to 537	-450 to 1000+
N	Neoprene	-40 to 120	-40 to 250
P	Integral Metal	-267 to 537	-450 to 1000+
S	316 SS	-267 to 537	-450 to 1000+
T	Teflon	-40 to 149	-40 to 300
V	Viton	-40 to 204	-40 to 400

/ SPRING

ORDERING LETTER	MATERIAL	OPERATING TEMPERATURE	
		°C	°F
S	316 SS	260	500
M	Monel	232	450
W	Inconel	371	700
X	Inconel X-750	593	1,100

/ BODY CONFIGURATION

ORDERING LETTER	CONFIGURATION
None (Blank)	Wafer style, inserted between mating flanges with spanning entire length
1	Lug design with threaded holes bolted from each end
2	Lug design with through-bolt holes to protect studs
3	Double flanged design with valve flanges bolted to individual like flanges

/ End Connection

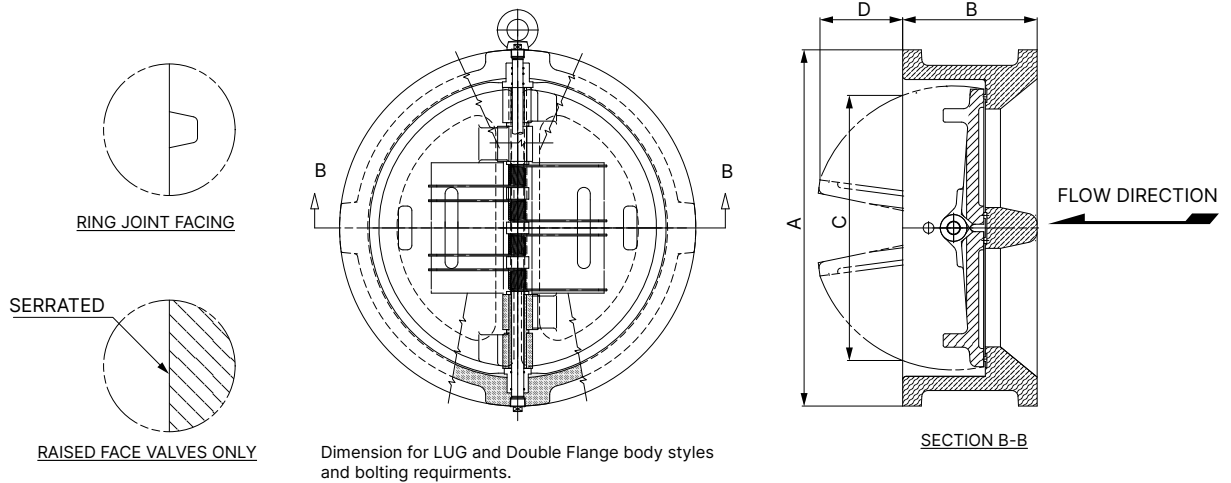
END CONNECTION	
ORDERING LETTER	CONNECTIONS
P	Plain Face
R	Serrated Raised Face
RJ	Ring Joint

- **EXAMPLE:** Specifications Call for 4" (100mm), Wafer Style – Retainerless; ASME 150 Champion Wafer Check; 316 Stainless Steel Body;
- **316 SS Discs;** Metal Seat & Inconel X-750 Spring; Raised Face End Connection; Through --- Bolt Lug Body

/ 4RSV15-SSPX-R2

SIZE	STYLE	PRESSURE CLASS	BODY	DISC	SEAT	SPRING	END CONNECTION	BODY CONFIGURATION	MODIFICATION NUMBER
4"	RSV	15	S	S	P	X	R	2	Assigned by Factory

Model SCV & RSV Installation Dimensions



ASME CLASS 150

Size		A		B		C		D		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kg
2"	50	4 1/8	105	2 3/8	60	1 15/16	49	-	-	6	3
2 1/2"	65	4 7/8	124	2 5/8	67	2 11/32	60	-	-	10	5
3"	80	5 3/8	137	2 7/8	73	2 29/32	74	1/4	6	13	6
4"	100	6 7/8	175	2 7/8	73	3 27/32	97	5/8	16	17	8
5"	125	7 3/4	197	3 3/8	86	4 13/16	122	7/8	22	27	12
6"	150	8 3/4	222	3 7/8	98	5 3/4	146	1 3/8	35	35	16
8"	200	11	279	5	127	7 5/8	194	2 1/8	54	70	32
10"	250	13 3/8	340	5 3/4	146	9 9/16	243	2 3/4	70	106	48
12"	300	16 1/8	410	7 1/8	121	11 3/8	289	3 1/4	83	172	78
14"	350	17 3/4	451	7 1/4	184	12 1/2	318	3 1/4	83	200	91
16"	400	20 1/4	514	7 1/2	191	15	381	4 7/16	113	275	125
18"	450	21 5/8	549	8	203	16 7/8	429	5 3/8	137	315	143
20"	500	23 7/8	606	8 5/8	219	18 13/16	478	6 5/16	160	435	197
24"	600	28 1/4	718	8 3/4	222	22 5/8	575	8 1/4	210	620	281
26"	650	30 1/2	775	14	356	24 1/4	616	8	203	1,555	705
30"	750	34 3/4	883	12	305	29 1/4	743	9	229	1,230	558
36"	900	41 1/4	1,048	14 1/2	368	35	889	12	303	2,017	915
42"	1,050	48	1,219	17	432	41	1,041	15	381	2,800	1,270
48"	1,200	54 1/2	1,384	20 5/8	524	47	1,194	16 3/4	425	3,920	1,778

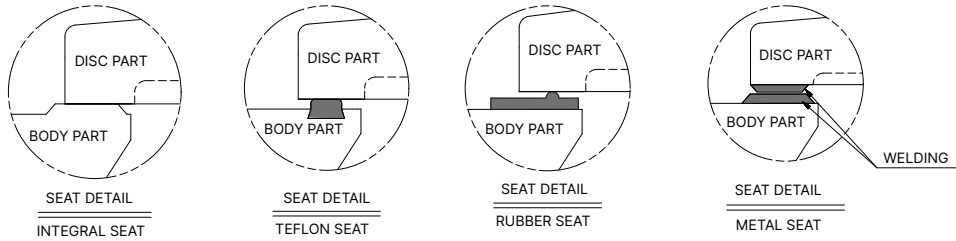
ASME CLASS 300

Size		A		B		C		D		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kg
2"	50	4 3/8	111	2 3/8	60	1 15/16	49	-	-	7	3
2 1/2"	65	5 1/8	130	2 5/8	67	2 11/32	60	-	-	11	5
3"	80	5 7/8	149	2 7/8	73	2 29/32	74	1/4	6	15	7
4"	100	7 1/8	181	2 7/8	73	3 13/16	96	5/8	16	18	8
5"	125	8 1/2	216	3 3/8	86	4 13/16	122	7/8	22	35	16
6"	150	9 7/8	251	3 7/8	98	5 3/4	146	1 3/8	35	45	20
8"	200	12 1/8	308	5	127	7 5/8	194	2 1/8	54	82	37
10"	250	14 1/4	362	5 3/4	146	9 9/16	243	2 3/4	70	125	57
12"	300	16 5/8	422	7 1/8	181	11 3/8	289	3 1/4	83	200	91
14"	350	19 1/8	486	8 3/4	222	12 1/2	318	3 3/16	81	325	147
16"	400	21 1/4	540	9 1/8	232	14 5/16	364	4 1/8	105	415	188
18"	450	23 1/2	597	10 3/8	264	16 7/8	429	4 13/16	122	555	252
20"	500	25 3/4	654	11 1/2	292	17 15/16	456	5 5/8	143	725	329
24"	600	30 1/2	775	12 1/2	318	21 9/16	548	7 1/16	179	1,100	499
26"	650	32 7/8	835	14	356	24 3/8	619	8	203	1,605	728
30"	750	37 1/2	953	14 1/2	368	28 3/4	730	9 1/16	230	2,050	930
36"	900	44	1,118	19	483	35	889	11 3/16	284	3,573	1,621
42"	1,050	50 3/4	1,289	22 3/8	568	41	1,041	14 3/4	375	5,780	2,622
48"	1,200	58 3/4	1,492	24 3/4	629	47	1,194	16 1/2	419	6,572	2,981

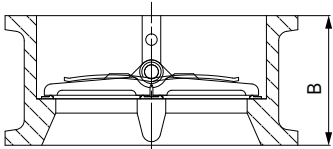
ASME CLASS 600

Size		A		B		C		D		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kg
2"	50	4 3/8	111	2 3/8	60	1 15/16	49	-	-	7	3
2 1/2"	65	5 1/8	130	2 5/8	67	2 11/32	60	1/8	3	11	5
3"	80	5 7/8	149	2 7/8	73	2 29/32	74	1/4	6	15	7
4"	100	7 5/8	194	3 1/8	79	3 13/16	96	7/8	22	26	12
5"	125	9 1/2	241	4 1/8	105	4 13/16	122	1	25	50	22.7
6"	150	10 1/2	267	5 3/8	137	5 3/4	146	1 7/16	36	80	36
8"	200	12 5/8	321	6 1/2	165	7 5/8	194	2	51	135	61

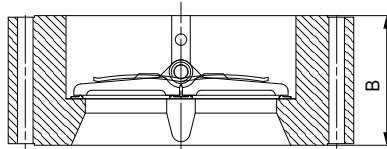
Size		A		B		C		D		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kg
10"	250	15 3/4	400	8 3/8	213	9 9/16	243	2 9/32	58	238	108
12"	300	18	457	9	229	11 3/8	289	3 15/32	88	333	151
14"	350	19 3/8	492	10 3/4	273	12 1/2	318	2 3/4	70	455	206
16"	400	22 1/4	565	12	305	14 5/16	364	4 5/16	110	640	290
18"	450	24 1/8	613	14 1/4	362	16 1/8	410	3 11/16	94	890	404
20"	500	26 7/8	683	14 1/2	368	17 15/16	456	5 5/16	135	1,120	508
24"	600	31 1/8	791	17 1/4	438	21 9/16	548	6 9/16	167	2,040	925



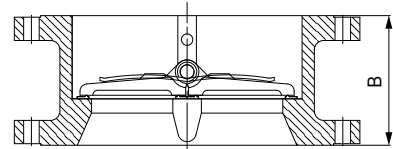
/ Wafer



/ Lug



/ Flange



/ ASME CLASS 900

Size		A		B		C		D		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kg
2"	50	5 5/8	143	2 3/4	70	1 11/16	43	-	-	14	6
2 1/2"	65	6 1/2	165	3 1/4	83	2 1/8	45	1/16	2	16	7
3"	80	6 7/8	168	3 1/4	83	2 5/8	67	5/16	8	24	11
4"	100	8 1/4	206	4	102	3 7/16	87	9/16	14	40	18
5"	125	10	248	-	-	4 5/16	110	-	-	-	-
6"	150	11 1/8	289	6 1/4	159	5 3/16	132	1 1/16	27	115	52
8"	200	13 7/8	359	8 1/8	206	6 13/16	173	1 13/32	36	229	104
10"	250	17 1/8	435	9 1/2	241	8 1/2	216	1 13/16	46	388	176
12"	300	19 5/8	498	11 1/2	292	10 1/8	257	2 5/16	59	540	245
14"	350	20 1/2	521	14	356	11 1/2	292	2	51	926	420
16"	400	22 3/4	575	15 1/8	384	12 13/16	325	2 5/8	67	1,152	523
18"	450	25 1/8	638	17 3/4	451	14 7/16	367	2 9/16	65	1,318	598
20"	500	27 1/2	699	17 3/4	451	17 15/16	456	5 5/16	135	1,426	647
24"	600	33	838	19 1/2	495	21 1/2	546	5 5/8	143	2,729	1,238

/ ASME CLASS 1500

Size		A		B		C		D		Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kg
2"	50	5 5/8	143	2 3/4	70	1 11/16	43	-	-	14	6
2 1/2"	65	6 1/2	165	3 1/4	83	2 1/8	54	1/16	2	16	7
3"	80	6 7/8	175	3 1/4	83	2 5/8	67	5/16	8	25	11
4"	100	8 1/4	210	4	102	3 7/16	87	9/16	14	43	20
5"	125	10	254	-	-	4 5/16	110	-	-	-	-
6"	150	11 1/8	283	6 1/4	159	5 3/16	132	1 1/16	27	110	50
8"	200	13 7/8	352	8 1/8	206	6 13/16	173	1 13/32	36	219	99
10"	250	17 1/8	435	9 3/4	248	8 1/2	216	1 11/16	43	397	180
12"	300	20 1/2	521	12	305	10 1/8	257	2 1/4	57	725	329
14"	350	22 3/4	578	14	356	11 1/2	292	2	51	948	430
16"	400	25 1/4	641	15 1/8	384	12 13/16	325	2 5/8	67	1,380	627
18"	450	27 3/4	705	18 7/16	468	13 3/4	349	2 11/16	68	1,900	863

• Approximate weights and dimensions—Apply for certified drawings. Dimensions available with DIN, JIS, AS and ISO.

TECHNICAL DATA

PRESSURE DROP CALCULATIONS FOR GAS

Pressure drop for gas media across SEJIN FS Valves Wafer Check (in horizontal installation) can be determined using the following equation and Cv and Cracking Pressure shown for each valve size. Additional equations may be necessary in order to calculate the pressure drop

AMERICAN STANDARD (Horizontal Installation)

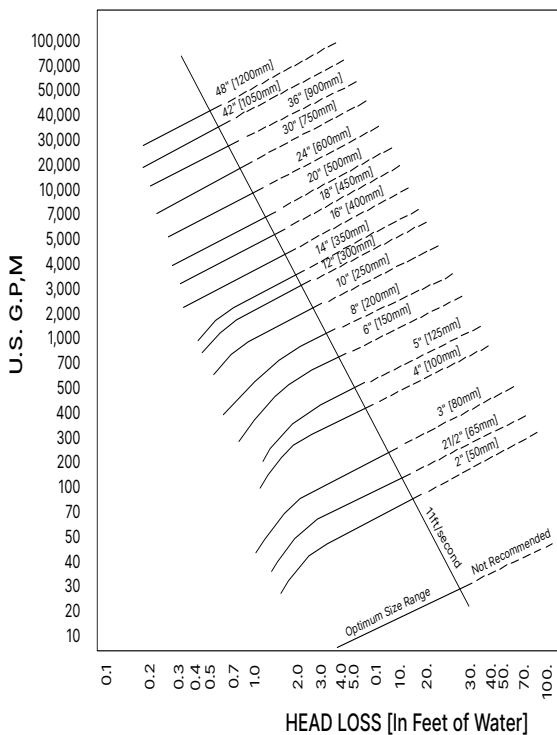
$$\Delta P = \frac{GT}{P} \left(\frac{Q}{1360Cv} \right)^2 + Pc$$

- Cv** = Flow Coefficient
G = Specific Gravity of Gas
P = Inlet Pressure, in pisa (psig + 14.7)
ΔP = Pressure Drop Across Valve, in psi
- Pc** = Cracking Pressure
Q = Gas Flow Rate, in SCFH
T = Temperature, Absolute (°F + 460)

$$SCFH = ACFH \left(\frac{P}{14.7} \right) \left(\frac{520}{T} \right)$$

- ACFH** = Actual Cubic Feet per Hour
SCFH = Standard Cubic Feet per Hour

Pressure Drop Chart



This chart is based on standard conditions. Consult factory for pressure drop of sizes larger than 48 inches.

Cv & CRACKING PRESSURE

Size	Cv	Pressure	Size	Cv	Pressure
2"	48	0.220	16"	7,250	0.210
2.5"	77	0.189	18"	10,000	0.138
3"	135	0.198	20"	12,400	0.128
4"	270	0.184	24"	20,400	0.098
6"	720	0.218	30"	38,000	0.099
8"	1,400	0.162	36"	60,000	0.095
10"	2,600	0.230	42"	89,000	0.090
12"	3,850	0.241	48"	124,000	0.088
14"	5,000	0.230			

- Application specific spring torques are available.

AMERICAN STANDARD (Horizontal Installation)

Recommends placement of check valves a distance equal to 5 pipe diameters from any turbulence producing device such as elbows, pumps, etc.

RECOMMENDED FLOW RATE RANGES

Horizontal Installation

Material Selection Guide

Dual Plate Check Valve Engineerings

Media	Flow Rate
Liquid	3 to 11 feet/second
	0.91 to 3.35 m/second
Gas	20 to 250 feet/second
	6.1 to 76.2 m/second

/ A-Recommended, B-May Be Acceptable (Testing Recommended), N-Not Recommended

CORROSIVE MEDIA	BODY/DISC MATERIALS			SEAT MATERIALS			CORROSIVE MEDIA	BODY/DISC MATERIALS			SEAT MATERIALS		
	AB	CS	316	EPDM	BUNA-N	VITON		AB	CS	316	EPDM	BUNA-N	VITON
Acetaldehyde	A	B	A	A	N	N	Lactic Acid	N		A	70	70	A
Acetone	A	A	A	B	N	N	Lime	A		A	A	B	A
Acetylene	N	A	A	A		A	Liquefied Petroleum Gas	A	A	A	N	A	A
Air	A	A	A	A	A	A	Mercuric Chloride	B	N	B	A	A	A
Aluminum Acetate	A	A	A	A	B	N	Mercury	N	A	A	A	A	A
Aluminum Nitrate	N	N	A	A	A	A	Methane	A	A	A	N	A	A
Amino Acids	N		A	N	N	A	Methyl Alcohol	A	A	A	A	B	N
Ammonia Gas		A	A	B	70	N	Methyl Acetate		B	A	B	N	N
Ammonium Bicarbonate		B	A	A	N	N	Methyl Chloride	A	A	A	N	N	A
Ammonium Phosphate		N	A	A	A	A	Naphtha	A	A	A	N	N	A
Arsenic Acid	N	N	A	A	A	A	Natural Gas	A	A	A	N	A	A
Beer-Breweries	N	N	A	A	A	A	Nitrogen-Gas	A	A	A	A	A	A
Beet Sugar Liquors	A	N	A	A	A	A	Nitrous Oxide	B	B	A		B	
Benzene	A	A	A	N	N	70	Oil-Crude (sweet)	A	A	A	N	A	A
Brine	B	N	A	S	A	A	Oil-Crude (Sour)	A	A	A	N	B	A
Bromine-Anhydrous	N	N	N	N	N	A	Oil- Vegetable	B	N	A	B	A	A
Bromine- Wet	N	N	N	N	N	A	Oleic Acid		B	A	N	N	B
Butane	A	A	A	N	A	A	Olive Oil	B	B	A	A	A	A
Butanoic Acid			A				Oxalic Acid			A	A	B	A
Butyl Alcohol	A	A	A	B	A	A	Oxygen-Gas	A	A	A	A	B	A
Butylene (Gas)	A	A	A	N	N	A	Palm Oil		N	A		A	A
Calcium Chlorate	N	A	A	A	A	A	Paint-Thinner/Remover	A	A	A	N	N	A
Calcium Hydroxide	B	B	A	A	A	A	Phenol	B	B	A	B	N	A
Carbonated Water	N	B	A	A	A	A	Plating Solutions	N	A	NA	A	N	A
Carbon Monoxide	A	A	A	A	A	B	Potassium Acetate		N	A	A	B	N
Carbonic Acid	N	B	A	A	A	A	Potassium Bisulfate			A			
Caster Oil	A	A	A	B	A	A	Potassium Chlorate		N	A	A	B	A
Chlorine (Wet or Dry)	N	70	N	N	N	A	Potassium Cyanide	A	A	A	A	A	A
Cider	A	N	A	A	B	A	Potassium Sulfide	N	A	A	B	N	A
Citric Acid	B	N	A	A	A	A	Potassium Sulfate	A	A	A	A	A	A
Citric Juices	B	N	A	A	A	A	Propylene Glycol		N	A	A	A	A
Corn Oil	B	A	A	N	A	A	Propylene Oxide	N		A	A	B	
Diacetone Alcohol	A	A	A	A	N	N	Pyridene	B	A	A	B	N	N
Dibutyl Phthalate	A	A	A	B	N	N	Shellac	B	A	A	A	A	
Dichloroethane			A	N	N	A	Silver Nitrate	N	N	A	A	N	A
Diesel Fuel		A	A	N	A	A	Sodium Bicarbonate	A	A	A	A	A	A
Dieldamine	A	A	A	N	B	A	Sodium Carbonate	N	B	A	A	A	A
Diphenyl Oxide	N	A	A	N	N	A	Sodium Chlorate	N		A	A	B	A
Dowthem	B	A	A	N	N	A	Sodium Chloride	N	B	B	A	A	A
Ethanol	A	A	A	A	A	N	Sodium Nitrite	B	A	A	A	A	
Ether	A	A	A	N	N	N	Sodium Sulfate	A	B	A	A	A	A
Ethyl Acetate	B	A	A	B	N	N	Sodium Sulfide	B	A	A	A	A	A
Ethyl Chloride	B	200	A	A	A	A	Sodium Thiosulfate		B	A	A	B	A
Ethylene Glycol	A	A	A	A	A	A	Soybean Oil	B	B	A	N	A	A
Ethylene Oxide	N	A	A	N	N	N	Steam and Hot Water	A	B	A	A	N	
Fatty Acids	N	N	A	N	A	A	Sulfur	N	B	A	A	N	N
Ferrous Chloride	N	N	N	A	A	A	Sulfuric Acid	N	N	B	A	N	A
Fish Oils	B	B	A		A		Sulfurous Acid	N	N	B	N	N	A
Gas-Nature	A	A	A	N	A	A	Tararic Arid		B	A	N	A	A
Gasoline-Ethyl	A	A	A	N	N	A	Terachloroethane	B	75	A	B	N	A
Gasoline-Regular	A	A	A	N	A	A	Turpentine	A	A	A	N	A	A
Glucose	A	A	A	A	A	A	Varnish	A	A	A	N	N	A
Glycerine	A	A	A	A	A	A	Vinegar	N	N	A	N	B	A
Helium Gas	A	A	A	A	A	A	Water, Carbonated	N	B	A	A	A	A
Hydraulic Fluid (Pydraul)	A	A	A	N	N	A	Water, Chilled	A	B	A	A	A	A
Hydrocarbons (Aromatic)	N	A	A	N	N	A	Water, Distilled	N	B	A	A	A	A
Hydrogen Peroxide	N	N	A	A	N	A	Water,Salt,Sea	A	N	A	A	A	B
Hydrogen Sulfide	N	B	A	A	70	N	Wine	B	N	A	A	A	A
Iodine	N	N	N	N	N	A	Zinc Bromide	N		A	A	A	
Isopropyl Acetate			B	B	N	N	Zinc Cyanide	N	N	A		A	
Kerosene	A	A	A	N	A	A	Zinc Sulfate	N	N	A	A	A	A



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