PRINCE

Prince Wafer Check Technical Data Sizes 2" thru 36"

Features and Benefits

- Minimizes piping support with the compact wafer style body. The Prince wafer check valves are two to three times lighter than traditional full-bodied check valves.
- Application specific problems are solved with the many Prince options.
 Options include silicone-free cleaning, oxygen-cleaning, vertical service valves, left hand valves, levers, weights and cushions.
- For media with fibrous matter in it, the external spring protects the fiber from wrapping around the spring and preventing valve closure.
- Maintenance is minimal with the field replaceable O-ring seat available in all styles and sizes.





Applications

The Prince Wafer Check Valve is used to stop flow reversal in chemical refineries, ammonia compressors, waste water treatment plants, HVAC systems and most other industrial applications.

Technical Data

Size Range : 2" thru 36"

Pressure Rating : 150 - 740 psi

ANSI Flange Rating : 125 - 300



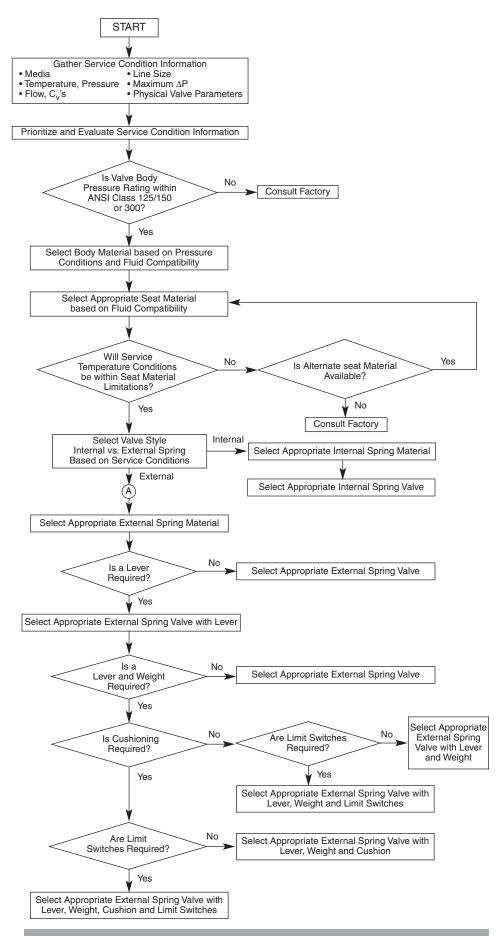
Produ	ıct Sum	mary								
Series	Rating	ANSI Flange (psi)	Pressu Rating (in.)	Size	Body Disc/Arm		ushing/ earing Seat	Spring Shaft S	Plug or C	Outside Hardware
Figure 80	9 300	740	2"-12"	Carbon Stee	al 316 SS	N/A	TFE	316 SS (Std.) Inconel® 750	Carbon Ste	eel N/A
Figure 81	l 0 125	150	2"-12"	Cast Iron	316 SS	N/A	BUNA-N (Std.) EPDM Fluoroelastomer TFE Metal-to-metal	316 SS (Std.) 2-5 inch 17-7 PH SS (Std.) 6-12 inch Inconel® 750	Carbon Ste	eel N/A
	150	285	2"-12"	Carbon Stee 316 SS	el 316 SS	N/A	BUNA-N (Std.) EPDM Fluoroelastomer TFE Metal-to-metal	316 SS (Std.) 2-5 inch	Carbon Ste	eel N/A
Figure 81	l 3 125	150	2"-12"	Cast Iron	316 SS	Bronze	BUNA-N (Std.) EPDM Fluoroelastomer TFE Metal-to-metal	316 SS (Std.) Inconel® 750	BUNA-N (S EPDM Fluoroelasto	Spring (Std.)
	150	285	2"-12"	Carbon Stee 316 SS	el 316 SS	Bronze 316 SS	BUNA-N (Std.) EPDM Fluoroelastomer TFE Metal-to-metal	316 SS (Std.) Inconel® 750	BUNA-N (S EPDM Fluoroelasto	Spring (Std.)
Figure 81	l 5 125	150	12"-36"	Cast Iron	316 SS	Bronze	BUNA-N (Std.) EPDM Fluoroelastomer Ni-AB 316 SS	Carbon St. (Std.) 316 SS	N/A	 Adjustable Spring Lever Adjustable Wt. (Std. Hydraulic Cushion Limit Switch
	150	230	12"-20"	Carbon Stee 316 SS	el 316 SS	Bronze	BUNA-N (Std.) EPDM Fluoroelastomer Ni-AB 316 SS	Carbon St. (Std.) 316 SS	N/A	 Adjustable Spring Lever Adjustable Wt. (Std. Hydraulic Cushion Limit Switch
	150	150	24"-36"	Carbon Stee 316 SS	el 316 SS	Bronze	BUNA-N (Std.) EPDM Fluoroelastomer Ni-AB	Carbon St. (Std.) 316 SS	N/A	Adjustable SpringLeverAdjustable Wt. (Std.Hydraulic CushionLimit Switch

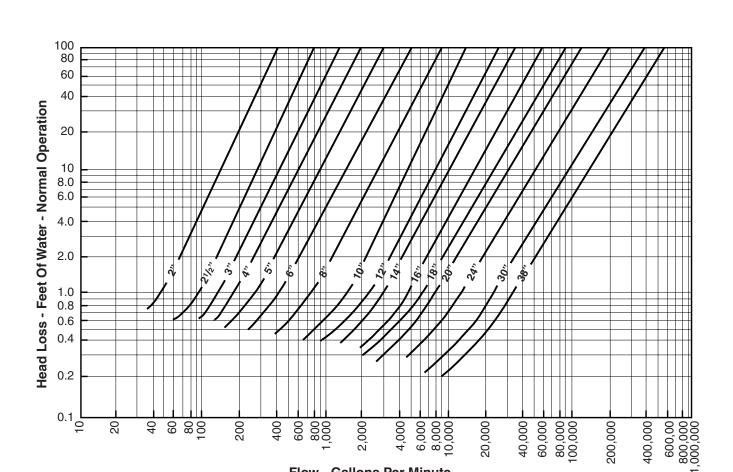
Notes

^{1.} Left hand versions available on all external spring models for horizontal service.

^{2.} Not for use in pulsating or reciprocating services.

Check Valve Selection Diagram





Flow - Gallons Per Minute

- 1. Curves are for water at 60°F.
- 2. Feet of water $x \cdot 0.4335 = psi$
- Use curves for estimating purposes only.

 Performance is based upon ideal inlet and outlet conditions with no springs or weights.

Disc Cracking Pressure

All valves equal approximately 0.5 psi without lever/weight or cushion. For valves with lever/weight or cushion, contact factory.

Typical I	Data -	- Air F	low a	nt 60° –	S.C.F	.М.										
Pressure Drop psi	2"	2 ¹ /2"	" 3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"
0.1	85	235	275	360	525	855	1,555	2,875	4,710	5,200	8,565	11,700	16,000	30,600	47,750	77,100
0.2	120	330	390	510	745	1,210	2,200	4,050	6,650	7,350	12,110	16,500	22,550	43,500	67,500	109,000
Flow Co	efficie	ent - C	v													
Size	2"	2 ¹ / ₂ '	' 3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"
C _v	70	190	225	295	430	700	1,270	2,350	3,850	4,250	7,000	9,550	13,000	25,000	39,000	63,000

For Liquids

Pressure Drop = S.G. $\left(\frac{Q_L}{C_V}\right)^2$

Where:

 $\begin{aligned} & \text{QL = Flow in gallons per minute} \\ & \text{S.G. = Specific Gravity of Liquid} \\ & \text{C}_{\text{V}} = \text{Valve flow coefficient from table} \end{aligned}$

Note: 30 fps is the nominal maximum allowable velocity for liquids.

For Gases

Pressure Drop = S.G. $\frac{QV^2 GT}{512 P1 C_{v^2}}$

Where:

QV = Flow in standard cubic feet per minute

P1 = Upstream pressure absolute (psi + 14.7)

G = Specific Gravity of Gas T = Temperature (Rankine)

(°F + 460°)

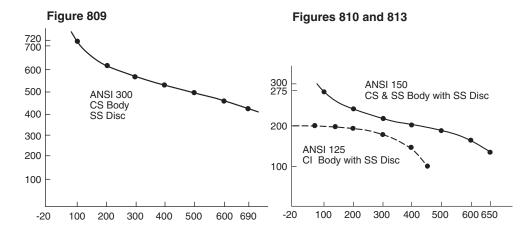
C_v = Valve flow coefficient from table

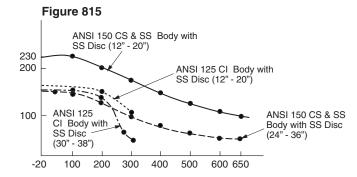
Note: 120 fps is the nominal maximum velocity for gases.

Note

Where valve construction consists of more than one material, the effective service range of the valve is the same as that of the most restrictive material in the valve.

Size - Temperature - Pressure Ratings





Seat	Temperature Ratings
NBR	0 – 212°F
EPDM	-40 – 250°F
FKM	-40 – 400°F
TFE	-40 – 300°F
Metal	Refer to Temperature/Pressure Rating Charts

Materials of Const	truction – Metals		
Part	Material Code	Common Designation	Specification
Body	102 109-1 134	Carbon Steel 316 SS Cast Iron	ASTM A-216 WCB ASTM A351 Grade CF8M ASTM A-126 Class B
Disc	109-1	316 SS	ASTM A351 Grade CF8M
Arm	109-1	316 SS	ASTM A351 Grade CF8M
Disc Arm	109-1	316 SS	ASTM A351 Grade CF8M
Stem	109-2 164	316 SS 18-8 SS	ASTM A-276 Gr. 316 ASTM A-276 Gr. 304
Spring	109-3	316 SS	ASTM A-313 Type 316
	120	Inconel® X750	AMS 5698/5699
	201	17-7 PH SS	AMS 5673 Cond. C (Age Hardened)
Bushing	109-2 149 936	316 SS Sintered Bronze Bronze	ASTM A-276 Gr. 316 SAE 841 ASTM B505 Alloy C93200
Seat Ring	109-2	316 SS	ASTM A-276 Gr. 316
	162	Nickel Aluminum Bronze	ASTM B148 Alloy C955

Materials of	Construction – Seals	5	
Туре	Material Code	Common Designation	Temperature Rating
Elastomer	230 414 440	BUNA-N EPDM Fluoroelastomer	0° to 212°F -40° to 250°F -40° to 400°F
Polymer	500	TFE	-40° to 300°F
Metal	109	316 SS	Refer to the applicable disc temperature rating on Page 5.

Note

Specifications listed are not all-inclusive. Other specifications may apply. This listing is intended for use as a guideline only. User should determine those materials best suited for their particular application. Assistance is available from Tyco Valves and Controls.

Flange and Bolting Data - Figure 809

	ANSI CL	ASS 300	1
Size (in.)	Diameter of Bolt Circle	No. of Bolts	Bolt Thread
2	5	8	⁵ /8 - 11
3	6 ⁵ /8	8	³ /4 - 10
4	7 ⁷ /8	8	³ /4 - 10
5	91/4	8	3/4 - 10
6	10 ⁵ /8	12	³ /4 - 10
8	13	12	⁷ / ₈ - 9
10	15	16	1 - 8
12	18	16	11/8 - 7

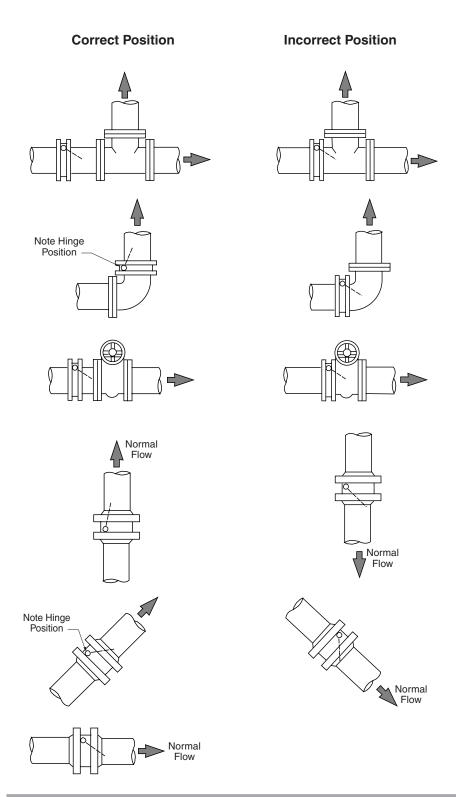
Flange and Bolting Data – Figures 810, 813, and 815

ANSI CLASS 125/150

	ANSI CLASS	123/130	
Size (in.)	Diameter of Bolt Circle	No. of Bolts	Bolt Thread
2	43/4	4	⁵ /8 - 11
21/2	51/2	4	⁵ /8 - 11
3	6	4	⁵ /8 - 11
4	71/2	8	5/8 - 11
5	81/2	8	3/4 - 10
6	91/2	8	3/4 - 10
8	113/4	8	3/4 - 10
10	14 ¹ / ₄	12	⁷ /8 - 9
12	17	12	7/8 - 9
14	18 ³ / ₄	12	1 - 8
16	21 ¹ / ₄	16	1 - 8
18	223/4	16	13/4 - 7
20	25	20	13/4 - 7
24	291/2	20	11/4 - 7
301	36	28	11/4 - 7
361	423/4	32	11/2 - 6

Note

1. ANSI Class 125 Only



Recommendations for Installation Position

- 1. Position the check valve to promote smooth flow.
- 2. Allow clearance for disc movement.
- 3. Install the valve in horizontal or upward flow for proper valve closure.

Caution: Do not use with reciprocating compressors, or in other pulsating services.

Figure 809 - Sizes 3" thru 6"

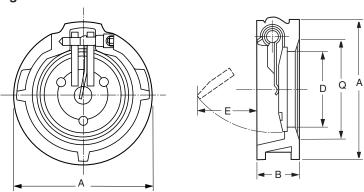


Figure	809 Valve D	Dimension	s (Inches) \$	Sizes 3" th	ru 6"	
Size	Α	В	Q ¹	D	Е	Wt. (lbs.)
3	57/8	2	31/8	21/16	2	7
4	71/8	21/4	3 ¹⁵ / ₁₆	31/32	2	11
5	81/2	21/2	5 ⁵ /32	37/8	3	15
6	97/8	23/4	61/16	43/4	313/16	22

The Q dimension is the minimum pipe or companion flange inside diameter for proper valve operation.

Figure 810 - Sizes 2" thru 12"

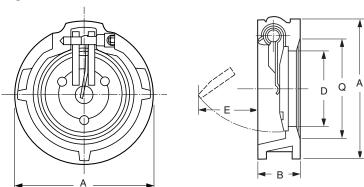
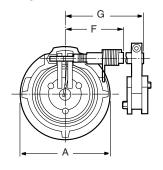
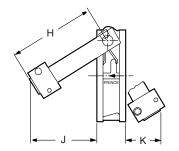


Figure 8	310 Valve I	Dimensio	ns (Inches	s) Sizes 2	" thru 12		
Size	Α	В	Q1	D	E	Wt. (lbs.)	
2	41/8	13/4	21/16	1 17/32	13/16	4	
21/2	47/8	17/8	215/32	13/4	11/16	5	
3	53/8	2	31/16	21/16	1 5/8	7	
4	67/8	21/4	41/32	31/32	21/4	11	
5	73/4	21/2	51/32	37/8	3	15	
6	83/4	23/4	61/16	43/4	33/4	22	
8	11	215/16	731/32	67/16	419/32	30	
10	13 ³ /8	31/8	10	75/8	6 ⁷ /16	58	
12	16 ¹ /8	31/2	12	91/2	81/8	85	

The Q dimension is the minimum pipe or companion flange inside diameter for proper valve operation.

Figure 813 (with Optional Lever and Weight) Sizes 2" thru 12"





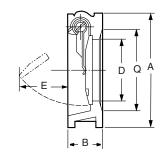
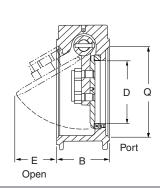
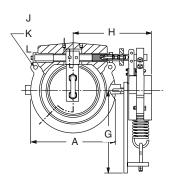


Figure	813 Valv	e Dimens	ions (Inch	es) Sizes	2" thru 1:	2"					
Size	Α	В	Q^1	D	Е	F	G	Н	J	K	Wt. (lbs.)
2	41/8	1 3/4	21/16	1 17/32	13/16	31/16	423/32	61/2	55/32	2 ²¹ / ₃₂	5
21/2	47/8	17/8	215/32	117/32	1 1/16	35/16	57/32	71/2	57/8	33/32	6
3	53/8	2	31/16	21/16	1 5/8	31/2	511/16	81/2	613/16	3 ⁵ /8	9
4	67/8	21/4	41/32	31/32	21/4	31/4	613/32	81/2	63/4	313/32	13
5	73/4	21/2	51/32	37/8	3	515/32	77/32	83/8	619/32	31/2	19
6	83/4	23/4	61/16	43/4	325/32	5 ²⁹ / ₃₂	73/4	83/8	621/32	31/4	24
8	11	215/16	731/32	6 ⁷ /16	45/8	631/32	95/32	93/8	77/16	35/8	32
10	13 ³ /8	31/8	10	7 ⁵ /8	6 ⁷ /16	5 ⁵ /16	1013/32	13 ³ /8	81/16	43/16	60
12	16 ¹ / ₈	31/2	12	91/2	81/8	61/4	127/32	12	93/8	411/16	87

Note

Figure 815 (with Optional Cushion) Sizes 12" thru 36"





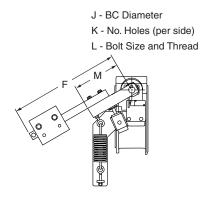


Figure	815 Val	lve Dime	ensions	(Inches)	Sizes 1	2" thr	u 36"						
Size	Α	В	\mathbf{Q}^{1}	D	E	F	G	Н	J	K	L	M	Wt. (lbs.)
12	16	43/4	12	91/2	77/32	18	71/2	153/4	17	4	7/8 - 9	45/8	212
14	175/8	73/4	131/4	10 ³ / ₁₆	63/4	30	207/32	171/4	183/4	4	1 - 8	123/4	350
16	201/8	83/4	151/4	11 3/16	731/32	30	195/32	185/8	211/4	6	1 - 8	123/4	410
18	211/2	83/4	171/4	1211/16	93/8	30	18 ³ / ₁₆	19 ³ /8	223/4	4	11/8 - 7	123/4	450
20	235/8	93/4	191/4	15	11 ⁷ / ₁₆	30	171/4	201/2	25	6	11/8 - 7	14	775
24	28	93/4	231/4	181/2	15	30	16	223/4	291/2	6	11/4 - 7	14	925
30	341/2	93/4	30	231/2	197/32	30	26	263/4	36	8	11/4 - 7	14	1225
36	411/8	141/2	35	28	19 7/16	40	237/16	3815/16	423/4	8	11/2 - 6	201/8	2100

Note

The Q dimension is the minimum pipe or companion flange inside diameter for proper valve operation.

The Q dimension is the minimum pipe or companion flange inside diameter for proper valve operation.

Chemical – Fractionating Column

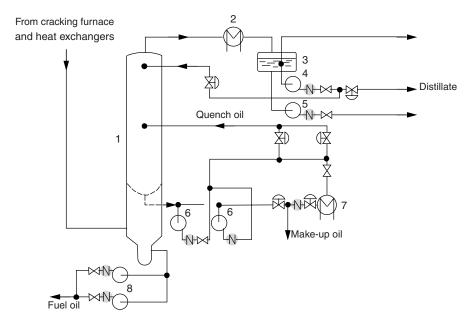


Diagram Key

- 1. Fractionating column
- 2. Coolers
- 3. Distillate drum
- 4. Distillate reflux and product pumps
- 5. Sour water pumps
- 6. Quench oil pumps
- 7. Quench oil rundown cooler
- 8. Fuel oil stripping pumps

Legend

= Prince Check Valve

✓ = Block Valve

= Control Valve

Petrochemical – Compressor and Light End Fractionating Section

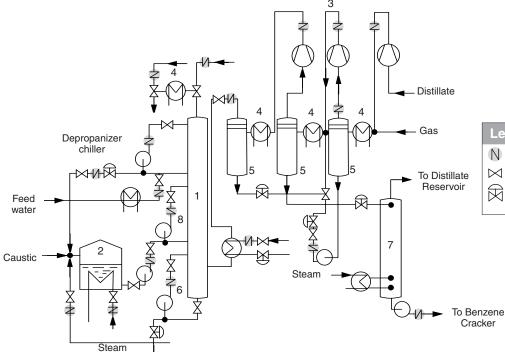


Diagram Key

- 1. Caustic scrubber
- 2. Caustic surge tank
- 3. Three-stage gas compressor
- 4. Aftercollers
- 5. Separators
- 6. Caustic pumps
- 7. Distillate stripper

Legend

N = Prince Check Valve

→ Block Valve

😾 = Control Valve

Diagram Key

- 1. Continuous digester
- 2. Heat exchanger calorisator
- 3. Heat exchanger
- 4. Condensate vessel
- 5. Flash tanks

Legend



= Prince Check Valve

= Block Valve

= Control Valve

Pulp and Paper – Continuous Digester

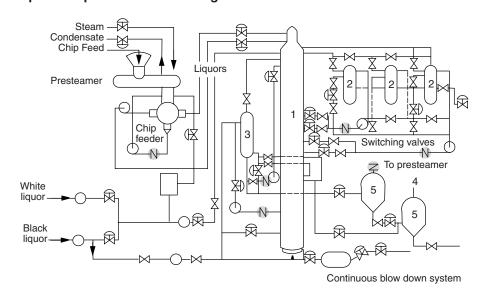


Diagram Key

- 1. Boilers
- 2. Pumps
- 3. Expansion tank
- 4. Fan coil units

Legend

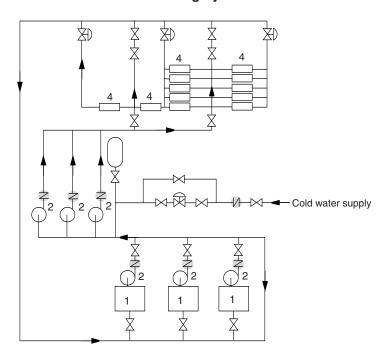


N = Prince Check Valve

= Block Valve

= Control Valve

HVAC - Three Boiler Water Heating System



laterial	Cast Iron	Carbon Steel	Stainless Steel	BUNA-N	EPDM	Fluoroelastomer	TFE
cetaldehyde	Α	Α	Α	С	С	В	Α
cetic Acid, Air Free	С	С	В	С	A	С	Α
cetone	Α	Α	Α	С	С	С	Α
cetylene	Α	Α	А	В	Α	A	Α
Icohols	Α	Α	Α	Α	Α	В	Α
luminum Sulfate	С	С	A	A	Α	A	Α
mmonia	A	Α	Α	В	В	С	Α
mmonium Nitrate	С	A	A	В	A	A	Α
mmonium Sulfate	С	С	Α	A	Α	A	Α
sphalt	A	A	A	С	С	В	Α
eer	В	В	Α	A	A	A	В
enzene	A	A	A	C	C	A	A
enzoic Acid	C	C	A	С	C	A	A
oric Acid	С	C	A	A	A	A	A
utane	A	A	A	В	C	В	A
Calcium Chloride	В	В	В	A	A	A	A
arbolic Acid	В	В	А	C	В	A	A
Carbon Dioxide, Dry	A	А	A	В	А	A	A
Carbon Dioxide, Dry	В	В	В	С	C	A	A
Sitric Acid	С	D	A	A	A	A	A
oke Oven Gas	A C	A C	A B	В	C	A	A
opper Sulfate				A	A	A	A
reosote	A	A	A	С	С	A	A
ther	В	В	A	С	С	В	A
thyl Chloride	С	С	A	В	A	A	A
thylene	Α	Α	Α	В	С	В	В
thylene Glycol	A	A	Α	A	A	Α	В
atty Acids	С	С	Α	В	С	А	Α
erric Chloride	С	С	С	С	В	Α	Α
errous Chloride	С	С	С	С	В	D	Α
luorocarbon Oil	С	С	Α	D	С	С	Α
ormic Acid	С	С	Α	С	С	С	Α
reon 11	С	С	Α	В	С	С	Α
reon 12	С	С	Α	Α	D	С	Α
reon 22	С	С	Α	С	С	С	Α
uel Oil	С	С	Α	Α	С	В	Α
uit Juices	С	В	Α	В	Α	Α	Α
asoline	В	А	Α	С	С	Α	Α
ucose	D	D	Α	Α	Α	Α	Α
lycols	Α	Α	Α	Α	Α	Α	Α
reen Liquor	С	С	Α	В	В	В	Α
elium	С	В	Α	Α	Α	В	Α
exane	Α	Α	Α	В	С	А	Α
ydrogen Gas	В	С	Α	Α	Α	В	Α
k	С	С	Α	В	В	Α	Α
opropyl Alcohol	A	A	Α	В	Α	А	Α
erosene	В	A	A	A	C	A	A
etones	A	A	A	C	C	C	Α
ead Acetate	С	C	В	A	A	A	A
agnesium Hydroxide	C	A	A	A	A	A	A
lash	С	C	A	В	A	A	A

Materials Selection	Cast	Carbon	Stainless				
Material	Iron	Steel	Steel	BUNA-N	EPDM	Fluoroelastomer	TFE
Mercury	С	А	Α	Α	С	D	Α
Methane (Gas)	D	В	Α	Α	С	D	Α
Mine Water (No Salts)	С	С	Α	Α	Α	U	D
Naptha	В	Α	Α	С	С	Α	Α
Natural Gas (No H2S)	В	Α	Α	Α	Α	Α	Α
Nitrogen Gas	Α	Α	Α	Α	Α	Α	Α
Oxygen Gas	Α	Α	Α	В	Α	А	Α
Ozone	С	В	Α	С	В	Α	Α
Paint Thinners	С	В	Α	С	С	А	Α
Pentane	Α	Α	Α	Α	С	В	Α
Petrolatum	Α	Α	Α	Α	С	D	Α
Phosphorous	С	С	Α	В	С	А	Α
Polystyrene Resins	С	С	Α	С	С	D	В
Potash	С	С	Α	В	Α	Α	Α
Potassium Nitrate	С	Α	Α	Α	Α	Α	Α
Propane (LPG)	В	В	Α	Α	С	D	Α
Pulp Stock	С	В	Α	Α	Α	А	Α
Sea Water	С	С	В	Α	Α	Α	В
Sewage	В	В	Α	Α	Α	В	Α
Sodium Acetate	С	В	Α	В	Α	А	Α
Sodium Chloride	С	С	В	Α	Α	А	Α
Sour Gas	С	В	Α	С	С	А	Α
Steam	С	В	Α	С	С	D	В
Toluene	Α	Α	Α	С	С	А	Α
Turpentine	С	В	Α	С	С	А	Α
Vinyl Acetate	С	Α	Α	С	D	С	В
Vinyl Chloride	С	С	Α	С	D	D	В
Water	В	В	Α	В	В	Α	Α
White Liquor	С	В	Α	В	В	А	Α
Xylene	С	С	Α	С	С	Α	Α
Zinc Chloride	С	С	Α	Α	Α	D	Α

Notes

This information should be used as a general guide only.

Many variables other than the chemical resistance will influence the rate of corrosion and materials of construction.

Legend

A = Can be or is successfully being used

B = Proceed with caution

C = Should not be used

D = Information lacking

Figure 809 (Internal Spring) Specifications

General

The check valve shall be a wafer style (flangeless) swing check design utilizing a torsional spring to assist in faster closure. The valve must be capable of gravity closure should the loss of spring tension occur when system back pressure is present. Valves with discs hinged in a line crossing the valve diameter, or with center posts, are unacceptable.

Body/Seat

The body shall be of the one-piece construction and shall possess a machined dovetail groove for a polymer seal. The seal shall not be vulcanized to facilitate seat retention, and shall be field replaceable. The seal shall provide positive shut-off at both low and high pressure.

Disc

The valve shall utilize a one-piece disc/arm assembly. The disc shall completely cover the seal when in the closed position to provide positive seal regardless of disc orientation.

Disc/Stem Connection

The stem shall possess a double "D" design that when mated to the corresponding disc/arm assembly bore provides positive connection.

The valve shall be F809 as manufactured by Tyco Valves & Controls.

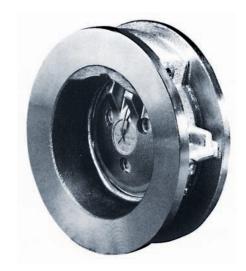


Figure 810 (Internal Spring) Specifications

General

The check valve shall be a wafer style (flangeless) swing check design utilizing a torsional spring to assist in faster closure. The valve must be capable of gravity closure should the loss of spring tension occur when system back pressure is present. Valves with discs hinged in a line crossing the valve diameter, or with center posts, are unacceptable.

Body/Seat

The body shall be of one-piece construction and shall (1) possess a machined dovetail groove for elastomer and polymer seals, or (2) possess an integral metal seat machined into the body when metal-to-metal seats are required. The resilient seals shall not be vulcanized to facilitate seat retention. The resilient seals shall be field replaceable. The resilient seals shall provide positive shut-off at both low and high pressure.

Disc

The valve shall utilize a one-piece disc/arm assembly. The disc shall completely cover the seal when in the closed position to provide positive seal regardless of disc orientation.

Disc/Stem Connection

The stem shall possess a double "D" design that when mated to the corresponding disc/arm assembly bore provided positive connection.

The valve shall be F810 as manufactured by Tyco Valves & Controls.



Sizes 2" thru 36"





General

The check valve shall be a wafer style (flangeless) swing check design utilizing a torsional spring to assist in faster closure. The valve must be capable of gravity closure should the loss of spring tension occur when system back pressure is present. Valves with discs hinged in a line crossing the valve diameter, or with center posts, are unacceptable. The valve shall have capability to add lever and/or weight for back-flush capabilities. The lever and/or weight assembly to be field installable. The external spring, lever and weight must be field adjustable.

Body/Seat

The body shall be of one-piece construction and shall (1) possess a machined dovetail groove for elastomer and polymer seals, or (2) possess an integral metal seat machined into the body when metal-to-metal seats are required. The resilient seals shall not be

vulcanized to facilitate seal retention. The resilient seals shall be field replaceable. The resilient seals shall provide positive shut-off at both low and high pressure.

Disc

The valve shall utilize a one-piece disc/arm assembly. The disc shall completely cover the seal when in the closed position to provide positive seal regardless of disc orientation.

Bushing and Disc/Stem Connection

The valve shall possess (2) stainless steel or bronze bushings to provide support and alignment to the disc/arm and stem. The stem shall possess a double "D" design that when mated to the corresponding disc/arm assembly bore provides positive connection.

The valve shall be F813 as manufactured by Tyco Valves & Controls.



Figure 815 (External Spring) Specifications

General

The check valve shall be a semi-lug, swing check design utilizing a tension spring to assist in faster closure. The valve must be capable of gravity closure should the loss of spring tension occur when system back pressure is present. The valve shall have the capability of adding an adjustable hydraulic cushion for those applications that require damping systems. The external spring (and the damping cushion) must be field adjustable.

Body/Seat

The body shall be of one-piece construction and shall (1) possess a machined dovetail groove for elastomer and polymer seals, or (2) possess a stainless steel or nickel aluminum bronze

seat ring. The metal seat ring shall have a machined dovetail groove to mechanically retain the elastomer seal. No vulcanized bonding or chemical bonding is permitted to facilitate seat retention. The seals shall be field replaceable. The elastomer seals to provide positive shut-off at both low and high pressure.

Disc

The disc shall completely cover the seat ring/seal when in the closed position to provide positive seal regardless of disc orientation.

The valve shall be F815 as manufactured by Tyco Valves & Controls.

Prince Wafer Check Valves Sizes 2" thru 36"

Tyco Valves & Controls

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