Back Pressure Check Valves

General Information

RegO® Back Pressure Check Valves are designed to allow flow in one direction only. The check, normally held in the closed position by a spring, precludes the possibility of flow out of the container. When flow starts into the container, the pressure overcomes the force of the spring to open the check. When the flow stops or reverses, the check closes.

Metal-to-metal seats will allow slight leakage after closure. These valves will restrict the escape of container contents in the event of accidental breakage of the piping or fittings.

Back Pressure Valves for Container or Line Applications 3146 Series, 3176 Series, A3186, A3187S, A3196, and A3276BC

Application

Designed to provide protection of a container opening when desired flow is always into the vessel. May be used in line applications where flow must be limited to one direction.

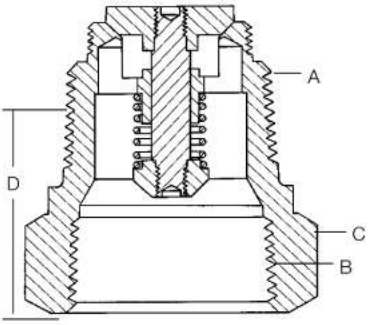
When used with the appropriate single check filler valve, the combination forms a double check filler valve suitable for use in filling of bulk storage tanks.

Features

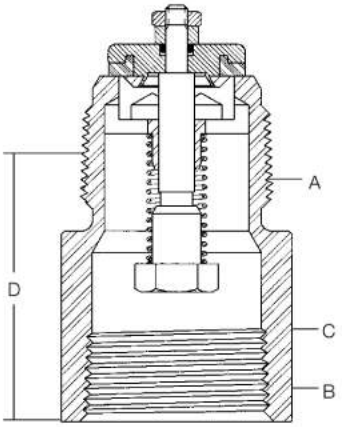
- Generous flow channels for low pressure drop.
- Heavy-duty construction for long service life.
- Soft seat valves have synthetic rubber seat disc for positive seals.

Materials

Body (3146, 3146S, 3176) ..... Brass
Body (all others) ..... Cadmium Plated Steel
Disc (3146, 3146S, 3176) ..... Brass
Disc (all others) ..... Cadmium Plated Steel
Stem (3146, 3146S, 3176) ..... Brass
Stem (A3146, A3196, A3276BC) ..... Stainless Steel
Stem (A3176, A3186) ..... Cadmium Plated Steel
Spring ..... Stainless Steel
Seat Disc (3146S, A3276BC) ..... Synthetic Rubber



3146 Series, 3176 Series, A3186, A3196



A3276BC

A3187S

Ordering Information

Part Number		A Inlet Connection F. NPT	B Outlet Connection M. NPT	C Wrench Hex Flats	D Effective Length (approx.)	Propane Liquid Capacity at various differential pressures (GPM)			
Brass	Steel					5 PSIG	10 PSIG	25 PSIG	50 PSIG
3146	A3146	3/4"	3/4"	1 3/8"	1 15/16"	11	16	25	36
3146S*									
3176	A3176	1 1/4"	1 1/4"	2"	1 3/8"	28	40	63	89
	A3276BC*				2 1/2"	32	45	73	103
	A3186	2"	2"	2 7/8"	2 7/16"	124	175	276	391
	A3187S*	2" M & 1 1/4" F	2" M & 1 1/4" F	2 3/8"	4 3/8"	60	110	225	350
	A3196	3"	3"	4"	3 15/16"	297	420	664	939

*Soft seat version.
NOTE: Multiply flow rate by .94 to determine liquid butane capacity and by .90 to determine liquid anhydrous ammonia capacity.

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Swing-Away Back Pressure Check Valves for Container or Line Applications 6586D and A6586D

Application

Designed to provide protection of a container opening when desired flow is always into the vessel. May also be used in the line applications where flow must be limited to one direction.

When used with the appropriate single check filler valve, the combination forms a double check filler valve suitable for use in filling of bulk storage tanks.

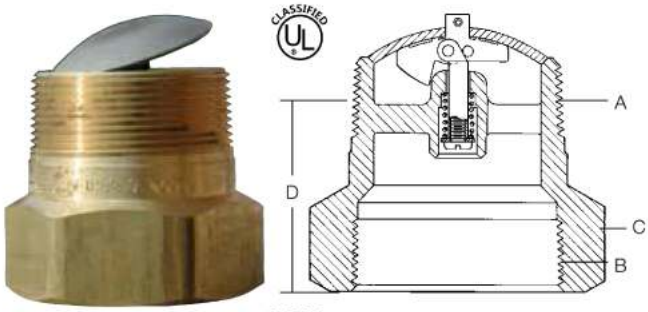
The swing-away check offers more efficient flow rates than conventional designs. It swivels open vertically to reduce pressure drop across the valve and improves flow rates.

Features

- Swing-away check design offers faster flow rates.
- Heavy-duty construction for long service life.

Materials

Body (6586D) ..... Brass
Body (A6586D) ..... Steel
Disc (6586D)..... Brass
Disc (A6586D) ..... Stainless Steel
Stem Assembly ..... Stainless Steel
Spring ..... Stainless Steel
Screw ..... Stainless Steel



6586D

Ordering Information

Part Number		A. Inlet Connection F. NPT	B. Outlet Connection M. NPT	C. Wrench Hex Flats	D. Effective Length (Approx.)	Propane Liquid Capacity at Various Differential Pressures (GPM)			
Brass	Steel					5 PSIG	10 PSIG	25 PSIG	50 PSIG
6586D	A6586D	2"	2"	2⅞"	2 1/16"	190	270	420	600

NOTE: Multiply flow rate by .94 to determine liquid butane capacity.

F

Back Pressure Check Valves for Flanged Installation A3400L4 and A3400L6

Application

Designed to provide high flow capacity and allow more efficient tank filling than conventional designs. The unobstructed throat area reduces flow turbulence through the valve, thereby reducing pressure drop. Large flow channels and spacious side ports assure ample capacity for the most demanding high capacity filling operations.

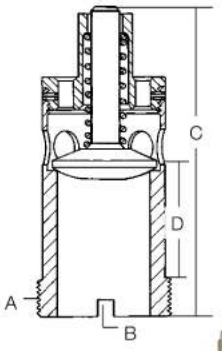
The valve is designed for installation in internally threaded flanges in container bottoms.

Features

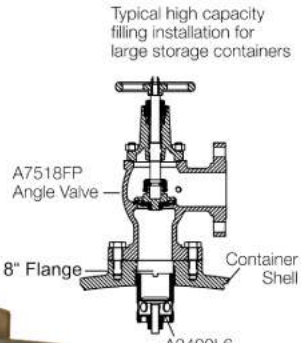
- Speeds up filling operations in bulk tanks.
- All steel and stainless steel construction assures long service life.

Materials

Body ..... Cadmium Plated Steel
Stem ..... Stainless Steel
Spring ..... Stainless Steel
Disc ..... Cadmium Plated Steel
Guide ..... Stainless Steel
Roll Pin ..... Stainless Steel



A3400L6



Ordering Information

Part Number	A. Flange Connection M. NPT	B. Wrench Hex Flats	C. Overall Length	D. Threaded End To Port	Propane Liquid Capacity at Various Differential Pressures (GPM)			
					5 PSIG	10 PSIG	25 PSIG	50 PSIG
A3400L4	2"	Slotted	5¼"	1 1/16"	223	316	500	707
A3400L6	3"		5 9/32"	1 1/16"	424	600	949	1342

NOTE: For installation in flange tank connections with internal threads, see the "Flanged Installation in Container" section under "Excess Flow Valves."
Multiply flow rate by .94 to determine liquid butane capacity and by .90 for liquid anhydrous ammonia capacity.

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