

Polypropylene Check Valves



687-12E



MCV220

Chemical Resistant Check Valves are constructed of polypropylene. Rated to 125 psi and 140° F. Stainless steel spring. Valves work in either a horizontal or vertical position. Cracking pressure is 1 psi. (1 to 2 PSI on 1" & 2"; 5 PSI on 3").

Part No.	FPT Ports	Seal
SM 681-4E	1/4"	EPDM
SM 683-6E	3/8"	EPDM
SM 685-8E	1/2"	EPDM
SM 687-12E	3/4"	EPDM
SM 681-4VV	1/4"	Viton®
SM 683-6VV	3/8"	Viton®
SM 685-8VV	1/2"	Viton®
SM 687-12VV	3/4"	Viton®
TK CV100	1"	EPDM
TK CV100MT	1" MPT x 1" FPT	EPDM
TK CV221	2"	EPDM
TK CV300	3" FPT	EPDM

Flanged with EPDM Internals	Flange Size	Flow Dia.	PSI
TK MCV100	1"	1"	300
TK MCV200	2" SP	1-1/2"	300
TK MCV221	2" FP	2"	200
TK MCV300	3" FP	3"	200

SPRING LOADED CHECK VALVES

LOW PRESSURE BRONZE CHECK VALVES



Bronze Check Valves are designed to allow full fluid flow. Brass disc and Teflon Seat for tightest possible seating capacity. Stainless Steel guide rod and spring. Can be installed horizontally or vertically. Maximum temperature 180° F. Rated @ 125 PSI steam and 400 PSI WOG. Opening pressure is approximately 1/2 PSI.

Part No.	FPT Ports	Wt.
WS 600-1/4	1/4"	0.2 lbs.
WS 600-3/8	3/8"	0.2 lbs.
WS 600-1/2	1/2"	0.2 lbs.
WS 600-3/4	3/4"	0.7 lbs.
WS 600-1	1"	1.3 lbs.
WS 600-1-1/4	1-1/4"	1.6 lbs.
WS 600-1-1/2	1-1/2"	2.5 lbs.
WS 600-2	2"	3.1 lbs.
WS 600-3	3"	13.0 lbs.
EV 385-125OS	** 1-1/4"	0.4 lbs.

* Vertical mount recommended.
** Valve features EPDM poppet & 4 PSI crack pressure.

Wafer Check Valve with External Spring & Lever



The **SDX Series** from **Champion Valves** is a quality wafer check valve with an external spring and lever for manual override. Angular shape of the inlet port accelerates the media through the valve. Conical Disc angle and convex profile allows fluid to travel faster around the disc. External Spring & Lever Assembly is standard in righthand but available in lefthand orientation, as well. The adjustable tension spring allows for additional external force to assist in valve closure. Additionally, it allows adjustment setting of the cracking pressure. The lever on the Champion Valves SDX Model provides visual indication of disc position and allows for manual operation of the valve disc – an example being in back flush applications.

- Low cracking pressures
- Available Body Material: Ductile Iron, Carbon Steel, 304SS, or 316SS
- Available Seats: EPDM, Buna-N, Viton®, Teflon®, Silicone, Neoprene®, and 316SS (except Ductile Iron Body)
- Class 150# on 316SS Bodies and Class 125# on Ductile Iron Bodies
- Temperature Rating Varies on Seat Material (EPDM Rated to 300° F & Viton® rated to 400° F)
- 316SS Spring is Standard
- Serrated-Raised Face is Standard but Plain Face Available



Ductile Iron Valve Shown

Part No.	Size	Body Material	Disc Material	Seat Material	Cracking Pressure
KE SDX-3	3"	316SS	316S	EPDM	.35*
KE SDX-3V	3"	316SS	316S	Viton®	.35*
KE SDXA-3V	3"	Ductile Iron	304S	Viton®	.35*
KE SDX-4	4"	316SS	316S	EPDM	.29*
KE SDX-4V	4"	316SS	316S	Viton®	.29*
KE SDXA-4V	4"	Ductile Iron	304S	Viton®	.29*
KE SDX-6	6"	316SS	316S	EPDM	.46†
KE SDX-6V	6"	316SS	316S	Viton®	.46†
KE SDXA-6V	6"	Ductile Iron	304S	Viton®	.46†

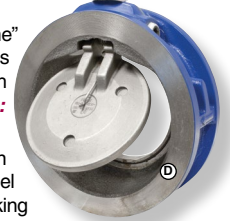
* Based upon Lever Weight of .227 † Based upon Lever Weight of 2.209

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Wafer Check Valves

— Single Disc —

Wafer-Style Check Valves are designed for "in-line" mounting. Ideal for water, fertilizer, fuel and other liquids compatible with o-ring seats as shown. Compatible with Class 125 (iron) or Class 150 (steel) flanges. **Note:** Can be mounted vertically or horizontally.



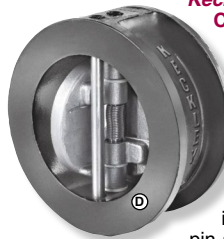
Standard Features Include: Light Weight • Cast Iron Body • Viton® Seats Standard • 316 Stainless Steel Discs and Internal Springs • Rated to 125 PSI • Cracking pressure is approximately 0.5 PSI.

Part No.	Pipe Size	Seat	GPM @ 2 PSI Loss	Wt.
KE SDR-2V	* 2"	Viton®	99	4 lbs.
KE SDR-3V	* 3"	Viton®	318	7 lbs.
KE SDR-4V	* 4"	Viton®	417	11 lbs.
KE SDR-6V	* 6"	Viton®	990	20 lbs.
KE SDR-8V	* 8"	Viton®	1796	29 lbs.

* Champion Brand

Cast Iron Wafer Body Check Valves

KECKLEY — Double Disc Design —



Keckley Wafer-Style, Cast Iron, Body Double Disc Check Valves are produced by the investment casting process. Valves listed below are ANSI 125lb class, but 150lb and 300lb rated check valve options are available. The Style DD check valves can be installed in both vertical and horizontal applications (Call for all downward vertical flow installations).

The **Keckley** cast iron wafer double disc check valve has pin retainer holes in the body. Pins are inserted into the retainer holes to hold the hinge pin and stop in place (Retainerless check valves are available in bronze, carbon steel, stainless steel, and other specialty cast alloys). Available in multiple elastomer options: Buna, EPDM, Viton, PTFE Teflon, Neoprene or metal options – please call for specifications.

Features: Short face-to-face dimensions • Low cracking pressures and field-serviceable design eliminates need for special tools • Standard cracking pressure of .3 PSI (horizontal mounting) • Epoxy coating is standard • Available sizes: 2" thru 48" • Maximum Pressure of ANSI 125# Class at 450° F. is 125 PSI. At 150° F. maximum pressure is 200 PSI • Applicable Standards: Design API 594, Testing API 598, ASME B16.1, MSS SP-6, MSS SP-25 • ASTM A126, Class.

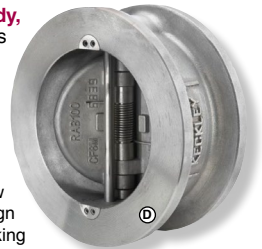
Part No.	Pipe Size	Seat	GPM @ 1 PSI Head Loss	Wt.
DZ DD1F-CI200B	2"	Buna	45	4 lbs.
DZ DD1F-CI250B	2.5"	Buna	70	6 lbs.
DZ DD1F-CI300B	3"	Buna	125	7 lbs.
DZ DD1F-CI400B	4"	Buna	270	12 lbs.
DZ DD1F-CI600B	6"	Buna	750	20 lbs.
DZ DD1F-CI800B	8"	Buna	1300	40 lbs.

KECKLEY 316SS Check Valves

Retainerless Wafer Body Double Disc Design

Keckley Wafer-Style, 316 Stainless Steel Body, Double Disc Check Valves boast a retainerless design. Check valves listed below are ANSI 150lb rated, while 300lb & 600lb rated check valve options are available. **Keckley** Style DD check valves can be installed in both vertical and horizontal applications Call for all downward vertical flow installations.

Features: Short face-to-face dimensions • Low cracking pressures and field-serviceable design eliminates need for special tools • Standard cracking pressure of .3 PSI (horizontal mounting) • Retainerless design eliminates potential leak paths as there are no body penetrations • Available sizes: 2" thru 48" • Standard Working Pressure of 275PSI @ 100° F. • 316SS Disc and Inconel X750 Spring.



Part No.	Pipe Size	Seat	GPM @ 1 PSI Head Loss	Wt.
DZ DD1F-SS200	2"	Viton®	45	6 lbs.
DZ DD1F-SS300	3"	Viton®	125	13 lbs.
DZ DD1F-SS400	4"	Viton®	270	17 lbs.
DZ DD1F-SS600	6"	Viton®	750	35 lbs.
DZ DD1F-SS800	8"	Viton®	1300	70 lbs.