

Style CG

Cast Iron (ASTM A 126, Class B)
125 lb. & 250 lb. Flanged

Carbon Steel (ASTM A 216, Grade WCB)
150 lb. & 300 lb. Flanged

Stainless Steel (ASTM A 351, Grade CF8M)
150 lb. & 300 lb. Flanged



Globe Silent Check Valve

APPLICATIONS

Liquid or gas where protection from flow reversal in a pipeline is required.

CONSTRUCTION

The Keckley Style CG Globe Silent Check Valves are constructed from rugged castings that are machined to exacting specifications. Their bodies have drilled flanges that are in accordance with ASME. Reference individual technical data pages for standard disc, seat, spring, and bushing.

FEATURES

- A spring automatically closes the disc at zero flow, which prevents flow reversal and water hammer.
- The seat and disc's mating surfaces are hand lapped.
- The disc is fully guided at the top and bottom to prevent binding and cocking.
- Designed for a minimum open area equal to 110% of the pipe size.
- All sizes feature discs, which lift 1/3 of an inch from their seats for every 1" of pipe size.
- Epoxy coating is standard.
- Optional soft seat provides bubble tight shut off.
- Field serviceable without the need for special tools.

INSTALLATION

The Style CG is used in both vertical and horizontal applications. Contact Keckley for downward vertical flow installations.

ORDERING

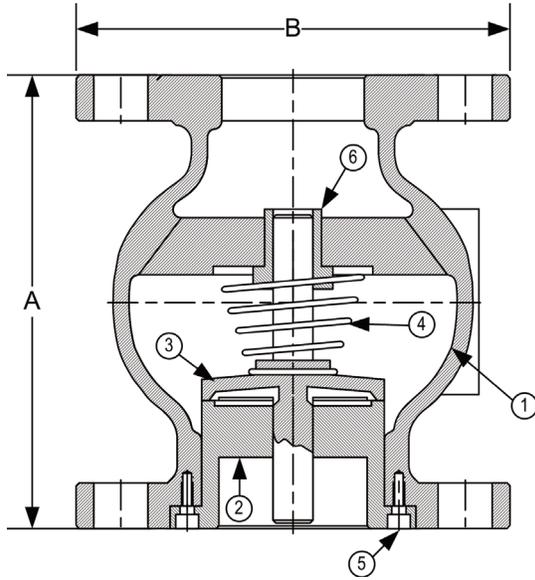
Reference page C2 for Keckley Check Valve Product Numbers.

WORKING PRESSURES - NON SHOCK

NOM. RATING	BODY MATERIAL	MEDIA	2" to 12"	14" to 24"
125#	CAST IRON (ASTM A 126, CLASS B)	W.O.G.	200 PSI @ 150°F	150 PSI @ 150°F
NOM. RATING	BODY MATERIAL	MEDIA	2" to 12"	14" to 24"
250#	CAST IRON (ASTM A 126, CLASS B)	W.O.G.	500 PSI @ 150°F	300 PSI @ 150°F
NOM. RATING	BODY MATERIAL	MEDIA	2" to 24"	
150#	CARBON STEEL (ASTM A 216, GRADE WCB)	W.O.G.	285 PSI @ 150°F	
	STAINLESS STEEL (ASTM A 351, GRADE CF8M)	W.O.G.	275 PSI @ 150°F	
NOM. RATING	BODY MATERIAL	MEDIA	2" to 24"	
300#	CARBON STEEL (ASTM A 216, GRADE WCB)	W.O.G.	740 PSI @ 150°F	
	STAINLESS STEEL (ASTM A 351, GRADE CF8M)	W.O.G.	720 PSI @ 150°F	

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125 lb. & 250 lb. Flanged
Cast Iron (ASTM A 126, Class B)**



PARTS LIST

ITEM	DESCRIPTION	MATERIAL
1	Body	Cast Iron (ASTM A 126, Class B)
2	Seat	Cast Bronze (ASTM B 62, C83600)
3	Disc	Cast Bronze (ASTM B 62, C83600)
4	Spring	Stainless Steel (ASTM A 182, Grade F-304)
5	Screw	Stainless Steel (ASTM A 182, Grade F-304)
6	Bushing	Stainless Steel (ASTM A 182, Grade F-304)

Above "Standard" Product Number - **CG1F-CI-B2334** (125# Class)
Above "Standard" Product Number - **CG3R-CI-B2334** (250# Class)
Other Options - Reference **C2** for available materials.

SIZE		DIMENSIONS								WEIGHTS			
		A				B				125#		250#	
		125#		250#		125#		250#		lbs	kgs	lbs	kgs
in	mm	in	mm	in	mm	in	mm	in	mm				
2	50	6-1/4	159	6-3/4	171	6	152	6-1/2	165	22	10	26	12
2-1/2	65	7	178	7-5/8	194	7	178	7-1/2	191	25	11	30	14
3	80	7-1/2	191	8-1/4	210	7-1/2	191	8-1/4	210	33	15	45	20
4	100	8-1/2	216	9-1/8	232	9	229	10	254	58	26	75	34
5	125	9-1/2	241	10-3/8	264	10	254	11	279	75	34	135	61
6	150	10-1/2	267	11-3/8	289	11	279	12-1/2	318	96	44	146	66
8	200	13-1/2	343	14	356	13-1/2	343	15	381	180	82	245	111
10	250	16-1/4	413	17	432	16	406	17-1/2	445	270	122	370	168
12	300	20-1/4	514	20-7/8	530	19	483	20-1/2	521	455	206	675	306
14	350	22-3/4	578	23-3/8	594	21	533	23	584	600	272	770	349
16	400	24-3/4	629	25-5/8	651	23-1/2	597	25-1/2	648	844	383	1005	456
18	450	22-1/2	572	24-1/8	613	25	635	28	711	900	408	1240	562
20	500	24	610	25-5/8	651	27-17/32	699	30-1/2	775	1145	519	1780	807
24	600	24	610	24-7/8	632	32	813	36	914	1550	703	2550	1157

Larger sizes available upon request.

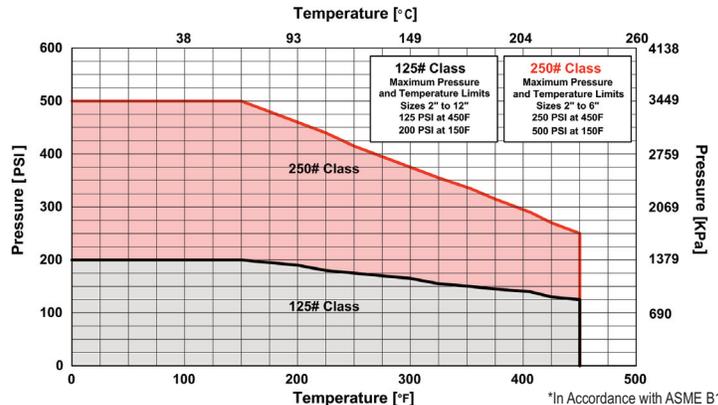
*This table reflects only the nearest metric equivalents.

Seat Material	Operating Temperature**		Applicable Standards
	°F	°C	
Buna-N	-20 to 250	-29 to 121	<ul style="list-style-type: none"> • Design ASME B16.1 • Testing API 598
Viton	-20 to 400	-29 to 204	<ul style="list-style-type: none"> • MSS SP-6 • MSS SP-25 • MSS SP-55
EPDM	-40 to 300	-40 to 149	

**Subject to limitations of body material.

PRESSURE vs. TEMPERATURE CHART

125# & 250# Flanged Cast Iron (ASTM A 126, Class B)



FLOW COEFFICIENTS

Size	2"	2-1/2"	3"	4"	5"	6"	8"
C _v	62	103	146	259	407	597	1095
Size	10"	12"	14"	16"	18"	20"	24"
C _v	1710	2450	3250	4125	4910	6225	9625



PRESSURE DROP CHART

Globe Silent Check Valve (Style CG)

This pressure drop chart is based on the flow of clean water through the Keckley Globe Silent Check Valve. The Keckley Style CG has a cracking pressure equal to or less than 0.5 psi when mounted horizontally. Check valves should be placed at a distance equal to 5 to 10 pipe diameters from any turbulence producing device such as elbows, pumps, etc.

TO USE CHARTS:

Find your desired rate of flow (GPM) on the left hand side of the chart. Follow its corresponding horizontal line to the point where it intersects the diagonal line indicating the check valve pipe size. From this point of intersection, follow the vertical line down to the bottom of the chart to determine the approximate pressure drop.

