

Anti-Water Hammer Check Valves

Fire-protective systems in high buildings sometimes experience severe water hammer from backflow of a pressure tank when the automatic control shuts down the fire pump. These special check valves are FM Approved only for use in the discharge of a fire pump where conditions may be expected to cause serious water hammer with the usual swing type valve. However, the friction loss through these valves is generally higher than that of a conventional single check valve. Available friction loss data is tabulated in the listings below. The flow rates shown are the maximum flows anticipated for the corresponding valve sizes. Lower flow rates will result in comparably lower losses. Unless otherwise noted in the listing, these valves have 175 psi (1205 kPa) rated working pressure.

Series 580, 581, 582 Wafer Style and Globe Style

Product Designation	Valve Size, in.	Flow Rate, gal/min (dm³/min)	Friction Loss, psi (kPa)
Series 580 Wafer Style*			
	2	200 (755)	21.6 (149)
	2 1/2	250 (945)	9.5 (67)
	3	400 (1515)	10 (69)
	4	750 (2840)	10.8 (75)
	5	1000 (3785)	8.0 (55)
	6	1500 (5680)	8.6 (59)
	8	3000 (11 355)	10.3 (71)
	10	5000 (18 925)	12.3 (85)
Series 581 Globe Style*			
	2 1/2	250 (945)	3.9 (27)
	3	400 (1515)	5.2 (36)
	4	750 (2840)	6.1 (42)
	5	1000 (3785)	3.7 (26)
	6	1500 (5680)	5.0 (35)
	8	3000 (11 355)	5.4 (37)
	10	5000 (18 925)	6.5 (45)
	12	7000 (26 500)	6.5 (45)
Series 582 Dual Disc Wafer Style*			

	2	200 (755)	8.7 (60)
	2 1/2	250 (945)	5.6 (39)
	3	400 (1515)	5.6 (39)
	4	750 (2840)	5.6 (39)
	5	1000 (3785)	3.5 (24)
	6	1500 (5680)	3.5 (24)
	8	3000 (11 355)	3.7 (26)
	10	5000 (18 925)	3.7 (26)
	12	7000 (26 500)	3.2 (22)

*200 psi (1380 kPa) rated working pressure.

Company Name:	Cla-Val Co.
Company Address:	1701 Placentia, Costa Mesa, California 92627, USA
Company Website:	http://cla-val.com
New/Updated Product Listing:	No
Listing Country:	United States of America
Certification Type:	FM Approved
Class of Work:	1230-Anti-Wtr Hammer Ck Valves