

Fisher Excess Flow Valves



F107



F138



F199



F130

An excess flow valve is a valve designed to close when the liquid or vapor passing through it exceeds a prescribed flow rate. They are used to protect cylinder, tank, and piping systems, and are available in a variety of sizes and body configurations.

When flow exceeds the valve setting, the valve closes and remains closed until the system equalizes. A built-in passage allows pressure to equalize when all valves in the system are closed. When pressure is equal, the valve spring pushes the valve disc back to the open position. Valves larger than 1/2" NPT use a #60 drill hole to accomplish the equalization, valves 1/2" NPT and smaller have a limited bypass to comply with NFPA 58.

WARNING: A break or leak downstream of an excess flow valve that does not allow a flow equal to the valve flow rating will not actuate the valve and could cause a hazardous condition. For this reason, system operators should be familiar with the shutoff valves in the system so that necessary precautions can be taken in an emergency.

Care must be taken to be sure the valve's closing rate is less than the capacity of the LP-Gas or NH₃ system in which the valve is installed. Brass valves are not suitable for NH₃ applications.

Bergquist

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Type Number	Material	Application	Inlet Connection	Outlet Connection	UL Rated Closing Flow, Propane (Horizontal Position)			PSID		
					Liquid, GPM	Vapor SCFH				
						25 psig Inlet	100 psig Inlet			
F138	Brass	In-Line	1/4" MNPT	1/4" MNPT	1.8	377	641	1.4		
F170	Brass	Tanks (Full or Half Coupling)	3/4" MNPT	3/4" FNPT	6.6	1,184	2,012	1.2		
F100	Brass				8.4	2,010	3,417	2.4		
F101	Brass				20	3,459	5,880	8.5		
F102	Brass				1 1/4" MNPT	1 1/4" FNPT	33	6,300	10,630	10.7
F105	Brass						55	9,982	16,967	10.7
F106	Brass				2"	2"	85	18,513	31,467	2.6
F107	Brass				100	20,796	35,349	3.6		
F130	Brass	1" FNPT	1" FNPT	25	5,287	8,986	3.3			
F131	Brass	In-Line	1 1/2" FNPT	1 1/2" FNPT	60	11,694	19,877	4.7		
F132	Brass				95	19,874	33,877	2.1		
F133	Brass				2" FNPT	2" FNPT	155	29,202	49,718	4.2
F134	Brass	Tanks (Full or Half Coupling)	1 1/2" MNPT x 1" FNPT	1" FNPT	28	5,181	8,806	2.7		
F135	Brass		2 1/2" MNPT x 1/2" FNPT	1 1/2" FNPT	60	12,000	20,290	5.2		
F190	Steel	Tanks ¹ (Full or Half Coupling)	2" MNPT	2" MNPT x 1 1/4" FNPT	80	15,400	26,250	3.7		
F191	Steel				105	18,800	32,000	8.9		
F194	Steel				3" MNPT	2" MNPT	165	32,800	55,950	3.1
F195	Steel						260	50,650	86,350	6.9
F198	Steel				3" MNPT	3" MNPT x 2" FNPT	165	33,000	56,250	3.1
F199	Steel						260	49,500	84,350	7.1

1. LP-Gas or NH₃ service.

Notes: BTU's = SCFH x 2520