

Performance Characteristics

UMAC Series 1800 (Green Label) Excess Flow Valves

5 psig to 1,000 psig
(345 mbar to 69 bar) – Inlet Pressure

Inlet Pressure		SERIES 1800' Nom. Min. Trip Point 0.6 SG Gas		Bypass Flow After Trip (Nom. Max) 0.6 SG Gas	
psig	bar	SCFH	SCMH	SCFH	SCMH
5	0.34	1,800	50.97	18	0.51
10	0.69	2,000	56.63	20	0.57
15	1.03	2,250	63.71	23	0.65
20	1.38	2,500	70.79	25	0.71
30	2.07	2,800	79.29	28	0.79
40	2.76	3,100	87.78	32	0.91
50	3.45	3,400	96.28	35	0.99
60	4.14	3,800	107.60	37	1.05
70	4.83	4,100	116.10	39	1.10
80	5.52	4,300	121.76	41	1.16
90	6.21	4,500	127.43	46	1.30
100	6.90	4,700	133.09	50	1.42
150	10.34	5,270	149.23	75	2.12
200	13.79	6,135	173.72	88	2.44
250	17.24	6,900	195.39	115	3.26
300	20.69	7,635	216.20	130	3.68
350	24.14	8,360	236.73	155	4.39
400	27.59	8,900	252.02	175	4.96
450	31.03	9,455	267.74	185	5.24
500	34.48	9,955	281.89	195	5.52
550	37.93	10,360	293.36	215	6.09
600	41.38	10,725	303.70	240	6.80
650	44.83	11,090	314.03	260	7.36
700	48.28	11,315	320.40	275	7.79
720	49.66	11,360	321.68	290	8.21

1. For pressures over 720 psig (49.66 bar) contact GasBreaker, Inc.

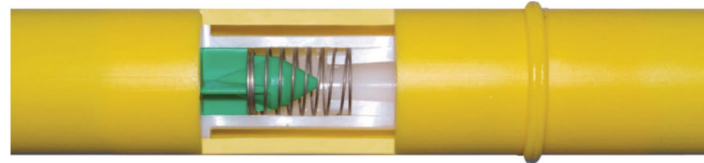
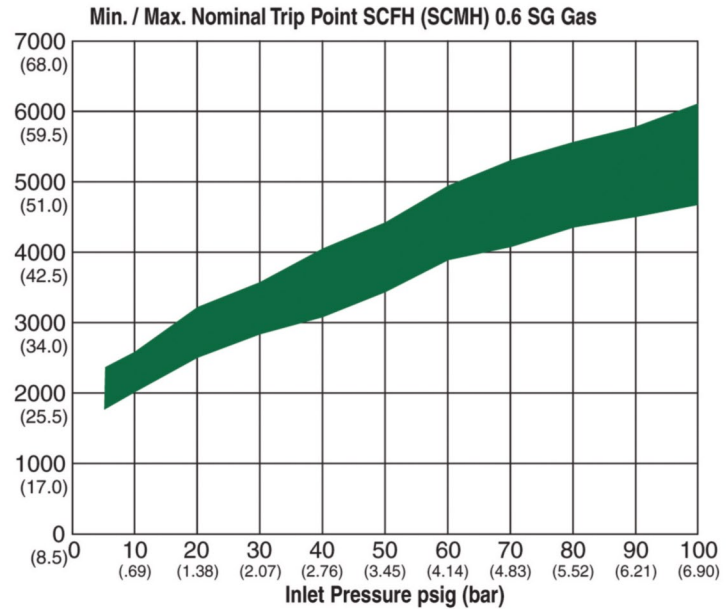
Note: Calculate service line capacities from given flow and pressure drop data to ensure adequate flow capacity is available to operate valve. For additional assistance with sizing and technical information on UMAC Excess Flow Valves, please contact GasBreaker, Inc.

A free UMAC EFV Design CD is available.

The technical data contained herein are guides to the use of UMAC Valves. The advice contained herein is based upon tests and information believed to be reliable, but users should not rely upon it absolutely for specific applications. It is given and accepted at user's risk and confirmation of its validity and suitability in particular cases should be obtained independently. GasBreaker, Inc. makes no guarantee of results and assumes no obligation or liability in connection with its advice. This publication is not to be taken as a license to operate under or recommendation to infringe any patents.

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AVAILABILITY

UMAC Series 1800 EFVs available in sizes ranging from ¼ IPS - 2 IPS sticks and prefabricated models in other sizes. (see page 3 for examples)

All valves comply with: DOT Part 192.381, ASTM F 2138 and MSS SP-115: Excess Flow Valves

Tested in accordance with ASTM F 1802: Standard Test Method for Performance Testing of Excess Flow Valves

AVERAGE PRESSURE DROP AT AN INLET PRESSURE OF 10 PSIG (0.69 BAR)

UMAC EFV	Typical Customer Gas Load (0.6 SG Gas)		Average Pressure Drop Across Valve	
	SCFH	SCMH	psi	mbar
Series 1800	1000	28.32	0.44	30.34