

Performance Characteristics

UMAC Series 400 (Blue Label) Excess Flow Valves

10 psig to 1,000 psig
(690 mbar to 69 bar) – Inlet Pressure

Inlet Pressure		SERIES 400' Nom. Min. Trip Point 0.6 SG Gas		Bypass Flow After Trip (Nom. Max) 0.6 SG Gas	
psig	bar	SCFH	SCMH	SCFH	SCMH
10	0.69	400	11.33	20	0.57
15	1.03	430	12.18	23	0.65
20	1.38	490	13.88	25	0.71
30	2.07	560	15.86	28	0.79
40	2.76	640	18.12	32	0.91
50	3.45	700	19.82	35	0.99
60	4.14	760	21.52	37	1.05
70	4.83	810	22.94	39	1.10
80	5.52	860	24.35	41	1.16
90	6.21	910	25.77	46	1.30
100	6.90	970	27.47	50	1.42
150	10.34	1,160	32.85	75	2.12
200	13.79	1,180	33.41	88	2.44
250	17.24	1,310	37.10	115	3.26
300	20.69	1,450	41.06	130	3.68
350	24.14	1,540	43.61	155	4.39
400	27.59	1,630	46.16	175	4.96
450	31.03	1,720	48.70	185	5.24
500	34.48	1,760	49.84	195	5.52
550	37.93	1,850	52.39	215	6.09
600	41.38	1,920	54.37	240	6.80
650	44.83	1,990	56.35	260	7.36
700	48.28	2,060	58.33	275	7.79
720	49.66	2,100	59.47	290	8.21

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

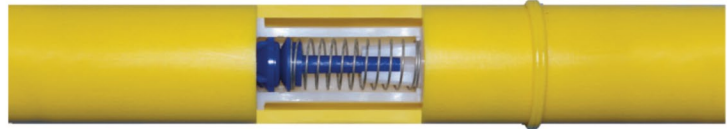
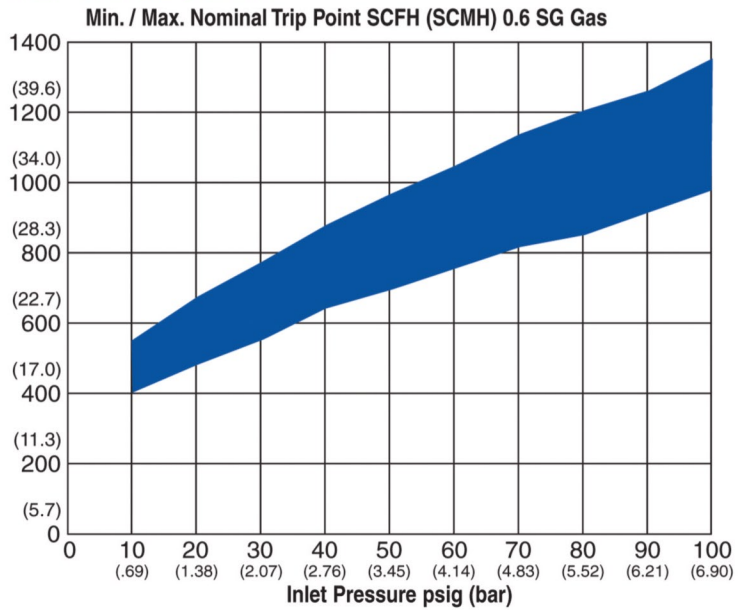
Note: Calculate service line capacities from given flow and pressure drop data to ensure adequate flow capacity is available to operate valve. For additional assistance with sizing and technical information on UMAC Excess Flow Valves, please contact GasBreaker, Inc.

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 400 EFVs available in sizes ranging from 3/4 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 400	275	7.79	1.38	94.83