

Performance Characteristics

Series 700

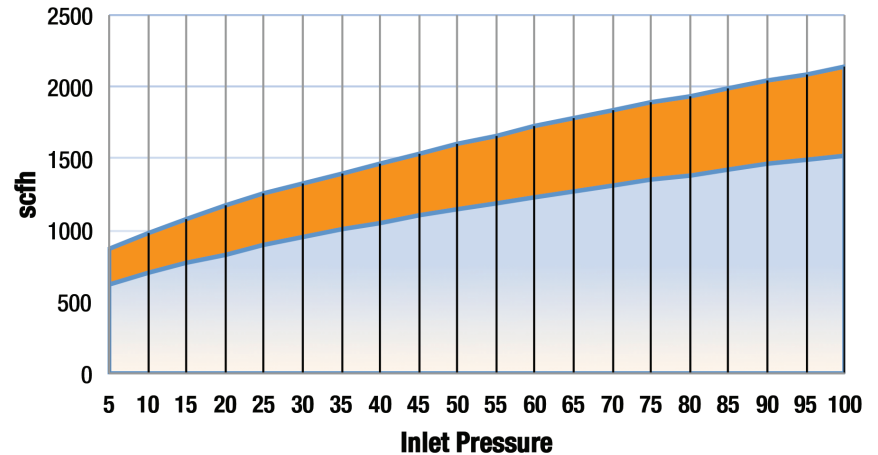
Orange Label Excess Flow Valves

5 psig to 1,000 psig – inlet Pressure

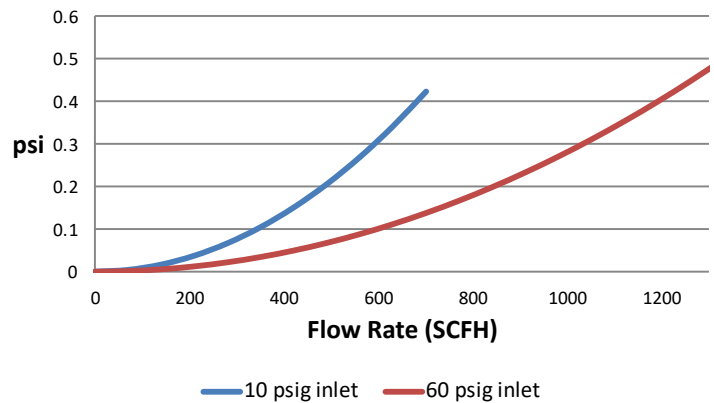


| INLET PRESSURE | SERIES 700 MINIMUM TRIP POINT | BYPASS FLOW AFTER TRIP (NOM. MAX) |
|----------------|-------------------------------|-----------------------------------|
| psig | SCFH | SCFH |
| 5 | 600 | 18 |
| 10 | 700 | 20 |
| 15 | 760 | 23 |
| 20 | 830 | 25 |
| 30 | 960 | 28 |
| 40 | 1,060 | 32 |
| 50 | 1,200 | 35 |
| 60 | 1,300 | 37 |
| 70 | 1,410 | 39 |
| 80 | 1,480 | 41 |
| 90 | 1,540 | 46 |
| 100 | 1,600 | 50 |
| 150 | 1,780 | 75 |

TRIP RANGE CHART



Pressure Drop

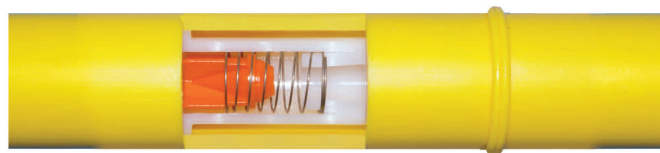


PROTECTED LENGTH (ft)

| INLET PRESSURE (psig) | 1 CTS (.099) 0.915 | 3/4 IPS 0.849 | 1 IPS 1.061 | 1 1/4 IPS DR10 1.308 | 2 IPS 1.917 |
|-----------------------|--------------------|---------------|-------------|----------------------|-------------|
| 10 | 2187 | 1527 | 4451 | 12156 | 76145 |
| 20 | 4237 | 2958 | 8624 | 23549 | 147520 |
| 40 | 8112 | 5663 | 16510 | 45086 | 282431 |
| 60 | 11956 | 8347 | 24334 | 66450 | 416261 |
| 80 | 15839 | 11058 | 32236 | 88030 | 551441 |

Note:

Calculate service line capacities from given flow and pressure drop data to ensure adequate flow capacity is available to operate valve. Tables and Charts developed for standard conditions: 60° and 0.6 specific gravity gas. For additional assistance with sizing and technical information on GasBreaker Excess Flow Valves, please contact GasBreaker.



AVAILABILITY

Series 700 EFVs available in 3/4 IPS – 2 IPS sticks and prefabricated models in other sizes. (see page 4 for examples)

COMPLIANCE

All valves comply with: DOT Part 192.381, ASTM F 2138 and MSS SP-115: Excess Flow Valves Tested to, or in accordance with, ASTM F 1802.

