

# High Flow/High Pressure

maximum 3750 PSIG (brass), 4500 PSIG (SST) in  
 ranges: 0 - 1500 PSIG out  
 pressure reducing

# 44-1300 Series

## Specifications

### Operating Parameters

pressure rating per criteria of ANSI/ASME B31.3  
 maximum operating pressure:  
 stainless steel body . . . . . 4,500 PSIG  
 brass body . . . . . 3,750 PSIG  
 outlet pressure ranges . . . . . 0-300, 0-600,  
 0-1000 & 0-1500 PSIG  
 design proof pressure . . . 150% of rated pressure  
 leakage . . . . . bubble-tight  
 operating temperature<sup>1</sup> . . . . . -15° F to +220° F  
 (-25° C to +104° C)

flow capacity:<sup>2</sup>

1/4" main valve. . . . . C<sub>v</sub> = 0.8  
 3/8" main valve. . . . . C<sub>v</sub> = 2.0

<sup>1</sup> For extended temperatures from -65°F to +400°F, consult Tescom.

<sup>2</sup> A secondary pressure drop due to the outlet cross-hole can significantly affect the rated flow capacity. Flow curves should be used for critical sizing applications.

### Media Contact Materials

body . . . . . brass, 303 or 316 Stainless Steel  
 seat, main valve:  
 300 PSIG outlet. . . . . Teflon®  
 600, 1000 & 1500 outlet. . . . . CTFE  
 seat, vent valve:  
 300 & 600 PSIG outlet. . . . . Teflon®  
 1000 & 1500 PSIG outlet. . . . . CTFE  
 o-rings . . . . . Viton-A®  
 back-up rings . . . . . Teflon®  
 gaskets . . . . . CTFE  
 remaining parts. . . . . 300 Series Stainless Steel,  
 17-4, 17-7 Stainless Steel, Teflon® & Brass

*For other materials and modifications, please consult Tescom.*

Cleaning . . . . . CGA 4.1 and ASTM G93

Weight (without gauges) . . . . . 6.25 lbs. (2.83 kg)

**Pressure Conversion** 14.5 PSIG = 1 bar 145 PSIG = 1 MPa

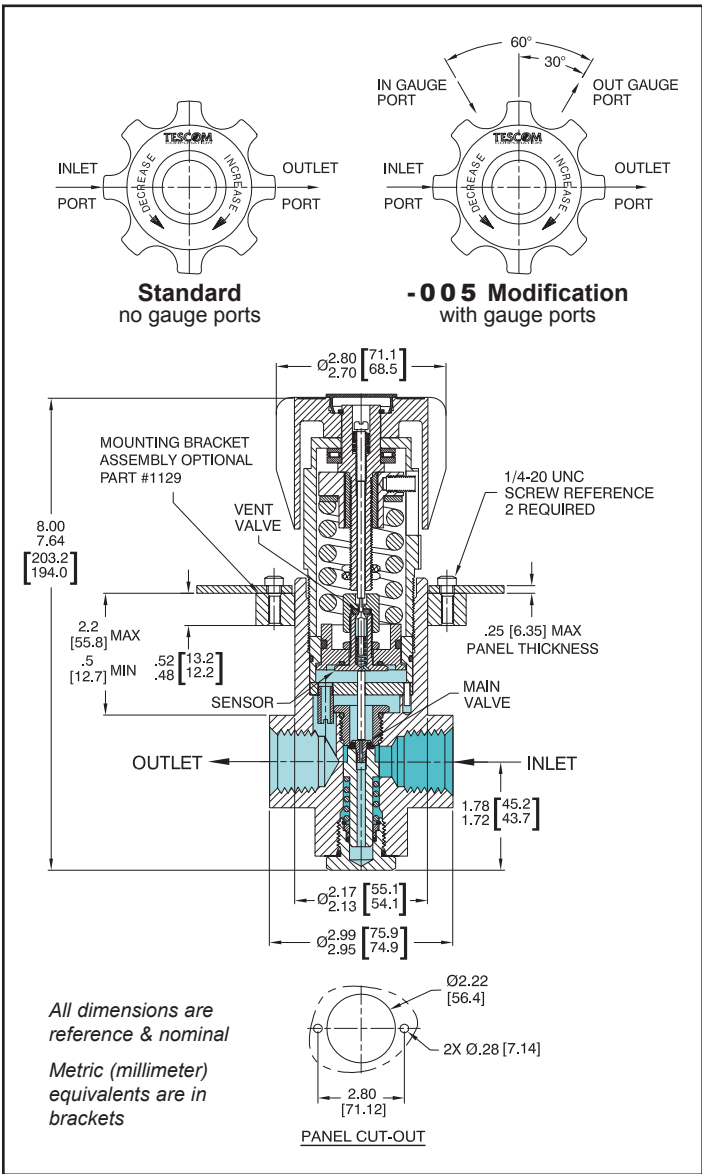
*Teflon® and Viton-A® are registered trademarks of Du Pont.*



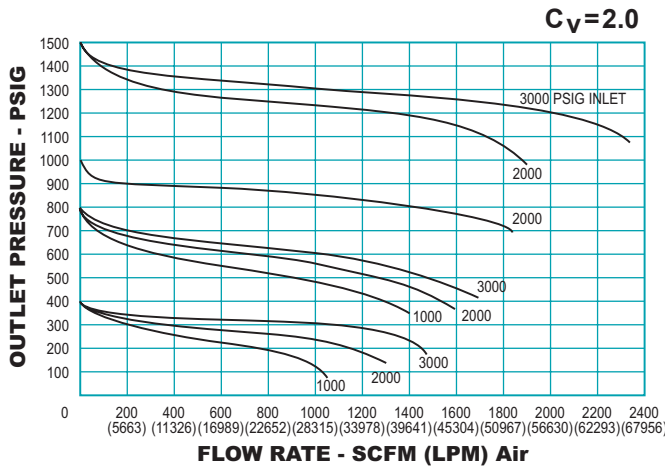
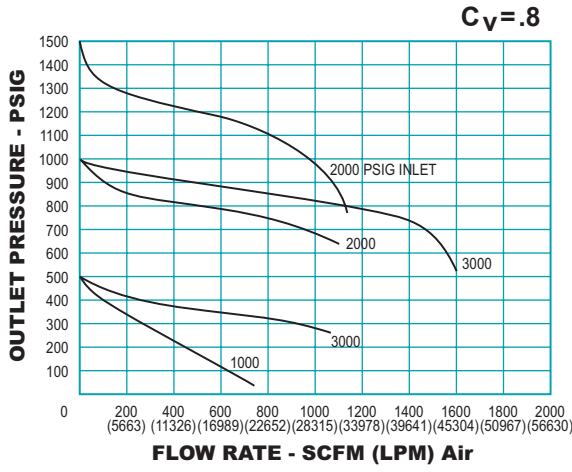
## Advantages

- Large piston sensor gives excellent sensitivity
- Balanced valve design assures stable downstream pressure
- Large handknob provides fast low-torque pressure settings
- Self-venting standard
- Available with gauge ports
- Dome and Air loaded models available (non-venting only)
- Optional 6000 or 5000 PSIG inlet with 2500 PSIG outlet

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### Flow Charts



- OPTIONS**
- 056 Modification – 6000 or 5000 PSIG inlet pressure with 2500 PSIG outlet pressure
  - 002 Modification – Non-venting, no gauge ports
  - 019 Modification – Non-venting with gauge ports

### Part Number Selector

example part number:

**44-13 1 3 - 2 08 1**

BASIC SERIES	BODY MATERIAL	INLET PRESSURE	OUTLET PRESSURE RANGE	PORT TYPE	PORT SIZE	MAIN VALVE
44-13	1 – Brass	3750 PSIG	2 – 0-300 PSIG	1 – SAE	08 – 1/2"	1 – 1/4" $C_v = 0.8$
	2 – 303 Stainless Steel	4500 PSIG	3 – 0-600 PSIG	2 – NPT	12 – 3/4"	2 – 3/8" $C_v = 2.0$
	6 – 316 Stainless Steel	4500 PSIG	5 – 0-1000 PSIG 6 – 0-1500 PSIG	3 – MS33649 9 – BSP		

*Repair Kits, Accessories & Modifications may be available for this product. Please contact Tescom for more information.*

**⚠ WARNING!** Do not attempt to select, install, use or maintain this product until you have read and fully understood the Tescom Safety, Installation & Operation Precautions.

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