

SERIES KT 12 SINGLE STAGE, HIGH FLOW, HIGH PRESSURE REGULATOR

- 6,000 psig inlet (414 bar)
 5 to 2,500 psig outlet (0.35 to 172 bar)
- Stainless steel or brass construction
- Self relieving and non-relieving versions**
- Machined from bar stock
- Field repairable
- Fine adjustment control
- Piston sensing element
- High flow, 0.8 C_V
 Higher flow, HF option, 2.0 C_V
- High flow with high delivery pressure
- Balanced poppet design
- Pneumatic actuator option for pneumatic outlet pressure control
- Installation and operating instructions available at <u>www.aptech-online.com</u> in the Tech Briefs section



ENGINEERING DATA Operating Parameters

Source pressure*

SS body 6,000 psig (414 bar) Brass body 5,000 psig (345 bar)

Delivery pressure 5 to 120 psig (0.35 to 8.3 bar)*

5 to 300 psig (0.35 to 21 bar) 5 to 600 psig (0.35 to 41 bar) 10 to 1,000 psig (0.7 to 69 bar) 15 to 1,500 psig (1.0 to 103 bar) 25 to 2,500 psig (1.7 to 172 bar) 150% of maximum rating

Design proof pressure 150% of maximum rating 400% of maximum rating

Other Parameters

Inlet /outlet ports 1/2" and 3/4" NPT (options available)
Flow coefficient Cv 0.8 (opt HF 2.0)

Cv vent valve 0.06 (self relieving option only)
Operating temperature -40 to +160F (-40 to +71C)

Leak rate Bubble tight

Supply pressure effect Refer to installation and Operating Instructions

Self relieving** Standard, non-relieving optional

(must be specified)

Shipping weight (approx.) 8 lb (3.6 kg

B

Brass

PCTFE

*Source pressure for 120 psig max. delivery pressure option limited to 3500 psig (241 bar) max.

Fluoroelastomer / FKM

MATERIALS OF CONSTRUCTION

MATERIAL OPTION

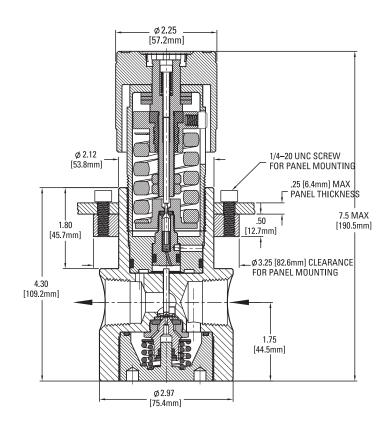
Body SS, 300 series
Seat, valve PCTFE
O-rings Fluoroelastomer / FKM

Back up ringsPTFEPTFEOther partsSS; 300 series, or PH 15-7 MoSS; 300 series, or PH 15-7 MoPoppet spring302 SS (HF option 17-7 PH)302 SS (HF option 17-7 PH)

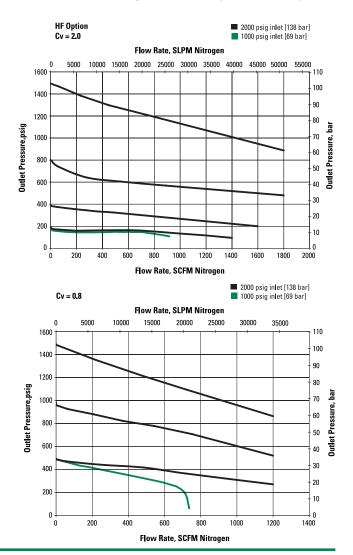
All specifications subject to change without notice.

^{**}Self relieving model vents pressure above set point to atmosphere automatically for ease of pressure adjustment and for added safety. Non-relieving model does not vent.

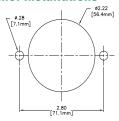
SERIES KT 12 — QUALITY, RELIABILITY & PERFORMANCE!



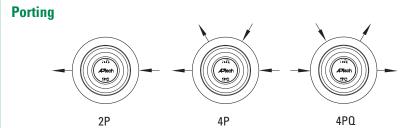
CAUTION: Product selection is the sole responsibility of the user, regardless of any recommendations or suggestions made by the factory. The user shall make selections based upon their own analysis and testing with regard to function, material compatibility and product ratings. Proper installation, operation and maintenance are also required to assure safe, trouble free performance.



Panel Installations



Panel mount cut out dimension



| ORDERING INFORMATION | | | | | | | |
|--|---|--|-----------------|-------------------|----------------------|---------------------|---|
| KT 12 | J | 1 | C | 4P | 8 | 60 20 | P |
| Series | Pressure | Relieving | Material | Ports | Connection | Gauge | Options |
| | Range | Non-Relieving | | | (Inlet/Outlet) | Source Delivery | |
| KT 12B = 5-1 | 120 psig (0.35 to 8.3 bar) | | | 2P = 2 ports | 8 = 1/2 inch NPT | 0 = No gauge | HF = High flow |
| KT 12E = 5-300 psig (0.35 to 21 bar) | | | | 4P = 4 ports | 12 = 3/4 inch NPT | 4 = 400 psig/bar | P = Panel installation** |
| KT 12G = 5-600 psig (0.35 to 41 bar) | | | | 4PQ = 4 ports | | 6 = 600 psig/bar | Note: HF option not |
| KT 12I = 10-1,000 psig (0.7 to 69 bar) | | | | | | 10 = 1,000 psig/bar | recommended for H ₂ service. |
| | , | | | | | , , , | |
| KT 12L = 25-2,500 psig (1.7 to 172 bar) | | | | | , , , | | |
| 4 0 16 11 1 4 11 1 | | | | Actuator Note: Pl | ease refer to | 60 = 6,000 psig/bar | |
| | | installation and operating instructions for | | | Gauge ports are | | |
| | | | | | 1/4 inch female NPT. | | |
| 2 = Pneumatic actuator (non-venting)* | | | to this option. | | | | |
| B = Br | ass | | | | | | |
| C = Stainless steel (SS), 300 series | | | | | | | |
| KT 12J = 15-1,500 psig (1.0 to 103 bar) KT 12L = 25-2,500 psig (1.7 to 172 bar) 1 = Self relieving (venting) 0 = Non-relieving (non-venting) 2 = Pneumatic actuator (non-venting)* B = Brass | | Pneumatic Actuator Note: Please refer to installation and operating instructions for dimensional and operating information related to this option. | | | " | | |

^{*}Pneumatic actuator is only available with G, J and L pressure ratings.

^{**}Panel mount not available with pneumatic actuator option.