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, $0.8 \text{ Cv}$
  Higher flow, HF option, $2.0 \text{ Cv}$
- High flow with high delivery pressure
- Balanced poppet design
- Pneumatic actuator option for pneumatic outlet pressure control
- Installation and operating instructions available at www.aptech-online.com in the Tech Briefs section

**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.

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)
Design proof pressure  150% of operating pressures
Design burst pressure  300% of operating pressures

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 -40º to +160ºF (-40º to +71ºC)
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)
*Source pressure for 120 psig max. delivery pressure option limited to 3500 psig (241 bar) max.

MATERIALS OF CONSTRUCTION

<table>
<thead>
<tr>
<th>MATERIAL OPTION</th>
<th>C</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body</td>
<td>SS, 300 series</td>
<td>Brass</td>
</tr>
<tr>
<td>Seat, valve</td>
<td>PCTFE</td>
<td>PCTFE</td>
</tr>
<tr>
<td>O-rings</td>
<td>Fluorocelastomer / FKM</td>
<td>Fluorocelastomer / FKM</td>
</tr>
<tr>
<td>Back up rings</td>
<td>PTFE</td>
<td>PTFE</td>
</tr>
<tr>
<td>Other parts</td>
<td>SS; 300 series, or PH 15-7 Mo</td>
<td>SS; 300 series, or PH 15-7 Mo</td>
</tr>
<tr>
<td>Poppet spring</td>
<td>302 SS (HF option 17-7 PH)</td>
<td>302 SS (HF option 17-7 PH)</td>
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</tbody>
</table>

All specifications subject to change without notice.
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 cut out dimension

Porting

KT 12 = 5-120 psig (0.35 to 8.3 bar)
KT 12E = 5-300 psig (0.35 to 21 bar)
KT 12G = 5-600 psig (0.35 to 41 bar)
KT 12I = 10-1,000 psig (0.7 to 69 bar)
KT 12J = 15-1,500 psig (1.0 to 103 bar)
KT 12L = 25-2,500 psig (1.7 to 172 bar)

<table>
<thead>
<tr>
<th>KT Series</th>
<th>J Ports</th>
<th>C Material</th>
<th>4P Ports</th>
<th>8 Connection</th>
<th>60 Source</th>
<th>20 Delivery</th>
</tr>
</thead>
<tbody>
<tr>
<td>KT 12B</td>
<td>2P</td>
<td>Non-Relieving</td>
<td>2 ports</td>
<td>1/2 inch NPT</td>
<td>0 = No gauge</td>
<td>HF = High flow</td>
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<tr>
<td>KT 12E</td>
<td>4P</td>
<td>Non-Relieving</td>
<td>4 ports</td>
<td>3/4 inch NPT</td>
<td>4 = 400 psig/bar</td>
<td>P = Panel installation**</td>
</tr>
<tr>
<td>KT 12G</td>
<td>4PQ</td>
<td>Non-Relieving</td>
<td>4 ports</td>
<td></td>
<td>6 = 600 psig/bar</td>
<td>Note: HF option not recommended for H2 service</td>
</tr>
</tbody>
</table>

*Pneumatic actuator is only available with G, J and L pressure ratings.
**Panel mount not available with pneumatic actuator option.

AP Tech has product options and variations which are not documented in data sheets. If you have a model number that is not defined by the ordering information, please consult the factory or your local representative.