**Series AK 1300 Single Stage Pressure Regulator**

**High Flow Line Regulator**

- Vacuum to 300 psig (21 bar) inlet, 150 psig (10 bar) outlet
- Flow capacity*
  1 to 1,000 slpm (0.03 to 35.3 scfm)
- Stainless Steel or Brass construction
- High leak integrity
- Machined from bar stock
- Optional accessories
- Fine adjustment control
  (six turns of the knob from off to wide open)
- Cleaned for O2 service
- Field repairable
- Diffusion resistant Ni-Cr-Mo alloy diaphragm
- Knob LOTO option
  (refer to AP KL data sheet)
- Installation and operating instructions
  available at www.aptech-online.com
  in the Tech Briefs section

**Engineering Data**

**Operating Parameters**
- Source pressure: vacuum to 300 psig (21 bar)
- Delivery pressure:
  - AK 1302: 1 to 30 psig (0.07 to 2 bar)
  - AK 1310: 2 to 100 psig (0.14 to 7 bar)
  - AK 1315: 5 to 150 psig (0.3 to 10 bar)
- Proof pressure: 150% of operating pressures
- Burst pressure: 300% of operating pressures

**Other Parameters**
- Inlet/outlet ports: 1/4", 3/8" and 1/2" NPT and compression
  (optional porting available)
- Flow coefficient (Cv): 1.1
- Internal volume: 0.65 in³ (10.6 cm³)
- Operating temperature: -40º to +160ºF (-40º to +71ºC)**
- Leak rate: 1 x 10⁻⁹ scs
- Supply pressure effect: 4.6 psig per 100 psig source pressure change

**Materials of Construction**

<table>
<thead>
<tr>
<th></th>
<th>AK 1300B</th>
<th>AK 1300S</th>
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</thead>
<tbody>
<tr>
<td>Body</td>
<td>brass</td>
<td>SS 316L</td>
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<tr>
<td>Poppet</td>
<td>SS 316</td>
<td>SS 316</td>
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<tr>
<td>Diaphragm</td>
<td>Ni-Cr-Mo alloy / UNS N06022</td>
<td>Ni-Cr-Mo alloy / UNS N06022</td>
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<tr>
<td>Seat</td>
<td>PCTFE (PTFE optional)</td>
<td>PCTFE (PTFE optional)</td>
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*Flow rating based upon N2 @ 100 psig inlet, varying gas type and, or inlet/outlet pressures will effect rating.

**VS option 14º to 194ºF (-10º to +90ºC).

**All specifications subject to change without notice.
SERIES AK 1300 — QUALITY, RELIABILITY & PERFORMANCE!

ORDERING INFORMATION

AK 1302 S 4PL 6 0 V3 P

Series
Material
Ports
Options

AK 1302 = 1-30 psig (.07 to 2 bar)
AK 1310 = 2-100 psig (.14 to 7 bar)
AK 1315 = 5-150 psig (.3 to 10 bar)

S = Stainless steel (SS)
B = Brass

NOTE: Designators required for all ports, but “0” not required if there isn’t a port. A 2P has designators only for ① & ② ports, as example AK 1310 S 2P 44 not AK 1310 S 2P 44 000.

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.

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.

NOTE: Brass only available with 4PL porting. Ports, other than 1 & 2, are only available 1/4 inch NPT.

NOTE: Designators required for all ports, but “0” not required if there isn’t a port. A 2P has designators only for ① & ② ports, as example AK 1310 S 2P 44 not AK 1310 S 2P 44 000.

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