



ADVANCED PRESSURE TECHNOLOGY

SERIES AK 1200 SINGLE STAGE PRESSURE REGULATOR TIED DIAPHRAGM—DESIGNED FOR SAFETY

- ◆ Vacuum to 1,700 psig (117 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
- ◆ Hastelloy® C-22® Internals, 'SH' option, for added corrosion resistance
- ◆ High leak integrity
- ◆ Machined from bar stock
- ◆ Poppet attached to diaphragm (tied diaphragm) improves positive shut off across the seat
- ◆ Optional accessories
- ◆ Fine adjustment control (six turns of the knob from off to wide open)
- ◆ Cleaned for O2 service
- ◆ Field repairable
- ◆ Diffusion resistant Stainless Steel diaphragm



ENGINEERING DATA

Operating Parameters

Source pressure	vacuum to 1,700 psig (117 bar) (AK 1215, 1000 psig [69 bar] max)
Delivery pressure	1 to 30 psig (0.07 to 2 bar) AK 1202 2 to 100 psig (0.14 to 7 bar) AK 1210 5 to 150 psig (0.3 to 10 bar) AK 1215 (Optional delivery pressure available)
Proof pressure	2,550 psig (176 bar)
Burst pressure	8,000 psig (552 bar)

Other Parameters

Inlet/outlet ports	1/4", 3/8" and 1/2" NPT (optional porting available)
Flow coefficient, Cv	0.9
Internal volume	0.65 in ³ (10.6 cm ³)
Operating temperature	-40 to +160F (-40 to +71C)***
Leak rate	1 x 10 ⁻⁹ sccs
Delivery pressure rise	3.5 psig per 100 psig source pressure drop

MATERIALS OF CONSTRUCTION

	AK 1200B	AK 1200S	AK 1200SH
Body	brass	SS 316	SS 316
Poppet	SS 316	SS 316	Hastelloy C-22
Diaphragm	Hastelloy C-22	Hastelloy C-22	Hastelloy C-22
Seat	PCTFE**	PCTFE**	PCTFE**

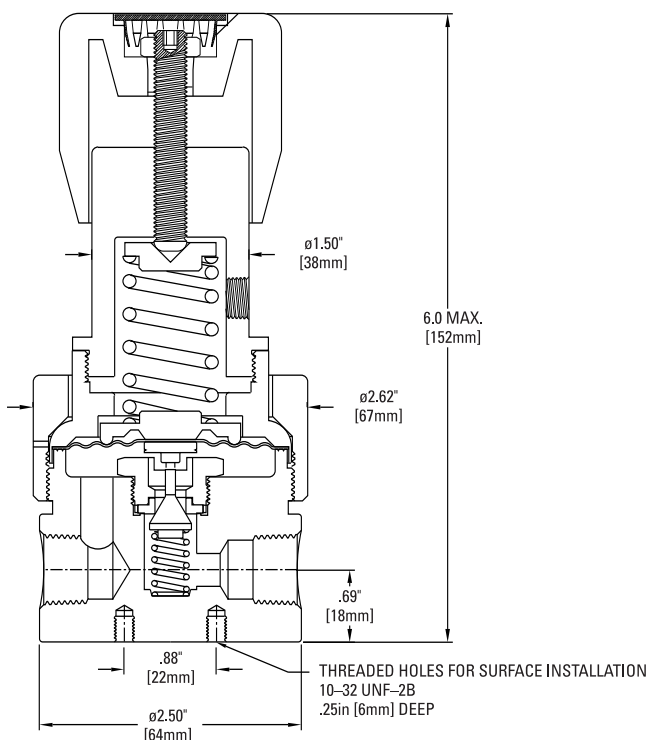
* Flow rating based upon N2 @ 100 psig inlet, varying gas type and, or inlet/outlet pressures will effect rating.

** Optional seat materials available, Vespel®.

*** Optional temperature ranges available. Please consult factory.

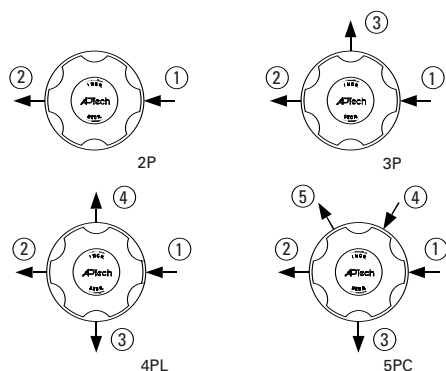
All specifications subject to change without notice.
Hastelloy® C-22® Haynes Corporation
Vespel® DuPont

SERIES AK 1200 — QUALITY, RELIABILITY & PERFORMANCE!



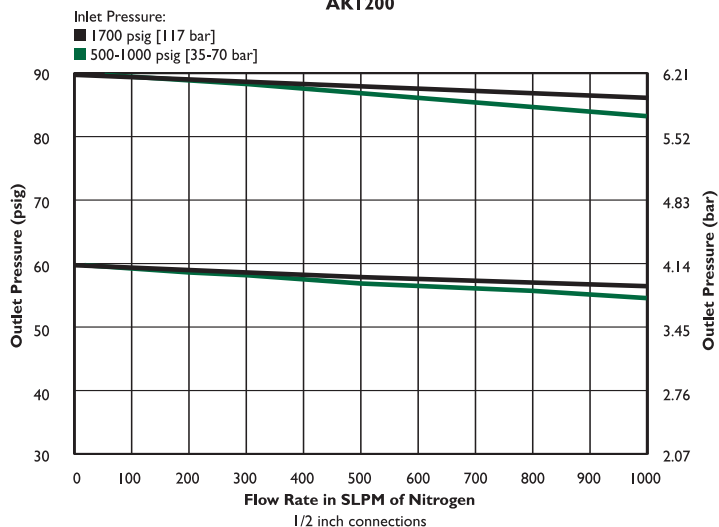
All dimensions in inches (mm).
Metric dimensions are for reference only.

Porting Configurations

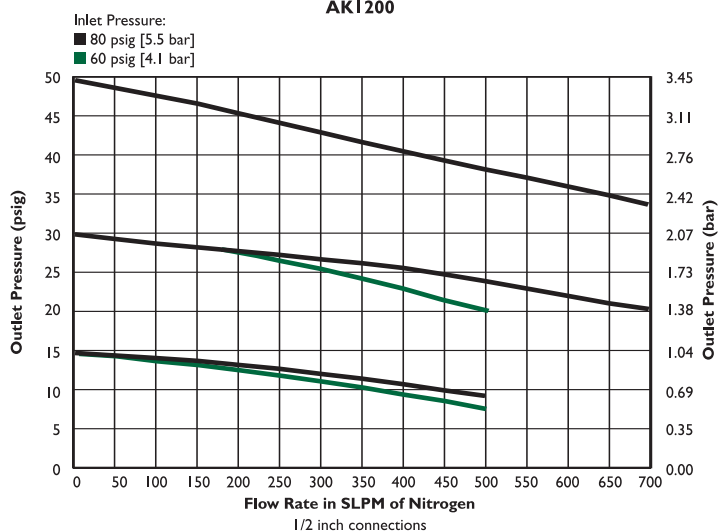


NOTE: Not all porting configurations available in brass or every connection size.
Ports, other than 1 & 2, are only available 1/4 inch NPT.

AK1200



AK1200



ORDERING INFORMATION

AK 1202 Series	S Material	4PL Ports	6 1 6 2 Ports	0 V3 3 4 5 Ports (Gauge/Accessory)	P Options
AK 1202 = 1-30 psig (.07 to 2 bar) AK 1210 = 2-100 psig (.14 to 7 bar) AK 1215 = 5-150 psig (.3 to 10 bar)		2P = 2 Ports 3P = 3 Ports 4PL = 4 Ports 5PC = 5 Ports	4 = 1/4 inch NPT 6 = 3/8 inch NPT 8 = 1/2 inch NPT	0 = No gauge or device installed V3 = 30-0-30 psig/bar 1 = 30-0-100 psig/bar 2 = 0-200 psig/bar 10 = 0-1000 psig/bar 40 = 0-4000 psig/bar	P = Panel installation CGA = Inlet fitting 320, 330, 326, 660, 678 VS = Vespel seat HF = High flow
S = Stainless steel (SS) SH = SS with Hastelloy internals 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 1210 S 2P 44 not AK 1210 S 2P 44 000.