



ADVANCED PRESSURE TECHNOLOGY

SERIES AK 9200 SINGLE STAGE REGULATOR FLOW RATES TO 2,000 SLPM (71 SCFM)

- ◆ SS 316 construction
- ◆ High performance / high flow
- ◆ Cleaned for O₂ service
- ◆ 3/4 inch port size
- ◆ Tied diaphragm design
- ◆ Vacuum to 300 psig (21 bar) inlet
- ◆ Machined from bar stock
- ◆ Diffusion resistant metal diaphragm
- ◆ Field repairable
- ◆ Installation and operating instructions available at www.aptech-online.com in the Tech Briefs section



ENGINEERING DATA

Operating Parameters

Source pressure	AK 9200	vacuum to 300 psig (21 bar)
Delivery pressure	AK 9202	1 to 30 psig (0.07 to 2 bar)
	AK 9206	2 to 60 psig (0.14 to 4 bar)
	AK 9210	2 to 100 psig (0.14 to 7 bar)
	AK 9215	5 to 150 psig (0.34 to 10 bar)
Proof pressure		450 psig (31 bar)
Burst pressure		1,500 psig (103 bar)

Other Parameters

Inlet /outlet connectors	3/4" NPT or compression
Flow coefficient, Cv	1.6
Internal volume	2.2 in ³ (36 cm ³)
Operating temperature	-40 to +160F (-40 to +71C)
Leak rate	1 x 10 ⁻⁹ sccs
Delivery pressure rise	7 psig per 100 psig source pressure drop

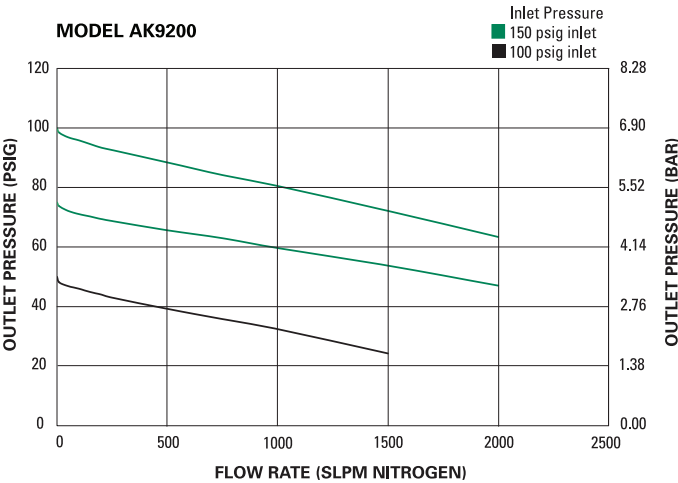
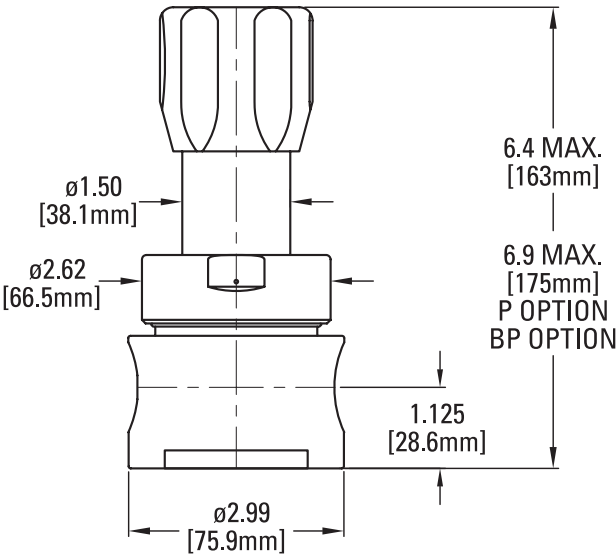
MATERIALS OF CONSTRUCTION

Body, nozzle
Poppet
Diaphragm
Seat

AK 9200 S
SS 316
SS 316
Hastelloy® C-22®
PFA

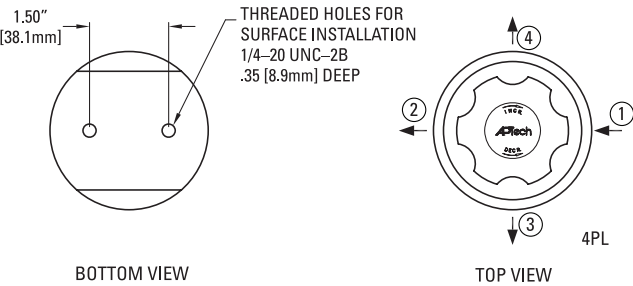
All specifications subject to change without notice.

Hastelloy® C-22® Haynes Corporation



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

Porting Configurations



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.

ORDERING INFORMATION

AK 9210 Series	S Material	4PL Ports	12 12 ① ② Ports	0 V3 ③ ④ Ports (Gauge/Accessory)	P Options
AK 9202 = 1-30 psig (0.07 to 2 bar) AK 9206 = 2-60 psig (0.14 to 4 bar) AK 9210 = 2-100 psig (0.14 to 7 bar) AK 9215 = 5-150 psig (0.34 to 10 bar)	S = Stainless steel (SS)	4PL = 4 ports	12 = 3/4 inch NPT 12T = 3/4 inch compression	0 = No gauge or device installed V3 = 30-0-30 psig/bar 1 = 30-0-100 psig/bar 2 = 0-200 psig/bar NOTE: Designations required for all four ports.	P = Panel installation* BP = Bonnet vent port *Panel hole 1.56" diameter.