

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** ٠
- 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
- Installation and operating instructions available at www.aptech-online.com in the Tech Briefs section



ENGINEERING DATA

Operating Parameters

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Source pressure	vacuum to 300 psig (21 bar)		
Delivery pressure	1 to 30 psig (0.07 to 2 bar) AK 1302		
	2 to 100 psig (0.14 to 7 bar) AK 1310		
	5 to 150 psig (0.3 to 10 bar) AK 1315		
Proof pressure	450 psig (31 bar)		
Burst pressure	1,200 psig (83 bar)		
Other Parameters			
Inlet /outlet ports	1/4", 3/8" and 1/2" NPT and		
	compression		
	(optional porting available)		
Flow coefficient (Cv)	1.1		
Internal column	0.05 := 3 (10.0 3)		

Internal volume Operating temperature

Leak rate Supply pressure effect 0.65 in³ (10.6 cm³) -40 to +160F (-40 to +71C)

1 x 10⁻⁹ sccs 4.6 psig per 100 psig source pressure change

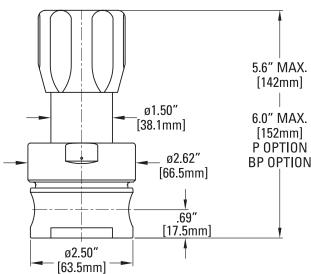
MATERIALS OF CONSTRUCTION

Body Poppet Diaphragm Seat

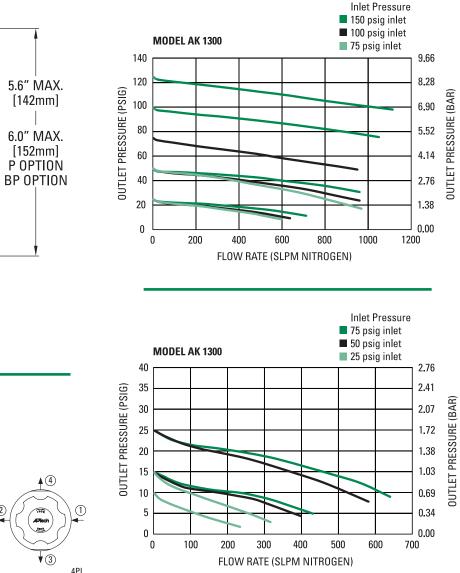
AK 1300B brass SS 316 Ni-Cr-Mo alloy / UNS N06022 PCTFE

AK 1300S SS 316 SS 316 Ni-Cr-Mo alloy / UNS N06022 PCTFE

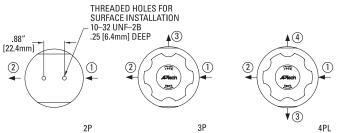
*Flow rating based upon N2 @ 100 psig inlet, varying gas type and, or inlet/outlet pressures will effect rating. All specifications subject to change without notice.



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



Porting Configurations



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

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 1302	S	4PL	66	0 V3	P			
Series	Material	Ports	1 2	3 4	Options			
			Ports	Ports (Gauge/Accessory)				
AK 1302 = 1-30 psig (.07 to 2 bar)		2P = 2 Ports	4 = 1/4 inch NPT	0 = No gauge or	P = Panel installation*			
AK 1310 = 2-100 psig (.14 to 7 bar)		3P = 3 Ports	6 = 3/8 inch NPT	device installed	BP = Threaded Bonnet			
AK 1315 = 5-150 psig (.3 to 10 bar)		4PL = 4 Ports	8 = 1/2 inch NPT	V3 = 30-0-30 psig/bar	Port			
			4T = 1/4 inch comp	1 = 30-0-100 psig/bar				
			6T = 3/8 inch comp	2 = 0.200 psig/bar				
S = Stainless steel (SS)			8T = 1/2 inch comp	1 0.				
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.								
example An 1510 5 27 44 HIOL AN 1510 5 27 44 000. *No nonal mount ontion honnet nort is not threaded Panel hole 1 56 inch diameter								