

SERIES AK 100 SINGLE STAGE PRESSURE REGULATOR COMPACT DESIGN FOR INSTRUMENTATIONS

- Vacuum to 3,000 psig (207 bar) inlet, 150 psig (10 bar) outlet
- Flow capacity* to 30 slpm (1 scfm)
- Stainless Steel 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 Stainless Steel diaphragm
- Installation and operating instructions available at <u>www.aptech-online.com</u> in the Tech Briefs section



ENGINEERING DATA

Operating Parameters

Source pressure AK 101 Delivery pressure AK 101A AK 101 AK 102 AK 110 AK 115 Proof pressure Burst pressure

vacuum to 300 psig (21 bar) max 100 mm Hg absolute to 10 psig (0.7 bar) 0.5 to 10 psig (0.03 to 0.7 bar) 1 to 30 psig (0.07 to 2 bar) 2 to 100 psig (0.14 to 7 bar) 5 to 150 psig (0.2 to 10 bar) 150% of maximum rating 300% of maximum rating

vacuum to 3,000 psig (207 bar)

Other Parameters

Inlet /outlet ports

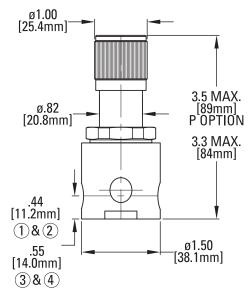
Flow coefficient, Cv Internal volume Operating temperature Leak rate Supply pressure effect $\label{eq:linear_line$

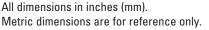
MATERIALS OF CONSTRUCTION

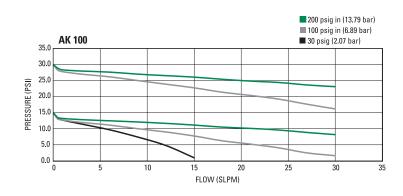
AK 100S SS 316L SS 316 PCTFE (Polyimide opt) SS 303

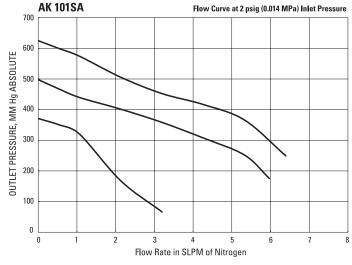
* Flow rating based upon N2 @ 100 psig inlet, varying gas type and, or inlet/outlet pressures may effect rating. All specifications subject to change without notice.

Products and service that exceed expectations

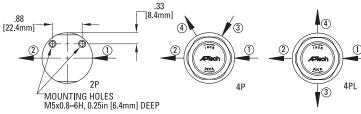








Porting Configurations



4PL available 1/8 and 1/4 inch. 4P only available 1/4 inch. Ports 3 and 4 always 1/8 inch.

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 102	S	4PL	4 4	0 0	P	
	Series	Material	Port	1 2	3 4	Options	
			Configuration	Ports	Ports (Accessory)		
	AK 101 = 0.5-10 psig (.03 to .7 bar)		4P = 4 Ports	2 = 1/8 inch NPT	0 = No accessory	P = Panel installation*	
	AK 102 = 1-30 psig (.07 to 2 bar)		4PL = 4 Ports	4 = 1/4 inch NPT	installed	VS = Polyimide seat	
	AK 110 = 2-100 psig (.14 to 7 bar)			4T = 1/4 inch			
	AK 115 = 5-150 psig (.2 to 10 bar)			compression	Gauges not available.	*Refer to installation and operating instructions for panel mounting.	
S = Stainless steel (SS) SA = Stainless steel (SS) absolute outlet range			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 101 S 2P 44 not AK 101 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.