

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
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Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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Find the *AP Tech AP1510S* at our website: ***Click HERE***

APTech
ADVANCED PRESSURE TECHNOLOGY



SERIES AP 1500

TIED DIAPHRAGM REGULATOR

Low Flow — High Pressure

- Single stage
- Hastelloy® alloy C-22® or SS 316L VAR secondary remelt construction
- Cleaned, assembled and packaged for high purity semiconductor applications
- 15 µin. surface finish (10, 7 and 5 µin. opt)
- Vacuum to 3,500 psig (241 bar) inlet
- No threads in contact with fluid media
- Industry standard for cylinder applications
- Installation and operating instructions available at www.aptech-online.com in the Tech Briefs section

Operating Parameters

Source pressure		vacuum to 3,500 psig (241 bar)
Delivery pressure	AP 1502	1 to 30 psig (0.07 to 2 bar)
	AP 1506	2 to 60 psig (0.14 to 4 bar)
	AP 1510	2 to 100 psig (0.14 to 7 bar)
Proof pressure		5,000 psig (345 bar)
Burst pressure		10,000 psig (690 bar)

Other Parameters

Inlet/outlet connectors	1/4 or 3/8 inch face seal or tube weld
Bonnet port	1/8 inch NPT
Flow coefficient (Cv)	0.09
Internal volume	0.51 in^3 (8.4 cm^3)
Operating temperature	-40° to +160°F (-40° to +71°C)
Surface finish	15 µin. (0.4 µm) Ra max standard; 10 µin (0.25 µm); 7 µin (0.18 µm); and 5 µin (0.13 µm) optional
Inboard leakage	2 x 10^{-10} sccs
Outboard leakage	2 x 10^{-9} sccs He at 1,500 psig inlet pressure
Leakage across seat	4 x 10^{-8} sccs He at 1,000 psig inlet pressure
Installation	surface or panel (optional)
Delivery pressure rise	0.25 psig per 100 psig source pressure drop

Materials

Type of Service	Series AP 1500 S Noncorrosive	Series AP 1500 SH Corrosive	Series AP 1500 H Corrosive
Wetted Parts			
Body	SS 316L secondary remelt	SS 316L secondary remelt	Hastelloy alloy C-22
Poppet, nozzle, diaphragm	SS 316L	Hastelloy alloy C-22	Hastelloy alloy C-22
Finish	electropolished and passivated	electropolished and passivated	electropolished
Seat	PCTFE (Vespel® optional)	PCTFE	PCTFE

All specifications subject to change without notice.

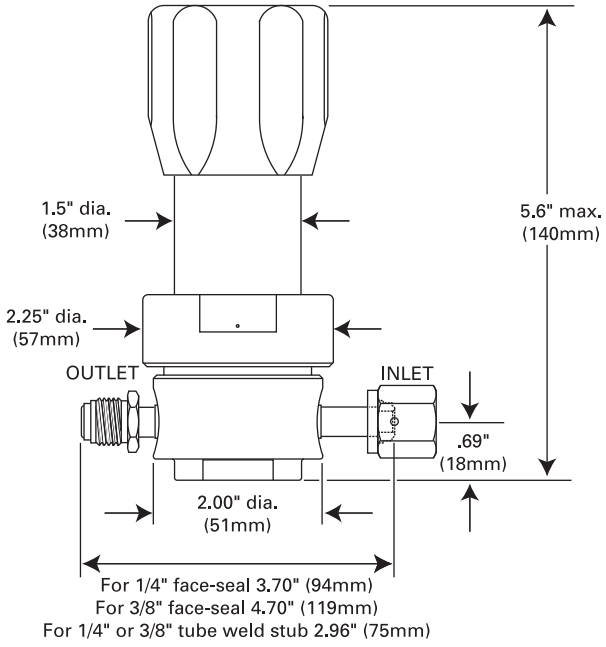
Hastelloy® C-22® Haynes Corporation Vespel® DuPont

ENGINEERING DATA — SERIES AP 1500 TIED DIAPHRAGM REGULATOR

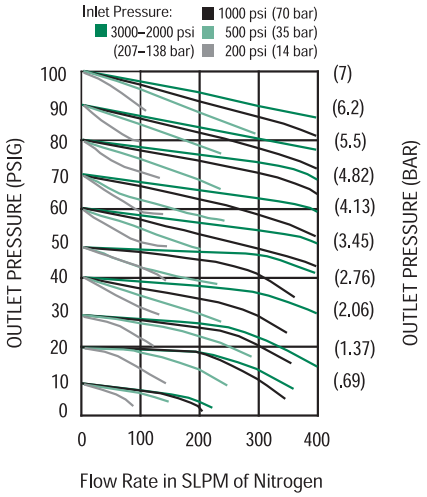
Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

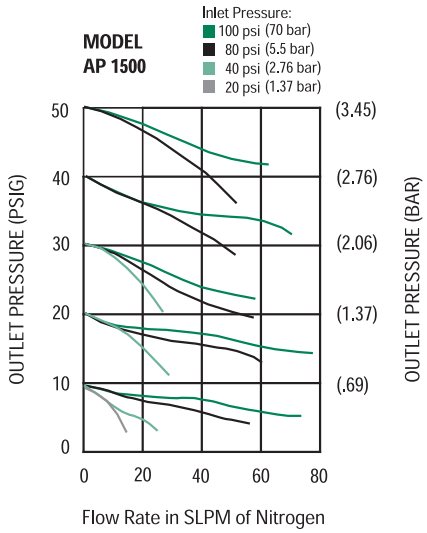
ULTRACLEAN TECHNOLOGY BACKED BY SERVICE AND SUPPORT

DIMENSIONAL INFORMATION

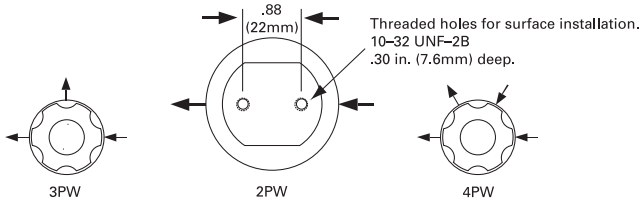


All dimensions in inches (mm). Metric dimensions are for reference only.





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

Sample Order Number — **AP 1510SM 4PW FV4 FV4 40 1 P**

AP 1510 | Series
- AP 1502 = 1-30 psig (.07 to 2 bar)
- AP 1506 = 2-60 psig (.14 to 4 bar)
- AP 1510 = 2-100 psig (.14 to 7 bar)

S | Material
- S = Stainless steel (SS)
- SH = SS/Hastelloy internals
- H = Hastelloy alloy C-22

M | Surface Finish Options
- M = 10 µin. Ra max
- V = 7 µin. Ra max
- X = 5 µin. Ra max

4PW | Ports
- 2PW = 2 ports butt weld
- 3PW = 3 ports butt weld
- 4PW = 4 ports butt weld

FV4 FV4 | Connections Inlet / Outlet
- FV4 = 1/4 inch face seal female
- MV4 = 1/4 inch face seal male
- FV6 = 3/8 inch face seal female
- MV6 = 3/8 inch face seal male

Tube weld stub available

40 1 | Gauges* Source / Delivery
- 0 = No gauge
- V3 = 30-0-30 psig/bar
- L = 30-0-60 psig/bar
- 1 = 30-0-100 psig/bar
- 2 = 0-200 psig/bar
- 4 = 0-400 psig/bar
- 10 = 0-1000 psig/bar
- 40 = 0-4000 psig/bar

* Standard gauge ports are 1/4 inch face seal male (1/4 inch female available).

P | Options
- P = Panel installation**
- VS = Vespel seat

** On panel mount option, bonnet port is not threaded. Panel hole 1.56″ diameter.

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We buy equipment

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Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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