

SERIES AZ 1200

SINGLE STAGE REGULATOR

Flow Rates to 1,500 SLPM (52 scfm)



- Stainless steel 316L construction
- High performance
- High flow with low particle generation
- Flow rates
 - standard to 800 slpm (28 scfm)
 - HF option to 1,000 slpm (35 scfm)
 - FC option to 1,500 slpm (52 scfm)
- Vacuum to 1,700 psig (117 bar) inlet
FC Option – vacuum to 300 psig (21 bar)
- Regulator of choice for bulk gas point of use applications

Operating Parameters

| | | |
|-------------------|------------|---|
| Source pressure | AZ 1200 | vacuum to 1,700 psig (117 bar) |
| | AZ 1215 | vacuum to 1,000 psig (69 bar) |
| | AZ 1200 FC | vacuum to 300 psig (21 bar) |
| Delivery pressure | AZ 1202 | 1 to 30 psig (0.07 to 2 bar) (not available for FC) |
| | AZ 1206 | 2 to 60 psig (0.07 to 4 bar) (not available for FC) |
| | AZ 1210 | 2 to 100 psig (0.14 to 7 bar) |
| | AZ 1215 | 5 to 150 psig (0.34 to 10 bar) |
| Proof pressure | | 2,550 psig (176 bar) |
| Burst pressure | | 8,000 psig (552 bar) |

Other Parameters

| | |
|-------------------------|---|
| Inlet/outlet connectors | 1/4, 3/8, 1/2 inch face seal or tube weld |
| Flow coefficient (Cv) | 0.9 (FC = 0.65, HF = 1.1) |
| Internal volume | 1.07 in ³ (17.6 cm ³) |
| Operating temperature | -40° to +160°F (-40° to +71°C) |
| Surface finish | 10 µin. (0.25 µm) Ra avg. |
| 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 | 3.5 psig per 100 psig source pressure drop |
| HF & FC | 4.2 psig per 100 psig source pressure drop |

Materials

| | Series AZ 1200 S |
|----------------------|--------------------------------|
| Type of Service | Noncorrosive |
| Wetted Parts | |
| Body, poppet, nozzle | stainless steel 316L** |
| Diaphragm | Hastelloy® C-22® |
| Finish | electropolished and passivated |
| Seat | PCTFE (Vespel® optional)* |

All specifications subject to change without notice.

Higher temperature ratings available. Please consult factory.

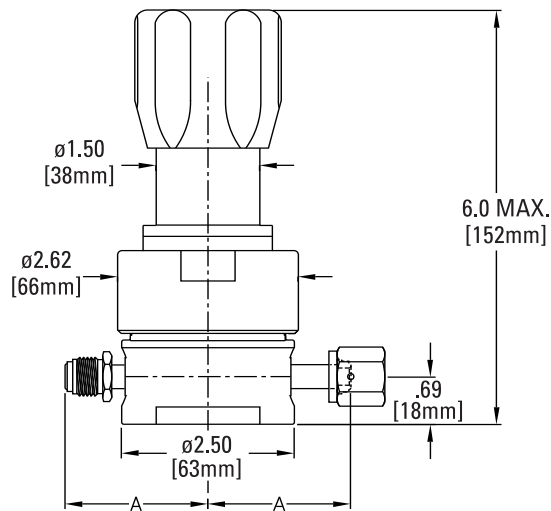
* Vespel not available for the FC option.

** Please refer to product note regarding single melt 316L SS material.

Hastelloy® C-22® Haynes Corporation Vespel® DuPont

SERVICE AND SUPPORT BEYOND COMPARE

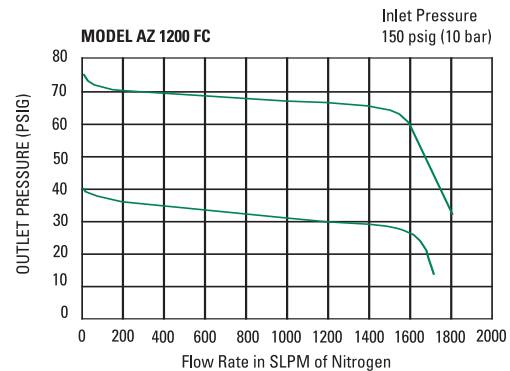
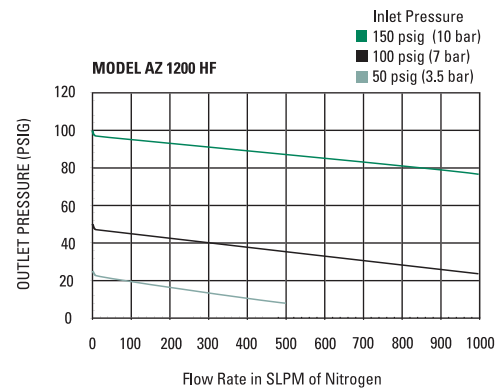
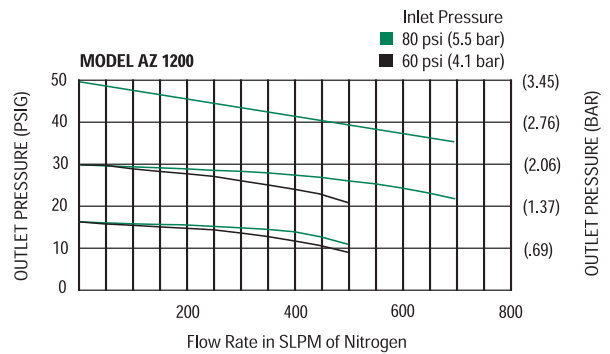
DIMENSIONAL INFORMATION



| Face Seal | A | |
|------------|------------|----|
| | in | mm |
| 1/4" | 2.15" ±.01 | 55 |
| 3/8", 1/2" | 2.61" ±.02 | 66 |

All dimensions in inches (mm).

PORTING CONFIGURATIONS



ORDERING INFORMATION

Sample Order Number **AZ 1202SM 3PW FV8 FV8 V3 FC**

AZ 1202 | Series

AZ 1202 = 1-30 psig (.07 to 2 bar)
AZ 1206 = 2-60 psig (.14 to 4 bar)
AZ 1210 = 2-100 psig (.14 to 7 bar)
AZ 1215 = 5-150 psig (.34 to 10 bar)

S | Material

S = Stainless steel

3PW | Ports

2PW = 2 ports butt weld face seal
3PW = 3 ports butt weld face seal

FV8 FV8 | 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
FV8 = 1/2 inch face seal female
MV8 = 1/2 inch face seal male

Tube weld stub available
"FC" option only available with 1/2" connectors

V3 | Delivery Gauge*

0 = No gauge
V3 = 30-0-30 psig/bar
L = 30-0-60 psig/bar
1 = 30-0-100 psig/bar
H = 30-0-160 psig/bar

* Standard gauge port is 1/4 inch
face seal male (1/4 inch female available).

FC | Options

HF = High Flow
FC = Force Compensation
P = Panel installation ring**
VS = Vespel seat

** Panel hole 1.56" diameter.