

APR-66 Series

Pressure Reducing Regulator



The APR-66 Series is a high pressure reducing single-stage regulator designed to operate at inlet pressures up to 6000 psig.

applications

- ▶ High pressure gas cylinders.
- ▶ Test stands.
- ▶ Pilot regulator for dome loading.



features

- ▶ Piston sensing.
- ▶ Thrust bearing allows low actuating torque and precise setability.
- ▶ Optional self relieving feature allows user to decrease outlet pressure in closed systems (feature is actuated by turning the adjusting knob counterclockwise).
- ▶ Low friction adjusting screw sleeve provides smooth operation.

NOTE: For safety purposes, the optional self relieving feature is not recommended for toxic or flammable gases or liquids.

materials of construction

Wetted

Body 316L Stainless Steel
Nickle Plated Brass
Seat PEEK
Seals Aflas®, Teflon® and PCTFE (formerly Kel-F81®)
Piston Torlon

Non-Wetted

Cap Nickel plated brass
Cap nut 316 L Stainless Steel
Adjusting stem sleeve PEEK
Knob 6061 T6 Aluminum

operating conditions

Inlet pressure 6000 psig (414 barg)
Outlet pressure 0-1000 psig (69 barg)
0-2000 psig (138 barg)
0-3000 psig (207 barg)
0-6000 psig (414 barg)
Temperature -40°F to 165°F (-40°C to 74°C)

functional performance

Design proof pressure 9000 psig (620 barg)
Design burst pressure 18000 psig (1241 barg)
Flow capacity C_v 0.05
(ANSI/ISA S75.02 1988 using water)
Supply pressure effect 4 psig per 100 psig
(.28 barg per 7 barg) for 0-1000, 2000 & 3000 psig
ranges (69, 138 & 207 barg)
6 psi per 100 psig (.4 barg per 7 barg)
for 0-6000 psig (419 barg) range
Leakage Bubble tight
Flow See curves

standard connections

1/8", 1/4" female pipe threads MS 33649 or DIN ISO 228/1

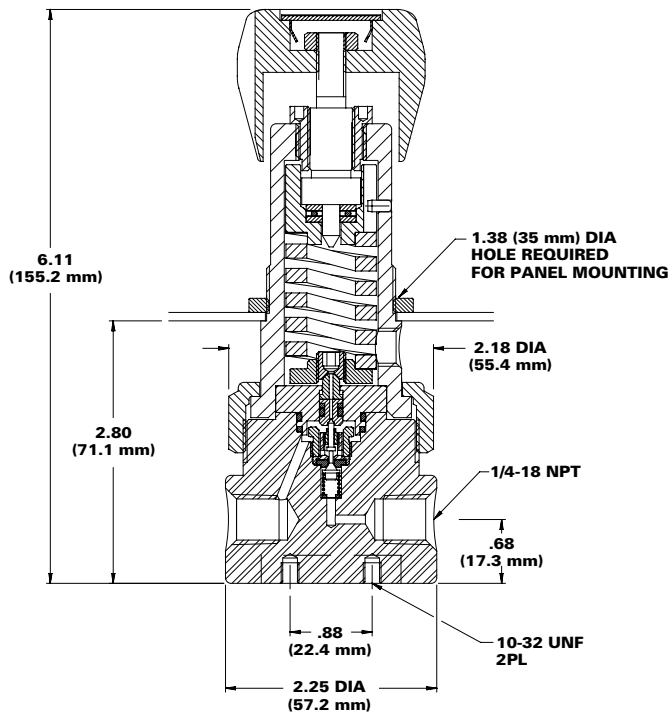
approximate weight

3.0 lbs (1.4 kg)



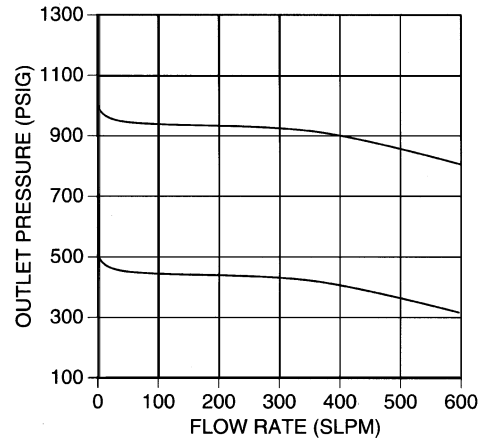
APR-66 Series

Cross Sectional Drawing

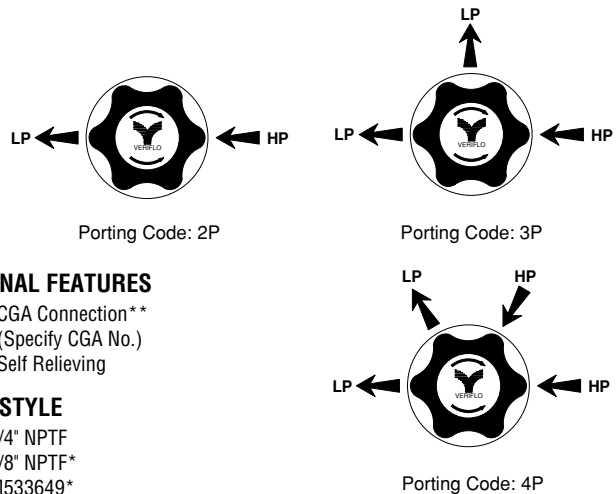


Flow Curve

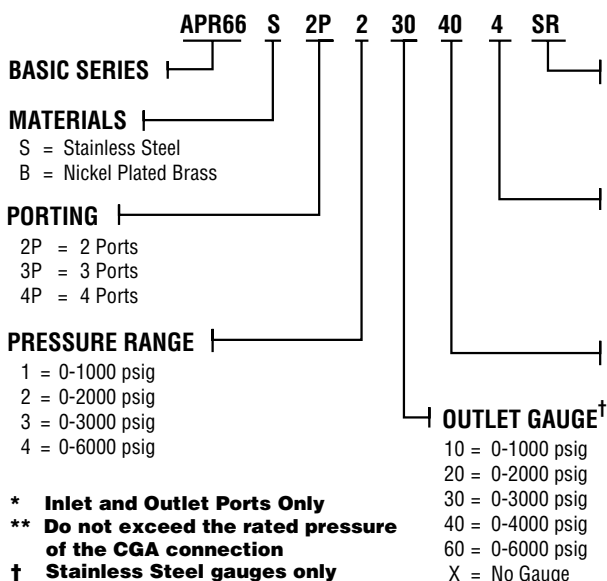
APR-66, 0-2000 psig range, Air, 1000 and 500 psig outlet settings



Porting Configurations



Ordering Information



OPTIONAL FEATURES

CGA = CGA Connection**
 (Specify CGA No.)
 SR = Self Relieving

PORT STYLE

4 = 1/4" NPTF
 2 = 1/8" NPTF*
 MS = M533649*
 D = DIN ISO 228/1*

INLET GAUGE†

40 = 0-4000 psig
 60 = 0-6000 psig
 X = No Gauge

Note: All units are standard with threaded caps (bonnets) and nuts for panel mounting

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Parker Hannifin Corporation

Veriflo Division
 250 Canal Boulevard, P.O. Box 4034
 Richmond, CA 94804-0034
 Phone (510) 235-9590 • Fax (510) 232-7396

