

# APR66 Series

Single Stage, High Pressure Regulator  
Pressure Reducing, Stainless Steel or Brass



## Value Proposition:

The APR66 Series is a high pressure reducing, single-stage regulator designed to operate at inlet pressures up to 6000 psig.

The APR66 offers a full range of pressure sensing without time consuming spring and piston change outs.



## Contact Information:

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## Product Features:

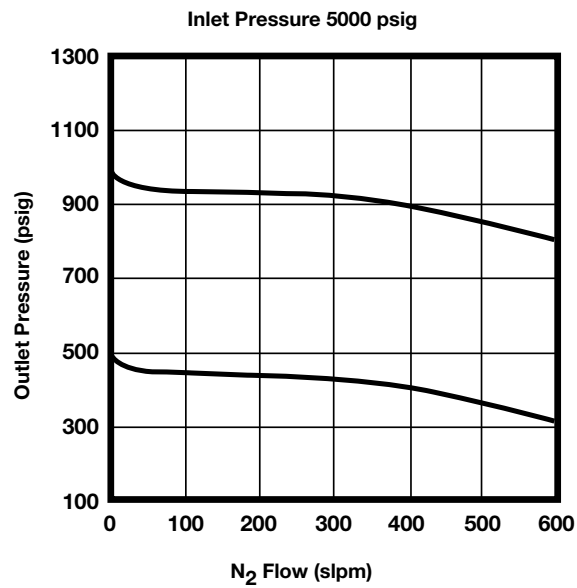
- Piston sensing
- Thrust bearing allows low actuating torque and precise setability
- Cleaned for O<sub>2</sub> service is standard
- Low friction adjusting screw sleeve provides smooth operation
- Optional self relieving feature allows user to decrease outlet pressure in closed systems. Feature is actuated by turning the adjusting knob counterclockwise



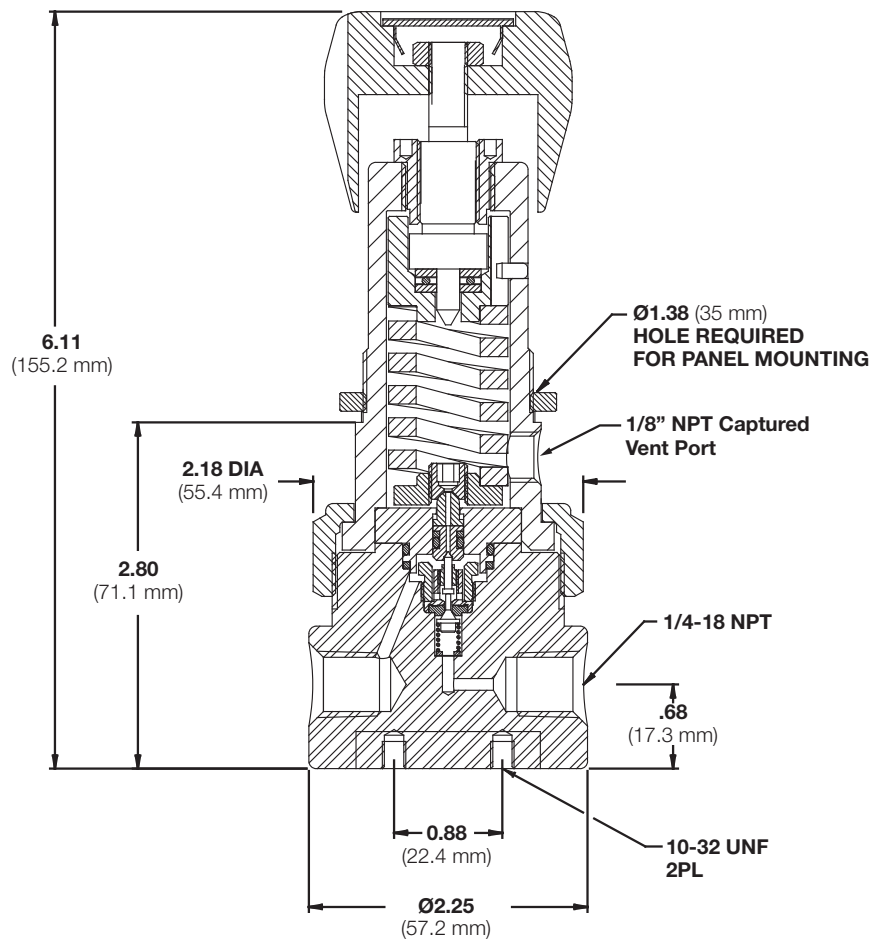
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## Flow Curve



## Dimensional Drawing



Safety Guide and Installation and Operating Instructions available at  
[www.parker.com/veriflo](http://www.parker.com/veriflo)

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## Ordering Information

Build an APR66 Series regulator by replacing the numbered symbols with an option from the corresponding tables below.

Color Explanations: Black = Standard Lead Time Configurations  
Blue = Extended Lead Time Configurations  
Green *Italic* = Express Service Program (ESP)

For an explanation of Ordering options please reference literature 25000275 at [www.parker.com/veriflo](http://www.parker.com/veriflo)

Sample: **APR66**    **S**    **4P**    **1**    **X**    **X**    **4**    **M**    **320**  
Finished Order: **APR66S4P1XX4M320**

**1** **Body Material**  
B = Nickel Plated Brass  
S = 316L Stainless Steel

**2** **Porting**  
2P = 2 Ports *No X required for gauges, inlet & outlet ports only*  
3P = 3 Ports *One X for gauge port*  
4P = 4 Ports *Two X's for gauge ports*  
*See Regulator Porting Guide for additional options and port layouts*

**3** **Pressure Range**  
1 = 100 - 1000 psig  
2 = 100 - 2000 psig  
3 = 100 - 3000 psig  
4 = 100 - 6000 psig

**4** **Outlet Gauge**  
10 = 0 - 1000 psig  
20 = 0 - 2000 psig  
30 = 0 - 3000 psig  
40 = 0 - 4000 psig  
60 = 0 - 6000 psig  
X = No Gauge  
*Additional ranges available upon request*

**5** **Inlet Gauge**  
40 = 0 - 4000 psig  
60 = 0 - 6000 psig  
X = No Gauge  
*Additional ranges available upon request*

**6** **Port Style**  
2 = 1/8" NPT Female  
4 = 1/4" NPT Female  
D = DIN ISO 228/1 *Inlet and Outlet Ports Only*  
MS = MS33649 *Inlet and Outlet Ports Only*  
*All Gauge ports are 1/4" NPT Female*

**7** **Optional Features**  
This section can have multiple options  
B = Buna-N Seal  
M = Metal Knob (Black) *Required for temperatures above 150° F*  
SR = Self Relieving *For safety purposes, the optional self-relieving feature is not recommended for toxic or flammable gases or liquids.*

**Note:** *Each unit is standard with a threaded cap and panel mount nut.*

**8** **CGA#**  
320, 330, 350, 510, 580, 590 or 660 *CGA 660 not available in brass*  
*Do not exceed the rated pressure of the CGA connection.*

Additional configurations available upon request

**Note:** Veriflo reserves the right to plug NPT ports. If a true ported body is required, please contact Customer Service.

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## Specifications

Materials of Construction	
<b>Wetted</b>	
Body Options	316L Stainless Steel (std) or Nickel Plated Brass
Poppet	316L Stainless Steel
Spring	Hastelloy C-22®
Seat	PEEK™
Seat & Screw Clamp	316L Stainless Steel
Plug & Screw	316L Stainless Steel
Piston	Torlon
Piston Housing	316L Stainless Steel
Stem	316L Stainless Steel
Seals	Aflas®, PTFE and PCTFE
<b>Non-wetted</b>	
Cap	Nickel Plated Brass
Nut	316L Stainless Steel
Knob Options	ABS (std) or Aluminum

For additional information on materials of construction, functional performance and operating conditions, please see Regulator Technical Bulletin.

Functional Performance	
<b>Design</b>	
Burst Pressure	18,000 psig (1,241 barg)
Proof Pressure	9,000 psig (620 barg)
<b>Flow Capacity</b>	C <sub>v</sub> 0.05
<b>Leak Rate</b>	
Internal	Bubble Tight
External	Bubble Tight
<b>Supply Pressure Effect</b>	
100 - 1,000 psig	4 psig/100 psig (0.28 barg/7 barg)
100 - 2,000 psig	4 psig/100 psig (0.28 barg/7 barg)
100 - 3,000 psig	4 psig/100 psig (0.28 barg/7 barg)
100 - 6,000 psig	6 psig/100 psig (0.4 barg/7 barg)
<b>Approx. Weight</b>	3.0 lbs. (1.4 kg)
<b>Operating Conditions</b>	
Maximum Inlet	6,000 psig (414 barg)
Outlet Options	100 - 1,000 psig (69 barg)
	100 - 2,000 psig (138 barg)
	100 - 3,000 psig (207 barg)
	100 - 6,000 psig (414 barg)
Temperature	Metal Knob required for temperatures above 150°F
	-40°F to 165°F (-40°C to 74°C)

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Hastelloy C-22® is a registered trademark of Haynes International, Inc.  
PEEK™ is a trademark of Victrex plc.

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