



COM Series Back Pressure Regulator



Thomas & Brian | INNOVATE . TEST . DELIVER

COM Series

Compact Back Pressure Regulator

Features

- Economical, compact design
- Piston sensed design is safe and reliable
- Available in a Stainless Steel or Brass design
- Optional gauge ports and panel mounting
- Flow capacity $C_v = 0.10$
- Low handknob torque for easy operation
- Bubble-tight shutoff at all reseating pressures

Applications

- Industrial equipment for hydraulic or pneumatic service

Construction Detail

Body 316 Stainless Steel

Main Valve Seat Modified PTFE
(other materials are available)

O-Rings Viton®, NBR (Nitrile), Buna-N, Ethylene Propylene, FFKM, Kalrez®

Remaining Parts 316 Stainless Steel
*Material Can Vary Per Application Or Requirement

Operating Parameters

Pressure rating per criteria of ANSI/ASME B31.3

Maximum Inlet Pressure

1,500 psig / 103 bar

Outlet Pressure Ranges

Psig

0-10, 0-25, 0-50, 0-100, 0-250, 0-500, 0-750, 0-1000,
0-1500

Bar

0-0.68, 0-1.72, 0-3.45, 0-6.9, 0-17.24, 0-34.5, 0-51.7,
0-70, 0-103

Ambient Operating Temperature

-15°F to 165°F / -26°C to 74°C

Flow Capacity

$C_v = 0.1$

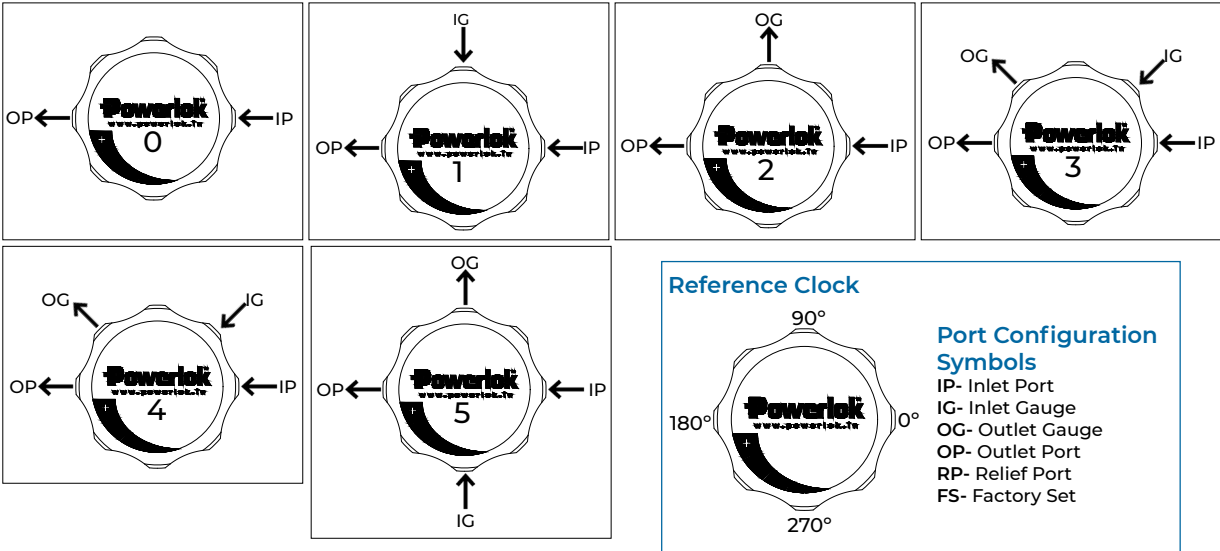
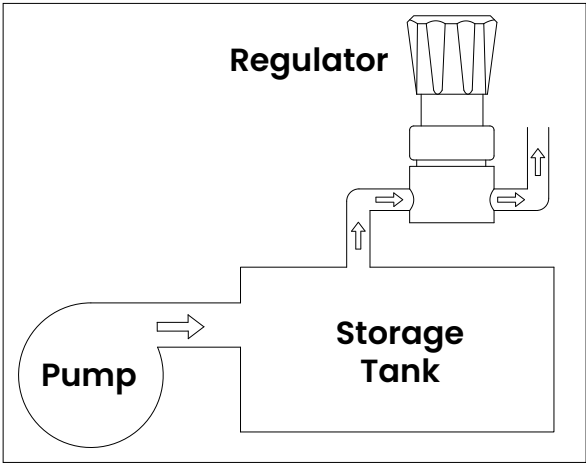
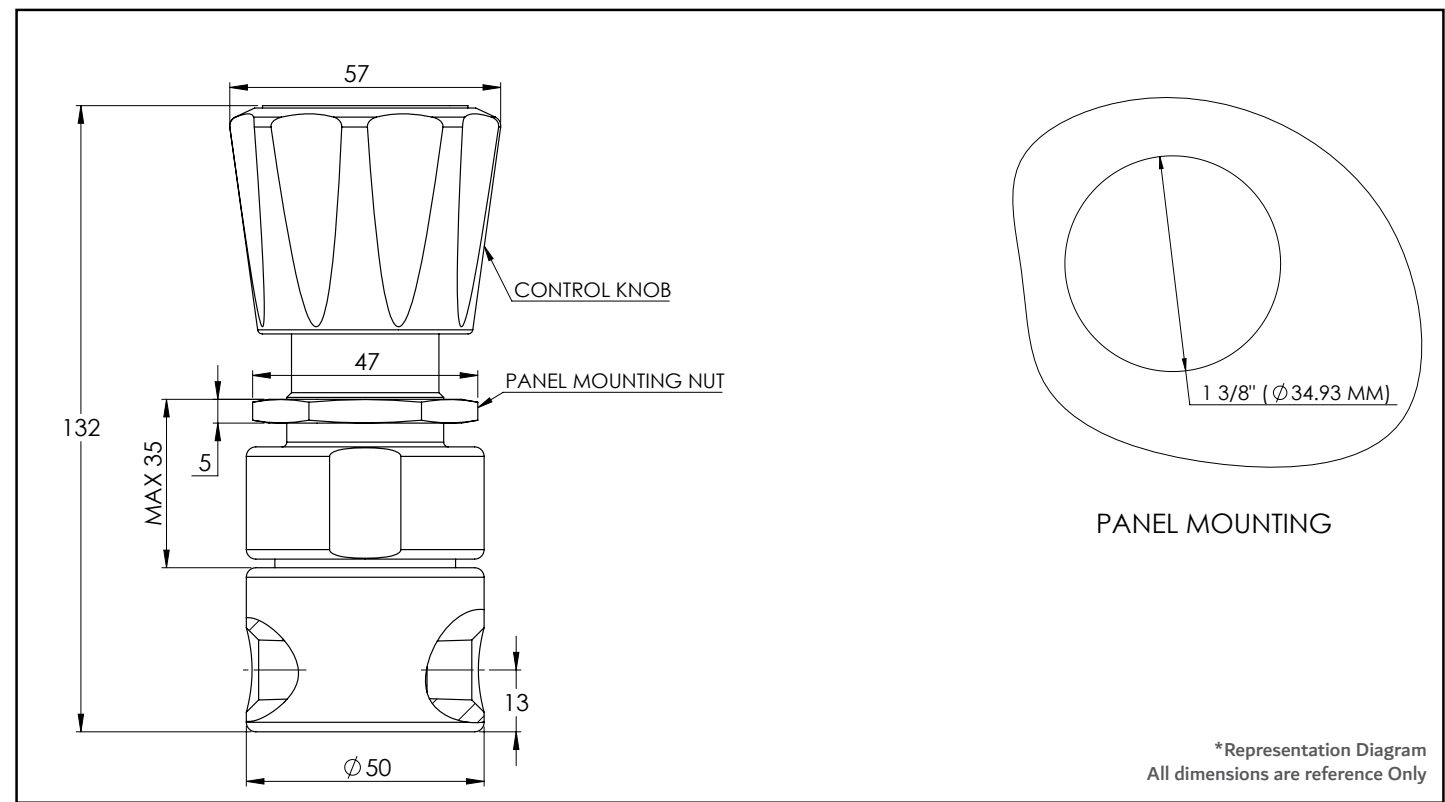
Leakage Rate

Bubble Tight Shutoff



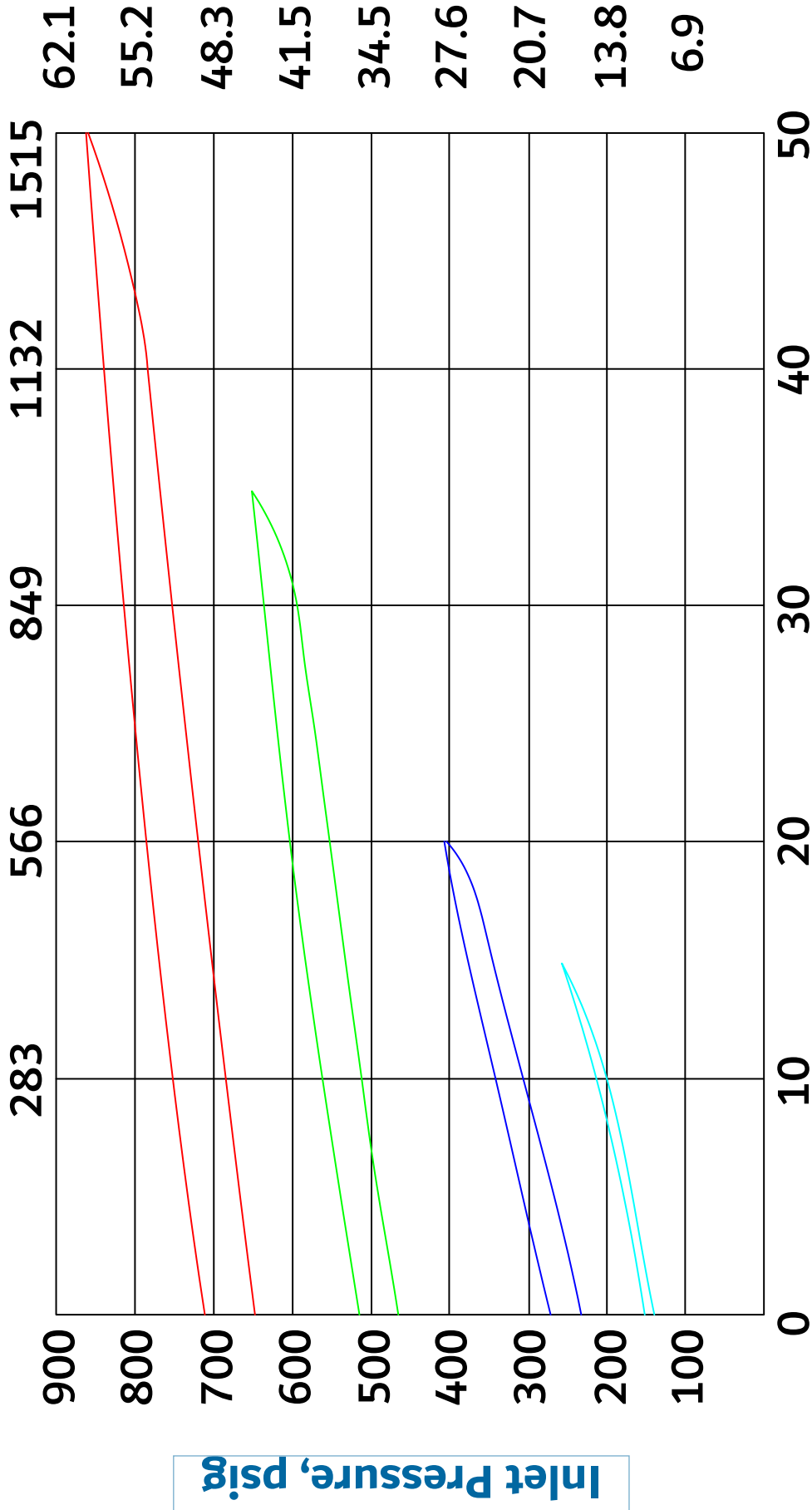
Dimension

Dimensions, in millimeters, are for reference only and are subject to change.



Flow Curve

Flow, SLPM (Air)

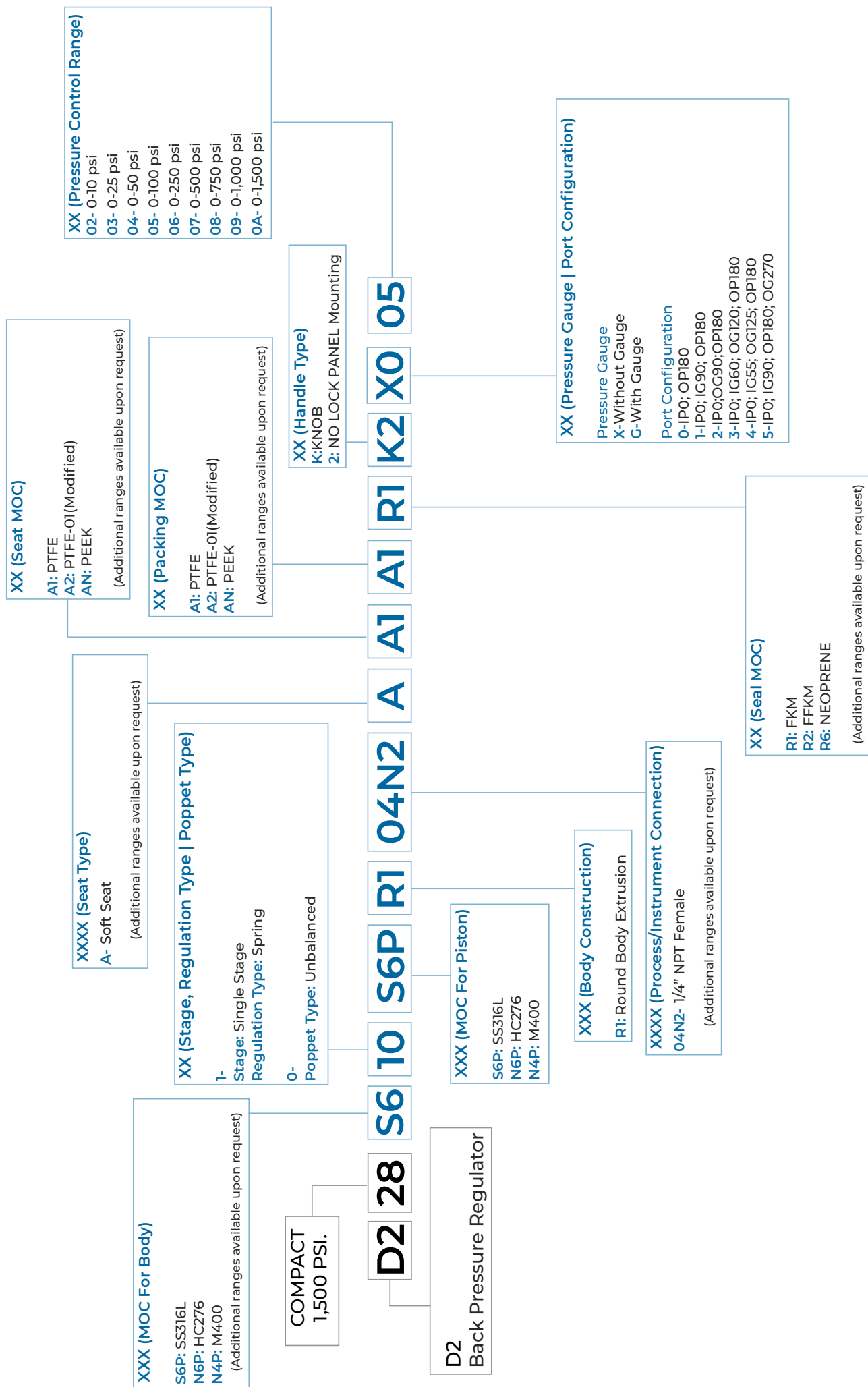


Inlet Pressure, bar

Flow, SCFM (Air)

Inlet Pressure, psia

Ordering Information



Options & Accessories

Pressure Gauges

Pressure Gauges are used to provide the measure of pressure at both inlet and outlet. Powerlok Regulators does offer pressure gauge ports for better measurement of the pressure.

To order the Pressure Gauge please refer to the ordering information provided on page no. 5., The maximum gauge pressures are appropriate for the maximum inlet pressure and/or control pressure ordered.



Cleaning

Gauges assembled to ASTM G93 Level E or SC-11-cleaned regulators are cleaned in accordance with ASTM B40.1 level IV.

Valves & Filter Options

Powerlok Regulator has port provided for isolation, relief and purge valves. for ordering as well as specification of the valves please refer following.

Isolation Valve:

Powerlok Isolation Valve will be used to stop the flow of the gas for either of the inlets given on which side it is connected, this is usually done during maintenance or for safety purposes.

to order the isolation valve add the following designator in the given ordering information on page no. 5.

Purge Valve:

Powerlok purge Valve will be used to stop the flow of the gas for either of the inlets given on which side it is connected, this is usually done during maintenance or for safety purposes

to order the isolation valve add the following designator in the given ordering information on page no. 5.

Sr. No.	Valve Type	Designator
01	Needle Valve	IA2
02	Ball Valve	IA1

Sr. No.	Valve Type	Designator
01	Needle Valve	PA2
02	Ball Valve	PA1

*For other options of the isolation valve contact your trusted powerlok representative

Relief Valve:

Powerlok relief valve is used to control the pressure of the inlet as well relief the pressure during emergency or for safety reasons

To order the relief valve with Regulator add designator 'A4' in the given ordering information on page no. 5

Check Valve

To order the Check valve with Regulator add designator 'A3' in the given ordering information on page no. 5

Filter

To order the Filter with Regulator add designator 'A5' in the given ordering information on page no. 5

Warranty Information

Powerlok™ products are backed by The Powerlok™ Limited 18 month for more information contact your authorized Powerlok™ representative.

Safe Product Selection

When selecting a product, the total system design must be considered to ensure safe, trouble-free performance. Function, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.

Powerlok™, India—a brand by Thomas & Brian®
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Contact Details

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Eta Endüstri

Endüstriyel Test ve Servis Ekipmanları

ETA TURKEY ENDÜSTRİ MÜHENDİSLİK
TEST VE SERVİS HİZMETLERİ TİCARET LİMİTED ŞİRKETİ

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