



P2 400 Series Central Gas Manual Switchover Panel Stainless Steel or Brass Barstock Regulator For High Purity Gases



Description

The P2 Single Stage Central Gas Supply Panel is designed for primary pressure control of high purity (up to grade 6.0+), toxic, reactive, or corrosive gases from two sources such as cylinders or cylinder bundles.

Manufactured in an ISO 9001:2008 certified facility, each P2 panel is 100% Helium leak checked and cleaned for oxygen service.

Features

Both right and left inlets

Manual switchover for continuous supply

Metal to metal diaphragm seal

High leak integrity and no contamination

316L stainless steel convoluted diaphragm

Durable and diffusion resistant membrane

CAPSULE® seat with 10 micron filtration

Long service life and reliable performance

Stainless steel panel

Clean appearance and easy installation

Integral process purge or inert gas micro-purge options

Maintain purity and safety during cylinder changes

Wide range of outlet pressure

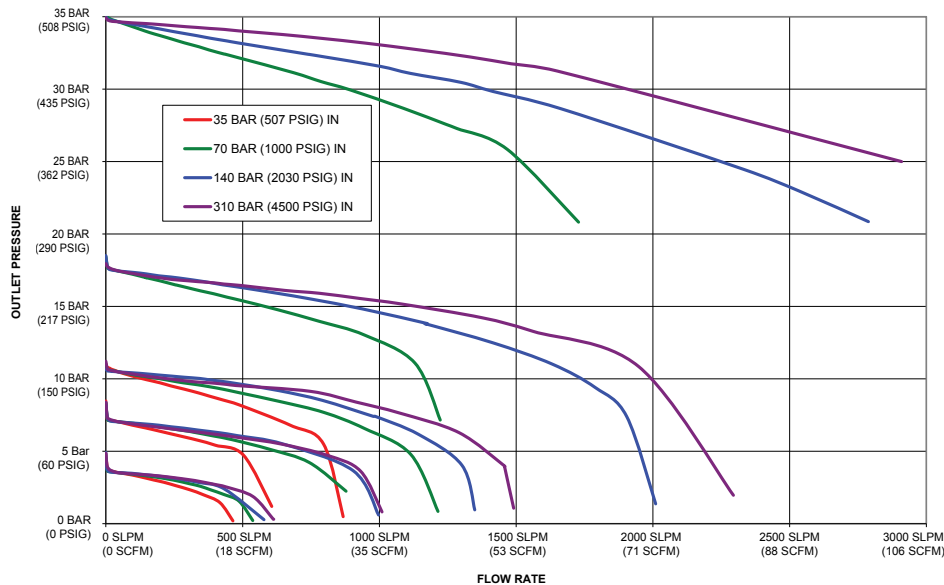
Broad range of applications



Specifications

Maximum Inlet Pressures	Regulator: 310 bar (4500 psig) Diaphragm Valve: 240 bar (3500 psig)
Operating Temperature	-40°C to 60°C (-40°F to 140°F)
Helium Leak Integrity	1x10 ⁻⁸ scc/sec
Gauges	53mm (2") diameter
CV:	0.1

Flow Data



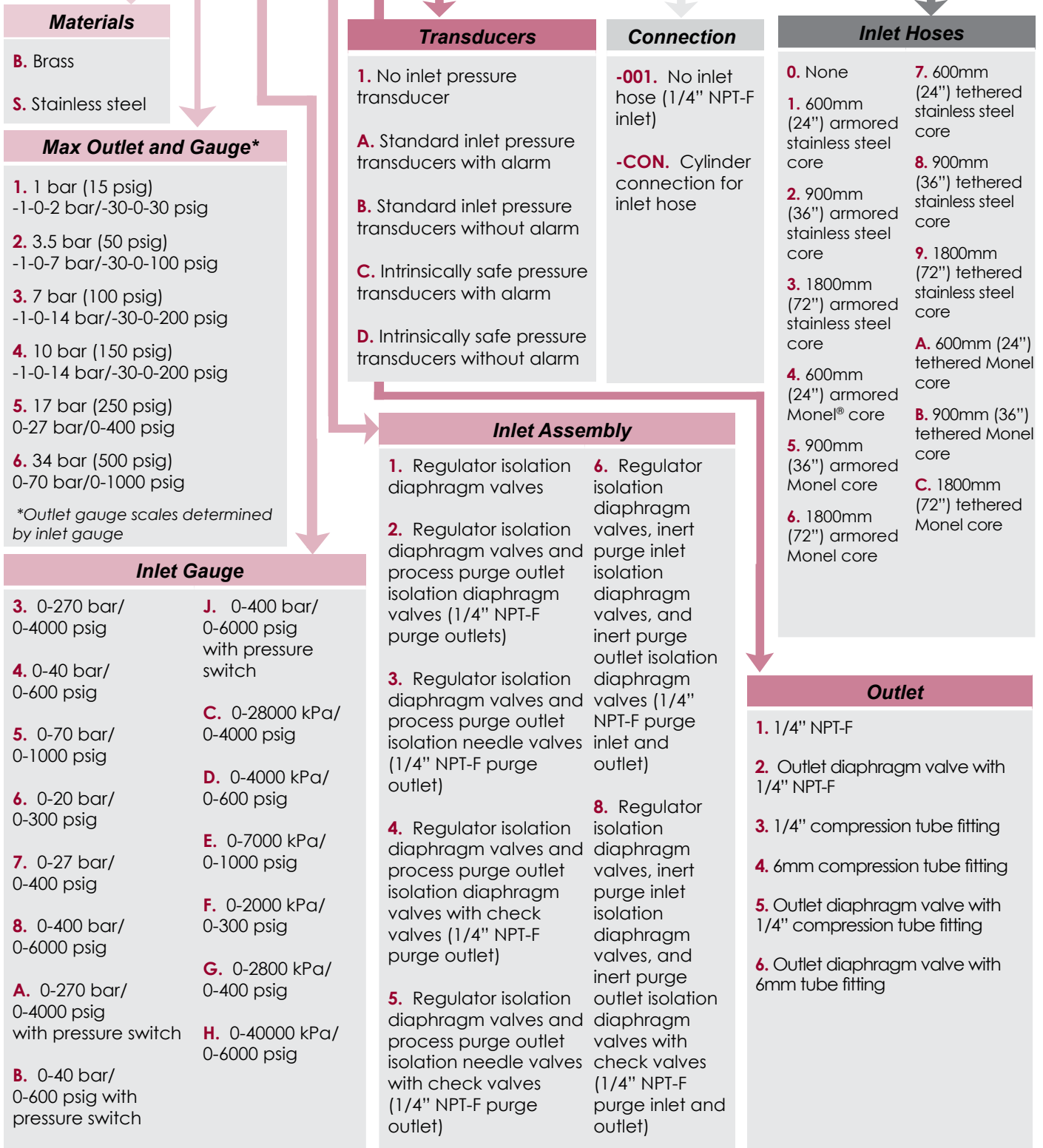
Materials

		P2S	P2B
Regulator	Body	316L stainless steel barstock	Brass barstock
	Bonnet	Chrome-plated brass barstock	Chrome-plated brass barstock
	Seat	PCTFE	PCTFE
	Filter	10 micron 316 stainless mesh	10 micron sintered bronze
	Diaphragm	316L stainless steel	316L stainless steel
Diaphragm Valves (Optional)	Body	316L stainless steel barstock	Brass barstock
	Diaphragms	Elgiloy®	Elgiloy
	Seat	PCTFE	PCTFE
	Seals	Metal to metal	Metal to metal
Needle Valves (Optional)	Body	316L stainless steel barstock	Brass barstock
	Stem	316L stainless steel	316L stainless steel
	Packing	Glass-filled PTFE	Glass-filled PTFE
Gauges	Case	Stainless steel	Chrome-plated brass
	Stem	316L stainless steel	Nickel-plated brass
	Bourdon tube	316L stainless steel	Copper alloy
Pipe Fittings		316L stainless steel	Brass
Tube Fittings		316L stainless steel	316L stainless steel
Panel		2mm 304 stainless steel	2mm 304 stainless steel

P2 Ordering Information

P2

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EXAMPLE

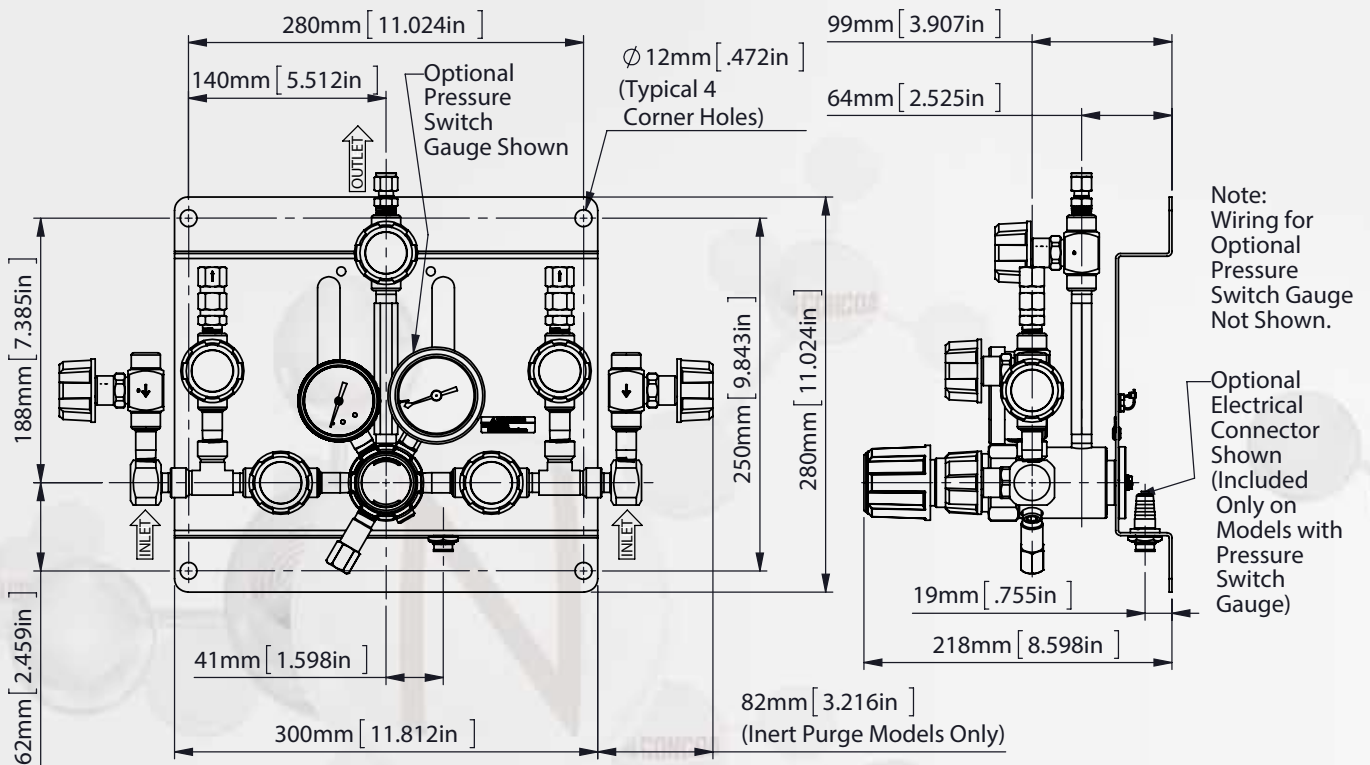
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Stainless steel P2 assembly with 10 bar maximum outlet pressure; -1-0-14 bar/ -30-0-200 psig outlet gauge; 0-270 bar/4000 psig inlet gauge; regulator inlet isolation valves and process purge isolation diaphragm valves; 6mm compression tube fitting outlet; no inlet pressure transducers; and 900mm (36") length long armor-jacketed 316L stainless steel core flexible hoses with DIN 477 #6 cylinder connections.

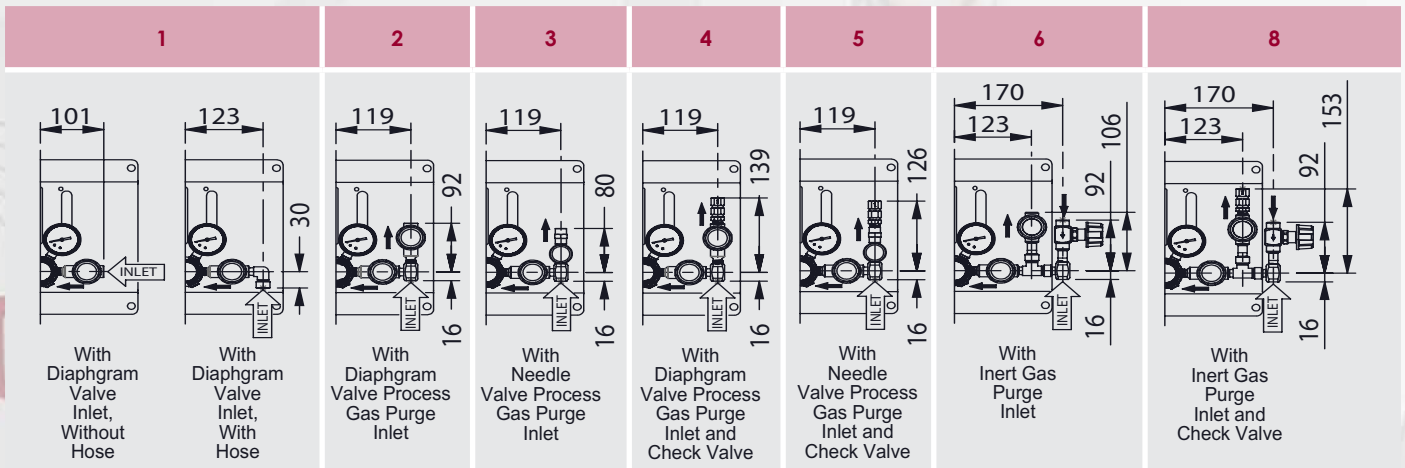
P2 Installation and Typical Configuration

TYPICAL SYSTEM - P2S1A851-01-0010 Shown:

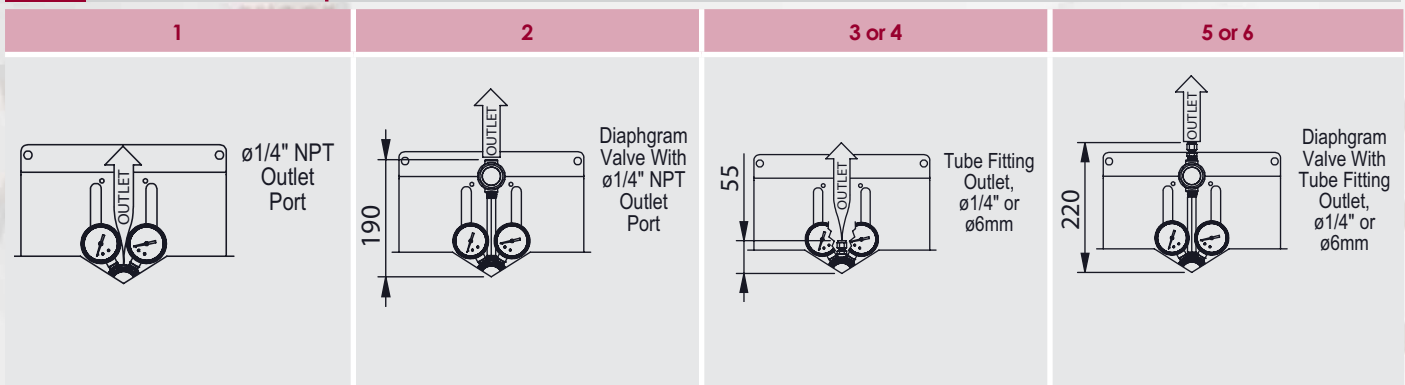
Dimensions shown are typical for All P2 series systems unless otherwise noted. Dimensions are shown on one side only. Dimensions on opposite side are mirror image.



Inlet Assembly Options



Outlet Options



Note: All inlet options use a 1/4" NPT female port. Right-hand inlets are shown. Left-hand inlets are mirror image. All dimensions are in mm.