

R0.1 SERIES

High Pressure, Roughing Regulator
For Two Stage Conversion



High pressure R0.1 Series roughing regulators are single stage, piston sensed, pressure reducing regulators designed to combine with Premier high pressure regulators for increased outlet pressure stability.

Premier R0.1 Series roughing regulators easily thread into standard 1/4" NPT & SAE AS5202-04 inlet ports. Rated for inlet pressures up to 10000 psig, and Cv 0.10.

FEATURES

- Significantly reduces supply pressure effect when combined with Premier high pressure regulators
- Cv 0.1 max
- Compatible with a wide range of Premier regulators
- 10000 psig max inlet pressure
- Compact design
- 7/8" hex for easy torque
- Machined bar stock body, bonnet and piston eliminates porosity found in castings

SOME APPLICATIONS WILL REQUIRE A CUSTOM SOLUTION.
CONTACT PREMIER INDUSTRIES TO REQUEST A MODIFICATION
OR A CUSTOM DESIGN.

SPECIFICATIONS

- **MAXIMUM INLET PRESSURE:**
 - 10000 PSIG (689.5 BAR)
- **OUTLET PRESSURE (NON-ADJUSTABLE):**
 - 700 PSIG - 2000 PSIG (48.3 BAR - 137.9 BAR)
 - 300 PSIG - 700 PSIG (20.7 BAR - 48.3 BAR)
- **FLOW (Cv):** 0.10 MAX

MATERIALS OF CONSTRUCTION

- **WETTED MATERIALS:**
 - 303 Stainless Steel
 - 316 Stainless Steel
- **SEALS:**
 - Viton-A®
 - Buna-N
 - EPDM
 - Low-temperature nitrile
 - Neoprene
- **MAIN VALVE SEAT OPTIONS:**
 - Vespel SP-1®
 - PEEK 450G®

PORTING

- **INLET / OUTLET PORTING OPTIONS:**
 - 1/4" FNPT / 1/4" MNPT
 - SAE AS5202-04 / SAE AS4395-04
 - SAE AS5202-04 / 1/4" MNPT

OPTIONAL ITEMS

- Private label

*Vespel SP-1® and Viton-A® are registered trademarks of
E.I. duPont de Nemours and Company*

PEEK 450G® is a registered trademark of Victrex PLC

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PART NUMBER: 30-10589-XXXX1



RO.1 SERIES

High Pressure, Roughing Regulator
For Two Stage conversion

PART #	-	1	2	3	4	5	-	X (SPECIAL CONFIGURATION)
30-10589	-						-	

1	WETTED MATERIALS
1	303 STAINLESS STEEL
2	316 STAINLESS STEEL
2	SEALS
1	BUNA-N
2	VITON-A®
3	LOW TEMP NITRILE
4	NEOPRENE
5	EPDM
3	SEAT MATERIAL
1	VESPEL SP-1®
2	PEEK 450G®

4	OUTLET PRESSURE
1	700-2000 PSIG 48.3 BAR - 137.9 BAR (NON-ADJUSTABLE)
2	300-700 PSIG 20.7 BAR - 48.3 BAR (NON-ADJUSTABLE)
5	PORTING (INLET/OUTLET)
1	1/4" FNPT / 1/4" MNPT
2	SAE AS5202-04 / SAE AS4395-04
3	SAE AS5202-04 / 1/4" MNPT (NOT SHOWN, 1.92 OAL)
SPECIAL CONFIGURATION	
BLANK	STANDARD CONFIGURATION

10000 PSIG MAX INLET
THE END USER IS RESPONSIBLE TO ENSURE
ADEQUATE FITTINGS ARE USED TO
CONNECT REGULATOR TO PLUMBING.

VESPEL SP-1® AND VITON-A® ARE REGISTERED
TRADEMARKS OF E.I. DUPONT DE NEMOURS AND
COMPANY

PEEK 450G® IS A REGISTERED TRADEMARK OF
VICTREX PLC

CONTACT FACTORY FOR MATERIAL CERTIFICATIONS.
FEES MAY APPLY.