High-Capacity Pressure Regulation with Zero Emissions

TARTARINI™ **Type FLR Pilot-Operated Pressure Reducing Regulator**

Introduction

At Emerson, we work to innovate new solutions to meet the demands of new applications and achieve operational excellence in the natural gas industry.

The Tartarini™ FLR Pressure Reducing Regulator is an accurate, pilot-operated, pressure reducing, axial flow regulator designed to meet a wide range of applications in high pressure transmission, city gate and large capacity distribution of suitably filtered natural gas. The FLR is designed to be used with fuel gases of 1st and 2nd family according to EN 437 and with other non-aggressive and non-fuel gases.

With the FLR, you are ensured with smooth and quiet operation, tight shut-off and long service life.

Tartarini Type FLR Pilot-Operated Pressure Reducing Regulator

Features

- **Higher Capacity** - Higher flow rates compared to a same size top entry design and traditional split-body axial flow design
- **Ease of Maintenance** - Simplified maintenance process through modular design
- **Maintains Accurate Pressure Control** - Fully balanced plug design for lower actuation forces, thus, able to achieve full stroke even with less than 0.5 bar / 7.25 psig pressure differential
- **Ergonomic Design** - Single-piece, integral flanged and compact design ensure an ergonomic design compared to similar sized regulators
- **Less Wear and Prolonged Lifespan** - Radial seal design resulting in low fluid velocity around the seating surfaces to reduce flow wearing
- **Better Performance, Precision and Stability** - Compact and lesser weight design through double piston actuation mechanism compared to traditional diaphragm actuated mechanism

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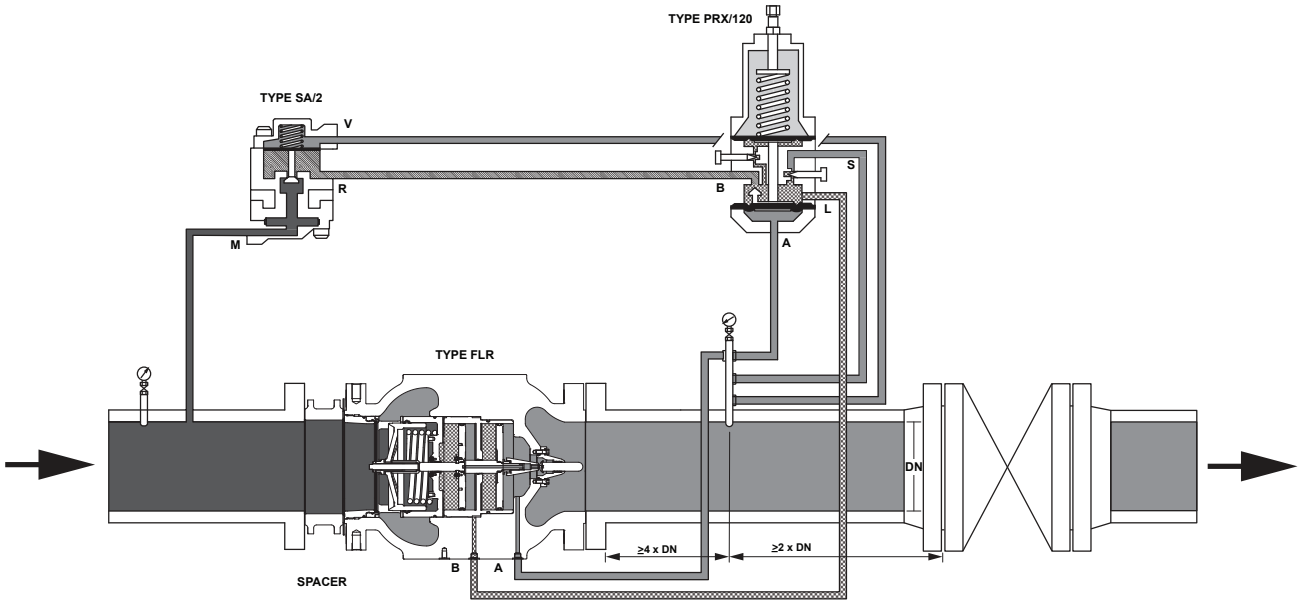
Operational Schematic



INLET PRESSURE
OUTLET PRESSURE
ATMOSPHERIC PRESSURE
LOADING PRESSURE
PILOT SUPPLY PRESSURE

TYPE PRX:
S - BLEED PORT
B - SUPPLY PORT
L - LOADING PORT
A - SENSING PORT

TYPE SA/2:
V - SENSING PORT
R - PILOT SUPPLY PORT
M - INLET PORT

TYPE FLR:
A - SENSING PORT
B - LOADING PORT

Specifications

Body Sizes and End Connection Styles	Approximate Weight	Minimum Operating Differential Pressure	Accuracy Class	Pilot	Pilot Connection	Minimum Turndown
DN 300 / NPS 12: CL300 RF and CL600 RF	2094 lbs / 950 kg	7.3 psig / 0.5 bar	up to ± 1%	PRX Series	1/4 NPT	30:1

Working Temperature Capabilities		
Main Valve	**Pilot Type**	**Temperature**
Standard Version, Nitrile (NBR) or Fluorocarbon (FKM)	PRX/120, PRX-AP/120, PRX/125, PRX-AP/125, PRX/131, PRX-AP/131	14 to 140°F / -10 to 60°C
Low Temperature Version, Nitrile (NBR)	PRX/120, PRX-AP/120, PRX/125, PRX-AP/125, PRX/131, PRX-AP/131	-4 to 140°F / -20 to 60°C

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