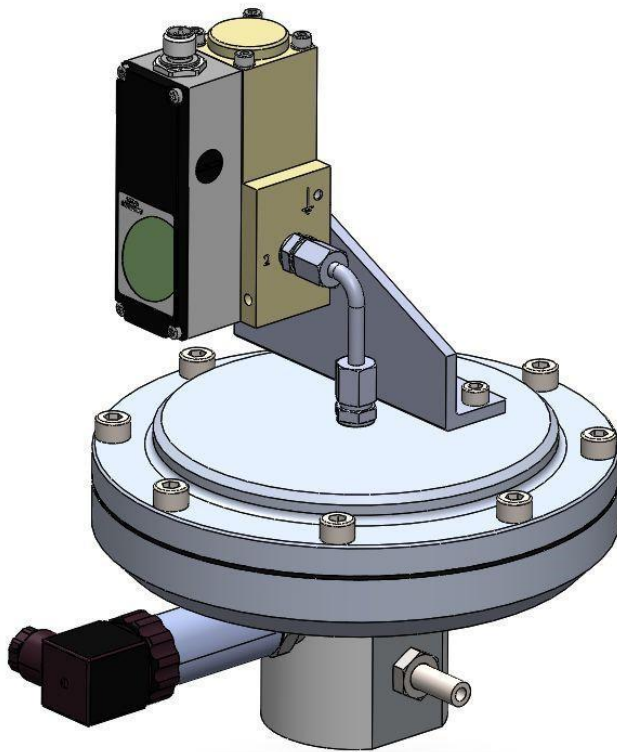


Zertifiziert nach DIN EN ISO 9001
 certified according to [DIN EN ISO 9001](#)



Dome Transducer –
 Proportional Pressure Regulator

“PPR1-Series”

Inlet Pressure P1	: 1000 bar
Outlet Pressure	
Range P2	: 0-1000 bar @
Control Pressure	: 0...6bar
Kv	: 0,5 m³/h (0,58 m³/h)
Ambient Temperature	: -20...50°C
Medium Temperature	: -40...70°C
Valve Housing Material	: 316L; 316 Ti
Pneumatic Cylinder	
Material	: Coated Aluminium
Process connection	: Cone-Thread Fitting
Sealing Material	: HNBR, PEEK, PU
Diaphragm Material	: NBR
Internal Leakage	: $1 \cdot 10^{-3}$ mbar·l/s
External Leakage	: $1 \cdot 10^{-4}$ mbar·l/s
Weight	: 4,8 kg

The dome loaded transducer – Proportional Pressure Reducer basically acts like a conventional pressure reducer. Instead of a compressible spring loaded dome, a pneumatic buffer actuator is installed. The compressible gas acts the valve stem, as soon as the set pressure of the proportional valve is added to the cylinder.

Hence the P2 outlet pressure follows, with a fix ratio, the air pressure in the pneumatic actor, which is controlled by a small proportional pressure regulator. The set value signal for the proportional low pressure reducer is 4...20mA.

Order Code:

Dome Transducer- Proportional Pressure Regulator	Tank Connection	Pressure Range	Voltage	Frequency	Option
PPR1 -	T__	PR __ -	V __ -	F__	O__
	26 = 3/8 (6MF) 27 = 9/16 (9MF)	37 = 30 – 500 bar 38 = 30 – 900 bar	02 = 24 V 05 = 230 V	01 = DC 02 = 50 AC	25 = Helium Leak Test 26 = Material Certificate

Configuration Example:

PPR1-T26-PR37-V02-F01-O2526

Dome Transducer – Proportional Pressure Regulator with 3/8 (6MF) process connection, 30-500 bar pressure range, 24V, DC. The Dome Transducer – Pressure Regulator will be delivered with a Helium leak test certificate and material certificate.