LPBPVSF | LPBPESF- DRUVA®PUR LINE REGULATOR

LINE REGULATOR | PURE LINE (BRASS CHROME PLATED) | 5 m 3 SERIES | PRECISION REGULATOR SINGLE STAGE | 4-PORT VERSION



This single-stage line pressure regulator is used in gas supply systems for pure, inert, flammable, oxidising gases and gas mixtures up to gas purity 6.0. It is not usable for corrosive and / or toxic gases and their mixtures.

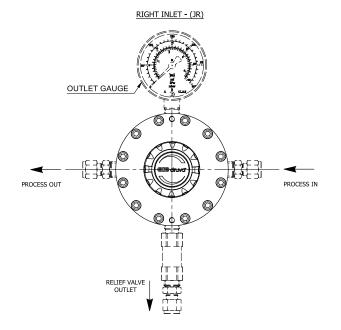


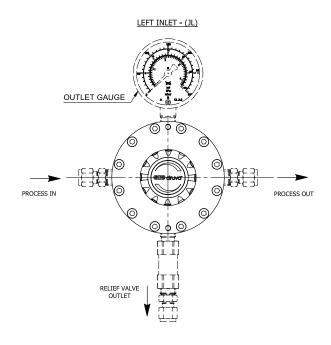
SPECIAL FEATURES:

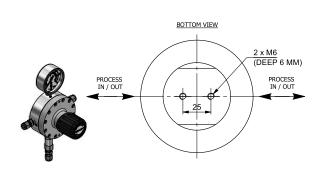
- > Low outlet pressure
- > Very fine adjustment
- > The large housing diameter of this pressure reducer allows large metal diaphragms and thus very fine adjustment of the back pressure at comparatively high flows down to 250 mbar
- > The line pressure regulator reduces the line pressure with very small hysteresis to very low supply pressures

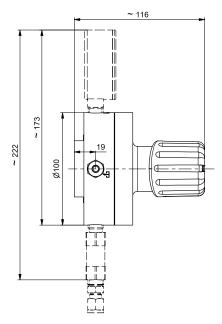
TECHNICAL DATA					
Working temperature:	20 °C to +60 °C				
Inlet / outlet ports:	NPT 1/4"f, optional compression fitting				
Leakage rate seat:	<5x10 ⁻⁶ mbar I/s (Helium)				
Leakage rate outside:	<1x10 ⁻⁹ mbar l/s (Helium)				
Filter:	1x for inlet 1x for each outlet				
Weight:	2,7 kg				
Flow nominal:	5 m³/h (N ₂)				
Material gas wetted parts:					
Regulator body:	Brass chrome plated				
Regulator diaphragm:	Hastelloy				
Regulator seat: LPBPVSJ-Version LPBPESJ-Version Relief valve seat:	FKM EPDM				
LPBPVSJ-Version LPBPESJ-Version	FKM EPDM				
Regulator poppet:	Brass				
Regulator seal:	PCTFE				
Pressure rates line regulator:					
Inlet pressure	12 40 bar				
Outlet pressure 12 bar Version: 40 bar Version:	250 mbar 450 mbar 1300 mbar 250 mbar 450 mbar 1300 mbar 3000 mbar				
Pressure gauges rates (pressure rates):	0-300 mbar (250 mbar) 0-600 mbar (450 mbar) 0-1600 mbar (1300 mbar) 0-4000 mbar (3000 mbar)				
Contact gauges available – please conta	act us				
Cracking pressure relief valves:	2 bar (1300 mbar) 4,6 bar (3000 mbar)				
	Pressure test with Helium of each item				
Test in muselmetica.	Seat leakage test with Helium of each item				
Test in production:	Helium leak test of each regulator against atmosphere				
	Test of functionality of each item				
	Type test in accordance with ISO 7291				
	Additional life cycle test				
Approvals during development:	Electrostatic chargeability test Fulfill requirements according ISO 80079-36; IEC TS 60079-32-1 and Germar TRGS 727 Usable in EX-areas zones 1 and 2 for gases with explosion risk group I; IIA; IIB; IIC				

TECHNICAL DRAWING:









Connections

N14F - NPT1/4" female

M03B - Compression fitting ø 3 MM Brass

M06B - Compression fitting ø 6 MM Brass

M08B - Compression fitting ø 8 MM Brass

M10B - Compression fitting ø 10 MM Brass

M12B - Compression fitting Ø 12 MM Brass
M03S - Compression fitting Ø 3 MM Stainless steel

M06S - Compression fitting ø 6MM Stainless steel

M08S - Compression fitting ø 8 MM Stainless steel

M10S $\,$ - Compression fitting ø 10 MM Stainless steel

M12S - Compression fitting ø 12 MM Stainless steel IX2B - Compression fitting ø 1/8" Brass

- Compression fitting ø 1/4" Brass

IX8B - Compression fitting ø 1/2" Brass

IX6B - Compression fitting ø 3/8" Brass IX2S - Compression fitting ø 1/8" Stainless steel

- Compression fitting ø 1/4" Stainless steel - Compression fitting ø 1/4" Stainless steel - Compression fitting ø 3/8" Stainless steel IX4S

IX6S

Compression fitting ø 1/2" Stainless steel

H04B - Hose nozzle 4,8 mm Brass

H06R - Hose nozzle 6,4 mm Brass - Hose nozzle 8,0 mm Brass

H04S

- Hose nozzle 4,8 mm Stainless steel - Hose nozzle 6,4 mm Stainless steel H06S

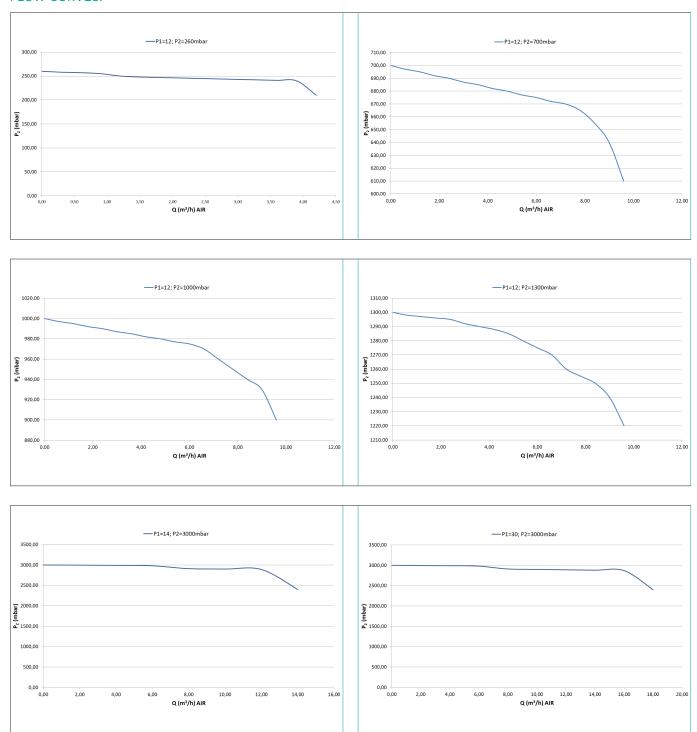
H08S - Hose nozzle 8,0 mm Stainless steell

Availability of brass fittings depending on pressure &size. Pay attention to the maximum approved pressure of your pipework.

Hose nozzles max. 15 bar

GCE CENTRAL GAS SYSTEMS

FLOW CURVES:



ORDER CODE:

Example Line Regulator | PUR Linie | Brass chrome plated | 5 m³ Series | Precision | Single Stage | 4-Port Version

LPBPVSF	R	D1	A2	ВТ	ВТ	N14F	N14F	RV	N14F
LPBPESF							(1/4" NPT female) (1/4" NPT female)		
	Porting	Inlet pressure	Outlet pressure	Inlet gauge	Outlet gauge	Inlet connection	Oulet connection	Safety device	Relief valve connection
	R Inlet right	D1 12 bar	A4 250 mbar	00 Without 1/4" NPT female	00 Without 1/4" NPT female			00 Without 1/4" NPT female	0001 – if no safety
	L Inlet left	E1 40 bar	A3 450 mbar	01 Without (plugged)	01 Without (plugged)	possible connections see technical drawing possible connections	01 Without (plugged)	device is choosen	
			A2 1,3 bar	BT Bourdon Tube gauge	BT Bourdon Tube gauge		connections	RV Relief valve **	possible connection if safety device RV is choosen
			BX 3,0 bar *						
	* only for inlet pressure 40 bar ** only for outlet pressure 1,3 bar and 3 bar							see technical drawing	

Order code (as described above) without special characters or spaces! Complete Order Code LPBPVSFRD1A2BTBTN14FN14FRVN14F