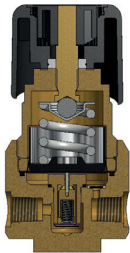


SINGLE STAGE PRESSURE LINE REGULATOR IN INDUSTRIAL GAS SUPPLY SYSTEMS

- LTLF - LOW FLOW RANGE



4-port line regulator
1 x inlet; 3 x outlet



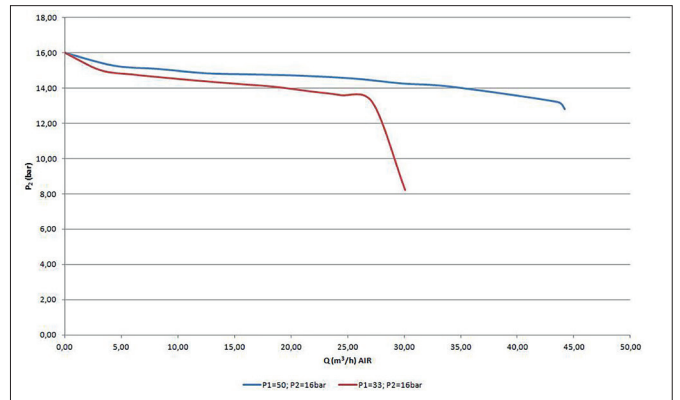
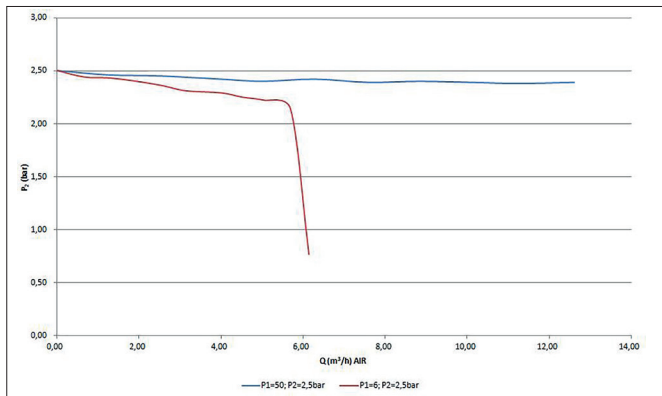
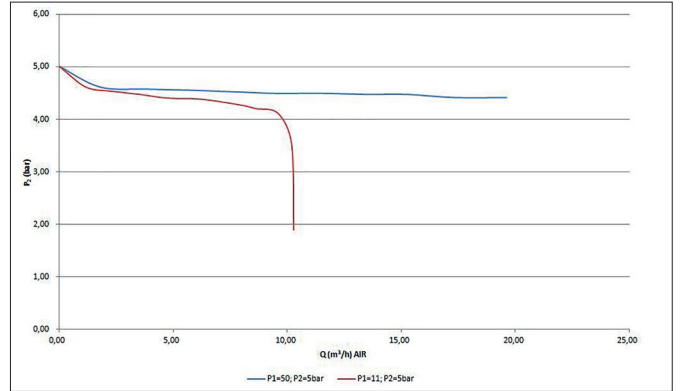
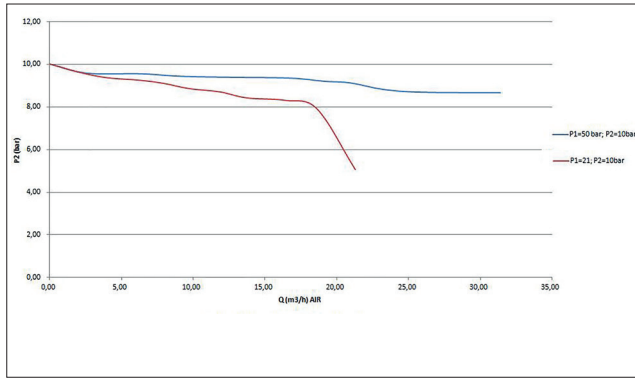
4- port single stage line regulator used in supply systems for industrial, inert, flammable, oxidizing gases and gas mixtures. Not usable for corrosive or toxic gases and gas mixtures.

SPECIAL FEATURES

- > Metal diaphragm regulator
- > Compact design
- > Single stage version
- > Excellent pressure adjustment
- > Designed and approved regarding ISO7291 (including O₂- ignition test)
- > Relief valve in delivery pressure side available
- > Electrostatic chargeability test
 - fulfill requirements according DIN EN ISO 80070-36; IEC TS 60079-32-1 and German TRGS 727
 - usable in EX- areas zones 1 and 2 for gases with explosion risk group I; IIA; IIB; IIC

TECHNICAL DATA	
Working temperatures:	-20°C to + 60 °C
Inlet/outlet ports:	NPT ¼" female
Leakage rate seat:	less than 50 cm ³ /h (23°C; 1,013 bar absolut) Compressed Air
Leakage rate outside:	less than 10 cm ³ /h (23°C; 1,013 bar absolut) Compressed Air
Filter inlet:	10 µm mesh
Filter outlet ports:	100 µm mesh
Mounting holes:	2xM6
Materials gas wetted parts:	
Regulator body:	BRASS (2.0401.26)
Regulator diaphragm:	Hastelloy (2.4819)
Regulator seat:	PCTFE
Regulator popet:	BRASS (2.0371)
Pressure rates line regulator:	
Max. inlet pressure:	50 bar
Delivery pressures:	2,5 bar; 5 bar; 10 bar; 16 bar; 40 bar
Pressure gauge rates (pressure rates):	5 bar (2,5 bar); 10 bar (5 bar); 18 bar (10 bar); 25 bar (16 bar); 65 bar (40 bar)
Contact gauges available- please contact us	
Cracking pressure relief valves:	3,9 bar (2,5 bar); 7,7 bar (5 bar); 15,4 bar (10 bar); 24,6 bar (16 bar)
Tests in production:	Pressure test with dry air (ISO 8573 [1:2:2]) of each item regarding ISO 7291 5.2.7.2 Seat leakage test with dry air (ISO 8573 [1:2:2]) of each item regarding ISO 7291 5.2.7.3 Test of functionality of each item
Approvals during development:	Type test regarding ISO 7291 O ₂ ignition test regarding ISO 7291 Approval for all none metallic O ₂ - wetted parts which were not part of O ₂ ignition test Electrostatic chargeability test - fulfill requirements according DIN EN ISO 80070-36; IEC TS 60079-32-1 and German TRGS 727 - usable in EX- areas zones 1 and 2 for gases with explosion risk group I; IIA; IIB; IIC

FLOW CURVES



DRAWINGS

RIGHT INLET - (R)

LEFT INLET - (L)

ORDERING INFORMATION

LTLF X X X XX X XX XXXX XXXX XX XXXX

<p>PORTING CODE:</p> <p>R - RIGHT INLET L - LEFT INLET</p> <p>STAGES:</p> <p>S - SINGLE STAGE</p> <p>*GAS TYPE:</p> <p>S - STANDARD GASES</p> <p>INLET PRESSURE:</p> <p>EX - 50 BAR</p> <p>OUTLET PRESSURE:</p> <p>D1 - 2.5 BAR C1 - 5 BAR D2 - 10 BAR E5 - 16 BAR</p> <p>INLET GAUGE TYPE:</p> <p>00 - WITHOUT (4 PORT)</p>	<p>RELIEF CONNECTION:</p> <p>0001 - WITHOUT (PLUGGED) *SEE THE LIST OF CONNECTIONS</p> <p>SAFETY DEVICE:</p> <p>00 - WITHOUT (NPT1/4" FEMALE) 01 - WITHOUT (PLUGGED) RV - PRESSURE RELIEF VALVE</p> <p>PROCESS OUTLET CONNECTION:</p> <p>*SEE THE LIST OF CONNECTIONS</p> <p>PROCESS INLET CONNECTION:</p> <p>*SEE THE LIST OF CONNECTIONS</p> <p>OUTLET GAUGE TYPE:</p> <p>00 - WITHOUT (NPT1/4" FEMALE) 01 - WITHOUT (PLUGGED) BT - BOURDON TUBE I2 - INDUCTIV CONTACT I2 R2 - REED CONTACT R2 I1 - INDUCTIV CONTACT I1 RS - REED CONTACT RS</p>	<p>*LIST OF CONNECTIONS</p> <p>N14F - NPT1/4" FEMALE M06B - COMPRESSION FITTING Ø 6MM BRASS M08B - COMPRESSION FITTING Ø 8MM BRASS M10B - COMPRESSION FITTING Ø 10MM BRASS M12B - COMPRESSION FITTING Ø 12MM BRASS M06S - COMPRESSION FITTING Ø 6MM SS M08S - COMPRESSION FITTING Ø 8MM SS M10S - COMPRESSION FITTING Ø 10MM SS M12S - COMPRESSION FITTING Ø 12MM SS IX4B - COMPRESSION FITTING Ø1/4" BRASS IX8B - COMPRESSION FITTING Ø3/8" BRASS IX16B - COMPRESSION FITTING Ø1/2" BRASS IX4S - COMPRESSION FITTING Ø1/4" SS IX8S - COMPRESSION FITTING Ø3/8" SS IX16S - COMPRESSION FITTING Ø1/2" SS</p> <p>*GAS TYPE DEFINED BY PRODUCT LINE AND TYPE (CHECK AVAILABLE GAS TYPE IN DATASHEET)</p>
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EXAMPLE: LTLFRSXXD200BTM06BM06BRVM06B



Link to product configurator