LPLH0SF | LPLHESF – DRUVA®PUR LINE REGULATOR

LINE REGULATOR | PURE LINE (BRASS CHROME PLATED) | 20 m³ SERIES | HIGH PRESSURE RANGE SINGLE STAGE | 4-PORT VERSION

PURITY 6.0 99.9999%

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:



- Hastelloy diaphragm tighting system to atmosphere
- Compact design
- Excellent pressure adjustment
- Designed and approved regarding ISO 7291 (including O_2 ignition test)
- Relief valve in delivery pressure side available
- Electrostatic chargeability test
  - Fulfills requirements according to ISO 80079-36; 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 temperature:	-20 °C to +60 °C
Inlet / outlet ports:	See technical drawing
Leakage rate seat:	<5x10^{-6} mbar l/s (Helium)
Leakage rate outside:	<1x10^{-9} mbar l/s (Helium)
Filter:	1x for inlet 1x for each outlet
Weight:	1,30 kg
Flow nominal:	20 m³/h (N_2) according to ISO 7291 at 20 bar outlet & 41 bar inlet pressure
Material gas wettet parts	
Regulator body:	Brass chrome plated
Regulator diaphragm:	Hastelloy
Regulator seat:	PCTFE (P in > 50 bar) PTFE (P in ≤ 50 bar)
Relief valve seat: LPLH0SF-Version LPLHESF-Version	 FKM EPDM
Regulator poppet:	Brass
Pressure rates line regulator	
Max. inlet pressure:	300 bar
Delivery pressure:	2/ 3/ 6/ 10/ 14/ 28/ 50/ 100/ 200 bar
Pressure gauges rates (pressure rates):	2,5 (2)/ 5 (3)/ 10 (6)/ 25 (10, 14)/ 40 (28)/ 65 (50)/ 160 (100)/ 315 (200) bar
Contact gauges available – please contact us	
Cracking pressure relief valves:	3,1 (2)/ 4,6 (3)/ 9,2 (6)/ 15,4 (10)/ 21,6 (14)/ 15,4 (10)/ 21,6 (14)/ 43,1 (28)/ 77 (50)/ 154 (100) bar
Test in production:	Pressure test with Helium of each item
	Seat leakage test with Helium of each item
	Helium leak test of each regulator against atmosphere
	Test of functionality of each item
Approvals during development:	Type test in accordance with ISO 7291
	O2 ignition test regarding ISO 7291
	Additional life cycle test
	Electrostatic chargeability test • Fulfill requirements according ISO 80079-36; 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

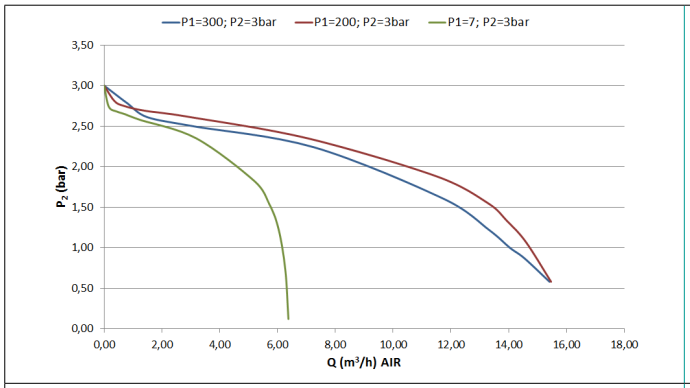
GCE® Gas Control Equipment

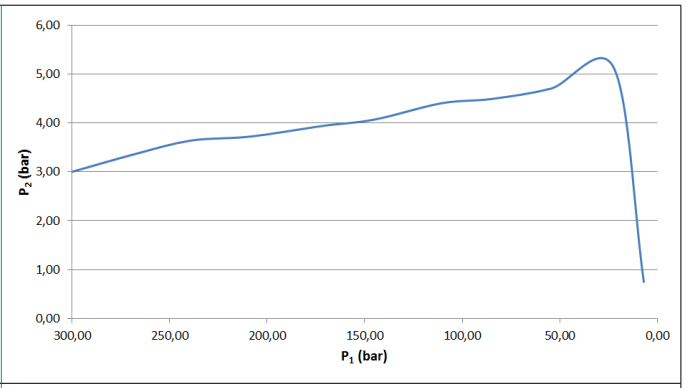
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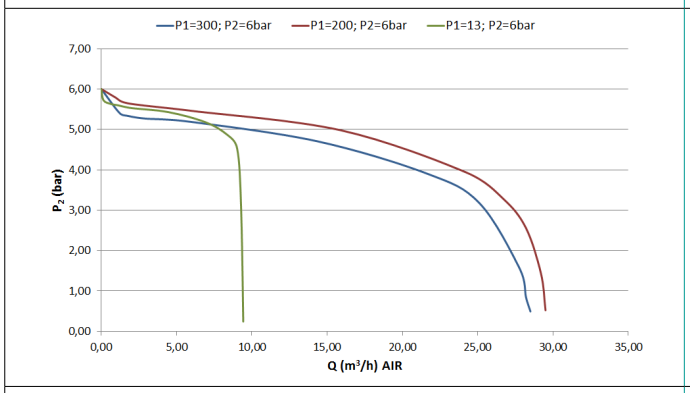
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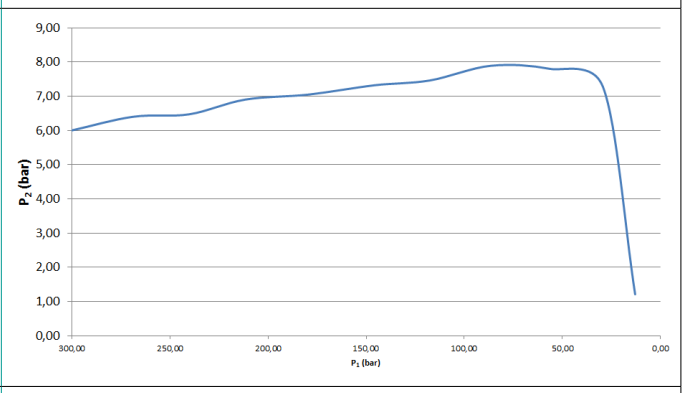
FLOW CURVES:

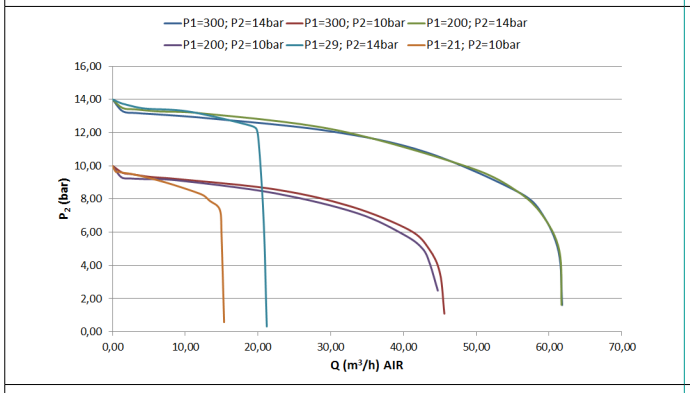
DYNAMIC EXPANSION CURVES:

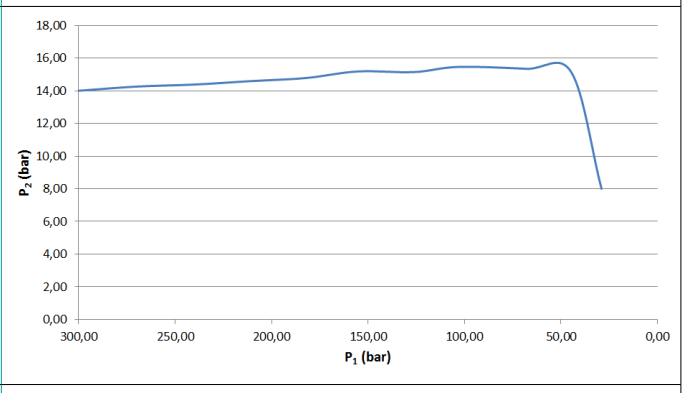


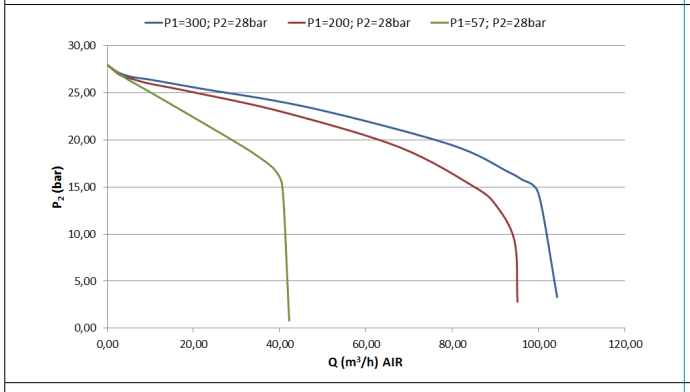


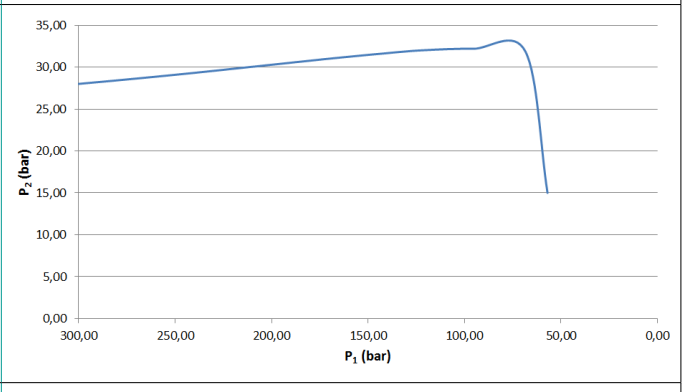


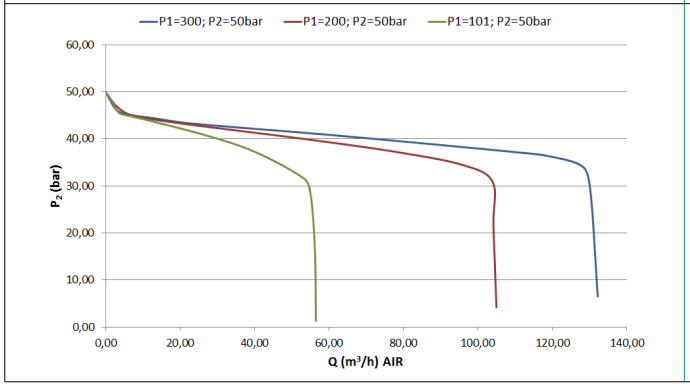


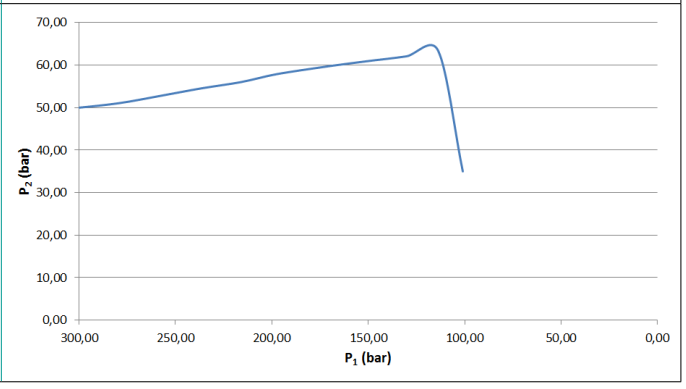




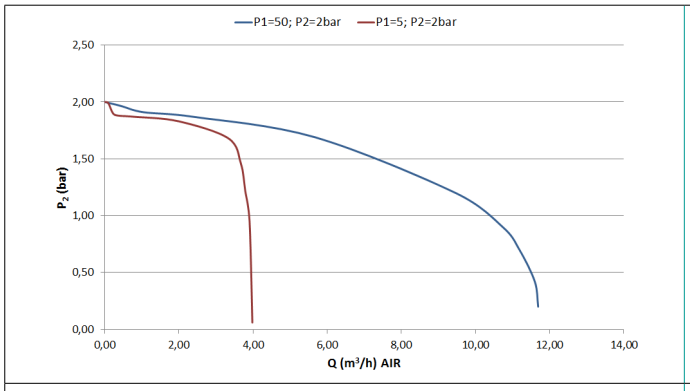


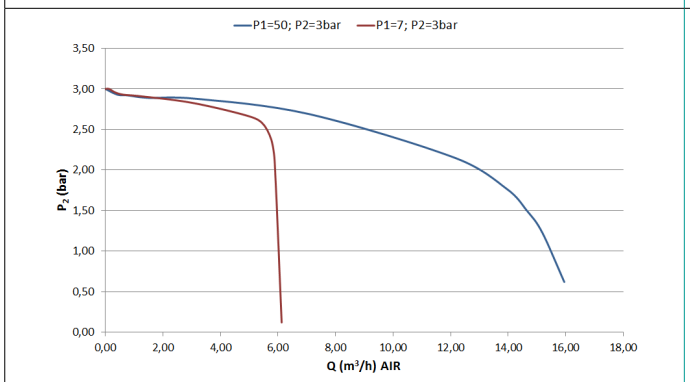


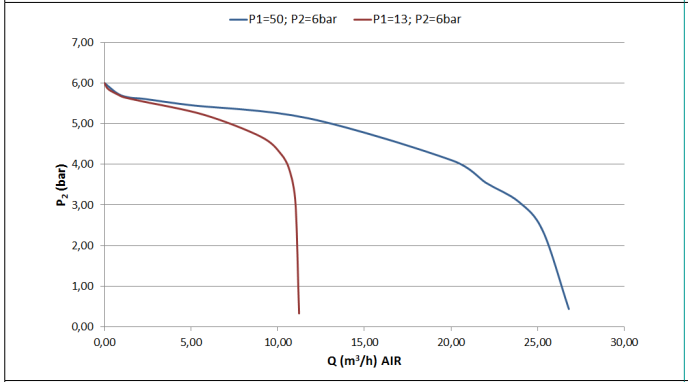


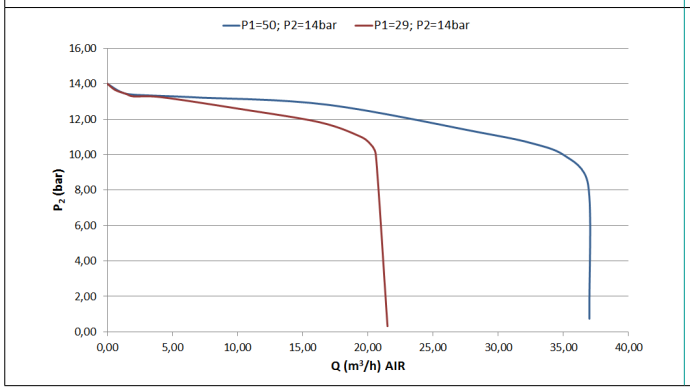


FLOW CURVES:

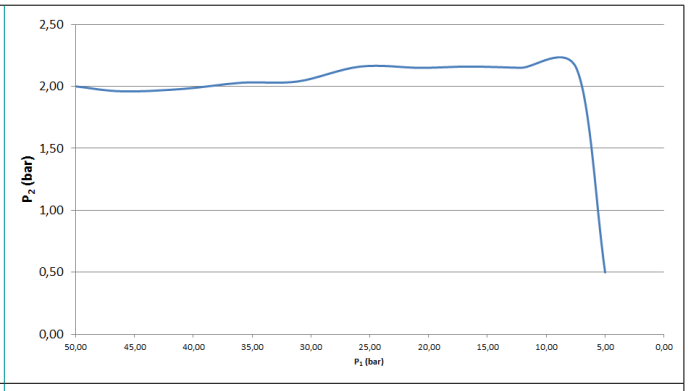


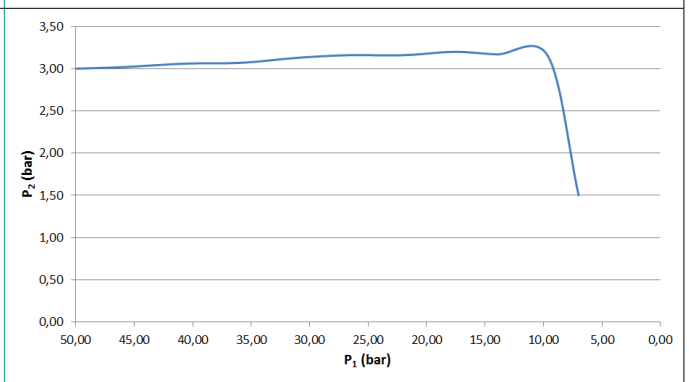


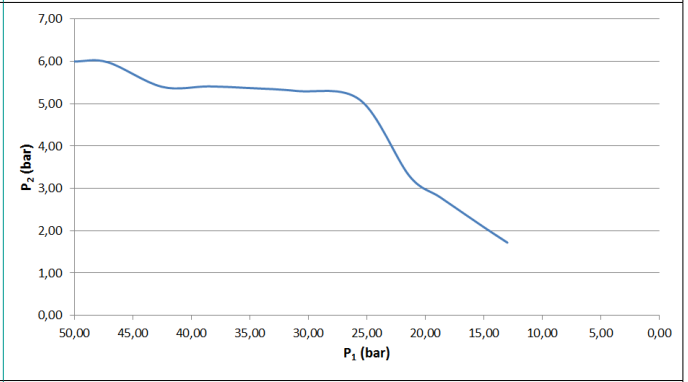


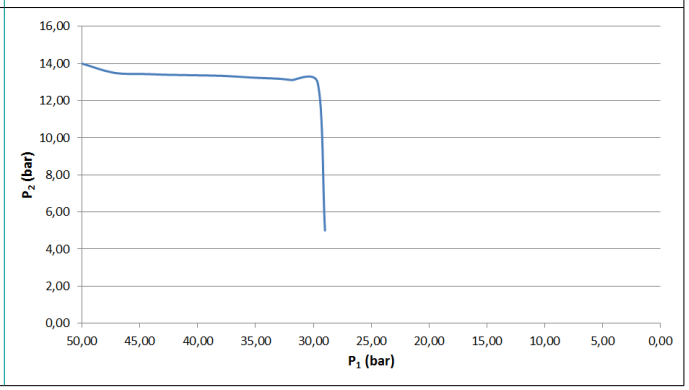


DYNAMIC EXPANSION CURVES:





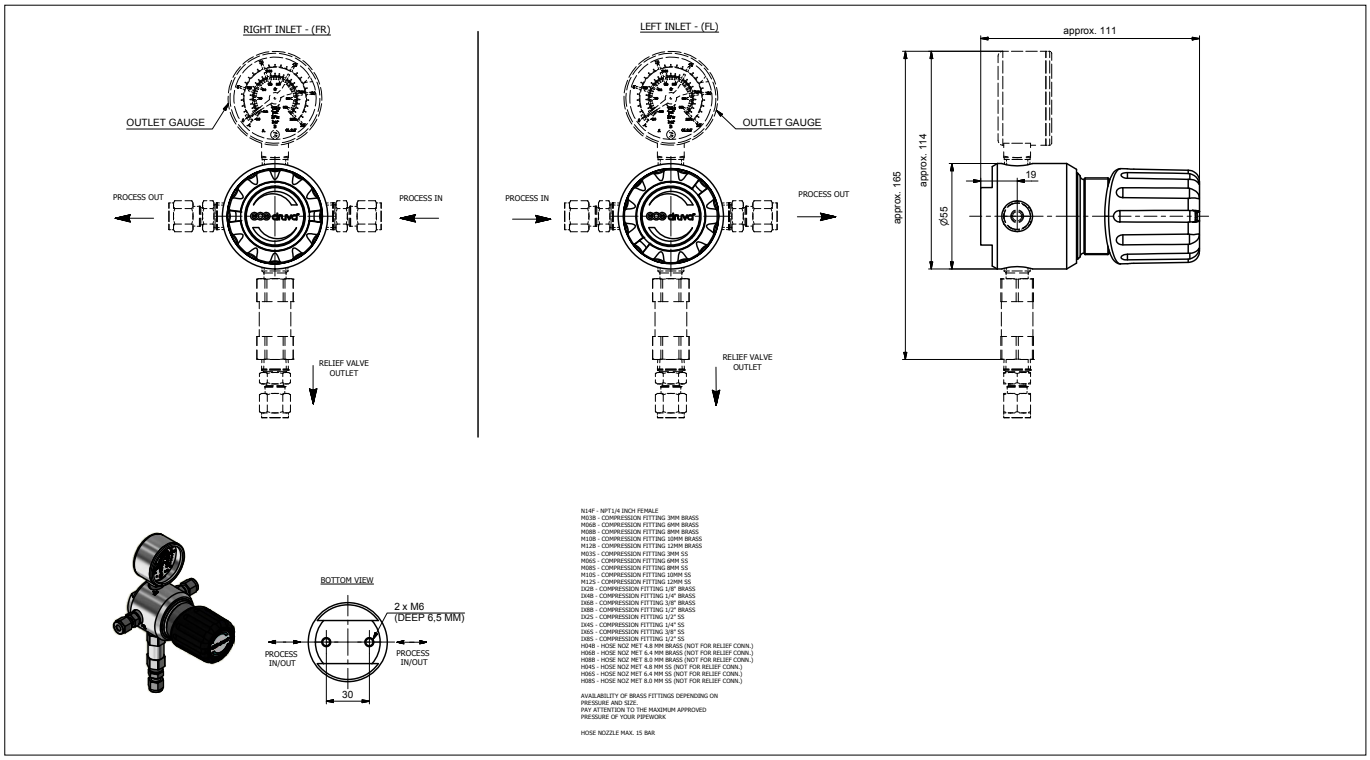




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TECHNICAL DRAWING:



ORDER CODE:

Example Line Regulator | PUR Linie | Brass Chrome Plated | Low Flow | High Pressure | Single Stage | 4-Port Version

LPLH0SF LPLHESF	R	GX	DX	00	BT	N14F (1/4" NPT female)	N14F (1/4" NPT female)	00	0001

Porting	Inlet pressure	Outlet pressure	Inlet gauge	Outlet gauge	Inlet connection	Oulet connection	Safety device	Relief valve connection
R Inlet right	EX 50 bar	AX 2 bar	00 Without (Porting F)	00 Without 1/4" NPT female	possible connections see technical drawing Inlet pressure GX=300 bar only available with SST fittings	possible connections see technical drawing Outlet pressure FX=200 bar only available with SST fittings	00 Without 1/4" NPT female	0001 – if no safety device is choosen
L Inlet left	F4 60 bar	BX 3 bar		01 Without (plugged)			01 Without (plugged)	
	FX 200 bar	CX 6 bar		BT Bourdon Tube gauge			RV Relief valve	possible connection if safety device RV is choosen
	GX 300 bar	D2 10 bar		I2 Inductiv contact gauge I2 **				
		DX 14 bar		R2 Reed contact gauge R2 **				see technical drawing
		EY 28 bar		I1 Inductiv contact gauge I1 ***				
		EX 50 bar						
		F2 100 bar						
		FX 200 bar						

** Only for Inlet Pressure EX = 50 bar*
*** Only for outlet pressure 10, 14 ,28 50 and 100 bar*
**** Only for outlet pressure 10, 14, 28, 50, 100 and 200 bar*
Order code (as described above) without special characters or spaces! Complete Order Code LPLH0SFRGXDX00BTN14FN14F000001

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