

# LSLHOSF | LSLHESF – DRUVA® PUR LINE REGULATOR

## LINE REGULATOR | PURE LINE (STAINLESS STEEL) | 20 m<sup>3</sup> SERIES | HIGH PRESSURE RANGE

### SINGLE STAGE | 4-PORT VERSION



This single-stage line pressure regulator is used in gas supply systems for pure, inert, flammable, oxidising, corrosive and / or toxic gases and their mixtures up to gas purity 6.0.



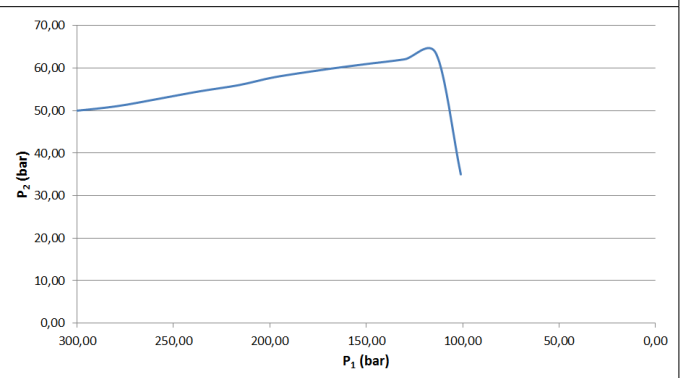
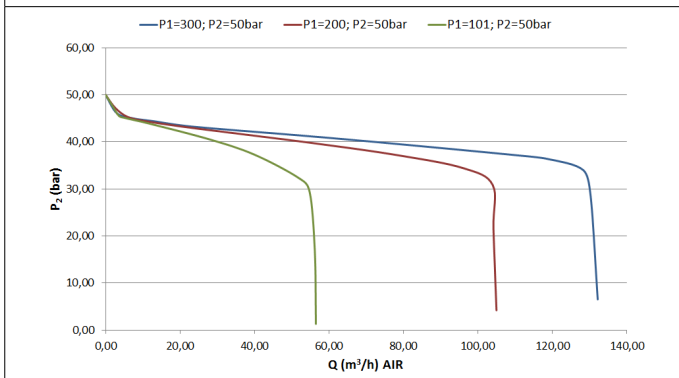
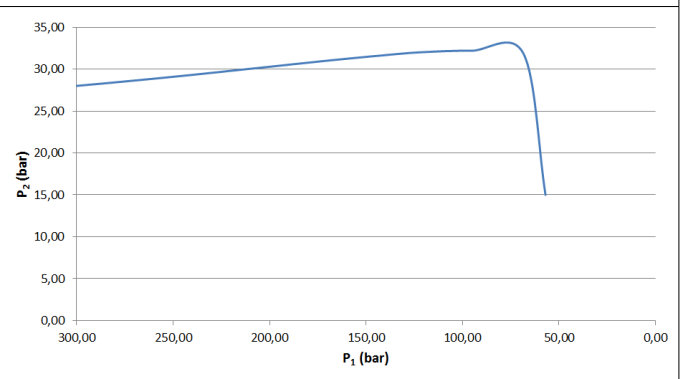
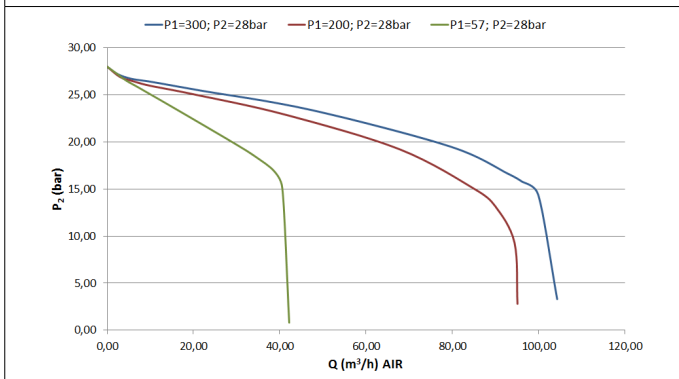
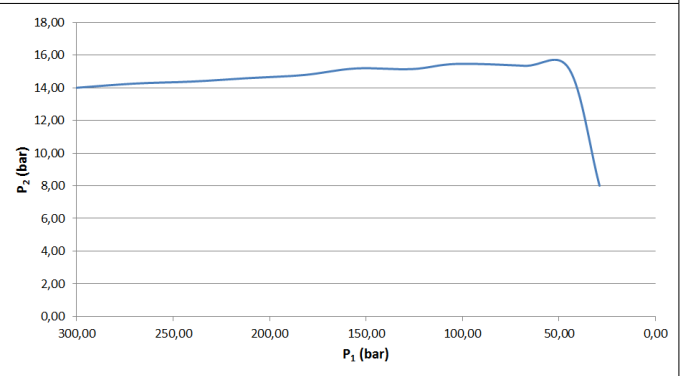
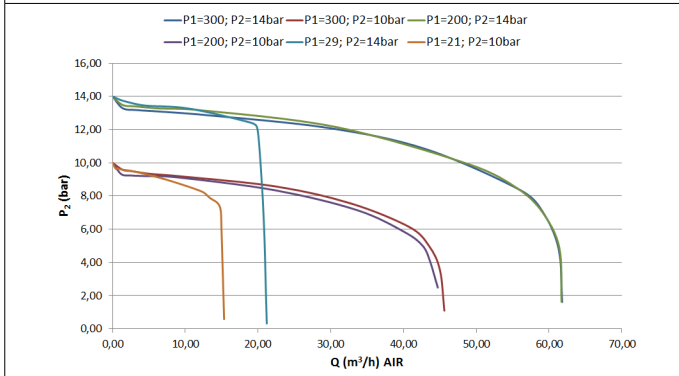
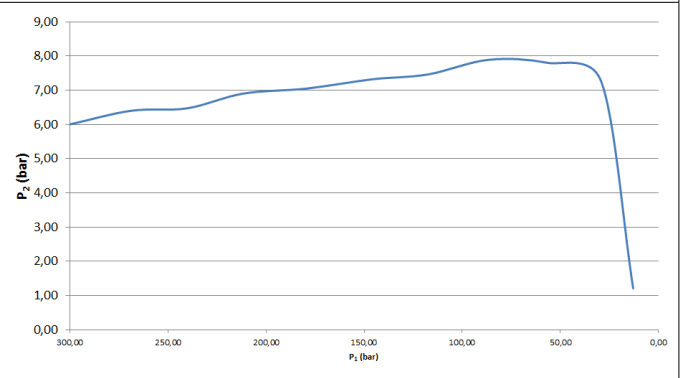
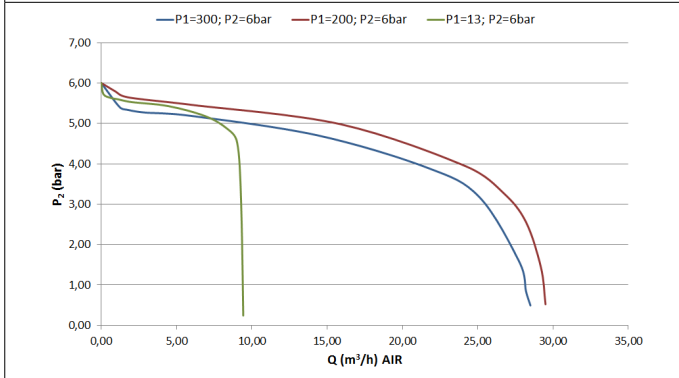
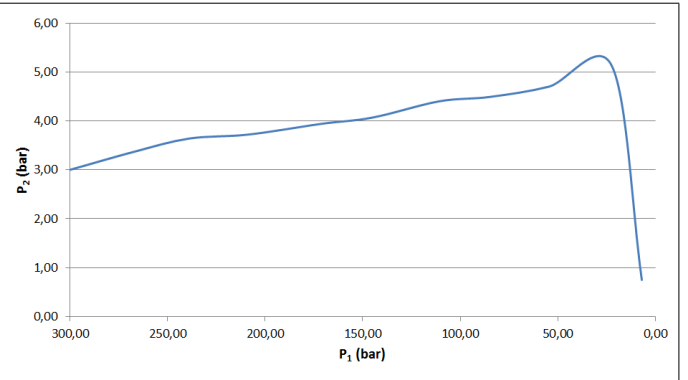
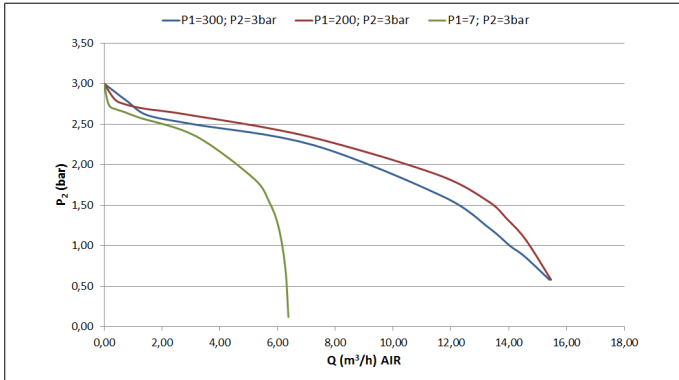
#### SPECIAL FEATURES:

- > Hastelloy diaphragm tightening system to atmosphere
- > Compact design
- > Excellent pressure adjustment
- > Designed and approved regarding ISO 7291
- > 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	
<b>Working temperature:</b>	-20 °C to +60 °C
<b>Inlet / outlet ports:</b>	See technical drawing
<b>Leakage rate seat:</b>	<5x10 <sup>-6</sup> mbar l/s (Helium)
<b>Leakage rate outside:</b>	<1x10 <sup>-9</sup> mbar l/s (Helium)
<b>Filter:</b>	1x for inlet 1x for each outlet
<b>Weight:</b>	1,24 kg
<b>Flow nominal:</b>	20 m <sup>3</sup> /h (N <sub>2</sub> ) according to ISO 7291 at 20 bar outlet & 41 bar inlet pressure
<b>Material gas wettet parts:</b>	
<b>Regulator body:</b>	Stainless Steel
<b>Regulator diaphragm:</b>	Hastelloy
<b>Regulator seat:</b>	PCTFE (P in > 50 bar) PTFE (P in ≤ 50 bar)
<b>Relief valve seat:</b>	LSLHOSF-Version: FKM LSLHESF-Version: EPDM
<b>Regulator poppet:</b>	Stainless Steel
<b>Pressure rates line regulator:</b>	
<b>Max. inlet pressure</b>	300 bar
<b>Delivery pressure</b>	2/ 3/ 6/ 10/ 14/ 28/ 50/ 100/ 200 bar
<b>Pressure gauges rates (pressure rates):</b>	2,5 (2)/ 5 (3)/ 10 (6)/ 25 (10, 14)/ 40 (28)/ 65 (50)/ 160 (100)/ 315 (200) bar
<b>Contact gauges available – please contact us</b>	
<b>Cracking pressure relief valves:</b>	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 Pressure test with Helium of each item
<b>Test in production:</b>	Seat leakage test with Helium of each item Helium leak test of each regulator against atmosphere Test of functionality of each item
	Type test in accordance with EN ISO 7291
	Additional life cycle test
<b>Approvals during development:</b>	Electrostatic chargeability test <ul style="list-style-type: none"> <li>• Fulfills requirements according to ISO 80079-36; IEC TS 60079-32-1 and German TRGS 727</li> <li>• Usable in EX-areas zones 1 and 2 for gases with explosion risk group I; IIA; IIB; IIC</li> </ul>

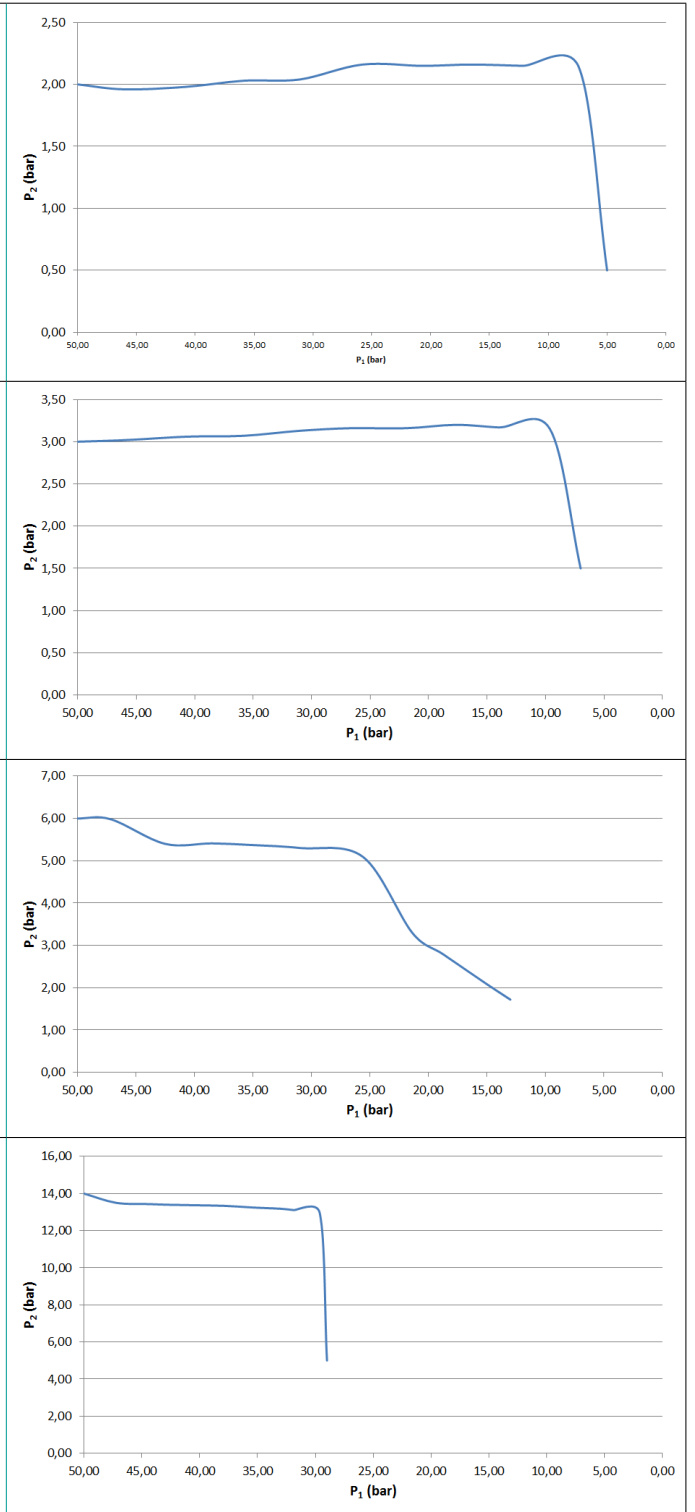
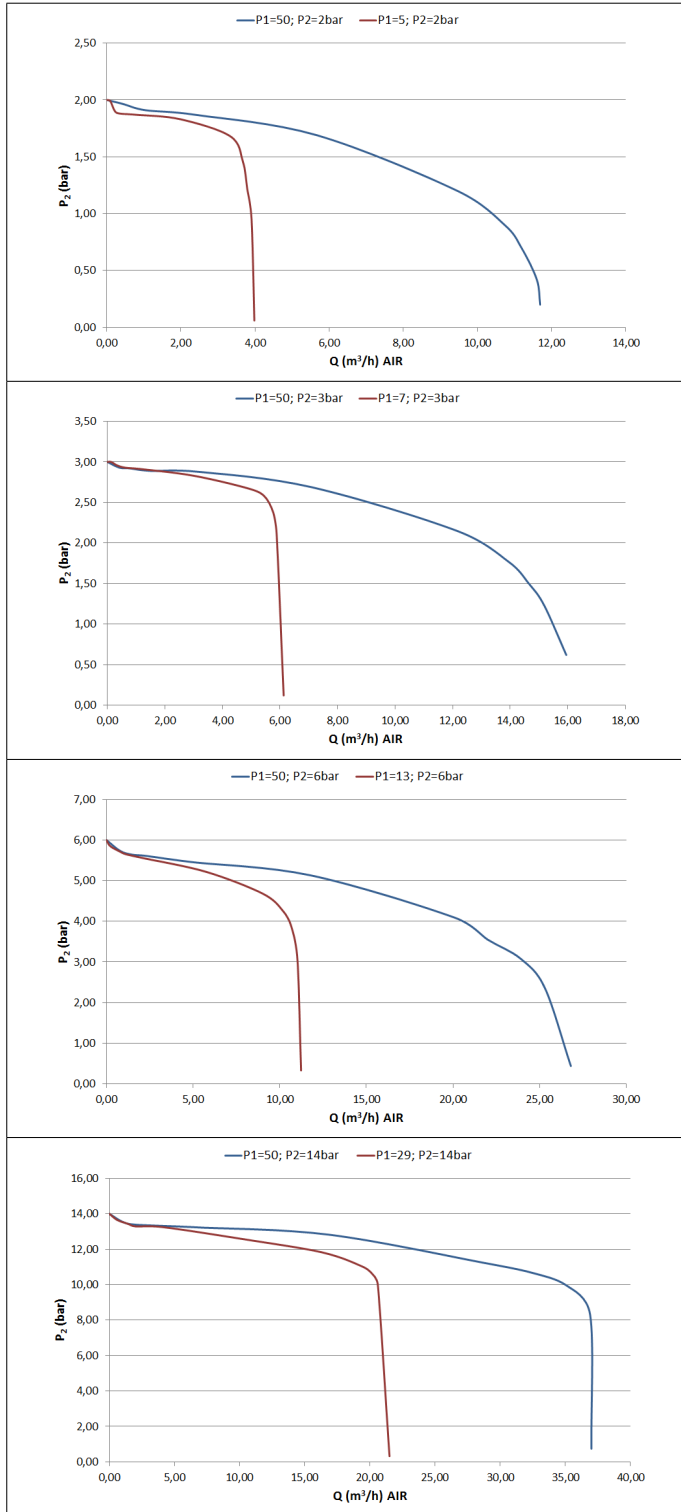
FLOW CURVES:

DYNAMIC EXPANSION CURVES:

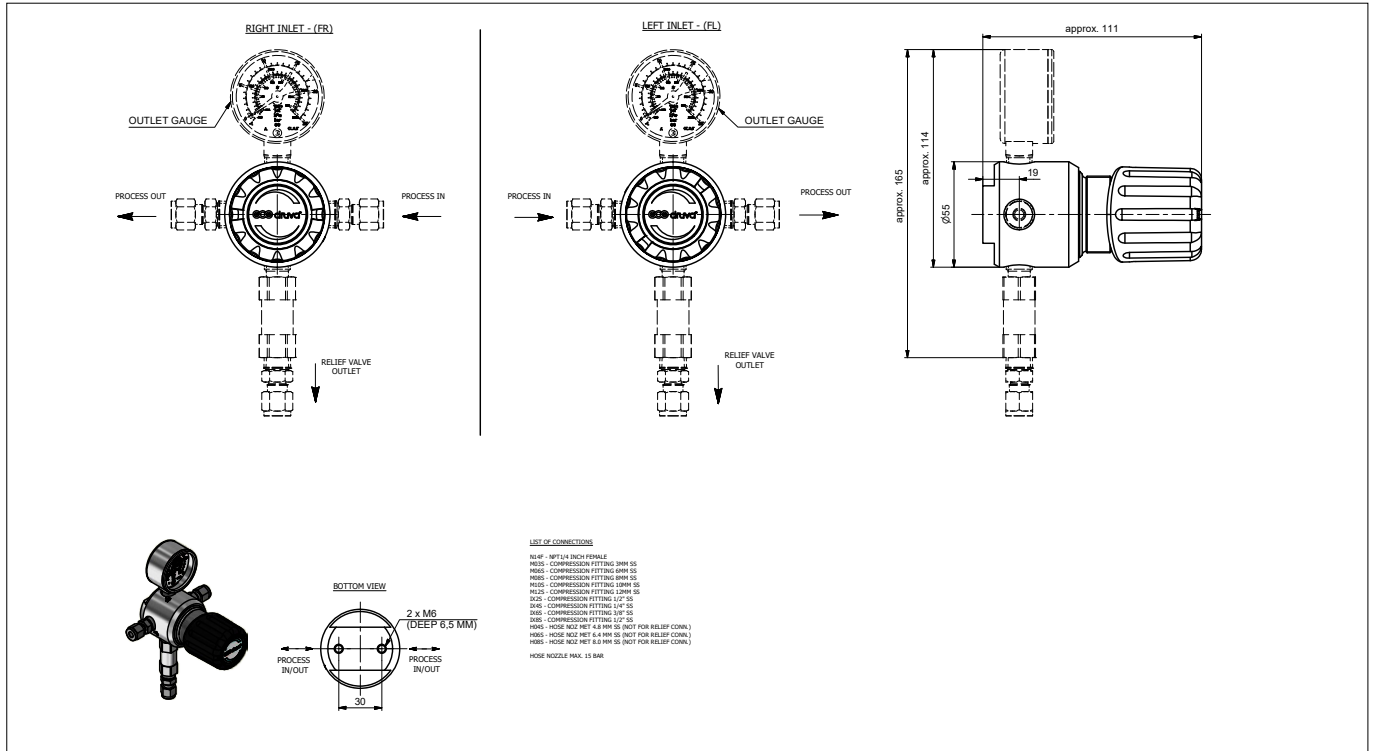


FLOW CURVES:

DYNAMIC EXPANSION CURVES:



TECHNICAL DRAWING:



ORDER CODE:

Example Line Regulator | PUR Linie | Stainless Steel | Low Flow | High Pressure | Single Stage | 4-Port Version

LSLH0SF LSLHESF	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	Outlet 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			00 Without 1/4" NPT female	0001 – if no safety device is chosen
	L Inlet left	F4 60 bar	BX 3 bar		01 Without (plugged)			01 Without (plugged)	possible connection if safety device RV is chosen
		FX 200 bar	CX 6 bar		BT Bourdon Tube gauge	possible connections see technical drawing	possible connections see technical drawing	RV Relief valve	
		GX 300 bar	D2 10 bar		I2 Inductiv contact gauge I2 **				
			DX 14 bar		R2 Reed contact gauge R2 **				
			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 **LSLH0SFRGXDX00BTN14FN14F000001**



Link to online product configurator