

# LSLHOSJ | LSLHESJ– DRUVA®PUR LINE REGULATOR

## LINE REGULATOR | PURE LINE (STAINLESS STEEL) | 20 m³ SERIES | HIGH PRESSURE RANGE

### SINGLE STAGE | 6-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.

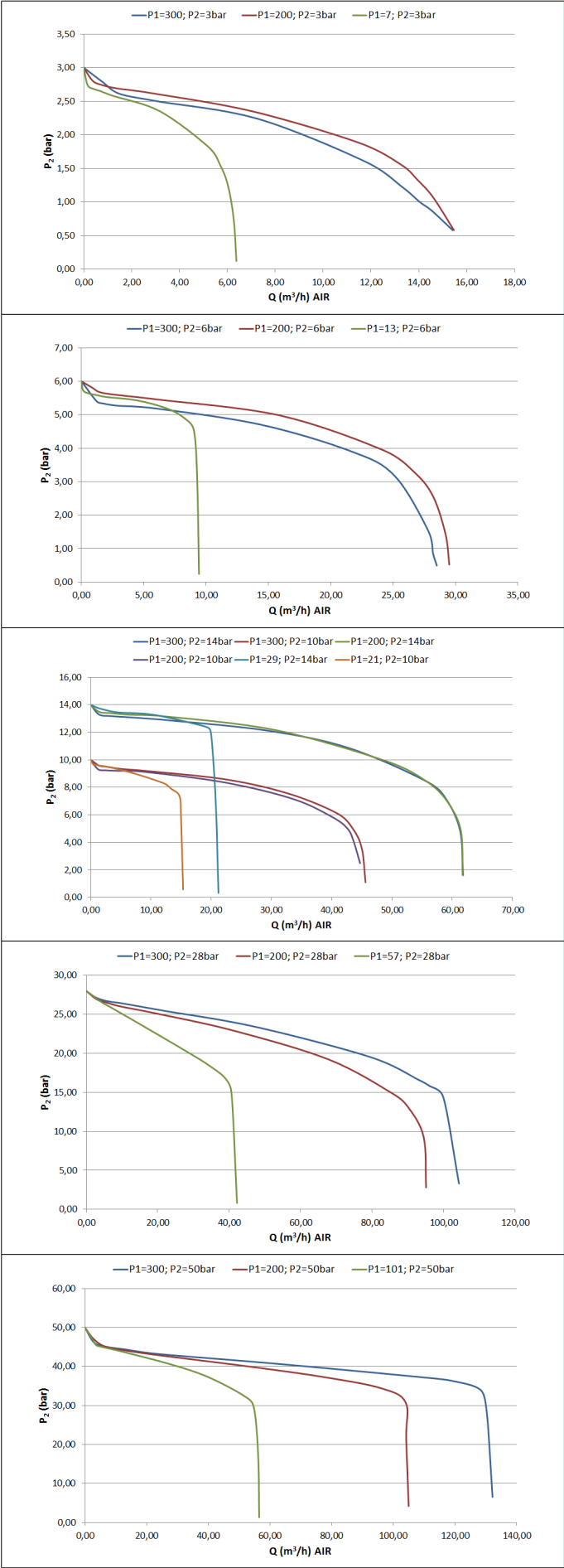


#### SPECIAL FEATURES:

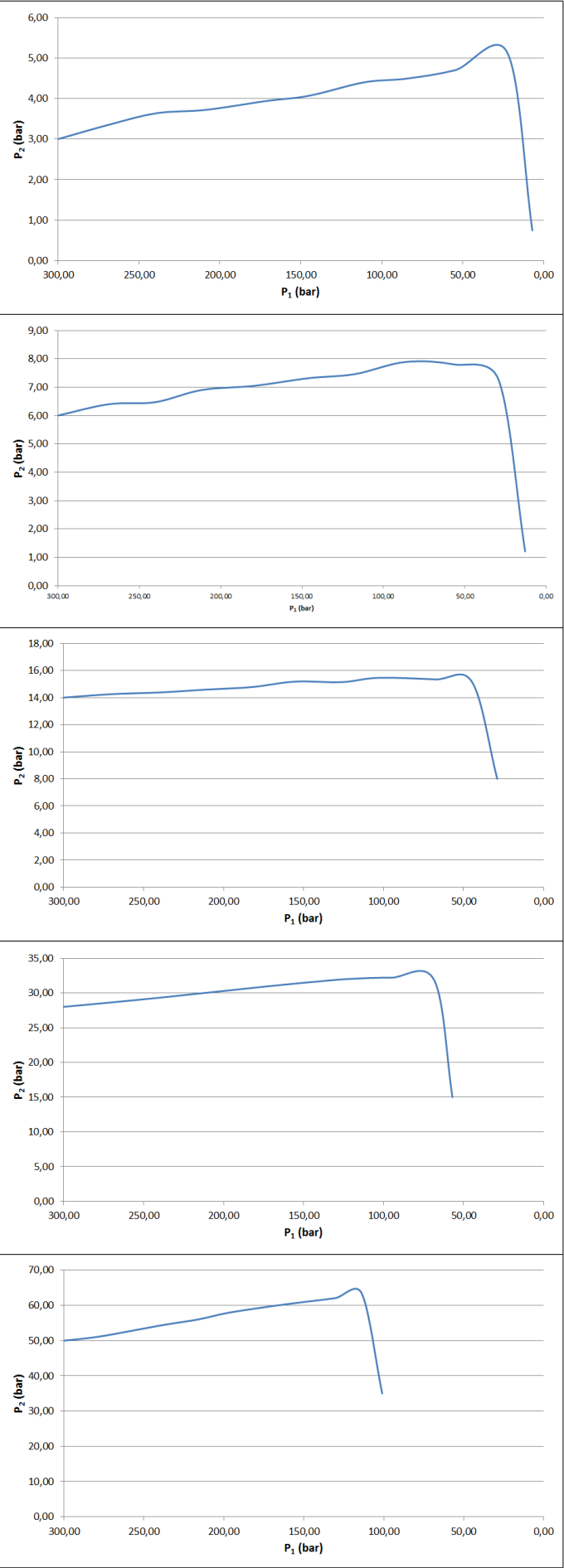
- > Hastelloy diaphragm tightening system to atmosphere
- > Compact design
- > Excellent pressure adjustment
- > Designed and approved regarding ISO 7291 (including O<sub>2</sub> ignition test)
- > Relief valve in delivery pressure side available
- > Electrostatic chargeability test
  - Fulfills requirements 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	
<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>	2,2 kg
<b>Flow nominal:</b>	20 m³/h (N <sub>2</sub> ) acc. to ISO 7291 at 20 bar outlet pressure and 41 bar inlet pressure
<b>Material gas wetted 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>	LSLHOSJ-Version: FKM LSLHESJ-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>	15,4 (10)/ 21,6 (14)/ 43,1 (28)/ 77 (50)/ 154 (100) 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) bar
<b>Test in production:</b>	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
<b>Approvals during development:</b>	Type test in accordance with ISO 7291
	Additional life cycle test
	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>

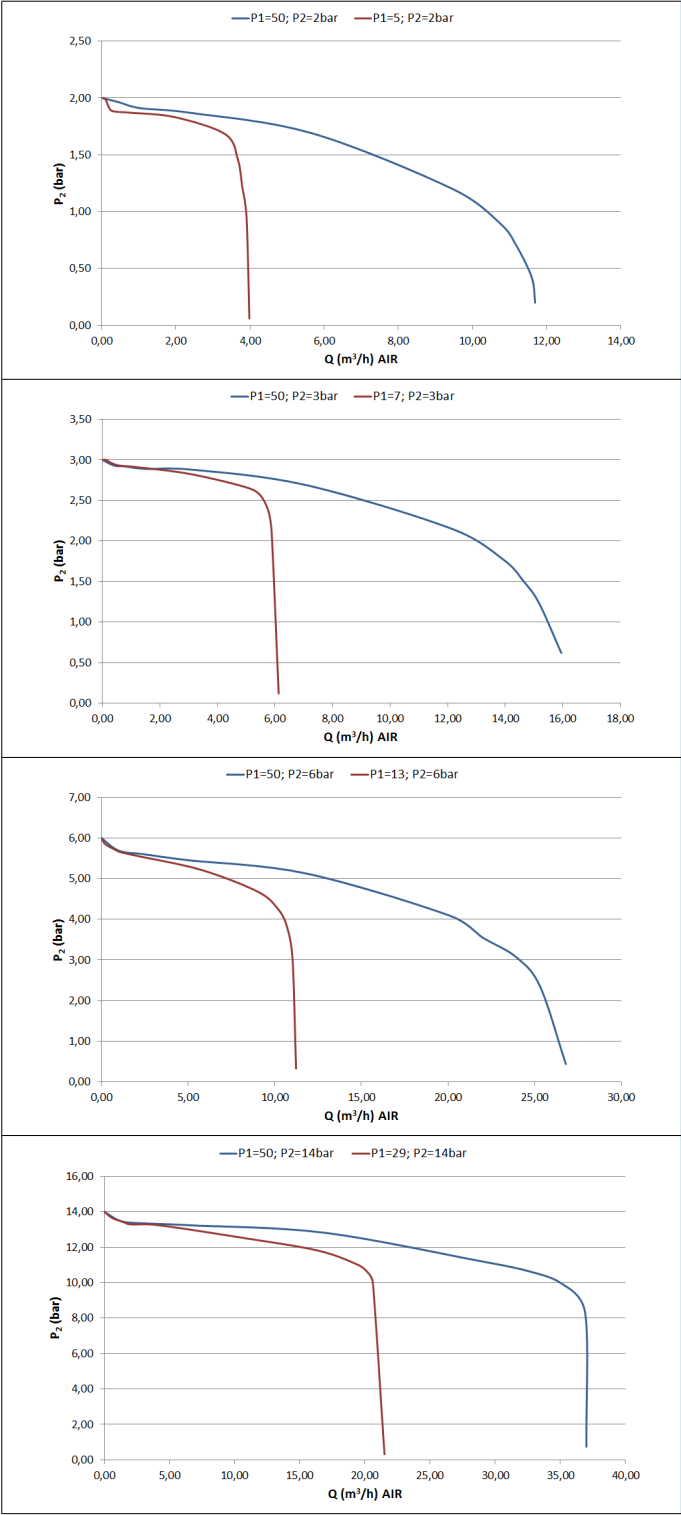
FLOW CURVES:



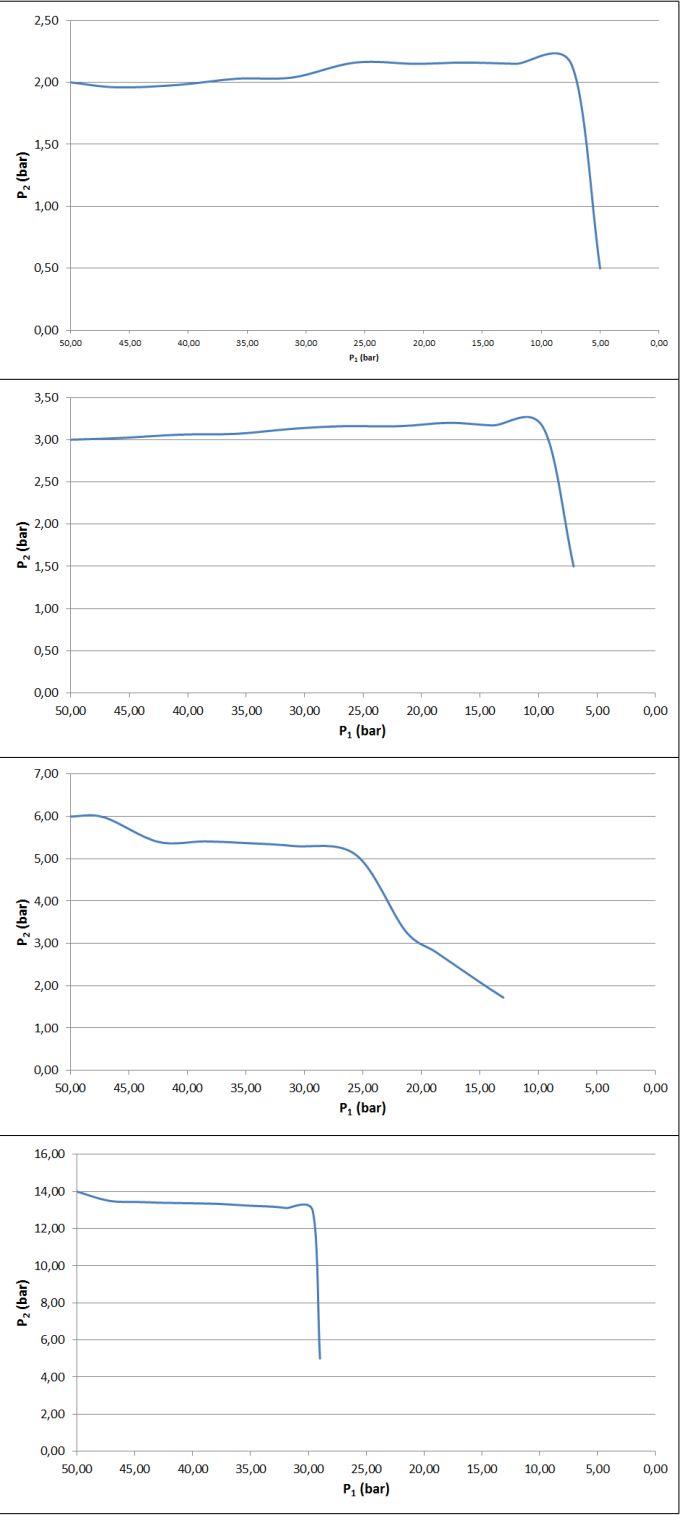
DYNAMIC EXPANSION CURVES:



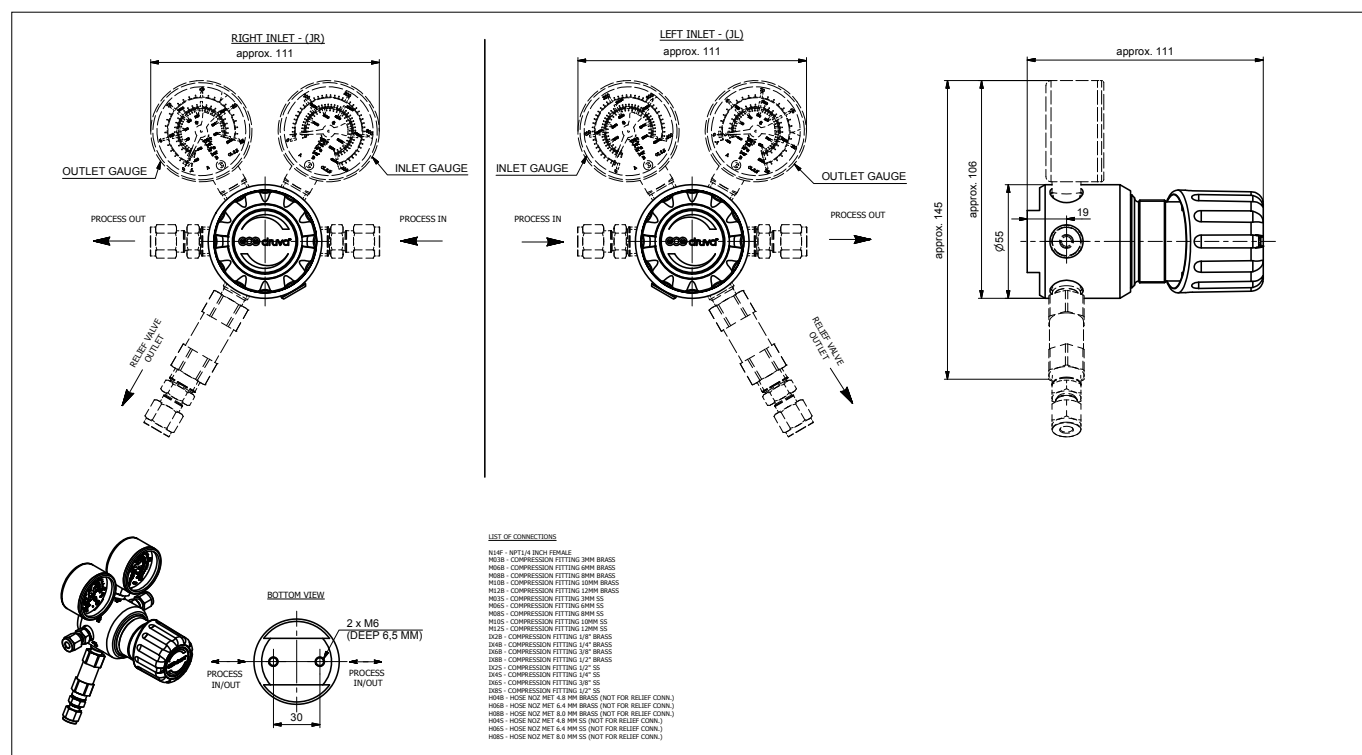
FLOW CURVES:



DYNAMIC EXPANSION CURVES:



### TECHNICAL DRAWING:



## ORDER CODE:

Example Line Regulator | PUR Linie | Stainless Steel | Low Flow | High Pressure | Single Stage | 6-Port Version

LSLH0SJ LSLHESJ	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 1/4" NPT female	00 Without 1/4" NPT female	possible connections	possible connections	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)			01 Without (plugged)			
		FX 200 bar	CX 6 bar	BT Bourdon Tube gauge	BT Bourdon Tube gauge			RV Relief valve			
		GX 300 bar	D2 10 bar	I1 Inductiv contact gauge I1	I2 Inductiv contact gauge I2 *			see technical drawing	see technical drawing		possible connection if safety device RV is choosen
			DX 14 bar	R5 Reed contact gauge R5	R2 Reed contact gauge R2 *						
			EY 28 bar		I1 Inductiv contact gauge I1						
			EX 50 bar								
			F2 100 bar								
			FX 200 bar					see technical drawing			

\* Only for outlet pressure lower than 200 bar

Order code (as described above) without special characters or spaces! Complete Order Code **LSLH0SJRGXDX00BTN14FN14F000001**



Link to online product configurator