

LPLHOSJ | LPLHESJ – DRUVA® PUR LINE REGULATOR

LINE REGULATOR | PURE LINE (BRASS CHROME PLATED) | LOW FLOW 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 gases and gas mixtures up to gas purity 6.0. It is not usable for corrosive and / or toxic gases and their mixtures.



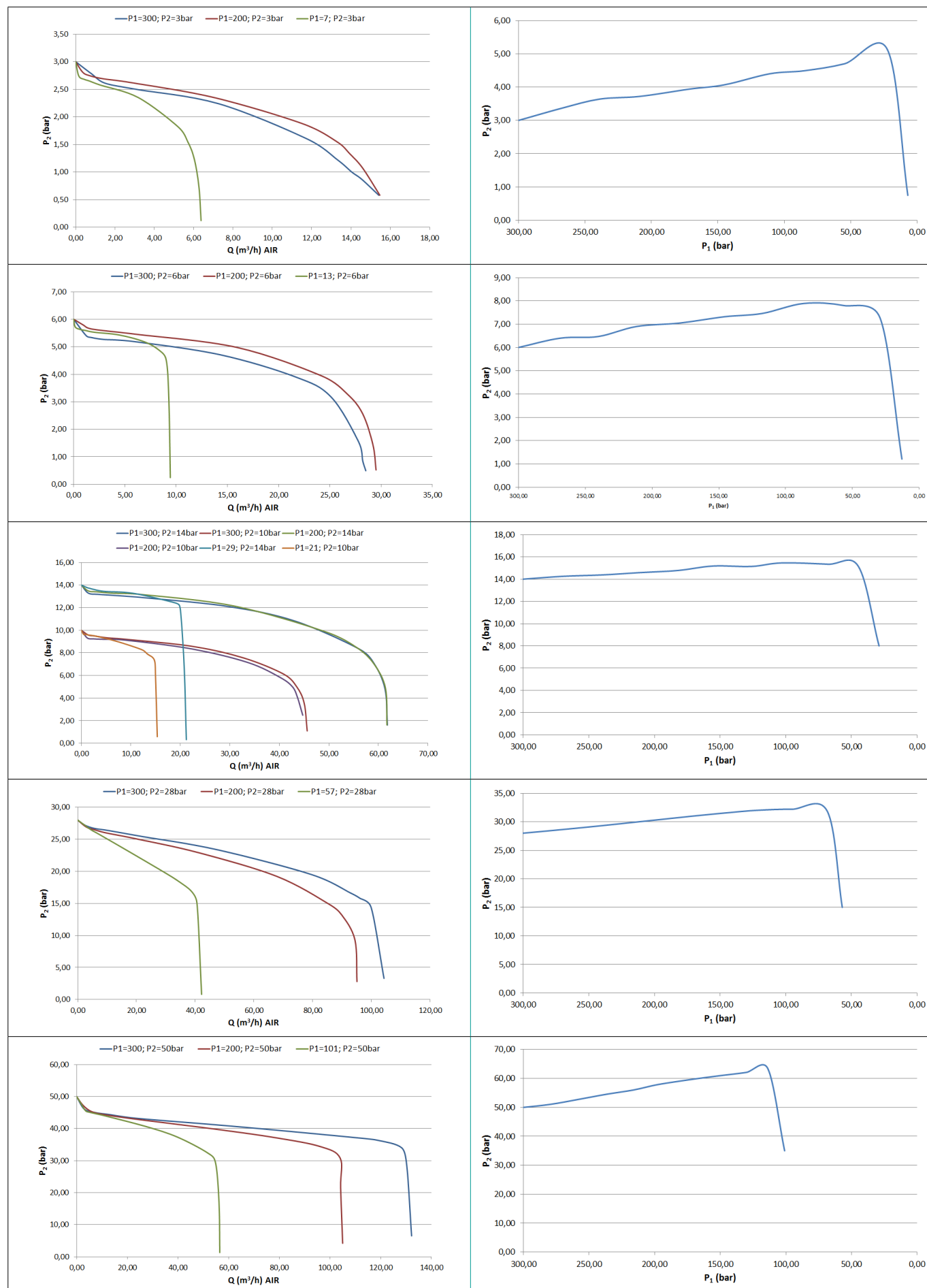
SPECIAL FEATURES:

- > Hastelloy diaphragm tightening system to atmosphere
- > Compact design
- > Excellent pressure adjustment
- > Designed and approved regarding ISO 7291 (including O₂ 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

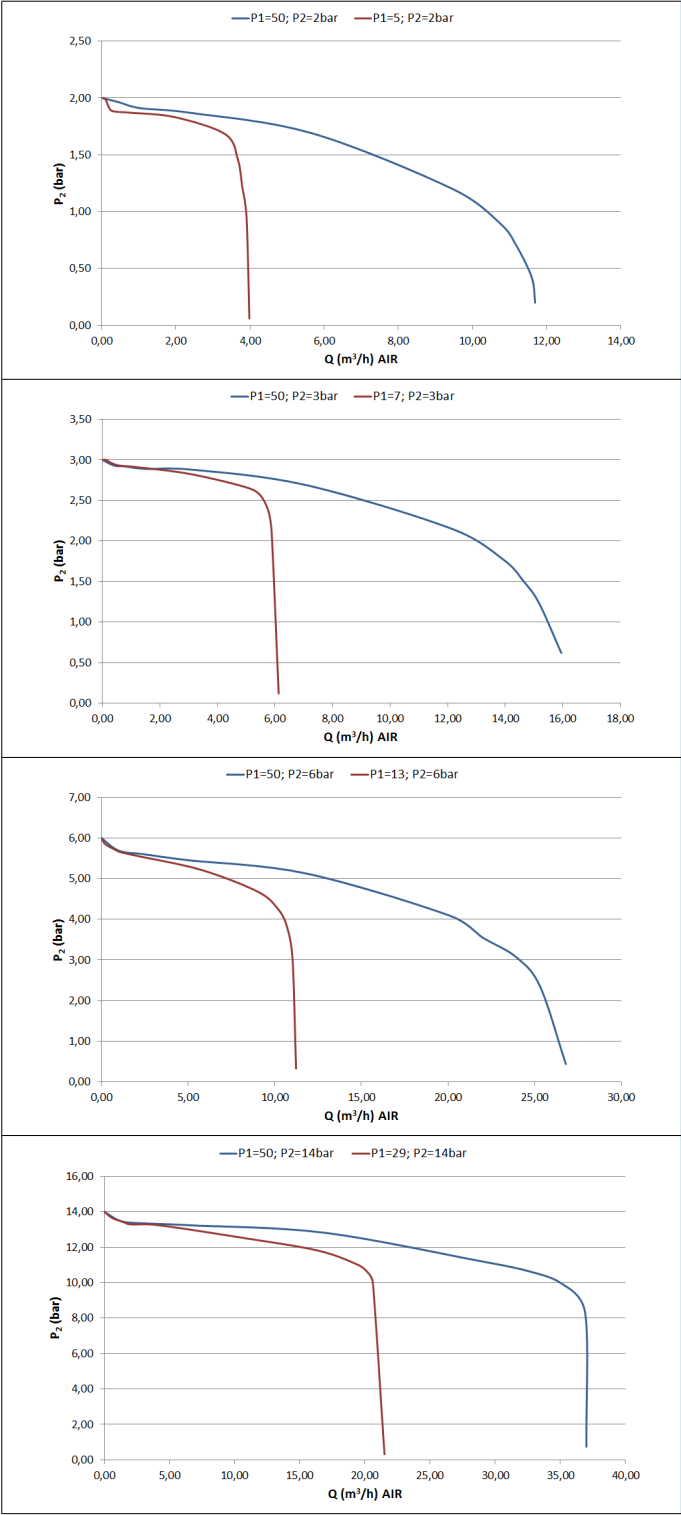
TECHNICAL DATA	
Working temperature:	-20 °C to +60 °C
Inlet / outlet ports:	See technical drawing
Leakage rate seat:	<5x10 ⁻⁶ mbar l/s (Helium)
Leakage rate outside:	<1x10 ⁻⁹ mbar l/s (Helium)
Filter:	1x for inlet 1x for each outlet
Weight:	1,39 kg
Flow nominal:	20 m ³ /h (N ₂) according to ISO 7291 at 20 bar out & 41 bar in
Material gas wetted parts:	
Regulator body:	Brass chrome plated
Regulator diaphragm:	Hastelloy
Regulator seat:	PCTFE (P in > 50 bar) PTFE (P in ≤ 50 bar)
Relief valve seat:	LPLHOSJ-Version: FKM LPLHESJ-Version: 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
	O ₂ ignition test regarding ISO 7291
	Additional life cycle test
	Electrostatic chargeability test
	<ul style="list-style-type: none"> • Fulfills 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

FLOW CURVES:

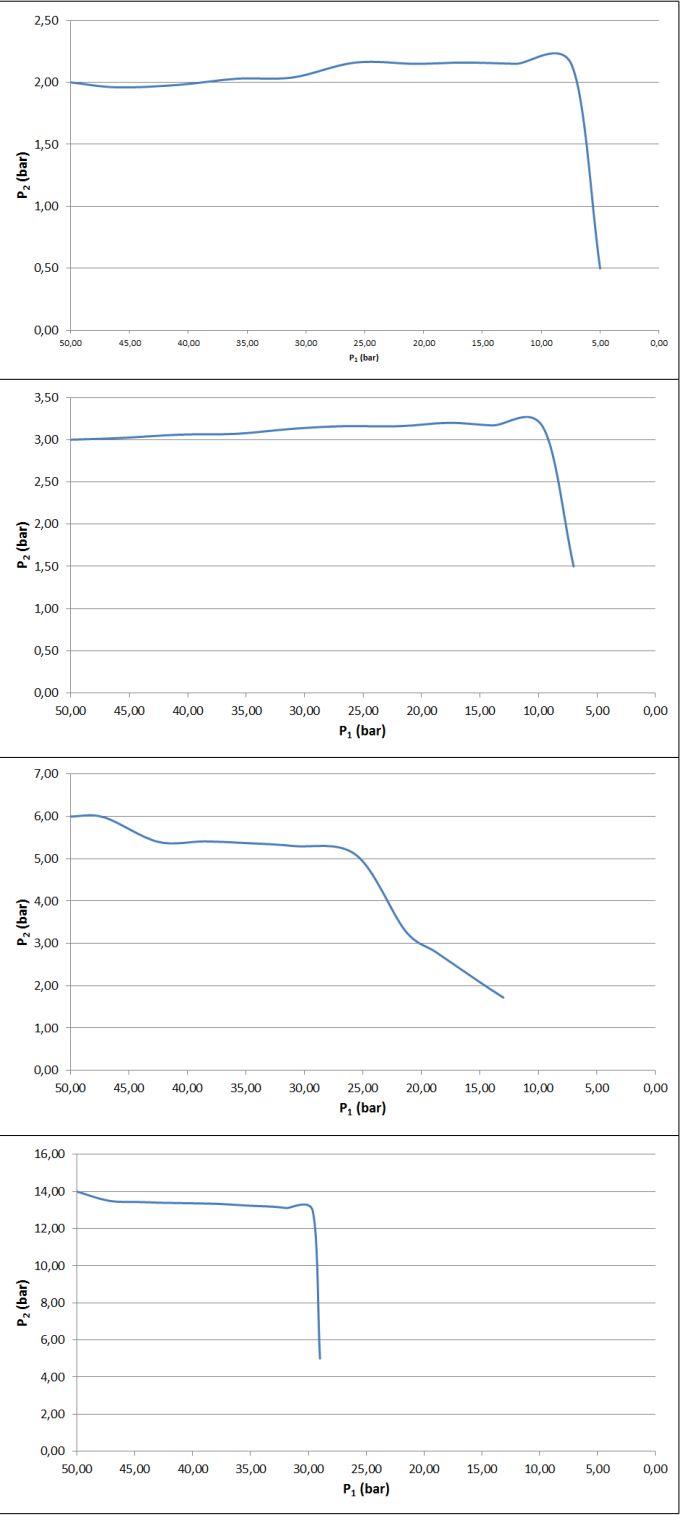
DYNAMIC EXPANSION CURVES:



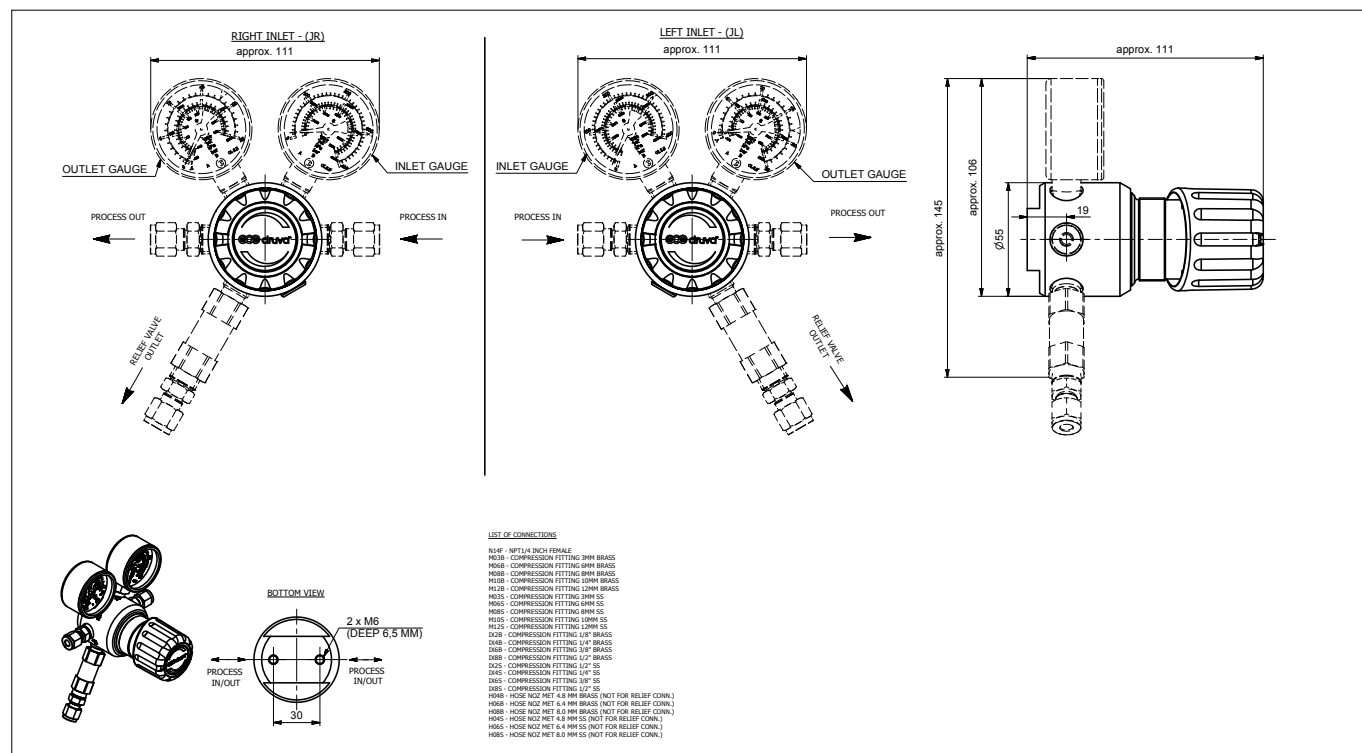
FLOW CURVES:



DYNAMIC EXPANSION CURVES:



TECHNICAL DRAWING:



ORDER CODE:

Example Line Regulator | PUR Linie | Brass Chrome Plated | Low Flow | High Pressure | Single Stage | 6-Port Version

LPLH0SJ LPLHESJ		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 see technical drawing	possible connections see technical drawing	00 Without 1/4" NPT female	0001 – if no safety device is choosen possible connection if safety device RV is choosen see technical drawing	
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 *					
			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							

* Only for outlet pressure < 200 bar

Order code (as described above) without special characters or spaces! Complete Order Code **LPLH0SJRGXDX00BTN14FN14F000001**



Link to online product configurator