MPLHOXSO | MPLHEXSO – DRUVA® PUR MANIFOLD MANIFOLD | PURE LINE (BRASS CHROME PLATED) | 20 m³ SERIES | HIGH PRESSURE RANGE | SINGLE STAGE

This manifold is used in gas supply systems for pure, inert, flammable, oxidising gases and gas mixtures. It is not usable for corrosive and / or toxic gases and their mixtures.





Type MPLH0XS**000** 00 Without HP & LP Valve 0 Without Specials

TECHNICAL SPECIFICATION:

- > Manifold for one gas cylinder or bundle
- > Regulator and Valves Hastelloy/Elgiloy diaphragm tighting system to atmosphere
- > Compact design
- > Excellent pressure adjustment
- Valves designed and approved in accordance with relevant sections of ISO 10297:2015 (including O₂ ignition test for main valve)
- > Regulator designed and approved regarding ISO 7291 (including O2 ignition test)
- > Relief valve in delivery pressure side
- > Available with shut-off valve at outlet, safety valve at outlet, check valve at inlet
- > 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

SPECIAL FEATURES OF MANIFOLD:

- > Splitted plates of manifold
- > Seperated mounting of ground plate
- > Easy mounting of manifold to ground plate and fix with one screw only
- > Front plate cutout for in-field gauge replacement

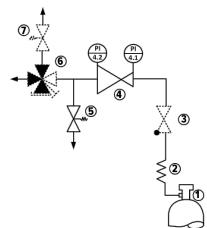
-20 °C to +60 °C					
see technical drawing					
<5x10 ⁻⁶ mbar I/s (Helium)					
<1x10 ^{.9} mbar I/s (Helium)					
max 4,56 kg					
$20m^3/h$ (N_2) acc. to ISO 7291 at 20 bar outlet pressure and 41 bar inlet pressure					
300 bar					
3 6 10 14 28 50 100 200 bar					
1x for inlet 1x for each outlet					
Brass chrome plated					
Hastelloy					
PCTFE					
FKM EPDM					
Brass					
5 (3) 10 (6) 18 (10) 25 (14) 40 (28) 80 (50) 160 (100) 315 (200) bar					
tact us					
4,6 (3) 9,2 (6) 15,4 (10) 21,6 (14) 43,1 (28) 65 (50) 154 (100) 308 (200) bar					
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					



Type MPLH0XS**00U** 00 Without HP & LP Valve U **Specials** Check Valve & Safety Valve



Type MPLH0XS**0SU** OS LP Shut-off Valve U **Specials** Check Valve & Safety Valve



1 –Gas cylinder

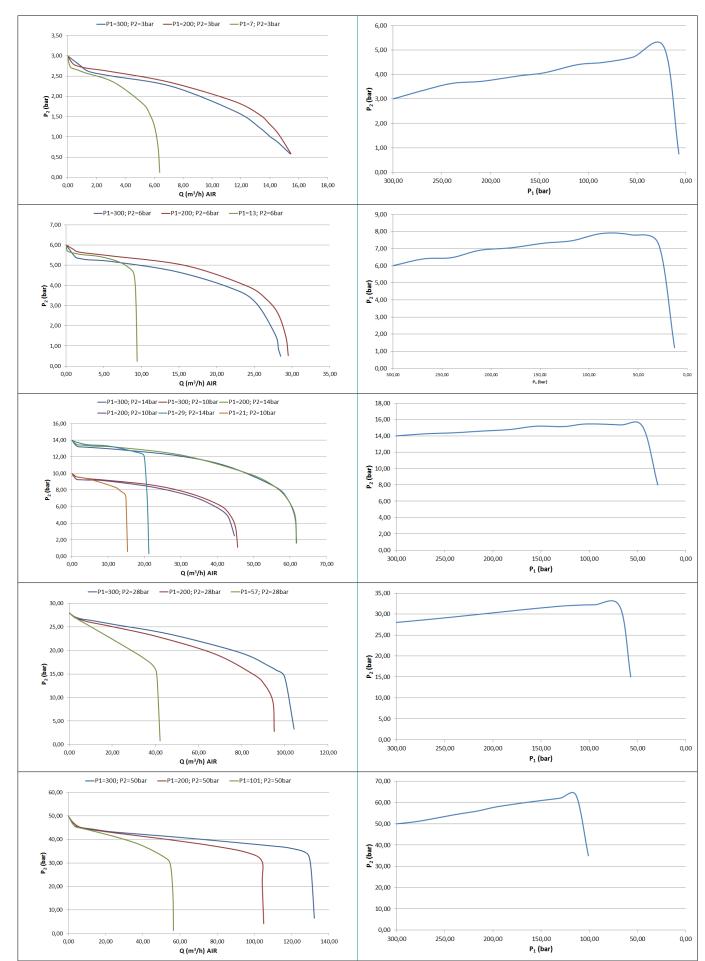
- 2 Coil/hose
- 3 Check valve
- $4\,-Pressure\ regulator\ with\ in/out\ gauge$
- 5 Relief valve
- 6 Shut-off valve (1xin, 3xout)
- 7 Safety valve

Options & specials are shown as dotted line

	Type test in accordance with ISO 7291					
	O2 ignition test in accordance with ISO 7291					
	Additional life cycle test					
Approvals during development:	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					
TECHNICAL DATA - VALVES						
Max. working pressure:	300 bar					
Kv-value:	0,25					
Seat diameter:	5 mm					
Leakage rate seat:	<5x10 ⁻⁶ mbar I/s (Helium)					
Leakage rate outside:	<1x10 ⁻⁹ mbar l/s (Helium)					
Filter:	1x for each inlet					
	1x for each outlet					
Material gas wetted parts:	Proce chrome ploted					
Valve body:	Brass chrome plated 4-Port: 1x Hastelloy, 1x Elgiloy					
Valve diaphragm:	2-Port: 2x Elgiloy					
Valve seat:	PCTFE					
Valve poppet:	Brass					
	Pressure test with Helium of each item					
Test in production:	Seat leakage test with Helium of each item					
	Helium leak test of each valve against atmosphere					
	Test of functionality of each item					
	Type test in accordance with relevant sections of ISO 10297:2015					
	O2 ignition test regarding ISO 10297 for main shut-off valve					
Approvals during development:	 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 					
TECHNICAL DATA - PLATES						
	Stainless Steel (polished) Option to secure arrestor cable of hoses with hook on ground plate.					
Ground plate:	Grounding bolt					
	Cut outs on top and bottom allows installation					
Dimensions ground plate: (Height x Width x Length)	194 x 30 x 230 mm					
	Stainless Steel (polished)					
Front plate:	Cut outs for easy replacement of gauges Free space for additional installer label (e.g. remark for next maintenance)					
Dimensions front plate:	194 x 30 x 230 mm					
(Height x Width x Length)						
Marking on panel:	Product range label QR-Code – link to online product configurator					
	· · · · ·					
TECHNICAL DATA - SAFETY VALVES (S)						
SAFETT VALVES (5)	Spring loaded according P.E.D. 2014/68/EU and AD2000 (A2)					
Opening pressure:	4,51 91 151 211 42 bar					
Leakage rate:	4,51 51 51 21 42 bai < 5 x 10 ⁻⁶ mbar l/s (valve seat) at nominal pressure of receiver					
Leakaye late.						

Leakage rate:	< 5 x 10° mbar I/s (valve seat) at nominal pressure of receiver Housing and metal parts made of brass, pressure spring made of stainless steel				
Material:					
Seat and seal:	FKM				
Outlet connection:	NPT ½" female				

3 | Central Gas Systems / Druva PUR



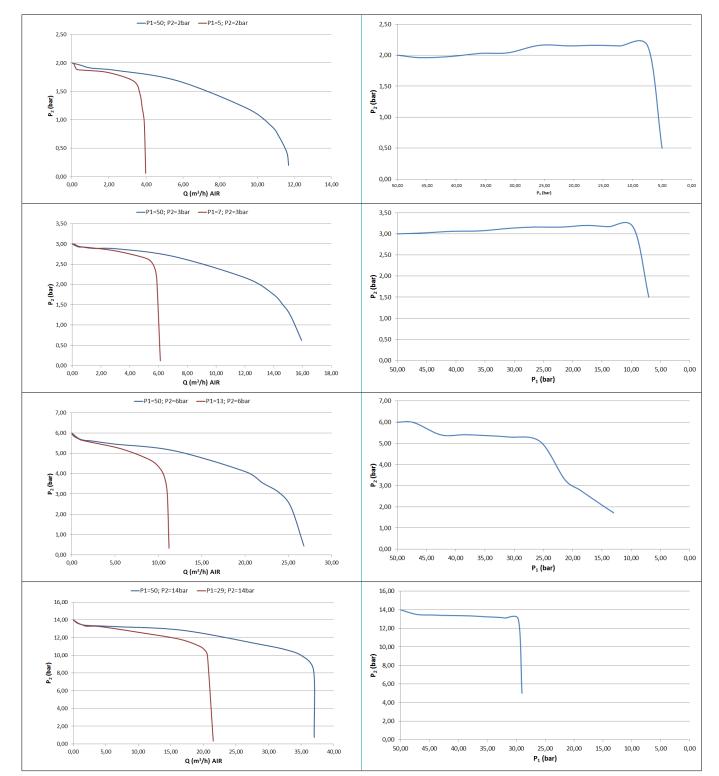
DYNAMIC EXPANSION CURVES:

GCE CENTRAL GAS SYSTEMS

FLOW CURVES:

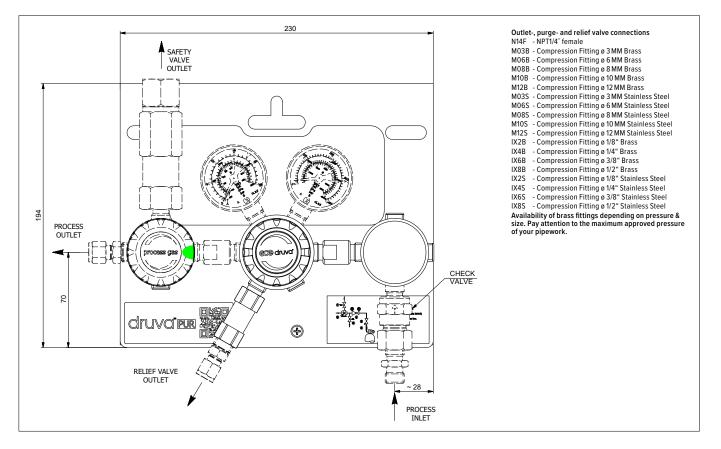
GCE CENTRAL GAS SYSTEMS

FLOW CURVES:

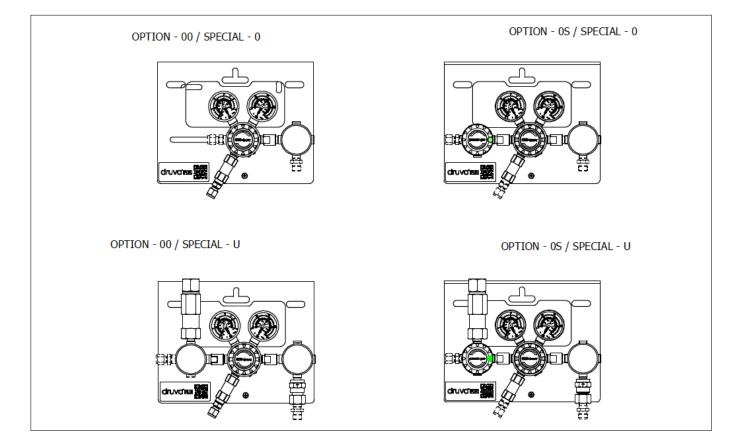


DYNAMIC EXPANSION CURVES:

TECHNICAL DRAWING:



TECHNICAL DRAWING - VARIANTS:



ORDER CODE:

Example for: Manifold | PUR Linie | Brass Chrome Plated | Low Flow (20 m²/h) | Single Stage

MPLH0X MPLHEX	S	0S	С	FX	F2	BT	BT	N14F	N14F (1/4" NPT female)	N14F (1/4" NPT female)		
	Stages	Options	Specials	Inlet pressure (bar)	Outlet pressure (bar)	Inlet pressure gauge	Outlet pressure gauge	Process inlet connection	Process outlet connection	Purge & relief connection		
	S Single stage	00 Neither HP nor LP valve	0 Without	F4 60	BX 3	BT Bourdon Tube	BT Bourdon Tube	N14F 1/4" NPT female	2			
		OS LP Shut-off valve	C Check valve	FX 200*	CX 6	I1 Inductiv contact gauge I1	I2 Inductiv contact gauge I2 **	M14M Metric 14x1.5 male				
			S Safety valve	GX 300	D2 10	R5 Reed contact gauge R5	R2 Reed contact gauge R2 **			possible		
			U Check valve + safety valve		DX 14		I1 Inductiv contact gauge I1			connections	connections	
					EY 28					drawing		
					EX 50							
					F2 100							
					FX 200*							

* Inlet-and outlet pressure 200 bar not available with pressure relief valve (PRV) ** Only for oulet pressure 200 bar Order code (as described above) without special characters or spaces! Complete Order Code MPLH0XS0SCFXF2BTBTN14FN14FN14F