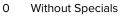
MPLHOMSS | MPLHEMSS - DRUVA®PUR MANIFOLD MANIFOLD | PURE LINE (BRASS CHROME PLATED) | 20 m³ SERIES HIGH PRESSURE RANGE | MANUAL CHANGE OVER | SINGLE STAGE | HIGH PRESSURE SHUT-OFF VALVE



This manifoldis 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 MPLH0MSS00 S0 HP Shut-off Valve 0





Type MPLH0MSS0U HP Shut-off Valve S0

U **Specials**

Check Valve & Safety Valve



Type MPLH0MSSSU SS HP Shut-off Valve &

LP Shut-off Valve U

Specials Check Valve & Safety Valve

TECHNICAL SPECIFICATION:

- > Switching between two sources by manual valve actuation
- > 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
- > Manifold with process inlet shut-off valve
- > 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

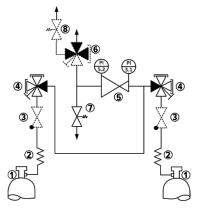
_ I

- > 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

TECHNICAL DATA - MANIFOLD	
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 I/s (Helium)
Weight:	max 5,92 kg
Flow nominal:	$20m^3/h$ (N_2) acc. to ISO 7291 at 20 bar outlet pressure and 41 bar inlet pressure
Pressure rates manifold:	
Max. inlet pressure:	300 bar
Delivery pressure:	3/ 6/ 10/ 14/ 28/ 50/ 100/ 200 bar

TECHNICAL DATA - REGULATOR					
Filter:	1x for inlet				
	1x for each outlet				
Material gas wetted parts:					
Regulator body:	Brass chrome plated				
Regulator diaphragm:	Hastelloy				
Regulator seat:	PCTFE				
Relief valve seat:					
MPLH0MSS Version	FKM				
MPLHEMSS Version	EPDM				
Regulator poppet:	Brass				
Pressure gauges rates (pressure rates):	5 (3)/ 10 (6)/ 18 (10)/ 25 (14)/ 40 (28)/ 80 (50)/ 160 (100)/ 315 (200) bar				
Contact gauges available – please con	itact us				
Cracking pressure relief valves:	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				
Test in production:	Helium leak test of each regulator against atmosphere				
	Test of functionality of each item				

1 | Central Gas Systems / Druva PUR



1 –Gas cylinder

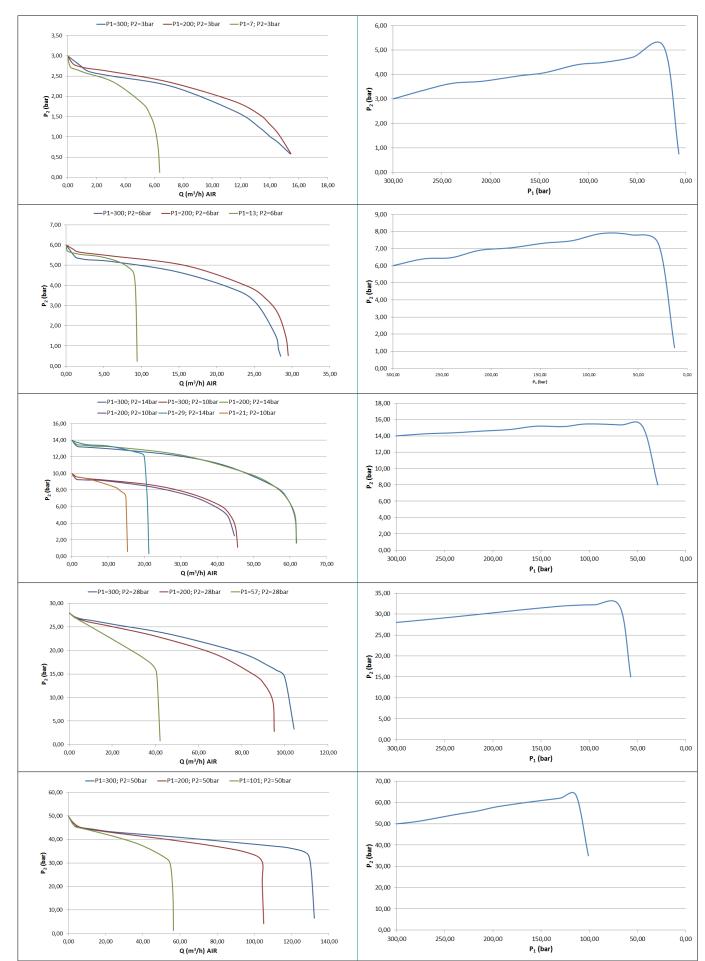
- 2 Coil/Hose
- 3 Check valve
- 4 Shut-off Valve (3xin, 1xout)
- 5 Pressure regulator
- 6 Shut-off valve (1xin, 3xout)
- 7 Relief valve
- 8 Safety valve

Options & specials are shown as dotted line

	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 I/s (Helium)					
Filter:	1x for each inlet 1x for each outlet					
Material gas wetted parts:						
Valve body:	Brass chrome plated					
Valve diaphragm:	4-Port: 1x Hastelloy, 1x Elgiloy 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					
lest in production.	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					
	O_2 ignition test regarding EN 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						
Ground plate:	Stainless Steel (polished) Option to secure arrestor cable of hoses with hook on ground plate. Grounding bolt Cut outs on top and bottom allows installation					
Dimensions ground plate: (Height x Width x Length)	194 x 30 x 250 mm					
Front plate:	Stainless Steel (polished) Cut outs for replacement of gauges Free space for additional installer label (e.g. remark for next maintenance)					
Dimensions front plate: (Height x Width x Length)	194 x 30 x 250 mm					
Marking on panel:	Product range label QR-Code – link to online product configurator					
TECHNICAL DATA - SAFETY VALVES (S)						
	Spring loaded according P.E.D. 2014/68/EU and AD2000 (A2)					
Opening pressure:	4,5/ 9/ 15/ 21/ 42 bar					
Leakage rate:	$< 5 \times 10^{-6}$ mbar l/s (valve seat) at nominal pressure of receiver					
Material:	Housing and metal parts made of brass, pressure spring made of stainless steel					
Seat and seal:	FKM					
Outlet connection:	NPT ½" female					

Type test in accordance with ISO 7291

3 | Central Gas Systems / Druva PUR

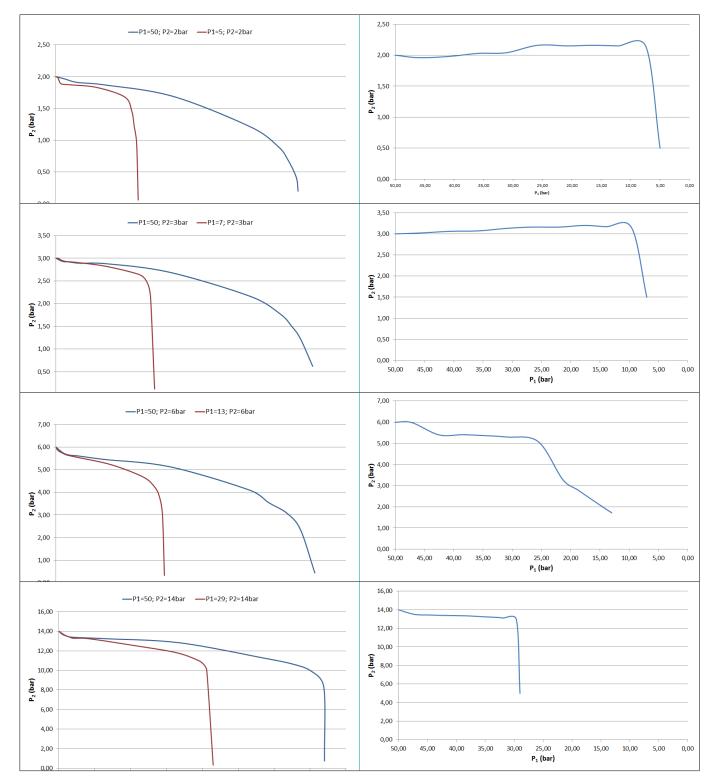


DYNAMIC EXPANSION CURVES:

GCE CENTRAL GAS SYSTEMS

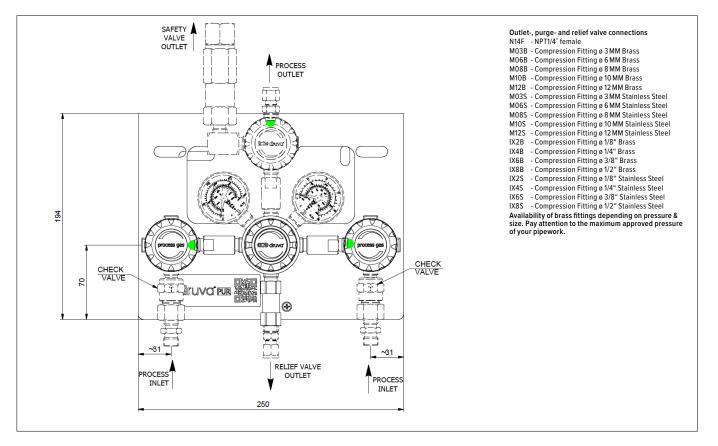
FLOW CURVES:

FLOW CURVES:

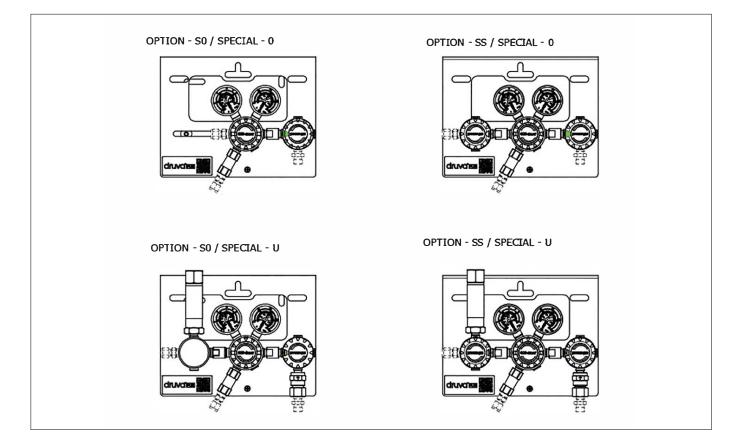


DYNAMIC EXPANSION CURVES:

TECHNICAL DRAWING:



TECHNICAL DRAWING - VARIANTS:



ORDER CODE:

Example Manifold | PUR Linie | Brass Chrome Plated | Low Flow | Manual Change Over | Single Stage | High Pressure Shut-off Valve

MPLHOM MPLHEM	S	SO	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	S0 HP Shut-off valve	0 without	F4 60	BX 3	BT Bourdon Tube gauge	BT Bourdon Tube gauge	N14F 1/4" NPT female		
		SS HP Shut-off valve 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	possible
			U Check valve + safety valve		DX 14		I1 Inductiv contact gauge		connections see technical	connections
					EY 28				drawing	drawing
					EX 50					
					F2 100					
					FX 200					

* Only for oulet pressure 200 bar

Order code (as described above) without special characters or spaces! Complete Order Code MPLHOMSSOCFXF2BTBTN14FN14FN14FN14F