

MPLHOMSP | MPLHEMSP – DRUVA®PUR MANIFOLD

MANIFOLD | PURE LINE (BRASS CHROME PLATED) | 20M³ SERIES

HIGH PRESSURE RANGE | MANUAL CHANGE OVER | SINGLE STAGE | PROCESS GAS PURGING



This manifold 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.



Type MPLHOMSP00
P0 HP Purge Valve
0 Without Specials



Type MPLHOMSP0U
P0 HP Purge Valve
U Specials
Check Valve & Safety Valve



Type MPLHOMSPSU
PS HP Purge 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 tightening system to atmosphere
- > Compact design
- > Excellent pressure adjustment
- > Relief valve in delivery pressure side
- > Manifold with purge valve for process gas purging
- > Available with shut-off valve at outlet, safety valve at outlet, check valve at inlet

TECHNICAL DATA – MANIFOLD

Working temperature:	-20 °C to +60 °C
Inlet/ outlet ports:	see technical drawing
Leakage rate seat:	≤ 1x10 ⁻⁶ mbar l/sec He
Leakage rate outside:	≤ 1x10 ⁻⁹ mbar l/sec He
Weight:	max 6,82 kg
Flow nominal:	20 m 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

For detailed information on tests and approvals during development and production of our TEC/PUR series see **DATA-SpecGeneral-EN**.

For flow curves see **DATA-FlowCurves-EN**.

TECHNICAL DATA - PRESSURE REGULATOR

LPLH0SJ | LPLHESJ
see separate data sheet

TECHNICAL DATA - SHUT-OFF VALVES

VPLDSMAR – 2-PORT
VPLDSMIR – 4 PORT (3X INLET – 1X OUTLET)
VPLDSMFR – 4 PORT (1X INLET – 3X OUTLET)
see separate data sheets

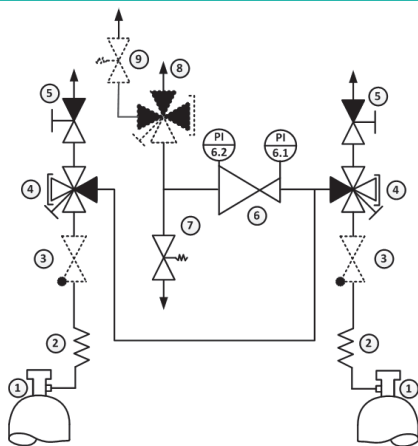
TECHNICAL DATA – PLATES

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 easy 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:	≤ 1x10 ⁻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

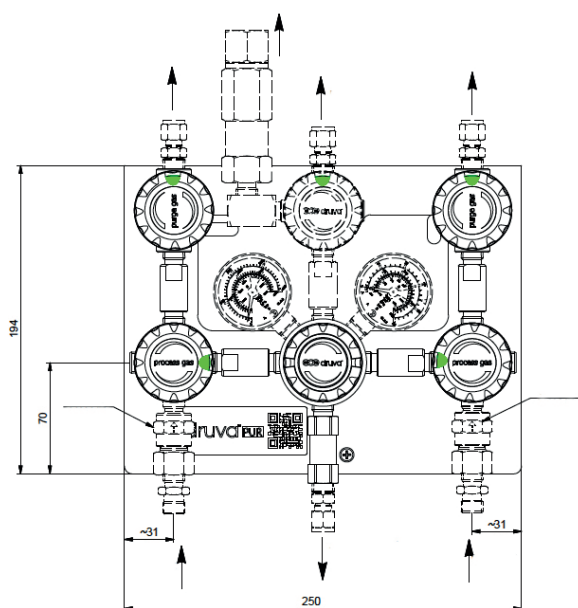
FLOW SCHEMATIC



- 1 – Gas cylinder
- 2 – Coil/Hose
- 3 – Check valve
- 4 – Shut-off valve (3xin, 1xout)
- 5 – Purge outlet valve
- 6 – Pressure regulator
- 7 – Relief valve
- 8 – Shut-off valve (1xin, 3xout)
- 9 – Safety valve

Options & specials are shown as dotted line

TECHNICAL DRAWING



Outlet-, purge- and relief valve connections

- N14F - NPT1/4" female
- M03B - Compression Fitting ø 3 MM Brass
- M06B - Compression Fitting ø 6 MM Brass
- M08B - Compression Fitting ø 8 MM Brass
- M10B - Compression Fitting ø 10 MM Brass
- M12B - Compression Fitting ø 12 MM Brass
- M03S - Compression Fitting ø 3 MM Stainless Steel
- M06S - Compression Fitting ø 6 MM Stainless Steel
- M08S - Compression Fitting ø 8 MM Stainless Steel
- M10S - Compression Fitting ø 10 MM Stainless Steel
- M12S - Compression Fitting ø 12 MM Stainless Steel
- IX2B - Compression Fitting ø 1/8" Brass
- IX4B - Compression Fitting ø 1/4" Brass
- IX6B - Compression Fitting ø 3/8" Brass
- IX8B - Compression Fitting ø 1/2" Brass
- IX2S - Compression Fitting ø 1/8" Stainless Steel
- IX4S - Compression Fitting ø 1/4" Stainless Steel
- IX6S - Compression Fitting ø 3/8" Stainless Steel
- IX8S - Compression Fitting ø 1/2" Stainless Steel

Availability of brass fittings depending on pressure & size. Pay attention to the maximum approved pressure of your pipework.

ORDER CODE

Example Manifold | PUR Linie | Brass Chrome Plated | Low Flow | Manual Change Over | Single Stage | Process Gas Purging

MPLH0M MPLHEM	S	P0	C	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	P0 HP int. gas purge	0 without	F4 60	BX 3	BT Bourdon Tube gauge	BT Bourdon Tube gauge	N14F 1/4" NPT female		
		PS HP int. gas purge LP Shut-off valve	C Check valve	FX 200 *	CX 6	I1 Inductive contact gauge I1	I2 Inductive 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 connections	possible connections
			U Check valve + safety valve		DX 14		I1 Inductive contact gauge I1		see technical drawing	see technical drawing
					EY 28					
					EX 50					
					F2 100					
					FX 200 *					

* Without relief valve for 200 bar | ** Only for outlet pressure 200 bar

Order code (as described above) without special characters or spaces! Complete Order Code **MPLH0MSP0CFXF2BTBTN14FN14FN14F**



Link to online product configurator