

MPLH0SDS | MPLHESDS – DRUVA®PUR MANIFOLD

MANIFOLD | PURE LINE (BRASS CHROME PLATED) | 20 m³ SERIES | HIGH PRESSURE RANGE

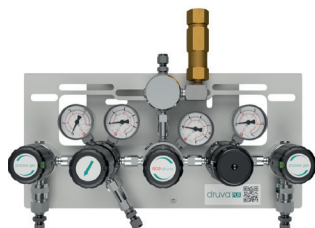
| SEMI-AUTOMATIC CHANGE OVER | DUAL STAGE | HIGH PRESSURE SHUT-OFF VALVE



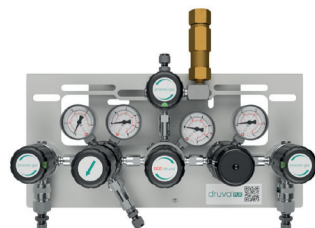
This manifold is used in gas supply systems for pure, inert, flammable, oxidising gases and gas mixtures.
It is not usable for corrosive and / or toxic gases and their mixtures.



Type MPLH0SDS00
S0 HP Shut-off Valve
0 Without Specials



Type MPLH0SDS0U
S0 HP Shut-off Valve
U Specials
Check Valve &
Safety Valve



Type MPLH0SDSSU
SS HP Shut-off Valve &
LP Shut-off Valve
U Specials
Check Valve &
Safety Valve

TECHNICAL SPECIFICATION

- > Switching between two sources by semi-automatic change over system
- > Regulator and Valves – Hastelloy/Elgiloy diaphragm tightening system to atmosphere
- > Compact design
- > Excellent pressure adjustment
- > 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

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 8,54 kg
Flow nominal:	20 m³/h (N₂) acc. to ISO 7291 at 20 bar outlet pressure and 41 bar inlet pressure
Pressure rates manifold:	

Max. inlet pressure: 300 bar

Delivery pressure: 2/ 3/ 6/ 10/ 14 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	
Cracking pressure relief valves:	21,6 (2 3 6 10) bar 43,1 (14) bar

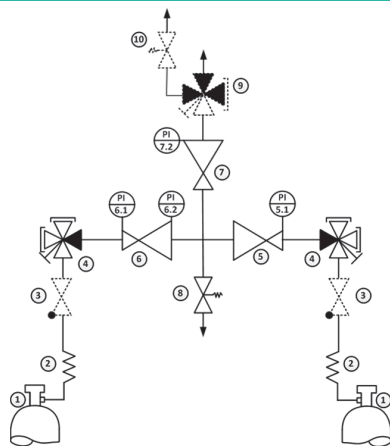
The relief valve on dual stage manifolds only secures the 1st pressure stage.

TECHNICAL DATA - SHUT-OFF VALVES	
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 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 400 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:	3/ 4,5/ 9/ 15/ 21/ 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

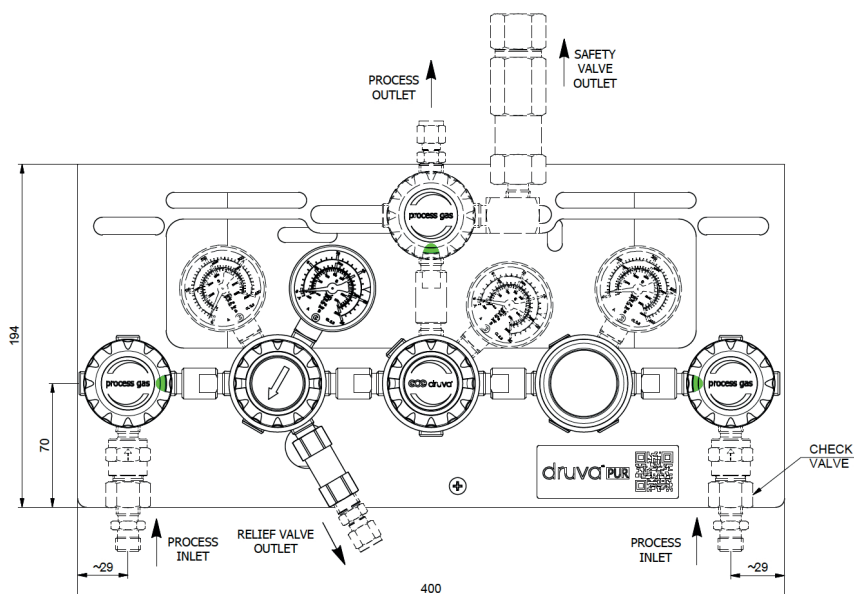
FLOW SCHEMATIC



- 1 – Gas Cylinder
- 2 – Coil / hose
- 3 – Check valve
- 4 – Shut-off Valve (3xin, 1xout)
- 5 – Fix Pressure Regulator 1st stage
- 6 – Set Pressure Regulator 1st stage
- 7 – Set Pressure Regulator 2nd stage
- 8 – Relief Valve
- 9 – Shut-off Valve (1xin, 3xout)
- 10 – 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 | Dual Stage | Semi-automatic Change Over | High Pressure Shut-off Valve

MPLH0S	D	SS	C	FX	CX	BT	BT	N14F	N14F (1/4" NPT female)	N14F (1/4" NPT female)
MPLHES	Stages	Options	Specials	Inlet pressure (bar)	Outlet pressure (bar)	Inlet pressure gauge	Outlet pressure gauge	Process inlet connection	Process outlet connection	Purge & relief connection
	D Dual stage	S0 HP * Shut-off valve	O without	F4 60	AX 2	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	BX 3	I1 Inductiv contact gauge I1	I2 Inductiv contact gauge I2	M14M Metric 14x1.5 male	possible connections	possible connections
			S Safety valve	GX 300	CX 6	R5 Reed contact gauge R5	R2 Reed contact gauge R2		see technical drawing	see technical drawing
			U Check valve + safety valve		D2 10		I1 Inductiv contact gauge I1			
					DX 14					

* HP = High pressure | ** LP = Low pressure

Order code (as described above) without special characters or spaces! Complete Order Code **MPLH0SDSSCFXCXBTBTN14FN14FN14F**



Link to online product configurator