MSLHOMDS | MSLHEMDS - DRUVA®PUR MANIFOLD

MANIFOLD | PURE LINE (STAINLESS STEEL) | 20 m3 SERIES HIGH PRESSURE RANGE | MANUAL CHANGE OVER | DUAL STAGE | HIGH PRESSURE SHUT-OFF VALVE



This manifold is used in gas supply systems for pure, inert, flammable, oxidising, corrosive and / or toxic gases and their mixtures.



Type MSLH0MD**S00** HP Shut-off Valve Without Specials

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
- > Regulator designed and approved regarding ISO 7291
- > 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
 - 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



Type MSLH0MD**S0U** HP Shut-off Valve **Specials** Check Valve & Safety Valve



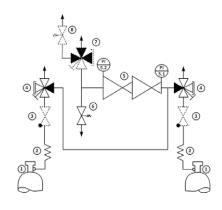


Type MSLH0MDSSU SS HP Shut-off Valve & LP Shut-off Valve **Specials** Check Valve &

Safety Valve

TECHNICAL DATA - MANIFOLD	
Working temperature:	-20 °C to +60 °C
Inlet/ outlet ports:	see technical drawing
Leakage rate seat:	<5x10 ⁻⁶ mbar I/s (Helium)
Leakage rate outside:	<1x10 ⁻⁹ mbar l/s (Helium)
Weight:	max 7,09 kg
Flow nominal:	$20m^3/h$ (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:	1/ 3/ 6/ 10/ 14 bar

1x for inlet 1x for each outlet				
Stainless Steel				
Hastelloy				
PCTFE (1st stage) PTFE (2nd stage)				
FKM				
EPDM				
Stainless Steel				
1,5 (1)/ 5 (3)/ 10 (6)/ 18 (10)/ 25 (14) bar				
act us				
1,5 (1)/ 4,6 (3)/ 9,2 (6)/ 15,4 (10)/ 21,6 (14) 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				

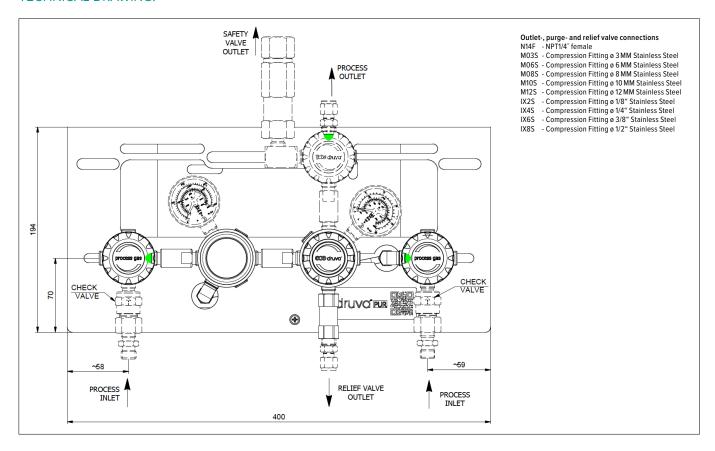


- 1 -Gas cylinder
- 2 -CoiL/hose
- 3 -Check valve
- 4 Shut-off valve (3xin, 1xout)
- 5 Pressure regulator
- 6 Relief valve
- 7 Shut-off valve (1xin, 3xout)
- 8 Safety valve

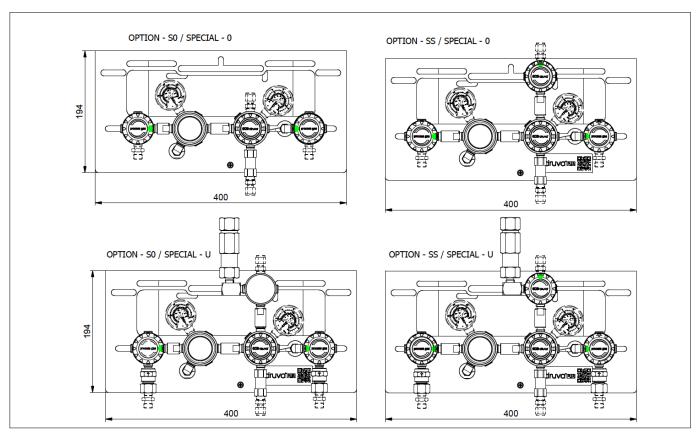
Options & specials are shown as dotted line

Type test in accordance with ISO 7291					
Additional life cycle test					
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					
300 bar					
0,25					
5 mm					
<5x10-6 mbar I/s (Helium)					
<1x10 ⁻⁹ mbar l/s (Helium)					
1x for each inlet 1x for each outlet					
Stainless Steel					
4-Port: 1x Hastelloy, 1x Elgiloy 2-Port: 2x Elgiloy					
PCTFE					
Stainless Steel					
Pressure test with Helium of each item					
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					
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					
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					
194 x 30 x 250 mm					
Stainless Steel (polished) Cut outs for replacement of gauges Free space for additional installer label (e.g. remark for next maintenance)					
194 x 30 x 400 mm					
Product range label QR-Code – link to online product configurator					
Spring loaded according P.E.D. 2014/68/EU and AD2000 (A2)					
1,5/ 4,5/ 9/ 15/ 21 bar					
$< 5 \times 10^{-6}$ mbar l/s (valve seat) at nominal pressure of receiver					
Housing and metal parts made of stainless steel, pressure spring made of stainless steel					
Stalliless steel					
FKM					

TECHNICAL DRAWING:

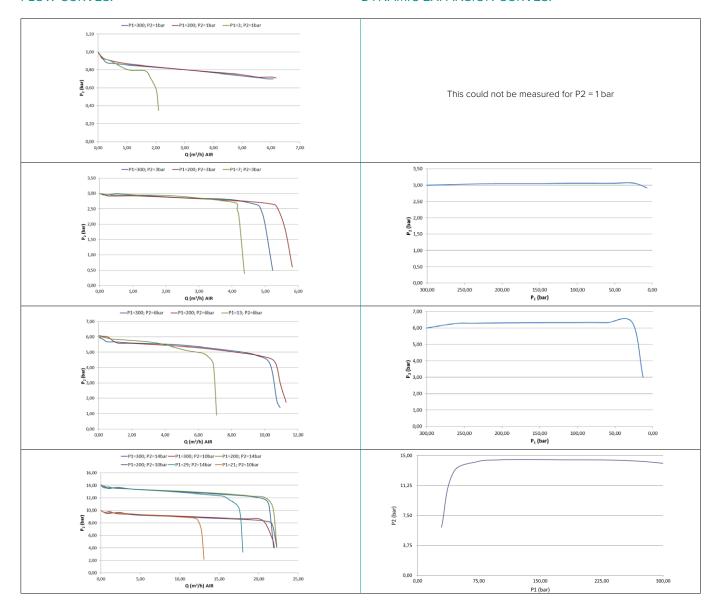


TECHNICAL DRAWING - VARIANTS:



FLOW CURVES:

DYNAMIC EXPANSION CURVES:



ORDER CODE:

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

MSLH0M MSLHEM	D	S0	С	FX	CX	ВТ	ВТ	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
	D Dual stage	SO HP shut-off valve	0 without	F4 60	AY 1	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	Inductiv contact gauge I2	M14M Metric 14x1.5 male	possible	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		Inductiv contact gauge			
					DX 14					

Order code (as described above) without special characters or spaces! Complete Order Code MSLH0MDSOCFXCXBTBTN14FN14FN14FN14F