MSLHOMSP | MSLHEMSP - DRUVA®PUR MANIFOLD

MANIFOLD | PURE LINE (STAINLESS STEEL) | 20 m³ 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, corrosive and / or toxic gases and their mixtures up to gas purity 6.0.



Type MSLH0MS**P00**P0 HP Purge Valve
0 Without Specials

TECHNICAL SPECIFICATION:

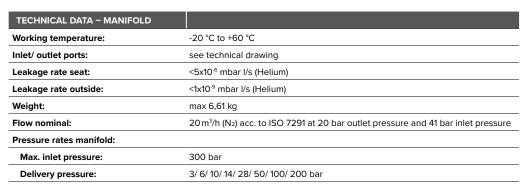
- > Switching between two sources by manual valve actuation
- > Regulator and Valves Hastelloy/Elgiloy diaphragm tighting system to atmosphere
- > Compact design
- > Excellent pressure adjustment
- > Valves designed and approved in accordance with relevant sections of ISO 10297:2015
- > Regulator designed and approved regarding ISO 7291
- > Relief valve in delivery pressure side
- > Manifold with purge valve for process gas purging
- > 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



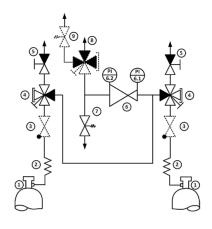
Type MSLHOMSPOU
P0 HP Purge Valve
U Specials
Check Valve &
Safety Valve





Type MSLHOMSPSU
PS HP Purge Valve &
LP Shut-off Valve
U Specials
Check Valve &
Safety Valve

TECHNICAL DATA - REGULATOR						
Filter:	1x for inlet 1x for each outlet					
Material gas wetted parts:						
Regulator body:	Stainless Steel					
Regulator diaphragm:	Hastelloy					
Regulator seat:	PCTFE					
Relief valve seat: MSLHOMSP Version MSLHEMSP Version	FKM EPDM					
Regulator poppet:	Stainless Steel					
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 cor	ntact 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					
Took in mundication.	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 -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

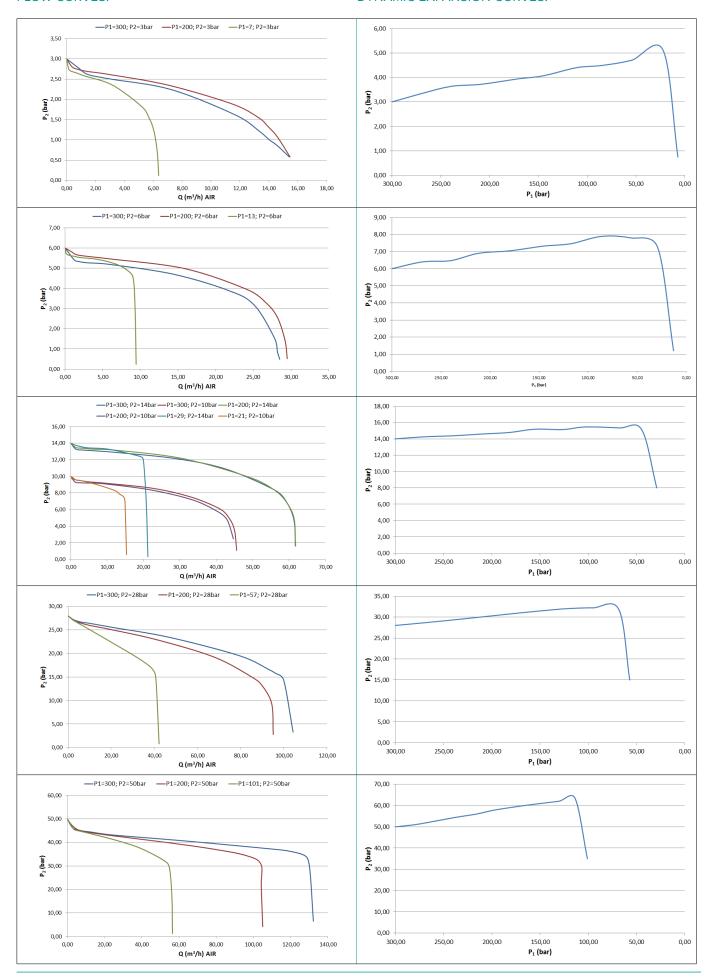
Outlet connection:

	Type 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:	ix for each outlet					
Valve body:	Stainless Steel					
Valve diaphragm:	4-Port: 1x Hastelloy, 1x Elgiloy 2-Port: 2x Elgiloy					
Valve seat:	PCTFE					
Valve poppet:	Stainless Steel					
	Pressure test with Helium of each item					
	Seat leakage test with Helium of each item					
Test in production:	Helium leak test of each valve against atmosphere					
	Test of functionality of each item					
Approvals during development:	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,					
TECHNICAL DATA DI ATEC	IIB, IIC					
TECHNICAL DATA - PLATES	Stainless Steel (polished)					
Ground plate:	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:	< 5 x 10 ⁻⁶ mbar l/s (valve seat) at nominal pressure of receiver					
Material:	Housing and metal parts made of Stainless Steel, pressure spring made of stainless steel					
Seat and seal:	FKM					
0.414	NIDT 1/ " face als					

NPT 1/2" female

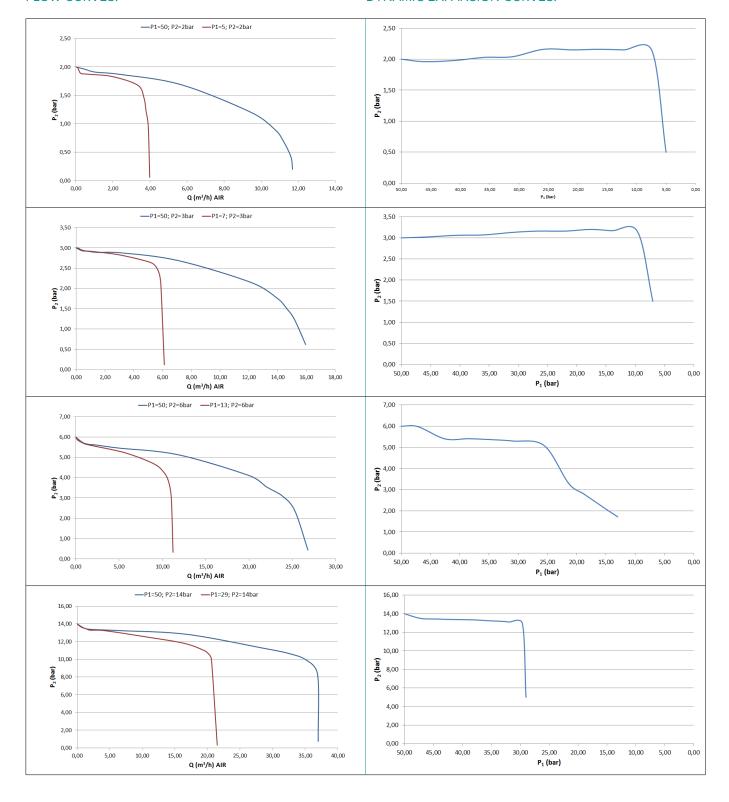
FLOW CURVES:

DYNAMIC EXPANSION CURVES:

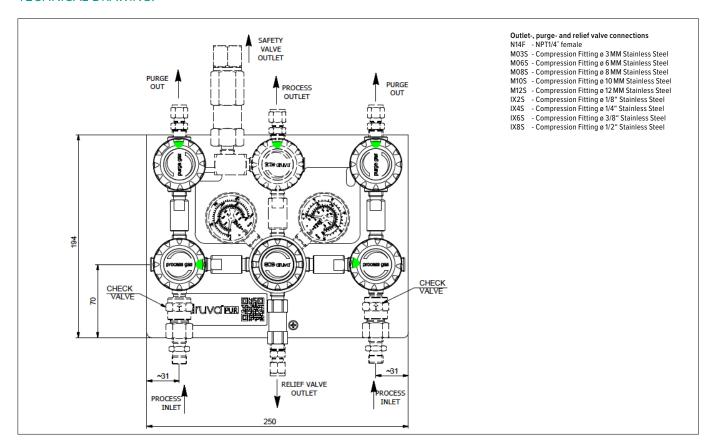


FLOW CURVES:

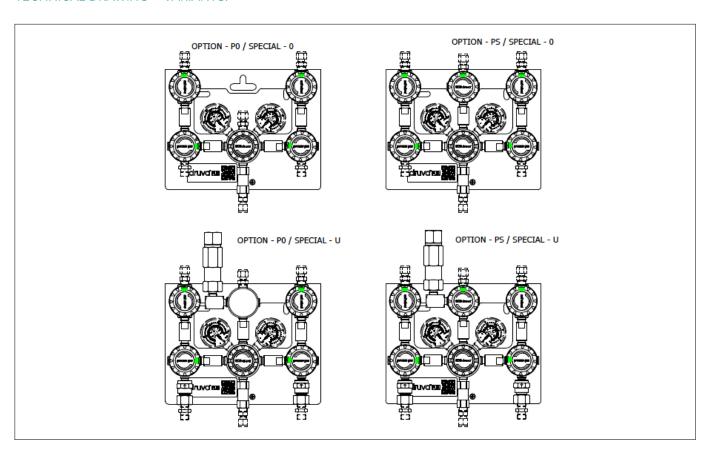
DYNAMIC EXPANSION CURVES:



TECHNICAL DRAWING:



TECHNICAL DRAWING - VARIANTS:



ORDER CODE:

Example Manifold | PUR Linie | Stainless Steel | Low Flow | Manual Change Over | Single Stage | Process Gas Purging

MSLHOM MSLHEM	S	PO	С	FX	F2	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
	S Single stage	PO 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 Inductiv contact gauge I1	l2 Inductiv contact gauge l2 **	M14M Metric 14x1.5 male		
			S Safety valve GX 300 D2 10 R5 Reed contact gauge R2 Reed contact gauge R5 R5 Reed contact gauge R2 **		possible	possible				
			U Check valve + safety valve		DX 14		Inductiv contact gauge		see technical drawing	connections see technical drawing
					EY 28					
			EX 50							
					F2 100					
					FX 200*					

^{*} Without relief valve for 200 bar

^{**} Only for oulet pressure 200 bar