MSLH0XD0 | MSLHEXD0 - DRUVA®PUR MANIFOLD

MANIFOLD | PURE LINE (STAINLESS STEEL) | 20 m2 SERIES | HIGH PRESSURE RANGE | DUAL STAGE



Manifold used in gas supply systems for pure, inert, flammable, oxidizing gases and gas mixtures. This stainless steel version of manifold is also usable for corrosive and/ or toxic gases and gas mixtures. Maximum gas purity is 6.0.



Type MSLH0XD**000**00 Without HP Valve
& LP Valve
0 Without Specials

TECHNICAL SPECIFICATION:

- > Manifold for one gas cylinder or bundle
- > 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
- > 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 MSLH0XD**00U**00 Without HP Valve
& LP Valve
U **Specials**Check Valve &
Safety Valve

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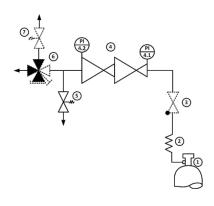
Type MSLHOXD**0SU**OS LP Shut-off Valve

U **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 l/s (Helium)
Leakage rate outside:	<1x10 ⁻⁹ mbar I/s (Helium)
Weight:	max 5,59 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:	2/ 3/ 6/ 10/ 14 bar

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 (1st stage) PTFE (2nd stage)			
Relief valve seat:				
MSLH0XD0 Version	FKM			
MSLHEXD0 Version	EPDM			
Regulator poppet:	Stainless Steel			
Pressure gauges rates (pressure rates):	1,5 (1)/ 5 (3)/ 10 (6)/ 18 (10) / 25 (14) bar			
Contact gauges available – please co	ntact us			
Cracking pressure relief valves:	1,5 (1)/ 4,6 (3)/ 9,2 (6)/ 15,4 (10)/ 21,6 (14) bar			
Test in production:	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			

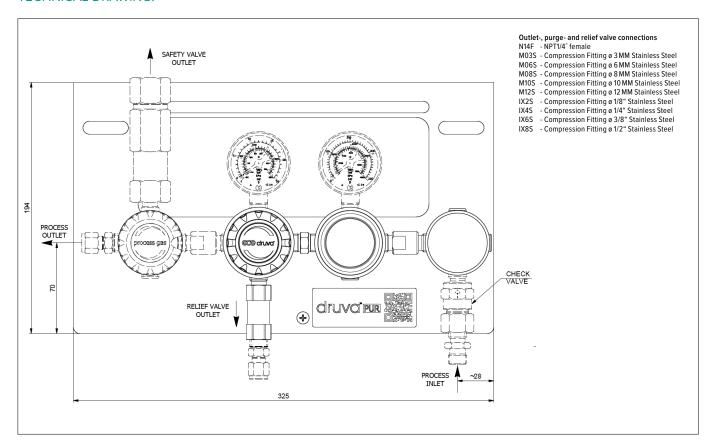


- 1 –Gas cylinder
- 2 -CoiL/hose
- 3 -Check valve
- 4 Pressure regulator
- 5 –Relief valve
- 6 Shut-off valve (1xin, 3xout)
- 7 –Safety valve

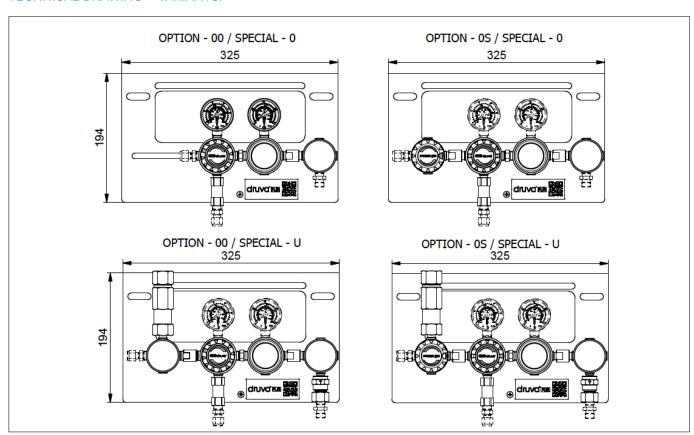
Options & specials are shown as dotted line

	Type test in accordance with ISO 7291				
Approvals during development:	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				
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:					
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				
Test in production:	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				
	Type test in accordance with relevant sections of ISO 10297:2015				
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					
	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				
Ground plate:	Option to secure arrestor cable of hoses with hook on ground plate. Grounding bolt				
Dimensions ground plate: (Height x Width x Length)	Option to secure arrestor cable of hoses with hook on ground plate. Grounding bolt				
Dimensions 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)	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 easy replacement of gauges				
Dimensions ground plate: (Height x Width x Length) Front plate: Dimensions front plate:	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 easy replacement of gauges Free space for additional installer label (e.g. remark for next maintenance)				
Dimensions ground plate: (Height x Width x Length) Front plate: Dimensions front plate: (Height x Width x Length)	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 easy replacement of gauges Free space for additional installer label (e.g. remark for next maintenance) 194 x 30 x 325 mm Product range label				
Dimensions ground plate: (Height x Width x Length) Front plate: Dimensions front plate: (Height x Width x Length) Marking on panel: TECHNICAL DATA —	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 easy replacement of gauges Free space for additional installer label (e.g. remark for next maintenance) 194 x 30 x 325 mm Product range label				
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Dimensions ground plate: (Height x Width x Length) Front plate: Dimensions front plate: (Height x Width x Length) Marking on panel: TECHNICAL DATA — SAFETY VALVES (S)	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 easy replacement of gauges Free space for additional installer label (e.g. remark for next maintenance) 194 x 30 x 325 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 x 10-6 mbar I/s (valve seat) at nominal pressure of receiver				
Dimensions ground plate: (Height x Width x Length) Front plate: Dimensions front plate: (Height x Width x Length) Marking on panel: TECHNICAL DATA - SAFETY VALVES (S) Opening pressure: Leakage rate: Material:	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 easy replacement of gauges Free space for additional installer label (e.g. remark for next maintenance) 194 x 30 x 325 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 x 10 ⁻⁶ mbar I/s (valve seat) at nominal pressure of receiver Housing and metal parts made of Stainless Steel, pressure spring made of stainless steel				
Dimensions ground plate: (Height x Width x Length) Front plate: Dimensions front plate: (Height x Width x Length) Marking on panel: TECHNICAL DATA - SAFETY VALVES (S) Opening pressure: Leakage rate:	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 easy replacement of gauges Free space for additional installer label (e.g. remark for next maintenance) 194 x 30 x 325 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 x 10 ⁻⁶ mbar l/s (valve seat) at nominal pressure of receiver Housing and metal parts made of Stainless Steel, pressure spring made of				

TECHNICAL DRAWING:

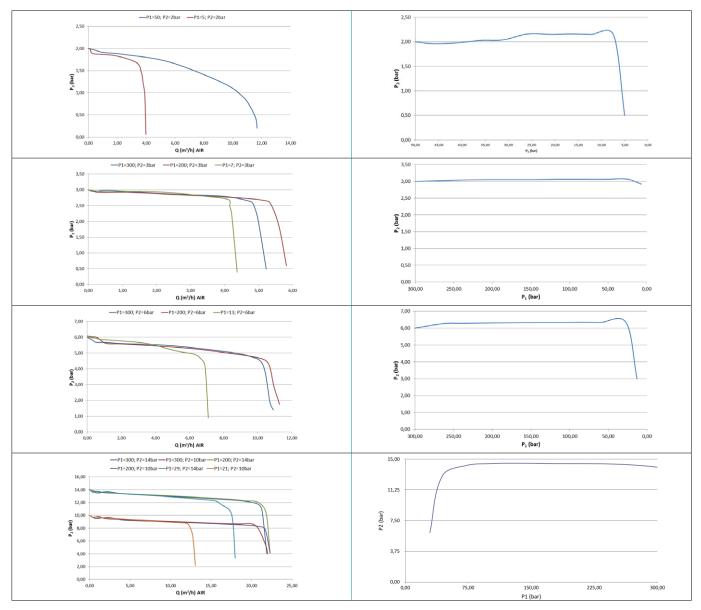


TECHNICAL DRAWING - VARIANTS:



FLOW CURVES:

DYNAMIC EXPANSION CURVES:



ORDER CODE:

Example Manifold | PUR Linie | Stainless Steel | Low Flow | High Pressure Range | Dual Stage

MPLHOX MPLHEX	D	00	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	00 without any options	0 without	F4 60	AX 2	BT Bourdon Tube gauge	BT Bourdon Tube gauge	N14F 1/4" NPT female		possible connections
		OS LP Shut-off valve	C Check valve	FX 200	BX 3	Inductiv contact gauge	l2 Inductiv contact gauge l2	M14M Metric 14x1.5 male	possible connections	
			S Safety valve	GX 300	CX 6	R5 Reed contact gauge R5	R2 Reed contact gauge R2			
		U Check valve + safety valve		D2 10		Inductiv contact gauge		drawing	drawing	
					DX 14					