MSLHOXDS MSLHEXDS – DRUVA® PUR MANIFOLD MANIFOLD | PURE LINE (STAINLESS STEEL) | 20 m³ SERIES | HIGH PRESSURE RANGE 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 MSLH0XD**S00** S0 HP Shut-off 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 DIN 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 DIN 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

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 I/s (Helium)					
Weight:	max 5,79 kg					
Flow nominal:	$20m^3/h$ (N_2) acc. to ISO 7291 at 20 bar outlet pressure and 41 bar inlet pressur					
Pressure rates manifold:						
Max. inlet pressure:	300 bar					
Delivery pressure:	1/ 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 (1 st stage) PTFE (2 nd stage)					
Relief valve seat: MSLH0DS Version MSLHEDS Version	FKM 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					
	Pressure test with Helium of each item					
Test in an destination.	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					



Type MSLH0XD**S0U**

S0 HP Shut-off Valve

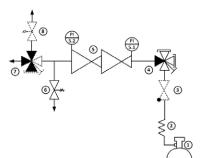
U Specials Check Valve &

Safety Valve



Type MSLH0XD**SSU** SS HP Shut-off Valve

- & LP Shut-off Valve U Specials
- Check Valve & Safety Valve

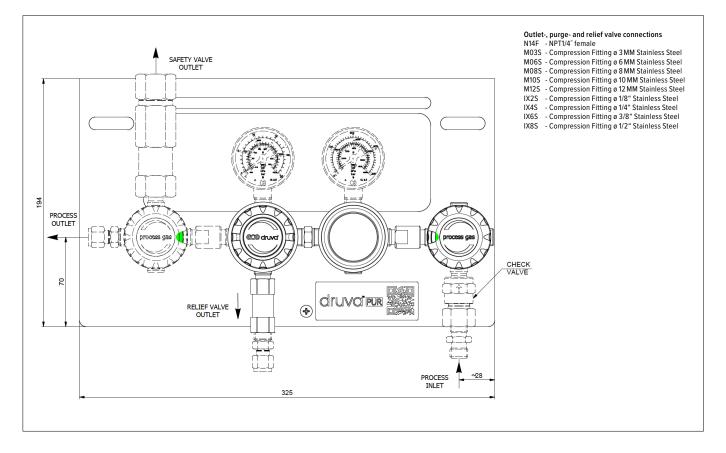


- 1 –Gas cylinder
- 2 CoiL/Hose
- 3 Check valve
- 4 Shut-off valve (3xin, 1xout)
- 5 Pressure regulator
- 6 Relief valve
- 7 Shut-off valve (1xin, 3xout)
- 8 Safety valve

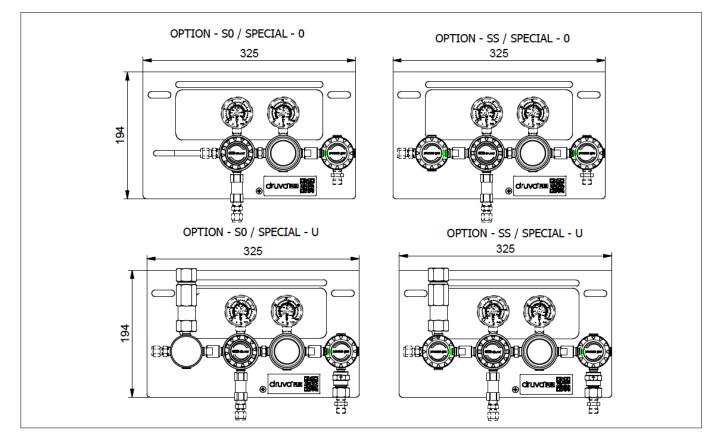
Options & specials are shown as dotted line

	Type test in accordance with DIN 7291					
	Additional life cycle test					
Approvals during development:	 Electrostatic chargeability test Fulfill requirements according DIN 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	200 h					
Max. working pressure:	300 bar					
Kv-value:	0,25					
Seat diameter:	5 mm					
Leakage rate seat:	<5x10 ⁻⁶ mbar l/s (Helium)					
Leakage rate outside:	<1x10 ⁻⁹ mbar I/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 is seeduction.	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 DIN 10297:2015					
Approvals during development:	 Electrostatic chargeability test Fulfill requirements according DIN 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						
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:	194 x 30 x 250 mm					
(Height x Width x Length)	Stainless Steel (polished)					
Front plate:	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 325 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:	1,5/ 4,5/ 9/ 15/ 21 bar					
Leakage rate:	$< 5 \times 10^{-6}$ 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					
Outlet connection:	NPT 1/2" female					

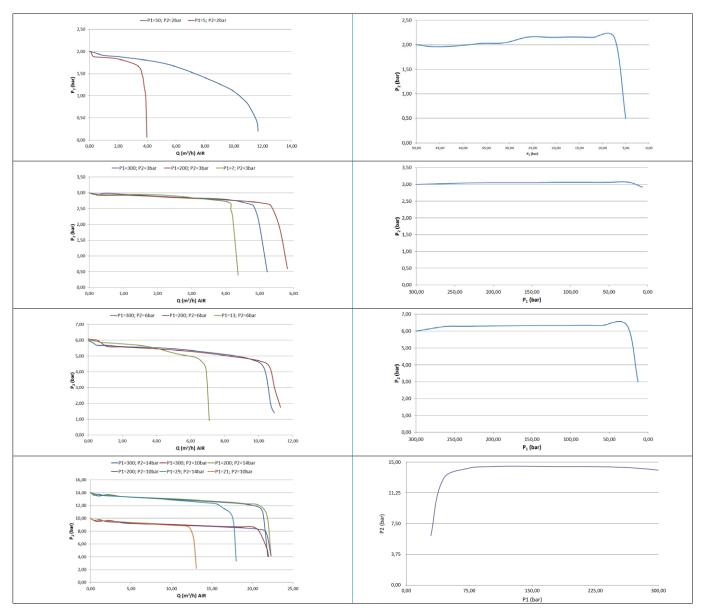
TECHNICAL DRAWING:



TECHNICAL DRAWING - VARIANTS:



FLOW CURVES:



ORDER CODE:

Example Manifold | PUR Linie | Stainless Steel | Low Flow | High Pressure Range | Dual Stage | High Pressure Shut-off Valve

MSLHOX MSLHEX	D	SS	С	FX	СХ	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
	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	possible	
		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
			S Safety valve GX 300 CX 6 R5 Reed contact R5	contact gauge	R2 Reed contact gauge R2			see technical		
		U Check valve + safety valve		D2 10		I1 Inductiv contact gauge I1		drawing	drawing	
					DX 14					

