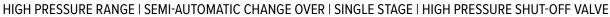
MSLHOSSS | MSLHESSS- DRUVA®PUR MANIFOLD

MANIFOLD | PURE LINE (STAINLESS STEEL) | 20 m³ SERIES





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



Type MSLH0SS**S00**S0 HP Shut-off 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 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 MSLHOSS**SOU**SO HP Shut-off Valve
U **Specials**Check Valve &
Safety Valve

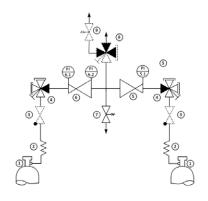
TECHNICAL DATA - MANIFOLD	
Working temperature:	-20 °C to +60 °C
Inlet/ outlet ports:	see technical drawing
Leakage rate seat:	<5x10-6 mbar I/s (Helium)
Leakage rate outside:	<1x10 ⁻⁹ mbar I/s (Helium)
Weight:	max 7,7 kg
Flow nominal:	20 m³/h (N₂) acc. to ISO 7291 at 20 bar outlet pressure and 41 bar inlet pressure
Pressure rates manifold:	
Max. inlet pressure:	300 bar
Delivery pressure:	10/ 14/ 28/ 50 bar



Туре	MSLH0SS SSU
SS	HP Shut-off 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:					
MSLH0SS Version	FKM				
MSLHESS Version	EPDM				
Regulator poppet:	Stainless Steel				
Pressure gauges rates (pressure rates):	18 (10)/ 25 (14)/ 40 (28)/ 80 (50) bar				
Contact gauges available – please co	ntact us				
Cracking pressure relief valves:	15,4 (10)/ 21,6 (14)/ 43,1 (28)/ 65 (50) bar				
	Pressure test with Helium of each item				
To at the considerations	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 FIX PRESSURE REGULATOR
- 6 SET PRESSURE REGULATOR
- 7 RELIEF VALVE
- 8 -SHUT-OFF VALVE (1XIN, 3XOUT)
- 9 -SAFETY VALVE

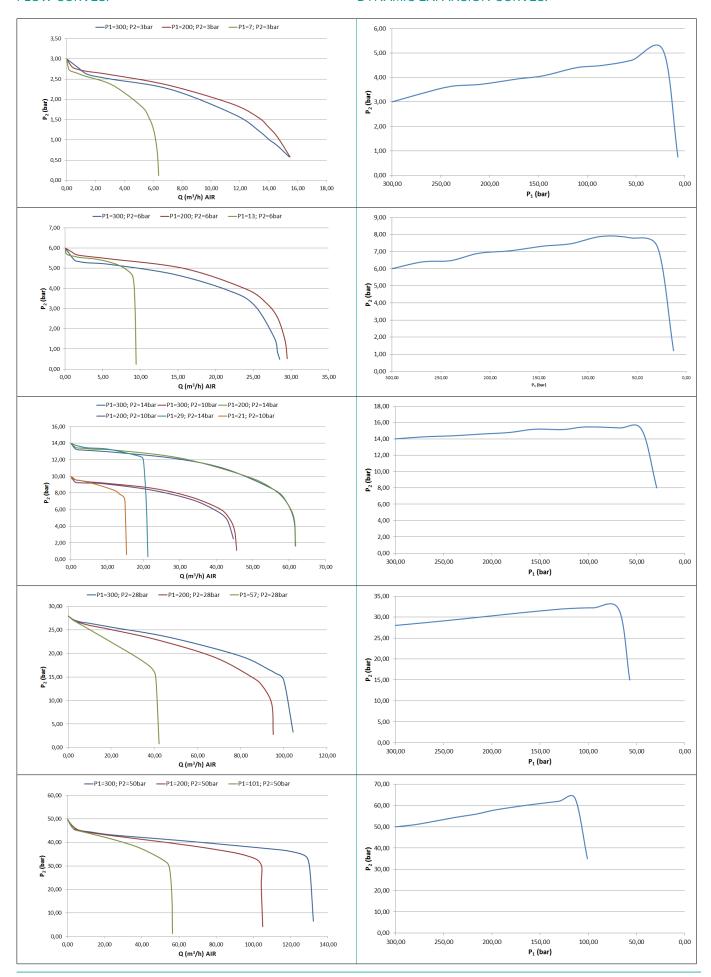
Options & specials are shown as dotted line

	Type lest in accordance with 130 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 l/s (Helium)						
Leakage rate outside:	<1x10 ⁻⁹ mbar l/s (Helium)						
Filter:	1x for each inlet						
Material gas wetted parts:	1x for each outlet						
Valve body:	Stainless Steel						
· · · · · · · · · · · · · · · · · · ·	4-Port: 1x Hastelloy, 1x Elgiloy						
Valve diaphragm:	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						
•	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)						
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 replacement of gauges						
Front plate.	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:	15/ 21/ 42 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						

Type test in accordance with ISO 7291

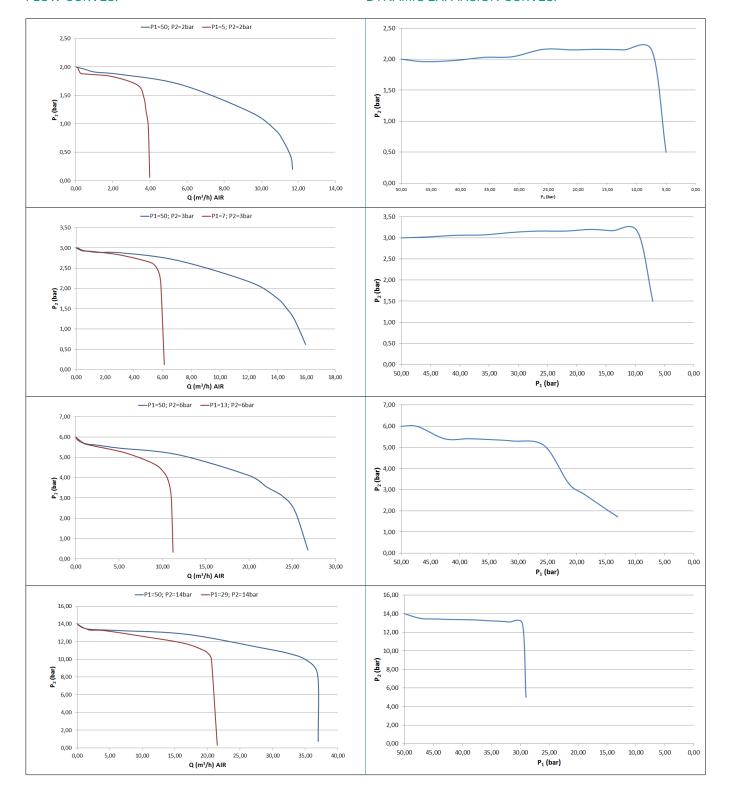
FLOW CURVES:

DYNAMIC EXPANSION CURVES:

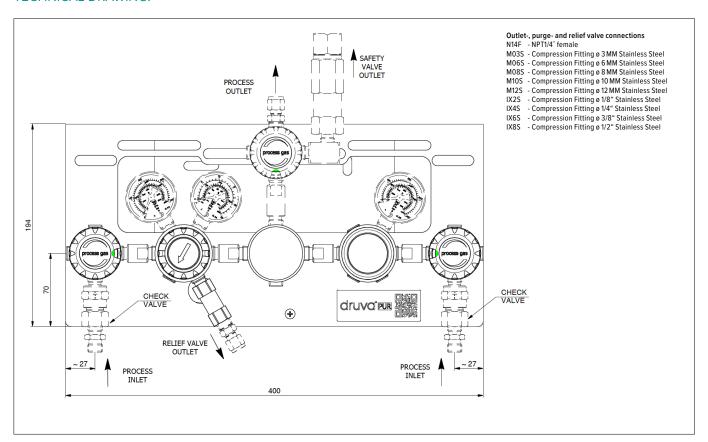


FLOW CURVES:

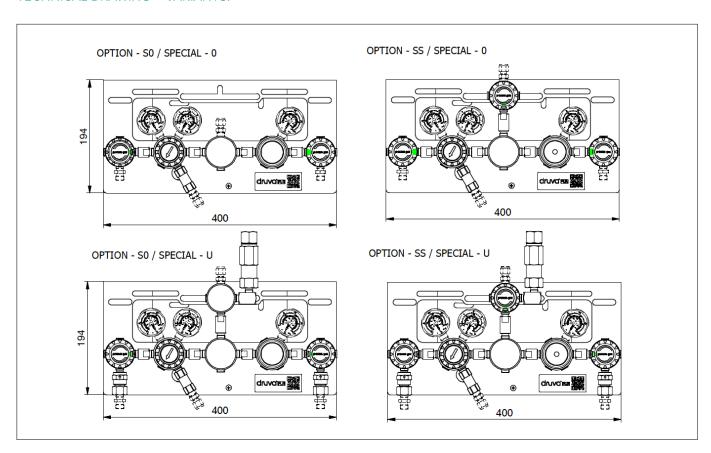
DYNAMIC EXPANSION CURVES:



TECHNICAL DRAWING:



TECHNICAL DRAWING - VARIANTS:



ORDER CODE:

Example Manifold | PUR Linie | Stainless Stell | Low Flow | Semiautomatic Change Over | Single Stage | High Pressure Shut-off Valve

MSLHOS MSLHES	S	SS	U	FX	DX	ВТ	R2	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	S0 HP * Shut-off valve	0 without	F4 60	D2 10	BT Bourdon Tube	BT Bourdon Tube	N14F 1/4" NPT female		
		SS HP*Shut-off valve LP**Shut-off valve	C Check valve	FX 200	DX 14	I1 Inductiv contact gauge I1	l2 Inductiv contact gauge l2	M14M Metric 14x1.5 male	possible connections	possible connections
			S Safety valve	GX 300	EY 28	R5 Reed contact gauge R5	R2 Reed contact gauge R2		see technical drawing	see technical drawing
			U Check valve + safety valve		EX 50		Inductiv contact gauge			

^{*} HP = High pressure

**LP = Low pressure
Order code (as described above) without special characters or spaces! Complete Order Code MSLHOSSSSUFXDXBTR2N14FN14FN14