



THE NEW GENERATION

Modular | Compatible | Fast availability



DRUVA TEC
MIDDLE FLOW RANGE MANIFOLDS
FOR INDUSTRIAL GAS SUPPLY SYSTEMS

Nominal flow up to 100 m³/h

GCE druva®

METAL DIAPHRAGM SHUT OFF VALVE

Shut off valve used in supply systems for industrial, inert, flammable, oxidizing gases and gas mixtures. Not usable for corrosive or toxic gases and gas mixtures.

SPECIAL FEATURES:

- > Designed and approved in accordance with relevant sections of **EN ISO 10297:2015**
- > **O₂- ignition** test regarding EN ISO 10297 for main shut of valve
- > **Electrostatic chargeability test**
 - fulfill requirements according DIN EN ISO 80070-36; 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

VTMF - 4-port metal diaphragm shut off valve



VTMI - 4-port metal diaphragm shut off valve



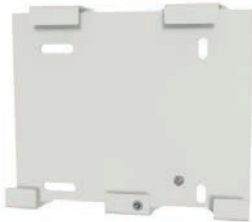
VTLA - 2-port metal diaphragm shut off valve



PANELS

- > Consists of two parts (plates)
- > Easy installation of ground plate (without weight of manifold)
- > Attach front plate and fix by one screw only
- > Front plate with mounting hole for replacement of gauges

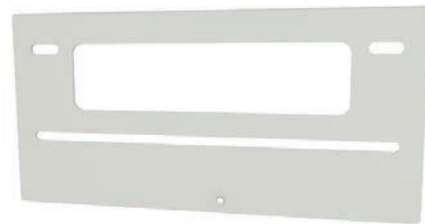
GROUND PLATE



FRONT PLATE - Short version



FRONT PLATE - Long version



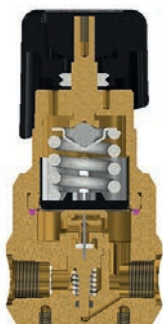
SPARE PARTS

SINGLE STAGE PRESSURE LINE REGULATOR

Single stage pressure line regulator used in supply system for industrial, inert, flammable, oxidizing and gas mixtures. Not usable for corrosive, toxic gases and gas mixtures.

SPECIAL FEATURES

- > Designed and approved regarding ISO7291 (including O₂- ignition test)
- > Metal diaphragm regulator
- > Encapsulated valve design
- > Single stage version
- > Excellent pressure adjustment
- > 4- port and 6- port configuration available
- > Relief valve in delivery pressure side available



*LTMJ - 6- port single stage pressure line regulator
3 x inlet; 3 x outlet*



*LTMM - 4- port single stage pressure line regulator
2 x inlet; 2 x outlet*



*LTMF - 4- port single stage pressure line regulator
1 x inlet; 3 x outlet*



DRUVA TEC MIDDLE FLOW RANGE - MANIFOLDS

MANIFOLDS

Manifold used in supply systems for industrial, inert, flammable, oxidizing gases and gas mixtures.
Not usable for corrosive or toxic gases and gas mixtures.

SPECIAL FEATURES:

- > Metal diaphragm for valves and regulators
- > Compact design
- > Electrostatic chargeability test
 - fulfill requirements according DIN EN ISO 80070-36; 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

*MTMM manifold for two sources
with manual change over system*



MTMX manifold for one source



*MTMS manifold for two sources
with semiautomatically change over system*



*MTMT manifold for three sources
with manual change over system*



PRODUCT CONFIGURATOR

For more information you can use our WEBSITES



TECHNICAL DATA - REGULATOR		
Working temperatures:	-20°C to + 60 °C	
Inlet/outlet ports:	NPT ¼" female	
Leakage rate seat:	less than 50 cm³/h (23°C; 1,013 bar absolut)	Compressed Air
Leakage rate outside:	less than 10 cm³/h (23°C; 1,013 bar absolut)	Compressed Air
Mounting holes:	2×M6	
Materials gas wetted parts		
Regulator body:	BRASS (2.0401.26)	
Regulator diaphragm:	Hastelloy (2.4819)	
Regulator seat:	ZYTEL	
Regulator popet:	BRASS (2.0380)	
Contact gauges available- please contact factory		
Max. inlet pressure:	300 bar	50 bar
Delivery pressures:	10 bar, 20 bar, 40 bar, 100 bar	2,5 bar; 5 bar; 10 bar; 16 bar; 40 bar
Pressure gauge rates (pressure rates):	5 bar (2,5 bar); 10 bar (5 bar); 18 bar (10 bar); 25 bar (16 bar); 65 bar (40 bar); 160 bar (100 bar); 200 (315 bar); 400 bar (300 bar);	
Cracking pressure relief valves:	15,4 bar (10 bar); 30,8 bar (20 bar); 61,6 bar (40 bar); 154 bar (100 bar)	
Tests in production:	Pressure test with dry air (ISO 8573 [1:2:2]) of each item regarding ISO 7291 5.2.7.2	
	Seat leakage test with dry air (ISO 8573 [1:2:2]) of each item regarding ISO 7291 5.2.7.3	
	Test of functionality of each item	
Approvals during development:	Type test regarding ISO 7291	
	O2 ignition test regarding ISO 7291	
	Approval for all none metallic O2 - wetted parts which were not part of O2 ignition test	
	Electrostatic chargeability test	

TECHNICAL DATA - VALVES		
Working temperature:	-20°C to + 60°C	
Inlet/Outlet ports:	NPT 1/4" female; NPT 3/8" female	
Max. working pressure:	300 bar; 40 bar	
Kv-value:	0,25; 0,35	
Seat diameter:	5 mm; 7 mm	
Leakage rate seat:	less than 6 cm³/h (20°C; 1,013 bar absolut)	Compressed Air
Leakage rate outside:	less than 6 cm³/h (20°C; 1,013 bar absolut)	Compressed Air
Filter inlet:	100 µm mesh	
Filter outlet ports:	100 µm mesh	
Mounting holes:	M6	
Weight:	0,30 kg; 0,62 kg	
Valve body:	BRASS (2.0401.26)	
Valve diaphragm:	2 x Elgiloy (2.4711); 1 x Hestiloy (2.4819) + Elgiloy (2.4711)	
Valve seat:	PCTFE	
Valve popet:	BRASS (2.0401.26)	
Tests in production:	Pressure test with dry air (ISO 8573 [1:2:2]) of each item	
	Seat leakage test with dry air (ISO 8573 [1:2:2]) of each item	
	Test of functionality of each item	
Approvals during development:	Type test accordance with relevant sections of EN ISO 10297:2015	
	O2 ignition test regarding EN ISO 10297 for main shut off valve	
	Electrostatic chargeability test	
	- fulfill requirements according DIN EN ISO 80070-36; 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:	Material 1.4301 (polished)
	Option for attaching safety wire of hoses with special trap against loosening
	Grounding bolt
	Openings on top and in bottom of ground plate allows installations "behind" manifold
Front plate:	Material 1.4301 (polished)
	Mounting hole for possible replacement of gauges
	Free space for additional installer label (for instance remark for next maintenance)
Marking on panel:	Sign of our range (druvaTEC)
	QR - code Label with link to our home page to find IFU, data sheet and other technical documents