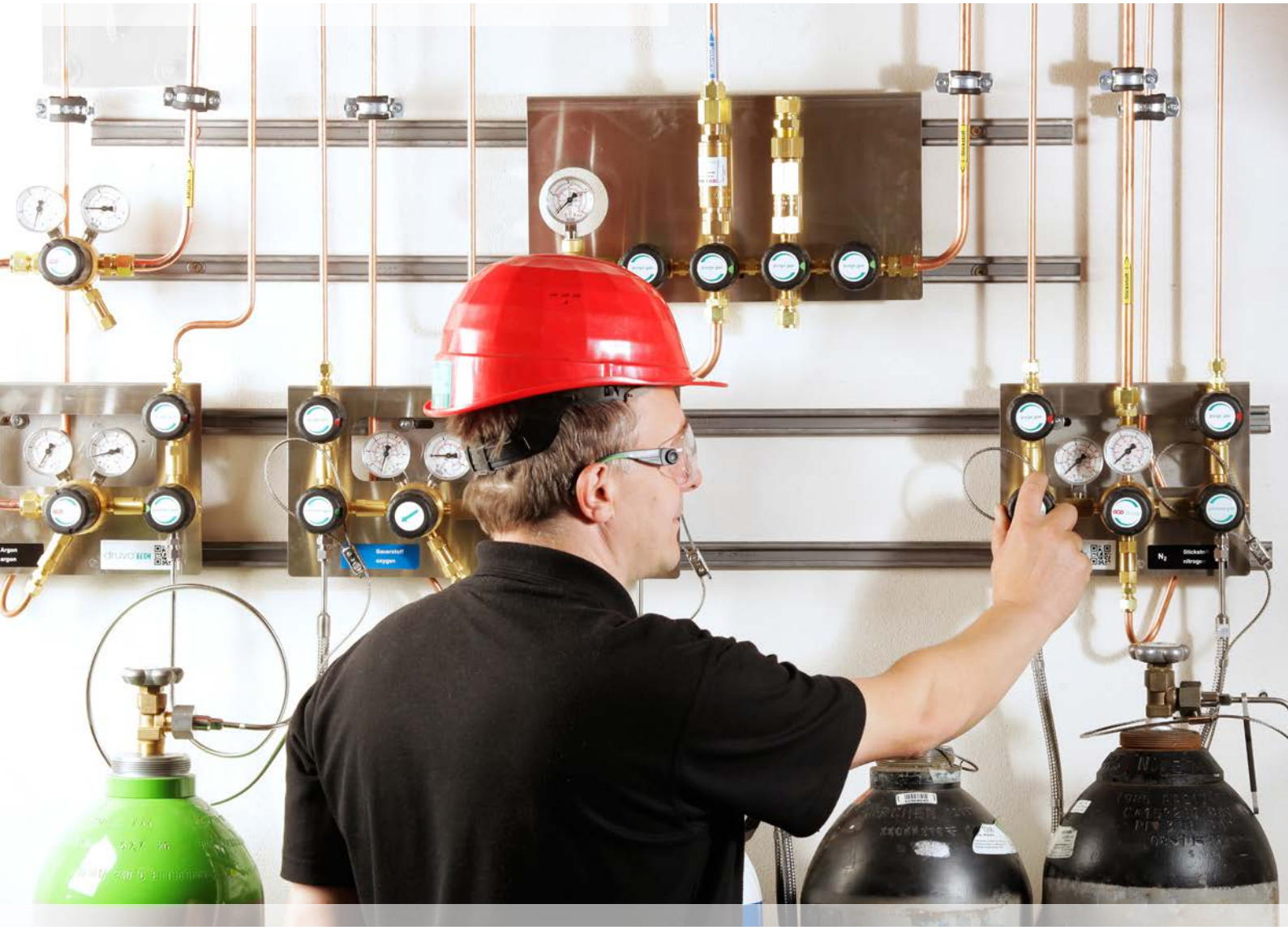
THE NEW GENERATION

Modular | Compatible | Fast availability



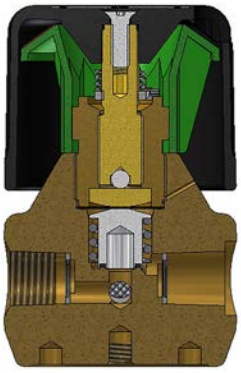
DRUVA TEC
LOW FLOW RANGE
FOR INDUSTRIAL GAS SUPPLY SYSTEMS

Nominal flow up to 20 m^3/h

gce druva®

METAL DIAPHRAGM SHUTT 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- ignitation** test regading EN ISO 10297 for main shutt of valve
> **Electrostatic chargeability test**
- fulfill requirements according DIN EN 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

VTLF
4-port metal diaphragm
shut off valve

VTLI
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
Including grounding bolt

FRONT PLATE
Short version

FRONT PLATE
Long version

DRUVA TEC LOW 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 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

MTLM - manifold for two sources with manual change over system

MTLX - manifold for one source

MTLS - manifold for two sources with semiautomatically change over system

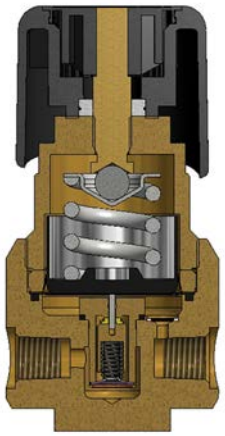
MTLT - manifold for three sources with manual change over system

PRODUCT CONFIGURATOR

For more information you can use our WEBSITES

SINGLE STAGE PRESSURE LINE REGULATOR

Single stage pressure line regulator used in supplier 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
> Enacupsulated valve design
> Single stage version
> Excellent pressure adjustment
> 4- port and 6- port configuration available
> Relief valve in delivery pressure side available

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

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

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

TECHNICAL DATA - REGULATOR		
Working temperatures:	-20°C to + 60 °C	
Inlet/outlet ports:	NPT ¼" female	
Leakage rate seat:	less than 50 cm^3/h (23°C; 1,013 bar absolut)	Compressed Air
Leakage rate outside:	less than 10 cm^3/h (23°C; 1,013 bar absolut)	Compressed Air
Filter:	1x for inlet, 1x for each outlet	
Mounting holes:	2×M6	
Materials gas wetted parts		
Regulator body:	BRASS (2.0401.26)	
Regulator diaphragm:	Hastelloy (2.4819)	
Regulator seat:	PCTFE	
Regulator popet:	BRASS (2.0371)	
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	
Max. working pressure:	300 bar	
Kv-value:	0,25	
Seat diameter:	5 mm	
Leakage rate seat:	less than 6 cm^3/h (20°C; 1,013 bar absolut)	Compressed Air
Leakage rate outside:	less than 6 cm^3/h (20°C; 1,013 bar absolut)	Compressed Air
Filter:	1x for inlet, 1x for each outlet	
Mounting holes:	M6	
Material gas wetted parts		
Valve body:	BRASS (2.0401.26)	
Valve diaphragm:	VTLI, VTLF: 4- port version: 1 x Hastelloy (2.4819), 1 x Elgiloy (2.4711)	
	VLTA: 2- port version: 2×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])	
	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	
	(including O2 ignition test for main shut off valve)	
	Electrostatic chargeability test	

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:	Label of our range (druvaTEC)
	QR - code Label with link to our home page to find IFU, data sheet and other technical documents

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Art. Nr. 735100001234. Edition 1/2018. Alterations are subject to change without notice. 09052018kk