

## VPLDSMFR – DRUVA® PUR SHUT-OFF VALVE

VALVE | PURE LINE (BRASS CHROME PLATED) | 20 m² SERIES | DIAPHRAGM SHUT-OFF VALVE  
| MANUAL ACTUATION | 4-PORT VERSION – 1XIN | 3XOUT



4-port metal diaphragm shut-off valve is used in supply systems for pure, inert, flammable, oxidizing gases and gas mixtures. Not usable for corrosive and toxic gases and gas mixtures. Maximum gas purity is 6.0.

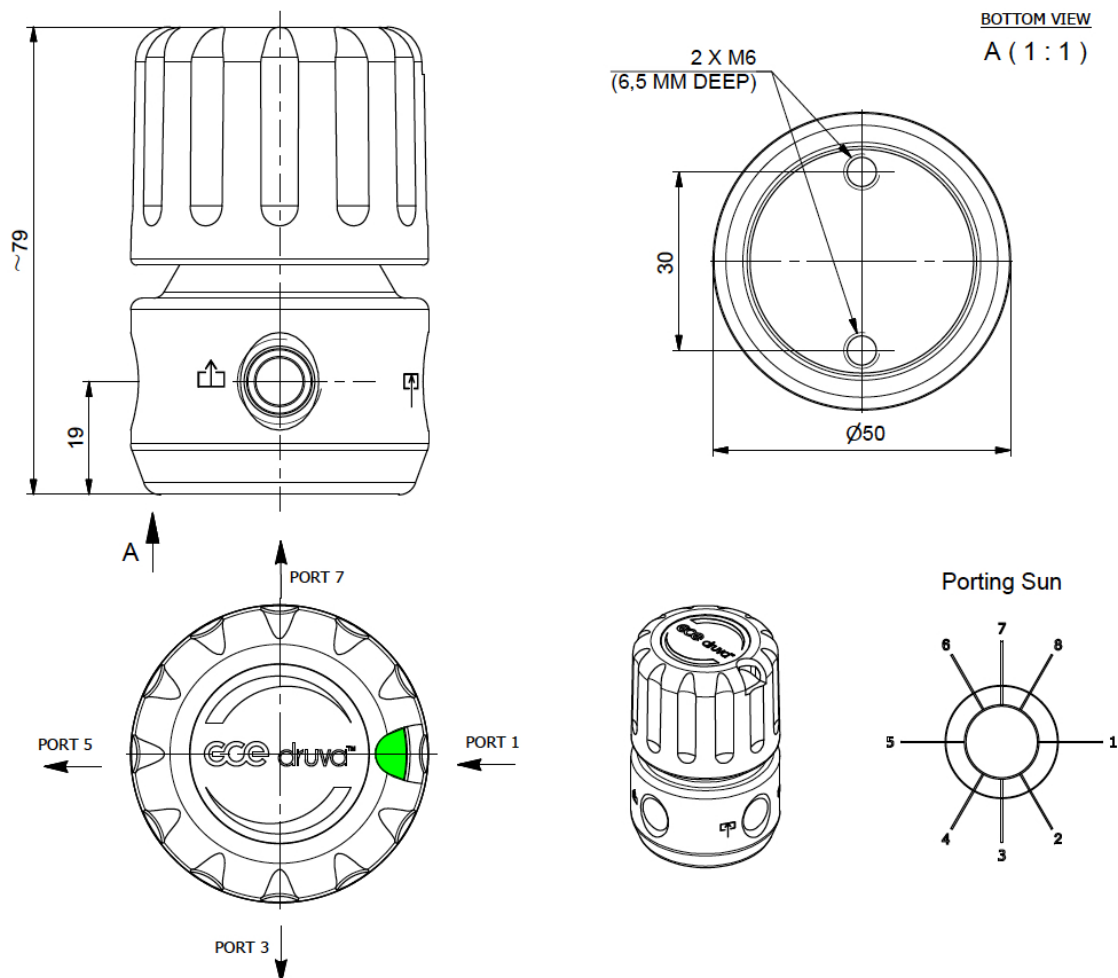


### SPECIAL FEATURES:

- > Hastelloy / Elgiloy diaphragm tightening system to atmosphere
- > Compact design
- > Designed and approved in accordance with relevant sections of ISO 10297:2015
- > O<sub>2</sub> ignition test according ISO 10297 for main shut off valves
- > 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

TECHNICAL DATA	
<b>Working temperature:</b>	-20 °C to +60 °C
<b>Inlet / outlet ports:</b>	1/4" NPT female Further connections – see technical drawing
<b>Max. working pressure:</b>	300 bar
<b>Cv-value:</b>	0,25
<b>Seat diameter:</b>	5 mm
<b>Leakage rate seat:</b>	<5x10 <sup>-6</sup> mbar l/s (Helium)
<b>Leakage rate outside:</b>	<1x10 <sup>-9</sup> mbar l/s (Helium)
<b>Filter</b>	1x for each inlet 1x for each outlet
<b>Weight:</b>	0,63 kg
<b>Material gas wettet parts:</b>	
<b>Valve body:</b>	Brass chrome plated
<b>Valve diaphragm:</b>	1x Hastelloy + 1x Elgiloy
<b>Valve seat:</b>	PCTFE
<b>Valve poppet:</b>	Brass
<b>Test in production:</b>	Pressure test with Helium of each item
	Seat leakage test with Helium of each item
	Helium leak test of each valve against atmosphere
	Test of functionality of each item
<b>Approvals during development:</b>	Type test in accordance with ISO 10297:2015
	O <sub>2</sub> ignition test according ISO 10297 for main shut off valves
	Electrostatic chargeability test
	<ul style="list-style-type: none"> <li>• Fulfill requirements according ISO 80079-36, IEC TS 60079-32-1 and German TRGS 727</li> <li>• Usable in EX-areas zones 1 and 2 for gases with explosion risk group I, IIA, IIB, IIC</li> </ul>

## TECHNICAL DRAWING



N14F - NPT1/4" female  
 0001 - Plugged (not for Port 1)  
 M03B - Compression Fitting ø 3 MM Brass  
 M06B - Compression Fitting ø 6 MM Brass  
 M08B - Compression Fitting ø 8 MM Brass  
 M10B - Compression Fitting ø 10 MM Brass  
 M12B - Compression Fitting ø 12 MM Brass

M03S - Compression Fitting ø 3 MM SST  
 M06S - Compression Fitting ø 6 MM SST  
 M08S - Compression Fitting ø 8 MM SST  
 M10S - Compression Fitting ø 10 MM SST  
 M12S - Compression Fitting ø 12 MM SST  
 IX2B - Compression Fitting ø 1/8" Brass  
 IX4B - Compression Fitting ø 1/4" Brass

IX6B - Compression Fitting ø 3/8" Brass  
 IX8B - Compression Fitting ø 1/2" Brass  
 IX2S - Compression Fitting ø 1/8" SST  
 IX4S - Compression Fitting ø 1/4" SST  
 IX6S - Compression Fitting ø 3/8" SST  
 IX8S - Compression Fitting ø 1/2" SST

## ORDER CODE:

Example for a Valve | PUR Linie | Brass Chrome Plated | Low Flow | Diaphragm Shut-off Valve | Manual Actuation | 4-Port Version | 3xOut

VPL	DS	M	AR	GX	N14F (1/4" NPT female)	N14F (1/4" NPT female)	N14F (1/4" NPT female)	N14F (1/4" NPT female)
	Type	Actuation	Porting Code	Working Pressure (bar)	Connection Port 1	Connection Port 3	Connection Port 5	Connection Port 7
	DS Diaphragm Shut-off Valve	M Manual	FR 4-Port (1 In   3, 5, 7 Out)	F1 130 *	possible connection	possible connection	possible connection	possible connection
				GX 300 **	see technical drawing	see technical drawing	see technical drawing	see technical drawing

\* only brass fittings

\*\* only stainless steel fittings

Order code (as described above) without special characters or spaces! Complete Order Code **VPLDSMFRGXN14FN14FN14FN14F**



Link to online product configurator