604-000-945-X2 (DN 0.3) – FACT SHEET
VP 204-907 M 08 SAX 32/00 with sensor

staiger
FLUID CONTROL EXCELLENCE

- **2-way proportional NC with integrated pressure sensor**
- **Extremely fast switching times**
- **Very small design with an outer diameter of 8 mm**
- **Long service life**

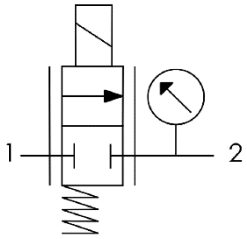
TECHNICAL DATA

Function	2-way NC
Pneumatic connection	Cartridge
Orifice size	0.3 mm
Weight	6 g
Mounting position	any
IP protection class (scope of delivery)	IP50
Operating pressure	0 – 6 bar
Pressure resistance	30 bar
Flow rate with air @ max. pressure	5 l/min
Flow coefficient kv	0.05 l/min
Temperature range, environment	5 – 50 °C
Temperature range, medium	5 – 50 °C
Temperature range, storage	5 – 50 °C
Internal tightness	< 1 ml/min
External tightness	< 1 ml/min
Media quality	≤ 10 µm
Media	Air and inert Gases, others upon request

ELECTRICAL DATA - VALVE

Electrical connection	Flex PCB / cable
Length electrical connection	27 mm
Required Molex connector type	505110-0692
Nominal voltage	32 V DC
Current range	0 – 70 mA
Nominal coil resistance @ 20 °C	308 Ω
Nominal power consumption	max. 1.5 W
Thermal resistance (no flow)	approx. 90 K/W
Permitted Duty cycle (no flow)	30 %

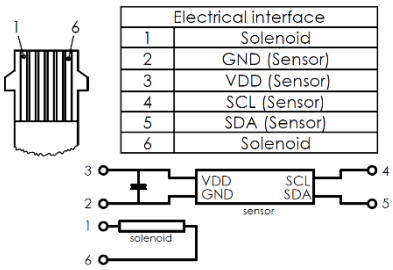
PNEUMATIC SYMBOL



ELECTRICAL DATA - SENSOR

Sensor	TE MS5849-07BA
Communication	I2C
Supply voltage	3.3 V DC
Sampling rate	0.33 – 16.4 ms
Resolution @ 0.33 ms sampling rate	1.31 mbar
Resolution @ 16.4 ms sampling rate	0.14 mbar
Absolute accuracy in range 0.85 – 7.0 bar(a)	± 50 mbar

SENSOR INTERFACE



Electrical interface	
1	Solenoid
2	GND (Sensor)
3	VDD (Sensor)
4	SCL (Sensor)
5	SDA (Sensor)
6	Solenoid

WETTED MATERIALS

1.4305, 1.4105, 1.4310
FKM, Fluoroprene, Loctite 603, Klüberalfa YV93-302, Sensor materials

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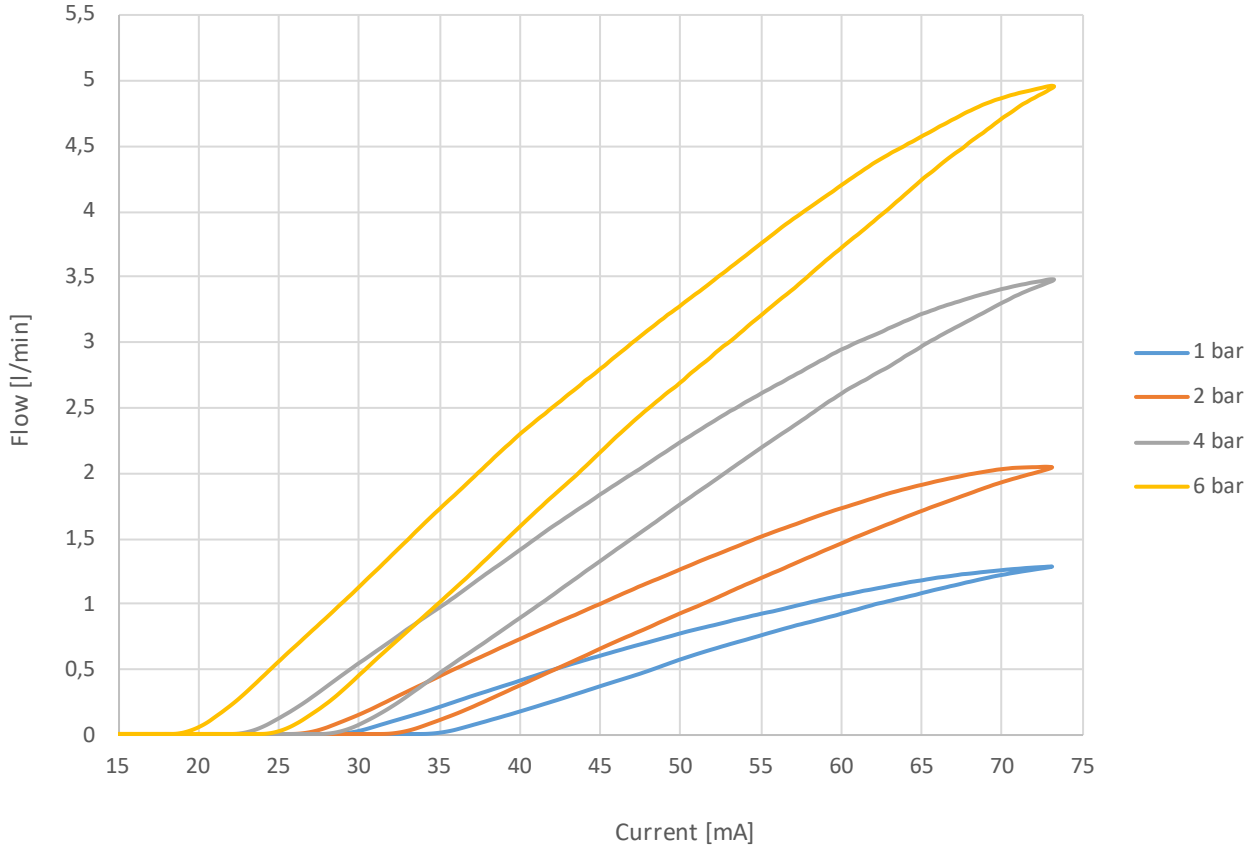
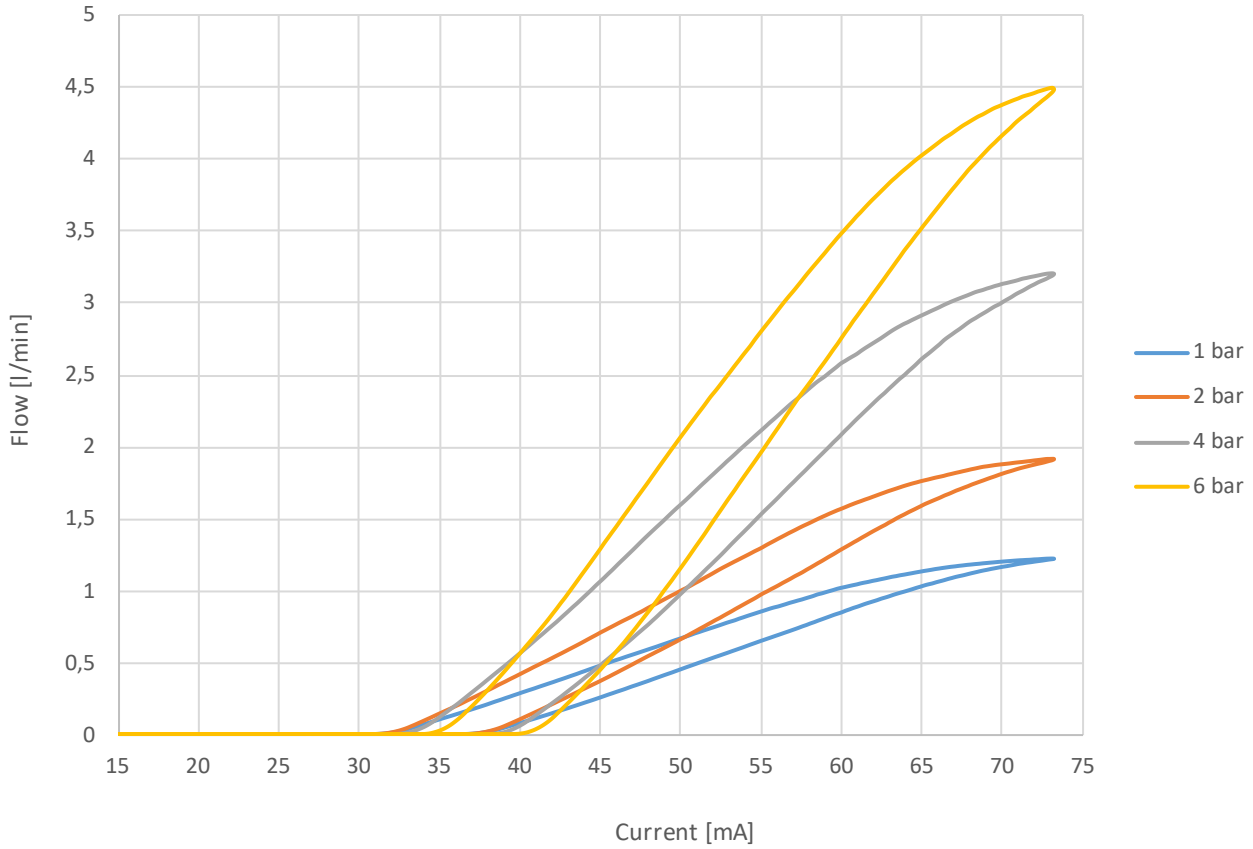
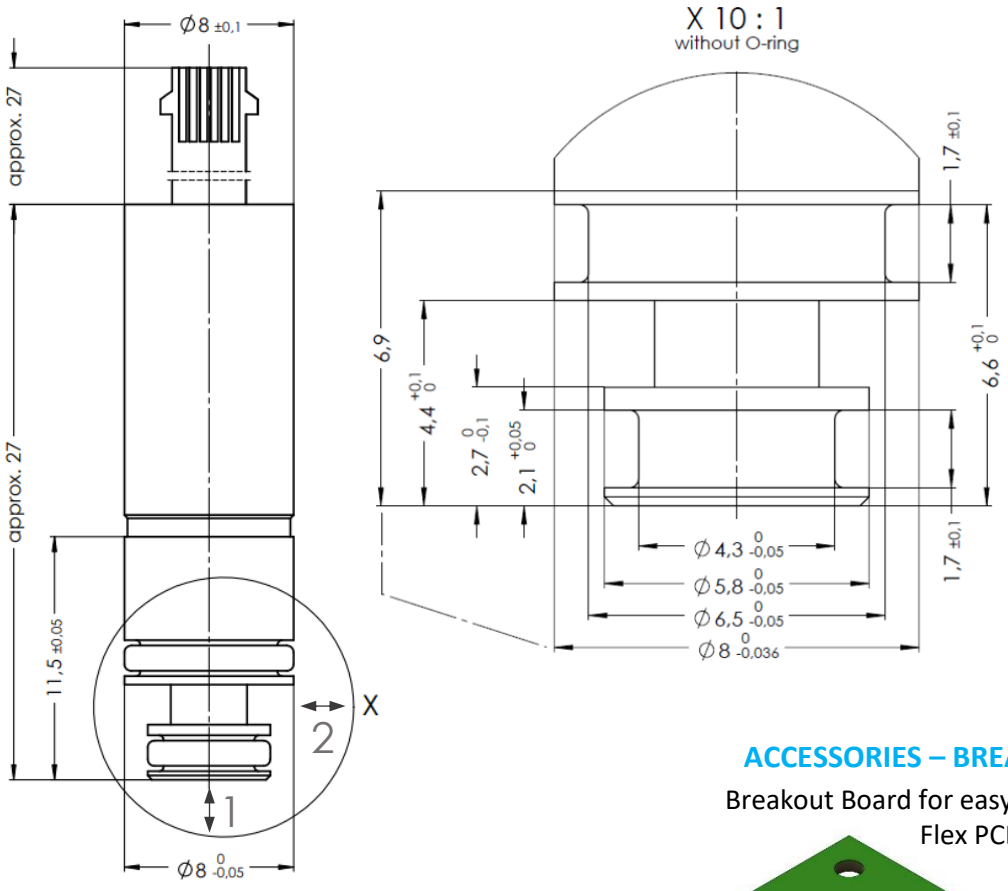
TYPICAL FLOW-CURRENT DIAGRAM WITH AIR – Flow direction below valve seat (1)



TYPICAL FLOW-CURRENT DIAGRAM WITH AIR – Flow direction above valve seat (2)

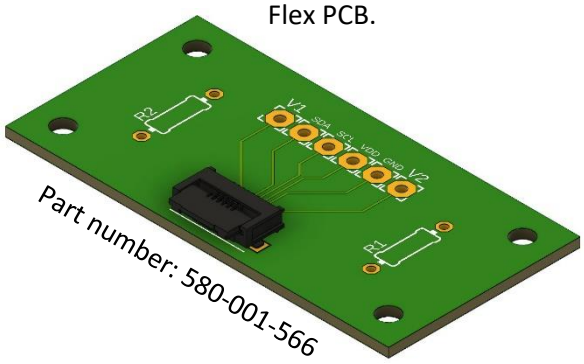


VALVE DIMENSIONS

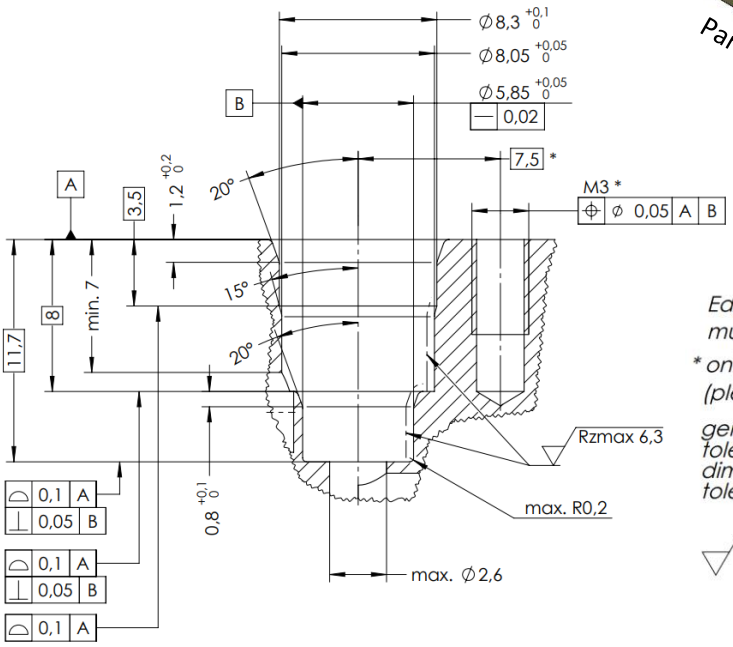


ACCESSORIES – BREAKOUT BOARD

Breakout Board for easy contacting of the Flex PCB.



INSTALLATION RECOMMENDATION



Edges on the inside diameters must be rounded and free of burrs.

** only needed if provided hold down clamp is used (please contact our team for more information)*

general tolerance acc. to DIN ISO 2768-mK
tolerancing acc. to DIN EN ISO 8015:2011
dimensions acc. to DIN EN ISO 14405
tolerances of form and position acc. to DIN EN ISO 1101

Rz 6,3 (Rzmax 6,3)