

SITRANS P measuring instruments for pressure

Fittings - Shut-off valves for differential pressure transmitters

Multiway cocks PN 100

2

Overview



Multiway cock PN 100 (7MF9004-1P.) for differential pressure transmitters
The multiway cock PN 100 can be flanged to pressure transmitters for differential pressure.

Benefits

- Version available for aggressive liquids, gases and vapors
- Robust design
- Oil-free and grease-free version possible
- One-hand operation

Application

The PN 100 multiway cock is available in versions for aggressive and non-aggressive liquids, gases and vapors.

Design

The multiway cock can be flanged with four screws to pressure transmitters for differential pressure.

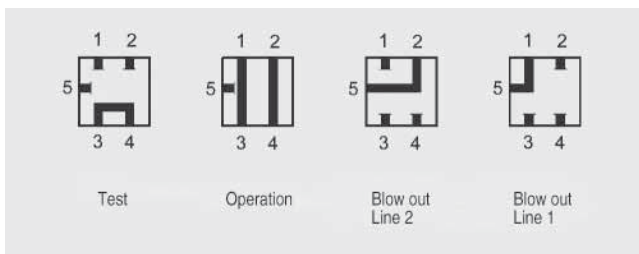
The PN 100 has 2 process connections and one blow-out connection. A steel version of the multiway cock is available for non-aggressive media, and a stainless steel version for aggressive media. The housing is forged in one piece. The switching lever is removable.

Sealing can be improved during operation.

Note: An accessory set is always required for flanging of the multiway cock to a differential pressure transmitter.

Function

- Shutting off the differential pressure lines
- Blowing out the differential pressure lines
- Testing the pressure transmitter zero



Cock positions; the symbols are printed on the cock

Technical specifications

Multiway cocks PN 100

Measured medium	Water, non-aggressive liquids and gases	Aggressive liquids, gases and vapors
Material	P250GH, mat. No.: 1.0460	X 6 CrNiMoTi 17 12 2, mat. No. 1.4571/316Ti
Connections	Steel, for pipe Ø 12 mm, L series	Stainless steel, for pipe Ø 12 mm, L series
• Process connection	2 bulkhead glands	
• Connection for blowing out	Pipe union with ferrule	
Max. permissible working temperature	200 °C	
Max. permissible working pressure	100 bar (up to max. 60 °C)	
Weight	2.5 kg	

Selection and Ordering data

Order No.

Multiway cock PN 100

F) 7MF9004 -

for flanging to pressure transmitters, weight 2.5 kg (without accessory set)

for water and non-aggressive gases and vapors

1 P

for aggressive liquids, gases and vapors

1 Q

Constructional and acceptance test

(for pressure housings)

Without certificate

A

With factory test certificate EN 10204-2.2

B

With material acceptance test certificate EN 10204-3.1

D

Selection and Ordering data

Order code

Order No.

Further designs¹⁾

Please add "-Z" to Order No. and specify Order code.

Accessory set to DIN

(required for flanging, weight 0.2 kg)
4x screws M10x25 to DIN EN 24017; chromized steel
4x washers Ø 10.5 mm to DIN 125;
2x gaskets made of PTFE, max. permissible temperature 80 °C

- Standard design

L11

F) 7MF9004-6AD

- Version for oxygen (together with Order code S11)

L15

F) 7MF9004-6AE

Accessory set to EN

(required for flanging, weight 0.2 kg)
4x screws 7/16-20 UNF x 1 inch to ASME B18.2.1; chromized steel
2x gaskets made of PTFE, max. permissible temperature 80 °C

L31

F) 7MF9004-5CC

Multiway cock in oil-free and grease-free design

Max. PN 63 (instead of PN 100), BAM-tested lubricant, gasket suitable for oxygen measurement (only with Order No. 7MF9004-1Q.Z)

S11

Mounting bracket

Required for wall mounting or for securing on rack (72 mm grid), made of electrogalvanized sheet-steel, weight 0.85 kg

M13

F) 7MF9004-6AA

¹⁾ When ordering accessory set or mounting together with the multiway cock, please use Order code; otherwise use Order No.

F) Subject to export regulations AL: 91999, ECCN: N.

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Accessories

Accessory set for multiway cock PN 100

- L11: 4 screws M10x25 to DIN EN 24017, 4 washers, 2 flat gaskets
- L15 (suitable for oxygen): 4 screws M10x25 to DIN EN 24017, 4 washers, 2 flat gaskets
- L31: 4 screws $\frac{7}{16}$ -20 UNF x 1 inch, 2 flat gaskets

Washers \varnothing 10.5 to DIN 125

Flat gaskets made of PTFE, max. permissible temperature 80 °C

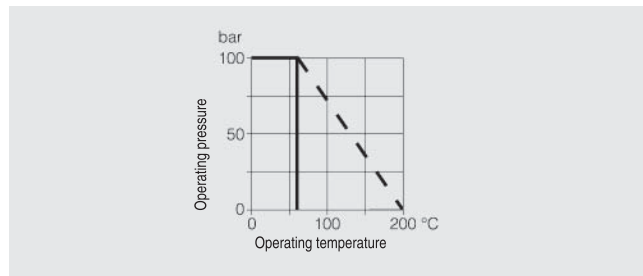
Multiway cock in oil-free and grease-free design

- S11 (only for aggressive liquids, gases and vapors (7MF9004-1Q.)): Max. PN 63 (instead of PN 100), BAM-tested lubricant, gasket suitable for oxygen

Mounting brackets

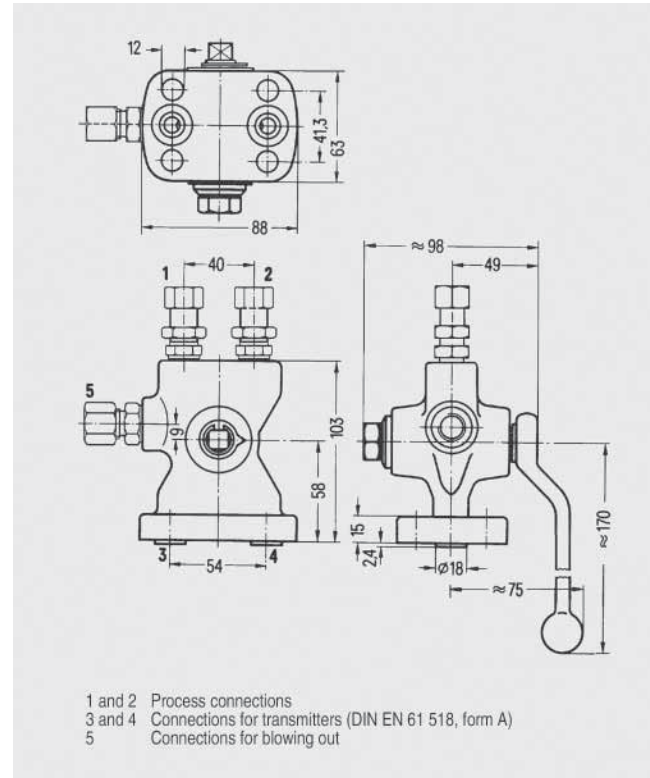
- M13: Required for wall mounting or for securing on rack (72 mm grid); made of electrogalvanized sheet-steel

Characteristic curves

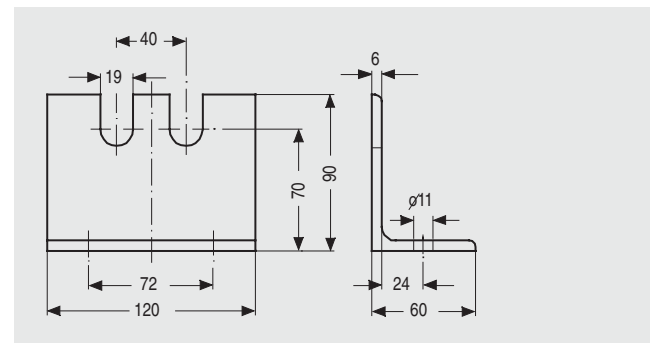


Multiway cock PN 100, permissible operating pressure as a function of the permissible operating temperature

Dimensional drawings



Multiway cock 7MF9004-1P. for flanging to pressure transmitters for differential pressure, dimensions in mm



Mounting bracket 7MF9004-6AA (M13), dimensions in mm