

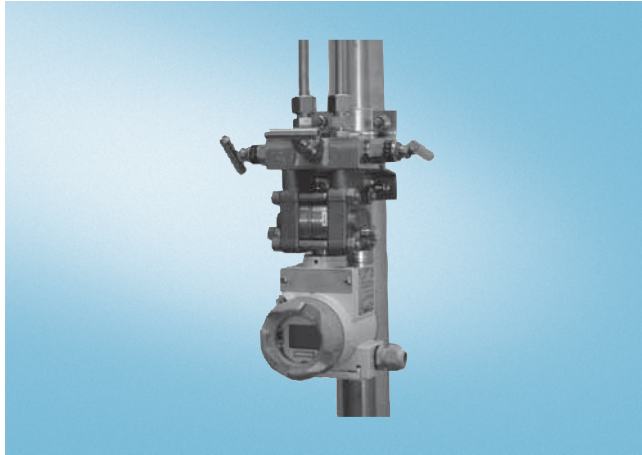
SITRANS P measuring instruments for pressure

Fittings - Shut-off valves for differential pressure transmitters

2

2-, 3- and 5-spindle valve manifolds DN 5

Overview



The 2-spindle, 3-spindle and 5-spindle valve manifolds 7MF9411-5.. are for pressure transmitters for absolute pressure or differential pressure.

The valve manifolds are used to shut off the differential pressure lines and to check the pressure transmitter zero.

The 2-spindle and the 5-spindle valve manifold enable in addition venting on the transmitter side and checking of the pressure transmitter characteristic.

Benefits

- Max. working pressure 420 bar
- Each available in version for oxygen

Application

The spindle valve manifolds DN 5 are designed for liquids and gases

Each is available in a version for oxygen on request

Design

All versions of the valve manifolds have a process connection 1/2-14 NPT. The connection for the pressure transmitter is always designed as a flange connection to EN 61518, form B. The 2-spindle and the 5-spindle valve manifold have in addition a vent and test connection 1/4-18 NPT.

The valves have an external spindle thread.

Materials used

Component	Material	Mat. No.
Housing	X 2 CrNiMo 17 13 2	1.4404/316L
Cones	X 6 CrNiMoTi 17 12 2	1.4571/316Ti
Spindles	X 2 CrNiMo 18 10	1.4404/316L
Head parts	X 5 CrNiMo 18 10	1.4401/316
Packings	PTFE	-

Function

Functions of all valve manifolds:

- Shutting off the differential pressure lines
- Checking the pressure transmitter zero

Additional functions of the 2-spindle and 5-spindle valve manifolds through the vent and test connection:

- Venting on the transmitter side
- Checking the pressure transmitter characteristic

Selection and Ordering data

Order No.

Valve manifolds DN 5

F) 7MF9411 -

for liquids and gases, for flanging to pressure transmitters for absolute and differential pressure, max. working pressure 420 bar (order accessory set with Order code)

- 2-spindle valve manifold
- 3-spindle valve manifold
- 5-spindle valve manifold

5 A

5 B

5 C

Constructional and acceptance test

without certificate

A

with factory test certificate EN 10204-2.2

B

with material acceptance test certificate EN 10204-3.1

D

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

Selection and Ordering data

Order code

Order No.

Further designs¹⁾

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

Accessory set to DIN²⁾

(connection between valve manifold and pressure transmitter)

for valve manifold 7MF9411-5A.

2x screws M10x45 to DIN EN 24014; chromized steel
2x washers Ø 10.5 mm to DIN 125;
1x gasket made of PTFE,
max. permissible 420 bar, 80 °C

K15

7MF9411-7BB

2x screws M10x45 to DIN EN 24014; **stainless steel**
2x washers Ø 10.5 mm to DIN 125, **stainless steel**;
1x gasket made of PTFE,
max. permissible 420 bar, 80 °C

K25

7MF9411-7BC

for valve manifolds 7MF9411-5B. and -5C.

4x screws M10x45 to DIN EN 24014; chromized steel
4x washers Ø 10.5 mm to DIN 125;
2x flat gaskets made of PTFE,
max. permissible 420 bar, 80 °C
Flange connection with M10 screws only permissible up to PN 160.

K16

7MF9411-6BB

4x screws M10x45 to DIN EN 24014; **stainless steel**
4x washers Ø 10.5 mm to DIN 125, **stainless steel**;
2x flat gaskets made of PTFE,
max. permissible 420 bar, 80 °C
Flange connection with M10 screws only permissible up to PN 160.

K26

7MF9411-6BC

Accessory set to EN

(connection between valve manifold and pressure transmitter)

for valve manifold 7MF9411-5A.

2x screws 7/16"-20 UNF x 1 3/4 inch to ASME B18.2.1; chromized steel
1x gasket made of PTFE,
max. permissible 420 bar, 80 °C

K35

7MF9411-7DB

2x screws 7/16"-20 UNF x 1 3/4 inch to ASME B18.2.1; **stainless steel**
1x gasket made of PTFE,
max. permissible 420 bar, 80 °C

K45

7MF9411-7DC

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Selection and Ordering data	Order code	Order No.
Further designs¹⁾		
Please add "-Z" to Order No. and specify Order code.		
<u>for valve manifold 7MF9411-5B. and -5C.</u>		
4x screws $\frac{7}{16}$ -20 UNF x 1¼ inch to ASME B18.2.1; chromized steel 2x flat gaskets made of PTFE, max. permissible 420 bar, 80 °C	K36	F) 7MF9411-5DB
4x screws $\frac{7}{16}$ -20 UNF x 1¼ inch to ASME B18.2.1; stainless steel 2x flat gaskets made of PTFE, max. permissible 420 bar, 80 °C	K46	F) 7MF9411-5DC
Mounting plate		
<ul style="list-style-type: none"> for valve manifold, made of electrogalvanized sheet-steel <ul style="list-style-type: none"> for wall mounting or for securing on rack (72 mm grid), weight 0.5 kg Scope of delivery: 1 mounting plate with bolts for mounting on valve manifold for pipe mounting, weight 0.7 kg Scope of delivery: 1x mounting plate M11, 2x pipe brackets with nuts and washers (for pipe with max. Ø 60.3 mm) for valve manifold, made of stainless steel <ul style="list-style-type: none"> for wall mounting or for securing on rack (72 mm grid), weight 0.5 kg Scope of delivery: 1 mounting plate with bolts for mounting on valve manifold for pipe mounting, weight 0.7 kg Scope of delivery: 1x mounting plate M11, 2x pipe brackets with nuts and washers (for pipe with max. Ø 60.3 mm) 	M11	F) 7MF9006-6EA
	M12	F) 7MF9006-6GA
	M21	F) 7MF9006-6EC
	M22	F) 7MF9006-6GC
Valve manifold 100 bar		
Suitable for oxygen		
<ul style="list-style-type: none"> for 7MF9411-5A. for 7MF9411-5B. for 7MF9411-5C. 	S12 S13 S14	

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

2) Flange connections to DIN 19213 only permissible up to 160!

F) Subject to export regulations AL: 9I999, ECCN: N.

Accessories

Accessory set for 2-, 3- and 5-spindle valve manifolds

2-spindle valve manifold DN 5

- K15: 2 screws M10x45 to DIN EN 24014, 2 washers, 1 flat gasket
- K35: 2 screws $\frac{7}{16}$ -20 UNF x 1¼ inch to ASME B18.2.1, 1 flat gasket

3-spindle and 5-way valve manifold DN 5

- K16: 4 screws M10x45 to DIN EN 24014, 4 washers, 2 flat gaskets
- K36: 4 screws $\frac{7}{16}$ -20 UNF x 1¼ inch to ASME B18.2.1, 2 flat gaskets

Washers Ø 10.5 to DIN 125

Flat gaskets made of PTFE, max. 420 bar, 80 °C

Note: Flange connection with M10 screws only permissible up to PN 160!

Mounting plate

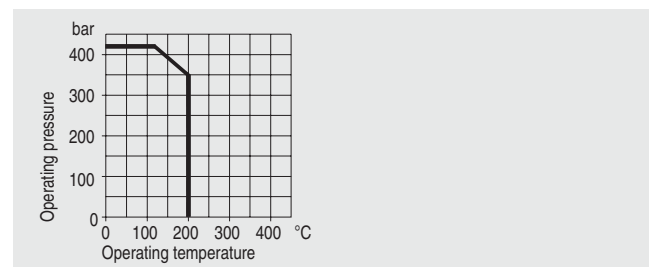
Made of electrogalvanized sheet-steel

- M11: For wall mounting or for securing on rack (72 mm grid)
Scope of delivery:
- 1 mounting plate with bolts for mounting on valve manifold
- M12: For pipe mounting
Scope of delivery:
- 1 mounting plate M11
- 2 pipe brackets with nuts and washers for pipes with max. Ø 60.3 mm

Valve manifold 100 bar, suitable for oxygen

- S12: For 2-way valve manifold
- S13: For 3-way valve manifold
- S13: For 5-way valve manifold

Characteristic curves



Valve manifolds PN 5 (7MF9411-5.), permissible working pressure as a function of the permissible working temperature

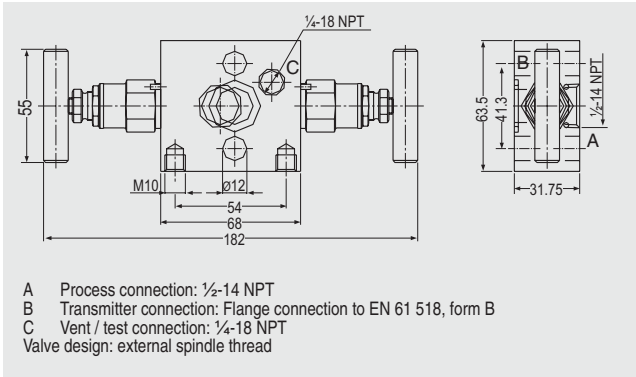
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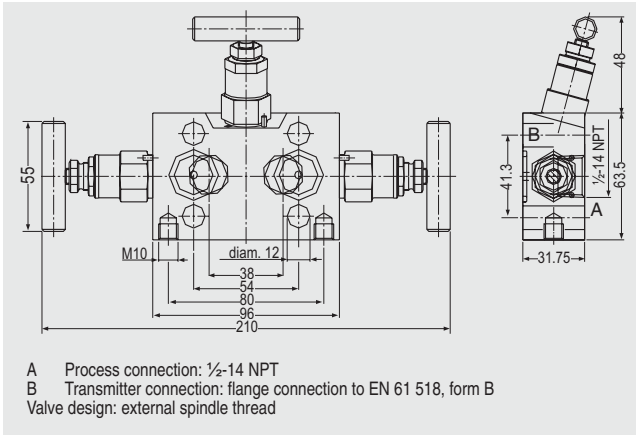
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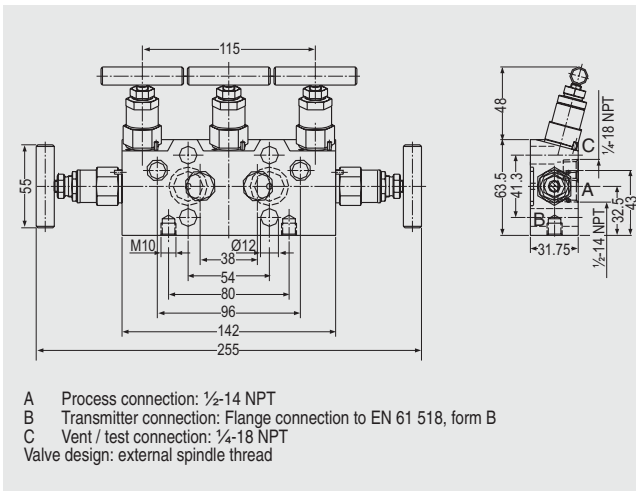
Dimensional drawings



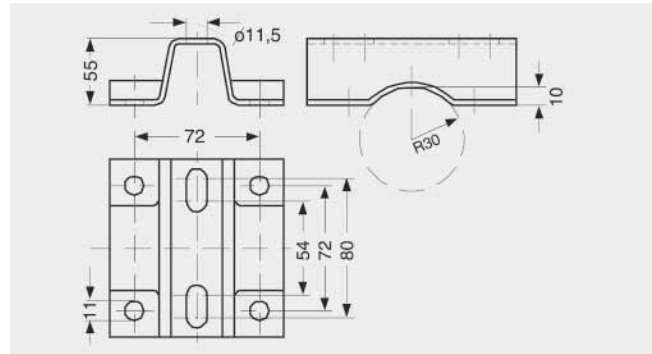
2-spindle valve manifold DN 5 (7MF9411-5A.), dimensions in mm



3-spindle valve manifold DN 5 (7MF9411-5B.), dimensions in mm

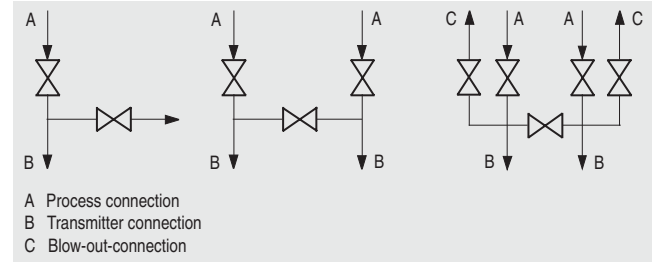


5-spindle valve manifold DN 5 (7MF9411-5C.), dimensions in mm



Mounting plate 7MF9006-6.. (M11, M12) for valve manifold, dimensions in mm

Schematics



2-spindle, 3-spindle and 5-spindle valve manifold DN 5, connections