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Selection and Ordering data

Pressure Measurement

Article No.

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

Fitttings

Shut-off valves for differential pressure transmitters

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 (6092 psi)
- 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 $\frac{1}{2}$ -14 NPT. The connection for the pressure transmitter is always designed as a flange connection to IEC 61518/DIN EN 61518, form B . The 2-spindle and the 5-spindle valve manifold have in addition a vent and test connection $\frac{1}{4}$ -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

Valve manifolds DN 5	7 MF9411 - A
↗ Click on the Article No. for the online confi- guration in the PIA Life Cycle Portal.	
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), without certificate	
 2-spindle valve manifold 	5 A
 3-spindle valve manifold 	5 B
 5-spindle valve manifold 	5 C
Accessories	
Factory test certificate EN 10204–2.2	7MF9000-8AB
Material acceptance test certificate	7MF9000-8AD

Selection and Ordering data	Order code	Article No.
Further designs ¹⁾		
Please add "-2" to Article No. and specify Order code.		
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 (6092 psi), 80 °C (176 °F)	К35	7MF9411-7DB
2x screws ⁷ / ₁₆ -20 UNF x	K45	7MF9411-7DC
1¾ inch to ASME B18.2.1; stainless steel 1x gasket made of PTFE, max. permissible 420 bar (6092 psi), 80 °C (176 °F)		
for valve manifolds 7MF9411-5B. and -5C.		
4x screws $^{7/}$ ₁₆ -20 UNF x 1 ³ / ₄ inch to ASME B18.2.1; chromized steel 2x flat gaskets made of PTFE, max. permissible 420 bar (6092 psi), 80 °C (176 °F)	К36	7MF9411-5DB
4x screws ⁷ / ₁₆ -20 UNF x 1¾ inch to ASME B18.2.1; stainless steel 2x flat gaskets made of PTFE, max. permissible 420 bar (6092 psi), 80 °C (176 °F)	К46	7MF9411-5DC
Accessory set to DIN ²⁾		
(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 (6092 psi), 80 °C (176 °F)	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 (6092 psi), 80 °C (176 °F)	K25	7MF9411-7BC

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2-, 3- and 5-spindle valve manifolds DN 5					
Selection and Ordering data	Order code	Article No.	Accessories		
Further designs ¹⁾			According to the 2 2 and 5 anindle value manifolds		
Please add "-Z" to Article No. and					
for value manifolde 7ME0411 EP			2-spindle valve manifold DN 5 $\frac{2}{2}$ (25: 0 service $\frac{7}{2}$ = 20 LINE v 13/ inch to ASME B10.0.1		
and -5C.			 R35: 2 screws 7/16-20 ONE X 1% Inch to ASME B18.2.1, 1 flat gasket 		
4x screws M10x45 to DIN EN 24014; chromized steel	K16	7MF9411-6BB	 K15: 2 screws M10x45 to DIN EN 24014, 2 washers, 1 flat gasket 		
2x flat gaskets made of PTFE,			3-spindle and 5-way valve manifold DN 5		
max. permissible 420 bar (6092 psi), 80 °C (176 °F) Flange connection with M10 screws			 K36: 4 screws ⁷/₁₆-20 UNF x 1³/₄ inch to ASME B18.2.1, 2 flat gaskets 		
only permissible up to PN 160.	K26	7ME9/11-6BC	 K16: 4 screws M10x45 to DIN EN 24014, 4 washers, 2 flat gaskets 		
stainless steel	N20	7101 3411-000	Washers Ø 10.5 to DIN 125		
4x washers Ø 10.5 mm to DIN 125, stainless steel; 2x flat gaskets made of PTFE, max, permissible 420 bar (6002 pai)			Flat gaskets made of PTFE, max. 420 bar (6092 psi), 80 °C (176 °F)		
80 °C (176 °F) Flange connection with M10 screws			Note: Flange connection with M10 screws only permissible up to PN $160!$		
Mounting plate			Mounting plate		
for valve manifold, made of			Made of electrogalvanized sheet-steel		
electrogalvanized sheet-steel			 M11: For wall mounting or for securing on rack (72 mm grid) 		
 for wall mounting or for securing on rack (72 mm grid), weight 0.5 kg 	M11	7MF9006-6EA	Scope of delivery: - 1 mounting plate with bolts for mounting on valve manifold		
Scope of delivery: 1 mounting plate with bolts for mounting on valve manifold			M12: For pipe mounting Scope of delivery: 1 mounting plate M11		
 for pipe mounting, weight 0.7 kg Scope of delivery: 	M12	7MF9006-6GA	 2 pipe brackets with nuts and washers for pipes with max. Ø 60.3 mm 		
1x mounting plate M11, 2x pipe brackets with nuts and washers			Valve manifold 100 bar, suitable for oxygen		
(for pipe with max. Ø 60.3 mm)			S12: For 2-way valve manifold		
ing on valve manifold			 S13: For 3-way valve manifold 		
 for valve manifold, made of stainless steel 316I 			S14: For 5-way valve manifold		
 for wall mounting or for securing on rack (72 mm grid), weight 	M21	7MF9006-6EC	Characteristic curves		
0.5 kg					
1 mounting plate with bolts for					
- for nine mounting, weight 0.7 kg	M22	7ME9006-6GC			
Scope of delivery:	WIZZ	7111 3000-000			
1x mounting plate M21, 2x pipe brackets with nuts and washers					
(for pipe with max. Ø 60.3 mm)			å 100		
Valve manifold 100 bar					
Oil- and grease-free cleaning for oxygen applications, max. pressure PN 100 (1450 psi) and max. tem-			Operating temperature		
perature 60 °C (140 °F)	610		Valve manifolds PN 5 (7MF9411-5), permissible working pressure as a		
• for 7ME9411-5A. • for 7ME9411-5B	S12 S13		function of the permissible working temperature		
• for 7MF9411-5C.	S14				
NACE MR-0175-certified	D07				
incl. acceptance test certificate 3.1 to EN 10204					
 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 M21, 2x pipe brackets with nuts and washers (for pipe with max. Ø 60.3 mm) Valve manifold 100 bar Oil- and grease-free cleaning for oxygen applications, max. pressure PN 100 (1450 psi) and max. tem- perature 60 °C (140 °F) for 7MF9411-5A. for 7MF9411-5B. for 7MF9411-5C. NACE MR-0175-certified incl. acceptance test certificate 3.1 to EN 10204 1) When and price cases and the maximum of t	M22 S12 S13 S14 D07	7MF9006-6GC	Valve manifolds PN 5 (7MF9411-5), permissible working pressure as a function of the permissible working temperature		

When ordering accessory set or mounting together with the valve manifolds, please use Order code; otherwise use Article No.
 Flange connections to DIN 19213 only permissible up to PN 160 (2321 psi)!

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Dimensional drawings



A Process connection: 1/2-14 NPT

В Transmitter connection: Flange connection to IEC 61518, form B

- С Vent / test connection: 1/4-18 NPT
- Valve design: external spindle thread

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



A Process connection: ½-14 NPT

Transmitter connection: Flange connection to IEC 61518, form B В Valve design: external spindle thread



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

- A Process connection: 1/2-14 NPT
- В Transmitter connection: Flange connection to IEC 61518, form B
- С Vent / test connection: 1/4-18 NPT

Valve design: external spindle thread

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



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



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