Pressure Measurement

Fitttings

Shut-off valves for differential pressure transmitters

Valve manifold combination DN 8

Overview



The valve manifold combination DN 8 (7MF9416-4..) is for pressure transmitters for differential pressure.

It is used to shut off and blow out the differential pressure lines and to check the pressure transmitter zero.

In the designs with a test connection, a test device can be connected to check the pressure transmitter characteristic.

Benefits

• Max. working pressure 420 bar (6092 psi)

Application

The valve manifold combination DN 8 is designed for vapors.

Design

The valve manifold combination DN 8 has a process connection with welding pins.

The connection for the pressure transmitter is designed as as flange connection, while the blow-out connection is designed as a pipe union with ferrule.

The manifold valves have an internal spindle thread, while the blow-out valves have an external spindle thread.

The optional test connection is M20x1.5.

The valve manifold combination DN 8 is supplied with a mounting plate.

Materials used

	Valve manifold		Blow-out valv	ves
Component	Material	Mat. No.	Material	Mat. No.
Housing	P250GH	1.0460	16 Mo 3	1.5415
Head parts	C 35	1.0501	21 CrMo V57	1.7709
Spindles	X 12 CrMoS 17	1.4104	X 20 Cr 13	1.4021
Cones	X 35 CrMo 17	1.4122	X 35 CrMo 17 hardened and tem- pered	1.4122
Valve seats	X 6 CrNiMoTi	1.4571/316Ti	X 20 Cr 13	1.4021
Packings	PTFE	-	Pure graphite	-
Welding pins	-	-	16 Mo 3	1.5415

Function

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

As an option it is possible to order a version with a test connection, to which a test device for checking the pressure transmitter characteristic can be connected.

	Selection and Ordering data	Article No.				
	Valve manifold combination DN 8 for vapors	7 7MF9416			A	
	∠ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.					
	for flanging to pressure transmitters for differential pressure, with mounting plate, max. working pressure 420 bar (6092 psi), also available in stainless steel on request (order accessory set with Order code), without certificate					
	• without test connection		4	С		
	• with test connection M20 × 1.5		4	D		
	Accessories					
Factory test certificate EN 10204–2.2		7MF9000-8AB				
	Material acceptance test certificate EN 10204-3.1	7MF9000-8AD				

dering data	Order code	Article No.
1)		
EB18.2; chromized 3771, M90,	В34	7MF9410-5CA
5 mm to DIN 125; 3771, M90, 420 bar (6092 psi), n to DIN 19 213	B16	7MF9010-6CC
	Article No. and de. Article No. and de. EN Signing, weight 0.2 kg) UNF x E B18.2; chromized 3771, M90, 420 bar (6092 psi), DIN ²) Signing, weight 0.2 kg) 5 to DIN EN 24014; 5 mm to DIN 125; 3771, M90, 420 bar (6092 psi), in to DIN 19 213 up to PN 160!	Article No. and de. DEN ging, weight 0.2 kg) UNF x E B18.2; chromized 3771, M90, 420 bar (6092 psi), DIN ²) ging, weight 0.2 kg) 5 to DIN EN 24014; 5 mm to DIN 125; 3771, M90, 420 bar (6092 psi), n to DIN 19 213

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

Accessories

Accessory set for valve manifold combination DN 8 for flanging

- \bullet B34: 4 screws $^7/_{16}$ -20 UNF x $2^1/_8$ inch to ASME B 18.2.1, 2 O-rings (FPM 90)
- B16: 4 screws M10x55 to DIN EN 24014, 4 washers, 2 O-rings (FPM 90)

Washers Ø 10.5 to DIN 125

O-ring to DIN 3771, 20 x 2.65 - S - FPM90, max. 420 bar (6092 psi), 120 °C (248 °F)

Note: M10 screws only permissible up to PN 160 (2321 psi)!

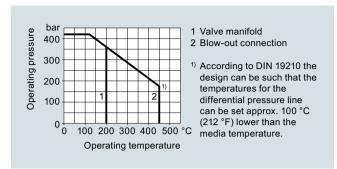
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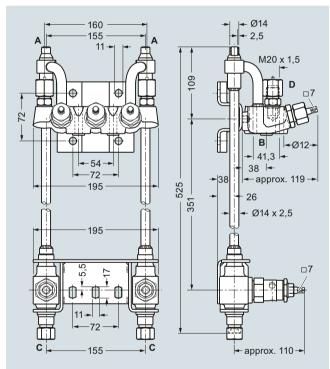
Valve manifold combination DN 8

Characteristic curves



Permissible operating pressure as a function of the permissible operating temperature

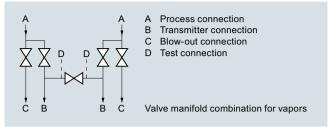
Dimensional drawings



- A Process connection (e.g. on primary device): Welding pin
- B Transmitter connection: Flange connection to EN 61518, form A C Blow-out connection: Pipe union with ferrule, diameter 14 mm,
- S series to DIN 2353 D Test connection (only with Article No. 7MF9416-4D.): M20 x 1,5
- Valve design:
- Manifold valves: internal spindle thread
- Blow-out valves: external spindle thread

Valve manifold combination DN 8 (7MF9416-4..), dimensions in mm

Schematics



Valve manifold combination DN 8, connections