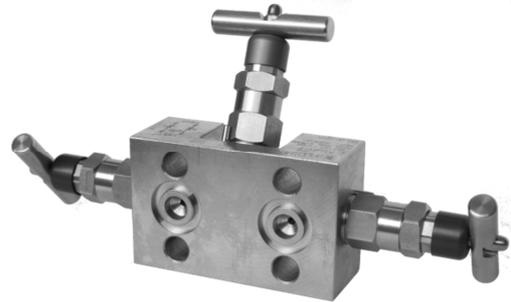


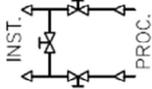
Badotherm three valve manifold model BDTM931 can be used for isolation, calibration, and testing of differential pressure instruments. The BDTM931 manifold has a flanged instrument connection suitable for Differential Pressure transmitters. The equalizing bonnet is inclined with a 30° angle. All Badotherm valves are standard stainless steel and optional available in exotic materials, such as Hastelloy® and Monel®. This valve has a non-rotatable conical tip to ensure perfect alignment. Badotherm valves are manufactured within the European Union.



MATERIAL SPECIFICATIONS

BODY	STEM	TIP	BONNET	GASKET
AISI316(L)	AISI630	AISI420	AISI316(L)	PTFE

TECHNICAL SPECIFICATIONS

BDTM931		flow diagram	product features
Process connection	1/2" NPT-f		rotating spindle tip
Instrument connection	flanged acc. IEC 61518		bonnet locking pins
Vent connection	-		safety back seating T-bar
Maximum pressure	413 bar at 38°C		
Maximum temperature	240 °C		

EXOTIC MATERIAL EXECUTIONS

	AISI 316(L) SG ¹	Monel® 400	Hastelloy® C-276 ²	Duplex 2205
Body	AISI316(L)	Monel® 400	Hastelloy® C-276	Duplex 2205
Stem	Monel® 400	Monel® 400	Hastelloy® C-276	Duplex 2205
Tip	Monel® 500	Monel® 500	Ultimet®	Duplex 2205
Bonnet	AISI316(L)	Monel® 400	Hastelloy® C-276	Duplex 2205
Vent plug	AISI316(L)	Monel® 400	Hastelloy® C-276	Duplex 2205

1: SG = sour gas execution < 50 mg/l chloride; 2: SG = sour gas execution > 50 mg/l chloride

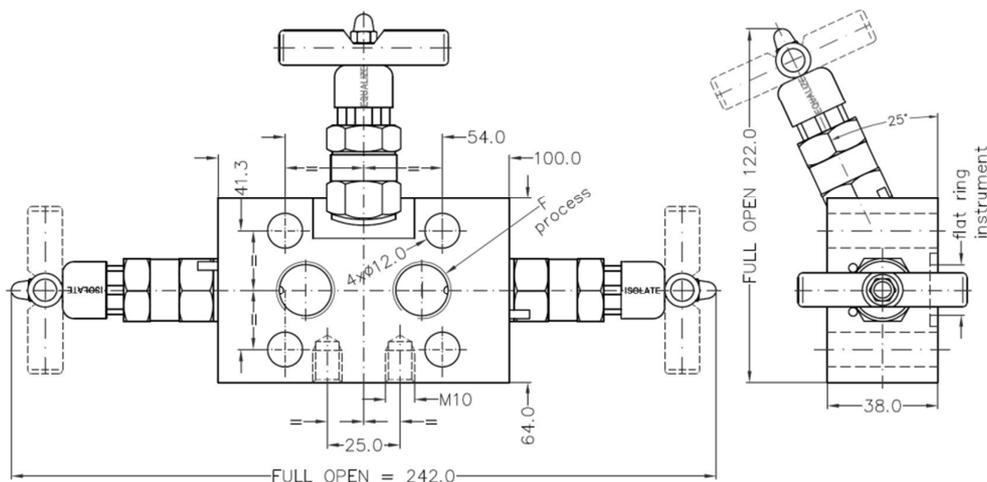
OPTIONS

GASKET	graphite for temperatures up to 450°C
CLEANING	for oxygen service (only with PTFE gasket)

DESIGN INFORMATION AND DRAWINGS

DESIGN STANDARD
EN 12266-1 / SP 99

PRESSURE TESTING
1.5x MWP @ 20°C



PRESSURE / TEMPERATURE TABLE

Temperature °C	316(L)	Monel® 400	Hastelloy® C276	Duplex 2205
-29 ... -17 °C ¹	413	335	431	431
-17... 38 °C	413 ²	335 ²	431 ²	431 ²
50 °C	401	299	431	431
100 °C	351	281	429	422
150 °C	321	272	418	382
200 °C	297	272	403	355
250 °C ¹	278	272	386	337
300 °C ¹	263	272	357	323
350 °C ¹	253	272	335	314
400 °C ¹	245	267	305	304
450 °C ¹	240	224	282	-

All pressures in Bar

1: Only applicable in combination with Graphite gasket;

2: MWP at 20°C



Holland – United Kingdom – Romania – India – Thailand – Dubai - USA

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