


Badotherm instrument valve model BDTV912 can be used for shutting off impulse lines or for isolation of pressure instruments. The instrument connection has a three port connection. All Badotherm valves are standard stainless steel and optional available in exotic materials, such as Hastelloy, Duplex, 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	SPINDLE GASKET
AISI 316(L)	AISI 316(L)	AISI 316(L)	AISI 316(L)	Virgin PTFE

TECHNICAL SPECIFICATIONS

	BDTV912	flow diagram	product features
Process connection (F)	1/2" NPT-m		<ul style="list-style-type: none"> non-rotating spindle tip bonnet locking pins safety back seating T-bar isolation valve (blue)
Instrument connection (F1)	1/2" NPT-f		
Maximum pressure	413 bar (6.000 psi) at 38°C		
Maximum temperature	240 °C		

EXOTIC STEM AND TIP CONFIGURATIONS WITH BODY MATERIALS

stem	tip	body material								
		AISI 316(L)	AISI 321	Monel 400	Hastelloy C276	Duplex F51	Super Duplex F53	Super Duplex F55	Inconel 625	Titanium Gr. 2
AISI 630	AISI 420	○								
AISI 316(L)	AISI 316(L)	●								
AISI 321	AISI 321		●							
Monel 400	Monel 500	○		●						
Hastelloy C276	Hastelloy C276				●					
Duplex F51	Duplex F51					●				
Super Duplex F53	Super Duplex F53						●			
Super Duplex F55	Super Duplex F55							●		
Inconel 625	Inconel 625								●	
Titanium Gr. 2	Titanium Gr. 2									●
Stellite 6B	Stellite 6B	○	○	○	○	○	○	○	○	○

● = standard / ○ = optional

SPINDLE GASKET

material	operating temperature
Virgin PTFE	-200 / +260°C
Flexible Graphite	-250 / +450°C

PROCESS (F) AND INSTRUMENT (F1) CONNECTIONS

1/4"	3/8"	1/2"	other
NPT-f	NPT-f	NPT-f	butt weld ¹
NPT-m ¹	NPT-m ¹	NPT-m ¹	swivel ¹
BSP-f	BSP-f	BSP-f	socket weld ¹
BSP-m ¹	BSP-m ¹	BSP-m ¹	tube fitting ¹
BSP-f EN837	BSP-f EN837	BSP-f EN837	
BSP-m EN837 ¹	BSP-m EN837 ¹	BSP-m EN837 ¹	

¹ Only available for process connection

OPTIONS

- cleaning for oxygen service (only with Virgin PTFE spindle gasket)
- high pressure up to 689 bar (10.000 psi) at 38°C
- anti-tamper spindle to prevent unauthorized use
- mounting bracket for 2" pipe mounting

DESIGN INFORMATION AND DRAWINGS

DESIGN STANDARD

EN 12266-1 / SP 99 / SP 61

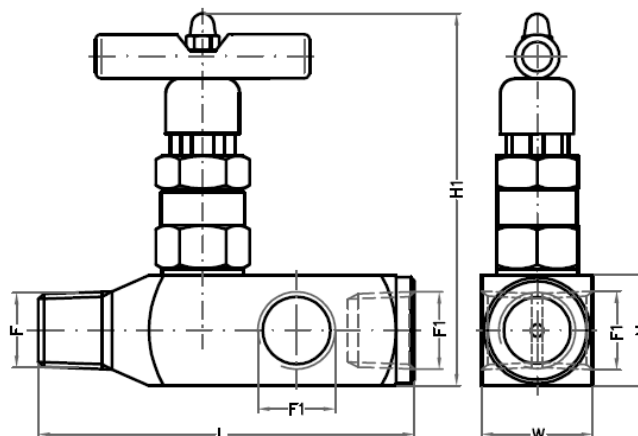
PRESSURE TESTING

1.5x MWP @ 20°C for shell test

1.1x MWP @ 20°C for seat test

WEIGHT

0.9 kg



F	F1	L	H	H1 min	H1 max	W
1/4"NPT-f	1/4"NPT-f	92	30	98	102	30
1/4"NPT-m	1/4"NPT-f	92	30	98	102	30
1/4"BSP-f ¹	1/4"BSP-f	92	30	98	102	30
1/4"BSP-m ²	1/4"BSP-f	92	30	98	102	30
1/4"BSP-f EN837	1/4"BSP-f EN837	92	30	98	102	30
1/4"BSP-m EN837	1/4"BSP-f EN837	92	30	98	102	30
3/8"NPT-f	3/8"NPT-f	97	30	98	102	30
3/8"NPT-m	3/8"NPT-f	97	30	98	102	30
3/8"BSP-f ¹	3/8"BSP-f	97	30	98	102	30
3/8"BSP-m ²	3/8"BSP-f	97	30	98	102	30
3/8"BSP-f EN837	3/8"BSP-f EN837	97	30	98	102	30
3/8"BSP-m EN837	3/8"BSP-f EN837	97	30	98	102	30
1/2"NPT-f	1/2"NPT-f	102	30	98	102	30
1/2"NPT-m	1/2"NPT-f	102	30	98	102	30
1/2"BSP-f ¹	1/2"NPT-f	102	30	98	102	30
1/2"BSP-m ²	1/2"NPT-f	102	30	98	102	30
1/2"BSP-f EN837	1/2"NPT-f	102	30	98	102	30
1/2"BSP-m EN837	1/2"NPT-f	102	30	98	102	30
butt weld	1/2"NPT-f	102	30	98	102	30
swivel	1/2"NPT-f	102	30	98	102	30
socket weld	1/2"NPT-f	112	30	98	102	30
tube fitting	1/2"NPT-f	102	30	98	102	30

All dimensions in mm

¹ In accordance with ISO 1179-1

² In accordance with ISO 1179-4

Non limitative list: other configuration dimensions on request

PRESSURE TEMPERATURE TABLE

temperature °C	AISI 316(L)	Monel 400	Hastelloy C276	Duplex F51	Super Duplex F53 / F55	Inconel 625
-29 / -17 °C ¹	413	335	431	431	431	431
-17 / +38 °C	413	335	431	431	431	431
50 °C	401	299	431	431	431	431
100 °C	351	281	429	422	422	429
150 °C	321	272	418	382	383	418
200 °C	297	272	403	355	355	403
250 °C ¹	278	272	386	337	337	386
300 °C ¹	263	272	357	323	324	357
350 °C ¹	253	272	335	-	-	335
400 °C ¹	245	267	305	-	-	305
450 °C ¹	240	224	282	-	-	282

All pressures in Bar

¹ Only applicable in combination with Flexible Graphite gasket



Holland – UK – Romania – India – Thailand – Dubai – USA

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