

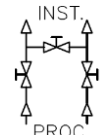
Badotherm manifold model BDTM934 is a three valve manifold that can be used for isolation, calibration, and testing of instruments. The BDTM934 manifold has the process connection at the bottom and the instrument connection on the top. This manifold does not have a purge connection. All Badotherm manifolds are standard stainless steel and optional available in exotic materials. This valve has a non-rotatable conical tip to ensure perfect alignment for a bubble tight shut-off.



MATERIAL SPECIFICATIONS

| BODY | STEM | TIP | BONNET | SPINDLE GASKET |
|-------------|-------------|-------------|-------------|----------------|
| AISI 316(L) | AISI 316(L) | AISI 316(L) | AISI 316(L) | Virgin PTFE |

TECHNICAL SPECIFICATIONS

| BDTM934 | | flow diagram | product features |
|----------------------------|-----------------------------|---|----------------------------|
| Process connection (F) | 1/2" NPT-f |  | rotating spindle tip |
| Instrument connection (F1) | 1/2" NPT-f | | bonnet locking pins |
| Vent connection | - | | safety back seating T-bar |
| Maximum pressure | 413 bar (6.000 psi) at 38°C | | 2x isolation valves (blue) |
| Maximum temperature | 240 °C | | equalizing valve (green) |

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 |

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

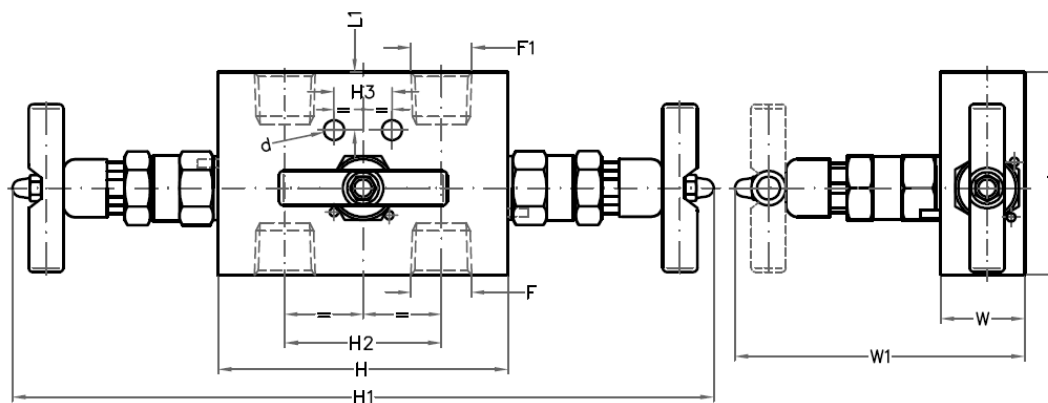
PRESSURE TESTING

1.5x MWP @ 20°C for shell test

1.1x MWP @ 20°C for seat test

WEIGHT

2.1 kg



| L | L1 | H | H1 min | H1 max | H2 | H3 | W | W1 min | W1 max | d |
|----|----|----|--------|--------|----|----|----|--------|--------|----|
| 70 | 20 | 98 | 232 | 240 | 54 | 20 | 29 | 97 | 101 | Ø7 |

All dimensions in mm

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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