

EXT is typically used in combination with (differential) pressure transmitters for level, flow and (absolute) pressure measurement, in those applications where the diaphragm need to be flush with the vessel wall or where insulation layers need to be passed.


STANDARD EXECUTION

| DIAPHRAGM | BODY | MOUNTING CONNECTION |
|-------------|-------------|---------------------|
| AISI 316(L) | AISI 316(L) | top (axial) |
| FACING | TYPE | STANDARD LENGTH |
| RF | type B1 | 50/100/150/200 mm |

FLANGED PROCESS CONNECTIONS
ASME B16.5

| size | rating | dD |
|------|--------------------|--------|
| 1.5" | cl. 150 - cl. 600 | 32.0mm |
| 2" | cl. 150 - cl. 2500 | 44.0mm |
| 2.5" | cl. 150 - cl. 2500 | 44.0mm |
| 3" | cl. 150 - cl. 2500 | 72.0mm |
| 4" | cl. 150 - cl. 2500 | 81.0mm |

EN 1092-1

| size | rating | dD |
|-------|----------|--------|
| DN40 | PN10-100 | 32.0mm |
| DN50 | PN10-100 | 44.0mm |
| DN80 | PN10-100 | 72.0mm |
| DN100 | PN10-100 | 81.0mm |

JIS B2220

| size | rating | facing | dD |
|-----------|-----------|--------|--------|
| 40 (1.5") | 10K – 20K | RF | 32.0mm |
| 50 (2") | 10K – 20K | RF | 44.0mm |
| 80 (3") | 10K – 20K | RF | 81.0mm |
| 90 (3.5") | 10K – 20K | RF | 81.0mm |
| 100(4") | 10K – 20K | RF | 81.0mm |

WETTED PARTS, BODY MATERIALS, AND FACING OPTIONS

| body material | diaphragm material |
|-----------------|--|
| AISI 316(L) | AISI 316(L) AISI 304L AISI 321 AISI 316 UG Hastelloy C-276 |
| AISI 904(L) | AISI 904(L) |
| Hastelloy B2 | Hastelloy B2 |
| Hastelloy C-276 | Hastelloy C-276 |
| Duplex F44 | 6Mo |
| Duplex F51/F60 | Duplex 2205 |
| Duplex F53 | Super Duplex 2507 |
| Duplex F55 | Super Duplex 2507 |
| Inconel 600 | Inconel 600 |
| Inconel 625 | Inconel 625 |
| Inconel 825 | Inconel 825 |
| Monel 400 | Monel 400 |
| Nickel 201 | Nickel 201 |
| Titanium Gr. 2 | Titanium Gr. 2 |
| Zirconium 702 | Zirconium 702 |

| facing (ASME B16.5) | |
|---------------------|---------------|
| RF | Ra 3.2-6.3 µm |
| RJF | Ra <1.6 µm |
| LMF | Ra 3.2-6.3 µm |
| SMF | Ra <3.2 µm |
| LTF | Ra <3.2 µm |
| STF | Ra <3.2 µm |
| LGF | Ra <3.2 µm |
| SGF | Ra <3.2 µm |

| facing type (EN 1092-1) | |
|-------------------------|----------------|
| B1 | Ra 3.2-12.5 µm |
| A | Ra 3.2-12.5 µm |
| B2 | Ra 0.8-3.2 µm |
| C | Ra 0.8-3.2 µm |
| D | Ra 0.8-3.2 µm |
| E | Ra 3.2-12.5 µm |
| F | Ra 3.2-12.5 µm |

COATING AND OTHER OPTIONS

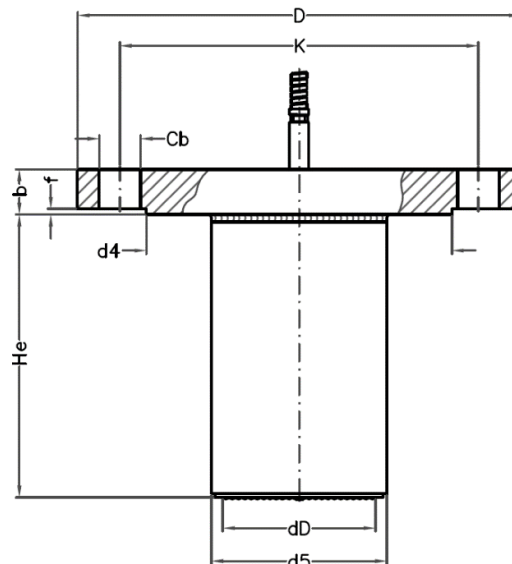
COATINGS

- gold: 25 μm / 40 μm hydrogen permeation protection (diaphragm only)
- PTFE / ECTFE for anti-stick purpose only
- FEP / PFA
- thermal spray

OTHER OPTIONS

- set of handles welded on side of flange
- heavy duty capillary tube
- TR - temperature reducer
- TC - temperature compensator
- capillary side mounted (radial)
- PTFE sleeve / lining
- customized length and diameter
- degreased wetted parts
- polished extension
- jacket holes
- tapered extension

DRAWING AND DIMENSIONS STANDARD EXECUTIONS



ASME B16.5 - RF FACING

| size | rating | facing | dD | b | D | d4 | d5 | f | He | K | Cb / pcs |
|------|-----------|--------|------|------|-------|-------|------|-----|---------|-------|-----------|
| 1.5" | 150# | RF | 32.0 | 17.9 | 125.0 | 73.0 | 37.0 | 2.0 | various | 98.4 | 15.9 / 4x |
| 1.5" | 300# | RF | 32.0 | 21.1 | 155.0 | 73.0 | 37.0 | 2.0 | various | 114.3 | 22.3 / 4x |
| 1.5" | 400-600# | RF | 32.0 | 29.3 | 155.0 | 73.0 | 37.0 | 7.0 | various | 114.3 | 22.3 / 4x |
| 2" | 150# | RF | 44.0 | 19.5 | 150.0 | 92.1 | 48.0 | 2.0 | various | 120.7 | 19.1 / 4x |
| 2" | 300# | RF | 44.0 | 22.7 | 165.0 | 92.1 | 48.0 | 2.0 | various | 127.0 | 19.1 / 8x |
| 2" | 400-600# | RF | 44.0 | 32.4 | 165.0 | 92.1 | 48.0 | 7.0 | various | 127.0 | 19.1 / 8x |
| 2" | 900-1500# | RF | 44.0 | 45.1 | 215.0 | 92.1 | 48.0 | 7.0 | various | 165.1 | 25.4 / 8x |
| 2" | 2500# | RF | 44.0 | 57.9 | 235.0 | 92.1 | 48.0 | 7.0 | various | 171.4 | 28.6 / 8x |
| 2.5" | 150# | RF | 44.0 | 22.7 | 180.0 | 104.8 | 48.0 | 2.0 | various | 139.7 | 19.1 / 8x |
| 2.5" | 300# | RF | 44.0 | 25.9 | 190.0 | 104.8 | 48.0 | 2.0 | various | 149.2 | 22.3 / 8x |
| 2.5" | 400-600# | RF | 44.0 | 35.6 | 190.0 | 104.8 | 48.0 | 7.0 | various | 149.2 | 22.3 / 8x |
| 2.5" | 900-1500# | RF | 44.0 | 48.3 | 245.0 | 104.8 | 48.0 | 7.0 | various | 190.5 | 28.6 / 8x |
| 2.5" | 2500# | RF | 44.0 | 64.2 | 265.0 | 104.8 | 48.0 | 7.0 | various | 196.8 | 31.8 / 8x |
| 3" | 150# | RF | 72.0 | 24.3 | 190.0 | 127.0 | 76.0 | 2.0 | various | 152.4 | 19.1 / 4x |
| 3" | 300# | RF | 72.0 | 29.0 | 210.0 | 127.0 | 76.0 | 2.0 | various | 168.3 | 22.3 / 8x |
| 3" | 400-600# | RF | 72.0 | 38.8 | 210.0 | 127.0 | 76.0 | 7.0 | various | 168.3 | 22.3 / 8x |
| 3" | 900# | RF | 72.0 | 45.1 | 240.0 | 127.0 | 76.0 | 7.0 | various | 190.5 | 25.4 / 8x |
| 3" | 1500# | RF | 72.0 | 54.7 | 265.0 | 127.0 | 76.0 | 7.0 | various | 203.2 | 31.8 / 8x |
| 3" | 2500# | RF | 72.0 | 73.7 | 305.0 | 127.0 | 76.0 | 7.0 | various | 228.6 | 34.9 / 8x |
| 4" | 150# | RF | 81.0 | 24.3 | 230.0 | 157.2 | 93.0 | 2.0 | various | 190.5 | 19.1 / 8x |
| 4" | 300# | RF | 81.0 | 32.2 | 255.0 | 157.2 | 93.0 | 2.0 | various | 200.0 | 22.3 / 8x |
| 4" | 400# | RF | 81.0 | 42.0 | 255.0 | 157.2 | 93.0 | 7.0 | various | 200.0 | 25.4 / 8x |
| 4" | 600# | RF | 81.0 | 45.1 | 275.0 | 157.2 | 93.0 | 7.0 | various | 215.9 | 25.4 / 8x |
| 4" | 900# | RF | 81.0 | 51.5 | 290.0 | 157.2 | 93.0 | 7.0 | various | 235.0 | 31.8 / 8x |
| 4" | 1500# | RF | 81.0 | 61.0 | 310.0 | 157.2 | 93.0 | 7.0 | various | 241.3 | 34.9 / 8x |
| 4" | 2500# | RF | 81.0 | 83.2 | 355.0 | 157.2 | 93.0 | 7.0 | various | 273.0 | 41.3 / 8x |

All dimensions in mm

EN 1092-1 - TYPE B1

| size | rating | type | dD | b | D | d4 | d5 | f | He | K | Cb / pcs |
|-------|----------|------|------|------|-------|-------|------|-----|---------|-------|-----------|
| DN40 | PN10-40 | B1 | 44.0 | 18.0 | 150.0 | 88.0 | 48.0 | 3.0 | various | 110.0 | 18.0 / 4x |
| DN40 | PN63-100 | B1 | 44.0 | 26.0 | 170.0 | 88.0 | 48.0 | 3.0 | various | 125.0 | 22.0 / 4x |
| DN50 | PN10-16 | B1 | 44.0 | 18.0 | 165.0 | 102.0 | 48.0 | 3.0 | various | 125.0 | 18.0 / 4x |
| DN50 | PN25-40 | B1 | 44.0 | 20.0 | 165.0 | 102.0 | 48.0 | 3.0 | various | 125.0 | 18.0 / 4x |
| DN50 | PN63 | B1 | 44.0 | 26.0 | 180.0 | 102.0 | 48.0 | 3.0 | various | 135.0 | 22.0 / 4x |
| DN50 | PN100 | B1 | 44.0 | 28.0 | 195.0 | 102.0 | 48.0 | 3.0 | various | 145.0 | 26.0 / 4x |
| DN80 | PN10-16 | B1 | 72.0 | 20.0 | 200.0 | 138.0 | 76.0 | 3.0 | various | 160.0 | 18.0 / 8x |
| DN80 | PN25-40 | B1 | 72.0 | 24.0 | 200.0 | 138.0 | 76.0 | 3.0 | various | 160.0 | 18.0 / 8x |
| DN80 | PN63 | B1 | 72.0 | 28.0 | 215.0 | 138.0 | 76.0 | 3.0 | various | 170.0 | 22.0 / 8x |
| DN80 | PN100 | B1 | 72.0 | 32.0 | 230.0 | 138.0 | 76.0 | 3.0 | various | 180.0 | 26.0 / 8x |
| DN100 | PN10-16 | B1 | 81.0 | 20.0 | 220.0 | 158.0 | 93.0 | 3.0 | various | 180.0 | 18.0 / 8x |
| DN100 | PN25-40 | B1 | 81.0 | 24.0 | 235.0 | 162.0 | 93.0 | 3.0 | various | 190.0 | 22.0 / 8x |
| DN100 | PN63 | B1 | 81.0 | 30.0 | 250.0 | 162.0 | 93.0 | 3.0 | various | 200.0 | 26.0 / 8x |
| DN100 | PN100 | B1 | 81.0 | 36.0 | 265.0 | 162.0 | 93.0 | 3.0 | various | 210.0 | 30.0 / 8x |

All dimensions in mm

JIS B2220 - RF FACING

| size | rating | facing | dD | b | D | d4 | d5 | f | He | K | Cb / pcs |
|------|--------|--------|------|------|-------|-------|------|-----|---------|-------|-----------|
| 40 | 10K | RF | 32.0 | 18.0 | 140.0 | 81.0 | 37.0 | 2.0 | various | 105.0 | 19.0 / 4x |
| 40 | 16K | RF | 32.0 | 18.0 | 140.0 | 81.0 | 37.0 | 2.0 | various | 105.0 | 19.0 / 4x |
| 40 | 20K | RF | 32.0 | 20.0 | 140.0 | 81.0 | 37.0 | 2.0 | various | 105.0 | 19.0 / 4x |
| 50 | 10K | RF | 44.0 | 18.0 | 155.0 | 96.0 | 48.0 | 2.0 | various | 120.0 | 19.0 / 4x |
| 50 | 16K | RF | 44.0 | 18.0 | 155.0 | 96.0 | 48.0 | 2.0 | various | 120.0 | 19.0 / 8x |
| 50 | 20K | RF | 44.0 | 20.0 | 155.0 | 96.0 | 48.0 | 2.0 | various | 120.0 | 19.0 / 8x |
| 80 | 10K | RF | 81.0 | 20.0 | 185.0 | 126.0 | 93.0 | 2.0 | various | 150.0 | 19.0 / 8x |
| 80 | 16K | RF | 81.0 | 22.0 | 200.0 | 132.0 | 93.0 | 2.0 | various | 160.0 | 23.0 / 8x |
| 80 | 20K | RF | 81.0 | 24.0 | 200.0 | 132.0 | 93.0 | 2.0 | various | 160.0 | 23.0 / 8x |
| 90 | 10K | RF | 81.0 | 20.0 | 195.0 | 136.0 | 93.0 | 2.0 | various | 160.0 | 19.0 / 8x |
| 90 | 16K | RF | 81.0 | 22.0 | 210.0 | 145.0 | 93.0 | 2.0 | various | 170.0 | 23.0 / 8x |
| 90 | 20K | RF | 81.0 | 26.0 | 210.0 | 145.0 | 93.0 | 2.0 | various | 170.0 | 23.0 / 8x |
| 100 | 10K | RF | 81.0 | 20.0 | 210.0 | 151.0 | 93.0 | 2.0 | various | 175.0 | 19.0 / 8x |
| 100 | 16K | RF | 81.0 | 24.0 | 225.0 | 160.0 | 93.0 | 2.0 | various | 185.0 | 23.0 / 8x |
| 100 | 20K | RF | 81.0 | 26.0 | 225.0 | 160.0 | 93.0 | 2.0 | various | 185.0 | 23.0 / 8x |

All dimensions in mm



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