



TANK
EQUIPMENT



FLOWTREND®

SMARTER, FASTER FLUID HANDLING SOLUTIONS



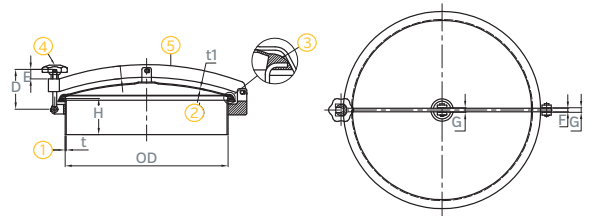
FLOWTREND MANWAYS

Flowtrend Round Cross Arm (FTRC) ▲

| PRESSURE RATING | | .02 Bar (2.90 PSI) | | | | | | | |
|-----------------|-----------------|--------------------|----------|------------|-------------|---------|----------|-----------|---------|
| Size | Nominal OD (IN) | H (Neck Length) | t | t1 | D | E | F | G | Wt (kg) |
| 219 | 9" | 100 [3.93"] | 3 [.12"] | 2 [.08"] | 110 [4.33"] | 26 [1"] | 9 [.35"] | 12 [.47"] | 1.5 |
| 300 | 12" | 100 [3.93"] | 3 [.12"] | 2.5 [.10"] | 110 [4.33"] | 26 [1"] | 9 [.35"] | 12 [.47"] | 6.2 |
| 350 | 14" | 100 [3.93"] | 3 [.12"] | 2.5 [.10"] | 110 [4.33"] | 26 [1"] | 9 [.35"] | 12 [.47"] | 8 |
| 400 | 16" | 100 [3.93"] | 3 [.12"] | 2.5 [.10"] | 110 [4.33"] | 26 [1"] | 9 [.35"] | 12 [.47"] | 10 |
| 400 | 16" | 150 [5.91"] | 3 [.12"] | 2.5 [.10"] | 110 [4.33"] | 26 [1"] | 9 [.35"] | 12 [.47"] | 11 |
| 400 | 16" | 200 [7.87"] | 3 [.12"] | 2.5 [.10"] | 110 [4.33"] | 26 [1"] | 9 [.35"] | 12 [.47"] | 12.5 |
| 430 | 17" | 100 [3.93"] | 3 [.12"] | 2.5 [.10"] | 110 [4.33"] | 26 [1"] | 9 [.35"] | 12 [.47"] | 11.1 |
| 454 | 18" | 100 [3.93"] | 3 [.12"] | 2.5 [.10"] | 110 [4.33"] | 26 [1"] | 9 [.35"] | 12 [.47"] | 11.2 |
| 500 | 20" | 100 [3.93"] | 3 [.12"] | 2.5 [.10"] | 110 [4.33"] | 26 [1"] | 9 [.35"] | 12 [.47"] | 13 |
| 500 | 20" | 150 [5.91"] | 3 [.12"] | 2.5 [.10"] | 110 [4.33"] | 26 [1"] | 9 [.35"] | 12 [.47"] | 15 |
| 500 | 20" | 200 [7.87"] | 3 [.12"] | 2.5 [.10"] | 110 [4.33"] | 26 [1"] | 9 [.35"] | 12 [.47"] | 17 |
| 600 | 24" | 100 [3.93"] | 3 [.12"] | 2.5 [.10"] | 110 [4.33"] | 26 [1"] | 9 [.35"] | 12 [.47"] | 16 |
| 600 | 24" | 150 [5.91"] | 3 [.12"] | 2.5 [.10"] | 110 [4.33"] | 26 [1"] | 9 [.35"] | 12 [.47"] | 18.5 |
| 600 | 24" | 200 [7.87"] | 3 [.12"] | 2.5 [.10"] | 110 [4.33"] | 26 [1"] | 9 [.35"] | 12 [.47"] | 21 |

Note: Available as 3-A Certified Manway

Pressure ratings contained on any manway provided by Flowtrend, Inc. are calculated and provided by a third party foreign entity. The pressure readings are not warranted by Flowtrend, Inc. Customer assumes all risks associated with Customer's use of the product as such use relates to the pressure rating.



| Diagram Key | | |
|-------------|-------|--------------------|
| ① | ② | ③ |
| Frame | Cover | Gasket |
| ④ | ⑤ | ⑥ |
| Handwheel | Arm | Peripheral Closing |

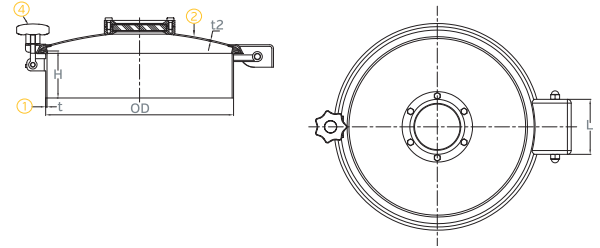
Flowtrend Round Manway (FTRM) ▶

| PRESSURE RATING | | | | | Std = 2 Bar (43.51 PSI) | | | | |
|-----------------|-----------------|-----------------|----------|------------|-------------------------|-------------|-------------|-------------|---------|
| Size | Nominal OD (IN) | H (Neck Length) | t | t1 | D | E | F | G | Wt (kg) |
| 200 | 8" | 115 [4.53"] | 3 [.12"] | 2 [.08"] | 110 [4.33"] | 194 [7.6"] | 214 [8.4"] | 234 [9.2"] | 10 |
| 300 | 12" | 100 [3.93"] | 3 [.12"] | 2.5 [.10"] | 110 [4.33"] | 294 [11.6"] | 314 [12.4"] | 334 [13.1"] | 13 |
| 350 | 14" | 100 [3.93"] | 3 [.12"] | 2.5 [.10"] | 110 [4.33"] | 344 [13.5"] | 364 [14.3"] | 384 [15.1"] | 15.5 |
| 400 | 16" | 100 [3.93"] | 3 [.12"] | 2.5 [.10"] | 110 [4.33"] | 394 [15.5"] | 414 [16.3"] | 434 [17.1"] | 18 |
| 450 | 18" | 100 [3.93"] | 3 [.12"] | 2.5 [.10"] | 110 [4.33"] | 444 [17.5"] | 464 [18.3"] | 484 [19.1"] | 19.5 |
| 500 | 20" | 100 [3.93"] | 3 [.12"] | 2.5 [.10"] | 110 [4.33"] | 494 [19.4"] | 514 [20.2"] | 534 [21.0"] | 21 |
| 600 | 24" | 100 [3.93"] | 3 [.12"] | 2.5 [.10"] | 110 [4.33"] | 594 [23.4"] | 614 [24.2"] | 634 [25.0"] | 28 |



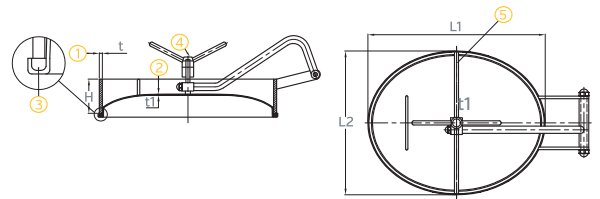
Flowtrend Round Manway with Flat Hinge (FTRH)

| PRESSURE RATING | | | | | 0.2 Bar (2.90 PSI) | | | | |
|-----------------|-----------------|-----------------|----------|------------|--------------------|---------|----------|-----------|---------|
| Size | Nominal OD (IN) | H (Neck Length) | t | t1 | D | E | F | G | Wt (kg) |
| 219 | 9" | 100 [3.93"] | 3 [.12"] | 2 [.08"] | 110 [4.33"] | 26 [1"] | 9 [.35"] | 12 [.47"] | 1.5 |
| 300 | 12" | 100 [3.93"] | 3 [.12"] | 2.5 [.10"] | 110 [4.33"] | 26 [1"] | 9 [.35"] | 12 [.47"] | 6.2 |
| 350 | 14" | 100 [3.93"] | 3 [.12"] | 2.5 [.10"] | 110 [4.33"] | 26 [1"] | 9 [.35"] | 12 [.47"] | 8 |
| 400 | 16" | 100 [3.93"] | 3 [.12"] | 2.5 [.10"] | 110 [4.33"] | 26 [1"] | 9 [.35"] | 12 [.47"] | 10 |
| 400 | 16" | 150 [5.91"] | 3 [.12"] | 2.5 [.10"] | 110 [4.33"] | 26 [1"] | 9 [.35"] | 12 [.47"] | 11 |
| 400 | 16" | 200 [7.87"] | 3 [.12"] | 2.5 [.10"] | 110 [4.33"] | 26 [1"] | 9 [.35"] | 12 [.47"] | 12.5 |
| 450 | 18" | 100 [3.93"] | 3 [.12"] | 2.5 [.10"] | 110 [4.33"] | 26 [1"] | 9 [.35"] | 12 [.47"] | 11.2 |
| 500 | 20" | 100 [3.93"] | 3 [.12"] | 2.5 [.10"] | 110 [4.33"] | 26 [1"] | 9 [.35"] | 12 [.47"] | 13 |
| 500 | 20" | 150 [5.91"] | 3 [.12"] | 2.5 [.10"] | 110 [4.33"] | 26 [1"] | 9 [.35"] | 12 [.47"] | 15 |
| 500 | 20" | 200 [7.87"] | 3 [.12"] | 2.5 [.10"] | 110 [4.33"] | 26 [1"] | 9 [.35"] | 12 [.47"] | 17 |
| 600 | 24" | 100 [3.93"] | 3 [.12"] | 2.5 [.10"] | 110 [4.33"] | 26 [1"] | 9 [.35"] | 12 [.47"] | 16 |
| 600 | 24" | 150 [5.91"] | 3 [.12"] | 2.5 [.10"] | 110 [4.33"] | 26 [1"] | 9 [.35"] | 12 [.47"] | 18.5 |
| 600 | 24" | 200 [7.87"] | 3 [.12"] | 2.5 [.10"] | 110 [4.33"] | 26 [1"] | 9 [.35"] | 12 [.47"] | 21 |



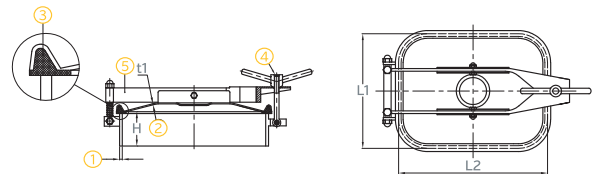
Flowtrend Oval Manway with Outward Collar (FTOC)

| PRESSURE RATING | | | 3 Bar (43.51 PSI) | | | |
|-----------------|--------------------|--------------------|-------------------|----------|----------|---------|
| Size | Nominal OD-L1 (in) | Nominal OD-L2 (in) | H | t | t1 | Wt (kg) |
| 435x335 | 17" | 13" | 75 [3.0"] | 9 [.04"] | 3 [.12"] | 8 |
| 510x410 | 20" | 16" | 100 [3.9"] | 12 [.5"] | 3 [.12"] | 1.5 |
| 535x435 | 21" | 17" | 160 [6.3"] | 12 [.5"] | 3 [.12"] | 6.2 |



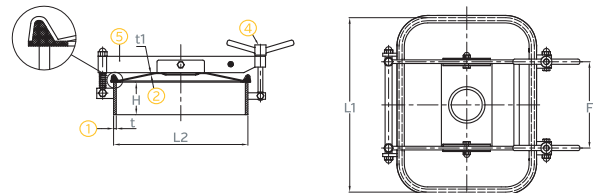
Flowtrend Rectangular Manway, Side Horizontal (FTSH)

| PRESSURE RATING | | | 0.5 Bar (7.25 PSI) | | |
|-----------------|--------------------|--------------------|--------------------|----------|-------------|
| Size | Nominal OD-L1 (in) | Nominal OD-L2 (in) | t | t1 | H |
| 435X335 | 13" | 17" | 8 [.32"] | 3 [.12"] | 65 [2.56"] |
| 535X415 | 21" | 16" | 8 [.32"] | 3 [.12"] | 100 [3.93"] |



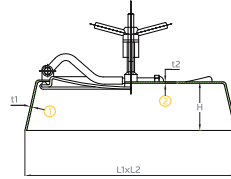
Flowtrend Rectangular Manway, Side Vertical (FTSV)

| PRESSURE RATING | | | 0.5 Bar (7.25 PSI) | | |
|-----------------|--------------------|--------------------|--------------------|----------|-------------|
| Size | Nominal OD-L1 (in) | Nominal OD-L2 (in) | t | t1 | H |
| 435X335 | 17" | 13" | 8 [.32"] | 3 [.12"] | 65 [2.56"] |
| 535X415 | 21" | 16" | 8 [.32"] | 3 [.12"] | 100 [3.93"] |



Flowtrend Oval Manway with Angle Collar (FTOA) ▶

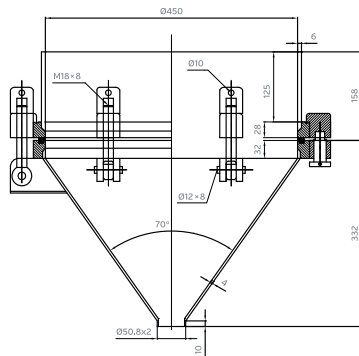
| PRESSURE RATING | | | 3 Bar (43.51 PSI) | | | |
|-----------------|--------------------|--------------------|-------------------|----------|----------|---------|
| Size | Nominal OD-L1 (In) | Nominal OD-L2 (In) | H | t | t1 | Wt (kg) |
| 555x455 | 22" | 18" | 75 [3.0"] | 5 [.20"] | 4 [.20"] | 6.5 |
| 565x465 | 22.2" | 18.3" | 100 [3.9"] | 5 [.20"] | 4 [.20"] | 7 |
| 580x480 | 23" | 19" | 133 [5.2"] | 5 [.20"] | 4 [.20"] | 7.5 |



Flowtrend Cone Bottom Manway (FTCB)* ◀

| PRESSURE RATING | | Std = 6 Bar (87 PSI) | | |
|-------------------------|--------------------------------|----------------------|----------------|------------|
| Size - Nominal ID/Angle | Max Allowable Working Pressure | Height | Cone Thickness | Wt |
| 450mm/70° | 6 Bar/87psi | 490mm | 4mm | 30Kg/66lbs |

*Square or Round Gasket available



Flowtrend will also manufacture custom manways and components according to customer specifications.

FLOWTREND®

11512 Space Center Blvd, Houston, Texas 77059

P [281] 990-8582 F [281] 990-8644

FLOWTREND.COM

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