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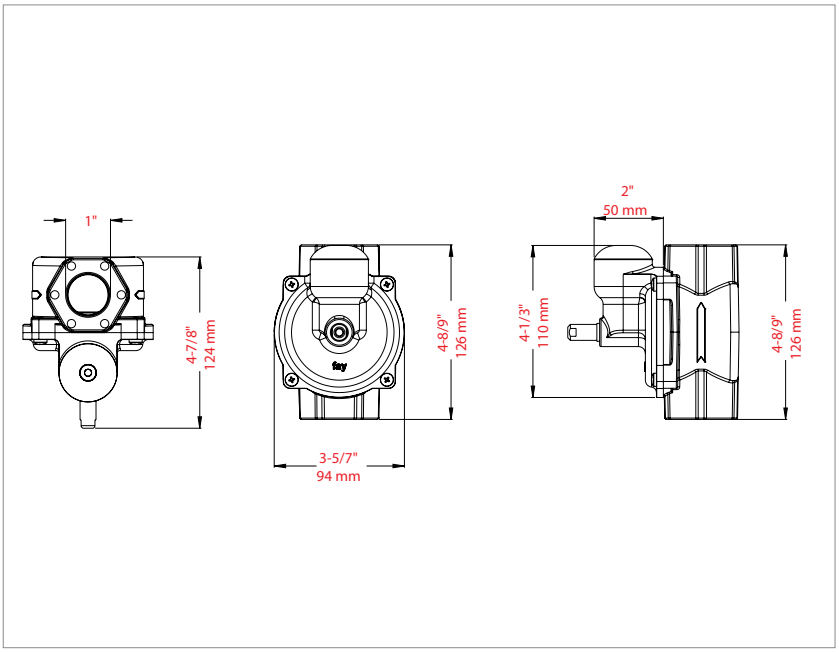
# FM 25 MECHANICAL EARTQUAKE VALVE
# 1" Threaded Vertical



| MODEL | PIPE SIZE | DN | POSITION | TEMP. RANCE | MAX. PRESSURE | WEIGHT |
|---|---|---|---|---|---|---|
| FM 25 | 1" | 25 | Vertical | -23°C(-10°F ) to +66°C (+150°F) | 0,5 bar / 7 PSI | 2,266 lb / 1,030 kg |

| Material | Min. Turning Effort | Min. Bending Moment | CV | Eqv Lenght of pipe (ft) |
|---|---|---|---|---|
| Aluminium Alloy / Brass / Stainless Steel | 750 Inc lbf / 84,7 Nm | 32,0 Lb / 14,5 kg | 23 | 1.1 |

## FLOW CAPACITY TABLE IWC/PSIG - Capacity S.C.F.H

| Pressure Drop | | Inlet Pressure (iwc) | | Inlet Pressure (psi) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| psi | iwc | 8" iwc | 14" iwc | 3 | 5 | 7 | 10 | 20 | 60 |
| 0.0036 | 0.1 | 398 | 401 | 433 | 457 | 479 | 511 | 606 | 889 |
| 0.0072 | 0.2 | 563 | 567 | 612 | 646 | 678 | 723 | 857 | 1258 |
| 0.0108 | 0.3 | 690 | 695 | 750 | 791 | 830 | 886 | 1050 | 1540 |
| 0.0144 | 0.4 | 796 | 802 | 865 | 913 | 958 | 1022 | 1212 | 1779 |
| 0.018 | 0.5 | 890 | 897 | 968 | 1021 | 1071 | 1143 | 1355 | 1988 |
| 0.0216 | 0.6 | 975 | 982 | 1060 | 1118 | 1174 | 1252 | 1484 | 2178 |
| 0.0252 | 0.7 | 1053 | 1061 | 1145 | 1208 | 1267 | 1352 | 1603 | 2353 |
| 0.0288 | 0.8 | 1126 | 1134 | 1223 | 1291 | 1355 | 1446 | 1714 | 2515 |
| 0.0324 | 0.9 | 1194 | 1202 | 1298 | 1369 | 1437 | 1533 | 1818 | 2667 |
| 0.036 | 1.0 | 1258 | 1267 | 1368 | 1443 | 1515 | 1616 | 1916 | 2812 |
| 0.072 | 2.0 | 1777 | 1790 | 1932 | 2039 | 2140 | 2284 | 2708 | 3975 |
| 0.108 | 3.0 | 2174 | 2190 | 2364 | 2495 | 2619 | 2795 | 3315 | 4868 |
| 0.144 | 4.0 | 2507 | 2526 | 2727 | 2878 | 3021 | 3225 | 3826 | 5619 |
| 0.18 | 5.0 | 2800 | 2820 | 3046 | 3215 | 3375 | 3603 | 4275 | 6281 |

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# 1" Threaded Vertical

## FLOW CAPACITY TABLE IWC/PSIG - Capacity $m^3/h$

| Pressure Drop | | Inlet Pressure (iwc) | | Inlet Pressure (psi) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| psi | iwc | 8" iwc | 14" iwc | 3 | 5 | 7 | 10 | 20 | 60 |
| 0.0036 | 0.1 | 11,14 | 11,23 | 12,12 | 12,80 | 13,41 | 14,31 | 16,97 | 24,89 |
| 0.0072 | 0.2 | 15,76 | 15,88 | 17,14 | 18,09 | 18,98 | 20,24 | 24,00 | 35,22 |
| 0.0108 | 0.3 | 19,32 | 19,46 | 21,00 | 22,15 | 23,24 | 24,81 | 29,40 | 43,12 |
| 0.0144 | 0.4 | 22,29 | 22,46 | 24,22 | 25,56 | 26,82 | 28,62 | 33,94 | 49,81 |
| 0.018 | 0.5 | 24,92 | 25,12 | 27,10 | 28,59 | 29,99 | 32,00 | 37,94 | 55,66 |
| 0.0216 | 0.6 | 27,30 | 27,50 | 29,68 | 31,30 | 32,87 | 35,06 | 41,55 | 60,98 |
| 0.0252 | 0.7 | 29,48 | 29,71 | 32,06 | 33,82 | 35,48 | 37,86 | 44,88 | 65,88 |
| 0.0288 | 0.8 | 31,53 | 31,75 | 34,24 | 36,15 | 37,94 | 40,49 | 47,99 | 70,42 |
| 0.0324 | 0.9 | 33,43 | 33,66 | 36,34 | 38,33 | 40,24 | 42,92 | 50,90 | 74,68 |
| 0.036 | 1.0 | 35,22 | 35,48 | 38,30 | 40,40 | 42,42 | 45,25 | 53,65 | 78,74 |
| 0.072 | 2.0 | 49,76 | 50,12 | 54,10 | 57,09 | 59,92 | 63,95 | 75,82 | 111,30 |
| 0.108 | 3.0 | 60,87 | 61,32 | 66,19 | 69,86 | 73,33 | 78,26 | 92,82 | 136,30 |
| 0.144 | 4.0 | 70,20 | 70,73 | 76,36 | 80,58 | 84,59 | 90,30 | 107,13 | 157,33 |
| 0.18 | 5.0 | 78,40 | 78,96 | 85,29 | 90,02 | 94,50 | 100,88 | 119,70 | 175,87 |

## FLOW CAPACITY TABLE IWC/PSIG - Capacity kW

| Pressure Drop | | Inlet Pressure (iwc) | | Inlet Pressure (psi) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| psi | iwc | 8" iwc | 14" iwc | 3 | 5 | 7 | 10 | 20 | 60 |
| 0.0036 | 0.1 | 117,57 | 118,46 | 127,91 | 135,00 | 141,50 | 150,95 | 179,01 | 262,61 |
| 0.0072 | 0.2 | 166,31 | 167,49 | 180,78 | 190,83 | 200,28 | 213,57 | 253,16 | 371,61 |
| 0.0108 | 0.3 | 203,83 | 205,30 | 221,55 | 233,66 | 245,18 | 261,72 | 310,17 | 454,92 |
| 0.0144 | 0.4 | 235,14 | 236,91 | 255,52 | 269,70 | 282,99 | 301,90 | 358,02 | 525,52 |
| 0.018 | 0.5 | 262,91 | 264,97 | 285,95 | 301,60 | 316,37 | 337,64 | 400,27 | 587,26 |
| 0.0216 | 0.6 | 288,02 | 290,08 | 313,12 | 330,26 | 346,80 | 369,84 | 438,37 | 643,38 |
| 0.0252 | 0.7 | 311,06 | 313,42 | 338,23 | 356,84 | 374,27 | 399,38 | 473,53 | 695,08 |
| 0.0288 | 0.8 | 332,62 | 334,98 | 361,27 | 381,36 | 400,27 | 427,15 | 506,32 | 742,93 |
| 0.0324 | 0.9 | 352,71 | 355,07 | 383,43 | 404,40 | 424,49 | 452,85 | 537,04 | 787,83 |
| 0.036 | 1.0 | 371,61 | 374,27 | 404,11 | 426,26 | 447,53 | 477,37 | 565,99 | 830,66 |
| 0.072 | 2.0 | 524,93 | 528,77 | 570,71 | 602,32 | 632,16 | 674,69 | 799,94 | 1174,22 |
| 0.108 | 3.0 | 642,20 | 646,93 | 698,33 | 737,02 | 773,65 | 825,64 | 979,25 | 1438,01 |
| 0.144 | 4.0 | 740,57 | 746,18 | 805,56 | 850,16 | 892,40 | 952,67 | 1130,20 | 1659,85 |
| 0.18 | 5.0 | 827,12 | 833,03 | 899,79 | 949,71 | 996,98 | 1064,33 | 1262,84 | 1855,41 |

| | |
|---|---|
| CERTIFICATES | TUV Austria CE Attestation of Conformity Certificate (ASCE 25-16 and TS 12884) |
| APPLICATION | Gasses : Natural Gas, LPG, methane, propane, air, etc… non corrosive gaseous fluids. |
| INFORMATION | Experiments were carried out with air. Calculations based on gas with a density of 0.64 and a calorific value of 37 MJ/m3. The measured flow value is arranged according to 15 °C and 101.3 kPa pressure |