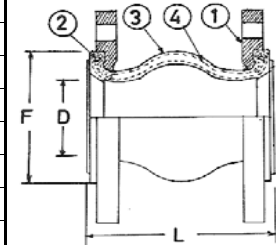


VIBRATION MANAGEMENT CORPORATION

5930 THOMAS ROAD , HOUSTON , TEXAS 77041 , U.S.A

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| MODEL | SIZE (inches) | LENGTH (L) (inches) | (D) (inches) | (F) (inches) | AXIAL COMPRESSION (inches) | AXIAL ELONGATION (inches) | TRANSVERSE DEFLECTION (inches) | ANGULAR DEFLECTION (deg) | OPERATING PRESSURE (psi) | TEMP. RANGE (°F) | AXIAL STIFFNESS COMPR / ELONG (lb/in) | TRANSVERSE STIFFNESS (lb/in) | ANGULAR STIFFNESS (ft-lbs/deg) |
|-----------|------------------|---------------------------|-----------------|-----------------|----------------------------------|---------------------------------|--------------------------------------|--------------------------------|--------------------------------|------------------------|--|------------------------------------|--------------------------------------|
| FCS-12-H | 1 1/4 | 6.00 | 1.58 | 2.72 | 0.31 | 0.15 | 0.31 | 15° | 362 | 14 - 158 | 165 / 215 | 246 | 0.06 |
| FCS-15-H | 1 1/2 | 6.18 | 1.58 | 2.72 | 0.31 | 0.15 | 0.31 | 15° | 362 | 14 - 158 | 199 / 258 | 295 | 0.08 |
| FCS-20-H | 2 | 6.10 | 2.05 | 3.39 | 0.31 | 0.19 | 0.31 | 15° | 362 | 14 - 158 | 238 / 311 | 394 | 0.17 |
| FCS-25-H | 2 1/2 | 6.14 | 2.68 | 4.18 | 0.47 | 0.23 | 0.39 | 15° | 362 | 14 - 158 | 298 / 388 | 428 | 0.28 |
| FCS-30-H | 3 | 6.16 | 3.00 | 4.57 | 0.47 | 0.23 | 0.39 | 15° | 362 | 14 - 158 | 357 / 466 | 464 | 0.45 |
| FCS-40-H | 4 | 6.16 | 4.06 | 5.91 | 0.70 | 0.39 | 0.47 | 15° | 362 | 14 - 158 | 477 / 621 | 536 | 1.07 |
| FCS-50-H | 5 | 6.18 | 5.04 | 7.09 | 0.70 | 0.39 | 0.47 | 15° | 362 | 14 - 158 | 595 / 774 | 614 | 2.25 |
| FCS-60-H | 6 | 6.18 | 5.99 | 8.23 | 0.70 | 0.39 | 0.47 | 15° | 362 | 14 - 158 | 715 / 929 | 694 | 3.75 |
| FCS-80-H | 8 | 6.18 | 7.64 | 10.24 | 0.98 | 0.55 | 0.86 | 15° | 362 | 14 - 158 | 794 / 1034 | 847 | 7.5 |
| FCS-100-H | 10 | 8.19 | 9.85 | 12.60 | 0.98 | 0.55 | 0.86 | 15° | 362 | 14 - 158 | 993 / 1292 | 910 | 13.5 |
| FCS-120-H | 12 | 8.15 | 11.82 | 14.45 | 0.98 | 0.55 | 0.86 | 15° | 362 | 14 - 158 | 1191 / 1550 | 1067 | 24 |
| FCS-140-H | 14 | 8.15 | 12.60 | 16.07 | 0.98 | 0.62 | 0.86 | 15° | 232 | 14 - 158 | 1043 / 1356 | 1256 | 10.5 |
| FCS-160-H | 16 | 8.01 | 14.65 | 18.59 | 0.98 | 0.62 | 0.86 | 15° | 232 | 14 - 158 | 1191 / 1550 | 1447 | 42.75 |
| FCS-180-H | 18 | 8.07 | 16.34 | 20.56 | 0.98 | 0.62 | 0.86 | 15° | 232 | 14 - 158 | 1340 / 1745 | 1598 | 60 |
| FCS-200-H | 20 | 8.19 | 17.88 | 22.45 | 0.98 | 0.62 | 0.86 | 15° | 232 | 14 - 158 | 1490 / 1935 | 1787 | 85.5 |
| FCS-240-H | 24 | 10.04 | 22.45 | 27.40 | 0.98 | 0.62 | 0.86 | 15° | 232 | 14 - 158 | 1787 / 2323 | 1919 | 153.75 |
| FCS-280-H | 28 | 10.51 | 26.77 | 31.49 | 0.98 | 0.62 | 0.86 | 15° | 232 | 14 - 158 | CF | CF | CF |



N.T.S.

* Ratings indicated above are for constant pressures at 100°F. For pulsating pressures us 1/2 of rating, for surge pressures us 1/6 of rating. For higher temperatures applications contact factory.

NOTES

1. Applicable fluids for standard construction: Water (cold/hot/sea), weak acids, alkalies, compressed air etc.
2. Floating flange drilling standard as per customers requirement. (ANSI, BS, DIN, JIS)
3. Expansion joints must be installed per FSA technical handbook guidelines.
4. Control units are always recommended as a safety precaution (even when system is properly anchored and guided) and must be installed to prevent voiding warranty.

FEATURES

- * Withstands high pressure
- * Reduces noise and vibration transmission
- * Eliminates stress due to thermal expansion and piping misalignment

MATERIALS (see figure)

| No. | Description |
|-----|---|
| 1 | Flange - galvanised steel (drilling available as per ANSI / BS / DIN / JIS) |
| 2 | Reinforcing ring - carbon steel wire strand |
| 3 | Tube + Cover - EDPM |
| 4 | Reinforcing fabric - polyester |

- * Precision molded of synthetic rubber
- * Synthetic fabric re-inforcement
- * Corrosion resistant materials

| | | | |
|--------------------------|------------------|----------------------------------|--|
| <u>Notes / Remarks :</u> | Project : | Title : | FCS-H |
| | Client : | High Pressure | |
| | Consultant : | Rubber Expansion Joints | |
| | Representative : | Single Bellow, Flange Connection | |
| | | | Drawing no. S-2500.12 Rev. 7 |