

Aramid fibre braid (AM) grade hoses



Hyperline FX

Features and benefits

- Patented liner provides unequalled flexibility and kink resistance
- Excellent chemical resistance
- Smooth bore for fast flow and easy clean
- Resistant to diffusion of liquids and gases



Aramid fibre braid (AM) grade hoses performance

| Nominal hose size | | *Actual hose bore size | | Hose grade | Outside diameter of tube or braid | | Minimum bend radius | | Maximum working pressure (MWP) | | Weight per unit length | | Hose part number |
|-------------------|------|------------------------|------|------------|-----------------------------------|------|---------------------|-----|--------------------------------|-------|------------------------|--------|--------------------|
| in | mm | in | mm | | in | mm | in | mm | bar | psi | kg/mtr | lbs/ft | |
| 1/4 | 6.0 | 0.270 | 6.8 | TO | 0.354 | 9.0 | 1 1/2 | 38 | 4 | 60 | 0.041 | 0.027 | 92-100-04 |
| | | | | SS | 0.378 | 9.6 | 1/2 | 19 | 88 | 1,280 | 0.092 | 0.062 | 92-100-04-01-02 |
| | | | | AM | 0.378 | 9.6 | 1 1/2 | 38 | 62 | 900 | 0.056 | 0.038 | 92-100-04-01-55-01 |
| 3/8 | 8.0 | 0.312 | 7.9 | TO | 0.394 | 10.0 | 1 1/2 | 38 | 4 | 60 | 0.056 | 0.037 | 92-100-05 |
| | | | | SS | 0.420 | 10.6 | 1/2 | 19 | 84 | 1,220 | 0.126 | 0.084 | 92-100-05-01-02 |
| | | | | AM | 0.445 | 11.3 | 1 1/2 | 38 | 59 | 850 | 0.075 | 0.050 | 92-100-05-01-55-01 |
| 1/2 | 10.0 | 0.394 | 10.0 | TO | 0.492 | 12.5 | 2 | 50 | 4 | 60 | 0.070 | 0.047 | 92-100-06 |
| | | | | SS | 0.534 | 13.5 | 1 | 25 | 80 | 1,160 | 0.160 | 0.107 | 92-100-06-01-02 |
| | | | | AM | 0.534 | 13.5 | 2 | 50 | 56 | 810 | 0.100 | 0.067 | 92-100-06-01-55-01 |
| 5/8 | 15.0 | 0.536 | 13.6 | TO | 0.640 | 16.2 | 3 | 76 | 4 | 58 | 0.110 | 0.074 | 92-100-08 |
| | | | | SS | 0.690 | 17.5 | 1 1/2 | 38 | 60 | 870 | 0.225 | 0.151 | 92-100-08-01-02 |
| | | | | AM | 0.690 | 17.5 | 3 | 76 | 42 | 600 | 0.140 | 0.094 | 92-100-08-01-55-01 |
| 3/4 | 16.0 | 0.658 | 16.7 | TO | 0.787 | 20.0 | 4 | 100 | 3 | 44 | 0.161 | 0.108 | 92-100-10 |
| | | | | SS | 0.831 | 21.1 | 2 | 50 | 50 | 730 | 0.336 | 0.226 | 92-100-10-01-02 |
| | | | | AM | 0.831 | 21.1 | 4 | 100 | 35 | 510 | 0.204 | 0.137 | 92-100-10-01-55-01 |
| 1 | 20.0 | 0.780 | 19.8 | TO | 0.913 | 23.2 | 5 | 126 | 3 | 44 | 0.179 | 0.120 | 92-100-12 |
| | | | | SS | 0.953 | 24.2 | 2 1/2 | 63 | 42 | 610 | 0.383 | 0.257 | 92-100-12-01-02 |
| | | | | AM | 0.953 | 24.2 | 5 | 126 | 29 | 430 | 0.236 | 0.158 | 92-100-12-01-55-01 |
| 1 | 25.0 | 1.023 | 26.0 | TO | 1.193 | 30.3 | 6 | 150 | 2 | 29 | 0.268 | 0.180 | 92-100-16 |
| | | | | SS | 1.250 | 31.7 | 3 | 75 | 40 | 580 | 0.540 | 0.362 | 92-100-16-01-02 |
| | | | | AM | 1.250 | 31.7 | 6 | 150 | 28 | 400 | 0.354 | 0.237 | 92-100-16-01-55-01 |

*Hydraulic Bore Size - The actual bore sizes of Hyperline FX hose are slightly larger than the nominal size, to allow the insertion and assembly of standard Hydraulic Fittings, using ferrules supplied by Aflex Hose.

Technical specifications

| | Aramid fibre braid (AM) grade hoses |
|-----------------------------|--|
| Nominal bore size | 6 - 25 mm |
| Nominal bore size | 0.25 - 1 in |
| Actual bore size | 6.8 - 26 mm |
| Actual bore size | 0.27 - 1.023 in |
| Outside diameter | 9.6 - 31.7 mm |
| Outside diameter | 0.378 - 1.25 in |
| Max. operating pressure | 62 bar |
| Max. operating pressure | 900 psi |
| Burst pressure | 84 - 186 bar |
| Burst pressure | 1200 - 2,700 psi |
| Certification | 3.1 Traceability, EN16643:2016, FDA (materials), SAE J1737, TS 16949:2016 |
| Operating temperature range | -73 to 260 °C |
| Operating temperature range | -100 to 500 °F |
| Bend radius | 38 - 150 mm |
| Bend radius | 1.5 - 6 in |
| Braid | Aramid fibre |
| Cover | None |
| End fitting | BSP and NPT threaded fittings, CAM and groove fittings, DIN 11851 fittings, ENCAP end fittings, JIC fittings, PTFE dip pipe fittings, Sanitary triclamp fittings, Swivel flange fittings |

Materials of construction

| | Aramid fibre braid (AM) grade hoses |
|------------|-------------------------------------|
| Liner tube | Antistatic PTFE, Natural PTFE |

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