



Flowtechnology U.K. Hydraulic Hose & Fittings Approvals & Certification

All products sold under the Jaymac brand in the attached document have been designed, tested and manufactured to the appropriate international standard from the following list:

EN853, DIN853, DIN20022, SAE100R1, 2, 6, 7, 8, 13, 15, 17, EN857-1SC & 2SC, EN856-4SP, EN856-4SH, MSHAR2AT

Full product compatibility tests have been undertaken and the manufacturers can certify that the hose and fittings are a matched system, and can certify the accuracy of the information enclosed in this document.

Data covers

- Impulse
- Pressure
- Crimping
- Skive (where appropriate)
- Go and No Go

Signed the Manufacturer of Hose:

Position: General Manager
Mr Deng Ji Sen



Official Stamp

Signed the Manufacturer of Fittings:

Position: General Manager
Mr Chong er Wang



Official Stamp

Hydraulic Hose, EN853, DIN20022, SAE100R1AT

| Part Number | Size | | | ID | | Wire Dimension | | OD 1SN | Working Pressure | | Pulse Pressure | | Burst Pressure | | Bend Radius | | Weight | Impulse Test Rate | Crimping Dimensions | Size in mm | Crimping Dimensions | Size in mm | Tail ID Top Tolerance | Tail ID Bottom Tolerance | Crimped No Go | Crimped Go |
|-------------|------|-------|-----|------|------|----------------|------|--------|------------------|------|----------------|------|----------------|-------|-------------|-----|--------|-------------------|------------------------|------------|---------------------|------------|-----------------------|--------------------------|---------------|------------|
| | mm | Inch | SAE | min | max | min | max | max | Mpa | psi | Mpa | psi | Mpa | psi | Inch | mm | Kg/mtr | Cycles | FT1 - FT2 Type Ferrule | Ferrule | FT3 Type Ferrule | Ferrule | mm | mm | mm | mm |
| 100R1AT-04 | 6.3 | 1/4 | -4 | 6.2 | 7.0 | 10.6 | 11.6 | 14.1 | 22.5 | 3260 | 45 | 6525 | 90 | 13050 | 3.94 | 100 | 0.25 | 150000 | FT1-12-04CF | 17.5 | FT3-12-04CF | 18.3 | 3.86 | 3.67 | 3.67 | 3.45 |
| 100R1AT-05 | 8 | 5/16 | -5 | 7.7 | 8.5 | 12.1 | 13.3 | 15.7 | 21.5 | 3120 | 43 | 6235 | 85 | 12325 | 4.53 | 115 | 0.31 | 150000 | FT1-12-05CF | 18.5 | FT3-12-05CF | 20.5 | 5.29 | 5.11 | 5.11 | 4.91 |
| 100R1AT-06 | 10 | 3/8 | -6 | 9.3 | 10.1 | 14.5 | 15.7 | 18.1 | 18 | 2610 | 36 | 5220 | 72 | 10440 | 5.12 | 130 | 0.36 | 150000 | FT1-12-06CF | 21.15 | FT3-12-06CF | 21.6 | 6.78 | 6.42 | 6.42 | 6.13 |
| 100R1AT-08 | 12.5 | 1/2 | -8 | 12.3 | 13.5 | 17.5 | 19.1 | 21.4 | 16 | 2320 | 32 | 4640 | 64 | 9280 | 7.09 | 180 | 0.45 | 150000 | FT1-12-08CF | 23.3 | FT3-12-08CF | 24 | 9.21 | 8.86 | 8.86 | 8.40 |
| 100R1AT-10 | 16 | 5/8 | -10 | 15.5 | 16.7 | 20.6 | 22.2 | 24.5 | 13 | 1885 | 26 | 3770 | 52 | 7540 | 7.87 | 200 | 0.52 | 150000 | FT1-12-10CF | 26.8 | FT3-12-10CF | 28.7 | 12.09 | 11.59 | 11.59 | 10.99 |
| 100R1AT-12 | 19 | 3/4 | -12 | 18.6 | 19.8 | 24.6 | 26.2 | 28.5 | 10.5 | 1520 | 21 | 3045 | 42 | 6090 | 9.45 | 240 | 0.65 | 150000 | FT1-12-12CF | 30.5 | FT3-12-12CF | 31.5 | 14.46 | 13.91 | 13.91 | 13.31 |
| 100R1AT-16 | 25 | 1 | -16 | 25.0 | 26.4 | 32.5 | 34.1 | 36.6 | 8.8 | 1280 | 17.5 | 2540 | 35 | 5075 | 11.81 | 300 | 0.91 | 150000 | FT1-12-16CF | 39 | FT3-12-16CF | 41 | 18.89 | 18.29 | 18.29 | 17.68 |
| 100R1AT-20 | 31.5 | 1.1/4 | -20 | 31.4 | 33.0 | 39.3 | 41.7 | 44.8 | 6.3 | 910 | 15 | 2175 | 25 | 3625 | 16.54 | 420 | 1.30 | 150000 | FT1-12-20CF | 48.4 | FT3-12-20CF | 48.5 | 25.40 | 24.69 | 24.69 | 23.80 |
| 100R1AT-24 | 38 | 1.1/2 | -24 | 37.7 | 39.3 | 45.6 | 48.0 | 52.1 | 5 | 725 | 10 | 1450 | 20 | 2900 | 19.69 | 500 | 1.70 | 150000 | FT1-12-24CF | 56.8 | FT3-12-24CF | 58.5 | 31.40 | 30.60 | 30.60 | 29.80 |
| 100R1AT-32 | 51 | 2 | -32 | 50.4 | 52.0 | 58.7 | 61.7 | 65.5 | 4 | 580 | 8 | 1160 | 16 | 2320 | 24.80 | 630 | 2.00 | 150000 | FT1-12-32CF | 69.3 | FT3-12-32CF | 70 | 41.40 | 40.60 | 40.60 | 30.80 |

Hydraulic Hose, EN853, DIN20022, SAE100R2AT

| Part Number | Size | | | ID | | Wire Dimension | | OD 2SN | Working Pressure | | Pulse Pressure | | Burst Pressure | | Bend Radius | | Weight | Impulse Test Rate | Crimping Dimensions | Size in mm | Crimping Dimensions | Size in mm | Tail ID Top Tolerance | Tail ID Bottom Tolerance | Crimped No Go | Crimped Go |
|-------------|------|-------|-----|------|------|----------------|------|--------|------------------|------|----------------|-------|----------------|-------|-------------|-----|--------|-------------------|------------------------|------------|---------------------|------------|-----------------------|--------------------------|---------------|------------|
| | mm | Inch | SAE | min | max | min | max | max | Mpa | psi | Mpa | psi | Mpa | psi | Inch | mm | Kg/mtr | Cycles | FT1 - FT2 Type Ferrule | Ferrule | FT3 Type Ferrule | Ferrule | mm | mm | mm | mm |
| 100R2AT-04 | 6.3 | 1/4 | -4 | 6.2 | 7.0 | 12.1 | 13.3 | 15.7 | 40 | 5800 | 80 | 11600 | 160 | 23200 | 3.94 | 100 | 0.36 | 200000 | FT2-12-04CF | 18.5 | FT3-12-04CF | 19.1 | 3.86 | 3.67 | 3.67 | 3.45 |
| 100R2AT-05 | 8 | 5/16 | -5 | 7.7 | 8.5 | 13.7 | 14.9 | 17.3 | 35 | 5075 | 70 | 10150 | 140 | 20300 | 4.53 | 115 | 0.45 | 200000 | FT2-12-05CF | 19.5 | FT3-12-05CF | 20.5 | 5.29 | 5.11 | 5.11 | 4.91 |
| 100R2AT-06 | 10 | 3/8 | -6 | 9.3 | 10.1 | 16.1 | 17.3 | 19.7 | 33 | 4785 | 66 | 9570 | 132 | 19140 | 5.12 | 130 | 0.54 | 200000 | FT2-12-06CF | 22.25 | FT3-12-06CF | 22 | 6.78 | 6.42 | 6.42 | 6.13 |
| 100R2AT-08 | 12.5 | 1/2 | -8 | 12.3 | 13.5 | 19.0 | 20.6 | 23.0 | 27.5 | 3990 | 55 | 7975 | 110 | 15950 | 7.09 | 180 | 0.68 | 200000 | FT2-12-08CF | 24.4 | FT3-12-08CF | 24.5 | 9.21 | 8.86 | 8.86 | 8.40 |
| 100R2AT-10 | 16 | 5/8 | -10 | 15.5 | 16.7 | 22.2 | 23.8 | 26.2 | 25 | 3625 | 50 | 7250 | 100 | 14500 | 7.87 | 200 | 0.80 | 200000 | FT2-12-10CF | 28 | FT3-12-10CF | 28.7 | 12.09 | 11.59 | 11.59 | 10.99 |
| 100R2AT-12 | 19 | 3/4 | -12 | 18.6 | 19.8 | 26.2 | 27.8 | 30.1 | 21.5 | 3120 | 43 | 6235 | 85 | 12325 | 9.45 | 240 | 0.94 | 200000 | FT2-12-12CF | 32 | FT3-12-12CF | 32 | 14.46 | 13.91 | 13.91 | 13.31 |
| 100R2AT-16 | 25 | 1 | -16 | 25.0 | 26.4 | 34.1 | 35.7 | 38.9 | 16.5 | 2390 | 32.5 | 4710 | 65 | 9425 | 11.81 | 300 | 1.35 | 200000 | FT2-12-16CF | 40.2 | FT3-12-16CF | 41 | 18.89 | 18.29 | 18.29 | 17.68 |
| 100R2AT-20 | 31.5 | 1.1/4 | -20 | 31.4 | 33.0 | 43.3 | 45.7 | 49.5 | 12.5 | 1810 | 25 | 3625 | 50 | 7250 | 16.54 | 420 | 2.15 | 200000 | FT2-12-20CF | 50 | FT3-12-20CF | 51.5 | 25.40 | 24.69 | 24.69 | 23.80 |
| 100R2AT-24 | 38 | 1.1/2 | -24 | 37.7 | 39.3 | 49.6 | 52.0 | 55.9 | 9 | 1305 | 18 | 2310 | 36 | 5220 | 19.69 | 500 | 2.65 | 200000 | FT2-12-24CF | 59.5 | FT3-12-24CF | 59.7 | 31.40 | 30.60 | 30.60 | 29.80 |
| 100R2AT-32 | 51 | 2 | -32 | 50.4 | 52.0 | 62.3 | 64.7 | 68.6 | 8 | 1160 | 16 | 2320 | 32 | 4640 | 24.80 | 630 | 3.42 | 200000 | FT2-12-32CF | 72.3 | FT3-12-32CF | 73.4 | 41.40 | 40.60 | 40.60 | 30.80 |

Pressure Wash Hose, Blue & Black, 1 Wire

| Part Number | Size | | | ID | | Wire Dimension | | OD | Working Pressure | | Pulse Pressure | | Burst Pressure | | Bend Radius | | Weight | Impulse Test Rate | Crimping Dimensions | Size in mm | Crimping Dimensions | Size in mm | Tail ID Top Tolerance | Tail ID Bottom Tolerance | Crimped No Go | Crimped Go |
|-----------------|------|------|-----|-----|------|----------------|------|------|------------------|------|----------------|------|----------------|-------|-------------|-----|--------|-------------------|-----------------------|------------------|---------------------|------------|-----------------------|--------------------------|---------------|------------|
| | mm | inch | SAE | min | max | min | max | max | Mpa | psi | Mpa | psi | Mpa | psi | Inch | mm | Kg/mtr | Cycles | FT1 -FT2 Type Ferrule | FT3 Type Ferrule | mm | mm | mm | mm | mm | mm |
| PW****-04-10-R1 | 6.3 | 1/4 | -4 | 6.2 | 7.0 | 10.6 | 11.6 | 14.1 | 22.5 | 3260 | 45 | 6525 | 90 | 13050 | 3.94 | 100 | 0.25 | - | FT1-12-04CF | 17.5 | FT3-12-04CF | 18.3 | 3.86 | 3.67 | 3.67 | 3.45 |
| PW****-05-10-R1 | 8 | 5/16 | -5 | 7.7 | 8.5 | 12.1 | 13.3 | 15.7 | 21.5 | 3120 | 43 | 6235 | 85 | 12325 | 4.53 | 115 | 0.31 | - | FT1-12-05CF | 18.5 | FT3-12-05CF | - | 5.29 | 5.11 | 5.11 | 4.91 |
| PW****-06-10-R1 | 10 | 3/8 | -6 | 9.3 | 10.1 | 14.5 | 15.7 | 18.1 | 18 | 2610 | 36 | 5220 | 72 | 10440 | 5.12 | 130 | 0.36 | - | FT1-12-06CF | 21.15 | FT3-12-06CF | 21.6 | 6.78 | 6.42 | 6.42 | 6.13 |

Pressure Wash Hose Blue & Black 2 Wire

| Part Number | Size | | | ID | | Wire Dimension | | OD | Working Pressure | | Pulse Pressure | | Burst Pressure | | Bend Radius | | Weight | Impulse Test Rate | Crimping Dimensions | Size in mm | Crimping Dimensions | Size in mm | Tail ID Top Tolerance | Tail ID Bottom Tolerance | Crimped No Go | Crimped Go |
|-----------------|------|------|-----|-----|------|----------------|------|------|------------------|------|----------------|-------|----------------|-------|-------------|-----|--------|-------------------|-----------------------|------------------|---------------------|------------|-----------------------|--------------------------|---------------|------------|
| | mm | inch | SAE | min | max | min | max | max | Mpa | psi | Mpa | psi | Mpa | psi | Inch | mm | Kg/mtr | Cycles | FT1 -FT2 Type Ferrule | FT3 Type Ferrule | mm | mm | mm | mm | mm | mm |
| PW****-04-100R2 | 6.3 | 1/4 | -4 | 6.2 | 7.0 | 12.1 | 13.3 | 15.7 | 40 | 5800 | 80 | 11600 | 160 | 23200 | 3.94 | 100 | 0.36 | - | FT2-12-04CF | 18.5 | FT3-12-04CF | 19.1 | 3.86 | 3.67 | 3.67 | 3.45 |
| PW****-05-100R2 | 8 | 5/16 | -5 | 7.7 | 8.5 | 13.7 | 14.9 | 17.3 | 35 | 5075 | 70 | 10150 | 140 | 20300 | 4.53 | 115 | 0.45 | - | FT2-12-05CF | 19.5 | FT3-12-05CF | 20.5 | 5.29 | 5.11 | 5.11 | 4.91 |
| PW****-06-100R2 | 10 | 3/8 | -6 | 9.3 | 10.1 | 16.1 | 17.3 | 19.7 | 33 | 4785 | 66 | 9570 | 132 | 19140 | 5.12 | 130 | 0.54 | - | FT2-12-06CF | 21.5 | FT3-12-06CF | 22 | 6.78 | 6.42 | 6.42 | 6.13 |

1 Wire Compact Hose, EN857- 1SC

| Part Number | Size | | | ID | | Wire Dimension | | OD | Working Pressure | | Pulse Pressure | | Burst Pressure | | Bend Radius | | Weight | Impulse Test Rate | Crimping Dimensions | Size in mm | Crimping Dimensions | Size in mm | Tail ID Top Tolerance | Tail ID Bottom Tolerance | Crimped No Go | Crimped Go |
|-------------|------|------|-----|------|------|----------------|------|------|------------------|------|----------------|------|----------------|-------|-------------|------|--------|-------------------|---------------------|------------|---------------------|------------|-----------------------|--------------------------|---------------|------------|
| | mm | inch | SAE | min | max | min | max | | max | Mpa | psi | Mpa | psi | Mpa | psi | Inch | | | | | | | | | | |
| 1SC-04 | 6.3 | 1/4 | -4 | 6.1 | 6.9 | 9.6 | 10.8 | 13.5 | 22.5 | 3260 | 45 | 6525 | 90 | 13050 | 2.95 | 75 | 0.20 | 150000 | FR78-04 | 15.0 | FR79-04 | 14.7 | 3.86 | 3.67 | 3.67 | 3.45 |
| 1SC-06 | 10 | 3/8 | -6 | 9.3 | 10.1 | 12.7 | 14.5 | 16.9 | 18 | 2610 | 36 | 5220 | 72 | 10440 | 3.54 | 90 | 0.19 | 150000 | FR78-06 | 18.6 | FR79-06 | 19 | 6.78 | 6.42 | 6.42 | 6.13 |
| 1SC-08 | 12.5 | 1/2 | -8 | 12.3 | 13.5 | 15.9 | 18.1 | 20.4 | 16 | 2320 | 32 | 4640 | 64 | 9280 | 5.12 | 130 | 0.23 | 150000 | FR78-08 | 22.7 | FR79-08 | 23.3 | 9.21 | 8.86 | 8.86 | 8.40 |
| 1SC-12 | 19 | 3/4 | -12 | 18.6 | 19.8 | 23.2 | 24.4 | 26.7 | 10.5 | 1520 | 21 | 3045 | 42 | 6090 | 7.09 | 180 | 0.34 | 150000 | - | - | FR79-12 | 30.8 | 14.46 | 13.91 | 13.91 | 13.31 |

2 Wire Compact Hose, EN857- 2SC

| Part Number | Size | | | ID | | Wire Dimension | | OD | Working Pressure | | Pulse Pressure | | Burst Pressure | | Bend Radius | | Weight | Impulse Test Rate | Crimping Dimensions | Size in mm | Crimping Dimensions | Size in mm | Tail ID Top Tolerance | Tail ID Bottom Tolerance | Crimped No Go | Crimped Go |
|-------------|------|------|-----|------|------|----------------|------|------|------------------|------|----------------|-------|----------------|-------|-------------|------|--------|-------------------|---------------------|------------|---------------------|------------|-----------------------|--------------------------|---------------|------------|
| | mm | inch | SAE | min | max | min | max | | max | Mpa | psi | Mpa | psi | Mpa | psi | Inch | | | | | | | | | | |
| 2SC-04 | 6.3 | 1/4 | -4 | 6.1 | 6.9 | 10.6 | 11.7 | 14.2 | 40 | 5800 | 80 | 11600 | 160 | 23200 | 2.95 | 75 | 0.30 | 200000 | FT2-12-04CF | 18.2 | F2SC-04 | 17.6 | 3.86 | 3.67 | 3.67 | 3.45 |
| 2SC-06 | 10 | 3/8 | -6 | 9.3 | 10.1 | 14.4 | 15.6 | 18.3 | 33 | 4785 | 66 | 9570 | 132 | 19140 | 3.54 | 90 | 0.42 | 200000 | FT2-12-06CF | 19 | F2SC-06 | 20.5 | 5.29 | 5.11 | 5.11 | 4.91 |
| 2SC-08 | 12.5 | 1/2 | -8 | 12.3 | 13.5 | 17.5 | 19.1 | 21.5 | 27.5 | 3990 | 55 | 7975 | 110 | 15950 | 5.12 | 130 | 0.54 | 200000 | FT2-12-08CF | 20.6 | F2SC-08 | 24.7 | 6.78 | 6.42 | 6.42 | 6.13 |
| 2SC-12 | 19 | 3/4 | -12 | 18.5 | 19.7 | 24.5 | 26.3 | 28.5 | 21.4 | 3120 | 43 | 6235 | 86 | 12470 | 7.86 | 200 | 0.80 | 200000 | - | 23.4 | F2SC-12 | 31.5 | 9.20 | 8.86 | 8.86 | 8.40 |
| 2SC-16 | 25 | 1 | -16 | 25.0 | 26.4 | 32.5 | 34.3 | 36.6 | 16.5 | 2390 | 33 | 4785 | 66 | 9570 | 9.84 | 250 | 1.15 | 200000 | - | - | F2SC-16 | 39 | 18.89 | 18.29 | 18.29 | 17.68 |

Multi Spiral Hydraulic Hose, SAE100 R13

| Part Number | Size | | | ID | | Wire Dimension | | OD | | Working Pressure | | Pulse Pressure | | Burst Pressure | | Bend Radius | | Weight | Impulse Test Rate | Crimping Dimensions | Size in mm | Tail ID Top Tolerance | Tail ID Bottom Tolerance | Skive Length in mm | | Crimped No Go | Crimped Go |
|-------------|------|-------|-----|------|------|----------------|------|------|------|------------------|------|----------------|-------|----------------|-------|-------------|-----|--------|-------------------|---------------------|------------|-----------------------|--------------------------|--------------------|----------|---------------|------------|
| | mm | inch | SAE | min | max | min | max | min | max | Mpa | psi | Mpa | psi | Mpa | psi | Inch | mm | Kg/mtr | Cycles | JMFR13 Type Ferrule | mm | mm | mm | mm | Internal | External | mm |
| 100R13AT-12 | 19 | 3/4 | -12 | 18.6 | 19.8 | 28.2 | 29.8 | 31.0 | 33.2 | 35 | 5075 | 70 | 10150 | 140 | 20300 | 9.45 | 240 | 2.10 | 500000 | JMFR13-12CF | 33.7 | 14.46 | 13.91 | 16 | 43 | 13.91 | 13.31 |
| 100R13AT-16 | 25 | 1 | -16 | 25.0 | 26.4 | 34.9 | 36.4 | 37.6 | 39.8 | 35 | 5075 | 70 | 10150 | 140 | 20300 | 11.81 | 300 | 2.88 | 500000 | JMFR13-16CF | 41.5 | 18.89 | 18.29 | 18 | 59 | 18.29 | 17.68 |
| 100R13AT-20 | 31.5 | 1.1/4 | -20 | 31.4 | 33.0 | 45.6 | 48.0 | 48.3 | 51.3 | 35 | 5075 | 70 | 10150 | 140 | 20300 | 16.54 | 420 | 4.20 | 500000 | JMFR13-20CF | 52.8 | 25.40 | 24.69 | 21 | 68 | 24.69 | 23.80 |
| 100R13AT-24 | 38 | 1.1/2 | -24 | 37.7 | 39.3 | 53.1 | 55.5 | 55.8 | 58.8 | 35 | 5075 | 70 | 10150 | 140 | 20300 | 19.69 | 500 | 5.00 | 500000 | JMFR13-24CF | 60.5 | 31.40 | 30.60 | 23 | 76 | 30.60 | 29.80 |
| 100R13AT-32 | 51 | 2 | -32 | 50.4 | 52.0 | 66.9 | 69.3 | 69.5 | 72.7 | 35 | 5075 | 70 | 10150 | 140 | 20300 | 25.20 | 640 | 7.00 | 500000 | JMFR13-32CF | 77.9 | 41.40 | 40.60 | 28 | 80 | 40.60 | 30.80 |

Multi Spiral Hydraulic Hose, SAE100 R15

| Part Number | Size | | | ID | | Wire Dimension | OD | Working Pressure | | Pulse Pressure | | Burst Pressure | | Bend Radius | | Weight | Impulse Test Rate | Crimping Dimensions | Size in mm | Tail ID Top Tolerance | Tail ID Bottom Tolerance | Skive Length in mm | | Crimped No Go | Crimped Go | | |
|-------------|------|-------|-----|------|------|----------------|------|------------------|------|----------------|-------|----------------|-------|-------------|-----|--------|-------------------|---------------------|------------|-----------------------|--------------------------|--------------------|----------|---------------|------------|----|---|
| | mm | inch | SAE | min | max | max | max | Mpa | psi | Mpa | psi | Mpa | psi | Inch | mm | Kg/mtr | Cycles | JMFR13 Type Ferrule | mm | mm | mm | mm | Internal | External | mm | mm | |
| 100R15AT-06 | 10 | 3/8 | -6 | 9.3 | 10.1 | 20.3 | 23.3 | 42 | 6090 | 84 | 12180 | 168 | 24360 | 5.91 | 150 | 0.80 | 500000 | - | - | - | - | - | - | - | - | - | - |
| 100R15AT-08 | 12.5 | 1/2 | -8 | 12.3 | 13.5 | 24.0 | 26.8 | 42 | 6090 | 84 | 12180 | 168 | 24360 | 7.87 | 200 | 0.95 | 500000 | - | - | - | - | - | - | - | - | - | - |
| 100R15AT-12 | 19 | 3/4 | -12 | 18.6 | 19.8 | 32.9 | 36.1 | 42 | 6090 | 84 | 12180 | 168 | 24360 | 10.40 | 265 | 1.85 | 500000 | JMFR13-12CF | 33.1 | 14.46 | 13.91 | 16 | 43 | 13.91 | 13.31 | | |
| 100R15AT-16 | 25 | 1 | -16 | 25.0 | 26.4 | 38.9 | 42.9 | 42 | 6090 | 84 | 12180 | 168 | 24360 | 13.00 | 330 | 2.90 | 500000 | JMFR13-16CF | 41.0 | 18.89 | 18.29 | 18 | 59 | 18.29 | 17.68 | | |
| 100R15AT-20 | 31.5 | 1.1/4 | -20 | 31.4 | 33.0 | 48.4 | 51.5 | 42 | 6090 | 84 | 12180 | 168 | 24360 | 17.52 | 445 | 4.20 | 500000 | JMFR13-20CF | 53.7 | 25.40 | 24.69 | 21 | 68 | 24.69 | 23.80 | | |
| 100R15AT-24 | 38 | 1.1/2 | -24 | 37.7 | 39.3 | 56.3 | 59.6 | 42 | 6090 | 84 | 12180 | 168 | 24360 | 20.87 | 530 | 5.60 | 500000 | JMFR13-24CF | 61.2 | 31.40 | 30.60 | 23 | 76 | 30.60 | 29.8 | | |

Hydraulic Hose, SAE 100 R17

| Part Number | Size | | | ID | | Wire Dimension | OD | Working Pressure | | Pulse Pressure | | Burst Pressure | | Bend Radius | | Weight | Impulse Test Rate | Crimping Dimensions | Size in mm | Crimping Dimensions | Size in mm | Tail ID Top Tolerance | Tail ID Bottom Tolerance | Crimped No Go | Crimped Go |
|-------------|------|------|-----|------|------|----------------|------|------------------|------|----------------|------|----------------|-------|-------------|-----|--------|-------------------|-----------------------|-----------------------|---------------------|------------|-----------------------|--------------------------|---------------|------------|
| | mm | inch | SAE | min | max | max | max | Mpa | psi | Mpa | psi | Mpa | psi | Inch | mm | Kg/mtr | Cycles | FT1 -FT2 Type Ferrule | FR79/FT3 Type Ferrule | mm | mm | mm | mm | mm | mm |
| 100R17-04 | 6.3 | 1/4 | -4 | 6.2 | 7.0 | 11.0 | 13.2 | 21 | 3045 | 42 | 6090 | 84 | 12180 | 1.97 | 50 | 0.169 | 200000 | FT2-12-04CF | FR79-04 | 18.5 | 14.7 | 3.86 | 3.67 | 3.67 | 3.45 |
| 100R17-05 | 8 | 5/16 | -5 | 7.7 | 8.5 | 13.0 | 15.0 | 21 | 3045 | 42 | 6090 | 84 | 12180 | 2.17 | 55 | 0.210 | 200000 | FT2-12-05CF | FR79-05 | 19.5 | 16.8 | 5.29 | 5.11 | 5.11 | 4.91 |
| 100R17-06 | 10 | 3/8 | -6 | 9.3 | 10.1 | 15.0 | 17.0 | 21 | 3045 | 42 | 6090 | 84 | 12180 | 2.56 | 65 | 0.254 | 200000 | FT2-12-06CF | FR79-06 | 21.5 | 19.4 | 6.78 | 6.42 | 6.42 | 6.13 |
| 100R17-08 | 12.5 | 1/2 | -8 | 12.3 | 13.5 | 18.8 | 21.1 | 21 | 3045 | 42 | 6090 | 84 | 12180 | 3.54 | 90 | 0.466 | 200000 | FT2-12-08CF | FT3-12-08CF | 24.4 | 23.5 | 9.21 | 8.86 | 8.86 | 8.40 |
| 100R17-10 | 16 | 5/8 | -10 | 15.5 | 16.7 | 23.6 | 25.9 | 21 | 3045 | 42 | 6090 | 84 | 12180 | 3.94 | 105 | 0.586 | 200000 | FT2-12-10CF | FT3-12-10CF | 28 | 29 | 12.09 | 11.59 | 11.59 | 10.99 |
| 100R17-12 | 19 | 3/4 | -12 | 18.6 | 19.8 | 27.7 | 30.3 | 21 | 3045 | 42 | 6090 | 84 | 12180 | 4.72 | 125 | 0.749 | 200000 | FT2-12-12CF | FT3-12-12CF | 32 | 32.7 | 14.46 | 13.91 | 13.91 | 13.31 |
| 100R17-16 | 25 | 1 | -16 | 25.0 | 26.4 | 35.6 | 38.6 | 21 | 3045 | 42 | 6090 | 84 | 12180 | 5.91 | 150 | 1.457 | 200000 | FT2-12-16CF | FT3-12-16CF | 40.2 | 41 | 18.89 | 18.29 | 18.29 | 17.68 |

Hydraulic Hose, MSHA R2AT

| Part Number | Size | | | ID | | Wire Dimension | | OD | 2SN | Working Pressure | | Pulse Pressure | | Burst Pressure | | Bend Radius | | Weight | Impulse Test Rate | Crimping Dimensions | Size in mm | Crimping Dimensions | Size in mm | Tail ID Top Tolerance | Tail ID Bottom Tolerance | Crimped No Go | Crimped Go |
|-------------|------|-------|-----|------|------|----------------|------|------|-----|------------------|------|----------------|-------|----------------|-------|-------------|------|--------|-------------------|---------------------|------------|---------------------|------------|-----------------------|--------------------------|---------------|------------|
| | mm | inch | SAE | min | max | min | max | | | max | Mpa | psi | Mpa | psi | Mpa | psi | Inch | | | | | | | | | | |
| MSHAR2AT-04 | 6.3 | 1/4 | -4 | 6.2 | 7.0 | 12.1 | 13.3 | 15.7 | | 40 | 5800 | 80 | 11600 | 160 | 23200 | 3.94 | 10 | 0.36 | 200000 | FT2-12-04CF | 18.5 | FT3-12-04CF | 19.1 | 3.86 | 3.67 | 3.67 | 3.45 |
| MSHAR2AT-06 | 10 | 3/8 | -6 | 9.3 | 10.1 | 16.1 | 17.3 | 19.7 | | 33 | 4785 | 66 | 9570 | 132 | 19140 | 5.12 | 130 | 0.54 | 200000 | FT2-12-06CF | 22.25 | FT3-12-06CF | 22 | 6.78 | 6.42 | 6.42 | 6.13 |
| MSHAR2AT-08 | 12.5 | 1/2 | -8 | 12.3 | 13.5 | 19.0 | 20.6 | 23.0 | | 27.5 | 3990 | 55 | 7975 | 110 | 15950 | 7.09 | 180 | 0.68 | 200000 | FT2-12-08CF | 24.4 | FT3-12-08CF | 24.5 | 9.21 | 8.86 | 8.86 | 8.40 |
| MSHAR2AT-12 | 19 | 3/4 | -12 | 18.6 | 19.8 | 26.2 | 27.8 | 30.1 | | 21.5 | 3120 | 43 | 6235 | 85 | 12325 | 9.45 | 240 | 0.94 | 200000 | FT2-12-12CF | 32 | FT3-12-12CF | 32 | 14.46 | 13.91 | 13.91 | 13.31 |
| MSHAR2AT-16 | 25 | 1 | -16 | 25.0 | 26.4 | 34.1 | 35.7 | 38.9 | | 16.5 | 2390 | 32.5 | 4710 | 65 | 9425 | 11.81 | 300 | 1.35 | 200000 | FT2-12-16CF | 40.2 | FT3-12-16CF | 41 | 18.89 | 18.29 | 18.29 | 17.68 |
| MSHAR2AT-20 | 31.5 | 1.1/4 | -20 | 31.4 | 33.0 | 43.3 | 45.7 | 49.5 | | 12.5 | 1810 | 25 | 3625 | 50 | 7250 | 16.54 | 420 | 2.15 | 200000 | FT2-12-20CF | 50 | FT3-12-20CF | 51.5 | 25.40 | 24.69 | 24.69 | 23.8 |
| MSHAR2AT-24 | 38 | 1.1/2 | -24 | 37.7 | 39.3 | 49.6 | 52.0 | 55.9 | | 9 | 1305 | 18 | 2310 | 36 | 5220 | 19.69 | 500 | 2.65 | 200000 | FT2-12-24CF | 59.5 | FT3-12-24CF | 59.7 | 31.40 | 30.60 | 30.60 | 29.80 |
| MSHAR2AT-32 | 51 | 2 | -32 | 50.4 | 52.0 | 62.3 | 64.7 | 68.6 | | 8 | 1160 | 16 | 2320 | 32 | 4640 | 24.80 | 630 | 3.42 | 200000 | FT2-12-32CF | 72.3 | FT3-12-32CF | 73.4 | 41.40 | 40.60 | 40.60 | 30.80 |

Hydraulic Thermoplastic Hose, SAE 100 R7

| Part Number | Size | | | ID | | OD | Working Pressure | | Burst Pressure | | Bend Radius | Weight | Crimping Dimensions | Size in mm | Tail ID Top Tolerance | Tail ID Bottom Tolerance | Crimped No Go | Crimped Go |
|-------------|------|------|-----|------|------|------|------------------|------|----------------|-------|-------------|--------|---------------------|------------|-----------------------|--------------------------|---------------|------------|
| | mm | inch | SAE | min | max | max | Mpa | psi | Mpa | psi | mm | Kg/mtr | FR79 Type Ferrule | mm | mm | mm | mm | |
| 100R7-03 | 5 | 3/16 | -3 | 4.6 | 5.4 | 11.4 | 21.0 | 3045 | 84 | 12180 | 90 | 0.073 | FR79-03 | 12.25 | – | – | – | – |
| 100R7-04 | 6.3 | 1/4 | -4 | 6.2 | 7.0 | 13.7 | 19.2 | 2784 | 77 | 11165 | 100 | 0.090 | FR79-04 | 14.7 | 3.86 | 3.67 | 3.67 | 3.45 |
| 100R7-05 | 8 | 5/16 | -5 | 7.7 | 8.5 | 15.6 | 17.5 | 2538 | 70 | 10150 | 115 | 0.128 | FR79-05 | 17 | 5.29 | 5.11 | 5.11 | 4.91 |
| 100R7-06 | 10 | 3/8 | -6 | 9.3 | 10.3 | 18.4 | 15.7 | 2277 | 63 | 9135 | 125 | 0.155 | FR79-06 | 19.4 | 6.78 | 6.42 | 6.42 | 6.13 |
| 100R7-08 | 12.5 | 1/2 | -8 | 12.3 | 13.5 | 22.5 | 14.0 | 2030 | 56 | 8120 | 180 | 0.224 | FR79-08 | 23.8 | 9.21 | 8.86 | 8.86 | 8.40 |

Hydraulic Thermoplastic Hose, SAE 100 R8

| Part Number | Size | | | ID | | OD | Working Pressure | | Burst Pressure | | Bend Radius | Weight | Crimping Dimensions | Size in mm | Tail ID Top Tolerance | Tail ID Bottom Tolerance | Crimped No Go | Crimped Go |
|-------------|------|------|-----|------|------|------|------------------|------|----------------|-------|-------------|--------|---------------------|------------|-----------------------|--------------------------|---------------|------------|
| | mm | inch | SAE | min | max | max | Mpa | psi | Mpa | psi | mm | Kg/mtr | FR79 Type Ferrule | mm | mm | mm | mm | |
| 100R8-04 | 6.3 | 1/4 | -4 | 6.2 | 7 | 16.8 | 35 | 5075 | 140 | 20300 | 100 | 0.097 | FR79-04 | 14.5 | 3.86 | 3.67 | 3.67 | 3.45 |
| 100R8-05 | 8 | 5/16 | -5 | 7.7 | 8.5 | – | – | – | – | – | – | – | FR79-05 | 16.7 | 5.29 | 5.11 | 5.11 | 4.91 |
| 100R8-06 | 10 | 3/8 | -6 | 9.3 | 10.3 | 20.3 | 28 | 4060 | 112 | 16240 | 125 | 0.178 | FR79-06 | 18.6 | 6.78 | 6.42 | 6.42 | 6.13 |
| 100R8-08 | 12.5 | 1/2 | -8 | 12.3 | 13.5 | 24.6 | 24.5 | 3553 | 98 | 14210 | 180 | 0.216 | FR79-08 | 22.5 | 9.21 | 8.86 | 8.86 | 8.40 |

Smooth Bore PTFE Hose

| Part Number | Size | | | ID | | OD | Working Pressure | | Burst Pressure | | Bend Radius | Weight | Crimping Dimensions | Size in mm | Tail ID Top Tolerance | Tail ID Bottom Tolerance | Crimped No Go | Crimped Go |
|-------------|------|------|-----|------|------|------|------------------|--------|----------------|--------|-------------|--------|---------------------|------------|-----------------------|--------------------------|---------------|------------|
| | mm | inch | SAE | min | max | max | Mpa | psi | Mpa | psi | mm | Kg/mtr | PTFEF Type Ferrule | mm | mm | mm | mm | |
| SSPTFE-03 | 4.8 | 3/16 | -3 | 4.8 | 5 | 7.7 | 24 | 3480 | 57 | 8265 | 50 | 0.090 | PTFEF-03 | 10.9 | – | – | – | – |
| SSPTFE-04 | 6.0 | 1/4 | -4 | 6 | 6.4 | 8.8 | 23.2 | 3364 | 55.2 | 8004 | 75 | 0.110 | PTFEF-04 | 12 | 3.86 | 3.67 | 3.67 | 3.45 |
| SSPTFE-05 | 7.9 | 5/16 | -5 | 7.9 | 8.2 | 10.8 | 19.4 | 2813 | 54 | 7830 | 100 | 0.135 | PTFEF-05 | 12.8 | 5.29 | 5.11 | 5.11 | 4.91 |
| SSPTFE-06 | 9.5 | 3/8 | -6 | 9.7 | 10 | 12.4 | 16.2 | 2349 | 45 | 6525 | 125 | 0.165 | PTFEF-06 | 15.9 | 6.78 | 6.42 | 6.42 | 6.13 |
| SSPTFE-08 | 12.7 | 1/2 | -8 | 12.7 | 13 | 15.9 | 13.9 | 2015.5 | 42.5 | 6162.5 | 165 | 0.230 | PTFEF-08 | 20.8 | 9.21 | 8.86 | 8.86 | 8.40 |
| SSPTFE-12 | 19.0 | 3/4 | -12 | 19 | 19.3 | 22.3 | 9.2 | 1334 | 31.5 | 4567.5 | 230 | 0.405 | PTFEF-12 | 28 | 14.46 | 13.91 | 13.91 | 13.31 |
| SSPTFE-16 | 25.4 | 1 | -16 | 25.2 | 25.6 | 29.8 | 7.2 | 1044 | 20 | 2900 | 300 | 0.510 | PTFEF-16 | 34 | 18.89 | 18.29 | 18.29 | 17.68 |

Convuluted Bore PTFE Hose

| Part Number | Size | | | ID | | OD | Working Pressure | | Burst Pressure | | Bend Radius | Weight | Crimping Dimensions | Size in mm | Tail ID Top Tolerance | Tail ID Bottom Tolerance | Crimped No Go | Crimped Go |
|-------------|-------|------|-----|------|-------|------|------------------|--------|----------------|------|-------------|--------|---------------------|------------|-----------------------|--------------------------|---------------|------------|
| | mm | inch | SAE | min | max | max | Mpa | psi | Mpa | psi | mm | Kg/mtr | PTFEF Type Ferrule | mm | mm | mm | mm | |
| SSCPTFE-04 | 6.35 | 1/4 | -4 | 5.75 | 6.55 | 11.3 | 15.1 | 2189.5 | 45 | 6525 | 32 | 0.177 | PTFEF-04 | 12.5 | 3.86 | 3.67 | 3.67 | 3.45 |
| SSCPTFE-05 | 7.50 | 5/16 | -5 | 7.75 | 8.55 | 14.1 | 12.6 | 1827 | 37 | 5365 | 36 | 0.215 | PTFEF-05 | 13 | 5.29 | 5.11 | 5.11 | 4.91 |
| SSCPTFE-06 | 9.50 | 3/8 | -6 | 9.14 | 10.25 | 17.2 | 10.5 | 1522.5 | 31 | 4495 | 59 | 0.230 | PTFEF-06 | 16 | 6.78 | 6.42 | 6.42 | 6.13 |
| SSCPTFE-08 | 12.70 | 1/2 | -8 | 12.6 | 13.3 | 19.3 | 9 | 1305 | 25 | 3625 | 82 | 0.276 | PTFEF-08 | 20.9 | 9.21 | 8.86 | 8.86 | 8.40 |
| SSCPTFE-12 | 19.50 | 3/4 | -12 | 18.6 | 19.85 | 28.1 | 6 | 870 | 22 | 3180 | 113 | 0.570 | PTFEF-12 | 28 | 14.46 | 13.91 | 13.91 | 13.31 |
| SSCPTFE-16 | 25.40 | 1 | -16 | 24.8 | 26.16 | 37.6 | 4.7 | 681.5 | 14.4 | 2088 | 189 | 0.790 | PTFEF-16 | 33.5 | 18.89 | 18.29 | 18.29 | 17.68 |

Hydraulic Hose, EN853, DIN20022, SAE100R1AT

| Part Number | Size | | | ID | | Wire Dimension | | OD 1SN | Working Pressure | | Pulse Pressure | | Burst Pressure | | Bend Radius | | Weight | Impulse Test Rate | Crimping Dimensions | Size in mm | Crimping Dimensions | Size in mm | Tail ID Top Tolerance | Tail ID Bottom Tolerance | Crimped No Go | Crimped Go |
|-------------|------|-------|-----|------|------|----------------|------|--------|------------------|------|----------------|------|----------------|-------|-------------|------|--------|-------------------|---------------------|------------|---------------------|------------|-----------------------|--------------------------|---------------|------------|
| | mm | inch | SAE | min | max | min | max | | max | Mpa | psi | Mpa | psi | Mpa | psi | Inch | | | | | | | | | | |
| 100R1AT-04 | 6.3 | 1/4 | -4 | 6.2 | 7.0 | 10.6 | 11.6 | 14.1 | 22.5 | 3260 | 45 | 6525 | 90 | 13050 | 3.94 | 100 | 0.25 | 150000 | FT1-12-04CF | 17.5 | FT3-12-04CF | 18.3 | 3.86 | 3.67 | 3.67 | 3.45 |
| 100R1AT-05 | 8 | 5/16 | -5 | 7.7 | 8.5 | 12.1 | 13.3 | 15.7 | 21.5 | 3120 | 43 | 6235 | 85 | 12325 | 4.53 | 115 | 0.31 | 150000 | FT1-12-05CF | 18.5 | FT3-12-05CF | 20.5 | 5.29 | 5.11 | 5.11 | 4.91 |
| 100R1AT-06 | 10 | 3/8 | -6 | 9.3 | 10.1 | 14.5 | 15.7 | 18.1 | 18 | 2610 | 36 | 5220 | 72 | 10440 | 5.12 | 130 | 0.36 | 150000 | FT1-12-06CF | 21.15 | FT3-12-06CF | 21.6 | 6.78 | 6.42 | 6.42 | 6.13 |
| 100R1AT-08 | 12.5 | 1/2 | -8 | 12.3 | 13.5 | 17.5 | 19.1 | 21.4 | 16 | 2320 | 32 | 4640 | 64 | 9280 | 7.09 | 180 | 0.45 | 150000 | FT1-12-08CF | 23.3 | FT3-12-08CF | 24 | 9.21 | 8.86 | 8.86 | 8.40 |
| 100R1AT-10 | 16 | 5/8 | -10 | 15.5 | 16.7 | 20.6 | 22.2 | 24.5 | 13 | 1885 | 26 | 3770 | 52 | 7540 | 7.87 | 200 | 0.52 | 150000 | FT1-12-10CF | 26.8 | FT3-12-10CF | 28.7 | 12.09 | 11.59 | 11.59 | 10.99 |
| 100R1AT-12 | 19 | 3/4 | -12 | 18.6 | 19.8 | 24.6 | 26.2 | 28.5 | 10.5 | 1520 | 21 | 3045 | 42 | 6090 | 9.45 | 240 | 0.65 | 150000 | FT1-12-12CF | 30.5 | FT3-12-12CF | 31.5 | 14.46 | 13.91 | 13.91 | 13.31 |
| 100R1AT-16 | 25 | 1 | -16 | 25.0 | 26.4 | 32.5 | 34.1 | 36.6 | 8.8 | 1280 | 17.5 | 2540 | 35 | 5075 | 11.81 | 300 | 0.91 | 150000 | FT1-12-16CF | 39 | FT3-12-16CF | 41 | 18.89 | 18.29 | 18.29 | 17.68 |
| 100R1AT-20 | 31.5 | 1.1/4 | -20 | 31.4 | 33.0 | 39.3 | 41.7 | 44.8 | 6.3 | 910 | 15 | 2175 | 25 | 3625 | 16.54 | 420 | 1.30 | 150000 | FT1-12-20CF | 48.4 | FT3-12-20CF | 48.5 | 25.40 | 24.69 | 24.69 | 23.80 |
| 100R1AT-24 | 38 | 1.1/2 | -24 | 37.7 | 39.3 | 45.6 | 48.0 | 52.1 | 5 | 725 | 10 | 1450 | 20 | 2900 | 19.69 | 500 | 1.70 | 150000 | FT1-12-24CF | 56.8 | FT3-12-24CF | 58.5 | 31.40 | 30.60 | 30.60 | 29.80 |
| 100R1AT-32 | 51 | 2 | -32 | 50.4 | 52.0 | 58.7 | 61.7 | 65.5 | 4 | 580 | 8 | 1160 | 16 | 2320 | 24.80 | 630 | 2.00 | 150000 | FT1-12-32CF | 69.3 | FT3-12-32CF | 70 | 41.40 | 40.60 | 40.60 | 30.80 |

Hydraulic Hose, EN853, DIN20022, SAE100R2AT

| Part Number | Size | | | ID | | Wire Dimension | | OD 2SN | Working Pressure | | Pulse Pressure | | Burst Pressure | | Bend Radius | | Weight | Impulse Test Rate | Crimping Dimensions | Size in mm | Crimping Dimensions | Size in mm | Tail ID Top Tolerance | Tail ID Bottom Tolerance | Crimped No Go | Crimped Go |
|-------------|------|-------|-----|------|------|----------------|------|--------|------------------|------|----------------|-------|----------------|-------|-------------|------|--------|-------------------|---------------------|------------|---------------------|------------|-----------------------|--------------------------|---------------|------------|
| | mm | inch | SAE | min | max | min | max | | max | Mpa | psi | Mpa | psi | Mpa | psi | Inch | | | | | | | | | | |
| 100R2AT-04 | 6.3 | 1/4 | -4 | 6.2 | 7.0 | 12.1 | 13.3 | 15.7 | 40 | 5800 | 80 | 11600 | 160 | 23200 | 3.94 | 100 | 0.36 | 200000 | FT2-12-04CF | 18.5 | FT3-12-04CF | 19.1 | 3.86 | 3.67 | 3.67 | 3.45 |
| 100R2AT-05 | 8 | 5/16 | -5 | 7.7 | 8.5 | 13.7 | 14.9 | 17.3 | 35 | 5075 | 70 | 10150 | 140 | 20300 | 4.53 | 115 | 0.45 | 200000 | FT2-12-05CF | 19.5 | FT3-12-05CF | - | 5.29 | 5.11 | 5.11 | 4.91 |
| 100R2AT-06 | 10 | 3/8 | -6 | 9.3 | 10.1 | 16.1 | 17.3 | 19.7 | 33 | 4785 | 66 | 9570 | 132 | 19140 | 5.12 | 130 | 0.54 | 200000 | FT2-12-06CF | 22.25 | FT3-12-06CF | 22 | 6.78 | 6.42 | 6.42 | 6.13 |
| 100R2AT-08 | 12.5 | 1/2 | -8 | 12.3 | 13.5 | 19.0 | 20.6 | 23.0 | 27.5 | 3990 | 55 | 7975 | 110 | 15950 | 7.09 | 180 | 0.68 | 200000 | FT2-12-08CF | 24.4 | FT3-12-08CF | 24.5 | 9.21 | 8.86 | 8.86 | 8.40 |
| 100R2AT-10 | 16 | 5/8 | -10 | 15.5 | 16.7 | 22.2 | 23.8 | 26.2 | 25 | 3625 | 50 | 7250 | 100 | 14500 | 7.87 | 200 | 0.80 | 200000 | FT2-12-10CF | 28 | FT3-12-10CF | 28.7 | 12.09 | 11.59 | 11.59 | 10.99 |
| 100R2AT-12 | 19 | 3/4 | -12 | 18.6 | 19.8 | 26.2 | 27.8 | 30.1 | 21.5 | 3120 | 43 | 6235 | 85 | 12325 | 9.45 | 240 | 0.94 | 200000 | FT2-12-12CF | 32 | FT3-12-12CF | 32 | 14.46 | 13.91 | 13.91 | 13.31 |
| 100R2AT-16 | 25 | 1 | -16 | 25.0 | 26.4 | 34.1 | 35.7 | 38.9 | 16.5 | 2390 | 32.5 | 4710 | 65 | 9425 | 11.81 | 300 | 1.35 | 200000 | FT2-12-16CF | 40.2 | FT3-12-16CF | 41 | 18.89 | 18.29 | 18.29 | 17.68 |
| 100R2AT-20 | 31.5 | 1.1/4 | -20 | 31.4 | 33.0 | 43.3 | 45.7 | 49.5 | 12.5 | 1810 | 25 | 3625 | 50 | 7250 | 16.54 | 420 | 2.15 | 200000 | FT2-12-20CF | 50 | FT3-12-20CF | 51.5 | 25.40 | 24.69 | 24.69 | 23.80 |
| 100R2AT-24 | 38 | 1.1/2 | -24 | 37.7 | 39.3 | 49.6 | 52.0 | 55.9 | 9 | 1305 | 18 | 2310 | 36 | 5220 | 19.69 | 500 | 2.65 | 200000 | FT2-12-24CF | 59.5 | FT3-12-24CF | 59.7 | 31.40 | 30.60 | 30.60 | 29.80 |
| 100R2AT-32 | 51 | 2 | -32 | 50.4 | 52.0 | 62.3 | 64.7 | 68.6 | 8 | 1160 | 16 | 2320 | 32 | 4640 | 24.80 | 630 | 3.42 | 200000 | FT2-12-32CF | 72.3 | FT3-12-32CF | 73.4 | 41.40 | 40.60 | 40.60 | 30.80 |

Multi Spiral Hydraulic Hose, EN856-4SP

| Part Number | Size | | | ID | | Wire Dimension | | | | Working Pressure | | Pulse Pressure | | Burst Pressure | | Bend Radius | | Weight | Impulse Test Rate | Crimping Dimensions | Size in mm | Crimping Dimensions | Size in mm | Tail ID Top Tolerance | Tail ID Bottom Tolerance | Skive Length JMF56 in mm | Skive Length JMF57 in mm | Crimped No Go | Crimped Go |
|-------------|------|-------|-----|------|------|----------------|------|------|------|------------------|------|----------------|-------|----------------|-------|-------------|-----|--------|-------------------|---------------------|--------------------|---------------------|------------|-----------------------|--------------------------|--------------------------|--------------------------|---------------|------------|
| | mm | inch | SAE | min | max | min | max | min | max | Mpa | psi | Mpa | psi | Mpa | psi | Inch | mm | Kg/mtr | Cycles | JMF56 Type Ferrule | JMF57 Type Ferrule | mm | mm | External | External | mm | mm | | |
| 4SP-04 | 6.3 | 1/4 | -4 | 6.2 | 7.0 | 14.1 | 15.3 | 17.1 | 18.7 | 45 | 6525 | 90 | 13050 | 180 | 26100 | 5.91 | 150 | 0.64 | 400000 | | | | | | | | | | |
| 4SP-06 | 10 | 3/8 | -6 | 9.3 | 10.1 | 16.9 | 18.1 | 20.6 | 22.2 | 44.5 | 6450 | 89 | 12905 | 178 | 25810 | 7.09 | 180 | 0.75 | 400000 | JMF56-06CF | JMF57-06CF | 23 | 6.78 | 6.42 | 27 | - | 6.42 | 6.13 | |
| 4SP-08 | 12.5 | 1/2 | -8 | 12.3 | 13.5 | 19.4 | 21.0 | 23.8 | 25.4 | 41.5 | 6020 | 83 | 12035 | 166 | 24070 | 9.06 | 230 | 0.89 | 400000 | JMF56-08CF | JMF57-08CF | 26.5 | 9.21 | 8.86 | 28 | 32 | 8.86 | 8.40 | |
| 4SP-10 | 16 | 5/8 | -10 | 15.5 | 16.7 | 23.0 | 24.6 | 27.4 | 29.0 | 35 | 5075 | 70 | 10150 | 140 | 20300 | 9.84 | 250 | 1.10 | 400000 | JMF56-10CF | JMF57-10CF | - | 12.09 | 11.59 | 33 | - | 11.59 | 10.99 | |
| 4SP-12 | 19 | 3/4 | -12 | 18.6 | 19.8 | 27.4 | 29.0 | 31.4 | 33.0 | 35 | 5075 | 70 | 10150 | 148 | 21460 | 11.81 | 300 | 1.50 | 400000 | JMF56-12CF | JMF57-12CF | 34 | 14.46 | 13.91 | 32 | 40 | 13.91 | 13.31 | |
| 4SP-16 | 25 | 1 | -16 | 25.0 | 26.4 | 34.5 | 36.1 | 38.5 | 40.9 | 28 | 4060 | 56 | 8120 | 112 | 16240 | 13.39 | 340 | 2.00 | 400000 | JMF56-16CF | JMF57-16CF | 43 | 18.89 | 18.29 | 42 | 48 | 18.29 | 17.68 | |
| 4SP-20 | 31.5 | 1.1/4 | -20 | 31.4 | 33.0 | 45.0 | 47.0 | 49.2 | 52.4 | 21 | 3045 | 42 | 6090 | 84 | 12180 | 18.11 | 460 | 3.00 | 400000 | JMF56-20CF | JMF57-20CF | 53 | 25.40 | 24.69 | 48 | 55 | 24.69 | 23.80 | |
| 4SP-24 | 38 | 1.1/2 | -24 | 37.7 | 39.3 | 51.4 | 53.4 | 55.6 | 58.8 | 18.5 | 2680 | 37 | 5365 | 74 | 10730 | 22.05 | 560 | 3.40 | 400000 | JMF56-24CF | JMF57-24CF | 60.5 | 31.40 | 30.60 | 60 | 68 | 30.60 | 29.80 | |
| 4SP-32 | 51 | 2 | -32 | 50.4 | 52.0 | 64.3 | 66.3 | 68.2 | 71.4 | 16.5 | 2390 | 33 | 4785 | 66 | 9570 | 25.98 | 660 | 4.35 | 400000 | JMF56-32CF | JMF57-32CF | 74.5 | 41.40 | 40.60 | 61 | 73 | 40.60 | 30.80 | |

Multi Spiral Hydraulic Hose, EN856-4SH

| Part Number | Size | | | ID | | Wire Dimension | | | | Working Pressure | | Pulse Pressure | | Burst Pressure | | Bend Radius | | Weight | Impulse Test Rate | Crimping Dimensions | Size in mm | Tail ID Top Tolerance | Tail ID Bottom Tolerance | Skive Length in mm | | Crimped No Go | Crimped Go |
|-------------|------|-------|-----|------|------|----------------|------|------|------|------------------|------|----------------|-------|----------------|-------|-------------|-----|--------|-------------------|---------------------|------------|-----------------------|--------------------------|--------------------|----|---------------|------------|
| | mm | inch | SAE | min | max | min | max | min | max | Mpa | psi | Mpa | psi | Mpa | psi | Inch | mm | Kg/mtr | Cycles | JMF4SH Type Ferrule | mm | mm | Internal | External | mm | mm | |
| 4SH-12 | 19 | 3/4 | -12 | 18.6 | 19.8 | 27.6 | 29.2 | 31.4 | 33.0 | 42 | 6090 | 84 | 12180 | 168 | 24360 | 11.02 | 280 | 1.70 | 400000 | JMF4SH-12CF | 35.1 | 14.46 | 13.91 | 16 | 43 | 13.91 | 13.31 |
| 4SH-16 | 25 | 1 | -16 | 25.0 | 26.4 | 34.4 | 36.0 | 37.5 | 39.9 | 38 | 5510 | 76 | 11020 | 152 | 22040 | 13.39 | 340 | 2.50 | 400000 | JMF4SH-16CF | 43.4 | 18.89 | 18.29 | 18 | 59 | 18.29 | 17.68 |
| 4SH-20 | 31.5 | 1.1/4 | -20 | 31.4 | 33.0 | 40.9 | 42.9 | 43.9 | 47.1 | 32.5 | 4710 | 65 | 9425 | 130 | 18850 | 18.11 | 460 | 3.00 | 400000 | JMF4SH-20CF | 50.0 | 25.40 | 24.69 | 21 | 68 | 24.69 | 23.80 |
| 4SH-24 | 38 | 1.1/2 | -24 | 37.7 | 39.3 | 47.8 | 49.8 | 51.9 | 55.1 | 29 | 4205 | 58 | 8410 | 116 | 16820 | 22.05 | 560 | 3.60 | 400000 | JMF4SH-24CF | 56.0 | 31.40 | 30.60 | 23 | 76 | 30.60 | 29.80 |
| 4SH-32 | 51 | 2 | -32 | 50.4 | 52.0 | 62.2 | 64.2 | 66.5 | 69.7 | 25 | 3625 | 50 | 7250 | 100 | 14500 | 27.56 | 700 | 5.00 | 400000 | JMF4SH-32CF | 72.4 | 41.40 | 40.60 | 28 | 80 | 40.60 | 30.80 |

Pressure Wash Hose, Blue & Black, 1 Wire

| Part Number | Size | | | ID | | Wire Dimension | | OD | Working Pressure | | Pulse Pressure | | Burst Pressure | | Bend Radius | | Weight | Impulse Test Rate | Crimping Dimensions | Size in mm | Crimping Dimensions | Size in mm | Tail ID Top Tolerance | Tail ID Bottom Tolerance | Crimped No Go | Crimped Go |
|-----------------|------|------|-----|-----|------|----------------|------|------|------------------|------|----------------|------|----------------|-------|-------------|-----|--------|-------------------|-----------------------|------------------|---------------------|------------|-----------------------|--------------------------|---------------|------------|
| | mm | inch | SAE | min | max | min | max | max | Mpa | psi | Mpa | psi | Mpa | psi | Inch | mm | Kg/mtr | Cycles | FT1 -FT2 Type Ferrule | FT3 Type Ferrule | mm | mm | mm | mm | mm | mm |
| PW****-04-10-R1 | 6.3 | 1/4 | -4 | 6.2 | 7.0 | 10.6 | 11.6 | 14.1 | 22.5 | 3260 | 45 | 6525 | 90 | 13050 | 3.94 | 100 | 0.25 | - | FT1-12-04CF | 17.5 | FT3-12-04CF | 18.3 | 3.86 | 3.67 | 3.67 | 3.45 |
| PW****-05-10-R1 | 8 | 5/16 | -5 | 7.7 | 8.5 | 12.1 | 13.3 | 15.7 | 21.5 | 3120 | 43 | 6235 | 85 | 12325 | 4.53 | 115 | 0.31 | - | FT1-12-05CF | 18.5 | FT3-12-05CF | - | 5.29 | 5.11 | 5.11 | 4.91 |
| PW****-06-10-R1 | 10 | 3/8 | -6 | 9.3 | 10.1 | 14.5 | 15.7 | 18.1 | 18 | 2610 | 36 | 5220 | 72 | 10440 | 5.12 | 130 | 0.36 | - | FT1-12-06CF | 21.15 | FT3-12-06CF | 21.6 | 6.78 | 6.42 | 6.42 | 6.13 |

Pressure Wash Hose Blue & Black 2 Wire

| Part Number | Size | | | ID | | Wire Dimension | | OD | Working Pressure | | Pulse Pressure | | Burst Pressure | | Bend Radius | | Weight | Impulse Test Rate | Crimping Dimensions | Size in mm | Crimping Dimensions | Size in mm | Tail ID Top Tolerance | Tail ID Bottom Tolerance | Crimped No Go | Crimped Go |
|-----------------|------|------|-----|-----|------|----------------|------|------|------------------|------|----------------|-------|----------------|-------|-------------|-----|--------|-------------------|-----------------------|------------------|---------------------|------------|-----------------------|--------------------------|---------------|------------|
| | mm | inch | SAE | min | max | min | max | max | Mpa | psi | Mpa | psi | Mpa | psi | Inch | mm | Kg/mtr | Cycles | FT1 -FT2 Type Ferrule | FT3 Type Ferrule | mm | mm | mm | mm | mm | mm |
| PW****-04-100R2 | 6.3 | 1/4 | -4 | 6.2 | 7.0 | 12.1 | 13.3 | 15.7 | 40 | 5800 | 80 | 11600 | 160 | 23200 | 3.94 | 100 | 0.36 | - | FT2-12-04CF | 18.5 | FT3-12-04CF | 19.1 | 3.86 | 3.67 | 3.67 | 3.45 |
| PW****-05-100R2 | 8 | 5/16 | -5 | 7.7 | 8.5 | 13.7 | 14.9 | 17.3 | 35 | 5075 | 70 | 10150 | 140 | 20300 | 4.53 | 115 | 0.45 | - | FT2-12-05CF | 19.5 | FT3-12-05CF | 20.5 | 5.29 | 5.11 | 5.11 | 4.91 |
| PW****-06-100R2 | 10 | 3/8 | -6 | 9.3 | 10.1 | 16.1 | 17.3 | 19.7 | 33 | 4785 | 66 | 9570 | 132 | 19140 | 5.12 | 130 | 0.54 | - | FT2-12-06CF | 21.5 | FT3-12-06CF | 22 | 6.78 | 6.42 | 6.42 | 6.13 |

1 Wire Compact Hose, EN857- 1SC

| Part Number | Size | | | ID | | Wire Dimension | | OD | Working Pressure | | Pulse Pressure | | Burst Pressure | | Bend Radius | | Weight | Impulse Test Rate | Crimping Dimensions | Size in mm | Crimping Dimensions | Size in mm | Tail ID Top Tolerance | Tail ID Bottom Tolerance | Crimped No Go | Crimped Go |
|-------------|------|------|-----|------|------|----------------|------|------|------------------|------|----------------|------|----------------|-------|-------------|------|--------|-------------------|---------------------|------------|---------------------|------------|-----------------------|--------------------------|---------------|------------|
| | mm | inch | SAE | min | max | min | max | | max | Mpa | psi | Mpa | psi | Mpa | psi | Inch | | | | | | | | | | |
| 1SC-04 | 6.3 | 1/4 | -4 | 6.1 | 6.9 | 9.6 | 10.8 | 13.5 | 22.5 | 3260 | 45 | 6525 | 90 | 13050 | 2.95 | 75 | 0.20 | 150000 | FR78-04 | 15.0 | FR79-04 | 14.7 | 3.86 | 3.67 | 3.67 | 3.45 |
| 1SC-06 | 10 | 3/8 | -6 | 9.3 | 10.1 | 12.7 | 14.5 | 16.9 | 18 | 2610 | 36 | 5220 | 72 | 10440 | 3.54 | 90 | 0.19 | 150000 | FR78-06 | 18.6 | FR79-06 | 19 | 6.78 | 6.42 | 6.42 | 6.13 |
| 1SC-08 | 12.5 | 1/2 | -8 | 12.3 | 13.5 | 15.9 | 18.1 | 20.4 | 16 | 2320 | 32 | 4640 | 64 | 9280 | 5.12 | 130 | 0.23 | 150000 | FR78-08 | 22.7 | FR79-08 | 23.3 | 9.21 | 8.86 | 8.86 | 8.40 |
| 1SC-12 | 19 | 3/4 | -12 | 18.6 | 19.8 | 23.2 | 24.4 | 26.7 | 10.5 | 1520 | 21 | 3045 | 42 | 6090 | 7.09 | 180 | 0.34 | 150000 | - | - | FR79-12 | 30.8 | 14.46 | 13.91 | 13.91 | 13.31 |

2 Wire Compact Hose, EN857- 2SC

| Part Number | Size | | | ID | | Wire Dimension | | OD | Working Pressure | | Pulse Pressure | | Burst Pressure | | Bend Radius | | Weight | Impulse Test Rate | Crimping Dimensions | Size in mm | Crimping Dimensions | Size in mm | Tail ID Top Tolerance | Tail ID Bottom Tolerance | Crimped No Go | Crimped Go |
|-------------|------|------|-----|------|------|----------------|------|------|------------------|------|----------------|-------|----------------|-------|-------------|------|--------|-------------------|---------------------|------------|---------------------|------------|-----------------------|--------------------------|---------------|------------|
| | mm | inch | SAE | min | max | min | max | | max | Mpa | psi | Mpa | psi | Mpa | psi | Inch | | | | | | | | | | |
| 2SC-04 | 6.3 | 1/4 | -4 | 6.1 | 6.9 | 10.6 | 11.7 | 14.2 | 40 | 5800 | 80 | 11600 | 160 | 23200 | 2.95 | 75 | 0.30 | 200000 | FT2-12-04CF | 18.2 | F2SC-04 | 17.6 | 3.86 | 3.67 | 3.67 | 3.45 |
| 2SC-06 | 10 | 3/8 | -6 | 9.3 | 10.1 | 14.4 | 15.6 | 18.3 | 33 | 4785 | 66 | 9570 | 132 | 19140 | 3.54 | 90 | 0.42 | 200000 | FT2-12-06CF | 19 | F2SC-06 | 20.5 | 5.29 | 5.11 | 5.11 | 4.91 |
| 2SC-08 | 12.5 | 1/2 | -8 | 12.3 | 13.5 | 17.5 | 19.1 | 21.5 | 27.5 | 3990 | 55 | 7975 | 110 | 15950 | 5.12 | 130 | 0.54 | 200000 | FT2-12-08CF | 20.6 | F2SC-08 | 24.7 | 6.78 | 6.42 | 6.42 | 6.13 |
| 2SC-12 | 19 | 3/4 | -12 | 18.5 | 19.7 | 24.5 | 26.3 | 28.5 | 21.4 | 3120 | 43 | 6235 | 86 | 12470 | 7.86 | 200 | 0.80 | 200000 | - | 23.4 | F2SC-12 | 31.5 | 9.20 | 8.86 | 8.86 | 8.40 |
| 2SC-16 | 25 | 1 | -16 | 25.0 | 26.4 | 32.5 | 34.3 | 36.6 | 16.5 | 2390 | 33 | 4785 | 66 | 9570 | 9.84 | 250 | 1.15 | 200000 | - | - | F2SC-16 | 39 | 18.89 | 18.29 | 18.29 | 17.68 |

Multi Spiral Hydraulic Hose, SAE100 R13

| Part Number | Size | | | ID | | Wire Dimension | | OD | | Working Pressure | | Pulse Pressure | | Burst Pressure | | Bend Radius | | Weight | Impulse Test Rate | Crimping Dimensions | Size in mm | Tail ID Top Tolerance | Tail ID Bottom Tolerance | Skive Length in mm | | Crimped No Go | Crimped Go |
|-------------|------|-------|-----|------|------|----------------|------|------|------|------------------|------|----------------|-------|----------------|-------|-------------|-----|--------|-------------------|---------------------|------------|-----------------------|--------------------------|--------------------|----------|---------------|------------|
| | mm | inch | SAE | min | max | min | max | min | max | Mpa | psi | Mpa | psi | Mpa | psi | Inch | mm | Kg/mtr | Cycles | JMFR13 Type Ferrule | mm | mm | mm | mm | Internal | External | mm |
| 100R13AT-12 | 19 | 3/4 | -12 | 18.6 | 19.8 | 28.2 | 29.8 | 31.0 | 33.2 | 35 | 5075 | 70 | 10150 | 140 | 20300 | 9.45 | 240 | 2.10 | 500000 | JMFR13-12CF | 33.7 | 14.46 | 13.91 | 16 | 43 | 13.91 | 13.31 |
| 100R13AT-16 | 25 | 1 | -16 | 25.0 | 26.4 | 34.9 | 36.4 | 37.6 | 39.8 | 35 | 5075 | 70 | 10150 | 140 | 20300 | 11.81 | 300 | 2.88 | 500000 | JMFR13-16CF | 41.5 | 18.89 | 18.29 | 18 | 59 | 18.29 | 17.68 |
| 100R13AT-20 | 31.5 | 1.1/4 | -20 | 31.4 | 33.0 | 45.6 | 48.0 | 48.3 | 51.3 | 35 | 5075 | 70 | 10150 | 140 | 20300 | 16.54 | 420 | 4.20 | 500000 | JMFR13-20CF | 52.8 | 25.40 | 24.69 | 21 | 68 | 24.69 | 23.80 |
| 100R13AT-24 | 38 | 1.1/2 | -24 | 37.7 | 39.3 | 53.1 | 55.5 | 55.8 | 58.8 | 35 | 5075 | 70 | 10150 | 140 | 20300 | 19.69 | 500 | 5.00 | 500000 | JMFR13-24CF | 60.5 | 31.40 | 30.60 | 23 | 76 | 30.60 | 29.80 |
| 100R13AT-32 | 51 | 2 | -32 | 50.4 | 52.0 | 66.9 | 69.3 | 69.5 | 72.7 | 35 | 5075 | 70 | 10150 | 140 | 20300 | 25.20 | 640 | 7.00 | 500000 | JMFR13-32CF | 77.9 | 41.40 | 40.60 | 28 | 80 | 40.60 | 30.80 |

Multi Spiral Hydraulic Hose, SAE100 R15

| Part Number | Size | | | ID | | Wire Dimension | | OD | | Working Pressure | | Pulse Pressure | | Burst Pressure | | Bend Radius | | Weight | Impulse Test Rate | Crimping Dimensions | Size in mm | Tail ID Top Tolerance | Tail ID Bottom Tolerance | Skive Length in mm | | Crimped No Go | Crimped Go | |
|-------------|------|-------|-----|------|------|----------------|------|------|------|------------------|------|----------------|-------|----------------|-------|-------------|-----|--------|-------------------|---------------------|------------|-----------------------|--------------------------|--------------------|----------|---------------|------------|----|
| | mm | inch | SAE | min | max | max | max | max | max | Mpa | psi | Mpa | psi | Mpa | psi | Inch | mm | Kg/mtr | Cycles | JMFR13 Type Ferrule | mm | mm | mm | mm | Internal | External | mm | mm |
| 100R15AT-06 | 10 | 3/8 | -6 | 9.3 | 10.1 | 20.3 | 23.3 | 23.3 | 23.3 | 42 | 6090 | 84 | 12180 | 168 | 24360 | 5.91 | 150 | 0.80 | 500000 | - | - | - | - | - | - | - | - | - |
| 100R15AT-08 | 12.5 | 1/2 | -8 | 12.3 | 13.5 | 24.0 | 26.8 | 26.8 | 26.8 | 42 | 6090 | 84 | 12180 | 168 | 24360 | 7.87 | 200 | 0.95 | 500000 | - | - | - | - | - | - | - | - | - |
| 100R15AT-12 | 19 | 3/4 | -12 | 18.6 | 19.8 | 32.9 | 36.1 | 36.1 | 36.1 | 42 | 6090 | 84 | 12180 | 168 | 24360 | 10.40 | 265 | 1.85 | 500000 | JMFR13-12CF | 33.1 | 14.46 | 13.91 | 16 | 43 | 13.91 | 13.31 | |
| 100R15AT-16 | 25 | 1 | -16 | 25.0 | 26.4 | 38.9 | 42.9 | 42.9 | 42.9 | 42 | 6090 | 84 | 12180 | 168 | 24360 | 13.00 | 330 | 2.90 | 500000 | JMFR13-16CF | 41.0 | 18.89 | 18.29 | 18 | 59 | 18.29 | 17.68 | |
| 100R15AT-20 | 31.5 | 1.1/4 | -20 | 31.4 | 33.0 | 48.4 | 51.5 | 51.5 | 51.5 | 42 | 6090 | 84 | 12180 | 168 | 24360 | 17.52 | 445 | 4.20 | 500000 | JMFR13-20CF | 53.7 | 25.40 | 24.69 | 21 | 68 | 24.69 | 23.80 | |
| 100R15AT-24 | 38 | 1.1/2 | -24 | 37.7 | 39.3 | 56.3 | 59.6 | 59.6 | 59.6 | 42 | 6090 | 84 | 12180 | 168 | 24360 | 20.87 | 530 | 5.60 | 500000 | JMFR13-24CF | 61.2 | 31.40 | 30.60 | 23 | 76 | 30.60 | 29.8 | |

Hydraulic Hose, SAE 100 R17

| Part Number | Size | | | ID | | Wire Dimension | | OD | | Working Pressure | | Pulse Pressure | | Burst Pressure | | Bend Radius | | Weight | Impulse Test Rate | Crimping Dimensions | Size in mm | Crimping Dimensions | Size in mm | Tail ID Top Tolerance | Tail ID Bottom Tolerance | Crimped No Go | Crimped Go |
|-------------|------|------|-----|------|------|----------------|------|------|------|------------------|------|----------------|------|----------------|-------|-------------|-----|--------|-------------------|-----------------------|-----------------------|---------------------|------------|-----------------------|--------------------------|---------------|------------|
| | mm | inch | SAE | min | max | max | max | max | max | Mpa | psi | Mpa | psi | Mpa | psi | Inch | mm | Kg/mtr | Cycles | FT1 -FT2 Type Ferrule | FR79/FT3 Type Ferrule | mm | mm | mm | mm | mm | mm |
| 100R17-04 | 6.3 | 1/4 | -4 | 6.2 | 7.0 | 11.0 | 13.2 | 13.2 | 13.2 | 21 | 3045 | 42 | 6090 | 84 | 12180 | 1.97 | 50 | 0.169 | 200000 | FT2-12-04CF | FR79-04 | 18.5 | 14.7 | 3.86 | 3.67 | 3.67 | 3.45 |
| 100R17-05 | 8 | 5/16 | -5 | 7.7 | 8.5 | 13.0 | 15.0 | 15.0 | 15.0 | 21 | 3045 | 42 | 6090 | 84 | 12180 | 2.17 | 55 | 0.210 | 200000 | FT2-12-05CF | FR79-05 | 19.5 | 16.8 | 5.29 | 5.11 | 5.11 | 4.91 |
| 100R17-06 | 10 | 3/8 | -6 | 9.3 | 10.1 | 15.0 | 17.0 | 17.0 | 17.0 | 21 | 3045 | 42 | 6090 | 84 | 12180 | 2.56 | 65 | 0.254 | 200000 | FT2-12-06CF | FR79-06 | 21.5 | 19.4 | 6.78 | 6.42 | 6.42 | 6.13 |
| 100R17-08 | 12.5 | 1/2 | -8 | 12.3 | 13.5 | 18.8 | 21.1 | 21.1 | 21.1 | 21 | 3045 | 42 | 6090 | 84 | 12180 | 3.54 | 90 | 0.466 | 200000 | FT2-12-08CF | FT3-12-08CF | 24.4 | 23.5 | 9.21 | 8.86 | 8.86 | 8.40 |
| 100R17-10 | 16 | 5/8 | -10 | 15.5 | 16.7 | 23.6 | 25.9 | 25.9 | 25.9 | 21 | 3045 | 42 | 6090 | 84 | 12180 | 3.94 | 105 | 0.586 | 200000 | FT2-12-10CF | FT3-12-10CF | 28 | 29 | 12.09 | 11.59 | 11.59 | 10.99 |
| 100R17-12 | 19 | 3/4 | -12 | 18.6 | 19.8 | 27.7 | 30.3 | 30.3 | 30.3 | 21 | 3045 | 42 | 6090 | 84 | 12180 | 4.72 | 125 | 0.749 | 200000 | FT2-12-12CF | FT3-12-12CF | 32 | 32.7 | 14.46 | 13.91 | 13.91 | 13.31 |
| 100R17-16 | 25 | 1 | -16 | 25.0 | 26.4 | 35.6 | 38.6 | 38.6 | 38.6 | 21 | 3045 | 42 | 6090 | 84 | 12180 | 5.91 | 150 | 1.457 | 200000 | FT2-12-16CF | FT3-12-16CF | 40.2 | 41 | 18.89 | 18.29 | 18.29 | 17.68 |

Hydraulic Hose, MSHA R2AT

| Part Number | Size | | | ID | | Wire Dimension | | OD | 2SN | Working Pressure | | Pulse Pressure | | Burst Pressure | | Bend Radius | | Weight | Impulse Test Rate | Crimping Dimensions | Size in mm | Crimping Dimensions | Size in mm | Tail ID Top Tolerance | Tail ID Bottom Tolerance | Crimped No Go | Crimped Go |
|-------------|------|-------|-----|------|------|----------------|------|------|------|------------------|------|----------------|-----|----------------|-------|-------------|------|--------|-------------------|---------------------|-------------|---------------------|------------|-----------------------|--------------------------|---------------|------------|
| | mm | inch | SAE | min | max | min | max | | | max | Mpa | psi | Mpa | psi | Mpa | psi | Inch | | | | | | | | | | |
| MSHAR2AT-04 | 6.3 | 1/4 | -4 | 6.2 | 7.0 | 12.1 | 13.3 | 15.7 | 40 | 5800 | 80 | 11600 | 160 | 23200 | 3.94 | 10 | 0.36 | 200000 | FT2-12-04CF | 18.5 | FT3-12-04CF | 19.1 | 3.86 | 3.67 | 3.67 | 3.45 | |
| MSHAR2AT-06 | 10 | 3/8 | -6 | 9.3 | 10.1 | 16.1 | 17.3 | 19.7 | 33 | 4785 | 66 | 9570 | 132 | 19140 | 5.12 | 130 | 0.54 | 200000 | FT2-12-06CF | 22.25 | FT3-12-06CF | 22 | 6.78 | 6.42 | 6.42 | 6.13 | |
| MSHAR2AT-08 | 12.5 | 1/2 | -8 | 12.3 | 13.5 | 19.0 | 20.6 | 23.0 | 27.5 | 3990 | 55 | 7975 | 110 | 15950 | 7.09 | 180 | 0.68 | 200000 | FT2-12-08CF | 24.4 | FT3-12-08CF | 24.5 | 9.21 | 8.86 | 8.86 | 8.40 | |
| MSHAR2AT-12 | 19 | 3/4 | -12 | 18.6 | 19.8 | 26.2 | 27.8 | 30.1 | 21.5 | 3120 | 43 | 6235 | 85 | 12325 | 9.45 | 240 | 0.94 | 200000 | FT2-12-12CF | 32 | FT3-12-12CF | 32 | 14.46 | 13.91 | 13.91 | 13.31 | |
| MSHAR2AT-16 | 25 | 1 | -16 | 25.0 | 26.4 | 34.1 | 35.7 | 38.9 | 16.5 | 2390 | 32.5 | 4710 | 65 | 9425 | 11.81 | 300 | 1.35 | 200000 | FT2-12-16CF | 40.2 | FT3-12-16CF | 41 | 18.89 | 18.29 | 18.29 | 17.68 | |
| MSHAR2AT-20 | 31.5 | 1.1/4 | -20 | 31.4 | 33.0 | 43.3 | 45.7 | 49.5 | 12.5 | 1810 | 25 | 3625 | 50 | 7250 | 16.54 | 420 | 2.15 | 200000 | FT2-12-20CF | 50 | FT3-12-20CF | 51.5 | 25.40 | 24.69 | 24.69 | 23.8 | |
| MSHAR2AT-24 | 38 | 1.1/2 | -24 | 37.7 | 39.3 | 49.6 | 52.0 | 55.9 | 9 | 1305 | 18 | 2310 | 36 | 5220 | 19.69 | 500 | 2.65 | 200000 | FT2-12-24CF | 59.5 | FT3-12-24CF | 59.7 | 31.40 | 30.60 | 30.60 | 29.80 | |
| MSHAR2AT-32 | 51 | 2 | -32 | 50.4 | 52.0 | 62.3 | 64.7 | 68.6 | 8 | 1160 | 16 | 2320 | 32 | 4640 | 24.80 | 630 | 3.42 | 200000 | FT2-12-32CF | 72.3 | FT3-12-32CF | 73.4 | 41.40 | 40.60 | 40.60 | 30.80 | |

Hydraulic Thermoplastic Hose, SAE 100 R7

| Part Number | Size | | | ID | | OD | Working Pressure | | Burst Pressure | | Bend Radius | Weight | Crimping Dimensions | Size in mm | Tail ID Top Tolerance | Tail ID Bottom Tolerance | Crimped No Go | Crimped Go |
|-------------|------|------|-----|------|------|------|------------------|------|----------------|-------|-------------|--------|---------------------|------------|-----------------------|--------------------------|---------------|------------|
| | mm | inch | SAE | min | max | max | Mpa | psi | Mpa | psi | mm | Kg/mtr | FR79 Type Ferrule | mm | mm | mm | mm | |
| 100R7-03 | 5 | 3/16 | -3 | 4.6 | 5.4 | 11.4 | 21.0 | 3045 | 84 | 12180 | 90 | 0.073 | FR79-03 | 12.25 | – | – | – | – |
| 100R7-04 | 6.3 | 1/4 | -4 | 6.2 | 7.0 | 13.7 | 19.2 | 2784 | 77 | 11165 | 100 | 0.090 | FR79-04 | 14.7 | 3.86 | 3.67 | 3.67 | 3.45 |
| 100R7-05 | 8 | 5/16 | -5 | 7.7 | 8.5 | 15.6 | 17.5 | 2538 | 70 | 10150 | 115 | 0.128 | FR79-05 | 17 | 5.29 | 5.11 | 5.11 | 4.91 |
| 100R7-06 | 10 | 3/8 | -6 | 9.3 | 10.3 | 18.4 | 15.7 | 2277 | 63 | 9135 | 125 | 0.155 | FR79-06 | 19.4 | 6.78 | 6.42 | 6.42 | 6.13 |
| 100R7-08 | 12.5 | 1/2 | -8 | 12.3 | 13.5 | 22.5 | 14.0 | 2030 | 56 | 8120 | 180 | 0.224 | FR79-08 | 23.8 | 9.21 | 8.86 | 8.86 | 8.40 |

Hydraulic Thermoplastic Hose, SAE 100 R8

| Part Number | Size | | | ID | | OD | Working Pressure | | Burst Pressure | | Bend Radius | Weight | Crimping Dimensions | Size in mm | Tail ID Top Tolerance | Tail ID Bottom Tolerance | Crimped No Go | Crimped Go |
|-------------|------|------|-----|------|------|------|------------------|------|----------------|-------|-------------|--------|---------------------|------------|-----------------------|--------------------------|---------------|------------|
| | mm | inch | SAE | min | max | max | Mpa | psi | Mpa | psi | mm | Kg/mtr | FR79 Type Ferrule | mm | mm | mm | mm | |
| 100R8-04 | 6.3 | 1/4 | -4 | 6.2 | 7 | 16.8 | 35 | 5075 | 140 | 20300 | 100 | 0.097 | FR79-04 | 14.5 | 3.86 | 3.67 | 3.67 | 3.45 |
| 100R8-05 | 8 | 5/16 | -5 | 7.7 | 8.5 | – | – | – | – | – | – | – | FR79-05 | 16.7 | 5.29 | 5.11 | 5.11 | 4.91 |
| 100R8-06 | 10 | 3/8 | -6 | 9.3 | 10.3 | 20.3 | 28 | 4060 | 112 | 16240 | 125 | 0.178 | FR79-06 | 18.6 | 6.78 | 6.42 | 6.42 | 6.13 |
| 100R8-08 | 12.5 | 1/2 | -8 | 12.3 | 13.5 | 24.6 | 24.5 | 3553 | 98 | 14210 | 180 | 0.216 | FR79-08 | 22.5 | 9.21 | 8.86 | 8.86 | 8.40 |

Smooth Bore PTFE Hose

| Part Number | Size | | | ID | | OD | Working Pressure | | Burst Pressure | | Bend Radius | Weight | Crimping Dimensions | Size in mm | Tail ID Top Tolerance | Tail ID Bottom Tolerance | Crimped No Go | Crimped Go |
|-------------|------|------|-----|------|------|------|------------------|--------|----------------|--------|-------------|--------|---------------------|------------|-----------------------|--------------------------|---------------|------------|
| | mm | inch | SAE | min | max | max | Mpa | psi | Mpa | psi | mm | Kg/mtr | PTFEF Type Ferrule | mm | mm | mm | mm | |
| SSPTFE-03 | 4.8 | 3/16 | -3 | 4.8 | 5 | 7.7 | 24 | 3480 | 57 | 8265 | 50 | 0.090 | PTFEF-03 | 10.9 | – | – | – | – |
| SSPTFE-04 | 6.0 | 1/4 | -4 | 6 | 6.4 | 8.8 | 23.2 | 3364 | 55.2 | 8004 | 75 | 0.110 | PTFEF-04 | 12 | 3.86 | 3.67 | 3.67 | 3.45 |
| SSPTFE-05 | 7.9 | 5/16 | -5 | 7.9 | 8.2 | 10.8 | 19.4 | 2813 | 54 | 7830 | 100 | 0.135 | PTFEF-05 | 12.8 | 5.29 | 5.11 | 5.11 | 4.91 |
| SSPTFE-06 | 9.5 | 3/8 | -6 | 9.7 | 10 | 12.4 | 16.2 | 2349 | 45 | 6525 | 125 | 0.165 | PTFEF-06 | 15.9 | 6.78 | 6.42 | 6.42 | 6.13 |
| SSPTFE-08 | 12.7 | 1/2 | -8 | 12.7 | 13 | 15.9 | 13.9 | 2015.5 | 42.5 | 6162.5 | 165 | 0.230 | PTFEF-08 | 20.8 | 9.21 | 8.86 | 8.86 | 8.40 |
| SSPTFE-12 | 19.0 | 3/4 | -12 | 19 | 19.3 | 22.3 | 9.2 | 1334 | 31.5 | 4567.5 | 230 | 0.405 | PTFEF-12 | 28 | 14.46 | 13.91 | 13.91 | 13.31 |
| SSPTFE-16 | 25.4 | 1 | -16 | 25.2 | 25.6 | 29.8 | 7.2 | 1044 | 20 | 2900 | 300 | 0.510 | PTFEF-16 | 34 | 18.89 | 18.29 | 18.29 | 17.68 |

Convuluted Bore PTFE Hose

| Part Number | Size | | | ID | | OD | Working Pressure | | Burst Pressure | | Bend Radius | Weight | Crimping Dimensions | Size in mm | Tail ID Top Tolerance | Tail ID Bottom Tolerance | Crimped No Go | Crimped Go |
|-------------|-------|------|-----|------|-------|------|------------------|--------|----------------|------|-------------|--------|---------------------|------------|-----------------------|--------------------------|---------------|------------|
| | mm | inch | SAE | min | max | max | Mpa | psi | Mpa | psi | mm | Kg/mtr | PTFEF Type Ferrule | mm | mm | mm | mm | |
| SSCPTFE-04 | 6.35 | 1/4 | -4 | 5.75 | 6.55 | 11.3 | 15.1 | 2189.5 | 45 | 6525 | 32 | 0.177 | PTFEF-04 | 12.5 | 3.86 | 3.67 | 3.67 | 3.45 |
| SSCPTFE-05 | 7.50 | 5/16 | -5 | 7.75 | 8.55 | 14.1 | 12.6 | 1827 | 37 | 5365 | 36 | 0.215 | PTFEF-05 | 13 | 5.29 | 5.11 | 5.11 | 4.91 |
| SSCPTFE-06 | 9.50 | 3/8 | -6 | 9.14 | 10.25 | 17.2 | 10.5 | 1522.5 | 31 | 4495 | 59 | 0.230 | PTFEF-06 | 16 | 6.78 | 6.42 | 6.42 | 6.13 |
| SSCPTFE-08 | 12.70 | 1/2 | -8 | 12.6 | 13.3 | 19.3 | 9 | 1305 | 25 | 3625 | 82 | 0.276 | PTFEF-08 | 20.9 | 9.21 | 8.86 | 8.86 | 8.40 |
| SSCPTFE-12 | 19.50 | 3/4 | -12 | 18.6 | 19.85 | 28.1 | 6 | 870 | 22 | 3180 | 113 | 0.570 | PTFEF-12 | 28 | 14.46 | 13.91 | 13.91 | 13.31 |
| SSCPTFE-16 | 25.40 | 1 | -16 | 24.8 | 26.16 | 37.6 | 4.7 | 681.5 | 14.4 | 2088 | 189 | 0.790 | PTFEF-16 | 33.5 | 18.89 | 18.29 | 18.29 | 17.68 |



| Part Number | Size | | | ID | | OD | Working Pressure | | Burst Pressure | | Bend Radius | | Weight | Crimping Dimensions | Size in mm | Tail ID Top Tolerance | Tail ID Bottom Tolerance | Crimped No Go | Crimped Go |
|--------------|------|--------|-----|----------|-----------|----------|------------------|-----|----------------|------|-------------|-----|--------|---------------------|------------|-----------------------|--------------------------|---------------|------------|
| | mm | Inch | SAE | Min (mm) | Max (min) | Max (mm) | Mpa | PSI | Mpa | PSI | Inch | mm | Kg/m | R4F2 Type Ferrule | mm | mm | mm | mm | |
| RBR-100R4-12 | 19 | 3/4" | -12 | 18.2 | 19.8 | 34.9 | 2.1 | 305 | 8.4 | 1210 | 4.92 | 125 | 0.92 | R4F2-12 | 38 | 14.46 | 13.91 | 13.91 | 13.31 |
| RBR-100R4-16 | 25 | 1" | -16 | 24.6 | 26.2 | 41.3 | 1.7 | 250 | 7 | 1015 | 5.91 | 150 | 1.1 | R4F2-16 | 45 | 18.89 | 18.29 | 18.29 | 17.68 |
| RBR-100R4-20 | 31.5 | 1.1/4" | -20 | 30.6 | 33 | 50.8 | 1.4 | 200 | 5.6 | 810 | 7.87 | 200 | 1.3 | R4F2-20 | 53 | 25.4 | 24.69 | 24.69 | 23.8 |
| RBR-100R4-24 | 38 | 1.1/2" | -24 | 36.9 | 39.3 | 57.2 | 1.05 | 150 | 4.2 | 610 | 10.04 | 255 | 1.8 | R4F2-24 | 59 | 31.4 | 30.6 | 30.6 | 29.8 |
| RBR-100R4-32 | 51 | 2" | -32 | 49.2 | 52.4 | 69.9 | 0.7 | 100 | 2.8 | 410 | 11.81 | 300 | 2.23 | R4F2-32 | 73 | 41.4 | 40.6 | 40.6 | 30.8 |



Certificate of Registration

This is to certify that the Management System of:

Flowtech Limited

Pimbo Road, Skelmersdale, Lancashire, WN8 9RB

has been approved by Alcumus ISOQAR and is compliant with the requirements of:

ISO 9001: 2008



Certificate Number: 012-QMS - 001
Initial Registration Date: 14 May 1992
Re-issue Date: 26 April 2016
Expiry Date: 15 September 2018

Scope of Registration:

Supplier of Fluid Power Products within the UK & ROI for the Pneumatic, Hydraulic & Industrial Sectors.

Signed:
Steve Stubley, Technical Director
(on behalf of Alcumus ISOQAR)



This certificate will remain current subject to the company maintaining its system to the required standard. This will be monitored regularly by Alcumus ISOQAR. Further clarification regarding the scope of this certificate and the applicability of the relevant standards' requirements may be obtained by consulting Alcumus ISOQAR.

U638



Flowtechnology UK

having demonstrated that they produce hose assemblies to a standard set by the BFPA have been awarded the British Fluid Power Association Seal of Approval for the production of hose assemblies.

INSPECTION DATE: 27 January 2015

VALID UNTIL: 26 January 2017

SIGNED: 



This award certifies that at the time of inspection the above company's production of hose assemblies was to the standards recommended by the BFPA but is not a quality guarantee of the hose assemblies.

IN ASSOCIATION WITH:





In Reply Refer To:
MSHA:A&CC:PAR 98670
Record File No.IC-267/1

November 30, 2010

MSHA reviewed your application for acceptance of compound number 171 for use as yellow air hose cover.

This construction and the information provided meet the requirements of the Standard Application Procedures for Acceptance of Flame-Resistant Solid Products Taken into Mines.

The following requirements apply to this acceptance:

1. Acceptance Marking No. "MSHA IC-267/1" must be permanently marked on the product with letters at least 1/4" high and at intervals not exceeding 3 feet. Other types of permanent markings may be used with prior approval of MSHA.
2. The accepted material thickness is 2 mm \pm 0.2 mm.
3. You are obligated, as the manufacturer, to maintain the quality of the product to assure the requirements of this acceptance are being met.
4. Any change in product composition or in any other factors that may affect this acceptance must not be made without prior authorization from MSHA.
5. We have the right to revoke this acceptance for cause at any time.
6. We must be notified of any transfer of production or ownership of this product.

An invoice for the cost of processing this action will be forthcoming.

If you have any comments or questions relative to this letter, please refer them to David Creamer at 304-547-2085.

Sincerely,

A handwritten signature in cursive script that reads "John P. Faini".

John P. Faini
Chief, Approval and Certification Center



In Reply Refer To:
MSHA:A&CC:PAR 98669
Record File No.IC-267

November 23, 2010

MSHA reviewed your application for acceptance of black compound number 080 for use as hydraulic hose cover.

This construction and the information provided meet the requirements of the Standard Application Procedures for Acceptance of Flame-Resistant Solid Products Taken into Mines.

The following requirements apply to this acceptance:

1. Acceptance Marking No. "MSHA IC-267" must be permanently marked on the product with letters at least 1/4" high and at intervals not exceeding 3 feet. Other types of permanent markings may be used with prior approval of MSHA.
2. The accepted material thickness is 2 mm \pm 0.2 mm.
3. You are obligated, as the manufacturer, to maintain the quality of the product to assure the requirements of this acceptance are being met.
4. Any change in product composition or in any other factors that may affect this acceptance must not be made without prior authorization from MSHA.
5. We have the right to revoke this acceptance for cause at any time.
6. We must be notified of any transfer of production or ownership of this product.

An invoice for the cost of processing this action will be forthcoming.

If you have any comments or questions relative to this letter, please refer them to David Creamer at 304-547-2085.

Sincerely,

A handwritten signature in cursive script that reads "John P. Faini".

John P. Faini
Chief, Approval and Certification Center