



MAIBERFLEX

MEDIUM - HIGH PRESSURE FLEXIBLE HOSES



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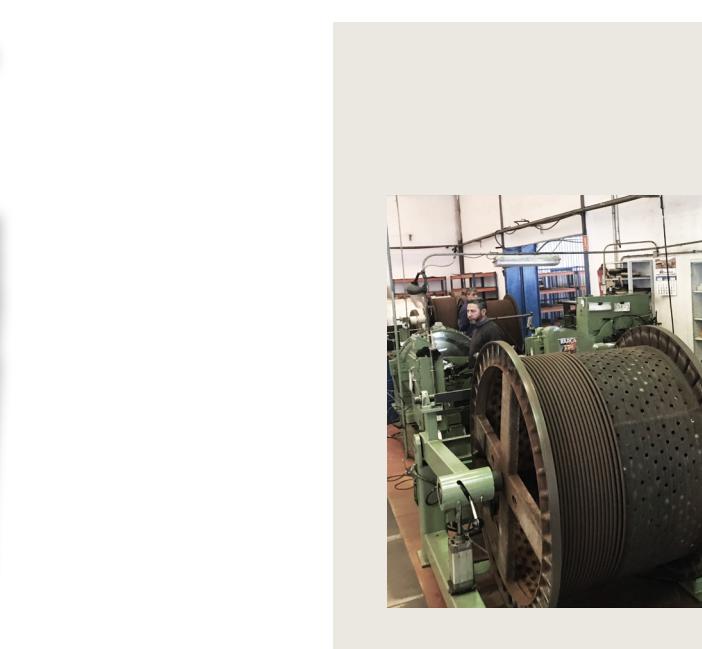
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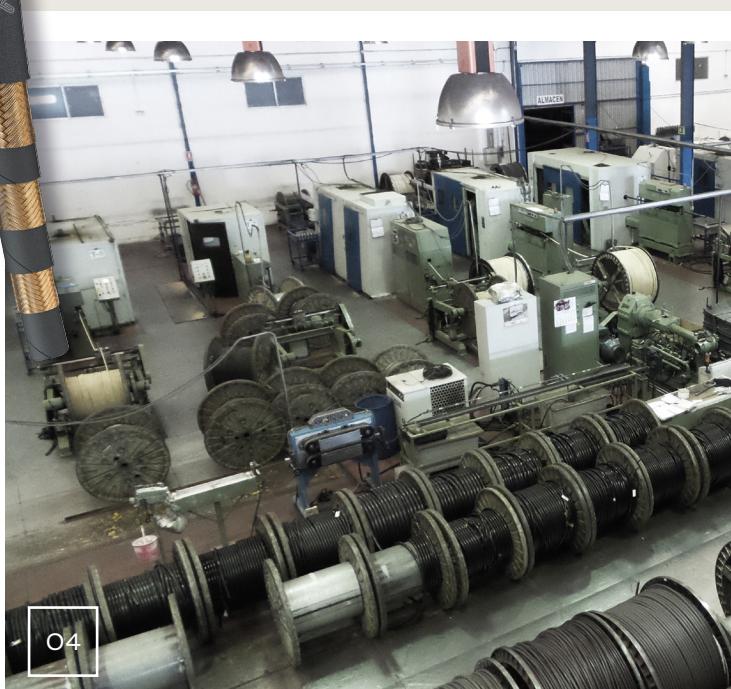
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5.000 M² WAREHOUSE - PRODUCTION

IN OUR HEADQUARTERS LOCATED IN MADRID, WE HAVE MORE THAN 5.000M² FOR STORE AND OUR MANUFACTURING PROCESSES WITH THE LATEST TECHNOLOGY.

The effort of a big human team is supported by more than 30 years of flexible hoses production. Hoses designed for every type of uses: agricultural, industry, ventilation, hydraulics, welding, naval, conditioned air and fire protection. Our customers are the best witnesses of our work.





MEDIUM & HIGH PRESSURE FLEXIBLE HOSES MANUFACTURER

OUR FACILITIES

- O1 Wrapping/
Unwrapping machine
- O2 Braiding
Machines
- O3 Mandrel
stock
- O4 General production
overview
- O5 Madrid headquarters
main front view
- O6 Production section
overview





SPAIN

MADE IN
SPAIN

The unique hydraulic flexible hoses manufacturer in Spain.



30
YEARS OF
HISTORY

And history means experience in the product manufacturing.

LEKU-ONA
GRUPO _Global Solutions

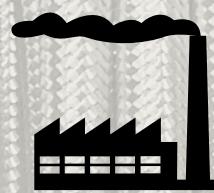
TEAM
LEKU-ONA
GROUP

The strength of a corporate group that cover different industrial areas.



ISO, UNE QUALITY STANDARDS

Materials and processes according to quality standards.



USES

MORE THAN
25 SECTORS

Agriculture, industrial, ventilation, hydraulics, welding, naval, air-brake and fire protection



25

PEOPLE STAFF
IN SERVICES

Thinking, manufacturing and improving medium and high pressure flexible hoses.

> HOW THE CORRECT HOSE IS SELECTED?

INSTALLATION TYPE

The selection and installation of a flexible hose **depends on the pressure of the circuit to connect**, working cycles, continuous or water hammer, the inner diameter of the hose and type of the fluid to use.

WORKING PRESSURE

According to the **EN, UNI ISO, DIN and SAE standards**, the recommended working pressure ratio is 1:4.

CHEMICAL RESISTANCE

The MAIBERFLEX hoses have normally **good resistance to the ozone action, solar radiation, other atmospheric agents, water and oil**. For any particular use, contact with our technical department.

WATER HAMMER

In installations where **pressure cycles rise suddenly is necessary to select a hose that can increase the safety factor**. On the other hand, a minimum value of the safety factor is enough when water hammer is soft or does not exist.

OPERATING TEMPERATURE

The specific working temperature for each hose type is the **maximum temperature for the fluid that goes through the hose** (higher temperatures can be supported by small period of time). The constant operation at maximum temperature reduces the hose life.

VOLUME EXPANSION

According to national and international standards.

EXTERNAL TEMPERATURE

Heat sources or excess cold nearby the flexible hose may damage the outer cover and the reinforcement negatively affecting the hose life.

GASEOUS FLUIDS

The hose selection for high pressure gaseous applications must be done carefully. Moreover, for chemical installations, but in this case, could have positive effects to prevent any accidental break. **It is recommended to increase the safety factor.**

> HOW TO INSTALL THE HOSE?

When the flexible hose is working at the operating pressure, its length can vary from +2% to -4%. Be careful and prevent that the length of the flexible hose is the same than the distance to fit when it is working under traction. Do not bend the hose with a smaller radius than the specified in the characteristic table, this way high fatigue and hose inner diameter reduction are avoid.

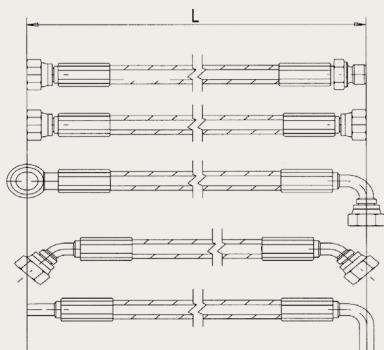
If the hose is excessively bended, can make that the hose reinforcement does not work uniformly, reducing the properties. Each installation must be done with the correct fittings in order to avoid very big or small curves achieving easy assembly maintenance. If the hose is located in a position that could be in contact with metallic parts or friction, protect it with a plastic or metallic protection.

The MAIBERFLEX flexible hoses must not be exposed to direct heat sources. In these cases, it is necessary to protect them with Firesafe.

> HOW TO INSTALL A HOSE?

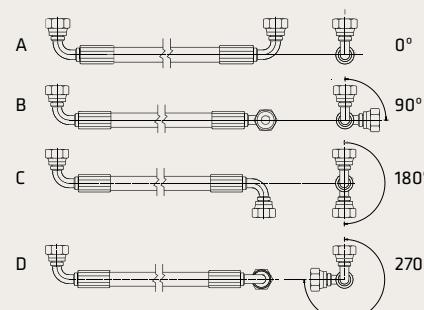
HOW TO MEASURE

In the next picture, information about the correct way to measure the hose is shown. According to DIN y SAE standards, the hose length can vary from +2% excess to -4% defect depending on the working pressure. That is why, is recommended to consider the final length evolution of the hose. Moreover, a +/-3% tolerance must be considered from the final length.



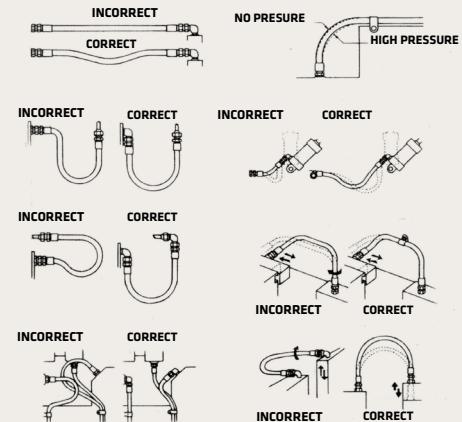
FITTING RELATIVE ANGLE

In case of 2 pointed arch hoses or elbows, the relative angle between fittings must be defined (+/-3% tolerance). The most used positions and angles are shown, in the next picture identified with four letters (**A-B-C-D**).



HOW TO INSTALL

With the objective to achieve the best performance, consider the next recommendations: **the flexible hoses must work under the theoretical pressure and bend radius limits according the specific data tables.** The hose must not support torsion and the hose length must be six times the pipe diameter at least, measure from the fittings. The fitting type must reduce the number of the curves to the minimum. In the next graphics, correct and incorrect couplings are shown.

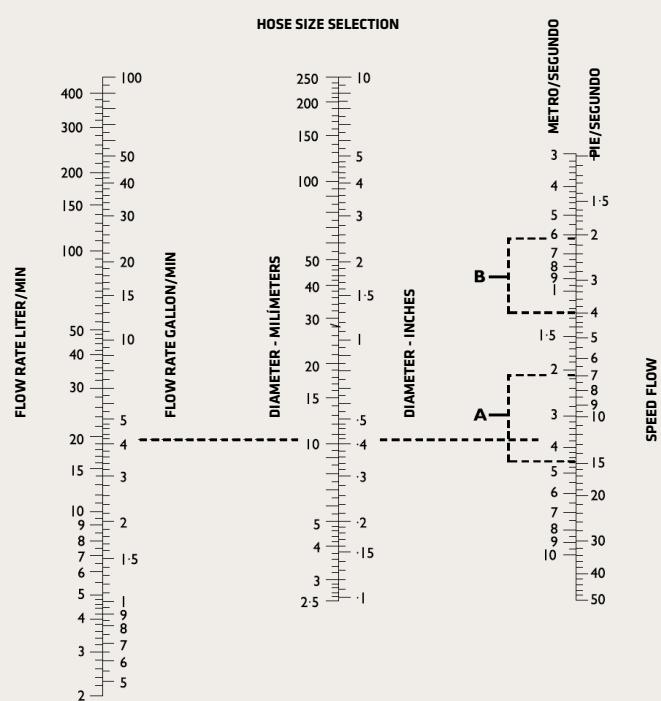


FLOW RATE

How to use the graphic: firstly define the correct flow rate for the system requirements. Secondly draw a straight line from the selected flow rate to the recommended speed. The inner diameter could be read in the intersection of the straight line and the central value column.

A: Speed range recommended for pressure lines.
B: Speed range recommended for return lines.

Example: Flow rate of the pressure line is 100 liters / minute, and the speed is 8 meters / seg., the inner diameter is 50mm.



> APPLICATIONS



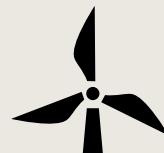
AGRICULTURAL MACHINERY
Tractors, Harvesters,
Seeders, Sprayers



NAVAL INDUSTRY
Ships, Yachts, Ferries,
Fishing vessels, Oil tankers



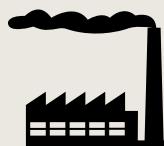
CONSTRUCTION
Cranes, Stackers,
Shears, Compressors



RENEWABLE ENERGIES
Wind systems, Solar,
Geothermal, Off-shore



PUBLIC WORKS MACHINERY
Excavators, Loaders,
Dumpers, Forklifts



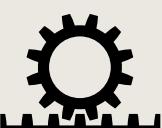
PAPER INDUSTRY
Manufacturing machinery
for paper



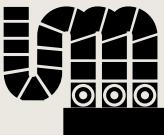
GRAPHIC ARTS
Machinery for
offset printing



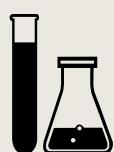
PUBLIC WORKS
Dams, Wastewater treatment
plants, Roads, Pipelines.



MACHINE TOOLS
Lathes, Milling Machines,
Presses, Machining Centres.



IRON AND STEEL
Steel Processing, Blast Furnaces,
Iron Sheets, Machinery



CHEMICAL INDUSTRY
Plastics Processing,
Paints, Fertilisers



FURNITURE
Sawing Machines,
Varnishing Machines



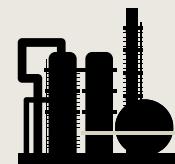
ENVIRONMENT
Industrial Systems for
Recycling, Discharges, etc.



ENGINEERING
Components and technical
support in engineering projects



AUTOMOTIVE
Trucks, Trailers,
Utility vehicles



PETROCHEMICAL
Construction plants,
Handling of crude oil and gas.

CHEMICAL RESISTANCE TABLE

✓ EXCELENT
 X UNSATISFACTORY
 ✓* EXCELENT, BUT

| NYL6: Nylon 6 PEL: Elastomer Polyester NYL11: Nylon 11 PIFE: Teflon | 1SN 2SN 4SP 4SH R12 R13 | NYL6 | PEL | NYL11 | PTFE |
|--|--|------|-----|-------|------|
| OIL ASTM NO.1 | | | ✓ | ✓ | ✓ |
| OIL ASTM NO.2 | | | ✓ | ✓ | ✓ |
| HYDRAULIC OIL | ✓ | ✓ | ✓ | ✓ | ✓ |
| BUTILE ACETATE | X | ✓ | ✓ | ✓ | ✓ |
| ACETILENE | ✓ | | ✓ | ✓ | ✓ |
| ACETONE | X | X | X | X | ✓ |
| HYDROCLORIDRIC ACID | ✓ | ✓ | ✓ | ✓ | ✓ |
| WATER | ✓* | ✓* | ✓* | ✓* | ✓ |
| AIR | ✓ | | | | |
| AIR (DRY) | ✓ | ✓* | ✓* | ✓* | ✓ |
| COMPRESSED AIRE | ✓ | | | | |
| ALCOHOL (METHANE ETHANOL) | | X | X | X | ✓ |
| LIQUID AMMONIA | | ✓ | ✓ | ✓ | ✓ |
| BENZENE | | ✓* | ✓* | ✓* | ✓ |
| BUTANE | | | | | |
| CARBONATE | | ✓ | ✓ | ✓ | ✓ |
| BEER | X | | | | |
| CHLOROFORM | ✓ | | ✓* | ✓* | ✓ |
| CARBON DIOXIDE (DRY) | | | | | |
| ETHER | | | X | ✓ | ✓ |
| BRAKE FLUID | | | | | ✓ |
| FREON 12 | | | | | ✓ |
| FUEL-OIL | | | ✓ | | ✓ |
| NATURAL GAS | X | ✓* | X | ✓* | ✓ |
| GASOLINE | ✓ | ✓ | ✓ | ✓ | ✓ |
| GLICERINE | ✓ | | ✓* | ✓* | ✓ |
| MINERAL FATS | ✓ | ✓ | ✓ | ✓ | ✓ |
| VEGETABLE FATS | ✓ | | | | |
| GASEOUS HIDROGEN | ✓ | ✓ | ✓ | ✓ | ✓ |
| AMMONIUM HYDROXIDE 25% | ✓ | | ✓ | ✓ | ✓ |
| KEROSENE | | | ✓* | ✓* | ✓ |
| OXIGEN | | ✓ | X | X | ✓ |
| LIQUID PROPANE | | | | | |
| ALKALINE SOLUTIONS 50% | | ✓ | ✓* | ✓* | ✓ |
| TOLUENE | | ✓ | ✓ | ✓* | ✓ |
| SATURATED STREAM | X | ✓ | ✓ | ✓ | ✓ |

MF - 100

ONE WIRE BRAID HOSE – MEDIUM PRESSURE



EN 853 1 ST - EXCEEDS SAE 100R 1 A

| | |
|-----------------------|--|
| DESCRIPTION: | One wire braid medium pressure hydraulic hose. |
| TUBE: | Black, oil resistant synthetic rubber. |
| COVER: | Black, oil, water and ozone resistant synthetic rubber. |
| REINFORCEMENT: | High tensile 1 steel wire braid. |
| TEMPERATURE: | -40°C to +100°C intermittently 125°C for petroleum fluids. -40°C to +70°C for water fluids. |
| APPLICATIONS: | Hydraulic systems with fluids based on petroleum, water/glycol, oils and lubricants. |

| ITEM CODE | HOSE ID | | OVER WIRE DIAMETER | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | | WEIGHT |
|------------------|------------------|------|---------------------------|------|----------------|------|---------------------------------|-------|-------------------------------|-------|-----------------------|------|---------------|
| | (in) | (mm) | (in) | (mm) | (in) | (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) | (kg/mtr) |
| MF10004 | 1/4 | 6,3 | 0,437 | 11,1 | 0,629 | 15,9 | 3260 | 225 | 13050 | 900 | 4,0 | 100 | 0,29 |
| MF10005 | 5/16 | 8,0 | 0,500 | 12,7 | 0,689 | 17,5 | 3115 | 215 | 12325 | 850 | 4,5 | 115 | 0,34 |
| MF10006 | 3/8 | 9,5 | 0,594 | 15,1 | 0,780 | 19,8 | 2610 | 180 | 10440 | 720 | 5,0 | 130 | 0,43 |
| MF10008 | 1/2 | 12,7 | 0,720 | 18,3 | 0,906 | 23,0 | 2320 | 160 | 9280 | 640 | 7,0 | 180 | 0,54 |
| MF10010 | 5/8 | 15,9 | 0,843 | 21,4 | 1,031 | 26,2 | 1885 | 130 | 7540 | 520 | 8,0 | 200 | 0,63 |
| MF10012 | 3/4 | 19,0 | 1,000 | 25,4 | 1,189 | 30,2 | 1520 | 105 | 6090 | 420 | 9,5 | 240 | 0,80 |
| MF10016 | 1 | 25,4 | 1,311 | 33,3 | 1,500 | 38,1 | 1275 | 88 | 5075 | 350 | 12,0 | 300 | 1,15 |
| MF10020 | 1 ^{1/4} | 31,8 | 1,594 | 40,5 | 1,811 | 46,0 | 910 | 63 | 3625 | 250 | 16,5 | 420 | 1,50 |
| MF10024 | 1 ^{1/2} | 38,1 | 1,843 | 46,8 | 2,063 | 52,4 | 725 | 50 | 2900 | 200 | 19,5 | 500 | 1,74 |
| MF10032 | 2 | 50,8 | 2,374 | 60,3 | 2,626 | 66,7 | 580 | 40 | 2320 | 160 | 25,0 | 630 | 2,47 |

MF - 101

ONE WIRE BRAID HOSE – MEDIUM PRESSURE



EN 853 1 SN - EXCEEDS SAE 100R 1 AT

| | |
|-----------------------|--|
| DESCRIPTION: | One wire braid medium pressure hydraulic hose. |
| TUBE: | Black, oil resistant synthetic rubber. |
| COVER: | Black, oil, water and ozone resistant synthetic rubber. |
| REINFORCEMENT: | High tensile 1 steel wire braid. |
| TEMPERATURE: | -40°C to +100°C intermittently 125°C for petroleum fluids. -40°C to +70°C for water fluids. |
| APPLICATIONS: | Hydraulic systems with fluids based on petroleum, water/glycol, oils and lubricants. |

| ITEM CODE | HOSE ID | | OVER WIRE DIAMETER | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | | WEIGHT |
|------------------|------------------|------|---------------------------|------|----------------|------|---------------------------------|-------|-------------------------------|-------|-----------------------|------|---------------|
| | (in) | (mm) | (in) | (mm) | (in) | (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) | (kg/mtr) |
| MF10103 | 3/16 | 4,3 | 0,370 | 9,4 | 0,476 | 12,1 | 3625 | 250 | 14500 | 1000 | 3,5 | 90 | 0,17 |
| MF10104 | 1/4 | 6,3 | 0,437 | 11,1 | 0,547 | 13,9 | 3260 | 225 | 13050 | 900 | 4,0 | 100 | 0,23 |
| MF10105 | 5/16 | 8,0 | 0,500 | 12,7 | 0,610 | 15,5 | 3115 | 215 | 12325 | 850 | 4,5 | 115 | 0,27 |
| MF10106 | 3/8 | 9,5 | 0,594 | 15,1 | 0,701 | 17,8 | 2610 | 180 | 10440 | 720 | 5,0 | 130 | 0,35 |
| MF10108 | 1/2 | 12,7 | 0,720 | 18,3 | 0,827 | 21,0 | 2320 | 160 | 9280 | 640 | 7,0 | 180 | 0,44 |
| MF10110 | 5/8 | 15,9 | 0,843 | 21,4 | 0,953 | 24,2 | 1885 | 130 | 7540 | 520 | 8,0 | 200 | 0,51 |
| MF10112 | 3/4 | 19,0 | 1,000 | 25,4 | 1,106 | 28,1 | 1520 | 105 | 6090 | 420 | 9,5 | 240 | 0,66 |
| MF10116 | 1 | 25,4 | 1,311 | 33,3 | 1,417 | 36,0 | 1275 | 88 | 5075 | 350 | 12,5 | 300 | 1,00 |
| MF10120 | 1 ^{1/4} | 31,8 | 1,594 | 40,5 | 1,744 | 44,3 | 910 | 63 | 3625 | 250 | 16,5 | 420 | 1,36 |
| MF10124 | 1 ^{1/2} | 38,1 | 1,843 | 46,8 | 2,012 | 51,1 | 725 | 50 | 2900 | 200 | 19,5 | 500 | 1,56 |
| MF10132 | 2 | 50,8 | 2,374 | 60,3 | 2,543 | 64,6 | 580 | 40 | 2320 | 160 | 25,0 | 630 | 2,21 |

MF - 200

TWO WIRE BRAID HOSES- MEDIUM PRESSURE



EN 853 2ST - EXCEEDS SAE 100R 2 A

| | |
|-----------------------|--|
| DESCRIPTION: | Two wire braid medium pressure hydraulic hose. |
| TUBE: | Black, oil resistant synthetic rubber. |
| COVER: | Black, oil, water and ozone resistant synthetic rubber. |
| REINFORCEMENT: | High tensile 2 steel wire braids. |
| TEMPERATURE: | -40°C to +100°C intermittently 125°C for petroleum fluids. -40°C to +70°C for water fluids. |
| APPLICATIONS: | Hydraulic systems with fluids based on petroleum, water/glycol, oils and lubricants |

| ITEM CODE | HOSE ID | | OVER WIRE DIAMETER | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | | WEIGHT |
|------------------|------------------|------|---------------------------|------|----------------|------|---------------------------------|-------|-------------------------------|-------|-----------------------|------|---------------|
| | (in) | (mm) | (in) | (mm) | (in) | (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) | (kg/mtr) |
| MF20004 | 1/4 | 6,3 | 0,500 | 12,7 | 0,689 | 17,5 | 5800 | 400 | 23200 | 1600 | 4,0 | 100 | 0,43 |
| MF20005 | 5/16 | 8,0 | 0,563 | 14,3 | 0,752 | 19,1 | 5075 | 350 | 20300 | 1400 | 4,5 | 115 | 0,49 |
| MF20006 | 3/8 | 9,5 | 0,657 | 16,7 | 0,843 | 21,4 | 4785 | 330 | 19140 | 1320 | 5,0 | 130 | 0,61 |
| MF20008 | 1/2 | 12,7 | 0,780 | 19,8 | 0,969 | 24,6 | 3985 | 275 | 15950 | 1100 | 7,0 | 180 | 0,75 |
| MF20010 | 5/8 | 15,9 | 0,906 | 23,0 | 1,094 | 27,8 | 3625 | 250 | 14500 | 1000 | 8,0 | 200 | 0,87 |
| MF20012 | 3/4 | 19,0 | 1,063 | 27,0 | 1,252 | 31,8 | 3115 | 215 | 12325 | 850 | 9,5 | 240 | 1,09 |
| MF20016 | 1 | 25,4 | 1,374 | 34,9 | 1,563 | 39,7 | 2390 | 165 | 9425 | 650 | 12,0 | 300 | 1,58 |
| MF20020 | 1 ^{1/4} | 31,8 | 1,748 | 44,4 | 2,000 | 50,8 | 1810 | 125 | 7250 | 500 | 16,5 | 420 | 2,57 |
| MF20024 | 1 ^{1/2} | 38,1 | 2,000 | 50,8 | 2,252 | 57,2 | 1305 | 90 | 5220 | 360 | 19,5 | 500 | 2,78 |
| MF20032 | 2 | 50,8 | 2,500 | 63,5 | 2,752 | 69,9 | 1160 | 80 | 4640 | 320 | 25,0 | 630 | 3,42 |

MF - 201

TWO WIRE BRAID HOSES- MEDIUM PRESSURE



EN 853 2SN - EXCEEDS SAE 100R 2 AT

| | |
|-----------------------|--|
| DESCRIPTION: | Two wire braid medium pressure hydraulic hose. |
| TUBE: | Black, oil resistant synthetic rubber. |
| COVER: | Black, oil, water and ozone resistant synthetic rubber. |
| REINFORCEMENT: | High tensile 2 steel wire braids. |
| TEMPERATURE: | -40°C to +100°C intermittently 125°C for petroleum fluids. -40°C to +70°C for water fluids. |
| APPLICATIONS: | Hydraulic systems with fluids based on petroleum, water/glycol, oils and lubricants. |

| ITEM CODE | HOSE ID | | OVER WIRE DIAMETER | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | | WEIGHT |
|------------------|------------------|------|---------------------------|------|----------------|------|---------------------------------|-------|-------------------------------|-------|-----------------------|------|---------------|
| | (in) | (mm) | (in) | (mm) | (in) | (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) | (kg/mtr) |
| MF20103 | 3/16 | 4,8 | 0,441 | 11,2 | 0,555 | 14,1 | 6000 | 415 | 24000 | 1650 | 3,5 | 90 | 0,31 |
| MF20104 | 1/4 | 6,3 | 0,500 | 12,7 | 0,618 | 15,7 | 5800 | 400 | 23200 | 1600 | 4,0 | 100 | 0,37 |
| MF20105 | 5/16 | 8,0 | 0,563 | 14,3 | 0,681 | 17,3 | 5075 | 350 | 20300 | 1400 | 4,5 | 115 | 0,42 |
| MF20106 | 3/8 | 9,5 | 0,657 | 16,7 | 0,776 | 19,7 | 4785 | 330 | 19140 | 1320 | 5,0 | 130 | 0,53 |
| MF20108 | 1/2 | 12,9 | 0,780 | 19,8 | 0,906 | 23,0 | 3985 | 275 | 15950 | 1100 | 7,0 | 180 | 0,63 |
| MF20110 | 5/8 | 15,9 | 0,906 | 23,0 | 1,035 | 26,3 | 3625 | 250 | 14500 | 1000 | 8,0 | 200 | 0,76 |
| MF20112 | 3/4 | 19,0 | 1,063 | 27,0 | 1,189 | 30,2 | 3115 | 215 | 12325 | 850 | 9,5 | 240 | 0,94 |
| MF20116 | 1 | 25,4 | 1,374 | 34,9 | 1,528 | 38,8 | 2390 | 165 | 9425 | 650 | 12,0 | 300 | 1,43 |
| MF20120 | 1 ^{1/4} | 31,8 | 1,748 | 44,4 | 1,921 | 48,8 | 1810 | 125 | 7250 | 500 | 16,5 | 420 | 2,38 |
| MF20124 | 1 ^{1/2} | 38,1 | 2,000 | 50,8 | 2,173 | 55,2 | 1305 | 90 | 5220 | 360 | 19,5 | 500 | 2,57 |
| MF20132 | 2 | 50,8 | 2,500 | 63,5 | 2,673 | 67,9 | 1160 | 80 | 4640 | 320 | 25,0 | 630 | 3,16 |

MF - 102

ONE WIRE BRAID COMPACT HOSE-MEDIUM PRESSURE



EN 857 1SC

| | |
|-----------------------|--|
| DESCRIPTION: | One wire braid medium pressure hydraulic compact hose. |
| TUBE: | Black, oil resistant synthetic rubber. |
| COVER: | Black, oil, water and ozone resistant synthetic rubber. |
| REINFORCEMENT: | High tensile 1 steel wire braid. |
| TEMPERATURE: | -40°C to +100°C intermittently 125°C for petroleum fluids. -40°C to +70°C for water fluids. |
| APPLICATIONS: | Hydraulic systems with fluids based on petroleum, water/glycol, oils and lubricants. |

| ITEM CODE | HOSE ID | | OVER WIRE DIAMETER | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | | WEIGHT |
|------------------|----------------|------|---------------------------|------|----------------|------|---------------------------------|-------|-------------------------------|-------|-----------------------|------|---------------|
| | (in) | (mm) | (in) | (mm) | (in) | (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) | (kg/mtr) |
| MF10204 | 1/4 | 6,3 | 0,402 | 10,2 | 0,500 | 12,7 | 3260 | 225 | 13050 | 900 | 2,00 | 50 | 0,20 |
| MF10205 | 5/16 | 8,0 | 0,461 | 11,7 | 0,559 | 14,2 | 3120 | 215 | 12470 | 860 | 2,25 | 55 | 0,23 |
| MF10206 | 3/8 | 9,5 | 0,535 | 13,6 | 0,634 | 16,1 | 2610 | 180 | 10440 | 720 | 2,50 | 60 | 0,28 |
| MF10208 | 1/2 | 12,7 | 0,669 | 17,0 | 0,768 | 19,5 | 2320 | 160 | 9280 | 640 | 2,75 | 80 | 0,36 |
| MF10210 | 5/8 | 15,9 | 0,803 | 20,4 | 0,902 | 22,9 | 1880 | 130 | 7540 | 520 | 3,50 | 90 | 0,46 |
| MF10212 | 3/4 | 19,0 | 0,937 | 23,8 | 1,035 | 26,3 | 1520 | 105 | 6090 | 420 | 4,00 | 100 | 0,54 |
| MF10216 | 1 | 25,4 | 1,232 | 31,3 | 1,331 | 33,8 | 1280 | 88 | 5100 | 352 | 6,50 | 160 | 0,81 |

MF - 202

TWO WIRE BRAID COMPACT HOSE-MEDIUM PRESSURE



EN 857 2SC - EXCEEDS SAE 100R16

| | |
|-----------------------|--|
| DESCRIPTION: | Two wire braid medium pressure hydraulic compact hose. |
| TUBE: | Black, oil resistant synthetic rubber. |
| COVER: | Black, oil, water and ozone resistant synthetic rubber. |
| REINFORCEMENT: | High tensile 2 steel wire braids. |
| TEMPERATURE: | -40°C to +100°C intermittently 125°C for petroleum fluids. -40°C to +70°C for water fluids. |
| APPLICATIONS: | Hydraulic systems with fluids based on petroleum, water/glycol, oils and lubricants. |

| ITEM CODE | HOSE ID | | OVER WIRE DIAMETER | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | | WEIGHT |
|------------------|----------------|------|---------------------------|------|----------------|------|---------------------------------|-------|-------------------------------|-------|-----------------------|------|---------------|
| | (in) | (mm) | (in) | (mm) | (in) | (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) | (kg/mtr) |
| MF20204 | 1/4 | 6,3 | 0,437 | 11,1 | 0,547 | 13,9 | 5800 | 400 | 23200 | 1600 | 1,5 | 45 | 0,29 |
| MF20205 | 5/16 | 8,0 | 0,500 | 12,7 | 0,610 | 15,5 | 5075 | 350 | 20300 | 1400 | 2,0 | 55 | 0,36 |
| MF20206 | 3/8 | 9,5 | 0,594 | 15,1 | 0,701 | 17,8 | 4785 | 310 | 19140 | 1320 | 2,5 | 65 | 0,44 |
| MF20208 | 1/2 | 12,7 | 0,720 | 18,3 | 0,827 | 21,0 | 3988 | 280 | 15950 | 1100 | 3,0 | 80 | 0,54 |
| MF20210 | 5/8 | 15,9 | 0,843 | 21,4 | 0,953 | 24,2 | 3625 | 250 | 14500 | 1000 | 3,5 | 90 | 0,63 |
| MF20212 | 3/4 | 19,0 | 1,000 | 25,4 | 1,106 | 28,1 | 3120 | 215 | 12470 | 860 | 5,0 | 120 | 0,77 |
| MF20216 | 1 | 25,4 | 1,311 | 33,3 | 1,417 | 36,0 | 2395 | 165 | 9570 | 660 | 6,5 | 160 | 1,15 |

MF - 900

ONE WIRE BRAID SUPER-COMPACT HOSES – MEDIUM PRESSURE



EXCEEDS EN 853 1SN

DESCRIPTION: One wire braid medium pressure super-compact hydraulic hose.
TUBE: Black, oil, water and ozone resistant synthetic rubber.
COVER: Black, oil, water and ozone resistant synthetic rubber.

REINFORCEMENT: Compact wire reinforcement
TEMPERATURE: -40°C to +100°C, max. temperature peak 120°C
APPLICATIONS: Hydraulic systems with fluids based on petroleum, water/glycol, oils and lubricants.

| ITEM CODE | HOSE ID | | REINFORCEMENT | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | | WEIGHT |
|-----------|---------|------|---------------|------|---------|------|--------------------------|-------|------------------------|-------|----------------|------|----------|
| | (in) | (mm) | (in) | (mm) | (in) | (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) | (kg/mtr) |
| MF90003 | 3/16 | 4,8 | 0,386 | 9,8 | 0,465 | 11,8 | 5440 | 375 | 21760 | 1495 | 2,953 | 75 | 0,25 |
| MF90004 | 1/4 | 6,4 | 0,457 | 11,6 | 0,551 | 14,0 | 5074 | 350 | 20360 | 1400 | 2,953 | 75 | 0,29 |
| MF90005 | 5/16 | 7,9 | 0,500 | 12,7 | 0,610 | 15,5 | 4350 | 300 | 17410 | 1200 | 3,346 | 85 | 0,33 |
| MF90006 | 3/8 | 9,5 | 0,590 | 15,0 | 0,669 | 17,0 | 4060 | 280 | 16240 | 1120 | 3,740 | 95 | 0,38 |
| MF90008 | 1/2 | 12,7 | 0,701 | 17,8 | 0,791 | 20,1 | 3480 | 240 | 13920 | 960 | 5,118 | 130 | 0,48 |
| MF90010 | 5/8 | 15,9 | 0,839 | 21,3 | 0,960 | 23,6 | 2755 | 190 | 11020 | 760 | 5,905 | 150 | 0,62 |
| MF90012 | 3/4 | 19,0 | 0,984 | 25,0 | 1,079 | 27,4 | 2250 | 155 | 9000 | 620 | 7,087 | 180 | 0,70 |
| MF90016 | 1 | 25,4 | 1,240 | 31,5 | 1,354 | 34,4 | 2030 | 140 | 8120 | 560 | 9,055 | 230 | 0,98 |

MF - 210

DOUBLE BRAID SUPER-COMPACT HOSE – MEDIUM PRESSURE



DESCRIPTION: Double braid super-compact hose.
TUBE: Synthetic rubber
COVER: Synthetic rubber outer cover
REINFORCEMENT: Compact double reinforcement made with high tenacity wire.tenacidad
TEMPERATURE: From -40°C to +100°C, max. temperature peaks 120°C
APPLICATIONS: Hydraulic systems with fluids based on petroleum, water/glycol, oils and lubricants.

EXCEEDS EN853 2SN

| ITEM CODE | HOSE ID | | REINFORCEMENT | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | | WEIGHT |
|-----------|---------|------|---------------|------|---------|------|--------------------------|-------|------------------------|-------|----------------|------|----------|
| | (in) | (mm) | (in) | (mm) | (in) | (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) | (kg/mtr) |
| MF21004 | 1/4 | 6,4 | 0,500 | 12,7 | 0,591 | 15,0 | 6525 | 450 | 26100 | 1800 | 3,543 | 90 | 0,45 |
| MF21005 | 5/16 | 7,9 | 0,563 | 14,3 | 0,654 | 16,6 | 6525 | 450 | 26100 | 1800 | 3,740 | 95 | 0,55 |
| MF21006 | 3/8 | 9,5 | 0,657 | 16,7 | 0,748 | 19,0 | 6525 | 450 | 26100 | 1800 | 3,937 | 100 | 0,60 |
| MF21008 | 1/2 | 12,7 | 0,779 | 19,8 | 0,874 | 22,2 | 6090 | 420 | 24360 | 1680 | 5,709 | 145 | 0,68 |
| MF21010 | 5/8 | 15,9 | 0,906 | 23,0 | 1,000 | 25,4 | 5800 | 400 | 23260 | 1600 | 6,496 | 165 | 0,85 |
| MF21012 | 3/4 | 19,0 | 1,063 | 27,0 | 1,154 | 29,3 | 5510 | 380 | 22040 | 1520 | 7,874 | 200 | 1,05 |
| MF21016 | 1 | 25,4 | 1,374 | 34,9 | 1,500 | 38,1 | 4060 | 280 | 16240 | 1120 | 11,024 | 280 | 1,50 |

MF - 216

TWO WIRE BRAID COMPACT HOSE – MEDIUM PRESSURE



SAE 100 R16

| | |
|-----------------------|--|
| DESCRIPTION: | Two wire braid medium pressure hydraulic compact hose. |
| TUBE: | Black, oil resistant synthetic rubber. |
| COVER: | Black, oil, water and ozone resistant synthetic rubber. |
| REINFORCEMENT: | High tensile 2 steel wire braids. |
| TEMPERATURE: | -40°C to +100°C intermittently 125°C for petroleum fluids. -40°C to +70°C for water fluids. |
| APPLICATIONS: | Hydraulic systems with fluids based on petroleum, water/glycol, oils and lubricants. |

| ITEM CODE | HOSE ID | | OVER WIRE DIAMETER | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | | WEIGHT (kg/mtr) |
|-----------|---------|------|--------------------|------|---------|------|--------------------------|-------|------------------------|-------|----------------|------|-----------------|
| | (in) | (mm) | (in) | (mm) | (in) | (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) | |
| MF21604 | 1/4 | 6,3 | 0,468 | 11,9 | 0,539 | 13,7 | 5000 | 345 | 20000 | 1380 | 2,00 | 51 | 0,27 |
| MF21605 | 5/16 | 8,0 | 0,508 | 12,9 | 0,591 | 15,0 | 4250 | 293 | 17000 | 1172 | 2,25 | 57 | 0,30 |
| MF21606 | 3/8 | 9,5 | 0,606 | 15,4 | 0,689 | 17,5 | 4000 | 276 | 16000 | 1103 | 2,50 | 64 | 0,37 |
| MF21608 | 1/2 | 12,7 | 0,713 | 18,1 | 0,811 | 20,6 | 3500 | 241 | 14000 | 964 | 3,50 | 89 | 0,46 |
| MF21610 | 5/8 | 15,9 | 0,870 | 22,1 | 0,949 | 24,1 | 2760 | 190 | 11000 | 760 | 4,00 | 102 | 0,60 |
| MF21612 | 3/4 | 19,0 | 1,008 | 25,6 | 1,098 | 27,9 | 2250 | 155 | 9000 | 620 | 4,80 | 121 | 0,78 |
| MF21616 | 1 | 25,4 | 1,276 | 32,4 | 1,362 | 34,6 | 2000 | 138 | 8000 | 552 | 6,00 | 152 | 1,01 |
| MF21620 | 11/4 | 31,8 | 1,559 | 39,6 | 1,677 | 42,6 | 1625 | 112 | 6500 | 448 | 8,26 | 210 | 1,24 |

MF - 217

TWO WIRE BRAID COMPACT HOSE – MEDIUM PRESSURE



SAE 100 R17

| | |
|-----------------------|--|
| DESCRIPTION: | Two wire braid medium pressure hydraulic compact hose. |
| TUBE: | Black, oil resistant synthetic rubber. |
| COVER: | Black, oil, water and ozone resistant synthetic rubber. |
| REINFORCEMENT: | 1 wire braid (1/4; 5/16 and 3/8) and rest 2 wirebraids. |
| TEMPERATURE: | -40°C to +100°C intermittently 125°C for petroleum fluids. -40°C to +70°C for water fluids. |
| APPLICATIONS: | Hydraulic systems with fluids based on petroleum, water/glycol, oils and lubricants. |

| ITEM CODE | HOSE ID | | OVER WIRE DIAMETER | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | | WEIGHT (kg/mtr) |
|-----------|---------|------|--------------------|------|---------|------|--------------------------|-------|------------------------|-------|----------------|------|-----------------|
| | (in) | (mm) | (in) | (mm) | (in) | (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) | |
| MF21704 | 1/4 | 6,3 | 0,402 | 10,2 | 0,48 | 12,2 | 3045 | 210 | 12180 | 840 | 2,00 | 50 | 0,18 |
| MF21705 | 5/16 | 8,0 | 0,461 | 11,7 | 0,547 | 13,9 | 3045 | 210 | 12180 | 840 | 2,16 | 55 | 0,21 |
| MF21706 | 3/8 | 9,5 | 0,543 | 13,8 | 0,622 | 15,8 | 3045 | 210 | 12180 | 840 | 2,55 | 65 | 0,31 |
| MF21708 | 1/2 | 12,7 | 0,646 | 16,4 | 0,791 | 20,1 | 3045 | 210 | 12180 | 840 | 3,54 | 90 | 0,47 |
| MF21710 | 5/8 | 15,9 | 0,870 | 22,1 | 0,941 | 23,9 | 3045 | 210 | 12180 | 840 | 4,13 | 105 | 0,51 |
| MF21712 | 3/4 | 19,0 | 1,008 | 25,6 | 1,091 | 27,7 | 3045 | 210 | 12180 | 840 | 4,91 | 125 | 0,66 |
| MF21716 | 1 | 25,4 | 1,362 | 34,6 | 1,480 | 37,6 | 3045 | 210 | 12180 | 840 | 5,90 | 150 | 1,00 |

MF - 222

TWO WIRE BRAID COMPACT HOSE – MEDIUM PRESSURE



DF 22 - EXCEEDS EN 853 2 SN

| | |
|-----------------------|--|
| DESCRIPTION: | Two wire braid medium pressure hydraulic hose. |
| TUBE: | Black, oil resistant synthetic rubber. |
| COVER: | Black, oil, water and ozone resistant synthetic rubber. |
| REINFORCEMENT: | High tensile 2 steel wire braids. |
| TEMPERATURE: | -40°C to +100°C intermittently 125°C for petroleum fluids. -40°C to +70°C for water fluids. |
| APPLICATIONS: | Hydraulic systems with fluids based on petroleum, water/glycol, oils and lubricants. |

| ITEM CODE | HOSE ID | | OVER WIRE DIAMETER | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | | WEIGHT |
|------------------|----------------|------|---------------------------|------|----------------|------|---------------------------------|-------|-------------------------------|-------|-----------------------|------|---------------|
| | (in) | (mm) | (in) | (mm) | (in) | (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) | (kg/mtr) |
| MF22206 | 3/8 | 9,5 | 0,657 | 16,7 | 0,843 | 21,4 | 5080 | 350 | 20315 | 1400 | 5,1 | 130 | 0,70 |
| MF22208 | 1/2 | 12,7 | 0,780 | 19,8 | 0,969 | 24,6 | 5005 | 345 | 20025 | 1380 | 5,9 | 150 | 0,95 |
| MF22210 | 5/8 | 15,9 | 0,909 | 23,1 | 1,094 | 27,8 | 4350 | 300 | 17410 | 1200 | 7,5 | 190 | 1,11 |
| MF22212 | 3/4 | 19,0 | 1,087 | 27,6 | 1,256 | 31,9 | 3845 | 265 | 15380 | 1060 | 9,0 | 230 | 1,38 |
| MF22216 | 1 | 25,4 | 1,378 | 35,0 | 1,567 | 39,8 | 3045 | 210 | 12190 | 840 | 11,8 | 300 | 1,93 |
| MF22220 | 11/4 | 31,8 | 1,752 | 44,5 | 2,000 | 50,8 | 2250 | 155 | 8995 | 620 | 15,0 | 380 | 2,80 |

MF - 1HT

ONE WIRE BRAID HIGH TEMPERATURE HOSE – MEDIUM PRESSURE



HIGH TEMPERATURE EXCEEDS EN853 1SN

| | |
|-----------------------|--|
| DESCRIPTION: | One wire braid medium pressure high temperature hydraulic hose. |
| TUBE: | Black, oil resistant synthetic rubber. |
| COVER: | Black, oil, water and ozone resistant synthetic rubber. |
| REINFORCEMENT: | High tensile 1 steel wire braid. |
| TEMPERATURE: | -55°C to +135°C intermittently 150°C. 120°C maximum for air. |
| APPLICATIONS: | Hydraulic systems with fluids based on petroleum, water/glycol, oils and lubricants. |

| ITEM CODE | HOSE ID | | OVER WIRE DIAMETER | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | | WEIGHT |
|------------------|----------------|------|---------------------------|------|----------------|------|---------------------------------|-------|-------------------------------|-------|-----------------------|------|---------------|
| | (in) | (mm) | (in) | (mm) | (in) | (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) | (kg/mtr) |
| MF1HT04 | 1/4 | 6,3 | 0,43 | 11,0 | 0,53 | 13,4 | 3260 | 225 | 14500 | 1000 | 3,94 | 100 | 0,24 |
| MF1HT05 | 5/16 | 8,0 | 0,50 | 12,6 | 0,59 | 15,0 | 3110 | 215 | 13050 | 900 | 4,49 | 114 | 0,28 |
| MF1HT06 | 3/8 | 9,5 | 0,59 | 15,0 | 0,68 | 17,3 | 2610 | 180 | 11600 | 800 | 5,00 | 127 | 0,34 |
| MF1HT08 | 1/2 | 12,7 | 0,71 | 18,1 | 0,81 | 20,5 | 2320 | 160 | 9860 | 680 | 7,01 | 178 | 0,44 |
| MF1HT10 | 5/8 | 15,9 | 0,84 | 21,3 | 0,93 | 23,5 | 1880 | 130 | 8700 | 600 | 7,87 | 200 | 0,51 |
| MF1HT12 | 3/4 | 19,0 | 0,99 | 25,2 | 1,09 | 27,7 | 1520 | 105 | 7250 | 500 | 9,45 | 240 | 0,65 |
| MF1HT16 | 1 | 25,4 | 1,30 | 33,1 | 1,41 | 35,8 | 1270 | 88 | 5220 | 360 | 11,81 | 300 | 0,98 |
| MF1HT20 | 11/4 | 31,8 | 1,60 | 40,6 | 1,71 | 43,5 | 940 | 65 | 5000 | 345 | 16,54 | 420 | 1,31 |
| MF1HT24 | 11/2 | 38,1 | 1,85 | 46,9 | 1,97 | 50,0 | 720 | 50 | 4200 | 290 | 19,69 | 500 | 1,55 |
| MF1HT32 | 2 | 50,8 | 2,38 | 60,4 | 2,48 | 63,1 | 580 | 40 | 3620 | 250 | 24,80 | 630 | 2,25 |

MF - 2HT

TWO WIRE BRAID HIGH TEMPERATURE HOSE – MEDIUM PRESSURE



HIGH TEMPERATURE EXCEEDS EN853 2SN

| | | | | | | | | | | |
|-----------------------|--|--|--|--|--|--|--|--|--|--|
| DESCRIPTION: | Two wire braid medium pressure high temperature hydraulic hose. | | | | | | | | | |
| TUBE: | Black, oil resistant synthetic rubber. | | | | | | | | | |
| COVER: | Black, oil, water and ozone resistant synthetic rubber. | | | | | | | | | |
| REINFORCEMENT: | High tensile 2 steel wire braids. | | | | | | | | | |
| TEMPERATURE: | -55°C to +135°C intermittently 150°C. | | | | | | | | | |
| APPLICATIONS: | 120°C maximum for air. Hydraulic systems with fluids based on petroleum, water/glycol, oils and lubricants. | | | | | | | | | |

| ITEM CODE | HOSE ID | | OVER WIRE DIAMETER | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | | WEIGHT (kg/mtr) |
|-----------|---------|------|--------------------|------|---------|------|--------------------------|-------|------------------------|-------|----------------|------|-----------------|
| | (in) | (mm) | (in) | (mm) | (in) | (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) | |
| MF2HT04 | 1/4 | 6,3 | 0,50 | 12,7 | 0,59 | 14,9 | 5800 | 400 | 25010 | 1725 | 3,94 | 100 | 0,39 |
| MF2HT05 | 5/16 | 8,0 | 0,56 | 14,3 | 0,65 | 16,5 | 5070 | 350 | 21460 | 1480 | 4,49 | 114 | 0,43 |
| MF2HT06 | 3/8 | 9,5 | 0,66 | 16,7 | 0,75 | 19,0 | 4780 | 330 | 20300 | 1400 | 5,00 | 127 | 0,54 |
| MF2HT08 | 1/2 | 12,7 | 0,78 | 19,8 | 0,87 | 22,0 | 3980 | 275 | 17400 | 1200 | 7,01 | 178 | 0,64 |
| MF2HT10 | 5/8 | 15,9 | 0,91 | 23,0 | 0,99 | 25,2 | 3620 | 250 | 14790 | 1020 | 7,87 | 200 | 0,77 |
| MF2HT12 | 3/4 | 19,0 | 1,06 | 27,0 | 1,14 | 29,0 | 3110 | 215 | 13050 | 900 | 9,45 | 240 | 0,93 |
| MF2HT16 | 1 | 25,4 | 1,37 | 34,8 | 1,46 | 37,0 | 2530 | 175 | 10150 | 700 | 11,81 | 300 | 1,36 |
| MF2HT20 | 11/4 | 31,8 | 1,74 | 44,3 | 1,85 | 47,0 | 2170 | 150 | 8700 | 600 | 16,54 | 420 | 2,03 |
| MF2HT24 | 11/2 | 38,1 | 2,00 | 50,7 | 2,10 | 53,4 | 1450 | 100 | 5940 | 410 | 19,69 | 500 | 2,28 |
| MF2HT32 | 2 | 50,8 | 2,50 | 63,5 | 2,61 | 66,2 | 1300 | 90 | 5360 | 370 | 24,80 | 630 | 3,15 |

MF - 105

ONE WIRE BRAID AND TEXTILE YARN HYDRAULIC HOSES – MEDIUM PRESSURE



SAE 100 R5

| | | | | | | | | | | |
|-----------------------|--|--|--|--|--|--|--|--|--|--|
| DESCRIPTION: | One wire braid and textile yarn medium pressure hydraulic hose. | | | | | | | | | |
| TUBE: | Black, oil resistant synthetic rubber. | | | | | | | | | |
| COVER: | Cotton yarn covered with synthetic rubber (oil, water and ozone resistant). | | | | | | | | | |
| REINFORCEMENT: | High tensile 1 steel wire braid. | | | | | | | | | |
| TEMPERATURE: | -40°C to +100°C for petroleum fluids. -40°C to +70°C for water fluids. | | | | | | | | | |
| APPLICATIONS: | Hydraulic systems with fluids based on petroleum, water/glycol, oils and lubricants. | | | | | | | | | |

| ITEM CODE | HOSE ID | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | | WEIGHT (kg/mtr) |
|-----------|---------|------|---------|-------|--------------------------|-------|------------------------|-------|----------------|------|-----------------|
| | (in) | (mm) | (in) | (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) | |
| MF10504 | 3/16 | 4,8 | 0,51 | 13,2 | 3335 | 230 | 13343 | 920 | 2,99 | 76 | 0,22 |
| MF10505 | 1/4 | 6,3 | 0,52 | 13,2 | 3002 | 207 | 12006 | 828 | 3,39 | 86 | 0,30 |
| MF10506 | 5/16 | 8,0 | 0,58 | 14,80 | 2248 | 155 | 8990 | 620 | 4,02 | 102 | 0,36 |
| MF10508 | 13/32 | 10,3 | 0,68 | 17,20 | 2001 | 138 | 8004 | 552 | 4,61 | 117 | 0,41 |
| MF10510 | 1/2 | 12,7 | 0,77 | 19,50 | 1755 | 121 | 7018 | 484 | 5,51 | 140 | 0,57 |
| MF10512 | 5/8 | 15,9 | 0,92 | 23,40 | 1494 | 103 | 5974 | 412 | 6,50 | 165 | 0,70 |
| MF10516 | 7/8 | 22,2 | 1,08 | 27,40 | 798 | 55 | 3190 | 220 | 7,36 | 187 | 0,74 |
| MF10520 | 11/8 | 28,6 | 1,24 | 31,40 | 624 | 43 | 2494 | 172 | 9,02 | 229 | 0,97 |
| MF10524 | 13/8 | 34,9 | 1,50 | 38,10 | 493 | 34 | 1972 | 136 | 10,51 | 267 | 1,13 |
| MF10532 | 113/16 | 46,0 | 1,75 | 44,50 | 348 | 24 | 1392 | 96 | 13,27 | 337 | 1,35 |

MF - 155

TWO WIRE BRAID HYDRAULIC HOSE - MEDIUM PRESSURE



| | |
|-----------------------|--|
| DESCRIPTION: | Two wire braid medium pressure reinforcement hydraulic hose. |
| TUBE: | Synthetic rubber |
| COVER: | Cotton yarn covered with synthetic rubber (oil and ozone resistant). |
| REINFORCEMENT: | High tensile 1 steel wire braid and textile yarn. |
| TEMPERATURE: | -40°C to +100°C, max. temperature peaks 120°C |
| APPLICATIONS: | Hydraulic systems with fluids based on petroleum, water/glycol, oils and lubricants. |

SAE 100 R5R PERFORMANCE

| ITEM CODE | HOSE ID | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | | WEIGHT (kg/mtr) |
|-----------|---------|------|---------|------|--------------------------|-------|------------------------|-------|----------------|------|-----------------|
| | (in) | (mm) | (in) | (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) | |
| MF15504 | 3/16 | 4,8 | 0,520 | 13,2 | 3000 | 210 | 12000 | 840 | 2,990 | 76 | 0,22 |
| MF15505 | 1/4 | 6,4 | 0,590 | 15,0 | 3000 | 210 | 12000 | 840 | 3,350 | 86 | 0,25 |
| MF15506 | 5/16 | 7,9 | 0,670 | 17,0 | 2250 | 155 | 9000 | 625 | 4,016 | 102 | 0,32 |
| MF15508 | 13/32 | 10,3 | 0,760 | 19,5 | 2000 | 140 | 8000 | 560 | 4,606 | 117 | 0,36 |
| MF15510 | 1/2 | 12,7 | 0,920 | 23,5 | 1750 | 122 | 7000 | 488 | 5,512 | 140 | 0,52 |
| MF15512 | 5/8 | 15,9 | 1,080 | 27,5 | 1500 | 105 | 6000 | 480 | 6,500 | 165 | 0,61 |
| MF15516 | 7/8 | 22,2 | 1,230 | 31,4 | 800 | 55 | 3200 | 280 | 7,362 | 187 | 0,63 |
| MF15520 | 11/8 | 28,6 | 1,500 | 38,1 | 625 | 43 | 2500 | 172 | 9,106 | 229 | 0,80 |
| MF15524 | 13/8 | 34,9 | 1,750 | 44,5 | 500 | 35 | 2000 | 140 | 10,511 | 267 | 1,10 |
| MF15532 | 13/16 | 46,0 | 2,210 | 56,4 | 350 | 24 | 1450 | 96 | 13,268 | 337 | 1,30 |

MF - 915

ONE WIRE BRAID PRESSURE-WASHER HOSES - MEDIUM PRES-



| | |
|-----------------------|--|
| DESCRIPTION: | One wire braid medium pressure hose 150°C |
| TUBE: | Black, special hot water and detergent solutions resistant synthetic rubber. |
| COVER: | Blue, punctured synthetic rubber (oil, water and ozone resistant). |
| REINFORCEMENT: | High tensile 1 steel wire braid. |
| TEMPERATURE: | -40°C to +150°C. |
| APPLICATIONS: | Medium pressure hot water cleaning applications. |

WASHER

| ITEM CODE | HOSE ID | | OVER WIRE DIAMETER | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | | WEIGHT (kg/mtr) |
|-----------|---------|------|--------------------|------|---------|------|--------------------------|-------|------------------------|-------|----------------|------|-----------------|
| | (in) | (mm) | (in) | (mm) | (in) | (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) | |
| MF91504 | 1/4 | 6,3 | 0,437 | 11,1 | 0,528 | 13,4 | 3263 | 225 | 13050 | 900 | 75 | 100 | 0,18 |
| MF91505 | 5/16 | 8,0 | 0,500 | 12,7 | 0,591 | 15,0 | 3118 | 215 | 12470 | 860 | 85 | 115 | 0,22 |
| MF91506 | 3/8 | 9,5 | 0,594 | 15,1 | 0,685 | 17,4 | 2610 | 180 | 10440 | 720 | 90 | 130 | 0,28 |
| MF91508 | 1/2 | 12,7 | 0,720 | 18,3 | 0,811 | 20,6 | 2320 | 160 | 9280 | 640 | 130 | 180 | 0,36 |

MF - 290

TWO WIRE BRAID PRESSURE-WASHER HOSES – MEDIUM PRESSURE



| | |
|-----------------------|--|
| DESCRIPTION: | Two wire braid medium pressure hose 150°C |
| TUBE: | Black, special hot water and detergent solutions resistant synthetic rubber. |
| COVER: | Blue, punctured synthetic rubber (oil, water and ozone resistant). |
| REINFORCEMENT: | High tensile 2 steel wire braids. |
| TEMPERATURE: | -40°C to +150°C. |
| APPLICATIONS: | Medium pressure hot water cleaning applications. |

WASHER/2

| ITEM CODE | HOSE ID | | OVER WIRE DIAMETER | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | | WEIGHT (kg/mtr) |
|-----------|---------|------|--------------------|------|---------|------|--------------------------|-------|------------------------|-------|----------------|------|-----------------|
| | (in) | (mm) | (in) | (mm) | (in) | (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) | |
| MF29004 | 1/4 | 6,3 | 0,500 | 12,7 | 0,590 | 15,0 | 5800 | 400 | 23200 | 1600 | 3,937 | 100 | 0,39 |
| MF29005 | 5/16 | 8,0 | 0,563 | 14,3 | 0,653 | 16,6 | 5075 | 350 | 20300 | 1400 | 4,528 | 115 | 0,43 |
| MF29006 | 3/8 | 9,5 | 0,567 | 16,7 | 0,748 | 19,0 | 4785 | 330 | 19140 | 1520 | 5,118 | 130 | 0,56 |
| MF29008 | 1/2 | 12,7 | 0,779 | 19,8 | 0,874 | 22,2 | 3988 | 275 | 15950 | 1100 | 7,087 | 180 | 0,65 |

MF - 333

THREE WIRE BRAID HOSE – HIGH PRESSURE



| | |
|-----------------------|--|
| DESCRIPTION: | Three wire braid high pressure hose. |
| TUBE: | Black, oil resistant synthetic rubber. |
| COVER: | Black, oil, water and ozone resistant synthetic rubber. |
| REINFORCEMENT: | 3 High tensile steel wire braids. |
| TEMPERATURE: | 40°C to +100°C intermittently 125°C for petroleum fluids. |
| APPLICATIONS: | -40°C to +70°C for water fluids. |
| | Hydraulic systems with fluids based on petroleum, water/glycol, oils and lubricants. |

| ITEM CODE | HOSE ID | | OVER WIRE DIAMETER | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | | WEIGHT (kg/mtr) |
|-----------|---------|------|--------------------|------|---------|------|--------------------------|-------|------------------------|-------|----------------|------|-----------------|
| | (in) | (mm) | (in) | (mm) | (in) | (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) | |
| MF33306 | 3/8 | 9,5 | 0,685 | 17,4 | 0,866 | 22,0 | 7250 | 500 | 29000 | 2000 | 4,75 | 120 | 0,81 |
| MF33308 | 1/2 | 12,7 | 0,819 | 20,8 | 0,992 | 25,2 | 6820 | 470 | 27280 | 1880 | 6,25 | 160 | 0,93 |
| MF33310 | 5/8 | 15,9 | 0,961 | 24,4 | 1,134 | 28,8 | 5920 | 410 | 23800 | 1640 | 8,25 | 210 | 1,16 |
| MF33312 | 3/4 | 19,0 | 1,110 | 28,2 | 1,280 | 32,5 | 5440 | 375 | 21760 | 1500 | 10,25 | 260 | 1,43 |
| MF33316 | 1 | 25,4 | 1,409 | 35,8 | 1,598 | 40,6 | 4350 | 300 | 17400 | 1200 | 12,25 | 310 | 1,74 |

MF - 300

FOUR WIRE BRAID HOSE – HIGH PRESSURE



EN 856 4SP

| | |
|-----------------------|---|
| DESCRIPTION: | Four wire braid high pressure hose. |
| TUBE: | Black, oil resistant synthetic rubber. |
| COVER: | Black, oil, water and ozone resistant synthetic rubber. |
| REINFORCEMENT: | 4 high tensile steel spirals. |
| TEMPERATURE: | 40°C to +100°C intermittently 125°C for petroleum fluids. -40°C to +70°C for water fluids. |
| APPLICATIONS: | Hydraulic systems with fluids based on petroleum, water/glycol, oils and lubricants. |

| ITEM CODE | HOSE ID | | OVER WIRE DIAMETER | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | | WEIGHT (kg/mtr) |
|-----------|---------|------|--------------------|------|---------|------|--------------------------|-------|------------------------|-------|----------------|------|-----------------|
| | (in) | (mm) | (in) | (mm) | (in) | (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) | |
| MF30004 | 1/4 | 6,3 | 0,579 | 14,7 | 0,705 | 17,9 | 6525 | 450 | 27840 | 1920 | 6,00 | 150 | 0,61 |
| MF30006 | 3/8 | 9,5 | 0,689 | 17,5 | 0,843 | 21,4 | 6450 | 445 | 25810 | 1780 | 7,00 | 180 | 0,76 |
| MF30008 | 1/2 | 12,7 | 0,795 | 20,2 | 0,969 | 24,6 | 6015 | 415 | 24070 | 1660 | 9,00 | 230 | 0,88 |
| MF30010 | 5/8 | 15,9 | 0,937 | 23,8 | 1,110 | 28,2 | 5075 | 350 | 20300 | 1400 | 9,75 | 250 | 1,10 |
| MF30012 | 3/4 | 19,0 | 1,110 | 28,2 | 1,268 | 32,2 | 5075 | 350 | 20300 | 1400 | 11,75 | 300 | 1,47 |
| MF30016 | 1 | 25,4 | 1,390 | 35,3 | 1,563 | 39,7 | 4060 | 280 | 16240 | 1120 | 13,25 | 340 | 1,98 |

MF - 301

FOUR WIRE BRAID HOSE – HIGH PRESSURE



EN 856 4SH

| | |
|-----------------------|---|
| DESCRIPTION: | Four wire braid high pressure hose. |
| TUBE: | Black, oil resistant synthetic rubber. |
| COVER: | Black, oil, water and ozone resistant synthetic rubber. |
| REINFORCEMENT: | 4 high tensile steel spirals. |
| TEMPERATURE: | 40°C to +100°C intermittently 125°C for petroleum fluids. -40°C to +70°C for water fluids. |
| APPLICATIONS: | Hydraulic systems with fluids based on petroleum, water/glycol, oils and lubricants. |

| ITEM CODE | HOSE ID | | OVER WIRE DIAMETER | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | | WEIGHT (kg/mtr) |
|-----------|---------|------|--------------------|------|---------|------|--------------------------|-------|------------------------|-------|----------------|------|-----------------|
| | (in) | (mm) | (in) | (mm) | (in) | (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) | |
| MF30112 | 3/4 | 19,0 | 1,118 | 28,4 | 1,268 | 32,2 | 6090 | 420 | 24360 | 1680 | 11,00 | 280 | 1,62 |
| MF30116 | 1 | 25,4 | 1,386 | 35,2 | 1,524 | 38,7 | 5510 | 380 | 22040 | 1520 | 13,25 | 340 | 2,12 |
| MF30120 | 11/4 | 31,8 | 1,650 | 41,9 | 1,791 | 45,5 | 5075 | 350 | 20300 | 1400 | 18,00 | 460 | 2,55 |
| MF30124 | 11/2 | 38,1 | 1,921 | 48,8 | 2,106 | 53,5 | 4205 | 290 | 16820 | 1160 | 22,00 | 560 | 3,26 |
| MF30132 | 2 | 50,8 | 2,488 | 63,2 | 2,681 | 68,1 | 3625 | 250 | 14500 | 1000 | 27,50 | 700 | 4,92 |

MF - 312

FOUR WIRE BRAID HOSE – HIGH PRESSURE



SAE100 R12 - EN856 R12

| | |
|-----------------------|--|
| DESCRIPTION: | Four wire braid high pressure hydraulic hose. |
| TUBE: | Black, oil resistant synthetic rubber. |
| COVER: | Grey or black, oil, water and ozone resistant synthetic rubber. |
| REINFORCEMENT: | 4 high tensile steel spirals. |
| TEMPERATURE: | -40°C to +121°C for petroleum fluids. -40°C to +70°C for water fluids. |
| APPLICATIONS: | Hydraulic systems with fluids based on petroleum, water/glycol, oils and lubricants. |

| ITEM CODE | HOSE ID | | OVER WIRE DIAMETER | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | | WEIGHT |
|------------------|----------------|------|---------------------------|------|----------------|------|---------------------------------|-------|-------------------------------|-------|-----------------------|------|---------------|
| | (in) | (mm) | (in) | (mm) | (in) | (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) | (kg/mtr) |
| MF31206 | 3/8 | 9,5 | 0,677 | 17,2 | 0,772 | 19,6 | 4000 | 276 | 16000 | 1104 | 5,0 | 130 | 0,59 |
| MF31208 | 1/2 | 12,7 | 0,815 | 20,7 | 0,909 | 23,1 | 4000 | 276 | 16000 | 1104 | 7,0 | 180 | 0,77 |
| MF31210 | 5/8 | 15,9 | 0,969 | 24,6 | 1,079 | 27,4 | 4000 | 276 | 16000 | 1104 | 8,0 | 200 | 1,04 |
| MF31212 | 3/4 | 19,0 | 1,091 | 27,7 | 1,185 | 30,1 | 4000 | 276 | 16000 | 1104 | 9,5 | 240 | 1,20 |
| MF31216 | 1 | 25,4 | 1,374 | 34,9 | 1,469 | 37,3 | 4000 | 276 | 16000 | 1104 | 12,0 | 300 | 1,79 |
| MF31220 | 11/4 | 31,8 | 1,728 | 43,9 | 1,823 | 46,3 | 3000 | 207 | 12000 | 828 | 16,5 | 420 | 2,53 |
| MF31224 | 11/2 | 38,1 | 1,984 | 50,4 | 2,079 | 52,8 | 2500 | 172 | 10000 | 688 | 20,0 | 500 | 3,05 |
| MF31232 | 2 | 50,8 | 2,504 | 63,6 | 2,583 | 65,6 | 2500 | 172 | 10000 | 688 | 25,0 | 630 | 4,19 |

MF - 313



EN856 R13 - SAE100 R13

| | |
|-----------------------|--|
| DESCRIPTION: | Four and six wire braid high pressure hydraulic hose. |
| TUBE: | Black, oil resistant synthetic rubber. |
| COVER: | Black, oil, water and ozone resistant rubber. |
| REINFORCEMENT: | 3/4" and 1: four wire braids / 11/4"; 11/2" and 2": 6 wire braids. |
| TEMPERATURE: | -40°C to +100°C intermittently 125°C for petroleum fluids. -40°C to +70°C for water fluids. |
| APPLICATIONS: | Hydraulic systems with fluids based on petroleum, water/glycol, oils and lubricants. |

| ITEM CODE | HOSE ID | | OVER WIRE DIAMETER | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | | WEIGHT |
|------------------|----------------|------|---------------------------|------|----------------|------|---------------------------------|-------|-------------------------------|-------|-----------------------|------|---------------|
| | (in) | (mm) | (in) | (mm) | (in) | (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) | (kg/mtr) |
| MF31312 | 3/4 | 19,0 | 1,142 | 29,0 | 1,264 | 32,1 | 5000 | 345 | 20000 | 1380 | 9,5 | 240 | 1,62 |
| MF31316 | 1 | 25,4 | 1,406 | 35,7 | 1,524 | 38,7 | 5000 | 345 | 20000 | 1380 | 12,0 | 300 | 2,12 |
| MF31320 | 11/4 | 31,8 | 1,843 | 46,8 | 1,961 | 49,8 | 5000 | 345 | 20000 | 1380 | 16,5 | 420 | 4,01 |
| MF31324 | 11/2 | 38,1 | 2,138 | 54,3 | 2,256 | 57,3 | 5000 | 345 | 20000 | 1380 | 20,0 | 500 | 4,99 |
| MF31332 | 2 | 50,8 | 2,681 | 68,1 | 2,799 | 71,1 | 5000 | 345 | 20000 | 1380 | 25,0 | 630 | 7,33 |

MF - 315

FOUR/SIX WIRE BRAID HOSE – HIGH PRESSURE



SAE100 R15 420 BAR

| | |
|-----------------------|--|
| DESCRIPTION: | Four and six wire braid high pressure hydraulic hose. |
| TUBE: | Black, oil resistant synthetic rubber. |
| COVER: | Black, oil, water and ozone resistant rubber. |
| REINFORCEMENT: | 3/4" and 1: 4 wire braids / 11/4"; 11/2"; 2"; 21/2" and 3": 6 wire braids. |
| TEMPERATURE: | -40°C to +121°C for petroleum fluids. -40°C to +70°C for water fluids |
| APPLICATIONS: | Hydraulic systems with fluids based on petroleum, water/glycol, oils and lubricants. |

| ITEM CODE | HOSE ID | | OVER WIRE DIAMETER | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | | WEIGHT |
|------------------|----------------|------|---------------------------|------|----------------|------|---------------------------------|-------|-------------------------------|-------|-----------------------|------|---------------|
| | (in) | (mm) | (in) | (mm) | (in) | (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) | (kg/mtr) |
| MF31512 | 3/4 | 19,0 | 1,130 | 28,7 | 1,268 | 32,2 | 6000 | 420 | 24000 | 1680 | 10,5 | 270 | 1,62 |
| MF31516 | 1 | 25,4 | 1,390 | 35,3 | 1,528 | 38,8 | 6000 | 420 | 24000 | 1680 | 13,0 | 330 | 2,18 |
| MF31520 | 11/4 | 31,8 | 1,772 | 45,0 | 1,890 | 48,0 | 6000 | 420 | 24000 | 1680 | 17,5 | 440 | 3,58 |
| MF31524 | 11/2 | 38,1 | 2,031 | 51,6 | 2,189 | 55,6 | 6000 | 420 | 24000 | 1680 | 21,0 | 530 | 4,50 |
| MF31532 | 2 | 50,8 | 2,69 | 68,4 | 2,83 | 71,9 | 6000 | 420 | 24000 | 1680 | 23,62 | 600 | 4,49 |
| MF31540 | 21/2 | 63 | 3,17 | 80,6 | 3,34 | 84,8 | 5070 | 350 | 20300 | 1400 | 31,5 | 800 | 5,45 |
| MF31548 | 3 | 76 | 3,57 | 90,8 | 3,72 | 94,6 | 3040 | 210 | 12610 | 870 | 35,43 | 900 | 5,32 |

MF - 106

TEXTIL YARN HYDRAULIC HOSE – LOW PRESSURE



EN 854 R6 - SAE 100 R6

| | |
|-----------------------|--|
| DESCRIPTION: | One textile yarn low pressure hydraulic hose. |
| TUBE: | Black, oil resistant synthetic rubber. |
| COVER: | Black, oil, water and ozone resistant synthetic rubber. |
| REINFORCEMENT: | 1 textile yarn. |
| TEMPERATURE: | -40°C to +100°C. |
| APPLICATIONS: | Hydraulic systems with fluids based on petroleum, water/glycol, oils and lubricants. |

| ITEM CODE | HOSE ID | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | | WEIGHT |
|------------------|----------------|------|----------------|------|---------------------------------|-------|-------------------------------|-------|-----------------------|------|---------------|
| | (in) | (mm) | (in) | (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) | (kg/mtr) |
| MF10604 | 1/4 | 6,3 | 0,50 | 12,7 | 406 | 28 | 1624 | 112 | 2,56 | 65 | 0,12 |
| MF10605 | 5/16 | 8,0 | 0,563 | 14,3 | 406 | 28 | 1624 | 112 | 3,15 | 80 | 0,14 |
| MF10606 | 3/8 | 9,5 | 0,626 | 15,9 | 406 | 28 | 1624 | 112 | 3,15 | 80 | 0,16 |
| MF10608 | 1/2 | 12,7 | 0,780 | 19,8 | 406 | 28 | 1624 | 112 | 3,94 | 100 | 0,23 |
| MF10610 | 5/8 | 15,9 | 0,906 | 23,0 | 348 | 24 | 1392 | 96 | 4,92 | 125 | 0,27 |
| MF10612 | 3/4 | 19,0 | 1,043 | 26,5 | 305 | 21 | 1218 | 83 | 5,91 | 150 | 0,34 |
| MF10616 | 1 | 25,4 | 1,358 | 34,5 | 131 | 9 | 522 | 36 | 6,69 | 170 | 0,54 |

MF - 103

TWO TEXTILE YARN HYDRAULIC HOSE – LOW PRESSURE



| | |
|-----------------------|---|
| DESCRIPTION: | Two textile yarn hydraulic hose. |
| TUBE: | Black, oil resistant synthetic rubber. |
| COVER: | Black, oil, water and ozone resistant synthetic rubber. |
| REINFORCEMENT: | 2 textile yarns. |
| TEMPERATURE: | -40°C to +100°C |
| APPLICATIONS: | Hydraulic systems, hydraulic fluids discharge (return), oil, fats, air and water. |

EN 854 R3 - SAE 100 R3

| ITEM CODE | HOSE ID | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | | WEIGHT |
|------------------|----------------|------|----------------|------|---------------------------------|-------|-------------------------------|-------|-----------------------|------|---------------|
| | (in) | (mm) | (in) | (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) | (kg/mtr) |
| MF10304 | 1/4 | 6,3 | 0,563 | 14,3 | 1247 | 86 | 4988 | 344 | 3,15 | 80 | 0,18 |
| MF10305 | 5/16 | 8,0 | 0,689 | 17,5 | 1204 | 83 | 4814 | 332 | 3,94 | 100 | 0,26 |
| MF10306 | 3/8 | 9,5 | 0,752 | 19,1 | 1131 | 78 | 4524 | 312 | 3,94 | 100 | 0,30 |
| MF10308 | 1/2 | 12,7 | 0,937 | 23,8 | 1000 | 69 | 4002 | 276 | 4,92 | 125 | 0,42 |
| MF10310 | 5/8 | 15,9 | 1,063 | 27,0 | 870 | 60 | 3480 | 240 | 5,51 | 140 | 0,49 |
| MF10312 | 3/4 | 19,0 | 1,252 | 31,8 | 754 | 52 | 3016 | 208 | 5,91 | 150 | 0,68 |
| MF10316 | 1 | 25,4 | 1,500 | 38,1 | 566 | 39 | 2262 | 156 | 8,07 | 205 | 0,84 |
| MF10320 | 11/4 | 31,8 | 1,752 | 44,5 | 377 | 26 | 1508 | 104 | 10,04 | 255 | 0,98 |

MF - 400

ONE TEXTILE YARN HYDRAULIC HOSE – LOW PRESSURE



| | |
|-----------------------|---|
| DESCRIPTION: | One textile yarn hydraulic hose. |
| TUBE: | Black, oil resistant synthetic rubber. |
| COVER: | Black, oil, water and ozone resistant synthetic rubber. |
| REINFORCEMENT: | 1 textile yarns. |
| TEMPERATURE: | -40°C to +100°C |
| APPLICATIONS: | Hydraulic systems, hydraulic fluids discharge (return), oil, fats, air and water. |

EN 854 1TE

| ITEM CODE | HOSE ID | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | | WEIGHT |
|------------------|----------------|------|----------------|------|---------------------------------|-------|-------------------------------|-------|-----------------------|------|---------------|
| | (in) | (mm) | (in) | (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) | (kg/mtr) |
| MF40003 | 3/16 | 4,8 | 0,425 | 10,8 | 363 | 25 | 1450 | 100 | 1,378 | 35 | 0,1 |
| MF40004 | 1/4 | 6,4 | 0,488 | 12,4 | 363 | 25 | 1450 | 100 | 1,772 | 45 | 0,11 |
| MF40005 | 5/16 | 7,9 | 0,547 | 13,9 | 290 | 20 | 1160 | 80 | 2,559 | 65 | 0,12 |
| MF40006 | 3/8 | 9,5 | 0,610 | 15,5 | 290 | 20 | 1160 | 80 | 2,953 | 75 | 0,15 |
| MF40008 | 1/2 | 12,7 | 0,736 | 18,7 | 232 | 16 | 928 | 64 | 3,543 | 90 | 0,18 |
| MF40010 | 5/8 | 15,9 | 0,902 | 22,9 | 232 | 16 | 928 | 64 | 4,528 | 115 | 0,26 |
| MF40012 | 3/4 | 19 | 1,024 | 26,0 | 174 | 12 | 696 | 48 | 5,315 | 135 | 0,31 |
| MF40016 | 1 | 25,4 | 1,315 | 33,4 | 174 | 12 | 696 | 48 | 6,496 | 165 | 0,46 |

MF - 500

ONE TEXTILE YARN HYDRAULIC HOSE – LOW PRESSURE



| | |
|-----------------------|---|
| DESCRIPTION: | One textile yarn hydraulic hose. |
| TUBE: | Black, oil resistant synthetic rubber. |
| COVER: | Black, oil, water and ozone resistant synthetic rubber. |
| REINFORCEMENT: | 1 textile yarns. |
| TEMPERATURE: | -40°C to +100°C |
| APPLICATIONS: | Hydraulic systems, hydraulic fluids discharge (return), oil, fats, air and water. |

EN 854 2TE

| ITEM CODE | HOSE ID | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | | WEIGHT |
|------------------|----------------|------|----------------|------|---------------------------------|-------|-------------------------------|-------|-----------------------|------|---------------|
| | (in) | (mm) | (in) | (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) | (kg/mtr) |
| MF50003 | 3/16 | 4,8 | 0,465 | 11,8 | 1160 | 80 | 4640 | 320 | 0,984 | 25 | 0,11 |
| MF50004 | 1/4 | 6,4 | 0,528 | 13,4 | 1088 | 75 | 4350 | 300 | 1,575 | 40 | 0,14 |
| MF50005 | 5/16 | 7,9 | 0,575 | 14,9 | 986 | 68 | 3944 | 272 | 1,969 | 50 | 0,16 |
| MF50006 | 3/8 | 9,5 | 0,650 | 16,5 | 914 | 63 | 3654 | 252 | 2,362 | 60 | 0,19 |
| MF50008 | 1/2 | 12,7 | 0,776 | 19,7 | 841 | 58 | 3364 | 232 | 2,756 | 70 | 0,24 |
| MF50010 | 5/8 | 15,9 | 0,941 | 23,9 | 725 | 50 | 2900 | 200 | 3,543 | 90 | 0,32 |
| MF50012 | 3/4 | 19,0 | 1,063 | 27,0 | 653 | 45 | 2610 | 180 | 4,331 | 110 | 0,38 |
| MF50016 | 1 | 25,4 | 1,354 | 34,4 | 580 | 40 | 2320 | 160 | 5,906 | 150 | 0,56 |

MF - 600

TWO TEXTILE YARN HYDRAULIC HOSE – MEDIUM PRESSURE



| | |
|-----------------------|---|
| DESCRIPTION: | Two textile yarn hydraulic hose. |
| TUBE: | Black, oil resistant synthetic rubber. |
| COVER: | Black, oil, water and ozone resistant synthetic rubber. |
| REINFORCEMENT: | 2 textile yarns. |
| TEMPERATURE: | -40°C to +100°C |
| APPLICATIONS: | Hydraulic systems, hydraulic fluids discharge (return), oil, fats, air and water. |

EN 854 3TE

| ITEM CODE | HOSE ID | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | | WEIGHT |
|------------------|----------------|------|----------------|------|---------------------------------|-------|-------------------------------|-------|-----------------------|------|---------------|
| | (in) | (mm) | (in) | (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) | (kg/mtr) |
| MF60003 | 3/16 | 4,8 | 0,504 | 12,8 | 2320 | 160 | 9280 | 640 | 1,575 | 40 | 0,16 |
| MF60004 | 1/4 | 6,4 | 0,567 | 14,4 | 2103 | 145 | 8410 | 580 | 1,772 | 45 | 0,19 |
| MF60005 | 5/16 | 7,9 | 0,665 | 16,9 | 1885 | 130 | 7540 | 520 | 2,165 | 55 | 0,24 |
| MF60006 | 3/8 | 9,5 | 0,728 | 18,5 | 1595 | 110 | 6380 | 440 | 2,756 | 70 | 0,27 |
| MF60008 | 1/2 | 12,7 | 0,854 | 21,7 | 1340 | 93 | 5394 | 372 | 3,346 | 85 | 0,33 |
| MF60010 | 5/8 | 15,9 | 1,020 | 25,9 | 1160 | 80 | 4640 | 320 | 4,134 | 105 | 0,43 |
| MF60012 | 3/4 | 19 | 1,142 | 29,0 | 1015 | 70 | 4060 | 280 | 5,118 | 130 | 0,50 |
| MF60016 | 1 | 25,4 | 1,417 | 36,0 | 798 | 55 | 3190 | 220 | 5,906 | 150 | 0,67 |
| MF60020 | 11/4 | 31,8 | 1,665 | 42,3 | 653 | 45 | 2610 | 180 | 7,480 | 190 | 0,83 |
| MF60024 | 11/2 | 38,1 | 1,953 | 49,6 | 580 | 40 | 2320 | 160 | 9,449 | 240 | 1,05 |

MF - 550

ONE WIRE BRAID HYDRAULIC HOSE - LOW & MEDIUM PRESSURE



| | |
|-----------------------|---|
| DESCRIPTION: | One textile yarn hydraulic hose |
| TUBE: | NBR rubber |
| COVER: | CR outer cover |
| REINFORCEMENT: | Textile (one or two grids) |
| TEMPERATURE: | -40°C to +100°C for petroleum fluids. |
| APPLICATIONS: | Hydraulic systems, hydraulic fluids discharge (return), oil, fats, air and water. |

ISO 2398

| ITEM CODE | TAMAÑO | HOSE ID | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | | WEIGHT (kg/mtr) |
|-----------|---------|---------|------|---------|------|--------------------------|-------|------------------------|-------|----------------|------|-----------------|
| | | (in) | (mm) | (in) | (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) | |
| MF55005 | 5 x 14 | 0,191 | 5 | 0,551 | 14 | 725 | 50 | 2900 | 200 | 1,575 | 40 | 0,15 |
| MF55006 | 6 x 14 | 0,236 | 6 | 0,551 | 14 | 725 | 50 | 2900 | 200 | 1,772 | 45 | 0,15 |
| MF55008 | 8 x 16 | 0,315 | 8 | 0,629 | 16 | 580 | 40 | 2320 | 160 | 1,969 | 50 | 0,21 |
| MF55010 | 10 x 19 | 0,394 | 10 | 0,748 | 19 | 580 | 40 | 2320 | 160 | 2,756 | 70 | 0,28 |
| MF55012 | 12 x 21 | 0,472 | 12 | 0,827 | 21 | 435 | 30 | 1740 | 120 | 3,150 | 80 | 0,32 |
| MF55015 | 15 x 24 | 0,590 | 15 | 0,945 | 24 | 435 | 30 | 1740 | 120 | 3,937 | 100 | 0,38 |
| MF55019 | 19 x 29 | 0,748 | 19 | 1,142 | 29 | 435 | 30 | 1740 | 120 | 6,299 | 160 | 0,45 |
| MF55025 | 25 x 38 | 0,984 | 25 | 1,496 | 38 | 365 | 25 | 1450 | 100 | 7,874 | 200 | 0,82 |
| MF55030 | 30 x 42 | 1,181 | 30 | 1,654 | 42 | 365 | 25 | 1450 | 100 | 8,661 | 220 | 0,95 |
| MF55032 | 32 x 44 | 1,260 | 32 | 1,732 | 44 | 365 | 25 | 1450 | 100 | 9,055 | 230 | 1,05 |
| MF55035 | 35 x 48 | 1,378 | 35 | 1,890 | 48 | 290 | 20 | 1160 | 80 | 9,843 | 250 | 1,18 |
| MF55040 | 40 x 56 | 1,575 | 40 | 2,205 | 56 | 290 | 20 | 1160 | 80 | 11,811 | 300 | 1,60 |
| MF55045 | 45 x 61 | 1,772 | 45 | 2,402 | 61 | 290 | 20 | 1160 | 80 | 13,780 | 350 | 1,85 |
| MF55050 | 50 x 66 | 1,969 | 50 | 2,598 | 66 | 290 | 20 | 1160 | 80 | 15,748 | 400 | 2,10 |

MF - 825

AIR CONDITIONED HYDRAULIC HOSE - MEDIUM PRESSURE



| | |
|-----------------------|---|
| DESCRIPTION: | Air conditioned hydraulic hose |
| TUBE: | Polyamide |
| COVER: | |
| REINFORCEMENT: | Textile reinforcement and CR rubber outer cover |
| TEMPERATURE: | -40°C to +150°C |
| APPLICATIONS: | This hose is compatible with gases used in automotive conditioned air circuits. |

SAE J 2064 - ISO 8066 TYPE C

| ITEM CODE | HOSE ID | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | | WEIGHT (kg/mtr) |
|-----------|---------|-----------|---------|-----------|--------------------------|-------|------------------------|-------|----------------|------|-----------------|
| | (in) | MIN. (mm) | (in) | MIN. (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) | |
| MF82503 | 3/6 | 4,8 | 0,50 | 12,7 | 510 | 35 | 2040 | 140 | 1,574 | 40 | 0,16 |
| MF82505 | 5/16 | 7,9 | 0,709 | 18,0 | 510 | 35 | 2040 | 140 | 2,756 | 70 | 0,27 |
| MF82506 | 3/8 | 10,2 | 0,866 | 22,0 | 510 | 35 | 2040 | 140 | 3,150 | 80 | 0,30 |
| MF82508 | 1/2 | 12,7 | 0,945 | 24,0 | 510 | 35 | 2040 | 140 | 3,543 | 90 | 0,45 |
| MF82510 | 5/8 | 15,9 | 1,083 | 27,5 | 510 | 35 | 2040 | 140 | 3,937 | 100 | 0,60 |

MF - 412

TWO WIRE BRAID HYDRAULIC HOSE – MEDIUM PRESSURE



DESCRIPTION: Two wire braid hydraulic medium pressure hose.

TUBE: NBR inner pipe

COVER: CR rubber outer cover

REINFORCEMENT: Double textile reinforcement.

TEMPERATURE: -40°C to +100°C, max. temperature peaks 110°C.

For air máx. 80°C punctured outer cover

Air break systems.

SAE J 1402 - AIR BRAKE

| ITEM CODE | HOSE ID | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | | WEIGHT (kg/mtr) |
|-----------|---------|------|---------|------|--------------------------|-------|------------------------|-------|----------------|------|--------------------|
| | (in) | (mm) | (in) | (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) | |
| MF41204 | 1/4 | 6,4 | 0,59 | 15,5 | 435 | 30 | 1740 | 120 | 2,992 | 76 | 0,15 |
| MF41206 | 3/8 | 9,5 | 0,748 | 19,0 | 435 | 30 | 1740 | 120 | 3,504 | 89 | 0,20 |
| MF41208 | 1/2 | 12,7 | 0,874 | 22,2 | 435 | 30 | 1740 | 120 | 4,016 | 102 | 0,25 |
| MF41210 | 5/8 | 15,9 | 1,063 | 27,0 | 435 | 30 | 1740 | 120 | 4,488 | 114 | 0,32 |
| MF41212 | 3/4 | 19,0 | 1,122 | 28,5 | 435 | 30 | 1740 | 120 | 5,906 | 150 | 0,41 |

MF - 700

TEFLON HOSE – HIGH PRESSURE



DESCRIPTION: Smooth Teflon hose with 1 stainless steel braid.
TUBE: PTFE Teflon.
COVER: Stainless steel AISI304.
TEMPERATURE: -70°C to +260°C
APPLICATIONS: Chemical products, solvents, steam...

TEFLON HOSE

| ITEM CODE | HOSE ID | | WEIGHT | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | | WEIGHT |
|-----------|---------|------|--------|------|---------|-------|--------------------------|-------|------------------------|-------|----------------|------|--------|
| | (in) | (mm) | (in) | (mm) | (in) | (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) | |
| MF70004 | 1/4 | 6,3 | 0,048 | 0,70 | 0,346 | 8,80 | 3475 | 240 | 10400 | 720 | 2,953 | 75 | 0,10 |
| MF70005 | 5/16 | 8,15 | 0,048 | 0,70 | 0,433 | 11,00 | 3400 | 235 | 10200 | 705 | 3,940 | 100 | 0,11 |
| MF70006 | 3/8 | 9,0 | 0,048 | 0,70 | 0,476 | 12,10 | 3180 | 220 | 9500 | 660 | 4,921 | 125 | 0,14 |
| MF70008 | 1/2 | 12,7 | 0,03 | 0,75 | 0,614 | 15,60 | 2320 | 160 | 6950 | 480 | 5,512 | 140 | 0,23 |
| MF70010 | 5/8 | 15,9 | 0,035 | 0,90 | 0,764 | 19,40 | 2025 | 140 | 6100 | 420 | 6,299 | 160 | 0,27 |
| MF70012 | 3/4 | 19,0 | 0,035 | 0,90 | 0,874 | 22,20 | 1665 | 115 | 4995 | 345 | 7,874 | 200 | 0,32 |
| MF70016 | 1 | 25,4 | 0,043 | 1,10 | 1,154 | 29,30 | 1010 | 70 | 3040 | 210 | 11,811 | 300 | 0,45 |

Correction table (K) for the pressure (P) as a function of temperature (T)

$$P = K \times P_{20^\circ\text{C}}$$

| T° (C) | -60 | +20 | +100 | +200 | +250 |
|--------|------|------|------|------|------|
| K | 0,95 | 1,00 | 0,75 | 0,25 | 0,10 |

MF - 705

HOSE FOR GAS - HIGH PRESSURE



DESCRIPTION:

Two wire braids reinforced smooth Teflon hose. First is made with Kevlar T956, over this a polyester layer is applied in order to avoid the Kevlar abrasion by the second braid made of stainless steel AISI304. Finally, everything is covered by Hytrel which is pricked at regular intervals to allow the escape of any diffuse gas.

TEFLON: HIGH PRESSURE FOR GAS

APPLICATIONS:

Gas cylinder loads, aerosol line loads breathing apparatus.

| ITEM CODE | HOSE ID | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | |
|-----------|---------|------|---------|-------|--------------------------|-------|------------------------|-------|----------------|-------|
| | (in) | (mm) | (in) | (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) |
| MF70504 | 1/4 | 6,35 | 0,42 | 10,67 | 8000 | 552 | 24000 | 1655 | 3000 | 76,2 |
| MF70508 | 13/32 | 10,3 | 0,545 | 13,84 | 4500 | 310 | 18000 | 1240 | 5250 | 133,4 |

MF - 710

CORRUGATED TEFLON HOSE



DESCRIPTION:

Flexible corrugated Teflon hose and stainless steel braid.

TUBE: PTFE Teflon.

COVER: Stainless steel AISI304 wire braid.

TEMPERATURE: -70°C to +260°C.

APPLICATIONS:

Chemical products, solvents, steam...

CORRUGATED TEFLON

| ITEM CODE | HOSE ID | | HOSE OD | | MAXIMUM WORKING PRESSURE | | MINIMUM BURST PRESSURE | | BENDING RADIUS | |
|-----------|---------|-------|---------|-------|--------------------------|-------|------------------------|-------|----------------|-------|
| | (in) | (mm) | (in) | (mm) | (psi) | (bar) | (psi) | (bar) | (in) | (mm) |
| MF71004 | 1/4 | 6,3 | 0,38 | 9,650 | 2500 | 172 | 517 | 7500 | 700 | 18,0 |
| MF71006 | 3/8 | 9,50 | 0,55 | 13,97 | 2000 | 138 | 414 | 6025 | 860 | 22,0 |
| MF71008 | 1/2 | 12,70 | 0,75 | 19,18 | 1500 | 103 | 310 | 4505 | 980 | 25,0 |
| MF71012 | 3/4 | 19,0 | 1 | 25,25 | 1000 | 69 | 207 | 3010 | 2520 | 64,0 |
| MF71016 | 1 | 25,40 | 1,32 | 33,65 | 675 | 46 | 138 | 2005 | 3500 | 89,0 |
| MF71020 | 11/4 | 32,0 | 1,620 | 41,22 | 500 | 34 | 103 | 1500 | 4900 | 125,0 |

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