



JK Fenner

Powered by Innovation. Driven by excellence



FLUID TRANSFER SOLUTIONS

CATALOGUE

JK Pioneer



JK ORGANISATION

Diversified Business House with over **140 Years Heritage**

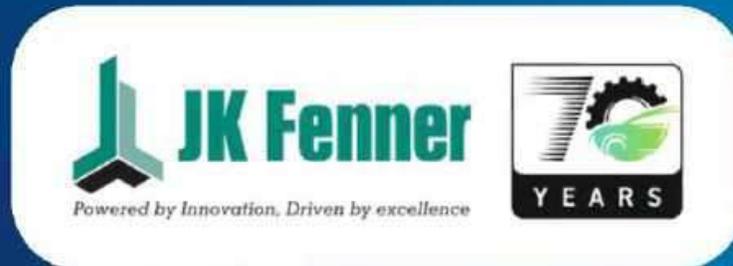
Multi-Business, Multi-Product, Multi-Location operations with **Annual Revenue \$ 5 Bn**



Group Companies aggregate more than
500,000 shareholders and employ over 40,000 people

Strong nationwide sales and service network of over
10,000 distributors and large number of retailers and service centres

Group companies are governed by
Independent Board of Directors, headed by professional Chief Executives



J.K. Fenner (India) Limited, a part of the renowned JK Organisation since 1987, is a leading provider of fluid transmission, mechanical power transmission, and sealing solutions. With **70+ years of experience**, the company has built a strong legacy in manufacturing, sales, and distribution across both **Industrial** and **Automotive segments**.

In the Industrial segment, J.K. Fenner supports a wide range of applications with an extensive portfolio that includes **Hoses, Power Transmission Belts, Gearboxes, Geared Motors, Pulleys, Oil Seals, and Moulded Rubber Products**. These solutions cater to critical industries such as **Construction & Mining, Steel, Cement, Power, Sugar, Textiles, and Agriculture, both in India and internationally**.

In the Automotive segment, the company delivers advanced solutions such as **FEAD Systems, Belt Tensioners, Oil Seals, and EV-specific components**, making it a trusted partner to leading automotive OEMs.

With operations in over **50 countries**, supported by **9 world-class manufacturing facilities** and **4 advanced R&D centres**, J.K. Fenner continues to deliver reliable, efficient, and innovative solutions. Its focus on quality, performance, and customer satisfaction has firmly established it as a market leader in **Fluid Transmission Solutions in India**, and a preferred supplier in both **industrial and automotive domains**.

JK Fenner continues to set benchmarks in performance, service, and sustainability.

OUR SUSTAINABILITY PILLARS

We at JK Fenner focus on Environment, Society, and Compliance and they form the three pillars. The LEAN tool is used for resource consumption reduction to take care of the environment, the 3R tool is used for resource management and the abatement of CO₂ emissions to reduce net GHG emissions to achieve our sustainability goals.



Resource Management

- Energy Efficiency
- Water Conservation
- Material Reduction, Recycling
- Product innovations

Green House Gas (GHG)

- Abatement
- Renewable Energy
- Emission Reductions

Pollutant Reduction

- Green Materials
- Green Technology
- Green Supply Chain
- Compliance

OUR SUSTAINABILITY INITIATIVES

At the heart of our operations lies a deep commitment to sustainability and responsible growth. We strive to minimize our environmental footprint while creating lasting value for our stakeholders. Our sustainability initiatives reflect our continuous efforts to innovate, conserve resources, and empower communities. These focus areas guide us on our journey toward a greener, more sustainable future.



SUSTAINABILITY INITIATIVES



Renewable Energy
30 years of Green Energy Leadership



Energy Efficiency
A Way of Life



Water
Being water-wise, Saving every drop



People and Community
Standing Together



GHG Management
Being Climate Conscious



Management and Compliance
Plan, Do, Check and Act



Product Sustainability and Innovation
Enhance Product Life Cycle, Green Raw Material

MANUFACTURING UNITS

9 
Plants

4 
R&D Facilities



Madurai - 1
R&D, Manufacturing
Industrial Belts and Hoses



Madurai - 2
Manufacturing
Automotive Belts and Hoses



Madurai - 3
Manufacturing
Hydraulic Hoses



Chennai (Sriperumbudur)
R&D, Manufacturing
Oil Seal



Hyderabad - 1
Manufacturing
Oil Seals and Belts



Hyderabad - 2
R&D, Manufacturing
Mechanical Products



Faridabad
Manufacturing
Hose Assembly



Bangalore
Manufacturing
Precision Machining



Salem
R&D, Manufacturing
Textiles

SEGMENTS THAT WE CATER TO

- Steel
- Cement
- Power
- Engineering
- Manufacturing
- Agriculture
- Mining
- Paper
- Sugar
- Oil and Gas
- Construction
- Machine Tool
- Original Equipment Manufacturers



DASH, DN, INCH CONVERSION TABLE

| DASH EXPRESSION | INCH SIZE | DN EXPRESSION |
|-----------------|-----------|---------------|
| -3 | 3/16 | 5 |
| -4 | 1/4 | 6 |
| -5 | 5/16 | 8 |
| -6 | 3/8 | 10 |
| -8 | 1/2 | 12 |
| -10 | 5/8 | 16 |
| -12 | 3/4 | 19 |
| -14 | 7/8 | 22 |
| -16 | 1 | 25 |
| -18 | 1-1/8 | 28/29* |
| -20 | 1-1/4 | 31 |
| -24 | 1-1/2 | 38 |
| -32 | 2 | 51 |
| -40 | 2-1/2 | 63 |
| -48 | 3 | 76 |
| -64 | 4 | 102 |

CERTIFICATIONS



Score 2019 : 99% **(By SGS)**



(By Class),
Social Audit (By TUV)



Material Compliance to
ROHS and REACH



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HOSE VISUAL INDEX

SECTION - A HYDRAULIC HOSES

EN 853 1SN



SAE 100 R1 AT

EN 853 1SN



RHINOTUFF COVER SAE 100R1 AT

EN 853 2SN



SAE 100 R2 AT

EN 853 2SN



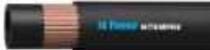
RHINOTUFF COVER SAE 100 R2 AT



SAE 100 R3



SAE 100 R6



SAE 100 R6 (HI-TEMP)

EN 857 2SC



COMPACT HOSE SAE 100 R16

EN 857 2SC



RHINOTUFF COVER COMPACT HOSE SAE 100 R16



FXFT SAE 100 R16

ISO11237



CONSTANT PRESSURE COMPACT HOSE SAE 100 R17

ISO11237

SAE 100 R17



RHINOTUFF COVER CONSTANT PRESSURE COMPACT HOSE

ISO11237

SAE 100 R19



CONSTANT PRESSURE COMPACT HOSE

ISO11237

SAE 100 R18



RHINOTUFF COVER CONSTANT PRESSURE COMPACT HOSE



JACK HOSE 1J100



AGROTROLLEY 1-WIRE HYDRAULIC HOSE



AGROTROLLEY 2-WIRE HYDRAULIC HOSE

EN857 1SC



RHINOTUFF COVER COMPACT HOSES

EN 857 1SC



COMPACT HOSE

SAE 100 R1 AT/ EN 853 ISN

1-WIRE BRAID HYDRAULIC HOSE FLAME RESISTANCE 'MSHA' COVER

Tube:

Specially compounded oil-resistant NBR (Black)

Reinforcement:

One Braid of high-tensile steel wire

Cover:

Oil and ozone resistance NBR/PVC - Black (CR cover available on request) MSHA certified.

Temperature range:

-40°C to +100°C, continuous operation. For air max temperature = +70°C

Main applications:

Medium-pressure hydraulic lines, fuel oil, antifreeze solutions, air and water. Conforms to SAE 100 R1/ EN853 ISN and ISO 1436-1 standards. Cover finish Available from 1/4" to 3/4" ID in smooth and wrap finish. Sizes from 1" to 2" will be available in wrap finish only.



| Product | Hose ID | | NOM.HOSE OD MM | WIRE BRAID OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|---------|---------|------|-------------------|---------------------|----------------------|-----|--------------------|-----|-----------------------|
| | INCH | MM | | | PSI | BAR | PSI | BAR | |
| 4 RI | 1/4 | 6.3 | 13 | 10.9 | 3250 | 225 | 13060 | 900 | 100 |
| 5 RI | 5/16 | 8.0 | 14.4 | 12.3 | 3100 | 215 | 12480 | 860 | 115 |
| 6 RI | 3/8 | 9.5 | 17.1 | 15.2 | 2600 | 180 | 10400 | 720 | 125 |
| 8 RI | 1/2 | 12.5 | 20.1 | 17.9 | 2320 | 160 | 9280 | 640 | 180 |
| 10 RI | 5/8 | 15.9 | 23.2 | 21.0 | 1885 | 130 | 7540 | 520 | 205 |
| 12 RI | 3/4 | 19.0 | 27.3 | 25.3 | 1525 | 105 | 6100 | 420 | 240 |
| 16 RI | 1 | 25.0 | 35.3 | 33 | 1275 | 88 | 5100 | 352 | 300 |
| 20 RI | 1-1/4 | 31.5 | 43.1 | 40.5 | 915 | 63 | 3660 | 248 | 420 |
| 24 RI | 1-1/2 | 38.0 | 49.2 | 46.5 | 725 | 50 | 2900 | 200 | 500 |
| 32 RI | 2 | 51.0 | 62.6 | 60 | 580 | 40 | 2320 | 160 | 630 |

RHINOTUFF COVER SAE 100R1 AT/EN 853 1SN

1-WIRE BRAID HYDRAULIC HOSE FLAME RESISTANCE 'MSHA' COVER

Tube:

Specially compounded oil-resistant NBR (Black)

Reinforcement:

One Braid of high-tensile Steel wire.

Cover:

High abrasion resistance, oil and ozone resistance synthetic rubber – MSHA certified.

Temperature range:

-40 °C to +100 °C, continuous operation. For air max Temperature = +70 °C.

Main applications:

Medium-pressure hydraulic lines, fuel oil, antifreeze solutions, air and water. Conforms to SAE100R1 / EN853 1SN and ISO 1436-1 Specifications. Cover Finish available from 1/4" to 3/4" ID in smooth and wrap finish. Sizes from 1" to 2" will be available in wrap finish only.



| Product | Hose ID | | NOM.HOSE OD MM | WIRE BRAID OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|-----------------|---------|------|-------------------|---------------------|----------------------|-----|--------------------|-----|-----------------------|
| | INCH | MM | | | PSI | BAR | PSI | BAR | |
| 4 RI Rhinotuff | 1/4 | 6.3 | 13 | 10.9 | 3250 | 225 | 13060 | 900 | 100 |
| 5 RI Rhinotuff | 5/16 | 8.0 | 14.4 | 12.3 | 3100 | 215 | 12480 | 860 | 115 |
| 6 RI Rhinotuff | 3/8 | 9.5 | 17.1 | 15.2 | 2600 | 180 | 10440 | 720 | 125 |
| 8 RI Rhinotuff | 1/2 | 12.5 | 20.1 | 17.9 | 2320 | 160 | 9280 | 640 | 180 |
| 10 RI Rhinotuff | 5/8 | 15.9 | 23.2 | 21 | 1885 | 130 | 7540 | 520 | 205 |
| 12 RI Rhinotuff | 3/4 | 19.0 | 27.3 | 25.3 | 1525 | 105 | 6100 | 420 | 240 |
| 16 RI Rhinotuff | 1 | 25.0 | 35.3 | 33 | 1275 | 88 | 5100 | 352 | 300 |
| 20 RI Rhinotuff | 1-1/4 | 31.5 | 43.1 | 40.5 | 915 | 63 | 3660 | 248 | 420 |
| 24 RI Rhinotuff | 1-1/2 | 38.0 | 49.2 | 46.5 | 725 | 50 | 2900 | 200 | 500 |
| 32 RI Rhinotuff | 2 | 51.0 | 62.6 | 60 | 580 | 40 | 2320 | 160 | 630 |

SAE 100 R2 AT / EN 853 2SN

2-WIRE BRAID HYDRAULIC HOSE FLAME RESISTANCE 'MSHA' COVER

Tube:

Specially compounded oil-resistant NBR (Black)

Reinforcement:

Two Braid of high-tensile steel wire

Cover:

Oil and ozone resistance NBR/PVC- Black (CR cover available on request) MSHA certified.

Temperature range:

-40°C to +100°C, , continuous operation. For air max temperature = +70°C

Main applications:

High pressure hydraulic lines, fuel oil, antifreeze solutions, air and water. Conforms to SAE 100 R2/ EN853 2SN and ISO 1436-2 Specifications. Cover Finish available from 1/4" to 3/4" ID in smooth and wrap finish. Sizes from 1" to 2" will be available in wrap finish only.



| Product | Hose ID | | NOM.HOSE OD MM | WIRE BRAID OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|---------|---------|------|-------------------|---------------------|----------------------|-----|--------------------|------|-----------------------|
| | INCH | MM | | | PSI | BAR | PSI | BAR | |
| 4 R2 | 1/4 | 6.3 | 14.7 | 12.8 | 5800 | 400 | 23200 | 1600 | 100 |
| 5 R2 | 5/16 | 8 | 16.4 | 14.2 | 5075 | 350 | 20300 | 1400 | 115 |
| 6 R2 | 3/8 | 9.5 | 18.5 | 16.4 | 4785 | 330 | 19140 | 1320 | 125 |
| 8 R2 | 1/2 | 12.5 | 21.8 | 19.9 | 4000 | 275 | 16000 | 1100 | 180 |
| 10 R2 | 5/8 | 15.9 | 25 | 22.7 | 3625 | 250 | 14500 | 1000 | 205 |
| 12 R2 | 3/4 | 19 | 28.9 | 26.9 | 3120 | 215 | 12480 | 860 | 240 |
| 16 R2 | 1 | 25 | 36.8 | 34.6 | 2395 | 165 | 9580 | 660 | 300 |
| 20 R2 | 1-1/4 | 31.5 | 46.4 | 43.8 | 1815 | 125 | 7260 | 500 | 420 |
| 24 R2 | 1-1/2 | 38 | 52.8 | 50.1 | 1305 | 90 | 5220 | 360 | 500 |
| 32 R2 | 2 | 51 | 64.8 | 62.2 | 1160 | 80 | 4540 | 320 | 630 |

RHINOTUFF COVER SAE 100R2 AT / EN 853 2SN

2-WIRE BRAID HYDRAULIC HOSE FLAME RESISTANCE 'MSHA' COVER

Tube:

Specially compounded oil resistance NBR (Black)

Reinforcement:

Two braid of high tensile steel wire.

Cover:

High abrasion resistance, oil and ozone resistance synthetic rubber - MSHA certified.

Temperature range:

-40°C to +100°C, continuous operation. For air max temperature = +70°C

Main applications:

High pressure hydraulic lines, fuel oil, antifreeze solutions, air and water. Conforms to SAE100R2/EN 853 2SN and ISO 1438-2 Specifications. Cover Finish available from 1/4" to 3/4" ID in smooth and wrap finish. Sizes from 1" to 2" will be available in wrap finish only.



| Product | Hose ID | | NOM.HOSE OD MM | WIRE BRAID OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|-----------------|---------|------|-------------------|---------------------|----------------------|-----|--------------------|------|-----------------------|
| | INCH | MM | | | PSI | BAR | PSI | BAR | |
| 4 R2 Rhinotuff | 1/4 | 6.3 | 14.7 | 12.8 | 5800 | 400 | 23200 | 1600 | 100 |
| 5 R2 Rhinotuff | 5/16 | 8 | 16.4 | 14.2 | 5075 | 350 | 20300 | 1400 | 115 |
| 6 R2 Rhinotuff | 3/8 | 9.5 | 18.5 | 16.4 | 4785 | 330 | 19140 | 1320 | 125 |
| 8 R2 Rhinotuff | 1/2 | 12.5 | 21.8 | 19.9 | 4000 | 275 | 16000 | 1100 | 180 |
| 10 R2 Rhinotuff | 5/8 | 15.9 | 25 | 22.7 | 3625 | 250 | 14500 | 1000 | 205 |
| 12 R2 Rhinotuff | 3/4 | 19 | 28.9 | 26.9 | 3120 | 215 | 12480 | 860 | 240 |
| 16 R2 Rhinotuff | 1 | 25 | 36.8 | 34.6 | 2395 | 165 | 9580 | 660 | 300 |
| 20 R2 Rhinotuff | 1-1/4 | 31.5 | 46.4 | 43.8 | 1815 | 125 | 7260 | 500 | 420 |
| 24 R2 Rhinotuff | 1-1/2 | 38 | 52.8 | 50.1 | 1305 | 90 | 5220 | 360 | 500 |
| 32 R2 Rhinotuff | 2 | 51 | 64.8 | 62.2 | 1160 | 80 | 4640 | 320 | 630 |

SAE 100R3

2-YARN BRAID HYDRAULIC HOSE

Tube:

Specially compounded oil-resistant NBR (Black)

Reinforcement:

Two Braid of high tenacity yarn.

Cover:

Oil and ozone resistance NBR/PVC-Black. (CR cover available on request)

Temperature range:

From -40°C to +100°C, , continuous operation. For Air max T=+70°C

Main applications:

Hydraulic Applications in Low pressure lines, return lines and drain lines. Fuel oil, antifreeze solutions, air and water. Conforms to SAE100 R3 Specification.



| Product | Hose ID | | NOM.HOSE OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|---------|---------|------|-------------------|----------------------|-----|--------------------|-----|-----------------------|
| | INCH | MM | | PSI | BAR | PSI | BAR | |
| 4 R3 | 1/4 | 6.3 | 15 | 1262 | 87 | 5046 | 348 | 75 |
| 5 R3 | 5/16 | 8 | 17.8 | 1200 | 83 | 4800 | 332 | 100 |
| 6 R3 | 3/8 | 9.5 | 18.8 | 1125 | 78 | 4500 | 312 | 100 |
| 8 R3 | 1/2 | 12.5 | 23.4 | 1000 | 69 | 4000 | 276 | 125 |
| 10 R3 | 5/8 | 15.9 | 27 | 875 | 61 | 3500 | 244 | 140 |
| 12 R3 | 3/4 | 19 | 31.7 | 750 | 52 | 3000 | 208 | 180 |
| 16 R3 | 1 | 25 | 38.5 | 565 | 39 | 2260 | 156 | 200 |
| 20 R3 | 1-1/4 | 31.5 | 44.4 | 375 | 26 | 1500 | 104 | 250 |
| 24 R3 | 1-1/2 | 38 | 51 | 300 | 21 | 1200 | 84 | 400 |

SAE 100R6

1-YARN BRAID HYDRAULIC HOSE

Tube:

Specially compounded oil-resistant NBR (Black)

Reinforcement:

One Braid of high tenacity yarn

Cover:

Oil and ozone resistance NBR/PVC-Black (CR cover available on request)

Temperature range:

From -40 °C to +100 °C , continuous operation. For air max T = +70 °C

Main applications:

Hydraulic Applications in Low pressure lines, return lines and drain lines. Fuel oil antifreeze solutions, air and water. Conforms to SAE 100R6 Specification



| Product | Hose ID | | NOM.HOSE OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|---------|---------|------|-------------------|----------------------|-----|--------------------|-----|-----------------------|
| | INCH | MM | | PSI | BAR | PSI | BAR | |
| 4 R6 | 1/4 | 6.3 | 12.8 | 400 | 28 | 1600 | 112 | 65 |
| 5 R6 | 5/16 | 8 | 14 | 400 | 28 | 1600 | 112 | 75 |
| 6 R6 | 3/8 | 9.5 | 16 | 400 | 28 | 1600 | 112 | 75 |
| 8 R6 | 1/2 | 12.5 | 19.7 | 400 | 28 | 1600 | 112 | 100 |
| 10 R6 | 5/8 | 15.9 | 23.2 | 350 | 24 | 1400 | 96 | 125 |
| 12 R6 | 3/4 | 19 | 26.4 | 300 | 21 | 1200 | 84 | 150 |
| 16 R6 | 1 | 25 | 33.5 | 205 | 14 | 820 | 56 | 200 |

SAE 100R6 (HI-TEMP)

1-YARN BRAID HYDRAULIC HOSE

Tube:

Specially compounded oil-resistant NBR (Black)

Reinforcement:

One Braid of high tenacity yarn.

Cover:

Oil and ozone resistance with CR cover.

Temperature range:

From -40 °C to +135 °C , continuous operation.

For air max T = +100 °C.

Main applications:

Hydraulic Applications in Low pressure lines, return lines and drain lines. Fuel oil, antifreeze solutions, air and water; Conforms to SAE 100 R6 Specification.



| Product | Hose ID | | NOM.HOSE OD | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS |
|---------|---------|------|-------------|----------------------|-----|--------------------|-----|-----------------|
| | INCH | MM | | MM | PSI | BAR | PSI | |
| 4 R6HT | 1/4 | 6.3 | 12.8 | 400 | 28 | 1600 | 112 | 65 |
| 5 R6HT | 5/16 | 8 | 14 | 400 | 28 | 1600 | 112 | 75 |
| 6 R6HT | 3/8 | 9.5 | 15.8 | 400 | 28 | 1600 | 112 | 75 |
| 8 R6HT | 1/2 | 12.5 | 19.5 | 400 | 28 | 1600 | 112 | 100 |
| 10 R6HT | 5/8 | 15.9 | 23 | 350 | 24 | 1400 | 96 | 125 |
| 12 R6HT | 3/4 | 19 | 26.4 | 300 | 21 | 1200 | 84 | 150 |
| 16 R6HT | 1 | 25 | 33.5 | 205 | 14 | 820 | 56 | 200 |

SAE 100R16 / EN 857 2SC

2-WIRE BRAID HYDRAULIC HOSE FLAME RESISTANCE 'MSHA' COVER

Tube:

Specially compounded oil-resistant NBR (Black)

Reinforcement:

Two Braid of high-tensile Steel wire.

Cover:

Oil and ozone resistance NBR/PVC-Black (CR cover available on request) MSHA Certified.

Temperature range:

-40°C to +100°C , continuous operation. For air max Temperature = +70°C

Main applications:

High pressure hydraulic lines, fuel oil, antifreeze solutions air and water. Conforms to SAE 100 R16/ EN857 2SC Specifications UP TO 1-1/4". Rest two sizes 1-1/2"-2" JK Proprietary specifications. Cover finish available from 1/4" to 3/4" ID in smooth and wrap finish. Sizes from 1" to 2' will be available in wrap finish only.



| Product | Hose ID | | NOM.HOSE OD MM | WIRE BRAID OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|---------|---------|------|-------------------|---------------------|----------------------|-----|--------------------|------|-----------------------|
| | INCH | MM | | | PSI | BAR | PSI | BAR | |
| 4 2SC | 1/4 | 6.3 | 13.6 | 11.9 | 5800 | 400 | 23200 | 1600 | 75 |
| 5 2SC | 5/16 | 8 | 15.1 | 13.1 | 5075 | 350 | 20300 | 1400 | 85 |
| 6 2SC | 3/8 | 9.5 | 17.1 | 15.5 | 4785 | 330 | 19120 | 1320 | 90 |
| 8 2SC | 1/2 | 12.5 | 20.4 | 18.2 | 4000 | 275 | 16000 | 1100 | 90 |
| 10 2SC | 5/8 | 15.9 | 23.8 | 22.2 | 3625 | 250 | 14500 | 1000 | 100 |
| 12 2SC | 3/4 | 19 | 27.6 | 25.2 | 3120 | 215 | 12480 | 860 | 120 |
| 16 2SC | 1 | 25 | 35 | 32.9 | 2395 | 165 | 9580 | 660 | 150 |
| 20 2SC | 1-1/4 | 31.5 | 42.5 | 40.1 | 1810 | 125 | 7240 | 500 | 210 |
| 24 2SC | 1-1/2 | 38 | 51.3 | 48 | 1450 | 100 | 5800 | 400 | 300 |
| 32 2SC | 2 | 50 | 63.8 | 61.6 | 1305 | 90 | 5220 | 360 | 400 |

RHINOTUFF COVER COMPACT HOSE SAE 100R16 / EN 857 2SC

2-WIRE BRAID HYDRAULIC HOSE FLAME RESISTANCE 'MSHA' COVER

Tube:

Specially compounded Oil resistance NBR-Black.

Reinforcement:

Two Braid of High Tensile Steel wire.

Cover:

High Abrasion resistance, Oil & Ozone resistance
Synthetic Rubber- MSHA certified.

Temperature range:

-40°C to +100°C continuous operation. For Air
max temperature = +70°C.

Main applications:

High pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.

Conforms to SAE100R16/EN857 2SC Specifications up to 1-1/4"

Rest two sizes 1-1/2"-2" JK Proprietary spec. Cover Finish available from 1/4" to 3/4" ID in smooth & Wrap finish. Sizes 1" up to 2" will be available in Wrap finish only.



| Product | Hose ID | | NOM.HOSE OD MM | WIRE BRAID OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|------------------|---------|------|----------------------|------------------------|-------------------------|-----|-----------------------|------|--------------------------|
| | INCH | MM | | | PSI | BAR | PSI | BAR | |
| 4 2SC Rhinituff | 1/4 | 6.3 | 13.6 | 11.9 | 5800 | 400 | 23200 | 1600 | 75 |
| 5 2SC Rhinituff | 5/16 | 8 | 15.1 | 13.1 | 5075 | 350 | 20300 | 1400 | 85 |
| 6 2SC Rhinituff | 3/8 | 9.5 | 17.1 | 15.5 | 4785 | 330 | 19120 | 1320 | 90 |
| 8 2SC Rhinituff | 1/2 | 12.5 | 20.4 | 18.2 | 4000 | 275 | 16000 | 1100 | 90 |
| 10 2SC Rhinituff | 5/8 | 15.9 | 23.8 | 22.2 | 3625 | 250 | 14500 | 1000 | 100 |
| 12 2SC Rhinituff | 3/4 | 19 | 27.6 | 25.2 | 3120 | 215 | 12480 | 860 | 120 |
| 16 2SC Rhinituff | 1 | 25 | 35 | 32.9 | 2395 | 165 | 9580 | 660 | 150 |
| 20 2SC Rhinituff | 1-1/4 | 31.5 | 42.5 | 40.5 | 1810 | 125 | 7240 | 500 | 210 |
| 24 2SC Rhinituff | 1-1/2 | 38 | 51.3 | 48 | 1450 | 100 | 5800 | 400 | 300 |
| 32 2SC Rhinituff | 2 | 50 | 63.8 | 61.6 | 1305 | 90 | 5220 | 360 | 400 |

FXFT SAE 100R16 / EN 857 2SC

2-WIRE BRAID HYDRAULIC HOSE

Tube:

Specially compounded oil-resistance NBR (Black)

Reinforcement:

Two Braid of high-tensile Steel wire.

Cover:

Oil and ozone resistance, NBR/PVC - Black.

Temperature range:

-40°C to +100°C, , continuous operation. For air max
Temperature = +70°C.

Main applications:

High performance hose with 600000 Impulse cycles.
High pressure hydraulic lines, fuel oil, anti - freeze solution
air and water. Conforms to SAE 100R16/ EN 857 2SC
Specifications. Sizes available from 1/4" to 1" in wrap finish.



| Product | Hose ID | | NOM.HOSE OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|---------|---------|------|----------------------|-------------------------|-----|-----------------------|------|--------------------------|
| | INCH | MM | | PSI | BAR | PSI | BAR | |
| 4 FXFT | 1/4 | 6.3 | 14.3 | 6090 | 420 | 24360 | 1680 | 75 |
| 6 FXFT | 3/8 | 9.5 | 17.5 | 5075 | 350 | 20300 | 1400 | 90 |
| 8 FXFT | 1/2 | 12.5 | 20.3 | 4060 | 280 | 16240 | 1120 | 90 |
| 10 FXFT | 5/8 | 15.9 | 24.2 | 3770 | 260 | 15080 | 1040 | 100 |
| 12 FXFT | 3/4 | 19 | 27.8 | 3250 | 225 | 13050 | 900 | 120 |
| 16 FXFT | 1 | 25 | 35.2 | 2530 | 175 | 10150 | 700 | 150 |

CONSTANT PRESSURE COMPACT HOSE SAE 100R17/ISO11237

R17 WIRE BRAID HYDRAULIC HOSE FLAME RESISTANCE 'MSHA' COVER

Tube:

Specially compounded oil-resistant NBR (Black)

Reinforcement:

One or Two Braid of high-tensile Steel wire.

Cover:

Oil, Abrasion and Ozone resistance NBR/PVC-Black. (CR cover available on request) MSHA Certified

Temperature range:

From -40 °C to +100 °C , continuous operation.
For air max Temperature = +70 °C

Main applications:

Medium-pressure hydraulic lines. Suitable for petroleum-based hydraulic fluids, synthetic ester, biodegradable hydraulic fluids, water-glycol based fluids and lubricating oil. Conforms to SAE 100 R17/ISO11237 R17 Specifications. Cover Finish available from 1/4" to 1' in wrap finish only.



| Product | Hose ID | | NOM.HOSE OD MM | WIRE BRAID OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|---------|---------|------|----------------------|------------------------|-------------------------|-----|-----------------------|-----|--------------------------|
| | INCH | MM | | | PSI | BAR | PSI | BAR | |
| 4 R17 | 1/4 | 6.3 | 12.6 | 10.6 | 3050 | 210 | 12200 | 840 | 50 |
| 5 R17 | 5/16 | 8 | 14.5 | 12.3 | 3050 | 210 | 12200 | 840 | 55 |
| 6 R17 | 3/8 | 9.5 | 16.2 | 14.2 | 3050 | 210 | 12200 | 840 | 65 |
| 8 R17 | 1/2 | 12.5 | 20 | 17.9 | 3050 | 210 | 12200 | 840 | 90 |
| 10 R17 | 5/8 | 15.9 | 24.3 | 22.6 | 3050 | 210 | 12200 | 840 | 100 |
| 12 R17 | 3/4 | 19 | 28 | 26.2 | 3050 | 210 | 12200 | 840 | 120 |
| 16 R17 | 1 | 25 | 36.3 | 34 | 3050 | 210 | 12200 | 840 | 150 |

RHINOTUFF COVER CONSTANT PRESSURE COMPACT HOSE SAE 100R17/ISO11237

R17 WIRE BRAID HYDRAULIC HOSE FLAME RESISTANCE 'MSHA' COVER

Tube:

Specially compounded oil-resistant NBR (Black)

Reinforcement:

One or two braids of high-tensile Steel wire.

Cover:

High abrasion resistance, oil and ozone resistance synthetic rubber - MSHA certified.

Temperature range:

From -40°C to +100°C, continuous operation. For maximum air temperature of approximately +70 °C.

Main applications:

Medium-pressure hydraulic lines. Suitable for petroleum-based hydraulic fluids, synthetic ester, biodegradable hydraulic fluids, water-glycol based fluids and lubricating oil. Conforms to SAE 100R17/ISO11237 R17 specifications. Cover Finish available from 1/4" to 1" in wrap finish only.



| Product | Hose ID | | NOM.HOSE OD MM | WIRE BRAID OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|------------------|---------|------|----------------------|------------------------|-------------------------|-----|-----------------------|-----|--------------------------|
| | INCH | MM | | | PSI | BAR | PSI | BAR | |
| 4 R17 Rhinotuff | 1/4 | 6.3 | 12.6 | 10.6 | 3050 | 210 | 12200 | 840 | 50 |
| 5 R17 Rhinotuff | 5/16 | 8 | 14.5 | 12.3 | 3050 | 210 | 12200 | 840 | 55 |
| 6 R17 Rhinotuff | 3/8 | 9.5 | 16.2 | 14.2 | 3050 | 210 | 12200 | 840 | 65 |
| 8 R17 Rhinotuff | 1/2 | 12.5 | 20 | 17.9 | 3050 | 210 | 12200 | 840 | 90 |
| 10 R17 Rhinotuff | 5/8 | 15.9 | 24.3 | 22.6 | 3050 | 210 | 12200 | 840 | 100 |
| 12 R17 Rhinotuff | 3/4 | 19 | 28 | 26.2 | 3050 | 210 | 12200 | 840 | 120 |
| 16 R17 Rhinotuff | 1 | 25 | 36.3 | 34 | 3050 | 210 | 12200 | 840 | 150 |

CONSTANT PRESSURE COMPACT HOSE SAE 100R19/ISO11237

R19 WIRE BRAID HYDRAULIC HOSE FLAME RESISTANCE 'MSHA' COVER

Tube:

Specially compounded oil-resistant NBR (Black)

Reinforcement:

Two Braid of high-tensile Steel wire.

Cover:

Oil, Abrasion and Ozone resistance NBR/PVC-Black. (CR cover available on request) MSHA Certified.

Temperature range:

From -40°C to +100°C, , continuous operation.
For air Temperature = +70°C.

Main applications:

Medium-pressure hydraulic lines. Suitable for petroleum-based hydraulic fluids, synthetic ester, biodegradable hydraulic fluids, water-glycol based fluids and lubricating oil. Conforms to SAE 100R19 Specifications. Cover Finish available from 1/4" to 1" in wrap finish only.



| Product | Hose ID | | NOM.HOSE OD MM | WIRE BRAID OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|---------|---------|------|----------------------|------------------------|-------------------------|-----|-----------------------|------|--------------------------|
| | INCH | MM | | | PSI | BAR | PSI | BAR | |
| 4 R19 | 1/4 | 6.3 | 14.1 | 12 | 4050 | 280 | 16200 | 1120 | 50 |
| 5 R19 | 5/16 | 8 | 15.1 | 13.1 | 4050 | 280 | 16200 | 1120 | 55 |
| 6 R19 | 3/8 | 9.5 | 17.1 | 15.2 | 4050 | 280 | 16200 | 1120 | 65 |
| 8 R19 | 1/2 | 12.5 | 21.1 | 19 | 4050 | 280 | 16200 | 1120 | 90 |
| 10 R19 | 5/8 | 15.9 | 25.2 | 23.4 | 4050 | 280 | 16200 | 1120 | 100 |
| 12 R19 | 3/4 | 19 | 27.7 | 25.8 | 4050 | 280 | 16200 | 1120 | 120 |
| 16 R19 | 1 | 25.0 | 38.2 | 34.2 | 4050 | 280 | 16200 | 1120 | 150 |

RHINOTUFF COVER CONSTANT PRESSURE COMPACT HOSE SAE 100R19/ISO11237

R19 WIRE BRAID HYDRAULIC HOSE FLAME RESISTANCE 'MSHA' COVER

Tube:

Specially compounded oil-resistant NBR (Black)

Reinforcement:

Two Braid of high-tensile Steel wire.

Cover:

Oil, Abrasion and Ozone resistance NBR/PVC-Black. (CR cover available on request) MSHA Certified.

Temperature range:

From -40°C to +100°C, , continuous operation. For air max Temperature +70°C.

Main applications:

Medium-pressure hydraulic lines. Suitable for petroleum-based hydraulic fluids, synthetic ester, biodegradable hydraulic fluids, water-glycol based fluids and lubricating oil. Conforms to SAE 100R19 Specifications. Sizes available from ¼ " to 1 " ID in wrap finish only.



| Product | Hose ID | | NOM.HOSE OD MM | WIRE BRAID OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|------------------|---------|------|----------------------|------------------------|-------------------------|-----|-----------------------|------|--------------------------|
| | INCH | MM | | | PSI | BAR | PSI | BAR | |
| 4 R19 Rhinotuff | 1/4 | 6.3 | 14.1 | 12 | 4050 | 280 | 16200 | 1120 | 50 |
| 5 R19 Rhinotuff | 5/16 | 8 | 15.1 | 13.1 | 4050 | 280 | 16200 | 1120 | 55 |
| 6 R19 Rhinotuff | 3/8 | 9.5 | 17.1 | 15.2 | 4050 | 280 | 16200 | 1120 | 65 |
| 8 R19 Rhinotuff | 1/2 | 12.5 | 21.1 | 19 | 4050 | 280 | 16200 | 1120 | 90 |
| 10 R19 Rhinotuff | 5/8 | 15.9 | 25.2 | 23.4 | 4050 | 280 | 16200 | 1120 | 100 |
| 12 R19 Rhinotuff | 3/4 | 19 | 27.7 | 25.8 | 4050 | 280 | 16200 | 1120 | 120 |
| 16 R19 Rhinotuff | 1 | 25.0 | 38.2 | 34.2 | 4050 | 280 | 16200 | 1120 | 150 |

JACK HOSE IJ100

2- WIRE BRAID HYDRAULIC HOSE FLAME RESISTANCE 'MSHA' COVER

Tube:

Specially compounded oil-resistant NBR (Black)

Reinforcement:

Two Braid of high-tensile Steel wire

Cover:

Oil, Abrasion and Ozone resistance NBR/PVC-Black. MSHA Certified.

Temperature range:

From -40°C to +100°C, , continuous operation. For air max Temperature = +70°C

Main applications:

- Industrial Jack application
- Conforms to IJ100 R17 Specifications
- Cover Finish available in smooth and wrap finish



| Product | Hose ID | | NOM.HOSE OD MM | WIRE BRAID OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|---------|---------|-----|----------------------|------------------------|-------------------------|-----|-----------------------|------|--------------------------|
| | INCH | MM | | | PSI | BAR | PSI | BAR | |
| 4 JACK | 1/4 | 6.3 | 14.7 | 12.9 | 10500 | 725 | 21000 | 1450 | 100 |
| 6 JACK | 3/8 | 9.5 | 18.1 | 16.4 | 10500 | 725 | 21000 | 1450 | 125 |

AGROTROLLEY HOSE

1- WIRE BRAID HYDRAULIC HOSE

Tube:

Specially compounded oil-resistant NBR (Black)

Reinforcement:

One Braid of high-tensile Steel wire.

Cover:

Oil and ozone resistance NBR/PVC-Black.

Temperature range:

-40°C to +100°C, , continuous operation

Main applications:

Tractor Trolley Application

Caution:

Don't use this hose as a replacement of SAE100R1 Hose.

Cover Finish available ID in smooth and wrap finish



| Product | Hose ID | | NOM.HOSE OD MM | WIRE BRAID OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|-------------|---------|------|-------------------|---------------------|----------------------|-----|--------------------|-----|-----------------------|
| | INCH | MM | | | PSI | BAR | PSI | BAR | |
| 6 AGT-1WIRE | 3/8 | 9.5 | 17 | 15 | 2450 | 170 | 7350 | 510 | 125 |
| 8 AGT-1WIRE | 1/2 | 12.5 | 20 | 18 | 2000 | 140 | 6000 | 420 | 180 |

AGROTROLLEY HOSE

2-WIRE BRAID HYDRAULIC HOSE

Tube:

Specially compounded oil-resistant NBR (Black)

Reinforcement:

Two Braid of high-tensile Steel wire.

Cover:

Oil and ozone resistance NBR/PVC-Black.

Temperature range:

-40°C to +100°C, , continuous operation

Main applications:

Tractor Trolley Application

Caution:

Don't use this hose as a replacement of SAE100R2 Hose.

Cover Finish available ID in smooth and wrap finish



| Product | Hose ID | | NOM.HOSE OD MM | WIRE BRAID OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|-------------|---------|------|----------------------|------------------------|-------------------------|-----|-----------------------|-----|--------------------------|
| | INCH | MM | | | PSI | BAR | PSI | BAR | |
| 6 AGT-2WIRE | 3/8 | 9.5 | 17.9 | 15.7 | 3500 | 245 | 8750 | 615 | 125 |
| 8 AGT-2WIRE | 1/2 | 12.5 | 21.2 | 19 | 3500 | 245 | 8750 | 615 | 180 |

COMPACT HOSE EN 857 1SC

1-WIRE BRAID HYDRAULIC HOSE FLAME RESISTANCE 'MSHA' COVER

Tube:

Specially compounded oil-resistant NBR (Black)

Reinforcement:

One Braid of high-tensile Steel wire.

Cover:

Oil and ozone resistance NBR/PVC-Black. (CR cover available on request) MSHA certified.

Temperature range:

-40°C to +100°C, , continuous operation. For air max Temperature ≈ +70°C

Main applications:

Medium-pressure hydraulic lines, fuel oil, antifreeze solutions, air and water. Conforms to EN 857 1SC Specifications. Cover Finish available from 1/4" to 3/4" ID in smooth and wrap finish. Sizes from 1" to 2" will be available in wrap finish only.



| Product | Hose ID | | NOM.HOSE OD MM | WIRE BRAID OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|---------|---------|------|-------------------|---------------------|----------------------|-----|--------------------|-----|-----------------------|
| | INCH | MM | | | PSI | BAR | PSI | BAR | |
| 4 1SC | 1/4 | 6.3 | 12.4 | 10.3 | 3265 | 225 | 13000 | 900 | 75 |
| 5 1SC | 5/16 | 8 | 13.9 | 11.7 | 3100 | 215 | 12400 | 860 | 85 |
| 6 1SC | 3/8 | 9.5 | 15.8 | 13.8 | 2610 | 180 | 10440 | 720 | 90 |
| 8 1SC | 1/2 | 12.5 | 19.1 | 17.1 | 2320 | 160 | 9280 | 640 | 130 |
| 10 1SC | 5/8 | 15.9 | 22.3 | 20.3 | 1885 | 130 | 7540 | 520 | 150 |
| 12 1SC | 3/4 | 19 | 25.6 | 23.7 | 1525 | 105 | 6100 | 420 | 180 |
| 16 1SC | 1 | 25 | 33.2 | 31.1 | 1275 | 88 | 5100 | 352 | 230 |
| 20 1SC | 1-1/4 | 31.5 | 40.9 | 38.7 | 915 | 63 | 3660 | 252 | 315 |
| 24 1SC | 1-1/2 | 38 | 46.8 | 44.3 | 725 | 50 | 2900 | 200 | 375 |
| 32 1SC | 2 | 50 | 61 | 58 | 580 | 40 | 2320 | 160 | 475 |

RHINOTUFF COVER COMPACT HOSES EN857 ISC

1- WIRE BRAID HYDRAULIC HOSE FLAME RESISTANCE 'MSHA' COVER

Tube:

Specially compounded oil-resistant NBR (Black)

Reinforcement:

One Braid of high-tensile Steel wire.

Cover:

High abrasion resistance; oil and ozone resistance synthetic rubber – MSHA certified.

Temperature range:

-40 °C to +100 °C , continuous operation. For air max Temperature = +70 °C.

Main applications:

Medium-pressure hydraulic lines, fuel oil, antifreeze solutions, air and water. Conforms to EN 857 ISC Specifications up to 1". Rest three sizes 1-1/4" - 2" JK Proprietary spec. Cover Finish available from 1/4" to 3/4" ID in smooth and wrap finish. Sizes from 1" to 2" will be available in wrap finish only.



| Product | Hose ID | | NOM.HOSE OD MM | WIRE BRAID OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|------------------|---------|------|-------------------|---------------------|----------------------|-----|--------------------|-----|-----------------------|
| | INCH | MM | | | PSI | BAR | PSI | BAR | |
| 4 ISC RHINOTUFF | 1/4 | 6.3 | 12.4 | 10.3 | 3265 | 225 | 13000 | 900 | 75 |
| 5 ISC RHINOTUFF | 5/16 | 8 | 13.9 | 11.7 | 3100 | 215 | 12400 | 860 | 85 |
| 6 ISC RHINOTUFF | 3/8 | 9.5 | 15.8 | 13.8 | 2610 | 180 | 10440 | 720 | 90 |
| 8 ISC RHINOTUFF | 1/2 | 12.5 | 19.1 | 17.1 | 2320 | 160 | 9280 | 640 | 130 |
| 10 ISC RHINOTUFF | 5/8 | 15.9 | 22.3 | 20.3 | 1885 | 130 | 7540 | 520 | 150 |
| 12 ISC RHINOTUFF | 3/4 | 19 | 25.6 | 23.7 | 1525 | 105 | 6100 | 420 | 180 |
| 16 ISC RHINOTUFF | 1 | 25 | 33.2 | 31.1 | 1275 | 88 | 5100 | 352 | 230 |
| 20 ISC RHINOTUFF | 1-1/4 | 31.5 | 40.9 | 38.7 | 915 | 63 | 3660 | 252 | 315 |
| 24 ISC RHINOTUFF | 1-1/2 | 38 | 46.8 | 44.3 | 725 | 50 | 2900 | 200 | 375 |
| 32 ISC RHINOTUFF | 2 | 50 | 61 | 58 | 580 | 40 | 2320 | 160 | 475 |

SECTION - B
SPIRAL HOSES



4SH SERIES



4SP SERIES

Note: R12, R14, R15 Hoses are under validation stage

4SH SERIES

Construction:

The hose consists of an inner tube of oil synthetic rubber, four or six layers of spiral wire reinforcement, an oil and weather resistance rubber cover.

Application:

Suitable for conveying hydraulic fluids such as glycol, mineral oil, lubrication, emulsion, hydrocarbons etc. Should not be used for conveying phosphate ester group.

Temperature range:

-40°F to +212°F (-40°C to +100°C)

Impulse Test:

Specified – 4,00,000 Cycles

Tested up to – 8,00,000 Cycles

(Impulse test conducted with JK Fenner designed fittings)



| Product | Hose ID | | | NOMINAL HOSE OD | | MAX. WORKING PRESSURE | | MINIMUM BURST PRESSURE | | MINIMUM BEND RADIUS | | APPROX. WEIGHT |
|------------|---------|----|-------|-----------------|------|-----------------------|------|------------------------|-------|---------------------|-------|----------------|
| | DASH | MM | INCH | MM | INCH | MPA | PSI | MPA | PSI | MM | INCH | KG/M |
| 3/4" 4SH | -12 | 19 | 3/4 | 32.1 | 1.26 | 42 | 6090 | 168 | 24360 | 280 | 11.02 | 1.63 |
| 1" 4SH | -16 | 25 | 1 | 38.4 | 1.51 | 38.5 | 5580 | 154 | 22330 | 340 | 13.38 | 2.12 |
| 1-1/4" 4SH | -20 | 32 | 1-1/4 | 45.4 | 1.79 | 32.5 | 4710 | 130 | 18850 | 460 | 18.11 | 2.77 |
| 1-1/2" 4SH | -24 | 38 | 1-1/2 | 53.4 | 2.1 | 29 | 4200 | 116 | 16820 | 560 | 22.05 | 3.6 |
| 2" 4SH | -32 | 51 | 2 | 68.2 | 2.68 | 25 | 3625 | 100 | 14500 | 700 | 27.56 | 4.9 |

4SP SERIES

Construction:

The Hose Consists of an Inner Tube of Oil synthetic rubber, four or six Layers of Spiral Wire Reinforcement, an Oil and Weather Resistance Rubber Cover

Application:

Suitable for conveying Hydraulic Fluids such as Glycol, Mineral Oil, Lubrication, Emulsion, Hydrocarbons etc. Should not be used for conveying phosphate ester group.

Temperature range:

-40°F to +212°F (-40°C to +100°C)

Impulse Test:

Specified – 4,00,000 Cycles

Tested Up to – 8,00,000 Cycles

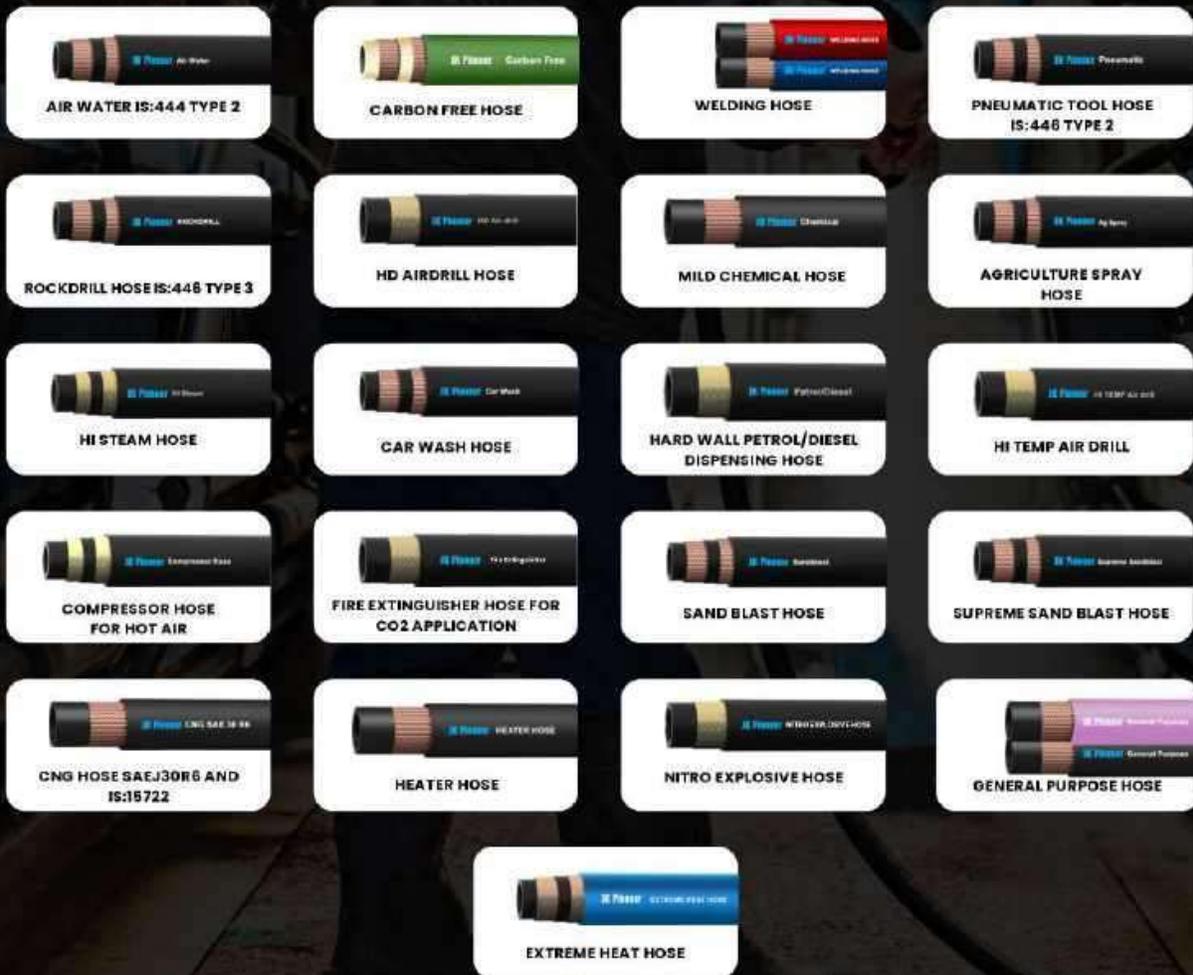
(Impulse Test conducted with JK Fenner designed fittings)



| Product | Hose ID | | | NOMINAL HOSE OD | | MAX. WORKING PRESSURE | | MINIMUM BURST PRESSURE | | MINIMUM BEND RADIUS | | APPROX. WEIGHT |
|------------|---------|----|-------|-----------------|------|-----------------------|------|------------------------|-------|---------------------|-------|----------------|
| | DASH | MM | INCH | MM | INCH | MPA | PSI | MPA | PSI | MM | INCH | KG/M |
| 1/2" 4SP | -8 | 13 | 1/2 | 24.8 | 0.97 | 42.5 | 6160 | 170 | 24650 | 230 | 9.1 | 0.9 |
| 5/8" 4SP | -10 | 16 | 5/8 | 27.9 | 1.1 | 35 | 5075 | 140 | 20300 | 250 | 9.84 | 1.05 |
| 3/4" 4SP | -12 | 19 | 3/4 | 32.0 | 1.26 | 35 | 5075 | 140 | 20300 | 300 | 11.81 | 1.61 |
| 1" 4SP | -16 | 25 | 1 | 39.7 | 1.56 | 28 | 4060 | 112 | 16240 | 340 | 13.38 | 2.07 |
| 1-1/4" 4SP | -20 | 32 | 1-1/4 | 51 | 2 | 21 | 3045 | 84 | 12180 | 460 | 18.11 | 3.1 |

HOSE VISUAL INDEX

SECTION - C INDUSTRIAL HOSES



AIR WATER HOSE IS:444 TYPE 2

Tube:

Synthetic rubber – Modified SBR-Black

Reinforcement:

One or Two Braid of high tenacity yarn.

Cover:

Weather and abrasion resistance NBR-PVC-Black.

Temperature range:

From -30°C to +70°C , continuous operation.

Main applications:

An economical Air and water hose, for a wide range of industrial, workshops, construction and agricultural and Irrigation etc.

Meet Exceeds performance requirement of IS:444 Type 2



| Product | Hose ID | | NOM.HOSE OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|---------|---------|------|-------------------|----------------------|-----|--------------------|-----|-----------------------|
| | INCH | MM | | PSI | BAR | PSI | BAR | |
| 8 AW | 1/2 | 12.5 | 20 | 175 | 12 | 525 | 36 | 125 |
| 12 AW | 3/4 | 20 | 28 | 175 | 12 | 525 | 36 | 150 |
| 16 AW | 1 | 25 | 35.9 | 175 | 12 | 525 | 36 | 200 |
| 20 AW | 1-1/4 | 31.5 | 42.9 | 175 | 12 | 525 | 36 | 250 |
| 24 AW | 1-1/2 | 38 | 49.6 | 175 | 12 | 525 | 36 | 300 |
| 28 AW | 1-3/4 | 45 | 57.5 | 175 | 12 | 525 | 36 | 300 |
| 32 AW | 2 | 50 | 62.3 | 175 | 12 | 525 | 36 | 425 |

CARBON FREE HOSE

Tube:

Specially No carbon compounded NBR-Off White

Reinforcement:

One or two braids of high tenacity yarn.

Cover:

Weather and abrasion resistance NBR-PVC-Green

Temperature range:

From -40°C to +70°C , continuous operation.

Main applications:

In Induction furnace cable cooling application in steel Industries, and other non-conductive applications. Specially developed Tube, Cover and Hose composite meets service requirement of Low leakage current (Less than 20 micro amps current @6000 Volt DC).



| Product | Hose ID | | NOM.HOSE OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|---------|---------|------|-------------------|----------------------|------|--------------------|-----|-----------------------|
| | INCH | MM | | PSI | BAR | PSI | BAR | |
| 6 CF | 3/8 | 10 | 17.5 | 250 | 17.5 | 1015 | 70 | 75 |
| 8 CF | 1/2 | 12.5 | 21.5 | 250 | 17.5 | 1015 | 70 | 100 |
| 12 CF | 3/4 | 20 | 30.3 | 250 | 17.5 | 1015 | 70 | 150 |
| 16 CF | 1 | 25 | 36.6 | 250 | 17.5 | 1015 | 70 | 150 |
| 20 CF | 1-1/4 | 31.5 | 44.6 | 250 | 17.5 | 1015 | 70 | 195 |
| 24 CF | 1-1/2 | 38 | 52 | 250 | 17.5 | 1015 | 70 | 250 |
| 32 CF | 2 | 50 | 65.5 | 250 | 17.5 | 1015 | 70 | 300 |

WELDING HOSE (RED AND BLUE COVER) IS: 447

Tube:

Synthetic rubber – Black

Reinforcement:

One Braid of high tenacity yarn

Cover:

synthetic rubber – Blue and Red

Temperature range:

From -30°C to +70°C , continuous operation

Main applications:

A lightweight, economical hose for use in welding equipment carrying Oxygen and Acetylene Gas. Red Cover is used for Acetylene or other fuel gases. Blue Cover is used for Oxygen or other non-combustible gases. Meets or exceeds performance requirement of IS:447



| Product | Hose ID | | NOM.HOSE OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|-----------|---------|----|----------------------|-------------------------|------|-----------------------|-----|--------------------------|
| | INCH | MM | | PSI | BAR | PSI | BAR | |
| 5 WELDING | 5/16 | 8 | 15 | 250 | 17.5 | 1000 | 70 | 95 |
| 6 WELDING | 3/8 | 10 | 17 | 250 | 17.5 | 1000 | 70 | 100 |

PNEUMATIC TOOL HOSE IS:446 TYPE 2

Tube:

Synthetic rubber-Modified SBR-Black

Reinforcement:

One or Two Braid of high tenacity yarn

Cover:

Weather and abrasion resistance NBR-PVC-Black

Temperature range:

From -30°C to +70°C , continuous operation

Main applications:

These Hoses are intended to be used on all types of Pneumatic Tools for compressed air in different Industries.

Meets or exceeds the performance requirements of IS:446-Type 2



| Product | Hose ID | | NOM.HOSE OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|---------|---------|------|-------------------|----------------------|-----|--------------------|-----|-----------------------|
| | INCH | MM | | PSI | BAR | PSI | BAR | |
| 4 PT | 1/4 | 6.3 | 13.6 | 200 | 14 | 800 | 56 | 75 |
| 5 PT | 5/16 | 8 | 15.2 | 200 | 14 | 800 | 56 | 95 |
| 6 PT | 3/8 | 10 | 17 | 200 | 14 | 800 | 56 | 100 |
| 8 PT | 1/2 | 12.5 | 20.4 | 200 | 14 | 800 | 56 | 125 |
| 10 PT | 5/8 | 16 | 23.4 | 200 | 14 | 800 | 56 | 140 |
| 12 PT | 3/4 | 20 | 28.5 | 200 | 14 | 800 | 56 | 150 |
| 16 PT | 1 | 25 | 35.8 | 200 | 14 | 800 | 56 | 200 |
| 20 PT | 1-1/4 | 31.5 | 43.6 | 200 | 14 | 800 | 56 | 250 |
| 24 PT | 1-1/2 | 38 | 50 | 200 | 14 | 800 | 56 | 300 |
| 32 PT | 2 | 50 | 62.8 | 200 | 14 | 800 | 56 | 425 |

ROCKDRILL HOSE IS:446 TYPE 3

Tube:

Synthetic rubber – Modified SBR-Black

Reinforcement:

One or two braids of high tenacity yarn.

Cover:

Weather and abrasion resistance NBR-PVC-Black.

Temperature range:

From -30°C to +70°C , continuous operation.

Main applications:

Used For air supply in Industrial construction and mining in Air Drills.

Meets or exceeds performance requirement of IS:446 Type 3.



| Product | Hose ID | | NOM.HOSE OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|---------|---------|------|----------------------|-------------------------|-----|-----------------------|-----|--------------------------|
| | INCH | MM | | PSI | BAR | PSI | BAR | |
| 8 RD | 1/2 | 12.5 | 22 | 300 | 21 | 1200 | 84 | 125 |
| 12 RD | 3/4 | 20 | 28.3 | 300 | 21 | 1200 | 84 | 150 |
| 16 RD | 1 | 25 | 38 | 300 | 21 | 1200 | 84 | 200 |
| 20 RD | 1-1/4 | 31.5 | 43.5 | 300 | 21 | 1200 | 84 | 250 |
| 24 RD | 1-1/2 | 38 | 52 | 300 | 21 | 1200 | 84 | 300 |
| 32 RD | 2 | 50 | 65.5 | 300 | 21 | 1200 | 84 | 300 |

HD AIRDRILL HOSE

Tube:

Synthetic rubber – Modified SBR–Black

Reinforcement:

One Braid of Brass coated high-tensile steel wire.

Cover:

Weather and abrasion resistance NBR-PVC–Black. All sizes come with perforated cover.

Temperature range:

From -30°C to +70°C , continuous operation.

Main applications:

Used for High Pressure Air supply in Industrial construction and mines.

Meets or exceeds the performance requirements of IS:446 Type 3



| Product | Hose ID | | NOM.HOSE OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|---------|---------|------|----------------------|-------------------------|-----|-----------------------|-----|--------------------------|
| | INCH | MM | | PSI | BAR | PSI | BAR | |
| 8 HDAD | 1/2 | 12.5 | 22.6 | 575 | 40 | 2300 | 160 | 70 |
| 12 HDAD | 3/4 | 20 | 28.8 | 575 | 40 | 2300 | 160 | 100 |
| 16 HDAD | 1 | 25 | 37 | 575 | 40 | 2300 | 160 | 120 |
| 20 HDAD | 1-1/4 | 31.5 | 43.8 | 575 | 40 | 2300 | 160 | 175 |
| 24 HDAD | 1-1/2 | 38 | 50 | 575 | 40 | 2300 | 160 | 200 |
| 32 HDAD | 2 | 50 | 63.7 | 575 | 40 | 2300 | 160 | 300 |

MILD CHEMICAL HOSE

Tube:

Synthetic rubber-modified EPDM (Black)

Reinforcement:

One or two braids of high tenacity yarn

Cover:

Weather and abrasion resistance EPDM Black

Temperature range:

From -30°C to +100°C , continuous operation

Main applications:

For conveying dilute chemicals such as Hydraulic acid, Sulphuric acid, Alums liquor, Caustic Soda, Methyl/Ethyl/Butyl Alcohol, etc.

Note:

Contact JK Pioneer Representative for any particular chemical use. Meets or exceeds the performance requirements of IS:7654 Type 1 and 2.



| Product | Hose ID | | NOM.HOSE OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|---------|---------|------|----------------------|-------------------------|-----|-----------------------|-----|--------------------------|
| | INCH | MM | | PSI | BAR | PSI | BAR | |
| 8 CH | 1/2 | 12.5 | 22.5 | 145 | 10 | 580 | 40 | 125 |
| 12 CH | 3/4 | 20 | 30 | 145 | 10 | 580 | 40 | 150 |
| 16 CH | 1 | 25 | 37.2 | 145 | 10 | 580 | 40 | 200 |
| 20 CH | 1-1/4 | 31.5 | 44 | 145 | 10 | 580 | 40 | 250 |
| 24 CH | 1-1/2 | 38 | 51.8 | 145 | 10 | 580 | 40 | 300 |
| 32 CH | 2 | 50 | 64 | 145 | 10 | 580 | 40 | 300 |

AGRICULTURE SPRAY HOSE

Tube:

Synthetic rubber-Modified NBR (Black)

Reinforcement:

One or two braids of high tenacity yarn

Cover:

Oil and Abrasion resistance Modified NBR (Black)

Temperature range:

From -30°C to +70°C , continuous operation

Main applications:

A lightweight, economical high-pressure hose for carrying air, water and water-based pesticides spray solutions in agricultural applications.

Note:

Not to be used for paint spray application. Meets Exceeds performance requirement of IS: 1677 Type-C.



| Product | Hose ID | | NOM.HOSE OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|------------|---------|------|-------------------|----------------------|-----|--------------------|-----|-----------------------|
| | INCH | MM | | PSI | BAR | PSI | BAR | |
| 6 AG SPRAY | 3/8 | 9.5 | 20.2 | 798 | 55 | 3192 | 220 | 100 |
| 8 AG SPRAY | 1/2 | 12.5 | 24 | 798 | 55 | 3192 | 220 | 125 |

HI STEAM HOSE

Tube:

Extreme Heat resistance EPDM Black

Reinforcement:

One or two braids of brass coated high-tensile steel wire

Cover:

Extreme heat and weather resistance EPDM Black

Temperature range:

From -40°C to +205°C , continuous operation

Main applications:

For steam – saturated and super saturated up to 250 PSI and 205°C application. It is used in refineries, shipyards, chemical plants, steel mills, foundries and heavy industrial applications, Tire curing bagomatic press etc.

Note:

Don't alternate change between steam and hot water.

Meet or exceeds the performance requirements of IS 10655 Type 3 and BS 5342 Type 2



| Product | Hose ID | | NOM.HOSE OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|----------|---------|------|-------------------|----------------------|-----|--------------------|-----|-----------------------|
| | INCH | MM | | PSI | BAR | PSI | BAR | |
| 8 STEAM | 1/2 | 12.5 | 23.4 | 245 | 17 | 2465 | 170 | 150 |
| 12 STEAM | 3/4 | 20 | 30.5 | 245 | 17 | 2465 | 170 | 200 |
| 16 STEAM | 1 | 25 | 36.8 | 245 | 17 | 2465 | 170 | 250 |
| 20 STEAM | 1-1/4 | 31.5 | 45.6 | 245 | 17 | 2465 | 170 | 300 |
| 24 STEAM | 1-1/2 | 38 | 53.4 | 245 | 17 | 2465 | 170 | 400 |
| 32 STEAM | 2 | 50 | 67 | 245 | 17 | 2465 | 170 | 625 |

CAR WASH HOSE

Tube:

Synthetic rubber-modified NBR (Black)

Reinforcement:

One or two braids of high tenacity yarn

Cover:

Oil and abrasion resistance modified NBR (Black)

Temperature range:

From -30°C to +70°C , continuous operation

Main applications:

A light weight, economical high-pressure hose for carrying air, water for car washing and Pressure Washing applications in Garage, Service stations and Industries.

Meet or exceeds the performance requirements of IS 444 Type-3B

Note:

* For high pressure, reinforced with wire braid (HD Car Wash).



| Product | Hose ID | | NOM.HOSE OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|---------|---------|------|-------------------|----------------------|-----|--------------------|-----|-----------------------|
| | INCH | MM | | PSI | BAR | PSI | BAR | |
| 6 CW | 3/8 | 9.5 | 19.5 | 400 | 28 | 1160 | 80 | 100 |
| 8 CW | 1/2 | 12.5 | 22 | 400 | 28 | 1160 | 80 | 125 |
| 6 HDCW* | 3/8 | 9.5 | 19 | 1100 | 75 | 2175 | 150 | 100 |

HARD WALL PETROL/DIESEL DISPENSING HOSE

Tube:

Specially compounded Fuel resistance NBR
(Black)

Reinforcement:

One Braid of Brass coated high-tensile steel wire.

Cover:

Weather, oil and Abrasion resistance NBR-
PVC-Black.

Temperature range:

From -30°C to +55°C , continuous operation.

Main applications:

For dispensing all types of Petrol and Diesel Fuels at Service station Pumps. Heavy Duty wire braided construction not collapse in reel use or, behind the Nozzle in demanding service conditions. Meet Exceeds performance requirement of EN 1360 Grade M, Type 3.



| Product | Hose ID | | NOM.HOSE OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|---------|---------|----|----------------------|-------------------------|-----|-----------------------|-----|--------------------------|
| | INCH | MM | | PSI | BAR | PSI | BAR | |
| 12 PD | 3/4 | 19 | 28.2 | 250 | 17 | 750 | 51 | 100 |
| 16 PD | 1 | 25 | 34.7 | 250 | 17 | 750 | 51 | 150 |

HI-TEMP AIR DRILL

Tube:

Oil-resistant synthetic rubber-Modified NBR
(Black)

Reinforcement:

One Braid of Brass coated high-tensile steel wire.

Cover:

Weather and abrasion resistance NBR-PVC-Black.

All sizes come with perforated cover.

Temperature range:

From -30°C to +110°C, continuous operation.

Main applications:

Used for High Pressure Air supply in Industrial construction and mines. This hose is designed to work at higher temperature in Waterwell Rig Segment.



| Product | Hose ID | | NOM.HOSE OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|---------|---------|------|----------------------|-------------------------|-----|-----------------------|-----|--------------------------|
| | INCH | MM | | PSI | BAR | PSI | BAR | |
| 20 HTAD | 1-1/4 | 31.5 | 44 | 500 | 35 | 2000 | 140 | 200 |
| 24 HTAD | 1-1/2 | 38 | 49.5 | 500 | 35 | 2000 | 140 | 250 |
| 32 HTAD | 2 | 50 | 63.5 | 500 | 35 | 2000 | 140 | 350 |

COMPRESSOR HOSE FOR HOT AIR

Tube:

Oil-resistant synthetic rubber-CPE-Black

Reinforcement:

Two Braid of Brass coated high-tensile steel wire.

Cover:

Heat, Weather and abrasion resistance synthetic rubber-Black. All sizes come with perforated cover.

Main applications:

Used for High Pressure and High temperature air supply in Heavy Duty compressors used in Ground Drilling for construction, Mines and General Industry. Compounds are designed to withstand high air temperature up to 135°C in heavy duty drill rig compressor up to 1100 CFM capacity.



| Product | Hose ID | | NOM.HOSE OD | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS |
|--------------------|---------|----|-------------|----------------------|-----|--------------------|-----|-----------------|
| | INCH | MM | MM | PSI | BAR | PSI | BAR | NM |
| 24 COMPRESSOR HOSE | 1-1/2 | 38 | 53 | 1250 | 86 | 5220 | 344 | 500 |
| 32 COMPRESSOR HOSE | 2 | 50 | 66 | 1160 | 80 | 4640 | 320 | 600 |

FIRE EXTINGUISHER HOSE

FOR CO2 APPLICATION – 1 WIRE BRAID

Tube:

Specially compounded synthetic rubber – Black

Reinforcement:

One Braid of high-tensile Steel wire

Cover:

Weather and abrasion resistance EPDM Rubber – Black. Also available in NBR Tube and NBR Cover

Temperature range:

From -40°C to +100°C, continuous operation

Main applications:

Use in CO2 Based Fire extinguisher Application. Safety factor 1:2.5

Caution:

Don't use this hose as in Hydraulic or, Tractor trolley application.



| Product | Hose ID | | NOM.HOSE OD | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS |
|---------|---------|-----|-------------|----------------------|-----|--------------------|-----|-----------------|
| | INCH | MM | MM | PSI | BAR | PSI | BAR | NM |
| 6 CO2 | 3/8 | 9.5 | 17.2 | 2450 | 170 | 7350 | 510 | 125 |

SAND BLAST HOSE

Tube:

Highly abrasion-resistant, synthetic rubber-black

Reinforcement:

One or two braids of high tenacity synthetic yarn. Two copper wires in opposite directions.

Cover:

Abrasion-resistant, NR-SBR-Black

Temperature range:

From -30°C to +70°C, continuous operation.

Main applications:

For conveying abrasive material like sand or shot blasting, mineral ores and other abrasive materials. Extra thick tube of 5.00 mm thickness for long service life in application. Two copper flexible wires woven in cross directions ensure the static charge dissipation. Meets or exceeds the performance requirements of IS 5894.



| Product | Hose ID | | NOM.HOSE OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|---------|---------|------|----------------------|-------------------------|-----|-----------------------|-----|--------------------------|
| | INCH | MM | | PSI | BAR | PSI | BAR | |
| 12 SB | 3/4 | 20 | 38.5 | 145 | 10 | 435 | 30 | 200 |
| 16 SB | 1 | 25 | 45.2 | 145 | 10 | 435 | 30 | 300 |
| 20 SB | 1-1/4 | 31.5 | 52.6 | 145 | 10 | 435 | 30 | 400 |
| 24 SB | 1-1/2 | 38 | 59 | 145 | 10 | 435 | 30 | 450 |
| 32 SB | 2 | 50 | 72.5 | 145 | 10 | 435 | 30 | 500 |

SUPREME SAND BLAST HOSE

Tube:

Highly abrasion-resistant, and conducting synthetic rubber-black

Reinforcement:

One or two braids of High tenacity synthetic Yarn

Cover:

Abrasion-resistant, NR-SBR-Black

Temperature range:

From -30°C to +70°C, continuous operation.

Main applications:

These are compact Hoses for conveying abrasive material like Sand or, Shot blasting, Mineral ores and other abrasive materials where Working pressure requirement is 14 Bar. Tube is conducting in nature, so need for Copper wire is not required. Bend Radius is tighter than Sandblast Hose which ensures it remain more flexible compared to same size Sandblast Hose



| Product | Hose ID | | NOM.HOSE OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|---------|---------|------|-------------------|----------------------|-----|--------------------|-----|-----------------------|
| | INCH | MM | | PSI | BAR | PSI | BAR | |
| 12 SSB | 3/4 | 20 | 33.3 | 200 | 14 | 800 | 56 | 175 |
| 16 SSB | 1 | 25 | 39.6 | 200 | 14 | 800 | 56 | 225 |
| 20 SSB | 1-1/4 | 31.5 | 48.5 | 200 | 14 | 800 | 56 | 250 |
| 24 SSB | 1-1/2 | 38 | 55.8 | 200 | 14 | 800 | 56 | 300 |
| 32 SSB | 2 | 50 | 67.5 | 200 | 14 | 800 | 56 | 400 |

CNG HOSE SAEJ30R6 AND IS:15722

Tube:

Specially compounded oil-resistant NBR (Black)

Reinforcement:

One Braid of high tenacity yarn

Cover:

Oil and ozone resistance NBR/PVC-Black

Temperature range:

From -40°C to +100°C, continuous operation

Main applications:

These Hoses are intended to be used on motor vehicles, 2-wheeler, and construction equipment's (CEV) as a flexible low-pressure CNG Fuel system component having service pressure not exceeding 21.5 Bar.

Caution:

This is not to be used in Liquefied Natural Gas (LNG) fuel system components located upstream of and in a vaporizer, Fuel containers, stationary gas engines, or CNG fuel systems for marine craft propulsion. Conforms to SAE J30 R6 and IS 15722 specifications.



| Product | Hose ID | | NOM.HOSE OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|---------|---------|------|-------------------|----------------------|-----|--------------------|-----|-----------------------|
| | INCH | MM | | PSI | BAR | PSI | BAR | |
| 4 CNG | 1/4 | 6.3 | 12.8 | 305 | 21 | 1220 | 84 | 75 |
| 5 CNG | 5/16 | 8 | 14 | 305 | 21 | 1220 | 84 | 90 |
| 6 CNG | 3/8 | 10 | 15.7 | 305 | 21 | 1220 | 84 | 100 |
| 8 CNG | 1/2 | 12.5 | 19.8 | 305 | 21 | 1220 | 84 | 125 |
| 10 CNG | 5/8 | 16 | 23.8 | 305 | 21 | 1220 | 84 | 150 |
| 12 CNG | 3/4 | 20 | 28.5 | 305 | 21 | 1220 | 84 | 150 |
| 16 CNG | 1 | 25 | 34.5 | 305 | 21 | 1220 | 84 | 200 |

HEATER HOSE

Tube:

Specially compounded oil-resistant NBR
(Black)

Reinforcement:

One Braid of high tenacity yarn

Cover:

Oil and ozone resistance NBR/PVC-Black (CR cover available on request)

Temperature range:

From -40°C to 100°C , continuous operation.
For air max T = +70°C

Main applications:

Transferring hot coolant or water, particularly in engine cooling systems and heater systems. Conforms to SAE J20 Specification



| Product | Hose ID | | NOM.HOSE OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|---------|---------|------|----------------------|-------------------------|-----|-----------------------|-----|--------------------------|
| | INCH | MM | | PSI | BAR | PSI | BAR | |
| 8 HH | 1/2 | 12.5 | 20.5 | 60 | 4.1 | 249 | 172 | 125 |
| 10 HH | 5/8 | 16.0 | 23.8 | 60 | 4.1 | 249 | 172 | 150 |
| 12 HH | 3/4 | 20.0 | 27.0 | 60 | 4.1 | 249 | 172 | 150 |

NITRO EXPLOSIVE HOSE

Tube:

NBR/SBR – Oil- and abrasion-resistant synthetic rubber

Reinforcement:

One layer of high-tensile steel wire braid

Cover:

MSHA approved Synthetic Black Rubber with high abrasion, ozone and weather resistance

Temperature range:

From -40°C to 100°C

Main applications:

Emulsion Dispensing Hose application takes place at the blasting site in a drilled pit from a mobile delivery unit. Size available in 1-1/2" wrap finish



| Product | Hose ID | | NOM.HOSE OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|-------------------------------|---------|----|-------------------|----------------------|-----|--------------------|-----|-----------------------|
| | INCH | MM | | PSI | BAR | PSI | BAR | |
| 24 HIGH POWER EXPLOSIVE | 1-1/2 | 38 | 50.7 | 580 | 40 | 2320 | 160 | 500 |

GENERAL PURPOSE HOSE

Tube:

Specially Compounded synthetic rubber – EPDM Black

Reinforcement:

One Braid of high tenacity yarn

Cover:

Weather and Abrasion Resistance EPDM

Temperature range:

From -40°C to 100°C

Main applications:

High flexing conditions, wide variety of fluid exchange • ½" to ¾" – Black and Red Cover Wrap and Smooth Finish.

Note:

Sizes are available as per customer requirement.



| Product | Hose ID | | NOM.HOSE OD MM | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS NM |
|---------|---------|------|-------------------|----------------------|-----|--------------------|-----|-----------------------|
| | INCH | MM | | PSI | BAR | PSI | BAR | |
| 8 GPH | 1/2 | 12.5 | 20.9 | 200 | 14 | 800 | 56 | 125 |
| 12 GPH | 3/4 | 19 | 28.5 | 200 | 14 | 800 | 56 | 150 |

EXTREME HEAT HOSE

Tube:

Long Life oil-resistant Tube

Reinforcement:

High-tensile Steel Wire Braid

Cover:

Abrasion Resistance Cover with Pin Pricked

Temperature range:

From -40°C to 135°C

Main applications:

Air Compressor delivery lines / Pressurized oil, specially designed for Water Well Drilling Rigs and Equipment that supports operations. Sizes available are 1-1/2" and 2" wrap finish



| Product | Hose ID | | NOM.HOSE OD | MAX WORKING PRESSURE | | MIN BURST PRESSURE | | MIN BEND RADIUS |
|---------|---------|----|-------------|----------------------|-----|--------------------|-----|-----------------|
| | INCH | MM | MM | PSI | BAR | PSI | BAR | NM |
| 24 | 1-1/2 | 38 | 54.6 | 1250 | 86 | 5220 | 360 | 500 |
| 32 | 2 | 50 | 65.8 | 1160 | 80 | 4640 | 320 | 630 |

TECHNICAL

NOMOGRAM

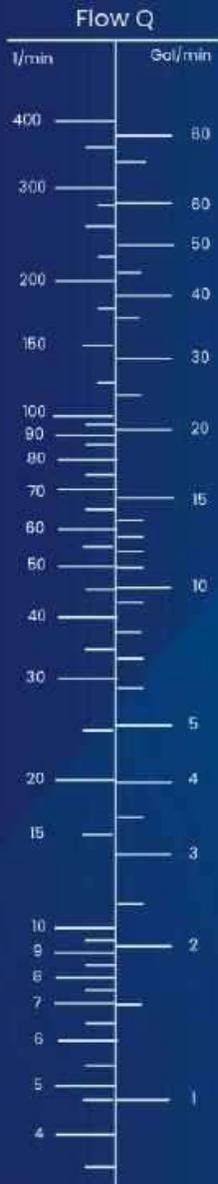
Determination of Nominal Diameter

The nomogram can be used as an aid to select the nominal diameters of hose and pipe assemblies.

Example:

Rate of flow $Q = 50 \text{ L/min}$ (left-hand scale), chosen speed $V = \text{approx. } 4\text{m/sec.}$ (Right-hand scale). The point of intersection on the middle scale gives a nominal diameter of 19.1mm. Other parameters of the installation, such as length of hose assemblies, number of valves, viscosity of the oil and maximum permissible pressure loss, must be taken into account when determining final nominal diameters. The nominal diameter can also be determined using the formula.

$$DN = \frac{Q \times 400}{\sqrt{V \times 3.14 \times 16}}$$



Where Q and V must be inserted as above. The values of the nomogram are based on hydraulic oils with maximum viscosity of S.S.U. (9°E) at +38°C (+100°F) at an operation temperature of between +18° (+65°F) and +68° (+155°F).

Inside Diameter d

| mm | dash size |
|------|-----------|
| 50.8 | -32 |
| 38.1 | -24 |
| 31.8 | -20 |
| 25.4 | -16 |
| 19.1 | -12 |
| 15.9 | -10 |
| 12.7 | -8 |
| 9.5 | -6 |
| 7.9 | -5 |
| 6.3 | -4 |
| 4.8 | -3 |



Recommended maximum velocity for return lines

Recommended maximum velocity for return lines

TECHNICAL

TROUBLESHOOTING

Typical Hose Failure modes

| Failure Mode | Possible Causes |
|--|--|
| Improper application | <ul style="list-style-type: none"> • Overload - pressure • Overload - mechanical • Deterioration of hose material • Twisting damage • Too sharp bends |
| Outer sheath wear | <ul style="list-style-type: none"> • Too sharp bends • Inadequate abrasion protection • Incorrect material selection |
| Improper assembly & installation | <ul style="list-style-type: none"> • Overload - pressure • Overload - mechanical • Incorrect material selection • General wear and age maturity • Fatigue and cyclic loading |
| Fitting corrosion | <ul style="list-style-type: none"> • Inadequate corrosion protection • Incorrect material selection |
| Reinforcement wire corrosion | <ul style="list-style-type: none"> • Inadequate abrasion protection • Incorrect material selection |
| Hose / fitting separation | <ul style="list-style-type: none"> • Compression set of hose material • Loss of compression pressure on hose • Overload - pressure • Overload - mechanical • Mismatched components • Poor assembly practices |
| Outer layer's of the hose got damaged | <ul style="list-style-type: none"> • Abrasion damage of hose due to foreign material • Hoses rubbing with each other • Inadequate hose cover material |
| De-lamination of inner hose | <ul style="list-style-type: none"> • Excessive vacuum conditions • Hose working under excessive & prolonged vacuum conditions • Material degradation |
| Fatigue failure of reinforcing mesh | <ul style="list-style-type: none"> • Incorrectly selected hose causing too high velocity (refer nomograph) • Cyclic/random bending of hose • Cyclic/random pressure changes |
| Hose deterioration | <ul style="list-style-type: none"> • Fluid/material compatibility • Ultraviolet radiation • Temperature • Ozone • Environmental surrounding hose • Solvents |

TECHNICAL

HOSE IN-SERVICE INSPECTION CHECK LIST

For the hose in-service checks, one should look for

- ✓ Visual evidence of leaks along the hose or around the hose ends.
- ✓ Degraded hose, hard, stiff, charred, blistered, soft, heat cracked hose.
- ✓ Exposed, damaged, corroded or broken outer braid wires.
- ✓ Wear & abrasion.
- ✓ Bulges, blistered, soft, degraded or loose outer covers.
- ✓ Outer cover sheath damage, cuts in the hose cover or cracked and heat affected.
- ✓ Kinked, crushed, flattened or twisted hose.
- ✓ Wrong bend radius.
- ✓ Incorrect hose routing.
- ✓ Incorrect length of the hose.
- ✓ Permanent or physical damage to the hose.
- ✓ Hoses too close to heat emitting sources.
- ✓ Hoses tangled with moving parts.
- ✓ Cracked, damaged, or badly corroded hose ends or adaptors.
- ✓ Unsecured or loose hoses & fittings.
- ✓ Damaged fitting threads.
- ✓ Inspection of staples (broken, twisting, cracked or "walking out").
- ✓ Any other sign of deterioration.
- ✓ Hose exceeding shelf life before installation.
- ✓ Hose exceeding its designed service life.
- ✓ Visual evidence of hose and endfitting.

TECHNICAL

SAFETY CONSIDERATION

Following are some potential conditions that can lead to personal injury and cause damage to the property.

1. As certain fluids may permeate the hose cover, the area where hose is used should be adequately ventilated.
2. Hydraulic systems generally operate at very high pressure. Any leak of pressurised fluid can prostrate the human skin, causing severe tissue damage and burns. Consider the use of guards or shields around the hose assembly to reduce the risk of any injury.
3. Hydraulic fluids are flammable and can explode with a source of ignition. To avoid possible injury or property damage, care should be taken to eliminate ignition sources and to properly route the hose assembly to minimize the chance of any combustion.
4. Hoses are conductive in nature. In some cases a non-conductive hose is required. To avoid electrocution or other serious mishap, the hose with correct specifications, either conductive or non-conductive, should be used.
5. In case hose assembly fails, loss of hydraulic pressure will affect the operation of the equipment. Care should be taken that a sudden power loss of the equipment will not cause any personal injury.
6. When air or gaseous materials are being conveyed, it is necessary to use a pin-pricked-cover hose. The pricking of the cover will prevent permeated gases from blistering and accumulating on the surface of the hose.
7. Extreme care should be taken while operating hand held hydraulic tools where the operator is in the proximity of hydraulic hose assembly.

Following precautions should be taken to avoid any injury.

- a) Use strain relievers on each end of the hose to prevent kinking, excessive bending, or stress on the hose at the couplings.
- b) Never use the hose assembly to pull or carry the tool.
- c) Exposed hose near the operator should be guarded so that he remains safe from high pressure or high temperature fluids, in case the hose assembly fails.
- d) Operator of the tool should be protected with the required safety clothing considering the job and fluid being used.
- e) The hose should be protected against any external damage.
- f) Hose assemblies should be properly routed to avoid strain and the possibility of hose bursting. Proper routing will also protect the assembly against flex fatigue, excessive heat & abrasion.

HOSE MAINTENANCE AND STORAGE

Maintenance:

- It is advised to carry visual inspection and hydrostatic test at periodic intervals to check whether the hose is suitable for continued service or not.
- A visual inspection of the hose should be done for damaged covers, kinks, bulges or soft spots, which might indicate failures in the structure.
- The periodic inspection should include a hydrostatic test for one minute at 150% of the recommended hose working pressure.
- During the test, the hose has to be laid straight, it should not be in a coiled or in kinked position. Water is the usual test medium and after the test, hose can be flushed with alcohol to remove the traces of moisture. A regular schedule for testing should be followed and inspection records should be maintained.
- Never use air or compressed gas to test the hose as the hose may explode. Such failure might result in serious body injury or damage the equipment or property around.
- Air should be removed from the hose by bleeding it through an outer valve while the hose is being filled.
- Hose to be tested must be restrained by placing proper steel containers in order to minimise the impact of "whipping" if a failure occurs. The hose has to be free for easy movement during test.
- The hose outlet has to be cupped in order to prevent any fitting blown-out.
- Sufficient care should be taken to protect the person engaged in testing. He should never stand in front or at the back of the ends of the hose which is being tested.
- When gasoline, oil, solvent or any other hazardous fluids are used as a test fluid, precautions must be taken to prevent fire or physical damage in case the hose fails. The test fluid is likely to spread and catch fire.

Storage:

- Rubber products if stored for a prolonged period are likely to be adversely affected by excessive temperature, humidity, ozone, sunlight, oils, solvents, corrosive liquids, smoke, insects, rodents and radioactive materials. The appropriate method for storing hose, depends to a great extent on its size, the quantity to be stored, and the way in which it is packed.
- Hose should not be piled or stacked too high. The weight of the piled hoses can cause serious damage to the hoses kept at the bottom.
- Hose with thin walls will not support as much as a hose having a heavy wire reinforcement. Hose which is shipped in coils should be stored in order that coils are in a horizontal plane.
- If possible, rubber hose products should be stored in their original shipping containers, especially when such containers are wooden spools or cardboard cartons which provide some protection against action of oils, solvents and corrosive liquids; and also renders them for some protection against ozone and sunlight also.
- The ideal temperature for the storage of rubber products ranges from 10-20°C (50-70°F), with a maximum limit of 40°C (105°F).
- If stored below 0°C (32°F), some rubber products become stiff and would require warming before being placed in service.
- Rubber products should not be stored near the sources of heat, such as radiators, heaters, etc., nor should they be stored under conditions of high humidity, or high ozone or near electric motors.

SAFETY INSTRUCTIONS

FOR YOUR SAFETY

It is required that machinery is designed, manufactured and maintained in accordance with international directives such as 2006 42/EC that ensures components of the machinery are suitable for use.



WARNING: Never underestimate the risks of hydraulic hose failure.

There are seven recognised risk factors associated with hydraulic power- Fluid Injection, Pressure, Fire, Electrical, Environmental, Temperature and Mechanical. To avoid injury to yourself and others please adhere to (BS / EN) ISO 4413-2010 when specifying, producing, fitting and using hydraulic hose assemblies.

Serious injury, damage to equipment, or fatal accidents can occur from rupture or blowout of a hydraulic hose that is

✔ Worn or damaged ✔ Incorrectly installed or assembled ✔ Not suited for the application

SAFETY GUIDELINES

Get trained with JK Fenner experts.

JK Fenner offer a range of training opportunities for those designing, assembling, fitting or using hydraulic hose assemblies which provide information on international legislation, the correct choice of components for each application, the production of correct hose assemblies and their safe fitting to machinery.

Use only JK Fenner certified hose and matched end fittings.

Never mix and match different brands. ISO 4413-2010 – “Hoses and hose assemblies shall comply with minimum performance requirements and will have been validated to international standards via testing”.

Hydraulic Hose Replacement.

ISO 4413-2010 “Hose Assemblies shall NOT be constructed from hoses which have been previously used as part of a hose assembly, Repair (re-joining) hose assemblies is strictly forbidden”.

If you suspect a leak in the hydraulic system.

Turn off the machine and isolate power, wait for the system to cool down, look for pools of oil – don't feel for them! If you suspect that you have received a fluid injection injury seek urgent medical attention.

SAFETY INSTRUCTIONS

Select and install hose assemblies with care

Do's ✓

- **Choose the correct hose** for the application, ensuring it can withstand the internal and external stresses (ISO 4413/2010 9.5.1).
- **Ensure correct hose routing** to minimise risks such as hose whipping, oil projection, twisting, sharp bends, pulling, heat exposure, abrasion, or aggressive environments (ISO 4413/2010 9.5.2).
- **Follow manufacturer crimp data** and written instructions when assembling hoses (ISO 4413/2010 & ISO 413/2010).
- **Replace hoses** showing signs of wear, bulges, leaks, or damage.
- **Respect storage and service time limits** recommended by the hose manufacturer (ISO 4413/2010 9.5.1).
- **Ensure pressure ratings** of hoses and connectors meet or exceed the system's requirements.
- **Use replacement parts** that are equal to or better than the original in terms of pressure, temperature, and fluid compatibility (ISO 4413/2010 9.5.1 / 8.1.2.1).
- **Conduct risk assessments** to identify hazards, determine who might be harmed, evaluate risks, and decide on precautions.

Don't's ✗

- **Don't use hoses** that are not designed or constructed for the expected stresses.
- **Don't route hoses** in ways that cause excessive twisting, sharp bends, pulling, or expose them to heat, abrasion, or aggressive environments.
- **Don't ignore manufacturer assembly instructions** or use incorrect crimp data.
- **Don't re-crimp** hoses that have been previously used (ISO 4413/2010 9.5.1).
- **Don't reuse damaged hoses** or hose assemblies.
- **Don't use hoses or connectors** with a lower pressure rating than the system.
- **Don't replace parts** with lower quality or incompatible components.
- **Don't neglect** regular inspection and risk assessment.

Follow Good Maintenance Practices

Establish an inspection schedule.

Check assemblies before each use.

Replace hoses showing signs of damage or degradation.

Keep records of service intervals and replacement dates.

AVOID INJECTION INJURIES

- A small pinhole leak under pressure can inject fluid into the body.
- Do not use hands to check for leaks.
- Use a cardboard or a wood sheet instead.
- If injured, seek emergency care immediately. Delay can lead to severe complications or amputation.

OTHER SAFETY INFORMATION

- JK Fenner recommends referring to ISO 4413 and SAE J1273 for guidelines on hydraulic hose use.
- Always use genuine JK Fenner hoses, fittings, and tools to ensure compatibility and performance.

For crimping data and support,

Contact the JK Fenner technical team

● *JK Fenner shall not be liable for injuries, equipment damage, or losses due to the misuse, unauthorized reassembly, or improper application of hose assemblies. Always follow product-specific installation and handling instructions.*

HOSE INSTALLATION & MAINTENANCE

SAE Recommended Practices for Hydraulic Hose and Hose Assemblies

The SAE J1273 guidelines recommend practices while selecting, routing, fabricating, installing, replacing, maintaining and storing hoses for Fluid Power Systems. SAE J1273 standard recommends following good practices which can increase life of the hose assembly.

These recommended practices take into account safety of human and systems, maximizing life of hose and its assemblies.

- Select proper hose for the application. Simply matching ID/OD is not enough but it should be along with type of hose.
- Hydraulic components selection should also be based on application temperature, pressure and bend radius. Don't exceed recommended component limits.
- Hose must not be stretched, kinked, crushed or twisted while installing or during its use.
- Hose must not be bent to less than its recommended minimum bend radius.

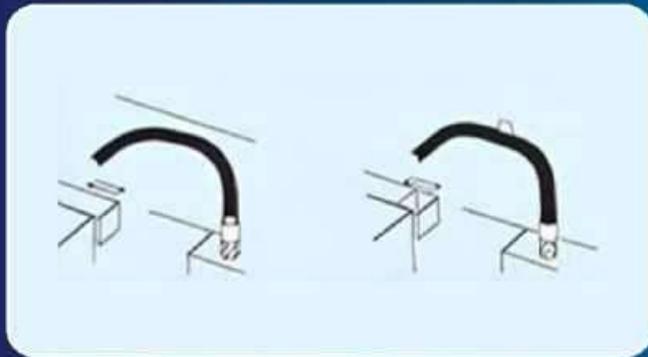
Assembly Orientation & Length Notification: Correct Assembly Length



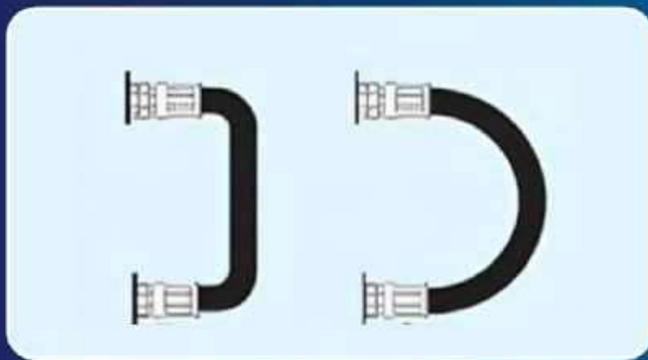
HOSE INSTALLATION & MAINTENANCE



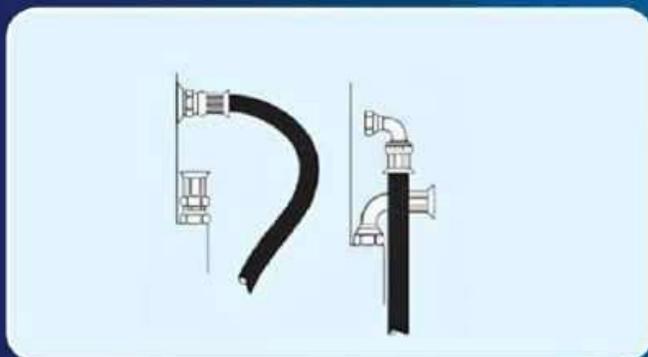
HOSE INSTALLATION & MAINTENANCE



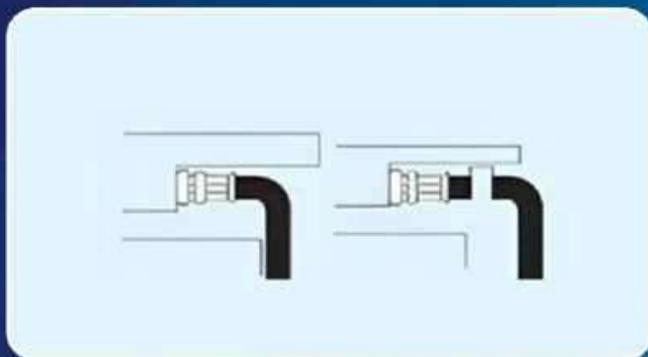
Avoid the twisting of hose lines, bend in two planes by clamping hose at the change of the plane.



To avoid hose-collapse and flow restrictions, keep the hose bend radius as large as possible.



Elbows and adaptors should be used to relieve strain on the assembly and to provide neater installations in order to facilitate inspection and maintenance at an ease.



Run the hose so as to avoid rubbing and abrasion. Often clamps are required to support longer hose runs or to keep hose away from moving objects. Use clamps of the correct size. Too large clamps allow hose to move inside the clamp causing abrasion.

STAMPED

S Size of hose



The hose I.D must minimize pressure loss and prevent damages from heat generation caused by excessive turbulence.

T Temperature



The hose must be capable of withstanding the system's minimum and maximum fluid and ambient temperature.

A Application



Determine where or how the hose assembly will be used.

M Material to be conveyed



The hose tube, cover and coupling must be compatible with the fluid being conveyed.

P Pressure



Published hose working pressure must equal or exceed the normal system pressure, including spikes.

E Ends of coupling



Identify the sealing methods the system uses and select the proper coupling and adapters.

D Delivery



Determine the hose size needed to deliver the required fluid volume without losing pressure or adding unnecessary weight.

HOW LONG WILL A HYDRAULIC HOSE ASSEMBLY LAST?

CAUTION

It depends on how it's used. This catalog and other JK Fenner literature show the recommended limits for our assemblies (and also the hoses and couplings used to make these assemblies). These limits include installation, maintenance, and conditions of use. These limits **MUST** be followed or the assembly can fail resulting in personal injury or property damage.

Hose assemblies in use should be inspected regularly for leaks, kinks, cover blisters, gouges, abrasion, and other damage. Damaged or worn assemblies must be replaced immediately.

You can increase assembly life if you do the following:



HOSE ASSEMBLY INSTALLATION

Hydraulic hose assembly installations should comply with hydraulic hose routing and plumbing standards per SAE J1273 for the proper application of hose assemblies.



PRESSURE

The hydraulic system pressure should not exceed the rated working pressure of the hose. Pressure surges or peaks exceeding the rated working pressure are destructive and must be taken into account when selecting a hose.



BURST PRESSURE

Burst pressure is the maximum internal pressure a hydraulic rubber hose can withstand before rupture. Usually it is a multiple of the rated working (maximum operating) pressure.

Burst pressure = 4×W.P



TEMPERATURE RANGE

Do not expose hose to internal or external temperatures exceeding the recommended limits. Consult additional technical data when hydraulic fluids contain emulsions or solutions. The fluid manufacturer's maximum operating recommended temperature for any given fluid must not be exceeded, regardless of that temperature range.



FLUID COMPATIBILITY

The hydraulic assembly (tube, cover, reinforcement, and couplings) must be fluid compatible. The correct hose must be used because phosphate ester and petroleum-based hydraulic fluids have drastically different chemical characteristics. Many hoses are compatible with one or the other, but not all fluids.

HOW LONG WILL A HYDRAULIC HOSE ASSEMBLY LAST?



MINIMUM BEND RADIUS

Do not bend or flex hose to a radius smaller than the minimum recommended and do not subject the hose to tension or torque. This can place excessive stress on the reinforcement and severely reduce the ability of the hose to withstand pressure.



HOSE SIZE

Hose size (internal diameter) must be capable of handling the required flow volume. Too small an I.D. for a given volume of flow results in excessive fluid pressure and heat generation which can result in tube damage.



HOSE ROUTING

Restrain, protect or guide hose, with clamps if necessary, to minimize the risk of damage due to excessive flexing, whipping contact with other moving parts, corrosives, or abrasive surfaces. Determine hose lengths and configurations that protect against abrasion, snagging, or kinking, and ensure leak-resistant connections.



HOSE LENGTH

Correct hose length should include considerations for length changes under pressure, machine vibration and motion, and hose assembly routing.



HOSE APPLICATIONS

Select the proper hose for the application.

Hose Shelf Life

Storage environment and rubber materials can influence shelf life. Shelf life is difficult to quantify as many variables affect the hose. Proper storage can extend shelf life to a minimum of three to five years. Beyond this time there can be significant service life decrease, depending on variables like storage environment.

PRESSURE CONVERSION CHART

METRIC TO PSI (1 kPa = .145 psi)

| Kilo Pascals (kPa) | Mega Pascals (MPa) | Bar (Bar) | Pounds per Square Inch (psi) |
|-----------------------|-----------------------|-----------|---------------------------------|
| 100 | 0.1 | 1 | 14.5 |
| 200 | 0.2 | 2 | 29 |
| 300 | 0.3 | 3 | 43.5 |
| 400 | 0.4 | 4 | 58 |
| 500 | 0.5 | 5 | 72.5 |
| 600 | 0.6 | 6 | 87 |
| 700 | 0.7 | 7 | 101.5 |
| 800 | 0.8 | 8 | 116 |
| 900 | 0.9 | 9 | 130.5 |
| 1000 | 1 | 10 | 145 |
| 2000 | 2 | 20 | 290.1 |
| 3000 | 3 | 30 | 435.1 |
| 4000 | 4 | 40 | 580.2 |
| 5000 | 5 | 50 | 725.2 |
| 6000 | 6 | 60 | 870.2 |
| 7000 | 7 | 70 | 1015 |
| 8000 | 8 | 80 | 1160 |
| 9000 | 9 | 90 | 1305 |
| 10000 | 10 | 100 | 1450 |
| 20000 | 20 | 200 | 2901 |
| 30000 | 30 | 300 | 4351 |
| 40000 | 40 | 400 | 5802 |
| 50000 | 50 | 500 | 7252 |
| 60000 | 60 | 600 | 8702 |
| 70000 | 70 | 700 | 10153 |
| 80000 | 80 | 800 | 11603 |
| 90000 | 90 | 900 | 13053 |
| 100000 | 100 | 1000 | 14504 |
| 200000 | 200 | 2000 | 29008 |
| 300000 | 300 | 3000 | 43511 |

PRESSURE CONVERSION CHART

PSI TO METRIC (1 psi = 6.89 kPa)

| Pounds per Square Inch (psi) | Kilo Pascals (kPa) | Mega Pascals (MPa) | Bar (Bar) |
|------------------------------|--------------------|--------------------|-----------|
| 10 | 68.9 | 0.07 | 0.7 |
| 20 | 137.9 | 0.14 | 1.4 |
| 30 | 206.8 | 0.21 | 2.1 |
| 40 | 275.8 | 0.28 | 2.8 |
| 50 | 344.7 | 0.34 | 3.4 |
| 60 | 413.7 | 0.41 | 4.1 |
| 70 | 482.6 | 0.48 | 4.8 |
| 80 | 551.6 | 0.55 | 5.5 |
| 90 | 620.5 | 0.62 | 6.2 |
| 100 | 689 | 0.7 | 6.9 |
| 200 | 1379 | 1.4 | 13.8 |
| 300 | 2068 | 2.1 | 20.7 |
| 400 | 2758 | 2.8 | 27.6 |
| 500 | 3447 | 3.4 | 34.5 |
| 600 | 4137 | 4.1 | 41.4 |
| 700 | 4826 | 4.8 | 48.3 |
| 800 | 5516 | 5.5 | 55.2 |
| 900 | 6205 | 6.2 | 62.1 |
| 1000 | 6895 | 6.9 | 68.9 |
| 2000 | 13790 | 13.8 | 147.9 |
| 3000 | 20684 | 20.7 | 206.8 |
| 4000 | 27579 | 27.8 | 275.8 |
| 5000 | 34474 | 34.5 | 344.7 |
| 6000 | 41369 | 41.4 | 413.7 |
| 7000 | 48263 | 48.3 | 482.6 |
| 8000 | 55158 | 55.2 | 551.6 |
| 9000 | 62053 | 62.1 | 620.5 |
| 10000 | 68948 | 68.9 | 689 |
| 20000 | 137895 | 137.9 | 1379 |
| 30000 | 206853 | 206.8 | 2068 |
| 40000 | 275790 | 275.8 | 2758 |

Customer name:
Hose Description:
Date:

| Input description | Remark |
|--|--------|
| 1.Application requirements: | |
| a.Application area | |
| b.Temperature (including time-span) | |
| Maximum/ Minimum | |
| Average | |
| c.Material to be conveyed | |
| d.Material flow rate | |
| e.Average workinghours | |
| 2.Pressure requirements: | |
| a.Working pressure | |
| b.Test pressure (proof pressure),test duration, test medium | |
| c.Burst pressure | |
| d.Surge pressure /peak pressure | |
| 3.Ambient condition : | |
| a.Temperature | |
| b.Humidity | |
| c.Others (oil / chemical /dusty /water/marine/ozone&cold) | |
| 4.Dimensional requirements: | |
| a.Outer diameter | |
| b.Reinforcement diameter | |
| c.Internal diameter | |
| d.Concentricity B,R to O.D | |
| e.Concentricity I.D to O.D | |
| f.Minimum bend radius | |
| g.Avg weight per meter | |
| h.Specifidlength /coillengthtodispatch | |
| 5.Functional & performance requirements: | |
| a.Required impulsecycle | |
| b.Average expected life | |
| c.Customer specific performance requirement | |
| d.Customer specific test requirement | |
| e.Traceabilityrequirement | |
| 6.Reference specification: | |
| a.Standard &Drawings | |
| b.Customer sample/Competitor product (if needed): | |
| c. Competitor name (If Any) | |
| d. Brand name | |
| e. Sample available? | |
| f. Analysis report | |
| g. Competitor'scatalogue | |
| 7.Miscellaneous requirements: | |
| a . Mostcommon failuremode | |
| b. Consequences of failure c. Expected business volume d. Specific color requirement e. Expected cost of product or material cost f. Expected time of realization of product | |
| g. Business opportunityinamount (INR/Month) | |
| 8.Statutory & regulatory requirements: | |
| 9.Branding requirements: | |
| 10.Packaging requirements: | |
| Notes | |

JK Pioneer

FOR PRODUCT TRAINING & INFORMATION, CONTACT OUR TEAM.

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