



Hose Solutions



MINING INDUSTRY PROFILE

Mining environments demand reliable and durable equipment that can withstand harsh conditions and continuous operation. Hose Solutions supplies a comprehensive range of hoses for mining applications, including slurry transfer, dewatering, hydraulics, drilling, material handling and mineral processing.

ABOUT US

HOSE SOLUTIONS SPECIALISE IN SUPPLYING AND MANUFACTURING HOSE AND FITTINGS FOR A WIDE RANGE OF APPLICATIONS AND INDUSTRIES

With over 20 years of experience Hose Solutions has created a favourable reputation with our vast experience and knowledge within the hose and pipe industry.

Hose Solutions have formed strong relationships with other players in this industry and strive to

pursue long-term relationships with suppliers and customers. Their customer base is spread

throughout South Africa and Southern Africa. Hose Solutions also have stainless steel metal hose fabrication capabilities allowing them to manufacture to your special requirements.

Hose Solutions strive to make your job of buying quality hose and fittings easy and hassle free.



Why Choose hose Solutions?

- **Mining Durability:** Built to handle abrasive slurry, rock, mud and heavy-duty mining conditions where wear and impact are common.
- **Abrasion Resistance:** Hose solutions designed for demanding applications such as slurry, sand, aggregate and mineral transfer.
- **Reliable Under Pressure:** Suitable for high-pressure hydraulic, drilling, dewatering and process applications, helping reduce downtime and hose failures.
- **Application Versatility:** Solutions for slurry transfer, dewatering, drilling, hydraulic systems, material handling, mineral processing and chemical/process fluid transf



Typical Applications of Mining Hoses

Mining hoses are used in some of the toughest working environments, where hoses need to handle heavy-duty use, abrasive materials and demanding operating conditions. The right hose helps keep material moving safely and efficiently while reducing downtime and maintenance.

Common mining applications include:

- Slurry and abrasive material transfer
- Mine dewatering and water transfer
- Tailings and process water
- Mud, sand and sediment transfer
- Mineral and ore processing
- Sand, gravel and aggregate handling
- Pump suction and discharge lines
- Dust suppression and water spraying
- Air and water supply
- Chemical and process fluid transfer
- Crusher and screening plant applications
- Underground and surface mining
- General material handling



MINING APPLICATION GUIDE:



Mine dewatering: Keliflex Green, Keliflex Yellow, Water S&D Hose, Layflat, Rubber Water S&D Hose and Mineflex.

Slurry / abrasive slurry: ALFAGOMMA 706AA, Keliflex Green and selected abrasive-lined rubber hoses.

Water transfer: Keliflex Green or Yellow, Water S&D Hose, Layflat, Rubber Water S&D and Mineflex.

Dry bulk / cementitious material: ALFAGOMMA 720AA, 752AA and 757AA.

Compressed air / pneumatic tools: Barelli Mining Hose, Yellow Compressor Hose and Multipurpose Hose.

Hydraulic machinery: 1-Wire, 2-Wire and Multi-spiral hydraulic hoses.

Chemical / process fluids: PTFE convoluted metallic hose, ALFAGOMMA T509 chemical hose

PRODUCT PORTFOLIO

KELIFLEX YELLOW – MEDIUM DUTY



PRODUCT DESCRIPTION:

Spirally reinforced PVC suction and delivery hose for flexible transfer of liquids and mixtures. The medium-duty Keliflex is supplied in opaque yellow and is suited to general mining and industrial fluid-transfer duties.

KEY SPECIFICATIONS

- Construction: spirally reinforced PVC; convoluted outer surface
- Length: 30 m standard lengths
- Colour: opaque yellow
- Temperature: 0 °C to +60 °C
- Flexible, smooth-bore, full-flow design
- Vacuum capable

ADVANTAGES

- Super flexible and easy to route
- UV stabilised
- Abrasion, shock and crush resistant
- Suitable for suction and delivery
- Non-toxic PVC construction

MINING USES & APPLICATIONS

- Mine dewatering support lines
- Water transfer around mining plants
- Sewage and dirty-water transfer
- General industrial fluid transfer



PRODUCT PORTFOLIO

KELIFLEX GREEN – HEAVY DUTY MINING HOSE

PRODUCT DESCRIPTION:

Heavy-duty spirally reinforced PVC suction and delivery hose developed for demanding fluid-transfer applications including open-cast mine dewatering, mining, dredging and industrial service.

KEY SPECIFICATIONS:

- Construction: spirally reinforced heavy-duty PVC
- Standard length: 30 m
- Available size range: 150–300 mm
- Green standard; yellow/clear also available
- Temperature: 0 °C to +60 °C
- Can withstand vacuum

ADVANTAGES:

- High flexibility for difficult routing
- Smooth bore supports full flow
- Abrasion, shock and crush resistant
- UV stabilised
- Suitable for suction and delivery

MINING USES & APPLICATIONS:

- Open-cast mine dewatering
- Mining water transfer
- Dredging and offshore diamond dredging
- Industrial and civil fluid transfer



PRODUCT PORTFOLIO

BARELLI MINING HOSE

PRODUCT DESCRIPTION:

A mining hose designed for South African mining conditions, providing a flexible solution for water and air conveyance and pneumatic mining equipment.

KEY SPECIFICATIONS:

- PVC liner with PVC cover
- High-tenacity polyester yarn reinforcement
- Available in orange, blue and green
- Range: 10–50 mm
- SANS 1086-2015 certified according to manufacturer
- Temperature: 0 °C to +60 °C

ADVANTAGES:

- Super flexible
- UV stabilised smooth bore
- Abrasion, shock and crush resistant
- Suitable for rugged mining service
- Proudly made in South Africa

MINING USES & APPLICATIONS:

- Water conveyance
- Compressed-air service
- Compressor connections
- Jackhammers and pneumatic tools
- General mining service



PRODUCT PORTFOLIO

MALCORP MULTIPURPOSE HOSE – 20 BAR

PRODUCT DESCRIPTION:

A general-purpose industrial rubber hose for applications where air, water or oil may be used on separate occasions. It is suited to mining maintenance and plant service duties rather than abrasive or chemical slurry transfer.

KEY SPECIFICATIONS:

- Black smooth synthetic-rubber tube
- High-strength synthetic-yarn reinforcement
- Red smooth weather/ozone-resistant cover
- Working pressure: 20 bar up to 1 in
- Working pressure: 15 bar for 1¼–2 in
- Burst pressure: 60 bar up to 1 in; 45 bar for 1¼–2 in
- Temperature: -20 °C to +70 °C

ADVANTAGES:

- Multi-purpose service capability
- Good pressure rating for general service
- Weather and ozone resistant cover
- Long available lengths
- Suitable for routine plant maintenance

MINING USES & APPLICATIONS:

- Workshop air lines
- Water washdown
- Oil service where approved
- Maintenance and utility connections
- Plant service lines



PRODUCT PORTFOLIO

WATER SUCTION & DELIVERY HOSE



PRODUCT DESCRIPTION:

Water suction and delivery hose for pumping and transferring water in industrial and mining environments. The hose is suited to dewatering and utility water duties where a flexible suction/discharge connection is required.

KEY SPECIFICATIONS:

- Mandrel-wrapped rubber hose construction available
- Water suction and discharge service
- A documented 2 in example is rated 10 bar working / 30 bar burst
- Size, temperature and pressure ratings vary by hose construction
- Confirm final technical data against current Malcorp datasheet before ordering

ADVANTAGES:

- Combined suction and delivery capability
- Flexible connection between pumps and pipe
- Suitable for water-transfer duties
- Available in different constructions and sizes

MINING USES & APPLICATIONS:

- Mine dewatering
- Pump suction and discharge
- Process-water transfer
- Water treatment and utility lines
- General plant water service



PRODUCT PORTFOLIO

LAYFLAT HOSE – RED & BLUE

PRODUCT DESCRIPTION:

Layflat water hose designed for fast deployment, pumping and dewatering. Its collapsible construction makes it practical for temporary and frequently relocated mining water lines.

KEY SPECIFICATIONS:

- Sizes: 25–200 mm across the Truco layflat range
- Working pressure: 3–21 bar depending on construction
- Blue PVC: 25–150 mm; burst up to 900 kPa
- Red PVC: 40–200 mm; burst up to 1 800 kPa
- Lightweight, collapsible construction
- UV-resistant cover options

ADVANTAGES:

- Easy storage
- Lightweight and easy to transport
- Fast deployment and retrieval
- Suitable for temporary water pumping
- Available in red and blue variants

MINING USES & APPLICATIONS:

- Mine dewatering
- Temporary water transfer
- Tailings/process-water pumping support
- Construction and civil water pumping
- Emergency bypass water lines



PRODUCT PORTFOLIO

YELLOW COMPRESSOR HOSE

PRODUCT DESCRIPTION:

Yellow compressor/air hose for compressed-air service in demanding industrial and mining environments. Designation Hose supplies specialised hosing for compressed air used in mining, borehole and construction applications.

KEY SPECIFICATIONS:

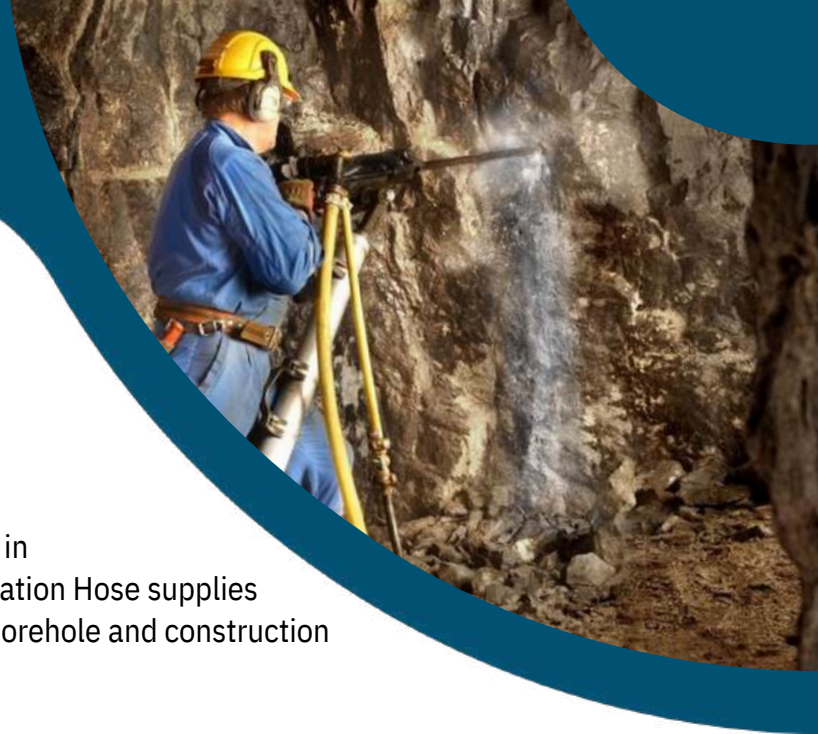
- Yellow compressor-air hose configuration
- Designed for compressed-air service
- Product pressure and temperature ratings depend on selected construction/size
- Designation also lists specialised mining and compressed-air hoses
- Confirm exact pressure rating and size from the current product datasheet

ADVANTAGES:

- Suitable for compressed-air service
- High visibility yellow colour
- Designed for rugged industrial use
- Useful for mobile compressor and pneumatic-tool connections

MINING USES & APPLICATIONS

- Compressed-air distribution
- Jackhammer air lines
- Pneumatic mining tools
- Drilling and construction equipment
- Workshop and plant air service



PRODUCT PORTFOLIO

ALFAGOMMA 706AA – ABRASIVE SLURRY S&D

PRODUCT DESCRIPTION:

Heavy-duty abrasive slurry suction and delivery hose designed specifically for mining applications involving abrasive slurries and bulk materials.

KEY SPECIFICATIONS:

- Tube: black conductive NR, abrasion resistant
- Abrasion resistance: 50 mm³ (ISO 4649/A)
- Reinforcement: high-tensile textile cords with embedded steel helix wire
- Cover: black conductive SBR/NR, abrasion and ozone resistant
- Working pressure: 10 bar (150 psi)
- Temperature: -30 °C to +80 °C
- Safety factor: 3:1 up to 127 mm; 2.5:1 above 152 mm

ADVANTAGES:

- High abrasion resistance
- Conductive construction
- Steel-helix reinforcement supports suction service
- Designed for heavy-duty mining
- Available for muff-coupling applications

MINING USES & APPLICATIONS:

- Abrasive slurry transfer
- Slurry suction and discharge
- Tailings and mineral-processing transfer
- Bulk abrasive material handling
- Heavy-duty mining pipelines



PRODUCT PORTFOLIO

ALFAGOMMA 720AA – BULK MATERIAL S&D

PRODUCT DESCRIPTION:

Heavy-duty bulk-material suction and delivery hose for dry material transfer. Its conductive, abrasion-resistant construction makes it relevant to mining plants handling dry cementitious or granular materials.

KEY SPECIFICATIONS:

- Tube: black conductive NR, abrasion resistant
- Reinforcement: high-tensile textile cords with embedded steel helix wire
- Cover: black conductive SBR/NR, abrasion and ozone resistant
- Working pressure: 10 bar (150 psi) for listed range
- Burst pressure: 30 bar (450 psi) for listed 2–4 in examples
- Temperature: -30 °C to +80 °C
- Sizes include 2–8 in in catalogue range

ADVANTAGES:

- Conductive construction helps control static
- Abrasion-resistant tube and cover
- Suitable for suction and delivery
- Steel helix supports vacuum service
- Heavy-duty construction

MINING USES & APPLICATIONS:

- Dry cement transfer
- Mineral-processing dry material transfer
- Granular material handling
- Bulk powder suction/discharge
- Plant material-loading systems



PRODUCT PORTFOLIO

ALFAGOMMA 752AA – PLASTER / SAND-CEMENT

PRODUCT DESCRIPTION:

A 10 bar plaster and sand-cement transfer hose with conductive, abrasion-resistant construction.

It is particularly relevant to mining construction, shotcrete and cementitious material handling where the application permits.

KEY SPECIFICATIONS:

- Tube: black conductive NR, abrasion resistant
- Reinforcement: high-tensile textile cords
- Cover: black SBR/NR, abrasion and ozone resistant
- Working pressure: 10 bar (150 psi)
- Burst pressure: 30 bar (450 psi)
- Temperature: -30 °C to +80 °C
- Sizes listed: 60, 65, 90 and 102 mm

ADVANTAGES:

- Abrasion-resistant tube
- Conductive construction
- Suitable for cementitious mixtures
- Robust textile reinforcement
- Can also be used as a heavy-duty sandblast hose where specified

MINING USES & APPLICATIONS:

- Sand/cement mix pumping
- Plaster and mortar transfer
- Mining construction activities
- Cementitious material handling
- Selected shotcrete-related duties



PRODUCT PORTFOLIO

ALFAGOMMA 757AA – HIGH-PRESSURE PLASTER

PRODUCT DESCRIPTION:

High-pressure plaster and mortar hose for demanding cementitious-material pumping. Its 40 bar working pressure makes it suitable where the application requires a higher-pressure plaster/mortar line.

KEY SPECIFICATIONS:

- Tube: black conductive NR, abrasion resistant
- Reinforcement: high-tensile textile cords
- Cover: black SBR/NR, abrasion and ozone resistant
- Working pressure: 40 bar (600 psi)
- Burst pressure: 100 bar (1 500 psi)
- Temperature: -30 °C to +80 °C
- Sizes listed: 25–51 mm

ADVANTAGES:

- High working-pressure capability
- Conductive abrasion-resistant tube
- Strong textile reinforcement
- Suitable for high-pressure pumping
- Compact range of common sizes

MINING USES & APPLICATIONS:

- High-pressure mortar pumping
- Plaster pumping
- Cementitious material transfer
- Mining construction and underground development
- Shotcrete/mortar systems where specification is compatible



PRODUCT PORTFOLIO

HAND-BUILT RUBBER WATER SUCTION & DELIVERY HOSE

PRODUCT DESCRIPTION

Heavy-duty hand-built rubber hose assemblies manufactured for water suction and delivery, with flanged ends or cuffed ends to suit the installation. We supply tailor-made rubber water suction/delivery hoses for mining and industrial applications.

KEY SPECIFICATIONS

- Hand-built rubber hose construction
- Suction and/or delivery configuration
- Flanged ends can be manufactured to suit requirements
- Abrasive liner options are available on suitable hose constructions
- Final pressure, temperature and liner specification are application dependent

ADVANTAGES

- Tailor-made to application
- Suitable for large-diameter duties
- Flanged connections simplify installation
- Heavy-duty rubber construction
- Abrasive liner options available for appropriate services

MINING USES & APPLICATIONS

- Mine dewatering
- Pump discharge lines
- Water transfer
- Process-water pipelines
- Large-diameter mining connections



PRODUCT PORTFOLIO

TEFLON CONVOLUTED METALLIC HOSE

PRODUCT DESCRIPTION:

Flexible PTFE hose with a convoluted liner and stainless-steel braid for chemical, high/low-temperature and process-fluid duties. In mining, it can be used around process plants where chemical compatibility and flexibility are more important than abrasion service.

KEY SPECIFICATIONS:

- Convoluted PTFE liner
- Stainless-steel braid reinforcement
- Typical temperature capability can reach about -70 °C to +260 °C depending on construction
- Working pressure depends on diameter and construction; example ranges 23–172 bar
- Various end connections available

ADVANTAGES:

- Excellent chemical resistance
- Wide temperature capability
- Low friction
- High flexibility
- Suitable for aggressive process fluids

MINING USES & APPLICATIONS:

- Chemical dosing lines
- Acid and reagent transfer
- Process-plant connections
- High-temperature fluid service
- Flexible connections around pumps and equipment



PRODUCT PORTFOLIO

HYDRAULIC HOSE – 1 WIRE

PRODUCT DESCRIPTION:

Single-wire-braid hydraulic hose for low- to medium-pressure hydraulic circuits. A practical option for general mining equipment, mobile machinery and auxiliary hydraulic systems where the pressure and impulse requirements match the selected construction.

KEY SPECIFICATIONS:

- Single high-tensile steel-wire braid construction
- Available in multiple bore sizes
- Pressure rating varies by bore and hose construction
- Assembly should use compatible hose, ferrule and fitting system

ADVANTAGES:

- Flexible and durable
- Suitable for general hydraulic circuits
- Wide size availability
- Practical for routine equipment maintenance
- Can be assembled with matched fittings

MINING USES & APPLICATIONS

- Mining machinery hydraulics
- Auxiliary circuits
- Mobile equipment
- Pumps and actuators
- General plant hydraulic systems



PRODUCT PORTFOLIO

HYDRAULIC HOSE – 2 WIRE

PRODUCT DESCRIPTION:

Two-wire-braid hydraulic hose for medium- to high-pressure hydraulic systems. It offers greater reinforcement than a single-wire hose and is widely used on construction, mining and industrial equipment.

KEY SPECIFICATIONS:

- Two high-tensile steel-wire braid reinforcement
- Pressure rating varies with bore size and hose construction
- Designed for medium- to high-pressure hydraulic systems
- Use matched fittings and correct crimp specifications

ADVANTAGES:

- Higher pressure capability than typical 1-wire hose
- Good impulse resistance
- Durable reinforcement
- Suitable for demanding mobile equipment
- Available across common hydraulic sizes

MINING USES & APPLICATIONS:

- Excavators
- Loaders and dozers
- Drill rigs
- Mining mobile equipment
- High-pressure auxiliary hydraulic circuits



PRODUCT PORTFOLIO

HYDRAULIC HOSE – MULTISPIRAL

PRODUCT DESCRIPTION:

High-pressure multi-spiral hydraulic hose for demanding mining machinery where high impulse life, pressure capability and abrasion resistance are required.

KEY SPECIFICATIONS:

- Four alternating layers of spiralled high-tensile steel wire
- Meets/exceeds AS 3791 100R12, EN 856 R12, ISO 3862 R12 and SAE 100R12
- H4000S example: 280 bar / 4 100 psi constant pressure
- H4000S uses four or six spiral layers depending on size
- Flame-resistant.

ADVANTAGES:

- Very high pressure capability
- High impulse life
- Excellent abrasion resistance on specified cover constructions
- Suitable for demanding mobile mining equipment
- Small bend radius available on selected products

MINING USES & APPLICATIONS:

- Excavators and loaders
- Rock breakers
- Drill rigs
- Dozers and compactors
- High-pressure mining hydraulic systems



PRODUCT PORTFOLIO

MINELINE – HIGH-PRESSURE DEWATERING HOSE



PRODUCT DESCRIPTION:

A high-pressure, totally lay-flat mining hose designed for mine dewatering where pump and surface-equipment movement makes rigid piping difficult. Its lightweight construction supports fast deployment and retrieval over demanding terrain.

KEY SPECIFICATIONS:

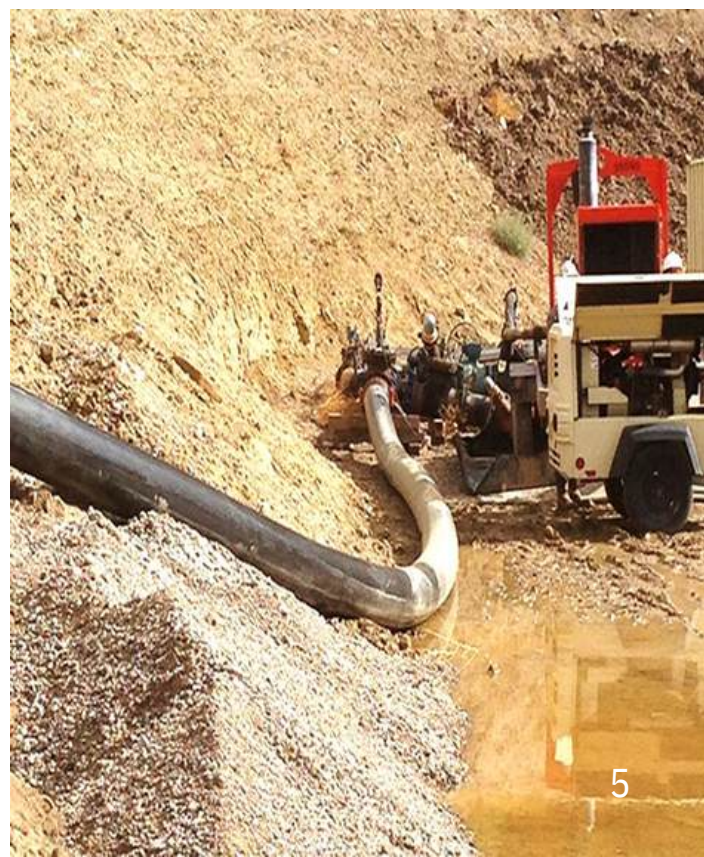
- High-tenacity fibres protected by abrasion-resistant polyurethane
- UV stabilised
- Flexible from -40 °C to +70 °C
- Standard lengths: 100 m and 200 m; other lengths on request

ADVANTAGES:

- Extra abrasion resistance
- Lightweight compared with rigid pipe systems
- Lay-flat design for easy handling
- Resistant to oil and chemicals
- Low coil volume
- Long continuous lengths reduce joints
- Suitable for rugged terrain and extreme conditions

MINING USES & APPLICATIONS:

- Mine dewatering
- Long-distance water pumping
- Temporary and semi-permanent dewatering lines
- Open-pit and underground mine water management
- Difficult-terrain water transfer



PRODUCT PORTFOLIO

COMPOSITE HOSES

PRODUCT DESCRIPTION:

EN 13765 certified composite hose solutions for fuel, chemical and vapour transfer. Fuel Flex supplies composite constructions for demanding petrochemical and industrial service, including mobile and mining-related transfer systems.

KEY SPECIFICATIONS:

- EN 13765 composite hose family: AAPH, GAPH and GGPP constructions
- Working pressure: 10 or 14 bar, depending on construction
- Nominal sizes: 1 to 6 in
- Maximum coil length: 15 m
- Designed for fuel loading/offloading, chemical transfer and vapour recovery
- SANS 1518 compliance is stated for certified local manufacture
- Confirm temperature, fluid compatibility and end fittings for the selected assembly

ADVANTAGES:

- Lightweight and flexible compared with rigid transfer piping
- Suitable for mobile and fixed installations
- Multiple reinforcement constructions available
- EN-certified product options support controlled fuel and chemical transfer
- Compatible couplings and end connections available

MINING USES & APPLICATIONS:

- Diesel and fuel transfer around mine sites
- Fuel loading and offloading at storage or dispensing points
- Chemical and process-fluid transfer where hose construction is compatible
- Vapour recovery connections
- Mobile tank, bowser and terminal systems



PRODUCT PORTFOLIO

ALFAGOMMA T509 - UHMWPE CHEMICAL HOSE

PRODUCT DESCRIPTION:

Heavy-duty chemical suction and discharge hose with a transparent UHMWPE tube, flexible steel-helix reinforcement and blue EPDM cover for a wide range of chemical and acid transfer duties.

KEY SPECIFICATIONS:

- Tube: transparent UHMWPE (Ultra High Molecular Weight Polyethylene)
- Reinforcement: synthetic textile cords with 4 flexible steel helix wires
- Cover: blue EPDM - abrasion and ozone resistant
- Working pressure: 16 bar (240 psi) constant pressure
- Service temperature: -30 °C to +93 °C
- Nominal sizes: 3/4 to 6 in (19 to 152 mm)
- Vacuum capability: approx. 24-27 in Hg, depending on size
- Standard length: 100 ft (approx. 30.5 m)
- Suitable for DEF; FDA requirements stated in current catalogue
- Check chemical compatibility against the current resistance guide

ADVANTAGES:

- Broad chemical resistance
- Flexible with reinforced suction capability
- Abrasion- and ozone-resistant EPDM cover
- High working pressure for chemical transfer duty
- Suitable for demanding process and plant connections

MINING USES & APPLICATIONS:

- Acid and chemical transfer in mining process plants
- Reagent and process-fluid handling where compatible
- Leach and chemical dosing systems
- Pump and tank suction/discharge connections
- Chemical plant maintenance connections



CONTACT US

WE'RE HERE TO HELP

For expert advice for all your fittings,
don't hesitate to contact Hose
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