

Quick Reference Guide

HYD/IND

THERMOPLASTIC HOSES

HYDRAULIC AND INDUSTRIAL APPLICATIONS



TRANSFER OIL
Pure Fluid Attitude

The Quality System

Our goal is to utilise our research and development capabilities in order to generate distinctive value through new, improved products.

RESEARCH AND DEVELOPMENT

Our customers come to Transfer Oil for our technical experience, ability and expertise whether the challenge is developing a new product, enhancing an existing product, or finding a bespoke product solution.

Highly qualified and experienced staff use the latest techniques, software, test equipment and analysis tools to generate product solutions tailored to meet individual customer and market requirements.

We have various test capabilities available from burst testing up to 10000 bar to impulse and cycle testing to 3800 bar to mass spectrometry permeation testing to fractions of a gram per year to name but a few, to verify and validate the hose products demanded in the many markets we serve.

Working closely with the commercial department and understanding customer needs, new products are generated from individual customer demands for modification of present technology for specific application area, to market demands for creation of totally new and challenging technology and applications such as UHP.

Our extensive range of products is the result of many research achievements not just in the field of UHP but also continuing in other applications areas such as Hydraulic, Industrial, Alternative fuels, Air Conditioning and refrigeration, to name just a few.

With decades of new product activity Transfer Oil learns from past experience and follows a path of continuous investment, improvement and enhancement of new products and specialist services from the Research and Development department.

QUALITY

Quality is at the heart of Transfer Oil philosophy to provide the best product and services to the market. From rigorous checks and tests of raw materials and parts at arrival, to verification, test and approval of every stage in the product manufacturing process, to final approval and release of manufactured products.

At each and every stage the verification and approval of the Quality department is mandatory on all production. From dimensional laser and infra-red analysis at goods in to pressure testing and permeation testing of final product, every step of the process is under the close scrutiny and control of the Quality department.

Quality certification, as requested, is generated and provided to our customers in a timely and reliable manner. Enquiries and concerns from our customers are responded to quickly and effectively.

Transfer Oil has a long history of being at the forefront of Quality Assurance being one of the first companies in our Industry to achieve ISO 9001 certification in 1993 and since that time continuously improving and developing Quality systems within the company with computerized and paperless systems and analytical techniques.

Transfer Oil obtains world renowned third party quality certifications and approvals for its products from well-known organizations such as DNV, ABS, MSHA and CSA.

Going beyond Quality, Transfer OIL has also heavily invested in, and achieved, ISO 14001 certification for its Environmental Management System and also OHSAS 18001 certification for its Occupational Health and Safety Management System. A company that takes seriously the world we live in and the safety of its employees.

Company and Product Certification

COMPANY CERTIFICATION

ISO 9001:2008

One of the first companies in our industry to achieve certification of its Quality Management System in accordance with the internationally recognised standard ISO 9001.

ISO 14001:2004

Environmental Management System in accordance with environmental standard ISO 14001.

A very significant and voluntary step that Transfer Oil decided to undertake.

This commitment, respect and protection of the environment is a guarantee of added value to services and products that Transfer Oil SpA proudly offers and exports all over the world.

BS OHSAS 18001:2007

Occupational Health and Safety Management System in accordance with the British Standard OHSAS 18001.

International practices to manage organically and systematically all issues concerning safety and health in the workplace to ensure compliance with current legislation.

PRODUCT CERTIFICATION



DNV type approval flexible hoses for CO₂ systems

Obtained in 2014. Specific type approval for Fire Extinguishing hose system.



MSHA

Mine Safety and Health Administration. Obtained in 2014. Synonymous of high quality and safety standard, due to the demanding level of flame resistant characteristics required.



CSA

Type approval for CNG gas applications. Obtained in 2016. The products are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and US Standards).



ABS

American Bureau of Shipping type approval for use in Marine and Offshore Applications. Obtained in 2016.

DNV-GL DNV GL

Type approval for use in Marine and Off Shore Applications. Obtained in 2016.

Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.

Transfer Oil Hydraulic

HOSE	SPECIFICATION		APPLICATIONS	
	ID	WP		
PILOT FL				
092 PILOT FL		DN4 - DN12 1/8" - 1/2" -2/-8	100-175 bar 1400-2500 psi	Servo control/Pilot lines/General low pressure hydraulics
SAE 100R7				
066 R7 ANTIABRASION		DN4 - DN25 1/8"-1" -2/-16	70-210 bar 1000-3000 psi	Construction and agricultural equip./Agricultural brake sys. Forklift Trucks/Articulating and telescopic booms/Aerial platforms/Scissor lifts/Cranes/General hyd./Industrial gases
062 R7 LFC ANTIABRASION		DN5 - DN12 3/16"-1/2" -3/-8	140-210 bar 2000-3000 psi	Construction and agricultural equip./Agricultural brake sys. Forklift Trucks/Articulating and telescopic booms/Aerial platforms/Scissor lifts/Cranes/General hyd./Industrial gases
095 R7 NON CONDUCTIVE		DN5 - DN25 3/16"-1" -3/-16	70-210 bar 1000-3000 psi	High voltage equip. /Safety and rescue equip./Aerial platforms Cranes/Equipment requiring electrical high insulation
052 R7 MARINER		DN4-DN25 1/8"-1" -2/-16	70-210 bar 1000-3000 psi	Marine and off-shore equipment/Boats/Cranes Marine transport systems
053 R7 YACHTING		DN5 - DN12 3/16"-1/2" -3/-8	140-210 bar 2000-3000 psi	Marine and off-shore equipment/General hydraulic, steering and movement systems on pleasure boats and yachts Hydraulic gangways
097 R7 EXTRA TOUGH		DN5 - DN12 3/16"-1/2" -3/-8	140-210 bar 2000-3000 psi	Heavy duty construction and agricultural equipment Cranes/General hydraulics/Industrial gases
ANSI A92.2				
166 A92.2 ANTIABRASION		DN4 - DN25 1/8"-1" -2/-16	90-210 bar 1300-3000 psi	Mobile equipment/Articulating and telescopic booms/Aerial platforms/Scissor lifts/Cranes/General hydraulics
195 A92.2 NON CONDUCTIVE		DN5 - DN25 3/16"-1" -3/-16	90-210 bar 1300-3000 psi	High voltage equipment/Aerial platforms/Cranes/Equipment requiring electrical high insulation

HOSE	SPECIFICATION		APPLICATIONS	
	ID	WP		
1SB STEEL BRAID				
087 1SB ANTIABRASION		DN5 - DN25 3/16"-1" -3/-16	95-360 bar 1300-5200 psi	General hydraulic applications requiring additional mechanical protection/Construction and agricultural equipment/Agricultural brake systems/Hoisting and handling application industrial machines
056 1SB MARINER		DN5 - DN25 3/16"-1" -3/-16	95-360 bar 1300-5200 psi	Marine and off-shore equipment/Boats/Cranes/Marine transport systems
058 1SB YACHTING		DN5 - DN12 3/16"-1/2" -3/-8	190-360 bar 2700-5200 psi	Marine and off-shore equipment/General hydraulic, steering and movement systems on pleasure boats and yachts/Hydraulic gangways
SAE 100R8				
075 R8 ANTIABRASION		DN4 - DN25 1/8"-1" -2/-16	140-420 bar 2000-6000 psi	Construction and agricultural equipment/Forklift trucks/Articulating and telescopic booms/Aerial platforms/Safety and rescue equipment/Scissor lifts/Cranes/General hyd./Ind. gases
126 R8 NON CONDUCTIVE		DN5 - DN25 3/16"-1" -3/-16	140-350 bar 2000-5000 psi	High voltage equipment/Safety and rescue equipment/Aerial platforms/Cranes/Equipment requiring electrical high insulation
054 R8 MARINER		DN4 - DN25 1/8"-1" -2/-16	140-420 bar 2000-6000 psi	Marine and off-shore equipment/Boats/Cranes/Marine transport systems
055 R8 YACHTING		DN5 - DN12 3/16"-1/2" -3/-8	245-350 bar 3500-5000 psi	Marine and off-shore equipment/Boats/Yachting equipment
076 R8 EXTRA TOUGH		DN5 - DN12 3/16"-1/2" -3/-8	245-350 bar 3500-5000 psi	Heavy duty construction and agricultural equip./Rescue and safety equipment/High pressure systems and pumps/Bolt tensioning tools/Jacking and rerailing equipment/Ind. gases
HR8				
108 HR8 HYBRID REINFORCEMENT		DN6 - DN12 1/4"-1/2" -4/-8	250-350 bar 3600-5000 psi	General hydraulic apps. requiring high mechanical protection properties of hose and braid, combined with high pressure/Construction equipment Hoisting and handling equipment/Machine tools

Transfer Oil Hydraulic

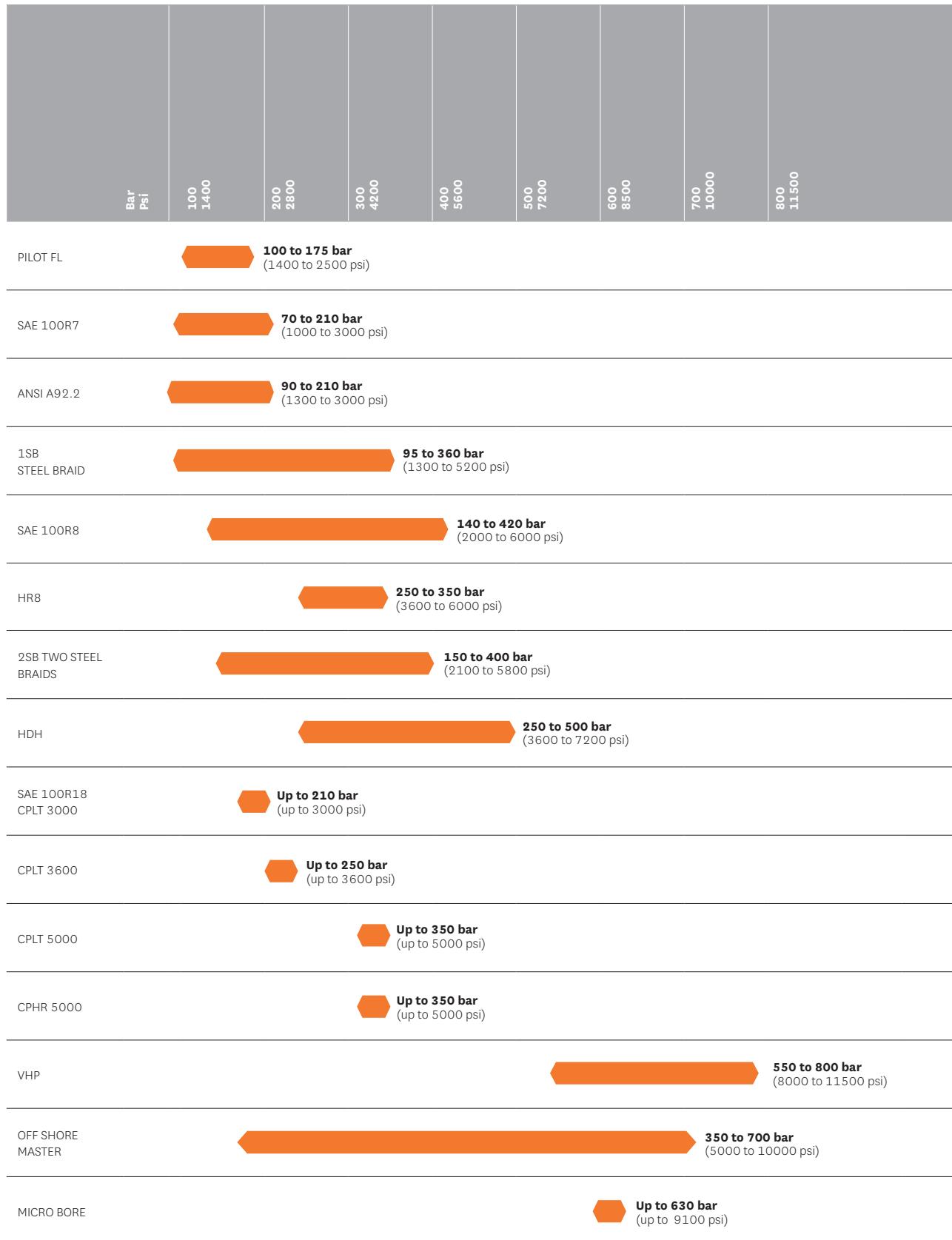
HOSE	SPECIFICATION		APPLICATIONS	
	ID	WP		
2SB TWO STEEL BRAIDS				
085 2SB ANTIABRASION		DN6 - DN20 1/4"-3/4" -4/-12	150-400 bar 2100-5800 psi	General hydraulic apps. requiring high mechanical protection properties of hose and braid combined with high pressure: construction equipment Hoisting and handling equipments/Machine tools
HDH				
150 HDH STEEL ARMOURED		DN6 - DN20 1/4"-3/4" -4/-12	250-500 bar 3600-7200 psi	General hydraulic apps. requiring high mechanical protection properties of hose and braid combined with high pressure: construction equipment Hoisting and handling equipments/Machine tools
SAE 100R18 CPLT 3000				
125 R18 CPLT 3000 LOW TEMPERATURE		DN5 - DN16 3/16"-5/8" -3/-10	up to 210 bar 3000 psi	Forklift handling/All industrial and agricultural applications exposed to low temperatures or cyclic and quick temperature changes
155 R18 CPLT 3600 NC LOW TEMP. NON COND.		DN5 - DN16 3/16"-5/8" -3/-10	up to 210 bar 3000 psi	High voltage equipment/Aerial platforms/All industrial and hydraulic applications exposed to low temperatures or cyclic and quick temperature changes
CPLT 3600				
153 CPLT 3600 LOW TEMPERATURE		DN5 - DN10 3/16"-3/8" -3/-6	up to 250 bar 3600 psi	Forklift handling/All industrial and agricultural applications exposed to low temperatures or cyclic and quick temperature changes
156 CPLT 3600 NC LOW TEMP. NON COND.		DN5 - DN10 3/16"-3/8" -3/-6	up to 250 bar 3600 psi	High voltage equipment/Aerial platforms/All industrial and hydraulic applications exposed to low temperatures or cyclic and quick temperature changes
CPLT 5000				
154 CPLT 5000 LOW TEMPERATURE		DN5 - DN12 3/16"-1/2" -3/-8	up to 350 bar 5000 psi	General hydraulic applications requiring high mechanical protection properties of hose and braid in cold environments combined with high pressure: construction equipment/Hoisting and handling equipments / Machine tools
CPHR 5000				
109 CPHR 5000 HYBRID REINFORC.		DN6 - DN12 1/4"-1/2" -4/-8	up to 350 bar 5000 psi	General hydraulic applications requiring high mechanical protection properties of hose and braid, combined with high pressure: construction equipment, hoisting and handling equipment, machine tools

HOSE	SPECIFICATION		APPLICATIONS	
	ID	WP		
VHP				
041 VHP 10000		DN6 - DN10 1/4"-3/8" -4/-6	up to 700 bar 10000 psi	Rescue and safety equipment/High pressure systems and pumps/Bolt tensioning tools/Jacking and rerailing equipment
046 VHP NON CONDUCTIVE		DN4 - DN10 1/8"-3/8" -2/-6	550-700 bar 8000-10000 psi	Rescue and safety equipment/High pressure systems and pumps/Jacking and rerailing equipment/Equipment requiring electrical high insulation
040 VHP 10000 MARINER		DN6 - DN12 1/4"-1/2" -4/-8	up to 700 bar 10000 psi	Off-shore and sub-sea high pressure systems/Pumps and valves/Bolt tensioning tools/Jacking and rerailing equipment
080 VHP EXTRA		DN6 1/4" -4	up to 800 bar 11500 psi	Rescue and safety equipment/High pressure systems and pumps/Bolt tensioning tools/Jacking and rerailing equipment
OFF SHORE MASTER				
168 OFF SHORE MASTER 3K		DN20 - DN25 3/4" - 1" -12/-16	up to 210 bar 3000 psi	Marine and off-shore equipment/ROVs (remotely operated vehicles)/BOP valves/Methanol injection/Seismic air gun systems
060 OFF SHORE MASTER 5K		DN5 - DN25 3/16"-1" -3/-16	up to 350 bar 5000 psi	Marine and off-shore equipment/ROVs (remotely operated vehicles)/BOP valves/Methanol injection/Seismic air gun systems
169 OFF SHORE MASTER 10K		DN6 1/4" -4	up to 700 bar 10000 psi	Marine and off-shore equipment/ROVs (remotely operated vehicles)/BOP valves/Methanol injection/Seismic air gun systems
MICRO BORE				
089 MICRO BORE		DN2 - DN4 5/64"-5/32" -2	up to 630 bar 9100 psi	Pressure test equipment and test points/General mini hydraulic equip. using capillary hoses in confined areas/Automotive roof opening systems Bicycle braking systems

Hose family Selection by applications



Hose family Selection by pressure rating



Transfer Oil Industrial

HOSE	SPECIFICATION		APPLICATIONS
	ID	WP	
GREASING			
130 GREASING		DN4 5/32"	up to 400 bar 5800 psi Manual and air-operated greasing guns/ Central greasing and lubrication systems
PUSH ON			
106 PUSH ON		DN6 - DN20 1/4"-3/4" -4 / -12	up to 20 bar 290 psi Low pressure air and water line/Free of paint affecting substances/LABS free
107 PUSH ON NON CONDUCTIVE		DN6 - DN20 1/4"-3/4" -4 / -12	up to 20 bar 290 psi Low pressure air and water line/Free of paint affecting substances/LABS free
BEVERAGE DISPENSING			
140 BEVERAGE DISPENSING		DN6 1/4" -4	210-350 bar 3000-5000 psi CO ₂ for beverage dispensing / Nitrogen and mixed gases
AIR CYLINDER FILLING 6000			
120 AIR CYLINDER FILLING 6000		DN5 - DN6 3/16"-1/4" -3 / -4	up to 420 bar 6000 psi Air compressors / Mobile and stationary units used for filling breathing air cylinders / Cascade systems
CO₂			
050 1SB CO ₂ FIRE EXT. SYSTEMS		DN5 - DN16 3/16"-5/8" -3 / -10	140-300 bar 2000-4300 psi Off-shore and industrial CO ₂ fire extinguishing installations
FUEL			
15R CNG 5000 COMPRESSED NATURAL GAS HOSE		DN6 - DN25 1/4"-1" -4 / -12	up to 350 bar 5000 psi Refueling hose for mobile and stationary units used to refill natural gas vehicles (NGV) tanks / CNG Transfer lines
184 LPG		DN5 - DN6	up to 30 bar 435 psi Low pressure hose suitable for LPG applications

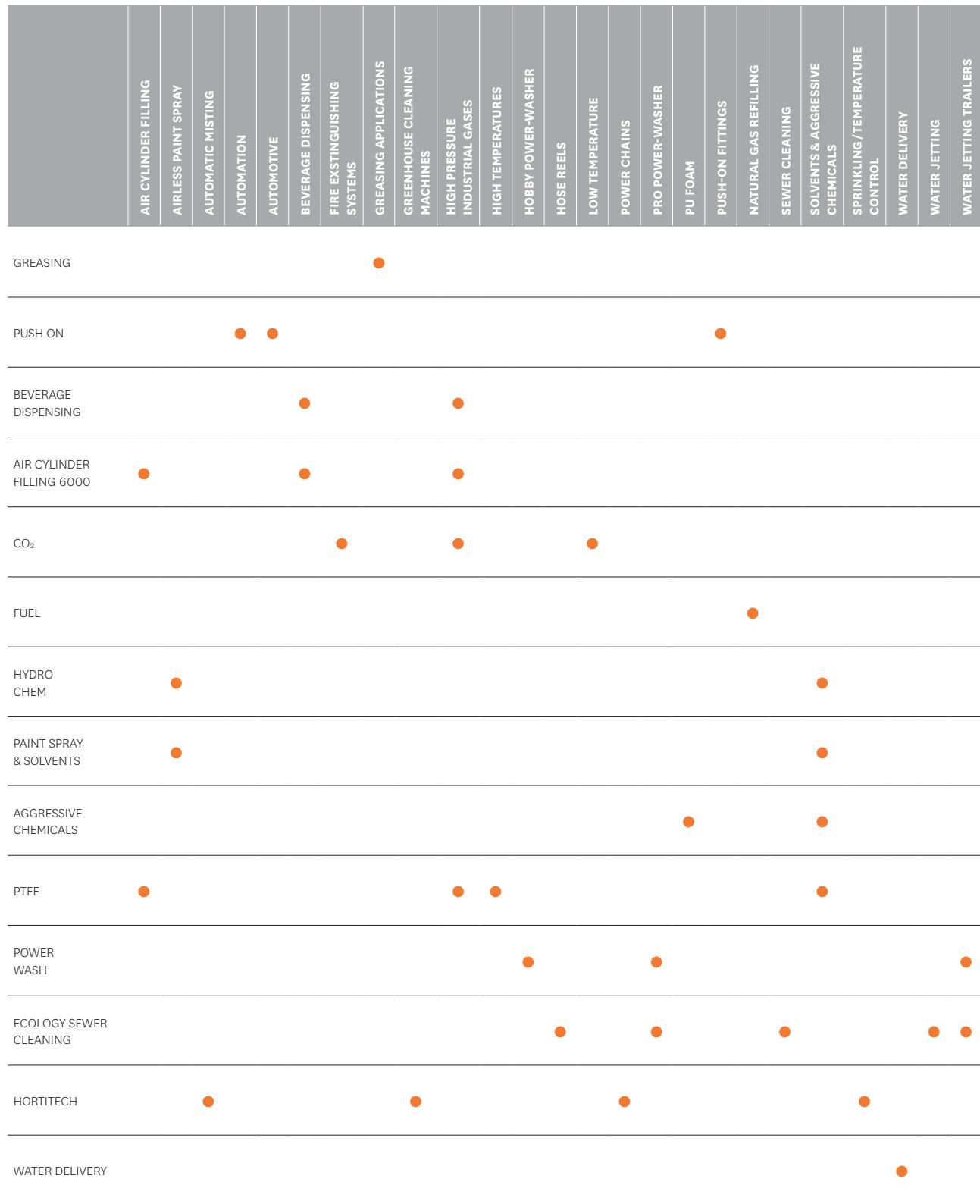
HOSE	SPECIFICATION		APPLICATIONS	
	ID	WP		
185 HYDROGEN REFUELLING		DN6	up to 700 bar 10000 psi	Very High Pressure hose suitable for hydrogen applications
HYDRO CHEMICALS				
084 1 SB HYDRO-CHEM		DN5 - DN25 3/16"-1" -3 / -16	95-360 bar 1300-5200 psi	Airless paint spray systems requiring additional mechanical strength of hose and/or electrical conductivity/Applications requiring high chemical resistance to solvents and aggressive fluids/Suitable also for hydraulic and fluid power applications
PAINT SPRAY & SOLVENTS				
098 R7 PAINT SPRAY & SOLVENTS		DN5 - DN12 3/16"-1/2" -3 / -8	140-210 bar 2000-3000 psi	Airless paint spray systems/Applications requiring high chemical resistance to solvents and aggressive fluids
157 CPPA 3600 PAINT SPRAY ANTISTATIC		DN5 - DN10 3/16"-3/8" -3 / -6	up to 250 bar 3600 psi	Airless paint spray systems/Applications requiring high chemical resistance to solvents and aggressive fluids
127 R8 PAINT SPRAY & SOLVENTS		DN5 - DN12 3/16"-1/2" -3 / -8	245-350 bar 3500-5000 psi	High pressure airless paint spray systems/Applications requiring high chemical resistance to solvents and aggressive fluids
158 R8 PAINT SPRAY ANTISTATIC		DN5 - DN10 3/16"-3/8" -3 / -6	280-350 bar 4000-5000 psi	High pressure airless paint spray systems/Applications requiring high chemical resistance to solvents and aggressive fluids
083 1SB PAINT SPRAY & SOLVENTS		DN5 - DN20 3/16"-3/4" -3 / -12	115-360 bar 1600-5200 psi	Airless paint spray systems requiring additional mechanical strength of hose and/or electrical conductivity/Applications requiring high chemical resistance to solvents and aggressive fluids
083BP 1SB PAINT SPRAY & SOLVENTS		DN5 - DN20 3/16"-3/4" -3 / -12	115-360 bar 1600-5200 psi	Airless paint spray systems requiring additional mechanical strength of hose and/or electrical conductivity/Applications requiring high chemical resistance to solvents and aggressive fluids
081 2SB PAINT SPRAY & SOLVENTS		DN6 - DN20 1/4"-3/4" -4 / -12	215-425 bar 3100-6100 psi	High pressure airless paint spray systems requiring very high mechanical strength of hose and/or electrical conductivity/Application requiring high chemical resistance to solvents and aggressive fluids

Transfer Oil Industrial

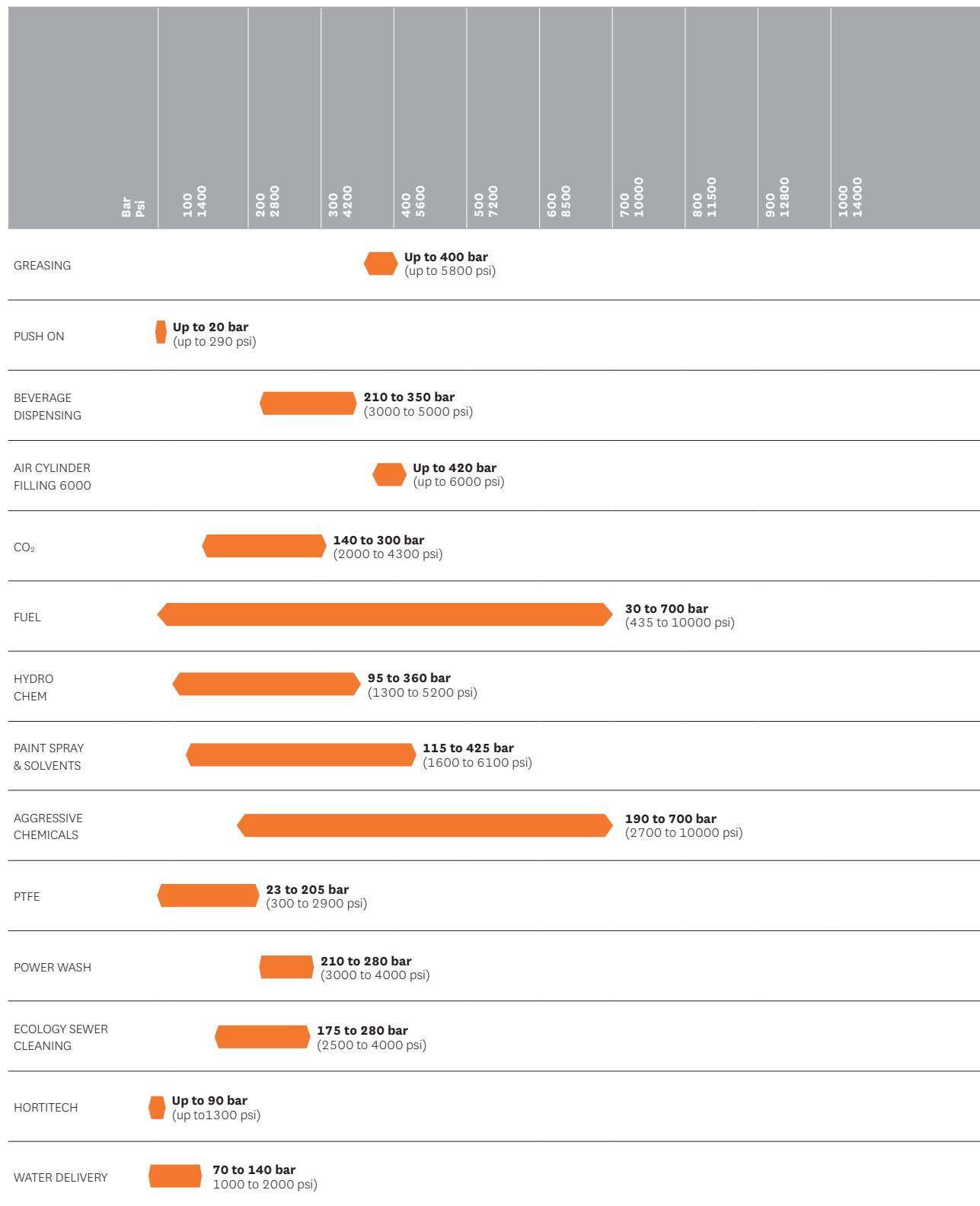
HOSE	SPECIFICATION		APPLICATIONS	
	ID	WP		
AGGRESSIVE CHEMICALS				
181 2SB AGGRESSIVE CHEMICALS		DN6 - DN25 1/4"-1" -4 / -16	190-425 bar 2700-6100 psi	High pressure aggressive chemicals systems requiring very high mechanical strength of hose and/or electrical conductivity/Applications requiring high chemical resistance to solvents and aggressive fluids such as two part polyurethane injection foams
049 HP AGGRESSIVE CHEMICALS		DN10 - DN12 3/8"-1/2" -6 / -8	450-550 bar 6500-8000 psi	High pressure aggressive chemicals systems requiring very high mechanical strength of hose and/or electrical conductivity/Applications requiring high chemical resistance to solvents and aggressive fluids such as two part polyurethane injection foams
048 VHP AGGRESSIVE CHEMICALS		DN6 - DN25 1/4"-1" -4 / -16	310-700 bar 4500-10000 psi	Very high pressure aggressive chemicals systems requiring very high mechanical strength of hose and/or electrical conductivity/Applications requiring high chemical resistance to solvents and aggressive fluids such as two part polyurethane injection foams
PTFE				
030 PTFE 1SSB STAINLESS STEEL BRAID		DN5 - DN25 3/16"-1" -3 / -16	75-205 bar 1000-2900 psi	Aggressive chemicals transfer systems/Compressed air and gases/High or low temperature fluid or gas transfer
031 PTFE 1SSB STAINLESS STEEL BRAID CONV.		DN10 - DN51 3/8"-2" -6 / -32	23-138 bar 300-2000 psi	Aggressive chemicals transfer systems/Compressed air and gases/High or low temperature fluid or gas transfer
POWER WASH				
07B POWER WASH STEEL		DN6 - DN10 1/4"-3/8" -4 / -6	210-280 bar 3000-4000 psi	Water cleaning applications such as professional power washers/Car-wash stations, including self-service car-wash stations
ECOLOGY SEWER CLEANING				
100 ECOLOGY 2500 NAM		DN12 - DN32 1/2"-1+1/4" -8 / -20	up to 175 bar 2500 psi	Standard sewer cleaning vehicles and applications/Cleaning equipment used in high humidity environments
101 ECOLOGY 200 EL		DN12 - DN32 1/2"-1+1/4" -8 / -20	up to 200 bar 2900 psi	Standard sewer cleaning vehicles and applications/Cleaning equipment used in high humidity environments
110 ECOLOGY 210 HD		DN20 - DN32 3/4"-1+1/4" -12 / -20	up to 210 bar 3000 psi	Standard sewer cleaning vehicles and applications/Cleaning equipment used in high humidity environments

HOSE	SPECIFICATION		APPLICATIONS	
	ID	WP		
113 ECOLOGY 250 HD		DN12 - DN32 1/2"-1+1/4" -8 / -20	up to 250 bar 3600 psi	Modern sewer cleaning vehicles and applications requiring long lengths high working pressure and low pressure drop/Equipment used in high humidity environments
117 ECOLOGY 2500 LT		DN5 - DN6 3/16"-1/4" -3 / -4	up to 175 bar 2500 psi	Compact sewer cleaning vehicles and equipment for cleaning smaller residential and commercial lines
118 ECOLOGY 3000 LT		DN10 - DN12 3/8"-1/2" -6 / -8	up to 210 bar 3000 psi	Compact sewer cleaning vehicles and equipment for cleaning smaller residential commercial and industrial lateral sewer lines used as connection to the main sewer line
119 ECOLOGY 4000 LT		DN5 - DN12 3/16"-1/2" -3 / -8	up to 280 bar 4000 psi	Compact sewer cleaning vehicles and equipment for cleaning smaller residential commercial and industrial lateral sewer lines used as connection to the main sewer line
HORTITECH				
133 HORTITECH LFC		DN6 - DN20 1/4"-3/4" -4 / -12	up to 90 bar 1300 psi	Matt low friction cover LFC resistant to hydrolysis moisture and microbiological attack/Bonded construction/Abrasion resistant/Lightweight/Limited change in length/Pin-pricked cover
WATER DELIVERY				
129 WATER DELIVERY HOSE		DN12 - DN25 1/2"-1" -8 / -16	70-140 bar 1000-2000 psi	Water supply to remote and/or mountainous areas with a difference in altitude

Hose family Selection by applications



Hose family Selection by pressure rating





**FLUID POWER
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