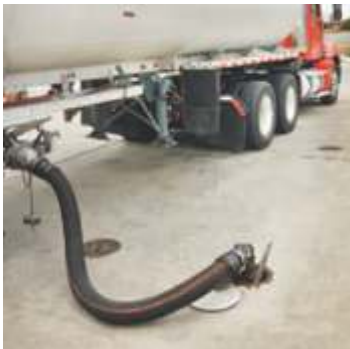




aerospace
 climate control
 electromechanical
 filtration
fluid & gas handling
 hydraulics
 pneumatics
 process control
 sealing & shielding



Industrial Hose - 2017

Fluid Connectors, India.



HoseFinder^{1.0}
 Hose Selection Mobile App
 India Version



ENGINEERING YOUR SUCCESS.

Parker Hannifin – the global leader and your partner



With annual sales exceeding \$13 billion, Parker Hannifin is the world's leading diversified manufacturer of motion and control technologies and systems, providing precision-engineered solutions for a wide variety of mobile, industrial and aerospace markets. Our products are vital to virtually everything that moves or requires control, including the manufacture and processing of raw materials, durable goods, infrastructure development and all forms of transport.

Within Parker's seven operating groups, the company's engineering expertise spans the core motion technologies – electromechanical, hydraulic and pneumatic – with a full complement of fluid handling, filtration, sealing and shielding, climate control, process control and aerospace technologies.

The leader in “dry technology” for the fluid power industry, Parker's Fluid Connectors Group is your single source for high-quality tube fittings, hose and hose fittings, thermoplastic tubing, brass fittings and valves, quick-disconnect couplings and assembly tools. The Fluid Connectors Group serves customers in a broad range of markets, including Aerial Lift, Agriculture, Bulk Chemical Handling, Construction Machinery,

Food & Beverage, Fuel & Gas Delivery, Industrial Machinery, Medical, Mining, Mobile, Oil & Gas and Transportation. Products are available for shipment 24 hours a day, supported by 49 manufacturing facilities throughout the world, a global distribution network and 25 company-owned stocking service centers. Our commitment to you is impeccable customer service. To meet your specific requirements, we offer a broad range of programs designed to reduce your overall operating costs, streamline manufacturing, improve productivity, manage inventory, enhance delivery and address safety and environmental issues. For value-added services that generate value-added solutions, team up with Parker!



India HQ (Navi Mumbai)



Hose & Fittings Plant, Hyderabad



Hose Plant, Nagpur

Parker Hannifin India Pvt. Ltd. is India's leading hose and end fittings solutions provider catering to a wide range of industries. Offering an extensive spread of regular and customizable braided and multi-spiral hoses besides end-fittings, Parker is playing a vital role in enhancing productivity and growth of diverse industries including mining, construction, transportation, on-shore and off-shore oil exploration & drilling, cement manufacturing, machine tools, aviation and agricultural machinery.

Backed by two state-of-the-art ATEX certified manufacturing facilities at Hyderabad and Nagpur, Parker Hannifin India Pvt. Ltd. is delivering products that conform to DIN, EN, SAE, ISO, IS & BS specifications. And the type approvals for our products from globally acclaimed agencies like MSHA-USA, Directorate General Mines Safety DGMS-India & Pressure Equipment Directorate (ATEX) testify Parker's unflinching commitment to quality while ISO 9001: 2008 certification to Parker's Quality Management Systems reinforces the claim.

Apart from the above, Parker Hannifin India Pvt. Ltd. lays unrivaled emphasis on customer service. We constantly innovate to present a host of service solutions that reduce our customers' overall operating costs, streamline manufacturing, improve productivity, manage inventory, enhance delivery and address safety and environmental issues. Presently, the gamut of such path-breaking services encompasses Parker Tracking System (PTS), Parker Onsite and Complete Piping Solutions (CPS) among others.

So, team up with Parker to enjoy peerless products and seamless services. And together we can, usher newer paradigms of performance, productivity and profitability!

Table of contents

If you have questions about the products contained in this catalog, or their applications, please contact:

fcindia@parker.com

Extra care is taken in the preparation of this literature, but Parker is not responsible for any inadvertent typographical errors or omissions. Information is subject to change without notice. The information in this catalog is only accurate as of the date publication.

Offer of Sale

The items described in this document are hereby offered for sale by Parker Hannifin Corporation, its subsidiaries or its authorized distributors. This offer and its acceptance are governed by the provisions in the “Offer of Sale.”

www.parker.com/offerofofsale

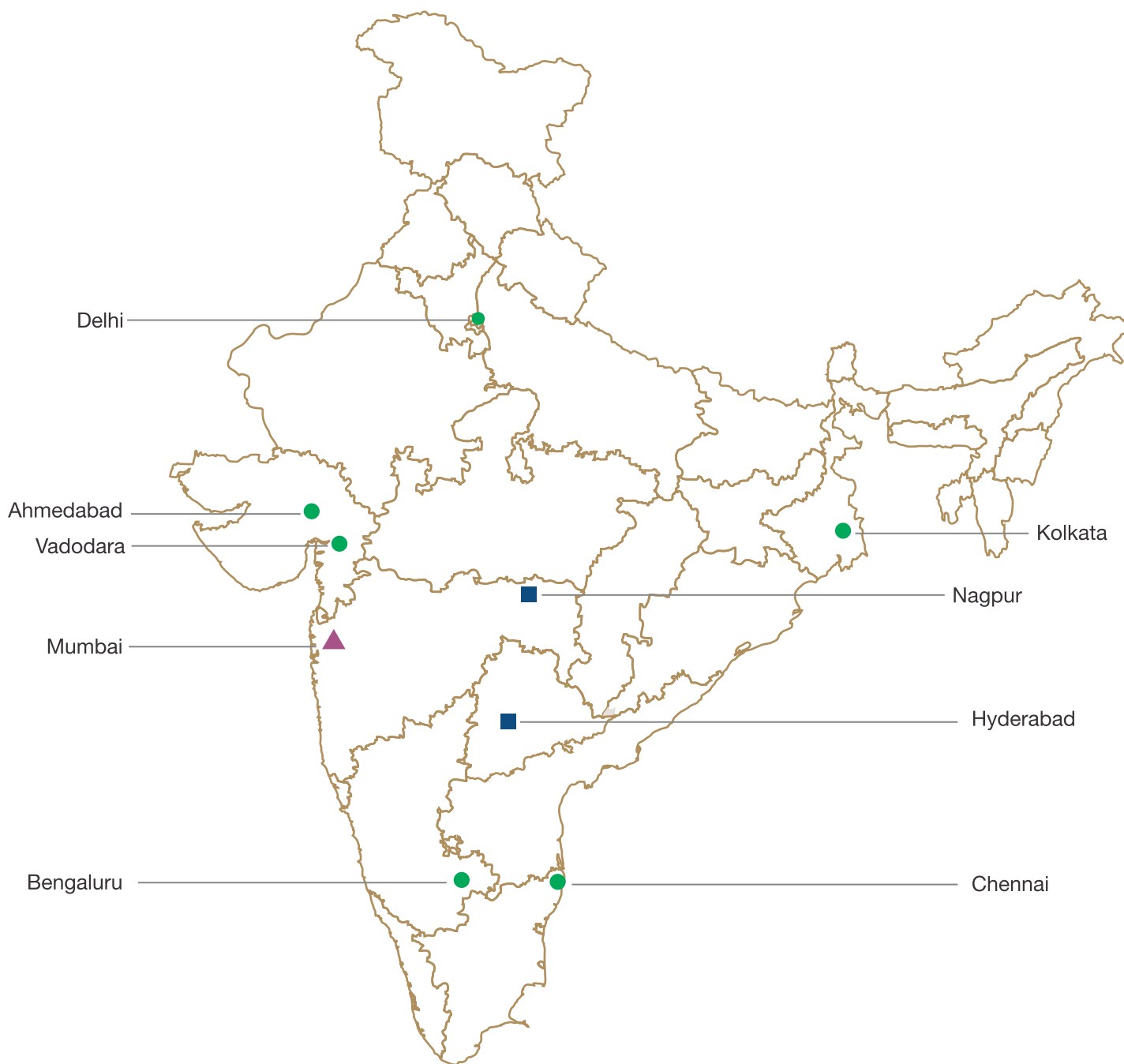
Air & Multipurpose
Material Handling
Oil & Gas
Oil Field
Petroleum Transport
Refrigerant
Steam
Water Jetting
Water
Chemical
Composite

A

Safety Guide
Safety Guide & MSDS Statement
Offer of Sale

B

Making our presence felt in India.



Global Services

End-to-end excellence!



PARKER TRACKING SYSTEM (PTS)

PTS helps customers reduce equipment and machinery downtime by increasing the speed, timing and accuracy of acquiring replacements. Using our web-based application, PTS generates a unique identification code for each hose assembly which is printed on a durable barcode or RFID label.

PTS can eliminate costly hours of equipment downtime, helping customers achieve greater productivity and profitability.

www.parker.com/pts



PARKER ONSITE

Parker OnSite brings our solutions to fabricate hose and tube assemblies to your worksite, even in the most remote locations. Parker OnSite containers are built to order and are an ideal maintenance and repair solution for Oil Fields, Mining, Forestry, Construction and any other industry that can't afford to have extended downtime.

www.parker.com/onsite



COMPLETE PIPING SOLUTIONS (CPS)

Combining the best non-welded piping system with a complete engineered piping services package, CPS offers your project incomparable assurance, efficiency and value.

CPS centers feature our Parflange F37 technology supported with engineering consultation, design, state-of-the art piping fabrication and installation.

www.completepipingsolutions.com



HoseFinder^{1.0}
Hose Selection Mobile App
India Version

MOBILE PHONE APP

Need a hose or fitting? We'll help you find it. Configure your selection by using Parker's STAMP process, or browse by category for a range of hoses, fittings and accessories. It's like a catalog in your pocket, only better. How can something so powerful, be so small?

The benefits of working with Parker Hose

The power of Parker in your hand.



HoseFinder^{1.0}
Hose Selection Mobile App
India Version

Parker is committed to delivering customer service options to help you work smarter, faster, and better.

And HoseFinder, our mobile app, makes it fast and convenient to search for hydraulic hose products and information on the go. The app features an abbreviated STAMP selection process to help you find what you need quickly and easily.

So, download the HoseFinder app to experience power of Parker.

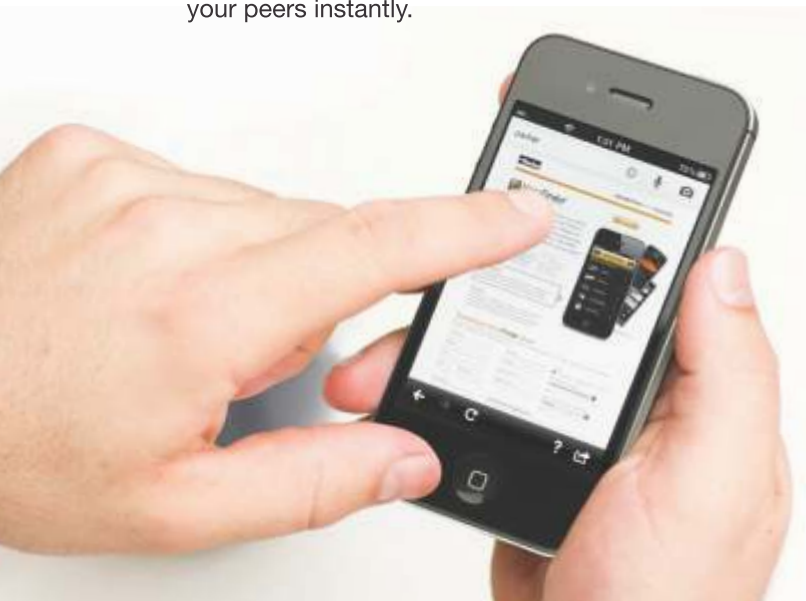
Need the latest? Go online. From complete product information on hose to 3D-CAD models of our complete fitting line, you'll find everything you need at www.parkerhose.com.

Whatever you do, visit our site often. It's the fastest and easiest way to keep up with changing technology and our ever expanding product offering.



Configure your selection by using Parker's STAMP process, or browse by category for thousands of hoses, fittings and accessories.

- 1 **Browse it.** It's easy to use.
- 2 **STAMP it.** Use the STAMP search or browse the catalog to find the product you are looking for.
- 3 **Search it.** Results include all the details you need to make an informed decision.
- 4 **Share it.** Send an e-mail of product snapshot along with the details to your peers instantly.



Browse it.

STAMP it.

Search it.

Find it & Share it.

Hose Selection

This catalog provides guidance for selecting the proper hose for the applications listed herein. It contains many cautions, descriptions, directions and warnings for the safe and proper use of Parker industrial hose. All aspects of hose selection criteria should be clearly understood before recommending, suggesting, specifying or using any hoses.

⚠ WARNING! Failure to follow recommended application information and recommended procedures for selection, installation, care, maintenance and storage of hose, couplings or hose assemblies may result in failure of the product to perform properly and may result in damage to property, serious bodily injury or death. Make sure that hose selected for any application is appropriate and suitable for that service. Application information is given with each hose listed in the Parker catalog. Refer to the [Safety and Technical Data section](#) of this catalog for information regarding safety, care, maintenance and storage. Contact Parker or your local Parker distributor for assistance.

Hose Selection Procedure

- A. If you know the Parker series number, find the page number in the “[Index by Series](#)” on pages ii through iv.
- B. If you don’t know the Parker series number, [see the “Index by Application and Name”](#) on pages v through xv, which is divided into various application categories.
- C. If you don’t know the Parker series number or name:
Use the “STAMPED” guide to assist in determining the correct hose, coupling, and attachment method when selecting a hose.

SIZE: Hose inside diameter, outside diameter and overall length

TEMPERATURE: Maximum temperature of the material being conveyed and of the application environment

APPPLICATION: External conditions/environment such as abrasion, bend radius, climate/temperature, crushing, flexing, kinking and exposure to chemicals, oil, ozone and ultraviolet light

MEDIA: Type and concentration of material being conveyed and compatibility with the hose

PRESSURE: Maximum system pressure, including pressure spikes

END S: Style, type, attachment method, pressure rating and material compatibility of end couplings and connections

DELIVERY: Testing, packaging and delivery requirements



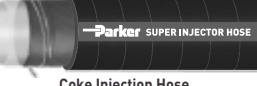



Other considerations: Abrasion, color, conductivity/nonconductivity, suction/vacuum; industry or regulatory specifications or standards

- D. If you can’t determine the appropriate or suitable hose or have special requirements, reach Parker Customer Service at fcindia@parker.com





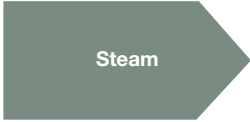











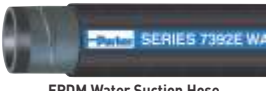
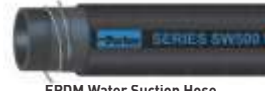
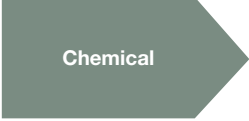









The hose listings in this catalog provide detailed information to help select the correct hose for most applications. Also refer to the [Safety and Technical section](#) of this catalog for general product information. The hose listings include recommended coupling styles. Refer to the [Couplings and Equipment section](#) of this catalog for specific product information.

⚠ WARNING! Many product pages contain comparisons to competitor products. These are provided as a tool to identify parts similar in form, fit, or function and are not intended as direct cross-references or direct interchanges to Parker products. The user must take care to compare any variances in materials and constructions between manufacturers, and to ensure the selected hose does not constitute a safety risk or change in required performance. For a more complete guide, refer to www.safehose.com

Hose Visual Index

 <p>Air & Multipurpose</p>	<p>GST®II A-1</p>  <p>General Service Hose Series 7093</p>	<p>Super MPT® A-1</p>  <p>Multipurpose Oil Resistant Hose-Nonconductive Series 7396</p>	<p>Super MPT® A-2</p>  <p>Multipurpose Oil Resistant Hose-Nonconductive Series 7397</p>
<p>AIRMASTER A-2</p>  <p>Exceeds IS 446 : 1980 TYPE 3 Series AMHPM</p>	<p>Dragon Breath® A-3</p>  <p>Hose Air Blower Hose Series SW360</p>	<p>MAXIFLEX® A-3</p>  <p>Lightweight Air Hose Series 7308E</p>	<p>MPW-1000® A-4</p>  <p>High Pressure Wire Braid Multipurpose Hose Series 7204</p>
<p>THORO-BRAID® A-4</p>  <p>Medium Pressure Wire Braid Multipurpose Hose Series 7251</p>	<p>YELLOW BIRD® A-5</p>  <p>High Pressure Wire Braid Mine and Multipurpose Hose Series 7284 MSHA</p>	<p>STINGER™II A-5</p>  <p>High Pressure Wire Braid Mine and Multipurpose Hose Series 7268E MSHA</p>	<p>E-Z FORM™ A-6</p>  <p>Multipurpose Hose Series 7219</p>
 <p>Material Handling</p>	<p>Dry Cement Hose A-7</p>  <p>1/8" SBR Tube Series SS135</p>	<p>Heavy Duty Dry Cement Hose A-7</p>  <p>1/4" SBR Tube Series SS247</p>	<p>CEMENT MASTER A-8</p>  <p>Series 7363RPM</p>
<p>FLY ASH HOSE A-8</p>  <p>Material Handling Hose Series 7363PM</p>	<p>Super Injector Hose A-8</p>  <p>Coke Injection Hose Series CKPM</p>	<p>GOLIATH™ A-9</p>  <p>High Pressure Grout Placement Hose Series SS201</p>	<p>CONCRETE HOSE A-9</p>  <p>Series CHPM</p>
<p>Sand Blast Hose A-10</p>  <p>Natural Rubber Tube Series 7244</p>	<p>Sand Recovery Hose A-10</p>  <p>Suction/Vacuum 3/16" Natural Rubber Tube Series SW409</p>	<p>Hot Tar & Asphalt Hose A-11</p>  <p>Series SW387</p>	<p>EDHPN A-11</p>  <p>Explosive Emulsion Dispensing Hose Series EDHPN</p>
<p>CERGOM10 A-12</p> 	 <p>Oil & Gas</p>	<p>MPOSD A-13</p>  <p>Multipurpose Suction & Discharge Hose Series MPD0SD2WR</p>	<p>SLIM HOSE ROTARY HOSE A-13</p>  <p>Oilfield Hose Series 701PM</p>
<p>SLIM HOLE HOSE (3 wire) A-14</p>  <p>Oilfield Hose Series 3WIREPM</p>	<p>SLIM HOLE HOSE (4 wire) A-14</p>  <p>Oilfield Hose Series 4WIREPM</p>	 <p>Oil Field</p>	<p>BS & W™ A-15</p>  <p>Corrugated Oil Field Suction/Vacuum Hose Series 7213E</p>
<p>WILDCATTER® A-15</p>  <p>Hot Oilier Hose Series 7301</p>	<p>TRANSLITE® A-16</p>  <p>Tank Truck Hose Series 7216E</p>	<p>PETROMAX™ A-16</p>  <p>Corrugated Tank Truck Hose Series SWC316</p>	 <p>Petroleum Transport</p>
<p>TITANFLEX® A-17</p>  <p>Corrugated Tank Truck Hose Series SWC609</p>	<p>TITANFLEX® A-17</p>  <p>Corrugated Tank Truck Hose Series SWC609R</p>	<p>FUEL DISPENSING HOSE A-18</p>  <p>Series BSPHPM</p>	<p>LPG HOSE A-18</p>  <p>Series LPGPM</p>

Hose Visual Index

<p>CNG HOSE A-19</p>  <p>Series CNGPMR</p>	<p>CNG 25 A-19</p>  <p>Series CNGPN</p>	<p>Refrigerant</p> 	<p>517 A-20</p>  <p>Refrigerant Hose Series 517PM</p>
<p>Steam</p> 	<p>THERMIC STEAM - I A-21</p>  <p>Series SH1PM</p>	<p>THERMIC STEAM - II A-21</p>  <p>Series SH2PM</p>	<p>Water Jetting</p> 
<p>SPIRABLAST 20K™ A-22</p>  <p>Water Jetting Hose Series SB20KPM</p>	<p>SPIRABLAST 25K™ A-22</p>  <p>Water Jetting Hose Series SB25KPM</p>	<p>SPIRABLAST 30K™ A-22</p>  <p>Water Jetting Hose Series SB30KPM</p>	<p>SPIRABLAST 36K™ A-23</p>  <p>Water Jetting Hose Series SB36KPM</p>
<p>SPIRABLAST 40K™ A-23</p>  <p>Water Jetting Hose Series SB40KPM</p>	<p>SPIRABLAST 50K™ A-23</p>  <p>Water Jetting Hose Series SB50KPM</p>	<p>Water</p> 	<p>EPDM Water Discharge Hose A-24</p>  <p>Series 7306E</p>
<p>SUPER-FLEX® A-24</p>  <p>EPDM Water Suction Hose Series 7392E</p>	<p>WALRUS™ A-25</p>  <p>EPDM Water Suction Hose Series SW500</p>	<p>Chemical</p> 	<p>BLUE THUNDER® A-26</p>  <p>UHMWPE Chemical Hose Series 7373T</p>
<p>TITANFLEX® A-26</p>  <p>UHMWPE Chemical Hose FDA, USDA, 3-A Series SWC693</p>	<p>Composite</p> 	<p>Vapour Recovery Hose A-27</p>  <p>Series 1000</p>	<p>Petroleum Transfer Hose A-27</p>  <p>Series 2100</p>
<p>Bottom Loading Hose A-28</p>  <p>Series 4500</p>	<p>Chemical Transfer Hose A-28</p>  <p>Series 3100</p>	<p>Aggressive Chemical Transfer Hose A-29</p>  <p>Series 4100</p>	<p>PTFE Chemical Transfer Hose A-29</p>  <p>Series 5100</p>



ENGINEERING YOUR SUCCESS.

Certificate




DET NORSKE VERITAS

ACKNOWLEDGEMENT OF RECEIPT - EC

ACKNOWLEDGEMENT NO. 4781-2011-CE-IND REV 1

This Acknowledgement consists of 3 pages
This is to confirm that the Technical File for the following product(s)

Parker Markwei Fuel Dispensing Hose and Fuel Dispensing Hose Assembly

with type designations(s)
See page 2

Manufactured by
Parker Hannifin India Private Limited
Ghouse No. 142, 145, 153 & 155, 157, Industrial Road Bangalore, Bangalore - 560023
India
Plot 28/29, Phase II, Panchsara, Model Town, Gurgaon, India-122019

has been received and stored according to the conformity assessment procedure described in Article 4.1.D(3), of Council Directive 94/9/EC (ATEX) of 23 March 1994, category 2 non-electrical equipment.

Further details are given on sheet

Place and date
Brevik, 2015-05-09
for DET NORSKE VERITAS AS



Ståle Sandstad
Certification Manager

This Acknowledgement is valid until
2017-06-06



Notes: This acknowledgement is subject to contractual conditions and/or any applicable changes in design or construction may render this acknowledgement invalid. The original signed and electronically timestamped document is the original and valid acknowledgement. See: www.dnv.com/technicaldocuments

This acknowledgement is subject to the conditions of use of the technical documents. For more information, please refer to the conditions of use of the technical documents. For more information, please refer to the conditions of use of the technical documents. For more information, please refer to the conditions of use of the technical documents.

DET NORSKE VERITAS AS Veritansveien 1, 1322 Høvik, Norway, +47 02178800, +47 02178811 Page 1 of 3




Ack. No.: 4781-2011-CE-IND Rev 1
Project No.: PRJC-248554-2010-PRC-IND

Justification
DNV is notified by the Directorate for Civil Protection and Emergency Planning in Notified Body (No. 0575) under the terms of the Norwegian regulation "Forskrift om utstyr og sikkerhetsystemer til bruk i eksplosjonsfarlig område", datert 1996-02-09 and Article 9 of Council Directive 94/9/EC (ATEX), as amended.

Acknowledgement history:

Revision	Description	Issue Date
-	Original Acknowledgement (96219-2011-CE-IND)	2011-04-11
-	New certificate for scope extension and site change	2014-05-05
1	Addition of data	2015-03-09

Product description
The following types are covered by the Acknowledgement:

Site	Product Description	Type Designation	Category	Product Group
Supplier Data	Parker Markwei Fuel Dispensing Hose and Fuel Dispensing Hose Assembly (As per EN ISO 2013 - Type 2)	16 mm, 18 mm, 21 mm, 25 mm & 32 mm 500 Series	2	Ex equipment - Non Electrical
Hydrant Data	Parker Markwei Fuel Dispensing Hose and Fuel Dispensing Hose Assembly (As per EN ISO 2013 - Type 3)	16 mm, 18 mm, 21 mm, 25 mm Series	2	Ex equipment - Non Electrical

Technical documentation
The following documentation has been received and stored:

Document No	Document Name
PHIATEX/PDI-02 Issue No. 01, Revision No.00	Technical Construction File for Rubber Hose & Hose Assemblies for Fuel Dispensing System
PHIATEX/PDI-02 Issue No. 02, Revision No.01	Technical Construction File for Rubber Hose & Hose Assemblies for Fuel Dispensing System

DET NORSKE VERITAS AS Veritansveien 1, 1322 Høvik, Norway, +47 02178800, +47 02178811 Page 2 of 3




Ack. No.: 4781-2011-CE-IND Rev 1
Project No.: PRJC-248554-2010-PRC-IND

Terms and conditions:
The product liability rests with the manufacturer. Its representative or, in the absence of a representative, the importer, in accordance with the General Product Safety Directive 2001/95/EC. The following conditions may render this acknowledgement invalid:

- Changes to the design or construction of the product;
- Changes or amendments to the referenced directive(s);
- Changes or amendments to the apparatus which form the basis for demonstrating compliance with the essential requirements of the directive(s).

Conformity declaration and marking of product
In order to fully meet with the requirements of the Directive and legally affix the CE mark, the manufacturer must take all measures necessary to ensure that the manufactured product complies with the technical documentation and with the requirements of the Directive and finally draw up an EC declaration of conformity.

END OF ACKNOWLEDGEMENT

DET NORSKE VERITAS AS Veritansveien 1, 1322 Høvik, Norway, +47 02178800, +47 02178811 Page 3 of 3



GST® II

General Service Hose Series 7093

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius	
	inch	mm	inch	mm	psi	bar	inch	mm
7093-25200	1/4	6.4	0.50	12.7	200	14	2.5	63.5
7093-31200	5/16	7.9	0.59	15.1	200	14	3.3	83.8
7093-38200	3/8	9.5	0.66	16.7	200	14	3.5	88.9
7093-50200	1/2	12.7	0.81	20.7	200	14	4.5	114.3
7093-75200	3/4	19.1	1.11	28.2	200	14	6.0	152.4
7093-100200	1	25.4	1.41	35.7	200	14	7.0	177.8

Application:

- Air (Including oil mist), mild chemicals & water.
- Agriculture, construction, & general industrial.

Vacuum : Not Recommended

Construction:

- Inner tube : Black EPDM; ARPM Class C oil resistance
- Reinforcement : Multiple textile plies
- Outer Cover : Black EPDM; Smooth finish

Design Factor : 4:1

Temp. Range

-30°C to +125°C
(-22°F to +257°F)

Super MPT®

Multipurpose Oil Resistant Hose - Nonconductive Series 7396



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m
7396-125200	1-1/4	31.8	1.74	44.2	200	13.8	7.5	190.5	0.72	1.07
7396-125300	1-1/4	31.8	1.82	46.2	300	20.7	7.5	190.5	0.86	1.27
7396-150200	1-1/2	38.1	1.99	50.5	200	13.8	8.5	215.9	0.84	1.25
7396-150300	1-1/2	38.1	2.05	52.1	300	20.7	8.5	215.9	0.94	1.39
7396-200200	2	50.8	2.57	65.2	200	13.8	12.0	304.8	1.25	1.86
7396-200300	2	50.8	2.60	66.0	300	20.7	12.0	304.8	1.33	1.97

Application:

Air, mid chemicals, oil, water
Cooling lines for electric furnaces and pot lines;
lubrication systems
Agriculture, construction, foundries, general industrial

Vacuum : Not Recommended

Construction:

- Inner Tube : Black nitrile; ARPM Class A oil resistance
- Reinforcement : Multiple textile plies
- Outer Cover : Red chloroprene, wrapped finish

Design Factor : 4:1

Temp. Range

-29°C to +100°C
(-20°F to + 212°F)

Super MPT®

Multipurpose Oil Resistant Hose - Nonconductive Series 7397



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m
7397-125200	1-1/4	31.8	1.74	44.2	200	13.8	7.5	190.5	0.73	1.08
7397-125300	1-1/4	31.8	1.82	46.2	300	20.7	7.5	190.5	0.87	1.29
7397-150200	1-1/2	38.1	1.99	50.5	200	13.8	8.5	215.9	0.84	1.25
7397-150300	1-1/2	38.1	2.05	52.1	300	20.7	8.5	215.9	0.96	1.42
7397-200200	2	50.8	2.57	65.2	200	13.8	12.0	304.8	1.27	1.88
7397-200300	2	50.8	2.60	66.0	300	20.7	12.0	304.8	1.35	2.00

Application:

Air, mid chemicals, oil, water
Cooling lines for electric furnaces and pot lines;
lubrication systems
Agriculture, construction, foundries, general industrial

Vacuum : Not Recommended

Construction:

Inner Tube : Black nitrile; ARPM
Class A oil resistance
Reinforcement : Multiple textile plies
Outer Cover : Red chloroprene,
wrapped finish

Design Factor : 4:1

Temp. Range

-29°C to +100°C
(-20°F to + 212°F)

AIRMASTER

Exceeds IS 446 : 1980 TYPE 3



# Part Number	Hose I.D.		Hose R.O.D.	Hose O.D.	Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	mm	mm	psi	bar	inch	mm	lbs/ft	kg/m
AMHPM-12PM	3/4	19.0	25.4	27.7	500	34	9.4	241	0.39	0.58
AMHPM-16PM	1	25.4	31.6	35.6	500	34	12.0	305	0.56	0.83
AMHPM-20PMYELLOW	1-1/4	31.8	40.0	43.0	500	34	16.0	419	0.81	1.20
AMHPM-24PMYELLOW	1-1/2	38.1	46.4	50.4	500	34	20.0	508	1.01	1.50
AMHPM-32PMYELLOW	2	50.8	59.5	63.5	500	34	25.0	635	1.30	1.94
AMHPM-40PMYELLOW	2-1/2	63.5	73.0	79.5	500	34	30.0	762	-	-
AMHPM-48PMYELLOW	3	78.2	86.4	94.5	500	34	36.0	915	2.90	4.33

Application:

Recommended for high
pressure rock drill & pneumatic
service in drilling of quarries,
construction & general industry.

Construction:

Inner tube : NBR - Synthetic rubber
Reinforcement : One high tensile steel wire
braid
Outer Cover : SBR - Synthetic rubber

Design Factor : 4:1

Temp. Range

-35°C to +100°C
(-31°F to +212°F)



Dragon Breath®

Hot Air Blower Hose Series SW360



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m
SW360-1500	1-1/2	38.1	2.01	51.1	200	13.8	5.0	127.0	0.89	1.32
SW360-2000	2	50.8	2.55	64.7	200	13.8	6.0	152.4	1.17	1.74
SW360-3000	3	76.2	3.58	90.9	200	13.8	12.0	304.8	1.97	2.93
SW360-4000	4	101.6	4.59	116.5	125	8.6	16.0	406.4	2.82	4.19
SW360-6000	6	152.4	6.67	169.4	100	6.9	24.0	609.6	4.93	7.33

Application:

Hot air blower systems
In-plant transfer; delivery,
loading/unloading
General industrial, transportation

Vacuum : Full

Construction:

Inner Tube : Black EPDM
Reinforcement : Multiple tire cord wraps
with helix wire
Outer Cover : Black EPDM

Design Factor : 4:1

Temp. Range

-34°C to +177°C Continuous
(-30°F to + 350°F Continuous)

MAXIFLEX®

Lightweight Air Hose Series 7308E



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Approx. Weight	
	inch	mm	inch	mm	psi	bar	lbs/ft	kg/m
7308E-1000300	1	25.4	1.48	37.6	300	20.7	0.52	0.77
7308E-1250300	1-1/4	31.8	1.74	44.2	300	20.7	0.63	0.93
7308E-1500300	1-1/2	38.1	2.06	52.3	300	20.7	0.85	1.26
7308E-2000300	2	50.8	2.59	65.8	300	20.7	1.16	1.72
7308E-2500300	2-1/2	63.5	3.09	78.5	300	20.7	1.41	2.09
7308E-3000300	3	76.2	3.59	91.2	300	20.7	1.66	2.47

Application:

Air, Water, Heavy duty air tools,
Compressors, Construction,
General Industrial, Mines, Quarries

Vacuum : Not Recommended

Construction:

Inner Tube : Black SBR
Reinforcement : Multiple textile plies
Outer Cover : Yellow SBR

Design Factor : 3:1

Temp. Range

-29°C to +100°C
(-20°F to + 212°F)

MPW-1000®**High Pressure Wire Braid Multipurpose Hose
Series 7204**

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m
7204-501	1/2	12.7	0.91	23.0	1000	68.9	7.0	177.8	0.34	0.50
7204-751	3/4	19.1	1.19	30.1	1000	68.9	10.0	254.0	0.52	0.77
7204-1001	1	25.4	1.50	38.1	1000	68.9	12.0	304.8	0.75	1.11

Application:

Air, Mild Chemicals, Oil, Water, Hot Asphalt, Glue, Oil, Tar and Wax, Steam, biodiesel (to B20 in dedicated and non-dedicated service), diesel, ethanol, gasoline. High Pressure Washdown, Cleaning Containment Vessels General Industrial, Manufacturing and Processing Plants, Refineries

Vacuum : Not Recommended

Construction:

Inner tube : Black nitrile
Reinforcement : One wire braid
Outer Cover : Black chloroprene; perforated wrapped finish

Design Factor : 4:1 (10:1 Steam@150psi/10.3 bar)

Temp. Range

Steam: -29°C to +187°C
(-20°F to +368°C)

Other: -29°C to +149°C
(-20°F to +300°F)
Intermittent: 177°C (350°F)

THORO-BRAID®**Medium Pressure Wire Braid Multipurpose Hose
Series 7251**

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m
7251-1501K	1-1/2	38.1	2.06	52.4	600	41.4	20.0	508.0	1.22	1.82
7251-2002K	2	50.8	2.65	67.5	600	41.4	25.0	635.0	1.88	2.81
7251-2502K	2-1/2	63.5	3.15	80.2	500	34.5	32.0	812.8	2.29	3.42
7251-3002K	3	76.2	3.65	92.9	500	34.5	36.5	927.1	2.72	4.06
7251-4002K	4	101.6	4.65	118.3	400	27.6	48.0	1219.2	3.62	5.40

Application:

Air, Mild Chemicals, Oil, Water Heavy Duty Air Tools, Compressors, Bull Hose, Drill Hose Construction, General Industrial, Mines and Quarriers

Vacuum : Not Recommended

Construction:

Inner tube : Black Chloroprene
Reinforcement : One or multiple wire braids
Outer Cover : Yellow nitrile/PVC; perforated wrapped finish

Design Factor : 4:1

Temp. Range

-29°C to +100°C
(-20°F to +212°C)

YELLOW BIRD®
**High Pressure Wire Braid Mine and Multipurpose Hose
Series 7284
MSHA**

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m
7284-381	3/8	9.5	0.700	17.8	1500	103.4	6.0	152.4	0.22	0.33
7284-501	1/2	12.7	0.969	24.6	1000	68.9	7.0	177.8	0.37	0.55
7284-751	3/4	19.1	1.219	31.0	1000	68.9	9.5	241.3	0.50	0.75
7284-1001	1	25.4	1.469	37.3	1000	68.9	12.0	304.8	0.68	1.02

Application:

Air, Water, Heavy Duty Air Tools, Compressors; Drill Hose, Dust Suppression in Mines, Construction, General Industrial, Mines and Quarries

Vacuum : Not Recommended

Construction:

Inner tube : Black SBR
Reinforcement : One wire braid
Outer Cover : Yellow nitrile/PVC; perforated wrapped finish

Design Factor : 4:1

Temp. Range

-29°C to +100°C
(-20°F to +212°F)

STINGER™ II
**High Pressure Wire Braid Mine and Multipurpose Hose
Series 7268E
MSHA**

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m
7268E-751	3/4	19.1	1.043	26.5	1000	68.9	6.0	152.4	0.31	0.49
7268E-1001	1	25.4	1.339	34.0	1000	68.9	8.0	203.2	0.52	0.75
7268E-1251	1-1/4	31.8	1.630	41.4	1000	68.9	12.0	304.8	0.65	0.98
7268E-1501	1-1/2	38.1	1.890	48.0	1000	68.9	14.0	355.6	0.85	1.27
7268E-2001	2	50.8	2.437	62.0	1000	68.9	18.0	457.2	1.14	1.70

Application:

Air, mild chemicals, oil, water Heavy duty air tools, compressors; drill hose, dust suppression in mines Construction, general industrial, Mines and Quarries

Vacuum : Not Recommended

Construction:

Inner tube : Black nitrile
Reinforcement : One wire braid
Outer Cover : Yellow nitrile/PVC; perforated wrapped finish

Design Factor : 4:1

Temp. Range

-29°C to +100°C
(-20°F to +212°F)

E-Z FORM™**Multipurpose Hose
Series 7219**

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m
7219-0500130	1/2	12.7	0.90	23.0	75	5.2	1.4	35.6	0.23	0.33
7219-0594130	19/32	1.1	0.98	2.0	75	5.2	1.8	45.7	0.25	0.36
7219-0625130	5/8	15.9	1.02	26.0	75	5.2	1.8	45.7	0.27	0.40
7219-0688130	11/16	17.5	1.10	28.0	75	5.2	1.8	45.7	0.29	0.42
7219-0750130	3/4	19.1	1.14	29.0	75	5.2	2.0	50.8	0.31	0.45
7219-0813130	13/16	20.6	1.18	30.0	75	5.2	2.0	50.8	0.32	0.49
7219-1000130	1	25.4	1.37	35.0	75	5.2	2.0	50.8	0.38	0.56
7219-1125130	1-1/8	28.6	1.49	38.0	75	5.2	2.6	66.0	0.42	0.62
7219-1188130	1-3/16	30.2	1.57	40.0	75	5.2	3.0	76.2	0.45	0.65
7219-1250130	1-1/4	31.8	1.69	43.0	75	5.2	3.1	78.7	0.50	0.75
7219-1375130	1-3/8	34.9	1.81	46.0	75	5.2	3.7	93.9	0.54	0.78
7219-1500130	1-1/2	38.1	1.92	49.0	75	5.2	3.9	99.1	0.58	0.85
7219-1563130	1-9/16	39.7	2.00	51.0	75	5.2	4.3	109.2	0.61	0.91
7219-1625130	1-5/8	41.3	2.08	53.0	75	5.2	4.7	119.4	0.64	0.95
7219-1750130	1-3/4	44.5	2.20	56.0	75	5.2	5.1	129.5	0.68	1.02
7219-2000130	2	50.8	2.48	63.0	75	5.2	5.9	149.9	0.96	1.44
7219-2188130	2-3/16	55.6	2.63	67.0	75	5.2	7.1	180.3	1.03	1.54
7219-2250130	2-1/4	57.1	2.75	70.0	75	5.2	7.9	200.7	1.08	1.60
7219-2375130	2-3/8	60.3	2.87	76.0	75	5.2	8.3	210.8	1.11	1.64
7219-2500130	2-1/2	63.5	3.01	76.5	75	5.2	8.7	221.0	1.17	1.73
7219-2563130	2-9/16	65.1	3.07	78.0	75	5.2	9.0	228.6	1.19	1.77
7219-2750130	2-3/4	69.9	3.30	84.0	75	5.2	9.8	248.9	1.40	2.09
7219-3000130	3	76.2	3.54	90.0	75	5.2	10.6	269.2	1.51	2.23
7219-3125130	3-1/8	79.4	3.70	94.0	75	5.2	11.8	299.7	1.57	2.32
7219-3500130	3-1/2	85.7	3.93	100.0	75	5.2	12.9	327.7	1.74	2.59
7219-3563130	3-9/16	90.5	4.13	105.0	75	5.2	13.8	350.5	1.96	2.91
7219-4000130	4	101.6	4.56	116.0	75	5.2	15.7	398.8	2.20	3.28

**Application:**

Biodiesel (to B20 in dedicated and non-dedicated service), diesel, ethanol, gasoline, oil
Oil suction/return lines; vehicle fuel fill connector lines; drain lines
Buses, cranes, mobile off-road equipment

Vacuum : Full

Construction:

Inner tube : Black nitrile
Reinforcement : Multiple textile plies with dual wire helix
Outer Cover : Black chloroprene; Greek corrugated finish

Design Factor : 4:1

Temp. Range

-29°C to +93°C
(-20°F to +200°F)



Dry Cement Hose

1/8" SBR Tube Series SS135



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Approx. Weight	
	inch	mm	inch	mm	psi	bar	lbs/ft	kg/m
SS135-3000	3	76.2	3.48	88.4	65	4.5	1.22	1.81
SS135-3500	3.5	88.9	3.98	101.0	65	4.5	1.40	2.08
SS135-4000	4	101.6	4.50	114.3	65	4.5	1.49	2.21
SS135-4500	4-1/2	114.3	5.00	127.0	65	4.5	1.71	2.54
SS135-5000	5	127.0	5.50	139.7	65	4.5	1.89	2.81
SS135-6000	6	152.4	6.50	165.1	65	4.5	2.31	3.43

Application:

Abrasive materials, dry cement, lime, powders, silica
Bulk transport trucks
Construction, general industrial

Vacuum : Not Recommended

Construction:

Inner tube : 1/8" Black SBR; static dissipating
Reinforcement : Multiple textile plies
Outer Cover : Black SBR; wrapped finish

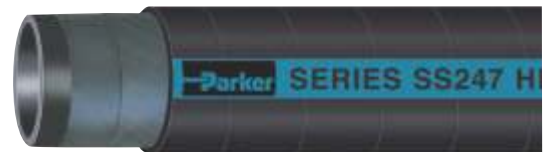
Design Factor : 4:1

Temp. Range

-40°C to +83°C
(-40°F to +180°F)

Heavy Duty Dry Cement Hose

1/4" SBR Tube Series SS247



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Approx. Weight	
	inch	mm	inch	mm	psi	bar	lbs/ft	kg/m
SS247-4000	4	101.6	4.75	120.7	75	5.2	2.49	3.70
SS247-4500	4-1/2	114.3	5.25	133.4	75	5.2	2.79	4.15
SS247-5000	5	127.0	5.75	146.1	75	5.2	3.11	4.62
SS247-6000	6	152.4	6.75	171.5	70	4.8	3.69	5.49
SS247-8000	8	203.2	8.75	222.3	60	4.1	4.88	7.26

Application:

Dry abrasive materials, Cement, Pebble lime, Powders, Sand, Silica
In-plant transfer/loading, Bulk transport trucks
Construction, General Industrial

Vacuum : Not Recommended

Construction:

Inner tube : 1/4" Black SBR; static dissipating
Reinforcement : Multiple textile plies
Outer Cover : Black SBR; wrapped finish

Design Factor : 3:1

Temp. Range

-40°C to +82°C
(-40°F to +180°F)

CEMENT MASTER



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m
7363R4PM-64PM	4.0	101.6	119.0		50	3.4	48.0	1220	3.04	4.48

Application:

Low pressure pneumatic transfer of bulk dry cement and pneumatic / Air feed line to the container

Construction:

Inner Tube : Synthetic Rubber
 Reinforcement : Multiple layers of fibre braid with one helical wire
 Outer Cover : Synthetic Rubber

Temp. Range

Max 65°C (Max 149°F)

FLY ASH HOSE



Material Handling Hose Series 7363PM

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m
7363PM-64PM	4	101.6	4.7	118.0	145	10	40	1016	2.23	3.3
7363PM-80PM	5	127.0	5.7	146.0	145	10	50	1270	3.32	4.9
7363PM-96PM	6	152.4	6.8	172.0	145	10	60	1524	4.06	6.0

Application:

For discharge of dry bulk materials, dry cement, sand, fly ash, gravels etc.

Construction:

Inner Tube : Abrasion resistant conductive rubber
 Reinforcement : High tensile synthetic textile & antistatic copper wire
 Outer Cover : Synthetic rubber

Temp. Range

-40°C to +70°C
 (-40°F to +158°F)

Vacuum : Not Recommended

Design Factor : 4:1

Super Injector Hose



Coke Injection Hose

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m
CKPM-24PM	1-1/2	38.1	2.25	57.2	145	10.0	10	254	1.24	1.85
CKPM-32PM	2.0	50.8	2.75	69.9	145	10.0	12	305	1.51	2.25

Application:

Conveyance of abrasive material like coke fines and alumina etc.

Construction:

Inner Tube : UHMWPE with Synthetic rubber on it.
 Reinforcement : Multiple layers of fiber braid with helical wire
 Outer Cover : Synthetic Rubber

Temp. Range

-40°C to +100°C Continuous



GOLIATH™

High Pressure Grout Placement Hose Series SS201



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Approx. Weight	
	inch	mm	inch	mm	psi	bar	lbs/ft	kg/m
SS201-1250	1-1/4	31.8	1.89	48.0	1200	82.7	0.79	1.17
SS201-1500	1-1/2	38.1	2.37	60.2	1200	82.7	1.35	2.00
SS201-2000	2	50.8	3.00	76.2	1200	82.7	2.0	2.97
SS201-2500	2-1/2	63.5	3.50	88.9	1000	68.9	2.5	3.72
SS201-3000	3	76.2	4.06	103.1	1000	68.9	3.36	5.00
SS201-4000	4	101.6	5.12	130.0	800	55.2	4.41	6.56

Application:

Abrasive materials, cement, grout, plaster, shotcrete
Construction, general industrial

Vacuum : Not Recommended

Construction:

Inner Tube : Black SBR
Reinforcement : Multiple textile plies
Outer Cover : Black SBR; wrapped finish

Design Factor : 2:1

Temp. Range

-40°C to +82°C Continuous
(+40°F to +180°F Continuous)

CONCRETE HOSE



# Part Number	Hose I.D.		Hose O.D.		Hose Length	Fitting O.D.	Working Pressure		Minimum Bend Radius	
	inch	mm	inch	mm			psi	bar	inch	mm
CHPM4148-80PM	5	127	6.10	155	4000	148	1232	85	60	1524
CHPM4167-80PM	5	127	6.10	155	4000	167	1232	85	60	1524
CHPMBARE-80PM	5	127	6.10	155	-	-	1232	85	60	1524

Application:

For Placement of Concrete to the Casting Locations.

Construction:

Inner Tube : Abrasion Resistant Synthetic Rubber
Reinforcement : High Tensile Steel Cords
Outer Cover : Synthetic Rubber

Temp. Range

-40°C to +70°C (-40°F to +158°F)

Sand Blast Hose

Natural Rubber Tube Series 7244



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Approx. Weight	
	inch	mm	inch	mm	psi	bar	lbs/ft	kg/m
7244-500	1/2	12.7	1.05	26.6	300	20.6	0.33	0.49
7244-750	3/4	19.0	1.52	38.6	300	20.6	0.68	1.01
7244-1000	1	25.4	1.86	47.2	300	20.6	0.95	1.41
7244-1250	1-1/4	31.8	2.12	53.8	300	20.6	1.12	1.66
7244-1500	1-1/2	38.1	2.36	59.9	300	20.6	1.28	1.90
7244-2000	2	50.8	2.87	72.8	300	20.6	1.61	2.39

Application:

Abrasive materials, sand
Clean, condition or strip cement, steel,
stone and other materials
Construction, general industrial, shipyards

Vacuum : Not Recommended

Construction:

Inner tube : Black natural rubber blend; static
conductive
Reinforcement : Multiple textile plies
Outer Cover : Black natural rubber blend - static
conductive

Design Factor : 3:1

Temp. Range

-29°C to +71°C
(-20°F to +160°F)

Sand Recovery Hose

Suction/Vacuum 3/16" Natural Rubber Tube Series SW409



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m
SW409-2000	2	50.8	2.75	69.9	200	13.8	6.0	152.4	1.56	2.32
SW409-2500	2-1/2	63.5	3.29	83.5	175	12.1	8.0	203.2	1.98	2.94
SW409-3000	3	76.2	3.75	95.3	175	12.1	12.0	304.8	2.45	3.64
SW409-4000	4	101.6	4.75	120.7	150	10.3	16.0	406.4	3.16	4.70
SW409-6000	6	152.4	6.81	173.0	100	6.9	24.0	609.6	5.39	8.02

Application:

Abrasive materials, debris, sand
Construction, general industrial,
mining, sand clean-up/recovery

Vacuum : Full

Construction:

Inner tube : 3/16" Black natural rubber; static
dissipating
Reinforcement : Multiple textile plies with dual wire helix
Outer Cover : Black SBR; wrapped finish

Design Factor : 4:1

Temp. Range

-40°C to +66°C
(-40°F to +150°F)

Hot Tar & Asphalt Hose

Series SW387



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m
SW387-1500	1-1/2	38.1	2.11	53.6	150	10.3	6.0	152.4	1.08	1.60
SW387-2000	2	50.8	2.65	67.3	150	10.3	8.0	203.2	1.55	2.30
SW387-2500	2-1/2	63.5	3.23	82.0	150	10.3	10.0	254.0	2.15	3.20
SW387-3000	3	76.2	3.72	94.5	150	10.3	12.0	304.8	2.59	3.85
SW387-4000	4	101.6	4.76	120.9	150	10.3	18.0	457.2	3.81	5.67

Application:

Hot asphalt, glue, oil, tar,
In-plant and storage tank transfer
Delivery, transport applicator trucks

Vacuum : Full

Construction:

Inner tube : Black Nitrile
Reinforcement : Multiple textile plies with dual wire helix
Outer Cover : Black Nitrile

Design Factor : 4:1

Temp. Range

-40°C to +149°C continuous
+177°C intermittent
(-40°F to +149°F continuous
+350°F intermittent)

EDHPN

Explosive Emulsion Dispensing Hose



# Part Number	Size		Hose I.D.		Hose O.D.	Working Pressure		Minimum Bend Radius		Approx. Weight	
	Dash	DN	inch	mm	mm	psi	bar	inch	mm	lbs/ft	kg/m
EDHPN-24PM	-24	38	1-1/2	38.1	50.5	500	35	20	510	0.95	1.41

Application:

Dispensing explosive emulsion
from mobile delivery unit to
drilled pit at blasting site.

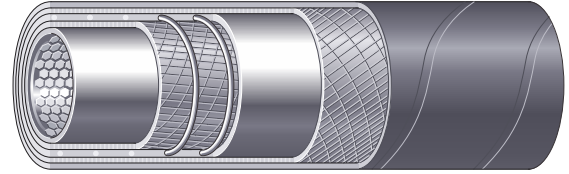
Construction:

Inner tube : NBR / SBR - Synthetic rubber with
oil & abrasion resistance
Reinforcement : One layer of high tensile steel wire braid
Outer Cover : CR - Synthetic black rubber with high
abrasion, flame, ozone and weather resistant

Temp. Range

- 40°C to +80°C
(-40°F to +176°F)

CERGM 10



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m
IH36829020/0	1	25	1.92	49	150	10	14.76	375	1.74	2.59
IH36829021/0	1.25	32	2.2	56	150	10	18.89	480	2.06	3.07
IH36829022/0	1.5	38	2.44	62	150	10	22.44	570	2.39	3.48
IH36829023/0	1.65	42	2.59	66	150	10	24.8	630	2.52	3.75
IH36829024/0	1.89	48	2.83	72	150	10	28.35	720	2.80	4.17
IH36829025/0	2.0	50	2.91	74	150	10	29.53	750	2.89	4.31
IH36829026/0	2.36	60	3.39	86	150	10	35.43	900	3.54	5.27
IH36829027/0	2.5	63.5	3.54	90	150	10	37.52	953	3.72	5.54
IH36829028/0	2.75	70	3.74	95	150	10	41.34	1050	4.03	6.0
IH36829029/0	2.95	75	3.93	100	150	10	44.29	1125	4.26	6.35
IH36829030/0	3.15	80	4.17	106	150	10	47.25	1200	4.66	6.93
IH36829031/0	4.0	100	5.12	130	150	10	59.05	1500	5.75	8.56
IH36829032/0	4.5	114	5.71	145	150	10	67.32	1710	8.89	13.24
IH36829033/0	5.0	125	6.18	157	150	10	73.82	1875	9.68	14.42
IH36829034/0	6.0	150	7.28	185	150	10	88.58	2250	13.04	19.42
IH36829035/0	8.0	203	9.64	245	150	10	119.88	3045	18.60	27.68

Application:

Suitable for compressed air and vacuum conveying systems for high abrasive materials, such as dry cement, coal powders, minerals, ceramic powders, glass fibres, etc. Developed for tough environments, such as mining, steelworks, ceramic and glass industries, insulating material manufacturers, etc.

Vacuum : Full

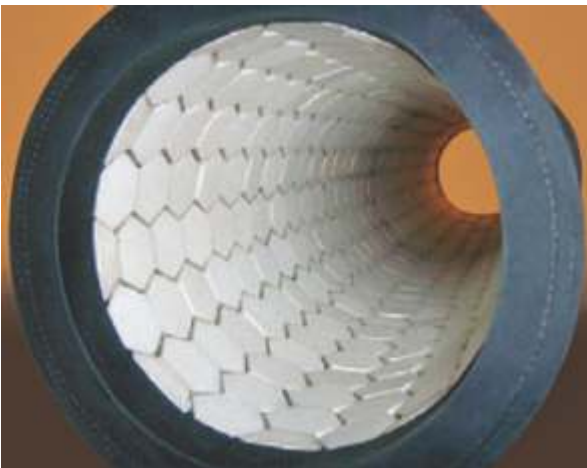
Construction:

Inner tube : CeramiC hexagonal plates, embedded in BR/NR-rubber.
 Reinforcement : Synthetic textile fabrics, embedded steel wire helix and build-in copper wire to provide electrical continuity.
 Outer Cover : NBR/SBR, black, smooth, abrasion resistant, antistatic (R=2,0 M /m), Resistant to ageing and weathering.

Design Factor : 3:1

Temp. Range

-30°C to +70°C
 (-22°F to +158°F)



MPOSD



Multipurpose Suction & Discharge Hose

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius	
	inch	mm	inch	mm	psi	bar	inch	mm
MPOSD2WR4PM - 32PM	2.0	50.8	2.80	71.1	600	41	24.0	610
MPOSD2WR4PM - 48PM	3.0	76.2	3.80	96.5	600	41	36.0	914
MPOSD2WR4PM - 64PM	4.0	101.6	4.80	121.9	500	34	48.0	1219

Application:

- Brine, crude oil, mild chemicals, petroleum waste, sediments, sludge, slurries, water.
- Frac tank transfer, oil field waste recovery, general industrial.

Vacuum : Full

Construction:

Inner tube : NBR - Synthetic rubber
 Reinforcement : Two braids steel wire with one helical wire
 Outer Cover : SBR - Synthetic rubber

Design Factor : 4:1

Temp. Range

-40°C to +100°C
 (-40°F to +212°F)

SLIM HOLE ROTARY HOSE



Oilfield Hose

# Part Number	Hose I.D.		Hose O.D.	Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	mm	psi	bar	inch	mm	lbs/ft	kg/m
701PM-40PM	2-1/2	63.5	81.3	3000	207	30.0	762	—	—
701PM-48PM	3	76.2	96.0	3000	207	43.5	1105	4.50	6.70
701PM-64PM	4	101.6	125.0	2000	138	59.0	1500	5.94	8.85

Application:

- Off-shore applications and hydraulic drill rigs.
- Suitable for petroleum based hydraulic fluids, synthetic esters, biodegradable hydraulic fluids, water-glycol based fluids and air.

Construction:

Inner Tube : CR - Synthetic rubber
 Reinforcement : Four steel wire spirals
 Outer Cover : SBR - Synthetic rubber

Temp. Range

-40°C to +121°C
 (-40°F to +250°F)

SLIM HOLE HOSE (3 wire)

Oilfield Hose



# Part Number	Hose I.D.		Hose O.D.	Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	mm	psi	bar	inch	mm	lbs/ft	kg/m
3WIREPM-40PM	2-1/2	63.5	86.0	1500	103	30.0	762	3.42	5.05

Application:

- Off-shore applications and hydraulic drill rigs.
- Suitable for petroleum based hydraulic fluids, synthetic esters, biodegradable hydraulic fluids, water-glycol based fluids and air.

Construction:

Inner Tube : NBR - Synthetic rubber
 Reinforcement : Three braids high tensile steel wire
 Outer Cover : SBR - Synthetic rubber

Temp. Range

-40°C to + 121°C
 (-40°F to +250°F)

SLIM HOLE HOSE (4 wire)

Oilfield Hose



# Part Number	Hose I.D.		Hose O.D.	Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	mm	psi	bar	inch	mm	lbs/ft	kg/m
4WIREPM-40PM	2-1/2	63.5	86.0	2600	179	30.0	762	4.37	6.45
4WIREPM-48PM	3	76.2	99.1	1375	95	43.5	1105	4.55	6.72

Application:

- Off-shore applications and hydraulic drill rigs.
- Suitable for petroleum based hydraulic fluids, synthetic esters, biodegradable hydraulic fluids, water-glycol based fluids and air.

Construction:

Inner Tube : NBR - Synthetic rubber
 Reinforcement : Four braids high tensile steel wire
 Outer Cover : SBR - synthetic rubber

Temp. Range

-40°C to + 121°C
 (-40°F to +250°F)

BS & W™



Corrugated Oil Field Suction / Vacuum Hose Series 7213E

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m
7213E-1500	1-1/2	38.1	1.95	50.2	150	10.3	4.0	101.6	0.72	1.07
7213E-2000	2	50.8	2.47	62.0	150	10.3	6.0	152.4	1.00	1.48
7213E-2500	2-1/2	63.5	3.00	75.0	150	10.3	9.0	228.6	1.30	1.93
7213E-3000	3	76.2	3.48	89.0	150	10.3	12.0	304.8	1.53	2.27
7213E-4000	4	101.6	4.54	116.0	150	10.3	16.0	406.4	2.27	3.37
7213E-6000	6	152.4	6.64	168.66	150	10.3	48.0	1219.2	4.19	6.23

Application:

Brine, crude oil, mild chemicals, petroleum waste, sediments, sludge, slurries, water, Oil field waste recovery, general industrial

Vacuum : Full

Construction:

Inner tube : Black nitrile/SBR
 Reinforcement : Multiple textile plies with wire helix
 Outer Cover : Black nitrile/SBR; corrugated wrapped finish

Design Factor : 3:1

Temp. Range

-30°C to +85°C
 (-22°F to +185°F)

WILDCATTER®



Hot Oiler Hose Series 7301

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m
7301-1502	1-1/2	38.1	2.0	50.8	2250	155.1	13.0	330.2	1.58	2.36

Application:

Hot asphalt, glue, tar, oil, wax
 In-plant transfer; delivery trucks
 Construction, general industrial, oil field

Vacuum : Not Recommended

Construction:

Inner tube : Black chloroprene
 Reinforcement : Multiple wire braids
 Outer Cover : Black chloroprene; wrapped finish

Design Factor : 3:1

Temp. Range

-40°C to +135°C/149°C
 (-40°F to +275°C/300°C)

TRANSLITE®

TANK TRUCK HOSE Series 7216E



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m
7216E1002	1	25.4	1.37	34.7	150	10.3	2.0	50.8	0.44	0.65
7216E-1252	1-1/4	38.1	1.65	41.9	150	10.3	3.0	76.2	0.58	0.86
7216E-1502	1-1/2	38.1	1.97	50.0	150	10.3	4.0	101.6	0.84	1.25
7216E-2002	2	50.8	2.50	63.5	150	10.3	6.0	152.4	1.12	1.66
7216E-2502	2-1/2	63.5	2.99	75.9	150	10.3	9.0	228.6	1.44	2.14
7216E-3002	3	76.2	3.54	89.9	150	10.3	12.0	304.8	1.89	2.81
7216E-4002	4	102.0	4.59	116.5	150	10.3	16.0	406.4	2.89	4.30
7216E-4500	4-1/2	114.3	5.22	132.5	150	10.3	24.0	609.6	3.51	5.22
7216E-5004	5	127.0	5.79	147.0	150	10.3	39.0	990.6	4.46	6.63
7216E-6004	6	152.4	6.81	172.9	150	10.3	48.0	1219.2	5.79	8.61
7216E-8004	8	203.2	8.98	228.0	75	5.1	72.0	1828.8	9.42	14.01
7216E-10000	10	254.0	11.11	282.1	75	5.1	90.0	2286.0	13.50	20.09

Application:

Biodiesel (to B20 in dedicated service), diesel, ethanol, gasoline, oil In-plant and storage tank transfer Delivery, Transport

Vacuum : Full

Construction:

Inner tube : Black nitrile
 Reinforcement : Multiple textile plies with wire helix
 Cover : Black synthetic rubber; wrapped finish

Design Factor : 4:1

Temp. Range

-37°C to +82°C
 (-35°F to +180°F)

PETROMAX™

Corrugated Tank Truck Hose Series SWC316



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m
SWC316-1500	1-1/2	38.1	1.96	49.8	150	10.3	4.0	10.2	0.77	1.14
SWC316-2000	2	50.8	2.45	62.2	150	10.3	5.0	12.7	0.98	1.45
SWC316-3000	3	76.2	3.50	88.9	150	10.3	9.0	22.9	1.74	2.58
SWC316-4000	4	101.6	4.50	114.3	150	10.3	12.0	30.5	2.27	3.37
SWC316-6000	6	152.4	6.75	171.5	150	10.3	18.0	45.7	5.31	7.90

Application:

Alkalies, Brine, Glycols, Herbicides, Mild Chemicals, Slurries, Water Agriculture, Construction, General Industrial, Irrigation, Surface Mining

Vacuum : Full

Construction:

Inner tube : Black Nitrile
 Reinforcement : Multiple textile plies with dual wire helix
 Outer Cover : Black nitrile; corrugated wrapped finish

Design Factor : 4:1

Temp. Range

-40°C to +93°C
 (-40°F to +200°F)



TITANFLEX®

Corrugated Tank Truck Hose Series SWC609



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m
SWC609-1250	1-1/4	31.8	1.71	43.4	250	17.2	1.5	38.1	0.66	0.98
SWC609-1500	1-1/2	38.1	1.96	49.8	250	17.2	1.5	38.1	0.77	1.14
SWC609-2000	2	50.8	2.45	62.2	250	17.2	2.0	50.8	0.98	1.45
SWC609-2500	2-1/2	63.5	2.95	74.9	200	13.8	2.5	63.5	1.25	1.86
SWC609-3000	3	76.2	3.50	88.9	200	13.8	3.0	76.2	1.74	2.59
SWC609-4000	4	101.6	4.50	114.3	150	10.3	4.0	101.6	2.27	3.37
SWC609-6000	6	152.4	6.76	171.7	150	10.3	8.0	203.2	5.30	7.88

Application:

Biodiesel (to B100 in dedicated service), diesel, ethanol, gasoline, oil, In-plant and storage tank transfer, Delivery, Transport

Vacuum : Full

Construction:

Inner tube : Black nitrile
 Reinforcement : Multiple textile plies with wire helix
 Cover : Black nitrile; corrugated wrapped finish

Design Factor : 4:1

Temp. Range

-40°C to +93°C
 (-40°F to +200°F)

TITANFLEX®

Corrugated Tank Truck Hose Series SWC609R



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m
SWC609R-1250	1-1/4	31.8	1.71	43.4	250	17.2	1.5	38.1	0.66	0.98
SWC609R-1500	1-1/2	38.1	1.96	49.8	250	17.2	1.5	38.1	0.77	1.14
SWC609R-2000	2	50.8	2.45	62.2	250	17.2	2.0	50.8	0.98	1.45
SWC609R-2500	2-1/2	63.5	2.95	74.9	200	13.8	2.5	63.5	1.25	1.86
SWC609R-3000	3	76.2	3.50	88.9	200	13.8	3.0	76.2	1.74	2.59
SWC609R-4000	4	101.6	4.50	114.3	150	10.3	4.0	101.6	2.27	3.37
SWC609R-6000	6	152.4	6.76	171.7	150	10.3	8.0	203.2	5.30	7.88

Application:

Biodiesel (to B100 in dedicated service), diesel, ethanol, gasoline, oil, In-plant and storage tank transfer, Delivery, Transport

Vacuum : Full

Construction:

Inner tube : Black nitrile
 Reinforcement : Multiple textile plies with wire helix
 Cover : Red nitrile; corrugated wrapped finish

Design Factor : 4:1

Temp. Range

-40°C to +93°C
 (-40°F to +200°F)



FUEL DISPENSING HOSE

BS EN 1360 TYPE3

# Part Number	Hose I.D.		Hose R.O.D	Hose O.D	Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	mm	mm	psi	bar	inch	mm	lbs/ft	kg/m
BSPHPM-10PM BLACK	5/8	16.0	22.2	25.3	232	16	3.0	80	0.36	0.53
BSPHPM-12PM BLACK	3/4	19.0	24.2	26.4	232	16	4.0	100	0.38	0.56
BSPHPM-14PM BLACK	-	21.0	-	28.5	232	16	5.0	125	0.44	0.65
BSPHPM-16PM BLACK	1	25.4	30.2	32.5	232	16	6.0	150	0.48	0.71

* For other color hose please change the suffix accordingly. Hose colors available in GRN BLU RED YEL

PDH manufactured as per BS EN 1360-Type 3 : 2013

Confirms to Council Directive 94/9/EC of (ATEX) of 23 March 1994 category 2 non electrical equipments

*Factory made Hose assemblies only

Application:

Recommended for low pressure petrol / diesel dispensing applications.

Construction:

Inner Tube : NBR - Synthetic rubber
 Reinforcement : One braid steel wire
 Outer Cover : NBR - PVC Synthetic rubber

Temp. Range

-40°C to +55°C
 (-40°F to + 131°F)

Type Approvals:

ATEX Approved*

LPG HOSE

BS 4089: 1989 TYPE 1



# Part Number	Hose I.D.		Hose O.D	Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	mm	psi	bar	inch	mm	lbs/ft	kg/m
LPGPM-6PM	3/8	9.5	19.6	362	25	4.7	120	0.28	0.42
LPGPM-8PM	1/2	12.7	22.8	362	25	5.9	150	0.33	0.48
LPGPM-10PM	5/8	15.9	26.0	362	25	7.0	185	-	-
LPGPM-12PM	3/4	19.0	30.1	362	25	8.8	225	0.54	0.80
LPGPM-16PM	1	25.4	37.9	362	25	11.8	300	0.73	1.08
LPGPM-20PM	1-1/4	31.8	46.0	362	25	14.9	380	0.91	1.35
LPGPM-24PM	1-1/2	38.1	52.4	362	25	17.7	450	1.06	1.56
LPGPM-32PM	2	50.8	66.7	362	25	23.6	600	1.42	2.10

Application:

Recommended for LPG handling.

Construction:

Inner tube : NBR - Synthetic rubber
 Reinforcement : One high tensile steel wire braid
 Outer Cover : CR - Synthetic rubber

Temp. Range

-20°C to +45°C
 (-4°F to +113°F)



CNG HOSE

SAE J30 R6



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius	
	inch	mm	inch	mm	psi	bar	inch	mm
CNGPMR-4PM	1/4	6.4	0.50	12.7	50	0.34	5.0	127
CNGPMR-5PM	5/16	7.9	0.56	14.3	50	0.34	5.6	143
CNGPMR-6PM	3/8	9.5	0.63	15.9	50	0.34	6.3	159
CNGPMR-8PM	1/2	12.7	0.78	19.8	35	0.24	7.8	199
CNGPMR-12PM	3/4	19.1	1.13	28.6	35	0.24	11.3	286
CNGPMR-16PM	1	25.4	1.37	34.9	35	0.24	13.7	349

Application:

Compressed Natural Gas (CNG).

Construction:

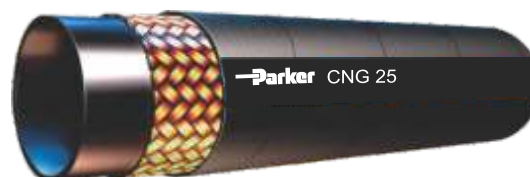
Inner tube : Synthetic rubber
 Reinforcement : One fibre braid
 Outer Cover : Synthetic rubber

Temp. Range

-5°C to 100°C
 (+23°F to +212°F)

CNG 25

Exceeds SAE J30 R6



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m
CNGPN-4PIX	1/4	6.4	0.49	12.4	363	25	2.75	70	0.10	0.15
CNGPN-5PIX	5/16	7.9	0.56	14.3	363	25	3.74	95	0.11	0.17
CNGPN-6PIX	3/8	9.5	0.62	15.9	363	25	4.72	120	0.16	0.24
CNGPN-8PIX	1/2	12.7	0.79	20.0	363	25	5.90	150	0.20	0.30
CNGPN-12PIX	3/4	19.0	1.12	28.6	363	25	9.05	230	0.43	0.65
CNGPN-16PIX	1	25.4	1.38	35.0	363	25	11.81	300	0.55	0.83

Application:

Transfer of CNG for industrial and general applications.
 Used as a connector in CNG conversion kit for automobiles.

Construction:

Inner tube : Seamless synthetic rubber tube compatible with CNG
 Reinforcement : One high tensile steel wire braid
 Outer Cover : Heat, abrasion, weather and ozone resistant synthetic rubber

Temp. Range

-40°C to +100°C
 (-40°F to +212°F)



517**Refrigerant Hose**

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m
517PM -8AC	1/2	12.7	0.92	23.4	510	35	4.53	115	0.38	0.53
517PM-10AC	5/8	15.9	1.07	27.3	510	35	5.31	135	0.40	0.60
517PM-12AC	3/4	19.0	1.16	29.7	510	35	5.90	150	0.43	0.65
517PM-14AC	7/8	22.2	1.24	31.5	785	54	6.50	165	0.54	0.74
517PM-18AC	1 1/8	28.6	1.50	38.0	500	34	7.40	187	0.65	0.91

Application:

Use for New-Refrigerant
(R-134A, R404A, R407C)
Bus-Cooler line.

Construction:

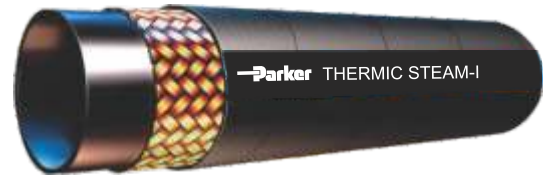
Inner tube : CIIR - Synthetic rubber
Reinforcement : One braid steel wire
Outer Cover : EPDM - Synthetic rubber

Temp. Range

-30°C to +125°C
(-22°F to +257°F)

THERMIC STEAM - I

IS 10655: 1999 TYPE 2 / BS 5342



# Part Number	Hose I.D.		Hose R.O.D	Hose O.D	Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	mm	mm	psi	bar	inch	mm	lbs/ft	kg/m
SH1PM-8PM	1/2	12.7	20.5	24.7	150	10	7.0	178	0.34	0.50
SH1PM-10PM	5/8	15.9	-	27.9	150	10	8.0	200	0.47	0.70
SH1PM-12PM	3/4	19.0	27.5	31.4	150	10	9.5	240	0.50	0.75
SH1PM-16PM	1	25.4	34.6	38.0	150	10	12.0	300	0.65	0.97
SH1PM-20PM	1-1/4	31.8	41.2	47.2	150	10	16.5	420	1.08	1.60
SH1PM-24PM	1-1/2	38.1	47.0	53.5	150	10	20.0	500	1.21	1.80
SH1PM-32PM	2	50.8	61.0	66.8	150	10	25.0	635	1.55	2.30

Application:

Steam at high temperature.

Construction:

Inner Tube : EPDM - Synthetic rubber
 Reinforcement : One high tensile steel wire braid
 Outer Cover : EPDM - Synthetic rubber

Temp. Range

Up to 184°C (Up to 363°F)

THERMIC STEAM - II

IS 10655: 1999 TYPE 3 / BS 5342



# Part Number	Hose I.D.		Hose R.O.D	Hose O.D	Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	mm	mm	psi	bar	inch	mm	lbs/ft	kg/m
SH2PM-8PM	1/2	12.7	21.8	26.7	232	16	7.0	178	0.48	0.72
SH2PM-10PM	5/8	15.9	-	29.9	232	16	8.0	200	0.60	0.90
SH2PM-12PM	3/4	19.0	28.9	33.4	232	16	9.5	240	0.67	1.00
SH2PM-16PM	1	25.4	35.8	40.0	232	16	12.0	300	0.77	1.15
SH2PM-20PM	1-1/4	31.8	42.8	50.0	232	16	16.5	419	1.21	1.80
SH2PM-24PM	1-1/2	38.1	48.6	56.7	232	16	20.0	500	1.55	2.30
SH2PM-32PM	2	50.8	62.6	70.0	232	16	25.0	635	1.68	2.50

Application:

Steam at very high temperature.

Construction:

Inner Tube : EPDM - Synthetic rubber
 Reinforcement : Two high tensile steel wire braids
 Outer Cover : EPDM - Synthetic rubber

Temp. Range

Up to 205°C
 (Up to 401°F)

SPIRABLAST 20K™



Water Jetting Hose

# Part Number	Hose I.D.		Hose R.O.D. mm	Hose O.D. mm	Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm			psi	bar	inch	mm	lbs/ft	kg/m
SB20KPM-6PM	3/8	9.5	17.5	20.0	8000	551	7.1	180	-	-
SB20KPM-8PM	1/2	12.7	20.2	23.2	8000	551	9.5	240	-	-
SB20KPM-12PM	3/4	19.0	28.2	32.0	8000	551	9.8	250	-	-
SB20KPM-16PM	1	25.4	35.2	38.5	8000	551	13.4	340	-	-

Application:

Water blast / Jetting.

Construction:

Inner Tube : CR - Synthetic rubber
 Reinforcement : Four high tensile steel wire spirals
 Outer Cover : SBR - Synthetic rubber

Temp. Range

0°C to +80°C Continuous
 (+32°F to + 176 °F Continuous)

SPIRABLAST 25K™



Water Jetting Hose

# Part Number	Hose I.D.		Hose R.O.D. mm	Hose O.D. mm	Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm			psi	bar	inch	mm	lbs/ft	kg/m
SB25KPM-6PM	3/8	9.5	17.5	21.2	10000	690	7.1	180	0.49	0.73
SB25KPM-8PM	1/2	12.7	20.2	24.4	10000	690	9.5	240	0.61	0.90
SB25KPM-12PM	3/4	19.0	28.4	32.0	10000	690	9.8	250	1.06	1.57
SB25KPM-16PM	1	25.4	35.2	38.3	10000	690	13.4	340	1.42	2.10

Application:

Water blast / Jetting.

Construction:

Inner Tube : CR - Synthetic rubber
 Reinforcement : Four high tensile steel wire spirals
 Outer Cover : SBR - Synthetic rubber

Temp. Range

0°C to +80°C Continuous
 (+32°F to + 176 °F Continuous)

SPIRABLAST 30K™



Water Jetting Hose

# Part Number	Hose I.D.		Hose R.O.D. mm	Hose O.D. mm	Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm			psi	bar	inch	mm	lbs/ft	kg/m
SB30KPM-6PM	3/8	9.5	17.5	21.4	12000	830	7.1	180	0.66	0.97
SB30KPM-8PM	1/2	12.7	22.6	25.7	12000	830	9.5	240	0.77	1.13
SB30KPM-12PM	3/4	19.0	29.0	32.4	12000	830	9.8	250	1.15	1.69

Application:

Water blast / Jetting.

Construction:

Inner Tube : CR - Synthetic rubber
 Reinforcement : Four high tensile steel wire spirals
 Outer Cover : SBR - Synthetic rubber

Temp. Range

0°C to +80°C Continuous
 (+32°F to + 176 °F Continuous)



SPIRABLAST 36K™**Water Jetting Hose**

# Part Number	Hose I.D.		Hose R.O.D	Hose O.D	Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	mm	mm	psi	bar	inch	mm	lbs/ft	kg/m
SB36KPM-6PM	3/8	9.5	19.0	22.8	14500	1000	7.9	200	0.70	1.03
SB36KPM-8PM	1/2	12.7	23.1	27.2	14500	1000	11.9	300	0.90	1.33

Application:

Water blast / Jetting.

Construction:

Inner Tube : CR - Synthetic rubber
 Reinforcement : Four high tensile steel wire spirals
 Outer Cover : SBR - Synthetic rubber

Temp. Range

0°C to +80°C Continuous
 (+32°F to + 176 °F Continuous)

SPIRABLAST 40K™**Water Jetting Hose**

# Part Number	Hose I.D.		Hose R.O.D	Hose O.D	Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	mm	mm	psi	bar	inch	mm	lbs/ft	kg/m
SB40KPM-6PM	3/8	9.5	19.0	23.0	15950	1100	5.9	150	0.67	1.01
SB40KPM-8PM	1/2	12.7	23.0	27.0	15950	1100	9.0	230	0.90	1.34

Application:

Water blast / Jetting.

Construction:

Inner Tube : CR - Synthetic rubber
 Reinforcement : Four high tensile steel wire spirals
 Outer Cover : SBR - Synthetic rubber

Temp. Range

0°C to +80°C Continuous
 (+32°F to + 176 °F Continuous)

SPIRABLAST 50K™**Water Jetting Hose**

# Part Number	Hose I.D.		Hose R.O.D	Hose O.D	Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	mm	mm	psi	bar	inch	mm	lbs/ft	kg/m
SB50KPM-6PM	3/8	9.5	22.7	25.5	20000	1380	7.9	200	-	-
SB50KPM-8PM	1/2	12.7	27.7	30.7	20000	1380	11.9	300	1.52	2.25

Application:

Water blast / Jetting

Construction:

Inner Tube : CR- Synthetic rubber
 Reinforcement : Four high tensile steel wire spirals
 Outer Cover : SBR - Synthetic rubber

Temp. Range

0°C to +80°C Continuous
 (+32°F to + 176 °F Continuous)

EPDM Water Discharge Hose

Series 7306E



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Approx. Weight	
	inch	mm	inch	mm	psi	bar	lbs/ft	kg/m
7306E-1500	1-1/2	38.1	1.81	45.9	150	10.3	0.49	0.72
7306E-2000	2	50.8	2.29	58.1	150	10.3	0.59	0.87
7306E-2500	2-1/2	63.5	2.79	70.8	150	10.3	0.73	1.08
7306E-3000	3	76.2	3.34	84.8	150	10.3	1.03	1.53
7306E-4000	4	102.0	4.39	111.5	150	10.3	1.45	2.15
7306E-6000	6	152.4	6.48	164.5	150	10.3	2.73	4.06

Application:

Alkalies, brine, glycols, herbicides, mild chemicals, slurries, water, Agriculture, construction, general industrial, irrigation, surface mining

Vacuum : Not Recommended

Construction:

Inner tube : Black EPDM
Reinforcement : Multiple textile plies
Outer Cover : Black EPDM; wrapped finish

Design Factor : 3:1

Temp. Range

-29°C to +82°C
(-20°F to +180°F)

SUPER-FLEX®

EPDM Water Suction Hose

Series 7392E



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m
7392E-1000	1	25.4	1.37	34.79	150	10.3	6.0	152.4	0.45	0.66
7392E-1250	1-1/4	31.7	1.61	40.8	150	10.3	6.0	152.4	0.56	0.83
7392E-1500	1-1/2	38.1	1.93	49.0	150	10.3	6.0	152.4	0.83	1.23
7392E-2000	2	50.8	2.42	61.5	150	10.3	7.0	177.8	1.01	1.50
7392E-2500	2-1/2	63.5	2.94	74.7	150	10.3	8.0	203.2	1.37	2.03
7392E-3000	3	76.2	3.53	89.6	150	10.3	10.0	254.0	1.99	2.96
7392E-3500	3-1/2	88.9	4.04	102.6	150	10.3	22.0	558.8	2.30	3.42
7392E-4000	4	101.6	4.54	115.3	150	10.3	22.0	558.8	2.83	4.21
7392E-6000	6	152.4	6.69	169.9	100	6.9	30.0	762.0	5.72	8.51
7392E-8000	8	203.2	8.78	223.0	100	6.9	38.0	965.2	9.09	13.52

Application:

Alkalies, Brine, Glycols, Herbicides, Mild Chemicals, Slurries, Water Agriculture, Construction, General Industrial, Irrigation, Surface Mining

Vacuum : Full

Construction:

Inner tube : Black EPDM
Reinforcement : Multiple textile plies with wire helix
Outer Cover : Black EPDM; wrapped finish

Design Factor : 3:1

Temp. Range

-40°C to +82°C
(-40°F to +212°F)



WALRUS™**EPDM Water Suction Hose
Series SW500**

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m
SW500-2000	2	50.8	2.5	63.5	150	10.3	7.0	177.8	1.19	1.77

Application:

Alkalies, Brine, Glycols, Herbicides,
Mild Chemicals, Slurries, Water Agriculture,
Construction, General Industrial, Irrigation,
Surface Mining

Vacuum : Full

Construction:

Inner Tube : Black EPDM
Reinforcement : Multiple textile plies with wire helix
Outer Cover : Black EPDM; wrapped finish

Design Factor : 3:1

Temp. Range

-40°C to +100°C Continuous
(-40°F to + 212°F Continuous)

A

B

BLUE THUNDER®**UHMWPE Chemical Hose
Series 7373T**

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m
7373T-750	3/4	19.1	1.19	30.3	200	13.8	3.0	76.2	0.40	0.59
7373-T1000	1	25.4	1.45	37.0	200	13.8	3.0	76.2	0.55	0.82
7373T-1250	1-1/4	31.8	1.70	43.2	200	13.8	4.0	101.6	0.64	0.95
7373T-1500	1-1/2	38.1	1.96	49.9	200	13.8	5.0	127.0	0.79	1.18
7373T-2000	2	50.8	2.56	65.0	200	13.8	6.0	152.4	1.27	1.90
7373T-2500	2-1/2	63.5	3.15	80.1	200	13.8	7.0	177.8	1.73	2.56
7373T-3000	3	76.2	3.64	92.6	200	13.8	7.0	177.8	2.12	3.15
7373T-4000	4	101.6	4.72	120.0	200	13.8	8.0	203.2	3.02	4.50

Application:

Acid, Chemicals, Solvents
In-plant and storage tank transfer
Delivery, transport

Vacuum : Full

Construction:

Inner tube : Translucent ultra high molecular weight polyethylene (UHMWPE)
Reinforcement : Multiple textile plies with dual wire helix
Outer Cover : Blue EPDM; corrugated wrapped finish

Design Factor : 4:1

Temp. Range

-40°C to +121°C
(-40°F to +250°F)

TITANFLEX®**UHMWPE Chemical Hose
FDA, USDA, 3-A
Series SWC693**

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m
SWC693-1000	1	25.4	1.37	34.9	250	17.2	1.0	25.4	0.38	0.56
SWC693-1250	1-1/4	31.8	1.62	41.3	250	17.2	1.3	33.0	0.48	0.72
SWC693-1500	1-1/2	38.1	1.87	47.8	250	17.2	1.5	38.1	0.62	0.92
SWC693-2000	2	50.8	2.43	61.9	250	17.2	2.0	50.8	0.93	1.34
SWC693-3000	3	76.2	3.43	87.3	200	13.8	4.5	114.3	1.45	2.17
SWC693-4000	4	101.6	4.50	114.3	200	13.8	8.0	203.2	2.17	3.22

Application:

Non-fatty and non-oily foods and liquids, potable water, sanitary products
Acids, chemicals, solvents, In-plant and tank transfer, delivery, transport

Vacuum : Full

Construction:

Inner tube : Translucent ultra ultra high molecular weight polyethylene (UHMWPE)
Reinforcement : Multiple textile plies with dual wire helix
Outer Cover : Green EPDM; corrugated wrapped finish

Design Factor : 4:1

Temp. Range

-40°C to +121°C
(-40°F to +250°F)



Vapour Recovery Hose

Series 1000



# Part Number	Hose I.D.		Working Pressure		Minimum Bend Radius		Approx. Weight		Max Length ft
	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m	
1000GG-4000	4	101.6	100	6.9	11.0	280.0	3.0	4.46	70
1000GG-6000	6	152.4	100	6.9	16.0	406.4	4.0	5.95	65
1000GG-8000	8	203.2	100	6.9	22.0	559.0	8.0	11.9	65
1000CG-10000	10	254.0	100	6.9	35.0	889.0	18.0	26.8	50

Application:

Petroleum and petrochemical vapor recovery in bottom loading, ship-to-shore and tank truck transfer

Note: Not for dry material service.

Vacuum : Full

Construction:

Inner Wire : Galvanized Steel (G)
 Inner Liner : Polypropylene fabric
 Cover : Yellow PVC-covered polyester
 Outer Wire : Galvanized Steel (G)

Design Factor : 4:1

Temp. Range

-40°C to +100°C
 (-40°F to +212°F)

Petroleum Transfer Hose

Series 2100



# Part Number	Hose I.D.		Working Pressure		Minimum Bend Radius		Approx. Weight		Max Length ft
	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m	
2100GG-1000	1	25.4	250	17.2	5.0	127.0	0.8	1.19	75
2100GG-1500	1-1/2	38.1	250	17.2	6.0	152.4	1.0	1.48	75
2100GG-2000	2	50.8	250	17.2	6.5	165.1	1.2	1.78	75
2100GG-2500	2-1/2	63.5	250	17.2	8.0	203.2	1.6	2.38	75
2100GG-3000	3	76.2	250	17.2	9.5	241.3	2.0	2.97	70
2100GG-4000	4	101.6	250	17.2	16.0	406.4	4.4	6.55	70
2100GG-6000	6	152.4	250	17.2	20.0	508.0	7.0	10.41	65
2100GG-8000	8	203.2	250	17.2	29.0	736.6	10.0	14.88	65
2100GG-10000	10	254.0	150	10.3	40.0	1016	23.0	34.23	50

Application:

Marine, plant processing, rail car, ship-to-shore, tank truck

Note: Not for dry material service.

Vacuum : Full

Construction:

Inner Wire : Galvanized Steel (G)
 Inner Liner : Polypropylene fabric
 Cover : Blue PVC-covered polyester
 Outer Wire : Galvanized Steel (G)

Design Factor : 4:1

Temp. Range

-40°C to +100°C
 (-40°F to +212°F)

Bottom Loading Hose

Series 4500



# Part Number	Hose I.D.		Working Pressure		Minimum Bend Radius		Approx. Weight		Max Length ft
	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m	
4500GG-3000	3	76.2	200	13.7	9.5	241.3	2.0	2.97	70
4500GG-4000	4	101.6	200	13.7	16.0	406.4	4.4	6.55	70

Application:

Hose loading arms in bottom loading applications at bulk distribution refining facilities

Note: Not for dry material service.

Vacuum : Full

Construction:

Inner Wire : Galvanized Steel (G)
 Inner Liner : Polypropylene fabric
 Cover : Blue PVC coated polyester
 Outer Wire : Galvanized Steel (G)

Design Factor : 4:1

Temp. Range

-40°C to +100°C
 (-40°F to +212°F)

Chemical Transfer Hose

Series 3100



# Part Number	Hose I.D.		Working Pressure		Minimum Bend Radius		Approx. Weight		Max Length ft
	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m	
3100PG-1000	1	25.4	250	17.2	5.0	127.0	0.8	1.19	75
3100PG-1500	1-1/2	38.1	250	17.2	6.0	152.4	1.0	1.48	75
3100PG-2000	2	50.8	250	17.2	6.5	165.1	1.2	1.78	75
3100PG-2500	2-1/2	63.5	250	17.2	8.0	203.2	1.6	2.38	75
3100PG-3000	3	76.2	250	17.2	9.5	241.3	2.0	2.97	70
3100PG-4000	4	101.6	250	17.2	16.0	406.4	4.4	6.55	70
3100PG-6000	6	152.4	250	17.2	20.0	508	7.0	10.41	65
3100PG-8000	8	203.2	250	17.2	29.0	736.6	10.0	14.88	65

Application:

Chemicals, inks, paints, plant processing, rail cars, tank trucks
 Note: Not for dry material service.

Vacuum : Full

Construction:

Inner Wire : Polypropylene-coated steel (P)
 Inner Liner : Polypropylene fabric
 Cover : Black PVC coated polyester
 Outer Wire : Galvanized Steel (G)

Design Factor : 4:1

Temp. Range

-40°C to +100°C
 (-40°F to +212°F)

Aggressive Chemical Transfer Hose

Series 4100



# Part Number	Hose I.D.		Working Pressure		Minimum Bend Radius		Approx. Weight		Max Length ft
	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m	
4100SS-1000	1	25.4	250	17.2	5.0	127.0	0.8	1.19	75
4100SS-1500	1-1/2	38.1	250	17.2	6.0	152.4	1.0	1.48	75
4100SS-2000	2	50.8	250	17.2	6.5	165.1	1.2	1.78	75
4100SS-2500	2-1/2	63.5	250	17.2	8.0	203.2	1.6	2.38	75
4100SS-3000	3	76.2	250	17.2	9.5	241.3	2.0	2.97	70
4100SS-4000	4	101.6	250	17.2	16.0	406.4	4.4	6.55	70
4100SS-6000	6	152.4	250	17.2	20.0	508.0	7.0	10.41	65
4100SS-8000	8	203.2	250	17.2	29.0	736.6	10.0	14.88	65

Application:

Chemicals, inks, paints, plant processing, rail cars, tank trucks
Note: Not for dry material service.

Vacuum : Full

Construction:

Inner Wire : Stainless Steel (S)
Inner Liner : Polypropylene fabric
Cover : Green PVC coated polyester
Outer Wire : Stainless steel (S)

Design Factor : 4:1

Temp. Range

-40°C to +100°C
(-40°F to +212°F)

PTFE Chemical Transfer Hose

Series 5100



# Part Number	Hose I.D.		Working Pressure		Minimum Bend Radius		Approx. Weight		Max Length ft
	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m	
5100SS-1000	1	25.4	250	17.2	5.0	127.0	0.8	1.19	75
5100SS-1500	1-1/2	38.1	250	17.2	6.0	152.4	1.0	1.48	75
5100SS-2000	2	50.8	250	17.2	6.5	165.1	1.2	1.78	75
5100SS-2500	2-1/2	63.5	250	17.2	8.0	203.2	1.6	2.38	75
5100SS-3000	3	76.2	250	17.2	9.5	241.3	2.0	2.97	70
5100SS-4000	4	101.6	250	17.2	16.0	406.4	4.4	6.55	70
5100SS-6000	6	152.4	250	17.2	20.0	508.0	7.0	10.41	65
5100SS-8000	8	203.2	250	17.2	29.0	736.6	10.0	14.88	65

Application:

Chemicals, inks, paints, plant processing, rail cars, tank trucks
Note: Not for dry material service.

Vacuum : Full

Construction:

Inner Wire : Stainless Steel (S)
Inner Liner : Polypropylene fabric
Cover : Green PVC coated polyester
Outer Wire : Stainless steel (S)

Design Factor : 4:1

Temp. Range

-40°C to +100°C
(-40°F to +212°F)

Safety Guide

Parker Safety Guide for Selecting and Using Hose, Tubing, Fittings and Related Accessories

Parker Publication No.4400-B-1
Revised : May, 2002

WARNING : Failure or improper selection use of hose, tubing, fittings, assemblies or related accessories ("Products") can cause death, personal injury and property damage. Possible consequences of failure or improper selection or improper use of these Products include but are not limited to:

Fittings thrown off at high speed.
High Velocity fluid discharge.
Explosion or burning of the conveyed fluid.
Electrocution from high voltage electric powerlines.
Contact with suddenly moving or falling objects that are controlled by the

Conveyed fluid.
* Injections by high-pressure fluid discharge.
* Dangerously whipping Hose.
Contact with conveyed fluids that may be hot, cold toxic or otherwise injurious.
* Sparking or explosion caused by static electricity buildup or other sources of electricity.
* Sparking or explosion while spraying paint or flammable liquids.
* Injuries resulting from inhalation, ingestion or exposure to fluids.

Before selecting or using any of these Products, it is important that you read and follow the instructions below. Only Hose from Parker's Stratoflex Products Division is approved for in flight aerospace applications, and no other Hose can be used for such in flight applications.

1.0 GENERAL INSTRUCTIONS

1.1 Scope : This safety guide provides instruction for selecting and using (including assembling, installing, and maintaining) these products. For convenience, all rubber and / or thermoplastic products commonly called "hose" or "tubing" are called "Hose" in this safety guide. All assemblies made with Hose are called "Hose" in this safety guide. All assemblies made with Hose are called "Hose Assemblies" All products commonly called "fittings" or "couplings" are called "Fittings" All related accessories (including crimping and swaging machines and tooling) are called "Related Accessories" This safety guide is a supplement to and is to be used with, the specific Parker publications for the specific Hose, Fittings and Related Accessories that are being considered for use.

1.2 Fail-Safe : Hose, and Hose Assemblies and Fittings can and do fail without warning for many reasons. Design all systems and equipment in a fail safe mode, so that failure of the Hose or Hose Assembly or Fitting will not endanger persons or property.

1.3 Distribution : Provide a copy of this safety guide to each person that is responsible for selecting or using Hose and fitting products. Do not select or use Parker Hose or fittings without thoroughly reading and understanding this safety guide as well as the specific Parker publications for the products considered or selected.

1.4 User Responsibility : Due to the wide variety of operating conditions and applications for Hose and fittings, Parker and its distributors do not represent or warrant that any particular Hose of Fitting is suitable for any specific end use system. This safety guide does not analyze all technical parameters that must be considered in selecting a product. The user, through its own analysis and testing, is solely responsible for :

- * Making the final selection of the Hose and Fitting
- * Assuring that the user's requirements are met and that the application presents no health or safety hazards.
- * Providing all appropriate health and safety warnings on the equipment on which the Hose and Fittings are used.
- * Assuring compliance with all applicable government and industry standards.

1.5 Additional Questions: Call the appropriate Parker technical service department if you have any questions or require any additional information. See the Parker publication for the product being considered or used, or call 1-800-CPARKER, or go to www.parker.com, for telephone numbers of the appropriate technical service department.

2.0 HOSE AND FITTING SELECTION INSTRUCTIONS

2.1 Electrical Conductivity: Certain applications require that the Hose be nonconductive to prevent electrical current flow. Other applications require the Hose and the Fitting and the Hose/Fitting interface to be sufficiently conductive to drain off static electricity. Extreme care must be exercised when selecting Hose and Fittings for these or any other applications in which electrical conductivity or nonconductivity is a factor.

The electrical conductivity or nonconductivity of Hose and Fittings is dependent upon many factors and may be susceptible to change. These factors include but are not limited to the various materials used to make the Hose and the Fittings, Fitting finish (some Fitting finishes are electrically conductive while others are non-conductive), manufacturing methods (including moisture control), how the Fittings contact the Hose, age and amount of deterioration or damage or other changes, moisture content of the Hose at any particular time, and other factors. The following are considerations for electrically nonconductive and conductive Hose. For other applications consult the individual catalog pages and the appropriate industry or regulatory standards for proper selection.

2.1.1 Electrically Nonconductive Hose: Certain applications require that the Hose be nonconductive to prevent electrical current flow or to maintain electrical isolation. For these applications that require Hose to be electrically nonconductive, including but not limited to applications near high voltage electric lines, only special nonconductive Hose can be used. The manufacturer of the equipment in which the nonconductive Hose is to be used must be consulted to be certain that the Hose and Fittings that are selected are proper for the application. Do not use any Parker Hose or Fitting for any such application requiring nonconductive Hose, including but not limited to applications near high voltage electric lines, unless (i) the application is expressly approved in the Parker technical publication for the product, (ii) the Hose is marked "nonconductive", and (iii) the manufacturer of the equipment on which the Hose is to be used specifically approves the particular Parker Hose and Fitting for such use.

2.1.2 Electrically Conductive Hose: Parker manufactures special Hose for certain applications that require electrically conductive Hose. Parker manufactures special Hose for conveying paint in airless paint spraying applications. This Hose is labeled "Electrically Conductive Airless Paint Spray Hose" on its layline and packaging. This Hose must be properly connected to the appropriate Parker Fittings and properly grounded in order to dissipate dangerous static charge buildup, which occurs in all airless paint spraying applications. Do not use any other Hose for airless paint spraying, even if electrically conductive. Use of any other Hose or failure to properly connect the Hose can cause a fire or an explosion resulting in death, personal injury, and property damage. Parker manufactures a special Hose for certain compressed natural gas ("CNG") applications where static electricity buildup may occur. Parker CNG Hose assemblies comply with AGA Requirements 1-93, "Hoses for Natural Gas Vehicles and Fuel Dispensers". This Hose is labeled "Electrically Conductive for CNG Use" on its layline and packaging. This Hose must be properly connected to the appropriate Parker Fittings and properly grounded in order to dissipate dangerous static charge buildup, which occurs in, for example, high velocity CNG dispensing or transfer. Do not use any other Hose for CNG applications where static charge buildup may occur, even if electrically conductive. Use of other Hoses in CNG applications or failure to properly connect or ground this Hose can cause a fire or an explosion resulting in death, personal injury, and property damage. Care must also be taken to protect against CNG permeation through the Hose wall. See section 2.6, Permeation, for more information. Parker CNG Hose is intended for dispenser and vehicle use at a maximum temperature of 180 °F. Parker CNG Hose should not be used in confined spaces or unventilated areas or areas exceeding 180 °F. Final assemblies must be tested for leaks. CNG Hose Assemblies should be tested on a monthly basis for conductivity per AGA 1-93.

Parker manufactures special Hose for aerospace in flight applications. Aerospace in flight applications employing Hose to transmit fuel, lubricating fluids and hydraulic fluids require a special Hose with a conductive inner tube. This Hose for in flight applications is available only from Parker's Stratoflex Products Division. Do not use any other Parker Hose for in flight applications, even if electrically conductive. Use of other Hoses for in flight applications or failure to properly connect or ground this Hose can cause a fire or an explosion resulting in death, personal injury, and property damage. These Hose assemblies for in flight applications must meet all applicable aerospace industry, aircraft engine, and aircraft requirements.

2.2 Pressure: Hose selection must be made so that the published maximum recommended working pressure of the Hose is equal to or greater than the maximum system pressure. Surge pressures system must be below the

published maximum working pressure for the Hose. Surge pressures and peak pressures can usually only be determined by sensitive electrical instrumentation that measures and indicates pressures at millisecond intervals. Mechanical pressure gauges indicate only average pressures and cannot be used to determine surge pressures or peak transient pressures. Published burst pressure ratings for Hose is for manufacturing test purposes only and is no indication that the Product can be used in applications at the burst pressure or otherwise above the published maximum recommended working pressure.

2.3 Suction: Hoses used for suction applications must be selected to insure that the Hose will withstand the vacuum and pressure of the system. Improperly selected Hose may collapse in suction application.

2.4 Temperature: Be certain that fluid and ambient temperatures, both steady and transient, do not exceed the limitations of the Hose. Temperatures below and above the recommended limit can degrade Hose to a point where a failure may occur and release fluid. Properly insulate and protect the Hose Assembly when routing near hot objects (e.g. manifolds). Do not use any Hose in any application where failure of the Hose could result in the conveyed fluids (or vapors or mist from the conveyed fluids) contacting any open flame, molten metal, or other potential fire ignition source that could cause burning or explosion of the conveyed fluids or vapors.

2.5 Fluid Compatibility: Hose Assembly selection must assure compatibility of the Hose tube, cover, reinforcement, and Fittings with the fluid media used. See the fluid compatibility chart in the Parker publication for the product being considered or used. This information is offered only as a guide. Actual service life can only be determined by the end user by testing under all extreme conditions and other analysis. Hose that is chemically compatible with a particular fluid must be assembled using Fittings and adapters containing likewise compatible seals.

2.6 Permeation: Permeation (that is, seepage through the Hose) will occur from inside the Hose to outside when Hose is used with gases, liquid and gas fuels, and refrigerants (including but not limited to such materials as helium, diesel fuel, gasoline, natural gas, or LPG). This permeation may result in high concentrations of vapors which are potentially flammable, explosive, or toxic, and in loss of fluid. Dangerous explosions, fires, and other hazards can result when using the wrong Hose for such applications. The system designer must take into account the fact that this permeation will take place and must not use Hose if this permeation could be hazardous. The system designer must take into account all legal, government, insurance, or any other special regulations which govern the use of fuels and refrigerants. Never use a Hose even though the fluid compatibility is acceptable without considering the potential hazardous effects that can result from permeation through the Hose Assembly. Permeation of moisture from outside the Hose to inside the Hose will also occur in Hose assemblies, regardless of internal pressure. If this moisture permeation would have detrimental effects (particularly, but not limited to refrigeration and air conditioning systems), incorporation of sufficient drying capacity in the system or other appropriate system safeguards should be selected and used.

2.7 Size: Transmission of power by means of pressurized fluid varies with pressure and rate of flow. The size of the components must be adequate to keep pressure losses to a minimum and avoid damage due to heat generation or excessive fluid velocity.

2.8 Routing: Attention must be given to optimum routing to minimize inherent problems (kinking or flow restriction due to Hose collapse, twisting of the Hose, proximity to hot objects or heat sources).

2.9 Environment: Care must be taken to insure that the Hose and Fittings are either compatible with or protected from the environment (that is, surrounding conditions) to which they are exposed. Environmental conditions including but not limited to ultraviolet radiation, sunlight, heat, ozone, moisture, water, salt water, chemicals, and air pollutants can cause degradation and premature failure.

2.10 Mechanical Loads: External forces can significantly reduce Hose life or cause failure. Mechanical loads which must be considered include excessive flexing, twist, kinking, tensile or side loads, bend radius, and vibration. Use of swivel type Fittings or adapters may be required to insure no twist is put into the Hose. Unusual applications may require special testing prior to Hose selection.

2.11 Physical Damage: Care must be taken to protect Hose from wear, snagging, kinking, bending smaller than minimum bend radius, and cutting, any of which can cause premature Hose failure. Any Hose that has been kinked or bent to a radius smaller than the minimum bend radius, and any Hose that has been cut or is cracked or is otherwise damaged, should be removed and discarded.

2.12 Proper End Fitting: See instructions 3.2 through 3.5. These recommendations may be substantiated by testing to industry standards such as SAE

J517 for hydraulic applications, or MIL-A-5070, AS1339, or AS3517 for Hoses from Parker's Stratoflex Products Division for aerospace applications.

2.13 Length: When establishing a proper Hose length, motion absorption, Hose length changes due to pressure, and Hose and machine tolerances and movement must be considered.

2.14 Specifications and Standards: When selecting Hose and Fittings, government, industry, and Parker specifications and recommendations must be reviewed and followed as applicable.

2.15 Hose Cleanliness: Hose components may vary in cleanliness levels. Care must be taken to insure that the Hose Assembly selected has an adequate level of cleanliness for the application.

2.16 Fire Resistant Fluids: Some fire resistant fluids that are to be conveyed by Hose require use of the same type of Hose as used with petroleum base fluids. Some such fluids require a special Hose, while a few fluids will not work with any Hose at all. See instructions 2.5 and 1.5. The wrong Hose may fail after a very short service. In addition, all liquids but pure water may burn fiercely under certain conditions, and even pure water leakage may be hazardous.

2.17 Radiant Heat: Hose can be heated to destruction without contact by such nearby items as hot manifolds or molten metal. The same heat source may then initiate a fire. This can occur despite the presence of cool air around the Hose.

2.18 Welding or Brazing: When using a torch or arc-welder in close proximity to hydraulic lines, the hydraulic lines should be removed or shielded with appropriate fire resistant materials. Flame or weld spatter could burn through the Hose and possibly ignite escaping fluid resulting in a catastrophic failure. Of plated parts, including Hose Fittings and adapters, above 450 °F (232 °C) such as during welding, brazing, or soldering may emit deadly gases.

2.19 Atomic Radiation: Atomic radiation affects all materials used in Hose assemblies. Since the long-term effects may be unknown, do not expose Hose assemblies to atomic radiation.

2.20 Aerospace Applications: The only Hose and Fittings that may be used for in flight aerospace applications are those available from Parker's Stratoflex Products Division. Do not use any other Hose or Fittings for in flight applications. Do not use any Hose or Fittings from Parker's Stratoflex Products Division with any other Hose or Fittings, unless expressly approved in writing by the engineering manager or chief engineer of Stratoflex Products Division and verified by the user's own testing and inspection to aerospace industry standards.

2.21 Unlocking Couplings: Ball locking couplings or other couplings with disconnect sleeves can unintentionally disconnect if they are dragged over obstructions or if the sleeve is bumped or moved enough to cause disconnect. Threaded couplings should be considered where there is a potential for accidental uncoupling.

3.0 HOSE AND FITTING ASSEMBLY AND INSTALLATION INSTRUCTIONS

3.1 Component Inspection: Prior to assembly, a careful examination of the Hose and Fittings must be performed. All components must be checked for correct style, size, catalog number, and length. The Hose must be examined for cleanliness, obstructions, blisters, cover looseness, kinks, cracks, cuts or any other visible defects. Inspect the Fitting and sealing surfaces for burrs, nicks, corrosion or other imperfections. Do NOT use any component that displays any signs of nonconformance.

3.2 Hose and Fitting Assembly: Do not assemble a Parker Fitting on a Parker Hose that is not specifically listed by Parker for that Fitting, unless authorized in writing by the engineering manager or chief engineer of the appropriate Parker division. Do not assemble a Parker Fitting on another manufacturer's Hose or a Parker Hose on another manufacturer's Fitting unless (i) the engineering manager or chief engineer of the appropriate Parker division approves the Assembly in writing or that combination is expressly approved in the appropriate Parker literature for the specific Parker product, and (ii) the user verifies the Assembly and the application through analysis and testing. For Parker Hose that does not specify a Parker Fitting, the user is solely responsible for the selection of the proper Fitting and Hose Assembly procedures. See instruction 1.4. The Parker published instructions must be followed for assembling the Fittings on the Hose. These instructions are provided in the Parker Fitting catalog for the specific Parker Fitting being used, or by calling 1-800-CPARKER, or at www.parker.com.

Do not crimp or swage another manufacturer's Fitting with a Parker crimp or swage die unless authorized in writing by the engineering manager or chief engineer of the appropriate Parker division.

3.4 Parts: Do not use any Parker Fitting part (including but not limited to socket, shell, nipple, or insert) except with the correct Parker mating parts, in accordance with Parker published instructions, unless authorized in writing by the engineering manager or chief engineer of the appropriate Parker division.

3.5 Reusable/Permanent: Do not reuse any field attachable (reusable) Hose Fitting that has blown or pulled off a Hose. Do not reuse a Parker permanent Hose Fitting (crimped or swaged) or any part thereof. Complete Hose Assemblies may only be reused after proper inspection under section 4.0. Do not assemble Fittings to any previously used hydraulic Hose that was in service, for use in a fluid power application.

3.6 Pre-Installation Inspection: Prior to installation, a careful examination of the Hose Assembly must be performed. Inspect the Hose Assembly for any damage or defects. Do NOT use any Hose Assembly that displays any signs of nonconformance.

3.7 Minimum Bend Radius: Installation of a Hose at less than the minimum listed bend radius may significantly reduce the Hose life. Particular attention must be given to preclude sharp bending at the Hose to Fitting juncture. Any bending during installation at less than the minimum bend radius must be avoided. If any Hose is kinked during installation, the Hose must be discarded.

3.8 Twist Angle and Orientation: Hose Assembly installation must be such that relative motion of machine components does not produce twisting.

3.9 Securement: In many applications, it may be necessary to restrain, protect, or guide the Hose to protect it from damage by unnecessary flexing, pressure surges, and contact with other mechanical components. Care must be taken to insure such restraints do not introduce additional stress or wear points.

3.10 Proper Connection of Ports: Proper physical installation of the Hose Assembly requires a correctly installed port connection insuring that no twist or torque is transferred to the Hose when the Fittings are being tightened or otherwise during use.

3.11 External Damage: Proper installation is not complete without insuring that tensile loads, side loads, kinking, flattening, potential abrasion, thread damage, or damage to sealing surfaces are corrected or eliminated. See instruction 2.10.

3.12 System Checkout: All air entrapment must be eliminated and the system pressurized to the maximum system pressure (at or below the Hose maximum working pressure) and checked for proper function and freedom from leaks. Personnel must stay out of potential hazardous areas while testing and using.

3.13 Routing: The Hose Assembly should be routed in such a manner so if a failure does occur, the escaping media will not cause personal injury or property damage. In addition, if fluid media comes in contact with hot surfaces, open flame, or sparks, a fire or explosion may occur. See section 2.4.

4.0 HOSE AND FITTING MAINTENANCE AND REPLACEMENT INSTRUCTIONS

4.1 Even with proper selection and installation, Hose life may be significantly reduced without a continuing maintenance program. The severity of the application, risk potential from a possible Hose failure, and experience with any Hose failures in the application or in similar applications should determine the frequency of the inspection and the replacement for the Products so that Products are replaced before any failure occurs. A maintenance program must be established and followed by the user and, at minimum, must include instructions 4.2 through 4.7.

4.2 Visual Inspection Hose/Fitting: Any of the following conditions require immediate shut down and replacement of the Hose Assembly:

- Fitting slippage on Hose,;
- Damaged, cracked, cut or abraded cover (any reinforcement exposed);
- Hard, stiff, heat cracked, or charred Hose;
- Cracked, damaged, or badly corroded Fittings;

- Leaks at Fitting or in Hose;;
- Kinked, crushed, flattened or twisted Hose; and
- Blistered, soft, degraded, or loose cover.

4.3 Visual Inspection All Other: The following items must be tightened, repaired, corrected or replaced as required:

- Leaking port conditions;;
- Excess dirt buildup;;
- Worn clamps, guards or shields; and
- System fluid level, fluid type, and any air entrapment.

4.4 Functional Test : Operate the system at maximum operating pressure and check for possible malfunctions and leaks. Personnel must avoid potential hazardous areas while testing and using the system. See section 2.2.

4.5 Replacement Intervals : Hose assemblies and elastomeric seals used on Hose Fittings and adapters will eventually age, harden, wear and deteriorate under thermal cycling and compression set. Hose Assemblies and elastomeric seals should be inspected and replaced at specific replacement intervals, based on previous service life, government or industry recommendations, or when failures could result in unacceptable downtime, damage, or injury risk. See section 1.2.

4.6 Hose Inspection and Failure: Hydraulic power is accomplished by utilizing high-pressure fluids to transfer energy and do work. Hoses, Fittings, and Hose Assemblies all contribute to this by transmitting fluids at high pressures. Fluids under pressure can be dangerous and potentially lethal and, therefore, extreme caution must be exercised when working with fluids under pressure and handling the Hoses transporting the fluids. From time to time, Hose Assemblies will fail if they are not replaced at proper time intervals. Usually these failures are the result of some form of misapplication, abuse, wear, or failure to perform proper maintenance. When Hoses fail, generally the high-pressure fluids inside escape in a stream which may or may not be visible to the user. Under no circumstances should the user attempt to locate the leak by "feeling" with their hands or any other part of their body. High-pressure fluids can and will penetrate the skin and cause severe tissue damage and possibly loss of limb. Even seemingly minor hydraulic fluid injection injuries must be treated immediately by a physician with knowledge of the tissue damaging properties of hydraulic fluid.

If a Hose failure occurs, immediately shut down the equipment and leave the area until pressure has been completely released from the Hose Assembly. Simply shutting down the hydraulic pump may or may not eliminate the pressure in the Hose Assembly. Many times check valves, etc., are employed in a system and can cause pressure to remain in a Hose Assembly even when pumps or equipment are not operating. Tiny holes in the Hose, commonly known as pinholes, can eject small, dangerously powerful but hard to see streams of hydraulic fluid. It may take several minutes or even hours for the pressure to be relieved so that the Hose Assembly may be examined safely.

Once the pressure has been reduced to zero, the Hose Assembly may be taken off the equipment and examined. It must always be replaced if a failure has occurred. Never attempt to patch or repair a Hose Assembly that has failed. Consult the nearest Parker distributor or the appropriate Parker division for Hose Assembly replacement information. Never touch or examine a failed Hose Assembly unless it is obvious that the Hose no longer contains fluid under pressure. The high-pressure fluid is extremely dangerous and can cause serious and potentially fatal injury.

4.7 Elastomeric seals : Elastomeric seals will eventually age, harden, wear and deteriorate under thermal cycling and compression set. Elastomeric seals should be inspected and replaced.

4.8 Refrigerant gases : Special care should be taken when working with refrigeration systems. Sudden escape of refrigerant gases can cause blindness if the escaping gases contact the eye and can cause freezing or other severe injuries if it contacts any other portion of the body.

4.9 Compressed natural gas (CNG) : Parker CNG Hose Assemblies should be tested after installation and before use, and at least on a monthly basis per AGA 1-93 Section 4.2 "Visual Inspection Hose/Fitting". The recommended procedure is to pressurize the Hose and check for leaks and to visually inspect the Hose for damage.

Caution: Matches, candles, open flame or other sources of ignition shall not be used for Hose inspection. Leak check solutions should be rinsed off after use.

MSDS 'S (Available upon request.)

Federal OSHA regulation 29 CFR 1910.1200 requires that we transmit to our customers Material Safety Data Sheets for all material covered under the law. If you are an employer in SIC 20-39 who has not yet received them, you are required to obtain them from us and provide the information to employees as directed in Section (b) of the regulation. Please contact the Hose Products Division - Technical Services Department: (PH)440-943-5700 (FAX)440-943-3129.



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B

The items described in this document and other documents or descriptions provided by Parker Hannifin Corporation, as subsidiaries and its authorized distributors are hereby offered for sale at prices to be established by Parker Hannifin Corporation, its subsidiaries and its authorized distributors. This offer and its acceptance by any customer ("Buyer") shall be governed by all of the following Terms and Conditions. Buyer's order for any such item, when communicated to Parker Hannifin Corporation, its subsidiary or an authorized distributor ("Seller") verbally or in writing, shall constitute acceptance of this offer.

1. Terms and Conditions of Sale: All descriptions, quotations, proposals, offers, acknowledgments, acceptances and sales of Seller's products are subject to and shall be governed exclusively by the terms and conditions stated herein. Buyer's acceptance of any offer to sell is limited to these terms and conditions. Any terms or conditions in addition to, or inconsistent with those stated herein, proposed by Buyer in any acceptance of an offer by Seller, are hereby objected to. No such additional, different or inconsistent terms and conditions shall become part of the contract between Buyer and Seller unless expressly accepted in writing by Seller. Seller's acceptance of any offer to purchase by Buyer is expressly conditional upon Buyer's assent to all the terms and conditions stated herein, including any terms in addition to, or inconsistent with those contained in Buyer's offer. Acceptance of Seller's products shall in all events constitute such assent.
2. Payment: Payment shall be made by Buyer net 30 days from the date of delivery of the items purchased hereunder. Any claims by Buyer for omissions or shortages in a shipment shall be waived unless Seller receives notice thereof within 30 days after Buyer's receipt of the shipment.
3. Delivery: Unless otherwise provided on the face hereof, delivery shall be made F.O.B. Seller's plant. Regardless of the method of delivery, however, risk of loss shall pass to Buyer upon Seller's delivery to a carrier. Any delivery dates shown are approximate only and Seller shall have no liability for any delays in delivery.
4. Warranty: Seller warrants that the items sold thereunder shall be free from defects in material or workmanship for a period of 365 days from the date of shipment to Buyer, or 2,000 hours of use, whichever expires first. THIS WARRANTY COMPRISES THE SOLE AND ENTIRE WARRANTY PERTAINING TO ITEMS PROVIDED HEREUNDER. SELLER MAKES NO OTHER WARRANTY, GAURANTEE, OR REPRESENTATION OF ANY KIND WHATSOEVER. ALL OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO, MERCHANTABILITY AND FITNESS FOR PURPOSE, WHETHER EXPRESS, IMPLIED, OR ARISING BY OPERATION OF LAW, TRADE USAGE, OR COURSE OF DEALING ARE HEREBY DISCLAIMED. NOTWITHSTANDING THE FOREGOING, THERE ARE NO WARRANTIES WHATSOEVER ON ITEMS BUILT OR ACQUIRED WHOLELY OR PARTIALLY, TO BUYER'S DESIGNS OR SPECIFICATIONS.
5. Limitation Of Remedy: SELLER'S LIABILITY ARISING FROM OR IN ANY WAY CONNECTED WITH THE ITEMS SOLD OR THIS CONTRACT SHALL BE LIMITED EXCLUSIVELY TO REPAIR OR REPLACEMENT OF THE ITEMS SOLD OR REFUND OF THE PURCHASE PRICE PAID BY BUYER, AT SELLER'S SOLE OPTION. IN NO EVENT SHALL SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY KIND OR NATURE WHATSOEVER, INCLUDING BUT NOT LIMITED TO LOST PROFITS ARISING FROM OR IN ANY WAY CONNECTED WITH THIS AGREEMENT OR ITEMS SOLD HEREUNDER, WHETHER ALLEGED TO ARISE FROM BREACH OF CONTRACT, EXPRESS OR IMPLIED WARRANTY, OR IN TORT, INCLUDING WITHOUT LIMITATION, NEGLIGENCE, FAILURE TO WARN OR STRICT LIABILITY.
6. Changes, Reschedules and Cancellations: Buyer may request to modify the designs or specifications for the items sold hereunder as well as the quantities and delivery dates thereof, or may request to cancel all or part of this order, however, no such requested modification or cancellation shall become part of the contract between Buyer and Seller unless accepted by Seller in a written amendment to this Agreement. Acceptance of any such requested modification or cancellation shall be at Seller's discretion, and shall be upon such terms and conditions as Seller may require.
7. Special Tooling: A tooling charge may be imposed for any special tooling, including without limitation, dies, fixtures, molds and patterns, acquired to manufacture items sold pursuant to this contract. Such special tooling shall be and remain Seller's property notwithstanding payment of any charges by

Buyer. In no event will Buyer acquire any interest in apparatus belonging to Seller which is utilized in the manufacture of the items sold hereunder, even if such apparatus has been specially converted or adapted for such manufacture and notwithstanding any charges paid by Buyer. Unless otherwise agreed, Seller shall have the right to alter, discard or otherwise dispose of any special tooling or other property in its sole discretion at any time.

8. Buyer's Property: Any designs, tools, patterns, materials, drawings, confidential information or equipment furnished by Buyer or any other items which become Buyer's property, may be considered obsolete and may be destroyed by Seller after two (2) consecutive years have elapsed without Buyer placing an order for the items which are manufactured using such property. Seller shall not be responsible for any loss or damage to such property while it is in Seller's possession or control.
9. Taxes: Unless otherwise indicated on the face hereof, all prices and charges are exclusive of excise, sales, use, property, occupational or like taxes which may be imposed by any taxing authority upon the manufacture, sale or delivery of the items sold hereunder. If any such taxes must be paid by Seller of if Seller is liable for the collection of such tax, the amount thereof shall be in addition to the amounts for the items sold. Buyer agrees to pay all such taxes or to reimburse Seller therefore upon receipt of its invoice. If Buyer claims exemption from any sales, use or other tax imposed by any taxing authority, Buyer shall save Seller harmless from and against any such tax, together with any interest or penalties thereon which may be assessed if the items are held to be taxable.
10. Indemnity For Infringement of Intellectual Property Rights: Seller shall have no liability for infringement of any patents, trademarks, copyrights, trade dress, trade secrets or similar rights except as provided in this Part 10. Seller will defend and indemnify Buyer against allegations of infringement of U.S. patents, U.S. trademarks, copyrights, trade dress and trade secrets (hereinafter "Intellectual Property Rights"). Seller will defend at its expense and will pay the cost of any settlement or damages awarded in an action brought against Buyer based on an allegation that an item sold pursuant to this contract infringes in the Intellectual Property Rights of a third party. Seller's obligation to defend and indemnify Buyer is contingent on Buyer notifying Seller within ten (10) days after Buyer becomes aware of such allegations of infringement, and Seller having sole control over the defense of any allegations or actions including all negotiations for settlement or compromise. If an item sold hereunder is subject to a claim that it infringes the Intellectual Property Rights of a third party, Seller may, at its sole expense and options, procure for Buyer the right to continue using said item, replace or modify said item so as to make it noninfringing, or offer to accept return of said item and return the purchase price less a reasonable allowance for depreciation. Notwithstanding the foregoing, Seller shall have no liability for claims of infringement based on information provided by Buyer, or directed to items delivered hereunder for which the designs are specified in whole or part by Buyer, or infringements resulting from the modification, combination or use in a system of any item sold hereunder. The foregoing provisions of this Part 10 shall constitute Seller's sole and exclusive liability and Buyer's sole and exclusive remedy for infringement of Intellectual Property Rights. If a claim is based on information provided by Buyer or if the design for an item delivered hereunder is specified in whole or in part by Buyer, Buyer shall defend and indemnify Seller for all costs, expenses or judgments resulting from any claim that such item infringes any patent, trademark, copyright, trade dress, trade secret or any similar right.
11. Force Majeure: Seller does not assume the risk of and shall not be liable for delay or failure to perform any of Seller's obligations by reason of circumstances beyond the reasonable control of Seller (hereinafter "Events of Force Majeure"). Events of Force Majeure shall include without limitation, accidents, acts of God, strikes or labor disputes, acts, laws, rules or regulations of any government or government agency, fires, floods, delays or failures in delivery of carriers or suppliers, shortages of materials and any other cause beyond Seller's control.
12. Entire Agreement/Governing Law: The terms and conditions set forth herein, together with any amendments, modifications and any different terms or conditions expressly accepted by Seller in writing, shall constitute the entire Agreement concerning the items sold, and there are no oral or other representations or agreements which pertain thereto. This Agreement shall be governed in all respects by the law of the State of Ohio. No actions arising out of the sale of the items sold hereunder or this Agreement may be brought by either party more than two (2) years after the cause of action accrues.

Certifications

DNV-GL

MANAGEMENT SYSTEM CERTIFICATE

Certificate No. P09711250-04-00-044	Initial certification date 04, October, 2018	Valid 04, October, 2019 - 10, September, 2020
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This is to certify that the management system of

Parker Hannifin India Pvt. Ltd.
Khasara No. 145, 146, 153/1, 153/3, 157, Mouza Bazargan, Amaravati Road, Nagpur - 440 023, Maharashtra, India

has been found to conform to the Environmental Management System standard:
ISO 14001:2004

This certificate is valid for the following scope:
Design & manufacture of braided, spiral reinforced and industrial hoses


Place and date:
Chennai, 03, October, 2018



IAF
INTERNATIONAL ASSOCIATION OF CERTIFICATION BODIES

The IAF is a signatory to the IAF MLA.

For the issuing office:
DNV-GL - Business Assurance
PCMA, No. 10, 5th Street, Madurai,
Chennai - 625 016, India



Shrikanth Madhusai
Management Representative

Link of full-text of conditions of use set in the certification agreement may locate the certificate holder.
Certificate No. P09711250-04-00-044 | ISO 14001:2004 | 2018-10-04 | 2019-09-10 | PCMA, No. 10, 5th Street, Madurai, Chennai - 625 016, India

DNV-GL

MANAGEMENT SYSTEM CERTIFICATE

Certificate No. 20680-1000-000-000	Initial certification date 04, October, 2018	Valid 04, October, 2019 - 10, October, 2020
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This is to certify that the management system of

Parker Hannifin India Pvt. Ltd.
Khasara No. 145, 146, 153/1, 153/3, 157, Mouza Bazargan, Amaravati Road, Nagpur - 440 023, Maharashtra, India

has been found to conform to the Occupational Health and Safety Management System standard:
OHSAS 18001:2007

This certificate is valid for the following scope:
Design & manufacture of braided, spiral reinforced and industrial hoses

Place and date:
Chennai, 03, October, 2018



DNV-GL
MANAGEMENT SYSTEM CERTIFICATION

For the issuing office:
DNV-GL - Business Assurance
PCMA, No. 10, 5th Street, Madurai,
Chennai - 625 016, India



Shrikanth Madhusai
Management Representative

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Certificate No. 20680-1000-000-000 | OHSAS 18001:2007 | 2018-10-04 | 2019-10-10 | PCMA, No. 10, 5th Street, Madurai, Chennai - 625 016, India

Certifications



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