



**HOSE &
FITTINGS
INC.**

**RIGFLOW™
OFFSHORE LOADING HOSE CATALOG**





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Introduction

Company History

Hose & Fittings, Inc. was founded in 1983, in Houston, TX. From the beginning, HFI has set out to provide products and services that exceeded the expectations of their customers. These products provide solutions for critical service applications around the world. Though our original customer base was limited to general industry and chemical transport companies, Hose & Fittings, Inc. has become a key supplier in many markets including but not limited to onshore & offshore drilling, marine seismic, subsea controls, surface controls, food service and more.

In addition to a wide variety of Fluid Conveyance products, Hose & Fittings, Inc. has become one of the premiere providers of offshore bulk loading hose assemblies in the world. By strategically aligning itself with major manufacturers like Parker Hannifin, HFI has been able to continually improve on what it has to offer its customers. This is especially true in the offshore drilling market where the RIGFLOW™ product line has been hugely successful.

Development of RIGFLOW™

In 1998, after many years of servicing the offshore drilling market and receiving feedback from our end users, Hose & Fittings, Inc. saw a need for an improved hose design. The harsh environment of offshore drilling was taking its toll on the standard run-of-the-mill products that were offered by most manufacturers at the time. HFI partnered with Parker Hannifin in creating a product line that was not only suitable, but was meant for use in the harsh offshore environment. Key factors taken into consideration during the design of the first RIGFLOW™ hoses included abrasion resistance and UV resistance. These external factors were major reasons hoses typically failed prematurely. By improving resistance to these external factors, HFI was able to lengthen the life of their hoses, and improve overall safety and reliability. In the years that followed, HFI listened to its customers as they voiced their

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concerns and needs for further improvements. Customers were asking for larger sizes, longer lengths, higher pressure ratings.....and Hose & Fittings, Inc. has delivered on them all. Today, HFI continues to make further developments to its RIGFLOW™ line, constantly going above and beyond its competition. As a customer in the offshore drilling industry, you can rely on Hose & Fittings, Inc. to be your premiere source for all of your hose needs.

Parker Circle of Safety

The Parker Circle of Safety program was the first to recognize and address the exorbitant costs of industrial hose litigation. Although organizations such as NAHAD, in cooperation with Parker and other industry leaders, have established basic hose assembly design and fabrication training programs, there are few comprehensive industrial hose assembly safety standards similar to those established for high-pressure hydraulic hose applications. Since many suppliers in this industry manufacture only one hose assembly component – hose, couplings, or attachment devices – there is great risk for a hose assembly failure due to mismatched or unqualified components. The innovative Parker Circle of Safety program was the first to build a tested and validated link between the component supplier, the distributor/fabricator and the end user of the overall assembly. No more mixing and matching of components means no more worries. Parker is the preferred single source for safe and reliable hose assembly solutions in a wide range of applications and markets.

When hose assemblies must operate under high pressures or in critical applications, crimping is recommended over bands or clamps to attach couplings. The Circle of Safety program enables selection of the most appropriate hose, crimp couplings and fabrication methods to ensure that a hose assembly meets the maximum rated working pressure and design factor of the hose. After testing, qualified crimp specifications are entered onto CrimpSource™, a real-time online database accessible through www.safehose.com. As new hoses are added to the product offering and tested and qualified, CrimpSource is updated with the appropriate hose assembly specifications.

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RIGFLOW Fuel Suction Hose - 8009



Series 8009 RIGFLOW Fuel Suction and Discharge Hose is designed specifically for high pressure bulk loading/unloading, delivery and transport of liquid mud, base/lubricating oil and petroleum in oil rig service as well as mining applications.

- Tube:** Black nitrile ARPM Class A oil resistant tube; will handle up to 60% aromatics
- Reinforcement:** Multiple textile plies with wire helix
- Cover:** Black chloroprene; abrasion, oil, ozone & UV resistant. Wear indicator available upon request.
- Media:** Gasoline, oil, ethanol, diesel, biodiesel (B20 to B100 in dedicated service), liquid mud
- Vacuum:** Full
- Temp Range:** -40°F to +200°F
- Lengths:** To 200-ft continuous
- Brand Method:** Black lettering with red background
- Brand Text:** HOSE & FITTINGS, INC. RIGFLOW FUEL SUCTION & DISCHARGE 300 PSI (PARKER LOGO) MADE IN USA
- Design Factor:** 4:1

Part Number	ID (in.)	OD (in.)	Plies	lbs/100 ft.	Min Bend Radius (in.)	Max Rec WP (psi)
8009-2000	2	2.51	2	130	10	300
8009-3000	3	3.59	2	213	15	300
8009-4000	4	4.72	2	380	20	300
8009-6000	6	6.98	4	743	30	300



⚠ WARNING
Failure or improper selection or improper use of hose, tubing, fittings, assemblies or related accessories ("Products") can cause death, personal injury and/or property damage. Refer to the Parker Safety Guide 4400-B.1 at www.Safehose.com/safety.html.



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Series 8009-EAA RIGFLOW Heavy Duty Fuel Suction and Discharge Hose is designed specifically for high pressure bulk loading/unloading, delivery and transport of liquid mud, base/lubricating oil and petroleum in oil rig service and mining applications.

- Tube:** Black nitrile (ARPM Class A oil resistant); handles to 60% aromatics
- Reinforcement:** Multiple textile plies with wire helix
- Cover:** Black chloroprene; abrasion, oil, ozone & UV resistant. Wear indicator available upon request.
- Media:** Gasoline, oil, ethanol, diesel, biodiesel (to B20; B100 in dedicated service); liquid mud
- Vacuum:** Full
- Temp Range:** -40°F to +200°F
- Lengths:** To 200-ft continuous
- Brand Method:** Black text on red stripe
- Brand Text:** HOSE & FITTINGS, INC. RIGFLOW FUEL SUCTION & DISCHARGE 500 PSI (PARKER LOGO) MADE IN USA
- Design Factor:** 4:1

Part Number	ID (in.)	OD (in.)	Plies	lbs/100 ft.	Min Bend Radius (in.)	Max Rec WP (psi)
80093000-EAA	3	3.94	4	324	18	500
80094000-EAA	4	5.00	4	464	24	500
80096000-EAA	6	7.11	4	802	36	500



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Series 8048 RIGFLOW Water Suction and Discharge Hose is designed to handle applications in agriculture, construction and general industry. The tough, flexible EPDM rubber construction resists abrasion, weathering and the effects of herbicides and other chemicals.

- Tube:** Black EPDM
- Reinforcement:** Multiple textile plies with wire helix
- Cover:** Black EPDM. Wear indicator available upon request.
- Media:** Water and mild chemicals, agricultural herbicides
- Vacuum:** Full
- Temp Range:** -40°F to +212°F
- Lengths:** To 200-ft continuous
- Brand Method:** Black text on blue stripe
- Brand Text:** HOSE & FITTINGS, INC. RIGFLOW WATER SUCTION & DISCHARGE 200 PSI (PARKER LOGO) MADE IN USA
- Design Factor:** 4:1

Part Number	ID (in.)	OD (in.)	Plies	lbs/100 ft.	Min Bend Radius (in.)	Max Rec WP (psi)
8048-3000	3	3.53	2	201	18	200
8048-4000	4	4.61	2	288	24	200



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RIGFLOW Water Suction & Discharge Hose - 8048



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Series 8054 RIGFLOW Heavy Duty Sea Water Hose is designed to handle a wide range of applications in general industry, construction, agriculture and sea water applications. The tough, flexible EPDM rubber construction resists abrasion, weathering, UV and agricultural herbicides and other mild chemicals. The hose incorporates a steel wire helix for full suction capabilities, and multiple high tensile textile plies for discharge pressure.

- Tube:** Black EPDM
- Reinforcement:** Multiple textile plies with wire helix
- Cover:** Black EPDM. Wear indicator available upon request.
- Media:** Salt water, water, mild chemicals, agricultural herbicides
- Vacuum:** Full
- Temp Range:** -30°F to +212°F
- Lengths:** To 200-ft continuous
- Brand Method:** Black text on blue stripe
- Brand Text:** HOSE & FITTINGS, INC. RIGFLOW 8054 SEA WATER
HOSE 400 PSI WP (PARKER LOGO) MADE IN USA
- Design Factor:** 4:1

Part Number	ID (in.)	OD (in.)	Plies	lbs/100 ft.	Min Bend Radius (in.)	Max Rec WP (psi)
8054-6000	6	7.11	6	680	42	400



⚠ WARNING
Failure or improper selection or improper use of hose, tubing, fittings, assemblies or related accessories ("Products") can cause death, personal injury and/or property damage. Refer to the Parker Safety Guide 4400-B.1 at www.Safehose.com/safety.html.

RIGFLOW Heavy Duty Sea Water Hose - 8054



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Series 8089 RIGFLOW Dry Material Suction Hose is designed to transfer dry abrasive materials. The tube is 3/16" thick for maximum abrasion resistance.

- Tube:** Black natural rubber/SBR
- Reinforcement:** Multiple textile plies with wire helix
- Cover:** Black natural rubber/SBR. Wear indicator available upon request.
- Media:** Abrasives and slurries
- Vacuum:** Full
- Temp Range:** -30°F to +160°F
- Lengths:** To 200-ft continuous
- Brand Method:** Black text on white stripe
- Brand Text:** HOSE & FITTINGS, INC. RIGFLOW 8089 DRY MATERIAL 200 PSI WP (PARKER LOGO) MADE IN USA
- Design Factor:** 4:1

Part Number	ID (in.)	OD (in.)	Plies	lbs/100 ft.	Min Bend Radius (in.)	Max Rec WP (psi)
8089-4000	4	5.01	2	401	20	200
8089-5000	5	6.01	2	493	25	200



⚠ WARNING
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RIGFLOW Dry Material Suction Hose - 8089



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Series 8100 RIGFLOW Heavy Duty Discharge Hose is designed for high pressure discharge applications for a wide range of fuel, oil and refined petroleum products such as biodiesel (to B20; B100 in dedicated service), diesel, ethanol and gasoline.

- Tube:** Black nitrile (ARPM Class A oil resistant); handles to 60% aromatics
- Reinforcement:** Multiple textile plies with static wire
- Cover:** Black chloroprene; abrasion, oil & UV resistant. Wear indicator available upon request.
- Media:** Gasoline, oil, ethanol, diesel, biodiesel (to B20; B100 in dedicated service), liquid mud
- Vacuum:** N/A
- Temp Range:** -40°F to +200°F
- Lengths:** To 200-ft continuous
- Brand Method:** Black text on red stripe
- Brand Text:** HOSE & FITTINGS, INC. RIGFLOW H.D. FUEL/ PETROLEUM (PARKER LOGO) MADE IN USA
- Design Factor:** 3.2:1

Part Number	ID (in.)	OD (in.)	Plies	lbs/ 100 ft.	Max Rec WP (psi)
8100-3000	3	3.85	4	262	500



⚠ WARNING
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Series 8101 RIGFLOW Heavy Duty Discharge Hose is designed for high pressure discharge applications for oil field, construction and general industrial applications. The abrasion resistant tube also handles a wide variety of refined fuels such as biodiesel, diesel, ethanol and gasoline. The hose incorporates a static wire as a path to conduct an electrical charge to the ground.

- Tube:** Black nitrile (ARPM Class A oil resistant tube); handles to 60% aromatics
- Reinforcement:** Multiple textile plies with static wire
- Cover:** Black chloroprene; abrasion, oil & UV resistant. Wear indicator available upon request.
- Media:** Gasoline, oil, ethanol, diesel, biodiesel (to B20; B100 in dedicated service), liquid mud
- Vacuum:** N/A
- Temp Range:** -40°F to +200°F
- Lengths:** To 200-ft continuous
- Brand Method:** Black text on brown stripe
- Brand Text:** HOSE & FITTINGS, INC. RIGFLOW H.D. MUD/FUEL/ (PARKER LOGO) MADE IN USA
- Design Factor:** 3.2:1

Part Number	ID (in.)	OD (in.)	Plies	lbs/ 100 ft.	Max Rec WP (psi)
8101-3000	3	3.73	4	219	500
8101-4000	4	4.93	4	358	500
8101-6000	6	7.09	6	603	500



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RIGFLOW Drill Water Hose - 8102



Series 8102 RIGFLOW Drill Water Hose is designed to handle applications in agriculture, construction and general industry. The tough, flexible EPDM rubber construction resists abrasion, weathering and the effects of herbicides and other mild chemicals.

- Tube:** Black EPDM
- Reinforcement:** Multiple textile plies
- Cover:** Black EPDM. Wear indicator available upon request.
- Media:** Water and mild chemicals, agricultural herbicides
- Vacuum:** N/A
- Temp Range:** -40°F to +212°F
- Lengths:** To 200-ft continuous
- Brand Method:** Black text on green stripe
- Brand Text:** HOSE & FITTINGS, INC. RIGFLOW H.D. DRILL WATER (PARKER LOGO) MADE IN USA
- Design Factor:** 4:1

Part Number	ID (in.)	OD (in.)	Plies	lbs/100 ft.	Max Rec WP (psi)
8102-3000	3	3.32	2	92	150
8102-4000	4	4.39	2	131	150



⚠ WARNING
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Series 8106 RIGFLOW Dry Material Discharge Hose is designed for high pressure transfer of barite, dry cement and other dry abrasive materials in oil rig and general industrial service. The cover is abrasion, ozone and UV resistant.

- Tube:** 1/8" Black natural rubber/SBR blend
- Reinforcement:** Multiple textile plies
- Cover:** Black natural rubber/SBR blend. Wear indicator available upon request.
- Media:** Dry abrasives and slurries
- Vacuum:** N/A
- Temp Range:** -30°F to +160°F
- Lengths:** To 200-ft continuous
- Brand Method:** Black text on orange stripe
- Brand Text:** HOSE & FITTINGS, INC. RIGFLOW DRY MATERIAL
150 PSI WP (PARKER LOGO) MADE IN USA
- Design Factor:** 4:1

Part Number	ID (in.)	OD (in.)	Plies	lbs/100 ft.	Max Rec WP (psi)
8106-4018	4	4.60	2	191	150
8106-5018	5	5.58	2	228	150



⚠ WARNING
Failure or improper selection or improper use of hose, tubing, fittings, assemblies or related accessories ("Products") can cause death, personal injury and/or property damage. Refer to the Parker Safety Guide 4400-B.1 at www.Safehose.com/safety.html.

RIGFLOW Dry Material Discharge Hose - 8106



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Series 8108 RIGFLOW Dry Material Suction and Discharge Hose is designed for high pressure transfer of barite, dry cement and other dry abrasive materials in oil rig and general industrial service. The cover is abrasion, ozone and UV resistant.

- Tube:** 1/8" Black natural rubber/SBR blend
- Reinforcement:** Multiple textile plies with wire helix
- Cover:** Black natural rubber/SBR. Wear indicator available upon request.
- Media:** Dry abrasives and slurries
- Vacuum:** Full
- Temp Range:** -30°F to +160°F
- Lengths:** To 200-ft continuous
- Brand Method:** Black text on orange stripe
- Brand Text:** HOSE & FITTINGS, INC. RIGFLOW 8108 DRY MATERIAL 150 PSI WP (PARKER LOGO) MADE IN USA
- Design Factor:** 4:1

Part Number	ID (in.)	OD (in.)	Plies	lbs/100 ft.	Min Bend Radius (in.)	Max Rec WP (psi)
8108-5018	5	5.84	2	446	20	150



⚠ WARNING
Failure or improper selection or improper use of hose, tubing, fittings, assemblies or related accessories ("Products") can cause death, personal injury and/or property damage. Refer to the Parker Safety Guide 4400-B.1 at www.Safehose.com/safety.html.



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 **RIGFLOW™** hose. All aspects of hose selection criteria should be clearly understood before recommending, suggesting, specifying or using any hoses.

Hose Selection Procedure

- A. If you know the **RIGFLOW™** series number, find the page number in the table of contents located at the front of this catalog.
- B. If you don't know the **RIGFLOW™** series number, see the "Hose Selector Guide" on the next page, which is divided into various application categories.
- C. If you don't know the **RIGFLOW™** 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.

APPLICATION: 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

ENDS: 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/non-conductivity, suction/vacuum; industry or regulatory specifications or standards

- D. If you can't determine the appropriate or suitable hose, have special requirements, or would like some assistance, call Hose & Fittings, Inc. at (713) 676-0282 or email us at sales@hosefittingsinc.com.

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RIGFLOW™ Hose Selector Guide

Series	Trademark	Hose Application/Construction Selector Guide		Tube	Cover	Size Range (in)	Pressure Range (psi)	Temp Range (°F)	Page No.
8009	RIGFLOW	Gasoline, Oil, Ethanol, Diesel, Biodiesel, Liquid Mud, Fuel	Textile Plies, Wire Helix (Suction & Discharge)	Nitrile	Chloroprene	2 - 6	300	-40 / +200	3
8009-EAA	RIGFLOW	Gasoline, Oil, Ethanol, Diesel, Biodiesel, Liquid Mud, Fuel	Textile Plies, Wire Helix (Suction & Discharge)	Nitrile	Chloroprene	3 - 6	500	-40 / +200	4
8048	RIGFLOW	Water, Mild Chemicals	Textile Plies, Wire Helix (Suction & Discharge)	EPDM	EPDM	3 - 4	200	-40 / +212	5
8054	RIGFLOW	Salt Water, Water, Mild Chemicals	Textile Plies, Wire Helix (Suction & Discharge)	EPDM	EPDM	6	400	-30 / +212	6
8089	RIGFLOW	Dry Abrasives, Dry Cements, Powders, Slurries	Textile Plies, Wire Helix (Suction & Discharge)	NR/SBR	NR/SBR	4 - 5	200	-30 / +160	7
8100	RIGFLOW	Gasoline, Oil, Ethanol, Diesel, Biodiesel, Liquid Mud, Fuel	Textile Plies (Discharge)	Nitrile	Chloroprene	3	500	-40 / +200	8
8101	RIGFLOW	Gasoline, Oil, Ethanol, Diesel, Biodiesel, Liquid Mud, Fuel	Textile Plies (Discharge)	Nitrile	Chloroprene	3 - 6	500	-40 / +200	9
8102	RIGFLOW	Water, Mild Chemicals	Textile Plies (Discharge)	EPDM	EPDM	3 - 4	150	-40 / +212	10
8106	RIGFLOW	Dry Abrasives, Dry Cements, Powders, Slurries	Textile Plies (Discharge)	NR/SBR	NR/SBR	4 - 5	150	-30 / +160	11
8108	RIGFLOW	Dry Abrasives, Dry Cements, Powders, Slurries	Textile Plies, Wire Helix (Suction & Discharge)	NR/SBR	NR/SBR	5	150	-30 / +160	12

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RIGFLOW™ Cross Reference Guide

RIGFLOW™ Series	Size Range (in)	Pressure Range (psi)	Tube	Applications	Cross Reference	
					Copperstate Rubber	Midwest Hose
Hardwall Hoses						
8009	2-6	300	Nitrile	Gasoline, Oil, Ethanol, Diesel, Biodiesel, Liquid Mud, Fuel	070-1175 070-1951	MWHTT250
8009-EAA	3-6	500	Nitrile	Gasoline, Oil, Ethanol, Diesel, Biodiesel, Liquid Mud, Fuel	070-3175	N/A
8048	3-4	200	EPDM	Water, Mild Chemicals	070-1127	MWHBRS150 MWHOVC
8054	6	400	EPDM	Salt Water, Water, Mild Chemicals	N/A	N/A
8089	4-5	200	NR/SBR	Dry Abrasives, Dry Cements, Powders, Slurries	070-1127-B	MWHTT150
8108	5	150	NR/SBR	Dry Abrasives, Dry Cements, Powders, Slurries	070-1127-B	MWHTT150
Softwall Hoses						
8100	3	500	Nitrile	Gasoline, Oil, Ethanol, Diesel, Biodiesel, Liquid Mud, Fuel	070-1205 070-1296	FRACARC LIQUIDMUD
8101	3-6	500	Nitrile	Gasoline, Oil, Ethanol, Diesel, Biodiesel, Liquid Mud, Fuel	070-1205 070-1296	FRACARC LIQUIDMUD
8102	3-4	150-200	EPDM	Water, Mild Chemicals	070-1101	N/A
8106	4-5	150-200	NR/SBR	Dry Abrasives, Dry Cements, Powders, Slurries	070-1101	MWHMATHD MWHFRAC/BLENDER

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