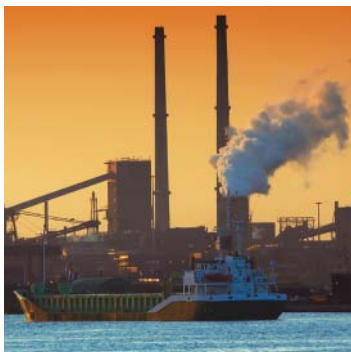




aerospace
climate control
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filtration
fluid & gas handling
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pneumatics
process control
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Parker Industrial Hose

Welding Products



ENGINEERING YOUR SUCCESS.

WARNING

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application, including consequences of any failure, and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

Offer of Sale

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

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Only from Parker:

Welding Hose Products Designed, Manufactured and Tested for Safety

A safe workplace begins with quality equipment - and when it comes to welding equipment, that means choosing hose products that meet or exceed industry safety standards. Parker welding hose and fitted hose assemblies meet or exceed all industry requirements as well as rigorous internal standards. Designed, manufactured and tested in America, the Parker product offering provides robust performance and outstanding marketing, sales and technical support.

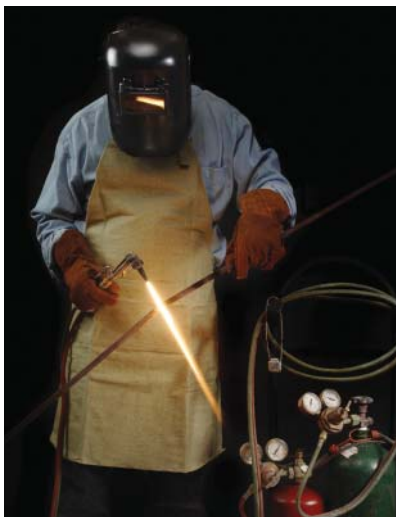
In-House Capabilities Provide Maximum Quality Control

From design to production, Parker's many decades of hose engineering and manufacturing expertise ensure welding hose products that meet needs and exceed expectations.

All manufacturing processes occur in Parker facilities:

- *specifying performance criteria*
- *creating hose designs*
- *specifying rubber formulations*
- *mixing rubber compounds*
- *determining appropriate brass fittings and componentry*
- *manufacturing components*
- *fitted hose assembly fabrication*

Parker then rigorously tests the products to ensure they meet performance requirements and industry standards before leaving the factory.



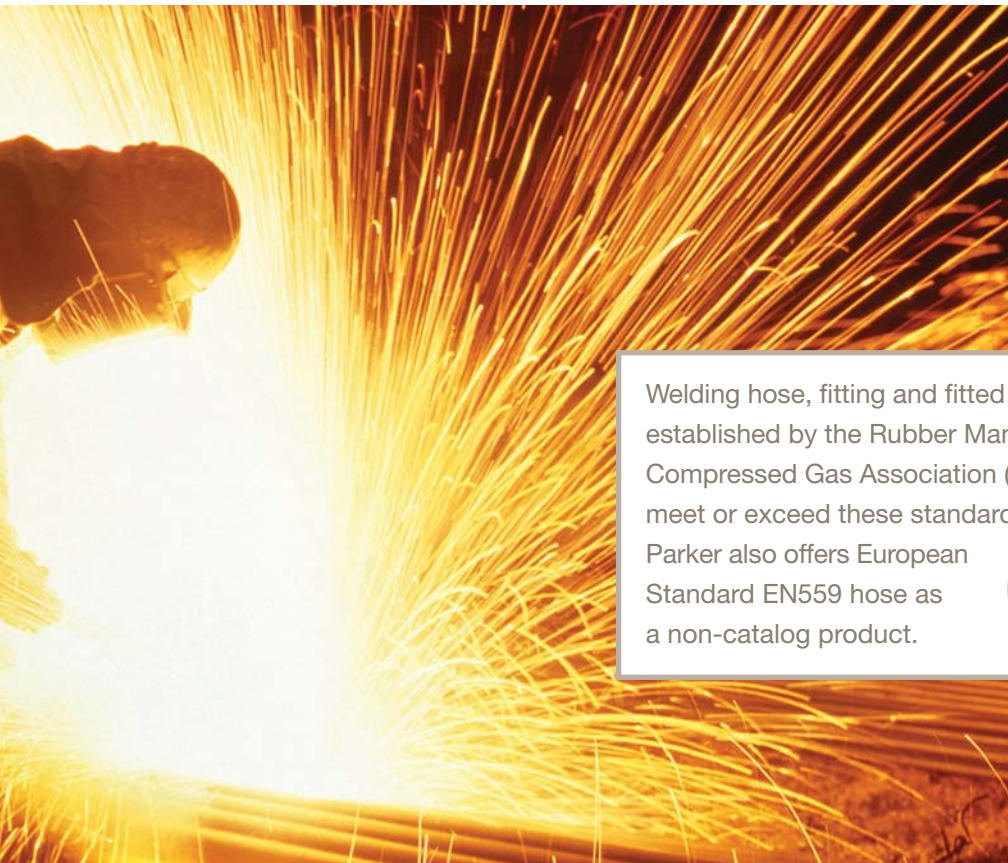


Available When and Where Needed

Parker inventories an extensive array of popular grades, sizes and lengths, supplemented by impressive customization capabilities, such as special branding, fittings, lengths and packaging. Quick reaction times are standard for unanticipated sales opportunities and unexpected stock-outs.

Quality, Service and Safety – the Parker Promise

Some welding hoses feature a soft, tacky cover, the result of materials or production methods that minimize manufacturing costs at the expense of quality. Some welding hose manufacturers close the door when the sale is completed, offering minimal post-delivery support. But Parker provides quality, service and safety – a value-added package that no other welding hose supplier can match. Throughout the industry, experienced welders trust Parker to provide welding hoses and fitted hose assemblies that can do the job – safely and effectively. Parker continues to honor that trust.



Welding hose, fitting and fitted hose assembly standards are established by the Rubber Manufacturers Association (RMA) and Compressed Gas Association (CGA). All Parker welding hoses meet or exceed these standards. Parker also offers European Standard EN559 hose as a non-catalog product.



Welding Hose Applications

The **oxygen-fuel gas welding** process, which produces flame at the tip of a welding torch, is one of the most widely used welding processes. It remains popular because it is portable, versatile and relatively inexpensive. Common fuel gases include acetylene, hydrogen, natural gas, propane and propylene. The fuel gas provides the volatility and the oxygen enhances the temperature of the flame. These gases are transferred by specially designed hoses from a source – usually a tank or a manifold – to a welding torch or other apparatus. Regulators safely control pressure of the gases through the hose to the torch, where the gases are combined in specific proportions inside a mixing chamber.

Oxygen-fuel gas welding is widely used for maintenance and repair applications such as bending, brazing, cutting, fabricating, gouging, joining, piercing, pre-heating, post-heating, severing, soldering, straightening, surfacing and trimming. Typical industries include construction, plant maintenance, foundries, manufacturing, maritime, mining, salvage/scrap and steel mills. Welding hose is also incorporated in consumer/retail welding kits.

Arc welding is a process that does not require oxygen or fuel gas. This process produces heat via electricity, which “arcs” (jumps) from the electrode in the torch to the weld piece. Arc welding frequently incorporates a shield gas (an inert/noble gas, such as argon) to “shield” the weld pool from airborne contaminants. Some arc welding equipment – such as automatic or mechanized applications – employs water-cooled torches. Consequently, many arc-welding systems require hoses to convey the shield gases and/or water.

Combination welding/cutting equipment frequently provides oxygen-fuel gas capabilities combined with a plasma welding apparatus, where high electrical output creates an extreme amount of concentrated ozone. This application frequently requires abundant ventilation and Grade T single line welding hose to convey the premium fuel gas and resist the extreme amounts of ozone (see Series 7141 / Series 7142 Grade T welding hose).

Parker has a complete industrial hose offering for welding and complementary applications.



Welding Hose Standards

Hoses used for welding service must meet industry standards that require special designs, materials and testing to safely convey combustible gases. The most commonly recognized welding hose standard in North America is jointly prepared by the Rubber Manufacturers Association (RMA) and the Compressed Gas Association (CGA). The standard is named RMA IP-7, and was written for hose used with oxygen-fuel gas equipment for cutting, welding or other allied processes. The IP-7 standard categorizes welding hoses into three grades and four types:

Grades of Welding Hose	
Grade T	For commonly used fuel gases, including acetylene
Grade RM	For acetylene fuel gas ONLY
Grade R	For acetylene fuel gas ONLY

Types of Welding Hose (most hose in use is standard duty)	
Type L	For light duty service
Type S	For standard duty service
Type H	For heavy-duty service
Type VD	Vulcanized Double (twin line) service

Parker Hose Series	Hose Grade	Fuel Gas	Oil Resistance		Flame Resistance	
			Tube	Cover	Tube	Cover
7109, 7141, 7142	T	Commonly used*	Yes	Yes	Yes	Yes
7110	RM	Acetylene ONLY	No	Yes	No	Yes
7120, 7121, 7126	R	Acetylene ONLY	No	No	No	No

* Including: acetylene, hydrogen, natural gas, propane and propylene

Fuel Gas

Use of any fuel gas other than acetylene requires the use of Grade T hose. Due to safety concerns, CGA publications E-1 and SB-11 recommend the exclusive use of Grade T welding hose for all oxygen-fuel gas welding applications.

Note: CGA recommends the exclusive use of Grade T welding hose

Oil Resistance

When exposed to an oily environment, the cover of Grade R hose may become soft and tacky, leading to separation of the hose cover from the reinforcement, or excessive wear of the cover. Both of these conditions may lead to premature hose failure and/or decreased service life.

- Grade T hose provides resistance to oil, both outer cover and internal tube
- Grade RM hose provides resistance to oil, outer cover only
- Grade R hose does not provide resistance to oil

Flame Resistance

Flame-resistant welding hose will not be consumed and will self-extinguish within a specified period of time. Flame resistance provides significant safety advantages when subjected to adverse conditions such as flashbacks, hot slag or inadvertent exposure to flame.

- Grade T hose provides resistance to flame, both outer cover and internal tube
- Grade RM hose provides resistance to flame, outer cover only
- Grade R hose does not provide resistance to flame

Compressed Gas Association – CGA (www.cganet.com)

- E-1 Standard Connections for Regulator Outlets, Torches and Fitted Hoses for Welding and Cutting Equipment
- SB-11 Use of Rubber Welding Hose

Rubber Manufacturers Association – RMA (www.rma.org)

- IP-7 Standard for Rubber Welding Hose
- IP-11-5 Guide for Use, Maintenance and Inspection of Welding Hose

Fitted Hose Assemblies

Parker fitted hose assemblies meet the requirements of CGA publication E-1, "Welding and Cutting Equipment, Standard Connections for Regulator Outlets, Torches and Fitted Hose."

Grade T Siameez® Twin Line Welding Hose

Series 7109



Series 7109 is a premium twin line welding hose featuring both a flame-resistant and oil-resistant tube and cover. This hose is compatible with most commonly used fuel gases, including acetylene, hydrogen, natural gas, propane and propylene. The non-blooming tube minimizes the migration of combustible waxes or plasticizers to the surface of the rubber.

Parker-fabricated hose assemblies incorporate non-sparking brass fittings attached with external ferrules one inch in length, ensuring full coverage and support of the fitting inserted into the hose. The longitudinal crimp provides full and secure contact with the hose along the entire circumference and length of the ferrule. The brass left-hand thread nuts on the red fuel gas hose feature red plating to further differentiate the oxygen hose line from the fuel gas hose line.

Tube:	Black flame & oil-resistant neoprene
Reinforcement:	Multiple textile spirals
Cover:	Green (oxygen) and red (fuel gas) flame & oil-resistant smooth neoprene
Temp Range:	-40°F to +200°F (-40°C to +93°C)
Brand Method:	White ink
Brand Example:	PARKER 7109 WELDING ⚠ WARNING FUEL GAS 1/4 ID MAX WP 200 PSI RMA/CGA IP-7-(YEAR) STD DUTY GRADE T COUPLE WITH 1 INCH FERRULES MADE IN USA (DATE CODE)
Design Factor:	4:1
Industry Standards:	RMA/CGA IP-7
Applications:	<ul style="list-style-type: none"> • Maintenance and repair applications such as bending, brazing, cutting, fabricating, gouging, joining, piercing, pre-heating, post-heating, severing, soldering, straightening, surfacing and trimming • Construction, factories, foundries, manufacturing, maritime, mining, salvage/scrap and steel mills
Compare To:	Goodyear Gemini Grade T, Thermoid Tuline Grade T

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs)/100 ft	Min Bend Rad (in)	Max Rec WP (psi)	Std Pack Qty (ft)
7109-191	3/16	4.8	2	0.438	11.1	15	2.0	200	800
7109-251	1/4	6.4	2	0.531	13.5	21	2.5	200	800
7109-311	5/16	7.9	2	0.594	15.1	28	3.0	200	750
7109-381	3/8	9.5	2	0.656	16.7	32	4.0	200	700

Packaging:	Reels
Fitting Recommendation:	As specified in CGA publication E-1

Fitted Hose Assemblies

Part Number	ID (in)	ID (mm)	Length (ft)	Std Pkg	Std Pkg Qty	Approx Wt (lbs)/Carton	Nut Sizes
7109KABC-150*	3/16	4.8	12.5	Carton	10	2	A&B
7109KABC-300*	3/16	4.8	25	Carton	10	4	A&B
7109NLC-150	3/16	4.8	12.5	Carton	10	2	B&B
7109NLC-300*	3/16	4.8	25	Carton	10	4	B&B
7109NLC-600*	3/16	4.8	50	Carton	5	7	B&B
7109NLC-1200*	3/16	4.8	100	Carton	5	14	B&B
7109NLF-150*	1/4	6.4	12.5	Carton	10	3	B&B
7109NLF-300	1/4	6.4	25	Carton	10	6	B&B
7109NLF-600	1/4	6.4	50	Carton	5	11	B&B
7109NLF-900*	1/4	6.4	75	Carton	5	16	B&B
7109NLF-1200	1/4	6.4	100	Carton	5	21	B&B
7109NLA-300*	5/16	7.9	25	Carton	10	7	B&B
7109NLA-600*	5/16	7.9	50	Carton	5	14	B&B
7109NLA-1200*	5/16	7.9	100	Carton	5	29	B&B
7109NLM-300	3/8	9.5	25	Carton	10	8	B&B
7109NLM-600	3/8	9.5	50	Carton	5	16	B&B
7109NLM-1200	3/8	9.5	100	Carton	5	32	B&B

* Non-stock. Contact Parker for availability.

Packaging:	Shrink-wrapped & labeled in master cartons
Fitting Recommendation:	As specified in CGA publication E-1

Grade T Single Line Welding Hose

Series 7141 Red Fuel Gas, Series 7142 Green Oxygen



Tube: Black flame & oil-resistant neoprene
Reinforcement: Multiple textile spirals
Cover: Green (oxygen) and red (fuel gas) flame, oil & ozone-resistant ribbed neoprene
Temp Range: -40°F to +200°F (-40°C to +93°C)
Brand Method: Series 7141 - white ink; Series 7142 - black ink
Brand Example: PARKER 7141 WELDING Δ WARNING FUEL GAS 1/4 ID MAX WP 200 PSI RMA/CGA IP-7-(YEAR) STD DUTY GRADE T COUPLE WITH 1 INCH FERRULES MADE IN USA (DATE CODE)

Design Factor: 4:1
Industry Standards: RMA/CGA IP-7

Applications:

- Maintenance and repair applications such as bending, brazing, cutting, fabricating, gouging, joining, piercing, pre-heating, post-heating, severing, soldering, straightening, surfacing and trimming
- Combination plasma/oxyfuel welding & cutting equipment
- Construction, factories, foundries, manufacturing, maritime, mining, salvage/scrap and steel mills

Compare To: Goodyear Wingfoot Grade T, Thermoid Single Line Grade T

Series 7141 and Series 7142 are premium single line welding hoses featuring both a flame-resistant and oil-resistant tube and cover. This hose is compatible with most commonly used fuel gases, including acetylene, hydrogen, natural gas, propane and propylene. The non-blooming tube minimizes the migration of combustible waxes or plasticizers to the surface of the rubber.

These hose covers are twice as ozone-resistant than required by RMA IP-7. This is important for combination plasma/oxy-fuel welding and cutting equipment applications, which frequently require Grade T fuel gas hose. This application generates intense amounts of ozone, which may quickly deteriorate the covers of some Grade T hose, causing premature hose failure.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs)/100 ft	Min Bend Rad (in)	Max Rec WP (psi)	Std Pack Qty (ft)
7141-19200	3/16	4.8	2	0.438	11.1	8	2.0	200	800
7141-25200	1/4	6.4	2	0.531	13.5	10	2.5	200	800
7141-31200*	5/16	7.9	2	0.594	15.1	14	3.0	200	700
7141-38200	3/8	9.5	2	0.656	16.7	16	4.0	200	700
7141-50200	7/2	12.7	4	0.875	22.2	28	5.0	200	500
7142-19200*	3/16	4.8	2	0.438	11.1	8	2.0	200	800
7142-25200	7/4	6.4	2	0.531	13.5	10	2.5	200	800
7142-31200*	5/16	7.9	2	0.594	15.1	14	3.0	200	700
7142-38200	3/8	9.5	2	0.656	16.7	16	4.0	200	700
7142-50200	1/2	12.7	4	0.875	22.2	28	5.0	200	500

* Non-stock. Contact Parker for availability.

Packaging: Reels
Fitting Recommendation: As specified in CGA publication E-1

Grade T Performance Heavy Duty Single Line Welding Hose

Series 7228T Red Fuel Gas, Series 7229T Green Oxygen



Series 7228T and Series 7229T are premium single line welding hoses featuring both a flame-resistant and oil-resistant tube and cover. This hose is compatible with most commonly used fuel gases, including acetylene, hydrogen, natural gas, propane and propylene. The non-blooming tube minimizes the migration of combustible waxes or plasticizers to the surface of the rubber.

These hoses are designed for heavy-duty welding service. The textile braids provide additional kink-resistance and superior fitting retention. The thicker covers resist punishment from heat, sharp edges and rough treatment typically encountered in industrial plants, mine sites and steel mills.

Tube:	Black flame & oil-resistant neoprene
Reinforcement:	Multiple textile braids
Cover:	Green (oxygen) and red (fuel gas) flame & oil-resistant smooth neoprene
Temp Range:	-40°F to +200°F (-40°C to +93°C)
Brand Method:	Series 7228T - white ink; Series 7229T - black ink
Brand Example:	PARKER USA 7228T WELDING Δ WARNING FUEL GAS – SCARFING HOSE 1/2 ID 250 PSI MAX WP (MFG CODE) (DATE CODE)
Design Factor:	4:1
Industry Standards:	RMA IP-7 (Similar to)
Applications:	<ul style="list-style-type: none"> • Maintenance and repair applications such as bending, brazing, cutting, fabricating, gouging, joining, piercing, pre-heating, post-heating, severing, soldering, straightening, surfacing and trimming • Construction, factories, foundries, manufacturing, maritime, mining, salvage/scrap and steel mills
Compare To:	Thermoid Green GP Oxygen

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs)/100 ft	Min Bend Rad (in)	Max Rec WP (psi)	Std Pack Qty (ft)
7228T-382	3/8	9.5	2	0.812	20.6	27	4.5	250	500
7228T-502	1/2	12.7	2	0.937	23.8	33	6.0	250	500
7229T-382	3/8	9.5	2	0.812	20.6	27	4.5	250	500
7229T-502	1/2	12.7	2	0.937	23.8	33	6.0	250	500

Packaging:	Reels
Fitting Recommendation:	As specified in CGA publication E-1

Grade RM Siameez® Twin Line Welding Hose

Series 7110



Series 7110 is a twin line welding hose for use with **ACETYLENE FUEL GAS ONLY**. The non-blooming tube minimizes the migration of combustible waxes or plasticizers to the surface of the rubber. The tube is neither flame- nor oil-resistant. However, the cover is flame- and oil-resistant.

Parker-fabricated hose assemblies incorporate non-sparking brass fittings attached with external ferrules one inch in length, ensuring full coverage and support of the fitting inserted into the hose. The longitudinal crimp provides full and secure contact with the hose along the entire circumference and length of the ferrule. The brass left-hand thread nuts on the red fuel gas hose feature red plating to further differentiate the oxygen hose line from the fuel gas hose line.

Tube: Black synthetic rubber
Reinforcement: Multiple textile spirals
Cover: Green (oxygen) and red (acetylene fuel gas) smooth neoprene
Temp Range: -40°F to +200°F (-40°C to +93°C)
Brand Method: White ink
Brand Example: PARKER 7110 WELDING ⚠ WARNING ACETYLENE ONLY 1/4 ID MAX WP 200 PSI RMA IP-7-(YEAR) STD DUTY GRADE R COUPLE WITH 1 INCH FERRULES MADE IN USA (DATE CODE)

Design Factor: 4:1
Industry Standards: RMA IP-7

Applications:

- Maintenance and repair applications such as bending, brazing, cutting, fabricating, gouging, joining, piercing, pre-heating, post-heating, severing, soldering, straightening, surfacing and trimming
- Construction, factories, foundries, manufacturing, maritime, mining, salvage/scrap and steel mills

Compare To: Goodyear Wingfoot RM

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs)/100 ft	Min Bend Rad (in)	Max Rec WP (psi)	Std Pack Qty (ft)
7110-191*	3/16	4.8	2	0.438	11.1	15	2.0	200	800
7110-251	1/4	6.4	2	0.531	13.5	20	2.5	200	800
7110-311*	5/16	7.9	2	0.594	15.1	25	3.0	200	750
7110-381*	3/8	9.5	2	0.656	16.7	31	4.0	200	700

* Non-stock. Contact Parker for availability.

Packaging: Reels
Fitting Recommendation: As specified in CGA publication E-1

Fitted Hose Assemblies

Part Number	ID (in)	ID (mm)	Length (ft)	Std Pkg	Std Pkg Qty	Approx Wt (lbs)/Carton	Nut Sizes
7110NLF-300	1/4	6.4	25	Carton	10	6	B&B
7110NLF-600	1/4	6.4	50	Carton	5	11	B&B
7110NLF-1200	1/4	6.4	100	Carton	5	21	B&B

Packaging: Shrink-wrapped & labeled in master cartons
Fitting Recommendation: As specified in CGA publication E-1

⚠ WARNING

Most twin line welding hose looks alike. Grade RM hose is for use with acetylene fuel gas only. Ensure that the hose selected is compatible with the fuel gas selected.

Grade R Siameez® Twin Line Welding Hose

Series 7126



Tube: Black EPDM
Reinforcement: Multiple textile spirals
Cover: Green (oxygen) and red (acetylene fuel gas) smooth EPDM
Temp Range: -40°F to +200°F (-40°C to +93°C)
Brand Method: White ink
Brand Example: PARKER 7126 WELDING Δ WARNING ACETYLENE ONLY 1/4 ID MAX WP 200 PSI RMA IP-7-(YEAR) STD DUTY GRADE R COUPLE WITH 1 INCH FERRULES MADE IN USA (DATE CODE)

Design Factor: 4:1
Industry Standards: RMA IP-7

Applications:

- Maintenance and repair applications such as bending, brazing, cutting, fabricating, gouging, joining, piercing, pre-heating, post-heating, severing, soldering, straightening, surfacing and trimming
- Construction, factories, foundries, manufacturing, maritime, mining, salvage/scrap and steel mills

Compare To: Goodyear Gemini Grade R, Thermoid Tuline Grade R

Series 7126 is a twin line welding hose for use with **ACETYLENE FUEL GAS ONLY**. The non-blooming tube minimizes the migration of combustible waxes or plasticizers to the surface of the rubber. However, the tube is neither flame- nor oil-resistant. The cover is neither flame- nor oil-resistant.

Parker-fabricated hose assemblies incorporate non-sparking brass fittings attached with external ferrules one inch in length, ensuring full coverage and support of the fitting inserted into the hose. The longitudinal crimp provides full and secure contact with the hose along the entire circumference and length of the ferrule. The brass left-hand thread nuts on the red fuel gas hose feature red plating to further differentiate the oxygen hose line from the fuel gas hose line.

⚠ WARNING

Most twin line welding hose looks alike. Grade R hose is for use with acetylene fuel gas only. Ensure that the hose selected is compatible with the fuel gas selected.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs)/100 ft	Min Bend Rad (in)	Max Rec WP (psi)	Std Pack Qty (ft)
7126-191	3/16	4.8	2	0.438	11.1	13	2.0	200	800
7126-251	1/4	6.4	2	0.531	13.5	20	2.5	200	800
7126-311	5/16	7.9	2	0.594	15.1	25	3.0	200	750
7126-381	3/8	9.5	2	0.656	16.7	28	4.0	200	700

Packaging: Reels
Fitting Recommendation: As specified in CGA publication E-1

Fitted Hose Assemblies

Part Number	ID (in)	ID (mm)	Length (ft)	Std Pkg	Std Pkg Qty	Approx Wt (lbs)/Carton	Nut Sizes
7126KAAC-150*	3/16	4.8	12.5	Carton	10	2	A&B
7126KAAC-300*	3/16	4.8	25	Carton	10	4	A&B
7126KABC-150*	3/16	4.8	12.5	Carton	10	2	A&B
7126KABC-300*	3/16	4.8	25	Carton	10	4	A&B
7126NLC-150	3/16	4.8	12.5	Carton	10	2	B&B
7126NLC-300	3/16	4.8	25	Carton	10	4	B&B
7126NLC-600	3/16	4.8	50	Carton	5	7	B&B
7126NLC-1200	3/16	4.8	100	Carton	5	14	B&B
7126NLF-150*	1/4	6.4	12.5	Carton	10	2	B&B
7126NLF-300	1/4	6.4	25	Carton	10	6	B&B
7126NLF-600	1/4	6.4	50	Carton	5	11	B&B
7126NLF-1200	1/4	6.4	100	Carton	5	20	B&B
7126NLM-300*	3/8	9.5	25	Carton	10	8	B&B
7126NLM-600	3/8	9.5	50	Carton	5	15	B&B
7126NLM-1200	3/8	9.5	100	Carton	5	28	B&B

* Non-stock. Contact Parker for availability.

Packaging: Shrink-wrapped & labeled in master cartons
Fitting Recommendation: As specified in CGA publication E-1

Grade R Single Line Welding Hose

Series 7120 Red Acetylene Fuel Gas, Series 7121 Green Oxygen



Series 7120 and Series 7121 are single line welding hoses for use with **ACETYLENE FUEL GAS ONLY**. The non-blooming tube minimizes the migration of combustible waxes or plasticizers to the surface of the rubber. However, the tube is neither flame- nor oil-resistant. The cover is neither flame- nor oil-resistant.

⚠ WARNING

Most single line welding hose looks alike. Grade R fuel gas hose is for use with acetylene fuel gas only. Ensure that the hose selected is compatible with the fuel gas selected.

Tube: Black EPDM
Reinforcement: Multiple textile spirals
Cover: Green (oxygen) and red (acetylene fuel gas) ribbed EPDM
Temp Range: -40°F to +200°F (-40°C to +93°C)
Brand Method: Series 7120 - white ink; Series 7121 - black ink
Brand Example: PARKER 7120 WELDING ⚠ WARNING ACETYLENE ONLY 1/4 ID MAX WP 200 PSI RMA IP-7-(YEAR) STD DUTY GRADE R COUPLE WITH 1 INCH FERRULES MADE IN USA (DATE CODE)

Design Factor: 4:1
Industry Standards: RMA IP-7
Applications:

- Maintenance and repair applications such as bending, brazing, cutting, fabricating, gouging, joining, piercing, pre-heating, post-heating, severing, soldering, straightening, surfacing and trimming
- Construction, factories, foundries, manufacturing, maritime, mining, salvage/scrap and steel mills

Compare To: Goodyear Wingfoot Grade R, Thermoid Single Line Grade R

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs)/100 ft	Min Bend Rad (in)	Max Rec WP (psi)	Std Pack Qty (ft)
7120-19200	3/16	4.8	2	0.438	11.1	7	2.0	200	800
7120-25200	1/4	6.4	2	0.531	13.5	10	2.5	200	800
7120-31200	5/16	7.9	2	0.594	15.1	13	3.0	200	750
7120-38200	3/8	9.5	2	0.656	16.7	14	4.0	200	700
7120-50200*	1/2	12.7	4	0.875	22.2	25	5.0	200	500
7121-19200	3/16	4.8	2	0.438	11.1	7	2.0	200	800
7121-25200	1/4	6.4	2	0.531	13.5	10	2.5	200	800
7121-31200	5/16	7.9	2	0.594	15.1	13	3.0	200	750
7121-38200	3/8	9.5	2	0.656	16.7	14	4.0	200	700
7121-50200	1/2	12.7	4	0.875	22.2	25	5.0	200	500

* Non-stock. Contact Parker for availability.

Packaging: Reels
Fitting Recommendation: As specified in CGA publication E-1

Grade R Single Line Welding Hose

Series 7031R Green Oxygen (3/4" ID x 200 PSI Only)



Series 7031R is a single line oxygen hose. The non-blooming tube minimizes the migration of combustible waxes or plasticizers to the surface of the rubber. However, the tube is neither flame- nor oil-resistant. The cover is neither flame- nor oil-resistant.

Oxygen hose in this size is frequently used as an oxygen supply/transfer line.

Tube: Black EPDM
Reinforcement: Multiple textile spirals
Cover: Green smooth EPDM
Temp Range: -40°F to +212°F (-40°C to +100°C)
Brand Method: White ink
Brand Example: PARKER 7031 GST® II/OXYGEN 3/4 ID (19.1 MM) MAX WP 300 PSI (200 PSI OXYGEN) RMA IP-7-(YEAR) STD DUTY GRADE R MADE IN USA (DATE CODE)

Design Factor: 4:1
Industry Standards: RMA IP-7

Applications:

- Maintenance and repair applications such as bending, brazing, cutting, fabricating, gouging, joining, piercing, pre-heating, post-heating, severing, soldering, straightening, surfacing and trimming
- Construction, factories, foundries, manufacturing, maritime, mining, salvage/scrap and steel mills

Compare To: Thermoid Green GP Oxygen

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs)/100 ft	Min Bend Rad (in)	Max Rec WP (psi)	Std Pack Qty (ft)
7031-75304R	3/4	19.1	4	1.156	29.4	39	6.0	200	350
7031-7530450R*	3/4	19.1	4	1.156	29.4	39	6.0	200	50

Packaging: Reels; * Carton
Fitting Recommendation: As specified in CGA publication E-1 Industrial crimp and reattachable

Inert Gas Hose

Series 7123



Tube: Black EPDM
Reinforcement: Multiple textile spirals
Cover: Black ribbed EPDM
Temp Range: -40°F to +200°F (-40°C to +93°C)
Brand Method: White ink
Brand Example: PARKER 7123 INERT GAS (ID) MAX WP 200 PSI
MADE IN USA (DATE CODE)
Design Factor: 4:1
Applications:

- Shield gas
- Arc welding systems

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs)/100 ft	Min Bend Rad (in)	Max Rec WP (psi)	Std Pack Qty (ft)
7123-19200	3/16	4.8	2	0.438	11.1	7.0	2.0	200	250
7123-25200	1/4	6.4	2	0.500	12.7	9.0	2.5	200	250

Packaging: Reels
Fitting Recommendation: As specified in CGA publication E-1
Fitted Assemblies: Available upon quotation

Arc welding is a process that does not require oxygen or fuel gas. This process produces heat via electricity, which “arcs” (jumps) from the electrode in the torch to the weld piece. Arc welding frequently incorporates a shield gas (an inert/noble gas, such as argon, carbon dioxide and helium) to “shield” the weld pool from airborne contaminants and remove residual heat. These atmospheric contaminants may cause defects in the weld if they come in contact with the electrode, the electrical arc or the welding metal.

Non-Conductive Cable Cover Hose

Series 7172



Tube:	Black blended nitrile
Reinforcement:	Multiple textile spirals
Cover:	Black smooth EPDM
Temp Range:	-20°F to +212°F (-29°C to +100°C)
Brand Method:	White ink
Brand Example:	PARKER SERIES 7172 ELECTRICALLY NON-CONDUCTIVE CABLE COVER / WATER COOLANT HOSE 1/4 ID (4.8 MM) 200 PSI MAX WP MADE IN USA (DATE CODE)
Design Factor:	4:1
Applications:	<ul style="list-style-type: none"> • Coolant line; non-conductive conduit • Arc welding systems

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs)/100 ft	Min Bend Rad (in)	Max Rec WP (psi)	Std Pack Qty (ft)
7172-19200	3/16	4.8	2	0.405	10.3	6	1.5	200	750
7172-25200	1/4	6.4	2	0.477	12.1	7	2.0	200	750
7172-31200	5/16	7.9	2	0.500	12.7	8	2.5	200	750
7172-38200	3/8	9.5	2	0.601	15.3	10	3.0	200	650

Packaging: Reels

Arc welding is a process that does not require oxygen or fuel gas. This process produces heat via electricity, which “arcs” (jumps) from the electrode in the torch to the weld piece.

The electrical cable from the power source to the torch is typically enclosed within a non-conductive hose that acts as a conduit. Series 7172 may also be used as a water outlet hose to cool the torch. A tap water/antifreeze solution may be used as coolant through a closed system containing a heat evacuation device.

Due to the high electrical content of the application, non-conductive hose is frequently used to conduct water and/or act as an insulator. This hose is non-conductive to a minimum of one megohm resistance per inch at 1,000 volts DC.

Oxygen Charging Hose

Series 7293



Tube:	Black neoprene
Reinforcement:	Multiple textile plies
Cover:	Green flame and oil-resistant wrapped neoprene
Temp Range:	-22°F to +176°F (-30°C to +80°C)
Brand Method:	Embossed
Brand Example:	PARKER SERIES 7293 OXYGEN CHARGING 500 PSI MAX WP MADE IN USA (LOT CODE)
Design Factor:	4:1
Applications:	<ul style="list-style-type: none"> • Charging, lancing, scarfing • Foundries and steel mills

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs)/100 ft	Min Bend Rad (in)	Max Rec WP (psi)	Std Pack Qty (ft)
7293-0500	1/2	12.7	2	0.992	25.2	38	3.5	500	100
7293-0750	3/4	19.1	2	1.276	32.4	54	3.5	500	100
7293-1000	1	25.4	2	1.528	38.3	68	4.5	500	100
7293-1250	1-1/4	31.8	2	1.930	49.0	108	5.0	500	100
7293-1500	1-1/2	38.1	2	2.174	55.2	124	7.0	500	100
7293-2000*	2	50.8	4	2.764	70.2	180	14.0	500	100

* Non-stock. Contact Parker for availability.

Packaging:	Coils
Fitting Recommendation:	Industrial crimp or reattachable

In basic oxygen steelmaking, molten iron from a blast furnace is charged (loaded) into a refractory-lined steelmaking furnace. Oxygen is then blown through a hose with a lance (injector) at high speeds into the molten iron, resulting in oxidation of carbon and impurities. By charging pure oxygen into rough molten pig iron, the temperature rises to approximately 3,000°F (1,700°C). This process reduces the carbon content of the alloy, changing the material into low-carbon steel.

It is the use of oxygen instead of air that improves the process, for the nitrogen and other gases contained in air do not react with the charge as oxygen does.

Series 7293 features a green cover color-coded for oxygen service. The tube is cleaned and the ends are capped at the factory to prevent contaminants from causing a combustion reaction.

Complementary Hose Products

LPG (Liquefied Petroleum Gas / Propane) Hose

LP Gas Hose - UL 21 - CSA Type I Series 7132 • 3/16" - 1"



Tube:	Black nitrile
Reinforcement:	Multiple textile spirals
Cover:	Perforated black neoprene
Temp Range:	-40°F to +180°F (-40°C to +82°C) <i>The hose construction is capable of this rating, however, LP Gas should NEVER be conveyed over 140°F (60°C).</i>
Brand Method:	Impression
Brand Example:	PARKER 7132 CSA CAN 1-8.1 TYPE I / CAUTION - LP GAS HOSE MH6737 UR® US (UL® Recognized component, with backwards "R") ISSUE NO. XXXX 350 PSI MAX WP MADE IN USA DE1 (DATE CODE)
Design Factor:	5:1
Industry Standards:	UL 21, Canadian Standards Association Type I
Applications:	Bobtail delivery trucks, cookers, grills, heaters

Air & Multi-Purpose Hose

E-Z Form™ Hose Unique hoses featuring extreme flexibility for installations where tight bends exceed the bend radius of other hoses or where formed hose might otherwise be required.

E-Z Form™ GS Hose Series 7395 • 1/2" - 4"



Tube:	Black high-temperature EPDM
Reinforcement:	Multiple textile plies with wire helix
Cover:	Black Greek corrugated EPDM
Temp Range:	-40°F to +257°F (-40°C to +125°C)
Brand Method:	Black text on blue stripe
Brand Example:	PARKER SERIES 7395 E-Z FORM GS HOSE 75 PSI MAX WP
Design Factor:	3:1
Vacuum Rating:	Full
Industry Standards:	SAE J20R2 D-1
Applications:	Coolant systems; vacuum service



E-Z Form™ MP Hose Series 7219 • 1/2" - 4"



Tube:	Black oil-resistant nitrile
Reinforcement:	Multiple textile plies with wire helix
Cover:	Black Greek corrugated neoprene
Temp Range:	-20°F to +180°F (-29°C to +82°C)
Brand Method:	Black text on red stripe
Brand Example:	PARKER SERIES 7219 E-Z FORM MP HOSE 75 PSI MAX WP
Design Factor:	3:1
Vacuum Rating:	Full
Applications:	Oil suction and return; drain lines

Air & Multi-Purpose Hose Assemblies

GST® II Air Hose Series 7092 / 7093 • 300 PSI • 1/4" - 3/8"

Tube:	Black EPDM
Reinforcement:	Multiple textile spirals
Cover:	Red or black EPDM
Couplings:	Brass with male 1/4" x 1/4" NPT threads
Temp Range:	-40°F to +212°F (-40°C to +100°C)
Brand Method:	White ink
Brand Example:	PARKER SERIES 7092 GST® II 1/4 ID (6.4mm) 300 PSI MAX WP MADE IN USA (DATE CODE)
Design Factor:	4:1
Applications:	Air compressors; shop air



Also available
in bulk reels

7092

Safety Precautions in the Use of Rubber Welding Hose

WARNING

Failure to follow these precautions may lead to premature hose failure causing explosion or fire which may lead to property damage, personal injury or death.

PERFORM FREQUENT WELDING HOSE INSPECTIONS REPLACE AND DISCARD DAMAGED HOSE OR HOSE ASSEMBLIES

DO

- Blow out residue from the interior of the hose prior to each use
- Ensure that fittings are wrench-tight and leak-free prior to each use
- Establish a regular and systematic welding hose preventative maintenance and replacement program
- Inspect the entire length of the hose prior to each use
- Perform periodic leak tests
- Purge hoses of gas in a well-ventilated area when not in use for thirty minutes or longer
- Purge hoses of gas by shutting off gas first at the torch and then at the regulator or supply source
- Remove dirt and oil from the cover of the hose prior to each use (do not use solvent)
- Use only fittings that are in accordance with the Compressed Gas Association publication E-1
- Use only ferrules to permanently secure fittings onto the hose
- Use only ferrules that are a minimum of one inch long
- Use Grade T hose for all fuel gases, including acetylene

DO NOT

- Abrade the cover of the hose
- Bend, kink or pinch the hose to shut off the flow of gas
- Drag the hose over sharp edges or hot metal
- Expose the hose to flame, oil or sparks
- Gouge the cover of the hose
- Hang or pull the hose by the attached torch
- Leave hoses pressurized when not in use
- Pull equipment by using the hose as a tether
- Recouple the hose ends
- Repair the hose or hose assemblies by using splicers, tape, or any other method
- Reuse damaged hose
- Strain/stress the hose/fitting interface
- Use adjustable clamps or bands to attach fittings to the hose (use permanently crimped ferrules)
- Use or store hose in an area with inadequate ventilation
- Use solvent to clean the hose
- Use acetylene at any pressure above 15 psi
- Use other fuel gases at any pressure above 40 psi
- Use Grades R or RM hose with any fuel gas other than acetylene

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 help determine the frequency of the inspection and the replacement of products. The safe use of welding hose requires the knowledge of the various hose grades, types, and attributes, including their compatibility with various fuel gases and applications; the discipline to institute a comprehensive and thorough training, safety and maintenance program; and the awareness to seek, recognize and eliminate unsafe practices.

For further information refer to:

Compressed Gas Association – CGA (www.cganet.com)

- E-1 Standard Connections for Regulator Outlets, Torches and Fitted Hoses for Welding and Cutting Equipment
- SB-11 Use of Rubber Welding Hose

Rubber Manufacturers Association – RMA (www.rma.org)

- IP-7 Standard for Rubber Welding Hose
- IP-11-5 Guide for Use, Maintenance and Inspection of Welding Hose



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manufacturers
association
Elastomer Products Group™



Parker Hannifin Corporation
Industrial Hose Division
Strongsville, OH
Toll Free IHP Customer Service:
phone 866 810 HOSE (4673)
www.safehose.com