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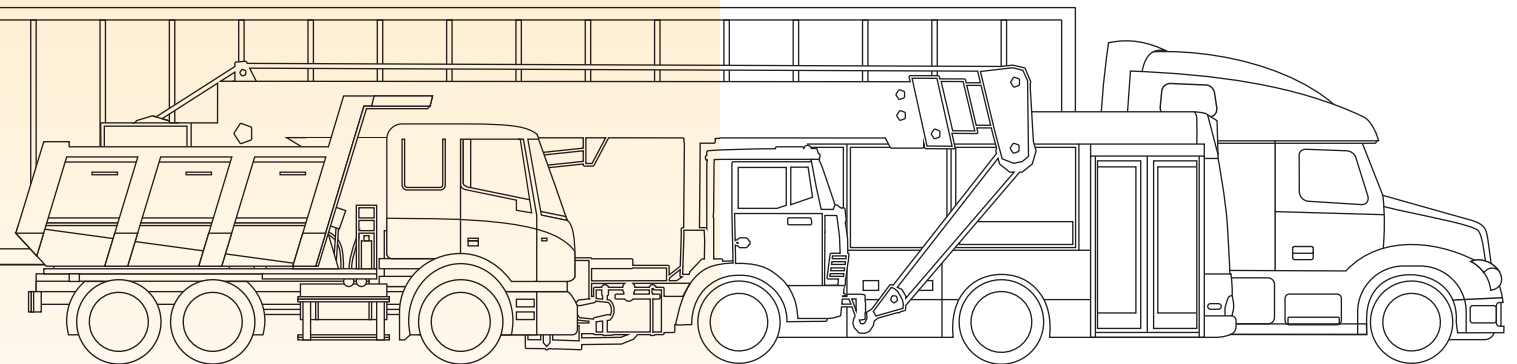
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ENGINEERING YOUR SUCCESS.

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Hose Assembly, Permanent

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Benders

Hand Tube Benders

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Exactol® Crank-Operated Benders

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Cutting and Deburring Tools

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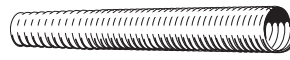
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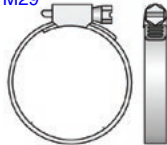
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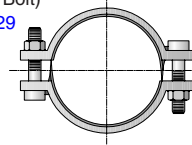
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 Lubricants**

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Parker O-Lube,
 O-ring Lubricant
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SLUBE-884-2-TFD

Parker Super
 O-Lube,
 O-ring
 Lubricant
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**Thread
 Sealants**

MTM04T-TFD

Threadmate™
 Sealant/
 Lubricant;
 4 oz Tube
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56707 and 56747

Loctite Thread Sealant
 567; 6 ml and 50 ml Tube
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54505 and 54531
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Thread-lockers

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and
4.5 oz.
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24221 and 24231
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Thread Identification

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Portboard
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Par-Lok® Wrenches
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Blow Guns

Controlled Pressure Blow Gun

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Controlled Pressure
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415-S
Controlled Pressure
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Full Pressure Blow Gun

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410-N
Full Pressure Blow Gun
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415-N
Full Pressure Blow Gun
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2600 Series
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DT-MFMO
Male Flare 37°JIC Inlet - Male O-Ring Boss Outlet
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Diagnostic Products

Senso-Control® Diagnostic Products

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Diagnostic Meter
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Serviceman Plus™
Diagnostic Meter Kits
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ServiceJunior™
Digital Pressure Gauge
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PD and EMA Style Kits
ServiceJunior™ Kits
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Serviceman Plus™
Diagnostic Meter
SCM-155-2-05
CAN Version
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Serviceman Plus™
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SCM-155-0-02
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Coupler, Female Thread
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PDP323, PDP343
Nipples, Male Pipe Thread
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PDP341, PDP361
Nipples, Male Straight Thread
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Flexible Hose

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Flexible Hose
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Storage

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9 Drawer Cabinet
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18-DC
18 Drawer Cabinet
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24B-Cabinet
40 Opening Bin
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40B-Cabinet
40 Opening Bin
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Pneu-Cab
Pneumatic Cabinet
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Choose the Correct No-Skive Parkrimp Machine to Meet Your Needs — Portable Parkrimp Machine Unit Selection Instructions

See next page for bench / floor mounted Parkrimp machines.

Step 1:

Select hydraulic hose that meets working pressure, fluid and temperature compatibility of your system.

Step 2:

Identify hose size.

Step 3:

Identify Fitting Series, end configurations and size.

Step 4:

Based on hose type, hose size, and fitting series, identify which Parkrimp Machine will best service your requirements:

- Karrykrimp
- Parkrimp 1
- Karrykrimp 2
- PHastkrimp
- Superkrimp
- Parkrimp 2

Step 5:

Based on hose type, hose size, fitting series, and Parkrimp Machine, select the proper:

- a. Unitized die-train color coded by size, and
- b. Die Ring, Space Ring or Space Plate.

Step 6:

Follow the selected Parkrimp Machine hose assembly instructions.

Step 7:

Check crimp diameter of 1st, 50th and last assembly produced in each size range.

Hose Number	Description	Minikrimp Size Range	Karrykrimp Size Range	Parkrimp 1 Size Range	Fitting Series
AX	One-Wire Braid Hydraulic Hose	-4/-12	-4/-12	-4/-12	HY
BXX	SAE 100R2 Type AT	-4/-12	-4/-12	-4/-12	HY
SS23CG	CNG and LPG Hose (CGA Type III)	Factory-made hose assemblies only			26
201	SAE100R5, SAE J1402 All	-4/-16	-4/-16	-4/-16	26
206	SAE 100R5 SAE J1402 All D.O.T.	-4/-16	-4/-16	-4/-16	26
213	SAE J1402AI	-4/-16	-4/-16	-4/-16	26
221FR	Marine Fuel and Engine Hose	-5/-16	-5/-16	-5/-16	20, 22, 26
225	SAE 100R5	-4/-16	-4/-16	-4/-16	26
244	Refrigerant 134a Hose SAE J2064 Type B, Class I	-16	-16	-16	26
266	SAE J1402 All	-4/-16	-4/-16	-4/-16	26
271	Air Brake Hose	Factory-made hose assemblies only			25
285	Air Conditioning and Refrigerant SAE J2064 Type C, Class I	-4/-12	-4/-12	-4/-12	26
293	Engine and Air Brake	-4/-16	-4/-12	-4/-12	26
301LT	SAE 100R2 Type AT Low Temperature	-4/-16	-4/-16	-4/-16	43
302	ISO 1436-1 Type 2 SN	-4/-16	-4/-20	-4/-20	30, 43
304	High Pressure – Phosphate Ester Resistant EPDM	-4/-16	-4/-20	-4/-20	43
341	SAE 100R9 Type AT	-6/-12	-6/-16	-6/-16	43
351TC/ST	4,000 PSI Constant WP “Tough Cover”	-4/-12	-4/-12	-4/-12	43
381	SAE 100R2 Type AT / DIN 20 022-2SN	-4/-16	-4/-20	-4/-20	43
421/426	SAE 100R1 Type AT High Temperature	-4/-16	-4/-20	-4/-20	43
421WC	Medium Pressure Wire Cover	-4/-16	-4/-16	-4/-16	43
424	SAE 100R1 Type AT – Phosphate Ester Resistant EPDM	-16	-16/-20	-16/-20	43
431	“Compact” SAE 100R16	-4/-16	-4/-16	-4/-16	43
436	“Compact” SAE 100R16	-6/-16	-6/-16	-6/-16	43
451TC/ST	Abrasion Resistant “Tough Cover” – Constant Pressure	-4/-16	-4/-16	-4/-16	43
471TC/ST	High Pressure – Compact with “Tough Cover”	-4/-16	-4/-16	-4/-16	43
472TC	Two-Wire Braid “Tough Cover”	—	-20	-20	43
482TC/ST	SAE 100R1 Type AT / DIN 20 022-1SN “Tough Cover”	-4/-16	-4/-16	-4/-16	43
601	SAE 100R3	-4/-16	-4/-16	-4/-16	43
811/811HT	1/2 SAE Minimum Bend Radius, SAE 100R4	-12/-16	-12/-20	-12/-20	81, 88
881	SAE 100R4	-12/-16	-12/-20	-12/-20	43

Choose the Correct No-Skive Parkrimp Machine to Meet Your Needs — Floor / Bench Parkrimp Machine Unit Selection Instructions

See previous page for portable Parkrimp machines.

Hose Number	Description	Karrykrimp 2 Size Range	PHastkrimp Size Range	Superkrimp Size Range	Parkrimp 2 Size Range	Fitting Series
AX	One-Wire Braid Hydraulic Hose	-4/-16	-4/-16	-4/-16	-4/-16	HY
BXX	SAE 100R2 Type AT	-4/-16	-4/-16	-4/-16	-4/-16	HY
P35-32	SAE 100R13	—	—	—	-32	78
SS23CG	CNG and LPG Hose (CGA Type III)	Factory-made hose assemblies only				26
201	SAE 100R5, SAE J1402 All	-4/-16	-4/-16	-4/-32	-4/-32	26
206	SAE 100R5 SAE J1402 All D.O.T.	-4/-16	-4/-16	-4/-32	-4/-32	26
213	SAE J1402 All	-4/-16	-4/-16	-4/-32	-4/-32	26
221FR	Marine Fuel and Engine Hose	-5/-16	-5/-16	-5/-16	-5/-16	20, 22, 26
225	SAE 100R5	-4/-16	-4/-16	-4/-32	-4/-32	26
244	Refrigerant 134a Hose SAE J2064 Type B, Class I	-16	-16	-16/-24	-16/-24	26
266	SAE J1402 All	-4/-16	-4/-16	-4/-32	-4/-32	20, 22, 26
285	Air Conditioning and Refrigerant SAE J2064 Type C, Class I	-4/-12	-4/-12	-4/-12	-4/-12	26
293	Engine and Air Brake	-4/-16	-4/-16	-4/-16	-4/-16	26
301LT	SAE 100R2 Type AT Low Temperature	-4/-16	-4/-16	-4/-16	-4/-16	43
302	SAE 100R2 Type AT	-4/-20	-4/-20	-4/-32	-4/-32	30, 43
304	High Pressure – Phosphate Ester Resistant EPDM	-4/-20	-4/-20	-4/-32	-4/-32	43
341	SAE 100R9 Type AT	-6/-20	-6/-20	-6/-20	-6/-20	43
351TC/ST	4,000 PSI Constant WP “Tough Cover”	-4/-12	-4/-12	-4/-12	-4/-12	43
381	SAE 100R2 Type AT / DIN 20 022-2SN	-4/-20	-4/-20	-4/-32	-4/-32	43
421/426	SAE 100R1 Type AT High Temperature	-4/-20	-4/-20	-4/-32	-4/-32	43
421WC	Medium Pressure Wire Cover	-4/-16	-4/-16	-4/-16	-4/-16	43
424	SAE 100R1 Type AT – Phosphate Ester Resistant EPDM	-16/-20	-16/-20	-16/-32	-16/-32	43
431	“Compact” SAE 100R16	-4/-16	-4/-16	-4/-16	-4/-16	43
436	“Compact” SAE 100R16	-6/-16	-6/-16	-6/-16	-6/-16	43
451TC/ST	Abrasion Resistant “Tough Cover” – Constant Pressure	-4/-20	-4/-20	-4/-20	-4/-20	43
471TC/ST	High Pressure – Compact with “Tough Cover”	-4/-16	-4/-16	-4/-16	-4/-16	43
472TC	Two-Wire Braid “Tough Cover”	-20	-20	-20/-32	-20/-32	43
482TC/ST	SAE 100R1 Type AT / DIN 20 022-1SN “Tough Cover”	-4/-16	-4/-16	-4/-16	-4/-16	43
601	SAE 100R3	-4/-16	-4/-16	-4/-16	-4/-16	43
701	DIN 20 023-4SP	-6/-12	-6/-12	-6/-12	-6/-12	70
711	SAE 100R11	—	—	-24	-24/-32	71
721	SAE 100R12	-6/-20	-6/-20	-6/-24	-6/-32	71
721TC	SAE 100R12 “Tough Cover”	-6/-20	-6/-20	-6/-24	-6/-32	71
721ST	SAE 100R12 “Super Tough Cover”	-8/-20	-8/-20	-8/-20	-8/-20	71
731	DIN 20 023-4SH	-12/-16	-12/-16	-12/-20	-12/-32	73
772TC/ST	SAE 100R12 “Tough Cover”	-6/-20	-6/-20	-6/-24	-6/-32	71
774	Very High Pressure – Phosphate Ester Resistant EPDM	-12/-20	-12/-20	-12/-24	-12/-32	71
781	SAE 100R13	-12/-16	-12/-16	-12/-20	-12/-24	78
782TC	SAE 100R13 EN 856 Type R13 “Tough Cover”	-10/-16	-10/-16	-10/-20	-10/-24	78
782ST	SAE 100R13 EN 856 Type R13 “Super Tough” Cover	-12/-16	-12/-16	-12/-20	-12/-24	78
792TC/ST	SAE 100R15 “Tough Cover”	—	—	-12/-16	-12/-20	79
811/811HT	SAE 100R4	-12/-20	-12/-20	-12/-32	-12/-32	43
881	SAE 100R4	-12/-20	-12/-20	-12/-32	-12/-32	81

Hose Assembly, Permanent

82C-061L

Karrykrimp

For use with [25](#), [26](#), [43](#), [81](#), and [HY Series fittings](#)

Capability

- Up to 1-1/4" ID 2 wire braided hose
- Up to 5/8" ID 4 wire spiral hose
- Only steel fittings

Features

- Portable, compact rugged design
- Numerous portable power unit options available
- Pivoting pusher design for easy die change o
- Increased height enables longer bent tube fittings to be crimped

Specifications

Rating: 30 ton force @ 10,000 psi maximum

Full Cycle Time: 30 seconds 82C-0EP power unit (1/2" 43 Series)

Standard Equipment for

Karrykrimp and Karrykrimp Bench Mount

Part Number: 82C-*			Description	Individual Part Number
-CHD	-061L	-KKB		
•	•	•	Crimp Head	82C-CHD
		•	Bench Power Unit Assembly	85C-1PH
•	•	•	Silver die ring	82C-R01
•	•	•	Black die ring	82C-R02
	•		Hose Assembly	85C-00L
	•		Stand Assembly	85C-STD

Optional Tooling for Karrykrimp and Karrykrimp Bench Mount

Part Number	Part Description
85C-KDA	Die Kit – Includes 43 Series dies in sizes 1/4", 3/8", 1/2", 3/4", 1" and 1-1/4" and 70/71 Series dies in sizes 3/8", 1/2", 3/4", 1", 1-1/4" ONLY .

Notes:

- For crimp instructions, see pages [N4](#) through [N6](#).
- Hose assemblies must be inspected for cleanliness and free of all foreign particles.
- Parker Hannifin will not accept responsibility for the operation of, or provide warranty coverage for, a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimper.



82C-KKB

Karrykrimp Bench Mount

For use with [25](#), [26](#), [43](#), [81](#), and [HY Series fittings](#)

Capability

- Up to 1-1/4" ID 2 wire braided hose
- Up to 5/8" ID 4 wire spiral hose
- Only steel fittings

Features

- Faster cycle times on bench mounted units
- Pivoting pusher design for easy die change out
- Compact bench mount design
- Increased height enables longer bent tube fittings to be crimped
- For use with 25, 26, 43, 81, and HY Series fittings

Specifications

Rating: 30 ton force @ 10,000 psi maximum

Full Cycle Time: 11 seconds (1/2" 43 Series)

Hydraulic Fluid: AW32 oil

This unit is designed to make about 400 crimps per day and is not designed to be a production crimper. Exceeding these suggested production amounts will significantly reduce the expectancy of the crimper components.

Note: Motor is dual voltage, 50/60hz suitable for 208-230/115v, 1ph, 60hz and 220-230/110v, 1ph, 50hz. Motor can be rewired by a qualified electrician to operate at alternate voltage.



82C-0HP

Hand Pump

For use with the [Minikrimp](#), [Karrykrimp](#) and [Karrykrimp 2](#)

Ease of operation hand pump delivers 10,000 psi

Length: 23"

Width: 4"

Height: 5"

Port Size: 3/8" NPTF

Weight: 9 lbs

Hydraulic Fluid: Enerpac oil



82C-0EP

Electric Pump

For use with the [Minikrimp](#), [Karrykrimp](#) and [Karrykrimp 2](#)

Ease of operation electric pump delivers 10,000 psi

Length: 13"

Width: 13"

Height: 15"

Port Size: 3/8" NPTF

Weight: 31 lbs

Hydraulic Fluid: Enerpac oil
115 volt, 1 phase, 50/60 Hz, 9 amp



Enerpac Warranty Statement:

Enerpac products are warranted to be free of defects in materials and workmanship. Any product that does not conform to specification will be repaired or replaced at Enerpac's expense, anywhere in the world; simple as that! This warranty does not cover ordinary wear and tear, abuse, misuse, alterations, or the use of improper fluids. Determination of the authenticity of a warranty claim will be made only by Enerpac or its Authorized Service Centers.

Dimensions and pressures are for reference only and are subject to change.



85C-061L Karrykrimp 2

For use with [25,26, 43, 70, 71, 73, 77, 78, 81, and HY Series fittings](#)

Capability

- Up to 1-1/4" ID 2 wire braided hose
- Up to 1-1/4" ID 4 wire spiral hose
- Up to 1" ID 6 wire spiral hose

Features

- Portable, compact rugged design
- Numerous portable power unit options available
- Pivoting pusher design for easy die change out

Specifications

Rating: 60 ton force @ 10,000 psi maximum
Full Cycle Time: 20 seconds with 85C-0EP power unit (1/2" 43 series)

Standard Equipment for Karrykrimp 2 and Karrykrimp 2 Bench Mount

Part Number 85C-*			Description	Individual Part Number
-CHD	-061L	-KKB		
•	•	•	Crimp Head	85C-CHD
		•	Bench Power Unit Assembly	85C-1PH
•	•	•	Silver die ring	85C-R01
•	•	•	Black die ring	85C-R02
	•		Hose Assembly	85C-00L
	•		Stand Assembly	85C-STD

Optional Tooling for Karrykrimp 2 and Karrykrimp 2 Bench Mount

Part Number	Part Description
85C-KDA	Die Kit – Includes 43 Series dies in sizes 1/4", 3/8", 1/2", 3/4", 1" and 1-1/4" and 70/71 Series dies in sizes 3/8", 1/2", 3/4", 1", 1-1/4" ONLY .

Notes:

- For crimp instructions, see [pages N4 through N6](#).
- Hose assemblies must be inspected for cleanliness and free of all foreign particles.
- Parker Hannifin will not accept responsibility for the operation of, or provide warranty coverage for, a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimper.



85C-KKB Karrykrimp 2 Bench Mount

For use with [25, 26, 43, 70, 71, 73, 77, 78, 81, and HY Series fittings](#)

Capability

- Up to 1-1/4" ID 2 wire braided hose
- Up to 1-1/4" ID 4 wire spiral hose
- Up to 1" ID 6 wire spiral hose

Features

- Faster cycle times on bench mounted units
- Pivoting pusher design for easy die change out
- Compact bench mount design

Specifications

Rating: 60 ton force @ 10,000 psi maximum
Full Cycle Time: 17 seconds (1/2" 43 series)

Hydraulic Fluid:

AW32 oil
 This unit is designed to make about 400 crimps per day and is not designed to be a production crimper. Exceeding these suggested production amounts will significantly reduce the the expectancy of the crimper components.

Note: Motor is dual voltage, 50/60hz suitable for 208-230/115v, 1ph, 60hz and 220-230/110v, 1ph, 50hz. Motor can be rewired by a qualified electrician to operate at alternate voltage.



82C-0AP

Air/Hydraulic Pump

For use with the [Minikrimp, Karrykrimp and Karrykrimp 2](#)



Lightweight pump operates with 80-110 psi shop air pressure and delivers 10,000 psi

Length: 15"
Width: 6"
Height: 6"
Intake Port Size: 1/4" NPTF
Output Port Size: 3/8" NPTF
Weight: 14 lbs
Hydraulic Fluid: Enerpac oil

85C-0HP

Hand Pump

For use with the [Minikrimp, Karrykrimp and Karrykrimp 2](#)



Ease of operation hand pump delivers 10,000 psi

Length: 29"
Width: 13"
Height: 11"
Port Size: 3/8" NPTF
Weight: 61 lbs
Hydraulic Fluid: Enerpac oil

Enerpac Warranty Statement:
 Enerpac products are warranted to be free of defects in materials and workmanship. Any product that does not conform to specification will be repaired or replaced at Enerpac's expense, anywhere in the world; simple as that! This warranty does not cover ordinary wear and tear, abuse, misuse, alterations, or the use of improper fluids. Determination of the authenticity of a warranty claim will be made only by Enerpac or its Authorized Service Centers.

Dimensions and pressures are for reference only and are subject to change.

83C-001 Parkrimp 2

For use with 25, 26, 43, 70, 71, 73, 76, 77, 78, 79, 81, S6 and HY Series fitting

Capability

- Up to 2" ID 2 wire braided hose
- Up to 2" ID 4/6 wire spiral hose

Features

- Easy to use vertical design
- Crimps full range of Parker hoses from 1/4" through 2" ID
- Crimps both steel and stainless steel fittings

Specifications

Rating: 125 ton force @ 5,000 psi maximum

Full Cycle Time:

30 seconds without adapter bowl
20 seconds with adapter bowl

Hydraulic oil: Enerpac oil

Standard Equipment

Part Number: 83C-*				Description	Individual Part Number
-001	-081	-002	-082		
•	•	•	•	Parkrimp 2 crimper head assembly	83C-080
•	•			Parkrimp 2 stand assembly with 230/460 volt, 3 phase, 50/60 Hz power unit (wired for 230 volt)	83C-S40
		•	•	Parkrimp 2 stand assembly with 230 volt, 1 phase, 50/60 Hz power unit	83C-S20
•	•	•	•	Adapter bowl	83C-OCB
•	•	•	•	Spacer ring	83C-R02
•	•	•	•	Spacer Plate	83C-R02H
•	•			Die Kit — Includes 43 Series dies in sizes 1/4", 3/8", 1/2", 3/4", 1", 1-1/4" dies and 70/71 Series dies in sizes 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2", 2" ONLY	83C-KDA



94C-001-PFD Minikrimp™

For use with 25, 26, 43, 55, 56, 58, 81, 91, 91N, 93N, CY and HY Series fittings

Capability

- Up to 3/4" ID 2 wire braided hose
- Only steel fittings

Features

- Light weight, portable, compact all-in-one unit
- Handpump or air over hydraulic design
- Removable pusher design for easy die change out
- Do not crimp stainless steel fittings

Specifications

Rating: 30 ton force @ 10,000 psi maximum

Full Cycle Time: 30 seconds

Weight: 42 lbs. with hand pump

Standard Equipment

Part Number 94C-*		Description	Individual Part Number
-001-PFD	-002-PFD		
•	•	Base unit	94C-080-PFD
•		Hand pump	015301
	•	Air over hydraulic pump kit with tubing and adapters	25399
•	•	Silver die ring	82C-R01-PFD



94C-001-PFD

Optional Tooling

Part Number	Part Name and Description
015736	Side Vise Mount
015306	Upright Table Mount
015307	Upright Vise Mount
82C-R02-PFD	Black Die Ring
015309	High Pressure Hose with Quick Coupling
015308	Bent Tube for Hand Pump Only
025349	Bent Tube for Air Over Hydraulic Pump Only

Notes: • For crimp instructions, see pages N4 through N6.

• Hose assemblies must be inspected for cleanliness and free of all foreign particles.

• Parker Hannifin will not accept responsibility for the operation of, or provide warranty coverage for, a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimper.

85C-0EP

Electric Pump

For use with the Minikrimp, Karrykrimp and Karrykrimp 2

Heavy duty electric pump delivers 10,000 psi at a faster cycle time

Length: 19"
Width: 11"
Height: 17"
Port Size: 3/8" NPTF
Weight: 59 lbs

Hydraulic Fluid: Enerpac oil
115 volt, 1 phase, 50/60 Hz, 20 amp



85C-12V

Vehicle Battery-Powered Pump

For use with the Minikrimp, Karrykrimp and Karrykrimp 2

Ideal unit for Parker Mobile Hose Replacement Service, delivering 10,000 psi.

Length: 12"
Width: 8"
Height: 19.5"
Weight: 67 lbs
Hydraulic Fluid: ISO-46



Enerpac Warranty Statement

Enerpac products are warranted to be free of defects in materials and workmanship. Any product that does not conform to specification will be repaired or replaced at Enerpac's expense, anywhere in the world; simple as that! This warranty does not cover ordinary wear and tear, abuse, misuse, alterations, or the use of improper fluids. Determination of the authenticity of a warranty claim will be made only by Enerpac or its Authorized Service Centers.

Dimensions and pressures are for reference only and are subject to change.



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8PC-001

Hydraulic Press Kit

For use with [26, 43, 81 and HY Series Fitting](#) ONLY

Specifications

Required Height from

Press Base to Press Ram: 10 inches

Required Width

of Bowl Diameter: 5 inches

Bowl Rating: 30 tons force maximum

Minimum Required Press Capacity:

Hose Size 1/4" to 1/2" needs a 20 ton press

Hose size 5/8" to 1-1/4" needs a 30 ton press

Standard Equipment

Part Number	Description	Individual Part Number
8PC-001		
•	Bowl Assembly	8PC-030
•	Pusher	8PC-00P
•	Silver Die Ring	81C-R01
•	Black Die Ring	81C-R02
•	43 Series dies in 1/4", 3/8", 1/2", 3/4" and 1"	80C-Axx



8GC-002

Gates Conversion Kit

For use with [26, 43, 81 and HY Series Fitting](#) ONLY

Convert *Gates 701, 703 and 707 bottom loading crimpers* to utilize Parker Parkrimp No-Skive fittings.



Standard Equipment

Part Number	Description	Individual Part Number
8GC-002		
•	Bowl Assembly	8PC-030
•	Silver Die Ring	81C-R01
•	Black Die Ring	81C-R02
•	43 Series Dies in 1/4", 3/8", 1/2", 3/4" and 1"	80C-Axx

8WC-001

Weatherhead Conversion Kit

For use with [26, 43, 81 and HY Series Fitting](#) ONLY

Convert *Weatherhead T-400 crimper* to utilize Parker Parkrimp No-Skive fittings.



Standard Equipment

Part Number	Description	Individual Part Number
8WC-001		
•	Bowl Assembly	8PC-030
•	Pusher	8WC-00P
•	Silver Die Ring	81C-R01
•	Black Die Ring	81C-R02
•	43 Series Dies in 1/4", 3/8", 1/2" and 3/4"	80C-Axx

Notes:

- For additional information and operating instructions, visit the Parker Hose Products Division website at www.parkerhose.com.
- For crimping instructions, see [pages N4 through N6](#).
- Hose assemblies must be inspected for cleanliness and free of all foreign particles.

Dimensions and pressures are for reference only and are subject to change.

Benders

2829 Hand Tube Benders, Inch

These are sturdy, easy-to-use hand tools for fast and accurate bending without kinks or visible flattening. Twelve individual sizes from -2 (1/8" OD) to -16 (1" OD) are available.

Medium Duty Inch Hand Tube Benders

Designed and built for fast, accurate bends and long service life.

These are individual benders for eight inch tube sizes (1/8", 3/16", 1/4", 5/16", 3/8", 1/2" 5/8", 3/4"). All of these benders will bend copper, aluminum, annealed steel and stainless steel. These can be used in hands or mounted in a bench vise.

HOW TO USE: Simply align marks of the pressure arm and radius block, then bend to the desired angle (up to 180°) by pulling steadily on the slide block handle. Bend angles are indicated on the radius block, both front and back. (Detailed instructions are included with each bender.)

Part Number	Size	Tube OD (in.)	Radius to Tube Centerline (in.)	Min. Wall Without Flattening (in.)	Recommended Max. Wall Thickness	
					Copper, Aluminum (in.)	Steel, Stainless Steel (in.)
2-2829S	2	1/8	7/16	0.012	Any	0.032
3-2829S	3	3/16	9/16	0.020	Any	0.032
4-2829S	4	1/4	9/16	0.028	Any	0.083
5-2829S	5	5/16	15/16	0.032	Any	0.083
6-2829S	6	3/8	15/16	0.032	Any	0.083
8-2829S	8	1/2	1 1/2	0.042	Any	0.083
10-2829S	10	5/8	3	0.042	Any	0.065
12-2829S	12	3/4	3 3/4	0.049	Any	0.065



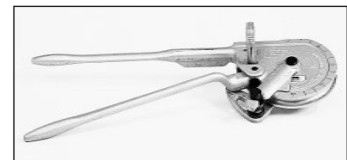
Medium Duty Inch Hand Tube Bender

Ratchet Hand Tube Benders

These are individual benders for three tube sizes, 5/8", 3/4" and 7/8", in copper, aluminum, annealed steel and stainless steel. They can be used in hands or mounted in a bench vise.

HOW TO USE: Position the tube in the bender, close the latch and pull the ratchet handle away from radius block handle until the desired angle (up to 180°) is formed. Bend angles are indicated on the radius block. (Detailed instructions are included with each bender.)

Part Number	Size	Tube OD (in.)	Radius to Tube Centerline (in.)	Min. Wall Without Flattening (in.)	Recommended Max. Wall Thickness	
					Copper, Aluminum (in.)	Steel, Stainless Steel (in.)
10-2829	10	5/8	3	0.042	Any	0.049
12-2829	12	3/4	3 3/4	0.049	Any	0.065
14-2829	14	7/8	3 3/4	0.049	Any	0.065



Ratchet Hand Tube Bender

16-2829 - 1" Hand Tube Bender

For 1" OD tube in soft copper and aluminum materials. This bender can be used in hands, but mounting in a bench vise is suggested, especially for heavier wall thickness tube.

HOW TO USE: Align marks and bend the tube to the desired angle (up to 180°) by pulling steadily on the operating handle. The handle may be re-positioned for maximum leverage. Bend angles are indicated on the radius block. (Detailed instructions are included with the bender.)

Part Number	Size	Tube OD (in.)	Radius to Tube Centerline (in.)	Min. Wall Without Flattening (in.)	Recommended Max. Wall Thickness	
					Copper, Aluminum (in.)	Steel, Stainless Steel (in.)
16-2829	16	1	3 1/2	.0065	Any	Not Recommended



1" Hand Tube Bender

Dimensions and pressures are for reference only and are subject to change.

2829 Hand Tube Benders, Metric

These are sturdy, easy-to-use hand tools for fast and accurate bending without kinks or visible flattening. Individual sizes in ten models from size 5mm to 25mm are available.

Medium Duty Metric Hand Tube Benders

Designed and built for fast, accurate bends and long service life.

These are individual benders for six metric tube sizes (5mm, 6mm, 8mm, 10mm, 12mm and 14mm). All of these benders will bend copper, aluminum, annealed steel and stainless steel. These can be used in hands or mounted in a bench vise.

HOW TO USE: Simply align the marks on the slide block and radius block, then bend to the desired angle (up to 180°) by pulling steadily on the slide block handle. Bend angles are indicated on the radius block, both front and back. (Detailed instructions are included with each bender.)

Part Number	Tube OD (mm)	Radius to Tube Centerline (mm)	Min. Tube Wall Thickness (mm)	Recommended Max. Wall Thickness	
				Copper, Aluminum (mm)	Steel, Stainless Steel (mm)
2829-5mm	5	14.3	0.5	Any	1.0
2829-6mm	6	14.3	1.0	Any	1.5
2829-8mm	8	23.8	1.0	Any	1.5
2829-10mm	10	23.8	1.0	Any	2.0
2829-12mm	12	38.1	1.0	Any	2.0
2829-14mm	14	38.1	1.0	Any	2.0



Medium Duty Metric Hand Tube Bender

367 and 368

Tube Benders, Lever Type

For soft copper, aluminum, brass, steel and other metal tubing

Triple Header Benders – Calibrated markings for making accurate left-hand, right-hand and offset bends. Ninety degree start requires less effort, making bending fast and easy.

Part Number	Part Description
367-FH-BPD	For 1/8", 3/16" and 1/4" (3, 4, and 6 mm) OD tubing, 9/16" radius to center of tube.
368-FH-BPD	For 1/4", 5/16" and 3/8" (6 and 8 mm) OD tubing, 15/16" radius to center of tube.



Lever Type Tube Bender

102

Tube Benders, Spring Type

For soft copper and aluminum tubing

For 1/4" to 5/8" OD tubing.

Tools allow hand bending of soft tubing to any shape without collapsing walls. Special spring steel, nickel finished. End belled for quick tube removal.

Part Number	Tube OD (in.)	Length (in.)
102-F-04-BPD	1/4	10
102-F-06-BPD	3/8	10
102-F-08-BPD	1/2	12



Spring Type Tube Bender

Dimensions and pressures are for reference only and are subject to change.

Models 412/424 — Exactol® Crank-Operated Benders

These portable benders are vise or bench mountable for easy action and fast accurate bending to 180°. Two models are available to bend tube sizes 4 (1/4") through 24 (1 1/2"). Exactol benders are designed with a worm-gear drive with a 60 to 1 gear ratio to allow accurate bending with minimum effort. They bend aluminum, copper, annealed steel and annealed stainless steel without kinks or wrinkles. Easy crank operation permits continuous production without excessive operator fatigue; for use in tube fabrication shops, in the field, or in factory maintenance departments.

A video (on DVD) is included to provide proper instructions for use.

Exactol® Model 412

The Exactol Model 412 will bend tube from size 4 (1/4") through size 12 (3/4") and 6mm through 20mm inclusive and is completely portable. Accessories include a sturdy metal carrying case, which accommodates the 412 bender, slide block, and selected radius blocks. See page R7 for wall thickness capabilities. May be held in a vise or bench mounted using the bench mounting adapter. Bulletin 4391-B400S and DVD are included with bender, which describe the operation in detail.

NOTE: The 412 must be bench mounted if mandrels are used.

Components Required: The minimum components required are a Model 412 Bender with a slide block and a radius block which match the tube OD to be bent.



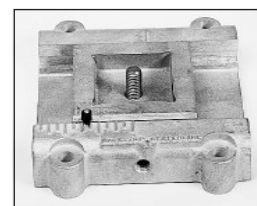
412 Bender

Part Number	Part Name and Description
560569	Exactol Model 412 Bender (for 1/4" through 3/4" OD)
550585	Slide Block (for sizes 4-5-6-8-10-12)
820091	Slide Block (for sizes 6mm-8mm-12mm-12mm-14mm)
820092	Slide Block (for sizes 15mm-16mm-18mm-20mm)
**	Radius Blocks (for sizes 4-5-6-8-10-12 and 6mm thru 38mm)

** See [pages M17-M18](#)



Slide Block



Bench Mount Adapter

Optional Accessories

Part Number	Part Description
550572	Carrying Case (for bender, slide block and selected radius blocks)
550570	Bench Mounting Adapter
**	Mandrel Bending Components for 412 and 424 Benders

** See www.parker.com

Exactol® Model 412 Kit

This 412 kit contains all the basic tool requirements for bending tube from 1/4" through 3/4".

Part Number	Part Description
412 KIT	Exactol Model 412 Kit

The following part numbers are included in the kit:

Part Number	Part Name and Description
560569	Exactol Model 412 Bender
550572	Carrying Case
550585	Slide Block for 1/4" through 3/4" tube
550579	Radius Block – 1/4" OD tube
550581	Radius Block – 3/8" OD tube
550582	Radius Block – 1/2" OD tube
550583	Radius Block – 5/8" OD tube
550584	Radius Block – 3/4" OD tube



412 Kit

Dimensions and pressures are for reference only and are subject to change.

Exactol® Model 424

The Exactol Model 424 will bend tube from size 4 (1/4" OD) through size 24 (1 1/2" OD) and 6mm through 38mm inclusive. See page R7 for wall thickness capabilities. It is completely portable and may be vise or bench mounted. Bulletin 4391-B400S and video are included with the bender, which describe the operation in detail.

NOTE: The 424 must be bench mounted if mandrels are used.

A video (on DVD) is included to provide proper instructions for use.

Components Required: The minimum components required are a Model 424 Bender with a slide block and a radius block that match the tube OD to be bent.

Part Number	Part Name and Description
621044	Exactol Model 424 bender (for 1/4" through 1 1/2" OD)
550585	Slide Block (for sizes 4-5-6-8-10-12)
621045	Slide Block (for sizes 14-16-18-20)
870150	Slide Block (for size 24)
820091	Slide Block (for sizes 6mm-8mm-10mm-12mm-14mm)
820092	Slide Block (for sizes 15mm-16mm-18mm-20mm)
820093	Slide Block (for sizes 22mm-25mm-28mm-30mm)
820094	Slide Block (for size 35mm)
870150	Slide Block (for size 38mm)
**	Radius Blocks (for sizes -4 thru -24 and 6mm thru 38mm)

** See [pages M17-M18](#)

Optional Accessories

Part Number	Part Name and Description
631156	Bench Mounting Adapter
**	Mandrel Bending Components for 412 and 424 Benders

** See www.parker.com

Exactol® Model 424 Kit

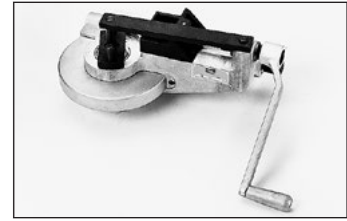
This 424 Kit contains all the basic tool requirements for bending tube from 1/4" through 1 1/2".

Part Number	Part Description
424 KIT	Exactol Model 424 Kit

The following part numbers are included in the kit:

Part Number	Part Name and Description
621044	Exactol Model 424 bender (for 1/4" through 1 1/2" OD)
550585	Slide Block (for sizes 4-5-6-8-10-12)
621045	Slide Block (for sizes 14-16-18-20)
870150	Slide Block (for size 24)*
550579	Radius Blocks – 1/4" OD Tube*
550581	Radius Block – 3/8" OD Tube
550582	Radius Block – 1/2" OD Tube
550583	Radius Block – 5/8" OD Tube
550584	Radius Block – 3/4" OD Tube
621047	Radius Block – 1" OD Tube
621049	Radius Block – 1 1/4" OD Tube
870149	Radius Block – 1 1/2" OD Tube*

* Items not shown in the photo, but which are included in the 424 Kit.



424 Bender



Slide Block



424 Kit

Radius Blocks

For use with Exactol Models 412/424 benders.

The 412 and 424 bender radius blocks have built in tube clamps, therefore separate clamp blocks are not required. The radius blocks are interchangeable within bender size ranges. Close bend radius blocks utilize the small bend radii, but also allow the bend to begin closer to the end connection.

412 and 424 Bender Small Bend Radius Blocks

Part Number	Size	Tube OD (in.)	Bend Radius (in.)
550573	4	1/4	9/16
550574	5	5/16	11/16
550575	6	3/8	15/16
550576	8	1/2	1 1/4
550577	10	5/8	1 1/2
550578	12	3/4	1 3/4

412 and 424 Bender Large Bend Radius Blocks

Part Number	Size	Tube OD (in.)	Bend Radius (in.)
550579	4	1/4	3/4
550580	5	5/16	1
550581	6	3/8	1 1/4
550582	8	1/2	2
550583	10	5/8	2 1/2
550584	12	3/4	3
621046	14	7/8	3 1/2
621047	16	1	4
621048	18	1 1/8	4 1/2
621049	20	1 1/4	5
870149	24	1 1/2	5



Small Bend Radius Block



Large Bend Radius Block

412 and 424 Bender — Close Bend Radius Blocks

These adapters are used when bends are needed close to the end of the tube after the flare has been made, ferrule has been pre-set, or flange has been made. For flared or Ferulok fittings, attach tube end by threading tube nut onto the radius block threaded pin. To use this block with Seal-Lok fittings, Close Bend Adapters for Seal-Lok must be used to attach the tube to the radius block.

Part Number	Size	Tube OD (in.)	Bend Radius (in.)
590533	8	1/2	1 1/4
590535	10	5/8	1 1/2
590537	12	3/4	1 3/4



Close Bend Radius Block

Close Bend Adapters for Seal-Lok

These adapters are used when bends are needed close to the end of the tube after the flange has been made or the sleeve has been brazed onto the end of the tube.

HOW TO USE: Screw the Seal-Lok adapter into the internal thread* of the threaded pin on the radius block. Then attach the flanged or brazed tube by threading the tube nut to the Seal-Lok adapter on the radius block threaded pin.

* If the threaded pin does not have an internal thread, a new threaded pin is required.

Part Number	Tube OD (in.)	Part Name and Description
930421-8	1/2	Seal-Lok Adapter
930421-10	5/8	Seal-Lok Adapter
930421-12	3/4	Seal-Lok Adapter
930421-16	1	Seal-Lok Adapter
930421-20	1 1/4	Seal-Lok Adapter
930421-24	1 1/2	Seal-Lok Adapter
930420-8	1/2	Threaded Pin (for Close Bend Radius Blocks)
930420-10	5/8	Threaded Pin (for Close Bend Radius Blocks)
930420-12	3/4	Threaded Pin (for Close Bend Radius Blocks)
930420-16	1	Threaded Pin (for Close Bend Radius Blocks)
930420-20	1 1/4	Threaded Pin (for Close Bend Radius Blocks)
930420-24	1 1/2	Threaded Pin (for Close Bend Radius Blocks)



Seal-Lok Close Bend Adapter

Dimensions and pressures are for reference only and are subject to change.

412 and 424 Bender Metric Radius Blocks

Part Number	Tube OD (mm)	Bend Radius (mm)	Part Number	Tube OD (mm)	Bend Radius (mm)
820090-6mm	6	14	820090-20mm	20	44
820090-8mm	8	18	820090-22mm	22	89
820090-10mm	10	24	820090-25mm	25	102
820090-12mm	12	32	820090-28mm	28	102
820090-14mm	14	38	820090-30mm	30	127
820090-15mm	15	38	820090-32mm	32	127
820090-16mm	16	38	820090-35mm	35	127
820090-18mm	18	44	870149*	38	127

* Same as 1-1/2" Radius Block



Radius Block

Cutting and Deburring Tools

Kloskut® Tube Cutters

These adjustable tube cutters are designed to produce square cut ends with no external burr and minimum internal burr when used on fully annealed copper, brass, aluminum, and steel tube. Both feature a hardened and burnished tool-steel cutting wheel, flare cut-off grooves in rollers for removal of old flares and a swing-away reamer for removing internal burrs. The handle feeds and adjusts the cutting wheel to uniformly cut tube as the cutter is rotated.

NOTE: Tube cutters are not recommended for use with stainless steel tube because of the work hardening effect. The use of a hacksaw with a "Tru-Kut" Sawing Vise or a rotary teeth saw is recommended for stainless steel.

Medium Kloskut

Part Number	Part Name and Description
218B	Tube cutter for 1/8" to 1 1/8" OD
218B Wheel	Cutter Wheel for 218B
218B Shaft	Cutter Shaft



218B Medium Kloskut Tube Cutter



1232 Large Kloskut Tube Cutter

Large Kloskut

Part Number	Part Name and Description
1232	Tube Cutter for 3/4" to 2" OD
1232 Wheel	Cutter Wheel for 1232

Plastic Kloskut Tube Cutter

Part Number	Part Name and Description
PTC-001	Plastic Tube Cutter – May be used with polyethylene, Polypropylene, nylon and other thermoplastic tubing. For tube OD sizes 1/8" to 1/2"
PTC-001RB	Replacement blades



PTC-001, Plastic Tube Cutter and PTC-001RB, Replacement blades

TC-1050-BPD

Requires only 1 1/4" swing radius. (Requires only 1 3/8" swing radius with 5/8" tube.)

Repositioned rollers to bottom of tool allows for easier cutter engagement on tubing. Enclosed feed-screw minimized contamination, assuring continued free operation. Redesigned feed mechanism improves overall cutting action.

Part Number	Part Name and Description
TC-1050-BPD	Size: 1 3/4" x 1 1/4" x 1/2" Weight: 2 1/2 oz.
S32633-BPD	Cutting wheel for TC-1050-BPD



TC-1050-BPD Tube Cutter

Dimensions and pressures are for reference only and are subject to change.

Cut-Off Saw

The 974250 Cut-Off Saw is designed to operate at low speed to prevent work hardening the tube end. The saw will assure a square cut on the tube with minimum burrs. The saw will cut 1/4" through 2 3/4" copper, brass, aluminum, steel and stainless steel tube. An adequate supply of cutting fluid is provided by an internal recirculating pump. The unit is designed for bench or stand mounting and operates on 110V, 15 amp power supply.

Part Number	Part Description
974250	Cut-Off Saw

Accessories

Part Number	Part Description
AF160026	Saw Base

Replacement Parts

Part Number	Part Name and Description
Saw Lube	Cutting Lubricant (Approx. 1 gal. container)
987036	Saw Blade – 250 mm x 2.0 mm thick (all purpose)
987037	Saw Blade – 200 mm x 2.0 mm thick (all purpose)



Cut-Off Saw (shown on Saw Base)

631075

Hose Cut-Off Machine - Karrykut

Features

- Portable saw for cutting on the job
- Unique clamp system spreads hose as it cuts to prevent blade binding
- Cuts multi-braided wire reinforced hose including 4 spiral construction up to 1-1/4" ID

Specifications

- Dimensions: 16" wide x 12" long x 19" high
- Shipping Weight: 58 lbs.

Standard Equipment

Part Number	Individual Part Number	Description
631075	631140	Power saw with 115volt (13 amp) universal AC motor
	631076	Universal clamp attachment (can be used with any portable power saw unit having a 5/8" arbor, 7" blade capacity)
	621102	Cutting blade (7" with 5/8" arbor size)



Karrykut Hose Cut-Off Machine

TH3-51

Hose Cut-Off Machine

Features

- Standard 14" scalloped blade
- Front plate with useable pins easily holds in place for a straight cut
- Clear face shield
- Cuts 1 & 2 wire brain through 2" ID, 4-wire spiral through 2" ID, and 6-wire spiral through 1" ID

Specifications

- 4.5 HP/115 volts 20 amp 1PH 50/60 cycle motor (a 20 amp dedicated circuit is recommended)
- Dimensions - 22-1/2" wide x 13" long x 25-1/2" high
- Shipping weight - 67 lbs.
- Blade size - 14" x 0.125" x 1"

Part Number	Part Description
TH3-51	Saw

Optional Equipment

Part Number	Part Name and Description
TH3-50-1	Scalloped Cutting Blade
TH3-50-2	Smooth Bevel Cutting Blade



TH3-51 Hose Cut-Off Machine

Dimensions and pressures are for reference only and are subject to change.

332T-115V

Hose Cut-Off Machine

Features

- For quick, easy cutting of spiral reinforced hose up to 1-1/4" ID
- Moving parts shielded by guards

Specifications

- Dimensions: 13" wide x 26" long x 22" high
- Shipping Weight: 71 lbs.

Standard Equipment

Part Number	Individual Part Number	Description
332T-115V		Hose Cut-Off Machine with 1-1/2 HP, 3650 RPM, 115/230V single phase electric motor wired for 115V
	24398	Scallop Cutting Blade(8" with 5/8" arbor size)

Optional Equipment

Part Number	Part Description
580661	Smooth Cutting Blade



332T-115V Hose Cut-Off Machine

239 and 339

Hose Cut-Off Machine

Features

- Designed for heavy duty use
- Cuts multi-braided wire reinforced hose including 6 spiral construction up to 2" ID

Specifications

- Dimensions: 22" wide x 42" long x 24" high
- Shipping Weight: 115 lbs.

Standard Equipment

Part Number	Individual Part Number	Description
239	339	Hose Cut-Off Machine with 230V single phase motor
		Hose Cut-Off Machine with 3 HP motor 230V, 3 phase, 60 cycle
	24248	Scallop Cutting Blade (10" with 3/4" arbor size)

Optional Equipment

Part Number	Part Description
15960	Smooth Cutting Blade



Hose Cut-Off Machine

TH11-1

Hose Cut-Off Tool

Features

- Designed for quick, easy cutting of textile reinforced hose.
- Squarely cuts Push-Lok hose in sizes 1/4" through 3/4" ID

Specifications

- Dimensions: 8" long
- Shipping Weight: 0.3 lbs.



TH11-1 Hose Cut-Off Tool

226A

In-Ex® Tube Deburring Tool

A quick twist of the wrist will deburr either the OD or the ID of the tube end. Parker's In-Ex deburrer can be used on annealed steel, stainless steel, copper and aluminum, for tube sizes 1/8" to 1 5/8" OD

Part Number	Part Name and Description
226A	In-Ex Deburring Tool
226A Blades	Blade Set for 226A Tube Deburr Tool
208-FSS-BPD	Reamer for aircraft grade stainless steel tubing. Black finish.



226A In-Ex Deburr Tool

Dimensions and pressures are for reference only and are subject to change.

Flaring Tools

Rolo-Flair®

Manual Rotary Flaring Tool

(For soft metal tube)

Precision burnished 37° and 45° flares in tube sizes from 2 (1/8" OD) to 12 (3/4" OD) with an easy turn of the handle. For use with copper and aluminum alloys. A depth gauge allows proper positioning of tube for consistent flaring.

HOW TO USE: Open die, insert tube up to the gauge and clamp the tube in the die. Turn drive handle clockwise to flare, then counterclockwise for retracting flaring cone. Open clamping die by loosening wing nut and remove flared tube.

Part Number	Part Name and Description
212FB	Rolo-Flair for 37° flares (for 1/8", 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", OD)
945TH	Rolo-Flair for 45° flares (for 1/8", 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", OD)



Rolo-Flair

Combination Flarer

For 1/8", 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", OD tube.

The combination flarer is a 7-in-1 impact tool for flaring (37°) soft copper, aluminum and fully annealed steel tube, sizes 2 (1/8" OD) through 10 (5/8" OD). Maximum wall thickness: 1/8" to 3/8" is 15% of tube OD, 1/2" and larger is 10% of tube OD

HOW TO USE: Insert tube into proper flare hole and fasten with clamping screw. Set hardened-steel flaring punch in tube and form flare with a few sharp hammer blows. (Tube should not project more than 1/16" above top of block.)

Part Number	Part Description
210A	Combination Flarer



210A Combination Flarer

93-FB-BPD

For 3/16", 1/4", 5/16", 3/8" and 1/2" OD tubing.

Recommended for Bundy, GM and other brazed or welded soft steel tubing (wall thickness to .035"). Also makes single or double flares in soft copper or aluminum tubing. Forged steel yoke; swivel-type hard chrome-finished flaring cone.

Weight: 3 lbs.



93-FB-BPD

Dimensions and pressures are for reference only and are subject to change.

Hose Guards

Spring Guard and Armor Guard Selection Guide

Parker Spring Guard and Armor Guard are two products that prolong the life of hose lines that are exposed to rugged operating conditions. They distribute bending radii to avoid kinking in hose lines and protect hose from abrasion and deep cuts. Guards are constructed of steel wire and plated to resist rust.



Spring Guard (SG)



Armor Guard (AG)

Spring Guard/Armor Guard Application – Hose Type/Size

Spring Guard Part Number	Armor Guard Part Number	Inside Dia.	SS25UL, 201, 206, 221FR, 225, 235, 244, 266	213, 271, 285, 293	BXX, 302, 301LT, 304, 381, 421WC	AX, MX, 351TC, 351ST, 422, 424, 426, 431, 436, 451TC, 451ST, 471TC, 471ST, 472LT, 472TC, 482TC, 482ST	273	601, 604, 636, 646	701, 711, 721, 721TC, 721ST, 722LT, 722TC, 722TC, 772ST, 774, 787TC, 797TC	731, 781, 782TC, 782ST, 791TC, 792LT, 792TC, 792ST, F42, P35	801, 804, 821, 821FR, 831, 811HT, 836	811, 811HT, 881	275	761	Twin Line
SG-050	AG-050	0.5		-4											
SG-060	AG-060	0.6	-4	-5	-3	-4		-3,-4				-4,-5			
SG-066	AG-066	0.66	-5	-6	-4	-5	-4								
SG-072	AG-072	0.72	-6		-5	-6		-5							
SG-084	AG-084	0.84	-8	-8	-6	-8	-6	-6	-4,-6	-4		-8			
SG-097	AG-097	0.97	-10	-10	-8	-10	-8	-8	-8	-6		-10		-10	
SG-106	AG-106	1.06		-12	-10		-10			-8					
SG-113	AG-113	1.13	-12			-12		-10	-10			-12			
SG-122	AG-122	1.22			-12					-10				-12	-10
SG-131	AG-131	1.31	-16	-16				-12	-12	-12		-16	-12		
SG-155	AG-155	1.55	-20	-20	-16	-16		-16	-16			-16	-16	-12	6-6, 8-8
SG-161		1.61								-16					
SG-166		1.66												-20	
SG-182	AG-182	1.82	-24	-24		-20		-20	-20*			-20		-16	8-8
SG-209	AG-209	2.09			-20	-24			-20	-20				-24	
SG-232	AG-232	2.32	-32		-24					-24					-20
SG-292	AG-292	2.92													-40

Note: Spring Guard and Armor Guard are packaged in 10 ft. pieces.

Polyguard Strain Reliever

Temperature Range: -40°F to +225°F

Material: Flexible PVD

Color: Black (check for availability of other colors)



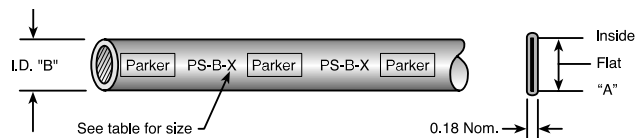
Part Number	SAE Flange Size inch	A inch	B inch	C inch	Maximum Working Pressure psi
50H-20	1-1/4	2.31	0.55	0.47	5,000
50H-24	1-1/2	2.75	0.66	0.53	5,000
50H-32	2	3.06	0.80	0.53	5,000

Note: For use with 4A, 4F, and 4N flanges.

Dimensions and pressures are for reference only and are subject to change.

Partek Sleeve Selection Guide (AS-B, AS-Y or PS)

Parker's Partek Nylon Protective Sleeving gives you tough hose abrasion protection two ways. First, per the ISO 6945 specification, Partek has a unique tubular weave nylon construction, Partek "AS" is strong enough to withstand greater than 200,000 abrasion cycles without wearing through the fabric at any location. Partek "PS" can withstand greater than 50,000 abrasion cycles. In addition, this weave also gives an exceptionally smooth interior wall, allowing rubber hose to move freely inside the sleeve. This provides easy installation and prevents any internal abrasion problems. Partek sleeving is available in either black or yellow and in sizes to fit most hydraulic hose. Partek, the quick and easy solution to hose protection in high-abrasion areas.



Note: The inside flat "A" dimension corresponds with the inside diameter "B" dimension. For example, AS-Y-13 flat surface "A" is 1.34 in. This offers a .86 in. inside diameter "B". Hose with a smaller OD can be specified for this size sleeve. Parker 201-5 hose has a .58 in. OD and can easily be inserted in the Partek AS-Y-13 Sleeve.

Temperature Range: -67°F to +248°F (-53°C to +120°C)



Partek Sleeve



Partek "PS" Sleeve

Partek Sleeve Application - Hose Type/Size

Partek Sleeve Black Part Number	Partek Sleeve Yellow Part Number	Partek PS Sleeve Black Part Number	Inside Diameter		SS25UL, 201, 206, 221FR, 225, 235, 244, 266	213, 271, 285, 293	BXX, 302, 301LT, 304, 381, 421WC	AX, MX, 351TC, 351ST, 422, 424, 426, 431, 436, 451TC, 451ST, 471TC, 471ST, 472LT, 472TC, 482TC, 482ST	273	601, 604, 636, 797TC	701, 711, 721, 721TC, 721ST, 722LT, 722LT, 722TC, 772TC, 774, 787TC, 797TC	731, 781, 782TC, 782ST, 791TC, 792LT, 792TC, 792ST, F42, P35	801, 804, 821, 821FR, 831, 811HT, 836, 881, 275, 761	811, 811HT, 275, 761	Twin Line	
			A	B												
AS-B-11	AS-Y-11		1.07	0.69	-4	-4		-3,-4								
AS-B-13	AS-Y-13	PS-B-13	1.34	0.86	-5, -6	-5, -6	-4,-5	-5,-6	-4	-4, -5			-5,-6			
AS-B-15	AS-Y-15	PS-B-15	1.66	1.06	-8	-8, -10	-6	-8	-6	-6	-6		-8			
AS-B-17	AS-Y-17	PS-B-17	1.92	1.22	-10	-12	-8,-10	-10	-8	-8	-8		-10		-10	
AS-B-19	AS-Y-19		2.12	1.35	-12			-12	-10	-10	-10	-8	-12		-12	-10
AS-B-22	AS-Y-22	PS-B-22	2.24	1.42	-16	-16	-12			-12	-12	-10	-16	-12	-16	
AS-B-27	AS-Y-27		2.55	1.63				-16				-12			-12	6-6, 8-8
AS-B-33	AS-Y-33	PS-B-33	2.85	1.81	-20	-20	-16			-16	-16	-16		-16	-16	8-8
AS-Y-35	PS-B-35		3.43	2.19	-24	-24		-20						-20	-20	-20
AS-B-37	AS-Y-37	PS-B-37	3.73	2.38			-20	-24			-20	-20			-24	
PS-B-39			4.12	2.63	-32	-32	-24				-24	-24		-24		
PS-B-45			4.53	2.88			-32	-32				-32		-32		
PS-B-47			4.9	3.13	-40	-40					-32					
AS-B-58			5.69	3.63	-48	-48								-48		
AS-B-64			6.18	4.00												

Note: 1. The dimensions shown are related to the hose outside diameter and may not fit over the fitting. For over the fitting applications, a larger size sleeve may be required.
 2. Cut lengths are available. Contact your local distributor for prices (www.parkerhose.com).

Dimensions and pressures are for reference only and are subject to change.



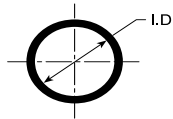
Firesleeve (FS-F) Selection Guide

Parker Firesleeve is a flame resistant sheath that protects the hose from extreme temperature conditions. Firesleeve easily slides over hoses and readily expands over fitting. It can be assembled with Parker FSC or properly sized wormgear clamp.

Construction: Braided fiberglass sleeve and an orange, bonded and seamless silicone rubber cover.

Specifications: Conforms to SAE Aerospace Standard 1072A Type 2A.

Temperature Range: -54°C to +260°C (-65°F to +500°F).



Note: The Firesleeve inside dimension (ID) must exceed the outside diameter (OD) of the hose and offer an allowance for easy hose insertion. For example, 201-16 has a 1.23 in. OD FS-S-24, with an ID of 1.46 in., is the suggested Firesleeve.

Note: Parker FSC Clamp fits all hoses up to 2 in. OD

Note: Parker HC Clamps (wormgear) are listed on page M29.



Firesleeve (FS-F)



FSC Clamp: Part Number: FSC
(One size fits all hoses up to 2 inch OD)

Proudly offering the following certifications and specifications

- UL 1441 Certified
- VW1 Flame Test Certified
- MSHA Certified for use in underground mines
- SAE AS1072E
- GL - Germanischer Lloyd Certified for 800°C for 30 minutes
- BS EN 373 Molten Splash Tested
- BS EN 388 Abrasion Tested
- BS EN ISO 6940 Flame Resistance Tested
- BS EN ISO 6530 Oil Resistance Tested
- BS 2576 Tensile Strength Tested
- DIN 54837 / 5510-2 Rail Vehicle Certified for Resistance to Combustibility
- DIN 5659-2 / 5510-2 Rail Vehicle Certified for Toxicity

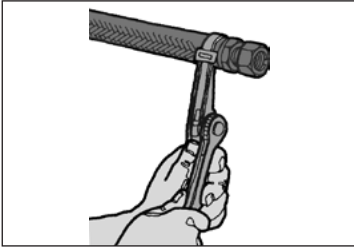
“FS-F” Application - Hose Type/Size

Part Number	Inside Dia.	SS25UL, 201, 206, 221FR, 225, 235, 244, 266	213, 271, 285, 293	BXX, 302, 301LT, 304, 381, 421WC	AX, MX, 351TC, 351ST, 422, 424, 426, 431, 436, 451TC, 451ST, 471TC, 471ST, 472LT, 472TC, 482TC, 482ST	273	601, 604, 636, 646	701, 711, 721, 721TC, 721ST, 722LT, 722TC, 772TC, 772ST, 774, 787TC, 797TC	731, 781, 782TC, 782ST, 791TC, 792LT, 792TC, 792ST, F42, P35	801, 804, 821, 821FR, 811, 831, 811HT, 836, 881	275	761	Twin Line	
FS-F-10	0.58	-4	-4	-3	-3,-4		-3			-4				
FS-F-11	0.65	-5	-5	-4	-5	-4	-4							
FS-F-12	0.71		-6	-5						-6				
FS-F-14	0.84	-6,-8	-8	-6	-6	-6	-5,-6			-8	-6			
FS-F-16	0.96		-10		-8	-8	-6	-4						
FS-F-18	1.08	-10	-12	-8,-10	-10		-8	-8		-10	-8			
FS-F-20	1.21	-12		-12	-12	-10	-10	-10	-8	-12	-10	-10		
FS-F-22	1.34							-12						
FS-F-24	1.46	-16	-16		-16				-12	-16	-12	-12	-10	6-6,6-8
FS-F-30	1.84	-24	-24					-16	-16	-16	-20	-16	8-8	
FS-F-38	2.34	-32	-32	-20,-24	-24			-20,-24	-20	-24	-24	-20		
FS-F-40	2.46								-24					

Note: See [page M25](#) for Firesleeve assembly instructions.

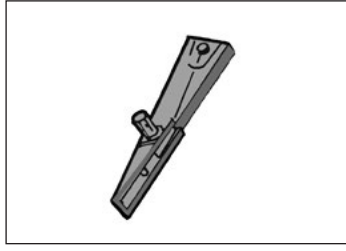
Dimensions and pressures are for reference only and are subject to change.

Firesleeve Selection Guide (Continued)



FSC Clamp

Used to attach firesleeve around socket on hose sizes with a 2" maximum OD.



FST Clamp Tool

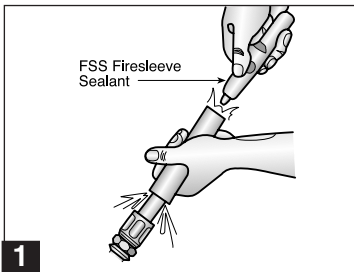
Part Number: FST-711617 Used to secure FSC clamp.



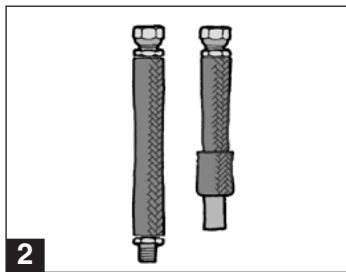
FSS Firesleeve Sealant

Keeps end of firesleeve from fraying – for neater, longer lasting installation.

Firesleeve Assembly Instructions



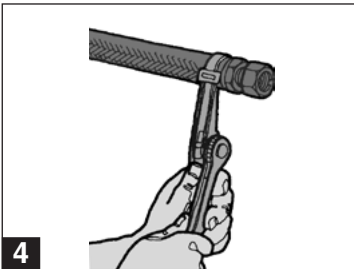
1. Assemble one end fitting on hose. Cut firesleeve to same length as hose. Cover approximately 1" of each end of firesleeve with FSS sealant and allow to dry.



2. Push firesleeve back from cut end of hose and assemble the second end fitting. Then pull firesleeve completely over both sockets.



3. Insert tail of FSC clamp into FST clamping tool.



4. Position clamp around middle of socket and tighten with tool. Bend end of band back over buckle. Repeat on other end. Repair any scuffs or abrasions in firesleeve with FSS sealant.

Dimensions and pressures are for reference only and are subject to change.

PolyGuard (HG) and ParKoil™ (PG) Selection Guide

- Shield hose from abrasion and cuts
- Minimize kinking
- Cannot rust or corrode
- Resist water, oil, gasoline, hydraulic fluid, and most solvents
- Ideal for bundling plastic tubing or hose lines
- Easy to install without removing hose lines; no clamps needed

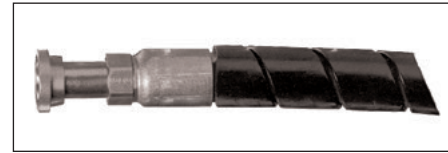
Heavy-duty polyethylene provides protection in rugged operating conditions. Great for bundling high-pressure hose lines.

Cut edges can be smoothed by applying heat.

CAUTION: This material will support combustion.

Color: Black

Temperature Range: 0°F to +200°F
(-17°C to +93°C)



PolyGuard



ParKoil™

PolyGuard (HG), ParKoil (PG) Application – Hose Type/Size

PolyGuard Part Number	ParKoil Part Number	Inside Dia.	SS25UL, 201, 206, 221FR, 225, 235, 244, 266	213, 271, 285, 293	BXX, 302, 301LT, 304, 381, 421WC	AX, MX, 351TC, 351ST, 422, 424, 426, 431, 436, 451TC, 451ST, 471TC, 471ST, 472LT, 472TC, 482TC, 482ST	273	601, 604, 636, 646	701, 711, 721, 721TC, 721ST, 722LT, 722TC, 722TC, 772TC, 772ST, 774, 787TC, 797TC	731, 781, 782TC, 782ST, 791TC, 792LT, 792TC, 792ST, F42, P35	801, 804, 821, 821FR, 831, 836	811, 811HT, 881	275	761	Twin Line
HG-075		0.75	-8, -10	-8, -10	-6, -8	-8, -10	-6, -8	-6, -8	-4, -6		-8, -10		-10		
HG-100		1.00	-12	-12	-10, -12	-12	-10	-10	-8, -10		-12	-12	-12	-10	
HG-125		1.25	-16	-16		-16		-12	-12	-12	-16		-16	-12	
HG-150		1.50	-20, -24	-20, -24	-16, -20	-20		-16, -20	-16	-16, -20		-16, -20	-20	-16	
HG-200		2.00	-32, -40	-32, -40	-24, -32	-24, -32			-20, -24, -32	-24, -32		-24, -32, -40	-24	-20	
HG-350		3.50	-48	-48								-48			
PG-038		0.38		-4		-3									
PG-050		0.50	-4, -5	-5	-3, -4	-4, -5	-4	-4			-4				
PG-062		0.62	-6	-6, -8	-5	-6					-6				
PG-075		0.75	-8	-10	-6	-8	-6	-6	-6		-8				
PG-088		0.88	-10	-12	-8	-10	-8	-8	-8		-10				
PG-100		1.00	-12		-10, -12	-12	-10	-10	-10	-10	-12		-10	-10	
PG-119		1.19	-16	-16				-12	-12	-12	-16	-12	-12		
PG-138		1.38	-20, -24	-20, -24	-16	-16, -20		-16	-16, -20	-16		-16, -20	-16, -20	-12, -16	6-6, 6-8
PG-188		1.88	-32, -40, -48	-32, -40, -48	-20, -24, -32	-24, -32			-24, -32	-20, -24, -32		-24, -32	-24	-20	8-8

Dimensions and pressures are for reference only and are subject to change.

Flat Steel Armor Guards

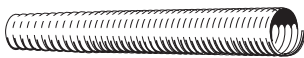
For Parflex Hose



Part Number	Guard ID (in.)	Standard Length (ft.)
55AG-3	0.47	25
55AG-4	0.55	25
55AG-5	0.61	25
55AG-6	0.67	25
55AG-8	0.83	25
55AG-12	1.09	10
55AG-16	1.35	10
58AG-12	1.18	10
58AG-16	1.51	10

Pre-made Spring Guards

(Plated, hard-drawn steel wire)



Part Number	Hose OD (ref) (in.)	Standard Length (in.)
55SSG-3	0.47	6
55SSG-4	0.55	6
55SSG-5	0.61	6
55SSG-6	0.68	6
55SSG-8	0.83	6
55SSG-12	1.09	7

Steel Spring Guards

(Plated, hard-drawn steel wire)

Use Spring Guards for protection from abrasion and extreme physical abuse.



Part Number	Guard ID (in.)	Standard Length (ft.)
55SG-3	0.47	25
55SG-4	0.55	25
55SG-5	0.61	25
55SG-6	0.67	25
55SG-8	0.83	25
55SG-12	1.09	10
55SG-16	1.35	10
58SG-12	1.18	10
58SG-16	1.51	10

Clear Vinyl Hose Guard



Part Number	Guard ID (in.)	Standard Length (ft.)
PV97-1	0.44	100
PV139-1	0.56	100
PV1611-1	0.68	100
PV2014-1	0.87	50
PV2420-1	1.25	50
PV3224-1	1.50	50

Dimensions and pressures are for reference only and are subject to change.

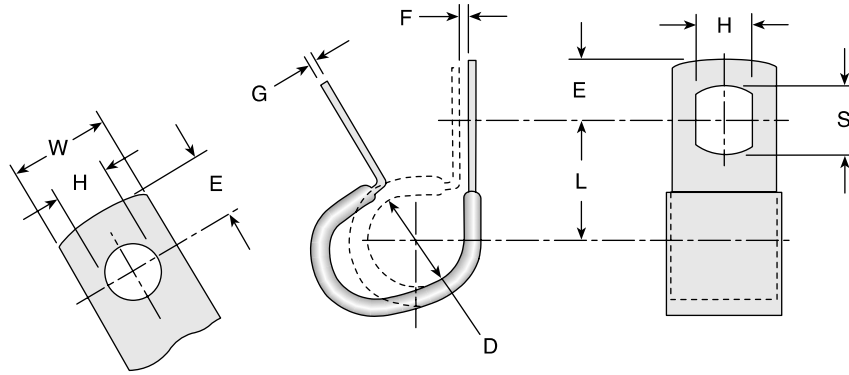
CL Clamp Selection Guide

Vinyl coated steel clamps provide hose support where long lengths are used. Provides neater installation of hose lines, minimizes hose chafing and prevents damage to hose.

Material: CR Steel with Zinc Plating

Coating: Black Vinyl Plastisol – 0,8 mm (0.03 inch) thick.

Temperature Range: -40°C to +107°C (-40°F to +225°F).



Part Number	D		H		L		W		E		F		G		S	
	±0,8 (mm)	±0.031 (inch)	±0,1 (mm)	±0.005 (inch)	±0,8 (mm)	±0.031 (inch)	±0,25 (mm)	±0.01 (inch)	±0,4 (mm)	±0.015 (inch)	±0,8 (mm)	±0.031 (inch)	±0,1 (mm)	±0.004 (inch)	±0,5 (mm)	±0.020 (inch)
CL-6	7,90	0.312	10,30	0.406	17,45	0.687	19,05	0.750	11,10	0.437	0,80	0.031	0,80	0.032	12,70	0.500
CL-7	9,50	0.375	10,30	0.406	18,25	0.718	19,05	0.750	11,10	0.437	1,55	0.062	0,80	0.032	12,70	0.500
CL-8+	11,10	0.437	10,30	0.406	19,05	0.750	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-9	12,70	0.500	10,30	0.406	19,85	0.781	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-10+	14,25	0.562	10,30	0.406	20,60	0.812	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-11	15,90	0.625	10,30	0.406	21,40	0.843	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-12	17,45	0.687	10,30	0.406	22,20	0.875	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-13	19,05	0.750	10,30	0.406	23,00	0.906	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-14	20,60	0.812	10,30	0.406	23,80	0.937	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-15+	22,20	0.875	10,30	0.406	24,60	0.968	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-16	23,80	0.937	10,30	0.406	25,40	1.000	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-17	25,40	1.000	10,30	0.406	26,20	1.031	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-18+	26,95	1.062	10,30	0.406	26,95	1.062	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-19	28,60	1.125	10,30	0.406	27,75	1.093	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-20+	30,20	1.188	13,50	0.531	31,75	1.250	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-21	31,75	1.250	13,50	0.531	32,55	1.281	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-22+	33,30	1.312	13,50	0.531	33,30	1.312	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-23	34,90	1.375	13,50	0.531	34,10	1.343	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-24+	36,50	1.437	13,50	0.531	34,90	1.375	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-25	38,10	1.500	13,50	0.531	35,70	1.406	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-26+	39,65	1.562	13,50	0.531	36,50	1.437	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-27+	41,25	1.625	13,50	0.531	37,30	1.468	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-29	44,45	1.750	13,50	0.531	38,90	1.531	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-31+	47,65	1.875	13,50	0.531	40,45	1.593	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-33	50,80	2.000	13,50	0.531	42,85	1.687	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-36+	55,55	2.187	13,50	0.531	46,00	1.812	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-37	57,15	2.250	13,50	0.531	46,00	1.812	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-38+	58,70	2.312	13,50	0.531	49,20	1.937	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-41+	63,50	2.500	13,50	0.531	50,80	2.000	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-43	66,65	2.625	13,50	0.531	58,70	2.312	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625

+ Non-standard. Please contact Parker Hannifin Hose Products Division.

Dimensions and pressures are for reference only and are subject to change.

HC, 88HC-H and 88DB Clamp Selection Guide

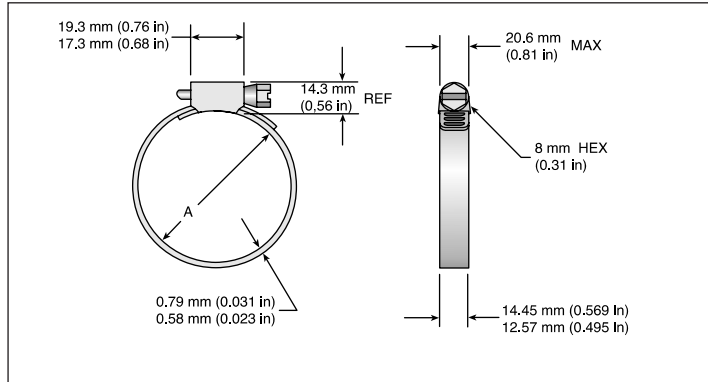
The Parker HC Clamp is a stainless steel worm gear clamp designed for low pressure industrial hose applications.

Material: Stainless steel

Specifications: SAE J1508, Type F and Type HD

HC Hose Clamp Table

Part Number	Size (SAE)	"A" Clamp Diameter			
		Minimum		Maximum	
		mm	inch	mm	inch
HC-6	-8	12	0.48	25	1.00
HC-8	-10	13	0.50	28	1.12
HC-10	-12	13	0.50	32	1.25
88HC-12	-16	19	0.75	38	1.50
88HC-16	-20	19	0.75	44	1.75
88HC-20	-24	25	1.00	51	2.00
88HC-24	-28	33	1.31	57	2.25



88HC

Hose Clamp (Worm Gear)

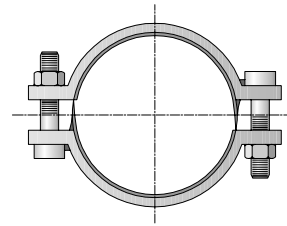
Part Number	Hose ID inch
88HC-12	3/4
88HC-16	1
88HC-20	1-1/4
88HC-24	1-1/2
88HC-32	2



88DB

Heavy Hose Clamp (Double Bolt)

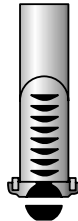
Part Number	Hose ID inch
88DB-12	3/4
88DB-16	1
88DB-20	1-1/4
88DB-24	1-1/2
88DB-32	2



88HC-H

Hose Clamp (High Torque Worm Gear)

Part Number	Hose ID inch
88HC-16C	3/4
88HC-16H	1
88HC-20H	1-1/4
88HC-24H	1-1/2
88HC-32H	2



Dimensions and pressures are for reference only and are subject to change.



Protection Shields Selection Guide (HP, HT, and HP-B)

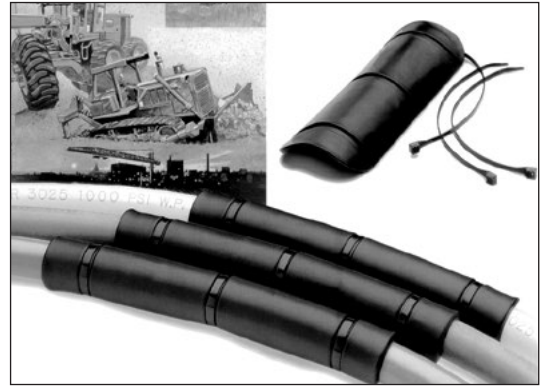
Prevent hose abrasion while extending your hose life. Parker Hose Protection Shields extend hose life by protecting the hose from abrasion that occurs when hose rubs against other hose, metal or concrete. Parker hose shields are resistant to oil, lubricants, gasoline, most solvents and can withstand ambient temperatures from -40° to +300° F. Easily installed and secured by cable ties without disconnecting any hose lines. Use with hose from 1/4" to 2" ID.

- Eliminate hose abrasion on concrete, metal or any rough surface.
- Guard against hose deterioration on mobile hydraulic equipment.
- Let Parker fill all your hydraulic and pneumatic hose product needs.

Hose Protector Shields are a fast and extremely cost effective way to isolate fluid lines from direct contact with other lines, components or structural members. They're available in 4-inch, 6-inch and 8-inch lengths and the width can be trimmed to satisfy a variety of situations.

These flexible protectors simply clamp around the hose and are securely held in place by nylon cable ties which are included. The cable ties are recessed in molded grooves to protect them from abrasion. You don't need to disconnect a line to install a Parker Hose Protector Shield the way you do with a continuous tubular sleeve. Just wait until the installation is up and running to see exactly where contact needs to be prevented.

Parker Hose Protector Shields are available in bulk quantities and in convenient assortments in 4", 6" and 8" sizes. Cable ties are included with all protectors and are also available in bulk.



Counter Display

Hose Shields		Tie Wraps	
Part Number	Description	Part Number	Description
HP-B-13X18-KIT	2 ea. HP-B-13 RFL	HT-12-KIT	30 ea. HT-12 Tie Wraps
	2 ea. HP-B-15 RFL	HT-16-KIT	30 ea. HT-16 Tie Wraps
	4 ea. HP-B-18 RFL	HT-22-KIT	15 ea. HT-22 Tie Wraps

20 Hose Protectors and 60 Tie Wraps for each size are in point of purchase display box.

Part Number	Description
HP-B-13-RFL	10 ea. HP-B-13 Hose Protectors (4"). 30 ea. HT-12 Tie Wraps in a sealed plastic bag.
HP-B-15-RFL	10 ea. HP-B-15 Hose Protectors (6"). 30 ea. HT-16 Tie Wraps in a sealed plastic bag.
HP-B-18-RFL	5 ea. HP-B-18 Hose Protectors (8"). 15 ea. HT-22 Tie Wraps in a sealed plastic bag.

Contact your authorized Parker Fleet Products Distributor for pricing and delivery information.

Note: Parker Hose Protector Shield products are intended to prevent damage. They are not suitable as patches or repairs for lines which are already damaged or worn beyond safe use standards.

Dimensions and pressures are for reference only and are subject to change.

Sealants & Lubricants

O-Ring Lubricants

Parker O-Lube

O-Lube is an outstanding general-purpose grease intended for use with O-rings and other seals in hydraulic and pneumatic systems. The temperature range is from -29°C to +82°C (-20°F to +180°F).

Part Number	Part Name and Description
OLUBE-884-4-TFD	O-ring Lubricant

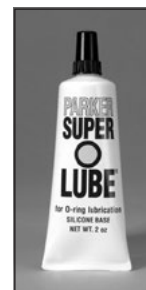


Parker O-Lube

Parker Super O-Lube

Super O-Lube is an all-purpose O-ring lubricant. It is not a grease, but rather a high-viscosity silicone oil. The temperature range is -54°C to +204°C (-65°F to +400°F).

Part Number	Part Name and Description
SLUBE-884-2-TFD	O-ring Lubricant



Parker Super O-Lube

Thread Sealants

Thread sealants seal and secure metal pipes and fittings by filling the space between the threaded metal parts. Thread sealants harden to prevent leakage caused by vibration loosening, solvent evaporation, damaged threads and temperature cycling. Designed for low and high pressure applications, thread sealants seal quickly for on-line low pressure testing. When fully cured, they seal to the burst strength of most systems. Thread sealants are easily removed with basic hand tools. Thread sealants can be used on pipe thread fittings.

Threadmate™ Sealant/Lubricant

Threadmate™ is an extreme-duty lubricant developed to reduce galling during the assembly of pipe thread fittings. Threadmate™ promotes reliable sealing of pipe threads, even at high pressure. Recommended for use on stainless steel pipe threads.

Part Number	Part Description
MTM04T-TFD	4 oz. Tube



Threadmate Sealant/Lubricant

Loctite Thread Sealant 567

Formulated specifically for metal tapered pipe thread fittings. PST 567 cures rapidly to provide immediate low pressure sealing. Its controlled lubricity prevents galling and it protects mated thread areas from rust and corrosion.

Part Number	Part Description
56707	6 ml Tube
56747	50 ml Tube



Loctite Thread Sealant 567

Application: Stainless steel tapered pipe threads.

Temperatures range: -65°F to +400°F.

Dimensions and pressures are for reference only and are subject to change.

Loctite Thread Sealant 545

Designed for both hydraulic and pneumatic systems, 545 contains no fillers or particles which could contaminate system fluids, foul valves, or clog fine filters and screens.

Applications: Steel and brass tapered pipe threads.

Temperature range: -65°F to +300°F.

Part Number	Part Description
54505	.5 ml Capsule
54531	50 ml Bottle



Loctite Thread Sealant 545

Pipe Thread Sealing Cord

Loctite 55 Pipe Sealing Cord is a general purpose threaded pipe sealant. It is a non-curing, coated multifilament cord that seals fluids and gases in pipe threads up to 4". Sealant temperature ranges from -65°F to +300°F.

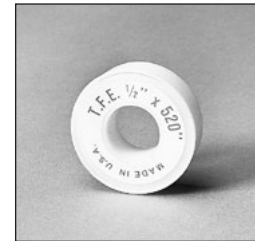
Part Number	Part Name and Description
35082	Pipe Thread Sealing Cord, 5,700 in.



Pipe Thread Sealing Cord

Thread Sealant Tape

Part Number	Part Description
PTFE Tape	1/2" x 520" Spools



PTFE Tape

Threadlockers

Thread lockers perform by filling the space between threaded metal parts and hardening to form a tough, adhesive bond and seal. Threadlockers seal the threads against leakage and prevent rust and corrosion. Threadlockers can be used on fasteners. Some threadlockers require extra effort or special tools for removal.

Loctite Primer N

Loctite 7649 Primer N decreases the set-up time of Loctite threadlockers and increases breakaway torque on most fastener surfaces. It allows for cold weather application.

Applications: Use with Loctite threadlockers, thread sealants and retaining compounds.

Part Number	Part Description
21347	25 g Aerosol
21348	4.5 oz. Aerosol



Loctite 7649 Primer N

Dimensions and pressures are for reference only and are subject to change.

Threadlocker 242

All-purpose, medium strength threadlocker is ideal for all nut and bolt applications. It eliminates the need for stocking expensive locknuts and washers. Its other advantages include locking and sealing while preventing parts loosening during vibration, protecting threads from corrosion, and easy disassembly with hand tools.

Applications: All fastener applications.

Temperature range: -65°F to +300°F.

Part Number	Part Description
24221	10 ml Tube
24231	50 ml Tube



Loctite Threadlocker 242

Loctite High Strength Threadlocker 271

High strength threadlocker for heavy-duty applications is especially well-suited for permanently locking studs and press fits. It replaces set screw and snap rings and locks against vibration loosening.

Applications: Permanent fastener requirements.

Temperature range: -65°F to +300°F.

DO NOT USE THIS PRODUCT WITH PARKER TUBE FITTINGS. RECOMMENDED ONLY FOR FASTENER APPLICATIONS.

Part Number	Part Description
27121	10 ml Tube
27131	50 ml Tube



Loctite High Strength Threadlocker 271

Thread Identification

MIK-1

Thread Identification Kit

The Thread Identification Kit can be used to identify metric, BSP, SAE and NPT threads, as well as SAE flanges. It contains thread gauges, calipers, thread profiles, and an instruction booklet that details most thread forms and connection styles found in fluidpower systems worldwide.

Part Number	Part Name and Description
MIK-1	Thread Identification Kit – Includes basic unit, gauge adapter, Hydra-Tool connector,



Thread Identification Kit

Portboards

The Portboards can be used for identification of ISO, SAE, BSP and NPT ports and port threads. They are machined with female threads for quick and easy identification by screwing in the male port end.

Part Number	Part Name and Description
Portboard A	Portboard A (SAE Straight Thread -2 through -32 and NPT 1/8 through 1 1/2)
Portboard B	Portboard B (Metric 8mm through 48mm and BSP 1/8 through 1 1/2)



Portboard A



Portboard B

Dimensions and pressures are for reference only and are subject to change.

Wrenches

Par-Lok® Wrench

360° Snap-action ratchet wrench for hex sizes from 3/8" to 2 1/4" across the flats and metric from 10mm to 50mm. Inch sizes meet government specifications and are listed as NSN-5120-00-474-7227. Wrenches are covered by a limited lifetime warranty. Damage due to over-torque is not covered by warranty.

Install Tube Fittings Faster

Easy access ratchet wrench speeds fittings installation in tight locations. Rugged, snap-action jaws can be opened over tube lines, locked onto fitting hex and ratcheted within 1/8 turn. Full six point contact prevents fitting distortion common with wrench slippage. Ideal for tube line installations where compact runs require multiple fittings make-up, disassembly and remakes.

Specifications

Par-Lok wrenches are available individually or in six different kit combinations. Par-Lok jaws are constructed from drop-forged, high carbon steel material with a black conversion coat finish. Par-Lok handles are made from heavy gauge steel material, heat treated and with a corrosion resistant black finish. Solid stainless steel rivets and tempered jaw springs are designed into every wrench for maximum strength.



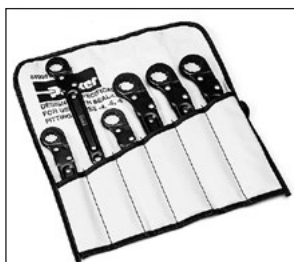
Par-Lok Wrench

Inch Hex Size Par-Lok Wrenches

Part Number	Hex Size (in.)	Max. Torque (ft.-lbs.)
860062-6	3/8	24
860062-7	7/16	27
860062-8	1/2	32
860062-9	9/16	43
860062-10	5/8	65
860062-11	11/16	81
860062-12	3/4	92
860062-13	13/16	108
860062-14	7/8	135
860062-15	15/16	152
860062-16	1	162
860062-18	1 1/8	206
860062-20	1 1/4	238
860062-22	1 3/8	282
860062-24	1 1/2	314
860062-26	1 5/8	346
860062-30	1 7/8	364
860062-32	2	373
860062-36	2 1/4	391



Par-Lok Wrench Kit



Seal-Lok Wrench Kit

Metric Hex Size Par-Lok Wrenches

Part Number	Hex Size (mm)	Max. Torque (ft.-lbs.)	Max. Torque (N-m)
860063-10	10	26	35
860063-11	11	27	37
860063-12	12	31	42
860063-13	13	33	45
860063-14	14	42	57
860063-16	16	65	88
860063-17	17	79	107
860063-19	19	92	125
860063-21	21	110	149
860063-22	22	131	178
860063-24	24	154	209
860063-27	27	74	100
860063-30	30	74	100
860063-32	32	125	170
860063-36	36	125	170
860063-41	41	229	310
860063-46	46	243	330
860063-50	50	243	330



Triple-Lok and Ferulok Wrench Kit

Inch Hex Size Par-Lok Wrench Kits

Part Number	Part Name and Description
860062-KIT	Full kit of sizes 3/8" to 1"
860062-KIT2	Full kit of sizes 1 1/8" to 2 1/4"
860062-LKIT	Seal-Lok Wrench Kit (5/8", 11/16", 3/4", 13/16", 7/8", 15/16")
860062-XUKIT	Triple-Lok and Ferulok Wrench Kit (9/16", 11/16", 7/8", 1", 1 1/4")

Metric Hex Size Par-Lok Wrench Kits

Part Number	Part Name and Description
860063-KIT	Full kit of sizes 10mm to 22mm
860063-KIT2	Full kit of sizes 27mm to 50mm

Dimensions and pressures are for reference only and are subject to change.

Blow Guns

Controlled Pressure Blow Guns

Parker Controlled Pressure Blow Guns meet OSHA requirements (section 29 CFR 1910.242 paragraph b), and directive #100-1. "Compressed air shall not be used for cleaning purposes except where reduced to less than 30 psi, and then only with effective chip guarding and personal protective equipment."

Parker Controlled Pressure Blow Guns have a black epoxy coated zinc body and vented nozzles to prevent pressure build-up when dead ending occurs up to 150 psi.

410-S

Parker Controlled Pressure Blow Guns features thumb lever valve actuator and brass nozzle. Inlet port is 1/4" NPT.

410-SV

Parker Venturi Nozzle Controlled Pressure Blow Gun with thumb lever valve and large venturi side ports for high volume flow. Inlet port is 1/4" NPT.

415-S

Parker Controlled Pressure Blow Guns features push button valve actuator and brass nozzle. Inlet port is 1/4" NPT.

400-S-TIP

Blow Gun Replacement Tip

Full Pressure Blow Guns

The following Parker Blow Guns must have a pressure regulator setting below 30 psi to conform to OSHA safety requirements 29 CFR 1910.242 Paragraph b.

410

Parker two way thumb lever valve has a zinc body with 1/4" NPT inlet and 1/8" NPSF outlet.

Note: Standard Gun without nozzle.

410-N

Parker thumb lever style Blow Gun features a zinc body, brass nozzle, and 1/4" NPT female inlet.

415-N

Parker Blow Gun features a push button style actuator, zinc body with a brass nozzle and 1/4" NPT female inlet.

Specifications		
Part Number	Max. Pressure PSI	Wt. (Lb) P/Piece
410-S	150	.50
410-SV	150	.53
415-S	150	.48



410-S



410-SV



415-S



400-S-TIP

Specifications		
Part Number	Max. Pressure Psi	Wt. (Lb) P/Piece
410	150	.48
410-N	150	.51
415-N	150	.49



410



410-N



415-N

Dimensions and pressures are for reference only and are subject to change.

BG Series Blow Guns

Made from impact resistant plastic, BG Series blow guns are durable and versatile. Extended nozzles allow air to be directed where it is required. The pistol grip trigger allows greater control over the amount of air delivered. Combined, these two features provide superior performance in a light weight, ergonomically designed package.

Nozzles are available in short and extended versions and most models meet OSHA directives on the use of compressed air for cleaning purposes. OSHA directive #100-1 states that "when dead ending occurs a static pressure at the main orifice shall not exceed 30 psi." For those blow guns that do not meet this requirement, OSHA requires that "compressed air shall not be used for cleaning purposes except where reduced to less than 30 psi, and then only with effective chip guarding and personal protective equipment" (section 29 CFR 1910.242 paragraph b). Please refer to the blow gun descriptions below for compatibility with OSHA directive #100-1.

Nozzle configurations are designed for maximum flexibility. Applications with special requirements may find the BG443-NBL with a 1/8" NPT fitting convenient for adapting existing nozzles or extra-long extensions. For information on specials or made-to-order blow gun nozzles, please contact the Quick Coupling Division.

- Easy to control variable flow pistol grip trigger.
- Nozzles available that meet OSHA requirements.
- Lightweight ergonomical design.
- Bodies are constructed of impact resistant plastic.

Rated Pressure (PSI): 175

Temperature Range: To 120°F

Inlet Port: 1/4" NPTF

Nomenclature	
Example: BG442-SBL	Attribute
BG	BG Series blow gun
4	Inlet port in 16ths
	Nozzle Style
	41 - Extended
42	42 - Extended (OSHA)
	43 - 1/8" FNPT
	44 - Short (OSHA)
	Meets OSHA requirements
S	S - Yes
	N - No
BL	Color
	BL - Black

BG441-NBL

BG Series Blow Gun

Part No.	Nozzle	Meets OSHA Requirements
BG441-NBL	Extended	No



BG441-NBL

BG442-SBL

BG Series Blow Gun

Part No.	Nozzle	Meets OSHA Requirements
BG442-SBL	Extended	Yes



BG442-SBL

BG443-NBL

BG Series Blow Gun

Part No.	Nozzle	Meets OSHA Requirements
BG443-NBL	1/8" Female NPT	No



BG443-NBL

BG444-SBL

BG Series Blow Gun

Part No.	Nozzle	Meets OSHA Requirements
BG444-SBL	Vortec	Yes



BG444-SBL

Dimensions and pressures are for reference only and are subject to change.

Check Valves

2600 Series

Swing Type, Low Pressure and Lightweight

Constructed of lightweight aluminum, the 2600 Series Swing Check Valve has a spring-loaded, trapdoor style valve. The valve opens when system pressure approaches 1/2 psi to permit full flow with low pressure drop. As system pressure is relieved, the valve closes, retaining fluids upstream.

Parker's 2600 Series are in-line check valves designed especially for diesel and gasoline engine fuel lines. They are also used for externally mounted oil filters, and coolers, as well as transmission fluid lubrication lines. With a maximum of 1/2 psi cracking pressure, these Swing Check Valves are useful in most low pressure air, liquid, or gas systems.

Features

- Lightweight, corrosion-resistant aluminum construction.
- Available with 1/4" or 3/8" NPTF ports.
- Standard Nitrile or Fluorocarbon seals.
- 1/2 PSI maximum crack pressure.
- Trapdoor style valve permits full flow with low pressure drop.

Part Number	Thread	Dimensions	
		Length (mm)	Wrench Flats (in)
2600	1/4 - 18NPTF	2.06 (52)	1-1/16
2676	1/4 - 18NPTF	2.06 (52)	1-1/16
2650	3/8 - 18NPTF	2.12 (54)	1-1/16
2625	3/8 - 18NPTF	2.12 (54)	1-1/16



Specifications

Rated Pressure: 250 psi max

Crack Pressure: 1/2 psi max

Weight: 0.08 lbs

Temperature Range:

Nitrile: -40° to 200°F (-40° C to 93° C)

Fluorocarbon: -40° to 400°F (-40° C to 204° C)

Max Leakage: 5 cc/24 hours at 28" head

Rated Flow: 6 gpm (based on 3/8" hose size)

DT Series

Metal Seal

DT-MFMF

Male Flare 37° JIC Inlet to Male Flare 37° JIC Outlet

Part Number	Valve Size	Inlet Port Thread	Outlet Port Thread	Wrench Flats	** Std Crack Pressure (psi)
DT-370-MFMF-**	3/8	9/16-18 UNF	9/16-18 UNF	.75	1, 5, 65
DT-500-MFMF-**	1/2	3/4-16 UNF	3/4-16 UNF	.88	5, 65
DT-620-MFMF-**	5/8	7/8-14 UNF	7/8-14 UNF	1.06	5
DT-750-MFMF-**	3/4	1-1/16 - 12 UN	1-1/16-12 UN	1.25	1, 5, 65
DT-1000-MFMF-**	1	1-5/16 - 12 UN	1-5/16-12 UN	1.50	5, 65
DT-1250-MFMF-**	1-1/4	1-5/8 - 12 UN	1-5/8-12 UN	1.88	1, 5



DT-MFMO

Male Flare 37° JIC Inlet to Male O-Ring Boss Outlet

Part Number	Valve Size	Inlet Port Thread	Outlet Port Thread	Wrench Flats	** Std Crack Pressure (psi)
DT-370-MFMO-**	3/8	9/16-18 UNF	9/16-18 UNF	.75	1, 5, 65
DT-500-MFMO-**	1/2	3/4-16 UNF	3/4-16 UNF	.88	5, 65
DT-620-MFMO-**	5/8	7/8-14 UNF	7/8-14 UNF	1.06	5
DT-750-MFMO-**	3/4	1-1/16 - 12 UN	1-1/16 - 12 UN	1.25	1, 5, 65
DT-1000-MFMO-**	1	1-5/16 - 12 UN	1-5/16 - 12 UN	1.50	5, 65
DT-1250-MFMO-**	1-1/4	1-5/8 - 12 UN	1-5/8 - 12 UN	1.88	1, 5



Dimensions and pressures are for reference only and are subject to change.

Diagnostic Products

Diagnostic Products — SensoControl®

Serviceman Plus™

Diagnostic Meter Kits



Part Number	PDS4 (CAN version) Kit Contents:
SCM-155-2-05	Serviceman Plus (CAN)
CD 4078	CD with SensoWin, documentation and instructions
SCC-210	Case
PD XXXXX-XXXX-CAN	CAN Transducers (1 or 2)
SCK-401-05-4F-4M	CAN Transducer Connection Cable (1 or 2 based on transducer #)
SCSN-440	Power Supply
SCK-401-0.3-Y	CAN Y cable (only included with 2 transducer kit)
SCK-401-R	Terminator Resistor
SCK-USB-MINISTICK	Nano USB Stick - 1 GB
SCK-315-02-36	USB Connection Cable - 1 meter

Part Number	PDS4 (Analog version) Kit Contents:
SCM-155-0-02	Serviceman Plus (Analog)
CD 4078	CD with SensoWin, documentation and instructions
SCC-210	Case
PD XXXXX-XXXX	Analog Transducers (1 or 2)
SCK-102-03-02	Analog Transducer Connection Cable (1 or 2 based on transducer #)
SCSN-440	Power Supply
SCK-USB-MINISTICK	Nano USB Stick - 1 GB
SCK-315-02-36	USB Connection Cable - 1 meter

Code for Ordering Kits:

PDS4 - X - XX - XX - XXX

Code Description

CAN	CAN bus technology
Blank	Analog

Transducer range – Pick one or two

Code	Pressure (psi)	Color
01	-14.5 – 220	Blue
06	0 – 870	Green
15	0 – 2175	Yellow
40	0 – 5800	Orange
60	0 – 8700	Red
00	No transducers	

Coupling Style

Code	Description
2	PD Style
4	PDP Style
6	EMA 3 Style (Female)
0	No transducers

Additional Transducers – Code for Ordering Separately:

PD XXXXX - XXXX - XXX

Code Description

CAN	CAN bus technology
Blank	Analog

Pressure Range

Code	Pressure (psi)	Color
0100	-14.5 – 220	Blue
0600	0 – 870	Green
1500	0 – 2175	Yellow
4000	0 – 5800	Orange
6000	0 – 8700	Red

Coupling Style

Code	Description
TA	PD Style
PTA	PDP Style
TEMA3	EMA 3 Style (Female)

Flow Sensors – Code for Ordering Separately:

SCFT- XXXX - XXX - XXX

Code Description

CAN	CAN bus technology
Blank	Analog

Coupling Style

Code	Description
PD	PD Style
PDP	PDP Style
EMA	EMA 3 Style

Flow Range

Code	Flow Rate (gpm)
0004	0.2 – 4 (1 – 15 l/min)
0116	1 – 16 (4 – 60 l/min)
0380	3 – 80 (10 – 300 l/min)
5160	5 – 160 (20 – 600 l/min)

Dimensions and pressures are for reference only and are subject to change.



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ServiceJunior™

Digital Pressure Gauge

The Parker ServiceJunior is an integrated digital pressure gauge with minimum/maximum memory capability.

Capabilities:

- Hand held digital pressure gauge
- Measure and Display Pressure

Features:

- Easy operation
- Backlit display
- User-adjustable pressure units
- Min/Max memory
- Battery life indicator applications
- Ranges for hydraulics and pneumatics
- Scanning rate of 10ms
- Fluid temperature: -4°F to 176°F
- Colored covers correspond with pressure ranges for easy identification

Cover Color	Description
Blue	-14.5 to 230 PSI (-1 to 16 bar)
Green	0 to 1500 PSI (0 to 100 bar)
Orange	0 to 5800 PSI (0 to 400 bar)
Red	0 to 8700 PSI (0 to 600 bar)



Part Numbers and Specifications

ServiceJunior with PD Coupler	ServiceJunior with EMA3 Coupler	ServiceJunior with 1/4"NPT Port	Measuring Range	Overload Pressure (psi)	Resolution (psi)	Accuracy
SCJR-0250-PD	SCJR-0250-EMA	SCJR-0250-4MP	-14.5 to 230 PSI (-1 to 16 bar)	580	0.1	0.5% FS
SCJR-1500-PD	SCJR-1500-EMA	SCJR-1500-4MP	0 to 1500 PSI (0 to 100 bar)	2,900	1	
SCJR-5800-PD	SCJR-5800-EMA	SCJR-5800-4MP	0 to 5800 PSI (0 to 400 bar)	11,600	1	
SCJR-8700-PD*	SCJR-8700-EMA**	SCJR-8700-4MP	0 to 8700 PSI (0 to 600 bar)	17,400	1	

* PD Couplers rated to 6,000 PSI max

** EMA3 Couplers rated to 9,000 PSI max

Accessories

Part Number	Description
PD240	PD Series Diagnostic Coupler
SCA-7/16-EMA-3	7/16 - 20UNF-2B female to M16X2.0 EMA3 female swivel
SCJA-1/4	7/16 - 20UNF-2B female to 1/4" NPT male adapter
PDH-19	19" PD Hose extension to be used with PD nipple
PDH-32	32" PD Hose extension to be used with PD nipple
SMA3-400	16" (400 mm) Hose assembly for EMA M16X2.0 interface
SCC-110	Storage case for one gauge and diagnostic adapters
SCC-300	Storage case for three gauges and diagnostic adapters

Dimensions and pressures are for reference only and are subject to change.



PD Style Kits

SCJR1-KIT-PD

1	ServiceJunior Gauge Range: 0 to 5800 psi (0 to 400 bar)
6	PD style JIC Tee Fittings 1/4 through 1 inch sizes
6	PD style ORFS Tee Fittings 1/4 through 1 inch sizes
1	PD style Whip Hose 32 inch (800 mm) length
1	Case - includes 3 plastic storage compartments

SCJR2-KIT-PD

1	ServiceJunior Gauge: Range: 0 to 1500 psi (0 to 100 bar)
1	ServiceJunior Gauge: Range: 0 to 5800 psi (0 to 400 bar)
6	PD style JIC Tee Fittings 1/4 through 1 inch sizes
6	PD style ORFS Tee Fittings 1/4 through 1 inch sizes
2	PD style Whip Hoses 32 inch (800 mm) length
1	Case - includes 3 plastic storage compartments

SCJR3-KIT-PD

1	ServiceJunior Gauge: Range: -14.5 to 230 psi (-1 to 16 bar)
1	ServiceJunior Gauge: Range: 0 to 1500 psi (0 to 100 bar)
1	ServiceJunior Gauge: Range: 0 to 5800 psi (0 to 400 bar)
6	PD style JIC Tee Fittings 1/4 through 1 inch sizes
6	PD style ORFS Tee Fittings 1/4 through 1 inch sizes
3	PD style Whip Hoses 32 inch (800 mm) length
1	Case - includes 3 plastic storage compartments

EMA Style Kits

SCJR1-KIT-EMA

1	ServiceJunior Gauge: Range: 0 to 5800 psi (0 to 400 bar)
6	EMA style JIC Tee Fittings 1/4 through 1 inch sizes
6	EMA style ORFS Tee Fittings 1/4 through 1 inch sizes
1	EMA style Whip Hose 32 inch (800 mm) length
1	EMA style Union female to male adapter
1	Case - includes 3 plastic storage compartments

SCJR2-KIT-EMA

1	ServiceJunior Gauge: Range: 0 to 1500 psi (0 to 100 bar)
1	ServiceJunior Gauge: Range: 0 to 5800 psi (0 to 400 bar)
6	EMA style JIC Tee Fittings 1/4 through 1 inch sizes
6	EMA style ORFS Tee Fittings 1/4 through 1 inch sizes
2	EMA style Whip Hoses 32 inch (800 mm) length
2	EMA style Unions female to male adapter
1	Case - includes 3 plastic storage compartments

SCJR3-KIT-EMA

1	ServiceJunior Gauge: Range: -14.5 to 230 psi (-1 to 16 bar)
1	ServiceJunior Gauge: Range: 0 to 1500 psi (0 to 100 bar)
1	ServiceJunior Gauge: Range: 0 to 5800 psi (0 to 400 bar)
6	EMA style JIC Tee Fittings 1/4 through 1 inch sizes
6	EMA style ORFS Tee Fittings 1/4 through 1 inch sizes
3	EMA style Whip Hoses 32 inch (800 mm) length
3	EMA style Unions female to male adapter
1	Case - includes 3 plastic storage compartments

Dimensions and pressures are for reference only and are subject to change.

Serviceman Plus™

Diagnostic Meter

The Serviceman Plus is an extremely robust, portable and easy-to-use measuring device. With a scan rate of 1 ms and the ability to read pressure, flow, temperature and RPM, it is versatile for use with mobile and industrial systems.

Data can be conveniently saved to a removable nano USB stick or transferred through USB interface to a PC for further analysis with SensoWin software.

The Serviceman Plus is available in two designs. One with two inputs for analog sensors and the other with CAN interface for up to three CAN sensors.

Capabilities:

- Hand held diagnostic meter
- Measure and Display: Pressure, Flow, Rational Speed, and Temperature

Features:

- Automatic sensor recognition eliminates troublesome and confusing set up
- Large back-lit display MIN/MAX memory and differential measurements
- Increased memory capacity with nano USB stick
- USB interface to PC for convenient analysis and documentation
- Robust design with IP67 rated protection
- Rear support for free-standing operation
- Scan rate of 1 ms

Serviceman Plus Technical Data

Interfaces

- USB device: Online data transfer between device and PC via SensoWin Software: measured value transfer: ACT/MIN/MAX, min. 5 mns; USB standard: 2.0, full speed; connection assembly: Micro USB socket, protected, type B
- USB host: Connection of USB memory stick, max. 4 GB; recommended types: Delock USB 2.0 nano memory stick, Intenso Micro Line; USB standard: 2.0, full speed, max. 100 mA; connection assembly: Micro USB socket, protected, type B

Memory

- Internal measure value memory: 1 measurement, approx. 15,000 data records (270,000 measure values ACT/MIN/MAX)
- USB memory stick: 1 GB supplied

Functions

- Difference; addition; output; ACT; MIN; MAX; FS; TEMP display; battery charge; start-stop measurement

Display

- Type: FSTN-LCD, graphical with LED background lighting
- Visible area: 62 mm x 62 mm
- Resolution: 130 x 130 pixels

Voltage (external)

- Micro-USB socket, type B, + 5 V DC max 1000MA



Battery

Analog Version:

- Type: Lithium-ion pack: 3.7 V DC/2250 mAh
- Battery charging time with power supply: Approx. 3.5 hours
- Battery discharge period: > 8 hours, with 2 sensors

CAN Version:

- Type: Lithium-ion pack: 3.7 V DC/4550 mAh
- Battery charging time with power supply: Approx. 7 hours
- Battery discharge period: > 8 hours, with 2 CAN-BUS sensors

Casing

- Material of casing: PC/ABS
- Material of casing protective cover: TPU
- Dimensions (W x H x D): 96 x 172 x 54 mm
- Weight: approx. 540g

Operating Environment

- Operating temperature: 0-50°C
- Storage temperature: -25-60°C
- Relative humidity: <80%
- Environmental assessment: DIN EN 60068-2-32 (1 m free fall)
- Protection category (EN60529): Analog IP54, CAN IP67

PC Software

- Read measurement data, show, analyse on PC; read device settings, edit; load device setting from library to manual measuring device

Dimensions and pressures are for reference only and are subject to change.

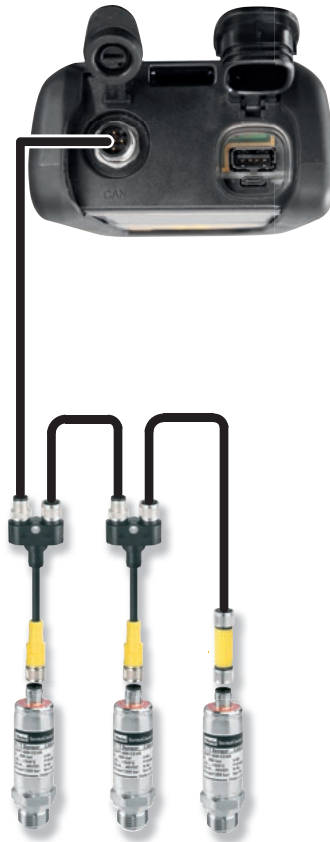
Serviceman Plus™

Diagnostic Meter

SCM-155-2-05 CAN Version

CAN Inputs:

- CAN-Bus sensor auto recognition
- Plug connection: 5-pol, M12 x 1, SPEEDCON plug
- Sampling rate P-channel: 1 ms



SCM-155-0-02 Analog Version

Analog Inputs:

- Analog sensor auto recognition
- Measurement Precision: ±0.02 ±one digit
- Plug Connection: 5-pol, push-pull
- Sampling rate P-channel: 1 ms



PDP Series – Test Port Couplings

Coupler

Female Thread

Part Number	Body Size	Thread Size
PDP242	1/8	1/4-18 NPTF



Nipples

Male Pipe Thread

Part Number	Body Size	Thread Size
PDP323	1/8	1/8-27 NPTF
PDP343	1/8	1/4-18 NPTF



Nipples

Male Straight Thread

Part Number	Body Size	Thread Size
PDP341	1/8	7/16-20 UNF
PDP361	1/8	9/16-18 UNF



Flexible Hose



Part Number	Length (in.)	Length (mm)	Thread Size A
SMA3-200	7.90	200	M16x2.0
SMA3-400	15.75	400	M16x2.0
SMA3-800	31.50	800	M16x2.0
SMA3-2000	78.75	2000	M16x2.0
SMA3-4000	157.50	4000	M16x2.0

Note: Other lengths available upon request.
Maximum pressure rating for test hose is 9000 psi.

Dimensions and pressures are for reference only and are subject to change.

Storage

9-DC, 18-DC

9 and 18 Drawer Cabinets

Features

- Prime cold rolled steel construction
- High density drawer cabinet, easy to store large quantities of small parts
- Drawers feature interlocking design for superior strength
- Drawers have full width handles and easy glide runners
- Each drawer includes 2 easy label dividers, which are adjustable on 1" centers
- Cabinets can be stacked using mounting holes
- Durable gray powder coat finish
- Ships fully assembled

Part Number	Dimensions (in.)			Drawer Dimensions (in.)		
	Width	Depth	Height	Width	Depth	Height
9-DC	17.25	11.625	10.875	5.375	11.25	2.75
18-DC	17.25	11.625	21.25	5.375	11.25	2.75



9 Drawer Cabinet



18 Drawer Cabinet

24B-Cabinet

24 Opening Bin

Features

- All welded, prime cold rolled steel
- Fully hemmed 1 1/8" bin fronts to hold labels and retain parts
- Roll-formed sides for increased strength and stability
- Ribbed and hemmed dividers provide added strength
- Modular with most 12" deep bins and drawer cabinets; mounting holes are located at both the top and bottom
- Durable gray powder coat finish
- Ships fully assembled

Part Number	Dimensions (in.)			Bin Dimensions (in.)		
	Width	Depth	Height	Width	Depth	Height
24B-Cabinet	33.75	12	23.875	5.375	11.875	5.5
40B-Cabinet	33.75	12	23.875	4.000	11.875	4.5



24 Bin Cabinet



40 Bin Cabinet

Pneu-Cab

Pneumatic Cabinet

Features

- High quality all-steel construction
- Partitioning slots provide flexibility for customization
- Drawer locks limit access to prevent loss and improve safety when moved
- Drawer interlock prevent opening multiple drawers that could cause accidental tip over
- Available fitting and connector labels with photos make easy selection and restock easy
- Locking 4" heavy-duty casters
- Retainer top with a non-skid mat work surface

Part Number	Dimensions (in.)			Drawers
	Width	Depth	Height	
Pneu-Cab	22.1875	28.5	39.5	five 3" & one 9"



Pneu-Cab

Dimensions and pressures are for reference only and are subject to change.