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# Hydraulic Hoses, Fittings and Equipment

Machines, Tooling, Accessories

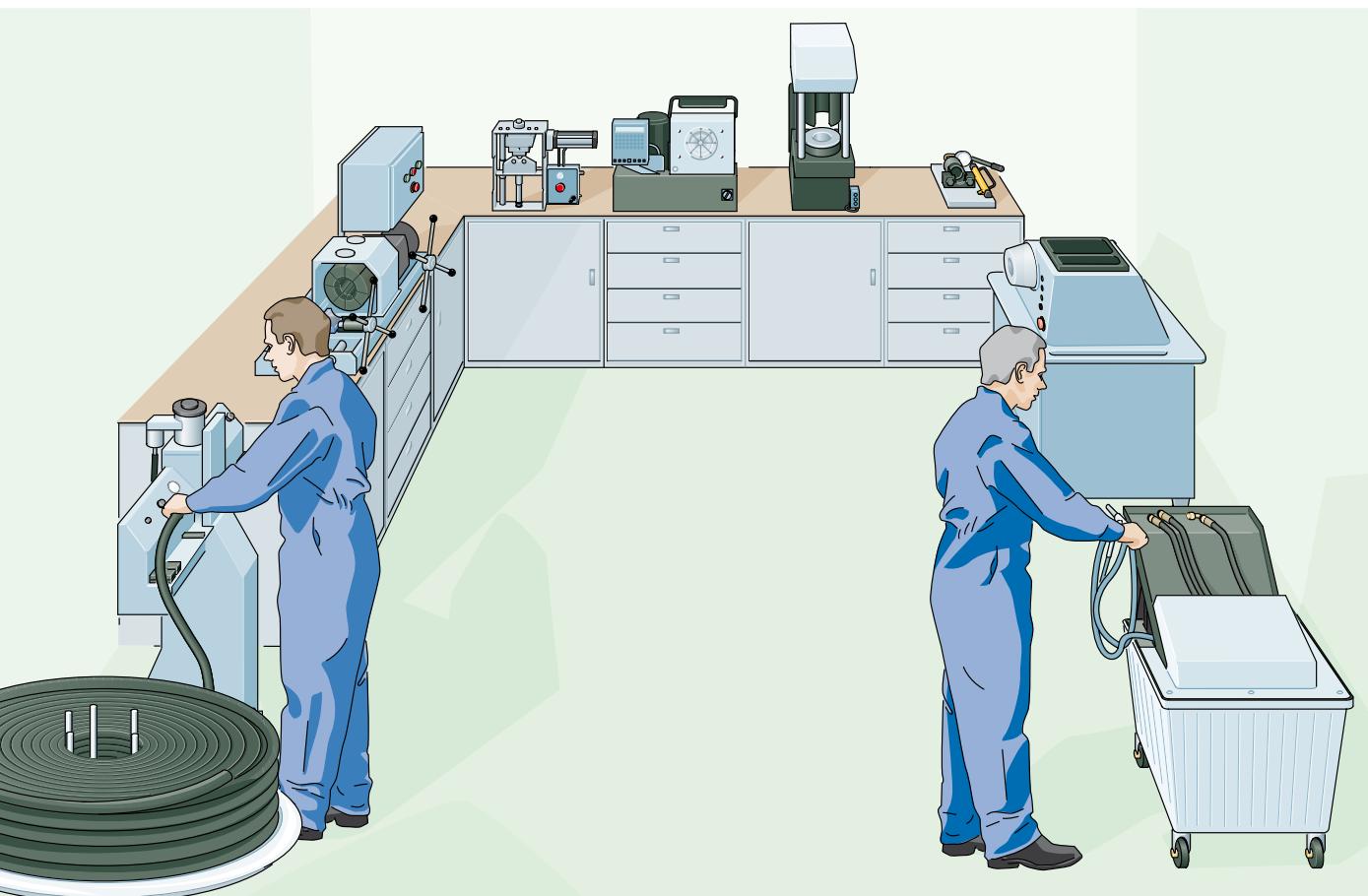


ENGINEERING YOUR SUCCESS.

# Hydraulic Hose Assembly Workshop Equipment

– meeting the demands of professional  
hose assembly manufacture

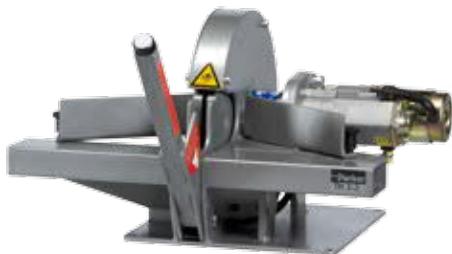
Hose assemblies must be manufactured in conformity with all the relevant EN/ISO standards and with the requirements of various work safety and trade associations. Hose Products Division Europe has selected and developed a complete range of machines and tooling to ensure effective and safe production of hose assemblies. This can be achieved only when equipment designed for the purpose is used.



**The programme includes the right tools for  
ready-to-install Parkrimp No-Skive  
and ParLock hose assemblies:**

- Cutting hoses
- Crimping hoses
- Marking hose assemblies
- Cleaning hose assemblies
- Testing hose assemblies

# Hydraulic Hose Assembly Workshop Equipment



**TH 3-2-12VDC**  
Hose Cutting Machine



**TH 3E-115**  
Hose Cutting Machine



**TH 5-3**  
Hose Assembly Test Bench



**TH 6-6**  
Cleaning System



**TH 7-12**  
7-stage hose reel

# Parkrimp® *No-Skive*

The system for fast and leak-free assemblies

Hose fittings have an impact on the overall efficiency and safety of a hydraulic system.

The No-Skive concept was launched by Parker Hannifin some 30 years ago but continuous development and the use of modern materials and production techniques have resulted in a state-of-the-art hose to fitting connection. Much easier handling and a high level of safety are available with No-Skive crimp fittings. Parker offers No-Skive fittings in one and two pieces as part of a package consisting of quality hose, No-Skive fittings, hose crimpers and tooling.



Parkrimp *No-Skive* one-piece fittings



**Modular Design = Portable + Bench Mount**

**Parkrimp crimpers** for *No-Skive* one-piece fittings

The modular design enables the customer to choose between the portability that Parker KarryKrimp crimpers have always offered, and the option to make these same crimpers bench mount units.

The modular design gives users the flexibility of a portable crimpler with the advantage of increased productivity when connected to the Bench Power Unit 85CE-1PE.



## Parkrimp® *No-Skive*

- No skiving tool needed
- No need to remove the cover
- Crimps one-piece fittings
- Parkalign positions the fittings in the dies perfectly every time
- Quick and easy: no gauges to set on the machine
- Portable machines for field repair
- Meets EN safety regulations

# ParLock Hose and Fittings

The high-performance skiving system

Certain customers and applications stipulate the usage of multispiral hose assemblies with external/internal skive-type fittings. With the ParLock hose and fitting range, Parker meets this demanding market requirement. Parker adjustable crimpers for two-piece fittings ensure precise, leak-free and tear-proof assembly of hose and fitting.

- High flex-impulse applications
- High vibration applications
- The ParLock design is approved by the German Accident Prevention & Insurance Association (Berufsgenossenschaft) conforming to EN 201 (approved for injection-moulding machine applications)

ParLock two-piece skive fittings



TH2-13-3PH  
Hose skiving machine

**Adjustable crimpers**  
for two-piece ParLock fittings



TH8E-530



TH 8E-380-BM



TH 8E-480-BM

## ParLock System

- A full range of multispiral hoses to ISO 3862 (4SP to R15)
- Field-tested, proven reliability
- Hose and fitting combinations giving performance that exceeds ISO/EN requirements
- Approved hose and fitting compatibility “one manufacturer, one source”

# Hose Whip Restraint

## Safety Restraining System for Pressure Hoses

- Prevents whipping of a pressurized hose in the event of the hose separating from its fitting
- The system consists of two parts – a hose collar and a cable assembly



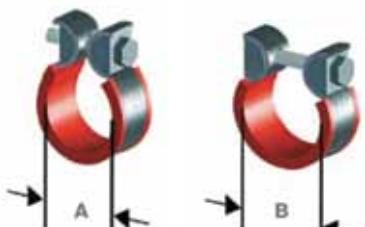
Parker's Hose Whip Restraint System is designed to prevent whipping of a pressurized hose in the event of the hose separating from its fitting. The Hose Whip Restraint System provides an additional level of safety and helps prevent damage to nearby equipment or injury to operators near the failed hose by limiting the whip or travel of the pressurized hose after it breaks free from its hose fitting. Serious damage or injury can occur from whipping hoses, especially at higher pressures.

The system consists of two parts – a hose collar and a cable assembly. The hose collar (WRCxx) is selected based on the outside diameter of the hose, and the cable assembly is selected based on the type of hose connection. Two types of cable assemblies are available – one for flange-type connections (WRFxxx), and the other for port adapters (WRAXxx).

The Hose Whip Restraint is not to be used in place of proper hose crimping procedures. Exceeding the maximum operating pressure of the hose jeopardizes the proper operation of the Hose Whip Restraint System.



**Cable Assemblies**  
for hoses using flange-style connections  
ISO 6162-1 (35.0 MPa/5000 psi) and  
ISO 6162-2 (42.0 MPa/ 6000 psi)



**Hose collars**  
for Hose Whip Restraint System

**Cable Assemblies**  
for hoses attached with port adapters

For more information about hose whip restraint please refer to page **Eb-19**.

# Machines, Tooling, Accessories

## Machines

|  |               |
|--|---------------|
| Parkrimp® Crimping Presses                 | Ea-1 – Ea-4   |
| Accessories for Parkrimp® Crimping Presses | Ea-5          |
| Parkrimp® Die Sets                         | Ea-6          |
| Hose Cutting Machines                      | Ea-7 – Ea-13  |
| Marking Machines                           | Ea-14 – Ea-15 |
| Cleaning Systems                           | Ea-16 – Ea-19 |
| Hose Assembly Test Bench                   | Ea-20         |
| Hose Reels                                 | Ea-21 – Ea-22 |
| Adjustable Crimping Presses                | Ea-23 – Ea-25 |
| Hose Skiving Machines                      | Ea-26 – Ea-28 |
| Skiving Tools for Hose Skiving Machines    | Ea-29         |

## Accessories

|                           |              |
|---------------------------|--------------|
| Flange Half               | Eb-1         |
| Full Flange System        | Eb-2         |
| Banjo Bolt                | Eb-3         |
| O-Rings                   | Eb-4 – Eb-5  |
| Worm Drive Hose Clamps    | Eb-6 – Eb-7  |
| Hose Protection           | Eb-8 – Eb-17 |
| Hose Whip Restraint       | Eb-18        |
| Containment Grips         | Eb-19        |
| Thread Identification Kit | Eb-19        |
| Parker „Hose-Oil“         | Eb-20        |
| OilOn                     | Eb-20        |
| Push-Lok® Assembly Oil    | Eb-20        |
| Push-Lok® Assembly Tool   | Eb-20        |

## Assembly Instructions

|                               |      |
|-------------------------------|------|
| KarryKrimp® 1 / KarryKrimp® 2 | Ec-1 |
| Parkrimp® 2                   | Ec-2 |

## Crimp Charts

|                    |               |
|--------------------|---------------|
| KarryKrimp® 1      | Ed-1 – Ed-4   |
| KarryKrimp® 2      | Ed-5 – Ed-9   |
| Parkrimp® 2        | Ed-10 – Ed-14 |
| Adjustable Crimper | Ed-15 – Ed-16 |

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## KarryKrimp® 1

Modular portable crimper for braided hoses

- Crimps
  - 1 and 2 steel wire or textile braided hoses ..... size -4 up to size -20
- Available in modular design with all Parkrimp system advantages
- The same unit offers portability and bench mountability
- Easily portable for outside work
- Used for service with hand pump or airhydraulic and electrical pump
- Portable, compact rugged design
- Pivoting pusher design for easy die change out
- Increased height enables longer bent tube fittings to be crimped



### Primary Applications

Small workshops, repair shops, mobile service vehicles.

### Fittings Series

**26, 43, 46, 48**

### Restrictions

Not suitable for multispiral hoses, 2-piece fittings, stainless steel fittings and serial production of hose assemblies in size -12 and above.

### Technical / Order Data

|                     |             |                          |
|---------------------|-------------|--------------------------|
| <b>KarryKrimp 1</b> | Dimensions  | H 760 x W 335 x D 330 mm |
|                     | Weight      | 28 kg                    |
|                     | Part Number | 82CE-061L                |

### Included standard equipment

|                       |        |             |          |
|-----------------------|--------|-------------|----------|
| <i>Crimp head</i>     |        | Part Number | 82CE-CHD |
| <i>Stand assembly</i> |        | Part Number | 85C-STD  |
| <i>Hose assembly</i>  |        | Part Number | 85C-00L  |
| <i>Die rings</i>      | silver | Part Number | 82C-R01  |
|                       | black  | Part Number | 82C-R02  |

Accessories see page **Ea-5**

## KarryKrimp® 2

Modular portable crimper  
for braided and multisprial hoses

- Crimps
  - 1 and 2 steel wire or textile braided hoses ..... up to size -20
  - 3 steel wire braided hoses ..... up to size -16
  - 4 layer multisprial hoses ..... up to size -16
  - compact spiral hoses ..... up to size -12
- Available in modular design with all Parkrim system advantages
- The same unit offers portability and bench mountability
- Easily portable for outside work
- Portable, compact rugged design
- Pivoting pusher design for easy die change out

### Primary Applications

Small workshops, repair shops, mobile service vehicles.  
Crimps both steel and stainless steel fittings.



### Fittings Series

**26, 43, 46, 48, 70, 71, 73, 77, 78**

### Restrictions

Not suitable for 2-piece fittings.

### Technical / Order Data

|              |             |                          |
|--------------|-------------|--------------------------|
| KarryKrimp 2 | Dimensions  | H 805 x W 340 x D 350 mm |
|              | Weight      | 46 kg                    |
|              | Part Number | 85CE-061L                |

### Included standard equipment

|                |        |             |          |
|----------------|--------|-------------|----------|
| Crimp head     |        | Part Number | 85CE-CHD |
| Stand assembly |        | Part Number | 85C-STD  |
| Hose assembly  |        | Part Number | 85C-00L  |
| Die rings      | silver | Part Number | 85C-R01  |
|                | black  | Part Number | 85C-R02  |

Accessories see page **Ea-5**

## KarryKrimp Bench Mount

Modular crimpers with  
Bench Power Unit for workshops

- In addition to the portable versions, the sole crimping units can be used with the Bench Power Unit for workshop versions
- Faster cycle times for increased productivity
- Increased height for longer elbows or bent tube fittings
- The crimpers and the Bench Power Unit are supplied separately



## Modular Design = Portable + Bench Mount

The modular design enables the customer to choose between the portability that Parker KarryKrimp crimpers have always offered, and the option to make these same crimpers bench mount units.

The modular design gives users the flexibility of a portable crimper with the advantage of increased productivity when connected to the Bench Power Unit 85CE-1PE.



### Technical / Order Data



Bench Power Unit  
85CE-1PE

|                     |                          |
|---------------------|--------------------------|
| Working pressure    | 70 MPa                   |
| Dimensions          | L 425 x W 525 x H 460 mm |
| Weight              | 62 kg                    |
| Usable oil capacity | 8000 ccm                 |
| Electrical power    | 230 V / 50/60 Hz / 10 A  |
| Part Number         | 85CE-1PE                 |

## Parkrimp® 2

Bench-mounted crimper for all Parkrimp  
**No-Skive** hose types from size -4 up to size -32,  
including 4 and 6 layer multispiral hoses

- Crimps
  - 1 and 2 steel wire or textile braided hoses ..... up to size -32
  - 3 steel wire braided compact ..... up to size -16
  - 4 and 6 layer multispiral hoses ..... up to size -32
  - Compact Spiral hoses ..... up to size -32
- Used for service with 400 V hydraulic power unit



### Primary Applications

Workshops and repair shops (for small series).  
Crimps both steel and stainless steel fittings.

### Fittings Series

**26, 43, 46, 48, 70, 71, 73, 77, 78, 79, S6**

### Restrictions

Not suitable for 2-piece fittings.

### Technical / Order Data

|  |                  |   |
|--|------------------|---|
| <b>Parkrimp 2</b> with power unit, bench-mounted, but without die sets, connector plug and oil | Electrical power | 400 V / 4.4 kW / 8.9 A / 50 Hz                    |
|  | Dimensions       | H 1170 x W 530 x D 985 mm                         |
|  | Weight           | without packaging 370 kg<br>with packaging 430 kg |
| <b>Part Number</b>   |                  | <b>83CE-083U</b>                                  |

### Included standard equipment

|                     |                    |                 |
|---------------------|--------------------|-----------------|
| <i>Adaptor bowl</i> | <b>Part Number</b> | <b>83C-0CB</b>  |
| <i>Die ring</i>     | <b>Part Number</b> | <b>83C-R02</b>  |
| <i>Die plate</i>    | <b>Part Number</b> | <b>83C-R02H</b> |

## Accessories for KarryKrimp® 1 and KarryKrimp® 2

For use with KarryKrimp 1 crimping press

Hand pump  
82C-2HP



|                     |                          |
|---------------------|--------------------------|
| Working pressure    | max. 70 MPa              |
| Dimensions          | L 530 x W 121 x H 178 mm |
| Weight              | 4.1 kg                   |
| Usable oil capacity | 900 ccm                  |
| Lever force         | 42 kg                    |
| Part Number         | 82C-2HP                  |

For use with KarryKrimp 1 and KarryKrimp 2 crimping presses

Hand pump  
85CE-0HP



|                     |                          |
|---------------------|--------------------------|
| Working pressure    | max. 70 MPa              |
| Dimensions          | L 580 x W 150 x H 195 mm |
| Weight              | 10.7 kg                  |
| Usable oil capacity | 2200 ccm                 |
| Lever force         | 35 kg                    |
| Part Number         | 85CE-0HP                 |

Turbo air pump  
85C-0AP



|                     |                          |
|---------------------|--------------------------|
| Working pressure    | 70 MPa                   |
| Dimensions          | L 350 x W 170 x H 210 mm |
| Weight              | 8.2 kg                   |
| Usable oil capacity | 2080 ccm                 |
| Connection          | air 1/4-18 NPTF thread   |
| Part Number         | 85C-0AP                  |

Power pump  
82CE-0EP



|                     |                            |
|---------------------|----------------------------|
| Working pressure    | 70 MPa with 3/2 hand valve |
| Dimensions          | L 244 x W 244 x H 362 mm   |
| Weight              | 10.0 kg                    |
| Usable oil capacity | 1900 ccm                   |
| Connection          | 230 V / 50/60 Hz / 10 A    |
| Part Number         | 82CE-0EP                   |

Air Hydraulic pump  
85CE-XAM



|                     |  |
|---------------------|--|
| Working pressure    | 70 MPa   |
| Dimensions          | L 351 x W 260 x H 152 mm                                       |
| Weight              | 8.8 kg   |
| Usable oil capacity | 1000 ccm   |
| Connection          | air: 1/4-18 NPTF female<br>oil: 3/8-18 NPTF female; 90° swivel |
| Part Number         | 85CE-XAM   |

Bench Power Unit  
85CE-1PE



|                     |                          |
|---------------------|--------------------------|
| Working pressure    | 70 MPa                   |
| Dimensions          | L 425 x W 525 x H 460 mm |
| Weight              | 62 kg                    |
| Usable oil capacity | 8000 ccm                 |
| Electrical power    | 230 V / 50/60 Hz / 10 A  |
| Part Number         | 85CE-1PE                 |

Hose Assembly 85C-00L

Hose assembly to connect  
pump to the press



|                  |                                |
|------------------|--------------------------------|
| Working pressure | max. 70 MPa                    |
| Length           | 1830 mm                        |
| Port size        | 3/8-18 NPT male, coupling 3/8" |
| Part Number      | 85C-00L                        |

## Parkrimp® Die Sets

Parker's Colour-Coded Die Sets

- Chain link keeps segments together
- No loose parts to mismatch or misplace
- The crimp die provides 360-degree gripping power for greater impulse life



**Note:** \*Please consult the pages **Ec** for assembly instructions.  
Die sets with the "H" suffix are used for jump sizes and certain metric fittings to permit insertion and removal of fittings. Die sets 80C-XX 8 segments are chained together. Die sets 83C-XX consist of two chained halves. Exceptions 83C-D06, -D08, -D10, -D12, -D16

|                |    | Die sets | Part Number |                      |           |                      |                     |                      |                    |           |           |  |
|----------------|----|----------|-------------|----------------------|-----------|----------------------|---------------------|----------------------|--------------------|-----------|-----------|--|
| Hose I.D. size | DN |          | 26 series   | 43 series            | 46 series | 48 series            | 70 series           | 71 series            | 73/78/79 series    | 77 series | S6 series |  |
| -4             | 6  | red      | 80C-E04     | 80C-A04              | 80C-B04   | 80C-C04              |                     |                      |                    |           |           |  |
| -5             | 8  | violett  | 80C-E05     | 80C-A05              | 80C-B05   | 80C-C05              |                     |                      |                    |           |           |  |
| -6             | 10 | yellow   | 80C-E06     | 80C-A06              | 80C-B06   | 80C-C06              | 83C-D06             | 83C-D06              |                    |           |           |  |
| -8             | 12 | blue     | 80C-E08     | 80C-A08              | 80C-B08   | 80C-C08              | 83C-D08             | 83C-D08              |                    | 80C-CS08  |           |  |
| -10            | 16 | orange   | 80C-E10     | 80C-A10              | 80C-B10   | 80C-C10              | 83C-D10             | 83C-D10              |                    | 80C-CS10  |           |  |
| -12            | 20 | green    | 80C-E12     | 80C-A12              | 80C-B12   | 80C-C12              | 83C-D12             | 83C-D12              | 83C-L12 or 80C-L12 | 80C-CS12  |           |  |
| -16            | 25 | black    | 80C-E16     | 80C-A16 or 83C-A16H  | 80C-B16   | 80C-C16              | 83C-D16 or 83C-D16H | 83C-D16 or 83C-D16H  | 83C-L16 or 80C-L16 | 83C-CS16  |           |  |
| -20            | 32 | white    | 83C-E20     | 80C-A20 or 83C-A20H* | 80C-B20   | 80C-C20 or 83C-C20H* |                     | 83C-D20 or 83C-D20H* | 83C-L20            | 83C-CS20  |           |  |
| -24            | 40 | red      | 83C-E24     | 83C-A24              |           | 83C-C24              |                     | 83C-D24              | 83C-L24            | 83C-CS24  |           |  |
| -32            | 50 | green    | 83C-E32     | 83C-A32              |           | 83C-C32              |                     | 83C-D32              | 83C-L32            | 83C-CS32  | 83C-L32   |  |

## EM 10.P

### Hose Cutting Machine

- Cuts
  - 1 steel wire or textile braided hoses ..... up to size -16
  - 2 steel wire braided hoses ..... up to size -12
- Can be used on a workbench or in a vice bench
- Cutting blade covered during use
- Equipped with an electrical safety switch



### Primary Applications

Repair shops or mobile service vehicles,  
preferably in combination with KarryKrimp 1

### Restrictions

Not suitable for multispiral hoses or  
large bore industrial hoses.

### Technical / Order Data

**Hose Cutting Machine EM 10.P**  
with cutting blade, smooth TM 160 x 2,5 x 20

|                       |                              |
|-----------------------|------------------------------|
| Electric motor        | circular saw motor 230 V     |
| Electric power        | 50/60 Hz / 1200 W / 6100 rpm |
| Electrical insulation | according VDE Kl.II 0740     |
| Radioshielding        | according VDE 0875           |
| Cutting blade         | 160 x 2.5 x 20 mm (HSS)      |
| Dimensions            | L 360 x W 340 x H 310 mm     |
| Weight                | 8 kg                         |
| Part Number           | EM 10.P                      |
| Part Number           | TM 160 x 2,5 x 20            |

**Cutting blade**, smooth

## TH 3-2-12VDC

Hose Cutting Machine

- Cuts
  - 1 and 2 steel wire or textile braided hoses ..... up to size -20
  - 4 steel wire multispiral hoses ..... up to size -16
- For mobile service vehicles with 12 V connection



Primary Applications  
Mobile service vehicles

Restrictions  
Not suitable for large bore hoses.

### Technical / Order Data

**Hose Cutting Machine TH 3-2-12VDC**  
with cutting blade, serrated

|                |                          |
|----------------|--------------------------|
| Electric motor | 12 V / 2.4 kW            |
| Cutting blade  | 250 x 2 x 40 mm          |
| Dimensions     | W 567 x D 470 x H 365 mm |
| Weight         | 30 kg                    |
| Part Number    | TH3-2-12VDC              |
| Part Number    | TM250x2x40Z              |

**Cutting blade**, serrated 250 x 2 x 40 mm

## TH 3E-EM3

Hose Cutting Machine

- Cuts
  - 1 and 2 steel wire or textile braided hoses ..... up to size -20
  - 4 steel wire multispiral hoses ..... up to size -20
  - Industrial hoses ..... up to size -32
- According to the CE safety standards the blade stops within 10 seconds after switching off the brake motor
- Faster and safer cut using less energy, cutting motor with a larger shaft oversize bearing to guarantee less vibration created by radial forces
- Cutting blades approved on considered material



### Primary Applications

Repair shops or mobile service vehicles

### Restrictions

Not suitable for large bore industrial hoses.

### Technical / Order Data

**Hose Cutting Machine TH 3E-EM3**  
with cutting blade, serrated TM275x3x30Z

|                    |                          |
|--------------------|--------------------------|
| Electrical power   | 3 kW                     |
| Cutting blade      | 275 x 3 x 30 mm          |
| Dimensions         | W 540 x D 440 x H 300 mm |
| Weight             | 50 kg                    |
| <b>Part Number</b> | <b>TH 3E-EM3</b>         |
| <b>Part Number</b> | <b>TM275x3x30Z</b>       |

**Cutting blade**, serrated 275 x 3 x 30 mm

## TH 3E-EM6-M

Hose Cutting Machine

- Cuts
  - 1 and 2 steel wire or textile braided hoses ..... up to size -32
  - Compact Spiral hoses ..... up to size -20
  - 6 steel wire multispiral hoses ..... up to size -32
- Cutting blade covered during use
- Motor with surface brake and thermo protection



### Primary Applications

Service in hose workshops and for small series production

### Restrictions

Cutting 6 layer multispiral hoses will reduce the service life of the blade.

### Technical / Order Data

|   |                  |                          |
|---|------------------|--------------------------|
| <b>Hose Cutting Machine TH 3E-EM6-M</b><br>with cutting blade, serrated TMG350x3x30 | Electrical power | 400 V / 4.4 kW / 50 Hz   |
|   | Exhaust system Ø | 60 mm                    |
|   | Cutting blade    | 350 x 3 x 30 mm          |
|   | Dimensions       | L 745 x W 690 x H 430 mm |
|   | Weight           | 75 kg                    |
|   | Part Number      | TH3E-EM6-M               |
| <b>Cutting blade</b> , serrated 350 x 3 x 30 mm                                     | Part Number      | TMG350x3x30              |

## TH 3E-115

### Hose Cutting Machine

- Cuts
  - all industrial hose types ..... up to 75 mm O.D.
  - 1, 2 and 3 steel wire or textile braided hoses ..... up to size -40
  - 4/6 steel wire multispiral hoses ..... up to size -32
- According to the CE safety standards the blade stops within 10 seconds after switching off the brake motor
- Faster and safer cut using less energy, cutting motor with a larger shaft oversize bearing to guarantee less vibration created by radial forces
- Cutting blades approved on considered material
- Easiest cutting of big dimensioned hoses with more energy efficient machines



### Primary Applications

Service and series production at workshops.

### Technical / Order Data

#### Hose Cutting Machine TH 3E-115

3-phase, 400 Volt

|   |                                   |
|---|-----------------------------------|
| Electrical power                        | 230/400 V / 7.5 kW / 25 A / 50 Hz |
| Exhaust system Ø                        | 108 mm                            |
| Cutting blade                           | 520 x 4 x 40 mm                   |
| Dimensions                              | L 1210 x W 650 x H 1650 mm        |
| Weight                                  | 245 kg                            |
| Part Number                             | TH3E-115                          |
| Cutting blade, serrated 520 x 4 x 40 mm | Part Number                       |
|   | TMG520 x 4 x 40                   |

# TH 3E-110

## Hose Cutting Machine

- Cuts
  - 1 and 2 steel wire or textile braided hoses ..... up to size -48
  - 4 steel wire multispiral hoses ..... up to size -48
  - 6 steel wire multispiral hoses ..... up to size -48
  - Industrial hoses ..... up to size -64
- According to the CE safety standards the blade stops within 10 seconds after switching off the brake motor
- Faster and safer cut using less energy, cutting motor with a larger shaft oversize bearing to guarantee less vibration created by radial forces
- Cutting blades approved on considered material
- Easiest cutting of big dimensioned hoses with more energy efficient machines



## Primary Applications

Service and series production at workshops

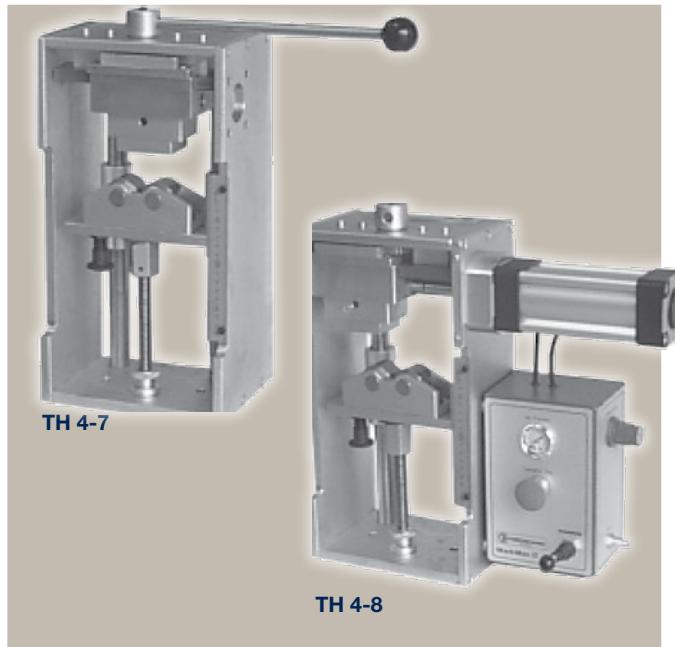
## Technical / Order Data

|  |                  |                           |
|--|------------------|---------------------------|
| <b>Hose Cutting Machine TH 3E-110</b><br>with cutting blade, serrated TMG520x4x120 | Electrical power | 7.5 kW                    |
|  | Exhaust system Ø | 100 mm                    |
|  | Cutting blade    | 520 x 4 x 120             |
|  | Dimensions       | W 800 x D 780 x H 1700 mm |
|  | Weight           | 280 kg                    |
|  | Part Number      | TH3E-110                  |
| <b>Cutting blade</b> , serrated 520 x 4 x 120 mm                                   | Part Number      | TMG520x4x120              |

## TH 4-7, TH 4-8

### Marking Machines

- Manually or pneumatically driven
- Suitable for marking all 1- and 2-piece fittings series up to size -32

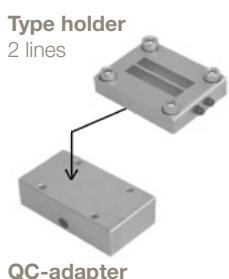


### Primary Applications

Smaller workshops and mobile service vehicles

### Technical / Order Data

|  |                    |                          |
|--|--------------------|--------------------------|
| <b>Marking Machine TH 4-8 manual</b><br>excl. QC-adapter, type case and type holder    | Colour             | zinc plated              |
|  | Dimensions         | L 500 x W 200 x H 500 mm |
|  | Weight             | 28 kg                    |
|  | <b>Part Number</b> | <b>TH4-8</b>             |
| <b>Marking Machine TH 4-7 pneumatic</b><br>excl. QC-adapter, type case and type holder | Colour             | zinc plated              |
|  | Air pressure       | min. 0.6 MPa             |
|  | Dimensions         | L 500 x W 380 x H 500 mm |
|  | Weight             | 35 kg                    |
|  | <b>Part Number</b> | <b>TH4-7</b>             |
| <b>Type case</b> 3 mm  | <b>Part Number</b> | <b>TH4-9</b>             |
| <b>Type print holder</b> 2 lines   | <b>Part Number</b> | <b>TH4-9-1</b>           |
| <b>QC-adapter</b> for type print holder  | <b>Part Number</b> | <b>TH4-10</b>            |



**Type case TH 4-9 content**  
AAABBC...  
LLLMMNNNOOOOPPQRRRSSSTT  
UUUVVVVXYZ//...,1111222233344  
445556667778889990000 and 20 pcs of blanks  
+ mirror

# TH 4-4 U, TH 4E-11

## Hand Marking Tools

- Hand marking tool for marking the crimp shells of 1- and 2-piece fittings up to size -32
- Permanent and easy marking in hose assembling workshops
- Type holder with two lines makes it possible to print additional information on the shell or fittings

TH 4E-11

- The cost efficient alternative



## Primary Applications

Workshops and mobile service vehicles

## Technical / Order Data

|   |   |  |
|---|---|--|
| <b>Hand Marking Tool TH 4-4 U</b><br>including type case and quick-change stamping tool | Marking area<br>Dimensions<br>Type holder<br>Weight<br><b>Part Number</b> | Ø O.D. 11.5 mm - 100 mm<br>L 250 x W 340 x H 450 mm<br>2 lines<br>35 kg<br><b>TH4-4U</b> |
| <b>Type case for TH 4-4 U</b>   | <b>Part Number</b>  | <b>UPTS 100</b>  |
| <b>Quick-change stamping tool for TH 4-4 U single line</b>                              | <b>Part Number</b>  | <b>UPTH-11b-PW3</b>  |
| <b>Type holder for TH 4-4 U 2 lines</b>   | <b>Part Number</b>  | <b>UPTH-22b</b>  |
| <b>Hand Marking Tool TH 4E-11</b><br>including type case and type holder                | Marking area<br>Dimensions<br>Type holder<br>Weight<br><b>Part Number</b> | Ø O.D. 8 mm - 80 mm<br>L 285 x W 265 x H 410 mm<br>1 line<br>12 kg<br><b>TH4E-11</b>     |
| <b>Type case for TH 4E-11</b>   | <b>Part Number</b>  | <b>TH4E-11-TC</b>  |
| <b>Type holder for TH 4E-11</b>   | <b>Part Number</b>  | <b>TH4E-11-TH</b>  |



**Type case UPTS 100 content**  
Letters: 1x P, 1x N, 3x letters empty  
Numbers: 6 x 1; 5 x 2,3,4,5; 4 x 6; 3 x 7,8,9; 4 x 0  
Neutral: 1x 15 mm, 1x 30 mm + brush, tweezers, key

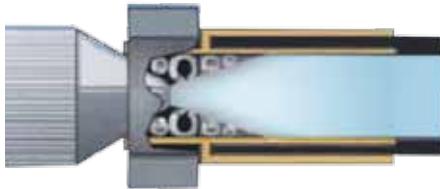
**Type case TH4E-11-TC content**  
Letters: 1x P, 1x N, 3x letters empty  
Numbers: 6 x 1; 5 x 2,3,4,5; 4 x 6; 3 x 7,8,9; 4 x 0  
Neutral: 1x 15 mm, 1x 30 mm + brush, tweezers, key

Stamping tool  
UPTH-11b-PW3

## TH 6-6

### Cleaning System

- Cleaning device for hose and hose assemblies for hoses up to size -20
- Assemblies flushed with fluid and blown out with air
- Defined cleanliness levels can be achieved
- Air connection min. 0.7 MPa required



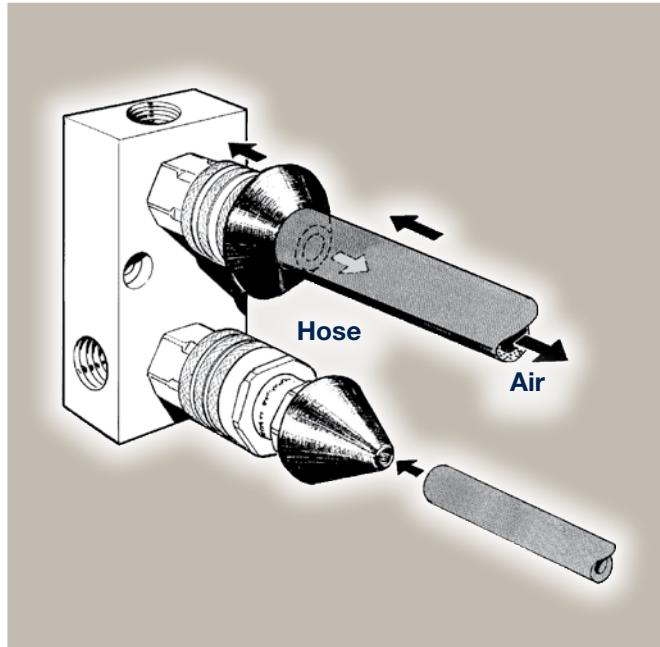
### Technical / Order Data

|  |                     |                                |
|--|---------------------|--------------------------------|
| <b>Cleaning Machine TH 6-6</b>                         | Air pressure        | min. 0.7 MPa                   |
|  | Flow                | 8 l/min                        |
|  | Air consumption     | max. 100 Nl/min                |
|  | Length              | (depending on I.D.) max. 2.5 m |
|  | Dimensions          | L 960 x W 435 x H 940 mm       |
|  | Weight              | 55 kg                          |
|  | with cleaning fluid | 93 kg                          |
|  | Part Number         | TH6-6                          |
| <b>Filter set</b> without cartridges                   | Part Number         | H899959                        |
| <b>Filter cartridges</b> 5 µm                          | Part Number         | 600.4                          |
| <b>Neutral cleaning fluid additive</b> (30 litre drum) | Part Number         | H899771                        |

## TH 6-7

### Cleaning System

- Quick and simple system using compressed air to clean hoses
- Delivered with two plastic nozzles for hoses from ..... size -4 up to -32



### Primary Applications

The hose is pressed against the nozzle and thereby opens a valve to allow the compressed air to blow through the hose and blow out loose particles.

### Technical / Order Data

|  |                    |                         |
|--|--------------------|-------------------------|
| <b>Cleaning System TH 6-7</b>            | Air pressure       | min. 0.6 MPa            |
| with two plastic nozzles in 30 and 55 mm | Air connection     | 1/2" BSP                |
|  | Dimensions         | L 120 x W 50 x H 100 mm |
|  | Weight             | 0.3 kg                  |
|  | <b>Part Number</b> | <b>TH6-7</b>            |
| <b>Nozzle</b> 30 mm                      | <b>Part Number</b> | <b>TH6-7-30</b>         |
| <b>Nozzle</b> 55 mm                      | <b>Part Number</b> | <b>TH6-7-55</b>         |

## TH 6-10-EL-7

### Ultra Clean Kit

- Cleaning of hoses from ..... size -4 up to -20
- Reduces downtime and risk of hose failure
- Has a quarter-turn locking ring for easy nozzle change and projectile loading
- Durable brass and aluminium internals, strong plastic handle, and anodized aluminium firing head and locking ring



### Primary Applications

Workshops and mobile service vehicles

### Restrictions

5 micron filter and regulator with gauge are strongly suggested

### Technical / Order Data

**Ultra Clean Kit TH 6-10-EL-7** with case, launcher in size -20, nozzles in size -4, -6, -8, -10, -12, -16 and -20 (1 each)

|                |                          |
|----------------|--------------------------|
| Air pressure   | min. 0.55 MPa            |
|                | max. 0.75 MPa            |
| Air connection | 1/2" I.D. air hose       |
| Dimensions     | L 407 x W 134 x H 343 mm |
| Weight         | 4 kg                     |
| Part Number    | <b>TH6-10-EL-7</b>       |

### Nozzles and Projectiles for Ultra Clean Kit TH6-10-EL-7

| Hose Size | Nozzle Part Number | Projectile Part Number |
|-----------|--------------------|------------------------|
| -4        | <b>TH6-10-H06</b>  | <b>TH6-10-P10</b>      |
| -5        | <b>TH6-10-H08</b>  | <b>TH6-10-P12</b>      |
| -6        | <b>TH6-10-H10</b>  | <b>TH6-10-P14</b>      |
| -8        | <b>TH6-10-H13</b>  | <b>TH6-10-P18</b>      |
| -10       | <b>TH6-10-H16</b>  | <b>TH6-10-P22</b>      |
| -12       | <b>TH6-10-H19</b>  | <b>TH6-10-P26</b>      |
| -16       | <b>TH6-10-H25</b>  | <b>TH6-10-P33</b>      |
| -20       | <b>TH6-10-H32</b>  | <b>TH6-10-P40</b>      |

## TH 6-10-HL-9-2

### Ultra Clean Kit

- Cleaning of hoses from ..... size -4 up to -32
- Reduces downtime and risk of hose failure
- Full-flow quick release coupling and unique 360° rotary plug for proper air flow and non-fatigue operator use
- Aluminium, fully anodized for harsh environments and heavy use
- Unique safety release bar that locks the faceplate into a closed position for firing Ultra Clean projectiles



### Primary Applications

Workshops and mobile service vehicles

### Restrictions

5 micron filter and regulator with gauge are strongly suggested

### Technical / Order Data

**Ultra Clean Kit TH 6-10-HL-9-2** with case, launcher in size -32, nozzles in size -4, -6, -8, -10, -12, -16, -20, -24 and -32 (1 each)

|                |                          |
|----------------|--------------------------|
| Air pressure   | min. 0.55 MPa            |
|                | max. 0.75 MPa            |
| Air connection | 1/2" I.D. air hose       |
| Dimensions     | L 407 x W 134 x H 343 mm |
| Weight         | 5 kg                     |
| Part Number    | TH6-10-HL-9-2            |

**Nozzles and Projectiles** for Ultra Clean Kit TH6-10-HL-9-2

| Hose Size | Nozzle Part Number | Projectile Part Number |
|-----------|--------------------|------------------------|
| -4        | TH6-10-H06         | TH6-10-P10             |
| -5        | TH6-10-H08         | TH6-10-P12             |
| -6        | TH6-10-H10         | TH6-10-P14             |
| -8        | TH6-10-H13         | TH6-10-P18             |
| -10       | TH6-10-H16         | TH6-10-P22             |
| -12       | TH6-10-H19         | TH6-10-P26             |
| -16       | TH6-10-H25         | TH6-10-P33             |
| -20       | TH6-10-H32         | TH6-10-P40             |
| -24       | TH6-10-H38         | TH6-10-P50             |
| -32       | TH6-10-H50         | TH6-10-P60             |

## TH 5-3

Hose Assembly Test Bench up to 145.0 MPa

- Totally sealed test chamber
- Safety interlock – pressure automatically decreases within 1/10 sec. when the test chamber is opened
- Rapid fill and automatic air bleeding of the test piece
- Weight-compensated protection cover with safety windows
- Bio-degradable water-oil emulsion as test medium
- Simple operation



### Primary Applications

Service and series production in workshops.

The hose assembly test bench makes the efficient and safe final inspection of hose assemblies practical and fast. Static pressure testing of other hydraulic components is also possible.

### Restrictions

This test bench is not designed for burst pressure testing. Due to the limited flexibility of large bore multisprial hoses it is not ideal for size -24 and size -32 pressure testing.

### Technical / Order Data

|  |                    |                 |
|--|--------------------|-----------------|
| <b>Hose Assembly Test Bench TH 5-3</b> | <b>Part Number</b> | <b>TH5-3</b>    |
| incl. HD adapter set                   |                    |                 |
| <b>HD adapter set</b>                  | <b>Part Number</b> | <b>405.906</b>  |
| <b>Corrosion protection, 10 l</b>      | <b>Part Number</b> | <b>H899770</b>  |
| <b>Hose Assembly Test Bench TH 5-3</b> | <b>Part Number</b> | <b>TH5-3-BM</b> |
| with result recording unit             |                    |                 |

## TH 7-12

7-stage hose reel

- Seven-stage reel for hoses from size -4 up to -20
- Every stage (except bottom stage) can be swung out horizontally so that new rolls can easily be inserted



Technical / Order Data

|                    |                             |
|--------------------|-----------------------------|
| Reel dimensions    |                             |
| Int. Ø min. / max. | 250 mm / 1010 mm            |
| Height max.        | 300 mm                      |
| Max. load per reel | 80 kg                       |
| Colour             | zinc plated                 |
| Dimensions         | L 1270 x W 1000 x H 2230 mm |
| Weight             | 148 kg                      |
| Part Number        | TH7-12                      |

**Hose Reel TH 7-12**  
for service and series production in workshops

## TH 7-13

1-stage hose reel

- One-stage reel for hoses from size -4 up to -32
- Table adjustable to fit the center of the coil



Technical / Order Data

|                    |                            |
|--------------------|----------------------------|
| Reel dimensions    |                            |
| Int. Ø min. / max. | adjustable 150 - 500 mm    |
| Max. load of reel  | 500 kg                     |
| Colour             | zinc plated / grey         |
| Dimensions         | L 1200 x W 1200 x H 830 mm |
| Weight             | 40 kg                      |
| Part Number        | TH7-13                     |

**Hose Reel TH 7-13**  
for service and series production in workshops

## TH 7-14

Horizontal motorized hose reel

- Motorized reel for hoses from .... size -4 up to -32
- Variable speed control in both directions
- Ideal for cutting long lengths where coiling is necessary



Technical / Order Data

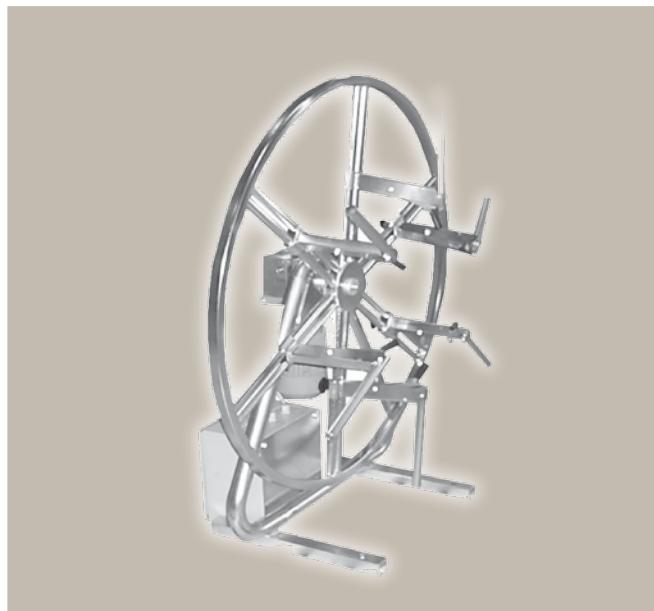
**Hose Reel TH 7-14**  
for service and series production in workshops

|                    |                          |
|--------------------|--------------------------|
| Reel dimensions    |                          |
| Int. Ø min. / max. | adjustable 150 - 500 mm  |
| Max. load of reel  | 500 kg                   |
| Electric power     | 230 V / 10 A / 50 Hz     |
| Colour             | zinc plated / light grey |
| Dimensions         | W 1200 x H 830 mm        |
| Weight             | 65 kg                    |
| Part Number        | TH7-14                   |

## TH 7-15

Vertical motorized hose reel

- Motorized reel for hoses from .... size -4 up to -20
- Variable speed control in both directions
- Ideal for cutting long lengths where coiling is necessary
- Very easy to unload



Technical / Order Data

**Hose Reel TH 7-15**  
for service and series production in workshops

|                    |                         |
|--------------------|-------------------------|
| Reel dimensions    |                         |
| Int. Ø min. / max. | adjustable 250 - 800 mm |
| Max. load of reel  | 100 kg                  |
| Electric power     | 230 V / 10 A / 50 Hz    |
| Colour             | zinc plated             |
| Dimensions         | W 600 x H 1400 mm       |
| Weight             | 75 kg                   |
| Part Number        | TH7-15                  |

# TH 8E-530, TH 8E-535-BM

Strong Crimping Press

- Crimps
  - all Parker *No-Skive* fittings ..... up to size -32
- Easy installation on the workbench in the workshop area or in the van
- For die sets series 239L and 266 (adapter die set PB266.239L required)



## Primary Applications

Hose assembly workshops with small series production and services at certified distributors, ParkerStores and hose workshops in the maintenance areas at OEM customers

### All TH 8E-530 and TH 8E-535 with

- adapter die set PB266.239L
- die set packet (14 mm – 74 mm) PBSET-TH8E-53X
- quick change tool QDC239.3

Attention: Delivery without oil or connecting plug

## Restrictions

Not for ParLock hose fittings in size -20, -24 and -32 (fittings series V4 and V6).

### TH 8E-530

|                  |                             |
|------------------|-----------------------------|
| Crimp force      | 200 t                       |
| Crimp range      | 94 mm                       |
| Noise level      | 69 dBA                      |
| Colour           | black/silver                |
| Electrical power | 400 V / 50 Hz / 3 PH / 4 kW |
| Control system   | micrometer                  |
| Dimensions       | L 700 x W 600 x H 735 mm    |
| Oil quantity     | 50 l                        |
| Weight           | 248 kg                      |

|                    |                             |
|--------------------|-----------------------------|
| <b>Part Number</b> | <b>TH8E-530</b>             |
| Electrical power   | 400 V / 50 Hz / 3 PH / 4 kW |
| Control system     | B-Touch                     |
| Dimensions         | L 700 x W 600 x H 735 mm    |
| Oil quantity       | 50 l                        |
| Weight             | 255 kg                      |

### TH 8E-530-BM

|                    |                             |
|--------------------|-----------------------------|
| <b>Part Number</b> | <b>TH8E-530-BM</b>          |
| Electrical power   | 400 V / 50 Hz / 3 PH / 4 kW |
| Control system     | B-Touch                     |
| Dimensions         | L 700 x W 600 x H 735 mm    |
| Oil quantity       | 50 l                        |
| Weight             | 255 kg                      |

### TH 8E-530-12VDC

|                    |                               |
|--------------------|-------------------------------|
| <b>Part Number</b> | <b>TH8E-530-12VDC</b>         |
| Electrical power   | 12 V DC                       |
| Control system     | micrometer                    |
| <b>Part Number</b> | <b>TH8E-530-12VDC</b>         |
| Electrical power   | 400 V / 50 Hz / 3 PH / 5.5 kW |

### TH 8E-535-BM

|                    |                               |
|--------------------|-------------------------------|
| <b>Part Number</b> | <b>TH8E-535-BM</b>            |
| Electrical power   | 400 V / 50 Hz / 3 PH / 5.5 kW |
| Control system     | B-Touch                       |
| Dimensions         | L 690 x W 600 x H 1053 mm     |
| Oil quantity       | 55 l                          |
| Weight             | 375 kg                        |

### Adapter die set

|                    |                   |
|--------------------|-------------------|
| <b>Part Number</b> | <b>PB266.239L</b> |
|--------------------|-------------------|

### Die rack

|                    |                |
|--------------------|----------------|
| <b>Part Number</b> | <b>QDS239S</b> |
|--------------------|----------------|

### Die set packet, diameter from 14 – 74 mm

|                    |                       |
|--------------------|-----------------------|
| <b>Part Number</b> | <b>PBSET-TH8E-53X</b> |
|--------------------|-----------------------|

### Quick change tool

|                    |                 |
|--------------------|-----------------|
| <b>Part Number</b> | <b>QDC239.3</b> |
|--------------------|-----------------|

# TH 8-800-BM

## Strong Crimping Press

- Crimps
  - all Parker **No-Shine** fittings ..... up to size -32
  - Industrial hose ..... up to 4" (DN 100)
  - SAE 100 R13 / SAE 100 R15 hose
    - with Parker **No-Shine** fittings ..... up to size -32
    - SAE 100 R15 hose
      - with ParLock fittings V4 and V6 ... up to size -20
- Adjustable crimper electronic system B and 3 different crimp programs, manual opening and closing, semi-automatic opening and closing, semi-automatic opening and closing with foot switch or depth stop
- It is possible to crimp small diameters with an adapter die set



## Primary Applications

Hose assembly workshops with small series production and services at certified distributors, ParkerStores and hose workshops in the maintenance areas at OEM customers

## Restrictions

Not for ParLock hose fittings in size -24 and size-32 (fittings series V4 and V6).

There could be interference with long drop elbow fittings.

## Technical / Order Data

**Crimping Press TH 8-800-BM** with  
 – adapter die set PB237.239.2L2  
 – quick change tool QDC239.3  
 – die set packet (12 mm – 74 mm) PBSET-TH8-800

Attention: Delivery without oil or connecting plug

|                   |                                       |
|-------------------|---------------------------------------|
| Electrical power  | 400 V / 50 Hz / 3 PH / 4 kW           |
| Crimp force       | 220 t                                 |
| Control system    | B-Touch                               |
| Crimp range       | 139 mm                                |
| Noise level       | 69 dB (A)                             |
| Colour            | black/silver                          |
| Dimensions        | L 690 x W 600 x H 1400 mm             |
| Oil tank capacity | 55 l                                  |
| Weight            | without oil 390 kg<br>with oil 445 kg |

|   |                      |
|---|----------------------|
| <b>Part Number</b>                              | <b>TH8-800-BM</b>    |
| <b>Adapter die set</b>                          | <b>PB237.239.2L2</b> |
| <b>Depth stop</b>                               | <b>TA800/A</b>       |
| <b>Die rack</b>                                 | <b>QDS239S</b>       |
| <b>Die set packet, diameter from 12 – 74 mm</b> | <b>PBSET-TH8-800</b> |
| <b>Foot switch</b>                              | <b>FU-HMX</b>        |
| <b>Mirror set</b>                               | <b>SHS-800</b>       |
| <b>Quick change tool</b>                        | <b>QDC239.3</b>      |

# TH 8E-380-BM

Heavy-Duty Crimping Press

- Crimps
  - all Parkrimp and ParLock hose types including 4 and 6 spiral steel wire
  - DIN 4SP/4SH, SAE 100 R13 / R15 Multispiral hoses ..... up to size -32
  - all Parker industrial hoses ..... up to 4" (DN 100)



## Primary Applications

Heavy-duty crimper for crimping multispiral hoses in workshops for series production. Suitable for all standard Parker hoses.

## Restrictions

Special hose assemblies with 2 elbows in extremely long version.

## Technical / Order Data

### TH 8E-380-BM with

- Adapter die set package PB237.239.2L2
- Quick change tool QDC239.3
- Die set package PBSET-TH8-380

For V4 and V6 fittings above size -16 long die sets are required (e.g. PB 237L-57)

Attention: Delivery without oil and connecting plug

|  |                                   |
|--|-----------------------------------|
| Electrical power   | 400 V / 50 Hz / 3 PH / 5.5 kW     |
| Crimp force  | 340 t                             |
| Control system   | Control B + Touch                 |
| Crimp range  | 161 mm                            |
| Type of dies   | 237L / 239L                       |
| Open / Close speed   | 23 mm/s                           |
| Noise level  | 69 dB (A)                         |
| Dimensions   | L 1600 x W 600 x H 1600 mm        |
| Weight without oil / with oil  | 750 kg / 840 kg                   |
| Part Number  | TH8E-380-BM                       |
| <b>Adapter die set package 237/239L</b>  | <b>Part Number</b> PB237.239.2L2  |
| <b>Depth Stop Automatic</b>  | <b>Part Number</b> TA380/A        |
| <b>Die rack</b>  | <b>Part Number</b> QDS239S        |
| <b>Die set package</b><br>PB 239L Ø 14, 17, 20, 24, 28, 32, 36, 40, 44, 50<br>PB 237L Ø 54, 57, 62, 67, 71, 74, 78 | <b>Part Number</b> PBSET-TH8E-380 |
| <b>Die set package optional</b><br>PB 237L Ø 84, 86, 90, 96, 103, 106, 111, 116, 121, 126, 131                     | <b>Part Number</b> PBSET-237L-IH  |
| <b>Foot switch</b>   | <b>Part Number</b> FU-HMX         |
| <b>Mirror set</b>  | <b>Part Number</b> SHS310/370     |
| <b>Quick change tool</b>   | <b>Part Number</b> QDC239.3       |
| <b>Workplace lamp</b>  | <b>Part Number</b> TH8-LUS        |

# TH 8E-480-BM

Heavy-Duty Crimping Press

- Crimps
  - all Parkrimp and ParLock hose types including 4 and 6 spiral steel wire
  - DIN 4SP/4SH, SAE 100 R13 / R15 Multispiral hoses ..... up to size -48
  - all Parker industrial hoses ..... up to 8"
- Compact design
- Safe positioning on the fixed 6 o'clock die
- Slide bearings on the crimp tool, no service and 20% less friction



## Primary Applications

Heavy Duty Crimping Press for service and series production at workshops

## Technical / Order Data

|   |                         |                                      |
|---|-------------------------|--------------------------------------|
| <b>TH 8E-480-BM with</b>                            | <b>Electrical power</b> | 220-480 V / 50/60 Hz / 3 PH / 5.5 kW |
| • Quick change tool QDC239.3                        | Crimp force             | 450 t                                |
| Attention: Delivery without oil and connecting plug | Control system          | B-Touch                              |
|   | Crimp range             | 310 mm                               |
|   | Open speed              | 20 mm/s                              |
|   | Crimp speed             | 1.5 mm/s                             |
|   | Close speed             | 23 mm/s                              |
|   | Noise level             | 62 dB (A)                            |
|   | Dimensions              | L 730 x W 1590 x H 2015 mm           |
|   | Weight without oil      | 2600 kg                              |
|   | Oil capacity            | 300 l                                |
|   | <b>Part Number</b>      | <b>TH8E-480-BM</b>                   |
| <b>Adapter die set PB245.237L</b>                   | <b>Part Number</b>      | PB245.237L                           |
| <b>Adapter die set PB237.239.2L2</b>                | <b>Part Number</b>      | PB237.239.2L2                        |
| <b>Quick change tool</b>                            | <b>Part Number</b>      | QDC239.3                             |
| <b>Workplace lamp</b>                               | <b>Part Number</b>      | TH8-LUS                              |

**TH 2-9**

## Hose Skiving Machine

- Efficient skiving of hydraulic hoses (external and internal) from ..... size -4 up to -32
- Easily controlled by a footpedal
- Waste collection bin



## Primary Applications

For small series and service application.

## Restrictions

Not recommended for series production.

## Technical / Order Data

|   |  |                                       |
|---|--|---------------------------------------|
| <b>Hose Skiving Machine TH 2-9</b><br>without skiving tools | Hose capacity, external skiving<br>4 and 6 layer | size -4 up to -32                     |
|   | Hose capacity, internal skiving<br>4 and 6 layer | size -6 up to -32                     |
|   | Speed  | 125 rpm                               |
|   | Colour   | light grey                            |
|   | Dimensions                                       | L 600 x W 410 x H 390 mm              |
|   | Weight   | 35 kg                                 |
| <b>Hose Skiving Machine TH 2-9-3PH</b><br>3 phases, 400 V   | Electrical power                                 | 3 PH / 400 V / 50 Hz / 16 A / 0.37 kW |
|   | Part Number                                      | TH2-9-3PH                             |
| <b>Hose Skiving Machine TH 2-9-1PH</b><br>1 phase, 230 V    | Electrical power                                 | 1 PH / 230 V / 50 Hz / 10 A / 0.37 kW |
|   | Part Number                                      | TH2-9-1PH                             |



Internal  
skiving tool



External  
skiving tool  
with one external tool

Skiving tools see page **Ea-29**

## TH 2-10-3PH

### Hose Skiving Machine

- Efficient skiving of hydraulic hoses (external and internal) from ..... size -4 up to -32
- Semi-automatic electro-pneumatic control-system
- Adjustable pressure and speed
- Automatic self-centering system
- Waste collection bin



### Primary Applications

Mainly for hose assembly workshop production for medium and large series.

### Restrictions

Work cycle for internal and external skiving takes place separately, not in one step.

### Technical / Order Data

#### Hose Skiving Machine TH 2-10-3PH without skiving tools

|                                 |                                      |
|---------------------------------|--------------------------------------|
| Hose capacity, external skiving |                                      |
| 4 and 6 layer                   | size -4 up to -32                    |
| Hose capacity, internal skiving |                                      |
| 4 and 6 layer                   | size -6 up to -32                    |
| Speed                           | 315 rpm                              |
| Air pressure                    | min. 0.7 MPa                         |
| Colour                          | light grey                           |
| Electrical power                | 3 PH / 400 V / 50 Hz / 16 A / 1.2 kW |
| Dimensions                      | L 680 x W 1200 x H 1080 mm           |
| Weight                          | 132 kg                               |
| <b>Part Number</b>              | <b>TH2-10-3PH</b>                    |



Internal  
skiving tool



External  
skiving tool  
with two external tools

Skiving tools see page **Ea-29**

## TH 2-13-3PH

Twin-Skive Machine

- Twin-skiving of hydraulic hoses (external and internal) from ..... size -4 up to -32 in one operation
- Semi-automatic electro-pneumatic control-system
- Automatic self-centring system
- Adjustable pressure and speed
- Waste collection bin
- Eliminates work-related injuries



### Primary Applications

For hose assembly workshops for series production.

### Restrictions

Max. hose outside diameter 75 mm for external skiving.

### Technical / Order Data

**Hose Skiving Machine TH 2-13-3PH**  
without skiving tools

|                                 |  |
|---------------------------------|--|
| Hose capacity, external skiving |  |
| 4 and 6 layer                   | size -4 up to -32                      |
| Hose capacity, internal skiving |  |
| 4 and 6 layer                   | size -6 up to -32                      |
| Speed                           | 400 / 315 rpm                          |
| Air pressure                    | min. 0.7 MPa                           |
| Colour                          | light grey                             |
| Electrical power                | 3 PH / 400 V / 50 Hz / 16 A / 2 x 0.75 |
| Dimensions                      | L 680 x W 1200 x H 1080 mm             |
| Weight                          | 150 kg                                 |
| <b>Part Number</b>              | <b>TH2-13-3PH</b>                      |



Skiving tool

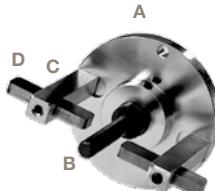
Skiving tools see page **Ea-29**

# Skiving Tools for TH 2-9, TH 2-10-3PH and TH 2-13-3PH

Internal skiving tool for TH 2-9 and TH 2-10-3PH

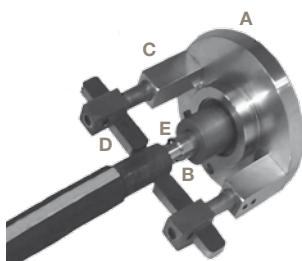
| Internal skiving tool<br>TH 2-9 and TH 2-10-3PH |  | A: Internal skiving knife | Size | Internal skiving tool<br>(without knife)<br>Part Number | Internal skiving knife<br>Part Number |
|---|---|---------------------------|------|---|---------------------------------------|
|   |   |                           | -10  | TH2-12NT-10   | TH2-12NK-1012                         |
|   |   |                           | -12  | TH2-12NT-12   |                                       |
|   |   |                           | -16  | TH2-12NT-16   | TH2-12NK-1620                         |
|   |   |                           | -20  | TH2-12NT-20   |                                       |
|   |   |                           | -24  | TH2-12NT-24   |                                       |
|   |   |                           | -32  | TH2-12NT-32   | TH2-12NK-2432                         |

External skiving tool for TH 2-9 and TH 2-10-3PH

| External skiving tool<br>TH 2-9 and TH 2-10-3PH                                    | Size | Mandrel Size<br>Part Number | External skiving<br>tool (without knife)<br>Part Number | Additional arm<br>Part Number              | External skiving<br>knife<br>Part Number |  |
|--|------|-----------------------------|---|--|--|--|
|  | -4   | TH2-11M-4                   | short arm<br>TH2-11ES                                   | short arm<br>TH2-11ES-1<br>TH2-10-3PH only | TH2-11EK                                 |  |
|  | -6   | TH2-11M-6                   |   |  |  |  |
|  | -8   | TH2-11M-8                   |   |  |  |  |
|  | -10  | TH2-11M-10                  |   |  |  |  |
|  | -12  | TH2-11M-12                  |   |  |  |  |
|  | -16  | TH2-11M-16                  | long arm<br>TH2-11EL                                    | long arm<br>TH2-11EL-1<br>TH2-10-3PH only  |  |  |
|  | -20  | TH2-11M-20                  |   |  |  |  |
|  | -24  | TH2-11M-24                  |   |  |  |  |
|  | -32  | TH2-11M-32                  |   |  |  |  |

Internal and external skiving tool for TH 2-13-3PH



| Internal and external skiving tool<br>TH 2-13-3PH                                   | Size | Mandrel Size<br>Part Number | Internal skiving<br>knife<br>Part Number | External skiving<br>toolholder<br>Part Number | Additional arm<br>Part Number | External skiving<br>knife<br>Part Number |  |
|---|------|-----------------------------|--|---|-------------------------------|--|--|
|  | -8   | TH2-13M-8                   | TH2-12NK-8                               | TH2-13ET                                      | short arm<br>TH2-13ES-1       | TH2-11EK                                 |  |
|   | -10  | TH2-13M-10                  | TH2-12NK-1012                            |   |                               |  |  |
|   | -12  | TH2-13M-12                  | TH2-12NK-1620                            |   |                               |  |  |
|   | -16  | TH2-13M-16                  | TH2-12NK-2432                            |   | long arm<br>TH2-13EL-1        |  |  |
|   | -20  | TH2-13M-20                  |  |   |                               |  |  |
|   | -24  | TH2-13M-24                  |  |   |                               |  |  |
|   | -32  | TH2-13M-32                  |  |   |                               |  |  |

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## Accessories

### Full Flange System

# Full Flange System

Provides full flange mounting option for ISO 6162-1 (35.0 MPa/5000 psi) and ISO 6162-2 (42.0 MPa/ 6000 psi) flanges – system flexibility reduces inventory investment.



Once the hose fitting is crimped to the hose, the flange is placed over the fitting end and then is held in place with the retaining ring. When the flange engages the retaining ring, the flange is held securely and is ready to be bolted to the port. Installation to the port is easy – there is no fumbling with the flange halves, and the flange can be rotated for ease of assembly to the port. The full flange system can be used repeatedly because of its patent-pending attachment system – the flange is not permanently locked onto the fitting.

## Flange System

ISO 6162-1 (35.0 MPa/ 5000 psi)\*

| SAE Flanges Size | max. working pressure | Flange      | Seal        | Retaining Ring |
|------------------|-----------------------|-------------|-------------|----------------|
| Inch             | psi                   | Part Number | Part Number | Part Number    |
| 3/4              | 5000                  | R-312-CFX   | XRG-12      | R12X           |
| 1                | 5000                  | R-316-CFX   | XRG-16      | R16X           |
| 1 1/4            | 5000                  | R-320-CFX   | XRG-20      | R20X           |
| 1 1/2            | 5000                  | R-324-CFX   | XRG-24      | R24X           |
| 2                | 5000                  | R-332-CFX   | XRG-32      | R32X           |
| 2 1/2            | 5000                  | R-340-CFX   | XRG-40      | R40X           |
| 3                | 3000                  | R-348-CFX   | XRG-48      | R48X           |

## Flange System

ISO 6162-2 (42.0 MPa/ 6000 psi)\*

| SAE Flanges Size | max. working pressure | Flange      | Seal        | Retaining Ring |
|------------------|-----------------------|-------------|-------------|----------------|
| Inch             | psi                   | Part Number | Part Number | Part Number    |
| 3/4              | 6000                  | R-612-CFX   | XRG-12      | R12X           |
| 1                | 6000                  | R-616-CFX   | XRG-16      | R16X           |
| 1 1/4            | 6000                  | R-620-CFX   | XRG-20      | R20X           |
| 1 1/2            | 6000                  | R-624-CFX   | XRG-24      | R24X           |
| 2                | 6000                  | R-632-CFX   | XRG-32      | R32X           |
| 2 1/2            | 5000                  | R-640-CFX   | XRG-40      | R40X           |
| 3                | 3000                  | R-648-CFX   | XRG-48      | R48X           |

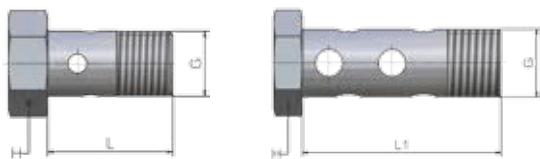
\* 2 1/2 inch max. 35.0 MPa/ 5000 psi  
3 inch max. 21.0 MPa/ 3000 psi

The stainless steel retaining rings and O-rings are recommended for one-time use.

## Accessories

### Banjo Bolt

## Banjo Bolt



### AM/AR - Banjo Bolt (DIN 7643)

| Single      | Double      | I.D.<br>Banjo | G<br>Thread<br>metric Inch | L1<br>Single<br>mm | L2<br>Double<br>mm | H<br>mm |
|-------------|-------------|---------------|----------------------------|--------------------|--------------------|---------|
| Part Number | Part Number | mm            |                            |                    |                    |         |
| AM-03       | A2M3        | 8             | M8x1                       | 17                 | 26                 | 12      |
| AM-04       | A2M4        | 10            | M10x1                      | 19                 | 30                 | 14      |
| AR-04       |             | 10            | 1/8                        | 19                 |                    | 14      |
| AM-06       | A2M6        | 12            | M12x1.5                    | 24                 | 38                 | 17      |
| AM-08       | A2M8        | 14            | M14x1.5                    | 26                 | 41                 | 19      |
| AR-08       |             | 14            | 1/4                        | 26                 |                    | 19      |
| AR-08C      |             | 14            | 1/4                        | 26                 |                    | 19      |
| AM-10       | A2M10       | 16            | M16x1.5                    | 28                 | 46                 | 22      |
| AR-10       |             | 17            | 3/8                        | 29                 |                    | 22      |
| AM-13       |             | 18            | M18x1.5                    | 32                 |                    | 24      |
| AM-16       |             | 22            | M22x1.5                    | 39                 |                    | 27      |
| AR-16       |             | 22            | 1/2                        | 39                 |                    | 27      |
| AM-20       |             | 26            | M26x1.5                    | 45                 |                    | 32      |
| AR-20       |             | 27            | 3/4                        | 45                 |                    | 32      |

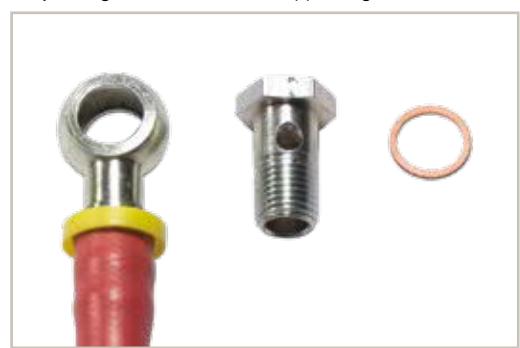


### 853009 – Copper Ring (Form A DIN 7603)

| Copper Ring | I.D.<br>Banjo | G<br>Thread<br>metric Inch |
|-------------|---------------|----------------------------|
| Part Number | mm            |                            |
| 853009-8    | 8             | M8x1                       |
| 853009-10   | 10            | M10x1                      |
| 853009-10   | 10            | 1/8                        |
| 853009-12   | 12            | M12x1.5                    |
| 853009-14   | 14            | M14x1.5                    |
| 853009-14   | 14            | 1/4                        |
| 853009-16   | 16            | M16x1.5                    |
| 853009-17   | 17            | 3/8                        |
| 853009-18   | 18            | M18x1.5                    |
| 853009-21   | 21            | 1/2                        |
| 853009-22   | 22            | M22x1.5                    |
| 853009-26   | 26            | M26x1.5                    |

Complete banjo fitting

Banjo fitting, bolt, double bolt, copper ring



## Accessories

### O-Rings

## O-Rings

Fittings are supplied with O-rings made from ozone-resistant Nitrile (NBR) rubber compound suitable for temperatures

On request: Viton® (FPM) compound  
Ethylene-Propylene (EPDM) compound

from -40 °C up to +120 °C

from -25 °C up to +200 °C

from -55 °C up to +150 °C

### 711509 – O-rings for SAE fittings (05 end configuration)

| O-Ring      |  | W<br>mm | UNF       | Thread UNF | Size |
|-------------|---|---------|-----------|------------|------|
| Part Number | mm  | mm      |           |            |      |
| 711509-1    | 8.92  | 1.83    | 7/16x20   |            | -4   |
| 711509-2    | 10.52   | 1.83    | 1/2x20    |            | -5   |
| 711509-3    | 11.89   | 1.98    | 9/16x18   |            | -6   |
| 711509-4    | 16.36   | 2.21    | 3/4x16    |            | -8   |
| 711509-5    | 19.18   | 2.45    | 7/8x14    |            | -10  |
| 711509-6    | 23.47   | 2.95    | 1-1/16x12 |            | -12  |
| 711509-7    | 29.74   | 2.95    | 1-5/16x12 |            | -16  |
| 711509-8    | 37.47   | 3.00    | 1-5/8x12  |            | -20  |

### 2-0 – O-rings for ORFS male (JD and JM end configuration)

| O-Ring       |  | W<br>mm | UNF        | Thread UNF | Size |
|--------------|---|---------|------------|------------|------|
| Part Number  | mm  | mm      |            |            |      |
| 2-011N552-90 | 7.65  | 1.78    | 9/16x18    |            | -4   |
| 2-012N552-90 | 9.25  | 1.78    | 11/16x16   |            | -6   |
| 2-014N552-90 | 12.42   | 1.78    | 13/16x16   |            | -8   |
| 2-016N552-90 | 15.60   | 1.78    | 1x14       |            | -10  |
| 2-018N552-90 | 18.77   | 1.78    | 1-3/16x12  |            | -12  |
| 2-021N552-90 | 23.52   | 1.78    | 1-7/16x12  |            | -16  |
| 2-025N552-90 | 29.87   | 1.78    | 1-11/16x12 |            | -20  |
| 2-029N552-90 | 37.82   | 1.78    | 2x12       |            | -24  |

### EARG/VURG/VERG – O-rings for BSP fittings

| O-Ring      |  | W<br>mm | BSP      | Thread BSP | Size |
|-------------|---|---------|----------|------------|------|
| Part Number | mm  | mm      |          |            |      |
| EARG-4      | 6.0   | 1.0     | 1/4x19   |            | -4   |
| C9RG-10     | 8.5   | 1.5     | 3/8x19   |            | -6   |
| VURG-4      | 12.0  | 1.5     | 1/2x14   |            | -8   |
| EARG-10     | 13.1  | 1.6     | 5/8x14   |            | -10  |
| VERG-14     | 17.0  | 1.5     | 3/4x14   |            | -12  |
| VERG-19     | 21.0  | 1.5     | 1x11     |            | -16  |
| EARG-20     | 29.5  | 1.5     | 1-1/4x11 |            | -20  |

## O-Rings

### 2-2 – O-rings for SAE flanges

| O-Ring       |  |      |       |  | Flange |      |
|--------------|---|------|-------|---|--------|------|
| Part Number  | mm  | mm   | Inch  |   |        | Size |
| 2-210N552-90 | 18.64   | 3.53 | 1/2   |   |        | -8   |
| 2-214N552-90 | 24.99   | 3.53 | 3/4   |   |        | -12  |
| 2-219N552-90 | 32.92   | 3.53 | 1     |   |        | -16  |
| 2-222N552-90 | 37.69   | 3.53 | 1 1/4 |   |        | -20  |
| 2-225N552-90 | 47.22   | 3.53 | 1 1/2 |   |        | -24  |
| 2-228N552-90 | 56.74   | 3.53 | 2     |   |        | -32  |
| 2-232N552-90 | 69.44   | 3.53 | 2 1/2 |   |        | -40  |
| 2-237N552-90 | 85.32   | 3.53 | 3     |   |        | -48  |

### CARG – O-rings for metric 24° female swivel hose-end fittings

| O-Ring      |  |     |         |  | Light series metric | Heavy series metric | Tube O.D. mm |
|-------------|--|-----|---------|--|---------------------|---------------------|--------------|
| Part Number | mm   | mm  |         |  |                     |                     |              |
| CARG-6      | 4.5  | 1.5 | M12x1.5 | M14x1.5  |                     |                     | 6            |
| C9RG-8      | 6.5  | 1.5 | M14x1.5 | M16x1.5  |                     |                     | 8            |
| C9RG-10     | 8.5  | 1.5 | M16x1.5 | M18x1.5  |                     |                     | 10           |
| C9RG-12     | 10.5   | 1.5 | M18x1.5 | M20x1.5  |                     |                     | 12           |
| C9RG-14     | 12.0   | 2.0 |         | M22x1.5  |                     |                     | 14           |
| CARG-15     | 12.5   | 2.0 | M22x1.5 |  |                     |                     | 15           |
| C9RG-16     | 14.0   | 2.0 |         | M24x1.5  |                     |                     | 16           |
| CARG-18     | 16.0   | 2.0 | M26x1.5 |  |                     |                     | 18           |
| C9RG-20     | 17.0   | 2.5 |         | M30x2  |                     |                     | 20           |
| CARG-22     | 20.0   | 2.0 | M30x2   |  |                     |                     | 22           |
| C9RG-25     | 22.0   | 2.5 |         | M36x2  |                     |                     | 25           |
| CARG-28     | 26.0   | 2.0 | M36x2   |  |                     |                     | 28           |
| C9RG-30     | 27.0   | 2.5 |         | M42x2  |                     |                     | 30           |
| CARG-35     | 32.0   | 2.5 | M45x2   |  |                     |                     | 35           |
| C9RG-38     | 35.0   | 2.5 |         | M52x2  |                     |                     | 38           |
| CARG-42     | 39.0   | 2.5 | M52x2   |  |                     |                     | 42           |

### XARG – Flange "D" rings Caterpillar® and 8000 psi style flanges

| O-Ring      |  |     |       |  | Flange |  |      |
|-------------|---|-----|-------|---|--------|--|------|
| Part Number | mm  | mm  |       |   |        |  | Size |
| XARG-12     | 25.4  | 5.0 | 3/4   |   |        |  | -12  |
| XARG-16     | 31.9  | 5.0 | 1     |   |        |  | -16  |
| XARG-20     | 38.2  | 5.0 | 1 1/4 |   |        |  | -20  |
| XARG-24     | 44.7  | 5.0 | 1 1/2 |   |        |  | -24  |
| XARG-32     | 63.9  | 5.0 | 2     |   |        |  | -32  |

## Accessories

### Worm Drive Hose Clamps

With cross slotted hex head screw (DIN 3017) for all applications

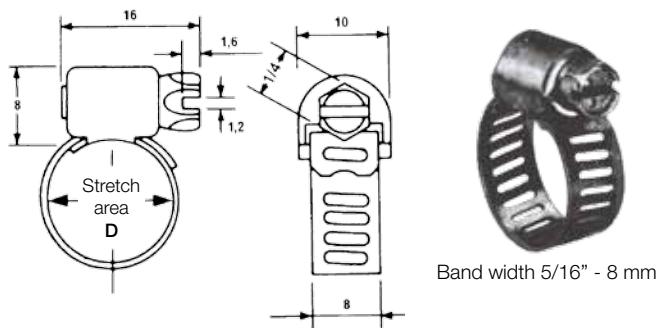
- Bands and housings of AISI 300 series stainless steel
- Unique interlock construction locks directly into band which tightens under tension
- Shouldered hex head, slotted screw  
No spot welds to rupture under stress or corrode
- Rounded band edges
- High efficiency giving high pressure sealing
- Wide clamping range, giving more flexibility to the user



### Miniature Worm Drive Hose Clamps

These small, tough, precision-engineered hose clamps provide:

- Low profile
- Narrow housing
- No protrusions
- Highest sealing
- High working pressure at low torque
- Easy to install in confined areas



### Miniature Standard "M" Series

For all clamping applications meeting normal environmental conditions. Hex head screw made of zinc plated carbon steel.

### Miniature Stainless "MS-N" Series

Preferred for those environmental conditions which require the extra protection provided by this 100% stainless steel hose clamp. Hex head screw of AISI 305 series made of stainless steel.

| "M" series  | D<br>Stretch area |             | "MS" series |
|-------------|-------------------|-------------|-------------|
| Part Number | mm                | Inch        | Part Number |
| M 0200      | 6 - 16            | 0.25 - 0.62 | MS 0200 N   |
| M 0300      | 8 - 22            | 0.30 - 0.87 | MS 0300 N   |
| M 0400      | 16 - 32           | 0.66 - 1.25 | MS 0400 N   |
| M 0500      | 16 - 38           | 0.66 - 1.50 | MS 0500 N   |
| M 0600      | 19 - 45           | 0.66 - 1.75 | MS 0600 N   |
| M 0700      | 25 - 50           | 1.00 - 2.00 | MS 0700 N   |
| M 0800      | 35 - 60           | 1.38 - 2.38 | MS 0800 N   |
| M 0900      | 45 - 70           | 1.75 - 2.75 | MS 0900 N   |
| M 1000      | 58 - 82           | 2.25 - 3.25 | MS 1000 N   |
| M 1100      | 64 - 90           | 2.50 - 3.50 | MS 1100 N   |
| M 1200      | 77 - 100          | 3.00 - 4.00 | MS 1200 N   |

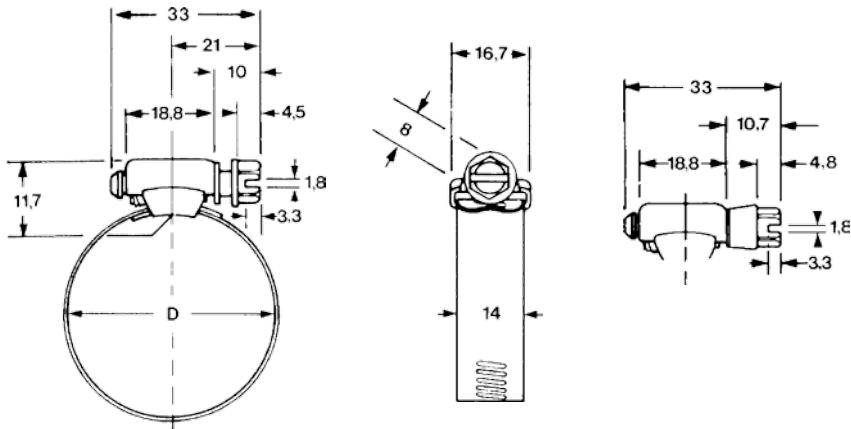
#### For your safety

Hose clamps are intended to ensure the sealing of flexible hoses carrying fluids under pressure; we therefore recommend that you choose the appropriate hose clamp, adhere to the assembly torques indicated and correctly position the hose clamp onto the fitting. Any deformation of the hose requires tightening of the clamp. We disclaim all responsibility for any product failure that might ensue should these recommendations be ignored.



## Worm Drive Hose Clamps

With cross slotted hex head screw (DIN 3017) for all applications



Band width 9/16" - 14 mm

### Standard "S" Series

Band and housing of stainless steel for all clamping applications, meeting normal environmental conditions. Hex head screw made of zinc plated carbon steel.

### Stainless "SS-N" Series

Preferred for those environmental conditions which require the extra protection provided by this 100% stainless steel hose clamp. Hex head screw of AISI 305 series made of stainless steel.

| "S" series | D<br>Stretch area |              | "SS" series |
|------------|-------------------|--------------|-------------|
|            | Part Number       | mm      Inch | Part Number |
| S 0600     | 10 - 22           | 0.38 - 0.87  | SS 0600 N   |
| S 0800     | 11 - 25           | 0.44 - 1.00  | SS 0800 N   |
| S 1000     | 13 - 28           | 0.50 - 1.12  | SS 1000 N   |
| S 1040     | 102 - 178         | 5.00 - 7.00  | SS 1040 N   |
| S 1200     | 13 - 32           | 0.50 - 1.25  | SS 1200 N   |
| S 1600     | 13 - 38           | 0.50 - 1.50  | SS 1600 N   |
| S 2000     | 19 - 44           | 0.75 - 1.75  | SS 2000 N   |
| S 2400     | 26 - 50           | 1.00 - 2.00  | SS 2400 N   |
| S 2800     | 34 - 57           | 1.32 - 2.25  | SS 2800 N   |
| S 3200     | 40 - 64           | 1.57 - 2.50  | SS 3200 N   |
| S 3600     | 23 - 70           | 0.88 - 2.75  | SS 3600 N   |
| S 4000     | 29 - 76           | 1.13 - 3.00  | SS 4000 N   |
| S 4400     | 34 - 82           | 1.32 - 3.25  | SS 4400 N   |
| S 4800     | 42 - 90           | 1.63 - 3.50  | SS 4800 N   |
| S 5200     | 48 - 95           | 1.88 - 3.75  | SS 5200 N   |
| S 5600     | 54 - 100          | 2.13 - 4.00  | SS 5600 N   |
| S 6400     | 67 - 114          | 2.63 - 4.50  | SS 6400 N   |
| S 7200     | 80 - 130          | 3.13 - 5.00  | SS 7200 N   |
| S 8000     | 92 - 140          | 3.63 - 5.50  | SS 8000 N   |
| S 8800     | 108 - 150         | 4.25 - 6.00  | SS 8800 N   |
| S 9600     | 121 - 165         | 4.75 - 6.50  | SS 9600 N   |

### Numerous applications in all fields

Automobile industry, ship building, automation systems, agricultural machinery, packaging machines, machine tools, mechanical handling equipment, welding equipment, construction equipment, petrochemical industry, mining, metallurgy.

## Protected hose assemblies live longer

In places where the hose assembly is exposed to severe mechanical strain, additional hose protectors such as guards, sleeves etc. have proven to be a good solution. The spring guards or armor guards, for example, prevent kinking of the hose and are the ideal protection against extreme abrasion or possible damage from the outside.

Before the fitting is crimped to the hose, the guard needs to be pushed onto the hose – so please remember to order the guards together with your order of hose assembly components.

For some applications it is an advantage to bundle hose assemblies with plastic hose protector coils or sleeves so that they make compact units. For this purpose we recommend using PolyGuard protectors, ParKoil hose protectors and Partek Wraps. Partek Wraps hose sleeves are designed for bundling hose assemblies after installation.

Parker offers a broad range of accessories to work smarter, faster and better!

### Spring Guard & Armour Guard (SG & AG)

Parker spring guard and armour guard are two products that prolong the life of your 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. See page **Eb-9** and **Eb-10**

### PolyGuard & Parkoil (HG & PG)

Protect and bundle your hoses with these spiral guards that minimize kinking and cannot rust. Both the PolyGuard and Parkoil install without removing the hose. See page **Eb-15** and **Eb-16**

### Partek (AS & PS)

Nylon woven protective sleeving gives you tough hose abrasion resistance with two versions of coverage – standard “AS” and a lighter “PS” – both providing protection and bundling capability. See page **Eb-11** and **Eb-12**

### Minesleeve (DMS)

Best abrasion resistance without adding stiffness to hose assemblies and exceeds the MSHA specifications for flame resistance and flame propagation. See page **Eb-13**

### Firesleeve (FS-F)

A flame-resistant sheath that protects your hose from extremely high temperature conditions. See page **Eb-14**

### Partek Wrap (PS-BV)

The need for a protective hose sleeve is not always considered while designing for a hose's application. Many hose assembly installations would benefit from a sleeve, but it is not obvious until all the other hoses and components are in place. Partek Wrap enables the hose sleeve to be installed after the hose assemblies have been positioned and secured in place. The Partek Wrap can be used as extra abrasion protection or to wrap multiple hoses or cables together. See page **Eb-17**

### Hose Shields (HP-B)

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 °C to +150 °C. Easily installed and secured by cable ties without disconnecting any hose lines. See page **Eb-18**



## SG – Spring Guard

Spring Guards protects the hose cover against abrasion and are constructed of steel wire and plated to resist rust.



| Hose \ Part Number   | I.D. mm | SG-060 | SG-066 | SG-072 | SG-084 | SG-097 | SG-106 | SG-113 | SG-122 | SG-131 | SG-155 | SG-166 | SG-182 | SG-209 | SG-220 | SG-232 | SG-270 | SG-292 | SG-369 |
|--|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 201, 206, 221FR, 225, 235  | 15.20   | -4     | -5     | -6     | -8     | -10    |        | -12    |        | -16    | -20    |        | -24    |        | -32    |        | -40    | -48    |        |
| 213, 285, 293  | 16.75   | -4/-5  | -6     |        | -8     | -10    | -12    |        |        | -16    | -20    |        | -24    |        | -32    |        | -40    | -48    |        |
| 301SN, 301TC, 302, 304   | 18.25   |        | -4     | -5     | -6     | -8     | -10    |        | -12    |        | -16    |        |        | -20    |        | -24    |        | -32    |        |
| 351TC, 402, 421RH, 421SN, 422, 424, 426, 436, 441, 441RH, 451TC, 461LT, 462, 462TC, 463, 471TC, 472TC, 492, 493, 611, 611HT, 681, 681DB, 692 | 21.30   | -4     | -5     | -6     | -8     | -10    |        | -12    |        |        | -16    |        | -20    | -24    |        | -32    | -40    | -48    |        |
| 372, 372RH, 371LT, 701   | 24.60   |        |        |        |        | -6     | -8     |        | -10    | -12    | -16    |        |        | -20    |        | -24    |        |        |        |
| 601  | 26.90   | -4     | -5     | -6     | -8     |        |        |        |        | -12    | -16    |        | -20    |        |        |        |        |        |        |
| 774, 721TC, 772LT  | 28.70   |        |        |        | -6     | -8     |        | -10    |        | -12    | -16    |        |        | -20    | -24    |        | -32    |        |        |
| 731, 781, 782TC, P35, 791TC, 792TC   | 30.95   |        |        |        |        |        |        |        |        | -12    |        | -16    |        | -20    |        | -24    |        | -32    |        |
| 801, 804, 821FR, 831, 836, 837BM   | 33.25   | -4/-5  |        | -6     | -8     | -10    |        | -12    |        | -16    |        |        |        |        |        |        |        |        |        |
| 811, 881, H29, H29ST, H29TC, H29RH   | 39.35   |        |        |        |        |        |        |        |        | -12    | -16    |        | -20    |        | -24    |        | -32    | -40    | -48    |
| H31, H31ST, H31TC  | 42.15   |        |        | -4     |        | -6     | -8     |        | -10    | -12    |        | -16    |        |        |        |        |        |        |        |
| R35, R35TC   | 46.20   |        |        |        |        |        |        |        |        | -12    | -16    |        | -20    |        | -24    |        | -32    | -40    |        |
| R42, R42ST, R42TC  | 53.05   |        |        |        |        |        |        |        | -10    | -12    |        | -16    |        | -20    |        | -24    |        | -32    |        |
| R50TC / R56TC  | 55.85   |        |        |        |        | -6     | -8     |        | -10    | -12    |        | -16    |        | -20    |        |        |        |        |        |
| 787TC, 797TC   | 58.90   |        |        | -4     | -6     | -8     |        | -10    |        | -12    | -16    |        | -20    |        | -24    |        | -32    |        |        |
| 412  | 68.55   | -4/-6  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 477  | 74.20   | -4     | -5     | -6     | -8     |        | -10    |        |        | -12    | -16    |        |        |        |        |        |        |        |        |
|  | 93.70   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |

## AG – Armour Guard

For extreme abrasion or possible damage from the outside, the corrosion-protected steel flat coil sleeve is recommended.



| Hose<br>I.D.<br>mm  | Part<br>Number | AG-060 | AG-066 | AG-072 | AG-084 | AG-097 | AG-106 | AG-113 | AG-122 | AG-131 | AG-155 | AG-161 | AG-166 | AG-182 | AG-209 | AG-232 | AG-270 | AG-292 | AG-319 |  |
|---|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
|   |                | 15.20  | 16.75  | 18.25  | 21.30  | 24.60  | 26.90  | 28.70  | 30.95  | 33.25  | 39.35  | 40.85  | 42.15  | 46.20  | 53.05  | 58.90  | 68.55  | 74.20  | 81.00  |  |
| 201, 206, 221FR, 225,<br>235  | -4             | -5     | -6     | -8     | -10    |        | -12    |        | -16    | -20    |        |        | -24    |        | -32    |        | -40    |        |        |  |
| 213, 285, 293   | -4/-5          | -6     |        | -8     | -10    | -12    |        |        | -16    | -20    |        |        | -24    |        |        |        | -40    |        |        |  |
| 301SN, 301TC, 302,<br>304   |                | -4     | -5     | -6     | -8     | -10    |        | -12    |        | -16    |        |        |        |        | -20    | -24    |        | -32    |        |  |
| 351TC, 402, 421RH,<br>421SN, 422, 424, 426,<br>436, 441, 441RH,<br>451TC, 461LT, 462,<br>462TC, 463, 471TC,<br>472TC, 492, 493, 611,<br>611HT, 681, 681DB,<br>692 | -4             | -5     | -6     | -8     | -10    |        | -12    |        |        | -16    |        |        | -20    | -24    |        | -32    |        | -40    |        |  |
| 372, 372RH, 371LT,<br>701   |                |        |        |        | -6     | -8     |        | -10    | -12    | -16    |        |        |        |        | -20    | -24    |        |        |        |  |
| 601   | -4             |        | -5     | -6     | -8     |        |        |        | -12    | -16    |        |        | -20    |        |        |        |        |        |        |  |
| 774, 721TC, 772LT   |                |        |        | -6     | -8     |        | -10    |        | -12    | -16    |        |        |        |        | -20    |        | -32    |        |        |  |
| 731, 781, 782TC, P35,<br>791TC, 792TC   |                |        |        |        |        |        |        |        | -12    |        |        | -16    |        | -20    | -24    |        | -32    |        |        |  |
| 801, 804, 821FR, 831,<br>836, 837BM   | -4/-5          |        | -6     | -8     | -10    |        | -12    |        | -16    |        |        |        |        |        |        |        |        |        |        |  |
| 811, 881, H29, H29ST,<br>H29TC, H29RH   |                |        |        |        |        |        |        |        | -12    | -16    |        |        | -20    |        | -32    |        | -40    |        |        |  |
| H31, H31ST, H31TC   |                |        | -4     |        | -6     | -8     |        | -10    | -12    |        | -16    |        |        |        |        |        |        |        |        |  |
| R35, R35TC  |                |        |        |        |        |        |        |        |        | -12    | -16    |        | -20    |        | -24    |        | -32    |        |        |  |
| R42, R42ST, R42TC   |                |        |        |        |        |        |        |        | -10    | -12    |        | -16    |        | -20    | -24    |        | -32    |        |        |  |
| R50TC, R56TC  |                |        |        |        | -6     | -8     |        | -10    | -12    |        | -16    |        |        | -20    |        |        |        |        |        |  |
| 787TC, 797TC  |                |        | -6     | -8     |        | -10    |        | -12    |        | -16    |        |        | -20    |        | -24    | -32    |        |        |        |  |
| 412   | -4/-6          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| 477   | -4             | -5     | -6     | -8     |        | -10    |        |        | -12    | -16    |        |        |        |        |        |        |        |        |        |  |

## AS – Partek® Nylon Protective Sleeve

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.

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.



Temperature Range ..... -55 °C up to +120 °C

| Part Number |         | I.D. round |      | I.D. flat |      |
|-------------|---------|------------|------|-----------|------|
| black       | yellow  | mm         | Inch | mm        | Inch |
| AS-B-11     | AS-Y-11 | 19         | 0.75 | 27        | 1.07 |
| AS-B-13     | AS-Y-13 | 24         | 0.93 | 34        | 1.34 |
| AS-B-15     | AS-Y-15 | 29         | 1.13 | 42        | 1.66 |
| AS-B-17     | AS-Y-17 | 31         | 1.22 | 46        | 1.82 |
| AS-B-19     | AS-Y-19 | 34         | 1.35 | 51        | 2.02 |
| AS-B-22     | AS-Y-22 | 36         | 1.43 | 54        | 2.13 |
| AS-B-27     | AS-Y-27 | 41         | 1.63 | 62        | 2.45 |
| AS-B-33     | AS-Y-33 | 46         | 1.81 | 70        | 2.75 |
| AS-B-35     | AS-Y-35 | 56         | 2.19 | 85        | 3.33 |
| AS-B-37     | AS-Y-37 | 60         | 2.38 | 92        | 3.63 |
| AS-B-39     | AS-Y-39 | 67         | 2.63 | 102       | 4.02 |
| AS-B-45     | AS-Y-45 | 73         | 2.88 | 113       | 4.43 |
| AS-B-47     | AS-Y-47 | 80         | 3.13 | 122       | 4.80 |
| AS-B-53     | AS-Y-53 | 86         | 3.38 | 132       | 5.20 |
| AS-B-58     | AS-Y-58 | 92         | 3.63 | 142       | 5.59 |
| AS-B-64     | AS-Y-64 | 102        | 4.00 | 157       | 6.18 |

## PS – Partek® Nylon Protective Sleeve

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 "PS" is strong enough to withstand greater than 50,000 abrasion cycles without wearing through the fabric at any location. 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.



Temperature Range ..... -55 °C up to +120 °C

| Part Number | I.D. round |      | I.D. flat |      |
|-------------|------------|------|-----------|------|
|             | mm         | Inch | mm        | Inch |
| PS-B-12     | 19         | 0.75 | 27        | 1.08 |
| PS-B-13     | 23         | 0.91 | 34        | 1.32 |
| PS-B-15     | 27         | 1.06 | 40        | 1.56 |
| PS-B-17     | 31         | 1.22 | 46        | 1.82 |
| PS-B-22     | 36         | 1.42 | 54        | 2.14 |
| PS-B-33     | 46         | 1.81 | 70        | 2.75 |
| PS-B-35     | 56         | 2.19 | 85        | 3.33 |
| PS-B-37     | 60         | 2.38 | 92        | 3.63 |
| PS-B-39     | 67         | 2.63 | 102       | 4.02 |
| PS-B-45     | 73         | 2.88 | 113       | 4.43 |
| PS-B-47     | 80         | 3.13 | 122       | 4.8  |
| PS-B-80     | 127        | 5.00 | 197       | 7.75 |
| PS-B-88     | 140        | 5.50 | 217       | 8.54 |

## DMS – Minesleeve

Parker Minesleeve offers the best abrasion resistance without adding stiffness to hose assemblies and exceeds the MSHA specifications for flame resistance and flame propagation. Burst tests performed according to SAE J343 on hose assemblies covered with Minesleve (DMS) show an oil spill retention capability of 7 times greater than similar products. Also suitable for bundling small hose assemblies, tubing or wires.



- Abrasion resistance
  - offers the best abrasion resistance without adding stiffness to hose assemblies
- Fire & flame resistance
  - exceeds US MSHA specifications for flame resistance & flame propagation
- Electrical conductivity
  - tests performed to ISO 8031 on hose assemblies covered with minesleeve show electrical conductivity values well below the specification requirements
- Oil spill retention
  - burst tests performed according to SAE J343 on hose assemblies covered with minesleeve show an oil spill retention capability of 7 times greater than similar products, also suitable for bundling small hose assemblies, tubing or wires
- Approvals: MSHA & UK COAL

Temperature Range ..... -50 °C up to +120 °C

| Part Number | I.D. round |      | I.D. flat |      |
|-------------|------------|------|-----------|------|
|             | mm         | Inch | mm        | Inch |
| DMS-23      | 23         | 0.91 | 39        | 1.54 |
| DMS-27      | 27         | 1.06 | 45        | 1.77 |
| DMS-31      | 31         | 1.22 | 52        | 2.05 |
| DMS-36      | 36         | 1.42 | 57        | 2.24 |
| DMS-47      | 47         | 1.85 | 77        | 3.03 |
| DMS-55      | 55         | 2.17 | 89        | 3.5  |
| DMS-66      | 66         | 2.60 | 107       | 4.21 |
| DMS-85      | 85         | 3.35 | 136       | 5.35 |
| DMS-93      | 93         | 3.66 | 149       | 5.87 |
| DMS-127     | 127        | 5.00 | 197       | 7.75 |

## FS-F – Fire Sleeves

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. When fitting the fire sleeve to hose assemblies with reusable or crimped fittings, a fire sleeve clamp must be used.



- Certification:
  - 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 min.
  - 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
  - MIL-C-24576A
  - PJA and P96 Thermal Conductivity

- Braided fiberglass sleeve with orange, bonded and seamless silicone rubber cover
- Conforms to SAE Aerospace Standard 1072A Type 2A

Temperature Range ..... -54 °C up to +260 °C

| Part Number | min. I.D. |      | max. O.D. |      | Suction Hose (R4) |    |      | 1-2/Wire Braided |       |      | Multispiral |       |      |     |
|-------------|-----------|------|-----------|------|-------------------|----|------|------------------|-------|------|-------------|-------|------|-----|
|             | mm        | Inch | mm        | Inch | inch              | mm | size | inch             | mm    | size | inch        | mm    | size |     |
| FS-F-10     | 15        | 0.58 | 25        | 0.97 |                   |    |      | 1/4              | 6     | -4   |             |       |      |     |
| FS-F-11     | 17        | 0.65 | 26        | 1.03 |                   |    |      | 1/4              | 6     | -4   |             |       |      |     |
| FS-F-12     | 18        | 0.71 | 28        | 1.09 |                   |    |      | 5/16             | 8     | -5   |             |       |      |     |
| FS-F-14     | 21        | 0.84 | 31        | 1.22 |                   |    |      | 3/8              | 10    | -6   |             |       |      |     |
| FS-F-16     | 24        | 0.96 | 35        | 1.38 |                   |    |      | 1/2              | 13    | -8   | 1/4         | 6     | -4   |     |
| FS-F-18     | 27        | 1.08 | 38        | 1.50 |                   |    |      | 1/2              | 13    | -8   | 3/8         | 10    | -6   |     |
| FS-F-20     | 31        | 1.21 | 40        | 1.59 |                   |    |      | 5/8              | 16    | -10  | 1/2         | 13    | -8   |     |
| FS-F-22     | 34        | 1.34 | 44        | 1.75 | 3/4               | 19 | -12  |                  |       |      | 3/4         | 19    | -12  |     |
| FS-F-24     | 37        | 1.46 | 48        | 1.90 |                   |    |      | 1                | 25    | -16  |             |       |      |     |
| FS-F-28     | 43        | 1.71 | 52        | 2.06 | 1                 | 25 | -16  | 1                | 25    | -16  | 1           | 25    | -16  |     |
| FS-F-30     | 47        | 1.84 | 56        | 2.19 |                   |    |      |                  |       |      |             |       |      |     |
| FS-F-32     | 50        | 1.96 | 59        | 2.32 | 1 1/4             | 32 | -20  | 1 1/4            | 32    | -20  |             |       |      |     |
| FS-F-38     | 59        | 2.34 | 70        | 2.74 |                   |    |      | -24              | 1 1/4 | 32   | -20         | 1 1/4 | 32   | -20 |
| FS-F-40     | 63        | 2.46 | 71        | 2.79 |                   |    |      | 1 1/2            | 38    | -24  | 1 1/2       | 38    | -24  |     |
| FS-F-48     | 75        | 2.96 | 86        | 3.40 | 2                 | 51 | -32  | 2                | 51    | -32  | 2           | 51    | -32  |     |
| FS-F-60     | 94        | 3.71 | 105       | 4.15 | 2 1/2             | 65 | -40  | 2 1/2            | 65    | -40  | 2 1/2       | 65    | -40  |     |
|             |           |      |           |      | 3                 | 76 | -48  | 3                | 76    | -48  |             |       |      |     |

## HG – PolyGuard Hose Protector

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



- Shields hose from abrasion and cuts
- Easy to install without removing hose lines: no clamps needed
- Minimises risk of kinking
- Resistant to air, water, oil, gasoline, hydraulic fluid and most solvents
- Ideal for bundling plastic tubing or hose lines
- Cannot rust or corrode
- Color: black

**Caution: This material will support combustion**

Temperature Range ..... -40 °C up to +93 °C

| Part Number | min. I.D.    |             | 1-2-wire braided |          |           | Multispiral |          |            | Suction hose (R4) |          |            |
|-------------|--------------|-------------|------------------|----------|-----------|-------------|----------|------------|-------------------|----------|------------|
|             | mm           | Inch        | Inch             | mm       | Size      | Inch        | mm       | Size       | Inch              | mm       | Size       |
| HG-075      | 18.3 - 19.8  | 0.72 - 0.78 | 1/2<br>5/8       | 13<br>16 | -8<br>-10 | 1/4<br>3/8  | 6<br>10  | -4<br>-6   | -                 | -        | -          |
| HG-100      | 24.6 - 26.2  | 0.97 - 1.03 | 3/4              | 19       | -12       | 1/2<br>5/8  | 13<br>16 | -8<br>-10  | 3/4               | 19       | -12        |
| HG-125      | 31.0 - 32.5  | 1.22 - 1.28 | 1                | 25       | -16       | 3/4         | 19       | -12        | -                 | -        | -          |
| HG-150      | 37.30 - 38.9 | 1.47 - 1.53 | 1 1/4            | 32       | -20       | 1           | 25       | -16        | 1<br>1 1/4        | 25<br>32 | -16<br>-20 |
| HG-200      | 50.0 - 51.6  | 1.97 - 2.03 | 1 1/2            | 32       | -24       | 1 1/4       | 32       | -20        | 1 1/2             | 32       | -24        |
|             |              |             | 2                | 38       | -32       | 1 1/2       | 38       | -24        | 2                 | 38       | -32        |
| HG-350      | 88.1 - 89.7  | 3.47 - 3.53 | 2 1/2            | 51       | -40       | 2           | 51       | -32        | 2 1/2             | 51       | -40        |
|             |              |             | 3                | 76       | -48       | 2 1/2<br>3  | 65<br>76 | -40<br>-48 | 3                 | 76       | -48        |

## PG – ParKoil Hose Protector

Lower-cost protection for applications that call for a tighter bend radius and are less demanding



- Shields hose from abrasion and cuts
- Easy to install without removing hose lines: no clamps needed
- Minimises risk of kinking
- Resistant to air, water, oil, gasoline, hydraulic fluid and most solvents
- Ideal for bundling plastic tubing or hose lines
- Cannot rust or corrode
- Color: black

**Caution: This material will support combustion**

Temperature Range ..... -17 °C up to +93 °C

| Part Number | min. I.D.         |                     | 1-1/2-wire braided |          |            | Multispiral |          |            | Suction hose (R4) |          |            |
|-------------|-------------------|---------------------|--------------------|----------|------------|-------------|----------|------------|-------------------|----------|------------|
|             | mm ( $\pm 1.25$ ) | Inch ( $\pm 0.05$ ) | Inch               | mm       | Size       | Inch        | mm       | Size       | Inch              | mm       | Size       |
| PG-038      | 9.65              | 0.38                | 3/16               | 5        | -3         | -           | -        | -          | -                 | -        | -          |
| PG-050      | 12.70             | 0.50                | 1/4<br>5/16        | 6<br>8   | -4<br>-5   | -           | -        | -          | -                 | -        | -          |
| PG-062      | 15.75             | 0.62                | 3/8                | 10       | -6         | 1/4         | 6        | -4         | -                 | -        | -          |
| PG-075      | 19.05             | 0.75                | 1/2                | 13       | -8         | 3/8         | 10       | -6         |                   |          |            |
| PG-088      | 22.35             | 0.88                | 5/8                | 16       | -10        | 1/2         | 13       | -8         |                   |          |            |
| PG-100      | 25.40             | 1.00                | 3/4                | 19       | -12        | 5/8         | 16       | -10        |                   |          |            |
| PG-119      | 30.25             | 1.19                | -                  | -        | -          | 3/4         | 19       | -12        | 3/4               | 19       | -12        |
| PG-138      | 35.05             | 1.38                | 1<br>1 1/4         | 25<br>32 | -16<br>-20 | 1<br>1 1/4  | 25<br>32 | -16<br>-20 | 1                 | 25       | -16        |
| PG-188      | 47.75             | 1.88                | 1 1/2<br>2         | 38<br>51 | -24<br>-32 | 1 1/2<br>2  | 38<br>51 | -24<br>-32 | 1 1/2<br>2        | 38<br>51 | -24<br>-32 |

## PS – Partek Wrap

Nylon hose sleeve designed for bundling hose assemblies after installation

- Post-assembly installation
- Light weight and high flexibility
- Urethane-coated 1050 ballistic Nylon
- Ambient temperature range of -51 °C to 93 °C
- Fast and easy installation
- Designed for added abrasion resistance or bundling of multiple hoses
- Can be cut to size with household scissors



| Part Number | I.D. round |      | I.D. flat |      |
|-------------|------------|------|-----------|------|
|             | mm         | Inch | mm        | Inch |
| PS-BV-200   | 50         | 2    | 80        | 3.2  |
| PS-BV-300   | 75         | 3    | 80        | 3.2  |
| PS-BV-400   | 100        | 4    | 162       | 6.5  |
| PS-BV-500   | 125        | 5    | 203       | 8.1  |
| PS-BV-600   | 150        | 6    | 243       | 9.7  |
| PS-BV-700   | 175        | 7    | 283       | 11.3 |
| PS-BV-800   | 200        | 8    | 325       | 13.0 |

## WKS Rubber hand grip

For **No-Slipp** high pressure water cleaning hoses



| Hand Grip   |        | Hose I.D. |      |      |      | L<br>mm | D1<br>mm | D2<br>mm |
|-------------|--------|-----------|------|------|------|---------|----------|----------|
| Part Number | Colour | DN        | Inch | Size | mm   |         |          |          |
| WKS-4-BLK   | black  | 6         | 1/4  | -4   | 6.4  | 120     | 15.0     | 24       |
| WKS-4-BLU   | blue   | 6         | 1/4  | -4   | 6.4  | 120     | 15.0     | 24       |
| WKS-5-BLK   | black  | 8         | 5/16 | -5   | 7.9  | 150     | 17.0     | 34       |
| WKS-5-BLU   | blue   | 8         | 5/16 | -5   | 7.9  | 150     | 17.0     | 34       |
| WKS-6-BLK   | black  | 10        | 3/8  | -6   | 9.5  | 150     | 19.5     | 34       |
| WKS-6-BLU   | blue   | 10        | 3/8  | -6   | 9.5  | 150     | 19.5     | 34       |
| WKS-8-BLK   | black  | 12        | 1/2  | -8   | 12.7 | 150     | 22.5     | 34       |
| WKS-8-BLU   | blue   | 12        | 1/2  | -8   | 12.7 | 150     | 22.5     | 34       |
| WKS-8-GRA   | grey   | 12        | 1/2  | -8   | 12.7 | 150     | 22.5     | 34       |

## HP-B – Hose Shield

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 °C to +150 °C. Easily installed and secured by cable ties without disconnecting any hose lines.



- Use with hose from size -4 up to size -32
- 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 Shields KIT HP-B-13X18-KIT with

- 2 x HP-13 RFL Hose Protectors, length 101 mm (4")
- 2 x HP-15 RFL Hose Protectors, length 152 mm (6")
- 4 x HP-18 RFL Hose Protectors, length 203 mm (8")
- 30 x HT-12 Tie Wraps
- 30 x HT-16 Tie Wraps
- 15 x HT-22 Tie Wraps

Part Number

HP-B-13X18-KIT

### Counter Display HP-B-13-RFL with

- 10 x HP-B-13 Hose Protectors, length 101 mm (4")
- 30 x HT-12 Tie Wraps

Part Number

HP-B-13-RFL

### Counter Display HP-B-15-RFL with

- 10 x HP-B-15 Hose Protectors, length 152 mm (6")
- 30 x HT-16 Tie Wraps

Part Number

HP-B-15-RFL

### Counter Display HP-B-18-RFL with

- 5 x HP-B-18 Hose Protectors, length 203 mm (8")
- 15 x HT-18 Tie Wraps

Part Number

HP-B-18-RFL

### Hose Protector, length 101 mm (4")

Part Number

HP-B-13

### Hose Protector, length 152 mm (6")

Part Number

HP-B-15

### Hose Protector, length 203 mm (8")

Part Number

HP-B-18

## Hose Whip Restraint

Safety Restraining System for Pressure Hoses

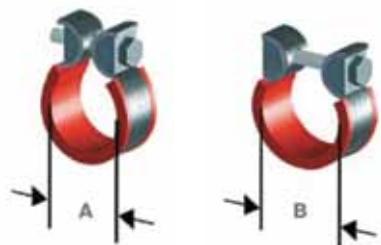
- Prevents whipping of a pressurized hose in the event of the hose separating from its fitting
- The system consists of two parts
  - a hose collar and a cable assembly



| Part Number | A    |    | B     |      |
|-------------|------|----|-------|------|
|             | Inch | mm | Inch  | mm   |
| WRC1212     | 0.47 | 12 | 0.492 | 12.5 |
| WRC1313     | 0.51 | 13 | 0.531 | 13.5 |
| WRC1415     | 0.55 | 14 | 0.591 | 15   |
| WRC1718     | 0.67 | 17 | 0.709 | 18   |
| WRC1819     | 0.71 | 18 | 0.748 | 19   |
| WRC2021     | 0.79 | 20 | 0.827 | 21   |
| WRC2223     | 0.87 | 22 | 0.906 | 23   |
| WRC2425     | 0.95 | 24 | 0.984 | 25   |
| WRC2526     | 0.98 | 25 | 1.024 | 26   |
| WRC2728     | 1.06 | 27 | 1.102 | 28   |
| WRC2829     | 1.10 | 28 | 1.142 | 29   |
| WRC3031     | 1.18 | 30 | 1.220 | 31   |
| WRC3435     | 1.34 | 34 | 1.378 | 35   |
| WRC3637     | 1.42 | 36 | 1.457 | 37   |
| WRC3839     | 1.50 | 38 | 1.535 | 39   |
| WRC4445     | 1.73 | 44 | 1.772 | 45   |
| WRC4547     | 1.77 | 45 | 1.850 | 47   |
| WRC4850     | 1.89 | 48 | 1.969 | 50   |
| WRC5153     | 2.01 | 51 | 2.087 | 53   |
| WRC5456     | 2.13 | 54 | 2.205 | 56   |
| WRC5759     | 2.25 | 57 | 2.330 | 59   |
| WRC6365     | 2.48 | 63 | 2.559 | 65   |
| WRC6971     | 2.72 | 69 | 2.795 | 71   |
| WRC7577     | 3.00 | 75 | 3.030 | 77   |
| WRC8486     | 3.30 | 84 | 3.380 | 86   |
| WRC8789     | 3.42 | 87 | 3.500 | 89   |

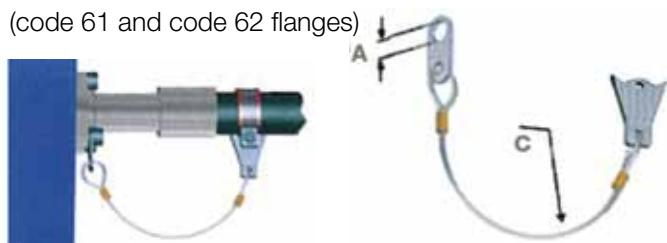
## Hose collars

for Hose Whip Restraint System



## Cable Assemblies

for hoses using flange-style connections  
(code 61 and code 62 flanges)



## Cable Assemblies

for hoses attached with port adapters

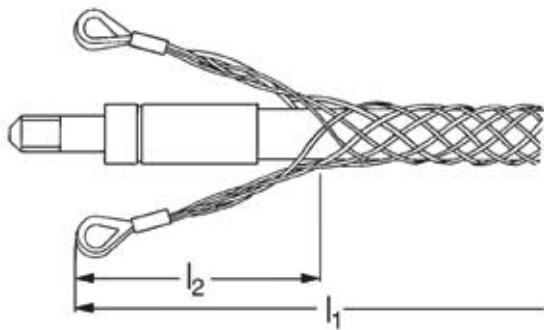


| Part Number | A    |      | C     |     |
|-------------|------|------|-------|-----|
|             | Inch | mm   | Inch  | mm  |
| WRF085      | 0.33 | 8.5  | 11.81 | 300 |
| WRF105      | 0.41 | 10.5 | 17.72 | 450 |
| WRF125      | 0.49 | 12.5 | 17.72 | 450 |
| WRF145      | 0.57 | 14.5 | 17.72 | 450 |
| WRF165      | 0.65 | 16.5 | 17.72 | 450 |
| WRF205      | 0.81 | 20.5 | 17.72 | 450 |

| Part Number | A    |      | C     |     |
|-------------|------|------|-------|-----|
|             | Inch | mm   | Inch  | mm  |
| WRA145      | 0.57 | 14.5 | 11.81 | 300 |
| WRA170      | 0.67 | 17.0 | 11.81 | 300 |
| WRA185      | 0.73 | 18.5 | 11.81 | 300 |
| WRA205      | 0.81 | 20.5 | 11.81 | 300 |
| WRA225      | 0.89 | 22.5 | 11.81 | 300 |
| WRA245      | 0.96 | 24.5 | 11.81 | 300 |
| WRA265      | 1.04 | 26.5 | 11.81 | 300 |
| WRA305      | 1.20 | 30.5 | 11.81 | 300 |
| WRA340      | 1.34 | 34.0 | 17.72 | 450 |
| WRA365      | 1.44 | 36.5 | 17.72 | 450 |
| WRA425      | 1.67 | 42.5 | 17.72 | 450 |
| WRA455      | 1.79 | 45.5 | 17.72 | 450 |
| WRA490      | 1.93 | 49.0 | 17.72 | 450 |
| WRA525      | 2.07 | 52.5 | 17.72 | 450 |
| WRA600      | 2.36 | 60.0 | 17.72 | 450 |

## HS – Containment Grips

- Material: electrogalvanized steel wire



| Part Number | Hose I.D. |      |      |      | $\varnothing$ | Working load | Breaking load | Total length<br>l1 | Length of loops<br>l2 |
|-------------|-----------|------|------|------|---------------|--------------|---------------|--------------------|-----------------------|
|             | DN        | Inch | Size | mm   |               |              |               |                    |                       |
| HS-03       | 5         | 3/16 | -3   | 4.8  | 9 - 15        | 3            | 9             | 600                | 200                   |
| HS-05       | 8         | 5/16 | -5   | 7.9  | 12 - 20       | 6            | 18            | 600                | 200                   |
| HS-08       | 12        | 1/2  | -8   | 12.7 | 20 - 30       | 11           | 33            | 600                | 200                   |
| HS-12       | 20        | 3/4  | -12  | 19.0 | 30 - 40       | 11           | 33            | 600                | 200                   |
| HS-16       | 25        | 1    | -16  | 25.4 | 40 - 50       | 16           | 48            | 600                | 200                   |

## Thread Identification Kit

The thread identification tools are useful to help you identify international threads such as:

- European threads (Metric, BSPP, BSPT threads) and
- U.S. threads (NPT and SAE straight threads UNF)



### Technical / Order Data

**Thread identification kit**  
with thread gauges, a set of callipers, thread profiles and instruction booklet

|             |         |            |
|-------------|---------|------------|
| Part Number | English | H905375-GB |
| Part Number | German  | H905375-DE |
| Part Number | French  | H905375-FR |

The components of the thread ID Kit are not high-precision gauges but simple instruments for workshop use.

## Parker „Hoze-Oil“

Parker's hose assembly lubricant is pressure and temperature resistant. The lubrication effect will help to insert Parker No-Skive hose and fittings. If necessary simply wet the fitting end with a drop of hoze oil.

Volume  
Part Number



1 l

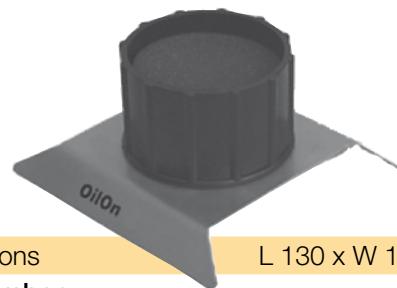
Hoze-Oil

## OilOn TH 11-3

Oiling pad for lubrication of fittings

The perfect way to lubricate the fitting, making it easier to insert into the hose. A foam rubber sponge that evenly disperses the oil onto the fitting, in an effective and easy manner.

Material  
Dimensions  
Part Number



steel/plastic  
L 130 x W 130 x H 70 mm  
TH11-3

## Push-Lok® Assembly Oil H896137

Water-oil emulsion for easier assembly of Parker Push-Lok® fittings. This product is very useful in combination with 830M, 837BM and 837PU hoses as the Push-Lok® assembly oil is free from wetting disturbing substances, e.g. silicone (Labs-free).

Volume  
Part Number

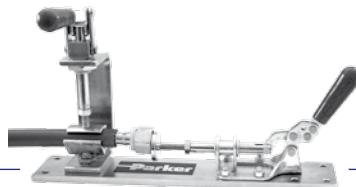


1 l

H896137

## Push-Lok® Assembly Tool

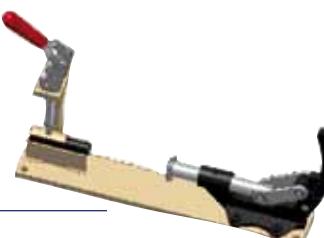
Assembly Tool 611050G



Tool designed for assembly of Push-Lok® fittings and hoses in all sizes. Toggle actions greatly reduce effort necessary to hold hose and press in fitting. Only a few pounds of force is needed on either handle to quickly assemble any size.

Overall length  
Weight  
Part Number

Assembly Tool 611050HV  
"Rigid version"



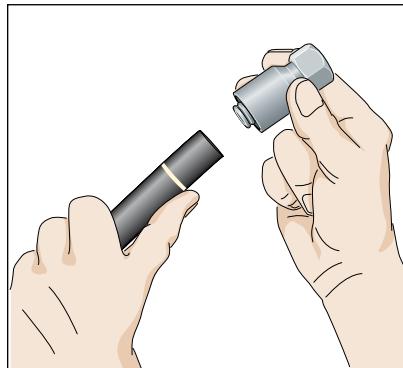
Dimensions  
Weight  
Part Number



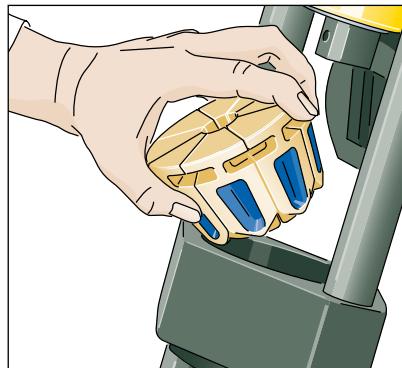
## KarryKrimp® 1 / KarryKrimp® 2

KarryKrimp 1 crimps Parkrimp® fittings 26, 43, 46, 48 series size -4 up to -20

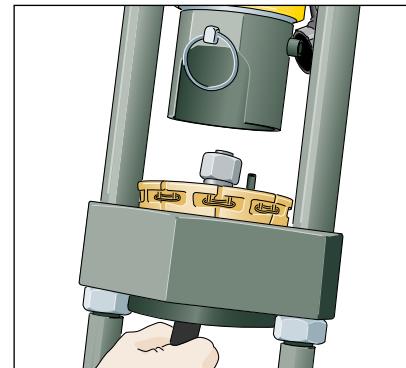
KarryKrimp 2 crimps Parkrimp® fittings 26, 43, 46, 48, 70, 71, 73, 77 and 78 series



1. Mark the hose insertion depth acc. crimpable with a marker and push hose into fitting until the mark on the hose is even with the end of the shell. If necessary simply wet the fitting end with a drop of hose oil. Do not lubricate if using spiral hose.



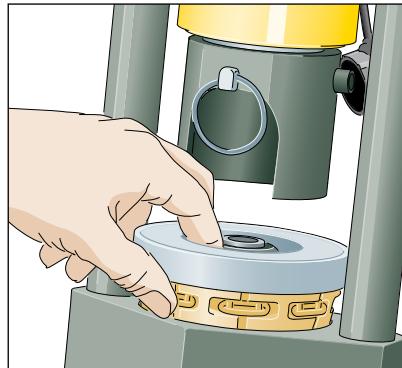
2. Pull pin and drop hinged die-train in place. Pay attention to die segment location.



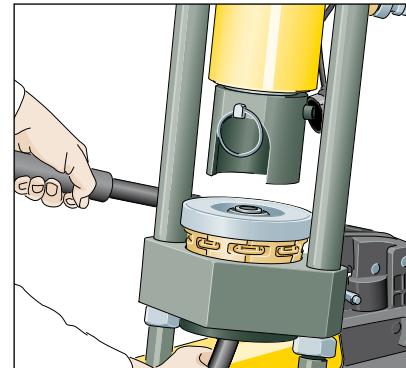
3. Insert fitting into the dies. Release, fitting will self position.



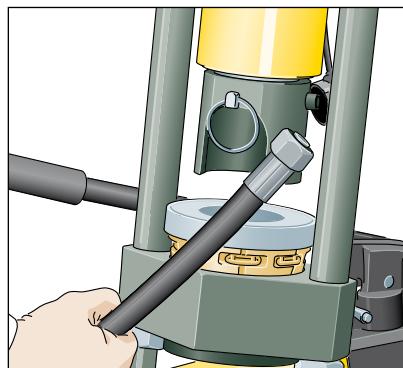
3. (a) Position the fitting on the die step.



4. Place die ring on top of the dies.



5. Position cylinder and replace pin. Pump until die ring contacts base plate.



6. Release pressure  
– remove finished assembly.

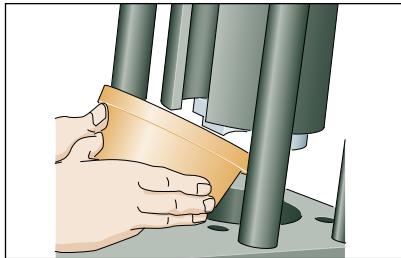
## Parkrimp® 2

Parkrimp® fittings 26, 43, 46, 48, 70, 71, 73, 77, 78, 79 and S6 series size -4 up to -32

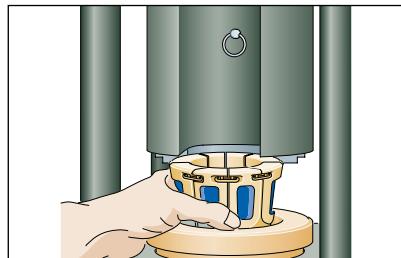
### For one-piece die sets 80C- ... and 83C- ... size -4 to -16



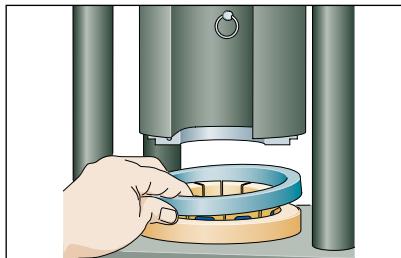
With the pusher in the full up position, lift the back half of the split die ring. Lock it in the up position by pushing the slide pin in (the slide pin is located inside the pusher at the back).



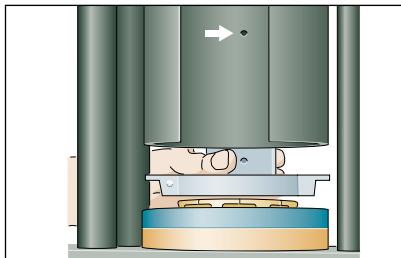
Carefully insert the adapter bowl into the base bowl. The adapter bowl must be tilted toward the back of the crimper during insertion.



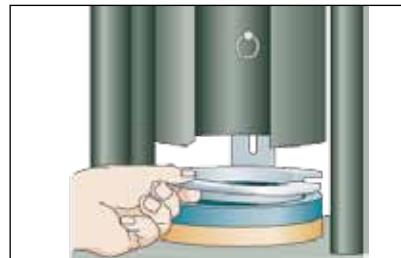
Insert the proper size and series die set into the adapter bowl.  
Note: die sets are colour coded by size and have the fitting series and dash size stamped on the top.  
Pay attention to die segment location.



When swaging 43 series fittings on 100R2, 100R3, 100R4 and 100R9 type hose, the black spacer ring must be placed.

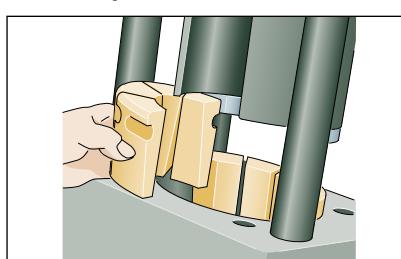


Lower the back half of the split die ring onto the dies by pulling the slide pin forward.

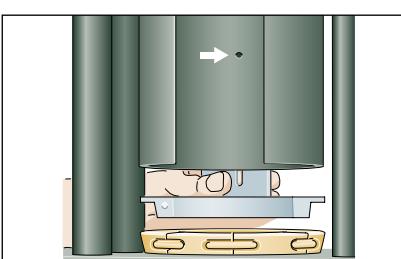


Insert the front half of the split die ring aligning the pin in the half with the hole in the front half.

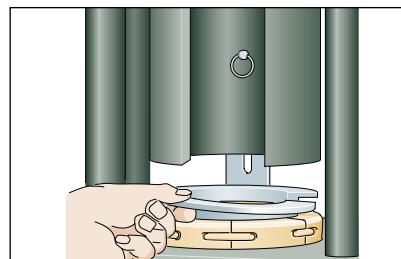
### For two-piece die sets 83C-... size -20 to -32



Insert the proper size die set into the die bowl (the die sets are in two halves of four dies each; Place one half in the back and one half in the front to facilitate removal of bent tube fittings).



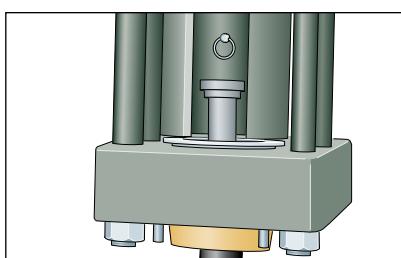
Lower the back half of the split die ring onto the dies by pulling the slide pin forward.



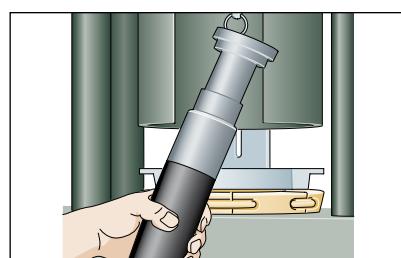
Insert the front half of the split die ring aligning the pin in the half with the hole in the front half.



Parkalign® feature  
Position hose from below in dies.  
Rest bottom of coupling on die step.



Turn on the pump by pressing the button on the left hand switch box. Lower the pusher by pressing the lower button on the right hand switch box. When the die ring contacts the base plate, the swaging is complete.



Push the black button at the top of the switch box to open dies and remove the finished assembly.  
You do not have to remove any tooling to remove or insert straight fittings. The front half of the split die ring and the front die train must be removed to insert and remove bent tube fittings.

# KarryKrimp® 1

## 26 Series

|       |      |                 | Hose type         |                |                                |                                 |                   |       |       |       |         | Die set       | Die ring     |
|-------|------|-----------------|-------------------|----------------|--------------------------------|---------------------------------|-------------------|-------|-------|-------|---------|---------------|--------------|
| Inch  | Size | Hose I.D.<br>mm |                   | Fitting series | E<br>Insertion<br>length<br>mm | A<br>Length<br>$\pm 0.50$<br>mm | Crimp<br>diameter |       |       |       |         | R01<br>silver | R02<br>black |
| 3/16  | -4   | 5.0             | 213 / 285 / 293   | 26             | 21                             | 12.20                           | 11.70             | 12.20 | 11.30 | 11.80 | 80C-E04 | X             |              |
| 3/16  | -4   | 5.0             | 201 / 206         | 26             | 21                             | 12.20                           | 12.70             | 13.20 | 12.30 | 12.80 | 80C-E04 |               | X            |
| 1/4   | -5   | 6.3             | 213               | 26             | 21                             | 12.20                           | 13.20             | 13.70 | 12.85 | 13.35 | 80C-E05 | X             |              |
| 1/4   | -5   | 6.3             | 201 / 206 / 221FR | 26             | 21                             | 12.20                           | 14.25             | 14.75 | 13.85 | 14.35 | 80C-E05 |               | X            |
| 5/16  | -6   | 8.0             | 213 / 285 / 293   | 26             | 21                             | 12.20                           | 14.60             | 15.10 | 14.25 | 14.75 | 80C-E06 | X             |              |
| 5/16  | -6   | 8.0             | 201 / 206 / 221FR | 26             | 21                             | 12.20                           | 15.65             | 16.15 | 15.25 | 15.75 | 80C-E06 |               | X            |
| 13/32 | -8   | 10.0            | 213 / 285 / 293   | 26             | 21                             | 12.20                           | 17.05             | 17.55 | 16.65 | 17.15 | 80C-E08 | X             |              |
| 13/32 | -8   | 10.0            | 201 / 206 / 221FR | 26             | 21                             | 12.20                           | 18.05             | 18.55 | 17.65 | 18.15 | 80C-E08 |               | X            |
| 1/2   | -10  | 12.5            | 213 / 285 / 293   | 26             | 22                             | 14.70                           | 20.45             | 20.95 | 20.05 | 20.55 | 80C-E10 | X             |              |
| 1/2   | -10  | 12.5            | 201 / 206 / 221FR | 26             | 22                             | 14.70                           | 21.45             | 21.95 | 21.10 | 21.60 | 80C-E10 |               | X            |
| 5/8   | -12  | 16.0            | 213 / 285 / 293   | 26             | 22                             | 14.70                           | 23.25             | 23.75 | 22.85 | 23.35 | 80C-E12 | X             |              |
| 5/8   | -12  | 16.0            | 201 / 206 / 221FR | 26             | 22                             | 14.70                           | 24.25             | 24.75 | 23.90 | 24.40 | 80C-E12 |               | X            |
| 7/8   | -16  | 22.0            | 213 / 285 / 293   | 26             | 25                             | 15.50                           | 29.85             | 30.35 | 29.45 | 29.95 | 80C-E16 | X             |              |
| 7/8   | -16  | 22.0            | 201 / 206 / 221FR | 26             | 25                             | 15.50                           | 30.85             | 31.35 | 30.50 | 31.00 | 80C-E16 |               | X            |

KarryKrimp 1 is not suitable for crimping stainless steel fittings.

Dimensions shown may be changed at any time without prior notice. These crimping tables are intended as a guide. Before crimping hoses and fittings it must be ensured that you have the most recent crimping dimensions. Please contact your local Parker sales office or HPDE\_Helpdesk@parker.com

Crimp Charts Status: 2014-06-11

# KarryKrimp® 1

## 43 Series

| Hose I.D. |      |      |      | Hose type | Fitting series | Die set    | Die ring  | Insert depth | Crimp diameter |       |
|-----------|------|------|------|-----------|----------------|------------|-----------|--------------|----------------|-------|
| DN        | Inch | Size | mm   |           |                | R01 silver | R02 black | mm           | mm             | mm    |
| 10        | 3/8  | -6   | 9.5  | 722TC     | 43             | 80C-A06    | X         | 29           | 21.95          | 22.45 |
| 12        | 1/2  | -8   | 12.7 | 722TC     | 43             | 80C-A08    | X         | 33           | 25.00          | 25.50 |
| 16        | 5/8  | -10  | 15.9 | 722TC     | 43             | 80C-A10    | X         | 40           | 27.95          | 28.45 |
| 19        | 3/4  | -12  | 19.1 | 722TC     | 43             | 80C-A12    | X         | 38           | 32.65          | 33.15 |
| 25        | 1    | -16  | 25.4 | 722TC     | 43             | 80C-A16    | X         | 44           | 41.40          | 41.90 |

KarryKrimp 1 is not suitable for crimping stainless steel fittings.

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Crimp Charts Status: 2014-06-11

# KarryKrimp® 1

## 46 Series

| Hose I.D. |       |      |      | Hose type   | Fitting series | Die set    | Die ring  | Insert depth | Crimp diameter |
|-----------|-------|------|------|---|----------------|------------|-----------|--------------|----------------|
| DN        | Inch  | Size | mm   |   |                | R01 silver | R02 black | mm           | mm             |
| 6         | 1/4   | -4   | 6.4  | 492 / 492ST / 692                                     | 46             | 80C-B04    | X         | 23           | 14.35 14.85    |
| 6         | 1/4   | -4   | 6.4  | 441 / 441RH / 461LT / 462 / 462ST / 462TC             | 46             | 80C-B04    | X         | 23           | 15.35 15.85    |
| 8         | 5/16  | -5   | 7.9  | 492 / 492ST / 692                                     | 46             | 80C-B05    | X         | 23           | 16.15 16.65    |
| 8         | 5/16  | -5   | 7.9  | 441 / 441RH / 461LT / 462 / 462ST / 462TC / 463       | 46             | 80C-B05    | X         | 23           | 17.15 17.65    |
| 10        | 3/8   | -6   | 9.5  | 492 / 492ST / 692                                     | 46             | 80C-B06    | X         | 22           | 19.30 19.80    |
| 10        | 3/8   | -6   | 9.5  | 441 / 441RH / 461LT / 462 / 462ST / 462TC / 463       | 46             | 80C-B06    | X         | 22           | 20.35 20.85    |
| 12        | 1/2   | -8   | 12.7 | 492 / 492ST   | 46             | 80C-B08    | X         | 24           | 22.35 22.85    |
| 12        | 1/2   | -8   | 12.7 | 441 / 441RH / 461LT / 462 / 462ST / 462TC / 463 / 692 | 46             | 80C-B08    | X         | 24           | 23.35 23.85    |
| 16        | 5/8   | -10  | 15.9 | 492 / 492ST   | 46             | 80C-B10    | X         | 25           | 25.65 26.15    |
| 16        | 5/8   | -10  | 15.9 | 441 / 441RH / 461LT / 462 / 462ST / 462TC / 692       | 46             | 80C-B10    | X         | 25           | 26.65 27.15    |
| 19        | 3/4   | -12  | 19.1 | 492 / 492ST   | 46             | 80C-B12    | X         | 25           | 29.45 29.95    |
| 19        | 3/4   | -12  | 19.1 | 441 / 441RH / 461LT / 462 / 462ST / 462TC             | 46             | 80C-B12    | X         | 25           | 30.50 31.00    |
| 25        | 1     | -16  | 25.4 | 492 / 492ST   | 46             | 80C-B16    | X         | 29           | 37.10 37.60    |
| 25        | 1     | -16  | 25.4 | 441 / 441RH / 461LT / 462 / 462ST / 462TC             | 46             | 80C-B16    | X         | 29           | 38.10 38.60    |
| 31        | 1 1/4 | -20  | 31.8 | 492 / 492ST   | 46             | 80C-B20    | X         | 35           | 43.95 44.45    |
| 31        | 1 1/4 | -20  | 31.8 | 462-WR  | 46             | 80C-B20    | X         | 35           | 44.95 45.45    |

KarryKrimp 1 is not suitable for crimping stainless steel fittings.

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Crimp Charts Status: 2014-06-11

# KarryKrimp® 1

## 48 Series

|    | Hose I.D. |      |      | Hose type  | Fitting series | Die set    | Die ring  | Insert depth | Crimp diameter |
|----|-----------|------|------|--|----------------|------------|-----------|--------------|----------------|
| DN | Inch      | Size | mm   |  |                | R01 silver | R02 black | mm           | mm             |
| 6  | 1/4       | -4   | 6.4  | 351TC / 421SN / 422 / 441 / 441RH / 451TC / 461LT / 462 / 462CLF / 462ST / 462TC / 471TC / 477 / 477ST / 493             | 48             | 800-C04    | X         | 22           | 16.40 16.90    |
| 6  | 1/4       | -4   | 6.4  | 301SN / 302 / 304 / 421WC / 601  | 48             | 800-C04    | X         | 22           | 17.40 17.90    |
| 8  | 5/16      | -5   | 7.9  | 421SN / 422 / 441 / 461LT / 462 / 462CLF / 462ST / 462TC / 471TC / 477 / 477ST / 493                                     | 48             | 800-C05    | X         | 24           | 18.05 18.55    |
| 8  | 5/16      | -5   | 7.9  | 301SN / 302  | 48             | 800-C05    | X         | 24           | 19.05 19.55    |
| 10 | 3/8       | -6   | 9.5  | 351TC / 421SN / 422 / 436 / 441 / 441RH / 451TC / 461LT / 462 / 462CLF / 462ST / 462TC / 471TC / 477 / 477ST / 493       | 48             | 800-C06    | X         | 22           | 20.35 20.85    |
| 10 | 3/8       | -6   | 9.5  | 301SN / 302  | 48             | 800-C06    | X         | 22           | 21.35 21.85    |
| 12 | 1/2       | -8   | 12.7 | 351TC / 421SN / 422 / 426 / 436 / 441 / 441RH / 451TC / 461LT / 462 / 462CLF / 462ST / 462TC / 471TC / 477 / 477ST / 493 | 48             | 800-C08    | X         | 24           | 23.35 23.85    |
| 12 | 1/2       | -8   | 12.7 | 301SN / 302  | 48             | 800-C08    | X         | 24           | 24.40 24.90    |
| 16 | 5/8       | -10  | 15.9 | 351TC / 421SN / 422 / 426 / 436 / 441 / 441RH / 451TC / 461LT / 462 / 462CLF / 462ST / 462TC / 471TC / 477 / 477ST       | 48             | 800-C10    | X         | 25           | 26.65 27.15    |
| 16 | 5/8       | -10  | 15.9 | 301SN / 302  | 48             | 800-C10    | X         | 25           | 27.70 28.20    |
| 19 | 3/4       | -12  | 19.1 | 351TC / 421SN / 422 / 426 / 436 / 441 / 441RH / 451TC / 461LT / 462 / 462CLF / 462ST / 462TC / 471TC / 477 / 477ST       | 48             | 800-C12    | X         | 25           | 30.50 31.00    |
| 19 | 3/4       | -12  | 19.1 | 301SN / 302  | 48             | 800-C12    | X         | 25           | 31.50 32.00    |
| 25 | 1         | -16  | 25.4 | 421SN / 422 / 426 / 436 / 441 / 441RH / 451TC / 461LT / 462 / 462CLF / 462ST / 462TC / 471TC / 477 / 477ST               | 48             | 800-C16    | X         | 30           | 38.10 38.60    |
| 25 | 1         | -16  | 25.4 | 301SN / 302  | 48             | 800-C16    | X         | 30           | 39.05 39.55    |
| 31 | 1 1/4     | -20  | 31.8 | 421RH / 421SN / 422 / 426 / 462TC / 472TC  | 48             | 800-C20    | X         | 46           | 50.05 50.55    |
| 31 | 1 1/4     | -20  | 31.8 | 301SN / 302 / 304 / 811 / 881  | 48             | 800-C20    | X         | 46           | 51.05 51.55    |

KarryKrimp 1 is not suitable for crimping stainless steel fittings.

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Crimp Charts Status: 2014-06-11

# KarryKrimp® 2

## 26 Series

| Hose I.D. |      |      | Hose type         | Fitting series | E<br>Insertion<br>length<br>mm | A<br>Length<br>$\pm 0.50$<br>mm | Crimp<br>diameter         |                           |                           |                           | Die set | R01<br>silver | R02<br>black |
|-----------|------|------|-------------------|----------------|--------------------------------|---------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------|---------------|--------------|
| Inch      | Size | mm   |                   |                |                                |                                 | $\varnothing B$ min<br>mm | $\varnothing B$ max<br>mm | $\varnothing C$ min<br>mm | $\varnothing C$ max<br>mm |         |               |              |
| 3/16      | -4   | 5.0  | 213 / 285 / 293   | 26             | 21                             | 12.20                           | 11.70                     | 12.20                     | 11.30                     | 11.80                     | 80C-E04 | X             |              |
| 3/16      | -4   | 5.0  | 201 / 206         | 26             | 21                             | 12.20                           | 12.70                     | 13.20                     | 12.30                     | 12.80                     | 80C-E04 |               | X            |
| 1/4       | -5   | 6.3  | 213               | 26             | 21                             | 12.20                           | 13.20                     | 13.70                     | 12.85                     | 13.35                     | 80C-E05 | X             |              |
| 1/4       | -5   | 6.3  | 201 / 206 / 221FR | 26             | 21                             | 12.20                           | 14.25                     | 14.75                     | 13.85                     | 14.35                     | 80C-E05 |               | X            |
| 5/16      | -6   | 8.0  | 213 / 285 / 293   | 26             | 21                             | 12.20                           | 14.60                     | 15.10                     | 14.25                     | 14.75                     | 80C-E06 | X             |              |
| 5/16      | -6   | 8.0  | 201 / 206 / 221FR | 26             | 21                             | 12.20                           | 15.65                     | 16.15                     | 15.25                     | 15.75                     | 80C-E06 |               | X            |
| 13/32     | -8   | 10.0 | 213 / 285 / 293   | 26             | 21                             | 12.20                           | 17.05                     | 17.55                     | 16.65                     | 17.15                     | 80C-E08 | X             |              |
| 13/32     | -8   | 10.0 | 201 / 206 / 221FR | 26             | 21                             | 12.20                           | 18.05                     | 18.55                     | 17.65                     | 18.15                     | 80C-E08 |               | X            |
| 1/2       | -10  | 12.5 | 213 / 285 / 293   | 26             | 22                             | 14.70                           | 20.45                     | 20.95                     | 20.05                     | 20.55                     | 80C-E10 | X             |              |
| 1/2       | -10  | 12.5 | 201 / 206 / 221FR | 26             | 22                             | 14.70                           | 21.45                     | 21.95                     | 21.10                     | 21.60                     | 80C-E10 |               | X            |
| 5/8       | -12  | 16.0 | 213 / 285 / 293   | 26             | 22                             | 14.70                           | 23.25                     | 23.75                     | 22.85                     | 23.35                     | 80C-E12 | X             |              |
| 5/8       | -12  | 16.0 | 201 / 206 / 221FR | 26             | 22                             | 14.70                           | 24.25                     | 24.75                     | 23.90                     | 24.40                     | 80C-E12 |               | X            |
| 7/8       | -16  | 22.0 | 213 / 285 / 293   | 26             | 25                             | 15.50                           | 29.85                     | 30.35                     | 29.45                     | 29.95                     | 80C-E16 | X             |              |
| 7/8       | -16  | 22.0 | 201 / 206 / 221FR | 26             | 25                             | 15.50                           | 30.85                     | 31.35                     | 30.50                     | 31.00                     | 80C-E16 |               | X            |

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# KarryKrimp® 2

## 43 Series

| Hose I.D. |      |      |      | Hose type | Fitting series | Die set       | Die ring     | Insert depth | Crimp diameter |       |
|-----------|------|------|------|-----------|----------------|---------------|--------------|--------------|----------------|-------|
| DN        | Inch | Size | mm   |           |                | R01<br>silver | R02<br>black | mm           | mm             | mm    |
| 10        | 3/8  | -6   | 9.5  | 722TC     | 43             | 80C-A06       | X            | 29           | 21.95          | 22.45 |
| 12        | 1/2  | -8   | 12.7 | 722TC     | 43             | 80C-A08       | X            | 33           | 25.00          | 25.50 |
| 16        | 5/8  | -10  | 15.9 | 722TC     | 43             | 80C-A10       | X            | 40           | 27.95          | 28.45 |
| 19        | 3/4  | -12  | 19.1 | 722TC     | 43             | 80C-A12       | X            | 38           | 32.65          | 33.15 |
| 25        | 1    | -16  | 25.4 | 722TC     | 43             | 80C-A16       | X            | 44           | 41.40          | 41.90 |

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Crimp Charts Status: 2014-06-11



# KarryKrimp® 2

## 46 Series

| Hose I.D. |       |      |      | Hose type   | Fitting series | Die set | Die ring      |              | Insert depth | Crimp diameter |       |
|-----------|-------|------|------|---|----------------|---------|---------------|--------------|--------------|----------------|-------|
| DN        | Inch  | Size | mm   |   |                |         | R01<br>silver | R02<br>black | mm           | mm             | mm    |
| 6         | 1/4   | -4   | 6.4  | 492 / 492ST / 692                                     | 46             | 80C-B04 | X             |              | 23           | 14.35          | 14.85 |
| 6         | 1/4   | -4   | 6.4  | 441 / 441RH / 461LT / 462 / 462ST / 462TC             | 46             | 80C-B04 |               | X            | 23           | 15.35          | 15.85 |
| 8         | 5/16  | -5   | 7.9  | 492 / 492ST / 692                                     | 46             | 80C-B05 | X             |              | 23           | 16.15          | 16.65 |
| 8         | 5/16  | -5   | 7.9  | 441 / 441RH / 461LT / 462 / 462ST / 462TC / 463       | 46             | 80C-B05 |               | X            | 23           | 17.15          | 17.65 |
| 10        | 3/8   | -6   | 9.5  | 492 / 492ST / 692                                     | 46             | 80C-B06 | X             |              | 22           | 19.30          | 19.80 |
| 10        | 3/8   | -6   | 9.5  | 441 / 441RH / 461LT / 462 / 462ST / 462TC / 463       | 46             | 80C-B06 |               | X            | 22           | 20.35          | 20.85 |
| 12        | 1/2   | -8   | 12.7 | 492 / 492ST   | 46             | 80C-B08 | X             |              | 24           | 22.35          | 22.85 |
| 12        | 1/2   | -8   | 12.7 | 441 / 441RH / 461LT / 462 / 462ST / 462TC / 463 / 692 | 46             | 80C-B08 |               | X            | 24           | 23.35          | 23.85 |
| 16        | 5/8   | -10  | 15.9 | 492 / 492ST   | 46             | 80C-B10 | X             |              | 25           | 25.65          | 26.15 |
| 16        | 5/8   | -10  | 15.9 | 441 / 441RH / 461LT / 462 / 462ST / 462TC / 692       | 46             | 80C-B10 |               | X            | 25           | 26.65          | 27.15 |
| 19        | 3/4   | -12  | 19.1 | 492 / 492ST   | 46             | 80C-B12 | X             |              | 25           | 29.45          | 29.95 |
| 19        | 3/4   | -12  | 19.1 | 441 / 441RH / 461LT / 462 / 462ST / 462TC             | 46             | 80C-B12 |               | X            | 25           | 30.50          | 31.00 |
| 25        | 1     | -16  | 25.4 | 492 / 492ST   | 46             | 80C-B16 | X             |              | 29           | 37.10          | 37.60 |
| 25        | 1     | -16  | 25.4 | 441 / 441RH / 461LT / 462 / 462ST / 462TC             | 46             | 80C-B16 |               | X            | 29           | 38.10          | 38.60 |
| 31        | 1 1/4 | -20  | 31.8 | 492 / 492ST   | 46             | 80C-B20 | X             |              | 35           | 43.95          | 44.45 |
| 31        | 1 1/4 | -20  | 31.8 | 462-WR  | 46             | 80C-B20 |               | X            | 35           | 44.95          | 45.45 |

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Crimp Charts Status: 2014-06-11

# KarryKrimp® 2

## 48 Series

| Hose I.D. |       |      |      | Hose type  | Fitting series | Die set    | Die ring  | Insert depth | Crimp diameter |       |
|-----------|-------|------|------|--|----------------|------------|-----------|--------------|----------------|-------|
| DN        | Inch  | Size | mm   |  |                | R01 silver | R02 black | mm           | mm             |       |
| 6         | 1/4   | -4   | 6.4  | 351TC / 421SN / 422 / 441 / 441RH / 451TC / 461LT / 462 / 462CLF / 462ST / 462TC / 471TC / 477 / 477ST / 493             | 48             | 800-C04    | X         | 22           | 16.40          | 16.90 |
| 6         | 1/4   | -4   | 6.4  | 301SN / 302 / 304 / 421WC / 601  | 48             | 800-C04    | X         | 22           | 17.40          | 17.90 |
| 8         | 5/16  | -5   | 7.9  | 421SN / 422 / 441 / 461LT / 462 / 462CLF / 462ST / 462TC / 471TC / 477 / 477ST / 493                                     | 48             | 800-C05    | X         | 24           | 18.05          | 18.55 |
| 8         | 5/16  | -5   | 7.9  | 301SN / 302  | 48             | 800-C05    | X         | 24           | 19.05          | 19.55 |
| 10        | 3/8   | -6   | 9.5  | 351TC / 421SN / 422 / 436 / 441 / 441RH / 451TC / 461LT / 462 / 462CLF / 462ST / 462TC / 471TC / 477 / 477ST / 493       | 48             | 800-C06    | X         | 22           | 20.35          | 20.85 |
| 10        | 3/8   | -6   | 9.5  | 301SN / 302  | 48             | 800-C06    | X         | 22           | 21.35          | 21.85 |
| 12        | 1/2   | -8   | 12.7 | 351TC / 421SN / 422 / 426 / 436 / 441 / 441RH / 451TC / 461LT / 462 / 462CLF / 462ST / 462TC / 471TC / 477 / 477ST / 493 | 48             | 800-C08    | X         | 24           | 23.35          | 23.85 |
| 12        | 1/2   | -8   | 12.7 | 301SN / 302  | 48             | 800-C08    | X         | 24           | 24.40          | 24.90 |
| 16        | 5/8   | -10  | 15.9 | 351TC / 421SN / 422 / 426 / 436 / 441 / 441RH / 451TC / 461LT / 462 / 462CLF / 462ST / 462TC / 471TC / 477 / 477ST       | 48             | 800-C10    | X         | 25           | 26.65          | 27.15 |
| 16        | 5/8   | -10  | 15.9 | 301SN / 302  | 48             | 800-C10    | X         | 25           | 27.70          | 28.20 |
| 19        | 3/4   | -12  | 19.1 | 351TC / 421SN / 422 / 426 / 436 / 441 / 441RH / 451TC / 461LT / 462 / 462CLF / 462ST / 462TC / 471TC / 477 / 477ST       | 48             | 800-C12    | X         | 25           | 30.50          | 31.00 |
| 19        | 3/4   | -12  | 19.1 | 301SN / 302  | 48             | 800-C12    | X         | 25           | 31.50          | 32.00 |
| 25        | 1     | -16  | 25.4 | 421SN / 422 / 426 / 436 / 441 / 441RH / 451TC / 461LT / 462 / 462CLF / 462ST / 462TC / 471TC / 477 / 477ST               | 48             | 800-C16    | X         | 30           | 38.10          | 38.60 |
| 25        | 1     | -16  | 25.4 | 301SN / 302  | 48             | 800-C16    | X         | 30           | 39.05          | 39.55 |
| 31        | 1 1/4 | -20  | 31.8 | 421RH / 421SN / 422 / 426 / 462TC / 472TC  | 48             | 800-C20    | X         | 46           | 50.05          | 50.55 |
| 31        | 1 1/4 | -20  | 31.8 | 301SN / 302 / 304 / 811 / 881  | 48             | 800-C20    | X         | 46           | 51.05          | 51.55 |

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Crimp Charts Status: 2014-06-11

**KarryKrimp® 2****70, 71, 73, 77, 78 Series**

| Hose I.D. |       |      |      | Hose type                               | Fitting series | Die set    | Die ring  | Insert depth | Crimp diameter     | 1) Stainless Steel |
|-----------|-------|------|------|---|----------------|------------|-----------|--------------|--------------------|--------------------|
| DN        | Inch  | Size | mm   |   |                | R01 silver | R02 black | mm           | mm   mm            |                    |
| 10        | 3/8   | -6   | 9.5  | 371LT / 372 / 372RH / 372TC / 701       | 70             | 83C-D06    |           | X            | 27   25.15   25.65 | ◆                  |
| 12        | 1/2   | -8   | 12.7 | 371LT / 372 / 372RH / 372TC / 701 / F42 | 70             | 83C-D08    |           | X            | 33   28.95   29.45 | ◆                  |
| 12        | 1/2   | -8   | 12.7 | 772LT                                   | 71             | 83C-D08    |           | X            | 33   27.95   28.45 | ◆                  |
| 12        | 1/2   | -8   | 12.7 | 787TC / 797TC                           | 77             | 80C-CS08   |           | X            | 35   23.65   24.15 |                    |
| 16        | 5/8   | -10  | 15.9 | 371LT / 372 / 372RH / 372TC / 701       | 70             | 83C-D10    |           | X            | 35   32.00   32.50 | ◆                  |
| 16        | 5/8   | -10  | 15.9 | 772LT                                   | 71             | 83C-D10    |           | X            | 36   31.00   31.50 | ◆                  |
| 16        | 5/8   | -10  | 15.9 | 787TC / 797TC                           | 77             | 80C-CS10   |           | X            | 39   26.85   27.35 |                    |
| 19        | 3/4   | -12  | 19.1 | 371LT / 372 / 372RH / 372TC / 701       | 70             | 83C-D12    |           | X            | 38   35.40   35.90 | ◆                  |
| 19        | 3/4   | -12  | 19.1 | 774 / 772LT                             | 71             | 83C-D12    |           | X            | 37   34.40   34.90 | ◆                  |
| 19        | 3/4   | -12  | 19.1 | 731                                     | 73             | 80C-L12    |           | X            | 48   36.05   36.55 |                    |
| 19        | 3/4   | -12  | 19.1 | 787TC / 797TC                           | 77             | 80C-CS12   |           | X            | 45   31.65   32.15 |                    |
| 19        | 3/4   | -12  | 19.1 | 781 / 782TC                             | 78             | 80C-L12    |           | X            | 48   36.05   36.55 | ◆                  |
| 25        | 1     | -16  | 25.4 | 371LT / 372 / 372RH / 372TC / 701       | 70             | 83C-D16    |           | X            | 46   44.05   44.55 | ◆                  |
| 25        | 1     | -16  | 25.4 | 774 / 772LT                             | 71             | 83C-D16    |           | X            | 45   43.05   43.55 | ◆                  |
| 25        | 1     | -16  | 25.4 | 731                                     | 73             | 80C-L16    |           | X            | 51   43.95   44.45 |                    |
| 25        | 1     | -16  | 25.4 | 781 / 782TC                             | 78             | 80C-L16    |           | X            | 51   43.95   44.45 | ◆                  |
| 31        | 1 1/4 | -20  | 31.8 | 774 / 772LT / 721TC                     | 71             | 83C-D20    |           | X            | 46   51.45   51.95 |                    |

1) Crimp diameters for stainless steel fittings can be up to 0.25 mm larger than for standard steel fittings.

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Crimp Charts Status: 2014-06-11

# Parkrimp® 2

## 26 Series

| Hose I.D. |      |      | Hose type         | Fitting series | E<br>Insertion<br>length<br>mm | A<br>Length<br>mm | Crimp<br>diameter |               |               |       | Die set | Die ring<br>83C-R02 | Base plate<br>83C-R02H | Adapter<br>bowl<br>83C-0CB |
|-----------|------|------|-------------------|----------------|--------------------------------|-------------------|-------------------|---------------|---------------|-------|---------|---------------------|------------------------|----------------------------|
| Inch      | Size | mm   |                   |                | ±0.50<br>mm                    | Ø B min<br>mm     | Ø B max<br>mm     | Ø C min<br>mm | Ø C max<br>mm |       |         |                     |                        |                            |
| 3/16      | -4   | 5.0  | 213 / 285 / 293   | 26             | 21                             | 12.20             | 11.70             | 12.20         | 11.30         | 11.80 | 80C-E04 |                     |                        | X                          |
| 3/16      | -4   | 5.0  | 201 / 206         | 26             | 21                             | 12.20             | 12.70             | 13.20         | 12.30         | 12.80 | 80C-E04 | X                   |                        | X                          |
| 1/4       | -5   | 6.3  | 213               | 26             | 21                             | 12.20             | 13.20             | 13.70         | 12.85         | 13.35 | 80C-E05 |                     |                        | X                          |
| 1/4       | -5   | 6.3  | 201 / 206 / 221FR | 26             | 21                             | 12.20             | 14.25             | 14.75         | 13.85         | 14.35 | 80C-E05 | X                   |                        | X                          |
| 5/16      | -6   | 8.0  | 213 / 285 / 293   | 26             | 21                             | 12.20             | 14.60             | 15.10         | 14.25         | 14.75 | 80C-E06 |                     |                        | X                          |
| 5/16      | -6   | 8.0  | 201 / 206 / 221FR | 26             | 21                             | 12.20             | 15.65             | 16.15         | 15.25         | 15.75 | 80C-E06 | X                   |                        | X                          |
| 13/32     | -8   | 10.0 | 213 / 285 / 293   | 26             | 21                             | 12.20             | 17.05             | 17.55         | 16.65         | 17.15 | 80C-E08 |                     |                        | X                          |
| 13/32     | -8   | 10.0 | 201 / 206 / 221FR | 26             | 21                             | 12.20             | 18.05             | 18.55         | 17.65         | 18.15 | 80C-E08 | X                   |                        | X                          |
| 1/2       | -10  | 12.5 | 213 / 285 / 293   | 26             | 22                             | 14.70             | 20.45             | 20.95         | 20.05         | 20.55 | 80C-E10 |                     |                        | X                          |
| 1/2       | -10  | 12.5 | 201 / 206 / 221FR | 26             | 22                             | 14.70             | 21.45             | 21.95         | 21.10         | 21.60 | 80C-E10 | X                   |                        | X                          |
| 5/8       | -12  | 16.0 | 213 / 285 / 293   | 26             | 22                             | 14.70             | 23.25             | 23.75         | 22.85         | 23.35 | 80C-E12 |                     |                        | X                          |
| 5/8       | -12  | 16.0 | 201 / 206 / 221FR | 26             | 22                             | 14.70             | 24.25             | 24.75         | 23.90         | 24.40 | 80C-E12 | X                   |                        | X                          |
| 7/8       | -16  | 22.0 | 213 / 285 / 293   | 26             | 25                             | 15.50             | 29.85             | 30.35         | 29.45         | 29.95 | 80C-E16 |                     |                        | X                          |
| 7/8       | -16  | 22.0 | 201 / 206 / 221FR | 26             | 25                             | 15.50             | 30.85             | 31.35         | 30.50         | 31.00 | 80C-E16 | X                   |                        | X                          |
| 1 1/8     | -20  | 29.0 | 213               | 26             | 25                             | 16.50             | 36.05             | 36.55         | 35.70         | 36.20 | 83C-E20 |                     |                        |                            |
| 1 1/8     | -20  | 29.0 | 201 / 206         | 26             | 25                             | 16.50             | 37.10             | 37.60         | 36.70         | 37.20 | 83C-E20 |                     | X                      |                            |
| 1 3/8     | -24  | 35.0 | 213               | 26             | 27                             | 16.50             | 42.40             | 42.90         | 42.05         | 42.55 | 83C-E24 |                     |                        |                            |
| 1 3/8     | -24  | 35.0 | 201 / 206         | 26             | 27                             | 16.50             | 43.45             | 43.95         | 43.05         | 43.55 | 83C-E24 |                     | X                      |                            |
| 1 13/16   | -32  | 46.0 | 213               | 26             | 32                             | 22.90             | 54.85             | 55.35         | 54.50         | 55.00 | 83C-E32 |                     |                        |                            |
| 1 13/16   | -32  | 46.0 | 201 / 206         | 26             | 32                             | 22.90             | 55.90             | 56.40         | 55.50         | 56.00 | 83C-E32 |                     | X                      |                            |

Dimensions shown may be changed at any time without prior notice. These crimping tables are intended as a guide. Before crimping hoses and fittings it must be ensured that you have the most recent crimping dimensions. Please contact your local Parker sales office or HPDE\_Helpdesk@parker.com

Crimp Charts Status: 2014-06-11



# Parkrim® 2

## 43 Series

| Hose I.D. |      |      |      | Hose type | Fitting series | Die set | 1)<br>83C-R02 | 2)<br>83C-R02H | 3)<br>83C-0CB | Insert depth<br>mm | Crimp diameter<br>mm | Crimp diameter<br>mm |
|-----------|------|------|------|-----------|----------------|---------|---------------|----------------|---------------|--------------------|----------------------|----------------------|
| DN        | Inch | Size | mm   |           |                |         |               |                |               |                    |                      |                      |
| 10        | 3/8  | -6   | 9.5  | 722TC     | 43             | 80C-A06 | X             |                | X             | 29                 | 21.95                | 22.45                |
| 12        | 1/2  | -8   | 12.7 | 722TC     | 43             | 80C-A08 | X             |                | X             | 33                 | 25.00                | 25.50                |
| 16        | 5/8  | -10  | 15.9 | 722TC     | 43             | 80C-A10 | X             |                | X             | 40                 | 27.95                | 28.45                |
| 19        | 3/4  | -12  | 19.1 | 722TC     | 43             | 80C-A12 | X             |                | X             | 38                 | 32.65                | 33.15                |
| 25        | 1    | -16  | 25.4 | 722TC     | 43             | 80C-A16 | X             |                | X             | 44                 | 41.40                | 41.90                |

1) die ring

2) base plate

3) adapter bowl

Dimensions shown may be changed at any time without prior notice. These crimping tables are intended as a guide. Before crimping hoses and fittings it must be ensured that you have the most recent crimping dimensions. Please contact your local Parker sales office or HPDE\_Helpdesk@parker.com

Crimp Charts Status: 2014-06-11

# Parkrimp® 2

## 46 Series

| Hose I.D. |       |      |      | Hose type   | Fitting series | Die set | 1)      | 2)       | 3)      | Insert depth | Crimp diameter |
|-----------|-------|------|------|---|----------------|---------|---------|----------|---------|--------------|----------------|
| DN        | Inch  | Size | mm   |   |                |         | 83C-R02 | 83C-R02H | 83C-0CB | mm           | mm             |
| 6         | 1/4   | -4   | 6.4  | 492 / 492ST / 692                                     | 46             | 80C-B04 |         | X        |         | 23           | 14.35          |
| 6         | 1/4   | -4   | 6.4  | 441 / 441RH / 461LT / 462 / 462ST / 462TC             | 46             | 80C-B04 | X       | X        | 23      | 15.35        | 15.85          |
| 8         | 5/16  | -5   | 7.9  | 492 / 492ST / 692                                     | 46             | 80C-B05 |         | X        |         | 23           | 16.15          |
| 8         | 5/16  | -5   | 7.9  | 441 / 441RH / 461LT / 462 / 462ST / 462TC / 463       | 46             | 80C-B05 | X       | X        | 23      | 17.15        | 17.65          |
| 10        | 3/8   | -6   | 9.5  | 492 / 492ST / 692                                     | 46             | 80C-B06 |         | X        |         | 22           | 19.30          |
| 10        | 3/8   | -6   | 9.5  | 441 / 441RH / 461LT / 462 / 462ST / 462TC / 463       | 46             | 80C-B06 | X       | X        | 22      | 20.35        | 20.85          |
| 12        | 1/2   | -8   | 12.7 | 492 / 492ST   | 46             | 80C-B08 |         |          | X       | 24           | 22.35          |
| 12        | 1/2   | -8   | 12.7 | 441 / 441RH / 461LT / 462 / 462ST / 462TC / 463 / 692 | 46             | 80C-B08 | X       | X        | 24      | 23.35        | 23.85          |
| 16        | 5/8   | -10  | 15.9 | 492 / 492ST   | 46             | 80C-B10 |         | X        |         | 25           | 25.65          |
| 16        | 5/8   | -10  | 15.9 | 441 / 441RH / 461LT / 462 / 462ST / 462TC / 692       | 46             | 80C-B10 | X       | X        | 25      | 26.65        | 27.15          |
| 19        | 3/4   | -12  | 19.1 | 492 / 492ST   | 46             | 80C-B12 |         |          | X       | 25           | 29.45          |
| 19        | 3/4   | -12  | 19.1 | 441 / 441RH / 461LT / 462 / 462ST / 462TC             | 46             | 80C-B12 | X       | X        | 25      | 30.50        | 31.00          |
| 25        | 1     | -16  | 25.4 | 492 / 492ST   | 46             | 80C-B16 |         |          | X       | 29           | 37.10          |
| 25        | 1     | -16  | 25.4 | 441 / 441RH / 461LT / 462 / 462ST / 462TC             | 46             | 80C-B16 | X       | X        | 29      | 38.10        | 38.60          |
| 31        | 1 1/4 | -20  | 31.8 | 492 / 492ST   | 46             | 80C-B20 |         |          | X       | 35           | 43.95          |
| 31        | 1 1/4 | -20  | 31.8 | 462-WR  | 46             | 80C-B20 | X       | X        | 35      | 44.95        | 45.45          |

1) die ring

2) base plate

3) adapter bowl

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Crimp Charts Status: 2014-06-11

**Parkrimp® 2****48 Series**

| Hose I.D. |       |      |      | Hose type  | Fitting series | Die set  | 83C-R02 | 83C-R02H | 83C-OCB | Insert depth | Crimp diameter | Stainless Steel |       |
|-----------|-------|------|------|--|----------------|----------|---------|----------|---------|--------------|----------------|-----------------|-------|
| DN        | Inch  | Size | mm   |  |                |          |         |          |         | mm           | mm             | mm              |       |
| 6         | 1/4   | -4   | 6.4  | 351TC / 421SN / 422 / 441 / 441RH / 451TC / 461LT / 462 / 462CLF / 462ST / 462TC / 471TC / 477 / 477ST / 493             | 48             | 80C-C04  |         |          | X       | 22           | 16.40          | 16.90           |       |
| 6         | 1/4   | -4   | 6.4  | 301SN / 302 / 304 / 421WC / 601  | 48             | 80C-C04  |         | X        | X       | 22           | 17.40          | 17.90           |       |
| 8         | 5/16  | -5   | 7.9  | 421SN / 422 / 441 / 461LT / 462 / 462CLF / 462ST / 462TC / 471TC / 477 / 477ST / 493                                     | 48             | 80C-C05  |         |          | X       | 24           | 18.05          | 18.55           |       |
| 8         | 5/16  | -5   | 7.9  | 301SN / 302  | 48             | 80C-C05  |         | X        | X       | 24           | 19.05          | 19.55           |       |
| 10        | 3/8   | -6   | 9.5  | 351TC / 421SN / 422 / 436 / 441 / 441RH / 451TC / 461LT / 462 / 462CLF / 462ST / 462TC / 471TC / 477 / 477ST / 493       | 48             | 80C-C06  |         |          | X       | 22           | 20.35          | 20.85           |       |
| 10        | 3/8   | -6   | 9.5  | 301SN / 302  | 48             | 80C-C06  |         | X        | X       | 22           | 21.35          | 21.85           |       |
| 12        | 1/2   | -8   | 12.7 | 351TC / 421SN / 422 / 426 / 436 / 441 / 441RH / 451TC / 461LT / 462 / 462CLF / 462ST / 462TC / 471TC / 477 / 477ST / 493 | 48             | 80C-C08  |         |          | X       | 24           | 23.35          | 23.85           |       |
| 12        | 1/2   | -8   | 12.7 | 301SN / 302  | 48             | 80C-C08  |         | X        | X       | 24           | 24.40          | 24.90           |       |
| 16        | 5/8   | -10  | 15.9 | 351TC / 421SN / 422 / 426 / 436 / 441 / 441RH / 451TC / 461LT / 462 / 462CLF / 462ST / 462TC / 471TC / 477 / 477ST       | 48             | 80C-C10  |         |          | X       | 25           | 26.65          | 27.15           |       |
| 16        | 5/8   | -10  | 15.9 | 301SN / 302  | 48             | 80C-C10  |         | X        | X       | 25           | 27.70          | 28.20           |       |
| 19        | 3/4   | -12  | 19.1 | 351TC / 421SN / 422 / 426 / 436 / 441 / 441RH / 451TC / 461LT / 462 / 462CLF / 462ST / 462TC / 471TC / 477 / 477ST       | 48             | 80C-C12  |         |          | X       | 25           | 30.50          | 31.00           |       |
| 19        | 3/4   | -12  | 19.1 | 301SN / 302  | 48             | 80C-C12  |         | X        | X       | 25           | 31.50          | 32.00           |       |
| 19        | 3/4   | -12  | 19.1 | 811  | 48             | 80C-C12  |         | X        | (4)     | X            | 25             | 32.50           | 33.00 |
| 25        | 1     | -16  | 25.4 | 421SN / 422 / 426 / 436 / 441 / 441RH / 451TC / 461LT / 462 / 462CLF / 462ST / 462TC / 471TC / 477 / 477ST               | 48             | 80C-C16  |         |          | X       | 30           | 38.10          | 38.60           |       |
| 25        | 1     | -16  | 25.4 | 301SN / 302  | 48             | 80C-C16  |         | X        | X       | 30           | 39.05          | 39.55           |       |
| 25        | 1     | -16  | 25.4 | 811  | 48             | 80C-C16  |         | X        | (4)     | X            | 30             | 40.05           | 40.55 |
| 31        | 1 1/4 | -20  | 31.8 | 421RH / 421SN / 422 / 426 / 462 / 462CLF / 462ST / 462TC / 462TC / 472TC   | 48             | 80C-C20  |         |          | X       | 46           | 50.05          | 50.55           |       |
| 31        | 1 1/4 | -20  | 31.8 | 421RH / 421SN / 422 / 426 / 462 / 462CLF / 462ST / 462TC / 462TC / 472TC   | 48             | 83C-C20H |         |          |         | 46           | 50.05          | 50.55           |       |
| 31        | 1 1/4 | -20  | 31.8 | 301SN / 302 / 304 / 811 / 881  | 48             | 80C-C20  |         | X        | X       | 46           | 51.05          | 51.55           |       |
| 31        | 1 1/4 | -20  | 31.8 | 301SN / 302 / 304 / 811 / 881  | 48             | 83C-C20H |         | X        |         | 46           | 51.05          | 51.55           |       |
| 38        | 1 1/2 | -24  | 38.1 | 421RH / 421SN / 422 / 426 / 462 / 462TC / 472TC  | 48             | 83C-C24  |         |          |         | 37           | 58.15          | 58.65           |       |
| 38        | 1 1/2 | -24  | 38.1 | 301SN / 302 / 304 / 811 / 881  | 48             | 83C-C24  |         |          | X       | 37           | 59.15          | 59.65           |       |
| 51        | 2     | -32  | 50.8 | 421RH / 421SN / 422 / 426 / 462 / 462TC / 472TC  | 48             | 83C-C32  |         |          |         | 47           | 69.45          | 69.95           |       |
| 51        | 2     | -32  | 50.8 | 301SN / 302 / 304 / 811 / 881  | 48             | 83C-C32  |         | X        |         | 47           | 70.45          | 70.95           |       |

1) die ring

2) base plate

3) adapter bowl

4) put plate 83C-R02H between adaptor bowl 83C-OCB and ring 83C-R02

5) Crimp diameters for stainless steel fittings can be up to 0.25 mm larger than for standard steel fittings.

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Crimp Charts Status: 2014-06-11



# Adjustable Crimper

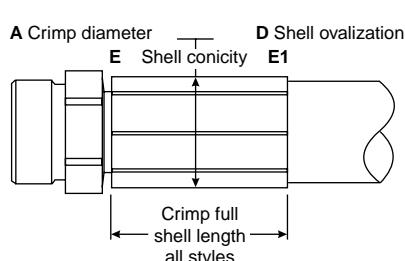
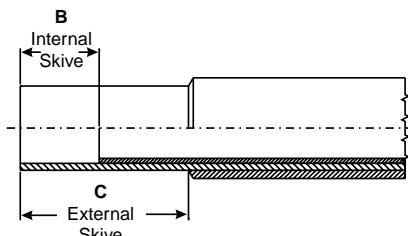
## V4/V5/V6 Series

| Hose I.D. |       |      |      | Hose type                                 | Fitting series | Skiving length     | Crimp diameter     | Shell ovalization | Shell conicity | Die set | Length min. |
|-----------|-------|------|------|---|----------------|--------------------|--------------------|-------------------|----------------|---------|-------------|
| DN        | Inch  | Size | mm   |   |                | internal<br>± 1 mm | external<br>± 1 mm | ± 0.2 mm          |                |         | mm          |
| 10        | 3/8   | -6   | 9.5  | R56TC                                     | V5             | 12.0               | 36.0               | 24.20             | 0.2            | 0.3     | PB239 24    |
| 12        | 1/2   | -8   | 12.7 | R56TC                                     | V5             | 13.0               | 43.0               | 30.00             | 0.2            | 0.3     | PB239 28    |
| 16        | 5/8   | -10  | 15.9 | R42TC / R42 / R42ST                       | V4             | 14.5               | 50.0               | 30.40 *)          | 0.2            | 0.6     | PB239 28    |
| 16        | 5/8   | -10  | 15.9 | H31TC / H31 / H31ST                       | V4             | 14.5               | 50.0               | 30.40             | 0.2            | 0.6     | PB239 28    |
| 16        | 5/8   | -10  | 15.9 | R50TC                                     | V4             | 14.5               | 50.0               | 30.10             | 0.2            | 0.6     | PB239 28    |
| 19        | 3/4   | -12  | 19.1 | H31TC / R35TC / H31 / R35 / H31ST         | V4             | 15.0               | 52.0               | 33.90             | 0.2            | 0.6     | PB239 32    |
| 19        | 3/4   | -12  | 19.1 | R50TC                                     | V4             | 15.0               | 52.0               | 34.40             | 0.2            | 0.6     | PB239 32    |
| 19        | 3/4   | -12  | 19.1 | H29TC / R42TC / H29 / R42 / H29ST / R42ST | V4             | 15.0               | 52.0               | 33.90 *)          | 0.2            | 0.6     | PB239 32    |
| 25        | 1     | -16  | 25.4 | H31TC / H31 / H31ST                       | V4             | 17.0               | 65.0               | 41.60             | 0.2            | 0.6     | PB239L 40   |
| 25        | 1     | -16  | 25.4 | R50TC                                     | V4             | 17.0               | 65.0               | 42.20             | 0.2            | 0.6     | PB239L 40   |
| 25        | 1     | -16  | 25.4 | H29TC / R42TC / H29 / R42 / H29ST / R42ST | V4             | 17.0               | 65.0               | 42.50 *)          | 0.2            | 0.6     | PB239L 40   |
| 25        | 1     | -16  | 25.4 | R35TC / R35                               | V4             | 17.0               | 65.0               | 42.50             | 0.2            | 0.6     | PB239L 40   |
| 31        | 1 1/4 | -20  | 31.8 | R35TC / R35                               | V4             | 21.5               | 74.0               | 50.20             | 0.3            | 1.0     | PB239L 50   |
| 31        | 1 1/4 | -20  | 31.8 | H29TC / H29 / H29ST                       | V4             | 21.5               | 74.0               | 50.20 *)          | 0.3            | 1.0     | PB239L 50   |
| 31        | 1 1/4 | -20  | 31.8 | R50TC                                     | V6             | 22.0               | 58.0               | 57.00             | 0.2            | 0.6     | PB232L 54   |
| 31        | 1 1/4 | -20  | 31.8 | R42TC / R42 / R42ST                       | V6             | 22.0               | 58.0               | 55.50 *)          | 0.3            | 1.0     | PB232L 54   |
| 38        | 1 1/2 | -24  | 38.1 | H29ST / H29 / H29ST                       | V4             | 22.0               | 81.0               | 57.30 *)          | 0.3            | 1.0     | PB232L 57   |
| 38        | 1 1/2 | -24  | 38.1 | R42TC / R42 / R42ST                       | V6             | 22.0               | 65.0               | 63.20 *)          | 0.3            | 1.0     | PB232L 62   |
| 38        | 1 1/2 | -24  | 38.1 | R35TC / R35                               | V6             | 22.0               | 65.0               | 63.20             | 0.3            | 1.0     | PB232L 62   |
| 51        | 2     | -32  | 50.8 | H29ST / H29 / H29ST                       | V4             | 29.0               | 85.0               | 73.50 *)          | 0.3            | 1.0     | PB232L 71   |
| 51        | 2     | -32  | 50.8 | R42TC / R42 / R42ST                       | V6             | 22.0               | 75.0               | 78.00 *)          | 0.3            | 1.0     | PB232L 78   |
| 51        | 2     | -32  | 50.8 | R35TC / R35                               | V6             | 22.0               | 75.0               | 77.30             | 0.3            | 1.0     | PB232L 74   |
| 63        | 2 1/2 | -40  | 63.5 | R35TC                                     | V6             | 30.0               | 99.0               | 94.00             | 0.3            | 1.0     | SPPB554 92  |
| 76        | 3     | -48  | 76.2 | RS35TC                                    | V6             | 22.0               | 75.0               | 99.60             | 0.3            | 1.0     | PB232L 96   |

\*) Stainless Steel

Double swaging of shells should be avoided as it detrimentally influences the functionality and reduces the service life of the hose assembly.

It must be ensured that the crimper has enough crimping force to crimp the fitting and that the swage-dies are of sufficient length to cover the entire length of the shell.

**Only for use with adjustable crimpers****- Minimum of 340 tons crimping force required for size -32****- Minimum of 400 tons crimping force for size -40 and -48****Crimp Information****Skive Information**

1. Use a vernier calliper to carry out two measurements at 90° in the middle of the shell (D). The ovaling is the difference between the min and the max measured diameters.
2. Use a vernier calliper to carry out two 90° opposed measurements on the shell surfaces as indicated (E - E1). The conicity is the difference between the medium diameter value E minus the medium diameter value E1, (E1 should not be greater than E)

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Crimp Charts Status: 2014-06-11

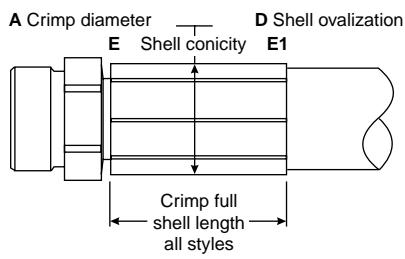
# Adjustable Crimper

## VS Series

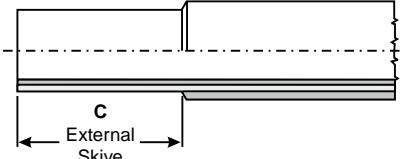
| Hose I.D. |      |      |      | Hose type           | Fitting series | Skiving length            |                           | Crimp diameter  | Shell ovalization | Shell conicity | Die set | Length min. |    |
|-----------|------|------|------|---------------------|----------------|---------------------------|---------------------------|-----------------|-------------------|----------------|---------|-------------|----|
| DN        | Inch | Size | mm   |                     |                | internal<br>$\pm 1$<br>mm | external<br>$\pm 1$<br>mm | $\pm 0.2$<br>mm |                   |                |         | mm          |    |
| 6         | 1/4  | -4   | 6.4  | H31TC / H31 / H31ST | VS             |                           |                           | 29.0            | 19.80             | 0.2            | 0.6     | PB239 20    | 50 |
| 10        | 3/8  | -6   | 9.5  | H31TC / H31 / H31ST | VS             |                           |                           | 28.0            | 23.50             | 0.2            | 0.6     | PB239 20    | 60 |
| 12        | 1/2  | -8   | 12.7 | H31TC / H31 / H31ST | VS             |                           |                           | 32.0            | 26.50             | 0.2            | 0.6     | PB239 24    | 60 |

### Only for use with adjustable crimpers

#### Crimp Information



#### Skive Information



1. Use a vernier calliper to carry out two measurements at 90° in the middle of the shell (D). The ovaling is the difference between the min and the max measured diameters.
2. Use a vernier calliper to carry out two 90° opposed measurements on the shell surfaces as indicated (E - E1). The conicity is the difference between the medium diameter value E minus the medium diameter value E1, (E1 should not be greater than E)

Dimensions shown may be changed at any time without prior notice. These crimping tables are intended as a guide. Before crimping hoses and fittings it must be ensured that you have the most recent crimping dimensions. Please contact your local Parker sales office or [HPDE\\_Helpdesk@parker.com](mailto:HPDE_Helpdesk@parker.com)

Crimp Charts Status: 2014-06-11

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