

Tooling & Equipment

GOODYEAR

PERMA-CRIMP™

PC125M

Description: Carried to the job site, using a handle and support stand, the PC125M is ideal for portable crimping I requirements. Whether carried on-site, or used in a vehicle, or even stationary at the shop, the PC125M is designed as a low volume crimper or for occasional use. Crimp diameter is set and controlled with an easy to read micrometer. This affordable crimper is packaged in component parts to fit the need of the user. The PC125M has three power options. No electrical power source required if using the hand or pneumatic pump option. A 1/2 HP, 110V electric pump is available as well. The PC125M includes die ring pusher, stand, compression ring, pressure plate and a metric micrometer. Pumps and dies are purchased separately



Features:

- Easy to read, fully adjustable metric micrometer allows precise setting of crimp diameters to an accuracy of +/- .1mm.
- Open design with vertical feed for good operator visibility.
- Removable pusher and spring loaded die set for easy loading.
- 35 ton cylinder
- Two piece, "slide in" die design for easy installation
- Lightweight for portable field use
- Color coded die sets to speed die selection and set-up
- Attach hand, air or electric pump

Capability:

- 1/4" through 1 1/4" ID, 2 wire braid hose and 1" ID 4-spiral hose with all coupling end styles including most bent tubes.

Power Source:

- Optional Two Stage Hand Pump, 10,000 psi (PC125-HPump)
- Optional Air/Hydraulic Pump, 10,000 psi using 80 psi air (PC125-PPump)
- Optional 1/2 HP 110VAC, single phase, 50-60 Hz Electric Pump (PC125M-.5EPump) with foot switch

Oil Capacity: 1 gallon

Mounting: Stand included

Dimensions: 14" deep x 11" wide x 23.5" high

Weight: 45 lbs

Dies:

Part Number	ID	Part Number	ID
PC125-8.5Black	8.5mm	PC125-27Brown	27mm
PC125-12Black	12mm	PC125-31Silver	31mm
PC125-14Red	14mm	PC125-16Blue	16mm
PC125-34Purple	34mm	PC125-41Orange	41mm
PC125-19Green	19mm	PC125-45Black	45mm
PC125-23Yellow	23mm	PC125-50Black	50mm

Options:

- PC125M-Skit includes the PC125M crimper and 5 die sets including 16mm, 19mm, 23mm, 31mm, 41mm dies for 1/4" to 1" 1-braid and 2-braid hose.
- PC125-Shelf-Black Die Storage Shelf Unit 13" deep x 12.5" wide x 15" high, 12 lbs
- PC125-Hpump—Two Stage Hand Pump
- PC125-Ppump-Air/Hydraulic Pump
- PC125M-.5EPump-1/2 HP, 110V Electric Pump

Replacement Parts:

- PC125M-Pusher-Die Ring Pusher
- PC125-Cring-Compression Ring
- PC125-Plate-Pressure Plate
- PC125-Die Screw-Die Screw
- PC125-Die Spring—Die Spring
- PC125-Hpump—Optional Two Stage Hand Pump
- PC125-Ppump—Optional Air/Hydraulic Pump
- PC125M-.5EPump-Optional 1/2 HP, 110V Electric Pump
- PC900-Grease-3 oz.-High Pressure grease in a 3 oz. tube
- PC900-Grease-1 lb.-High Pressure grease in a 1 lb. can
- PC900-AerosolLube-High Pressure grease in an aerosol can



Electric Pump
(PC125M-.5EPump)



Metric
Micrometer



PC125 Die Set



PC125 Die
Storage Shelf



Hand Pump
(PC125 HPump)



Air/Hydraulic Pump
(PC125-PPump)

Purveyor of
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Fluid Components

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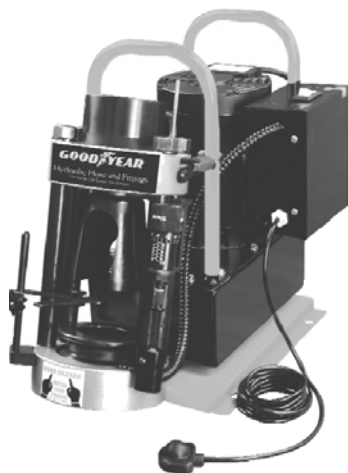
Tooling & Equipment

GOODYEAR

PERMA-CRIMP™

PC125

Description: The PC125 portable crimper with its open design, removable pusher and easy to use, spring loaded die set, is designed for higher production volume and repetitive use. Crimp diameter is set and controlled with an easy to read micrometer. The PC125 is packaged for shop service and includes the crimper and 1 HP, 110V electric pump on a common base, compression ring, pressure plate, magnetized die ring pusher, stop/start remote pendant switch, metric micrometer, adjustable coupling stop, metric micrometer, adjustable coupling stop and adjustable retraction stop.



Features:

- Easy to read, fully adjustable metric micrometer allows precise setting of crimp diameters to an accuracy of +/- .1mm
- Open design with vertical feed for good operator visibility.
- Removable pusher and spring loaded die set for easy loading
- Magnetized pusher to attach compression ring for repetitive use
- 35 ton cylinder
- Automatic shut off for precise crimps
- Adjustable Retraction Stop limits ram retractions for quick repetitive crimps
- Adjustable coupling stop for accurate, repetitive positioning of the assembly inside the dies
- Two piece, "slide in" die design for easy installation.
- Common base for bench mounting
- Color coded die sets to speed die selection and set-up
- 1 HP, HOV pump
- Pneumatic activation (no electric wires) of remote pendant switch

Capability:

- 1/4" through 1 1/4" ID, 2 wire braid hose and 1" ID 4-spiral hose with all coupling end styles including most bent tubes.

Power Source:

- 1 HP 110V AC, single phase 50-60 Hz, Electric Pump (PC125/150-E1PUMP) with pneumatic stop/start pendant switch

Oil Capacity: 1 gallon

Mounting: Crimper and pump installed on plate

Dimensions: 20" deep x 11" wide x 19" tall

Weight: 125 lbs

Dies:

Part Number	ID	Part Number	ID
PC125-8.5Black	8.5mm	PC125-27Brown	27mm
PC125-12Black	12mm	PC125-31Silver	31mm
PC125-14Red	14mm	PC125-16Blue	16mm
PC125-34Purple	34mm	PC125-41Orange	41mm
PC125-19Green	19mm	PC125-45Black	45mm
PC125-23Yellow	23mm	PC125-50Black	50mm

Options:

- PC 125-Skit includes the PC125 crimper and 5 die sets including 16mm, 19mm, 23mm, 31mm, 41mm dies for 1/4" to 1" 1-braid and 2-braid hose.
- PC125-Shelf-Black Die Storage Shelf 13" deep x 12.5" wide x 15" high, 12 lbs

Replacement Parts:

- PC125-Pusher-Die Ring Pusher with magnets
- PC125-Cring—Compression Ring
- PC125-Pplate-Pressure Plate
- PC125-Cstop-Adjustable Coupling Stop
- PC125-Die Screw-Die Screw
- PC125-Die Spring—Die Spring
- PC125-Switch-Pneumatic Start/Stop Pendant Switch for 1 HP Pump
- PC125/150-E1Pump-1 HP 110V Electric Pump
- PC900-Grease-3 oz.—High Pressure grease in a 3 oz. tube
- PC900-Grease-1 lb.—High Pressure grease in a 1 lb. can
- PC900-AerosolLube—High Pressure grease in an aerosol can



Metric
Micrometer



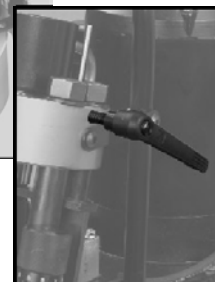
PC125 Die
Storage Shelf



PC125 Die Set



PC125
Coupling Stop



PC125 Retraction Stop



PC125 Magnetic
Pusher

Tooling & Equipment

GOODYEAR

PERMA-CRIMP™

PC150 Series

Including PC150-1 and PC150-2

Description: The PC150 is a stationary crimper with more power to manufacture factory quality hose assemblies, quickly and easily. Its open design with removable pusher and "slide in" die configuration allows for good visibility and easy loading of dies and hose assemblies. Crimp diameter is set and controlled with an easy to read micrometer. Designed to handle higher volumes in a shop environment, the PCI 50-2 includes the crimper and 2 HP pump on a common base, pressure plate, compression ring, die ring pusher, stop/start remote pendant switch, metric micrometer, adjustable coupling stop, adjustable retraction stop and work light. The optional PC150-1 includes all the components of the PCI 50-2 and a 1 HP pump.

Features:

- Easy to read, fully adjustable metric micrometer allows precise set-ring of crimp diameters to an accuracy of +/- .1mm
- Open design with vertical feed for good operator visibility
- Removable pusher and spring loaded die set for easy loading
- 80 ton cylinder
- Automatic shut off for precise crimps
- Adjustable Retraction Stop limits ram retractions for quick repetitive crimps
- Adjustable coupling stop for accurate, repetitive positioning of the assembly inside the dies
- Two piece, "slide in" die set for easy installation.
- Common base for bench mounting
- Color coded die sets to speed die selection and set-up
- 2 HP, 220V pump
- Pneumatic activation (no electric wires) of remote pendant switch

Capability:

- 1/4" through 1 1/2" ID, 2 wire braid hose and 4-spiral hose with all coupling styles and most bent tubes

Power Source:

- 2 HP 220V AC, single phase, 50-60 Hz Electric Pump (PC150-E2Pump) for PC150-2 crimper
- Optional 1 HP 110VAC, single phase, 50-60 Hz Electric Pump (PC125/150-E1Pump) for PC150-1 crimper

Oil Capacity: 1 gallon

Mounting: Crimper and pump installed on plate

Dimensions: 32" deep x 16.5" wide x 29" high

Weight: 275 lbs



Dies:

Part Number	ID	Part Number	ID
PC150-8.5Black	8.5mm	PC150-27Brown	27mm
PC150-12Black	12mm	PC150-31Silver	31mm
PC150-14Red	14mm	PC150-34Purple	41mm
PC150-16Blue	16mm	PC150-41Orange	34mm
PC150-19Green	19mm	PC150-45Black	45mm
PC150-23Yellow	23mm	PC150-50Black	50mm
		PC150-56Black	56mm

Options:

- PC150-2Skit includes PCI 50-2 crimper and 7 die sets including 16mm, 19mm, 23mm, 31mm, 41mm, 50mm, 56mm dies for 1/4" to 1 1/2" 1-braid to 4-spiral hose.
- PC150-ISkit includes PC150-1 crimper and 7 die sets including 16mm, 19mm, 23mm, 31mm, 41mm, 50mm, 56mm dies for 1/4" to 1 1/2" 1-braid to 4-spiral hose.
- PC150-Shelf-Black Die Storage Shelf Unit 15" deep x 20.5" wide x 16" high, 25 lbs
- PC150-Spacer-Spacer Kit for Elbows
- PC150-1 with 1 HP Pump

Replacement Parts:

- PC150-Pusher-Die Ring Pusher
- PCI 50-Cring— Compression Ring
- PC150-Pplate-Pressure Plate
- PC150-Cstop-Adjustable Coupling Stop
- PC150-Die Screw-Die Screw
- PC150-Die Spring—Die Spring
- PC125/150-Switch-Pneumatic Start/Stop Pendant Switch for 1 HP or 2 HP Pump
- PC150-E2Pump-2 HP Electric Pump for PCI 50-2 Crimper
- PC125/150-E1Pump-1 HP Electric Pump for PC150-1 Crimper
- PC900-Grease-3 oz.-High Pressure grease in a 3 oz. tube
- PC900-Grease-1 lb.—High Pressure grease in a 1 lb. can
- PC900-AerosolLube-High Pressure grease in an aerosol can



Metric
Micrometer



PC150 Die Set



PC150
Coupling Stop



PC150 Retraction Stop



Phone 1-800-989-1770

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Tooling & Equipment



PERMA-CRIMP™

PC200 Series

Including PC200-1 and PC200-2

Description: The PC200 is a high volume, high capacity, stationary crimper, utilizing microprocessor control for the fastest, most accurate crimping system available. Crimp settings, dwell time, pre-set start positions and PC200-1 auto/manual operation are all easily set with electronic controls. This production crimper is a quick and easy way to make factory quality hose assemblies. The standard package is the PC200-1 crimper which includes a 7.5 HP, 230V/3 phase pump and foot pedal. The optional PC200-2 crimper includes a 7.5 HP, 480V/3 phase pump and foot pedal.



Features:

- Hose feed is horizontal from both front or rear.
- Accurate Electronic PLC Crimp Diameter Adjustment
- Manual or automatic mode
- Max Die Size +75 mm
- 340 ton cylinder
- Automatic shut off for precise crimps
- Power return stroke and return limit control
- Rapid retraction of die fingers through hydraulic system
- Die Sets easily changed using hand tool
- Accommodates bent tube/elbow couplings with the ability of installing 2", 90 degree fittings on both ends.

Capability:

- 1/4" through 2" ID, 2 wire braid hose and 2" 6 spiral hose with all coupling end styles including most bent tubes.

Power Source:

- 7.5 HP, 230V AC, 3 phase, 60 Hz (PC200-E7.5-1Pump)
- Optional 7.5 HP 480V AC, 3 phase, 60 Hz (PC200-E7.5-2Pump) for the PC200-2 crimper.

Oil Capacity: 8 gallon **Mounting:** Bench or cabinet

Dimensions: 18.5" deep x 27.5" wide x 31.5" high (without die cabinet)

Weight: 573 lbs (excluding cabinet)

Dies:

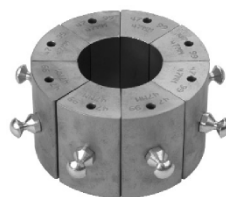
Part Number	ID	Part Number	ID
PC200-8.5	8.5mm	PC200-34	34mm
PC200-12	12mm	PC200-41	41mm
PC200-14	14mm	PC200-45	45mm
PC200-16	16mm	PC200-50	50mm
PC200-19	19mm	PC200-56	56mm
PC200-23	23mm	PC200-62	62mm
PC200-27	27mm	PC200-69	69mm
PC200-31	31mm	PC200-74	74mm
		PC200-78	78mm

Options:

- PC200-ISkit includes the PC200-1 crimper and 10 die sets including 16mm, 19mm, 23mm, 31mm, 41mm, 50mm, 56mm, 62mm, 69mm, 75mm dies for 1/4" to 2" 1-braid to 6-spiral hose.
- PC200-2Skit includes the PC200-2 crimper and 10 die sets including 16mm, 19mm, 23mm, 31mm, 41mm, 50mm, 56mm, 62mm, 69mm, 75mm dies for 1/4" to 2" 1-braid to 6-spiral hose.
- PC200-Rack-Black Die Cabinet 20" deep x 30" wide x 29" high •PC200-MBS-Manual Back Stop
- PC200-EBS-Electric Back Stop

Replacement Parts:

- PC900-Grease-lib-High Pressure grease in a 1 lb. can PC900-AerosolLube-High Pressure grease in



PC200 Die Set



Foot Switch



Control Panel



Die Cabinet



Tooling & Equipment

GOODYEAR

SAWS

SW101

Description: Designed to cut, 1-wire braid and 2-wire braid hydraulic hose up to 1 1/2" ID. **Features:**

- Radius hose feed into blade for reduced friction
- Reversible scallop edge blade design for extended life
- Includes 115 volt power cord and plug
- U.L. listed (Electrical)

Blade Dimensions:

- 8" scalloped blade (Replacement part number - SW200)

Shaft Diameter: 5/8"

Power Source:

- 1 1/2 HP (2.6 HP Peak), single phase, 115V 60 Hz, 15 amps
- This unit will operate on standard 20 amp service.

Speed: 3500 Max RPM

Dimensions: 13" wide x 24" long x 17" high

Weight: 65 lbs



SW102

Description: Designed to cut, 1-wire braid, 2-wire braid and 6-spiral hydraulic hose up to 2" ID. **Features:**

- Radius hose feed into blade for reduced friction
- Reversible scallop edge blade design for extended life
- Designed for direct electrical hook-up. No power cord.
- U.L. Listed (Electrical)

Blade Dimensions:

- 10" scalloped blade (Replacement part number - SW201)

Shaft Diameter: 3/4"

Power Source:

- 3 HP (5.2 HP Peak), single phase, 230V, 60 Hz, 15 amps
- An electrician is recommended for direct line hook-up.

Speed: 3500 Max RPM

Dimensions: 22" wide x 42" long x 24" high

Weight: 130 lbs



SW103

Description: Designed to cut, 1-wire braid, 2-wire braid, 4-spiral and 6-spiral hydraulic hose up to 2" ID. Includes skiver.

Features:

- Wire brush skiving attachment for up to 2" ID wire braid hose
- Radius hose feed into blade for reduced friction
- Reversible scallop edge blade design for extended life
- Designed for direct electrical hook-up. No power cord.
- U.L. Listed (Electrical)

Blade Dimensions:

- 10" scalloped blade (Replacement part number - SW201)

Shaft Diameter: 3/4"

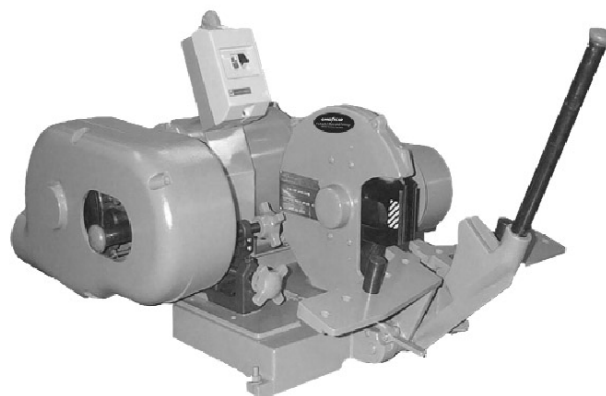
Power Source:

- 3 HP (5.2 HP Peak), single phase, 230V, 60 Hz, 14 amps
- An electrician is recommended for direct line hook-up.

Speed: 3500 Max RPM

Dimensions: 24" wide x 42" long x 24" high

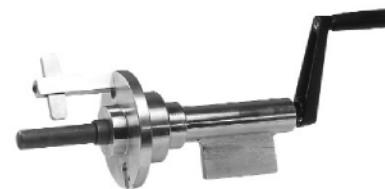
Weight: 183 lbs



Tooling & Equipment

MANUEL HOSE SKIVING TOOL

GOODYEAR



Holder

- Manual skiving device designed for field service smaller workshops and service vans.
- Suitable for both internal and external skiving.
- Quickly and easily mounted to a vice
- Separate tooling available for 3/16"-1" ID (short arm) and 1-1/4"-2" ID (long arm)



Part Number

- SK01 = Holder only (A)
SK02 = Holder with 3.9" short arm (A)
SK05 = Holder with 4.9" long arm (A)

HoseCapacity: 3/16" to 2" ID

Color: Zinc Plating

Length: 19.6"

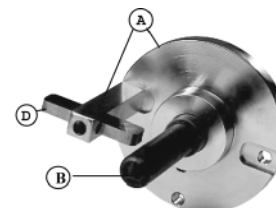
Weight: 8.8 lbs

Options:

- External skiving tools (see following specifications)
- Internal skiving tools (see following specifications)

External Skiving Tool

This is a very robust and sturdy tool, suitable for skiving spiral and braided hoses from 3/16" to 2"ID. A complete tool consists of a holder with one arm (A), a mandrel (B), a double arm (C), which is optional, and two, external skiving knives (D). Each knife has 4, sharp edges.



Material (Holder): Stainless Steel 1914, zinc plated

Material (Mandrel): Stainless Steel 1672, hardened

Weight: 8.8 lbs

Short Arm

Part Number

- SK03 = Double, Short Arm, 3.9" (C)
SK04 = External Skiving Knife for Short Arm (D)



Mandrels:

Part Number	Size	Skiving Length
SK04-03	3/16"	.9-1.5"
SK04-04	1/4"	.9-1.5"
SK04-05	5/16"	.9-1.6"
SK04-06	3/8"	.9-1.8"
SK04-08	1/2"	.9-1.8"
SK04-10	5/8"	.9-2.6"
SK04-12	3/4"	.9-2.6"
SK04-16	1"	.9-2.4"

Long Arm

Part Number

- SK06 = Double, Long Arm, 4.9" (C)
SK04 = External Skiving Knife for Lon Arm (D)

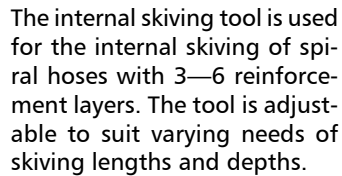
Mandrels:

Part Number	Size	Skiving Length
SK04-20	1-1/4"	1.8-3.3"
SK04-24	1-1/2"	1.8-3.3"
SK04-32	2"	1.8-3.3"

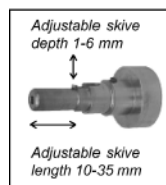
Tooling & Equipment



INTERNAL SKIVING TOOL



Adjustable Skive Length: .4-1.4"
Adjustable Skive Depth: .04-.2"



Weight: .7-1.1 lbs

Part Number	Description
SK10-06	3/8" Internal Skiving Tool
SKI 1-06	3/8" Knife
SK10-08	1/2" Internal Skiving Tool
SKI 1-08	1/2" Knife
SK10-10	5/8" Internal Skiving Tool
SKI 1-10	5/8" Knife (Also used for 3/4")
SK10-12	3/4" Internal Skiving Tool
SKI 1-10	3/4" Knife (Also used for 5/8")
SK10-16	1" Internal Skiving Tool
SKI 1-16	1" Knife (Also used for 1 1/4")
SK10-20	1 1/4" Internal Skiving Tool
SKI 1-16	1 1/4" Knife (Also used for 1")
SK10-24	1 1/2" Internal Skiving Tool
SKI 1-24	1 1/2" Knife (Also used for 2")
SK10-32	2" Internal Skiving Tool
SKI 1-24	2" Knife (Also used for 1



Tooling & Equipment

Model 624 Manual Bender

Specifications

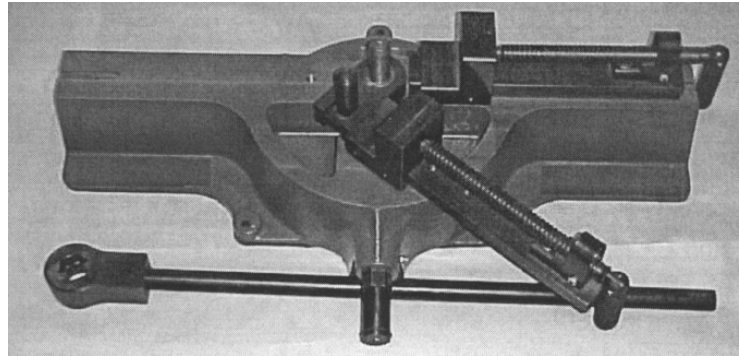
Tube Size

3/8" thru 1-1/2" O.D.
1/8" thru 1" Schedule 40 Pipe
6mm thru 32mm metric tubing

Weight - 125 lbs

Gear Ratio - 4:1 worm

Size - 30-1/2" L, 19" W, 7-3/4" H



Tooling & Equipment

Tooling

Modeling 624 Bender

Model 624 Bender 3/8" to 1-1/2" Capacity 6-624-1

Tooling Clamp Blocks

3/8" Individual 6-6-3
1/2"-3/4"-1"-1-1/2" combo 6-092-1
5/8"-7/8"-1"-1-1/4" combo 6-093-1
Any Individual Size By Size

Slide Blocks

3/8" Individual 6-7-3
1/2"-3/4"-1"-1-1/2" combo 6-516-1
5/8"-7/8"-1"-1-1/4" combo 6-518-1
Any Individual Size By Size

Radius Blocks

1" O.D. tube bent to 3" centerline radius

O.D.	Centerline	
3/8"	1-1/8"	6-512-18
3/8"	1-1/4"	6-512-20
1/2"	1-1/4"	6-515-20
1/2"	1-1/2"	6-515-24
5/8"	1-1/2"	6-518-24
5/8"	1-7/8"	6-518-30
3/4"	1-3/4"	6-521-28
3/4"	2-1/4"	6-521-36
7/8"	2"	6-523-32
7/8"	2-5/8"	6-523-42
1"	3"	6-524-48
1-1/8"	3-3/8"	6-526-54
1-1/8"	3-1/2"	6-526-56
1-1/4"	3-3/4"	6-527-60
1-1/2"	4-1/2"	6-530-72
1-1/2"	5"	6-530-80



Tooling & Equipment

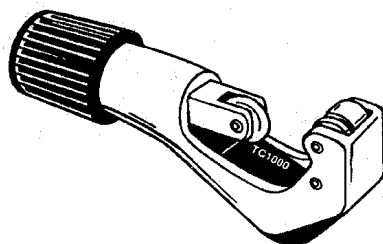
Olsen Model 50 Flaring Machine

www.dfburnham.com

Tooling & Equipment

Tube Cutters

For hard or soft copper, aluminum, brass, thin wall steel, stainless steel, monel, titanium and other metal tubing.



TC-1000

Rollers have flare cut-off groove, fold away reamer and spare cutting wheel.

For 1/8" to 1 1/8" (4 to 28 mm) O.D. tubing, (1/8" to 1" nom.).
Length: 4 15/16"
Weight: 6 1/2 oz.

312-FC

For 1/4" to 1 5/8" (7 to 41 mm) O.D. tubing, (1/8" to 1 1/2" nom.).
Length: 5 1/2"
Weight: 7 oz.

TC-1020

Combination tube constictor and cutter for 1/8" to 1 1/8" (4 to 28 mm) O.D. tubing.
Includes roller for making brazed connections.

Replacement Parts:

S75015

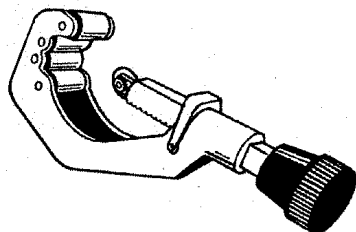
Standard cutting wheel

S75046

Cutting wheel for stainless steel and hard temper tubing

S74762

Screw for cutting wheel



206-FB

Ratchet feed mechanism speeds up cutting operation. Extra wide rollers stabilize tubing. Spare cutting wheel included.

For 3/8" to 2 5/8" (10 to 66 mm) O.D. tubing, (1/4" to 2 1/2" nom.).
Length (closed): 7 3/4"
Weight: 2 lbx.

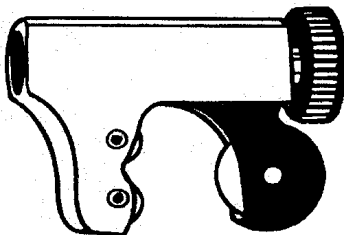
406-FA

2" to 4" cutter for 2" to 4 1/8" (51 to 104 mm) O.D. tubing, (2" to 4" nom.).
Length (closed): 11 1/4"
Weight: 3 1/2" lbs.

Replacement Parts:

S74761

Cutting wheel for 206-FB-BPD



TC-1050

For 1/8" to 5/8" (4 to 15 mm) O.D. tubing, (1/8" to 1/2" nom.).
Requires only 1 1/4" swing radius. (Requires only 1 3/8" swing radius with 5/8" tube.)

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

Size: 1 3/4" x 1 1/4" x 1/2"
Weight: 2 1/2 oz.

TC-2050

For 3/16" to 7/8" (5 to 22 mm) O.D. tubing. (Requires only 1 11/16" swing radius.)

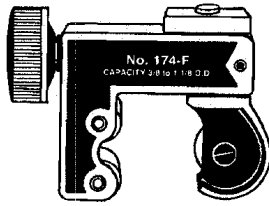
Replacement Parts:

Screw for cutting wheel TC-1050-BPD

Cutting wheel for TC-1050-BPD



Tooling & Equipment



174-F

For 3/8" to 1 1/8" (10 to 28 mm) O.D. tubing, (1/4" to 1" nom.).
Requires only 1 15/16" swing radius.
(Requires only 2 1/4" swing radius with 1 1/8" tube.)

Size: 2 11/16" x 2 1/32" x 1 1/8"
Weight: 5 oz.

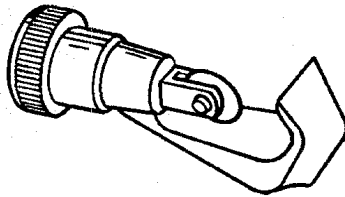
Replacement Parts:

S75015

Cutting wheel

S75046

Cutting wheel for stainless steel and hard temper tubing



227-FA

For 1/8" to 3/4" (4 to 19 mm) O.D. tubing, (1/8" to 5/8" nom.).
Enclosed feed mechanism.

Length: 3 1/2"
Weight: 5 oz.

Replacement Parts:

S32633

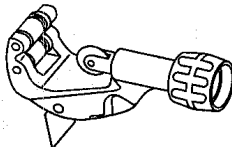
Cutting wheel

Kloskut® Tube Cutters

Adjustable tube cutters to produce square cut ends with no external burr and minimum internal burring when used on fully annealed copper, brass, aluminum, and steel tubing. Features a hardened and burnished too-steel cutting wheel, flare cut-off grooves in rollers for removal of old flares, swith-away reamer for removing internal burrs.

Handle feeds and adjusts cutting wheel to uniformly cut tubing as the cutter is rotated.

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



218B-BPD

218B-BPD

Medium Kloskut

For tubing sizes -2 (1/8" O.D.) to -18(1 1/8" O.D.)

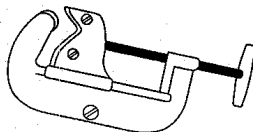
Weight: 11 oz.

1232-BPD

Large Kloskut

For tubing sizes -12 (3/4" O.D.) to -32 (2" O.D.) Die-cast aluminum frame.

Replacement Parts



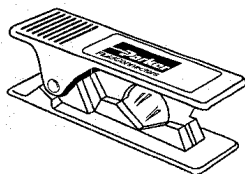
1232-BPD

218B Wheel-BPD

Cutter wheel for No. 218B Tube Cutter

1232 Wheel-BPD

Cutter Wheel for No. 1232 Tube Cutter



PTC-001

Plastic Tube Cutter

May be used with polyethylene, Polypropylene, nylon and other thermoplastic tubing. For tube O.D. sizes 1/8" to 1/2"

PTC-001RB

Replacement blades



Tooling & Equipment

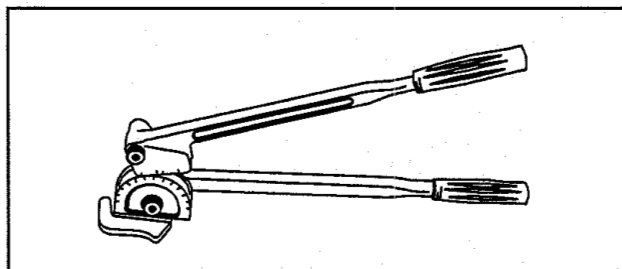
Hand Tube Benders

Sturdy, easy-to-use hand tools for fast accurate bending without kinks or visible flattening. Individual sizes in three modest from size 2 (1/8" O.D.) to 16 (1" O.D.). See Table O3 for part numbers and technical data.

Medium Duty Hand Tube Benders

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

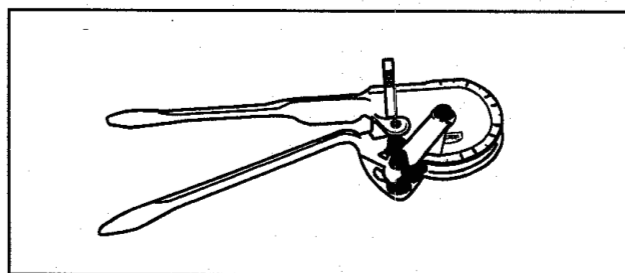
Individual benders for six tube sizes 1/8, 3/16, 1/4, 5/16, 3/8, and 1/2 inch. Will bend copper, aluminum, annealed steel and stainless steel. Can be used in hands or mounted in a bench vise for heavier wall thickness tube. Simply align marks on slide block and radius block then bend tube to desired angle (up to 180°) by pulling steadily on slide block handle. Angles are indicated on radius block both front and back. (Detailed instructions are included with each bender.) This style of bender is also available in metric sizes. See Table O4 for part numbers and technical data.



Medium Hand Tube Bender

1" Hand Tube Bender

For tubing size 1" O.D. in soft copper or aluminum. Can be used in hands, but suggest mounting on bench vise - especially for heavier wall thickness tube. Align marks and bend tube to desired angle (up to 180°) by pulling steadily on operating handle. Handle may be repositioned for maximum leverage. Angles are indicated on radius block. (Detailed instructions are included with bender.)



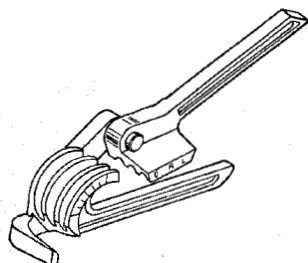
1" Hand Tube Bender

PART NUMBER	TYPE OF BENDER	SIZE	TUBE O.D. (IN.)	RADIUS TO TUBE CENTERLINE (INCHES)	MIN. WALL WITHOUT FLATTENING (INCHES)	RECOMMENDED MAX. WALL THICKNESS	
						COPPER ALUMINUM	STEEL STAINLESS STEEL (IN.)
364-FH-02	MED. DUTY	2	1/8	7/16	0.012	ANY	0.032
364-FH-03	MED. DUTY	3	3/16	9/16	0.020		0.032
364-FH-04	MED. DUTY	4	1/4	9/16	0.028		0.083
364-FH-05	MED. DUTY	5	5/16	15/16	0.032		0.083
364-FH-06	MED. DUTY	6	3/8	15/16	0.032		0.083
364-FH-08	MED. DUTY	8	1/2	1 1/2	0.042		0.083
364-FH-10	MED. DUTY	10	5/8	2 1/2	0.042		0.049
364-FH-12	MED. DUTY	12	3/4	3	0.049		0.065

Tooling & Equipment

Tube Benders, Lever Type

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



367-FH

368-FH

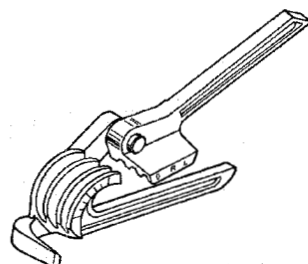
Triple Header Benders

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

For 1/8", 3/16" and 1/4" (3, 4, and 6 mm) O.D. tubing, 9/16" radius to center of tube.

For 1/4", 5/16" and 3/8" (6 and 8 mm) O.D. tubing, 15/16" radius to center of tube.

Metric Tube Benders



367-FH

368-FH

Triple Header Benders

For annealed copper, aluminum, steel, stainless steel and hard copper tubing of bending temper.

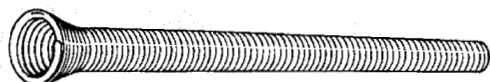
Lever type, multiple size benders. Calibrated markings for making accurate left-hand, right-hand, and offset bends. Ninety degree start requires less effort; makes bending fast and easy.

BENDING RANGE

Tube O.D.		Radius to Center of Tube	
(Inches)	(mm)	(Inches)	(mm)
1/8, 3/16, 1/4	3, 4, 6	9/16	14.2
1/4, 5/16, 3/8	6, 8	15/16	17.5

Tube Benders, Spring Type

For soft copper and aluminum tubing



102-F-04
102-F-05
102-F-06
102-F-07
102-F-08
102-F-10
102-F-12

201-F

112-F

163-F

For 1/4" to 3/4" O.D. tubing.

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

TUBE O.D. (INCHES)	BENDER	
	LENGTH (INCHES)	WEIGHT (OZ.)
1/4	10	3
5/16	10	3
3/8	10	4
7/16	12	6 1/4
1/2	12	6 1/2
5/8	12	8
3/4	12	10

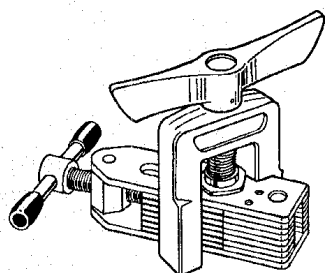
Set of 8 benders for 1/4", 5/16", 3/8", 7/16", 1/2", 5/8", 3/4" and 7/8" O.D. tubing.

Set of 3 benders for 1/4", 5/16" and 3/8" O.D. tubing.

Set of 4 benders for 1/4", 3/8", 1/2" and 5/8" O.D. tubing.



Tooling & Equipment

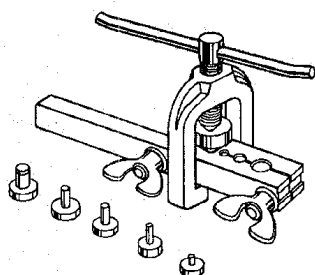


525-F

Flares and burnishes 3/16" to 5/8" (5 to 16 mm) O.D. tubing.

Unique, self-adjusting, tube holding mechanism permits use in tight quarters. Faceted, hard chrome finished cone rolls out and burnishes perfect 45° flare above the tube holding mechanism.

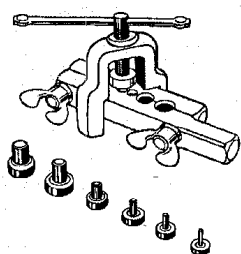
Weight: 1 3/4 lbs.



93-FB

For 3/16", 1/4", 5/16", 3/8" and 1/2" O.D. tubing. Recommended for Bundy, GM and other brazed or welded soft steel tubing (wall thickness to .035"). Also makes single or double flares in soft copper or aluminum tubing. Forged steel yoke; swivel-type hard chrome-finished flaring cone.

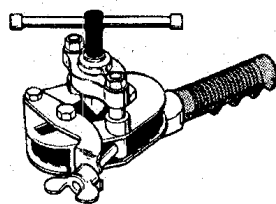
Weight: 3 lbs.



195-FB

For 1/4", 5/16", 3/8", 1/2", 5/8" and 3/4" O.D. tubing. Designed for automotive air conditioning service. Makes double flares in soft copper or aluminum tubing (wall thickness to .035"). Easy operating, ball bearing, swivel-type, hard chrome-finished, flaring cone. Makes flare with double-thick, double-strength walls. Also makes single and oversize flares.

Weight: 5 1/2 lbs.



945TH

Rolo-flair® Manual Rotary Flaring Tool

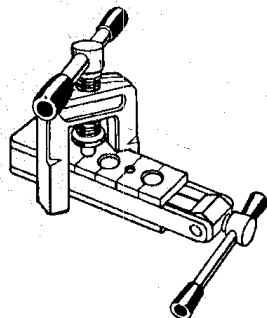
For soft metal tubing. Precision burnished 45° flares in tube sizes from 2 (1/8" O.D.) to 12 (3/4" O.D.) with an easy turn of the handle. For copper and aluminum alloy.

Weight: 2 1/2 lbs.

Tooling & Equipment

Tooling & Equipment

Metric Flaring Tools



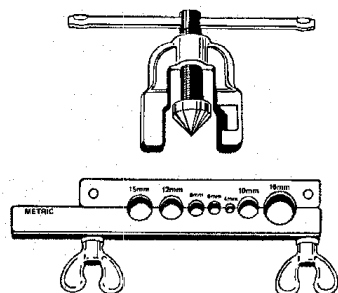
293-F

Bubble Flaring Tool

For 4.75 (3/16"), 6, 8 and 10 mm O.D. tubing

Flares soft double wall steel tubing with a wall thickness to .028". For soft copper and aluminum tubing.

Also forms international Standard bubble flare in one fast operation. Flares metric hydraulic brake lines used on European, Japanese and domestic automobiles and light trucks. Can also be used for industrial applications where movement or vibration is a problem.



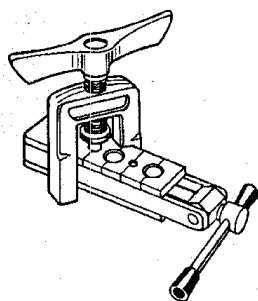
395-FAM

45° Flaring Tool

For 4, 6, 8, 10, 12, 15 and 16 mm O.D. tubing.

Flares soft copper, aluminum and brass.

Forged steel slip-on yoke and hardened flaring bar. Positive clamping action of bar prevents tube slippage. Self-centering yoke with swivel-type, hard chrome-finished flaring cone forms better flares with less effort. Design of yoke permits flaring where there is little space between nut and tube end.



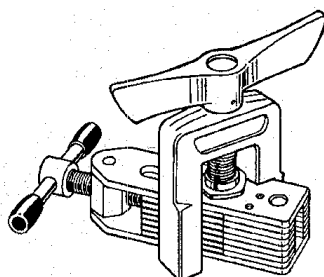
500-FCM

45° Flaring Tool

For flaring and burnishing 6, 8, 10, 12, 15 and 16 mm O.D. tubing.

For soft copper, aluminum and brass.

Flares rolled out above die bar by super-smooth faceted cone. Automatically burnishes flare face. Slip-on yoke permits use in tight quarters. Heat treated dies grip tubing without scoring.



525-F

45° Flaring Tool

For flaring and burnishing 5 to 16 mm O.D. tubing.

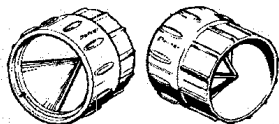
For soft copper, aluminum and brass.

Unique, self-adjusting tube holding mechanism permits flaring any size tubing within the range of 5 to 16 mm O.D. Single opening design is compact and easy to use. Faceted, hard chrome-finished cone rolls out and burnishes perfect flares above the tube holding mechanism. Slip-on self-centering yoke.



Tooling & Equipment

In-Ex® Tube Deburring Tool



208-F

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

Insert tube into the convexed end of the In-Ex for inside deburring and the opposite end for outside deburring. Rotate in either direction. Replacement blades can be ordered. See bulletin 4391-B226 for details.

Weight: 10 oz.

208-FSS

Reamer for aircraft grade stainless steel tubing. Black finish



Tooling &
Equipment



Cross Referencing

BURNHAM	TRIDENT	BRENNAN	PARKER	PARKER	AEROQUIP	W HEAD
500	1213	6402	F650X	0506	X	9316
506	1255	6408	P50N	05 CP	900598	7237
506s	1256	6409	HP50N	05 HP	X	7238
507	1268	6405	F50G	0502	2216	C3269
508	1270	6410	F50G5	0510	FF1010	7033
509	1267	6404	FHG5	X	2246	C3239
516	1231	6400	F50X	0503	202702	C5315
522	1236	6801	C50X	2503	2062	C5515
523	1240	6802	V50X	3503	2061	C5365
525	1265	6803	S50X	253 T	203003	C5715
526	1266	6804	R50X	053 T	203005	C5716
527	1263	6806	X	X	X	TF3569
528	1269	6805	AEOG	2502	206801	C3459
601	1218	1501	X	2107	2047	9405
602	1216	1502	X	2207	2048	9455
603	1223	1603	X	X	X	9705
604	1210	1404	X	0107	2045	9205
605	1212	1405	X	0207	2046	9255
606	1214	1503	X	3107	2049	9355
607	1249	1504	X	X	2050	9385
608	1258	1601	X	X	2254	9406
609	1259	1602	X	X	2253	9456
610	1222	1406	X	X	X	X
612	1272	6902	X	3507	X	9365
617	1264	6401	F5F	X	X	C3249
618	1211	6505	F6X	0106	2018	9100
619	1235	6900	X	0507	2066	9315
620	1239	6809	X	X	X	X
620p	1271	6901	X	2507	X	9515
621	1215	6506	G6X	X	2242	C5256
622	1236	6500	C6X	3903	2071	C5506
623	1237	6502	V6X	3703	2070	C5356
625	1227	6600	S6X	393 T	203101	C5707
626	1248	6602	R6X	063 T	203102	C5706
627	1247	6501	X6EF	X	2250	TF5406
806	1254	2408	PNTX	03 CP	900599	C5229
815	1204	2403	HTX	0303	2027	C5305
816	1202	2404	FTX	0103	2021	C5205
818	1311	318	BTX	06 B	1290	C5105
819	1253	319	TX	06 S	900605	C5165
820	1329	304 C	FNTX	06 CP	210292	C5129



Cross Referencing

821	1234	2500	ETX	2303	2039	C5505
822	1208	2501	CTX	2103	2024	C5405
823	1206	2503	VTX	3103	2023	C5355
824	1220	2603	JTX	033 T	2033	C5705
825	1221	2601	STX	0213 T	2030	C5605
826	1224	2605	RTX	013 T	2028	C5755
827	1229	2650	KTX	033 X	X	C5967
831	X	2705	WGTX	0253	X	5275
832	1260	2700	WTX	0353	2041	C5325
833	1262	2701	WETX	2353	2043	5525
834	1283	2703	WJTX	543 T	X	5737
835	1284	2704	WJJTX	533 T	X	5726
837	1261	2702	WNTX	3353	X	TF5375
854	1230	2405	GTX	0203	2022	C5255
855	1242	2502	DTX	2203	2025	5455
856	1228	2602	OTX	223 T	2031	C5655
857	1226	2606	MTX	023T	2029	X
860	1246	2406	TRTX	0603	2215	C5015
877	1208LO	2501 L	CCTX	5603	202411	C5425
878	1208 LL	2501 LL	CCCTX	5703	202413	X
909	1274	5405	FG	0201	2040	C3209
910	1273	5000	GG	0202	2096	C3309
911	1252	5404	FF	0101	2083	C3069
912	1250	5406	PTR	0102	2081	C3109
914	1243	5502	CD	2102	2089	C3409
914 DS	1243 C	3051	X	X	X	X
915	1244	5503	CD45	3102	X	C3359
916	1245	5504	DD	2202	2087	C3509
917	1225	5605	MMO	022T	2090	C3709
918	1279	5652	KMMOO	022X	2080	C3959
920	1275	5500	CR	2101	2085	C3529
921	1276	5602	MRO	012T	2092	C3759
922	1278	5604	MMS	212T	2091	C3609
923	1277	5603	X	X	2093	C3805
924	1332	306	WLN	53 N	210212	C5924
925	1241	5505	DD45	4202	X	C3559
926	X	5600	RRS	X	X	X
932	X	5406 HP	HHP	01HP	X	C3169
932p	1251	5406	HP	01 CP	2082	3159
F50-F50	1286	3474	F50-F50	0505	X	C5314
C50-C50	X	6807	C50-C50	X	X	X



Fraction - Decimal Conversion Chart

	Inches	Millime-
1	1 .015625	.3969
1	3 .03125	.7938
1	5 .046875	1.1906
3	7 .0625	1.5875
3	9 .078125	1.9844
1	11 .09375	2.3813
1	13 .109375	2.7781
5	15 .125	3.1750
5	17 .140625	3.5719
3	19 .15625	3.9688
3	21 .171875	4.3656
7	23 .1875	4.7625
1	25 .203125	5.1594
1	27 .21875	5.5563
9	29 .234375	5.9531
9	31 .250	6.3500
5	33 .265625	6.7469
5	35 .28125	7.1438
11	37 .296875	7.5406
11	39 .3125	7.9375
3	41 .328125	8.3344
3	43 .34375	8.7313
13	45 .359375	9.1282
13	47 .375	9.5250
7	49 .390625	9.9219
7	51 .40625	10.3188
15	53 .421875	10.7157
15	55 .4375	11.1125

	Inches	Millime-
17	33 .515625	13.0969
17	35 .53125	13.4938
9	37 .546875	13.8907
9	39 .5625	14.2876
19	41 .578125	14.6844
19	43 .59375	15.0813
5	45 .609375	15.4782
5	47 .625	15.8751
21	49 .640625	16.2719
21	51 .65625	16.6688
11	53 .671875	17.0657
11	55 .6875	17.4626
23	57 .703125	17.8594
23	59 .71875	18.2563
3	61 .734375	18.6532
3	63 .750	19.0501
25	65 .765625	19.4470
25	67 .78125	19.8438
13	69 .796875	20.2407
13	71 .8125	20.6376
27	73 .828125	21.0345
27	75 .84375	21.4313
7	77 .859375	21.8282
7	79 .875	22.2251
29	81 .890625	22.6220
29	83 .90625	23.0188
15	85 .921875	23.4157
15	87 .9375	23.8126



Thread Info.

Thread Chart

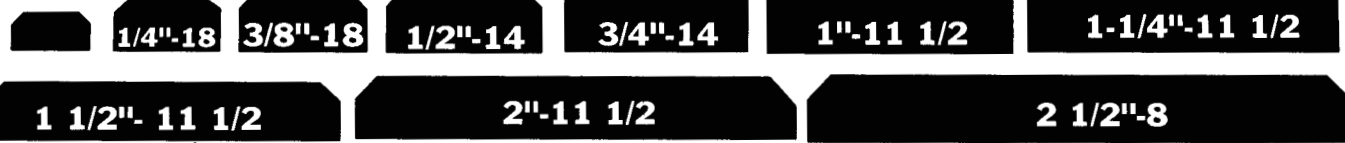
DASH SIZE	2	3	4	5	6	7	8	10	12	14	16	20	24	32	40	48	
O.D. TUBING	1/8	5/32	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2	2	2-1/2	3
SIZE																	
STANDARD PIPE																	
SIZE N.P.T.F. (DRYSEAL)*	1/8-27		1/4-18		3/8-18		1/2-14		3/4-14		1-11 1/2	1 1/4-11 1/2	1 1/2-11 1/2	2-11 1/2	2 1/2-8	3-8	
S.A.E. 45° FLARE	5/16-24		3/8-24	7/16-20	1/2-20	5/8-18	11/16-16	3/4-16	7/8-14	1 1/16-14	1 1/4-12	1 3/8-12					
INVERTED FLARE	5/16-24		3/8-24	7/16-24	1/2-20	5/8-18	11/16-18	3/4-18	7/8-18	1 1/16-16							
J.I.C. 37° FLARE	5/16-24		3/8-24	7/16-20	1/2-20	9/16-18	3/4-16	7/8-14	1 1/16-12	1 3/16-12	1 5/16-12	1 5/8-12	1 7/8-12	2 1/2-12	3-12	3 1/2-12	
COMPRESSION	5/16-24	3/8-24	7/16-24	1/2-24	9/16-24		5/8-24	11/16-20	13/16-18	1-18	1 1/8-18						
FLARELESS																	
COMPRESSION (PLASTIC TUBE)	5/16-24		3/8-24	7/16-24	1/2-24		11/16-20										
AIR BRAKE - PLASTIC TUBE			7/16-24		17/32-24		11/16-20	13/16-18	1-18								
AIR BRAKE - COPPER TUBE			7/16-24	1/2-24	17/32-24		11/16-20	13/16-18	1-18								
DOUBLE COMPRESSION	5/16-24	3/8-24	7/16-24	1/2-20	9/16-20		11/16-16										
STEEL COMPRESSION																	
COMPRESSION (HIGH PRESSURE)	5/16-24		3/8-24	7/16-20	1/2-20	9/16-18	3/4-16	7/8-14	1 1/16-12	1 3/16-12	1 5/16-12	1 5/8-12	1 7/8-12	2 1/2-12			
S.A.E. O-RING	5/16-24		3/8-24	7/16-20	1/2-20	9/16-18	3/4-16	7/8-14	1 1/16-12	1 3/16-12	1 5/16-12	1 5/8-12	1 7/8-12	2 1/2-12			
INTERNAL O-RING			1/2-20	9/16-18	5/8-18		7/8-14	1-14	1 1/8-12	1 1/2-12	1 3/4-12	2-12					
NPSM SWIVEL THREAD	1/8-27		1/4-18		3/8-18		1/2-14		3/4-14		1-11 1/2	1 1/4-11 1/2	1 1/2-11 1/2	2-11 1/2			
FLAT FACE THREAD			9/16-18		11/16-16		13/16-16	1-14	1 3/16-12		1 7/16-12	1 11/16-12	2-12				
BRITISH THREAD BSPP/BSPT	1/8-28		1/4-19		3/8-19		1/2-14		3/4-14		1-11	1 1/4-11	1 1/2-11	2-11			
METRIC THREAD	10 M10X1.0	12 M12X1.5	14 M14X1.5	16 M16X1.5	18 M18X1.5	20 M20X1.5	22 M22X1.5	24 M24X1.5	26 M26X1.5	27 M27X2.0	30 M30X2.0	33 M33X2.0	36 M36X2.0	42 M42X2.0	48 M48X2.0		
CODE 61 FLANGE HEAD O.D							1.19	1.335	1.50		1.75	2.00	2.38	2.81	3.31	4.00	
CODE 62 FLANGE HEAD O.D							1.25		1.62		1.88	2.12	2.50	3.12			



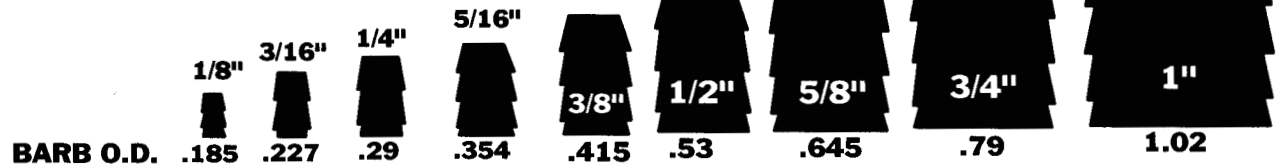
Thread Profiles

Pipe Threads

1/8"-27



Hose Barb Fittings



Push On Fittings

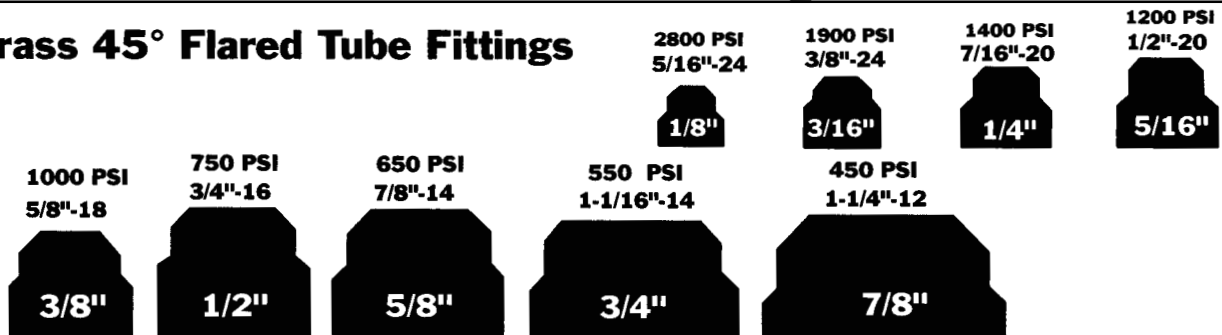


Garden Hose Fittings

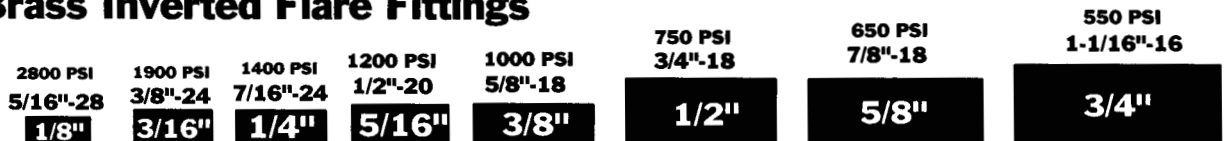
Male Garden Hose Threads are 3/4" with O.D. of 1.0625 and 11-1/2 threads per inch



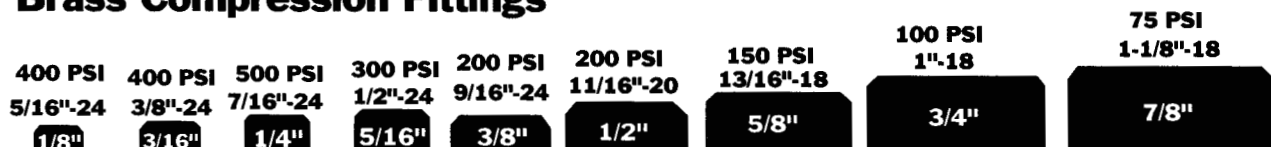
Brass 45° Flared Tube Fittings



Brass Inverted Flare Fittings



Brass Compression Fittings



Tubing O.D. Size

