

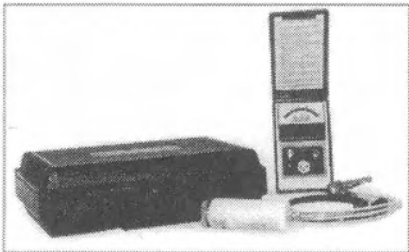
Humidity Meter — When you need to quickly check relative humidity levels in pressurized cable, nothing beats this handy, battery-powered tester.

It's only 6" long x 3 1/2" wide x 2" deep, (152 mm L x 89 mm W x 51 mm D) so you can take it almost anywhere. And you can run it for up to 200 hours in-field without having to change the 9-volt battery.

Just plug in the sensing element cord from an air dryer, then read the humidity level on the gauge's color-coded scale. The gauge itself is a precision 1.5% d'Arsonval jewel-movement gauge, so you're assured of reliable results.

The included Humidity Sensor permits sample humidity levels at any pressure testing point throughout your network.

Each meter comes in its own durable carrying case, with a separate space for the sensor. Wt. 12 oz. (.34 kg) **PH-200**.



Portable Flowrater — The tool of choice for measuring entering air flow at any valve location.

It's especially useful on older distribution manifolds that use 0.2 SCFH air rate indicators, and on pipe system manifolds in manholes.

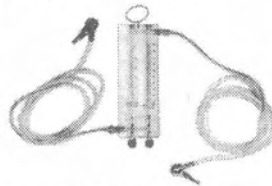
The meter gives you accurate, instantaneous flow rates, so you don't need to work out complicated mathematical air flow computations based on pressure drop readings.

You can also use it to get accurate flow analysis measurements or to find flow changes while troubleshooting your network.

Its dual-bore flow block provides a wide 0.2-20 SCFH flow reading range, with easy-to-read flow scales calibrated by SCFH at 10 psi.

The positive, push-pull, quick-opening control valves and 6' (183 cm) clear vinyl tubes with convenient, relief-spring, snap-on air chucks make getting fast, reliable readings easy.

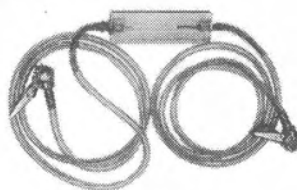
You can even suspend the flowrater at your worksite using the steel ring built into the top of the block. And when you're done, you can keep it protected in its own plastic carrying pouch (included). Wt. 2 lbs. 5 oz. (1.05 kg) **PEC-548**.



Direction-of-Flow Indicator — Perfect for detecting sheath breaks, this handy device tells you the air flow direction in a pressurized cable.

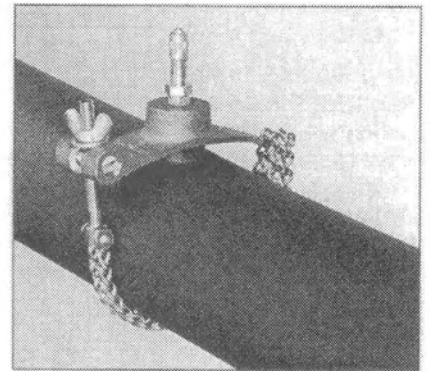
The white ball indicator in this easy-to-use tool is sealed inside a durable transparent composite body. It connects to your testing points with two 6' (183 cm) long clear vinyl tubes, each of which has its own relief-spring, snap-on air chuck.

Each indicator comes with its own protective vinyl case for secure storage. Wt. 14 oz (.4 kg) **PEC-527**.



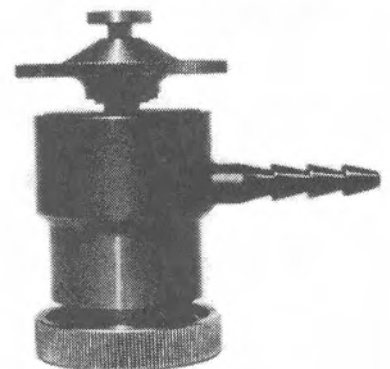
Pressure Testing Clamp — Makes an excellent temporary gas pressurizing point, especially when flash-testing individual sleeves.

Just put the clamp's gasket right over the drilled hole in the cable, pass the chain around the cable once and hook it onto the lug on the clamp, then twist the wing-nut on the take-up bolt to secure the clamp. Wt. 8 oz. (.23 kg) **PEC-809**.



B Pressure Testing Chuck — This ultra-precise measuring chuck lets you connect a metering instrument to pressure testing valves in a pressurized cable without losing gas.

It's so accurate that, for every 100 lbs. of gas used, the typical gas loss is only about a tenth of an ounce. The chuck housing is made of 100% Monel[®], with a threaded collar so you can attach a pressure testing valve. Wt. 8 oz. (.23 kg) **PEC-515**.

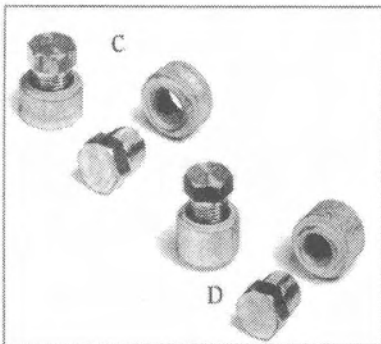


Pressure Flanges and Plugs

— These industry-standard solid bronze or brass flanges are ideal for placing a valve when pressure testing a lead-sheathed cable, sealing sheath holes or injecting sealing compounds.

The **C Flange** (Wt. 8 oz./pkg. (.23 kg); **PEC-401**) and **D Flange** (Wt. 8 oz./pkg. (.23 kg); **PEC-402**) both have 1/8" dia. pipe threads and can be used with the F Valve Stem; the D Flange also gives you an extra 1/8" of external thread on the bottom.

Both flanges are tin-dipped for easier soldering to the cable sheath, come in 25-piece packages and accommodate the **C Flange Plug** (25/pkg.; 8 oz./pkg. (.23 kg); **PEC-403**).



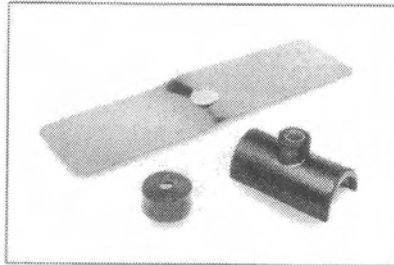
F Pressure Flange — A combination flange and fitting for use at pressure reading points, bypasses or air inlets on any 3/4" (19 mm) dia. or larger cable.

The neoprene saddle is impregnated on the underside with mastic, which in turn is protected by a strip of release paper. A 1" (25.4 mm) hole in the mastic leads up to flange with a brass inset. The flange's 1/8" female pipe thread can accept a wide range of fittings.

A green plastic warning marker cap is included to cover the flange inlet when not in use, along with a strip of thin sheet

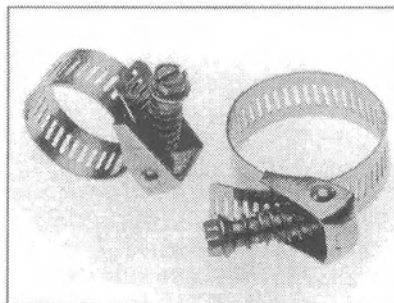
metal with a small hole punched in the middle to cover and shield the saddle. You'll need two Sealing Clamps for each flange you want to install (see the next item).

You can use the assembly with any standard valve, tee or elbow with a 1/8" male NPT thread. 10/pkg. Wt. 15 oz. (.45 kg) **PEC-426A**.



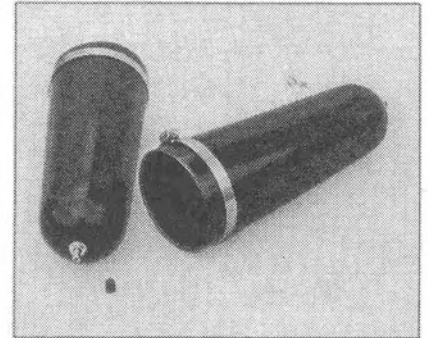
Sealing Clamps — Used to secure wrapped joints while splicing plastic-sheathed, gas-tight cable, these 3/8" (9.5 mm) wide stainless steel clamps come in a variety of sizes to fit all common cable types.

Other sizes are also available; contact us for information on our current selection.



Item Dia.	Wt.	P/N
1 1/16" (27 mm)	2 oz. (.06 kg)	PEC-405A
1 3/4" (44.5 mm)	2 oz. (.06 kg)	PEC-405B
2" (51 mm)	2 oz. (.06 kg)	PEC-405C
4" (102 mm)	2 oz. (.06 kg)	PEC-405D

Cable Caps — Designed for sealing cable ends, these convenient caps come with your choice of solid or valved ends in four different sizes to fit almost any type of cable.



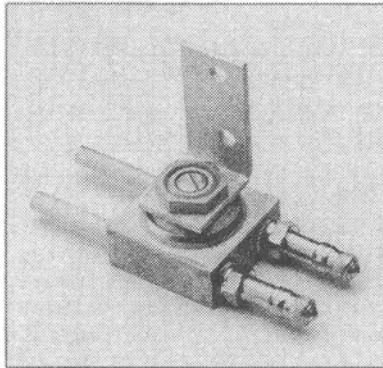
P/N	P/N	PEC-	
Cap W/O Valve	Cap With Valve	Cable Size	Wt./ Pkg.
-900	910	3/8" - 1" (10 mm - 25 mm)	2 lb. (.9 kg)
-901	911	1" - 2" (25 mm - 51 mm)	3 lb. (1.4 kg)
-902	912	2" - 3" (51 mm - 76 mm)	5 lb. (2.3 kg)
-903	913	3" - 4" (76 mm - 102 mm)	10 lb. (4.5 kg)

Dual Stem Bypass Valve —

Primarily used with buried or underground cable where you want to have ready access at the top of the vault to a shutoff or reading point.

The stainless steel diaphragm assembly is permanently sealed inside the housing. A control screw in the housing lets you close the valve so you can take pneumatically isolated readings from either valve stem.

A removable bracket is provided on the housing for mounting the valve on a wire terminal when making buried cable installations. Wt. 8 oz (.23 kg) **PEC-508.**

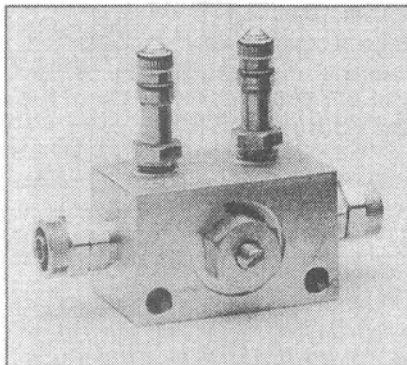


F Bypass Valve — You can use this valve with 3/8" dia. plastic tubing to build a handy bypass across a pressure plug at an under-ground-aerial cable junction, or on a riser pole.

The diaphragm assembly is permanently sealed inside the housing. A control screw in the housing lets you open or close the valve with an ordinary screwdriver.

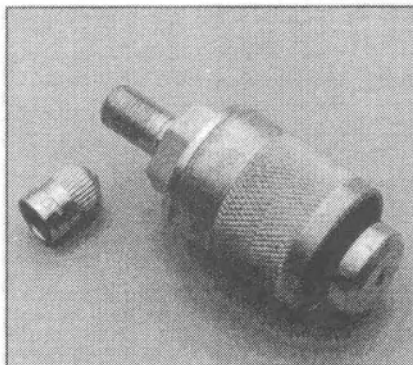
Two plastic fittings are installed in the housing for connecting your tubing; on the housing top are a pair of F Pressure Testing Valves.

A bracket built into the housing has two 7/32" dia. screw holes for mounting the valve on a pole or wall. Wt. 8 oz. (.23 kg) **PEC-725.**



Air Feeder Pipe Seal — The air feeder pipe seal provides an air and moisture tight seal in the ends of air feeder pipe prior to placing the pipe. The pipe seal is compatible with 19/32" ID X 3/4" OD aluminum-lined, polyethylene tube commonly called CA 3131 air feeder pipe. To guard against the entrance of water into the air feeder pipe: the 9/16" nut is loosened to allow the knurled shell to slide forward. The bushing is then fully inserted into the bored pipe opening. Retightening the nut until snug expands the bushing within the pipe and creates the seal. Air pipe should be pressurized to approximately 15 psi and checked with E pressure testing solution. The valve and threads of the completed pipe seal should be protected with several turns of friction tape.

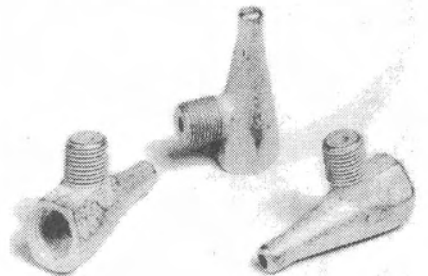
Wt. 3 oz. (85 g) **PEC-711.**



B Pressure Testing Ell —

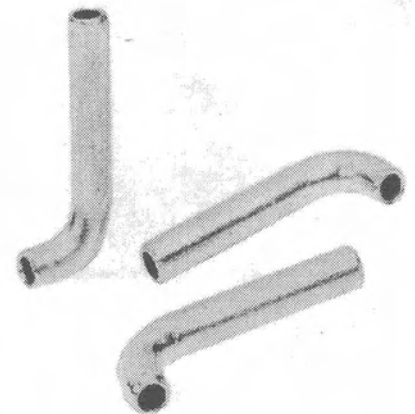
Made from cast brass and tinned for easier soldering, this handy ell helps speed soldering of 1/4" ID lead pipe to any lead cable sheath.

The tapered end fits into the lead pipe, while the other end is tapped for an F Valve or C Plug. The male outlet thread will fit all pressure flanges or fittings with a 1/8" pipe thread. 10/pkg. Wt. 8 oz./pkg. (.23 kg) **PEC-504.**



Pressure Testing Ell —

A simpler ell specially designed for soldering 1/4" ID lead pipe directly to lead cable sheath. It's made from seamless copper tubing and tinned for easier soldering. 1 5/8" long x 1/2" high. (41 mm L x 12.7 mm H) 10/pkg. Wt. 4 oz./pkg. (113g) **PEC-404A.**

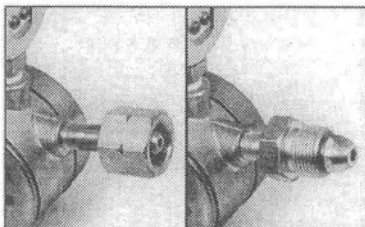
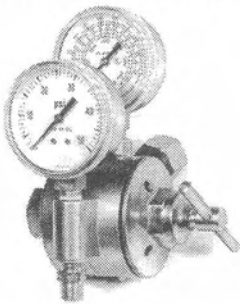


C Pressure Testing Regulator

— Works with your gas cylinder to control outlet pressure when you're charging cables during pressurization.

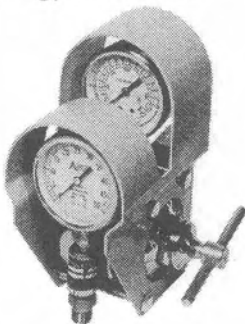
It's a two-stage regulator: the top stage has a 0-3000 psi high-pressure gauge with three scales for finding gas volumes (SCF) and pressures in both 224 and 24 cu. ft. cylinders; the bottom stage features a 0-50 psi low-pressure gauge for monitoring outlet pressure. Inlet fitting is CGA 555 left hand inlet (female). Wt. 6 lbs. 4 oz. (2.8 kg) **PEC-526F**.

Also available is a special version with CGA 580 left hand male inlet fitting. **PEC-526M**.



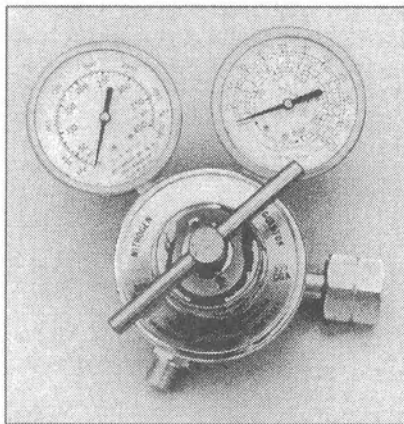
CGA 555 (female) CGA 580 (male)

Hard Hat — for either regulator to protect both gauges from accidental impact. Wt. 2 lbs. 8 oz. (1.1 kg) **PEC-886**.

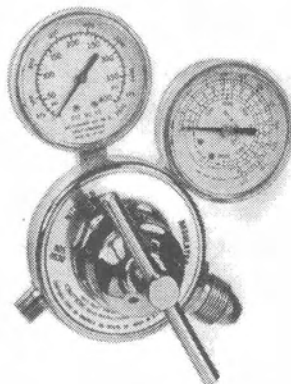


C High Pressure Gas Regulator

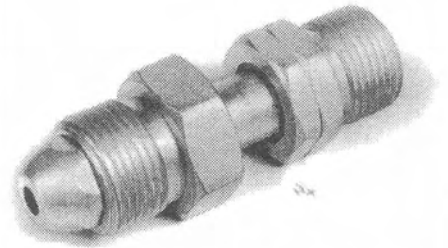
— Helps control gas pressure when using pneumatic tools like a cutter or presser. It's a single -stage commercial regulator specially modified to include a high-pressure gauge and fitting for connection to a standard 224 or 24 cu. ft. nitrogen cylinder. The regulator has a single reducing valve and safety valve, controlled by an adjusting screw and two gauges. The high-pressure gauge monitors pressure in the cylinder, while the low-pressure gauge is for the regulator outlet. They can handle pressures from 0-180 psi, with maximum flow of 1500 cu. ft./hr. (43 cu. M/hr.) Inlet fitting is CGA 555 left hand female. Wt. 5 lbs. 10 oz. (2.6 kg) **PEC-916L**.



Also available is a special version with CGA 580 left hand male inlet fitting. **PEC-916R**.

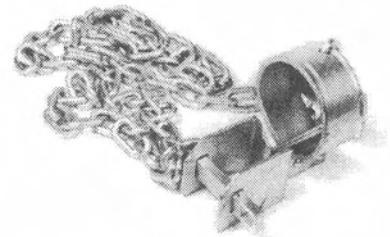


Male/female adapter is available for field retrofit **PEC-917**.



B Pressure Regulator Shackle

— this shackle's steel ring and yoke enclose your cylinder valve's handwheel and regulator connector nut, protecting it from theft or movement. The ring's chain and locking bar let you secure it with a padlock, while a second chain attaches your cylinder to a utility pole. Wt. 3 lbs. 8 oz. (1.6 kg) **PEC-857**.



C Regulator Wrench — This three-slot wrench makes tightening nuts on almost any cylinder, hose or gas manifold connection a breeze.

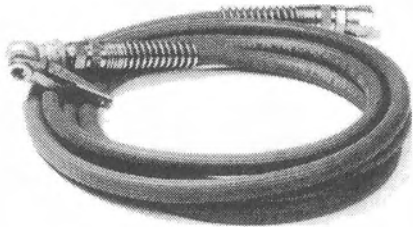
It's made from forged steel, heat-treated for maximum strength. The openings accommodate any 11/16", 1 1/8" or 1 3/16" fitting. 10" long. Wt. 1 lb. 8 oz. (.7 kg) **PEC-853**.



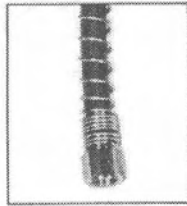
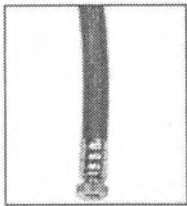
Pressure Testing Hoses —

Designed to move gas from a pressure testing regulator to an inlet valve (shown on p. 8), these 3/16" ID x 7/16" OD (4.7 mm ID x 11.1 mm OD) hoses are constructed of grade RM welding hose consisting of an inner rubber tube surrounded by a single impregnated cotton braid and rubber cover for flexible strength.

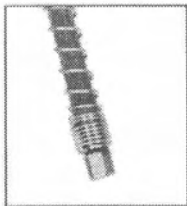
"B" hoses have a snap-on air chuck for Schrader Valves and a CGA no. 23 9/16"-18 left-hand thread connection nut with strain-relief springs on both ends.



PEC-507A



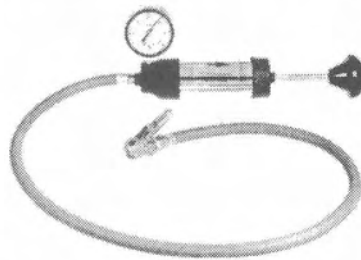
PEC-507B



PEC-507C

C Pressure Testing Pump —

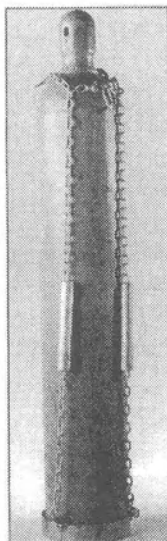
Compact, hand-held pump tests the integrity of splice cases. The perfect tool for use in cramped manholes with water in them. Also ideal for aerial use, since the pump works without need for pump to be placed on the ground. Wt. 2 lbs. (.90 kg) **PEC-759.**



B Gas Cylinder Sling —

makes hoisting or transporting those big 9" (23 cm) dia., 224 cu. ft. nitrogen cylinders less of a chore. The flanged ring secures to the bottom of your cylinder, while the three chains attached to the ring loop together at the top and beneath the valve cap with a snap hook to cradle the tank.

There are two rings on the top loop for hoisting the cylinder, and handgrips on two of the chains for easier carrying by two people. Hot dipped galvanized finished. Wt. 15 lbs. (6.8 kg) **PEC-856.**

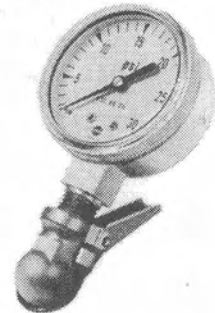


B Pressure Gauge —

Getting a fast pressure measurement is easy with this inexpensive 2" (51 mm) dia. gauge.

The easy-to-read dial has a 0-30 psi range and is divided into 30 1-lb. increments with six 5-lb. benchmarks. It's designed so that you can read it from any angle and still get a reliable measurement within ± 1 lb.

Each gauge comes with a solid brass snap-on chuck for fast, secure installation. Wt. 12 oz. (.34 kg) **PEC-516.**

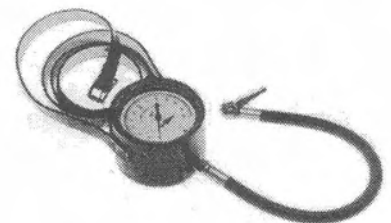


C Pressure Gauge —

This precision gauge's 3 1/2" (89 mm) dial is graduated in 0.05 psi increments, and delivers highly reliable measurements $\pm .42\%$ anywhere between 0-12 psi.

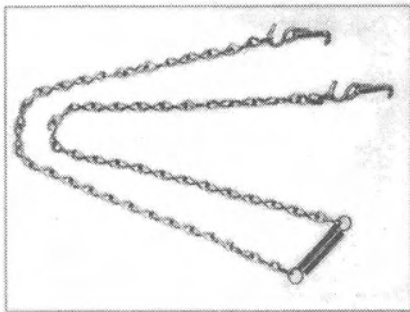
The assembly includes an 18" (46 cm) hose, a solid brass snap-on chuck, and a durable leather carrying case with shoulder strap. A dummy valve on the carrying case helps protect the chuck from dust and dirt when not in use.

Wt. 4 lbs. (1.8 kg) **PEC-517.**

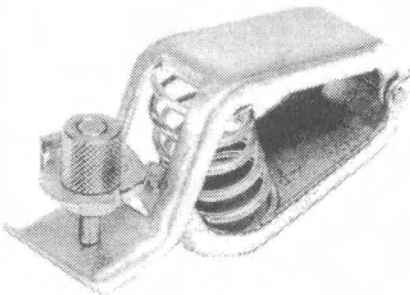


B Flange Clamp — For holding a pressure flange securely in place while you're soldering it to the cable sheath.

It's made of a chain with a tension spring in the middle, and a hook on each end. Just wrap the chain around the cable, then attach the hooks to either side of the flange, and you're ready to solder. 25" (64 cm) long. Wt. 4 oz. (.1 kg) **PEC-811.**



C Flange Clamp — This spring-type clip will keep a flange steady while you're soldering it to the cable sheath. One jaw of the clip has a pilot for holding and centering the flange over the hole. 4" long x 2" high x 1 1/8" wide (102 mm L x 51 mm H x 29 mm W). Wt. 8 oz. (.23 kg) **PEC-808.**



Pressure Testing Valves — GMP carries a complete selection of valves and valve hardware for pressure testing, including:

C Pressure Testing Valve: provides a permanent air inlet and pressure reading point on lead cable sheath or sleeves. 1/4" dia. 20 USS thread.

F Pressure Testing Valve: for either temporary or permanent use with a C or F Pressure Flange (see page 7) as an air inlet and reading point on lead cable sheath or sleeves. 1/8" dia. pipe thread with 7/16" dia. hexagonal nut.

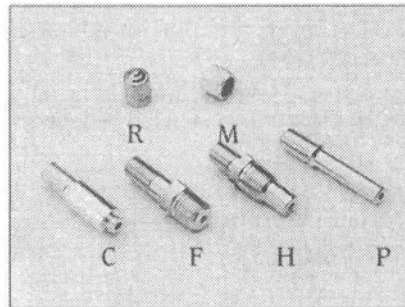
H Pressure Testing Valve: for use on 37-type terminals or similar applications. 1 5/16" (33.3 mm) long.

P Pressure Testing Valve: for making a valve extension at the end of a lead pipe.

All four valves come equipped with a valve core and stainless steel spring.

R Valve Cap: this cap's round dome design lets you install and remove it easily by hand. Each cap has a rubber gasket for leak-free stem protection.

M Valve Cap: to discourage tampering with a stem or core, this cap has a soft metal hexagonal gasket that requires a 3/8" wrench for installation for removal.



Valve	10/pkg. Wt./pkg.	PEC-
C	5 oz. (.14 kg)	-503
F	5 oz. (.14 kg)	-501
H	5 oz. (.14 kg)	-500
P	5 oz. (.14 kg)	-502
Core Only	5 oz. (.14 kg)	-501A
R	5 oz. (.14 kg)	-505
M	5 oz. (.14 kg)	-504

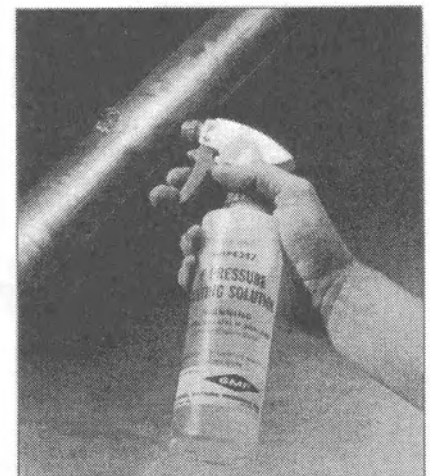
Our **B Desiccant** is ideal for use with plastic or paper insulated cable, and comes in sealed, moisture-proof cans.

C Desiccant lets you thoroughly dry out pulp or paper insulated conductors, coax cable and spiral fours; 1 qt. cans only.



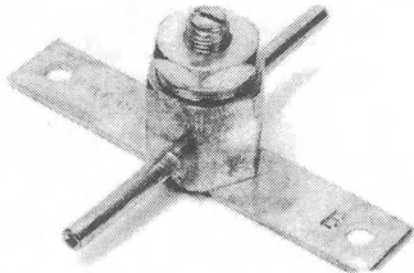
Desiccant P402-111-1

E Pressure Testing Liquid — Available in either ready-to-use solution or concentrate, this versatile fluid can positively identify leaks in not only lead and polyethylene cable sheath but air pipe, sleeves, splice cases and fittings as well. **PEC-848.**



B Bypass Valve — Designed for use with aerial cables or underground vaults where you need to divide one or join two pressurized cable sections, or bridge a point in the section where the air flow has been cut off.

You can disassemble the valve's diaphragm assembly before soldering the solid tin/brass housing to the cable. The housing itself has two 2 1/4" (57 mm) OD pipe tubes and a 4 11/16" long x 2" high (119 mm L x 51 mm H) mounting bracket. Wt. 8 oz. (.23 kg) **PEC-510**.



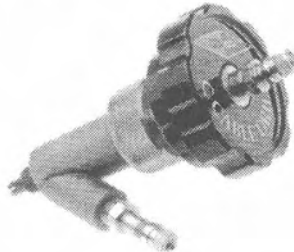
Pneumatic Cable Drill — This versatile nickel-steel drill can not only prepare a 1/4" (6.4 mm) dia. hole in cable sheath for inserting a C or D Flange (see page 7), but it also makes an excellent temporary pressure valve.

A valve on the drill's side lets you directly connect a pressure chuck, so you can quickly create a valve connection to a lead sleeve or cable sheath without losing gas or waiting for pressure to equalize between existing valves.

The reversible, double-ended hollow steel bit is mounted at one end of the polished shank. A special gland on the shank side of the cast aluminum handle and a valve stem in the

handle itself provide exceptional sealing.

A spring-loaded ejection pin in the stem provides an easy way to remove leftover slugs. Wt. 1 lb. (.45 kg) **PEC-805, PEC-806** (bit only).

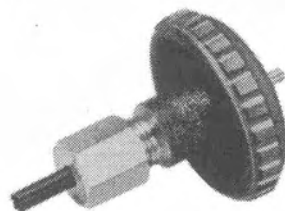


Cable Drills — Available with either a .221" (5.61 mm) dia. or .480" (12.19 mm) dia. shank, these drills let you make clean cable holes for placing flanges in 1" (25.4 mm) dia. or larger paper or pulp insulated lead or plastic sheath cable.

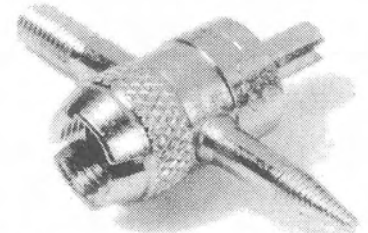
The double-ended hollow bit is secured to the shank of the knurled, aluminum-alloy handle with a steel nut.

To bore a hole, just twist the drill into the cable until the drill turns freely; you can then remove the slug with the spring-loaded ejection pin built into the handle.

Item	Weight	P/N
.221" Drill (5.61 mm) (for 1/4" dia. holes)	4 oz.	PEC-801
(6.4 mm)	(113g)	
Bit only	—	PEC-802
.480" Drill (12.19 mm) (for 1/2" dia. holes)	8 oz.	PEC-803
(12.7 mm)	(.23 kg)	
Bit only	—	PEC-804



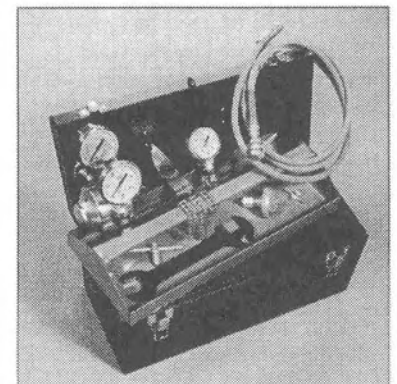
Valve Repair Tool — An excellent all-around tool for removing or replacing valve cores and preparing valve stems for soldering. It includes a wrench for removing valve cores, a tap and thread cutting die for removing burrs from threads and valve stems, and a filing surface for smoothing valve top seats. You can also use the tool as a wrench to screw valves into cable sheath. Wt. 2 oz. (57 g) **PEC-506**.



Pressure Testing Kit — The one kit to have when pressure testing cable, this comprehensive package combines many of your most important tools into one highly portable case.

Inside each kit is a C Pressure Testing Regulator, C Regulator Wrench, 8' (2.4 M) Pressure Testing Hose, .221" (5.61 mm) Cable Drill, B Pressure Gauge, Valve Repair Tool (see item above) and Pressure Testing Clamp (see page 6).

They're all brought together in a tough metal case that's built to withstand years of hard in-field use. Wt. 18 lbs. (8.2 kg) **PEC-849** (case only: 2 lbs. (.9 kg)).

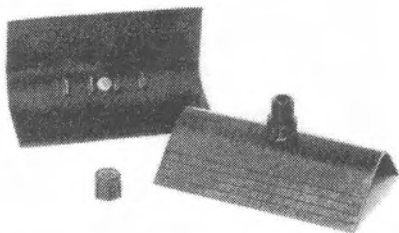


J Compound Injection Fitting

— A flexible, direct sheath injection fitting that you attach over a rectangular opening in the sheath to inject compound into almost any size cable using our J Compound Pressure Injection or Semkit Gun.

Ridges on the underside of the fitting keep it away from the conductors inside the cable so the compound flow won't block up.

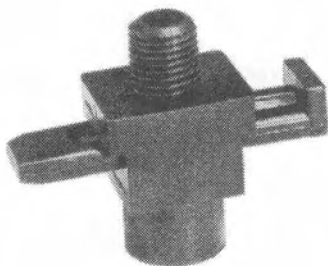
Each fitting also includes a supply of snap-on caps. 4 3/4" long x 4" wide (121 mm L x 102 mm W). 10 fittings/pkg. Wt. 13 oz./pkg. (.37 kg) **PEC-636.**



J Compound Injection Valve

— This three-part plastic valve goes between a J Compound Injection Fitting and Semkit cartridge to boost plugging efficiency by trapping built-in back pressure while keeping the plug clean, even on vertical installations.

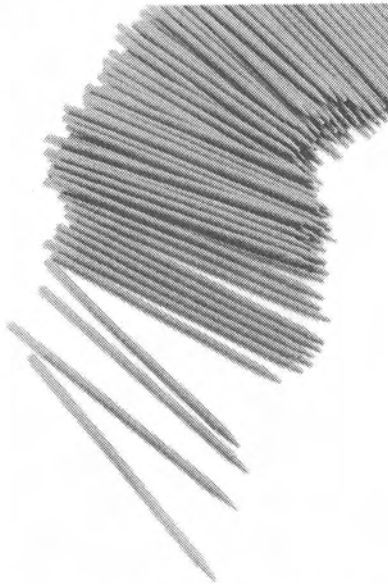
It even helps you cut back on compound costs by keeping the compound from flowing back. 10 valves/pkg. Wt. 8 oz./pkg. (.23 kg) **PEC-620.**



Cable Channeling Pins

— Improve compound flow by using these pins to build a channel between cable conductors or core wraps under the direct sheath injection method.

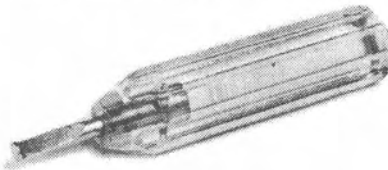
Each smooth polyethylene pin is 1/8" dia. x 4" long (3.2 mm dia. x 102 mm L), with a tapered and radiused tip for easier placement. 100 pins/pkg. Wt. 7 oz./pkg. (.2 kg) **PEC-638.**



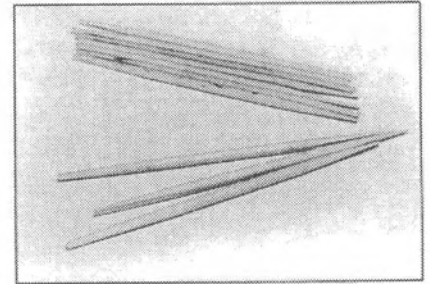
B Cable Core Depressor

— Prevent electrical breakdown from the cable core to the sheath when installing a pressure testing fitting by using this handy tool to separate the core and sheath with strips of muslin.

It's similar to a small screwdriver, but with a special hook-shaped toe at the end of the blade you can use to smooth the sheath underside and tuck muslin underneath. Wt. 2 oz. (.06 kg) **PEC-807.**



Orange Sticks — Perfect for panel equipment work, these 6 7/8" long x 7/32" dia. (175 mm L x 5.5 mm dia.) tapered orangewood sticks help you find tension in commutator springs, or probe and separate wires during cable splicing. 10/pkg. Wt. 4 oz./pkg. (113 g) **PEC-814.**



Spudger — The probe of choice for electrical contacts, this 5/16" dia. x 5 1/2" long (7.9 mm dia. x 140 mm L) dielectric fiber stick has a conical point on one end and a screwdriver blade on the other. Wt. 1 oz. (28 g) **PEC-921.**



Plastic Spudger — Consists of a 5/16" x 6 5/8" long, (7.9 mm x 168 mm L) yellow glass-filled nylon rod tapered at each end. Extending from one end is a bent xylan insulated wire which serves as a hook during wiring operations.

"Approved For C.O. Use" Wt. 1 oz. (28 g) **PEC-922.**



Soap Solution — This special mixture comes in both regular and winter formulas to help find leaks quickly in both polyethylene and lead sheath cables, air pipes and fittings.

This medium-viscosity fluid spreads easily and thoroughly to form durable, highly visible, non-migrating bubbles without stress-cracking.

Each quart-size bottle comes ready for use; just pour it into our B Soap Bucket, then brush it on with the matching Soap Brush (see the previous item).

Regular grade (for use above 32°F/0°C): 4 qts./pkg. (3.8 liters); Wt. 10 lbs./pkg. (4.5 kg); **PEC-846.**

Winter grade (for use below 32°F/0°C): 4 qts./pkg. (3.8 liters); Wt. 10 lbs./pkg. (4.5 kg); **PEC-846W.**

Other sizes are also available; contact us for information on our current selection.



Semkit Cartridge and Nozzles — The easiest way to speed encapsulation, pressure damming or plugging operations in air core cable, uses convenient Semkit cartridges and interchangeable nozzles for extra flexibility.

Each handy 6 oz. (177 cc) cartridge is filled with a free-flowing, two-part poly-urethane compound that thoroughly encapsulates the cable core. It's fast-setting, too; a typical application can hold ten pounds of pressure (69 kPa) at 70° F (21°C) in just an hour.

The J Compound Pressure Injection gun (see bottom right photo) is the right choice for the encapsulation.

Semkit Cartridges: 12 per pkg.

Nozzles: (for use with B Flange; 1/4"-28 UNF on flange side), (for use with C or D Flange; 1/8"-27 NPT on flange side).

PEC-834



PEC-835

PEC-836

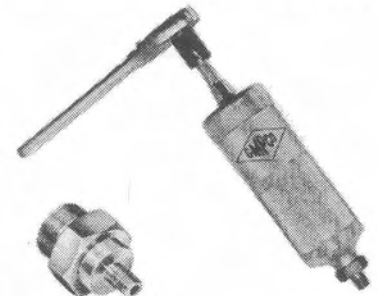
C Pressure Injection Gun — This 8" (203 mm) long heavy-duty gun lets you build high-integrity dams with a minimum of time and effort.

The gun's screw-actuated cup-type plunger and ratchet wrench deliver the right amount of outlet pressure so you can completely fill the cable core with a high density of compound.

The compound chamber can hold up to 10.5 oz. (300 grams) of compound in one load. The all-metal construction means you can warm the compound while it's inside the gun.

Included is a screw-on replaceable nozzle with 1/8"-27 NPT threads for use with C and D Flanges. Wt. 2 lbs. (.9 kg).

PEC-828



PEC-829

J Compound Pressure Injection Gun — This industrial-quality gun is all you need for most operations. The trigger ratchet dispenses compound from a standard 6 oz. (177 cc) cartridge.

PEC-830

