# Washers
## Flat Sealing Washer

Where a waterproof termination is required into any enclosure (metallic or nonmetallic), install the neoprene washer over the threads of a terminal adapter before inserting into the enclosure. Use a standard locknut or threaded bushing to secure the assembly.

| Part No. | Size | Std. Ctn. Qty. |
|---|---|---|
| ▶ E943DW | $1/2$ | 125 |
| ▶ E943EW | $3/4$ | 125 |
| ▶ E943FW | 1 | 100 |
| ▶ E943GW | $1 1/4$ | 50 |
| ▶ E943HW | $1 1/2$ | 50 |
| ▶ E943JW | 2 | 25 |

# Lock Nuts
## PVC Lock Nut

| Part No. | Size | Std. Ctn. Qty. |
|---|---|---|
| ▶ LT9LD | $1/2$ | 1200 |
| ▶ LT9LE | $3/4$ | 700 |
| ▶ LT9LF | 1 | 600 |

# Pull Elbows
## Access Pull Elbows

Gasket included.

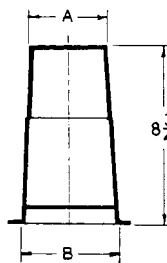| Part No. | Size | Std. Ctn. Qty. | A Typical | B Typical | C Typical | D Typical |
|---|---|---|---|---|---|---|
| E990D | $1/2$ | 75 | .852 | .836 | 2.187 | .718 |
| E990DR-CAR | $1/2$ | 25 | .852 | .836 | 2.187 | .718 |
| E990E | $3/4$ | 50 | 1.064 | 1.046 | 2.531 | .781 |
| E990ER-CAR | $3/4$ | 20 | 1.064 | 1.046 | 2.531 | .781 |

# Sleeves
## HOLFORM™ Concrete Sleeves

HOLFORM nonmetallic concrete sleeve forms are the easy way to form holes in concrete. They install in seconds with nails, screws or staples and are easily removed. Concrete will not adhere to them. HOLFORMS are adjustable to any slab thickness.

| Part No. | Min. O.D. A | B | Std. Ctn. Qty. | Std. Ctn. Wt. (lbs.) |
|---|---|---|---|---|
| ▶ E92CSH | $1 1/2$ | $1 3/4$ | 20 | 3 |
| ▶ E92CSJ | 2 | $2 13/32$ | 25 | 6 |
| ▶ E92CSL | 3 | $3 13/32$ | 25 | 8 |
| ▶ E92CSN | 4 | $4 13/32$ | 18 | 8 |
| ▶ E92CSP | 5 | $5 13/32$ | 15 | 8 |
| ▶ E92CSR | 6 | $6 13/32$ | 12 | 8 |

# Conduit Bodies
## Type X with Cover

Four knock-out type socket openings, 90° spacing. Available with $1/2''$ or $3/4''$ socket outlets. Includes cover and gasket.
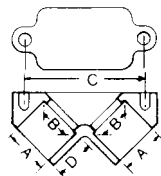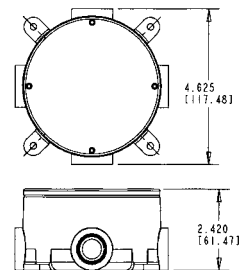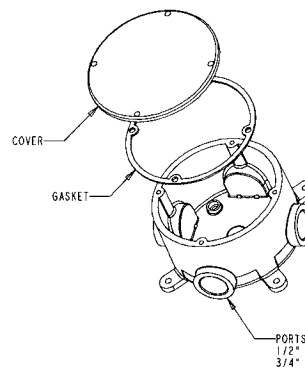
| Part No. | Size | Vol. Cu. In. | Std. Ctn. Qty. |
|---|---|---|---|
| E970CD | $1/2$ | 15.16 | 15 |
| E970CE | $3/4$ | 15.16 | 15 |

Supplied with 4 stainless steel cover screws. Diameter $4 1/8''$, Thickness $1/4''$.
*Not designed for use with wiring devices or light fixtures.

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# Corrosion Resistance of Carlon Schedule 40 and Schedule 80 PVC Conduit and Fittings

Carlon Schedule 40 and Schedule 80 are generally acceptable for use in environments containing the chemicals below. These environmental resistance ratings are based upon tests where the specimens were placed in complete submergence in the reagent listed. Schedule 40 and Schedule 80 can be used in many process areas where chemicals not on this list are manufactured or used because worker safety requirements dictate that any air presence or splashing be at a very low level.

**If there are any questions for specific suitability in a given environment, prototype samples should be tested under actual conditions.**

| | | | | |
|---|---|---|---|---|
| Acetic Acid O-20% | Butyl Alcohol | Fluorine Gas – Wet | Mercurous Nitrate | Sodium Arsenite |
| Acetic Acid 20-30% | Butyl Phenol | Fluorine Gas – Dry | Mercury | Sodium Benzoate |
| Acetic Acid 3O-60% | Butylene | Fluoroboric Acid | Methyl Sulfate | Sodium Bicarbonate |
| Acetic Acid 80% | Butyric Acid | Fluorosilicic Acid | Methylene Chloride | Sodium Bisulfate |
| Acetic Acid – Glacial | Calcium Bisulfite | Formaldehyde | Mineral Oils | Sodium Bisulfite |
| Acetic Acid Vapors | Calcium Carbonate | Formic Acid | Naphthalene | Sodium Bromide |
| Acetylene | Calcium Chlorate | Fructose | Nickel Chloride | Sodium Chlorate |
| Adipic Acid | Calcium Chloride | Gallic Acid | Nickel Nitrate | Sodium Chloride |
| Alum | Calcium Hydroxide | Gas – Coke Oven | Nitric Acid, Anydrous | Sodium Cyanide |
| Aluminum Chloride | Calcium Hypochlorite | Gas – Natural (Dry) | Nitric Acid 20% | Sodium Dichromate |
| Aluminum Fluoride | Calcium Nitrate | Gas – Natural (Wet) | Nitric Acid 40% | Sodium Ferricyanide |
| Aluminum Hydroxide | Calcium Sulfate | Gasoline – Sour | Nitric Acid 60% | Sodium Ferrocyanide |
| Aluminum Oxychloride | Carbonic Acid | Gasoline – Refined | Nitrobenzene | Sodium Fluoride |
| Aluminum Nitrate | Carbon Dioxide Gas – Wet | Glucose | Nitrous Oxide | Sodium Hydroxide |
| Aluminum Sulfate | Carbon Dioxide – Aqueous | Glycerine (Glycerol) | Oils and Fats | Sodium Hypochlorite |
| Ammonia-Dry Gas | Solution | Glycol | Oils – Petroleum – (See Type) | Sodium Nitrate |
| Ammonium Bifluoride | Carbon Monoxide | Glycolic Acid | Oleic Acid | Sodium Nitrite |
| Ammonium Carbonate | Caustic Potash | Green Liquor (Paper Industry) | Oxalic Acid | Sodium Sulfate |
| Ammonium Chloride | Caustic Soda | Heptane | Palmitic Acid 10% | Sodium Sulfide |
| Ammonium Hydroxide 28% | Chloracatic Acid | Hexanol, Tertiary | Perchloric Acid 10% | Sodium Sulfite |
| Ammonium Metaphosphate | Chloral Hydrate | Hydrobromic Acid 20% | Phenylhydrazine Hydrochloride | Sodium Thiosulfate (Hypo) |
| Ammonium Nitrate | Chlorine Gas (Dry) | Hydrochloric Acid 0% - 25% | Phosgene, Gas | Stannic Chloride |
| Ammonium Persulfate | Chlorine Gas (Moist) | Hydrochloric Acid 25% - 40% | Phosphoric Acid – 0-25% | Stannous Chloride |
| Ammonium Phosphate – Neutral | Chlorine Water | Hydrocyanic Acid or | Phosphoric Acid – 25-50% | Stearic Acid |
| Ammonium Sulfate | Chlorosulfonic Acid |    Hydrogen Cyanide | Phosphoric Acid – 50-85% | Sulfur |
| Ammonium Sulfide | Chrome Alum | Hydrofluoric Acid 10% | Photographic Chemicals | Sulfur Dioxide – Gas Dry |
| Ammonium Thiocyanate | Chromic Acid 10% | Hydrofluorosilicic Acid | Plating Solutions | Sulfur Trioxide |
| Amyl Alcohol | Chromic Acid 30% | Hydrogen Phosphide | Potassium Bicarbonate | Sulfuric Acid – 0-10% |
| Anthraquinone | Chromic Acid 40% | Hydrogen Sulfide – Dry | Potassium Bichromate | Sulfuric Acid – 10-75% |
| Anthraquinonesulfonic Acid | Chromic Acid 50% | Hydrogen Sulfide – | Potassium Borate | Sulfuric Acid – 75-90% |
| Antimony Trichloride | Citric Acid |    Aqueous Solution | Potassium Bromide | Sulfurous Acid |
| Aqua Regia | Copper Chloride | Hydroquinone | Potassium Carbonate | Tannic Acid |
| Arsenic Acid 80% | Copper Cyanide | Hydroxylamine Sulfate | Potassium Chloride | Tanning Liquors |
| Arylsulfonic Acid | Copper Fluoride | Iodine | Potassium Chromate | Tartaric Acid |
| Barium Carbonate | Copper Nitrate | Kerosene | Potassium Cyanide | Titanium Tetrachloride |
| Barium Chloride | Copper Sulfate | Lactic Acid 28% | Potassium Dichromate | Triethanolamine |
| Barium Hydroxide | Cottonseed Oil | Lauric Acid | Potassium Ferricyanide | Trimethyl Propane |
| Barium Sulfate | Cresylic Acid 50% | Lauryl Chloride | Potassium Ferrocyanide | Trisodium Phosphate |
| Barium Sulfide | Crude Oil – Sour | Lauryl Sulfate | Potassium Fluoride | Turpentine |
| Beet – Sugar Liquor | Crude Oil – Sweet | Lead Acetate | Potassium Hydroxide | Urea |
| Benzine Sulfonic Acid 10% | Demineralized Water | Lime Sulfur | Potassium Nitrate | Vinegar |
| Benzoic Acid | Dextrin | Linoleic Acid | Potassium Perborate | Whiskey |
| Bismuth Carbonate | Dextrose | Linseed Oil | Potassium Perchlorite | White Liquor (Paper Industry) |
| Black Liquor (Paper Industry) | Diglycolic Acid | Lubricating Oils | Potassium Permanganate 10% | Wines |
| Bleach – 12.5% Active CL$_2$ | Disodium Phosphate | Magnesium Carbonate | Potassium Persulfate | Zinc Chloride |
| Borax | Ethyl Alcohol | Magnesium Chloride | Potassium Sulfate | Zinc Chromate |
| Boric Acid | Ethylene Glycol | Magnesium Hydroxide | Propane | Zinc Cyanide |
| Brine | Fatty Acids | Magnesium Nitrate | Propyl Alcohol | Zinc Nitrate |
| Breeder Pellets – Dane. Fish | Ferric Chloride | Magnesium Sulfate | Silicic Acid | Zinc Sulfate |
| Bromic Acid | Ferric Nitrate | Maleic Acid | Silver Cyanide | |
| Bromine – Water | Ferric Sulfate | Malic Acid | Silver Nitrate | |
| Butane | Ferrous Chloride | Mercuric Chloride | Silver Plating Solutions | |
| Butadiene | Ferrous Sulfate | Mercuric Cyanide | Sodium Acetate | |

## Suggested Format for Specifying Carlon Nonmetallic Conduit, Conduit Fittings and Junction Boxes

**A.** The Carlon rigid nonmetallic conduit system shall be installed as indicated on the drawings and as specified herein.

**B.** All wiring shall be installed in Carlon rigid nonmetallic conduit. All conduit shall be secured by means of proper fittings. All fittings shall be Carlon.

**C.** Carlon outlet boxes, fittings and junction boxes shall be used for all outlets, pull boxes and junction points. (Lighting fixtures shall not be supported or hung from PVC junction boxes but be supported in position by other means.)

**D.** Exposed conduits shall be mounted securely by suitable hangers or straps with the maximum spacing of points of supports not greater than indicated by Section 352.30 of the NEC.

**E.** Except where embedded in concrete or direct buried, Carlon conduit shall be supported to permit adequate lineal movement to allow for expansion and contraction of conduit due to temperature change.

**F.** For aboveground installations where temperature change in excess of 14°C (25°F) is anticipated, expansion joints shall be installed. See Table 352.44(A) NEC for expansion characteristics.

**G.** Proper care shall be taken when field bending is employed to maintain the internal diameter and wall thickness of the conduit.