U- Line® Factory Sealed 20 Amp Plugs and Receptacles

Explosionproof, Dust-Ignitionproof

Dead-Front Safety Construction. Choice of Aluminum or Thermoplastic Polyester Plug.

Class I, Division 1 and 2 Groups B, C, D
Class II, Division 1 and 2 Groups F, G
Class III
NEMA 3, 3R, 7BCD, 9FG

Applications
- Locations where receptacles are used with stationary or portable electrically operated devices such as:
  - Lighting systems
  - Conveyors
  - Heaters
  - Motor-generator sets
  - Air conditioners
  - Compressors
  - Pumps
- Locations with damp or corrosive conditions.
- Class I classified locations where ignitable vapors or gases are present such as:
  - Petrochemical plants
  - Petroleum refineries
  - Paint and chemical plants
- Class II classified locations such as:
  - Process industries where there are dust hazards from handling such products as flour, grain and starch or any location where ignitable amounts of dust are present or amounts which would adversely affect performance.

Features
- Interchangeable with competitor’s plugs of like configurations.
- Factory sealed, external seals not required in most areas. Arcing is safely confined to receptacle interior.
- Choice of aluminum receptacle with malleable iron mounting box or all malleable iron receptacle and box.
- Energized receptacle contacts deeply recessed to reduce danger of accidental touching.
- Unique blade-type, brass contacts exert constant pressure along entire contact surface and provide superior electrical contact.
- Insulators provide superior dielectric and mechanical strength and lowest arcing tracking.
- ECP plug fits any standard non-explosionproof receptacle (NEMA 5-20R, or 6-20R) as well as U-Line explosionproof receptacles.

Standard Materials
- U-Line receptacle and cover copperfree (4/10 of 1% max.) aluminum
- U-Line mounting box: malleable iron
- U-Line M Series receptacle and mounting box: malleable iron
- ECP plugs: copperfree (4/10 of 1% max.) aluminum housings
- Insulating blocks: glass-filled reinforced polyester

Standard Finishes
- Malleable iron mounting boxes: triple-coat—(1) zinc electroplate, (2) chrome and (3) epoxy powder coat
- U-Line receptacles: epoxy powder coat
- Cord connector housings and caps: epoxy powder coat

Options
- U-Line all-aluminum receptacle cover and box. Add suffix -A.

Certifications and Compliances
- UL Listed: E10784, E61751
- UL Standard: 1203, 1010, 894
- CSA Standard: C22.2 No. 25, C22.2 No. 30, C22.2 No. 42, C22 No. 159
- CSA Certified: 038644

Illustrated Features
- Mounting lugs.
- Receptacle housing and cover optional malleable iron on EPS-M Series
- Spring loaded cover seats against rubber gasket.
- U-Line NEMA 4X corrosion resistance screw cover kit available: ULINEREC4XKIT.

- See Plugs and Receptacles: Hazardous Locations for items suitable for Class I, Group B, C and D; Class II, Groups F, G; and Class III. Special U-Line receptacles are UL Classified to mount on Killark SWB boxes. Killark is a registered trademark of Hubbell Incorporated.
### Illustrated Features

**Class I, Division 1 and 2 Groups B, C, D**
**Class II, Division 1 and 2 Groups F, G**
**Class III**
**NEMA 3, 3R, 7BCD, 9FG**

#### Spring door cover
- Keeps dust out of receptacle when plug is not in use, which may be rotated 180° or completely removed. Stainless steel cover spring-completely enclosed for protection from corrosive environments.

#### With plug in use
- Neoprene gasket in throat of receptacle "seals" around plug keeping out dirt, water, dust and other foreign matter.

#### With plug not in use
- Spring-loaded door seats against neoprene gasket to seal receptacle from corrosive atmospheres.

#### Factory sealed receptacle/swich interior
- Switch is an integral part of receptacle interior, contained in an aluminum sleeve. Protective xylan coating on inside of sleeve provides smooth "rotating" action of internal switch, which is activated by rotating plug in receptacle. Entire aluminum sleeve is sealed at both ends with neoprene O-rings to protect receptacle/swich interior against moisture.

#### ECP Interchanger™ plug
- Fits ordinary location receptacles (NEMA 5-20R and NEMA 6-20R) and explosionproof U-Line receptacle as well competitors comparable NEMA blade configured receptacles.

#### For safety
- Ordinary location plug will NOT activate explosionproof U-Line receptacle.

#### Plug mechanical cable clamps
- On the plug prevent strain on cables and meet or exceed UL 150 lb strain relief pull-out test for classified locations.

#### A twist of the plug
- Produces audible "click" to indicate fast make and break of built-in switch contacts. Twisting plug locks it in place—cannot be accidentally pulled out.

#### Solderless lugs
- All terminals are pressure type to facilitate wiring.

#### Longer plug housing
- For better gripping and easier plug insertion and withdrawal.

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*Shaded items on following pages indicate items suitable for Class I, Group B, C and D; Class II, Groups F, G; and Class III.*

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U-Line® Factory Sealed 20 Amp Aluminum Receptacles
Explosionproof, Dust-Ignitionproof
125 Vac, 20 Amp, 1 HP; 250 Vac, 20 Amp, 2 HP. Dead-Front Safety Construction.

Class I, Division 1 Groups B, C, D
Class I, Division 2 Groups B, C, D
Class II, Division 1 and 2 Groups F, G
Class III,

Aluminum Receptacle and Malleable Iron Mounting Box

<table>
<thead>
<tr>
<th>Type</th>
<th>Wire/Pole</th>
<th>Hub Size (Inches)</th>
<th>125 Vac, 1 HP</th>
<th>250 Vac, 2 HP</th>
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<tbody>
<tr>
<td>Single Gang</td>
<td></td>
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<tr>
<td></td>
<td>Dead-End</td>
<td>2W, 3P</td>
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<td>EFS150-2023</td>
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<td>3/4</td>
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<td></td>
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<tr>
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<td>Feed-Thru</td>
<td>2W, 3P</td>
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<tr>
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<tr>
<td>2W, 3P</td>
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<td>EFSR-20232</td>
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<tr>
<td>Spring Door Replacement Assembly (aluminum)</td>
<td>ULSCA</td>
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<tr>
<td>Receptacle for use on Killark® SWB Boxes.</td>
<td>EFSR-2023K</td>
<td>EFSR-20232K</td>
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<tr>
<td>NEMA 4X Corrosion Resistance Kit</td>
<td>ULINEREC4XKIT</td>
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</tbody>
</table>

† Standard back box malleable iron. For aluminum back box, add suffix - A to catalog number.
‡ Seals (not furnished—see Fittings Section) must be placed within 2 inches from each conduit opening. Seals are not required in Class I, Division 2 locations.
▼ NEMA Type 4X when the screw cover is installed and the cover is fully engaged.
● Shaded area indicates items suitable for Class I, Group B, C and D; Class II, Groups F, G; and Class III.
◆ Killark is a registered trademark of Hubbell Incorporated.


**U- Line® Factory Sealed 20 Amp Malleable Iron Receptacles**

*Explosionproof, Dust-Ignitionproof*

125 Vac, 20 Amp, 1 HP; 250 Vac, 20 Amp, 2 HP. Dead-Front Safety Construction.

**Class I, Division 1 Groups B, C, D**
**Class I, Division 2 Groups B, C, D**
**Class II, Division 1 and 2 Groups F, G**
**Class III**

---

**Malleable Iron Receptacle and Malleable Iron Mounting Box**

<table>
<thead>
<tr>
<th>Type</th>
<th>Wire/Pole</th>
<th>Hub Size (Inches)</th>
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<th>250 Vac, 2 HP</th>
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<td>3/4</td>
<td>EFSB175-2023M</td>
<td>EFSB175-20232M</td>
</tr>
</tbody>
</table>

*These models have separate factory sealed chamber—suitable for Class I, Group B as well as Class I, Groups C and D, Class II, Groups F, G, and Class III. No external seals required.*

| Feed-Thru           | 2W, 3P    | 1/2               | EFSB175-2023M | EFSB175-20232M |
|                     |           | 3/4               | EFSB175-2023M | EFSB175-20232M |

---

**Single Gang — Class I, Group B**

**Class I, Division 1 and 2 Groups B, C, D; Class II, Division 1 and 2 Groups F, G; Class III**

<table>
<thead>
<tr>
<th>Type</th>
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<th>Hub Size (Inches)</th>
<th>Catalog Number</th>
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</tr>
<tr>
<td></td>
<td></td>
<td>3/4</td>
<td>EFS150-20232M</td>
</tr>
</tbody>
</table>

*Suitable for use in Class I, Division 1, Group B when used with external seals.*

| Feed-Thru           | 2W, 3P    | 1/2               | EFS175-2023M   |
|                     |           | 3/4               | EFS175-20232M  |

**Two Gang**

**Class I, Division 1 and 2 Groups C, D; Class I, Division 2, Groups B, C, D; Class II, Division 1 and 2 Groups F, G; Class III.**

<table>
<thead>
<tr>
<th>Type</th>
<th>Wire/Pole</th>
<th>Hub Size (Inches)</th>
<th>Catalog Number</th>
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<tbody>
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<td></td>
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</tr>
</tbody>
</table>

| Feed-Thru           | 2W, 3P    | 1/2               | EFS275-2023M   |
|                     |           | 3/4               | EFS275-20232M  |

---

**Malleable Iron Replacement Receptacle Only**

2W, 3P

Spring door replacement assembly (iron)

EFSR-2023M

ULSCM

‡ Seals (not furnished—see Fittings Section) must be placed within 2 inches from each conduit opening. Seals are not required in Class I, Division 2 locations.

* Shaded area indicates items suitable for Class I, Group B, C and D; Class II, Groups F, G; and Class III.

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U-Line® Factory Sealed 20 Amp Receptacles Dimensions

Explosionproof, Dust-Ignitionproof
125 Vac, 20 Amp, 1 HP; 250 Vac, 20 Amp, 2 HP. Dead-Front Safety Construction.

Single Gang Box

Two Gang Box

Side View

* Malleable iron receptacle: 3.38" x 85.6 mm
20 Amp Plugs
For U-Line® 20 Amp Receptacles. Explosionproof, Dust-Ignitionproof
These watertight plugs also fit NEMA 5-20R or 6-20R receptacles in nonclassified areas. Choice of Aluminum or Thermoplastic Polyester Plug.

Class I, Division 1 and 2 Groups B, C, D
Class II, Division 1 and 2 Groups F, G
Class III
NEMA 3, 3R, 7BCD, 9FG

Applications
- U-Line® Interchanger™ ECP plug: suitable for use in such areas as refineries, petrochemical plants, and other areas subject to where ignitable gases are present.
- NCP Plug: ideal where moisture or corrosion is a constant problem, such as production facilities on marine platforms, and pipeline transportation facilities.

Features
- Unique blade-type, brass contacts exert constant pressure along entire contact surface and provide superior electrical contact.
- Insulators provide superior dielectric and mechanical strength and lowest arc tracking.
- Longer plug housing for better gripping and easier plug insertion and withdrawal.

- Plugs fit any standard non-explosionproof receptacle (NEMA 5-15R, 5-20R, or 6-20R) as well as U-Line explosionproof receptacles.
- ECP plug: a twist of the plug produces audible “click” to indicate fast make and break of built-in switch contacts. Twisting plug locks it in place and cannot be accidentally pulled out.
- NCP plug: special neoprene watertight plug bushing accommodates flexible cord ranging from .538” to .639” diameter.

Standard Materials
- ECP plug: copperfree (less than 4/10ths of 1%) aluminum
- NCP plug: 30% glass-reinforced thermoplastic polyester

<table>
<thead>
<tr>
<th>Amp</th>
<th>Diagram</th>
<th>Wire/ Pole</th>
<th>Cable Dia., (Inches)</th>
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<th>250 Vac</th>
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<td>2W, 3P</td>
<td>.538 to .639</td>
<td>ECP-1523</td>
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<td>20</td>
<td><img src="image" alt="U-Line® Interchanger™ ECP Standard Plug" /></td>
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<td>.538 to .639</td>
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<td>20</td>
<td><img src="image" alt="U-Line® Interchanger™ ECP Standard Plug" /></td>
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<td>.538 to .639</td>
<td>——</td>
<td>ECP-20232</td>
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<td><img src="image" alt="NCP Plug" /></td>
<td>2W, 3P</td>
<td>.538 to .639</td>
<td>NCP-1523</td>
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<td><img src="image" alt="NCP Plug" /></td>
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<td>.538 to .639</td>
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<td>——</td>
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<td>20</td>
<td><img src="image" alt="NCP Plug" /></td>
<td>2W, 3P</td>
<td>.538 to .639</td>
<td>——</td>
<td>NCP-20232</td>
</tr>
</tbody>
</table>

Dimensions in Inches/Millimeters

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EFSR- GFI Factory Sealed Ground Fault Circuit Interrupter
For U-Line® 20 Amp Receptacles. Explosionproof, Dust-Ignitionproof
125 Vac branch circuits. Installs in standard EFD Mounting Box.

Class I, Division 1 Groups B, C, D
Class I, Division 2 Groups B, C, D
Class II, Division 1 and 2 Groups E, F, G
Class III
NEMA 3, 3R, 7BCD, 9EFG

Applications
- Provides required ground fault protection for portable electrically-operated devices. Meets all UL and CSA requirements for ground fault protection in hazardous locations.
- Well suited for use in highly corrosive atmospheres and wet locations.
- Can be used in conjunction with U-Line® factory sealed receptacle on 20 Amp, 125 Vac 50/60 Hz branch circuits.

Features
- Factory sealed construction: no external seals are required. Arcing is confined within the device’s interior sealed chamber.
- Rated 20 Amp, 125 Vac, 5 mA trip setting.
- Smooth-operating test and reset buttons.
- Can be installed in standard EFD Series mounting boxes. Choice of malleable iron or aluminum, dead-end or feed-thru styles.

Standard Materials
- Cover and sealing chamber: cast copperfree (less than 4/10ths of 1%) aluminum
- Cover bolts, test and reset buttons and shafts: stainless steel

Standard Finish
- Cover and sealing chamber: baked gray epoxy clad finish

Certifications and Compliances
- UL Listed: E81751
- UL Standard: 943, 1203

<table>
<thead>
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<th>Description</th>
<th>Hub Size (Inches)</th>
<th>Malleable Iron</th>
<th>Aluminum</th>
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<td>GFI Cover and Box — Single Gang</td>
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<tr>
<td>Dead-End</td>
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<td>EFS150-GFI</td>
<td>EFS150A-GFI</td>
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<td>3/4</td>
<td>EFS175-GFI</td>
<td>EFS175A-GFI</td>
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<tr>
<td></td>
<td>1</td>
<td>EFS110-GFI</td>
<td>EFS110A-GFI</td>
</tr>
<tr>
<td>Feed-Thru</td>
<td>1/2</td>
<td>EFS150-GFI</td>
<td>EFS150A-GFI</td>
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<tr>
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<td>3/4</td>
<td>EFS175-GFI</td>
<td>EFS175A-GFI</td>
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<td>EFS110-GFI</td>
<td>EFS110A-GFI</td>
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<td>GFI Cover, U-Line Receptacle and Box — Two Gang</td>
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<td>EFS210-2023GFI</td>
<td>EFS210A-2023GFI</td>
</tr>
</tbody>
</table>

Aluminum Ground Fault Interrupter Cover/Device
Cover may be used with other EFD boxes and U-Line® receptacles in this section. EFSR-GFI

Shaded area indicated items suitable for Class I, Group B.
U-Line® 20 Amp Portable Receptacle with GFCI
Explosionproof, Dust-Ignitionproof
125 Vac. For use on Hazardous or Non-Hazardous Receptacles.

Class I, Division 1 and 2 Groups C, D
Class II, Division 1 and 2 Groups F, G
Class III
NEMA 3, 3R, 7CD, 9FG

Applications
- Provides required portable ground fault protection for electrically-operated devices. Meets all UL and CSA requirements for ground fault protection in hazardous locations.
- Well suited for use in highly corrosive atmospheres and wet locations.

Features
- Arcing is confined within the device's interior.
- Rated 20 Amp, 125 Vac, 5 mA trip setting.
- Provides open neutral protection to maximize safety.
- High intensity LED pilot light rated at 100,000 hours.
- Smooth operating test and reset buttons.
- Heavy duty 3 foot/0.91 meter SO power cord with U-Line 20 Amp NEMA 5-20R plug.
- Lightweight design.
- Convenient carry/hanging handle.
- Plug mates with competitors comparable receptacles. The receptacle also accepts their respective plugs.

Standard Materials
- Covers and back box: cast copperfree (less than 4/10ths of 1%) aluminum.
- Cover bolts, test and reset buttons and shafts: stainless steel.
- Carry/hanging handle: nylon covered galvanized steel.

Standard Finish
- Covers and back box: baked gray epoxy clad finish.

Options
- Incandescent pilot light available, contact local sales representative.

Compliances
- UL Standard: 943, 1203.

Dimensions

<table>
<thead>
<tr>
<th>Amp</th>
<th>Pilot Light</th>
<th>Class I, Division 1 and 2</th>
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<td></td>
<td>Red LED</td>
<td>U2023PGFID1R3</td>
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</table>

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EFD Cast Device Mounting Boxes
For U-Line® 20 Amp Receptacles
Single, Two, Tandem, and One through Five Gang Boxes.

<table>
<thead>
<tr>
<th>Type</th>
<th>Hub Size (Inches)</th>
<th>Malleable Iron</th>
<th>Aluminum</th>
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<td>1</td>
<td>EFDT10-NL-Q</td>
<td>—</td>
</tr>
<tr>
<td>Feed-Thru</td>
<td>1/2</td>
<td>EFDC150-NL-Q</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>3/4</td>
<td>EFDC175-NL-Q</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>EFDC110-NL-Q</td>
<td>—</td>
</tr>
</tbody>
</table>

Blank Bodies for Brazed Hubs
Construct complete catalog number per following page. Hubs will be located in center of walls and evenly spaced unless otherwise specified. Where spacings are critical, submit sketch showing spacing requirements.

<table>
<thead>
<tr>
<th>Gang</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Gang</td>
<td>EFD-1-NL</td>
</tr>
<tr>
<td>2 Gang</td>
<td>EFD-2-NL</td>
</tr>
<tr>
<td>3 Gang</td>
<td>EFD-3-NL</td>
</tr>
<tr>
<td>4 Gang</td>
<td>EFD-4-NL</td>
</tr>
<tr>
<td>5 Gang</td>
<td>EFD-5-NL</td>
</tr>
</tbody>
</table>

† For tandem bodies, eternal seals must be installed within 5 feet/1.52 meters of each conduit entrance or Class I, Group C and D.
Determine catalog number as follows:
(1) Select EFD device box catalog number;
(2) Select “Standard Hub Arrangement Diagram” number;
(3) Select symbols that represent hub sizes from “Symbol Table.” (Use “0” where no hub is required, and separate the various divisions of the complete catalog number by dashes.)

Example
The blank body device box selected is EFD3NL and the hub arrangement is diagram #8. Hub “a” is to be 3/4” brazed threaded; hub “b”, 1” brazed threaded; hub “c”, 3/4” brazed threaded; hub “d”, no hub is required; and hub “e”, 1” brazed union.
The complete catalog number will be: EFD–3NL–8–23203E

If a “Standard Hub Arrangement” is not suitable for the application, or when hubs are to be more accurately spaced, submit sketch locating hubs (1) from centerlines of walls and (2) from outside back of box (or from mounting lug surface if lugs are supplied).

All hubs will be located in centerlines of walls and evenly spaced unless otherwise specified.

Symbol Table

<table>
<thead>
<tr>
<th>Hub Size (Inches)</th>
<th>Brazed Threaded Hub Symbol</th>
<th>Brazed Union Hub Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank</td>
<td>&quot;0&quot;</td>
<td>&quot;0&quot;</td>
</tr>
<tr>
<td>1/2</td>
<td>&quot;1&quot;</td>
<td>&quot;1E&quot;</td>
</tr>
<tr>
<td>3/4</td>
<td>&quot;2&quot;</td>
<td>&quot;2E&quot;</td>
</tr>
<tr>
<td>1</td>
<td>&quot;3&quot;</td>
<td>&quot;3E&quot;</td>
</tr>
</tbody>
</table>

Standard Hub Arrangement Diagrams

Hub “a” is always TOP of box

Two, Three, Four and Five Gang (Front View)