

# FLEXIBLE CONNECTORS

FLEX-ING™ brand flexible connectors have become the industry standard and benchmark for quality as a means to easily connect a pipework system to other system components such as submersible pumps or shear valves. As an integral part of any system, installers enjoy how easy they make connections in tight spaces while station owners have come to depend on their durability and their simplification of regular maintenance. End fittings are available in either nickel plated steel or stainless steel construction. FLEX-ING™ flexible connectors offer multiple diameter and length options as well as a wide offering of end fitting connections so you can create the right flexible connector to fit virtually any application.

## HIGHLIGHTS

- Standard on all flexible connectors, the stainless steel corrugated fuel contact layers feature a thick construction and gain flexibility from having more corrugations per foot rather than thinner walls.
- Enclosing the corrugated fuel contact layer is a stainless steel braid that is manufactured from only high-grade stainless steel.
- Standard end fittings are nickel plated steel with stainless steel construction options available on any flexible connector that does not include a swivel end fitting.
- Available in a multitude of end connections to ensure the right fit for any application - including tees, elbows, and fiberglass transitions.
- All metal construction means one flexible connector for both above and below ground applications (may not be direct buried).
- Schedule 80 hex end fittings protect against deformation of the ends during installation.
- The EZ FIT union style coupling system is specifically designed to make connections in confined spaces simple and tight.
- EZ FIT union style couplings come complete with couplers and gaskets (flange only fittings excluded).

## SPECIFICATIONS

- Meets USA NFPA 30-A fire code requirements.
- Outer shell: 304 stainless steel
- Inner core: 321 stainless steel
- End fittings: Nickel plated steel or stainless steel.
- 100% pressure tested to 100 PSI to assure quality.

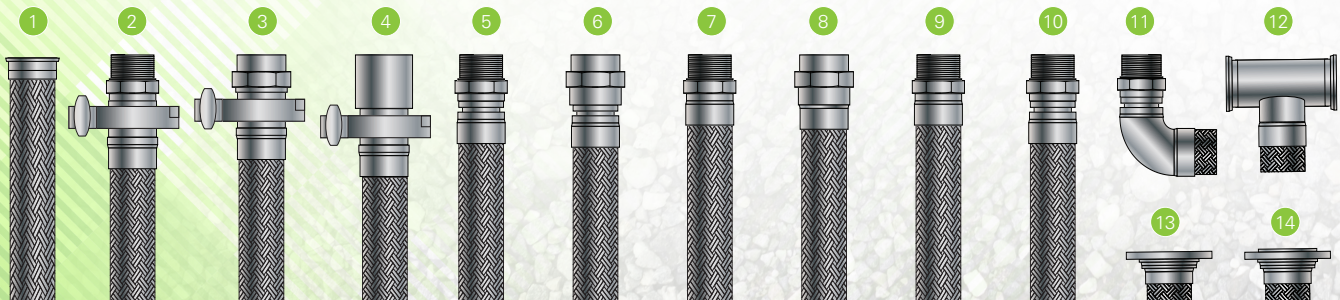
## Approvals/Certifications

- UL 2039 listed for above and below ground installation for use with gasoline, gas alcohol blends (up to E85), diesel, and Biodiesel.
- UL 2039 approved for 50 psi working pressure.

## End Fitting Options

- |                              |                               |
|------------------------------|-------------------------------|
| 1 EZ Fit flange only*        | 8 Hex female fixed (NPT)*     |
| 2 EZ Fit male*               | 9 Hex male fixed (BSPT)*      |
| 3 EZ Fit female*             | 10 Hex male swivel (BSPT)*    |
| 4 EZ Fit fiberglass (glued)* | 11 90° male swivel            |
| 5 Male swivel                | 12 EZ Fit tee flanges only*   |
| 6 Female swivel              | 13 Flat faced round flange*   |
| 7 Hex male fixed (NPT)*      | 14 Raised faced round flange* |

\*Also available in stainless steel.

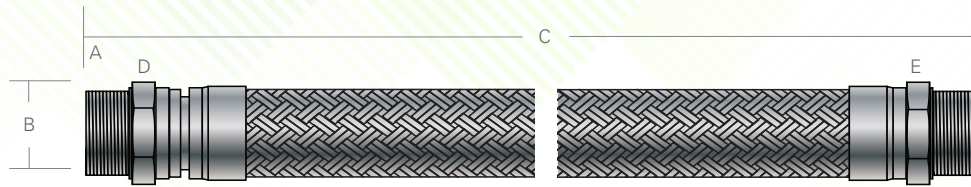




## ORDERING INFORMATION

Use the diagrams below along with the Ordering Guide at the bottom to help you build your flexible connector model numbers.

## Ordering Options Diagram



## End Fitting Options



\*These models feature full stainless steel construction.

## Ordering Guide

Complete flexible connector part numbers have a specific order and are created using the following guidelines. Please note that full stainless steel models are available on any flexible connector that does not include swivel end fittings.

## A B X C D X E

## A = Product Type

FF = If either of the end connections are any type of swivel or EZ Fit, this option must be selected.

FFUL = If both end connections are fixed (non-swivel or EZ Fit), this option must be selected.

## B = Hose Diameter

07 = ¾"

10 = 1"

15 = 1½"

20 = 2"

30 = 3"

40 = 4"

## C = Overall Length in Inches

Use two-digit format

## D &amp; E = End Fitting Options (non-swivel options available in stainless steel)

EZ = EZ FIT flange only (stainless steel only)

EZM = EZ FIT male NPT (SSEZM = stainless steel)

EZF = EZ FIT female NPT (SSEZF = stainless steel)

EZFG = EZ FIT fiberglass glue pipe (SSEZFG = stainless steel)

M346 = Male swivel NPT

F346 = Female swivel NPT

HM = Hex male fixed NPT (SSHM = stainless steel)

HF = Hex female fixed NPT (SSHF = stainless steel)

BT = Hex male fixed BSPT (SSBT = stainless steel)

BTS = Male swivel BSPT

MS90 = 90° with male swivel NPT

EZFFT = EZ Fit Tee (stainless steel only)

SSFF = Flat faced round flange (stainless steel only)

SSRF = Raised faced round flange (stainless steel only)

NOTE: Each EZ FIT union style coupling comes complete with couplers and gaskets.

Examples:

FF20X18M346XHM = Flexible connector with swivel end fitting(s), 2" hose diameter, 18" overall length, with one male swivel end fitting and one fixed Hex male end fitting.

FF20X18SSEZMXSSHM = Flexible connector, 2" hose diameter, 18" overall length, with one stainless steel EZ Fit male end fitting and one stainless steel fixed hex male end fitting, full stainless steel construction.

## Flexible Connectors with Differing Hose and End Fitting Diameters

All end fittings are, by default, the same diameter as the hose. If you require a flexible connector where the end fitting diameter does not match the hose diameter, the size must be indicated numerically in front of the corresponding fitting as in the following example.

Example: FFUL15X18HMX2HM = Flexible connector with fixed end fittings, 1½" hose diameter, 18" overall length, with one 1½" hex male fixed end fitting, and one 2" hex male fixed end fitting.

Rules:

- 1) End fitting diameters can not be smaller than hose diameters.
- 2) Only one hose fitting per flexible connector can be of a different diameter than the hose diameter.
- 3) End fitting diameter must only be one size larger than hose (1" hose could use 1½" fitting, 1½" hose could use 2" fitting, etc.).
- 4) EZ Fit end fittings are available in 1", 2", and 3" only.
- 5) Additional end fitting types are available. Please contact Customer Service with inquiries.



## ORDERING INFORMATION CONTINUED

**Flexible Connector Common Configurations (Nickel Plated Steel End Fittings)**

All include NPT threads unless otherwise specified as BSPT.

| Model           | Description  |
|-----------------|--|
| FFUL15X18HMXHM  | 1½" diameter flexible connector, hex male by hex male, 18" OAL                           |
| FFUL20X18HMXHM  | 2" diameter flexible connector, hex male by hex male, 18" OAL                            |
| FF10X18HMXM346  | 1" diameter flexible connector, hex male by male swivel, 18" OAL                         |
| FF15X12BTXBTS   | 1½" diameter flexible connector, hex male (BSPT) by male swivel (BSPT), 12" OAL          |
| FF15X12HMXM346  | 1½" diameter flexible connector, hex male by male swivel, 12" OAL                        |
| FF15X12M346X2F  | 1½" diameter flexible connector, male swivel by 2" hex female, 12" OAL                   |
| FF15X12M346XEZ  | 1½" diameter flexible connector, male swivel by EZ Fit flange only, 12" OAL              |
| FF15X12SSHMXEZ  | 1½" diameter flexible connector, stainless steel hex male by EZ Fit flange only, 12" OAL |
| FF15X15HMXM346  | 1½" diameter flexible connector, hex male by male swivel, 15" OAL                        |
| FF15X16BTXBTS   | 1½" diameter flexible connector, hex male (BSPT) by male swivel (BSPT), 16" OAL          |
| FF15X16HMXM346  | 1½" diameter flexible connector, hex male by male swivel, 16" OAL                        |
| FF15X18EZMXEFFT | 1½" diameter flexible connector, EZ Fit male by EZ Fit tee, 18" OAL                      |
| FF15X18EZMXEZM  | 1½" diameter flexible connector, EZ Fit male by EZ Fit male 18" OAL                      |
| FF15X18HMXEZM   | 1½" diameter flexible connector, hex male by EZ Fit male, 18" OAL                        |
| FF15X18HMXM346  | 1½" diameter flexible connector, hex male by male swivel, 18" OAL                        |
| FF15X18M346X2F  | 1½" diameter flexible connector, male swivel by 2" hex female, 18" OAL                   |
| FF15X18M346XEZM | 1½" diameter flexible connector, male swivel by EZ Fit male, 18" OAL                     |
| FF15X24HMXM346  | 1½" diameter flexible connector, hex male by male swivel, 24" OAL                        |
| FF20X12HMXM346  | 2" diameter flexible connector, hex male by male swivel, 12" OAL                         |
| FF20X15HMXM346  | 2" diameter flexible connector, hex male by male swivel, 15" OAL                         |
| FF20X18HMXEZF   | 2" diameter flexible connector, hex male by EZ Fit female, 18" OAL                       |
| FF20X18HMXM346  | 2" diameter flexible connector, hex male by male swivel, 18" OAL                         |
| FF20X18M346XF   | 2" diameter flexible connector, male swivel by hex female, 18" OAL                       |
| FF20X24BTXBTS   | 2" diameter flexible connector, hex male (BSPT) by male swivel (BSPT), 24" OAL           |
| FF20X24HMXM346  | 2" diameter flexible connector, hex male by male swivel, 24" OAL                         |
| FF20X24HMXMS90  | 2" diameter flexible connector, hex male by 90° male swivel, 24" OAL                     |

**Flexible Connector Common Configurations (Stainless Steel End Fittings)**

All include NPT threads unless otherwise specified as BSPT.

| Model             | Description   |
|-------------------|---|
| FF15X12SSHMXSSHM  | 1½" diameter stainless steel flexible connector, hex male by hex male, 12" OAL              |
| FF15X18SSHMXSSHM  | 1½" diameter stainless steel flexible connector, hex male by hex male, 18" OAL              |
| FF15X24SSHMXSSHM  | 1½" diameter stainless steel flexible connector, hex male by hex male, 24" OAL              |
| FF15X12SSHMXEZ    | 1½" diameter stainless steel flexible connector, hex male by EZ Fit flange only, 12" OAL    |
| FF15X18SSHMXEZ    | 1½" diameter stainless steel flexible connector, hex male by EZ Fit flange only, 18" OAL    |
| FF15X24SSHMXEZ    | 1½" diameter stainless steel flexible connector, hex male by EZ Fit flange only, 24" OAL    |
| FF15X12EZXSSSEZM  | 1½" diameter stainless steel flexible connector, EZ Fit male by EZ Fit flange only, 12" OAL |
| FF15X18EZXSSSEZM  | 1½" diameter stainless steel flexible connector, EZ Fit male by EZ Fit flange only, 18" OAL |
| FF15X24EZXSSSEZM  | 1½" diameter stainless steel flexible connector, EZ Fit male by EZ Fit flange only, 24" OAL |
| FF15X18SSHMXSSEZM | 1½" diameter stainless steel flexible connector, hex male by EZ Fit male, 18" OAL           |
| FF20X12SSHMXSSHM  | 2" diameter stainless steel flexible connector, hex male by hex male, 12" OAL               |
| FF20X18SSHMXSSHM  | 2" diameter stainless steel flexible connector, hex male by hex male, 18" OAL               |
| FF20X12SSHMXEZ    | 2" diameter stainless steel flexible connector, hex male by EZ Fit flange only, 12" OAL     |
| FF20X18SSHMXEZ    | 2" diameter stainless steel flexible connector, hex male by EZ Fit flange only, 18" OAL     |
| FF20X12EZXSSSEZM  | 2" diameter stainless steel flexible connector, EZ Fit male by EZ Fit flange only, 12" OAL  |
| FF20X18EZXSSSEZM  | 2" diameter stainless steel flexible connector, EZ Fit male by EZ Fit flange only, 18" OAL  |
| FF20X12SSHMXSSEZM | 2" diameter stainless steel flexible connector, hex male by EZ Fit male, 12" OAL            |
| FF20X18SSHMXSSEZM | 2" diameter stainless steel flexible connector, hex male by EZ Fit male, 18" OAL            |



## ORDERING INFORMATION CONTINUED

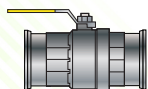
## EZ Fit Accessories



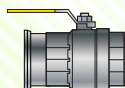
| Model       | Description                                   |
|-------------|---|
| EZFITXEZFIT | 2" EZ Fit × EZ Fit connector, stainless steel |



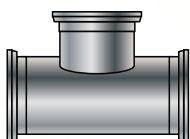
| Model     | Description                      |
|-----------|----------------------------------|
| EZBLANK   | 2" EZ Fit blank, stainless steel |
| EZ30BLANK | 3" EZ Fit blank, stainless steel |



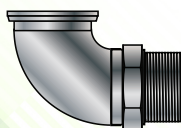
| Model          | Description                                       |
|----------------|---|
| EZXEZX20BV     | 2" EZ Fit × 2" EZ Fit ball valve                  |
| EZX20BV        | 2" EZ Fit × 2" ball valve, brass                  |
| EZXEZX20BVSS   | 2" EZ Fit × 2" EZ Fit ball valve, stainless steel |
| EZX20BVSS      | 2" EZ Fit × 2" ball valve, stainless steel        |
| EZ30XEZX30BV   | 3" EZ Fit × 3" EZ Fit ball valve, brass           |
| EZ30XEZX30BVSS | 3" EZ Fit × 3" EZ Fit ball valve, stainless steel |



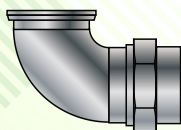
| Model       | Description                                      |
|-------------|--|
| EZXEZ90     | 2" EZ Fit × 2" EZ Fit 90° elbow, stainless steel |
| EZ30XEZ3090 | 3" EZ Fit × 2" EZ Fit 90° elbow, stainless steel |



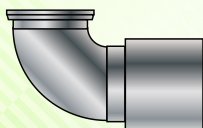
| Model           | Description  |
|-----------------|--|
| EZXEZEZTEE      | 2" EZ Fit × 2" EZ Fit × 2" EZ Fit 1½" tee, stainless steel |
| EZ30XEZ30XEZ30T | 3" EZ Fit × 3" EZ Fit × 3" EZ Fit tee, stainless steel     |
| EZ20XEZ20TEEFF  | 2" EZ Fit × 2" EZ Fit × 2" EZ Fit, 2" tee, stainless steel |



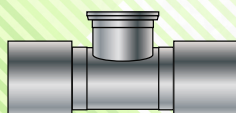
| Model       | Description  |
|-------------|--|
| EZX15HM90   | 2" EZ Fit × 1½" hex male 90° elbow, nickel plated  |
| EZX20HM90   | 2" EZ Fit × 2" hex male 90° elbow, nickel plated   |
| EZX20HM90SS | 2" EZ Fit × 2" hex male 90° elbow, stainless steel |
| EZX30M90    | 3" EZ Fit × 3" male 90° elbow, nickel plated       |



| Model     | Description                                    |
|-----------|--|
| EZX20HF90 | 2" EZ Fit × 2" female 90° elbow, nickel plated |
| EZX30F90  | 3" EZ Fit × 3" female 90° elbow, nickel plated |



| Model     | Description  |
|-----------|--|
| EZX20FG90 | 2" EZ Fit × 2" fiberglass glue pipe 90° elbow, nickel plated |
| EZX30FG90 | 3" EZ Fit × 3" fiberglass glue pipe 90° elbow, nickel plated |



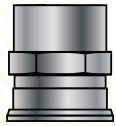
| Model      | Description  |
|------------|--|
| EZX20FGTEE | 2" EZ Fit × 2" fiberglass glue pipe tee, nickel plated |
| EZX30FGTEE | 3" EZ Fit × 3" fiberglass glue pipe tee, nickel plated |



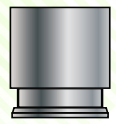
## ORDERING INFORMATION CONTINUED



| Model     | Description                               |
|-----------|---|
| EZX15HMPL | 2" EZ Fit × 1½" hex male, nickel plated   |
| EZX15HMSS | 2" EZ Fit × 1½" hex male, stainless steel |
| EZX20HMPL | 2" EZ Fit × 2" hex male, nickel plated    |
| EZX20HMSS | 2" EZ Fit × 2" hex male, stainless steel  |
| EZX30MP   | 3" EZ Fit × 3" male, nickel plated        |



| Model     | Description                                 |
|-----------|---|
| EZX15HFSS | 2" EZ Fit × 1½" hex female, stainless steel |
| EZX20HFPL | 2" EZ Fit × 2" hex female, nickel plated    |
| EZX20HFSS | 2" EZ Fit × 2" hex female, stainless steel  |



| Model     | Description  |
|-----------|--|
| EZX20FGPL | 2" EZ Fit × 2" fiberglass glue pipe, nickel plated   |
| EZX20FGSS | 2" EZ Fit × 2" fiberglass glue pipe, stainless steel |
| EZX30FGPL | 3" EZ Fit × 3" fiberglass glue pipe, nickel plated   |



| Model     | Description     |
|-----------|-----------------|
| EZ10CLAMP | 1" EZ Fit clamp |
| EZCLAMP   | 2" EZ Fit clamp |
| EZ30CLAMP | 3" EZ Fit clamp |



| Model     | Description      |
|-----------|------------------|
| 407493001 | 1" EZ Fit gasket |
| 407493002 | 2" EZ Fit gasket |
| 407493003 | 3" EZ Fit gasket |



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