



# FSU & FNU system

galvanised steel pvc or nylon coated

## Conduit

### FSU

**Construction:** Galvanised steel, helically wound, flexible conduit with pvc coating.

**Colour:** Black. Grey or Orange on request.\*

**Typical Applications:** General factory wiring and connections to machines.

### FNU

**Construction:** Galvanised steel, helically wound, flexible conduit with elastomeric nylon coating.

**Colour:** Black.

**Typical Applications:** Demanding applications requiring higher temperatures or solvent and abrasion resistance.

## Fittings

### M

**fixed external thread nickel plated brass**

Two part fitting comprising shell and body with external thread. This fitting can be inserted into a knockout and secured with a locknut.

IP54

### S

**swivel external thread nickel plated brass**

Two part fitting comprising shell and body. The external thread swivels about the main body. Can be used with threaded entries, or knockout secured with a locknut.

IP54

### P

**plain hole connector nickel plated brass**

Two part fitting comprising shell and body without thread. The body is fitted through the opposite side of the entry to the conduit and acts as a locking device also providing a smooth entry bush.

IP54



| nominal size (mm) | FSU     | part number | reel length (m) | FNU     | part number | reel length (m) | outside dia (mm) | inside dia (mm) | min inside bend radius (mm) |
|-------------------|---------|-------------|-----------------|---------|-------------|-----------------|------------------|-----------------|-----------------------------|
| 10                | FSU10B+ | 25, 50      |                 |         |             |                 | 10.0             | 6.8             | 25                          |
| 12                | FSU12B  | 25, 50      |                 |         |             |                 | 14.0             | 10.2            | 30                          |
| 16                | FSU16B  | 10, 25, 50  |                 | FNU16B* | 25          |                 | 17.0             | 13.0            | 40                          |
| 20                | FSU20B  | 10, 25, 50  |                 | FNU20B* | 25          |                 | 21.5             | 16.9            | 45                          |
| 25                | FSU25B  | 10, 25, 50  |                 | FNU25B* | 25          |                 | 26.0             | 21.1            | 55                          |
| 32                | FSU32B  | 10, 25      |                 | FNU32B* | 25          |                 | 34.0             | 28.1            | 60                          |
| 40                | FSU40B  | 10, 25      |                 |         |             |                 | 44.5             | 37.6            | 90                          |
| 50                | FSU50B  | 10, 25      |                 |         |             |                 | 55.0             | 48.4            | 100                         |
| 63                | FSU63B  | 10          |                 |         |             |                 | 64.5             | 57.5            | 115                         |
| 75                | FSU75B  | 10          |                 |         |             |                 | 79.0             | 70.0            | 150                         |

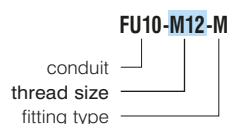
| metric thread part number | PG thread part number | metric thread part number | PG thread part number | hole size (mm) | part number |
|---------------------------|-----------------------|---------------------------|-----------------------|----------------|-------------|
| FSU10-M12-M               | FSU10-PG7-M           | FSU10-M12-S               | FSU10-PG7-S           | 9              | FSU10-P     |
| FSU12-M16-M               | FSU12-PG9-M           | FSU12-M16-S               | FSU12-PG9-S           | 12             | FSU12-P     |
| FSU16-M16-M               | FSU16-PG11-M          | FSU16-M16-S               | FSU16-PG11-S          | 16             | FSU16-P     |
| FSU16-M20-M               |                       | FSU16-M20-S               | FSU16-PG13-S          |                |             |
| FSU20-M20-M               | FSU20-PG16-M          | FSU20-M20-S               | FSU20-PG16-S          | 20             | FSU20-P     |
| FSU25-M25-M               | FSU25-PG21-M          | FSU25-M25-S               | FSU25-PG21-S          | 25             | FSU25-P     |
| FSU32-M32-M               | FSU32-PG29-M          | FSU32-M32-S               | FSU32-PG29-S          | 32             | FSU32-P     |
| FSU40-M40-M               | FSU40-PG36-M          | FSU40-M40-S               | FSU40-PG36-S          | 40             | FSU40-P     |
| FSU50-M50-M               | FSU50-PG48-M          | FSU50-M50-S               | FSU50-PG48-S          | 51             | FSU50-P     |
| FSU63-M63-M               |                       | FSU63-M63-S               |                       | 61             | FSU63-P     |
| FSU75-M75-M               |                       |                           |                       | 75             | FSU75-P     |

## Ordering Notes

- Add reel length eg: FSU20-25M for 25m reel
- FSU fittings used for FNU conduit
- \* Indicates parts made to order on request and may be subject to MOQ and lead time
- + Double interlock section

- Available on request:**
  - low temperature (-40°C) version of FSU
  - longer lengths and bulk packaging
  - cut lengths and assemblies
  - other colours
  - stainless steel fittings (grade 316L)
  - alternative threads
  - 45° elbows 16 to 32mm

## How to read the fittings code



## properties

- High mechanical strength
- Highly flexible
- IP rating: IP54 with standard fittings, IP65 with type C compression fittings
- Temperature range
  - 15°C to +70°C (FSU)
  - 40°C to +120°C (FNU)
- FNU offers high abrasion resistance and solvent resistance
- Low Fire Hazard version available (see type LFHU on page 96)
- Nickel plated brass fittings
- Vibration and shock tested to EN 61373 Cat 2



| F                                                                                                                                                                                                               | C                                                                                                                                                                                         | C-S                                                                                                                                                                            | C90                                                                                                               | coupler                                                                                                           | E                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| <b>fixed internal thread nickel plated brass</b><br>Two part fitting comprising shell and body with internal thread which can be used to couple two pieces of conduit together when used with a swivel fitting. | <b>external thread nickel plated brass</b><br>Multipart compression fitting including elastomeric seal. Can be used for knockouts or threaded entries as fitting rotates until tightened. | <b>external thread nickel plated brass</b><br>Multipart compression fitting including elastomeric seal. The external thread swivels about the main body even after tightening. | <b>external thread elbow nickel plated brass</b><br>Multipart 90° compression fitting including elastomeric seal. | <b>external thread elbow nickel plated brass</b><br>Multipart 90° compression fitting including elastomeric seal. | <b>insert nickel plated brass</b><br>Single part, machined insert to cap end of conduit. |
| IP54                                                                                                                                                                                                            | IP65                                                                                                                                                                                      | IP65                                                                                                                                                                           | IP65                                                                                                              | IP65                                                                                                              |                                                                                          |



| metric thread part number | metric thread part number | PG thread part number | NPT thread part number | metric thread part number | metric thread part number | part number | part number | nominal size (mm) |
|---------------------------|---------------------------|-----------------------|------------------------|---------------------------|---------------------------|-------------|-------------|-------------------|
|                           | FSU10-M12-C               |                       |                        |                           |                           |             | FSU10-E     | 10                |
|                           | FSU12-M16-C               | FSU12-PG9-C           |                        | FSU12-M16-C-S             | FSU12-M16-C90             |             | FSU12-E     | 12                |
| FSU16-M16-F               | FSU16-M16-C               | FSU16-PG11-C          | FSU16-050-C            | FSU16-M16-C-S             | FSU16-M16-C90             | FSU16-FSU16 | FSU16-E     | 16                |
| FSU16-M20-F               | FSU16-M20-C               | FSU16-PG13-C          |                        | FSU16-M20-C-S             | FSU16-M20-C90             |             | FSU16-E     | 16                |
| FSU20-M20-F               | FSU20-M20-C               | FSU20-PG16-C          | FSU20-050-C            | FSU20-M20-C-S             | FSU20-M20-C90             | FSU20-FSU20 | FSU20-E     | 20                |
| FSU25-M25-F               | FSU25-M25-C               | FSU25-PG21-C          | FSU25-075-C            | FSU25-M25-C-S             | FSU25-M25-C90             | FSU25-FSU25 | FSU25-E     | 25                |
| FSU32-M32-F               | FSU32-M32-C               | FSU32-PG29-C          | FSU32-100-C            | FSU32-M32-C-S             | FSU32-M32-C90             | FSU32-FSU32 | FSU32-E     | 32                |
| FSU40-M40-F               | FSU40-M40-C               |                       |                        |                           |                           |             | FSU40-E     | 40                |
| FSU50-M50-F               | FSU50-M50-C               |                       |                        |                           |                           |             | FSU50-E     | 50                |
| FSU63-M63-F               |                           |                       |                        |                           |                           |             | FSU63-E     | 63                |
|                           |                           |                       |                        |                           |                           |             | FSU75-E     | 75                |

Also available in a Contractor Pack - see page 132

## Standards

BS EN IEC 61386



## Technical Drawing

