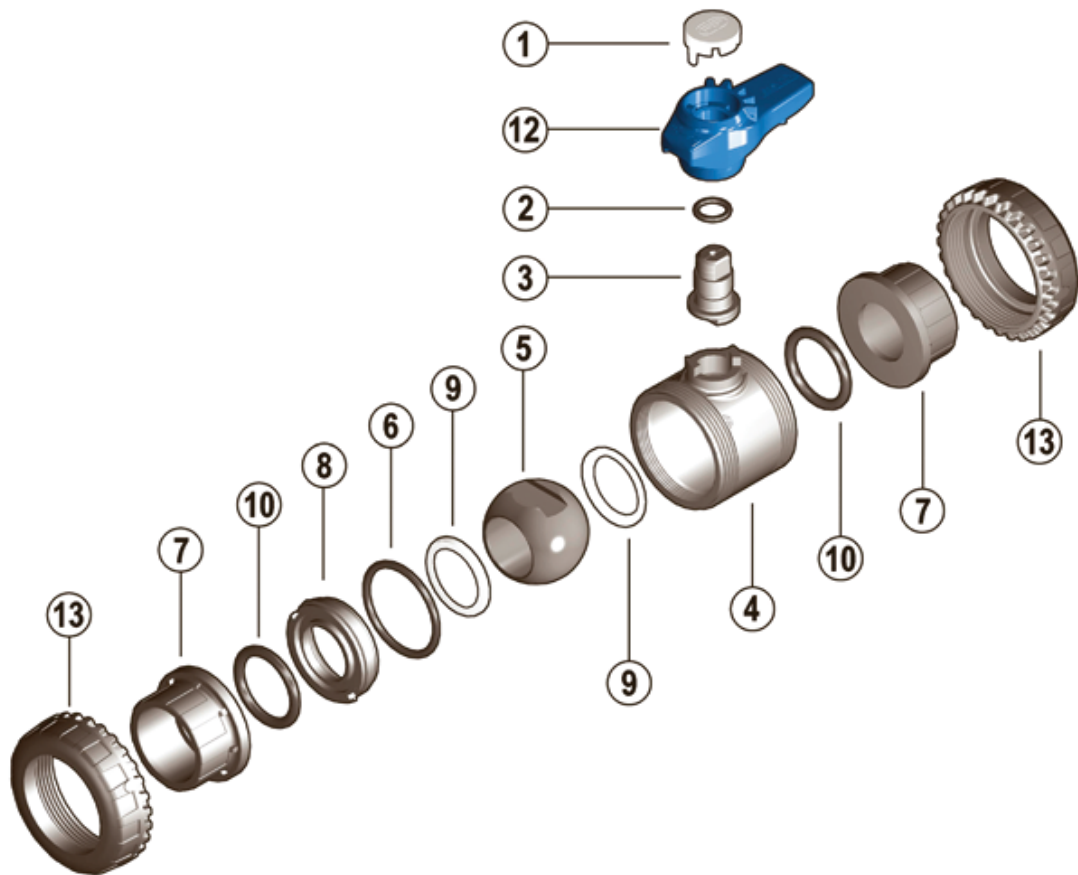


# FIP VEE EasyFit DN10 - DN50 User manual



# COMPONENTS

## EXPLODED VIEW



- 1 Handle plug
- 2 Stem O-rings (EPDM - 2)\*
- 3 Stem (PVC-U - 1)
- 4 Body (PVC-U - 1)

- 5 Ball (PVC-U - 1)
- 6 Radial seal O-Ring (EPDM - 1)\*
- 7 End connector (PVC-U - 2)
- 8 Ball seat carrier (PVC-U - 1)

- 9 Ball seat (PE - 2)\*
- 10 Socket seal O-Ring (EPDM-- 2)\*
- 12 Handle (HIPVC - 1)
- 13 Union nut (PVC-U - 2)

\* Spare parts  
The component material and quantity supplied are indicated in the parentheses.

## DISASSEMBLY

- 1) Isolate the valve from the line (release the pressure and empty the pipeline).
- 2) Fully unscrew the union nuts (13) from the valve body and slide the body out sideways (fig. 5-6). To do this, we recommend you use the Easyfit handle as a tool (fig. 9-10)
- 3) Before dismantling, hold the valve in a vertical position and open it 45° to drain any liquid that might remain.
- 4) After closing the valve, remove the handle (12) (fig. 7) and insert the two protrusions in the lower side in the two apertures and in the carrier passage bore (8), extracting it by turning counter-clockwise (fig. 8).
- 5) Press on the ball from the side opposite the "REGULAR" label, being sure not to scratch it, until the ball seat carrier exits (8), then extract the ball (5).
- 6) Press the stem (3) inwards until it exits the body.
- 7) Remove the O-Rings (2, 6, 10) and ball seats (9) extracting them from their seats, as illustrated in the exploded view.

## ASSEMBLY

- 1) All the O-Rings (2, 6, 10) must be inserted in their grooves as shown in the exploded view.
- 2) Insert the stem (3) from inside the body (4).
- 3) Place the ball seats (9) in the housings in the body (4) and in the carrier (8).
- 4) Insert the ball (5) rotating it to the closed position.
- 5) Screw the carrier (8) into the body and tighten up in the clockwise direction using the handle (12) to limit stop.
- 6) Position the valve between the end connectors (7) and tighten the union nuts (13) clockwise using the Easyfit multifunctional handle, being sure the socket seal O-Rings (10) do not exit the seats.
- 7) Position the handle (12) on the stem (3).



**Note:** during assembly operations, it is advisable to lubricate the rubber seals. Mineral oils are not recommended for this task as they react aggressively with EPDM rubber.

Fig. 5



Fig. 6



Fig. 7



Fig. 8



# INSTALLATION

Before proceeding with installation, please follow these instructions carefully:

- 1) Check that the pipes to be connected to the valve are aligned in order to avoid mechanical stress on the threaded joints.
- 2) Unscrew the union nuts (13) and slide them onto the pipe.
- 3) Solvent weld or screw the end connectors (7) onto the pipe segments.
- 4) Position the valve between the end connectors (fig. 6). Warning: if a high pressure test is required, always position the body with the "REGULAR" label upstream from the fluid direction.
- 5) Fit the union nuts on the valve body and manually tighten clockwise until they become hard to turn; do not use wrenches or other tools that can damage the union nut surfaces.
- 6) Extract the handle (12) from the valve body and extract its grey plug (1) (fig. 2)
- 7) Overturn the handle and insert it on the valve stem matching the handle teeth (A) with the union nut teeth (B) (fig. 9-10).
- 8) Turn the handle counter-clockwise to fully tighten the union nut. The rotation directions to tighten (TIGHTEN) and loosen (UNTIGHTEN) the union nuts are indicated on the handle (fig. 11). Generally, if pipes are not offset, one turn is sufficient for correct tightening.
- 9) Repeat point 7 for the other union nut. Note: A small force applied on the handle develops a torque much higher than manual tightening. You can also, using the Easytorque kit (fig. 12), supplied as an accessory, tighten union nuts using a torque wrench to quantify the force and thus monitor the stress applied to the thermoplastic threads according to the installation indications in the instructions enclosed with the kit.
- 10) Apply the plug (1) on the handle (12) matching the two fittings (one narrow and one wide) with the relevant housings on the handle (fig. 3).
- 11) Install the handle (12) on the stem (3) again.
- 12) If necessary, support the pipe with FIP pipe clip model ZIKM and DSM distance plates.

## WARNINGS

If volatile liquid such as Hydrogen Peroxide (H<sub>2</sub>O<sub>2</sub>) or Sodium Hypochlorite (NaClO) is used, for safety reasons we recommend you contact the service centre. These liquids, upon vaporising, could create hazardous over pressures in the area between the body and ball.

Do not use compressed air or other gases to test thermoplastic lines.

Always avoid sudden closing manoeuvres and protect the valve from accidental manoeuvres.

Fig. 9



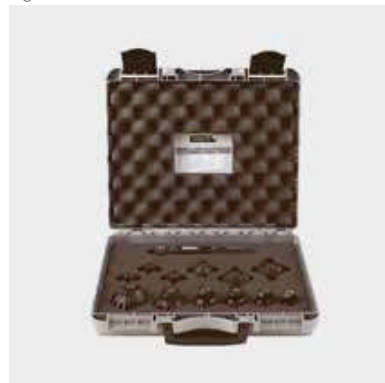
Fig. 10



Fig. 11



Fig. 12



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