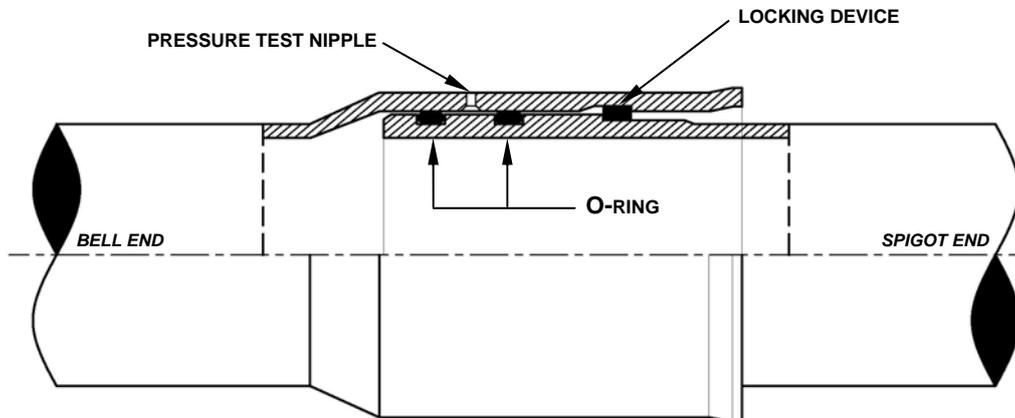


**Technical specification: Bell & spigot joint with double O-ring gasket and locking device (ASF)**



Joint classification: mechanical, slightly flexible, axial restrained.

Material (GRP): “E” glass rovings, mats and woven rovings impregnated with resin (to be selected in relation to the conveyed fluid and to the design temperature).

Description: bell and spigot ends are built during pipe manufacturing to obtain a monolithic structure. Hydraulic tightness is guaranteed by n°2 elastomeric O-ring gaskets placed into the spigot grooves. Joint axial restraining is obtained by a nylon rod inserted in the proper groove on the bell and spigot through one or more openings on the bell.

The test nipple (available from diameter DN200) allows to pressurize the O-rings chamber to check the coupling hydraulic tightness immediately after the joint assembly.

Applications: used in piping systems for civil and industrial applications and installed typically underground but also aboveground and submerged. The standard range of nominal diameters and pressure ratings available are indicated in the table below.

Nominal Diameter (DN) [mm]	(Maximum) Nominal Pressure (PN) [bar]
from 25 to 400	PN 20
from 450 to 1000	PN 16
from 1100 to 2000	PN 10
from 2200 to 2400	PN 6

Non standard joints with higher performances are available upon request.

Plus

- Quick assembly;
- Joint hydraulic tightness check immediately after assembly by the test nipple;
- Removal or reduction of the number and/or size of the anchor blocks;
- Small misalignments absorption during installation (magnitude related to the diameter);
- Thermal expansion absorption;
- Reduction of possible vibrations thanks to the O-ring gaskets;
- Joint monolithically manufactured onto the pipe.