

SMART JOINT

WIDE RANGE COUPLINGS AND FLANGE ADAPTORS WITH END RESTRAINT SYSTEM



VERSIONS	SMPL / SMFPL	
	STANDARD	OPTIONS
NOMINAL SIZES	50 - 300	
PN	From PN 6 to PN 16	
MEDIUM	Potable and raw water	
BODY	Ductile iron	
COMPRESSION RINGS	Ductile iron	
SEALING GASKETS	EPDM rubber	
BOLTS	Steel with dacromet coating	Grade 304/316 stainless steel
END RESTRAINT GRIPPERS	Tempered steel with dacromet coating	
COATING	Rilsan Nylon 11	
ANGULAR DEFLECTION	From DN50 to DN300 = +/-4° on each side with coupling ends*	

*average datum in the middle of the range, before tightening the end restraint system

DESIGN FEATURES OF SMART JOINT COUPLINGS AND FLANGE ADAPTORS WITH END RESTRAINT SYSTEM



- 1 Central body**
 Ductile iron central body conveniently built in order to allow a perfect insertion of the gasket inside its dedicated conical seat.
- 2 Compression ring**
 Ductile iron compression rings which allow compression of the gasket onto the pipe surface upon tightening the bolts.
- 3 Gasket**
 Truncated-cone sealing gasket which can be perfectly inserted between the central body of the coupling and the circumference of the pipe. It allows a complete hydraulic seal and up to 26 mm tolerance range on the pipe OD.
- 4 Bolt holes**
 Round or square holes for the bolt insertion.
- 5 Compression bolts**
 The compression bolts allow the approaching of the compression flanges and the consequent compression of the gasket onto the pipe.
- 6 Radial set of pull-out resistance grippers**
 Manufactured in C40 tempered steel, they allow the total locking of the pipe. End restraint grippers, which can be used on PE, steel, DCI and PVC pipelines, guarantee a pull-out resistance action during the installation and their special design allows an easy assembly and disassembly of the coupling without damaging the Rilsan coating.
- 7 End restraint containing ring**
 Manufactured in ductile iron, it optimizes the pull-out resistance action, also avoiding the rotation of the grippers during the tightening phase.
- 8 Connection flange (Flanged version)**
 Ductile iron flange.