



END RESTRAINT FITTINGS



VERSIONS	MGR-S / MGR-D / MGR-F	
	STANDARD	OPTIONS
NOMINAL SIZES DN	350 - 1400 and bigger	
PN	From PN 10 to PN 16 (higher pressures on request)	
MEDIUM	Potable and raw water	Sea water
BODY	Carbon steel	
COMPRESSION RINGS	Carbon steel	
SEALING GASKETS	EPDM rubber	NBR, NEOPRENE
COMPRESSION BOLTS	Steel with dacromet coating	Grade 304 / 316 stainless steel
END RESTRAINT GRIPPERS	Tempered steel with dacromet coating	Martensitic stainless steel
COATING	Rilsan Nylon 11	
RANGE Ø d	30 mm	
ANGULAR DEFLECTION	From DN350 to DN1000: +/-3° on each side with coupling ends*	
ANGULAR DEFLECTION	From DN1000 to DN1400: +/-2° on each side with coupling ends*	
	* average datum in the middle of the range, before tightening the end restraint system	
FOR FLANGED VERSION	EN 1092	Flanges according to different standards on request
FLANGES	PN 10, PN 16, PN 25, PN 40 and higher ratings	

DESIGN FEATURES OF MULTIGRIP END RESTRAINT FITTINGS



1 Central body

Carbon steel central body conveniently built in order to allow a perfect insertion of the gasket inside its dedicated conical seat.

2 Compression ring

Carbon steel compression followers 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 a 30 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 pipe lines, guarantee a pull-out resistance action 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 carbon steel, optimizes the pull-out resistance action, also avoiding the rotation of the grippers during the tightening phase.

8 Connection flange (Flanged version)

Carbon steel flange.

9 Separate bolts version

The bolts tightening is independent in order to improve the coupling centering and the performances of the gasket.