

Design features of multigrip end restraint steel fittings



1 Central body

Carbon steel central body conveniently built in order to allow a perfect movement 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 of tolerance range on pipe OD.

4 Bolt holes

Round or square holes for the bolt installation.

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 from C40 tempered steel, they allow the total locking of the pipe. End restraint grippers can be used on PE, Steel, DCI and PVC pipe lines and they 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.

6a Bolts

Bolts of stainless steel 8.8, coated with dacromet, for fixing the gripper elements (6).

7 End restraint containing ring

Manufactured from carbon steel, optimizes the pull-out resistance action, also avoiding the rotation of the grippers during the tightening phase.

8 Connection flange (Flanged version)

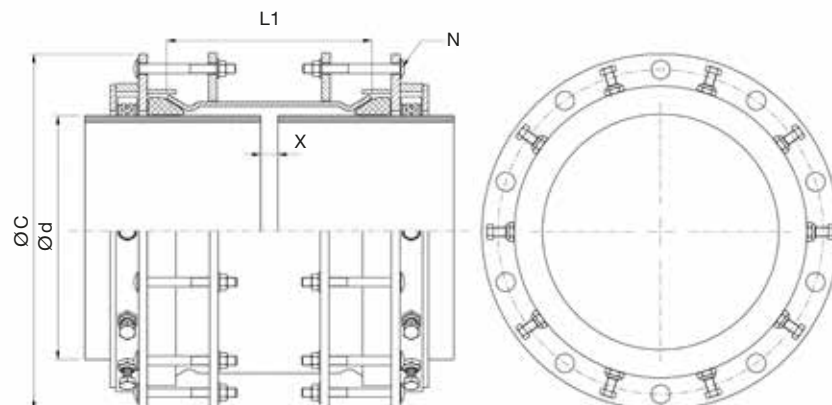
Carbon steel flange.

9 Separate bolts version

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

Multigrip NSMGR-D

Double bolt coupling



PN 10 / PN 16 rated hydraulic sealing and end restraint system

NOVA SIRIA'S end restraint fittings are suitable for the following pipes: steel, Cl/DI, PE, pressure PVC.

All end restraint fittings installed on PE or pressure PVC pipes must be integrated with an internal reinforcing liner provided or approved by NOVA SIRIA.

Other sizes or ranges on request

DN	MOP (PN)	Ø d		L1	max. external dimension Ø C	Compression bolts	Gap X		Weight		
		min.	max.			Quantity N	max.	min.	PN 10	PN 16	
350	10/16	340	370	355	560	18	220	25	127,0	156,0	
		360	390		580				133,0	163,0	
400		385	415		600				144,0	172,0	
		415	445		640				148,0	182,0	
450		440	470		660	24			163,0	199,0	
		465	495		680				170,0	207,0	
500		490	520		720				177,0	216,0	
		515	545		740				184,0	225,0	
560		545	575		788	28			207,0	228,0	
600		595	625		808	30			222,0	244,0	
		615	645		828				228,0	250,0	
700		695	725		908	36			254,0	295,0	
		720	750		933				284,0	307,0	
800		785	815		998				40	304,0	329,0
		795	825		1008					307,0	332,0
		825	855		1038					347,0	355,0
		885	915		1098					367,0	376,0
900		900	930		1113	44			372,0	381,0	
		930	960		1143				386,0	425,0	
1000		985	1015		1198	48			404,0	446,0	
		1000	1030		1213				409,0	451,0	
		1030	1060		1243				447,0	465,0	
1100	10	1100	1130		1313	48	471,0	-			
		1135	1165		1348		499,0	-			
1200		1185	1215		1398		517,0	-			
		1205	1235		1418		525,0	-			
1240		1270	1453		542,0		-				
1400		1385	1415		1598	60	-	-			
		1405	1435		1618		-	-			
		1445	1475		1658		64	-	-		