



The NSP are dry-break couplings with flat face valves. The compact design make them suitable for reduced spaces. Coupling system with single-hand operation.

No spillage during connection/disconnection. Push to connect function. Low pressure drop. Specific design for cooling applications. Can be used either with water and heat transfer oils. Excellent resistance to vibrations and mechanical stresses.

Working Temperature*
-20°C up to +200°C (FKM)
depending on the medium.

* For temperatures below -20°C and over +200°C and depending on the medium, other seal variants (NBR, EPDM, FFKM) are available.



Working Pressure**

60 bar

** maximum static working pressure with safety factor 4 to 1.

Material

Coupling: Brass/Stainless Steel

Plug: Brass/Stainless Steel

Seals: FKM

Technical Description

Dead space volume DN 6: 0,01 ml

Dead space volume DN 9: 0,04 ml

Dead space volume DN 12: 0,1 ml

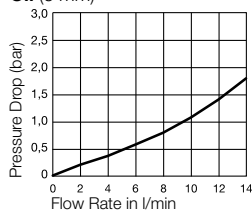
Connecting Force 0 bar DN 6: 110 N

Connecting Force 0 bar DN 9: 95 N

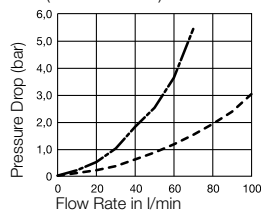
Connecting Force 0 bar DN 12: 195 N

Flow diagrams

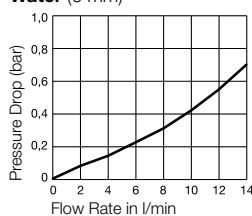
Oil (6 mm)



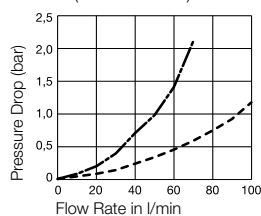
Oil (9 and 12 mm)



Water (6 mm)



Water (9 and 12 mm)

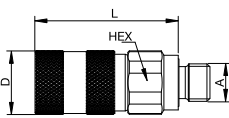
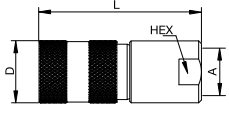
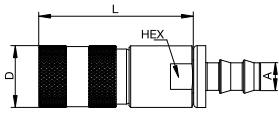


— DN 6 mm
 - - - DN 9 mm
 - - - DN 12 mm



Couplings – flat sealing

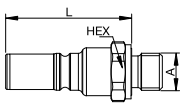
Series NSP

	DN	Connection A	HEX mm	L mm	D mm	Part Number
 <p>Male Thread</p>	6	G 1/4	21	51,7	22	NSP-251-4MBE ¹
	6	M 16 x 1,5	20	44,8	22	NSP-251-16MCL ²
	9	G 3/8	27	63	30	NSP-371-6MBO
	12	G 1/2	35	90,4	42	NSP-501-8MBO
 <p>Female Thread</p>	6	G 1/4	20	57,9	22	NSP-251-4FB
	9	G 3/8	27	72	30	NSP-371-6FB
	12	G 1/2	35	99,4	42	NSP-501-8FB
 <p>Hose Barb</p>	6	10 mm	20	55,2	22	NSP-251-6PL



Plugs – flat sealing

Series NSI

	DN	Connection A	HEX mm	L mm	D mm	Part Number
 <p>Male Thread</p>	6	G 1/4	19	44		NSI-252-4MBE ¹
	9	G 3/8	24	60,2		NSI-372-6MBO
	12	G 1/2	32	79,1		NSI-502-8MBO

¹ End connection according to ISO1179-2 ED seal

² End connection according to DIN 2353 24° cone

⚠ Please consider our security advices on the pages 12/13 ⚠

Flat Sealing

Low Pressure