



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

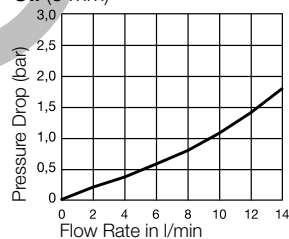
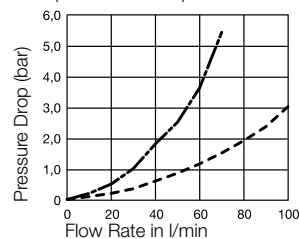
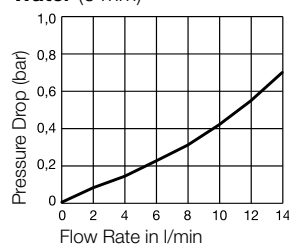
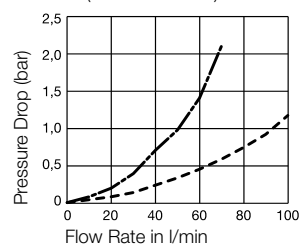
Dead space volume DN 9: 0,04 ml

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

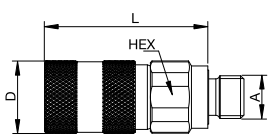
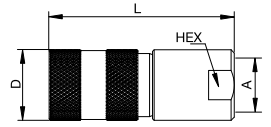
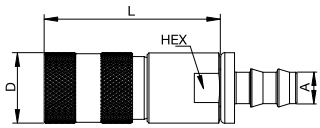
**Flow diagrams****Oil (6 mm)****Oil (9 and 12 mm)****Water (6 mm)****Water (9 and 12 mm)**

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



## Couplings – flat sealing

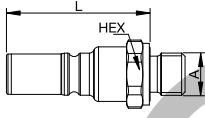
## Series NSP

	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 <sup>1</sup>
	6	M 16 x 1,5	20	44,8	22	NSP-251-16MCL <sup>2</sup>
	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 <sup>1</sup>
	9	G 3/8	24	60,2		NSI-372-6MBO
	12	G 1/2	32	79,1		NSI-502-8MBO

<sup>1</sup> End connection according to ISO1179-2 ED seal

<sup>2</sup> End connection according to DIN 2353 24° cone