

Quick connect coupling SP-A Cupla 3S-A, stainless steel - Nitto Kohki 345220310

Item no. NKH-345220310

Manufacturer Nitto Kohki

The socket receives the plug and locks it with a sliding sleeve that is pulled back single-handed to release the connection. It shuts off on its own as well, so the line can stay pressurised after disconnection. A snap-in sleeve stopper is available as an accessory to prevent accidental release. Model 3S-A, stainless steel, Seal material FKM.

TECHNICAL DATA

Betriebsdruck max [bar]	75.000000
Material	Stainless steel
Weight	0.05 kg



DESCRIPTION

The Nitto Kohki SP-A Cupla joins water, oil, chemical and compressed air lines by hand and holds working pressures from 1.5 to 7.5 MPa (15 to 76 kgf/cm²). Its two-way shut-off closes plug and socket separately on disconnection, so the media stays inside the line.

- Two-way shut-off closes plug and socket independently, and on sizes 1SP-A to 8SP-A the self-aligned valve head returns cleanly into its seat
- Working pressure of 1.5 to 7.5 MPa (15 to 76 kgf/cm²) for water, hydraulic oil, chemicals, air and gas
- Flow volume increased by 7 to 64 percent compared with the conventional SP Cupla of the same size
- Three seal materials cover -40 to +180 °C: NBR from -20 to +80 °C, FKM from -20 to +180 °C, EPDM from -40 to +150 °C
- Body available in brass, nickel-plated steel or stainless steel SUS304, with flow characteristics that stay identical across all body materials
- Low media loss: a 1SP-A releases only 0.4 mL per disconnection and admits 0.6 mL of air when connected

TECHNICAL DATA

Model

3S-A

Coupling part	socket
Body material	stainless steel
Seal material	FKM
Working pressure	1.5 to 7.5 MPa (75 bar)
Valve structure	Two-way shut-off
Article number	345220310

APPLICATIONS

- Cooling water circuits on machine tools and injection moulds with frequent tool changes
- Hydraulic lines in the medium pressure range up to 7.5 MPa
- Compressed air and gas lines on assembly and test benches
- Chemical lines that call for FKM or EPDM seals and a stainless steel SUS304 body
- Vacuum duty down to 1.3×10^{-1} Pa (1×10^{-3} mmHg), operational in the connected state

COMPATIBILITY

SP-A couplings of the same size are interchangeable with the conventional SP Cupla, while different sizes cannot be mated with each other. Connection to SP-V Cupla is possible, in which case the differing flow rate has to be taken into account. Once coupled, fluid may flow in either direction, from the plug side or from the socket side.

STANDARDS AND COMPLIANCE

The steel body is nickel-plated and complies with RoHS requirements, the stainless steel version uses SUS304.