

## Quick connect coupling SP-A Cupla 12P-A, R 1 1/2, steel - Nitto Kohki 345311220

Item no. NKH-345311220

Manufacturer Nitto Kohki

The plug is the insertable half of the SP-A Cupla and is screwed permanently to the line or the equipment. Its valve shuts automatically on disconnection, and on sizes 1P-A to 8P-A the self-aligned valve head returns into its seat. Port threads run from 1/8 inch to 2 inch, male thread versions (1P-M-A to 8P-M-A) are supplied in brass. Model 12P-A, Port size R 1 1/2, steel, Seal material NBR.

### TECHNICAL DATA

Betriebsdruck max [bar] **75.000000**

Material **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/cm<sup>2</sup>). 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/cm<sup>2</sup>) 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

12P-A

|                         |                         |
|-------------------------|-------------------------|
| <b>Coupling part</b>    | plug                    |
| <b>Port size</b>        | R 1 1/2                 |
| <b>Body material</b>    | steel                   |
| <b>Seal material</b>    | NBR                     |
| <b>Working pressure</b> | 1.5 to 7.5 MPa (75 bar) |
| <b>Valve structure</b>  | Two-way shut-off        |
| <b>Article number</b>   | 345311220               |

## 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  $1.3 \times 10^{-1}$  Pa ( $1 \times 10^{-3}$  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.