

Quick connect coupling Zero Spill Cupla ZEL-2P, R 1/4, stainless steel - Nitto Kohki 345522022

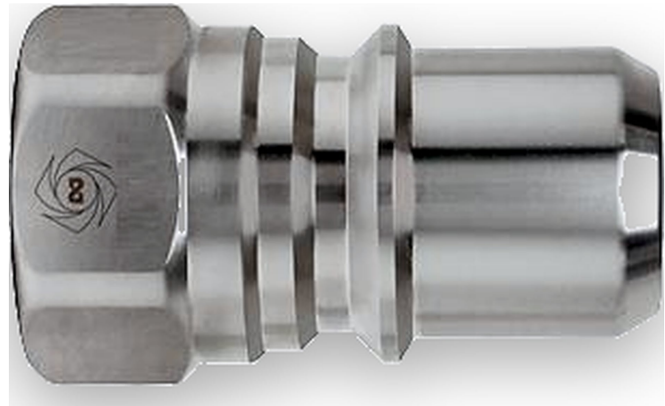
Item no. NKH-345522022

Manufacturer Nitto Kohki

The plug of the Zerospill Cupla is pushed into the socket with one hand, without any sleeve to operate. On disconnection its own valve closes automatically and the line on the plug side stays filled. It carries a female thread and is usually fitted on the moving side or at the consumer. Model ZEL-2P, Port size R 1/4, stainless steel, Seal material FKM.

TECHNICAL DATA

Betriebsdruck max [bar]	35.000000
Material	Stainless steel
Weight	0.05 kg



DESCRIPTION

Every disconnection of a fluid line leaves residue in the coupling and lets air into the circuit on reconnection. The Nitto Kohki Zerospill Cupla shuts off on both the socket and the plug side and keeps spillage between 0.06 and 0.55 mL per disconnection at a working pressure of up to 3.5 MPa.

- Valves in both socket and plug close automatically on disconnection. Spillage stays between 0.06 mL (ZEL-2SP) and 0.55 mL (ZEL-8SP) depending on size.
- Air admixture on connection is limited to 0.16 mL up to 1.52 mL, which keeps cooling and hydraulic circuits free of entrained air.
- Working pressure of 3.5 MPa (35 bar, 508 PSI) for water, hydraulic oil, air, gas and chemicals.
- Three seal materials cover different temperature windows: NBR from -20 to +80 degrees Celsius, FKM from -20 to +180 degrees Celsius, EPDM from -40 to +150 degrees Celsius.
- Bodies in brass or stainless steel SUS 304, in five port sizes from R 1/4 to R 1.
- The low friction valve movement and the push to connect design shorten connection time and reduce wear on the valve parts.

TECHNICAL DATA

Model	ZEL-2P
Coupling part	plug
Port size	R 1/4

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Body material	stainless steel
Seal material	FKM
Working pressure	3.5 MPa (35 bar)
Valve structure	Two-way shut-off
Article number	345522022

APPLICATIONS

- Closed water cooling circuits on machine tools and test rigs
- Hydraulic oil lines operating at up to 3.5 MPa
- Chemical lines where drip loss at the coupling point has to be avoided
- Gas and compressed air lines with frequently exchanged consumers
- Vacuum service down to 1.3×10^{-1} Pa in the connected state

COMPATIBILITY

Once connected, fluid can flow in either direction, from the plug side or from the socket side. Sockets and plugs of different sizes cannot be connected to each other, so size always mates with matching size.

STANDARDS AND COMPLIANCE

The stainless steel version is made of SUS 304 and all ports are female threads from Rc 1/4 to Rc 1.