

Quick connect coupling HSP Cupla 4HP-GS, G 1/2, steel - Nitto Kohki 363104209

Item no. NKH-363104209

Manufacturer Nitto Kohki

The socket receives the plug and holds it with the locking sleeve. It closes automatically on disconnection as well, so the line stays sealed on the oil side. For 2HS to 8HS with female thread, 66HS excepted, the PL version with safety sleeve lock is available as standard. Model 4HP-GS, Port size G 1/2, steel, Seal material NBR.

TECHNICAL DATA

Betriebsdruck max [bar] **206.000000**

Material **Steel**

Weight **0.05 kg**


DESCRIPTION

Hydraulic lines that are opened and closed at power units, clamping fixtures or test rigs need a connection that takes pressure impulses and stays dry on release. HSP Cupla works from 14.0 to 20.6 MPa in port sizes 1/4 inch to 2 inch and shuts off in socket and plug at the same time.

- Working pressure up to 20.6 MPa in sizes 1/4 inch to 1 inch, 18.0 MPa in 1 1/4 and 1 1/2 inch and 14.0 MPa in 2 inch, which covers the range of common hydraulic power units.
- Quenched special steel body with nickel plating, built to take vibration, impact and pressure impulses.
- Automatic shut-off valves in both socket and plug keep the hydraulic oil in the line on disconnection and keep the workplace clean.
- Male thread versions deliver 5 to 10 percent more flow than a female thread version with a commercial conversion nipple and are shorter overall because they mount directly on the power unit.
- NBR as the standard seal for -20 °C to +80 °C, FKM available on request for -20 °C to +180 °C.
- Once coupled, fluid may flow in either direction, and the low pressure loss suits hydraulic oil of 32 x 10⁻⁶ m²/s viscosity.

TECHNICAL DATA

Model

4HP-GS

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Coupling part	socket
Port size	G 1/2
Body material	steel
Seal material	NBR
Working pressure	14.0 to 20.6 MPa (206 bar)
Valve structure	Two-way shut-off
Article number	363104209

APPLICATIONS

- Direct connection to hydraulic power units using the male tapered or male parallel thread versions
- Tool and cylinder changes on hydraulic clamping and pressing equipment
- Die casting machines with severe pressure variation, covered by the optional HSP-DC version
- Test and measuring benches where oil lines are disconnected and reconnected in cycles
- Vacuum service, released for the coupled pair only and not for socket or plug on its own

COMPATIBILITY

4HSP connects with 6HSP and 10HSP with 12HSP. Other combinations of different sizes are not connectable. There is no interchangeability between HSP Cupla and 210 Cupla or 280 Cupla, even where sizes look similar.

STANDARDS AND COMPLIANCE

The counterpart of the GP version is a female parallel thread to JIS B 8363 with 30 degree cone-seat, the counterpart of the GS version is a female parallel thread to JIS B 8363 with 30 degree flare, and parallel thread versions accept both metal seal and commercial O-rings in sizes P-11 to P-24.