

Quick connect coupling SP-V-A Cupla 3S-V-A, stainless steel - Nitto Kohki 459863857

Item no. NKH-459863857

Manufacturer Nitto Kohki

The socket receives the plug and closes through its own valve on disconnection, so no refrigerant is left in an open line. The seal material, CR, HNBR or FKM, decides which refrigerants and which temperature range the connection suits. Bodies come in brass or stainless steel, and the sleeve shape of 4S-V and 6S-V differs from the smaller sizes. Model 3S-V-A, stainless steel, Seal material HNBR.

TECHNICAL DATA

Betriebsdruck max [bar] **75.000000**

Material **Stainless steel**

Weight **0.05 kg**


DESCRIPTION

When refrigerant circuits are evacuated and charged, an open line must neither draw in air nor lose fluid. SP-V-A Cupla carries an automatic shut-off valve in both socket and plug and stays vacuum tight down to 1.3×10^{-1} Pa even when disconnected.

- Two-way shut-off with an automatic valve in socket and plug, so both halves close by themselves on disconnection.
- Suitable for vacuum service down to 1.3×10^{-1} Pa (1×10^{-3} mmHg) even when disconnected, with a straight guide that stabilises valve movement.
- Working pressure of 3.0 to 7.5 MPa (31 to 76 kgf/cm²), with 1/4 and 3/8 inch reaching 7.5 MPa and 1/2 and 3/4 inch reaching 4.5 MPa.
- Three standard seal materials, CR for -20 to +80 °C, HNBR for -20 to +120 °C and FKM for -20 to +180 °C.
- HNBR resists HFC-134a, HFC-407C, HFC-410A and HFC-404A as well as PAG and ester type oils, while CR is aimed at HCFC-22 and HFC-134a.
- Low air admixture on connection, 1.0 mL on 2SP-V, 2.4 mL on 3SP-V, 3.2 mL on 4SP-V and 10.5 mL on 6SP-V.

TECHNICAL DATA

Model

3S-V-A

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Coupling part	socket
Body material	stainless steel
Seal material	HNBR
Working pressure	3.0 to 7.5 MPa (75 bar)
Valve structure	Two-way shut-off
Article number	459863857

APPLICATIONS

- Air conditioner production lines with refrigerant charging
- Refrigerator and refrigeration equipment production lines
- Evacuating circuits before they are filled
- Inert gas, gas and compressed air lines
- Test and filling stations running water or air

COMPATIBILITY

Socket and plug must be of the same size, since different sizes cannot be connected. Connection to SP Cupla Type A is possible provided the resulting flow rate reduction is taken into account, and once coupled the fluid may flow from either the plug or the socket side.

STANDARDS AND COMPLIANCE

Ends are supplied as R 1/4 to R 3/4 male threads and Rc 1/4 to Rc 3/4 female threads, maximum tightening torques run from 9 to 50 Nm on brass and from 14 to 90 Nm on stainless steel, and the seal materials are chloroprene rubber (CR), fluoro rubber (FKM) and hydrogenated nitrile rubber (HNBR).