

HCB 28/L Non-spill quick-release couplings in aluminum





Applications

- Various industries
- Equipment for aircraft refueling vehicles, pump units, distribution systems, flexible storage tanks
- Quick connection of refueling hose and refuelling tools

Compatibility

- Fuels
- Oils
- Non-corrosive fluids
- Neutral gases

Non-spill technology

The HCB 28/L couplings are perfectly non-spill thanks to the flat face design:

- no air enters circuits during connection
- no pollution of environment during disconnection

Excellent flow / size ratio

Ergonomic and light weight

- Aluminum alloy construction
- Rotating connection to the hose allows free movement of the socket; preventing stress or distortion.

Reliable and quick connection

- The bayonet system ensures the total safety of the locking.
- Thanks to the automatic locking at the end of process and the handwheel, this coupling is easy to handle.

Reliability over time

- A protective sleeve protects the plug against shock.



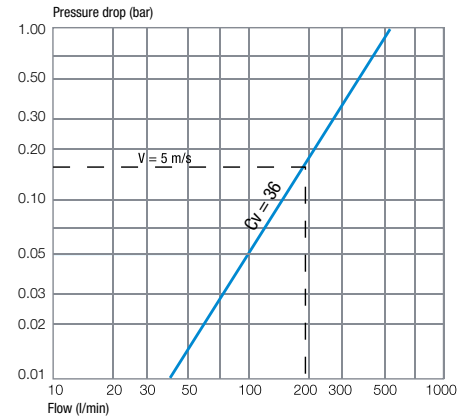
The opportunity to spend less and contribute to a sustainable development programme.

With Stäubli, you can rely on the performance of your equipment, reliability of long-term investments, no workplace pollution.

Technical characteristics

Diameter of flow (mm)	28	
Shut-off	double	
Operating temperature (°C)		
- with Nitrile seals (standard)	-15 to +100	
- with Ethylene-Propylene seals (JE)	-20 to +150	
- with Fluorocarbon seals (JV)	0 to +200	
- with Perfluoroelastomer seals (JK)	0 to +200	
- with Fluorosilicone seals (JS3)	-40 to +175	
- dust cap (chloroprene)	-20 to +100	
Max. operating pressure (bar)	t° < 150°C	50
	t° > 150°C	16
Fluid loss during disconnection under 3 bars (cm³)	0.26	
Connection and disconnection under residual pressure (bar)	0.5	
Weight of socket (female version) (kg)	1.1	
Weight of plug (female version) (kg)	1.4	
Weight of plug with handwheel (female version) (kg)	1.8	

Hydraulic flow / Pressure drop



Test conditions

Water

Density: 998 kg/m³

Viscosity: 1,08 cSt

Direction of flow: plug → socket

Designation	Thread F	Part-numbers
Socket BSP male thread Sealing : - 60° cone - sealing ring 	G 1 1/4	HCB 28.1156/L
Socket, female threaded 	G 1 1/4	HCB 28.1106/L
Plug BSP male threaded Sealing : - 60° cone - sealing ring 	G 1 1/4	with handwheel: HCB 28.7156/L/VT
		without handwheel: HCB 28.7156/L
Plug, female threaded 	G 1 1/4	with handwheel: HCB 28.7106/L/VT
		without handwheel: HCB 28.7106/L
Spare parts:	Dust cap for socket Dust cap for plug	R 044 906 00 R 044 926 00

Nitrile seals as standard. Others types of seals, add at the end of the part-numbers:

/JE for Ethylene-Propylen - /JV for Fluorocarbon - /JK for Perfluoroelastomer - /JS3 for Fluorosilicone



Compatible with KES sealing kits: consisting of a retaining ring and O-ring to create a perfect seal between the socket and its base. Please order separately, consult our documentation RP0030301.

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○ Connectors distributors

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