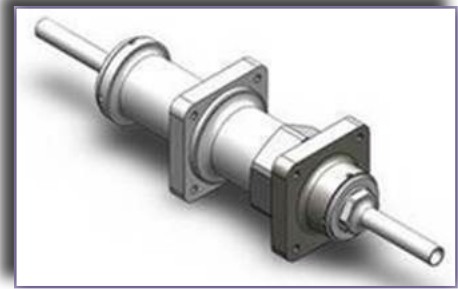


# Small Quick Disconnects

High Pressure Quick Disconnect Couplings



Valcor Engineering Corporation



## DESCRIPTION

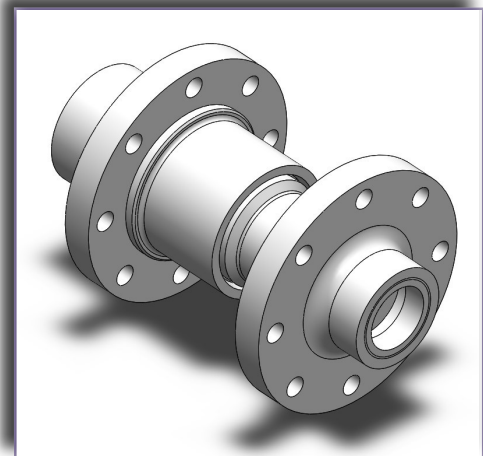
Valcor's Quick Disconnect couplings are designed for demanding aerospace applications where the ability to quickly disconnect and reconnect system control lines is critical. They are well-suited for the extreme vibration, temperature, and high pressure requirements found in the most severe launch vehicle and spacecraft operating conditions. The couplings are designed to minimize in-service flow restrictions and liquid loss during the decoupling process. Once decoupled, the dual shutoff couplings seal off both lines to prevent system depressurization and loss of media. Valcor QDs are engineered to order based on customer specifications.

## APPLICATION

The QDs are typically used on lines for fuel, hydraulic fluid, rocket propellant and pressurization gases and liquids, that require the temporary separation of process lines.

## FEATURES

- 90% Hydrogen Peroxide, Isopropyl Alcohol, GHe, GN2, Deionized Water, RP-1, PGW
- Inlet/Outlet Diameters: 1/2", 3/4"
- Body Materials: 316L, 15-5 PH
- Wetted Materials: CRES, Titanium, Zirconium
- Temperature Range: -18°F to 160°F
- Flow Rates: 3/4"=0.21" ESEO @850 psid, 3/4"=0.46 ESEO @850 psid, 1/2"=0.24" ESEO @83 psid
- Operating Pressure: up to 850 psid



Custom designs are our specialty. Contact us today to see how we can help on your next project.

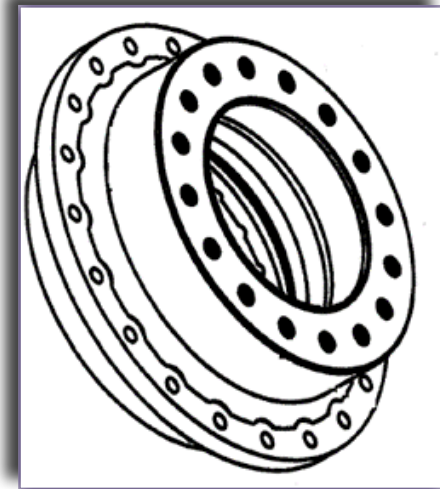
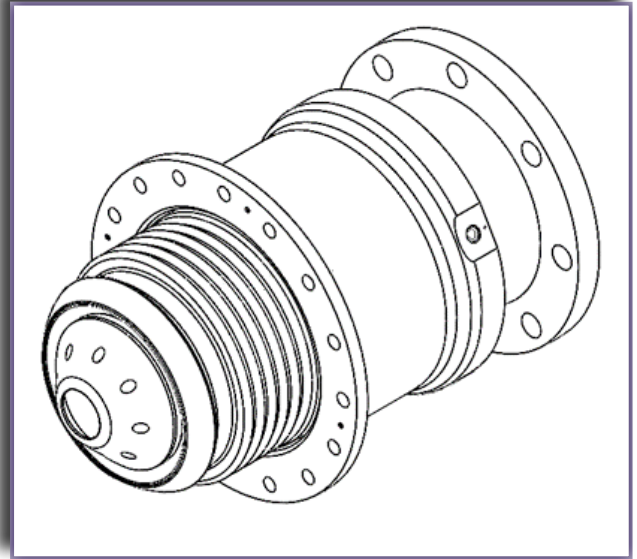
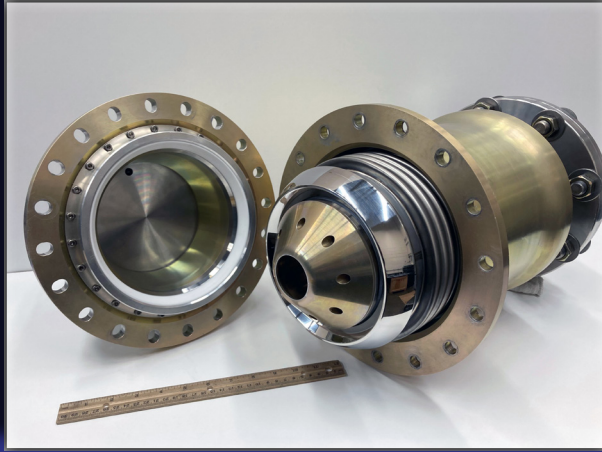
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[www.valcor.com](http://www.valcor.com)

# Large Quick Disconnects: 6" and 8"

High Pressure Quick Disconnect Couplings



Valcor Engineering Corporation



## DESCRIPTION

Valcor's Quick Disconnect couplings are designed for demanding aerospace applications where the ability to quickly disconnect and reconnect system control lines is critical. They are well-suited for the extreme vibration, temperature, and high pressure requirements found in the most severe launch vehicle and spacecraft operating conditions. The couplings are designed to minimize in-service flow restrictions and liquid loss during the decoupling process. Once decoupled, the dual shutoff couplings seal off both lines to prevent system depressurization and loss of media. Valcor QDs are engineered to order based on customer specifications.

## APPLICATION

The QDs are typically used on lines for fuel, hydraulic fluid, rocket propellant and pressurization gases and liquids, that require the temporary separation of process lines.

## FEATURES

- LO<sub>2</sub>, LCH<sub>4</sub>, LH<sub>2</sub>
- Inlet/Outlet Diameters: 6", 8"
- Body Materials: Aluminum, CRES, PTFE, Vespel
- Wetted Materials: CRES, Titanium
- Temperature Range: -320°F to 188°F
- Flow Coefficient (Cv): 6"=340 min., 8"=740 min.
- Operating Pressure: up to 214 psid

Custom designs are our specialty. Contact us today to see how we can help on your next project.

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