

CAM & GROOVE GENERAL INFORMATION

Cam and groove couplings, often referred to as camlock couplings, are quick-connect fittings commonly used to connect and disconnect hoses or pipes in industrial and commercial settings. They are designed for ease of use, reliability, and speed without requiring additional tools.

WHAT THEY ARE & HOW THEY WORK

COMPONENTS

- **Cam Coupler (Female Part):** This part has levers (cams) on the sides. These are Type B, C, and D Couplers
- **Groove Adapter (Male Part):** This part has a grooved ring that fits into the cam coupler. These are Type A, E, and F Adapters.



OPERATION

- **Align the Coupling:** Insert the male adapter into the female coupler, ensuring the grooved ring aligns with the cams.
- **Engage the Levers:** Push the levers on the female coupler down. As the levers are pushed, the cams rotate and lock into the groove of the male adapter.
- **Seal the Connection:** A gasket inside the female coupler compresses against the male adapter to create a tight, leak-proof seal.
- **Disconnect:** To disconnect, simply lift the levers on the female coupler. This releases the male adapter, breaking the seal and allowing for disconnection.

RUBBERWORX SPECIFICATIONS

COMPLIANCE WITH STANDARDS


- Manufactured according to specifications A-A-59326D (which supersedes MIL-C-27487).
- 1/2-inch, 5-inch, and 8-inch fittings are not standardized therefore compatibility between manufacturers couplings should be validated.
- Designed for use with liquids.
- Dust caps and dust plugs are not to be used in pressure applications for safety and environmental reasons.
- **DO NOT USE Rubberworx Cam and Groove Couplings in Compressed Air or Steam Service Applications!**

PRESSURE RATINGS

Recommended pressure ratings for Rubberworx Cam and Groove Couplings are at ambient temperature of 70°F (21°C) with our standard nitrile rubber gasket installed. Maximum working pressures for Cam & Groove Couplings are:

Size	1/2"	3/4" thru 2"	2 - 1/2"	3"	4"	5" & 6"	8"
PSI	150	250	150	125	100	75	50
PSI (working pressure using Rubberworx interlocking stem and ferrule)	150	250	150	150	150	75	50

For the complete line of Rubberworx Cam and Groove couplings contact Rubberworx or authorized representative.

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