



Recommended Operating Conditions

PT Coupling Company does not recommend cam and groove fittings for any compressed gas service, which includes air and steam service.

| Material | Gasket | Size | Max. Allowable Working Pressure (PSI)* |
|----------------------------|--|--|--|
| Metal Couplings | Standard gaskets are Buna any variation must be specified** | 1/2", 3/4 x 1/2", 3/4", 1", 1 1/4", 1 1/2", 2" | 250 |
| | | 2 1/2" 3" | 200 |
| | | 4" | 150 |
| | | 5", 6" | 75 |
| | | 8", 10", 12" | 50 |
| Non-Metal Couplings | Standard gaskets are Buna any variation must be specified ** | 3/4", 1", 1 1/4", 1 1/2", 2" | 100 |
| | | 3", 4" | 50 |

*Note: Above maximum allowable working pressures are based on operating temperatures less than 100°F. If operating temperatures exceed 100°F, use temperature derating factor from table below.

Locate the correct factor from the table below and multiply this by the appropriate MAWP (psi) above for the elevated temperature working pressure.

Example: 2" Alum. at 250°F = 250 psi x .84 = 210 psi at elevated temperature.

| Temperature Derating Factors | | | | | | | | | | |
|------------------------------|---------------|---------------|---------------|--------------|--------------|---------------|---------------|---------------|-------------|--------------|
| Temp (deg F) | Alum. | Brass | Stain. Steel | Ductile Iron | Carbon Steel | Hast. C® | Carp 20® | Monel® | Poly | Nylon |
| *Min. | -150 F | -150 F | -150 F | -20 F | -20 F | -150 F | -150 F | -150 F | -15F | -30 F |
| 100 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 150 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.80 | 0.90 |
| 200 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | NR | 0.60 |
| 250 | 0.84 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | NR | NR |
| 300 | NR | 0.97 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | NR | NR |
| 350 | NR | 0.95 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | NR | NR |
| 400 | NR | 0.92 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | NR | NR |
| 450 | NR | 0.90 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | NR | NR |
| *500 | NR | NR | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | NR | NR |

NR = Not Recommended

*These temperatures represent the extremes that can be handled by current gasket materials.

| MATERIALS AVAILABLE FOR SPECIAL USES ARE: | |
|---|--------------------|
| Monel® | Aluminum Anodized |
| Carpenter 20® | Teflon® Lined |
| Hastelloy C®. Hastelloy C22® | Titanium |
| Tantaline | Others Per Request |

These listings are not exclusive—please contact us for parts engineered to fit your needs..

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All PT Quick Connect/Disconnect Couplings in every metal and size through 6" parts are manufactured to interchange with all products produced to Commercial Item Description **A-A-59326C**. All "RFQ's" identified as Government will be quoted with the required components and castings to meet the **A-A-59326C** Commercial Item Description. Couplings **NOT** interchangeable in the industry are sizes 8" through 12". No standards were established by the government for these sizes. Quality is controlled in every phase of manufacture as is required for compliance to **A-A-59326C**. PT Coupling's quality management system is certified and conforms to the requirements of ISO9001.



ACCESSORIES

CAM ARM GUARANTEE: PT Cam arms are guaranteed against breakage. If a cam arm breaks during normal use, just return it to the branch warehouse in your region for replacement.

Gaskets: Standard gaskets are Buna N. Any variation must be specified.

| GASKETS AVAILABLE AND THEIR PROPERTIES | | | | |
|--|-------------------|-------------------|------------------------------|------------------------------|
| Compound | Material Color | Color Code Stripe | Minimum Temperature Range F° | Maximum Temperature Range F° |
| Buna N (std.) | Black | Blue | -65 | 275 |
| Buna N (Fuel Resist.) | Black | Two Blue | -65 | 275 |
| Buna N (Hot Oil) | Black | Two Orange | -65 | 275 |
| Neoprene | Black | White | -65 | 275 |
| Viton® | Green | N/A | -40 | 400 |
| Viton® | Black | Green | -40 | 400 |
| Thiokol® | Black | Yellow & Green | -65 | 225 |
| Natural Rubber | Tan | N/A | -65 | 250 |
| White Nitrile (Food) | White | N/A | -65 | 275 |
| Silicone | Rust | N/A | -150 | 500 |
| Hypalon® | Black | White & Red | -65 | 250 |
| EPDM | Black | Yellow | -65 | 300 |
| EPDM (Fire Hose) | Black | Red or Yellow | -65 | 300 |
| Teflon® Enveloped | White Translucent | N/A | | |
| Neoprene Filler | Black | White | -65 | 275 |
| Buna Filler | Black | Blue | -65 | 275 |
| Viton® Filler | Black | Green | -40 | 400 |
| EPDM Filler | Black | Yellow | -65 | 300 |
| Teflon® Encapsulation | Transparent | N/A | | |
| Silicon Filler | Rust | N/A | -75 | 450 |
| Viton® Filler | Black | N/A | -40 | 400 |

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WARRANTY

PT COUPLING COMPANY WARRANTS ITS PRODUCTS TO BE FREE OF DEFECTS IN MATERIAL AND WORKMANSHIP, AND IN ACCORDANCE WITH THE SPECIFICATIONS LISTED. IT IS THE BUYER'S RESPONSIBILITY TO PERFORM TESTING BEFORE SELECTION OF PRODUCT. ABUSE OR MISAPPLICATION VOIDS THIS WARRANTY.

ANY CATALOG, BROCHURE OR WEBSITE PUBLISHED BY PT COUPLING COMPANY SHOULD ONLY BE CONSIDERED AS AN OFFER TO SELL PRODUCT. IN ADDITION SUCH PUBLISHED MATERIALS ARE NOT IN AND OF THEMSELVES INTENDED TO BE A TECHNICAL MANUAL. DUE TO THE VARIETY OF OPERATING CONDITIONS AND PROCESS APPLICATIONS IT IS THE RESPONSIBILITY OF THE END USER, THROUGH ITS EXPERTISE, TO SELECT THE APPROPRIATE PT COUPLING PRODUCTS AND TO ENSURE ALL PERFORMANCE, SAFETY AND WARNING REQUIREMENTS ARE MET AS DEMANDED PER THE SPECIFIC APPLICATION.