

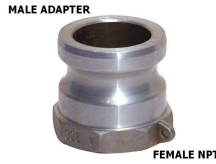


BUCHANAN RUBBER LTD.

CAM AND GROOVE REFERENCE GUIDE

PART A

| Cam and Groove Pressure Chart By Material |          |        |         |       |       |      |
|---|----------|--------|---------|-------|-------|------|
| Size                                      | Aluminum | SS 316 | Ductile | Brass | Nylon | Poly |
| 1/2"                                      | 250      | 250    | 250     | 250   | 175   | 125  |
| 3/4"                                      | 250      | 250    | 250     | 250   | 175   | 125  |
| 1"  | 250      | 250    | 250     | 250   | 175   | 125  |
| 1-1/4"                                    | 250      | 250    | 250     | 250   | 150   | 125  |
| 1-1/2"                                    | 250      | 250    | 250     | 250   | 150   | 125  |
| 2"  | 250      | 250    | 250     | 250   | 150   | 125  |
| 2-1/2"                                    | 150      | 200    | 100     | 150   |       | 125  |
| 3"  | 125      | 200    | 100     | 125   | 100   |      |
| 4"  | 100      | 100    | 100     | 100   | 50    | 100  |
| 5"  | 75       | 75     |         | 75    |       |      |
| 6"  | 75       | 75     |         | 75    |       |      |
| 8"  | 50       |        |         |       |       |      |
| 10"                                       | 50       |        |         |       |       |      |

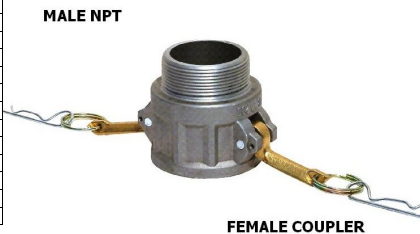


| Material      | Temperature Range              |
|---------------|--------------------------------|
| Aluminum      | -101C to +121C(-150F to +250F) |
| SS 316        | -101C to +260C(-150F to +500F) |
| Ductile       | -29C to +260C(-20F to +500F)   |
| Brass         | -101C to +232C(-150F to +450F) |
| Polypropylene | -26C to +66C(-15F to +150F)    |
| Nylon         | -34C to +121C(-30F to +250F)   |

All sizes except 5" and 8" are made to comply with MIL Specification A-A-59326. These sizes comply with ASTM Specifications 1/2" x 1/2" are not specified under MIL Specification.

PART B

| Cam and Groove Pressure Chart By Material |          |        |         |       |       |      |
|---|----------|--------|---------|-------|-------|------|
| Size                                      | Aluminum | SS 316 | Ductile | Brass | Nylon | Poly |
| 1/2"                                      | 250      | 250    | 250     | 250   | 175   | 125  |
| 3/4"                                      | 250      | 250    | 250     | 250   | 175   | 125  |
| 1"  | 250      | 250    | 250     | 250   | 175   | 125  |
| 1-1/4"                                    | 250      | 250    | 250     | 250   | 150   | 125  |
| 1-1/2"                                    | 250      | 250    | 250     | 250   | 150   | 125  |
| 2"  | 250      | 250    | 250     | 250   | 150   | 125  |
| 2-1/2"                                    | 150      | 200    | 100     | 150   |       | 125  |
| 3"  | 125      | 200    | 100     | 125   | 100   |      |
| 4"  | 100      | 100    | 100     | 100   | 50    | 100  |
| 5"  | 75       | 75     |         | 75    |       |      |
| 6"  | 75       | 75     |         | 75    |       |      |
| 8"  | 50       |        |         |       |       |      |
| 10"                                       | 50       |        |         |       |       |      |



| Material      | Temperature Range              |
|---------------|--------------------------------|
| Aluminum      | -101C to +121C(-150F to +250F) |
| SS 316        | -101C to +260C(-150F to +500F) |
| Ductile       | -29C to +260C(-20F to +500F)   |
| Brass         | -101C to +232C(-150F to +450F) |
| Polypropylene | -26C to +66C(-15F to +150F)    |
| Nylon         | -34C to +121C(-30F to +250F)   |

| Gasket                     |                              |
|----------------------------|------------------------------|
| Nitrile (Standard For All) | -40C to +100C(-40F to +212F) |
| EPDM (Nylon and PP)        | -51C to +100C(-60F to +212F) |
| Viton (Optional)           | -17C to +248C(+1F to +480F)  |

| Hardware                  |                          |
|---------------------------|--------------------------|
| Pins and Rings (Aluminum) | Zinc Plated Carbon Steel |
| Safety Clips (Aluminum)   | Carbon Steel             |
| Pins and Rings (Others)   | Stainless                |
| Safety Clip (Others)      | Stainless                |

| Handles            |                    |
|--------------------|--------------------|
| Aluminum and Brass | Forged Brass       |
| Others             | Investment Cast SS |

All sizes except 5" and 8" are made to comply with MIL Specification A-A-59326. These sizes comply with ASTM Specifications 1/2" x 1/2" are not specified under MIL Specification.

PART C

| Cam and Groove Pressure Chart By Material |          |        |         |       |       |      |
|---|----------|--------|---------|-------|-------|------|
| Size                                      | Aluminum | SS 316 | Ductile | Brass | Nylon | Poly |
| 1/2"                                      | 250      | 250    | 250     | 250   | 175   | 125  |
| 3/4"                                      | 250      | 250    | 250     | 250   | 175   | 125  |
| 1"  | 250      | 250    | 250     | 250   | 175   | 125  |
| 1-1/4"                                    | 250      | 250    | 250     | 250   | 150   | 125  |
| 1-1/2"                                    | 250      | 250    | 250     | 250   | 150   | 125  |
| 2"  | 250      | 250    | 250     | 250   | 150   | 125  |
| 2-1/2"                                    | 150      | 200    | 100     | 150   |       | 125  |
| 3"  | 125      | 200    | 100     | 125   | 100   |      |
| 4"  | 100      | 100    | 100     | 100   | 50    | 100  |
| 5"  | 75       | 75     |         | 75    |       |      |
| 6"  | 75       | 75     |         | 75    |       |      |
| 8"  | 50       |        |         |       |       |      |
| 10"                                       | 50       |        |         |       |       |      |



| Material      | Temperature Range              |
|---------------|--------------------------------|
| Aluminum      | -101C to +121C(-150F to +250F) |
| SS 316        | -101C to +260C(-150F to +500F) |
| Ductile       | -29C to +260C(-20F to +500F)   |
| Brass         | -101C to +232C(-150F to +450F) |
| Polypropylene | -26C to +66C(-15F to +150F)    |
| Nylon         | -34C to +121C(-30F to +250F)   |

| Gasket                     |                              |
|----------------------------|------------------------------|
| Nitrile (Standard For All) | -40C to +100C(-40F to +212F) |
| EPDM (Nylon and PP)        | -51C to +100C(-60F to +212F) |
| Viton (Optional)           | -17C to +248C(+1F to +480F)  |

| Hardware                  |                          |
|---------------------------|--------------------------|
| Pins and Rings (Aluminum) | Zinc Plated Carbon Steel |
| Safety Clips (Aluminum)   | Carbon Steel             |
| Pins and Rings (Others)   | Stainless                |
| Safety Clip (Others)      | Stainless                |

| Handles            |                    |
|--------------------|--------------------|
| Aluminum and Brass | Forged Brass       |
| Others             | Investment Cast SS |

All sizes except 5" and 8" are made to comply with MIL Specification A-A-59326. These sizes comply with ASTM Specifications 1/2" x 1/2" are not specified under MIL Specification.

PART D

| Cam and Groove Pressure Chart By Material |          |        |         |       |       |      |
|---|----------|--------|---------|-------|-------|------|
| Size                                      | Aluminum | SS 316 | Ductile | Brass | Nylon | Poly |
| 1/2"                                      | 250      | 250    | 250     | 250   | 175   | 125  |
| 3/4"                                      | 250      | 250    | 250     | 250   | 175   | 125  |
| 1"  | 250      | 250    | 250     | 250   | 175   | 125  |
| 1-1/4"                                    | 250      | 250    | 250     | 250   | 150   | 125  |
| 1-1/2"                                    | 250      | 250    | 250     | 250   | 150   | 125  |
| 2"  | 250      | 250    | 250     | 250   | 150   | 125  |
| 2-1/2"                                    | 150      | 200    | 100     | 150   |       | 125  |
| 3"  | 125      | 200    | 100     | 125   | 100   |      |
| 4"  | 100      | 100    | 100     | 100   | 50    | 100  |
| 5"  | 75       | 75     |         | 75    |       |      |
| 6"  | 75       | 75     |         | 75    |       |      |
| 8"  | 50       |        |         |       |       |      |
| 10"                                       | 50       |        |         |       |       |      |



| Material      | Temperature Range              |
|---------------|--------------------------------|
| Aluminum      | -101C to +121C(-150F to +250F) |
| SS 316        | -101C to +260C(-150F to +500F) |
| Ductile       | -29C to +260C(-20F to +500F)   |
| Brass         | -101C to +232C(-150F to +450F) |
| Polypropylene | -26C to +66C(-15F to +150F)    |
| Nylon         | -34C to +121C(-30F to +250F)   |

| Gasket                     |                              |
|----------------------------|------------------------------|
| Nitrile (Standard For All) | -40C to +100C(-40F to +212F) |
| EPDM (Nylon and PP)        | -51C to +100C(-60F to +212F) |
| Viton (Optional)           | -17C to +248C(+1F to +480F)  |

| Hardware                  |                          |
|---------------------------|--------------------------|
| Pins and Rings (Aluminum) | Zinc Plated Carbon Steel |
| Safety Clips (Aluminum)   | Carbon Steel             |
| Pins and Rings (Others)   | Stainless                |
| Safety Clip (Others)      | Stainless                |

| Handles            |                    |
|--------------------|--------------------|
| Aluminum and Brass | Forged Brass       |
| Others             | Investment Cast SS |

All sizes except 5" and 8" are made to comply with MIL Specification A-A-59326. These sizes comply with ASTM Specifications 1/2" x 1/2" are not specified under MIL Specification.

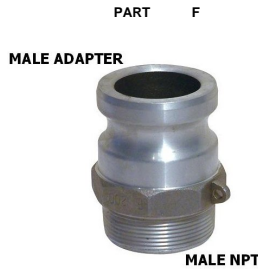
| Cam and Groove Pressure Chart By Material |          |        |         |       |       |      |
|---|----------|--------|---------|-------|-------|------|
| Size                                      | Aluminum | SS 316 | Ductile | Brass | Nylon | Poly |
| 1/2"                                      | 250      | 250    | 250     | 250   | 175   | 125  |
| 3/4"                                      | 250      | 250    | 250     | 250   | 175   | 125  |
| 1"  | 250      | 250    | 250     | 250   | 175   | 125  |
| 1-1/4"                                    | 250      | 250    | 250     | 250   | 150   | 125  |
| 1-1/2"                                    | 250      | 250    | 250     | 250   | 150   | 125  |
| 2"  | 250      | 250    | 250     | 250   | 150   | 125  |
| 2-1/2"                                    | 150      | 200    | 100     | 150   |       | 125  |
| 3"  | 125      | 200    | 100     | 125   | 100   |      |
| 4"  | 100      | 100    | 100     | 100   | 50    | 100  |
| 5"  | 75       | 75     |         | 75    |       |      |
| 6"  | 75       | 75     |         | 75    |       |      |
| 8"  | 50       |        |         |       |       |      |
| 10"                                       | 50       |        |         |       |       |      |



| Material      | Temperature Range              |
|---------------|--------------------------------|
| Aluminum      | -101C to +121C(-150F to +250F) |
| SS 316        | -101C to +260C(-150F to +500F) |
| Ductile       | -29C to +260C(-20F to +500F)   |
| Brass         | -101C to +232C(-150F to +450F) |
| Polypropylene | -26C to +66C(-15F to +150F)    |
| Nylon         | -34C to +121C(-30F to +250F)   |

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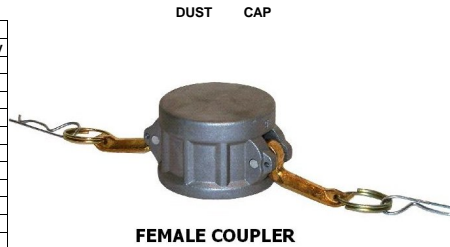
| Cam and Groove Pressure Chart By Material |          |        |         |       |       |      |
|---|----------|--------|---------|-------|-------|------|
| Size                                      | Aluminum | SS 316 | Ductile | Brass | Nylon | Poly |
| 1/2"                                      | 250      | 250    | 250     | 250   | 175   | 125  |
| 3/4"                                      | 250      | 250    | 250     | 250   | 175   | 125  |
| 1"  | 250      | 250    | 250     | 250   | 175   | 125  |
| 1-1/4"                                    | 250      | 250    | 250     | 250   | 150   | 125  |
| 1-1/2"                                    | 250      | 250    | 250     | 250   | 150   | 125  |
| 2"  | 250      | 250    | 250     | 250   | 150   | 125  |
| 2-1/2"                                    | 150      | 200    | 100     | 150   |       | 125  |
| 3"  | 125      | 200    | 100     | 125   | 100   |      |
| 4"  | 100      | 100    | 100     | 100   | 50    | 100  |
| 5"  | 75       | 75     |         | 75    |       |      |
| 6"  | 75       | 75     |         | 75    |       |      |
| 8"  | 50       |        |         |       |       |      |
| 10"                                       | 50       |        |         |       |       |      |



| Material      | Temperature Range              |
|---------------|--------------------------------|
| Aluminum      | -101C to +121C(-150F to +250F) |
| SS 316        | -101C to +260C(-150F to +500F) |
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| Brass         | -101C to +232C(-150F to +450F) |
| Polypropylene | -26C to +66C(-15F to +150F)    |
| Nylon         | -34C to +121C(-30F to +250F)   |

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| Cam and Groove Pressure Chart By Material |          |        |         |       |       |      |
|---|----------|--------|---------|-------|-------|------|
| Size                                      | Aluminum | SS 316 | Ductile | Brass | Nylon | Poly |
| 1/2"                                      | 250      | 250    | 250     | 250   | 175   | 125  |
| 3/4"                                      | 250      | 250    | 250     | 250   | 175   | 125  |
| 1"  | 250      | 250    | 250     | 250   | 175   | 125  |
| 1-1/4"                                    | 250      | 250    | 250     | 250   | 150   | 125  |
| 1-1/2"                                    | 250      | 250    | 250     | 250   | 150   | 125  |
| 2"  | 250      | 250    | 250     | 250   | 150   | 125  |
| 2-1/2"                                    | 150      | 200    | 100     | 150   |       | 125  |
| 3"  | 125      | 200    | 100     | 125   | 100   |      |
| 4"  | 100      | 100    | 100     | 100   | 50    | 100  |
| 5"  | 75       | 75     |         | 75    |       |      |
| 6"  | 75       | 75     |         | 75    |       |      |
| 8"  | 50       |        |         |       |       |      |
| 10"                                       | 50       |        |         |       |       |      |



| Material      | Temperature Range              |
|---------------|--------------------------------|
| Aluminum      | -101C to +121C(-150F to +250F) |
| SS 316        | -101C to +260C(-150F to +500F) |
| Ductile       | -29C to +260C(-20F to +500F)   |
| Brass         | -101C to +232C(-150F to +450F) |
| Polypropylene | -26C to +66C(-15F to +150F)    |
| Nylon         | -34C to +121C(-30F to +250F)   |

| Gasket                     |                              |
|----------------------------|------------------------------|
| Nitrile (Standard For All) | -40C to +100C(-40F to +212F) |
| EPDM (Nylon and PP)        | -51C to +100C(-60F to +212F) |
| Viton (Optional)           | -17C to +248C(+1F to +480F)  |

| Hardware                  |                          |
|---------------------------|--------------------------|
| Pins and Rings (Aluminum) | Zinc Plated Carbon Steel |
| Safety Clips (Aluminum)   | Carbon Steel             |
| Pins and Rings (Others)   | Stainless                |
| Safety Clip (Others)      | Stainless                |

| Handles            |                    |
|--------------------|--------------------|
| Aluminum and Brass | Forged Brass       |
| Others             | Investment Cast SS |

All sizes except 5" and 8" are made to comply with MIL Specification A-A-59326. These sizes comply with ASTM Specifications 1/2" x 1/2" are not specified under MIL Specification.

| Cam and Groove Pressure Chart By Material |          |        |         |       |       |      |
|---|----------|--------|---------|-------|-------|------|
| Size                                      | Aluminum | SS 316 | Ductile | Brass | Nylon | Poly |
| 1/2"                                      | 250      | 250    | 250     | 250   | 175   | 125  |
| 3/4"                                      | 250      | 250    | 250     | 250   | 175   | 125  |
| 1"  | 250      | 250    | 250     | 250   | 175   | 125  |
| 1-1/4"                                    | 250      | 250    | 250     | 250   | 150   | 125  |
| 1-1/2"                                    | 250      | 250    | 250     | 250   | 150   | 125  |
| 2"  | 250      | 250    | 250     | 250   | 150   | 125  |
| 2-1/2"                                    | 150      | 200    | 100     | 150   |       | 125  |
| 3"  | 125      | 200    | 100     | 125   | 100   |      |
| 4"  | 100      | 100    | 100     | 100   | 50    | 100  |
| 5"  | 75       | 75     |         | 75    |       |      |
| 6"  | 75       | 75     |         | 75    |       |      |
| 8"  | 50       |        |         |       |       |      |
| 10"                                       | 50       |        |         |       |       |      |



| Material      | Temperature Range              |
|---------------|--------------------------------|
| Aluminum      | -101C to +121C(-150F to +250F) |
| SS 316        | -101C to +260C(-150F to +500F) |
| Ductile       | -29C to +260C(-20F to +500F)   |
| Brass         | -101C to +232C(-150F to +450F) |
| Polypropylene | -26C to +66C(-15F to +150F)    |
| Nylon         | -34C to +121C(-30F to +250F)   |

All sizes except 5" and 8" are made to comply with MIL Specification A-A-59326. These sizes comply with ASTM Specifications 1/2" x 1/2" are not specified under MIL Specification.

Buchanan Rubber has been in business since 1986. At the time of our inception, most Industrial Hose and Coupling distributors relied on large corporations with high prices, small inventories and long lead times. Our approach to the market was to give these distributors an alternative source of supply. Buchanan Rubber's approach was to concentrate on these three business metrics and offer distributors what they could not consistently receive elsewhere in the market. This approach combined with the practice of staffing our company with Industry professionals has served our customers well over the years.

Today, we continue to successfully optimize this model and consistently offer high quality products at extremely competitive prices, shipped from Canada's largest inventory - THE SAME DAY.

***MISSION: TO BE THE PREMIER CANADIAN SUPPLIER OF INDUSTRIAL HOSE,  
COUPLINGS AND SHEET RUBBER, BY PROVIDING QUALITY PRODUCTS,  
COMPETITIVE PRICES, AND OUTSTANDING SERVICE.***



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