

# GROOVED SHORT RADIUS ELBOWS & TEES

## Models 202, 302



ARGCO short radius fittings, while primarily designed for fire protection applications, can also be used for general service requirements



### Available Sizes

- 2" through 10"

### Pipe Material

- Carbon steel, Schedule 10, Schedule 40.  
For use with alternative materials and wall thicknesses please contact ARGCO.

### Maximum Working Pressure

- Up to 300 psi/20 bar

### Function

- Joins carbon steel pipe.
- Provides a rigid pipe joint designed to restrict axial or angular movement.

### CERTIFICATIONS/LISTINGS

Underwriters Laboratories, Underwriters Laboratories Canada, Factory Mutual.

### SPECIFICATIONS - MATERIAL

**Housing Sections:** Ductile Iron conforming to ASTM A 536, Grade 65-45-12.

### Housing Coating:

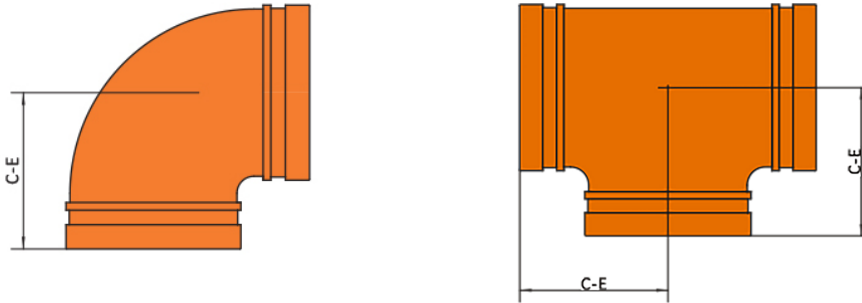
Standard: Orange Enamel

Available: Hot Dipped Galvanized

|              |  |          |  |              |  |           |  |
|--------------|--|----------|--|--------------|--|-----------|--|
| System No.   |  | Location |  | Spec Section |  | Paragraph |  |
| Submitted By |  | Date     |  | Approved     |  | Date      |  |

# GROOVED SHORT RADIUS ELBOWS & TEES

## Models 202, 302



| Nominal Size<br>in/mm | Pipe O.D.<br>in/mm | Max Working Pressure<br>psi/Bar | Model 301<br>90° Elbow<br>Short |                     | Model 302<br>Tee Short |                     |
|-----------------------|--------------------|---------------------------------|---------------------------------|---------------------|------------------------|---------------------|
|                       |                    |                                 | Item #                          | C-E<br>inches<br>mm | Item #                 | C-E<br>inches<br>mm |
| 2"                    | 2.375              | 300                             | 7010032                         | 2.76                | 7010085                | 2.76                |
| 50                    | 60.3               | 20                              |                                 | 70                  |                        | 70                  |
| 2-1/2"                | 2.875              | 300                             | 7010033                         | 2.99                | 7010086                | 2.99                |
| 65                    | 73                 | 20                              |                                 | 76                  |                        | 76                  |
| 3"                    | 3.5                | 300                             | 7010034                         | 3.35                | 7010087                | 3.35                |
| 80                    | 88.9               | 20                              |                                 | 85                  |                        | 85                  |
| 4"                    | 4.25               | 300                             | 7010035                         | 4.02                | 7010088                | 4.02                |
| 100                   | 108                | 20                              |                                 | 102                 |                        | 102                 |
| 5"                    | 5.25               | 300                             | 7010036                         | 4.76                | 7010089                | 4.76                |
| 125                   | 133                | 20                              |                                 | 121                 |                        | 121                 |
| 6"                    | 6.25               | 300                             | 7010037                         | 5.12                | 7010090                | 5.12                |
| 150                   | 159                | 20                              |                                 | 130                 |                        | 130                 |
| 8"                    | 8.625              | 300                             | 7010038                         | 6.89                | 7010091                | 6.89                |
| 200                   | 219.1              | 20                              |                                 | 175                 |                        | 175                 |
| 10"                   | 10.75              | 300                             | 7010039                         | 8.46                | 7010091A               | 8.46                |
| 250                   | 273                | 20                              |                                 | 215                 |                        | 215                 |

- Working Pressure and End Load are total, from all internal and external loads, based on standard weight (ANSI) steel pipe, standard roll or cut grooved in accordance with ARGCO specifications.

### User Responsibility for Product Selection and Suitability

Each user bears final responsibility for making a determination as to the suitability of ARGCO products for a particular end-use application, in accordance with industry standards and project specifications, and the applicable building codes and related regulations as well as ARGCO performance, maintenance, safety, and warning instructions. Nothing in this or any other document, nor any verbal recommendation, advice, or opinion from any ARGCO employee, shall be deemed to alter, vary, supersede, or waive any provision of Allied Rubber and Gasket Company's standard conditions of sale, installation guide, or this disclaimer.

### Note

All products to be installed in accordance with current ARGCO installation/assembly instructions. ARGCO reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.

### Installation

Reference should always be made to the ARGCO installation instructions of the product you are installing.

### Warranty

Refer to the Warranty section of the current Price List or contact ARGCO for details.



### VIZA.EX26460 Fittings, Grooved and Plain End

Page Bottom

### Fittings, Grooved and Plain End

See General Information for Details, Grooved and Plain End

ALLIED RUBBER & GASKET CO INC, DBA ABGCO

EX26460

5400 S 46th St

Fort Smith, AR 72309 USA

The following fittings are intended for use with Allied Rubber & Gasket Co Inc, DBA ABGCO (EX26459) Listed rubber gasketed fittings.

Grooved and

| Model | Nom Pipe Size  | Groove Type | Pipe Schedule | Working Pressure, kPa |
|-------|--|-------------|---------------|-----------------------|
| 201   | 2", 2-1/2", 76.1 mm, 3", 4", 139.7 mm, 5", 165 mm, 6", 8"                                | N/A         | N/A           | 2070                  |
| 201+  | 1", 1-1/4", 1-1/2"   | N/A         | N/A           | 2070                  |
| 202   | 2", 2-1/2", 76.1 mm, 3", 4", 139.7 mm, 5", 165 mm, 6", 8", 10", 12"                      | N/A         | N/A           | 2070                  |
| 203   | 1-1/2 x 1/2, 3/4, 1;<br>2 x 1/2, 3/4, 1  | N/A         | N/A           | 2070                  |
| 204   | 2 x 1, 2-1/2 x 1, 3 x 1, 4 x 1, 5 x 1, 6 x 1   | N/A         | N/A           | 2070                  |
| 205   | 2", 2-1/2", 76.1 mm, 3", 4", 139.7 mm, 5", 165 mm, 6", 8", 10", 12"                      | N/A         | N/A           | 2070                  |
| 205+  | 1", 1-1/4", 1-1/2"   | N/A         | N/A           | 2070                  |
| 206   | 2, 2-1/2, 3 OD (76.1 mm), 3, 4, 5-1/2 OD (139.7 mm), 5, 6-1/2 OD (165.1 mm), 6, 8        | N/A         | N/A           | 2070                  |
| 207   | 2, 2-1/2, 3 OD (76.1 mm), 3, 4, 5-1/2 OD (139.7 mm), 5, 6-1/2 OD (165.1 mm), 6, 8        | N/A         | N/A           | 2070                  |
| 208   | 2, 2-1/2, 3 OD (76.1 mm), 3, 4, 5-1/2 OD (139.7 mm), 5, 6-1/2 OD (165.1 mm), 6, 8        | N/A         | N/A           | 2070                  |
| 301   | 1", 1-1/4", 1-1/2", 2", 2-1/2", 76.1 mm, 3", 4", 139.7 mm, 5", 165 mm, 6", 8"            | N/A         | N/A           | 2070                  |
| 302   | 2", 2-1/2", 76.1 mm, 3", 4", 139.7 mm, 5", 165 mm, 6", 8", 10", 12"                      | N/A         | N/A           | 2070                  |
| 303   | 1-1/2" x 1-1/4", 2" x 1-1/4", 2" x 1-1/2", 2-1/2" x 1-1/4", 2-1/2" x 1-1/2", 2-1/2" x 2" | N/A         | N/A           | 2070                  |

## Pipe Fittings

These fittings are suitable for interconnecting piping, valves and other components in both wet and dry automatic sprinkler systems. Installation should be according to applicable sprinkler system fabrication rules. These rules limit the minimum size of sprinkler piping to 1 in., nominal. FM Approved pipe fittings of smaller sizes are intended for use as valve trim, gauge connections, and for other peripheral service. The water flow path of the sprinkler system cannot be designed using smaller sizes than 1 in., nominal. Unless otherwise noted in the listing, these fittings have 175 psi (1205 kPa) rated working pressure.

Threaded connections on fittings can be made to FM Approved threadable thinwall pipe or to Schedule 40 pipe. Refer to the "Steel Pipe" listings for a summary of the various types of FM Approved steel pipe suitable for threading or grooving."

The fittings manufacturer's installation instructions must be observed in all cases. When connections are made to FM Approved pipe, the pipe manufacturer's installation instructions must also be followed.

Unless otherwise stated below, the maximum ambient temperature to which these fittings should be subjected is 225°F (107°C).

## Pipe Fittings

### Allied Rubber, Pipe Fittings

| <i>Product Designation</i> | <i>Fitting Description</i> | <i>Nominal Pipe Size, in./ mm</i>   | <i>Rated Working Pressure, psi (kPa)</i> | <i>Remarks</i> |
|----------------------------|----------------------------|---|--|----------------|
| 002                        | Short Radius<br>90° Elbow  | 1-1/4, 1-1/2, 2, 2-1/2,<br>3, 4, 5, 6, 8<br>45, 57, 76, 108, 133,<br>140, 159, 165 mm           | 300<br>(2070)                            | -              |
| 002L                       | 90° Elbow                  | 1, 1-1/4, 1-1/2, 2,<br>2-1/2, 3, 4, 5, 6, 8, 10,<br>12<br>76, 108, 133, 140,<br>159, 165 mm     | 300<br>(2070)                            | -              |
| 002D                       | 90° Drain Elbow            | 1-1/2, 2, 2-1/2, 3, 4, 5,<br>6, 8<br>76, 108, 133, 140,<br>159, 165 mm                          | 300<br>(2070)                            | -              |
| 003                        | 45° Elbow                  | 1, 1-1/4, 1-1/2, 2,<br>2-1/2, 3, 4, 5, 6, 8, 10,<br>12<br>57, 76, 108, 133, 140,<br>159, 165 mm | 300<br>(2070)                            | -              |
| 0031                       | 22.5° Elbow                | 1-1/4, 1-1/2, 2, 2-1/2,<br>3, 4, 5, 6, 8<br>45, 57, 76, 108, 133,<br>140, 159, 165 mm           | 300<br>(2070)                            | -              |
| 004                        | Short Radius<br>Equal Tee  | 1-1/4, 1-1/2, 2, 2-1/2,<br>3, 4, 5, 6, 8<br>76, 108, 133, 140,<br>159, 165 mm                   | 300<br>(2070)                            | -              |
| 004L                       | Long Radius<br>Equal Tee   | 1, 1-1/4, 1-1/2, 2,<br>2-1/2, 3, 4, 5, 6, 8, 10,<br>12<br>76, 108, 133, 140,<br>159, 165 mm     | 300<br>(2070)                            | -              |
| 005                        | Cap Grooved                | 1, 1-1/4, 1-1/2, 2,<br>2-1/2, 3, 4, 5, 6<br>57, 76, 108, 133, 140,<br>159, 165 mm               | 300<br>(2070)                            | -              |