

John Guest[®]

Fluid System Products



Celebrating 50 Years of Innovation



Catalog
June 2011



The John Guest Group has a long established reputation as a world leading manufacturer of push-in fittings, tube and other fluid control products. A reputation built on producing consistently high quality products with an ongoing commitment to value engineering and product development.



Quality Manufacture

Both design and manufacture are carried out in John Guest's modern, purpose-built facilities in the United Kingdom.

Maintaining control over the entire process - from initial tool design and tool-making to final assembly and testing - ensures that only products of the highest quality are produced.

It is this commitment to quality that has resulted in the Company receiving prestigious awards from many of the world's leading testing and approvals organizations.

John Guest is a preferred supplier to many international companies.



FLUID SYSTEM PRODUCTS



John Guest's Standard line of Push-In Fittings, Shut-off Valves, and Polyethylene Tubing has been designed for use with a wide range of industrial water treatment applications involving Water Purification, Reverse Osmosis, Ice Makers, Beverage Dispensing, Vending & OCS, R.V. and Marine, Car Washing Systems and many more.

The fittings are simple to use and require no tools to make reliable, leak-free connections.

Standard Push-In Fittings, Shut-Off Valves, and Polyethylene Tubing are produced from FDA compliant materials and are listed with NSF International Standards 51 and 61.

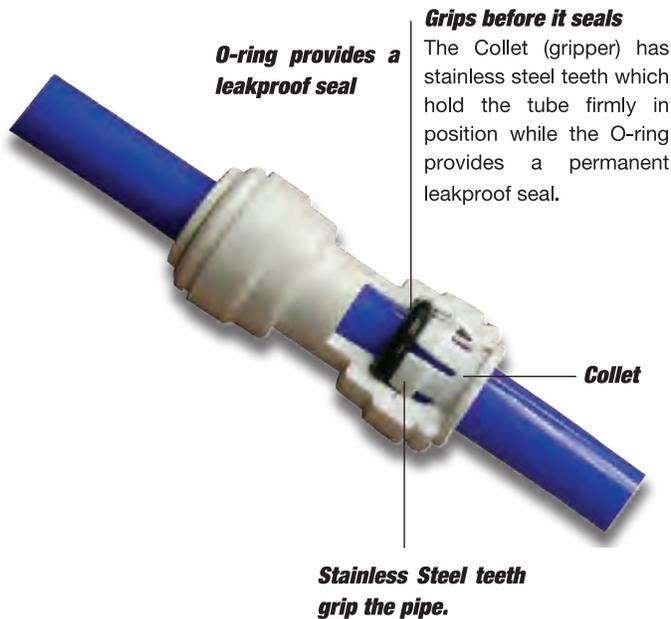
CONTENTS:

| | | | |
|---|---|---|---|
| <p>POLYPROPYLENE FITTINGS p5-6</p> |  | <p>INCH POLYPROPYLENE SHUT-OFF VALVES p19</p> |  |
| <p>ACETAL FITTINGS p7-10</p> |  | <p>ACETAL ANGLE STOP VALVES p19</p> |  |
| <p>WHITE ACETAL FITTINGS p11</p> |  | <p>INCH ACETAL SHUT-OFF VALVES p20</p> |  |
| <p>SUPERSEAL FITTINGS p12</p> |  | <p>SHUT-OFF AND BY-PASS VALVES p20</p> |  |
| <p>BRASS FITTINGS p13</p> |  | <p>LLDPE TUBE p21-22</p> |  |
| <p>METRIC/INCH FITTINGS p13</p> |  | <p>ACCESSORIES p23</p> |  |
| <p>POLYPROPYLENE FITTINGS (METRIC) p14</p> |  | <p>TECHNICAL SPECIFICATIONS p24</p> |  |
| <p>ACETAL FITTINGS (METRIC) p15-17</p> |  | <p>TERMS AND CONDITIONS p25-26</p> |  |
| <p>INCH POLYPROPYLENE ANGLE STOP ADAPTER VALVES p18</p> |  | | |

How to make a Standard Connection

MAKING A GOOD CONNECTION:

To make a connection, the tube is simply pushed in by hand; the unique patented John Guest collet locking system then holds the tube firmly in place without deforming it or restricting flow.



MATERIALS OF CONSTRUCTION

John Guest Fittings are made up of three components:

Bodies are produced in acetal copolymer or polypropylene.

O-rings are produced in Nitrile or EPDM.

Collets are produced in acetal copolymer or polypropylene with stainless steel teeth.

CUT THE TUBE SQUARE



Cut the tube square and remove burrs and sharp edges. Ensure that the outside diameter is free from score marks. For soft or thin-walled plastic tubing we recommend the use of a tube insert.

PUSH UP TO TUBE STOP



Push the tube into the fitting and up to the tube stop.

PULL TO CHECK SECURE



Pull on the tube to check that it is secure. Test the system before use.

TO DISCONNECT Push in collet and remove tube



To disconnect, ensure that the system is depressurized, push the collet square against the fitting. With the collet held in this position the tube can be removed.

Inch Polypropylene Fittings

The PP Range of inch-size push-in fittings is offered for tube sizes 1/4" O.D. to 1/2" O.D. The fittings are manufactured in white polypropylene with food grade EPDM O-rings. They have been developed to satisfy the compatibility needs for a wide range of applications.

The PP Range is NOT suitable for compressed air applications. For these situations we recommend the PI Range on pages 7-10.

Working Pressures and Temperatures

| | | | |
|-------|------|-----------------|-----------------------|
| Water | Max. | 150 psi at 70°F | (Max. 10 Bar at 20°C) |
| | Max. | 60 psi at 140°F | (Max. 4 Bar at 60°C) |
| | Min. | 33°F/1°C | |

Detailed technical information is shown on page 24.

Prices are subject to change without notice.



MALE CONNECTOR NPTF THREAD



| PART NO. | TUBE OD | THREAD NPTF | BOX QTY |
|-----------|---------|-------------|---------|
| PP010821W | 1/4 | - 1/8 | 500 |
| PP010822W | 1/4 | - 1/4 | 400 |
| PP010823W | 1/4 | - 3/8 | 400 |
| PP011222W | 3/8 | - 1/4 | 250 |
| PP011223W | 3/8 | - 3/8 | 250 |
| PP011224W | 3/8 | - 1/2 | 250 |
| PP011623W | 1/2 | - 3/8 | 150 |
| PP011624W | 1/2 | - 1/2 | 150 |

UNION CONNECTOR



| PART NO. | TUBE OD | BOX QTY |
|----------|---------|---------|
| PP0408W | 1/4 | 400 |
| PPM0408W | 5/16 | 300 |
| PP0412W | 3/8 | 200 |
| PP0416W | 1/2 | 100 |

PLUG



| PART NO. | STEM OD | BOX QTY |
|----------|---------|---------|
| PP0808W | 1/4 | 500 |
| PPM0808W | 5/16 | 500 |
| PP0812W | 3/8 | 400 |
| PP0816W | 1/2 | 300 |

UNION TEE



| PART NO. | TUBE OD | BOX QTY |
|--------------------------|---------|---------|
| PP0208W | 1/4 | 300 |
| PPM0208W | 5/16 | 200 |
| PP0212W | 3/8 | 100 |
| PP0216W | 1/2 | 80 |
| Blue Collet PP0208W-B | 1/4 | 300 |

STEM ADAPTER NPTF THREAD



| PART NO. | STEM OD | THREAD NPTF | BOX QTY |
|-----------|---------|-------------|---------|
| PP050821W | 1/4 | x 1/8 | 500 |
| PP050822W | 1/4 | x 1/4 | 500 |
| PP051222W | 3/8 | x 1/4 | 300 |
| PP051223W | 3/8 | x 3/8 | 200 |
| PP051623W | 1/2 | x 3/8 | 250 |
| PP051624W | 1/2 | x 1/2 | 200 |

SWIVEL ELBOW NPTF THREAD



| PART NO. | TUBE OD | THREAD NPTF | BOX QTY |
|-----------|---------|-------------|---------|
| PP090821W | 1/4 | x 1/8 | 300 |
| PP090822W | 1/4 | x 1/4 | 200 |
| PP091222W | 3/8 | x 1/4 | 100 |
| PP091223W | 3/8 | x 3/8 | 100 |

UNION ELBOW



| PART NO. | TUBE OD | BOX QTY |
|--------------------------|---------|---------|
| PP0308W | 1/4 | 400 |
| PPM0308W | 5/16 | 300 |
| PP0312W | 3/8 | 200 |
| PP0316W | 1/2 | 100 |
| Blue Collet PP0308W-B | 1/4 | 400 |

REDUCER



| PART NO. | STEM OD | TUBE OD | BOX QTY |
|-----------|---------|---------|---------|
| PP061208W | 3/8 | - 1/4 | 400 |
| PP061612W | 1/2 | - 3/8 | 200 |
| PP062008W | 5/8 | - 1/4 | 200 |
| PP062012W | 5/8 | - 3/8 | 200 |
| PP062016W | 5/8 | - 1/2 | 150 |

SWIVEL BRANCH TEE CENTER LEG NPTF THREAD



| PART NO. | TUBE OD | THREAD NPTF | BOX QTY |
|-----------|---------|-------------|---------|
| PP100821W | 1/4 | x 1/8 | 200 |
| PP100822W | 1/4 | x 1/4 | 200 |
| PP101222W | 3/8 | x 1/4 | 100 |
| PP101223W | 3/8 | x 3/8 | 100 |

SWIVEL MALE RUN TEE NPTF THREAD



| PART NO. | TUBE OD | THREAD NPTF | BOX QTY |
|-----------|---------|-------------|---------|
| PP110821W | 1/4 x | 1/8 | 200 |
| PP110822W | 1/4 x | 1/4 | 200 |
| PP111222W | 3/8 x | 1/4 | 100 |
| PP111223W | 3/8 x | 3/8 | 100 |

BULKHEAD UNION



| PART NO. | TUBE OD | Mounting Hole Dia. | BOX QTY |
|----------|---------|--------------------|---------|
| PP1208W | 1/4 | 0.67 | 200 |
| PP1212W | 3/8 | 0.83 | 100 |
| PP1216W | 1/2 | 1.06 | 50 |

Polypropylene Bulkhead Unions are not intended for submerged use.

REDUCING BULKHEAD UNION



| PART NO. | TUBE OD | TUBE OD | Mounting Hole Dia. | BOX QTY |
|-----------|---------|---------|--------------------|---------|
| PP121208W | 3/8 | 1/4 | 0.83 | 150 |

REDUCING UNION CONNECTOR



| PART NO. | TUBE OD | TUBE OD | BOX QTY |
|-----------|---------|---------|---------|
| PP201208W | 3/8 | 1/4 | 250 |
| PP201612W | 1/2 | 3/8 | 150 |

REDUCING ELBOW



| PART NO. | TUBE OD | TUBE OD | BOX QTY |
|-----------|---------|---------|---------|
| PP211008W | 5/16 | 1/4 | 300 |
| PP211208W | 3/8 | 1/4 | 200 |
| PP211612W | 1/2 | 3/8 | 150 |

PLUG IN ELBOW



| PART NO. | STEM OD | TUBE OD | BOX QTY |
|-------------|---------|---------|---------|
| PP220808W | 1/4 | 1/4 | 500 |
| PPM220808W | 5/16 | 5/16 | 400 |
| PP221208W | 3/8 | 1/4 | 300 |
| PP221212W | 3/8 | 3/8 | 200 |
| PP221616W | 1/2 | 1/2 | 150 |
| Blue Collet | | | |
| PP221212W-B | 3/8 | 3/8 | 200 |

TWO WAY DIVIDER



| PART NO. | TUBE OD | BOX QTY |
|----------|---------|---------|
| PP2312W | 3/8 | 150 |

TUBE TO HOSE STEM



| PART NO. | STEM OD | HOSE ID | BOX QTY |
|-----------|---------|---------|---------|
| PP251212W | 3/8 | 3/8 | 400 |
| PP251216W | 3/8 | 1/2 | 300 |
| PP251612W | 1/2 | 3/8 | 300 |
| PP251616W | 1/2 | 1/2 | 250 |

REDUCING TEE



| PART NO. | TUBE OD END | TUBE OD END | TUBE OD BRANCH | BOX QTY |
|-------------|-------------|-------------|----------------|---------|
| PP30120812W | 3/8 | 1/4 | 3/8 | 150 |
| PP30121208W | 3/8 | 3/8 | 1/4 | 150 |
| PP301612W | 1/2 | 1/2 | 3/8 | 50 |

FAUCET CONNECTOR UNS THREAD



| PART NO. | TUBE OD | THREAD UNS | BOX QTY |
|-----------|---------|-------------|---------|
| PP3208U7W | 1/4 | x 7/16 - 24 | 400 |
| PP3212U7W | 3/8 | x 7/16 - 24 | 300 |

FEMALE ADAPTER NPTF THREAD



| PART NO. | TUBE OD | THREAD NPTF | BOX QTY |
|-----------|---------|-------------|---------|
| PP450821W | 1/4 | x 1/8 | 400 |
| PP450822W | 1/4 | x 1/4 | 200 |
| PP451222W | 3/8 | x 1/4 | 200 |
| PP451223W | 3/8 | x 3/8 | 150 |

FIXED ELBOW NPTF THREAD



| PART NO. | TUBE OD | THREAD NPTF | BOX QTY |
|-----------|---------|-------------|---------|
| PP480821W | 1/4 | x 1/8 | 500 |
| PP480822W | 1/4 | x 1/4 | 400 |
| PP480823W | 1/4 | x 3/8 | 300 |
| PP481222W | 3/8 | x 1/4 | 200 |
| PP481223W | 3/8 | x 3/8 | 200 |

THREE WAY DIVIDER



| PART NO. | TUBE OD INLET | TUBE OD OUTLET | BOX QTY |
|-----------|---------------|----------------|---------|
| PP491208W | 3/8 | x 1/4 | 150 |

ACCESSORIES FOR PP FITTINGS ARE SHOWN ON PAGE 23.



Inch Acetal Fittings

The PI Range of inch-size push-in fittings is offered for tube sizes 5/32" O.D. to 5/8" O.D. The fittings are manufactured in gray acetal copolymer with food grade nitrile O-ring, making them especially suitable for applications involving foodstuff and potable liquids. They are also suitable for air and inert gases and can therefore be used on CO₂ lines, pneumatic applications and vacuum.

Detailed technical information is shown on page 24.

Prices are subject to change without notice.



MALE CONNECTOR NPTF THREAD



| PART NO. | TUBE OD | THREAD NPTF | BOX QTY |
|-----------|---------|-------------|---------|
| PM010421S | 5/32 | x 1/8 | 500 |
| PM010422S | 5/32 | x 1/4 | 500 |
| PI010621S | 3/16 | x 1/8 | 500 |
| PI010821S | 1/4 | x 1/8 | 500 |
| PI010822S | 1/4 | x 1/4 | 400 |
| PI010823S | 1/4 | x 3/8 | 300 |
| PM010821S | 5/16 | x 1/8 | 400 |
| PM010822S | 5/16 | x 1/4 | 400 |
| PM010823S | 5/16 | x 3/8 | 300 |
| PI011221S | 3/8 | x 1/8 | 250 |
| PI011222S | 3/8 | x 1/4 | 250 |
| PI011223S | 3/8 | x 3/8 | 250 |
| PI011224S | 3/8 | x 1/2 | 200 |
| PI011623S | 1/2 | x 3/8 | 150 |
| PI011624S | 1/2 | x 1/2 | 150 |
| PI012026S | 5/8 | x 3/4 | 100 |

MALE CONNECTOR BSPT THREAD



| PART NO. | TUBE OD | THREAD BSPT | BOX QTY |
|-----------|---------|-------------|---------|
| PM010401S | 5/32 | x 1/8 | 500 |
| PM010402S | 5/32 | x 1/4 | 500 |
| PI010601S | 3/16 | x 1/8 | 500 |
| PI010602S | 3/16 | x 1/4 | 500 |
| PI010801S | 1/4 | x 1/8 | 500 |
| PI010802S | 1/4 | x 1/4 | 400 |
| PM010801S | 5/16 | x 1/8 | 400 |
| PM010802S | 5/16 | x 1/4 | 400 |
| PM010803S | 5/16 | x 3/8 | 300 |
| PI011202S | 3/8 | x 1/4 | 250 |
| PI011203S | 3/8 | x 3/8 | 250 |
| PI011603S | 1/2 | x 3/8 | 150 |
| PI011604S | 1/2 | x 1/2 | 150 |

MALE CONNECTOR BSPP THREAD



| PART NO. | TUBE OD | THREAD BSPP | BOX QTY |
|-----------|---------|-------------|---------|
| PI010812S | 1/4 | x 1/4 | 250 |
| PI011212S | 3/8 | x 1/4 | 250 |

MALE CONNECTOR BSPP THREAD



| PART NO. | TUBE OD | THREAD BSPP | BOX QTY |
|-------------|---------|-------------|---------|
| NCPI011211S | 3/8 | x 1/8 | 200 |
| NCPI011212S | 3/8 | x 1/4 | 250 |

3/8" x 1/4" has special large seal for use with chamfered face ports.

No thread seal on 3/8" x 1/8".

FLARE MALE CONNECTOR MFL THREAD



45° FLARE

| PART NO. | TUBE OD | THREAD MFL | BOX QTY |
|-----------|---------|--------------|---------|
| PI0108F4S | 1/4 | x 1/4 | 300 |
| PM0108F5S | 5/16 | x 5/16 | 500 |
| PI0112F4S | 3/8 | x 1/4 | 250 |
| PI0112F5S | 3/8 | x 5/16 | 250 |
| PI0112F6S | 3/8 | x 3/8 | 300 |
| PI0112F8S | 3/8 | x 1/2 | 200 |
| PI0116F8S | 1/2 | x 1/2 | 200 |
| PM0108C5S | 5/16 | x 1/2 - 16UN | 400 |
| PI0112C5S | 3/8 | x 1/2 - 16UN | 200 |

1/4" (MFL) corresponds to a 7/16-20 UNF
 5/16" (MFL) corresponds to a 1/2-20 UNF
 3/8" (MFL) corresponds to a 5/8-18 UNF
 1/2" (MFL) corresponds to a 3/4-16 UNF

OUTLET ADAPTER BSPP THREAD



| PART NO. | TUBE OD | THREAD BSPP | BOX QTY |
|-----------|---------|-------------|---------|
| NC128/I12 | 3/8 | x 1/4 | 200 |

UNION TEE



| PART NO. | TUBE OD | BOX QTY |
|----------|---------|---------|
| PM0204S | 5/32 | 400 |
| PI0206S | 3/16 | 400 |
| PI0208S | 1/4 | 300 |
| PM0208S | 5/16 | 200 |
| PI0212S | 3/8 | 100 |
| PI0216S | 1/2 | 50 |

UNION ELBOW



| PART NO. | TUBE OD | BOX QTY |
|--------------------------|---------|---------|
| PM0304S | 5/32 | 500 |
| PI0306S | 3/16 | 500 |
| PI0308S | 1/4 | 400 |
| PM0308S | 5/16 | 300 |
| PI0312S | 3/8 | 200 |
| PI0316S | 1/2 | 100 |
| Blue Collet PI0308S-B | 1/4 | 400 |

UNION CONNECTOR



| PART NO. | TUBE OD | BOX QTY |
|----------|---------|---------|
| PM0404S | 5/32 | 500 |
| PI0406S | 3/16 | 500 |
| PI0408S | 1/4 | 400 |
| PM0408S | 5/16 | 300 |
| PI0412S | 3/8 | 200 |
| PI0416S | 1/2 | 100 |

STEM ADAPTER NPTF THREAD



| PART NO. | STEM OD | THREAD NPTF | BOX QTY |
|-----------|---------|-------------|---------|
| PM050421S | 5/32 | x 1/8 | 500 |
| PM050422S | 5/32 | x 1/4 | 500 |
| PI050621S | 3/16 | x 1/8 | 500 |
| PI050821S | 1/4 | x 1/8 | 500 |
| PI050822S | 1/4 | x 1/4 | 500 |
| PI050823S | 1/4 | x 3/8 | 300 |
| PM050821S | 5/16 | x 1/8 | 500 |
| PM050822S | 5/16 | x 1/4 | 500 |
| PM050823S | 5/16 | x 3/8 | 300 |
| PI051222S | 3/8 | x 1/4 | 300 |
| PI051223S | 3/8 | x 3/8 | 300 |
| PI051623S | 1/2 | x 3/8 | 150 |
| PI051624S | 1/2 | x 1/2 | 150 |

STEM ADAPTER BSPT THREAD



| PART NO. | STEM OD | THREAD BSPT | BOX QTY |
|-----------|---------|-------------|---------|
| PI050601S | 3/16 | x 1/8 | 500 |
| PI050801S | 1/4 | x 1/8 | 500 |
| PI050802S | 1/4 | x 1/4 | 500 |
| PM050801S | 5/16 | x 1/8 | 500 |
| PM050802S | 5/16 | x 1/4 | 500 |
| PM050803S | 5/16 | x 3/8 | 300 |
| PI051202S | 3/8 | x 1/4 | 300 |
| PI051203S | 3/8 | x 3/8 | 300 |
| PI051603S | 1/2 | x 3/8 | 200 |
| PI051604S | 1/2 | x 1/2 | 150 |

STEM ADAPTER BSPP THREAD



| PART NO. | STEM OD | THREAD BSPP | BOX QTY |
|-----------|---------|-------------|---------|
| PM050812S | 5/16 | x 1/4 | 500 |
| PI051212S | 3/8 | x 1/4 | 300 |
| PI051213S | 3/8 | x 3/8 | 300 |

REDUCER



| PART NO. | STEM OD | TUBE OD | BOX QTY |
|-----------|---------|---------|---------|
| PI060605S | 3/16 | - 5/32 | 500 |
| PI061006S | 5/16 | - 3/16 | 500 |
| PI061008S | 5/16 | - 1/4 | 500 |
| PI061206S | 3/8 | - 3/16 | 500 |
| PI061208S | 3/8 | - 1/4 | 400 |
| PI061210S | 3/8 | - 5/16 | 400 |
| PI061610S | 1/2 | - 5/16 | 300 |
| PI061612S | 1/2 | - 3/8 | 250 |

PLUG



| PART NO. | STEM OD | BOX QTY |
|----------|---------|---------|
| PM0804S | 5/32 | 1000 |
| PI0806S | 3/16 | 1000 |
| PI0808S | 1/4 | 500 |
| PM0808S | 5/16 | 500 |
| PI0812S | 3/8 | 400 |
| PI0816S | 1/2 | 300 |

SWIVEL ELBOW NPTF THREAD



| PART NO. | TUBE OD | THREAD NPTF | BOX QTY |
|-----------|---------|-------------|---------|
| PM090421S | 5/32 | x 1/8 | 400 |
| PM090422S | 5/32 | x 1/4 | 300 |
| PI090621S | 3/16 | x 1/8 | 400 |
| PI090821S | 1/4 | x 1/8 | 300 |
| PI090822S | 1/4 | x 1/4 | 200 |
| PM090821S | 5/16 | x 1/8 | 300 |
| PM090822S | 5/16 | x 1/4 | 200 |
| PM090823S | 5/16 | x 3/8 | 200 |
| PI091221S | 3/8 | x 1/8 | 200 |
| PI091222S | 3/8 | x 1/4 | 100 |
| PI091223S | 3/8 | x 3/8 | 100 |
| PI091622S | 1/2 | x 1/4 | 100 |
| PI091623S | 1/2 | x 3/8 | 50 |
| PI091624S | 1/2 | x 1/2 | 50 |

SWIVEL ELBOW BSPT THREAD



| PART NO. | TUBE OD | THREAD BSPT | BOX QTY |
|-----------|---------|-------------|---------|
| PI090601S | 3/16 | x 1/8 | 400 |
| PI090801S | 1/4 | x 1/8 | 300 |
| PI090802S | 1/4 | x 1/4 | 200 |
| PM090801S | 5/16 | x 1/8 | 200 |
| PM090802S | 5/16 | x 1/4 | 200 |
| PM090803S | 5/16 | x 3/8 | 200 |
| PI091202S | 3/8 | x 1/4 | 100 |
| PI091203S | 3/8 | x 3/8 | 100 |
| PI091603S | 1/2 | x 3/8 | 50 |
| PI091604S | 1/2 | x 1/2 | 50 |

SWIVEL BRANCH TEE CENTER LEG NPTF THREAD



| PART NO. | TUBE OD | THREAD NPTF | BOX QTY |
|-----------|---------|-------------|---------|
| PM100421S | 5/32 | x 1/8 | 200 |
| PM100422S | 5/32 | x 1/4 | 200 |
| PI100621S | 3/16 | x 1/8 | 200 |
| PI100821S | 1/4 | x 1/8 | 200 |
| PI100822S | 1/4 | x 1/4 | 200 |
| PM100821S | 5/16 | x 1/8 | 100 |
| PM100822S | 5/16 | x 1/4 | 100 |
| PM100823S | 5/16 | x 3/8 | 100 |
| PI101222S | 3/8 | x 1/4 | 100 |
| PI101223S | 3/8 | x 3/8 | 100 |
| PI101623S | 1/2 | x 3/8 | 50 |
| PI101624S | 1/2 | x 1/2 | 50 |

SWIVEL BRANCH TEE CENTER LEG BSPT THREAD



| PART NO. | TUBE OD | THREAD BSPT | BOX QTY |
|-----------|---------|-------------|---------|
| PI100601S | 3/16 | x 1/8 | 200 |
| PI100801S | 1/4 | x 1/8 | 200 |
| PI100802S | 1/4 | x 1/4 | 200 |
| PM100801S | 5/16 | x 1/8 | 100 |
| PM100802S | 5/16 | x 1/4 | 100 |
| PM100803S | 5/16 | x 3/8 | 100 |
| PI101202S | 3/8 | x 1/4 | 100 |
| PI101203S | 3/8 | x 3/8 | 100 |
| PI101603S | 1/2 | x 3/8 | 50 |
| PI101604S | 1/2 | x 1/2 | 50 |

SWIVEL MALE RUN TEE NPTF THREAD



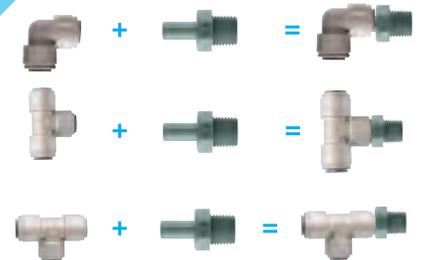
| PART NO. | TUBE OD | THREAD NPTF | BOX QTY |
|-----------|---------|-------------|---------|
| PM110421S | 5/32 | x 1/8 | 400 |
| PM110422S | 5/32 | x 1/4 | 400 |
| PI110621S | 3/16 | x 1/8 | 200 |
| PI110821S | 1/4 | x 1/8 | 200 |
| PI110822S | 1/4 | x 1/4 | 200 |
| PM110821S | 5/16 | x 1/8 | 100 |
| PM110822S | 5/16 | x 1/4 | 100 |
| PM110823S | 5/16 | x 3/8 | 100 |
| PI111222S | 3/8 | x 1/4 | 100 |
| PI111223S | 3/8 | x 3/8 | 100 |
| PI111623S | 1/2 | x 3/8 | 50 |
| PI111624S | 1/2 | x 1/2 | 50 |

SWIVEL MALE RUN TEE BSPT THREAD



| PART NO. | TUBE OD | THREAD BSPT | BOX QTY |
|-----------|---------|-------------|---------|
| PI110601S | 3/16 | x 1/8 | 200 |
| PI110801S | 1/4 | x 1/8 | 200 |
| PI110802S | 1/4 | x 1/4 | 200 |
| PM110801S | 5/16 | x 1/8 | 100 |
| PM110802S | 5/16 | x 1/4 | 100 |
| PM110803S | 5/16 | x 3/8 | 100 |
| PI111202S | 3/8 | x 1/4 | 100 |
| PI111203S | 3/8 | x 3/8 | 100 |
| PI111603S | 1/2 | x 3/8 | 50 |
| PI111604S | 1/2 | x 1/2 | 50 |

John Guest Adaptability
Standard *Super Speedfit* products can be coupled together to form integral new fittings.



BULKHEAD UNION



| PART NO. | TUBE OD | MOUNTING HOLE DIA. (INCH) | BOX QTY |
|----------|---------|---------------------------|---------|
| PM1204S | 5/32 | 0.67 | 200 |
| PI1206S | 3/16 | 0.67 | 200 |
| PI1208S | 1/4 | 0.67 | 200 |
| PM1208S | 5/16 | 0.83 | 100 |
| PI1212S | 3/8 | 0.83 | 100 |
| PI1216S | 1/2 | 1.06 | 50 |

REDUCING BULKHEAD UNION



| PART NO. | TUBE OD | TUBE OD | MOUNTING HOLE DIA. (INCH) | BOX QTY |
|-----------|---------|---------|---------------------------|---------|
| NC392-02 | 1/2 | - 1/4 | 0.83 | 150 |
| PI121208S | 3/8 | - 1/4 | 0.83 | 150 |

ENLARGER



| PART NO. | STEM OD | TUBE OD | BOX QTY |
|-----------|---------|---------|---------|
| PI131012S | 5/16 | - 3/8 | 250 |
| PI131216S | 3/8 | - 1/2 | 200 |

REDUCING UNION CONNECTOR



| PART NO. | TUBE OD | TUBE OD | BOX QTY |
|-----------|---------|---------|---------|
| PI200806S | 1/4 | - 3/16 | 200 |
| PM200804S | 5/16 | - 5/32 | 300 |
| PI201006S | 5/16 | - 3/16 | 200 |
| PI201008S | 5/16 | - 1/4 | 200 |
| PI201206S | 3/8 | - 3/16 | 200 |
| PI201208S | 3/8 | - 1/4 | 200 |
| PI201210S | 3/8 | - 5/16 | 200 |
| PI201610S | 1/2 | - 5/16 | 100 |
| PI201612S | 1/2 | - 3/8 | 100 |

REDUCING ELBOW



| PART NO. | TUBE OD | TUBE OD | BOX QTY |
|-----------|---------|---------|---------|
| PM210804S | 5/16 | - 5/32 | 300 |
| PI211006S | 5/16 | - 3/16 | 200 |
| PI211008S | 5/16 | - 1/4 | 200 |
| PI211206S | 3/8 | - 3/16 | 200 |
| PI211208S | 3/8 | - 1/4 | 200 |
| PI211210S | 3/8 | - 5/16 | 200 |
| PI211610S | 1/2 | - 5/16 | 100 |
| PI211612S | 1/2 | - 3/8 | 100 |

PLUG IN ELBOW



| PART NO. | STEM OD | TUBE OD | BOX QTY |
|-----------|---------|---------|---------|
| PM220404S | 5/32 | - 5/32 | 500 |
| PI220606S | 3/16 | - 3/16 | 500 |
| PI220808S | 1/4 | - 1/4 | 500 |
| PM220808S | 5/16 | - 5/16 | 400 |
| PI221206S | 3/8 | - 3/16 | 300 |
| PI221208S | 3/8 | - 1/4 | 300 |
| PI221210S | 3/8 | - 5/16 | 200 |
| PI221212S | 3/8 | - 3/8 | 200 |
| PI221616S | 1/2 | - 1/2 | 100 |

TWO-WAY DIVIDER



| PART NO. | TUBE OD | BOX QTY |
|----------|---------|---------|
| PI2308S | 1/4 | 150 |
| PM2308S | 5/16 | 100 |
| PI2312S | 3/8 | 100 |
| PI2316S | 1/2 | 100 |

UNEQUAL TWO-WAY DIVIDER



| PART NO. | TUBE OD INLET | TUBE OD OUTLET | BOX QTY |
|-----------|---------------|----------------|---------|
| PI241210S | 3/8 | - 5/16 | 100 |

TUBE TO HOSE STEM



| PART NO. | STEM OD | HOSE ID | BOX QTY |
|-----------|---------|---------|---------|
| PI250806S | 1/4 | - 3/16 | 500 |
| PI250808S | 1/4 | - 1/4 | 500 |
| PI250810S | 1/4 | - 5/16 | 500 |
| PI251006S | 5/16 | - 3/16 | 500 |
| PI251008S | 5/16 | - 1/4 | 500 |
| PM250808S | 5/16 | - 5/16 | 500 |
| PI251012S | 5/16 | - 3/8 | 400 |
| PI251208S | 3/8 | - 1/4 | 400 |
| PI251210S | 3/8 | - 5/16 | 400 |
| PI251212S | 3/8 | - 3/8 | 400 |
| PI251216S | 3/8 | - 1/2 | 300 |
| PI251612S | 1/2 | - 3/8 | 300 |
| PI251616S | 1/2 | - 1/2 | 200 |

TUBE TO HOSE STEM LONG VERSION



| PART NO. | STEM OD | HOSE ID | BOX QTY |
|------------|---------|---------|---------|
| PI251012SL | 5/16 | - 3/8 | 400 |
| PI251212SL | 3/8 | - 3/8 | 400 |

TUBE TO HOSE ELBOW



| PART NO. | STEM OD | HOSE ID | BOX QTY |
|-----------|---------|---------|---------|
| PI290808S | 1/4 | - 1/4 | 500 |
| PI290810S | 1/4 | - 5/16 | 500 |
| PI291008S | 5/16 | - 1/4 | 500 |
| PM290808S | 5/16 | - 5/16 | 500 |
| PI291208S | 3/8 | - 1/4 | 400 |
| PI291210S | 3/8 | - 5/16 | 400 |

REDUCING TEE

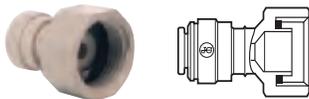


| PART NO. | TUBE OD ENDS | TUBE OD BRANCH | BOX QTY |
|-----------|--------------|----------------|---------|
| PI301208S | 3/8 | - 1/4 | 150 |
| PI301612S | 1/2 | - 3/8 | 50 |

ACCESSORIES FOR PI FITTINGS ARE SHOWN ON PAGE 23.



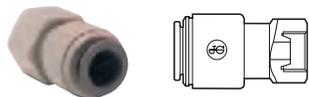
FAUCET CONNECTOR BSPB THREAD



| PART NO. | TUBE OD | THREAD BSPB | BOX QTY |
|-----------|---------|-------------|---------|
| C1320814S | 1/4 | x 1/2 | 150 |
| C1320816S | 1/4 | x 3/4 | 150 |
| C1321214S | 3/8 | x 1/2 | 100 |
| C1321216S | 3/8 | x 3/4 | 100 |

Not suitable for air

FAUCET CONNECTOR UNS THREAD



| PART NO. | TUBE OD | THREAD UNS | BOX QTY |
|-----------|---------|-------------|---------|
| C13208U7S | 1/4 | x 7/16 - 24 | 250 |
| C13210U7S | 5/16 | x 7/16 - 24 | 300 |
| C13212U7S | 3/8 | x 7/16 - 24 | 200 |

Not suitable for air

FEMALE CONNECTOR NPTF THREAD



| PART NO. | TUBE OD | THREAD NPTF | BOX QTY |
|-----------|---------|-------------|---------|
| PI450822S | 1/4 | x 1/4 | 400 |
| PI451222S | 3/8 | x 1/4 | 250 |

FEMALE CONNECTOR UN THREAD



| PART NO. | TUBE OD | THREAD UN | BOX QTY |
|-----------|---------|------------|---------|
| PM4508C5S | 5/16 | x 1/2 - 16 | 300 |
| PI4512C5S | 3/8 | x 1/2 - 16 | 200 |
| PI4516C5S | 1/2 | x 1/2 - 16 | 200 |

FEMALE FLARE CONNECTOR FFL THREAD



45° FLARE

| PART NO. | TUBE OD | THREAD FFL | BOX QTY |
|-----------|---------|------------|---------|
| PM4508F4S | 5/16 | x 1/4 | 300 |
| PI4512F4S | 3/8 | x 1/4 | 250 |
| PI4512F6S | 3/8 | x 3/8 | 200 |

1/4 (FFL) corresponds to a 7/16 - 20 UNF
3/8 (FFL) corresponds to a 5/8 - 18 UNF

FEMALE CONNECTOR BSPB THREAD - CONE END



| PART NO. | TUBE OD | THREAD BSPB | BOX QTY |
|------------|---------|-------------|---------|
| PI451014CS | 5/16 | x 1/2 | 150 |
| PI451015CS | 5/16 | x 5/8 | 150 |
| PI451214CS | 3/8 | x 1/2 | 150 |
| PI451215CS | 3/8 | x 5/8 | 100 |
| PI451614CS | 1/2 | x 1/2 | 150 |
| PI451616CS | 1/2 | x 3/4 | 100 |

FEMALE CONNECTOR BSPB THREAD - FLAT END



| PART NO. | TUBE OD | THREAD BSPB | BOX QTY |
|------------|---------|-------------|---------|
| PI451014FS | 5/16 | x 1/2 | 150 |
| PI451015FS | 5/16 | x 5/8 | 150 |
| PI451213S | 3/8 | x 3/8 | 150 |
| PI451214FS | 3/8 | x 1/2 | 150 |
| PI451215FS | 3/8 | x 5/8 | 150 |
| PI451613S | 1/2 | x 3/8 | 150 |
| PI451615FS | 1/2 | x 5/8 | 150 |

END STOP



| PART NO. | TUBE OD | BOX QTY |
|----------|---------|---------|
| PI4608S | 1/4 | 500 |
| PI4612S | 3/8 | 500 |

CROSS



| PART NO. | TUBE OD | BOX QTY |
|----------|---------|---------|
| PI4712S | 3/8 | 100 |

FIXED ELBOW NPTF THREAD



| PART NO. | TUBE OD | THREAD NPTF | BOX QTY |
|-----------|---------|-------------|---------|
| PI480821S | 1/4 | x 1/8 | 500 |
| PI480822S | 1/4 | x 1/4 | 400 |
| PI480823S | 1/4 | x 3/8 | 300 |
| PI481022S | 5/16 | x 1/4 | 300 |
| PI481023S | 5/16 | x 3/8 | 300 |
| PI481222S | 3/8 | x 1/4 | 200 |
| PI481223S | 3/8 | x 3/8 | 200 |
| PI482024S | 5/8 | x 1/2 | 100 |

THREE WAY DIVIDER



| PART NO. | TUBE OD INLET | TUBE OD OUTLET | BOX QTY |
|-----------|---------------|----------------|---------|
| PI491612S | 1/2 | - 3/8 | 50 |

DISPENSING VALVE ELBOW



| PART NO. | TUBE OD | STEM OD | BOX QTY |
|----------|---------|---------|---------|
| NC356-02 | 3/8 | - 3/8 | 250 |

DISPENSING VALVE STEM



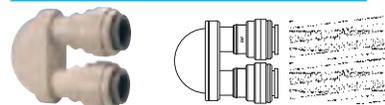
| PART NO. | STEM OD | BOX QTY |
|----------|---------|---------|
| NC730-02 | 3/8 | 500 |

OFFSET CONNECTOR



| PART NO. | TUBE OD | TUBE OD | BOX QTY |
|----------|---------|---------|---------|
| NC641 | 1/2 | - 5/16 | 200 |

U-BEND



| PART NO. | TUBE OD | BOX QTY |
|----------|---------|---------|
| PIUB12S | 3/8 | 100 |
| PIUB16S | 1/2 | 50 |

The U-Bend is offered for 1/2 inch OD tube sizes. Existing 1/2 inch ID lines can be accommodated by using a standard Tube to Hose Stem.

CHECK VALVE



Super Speedfit Single Check Valves allow flow in one direction.

For liquids only

| PART NO. | TUBE OD | BOX QTY |
|----------|---------|---------|
| 1/4SCV | 1/4 | 300 |
| 5/16SCV | 5/16 | 300 |
| 3/8SCV | 3/8 | 80 |



NSF 51
NSF 61

Inch Acetal Fittings (White)

The CI Range of inch-size fittings is offered for tube sizes 1/4" O.D. and 3/8" O.D. The fittings are manufactured in white acetal, with a food grade EPDM O-ring. They have been developed for the water industry but are equally suitable for other potable liquids. They are also recommended for intermittent hot water applications.

Selected items are available with red or blue collets.

The CI Range is NOT suitable for compressed air applications. For these situations we recommend the PI Range on pages 7 - 10.

Working Pressures and Temperatures

| | | |
|-------|-----------------------|-----------------------|
| Water | Max. 150 psi at 70°F | (Max. 10 bar at 20°C) |
| | Max. 100 psi at 150°F | (Max. 7 bar at 65°C) |
| | Min. 33°F/1°C | |

Detailed technical information is shown on page 24.

Prices are subject to change without notice.



MALE CONNECTOR NPTF THREAD



| PART NO. | TUBE OD | THREAD NPTF | BOX QTY |
|-----------|---------|-------------|---------|
| CI010821W | 1/4 | x 1/8 | 500 |
| CI010822W | 1/4 | x 1/4 | 400 |
| CI010823W | 1/4 | x 3/8 | 300 |
| CI011222W | 3/8 | x 1/4 | 250 |

STEM ADAPTER NPTF THREAD



| PART NO. | STEM OD | THREAD NPTF | BOX QTY |
|-----------|---------|-------------|---------|
| CI050821W | 1/4 | x 1/8 | 500 |
| CI050822W | 1/4 | x 1/4 | 500 |
| CI051222W | 3/8 | x 1/4 | 300 |
| CI051223W | 3/8 | x 3/8 | 300 |

PLUG IN ELBOW



| PART NO. | STEM OD | TUBE OD | BOX QTY |
|-----------|---------|---------|---------|
| CI220808W | 1/4 | - 1/4 | 500 |
| CI221208W | 3/8 | - 1/4 | 300 |
| CI221212W | 3/8 | - 3/8 | 200 |

Blue Collet

| | | | |
|------------|-----|-------|-----|
| CI220808WB | 1/4 | - 1/4 | 500 |
| CI221212WB | 3/8 | - 3/8 | 200 |

Red Collet

| | | | |
|------------|-----|-------|-----|
| CI220808WR | 1/4 | - 1/4 | 500 |
| CI221212WR | 3/8 | - 3/8 | 200 |

UNION TEE



| PART NO. | TUBE OD | BOX QTY |
|-------------------------|---------|---------|
| CI0208W | 1/4 | 300 |
| CI0212W | 3/8 | 100 |
| Blue Collet CI0208WB | 1/4 | 300 |

REDUCER



| PART NO. | STEM OD | TUBE OD | BOX QTY |
|-----------|---------|---------|---------|
| CI061208W | 3/8 | - 1/4 | 400 |

BARB CONNECTOR SUPERSEAL X BARB



| PART NO. | SUPERSEAL OD | HOSE ID | BOX QTY |
|-----------|--------------|---------|---------|
| CI270808W | 1/4 | - 1/4 | 300 |

UNION ELBOW



| PART NO. | TUBE OD | BOX QTY |
|-------------------------|---------|---------|
| CI0308W | 1/4 | 400 |
| CI0312W | 3/8 | 200 |
| Blue Collet CI0308WB | 1/4 | 400 |
| CI0312WB | 3/8 | 200 |
| Red Collet CI0312WR | 3/8 | 200 |

BULKHEAD UNION



| PART NO. | TUBE OD | MOUNTING HOLE DIA. (INCH) | BOX QTY |
|----------|---------|---------------------------|---------|
| CI1208W | 1/4 | 0.67 | 200 |

REDUCING ELBOW



| PART NO. | TUBE OD | TUBE OD | BOX QTY |
|-----------|---------|---------|---------|
| CI211206W | 3/8 | - 3/16 | 200 |

TUBE TO HOSE ELBOW



| PART NO. | STEM OD | HOSE ID | BOX QTY |
|-----------|---------|---------|---------|
| CI291208W | 3/8 | - 1/4 | 400 |

UNION CONNECTOR



| PART NO. | TUBE OD | BOX QTY |
|----------|---------|---------|
| CI0408W | 1/4 | 400 |
| CI0412W | 3/8 | 200 |

FEMALE ADAPTER NPTF THREAD



| PART NO. | STEM OD | THREAD NPTF | BOX QTY |
|-----------|---------|-------------|---------|
| CI451222W | 3/8 | - 1/4 | 250 |

FIXED ELBOW NPTF THREAD



| PART NO. | TUBE OD | THREAD NPTF | BOX QTY |
|---------------------------|---------|-------------|---------|
| CI480821W | 1/4 | x 1/8 | 500 |
| CI480822W | 1/4 | x 1/4 | 400 |
| CI480823W | 1/4 | x 3/8 | 400 |
| CI481222W | 3/8 | x 1/4 | 200 |
| Blue Collet CI480821WB | 1/4 | x 1/8 | 500 |

Inch Superseal Fittings

For use with Stainless Steel Tubing

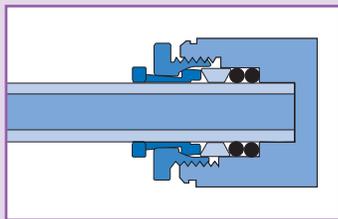
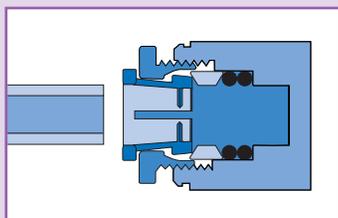
The SI Range of inch-size push-in fittings is offered for tube sizes 1/4" O.D. to 3/8" O.D. Superseal is a special fitting designed to provide extra grip on stainless steel tubes.

The Superseal design features a collet with integrally molded stainless steel teeth similar to the standard Super Speedfit design, but incorporating an additional hand-operated nut and wedge shaped plastic washer to apply extra pressure to the collet and the double O-ring seals. This ensures that the collet teeth bite thoroughly into the tube to provide grip, while at the same time compressing the o-rings to further enhance sealing.

Like other John Guest Fittings, Superseal is suitable for potable liquids and other food quality applications.

Detailed technical information is shown on page 24.

Prices are subject to change without notice.



UNION ELBOW SUPERSEAL – SPEEDFIT



| PART NO. | SUPERSEAL OD | SPEEDFIT OD | BOX QTY |
|-----------|--------------|-------------|---------|
| SI030812S | 1/4 | - 3/8 | 150 |
| SM030808S | 5/16 | - 5/16 | 200 |
| SI031012S | 5/16 | - 3/8 | 150 |
| SI031210S | 3/8 | - 5/16 | 150 |
| SI031212S | 3/8 | - 3/8 | 150 |

UNION ELBOW SUPERSEAL – SUPERSEAL



| PART NO. | SUPERSEAL OD | SUPERSEAL OD | BOX QTY |
|-----------|--------------|--------------|---------|
| SM400808S | 5/16 | - 5/16 | 150 |
| SI401210S | 3/8 | - 5/16 | 150 |
| SI401212S | 3/8 | - 3/8 | 150 |

UNION CONNECTOR SUPERSEAL – SPEEDFIT



| PART NO. | SUPERSEAL OD | SPEEDFIT OD | BOX QTY |
|-----------|--------------|-------------|---------|
| SM040808S | 5/16 | - 5/16 | 200 |
| SI041012S | 5/16 | - 3/8 | 200 |
| SI041016S | 5/16 | - 1/2 | 200 |
| SI041210S | 3/8 | - 5/16 | 200 |
| SI041212S | 3/8 | - 3/8 | 150 |

UNION CONNECTOR SUPERSEAL – SUPERSEAL



| PART NO. | SUPERSEAL OD | BOX QTY |
|-----------|--------------|---------|
| SM410808E | 5/16 | 200 |

MALE CONNECTOR BSPT THREAD



| PART NO. | SUPERSEAL OD | THREAD BSPT | BOX QTY |
|-----------|--------------|-------------|---------|
| SM010802S | 5/16 | x 1/4 | 200 |

MALE CONNECTOR BSPP THREAD



| PART NO. | SUPERSEAL OD | THREAD BSPP | BOX QTY |
|-----------|--------------|-------------|---------|
| SM010812S | 5/16 | x 1/4 | 200 |

FLARE MALE CONNECTOR MFL THREAD



| PART NO. | SUPERSEAL OD | THREAD MFL | BOX QTY |
|-----------|--------------|------------|---------|
| SM0108F4S | 5/16 | x 1/4 | 200 |

BARB CONNECTOR



| PART NO. | SUPERSEAL OD | HOSE ID | BOX QTY |
|-----------|--------------|---------|---------|
| SI270808S | 1/4 | - 1/4 | 300 |
| SI271008S | 5/16 | - 1/4 | 250 |
| SI271208S | 3/8 | - 1/4 | 200 |

FLOW BEND CONNECTOR SUPERSEAL – SPEEDFIT



| PART NO. | SUPERSEAL OD | SPEEDFIT OD | BOX QTY |
|-----------|--------------|-------------|---------|
| SM420808S | 5/16 | - 5/16 | 100 |
| SI421012S | 5/16 | - 3/8 | 100 |
| SI421210S | 3/8 | - 5/16 | 100 |
| SI421212S | 3/8 | - 3/8 | 100 |

SPANNER



| PART NO. | SIZE | BOX QTY |
|----------|------------|---------|
| SPAN1 | 5/16 & 3/8 | 200 |

Inch Brass Fittings

Designed for use in coffee brewing equipment, beverage dispensing and vending machine applications. The fittings are manufactured in brass with a polypropylene collet and a food grade EPDM o-ring. **NOT suitable for compressed air applications.**

Working Pressures and Temperatures

Water Max. 150 psi at 70°F (Max. 10 bar at 20°C)
 Max. 60 psi at 140°F (Max. 4 bar at 60°C)
 Min. 33°F/1°C

Detailed technical information is shown on page 24.

Prices are subject to change without notice.



BRASS FLARE FEMALE CONNECTOR

FFL
THREAD



| PART NO. | TUBE OD | THREAD FFL | BOX QTY |
|----------|---------|------------|---------|
|----------|---------|------------|---------|

| | | | |
|--------------|-------|-----|-----|
| MI4508F4S | 1/4 x | 1/4 | 200 |
| *MI4508F4SLF | 1/4 x | 1/4 | 200 |
| MI4512F4S | 3/8 x | 1/4 | 200 |
| *MI4512F4SLF | 3/8 x | 1/4 | 200 |
| MI4512F6S | 3/8 x | 3/8 | 100 |
| *MI4512F6SLF | 3/8 x | 3/8 | 100 |

1/4 (FFL) corresponds to a 7/16 - 20 UNF
 3/8 (FFL) corresponds to a 5/8 - 18 UNF

*Contains less than 0.25% lead.

BRASS FEMALE CONNECTOR (GARDEN HOSE)

NH
THREAD
(National Hose)



| PART NO. | TUBE OD | THREAD N.H. | BOX QTY |
|----------|---------|-------------|---------|
|----------|---------|-------------|---------|

| | | | |
|--------|-------|---------------|-----|
| NC2258 | 3/8 x | 3/4 - 11.5 NH | 100 |
|--------|-------|---------------|-----|

BRASS POLYPROPYLENE FEMALE CONNECTOR

BSPPT
THREAD



| PART NO. | TUBE OD | THREAD BSPPT | BOX QTY |
|----------|---------|--------------|---------|
|----------|---------|--------------|---------|

| | | | |
|-----------|-------|-----|-----|
| NC2145 | 1/4 x | 3/4 | 150 |
| *NC2145LF | 1/4 x | 3/4 | 150 |
| NC2249 | 3/8 x | 3/4 | 100 |
| *NC2249LF | 3/8 x | 3/4 | 100 |

BRASS FEMALE CONNECTOR (GARDEN HOSE)

NH
THREAD
(National Hose)



| PART NO. | TUBE OD | THREAD N.H. | BOX QTY |
|----------|---------|-------------|---------|
|----------|---------|-------------|---------|

| | | | |
|-----------|-------|---------------|-----|
| NC2098 | 1/4 x | 3/4 - 11.5 NH | 100 |
| *NC2098LF | 1/4 x | 3/4 - 11.5 NH | 100 |

A plug in elbow shown on page 5 will provide a neat 90° installation. The tube can be oriented in any direction.

*Contains less than 0.25% lead.

Metric to Inch Fittings

UNION CONNECTOR



| PART NO. | TUBE OD | TUBE OD | BOX QTY |
|----------|---------|---------|---------|
|----------|---------|---------|---------|

| | | | |
|-------|--------|------|-----|
| NC462 | 15mm - | 1/2" | 400 |
|-------|--------|------|-----|

STEM TO TUBE ADAPTER



| PART NO. | STEM OD | TUBE OD | BOX QTY |
|----------|---------|---------|---------|
|----------|---------|---------|---------|

| | | | |
|--------|--------|--------|-----|
| NC2164 | 15mm - | 3/8" | 200 |
| NC2173 | 1/2" | - 15mm | 100 |
| NC908 | 1/2" | - 18mm | 100 |

TUBE TO HOSE STEM



| PART NO. | STEM OD | HOSE ID | BOX QTY |
|----------|---------|---------|---------|
|----------|---------|---------|---------|

| | | | |
|-------|--------|------|-----|
| NC932 | 15mm - | 1/2" | 150 |
|-------|--------|------|-----|

BARB CONNECTOR



| PART NO. | STEM OD | HOSE ID | BOX QTY |
|----------|---------|---------|---------|
|----------|---------|---------|---------|

| | | | |
|-------|--------|------|------|
| NC448 | 15mm - | 1/2" | 1000 |
|-------|--------|------|------|

TEE ADAPTER



| PART NO. | TUBE OD ENDS | TUBE OD BRANCH | BOX QTY |
|----------|--------------|----------------|---------|
|----------|--------------|----------------|---------|

| | | | |
|-------|--------|------|-----|
| NC869 | 15mm - | 3/8" | 400 |
|-------|--------|------|-----|

STEM TO STEM ADAPTER



| PART NO. | STEM OD | STEM OD | BOX QTY |
|----------|---------|---------|---------|
|----------|---------|---------|---------|

| | | | |
|-------|--------|------|-----|
| NC478 | 15mm - | 3/8" | 150 |
|-------|--------|------|-----|

UNION CONNECTOR SUPERSEAL X SPEEDFIT



| PART NO. | SUPERSEAL OD | SPEEDFIT OD | BOX QTY |
|----------|--------------|-------------|---------|
|----------|--------------|-------------|---------|

| | | | |
|--------|--------|------|----|
| NC2301 | 15mm - | 1/2" | 80 |
|--------|--------|------|----|

Metric Polypropylene Fittings

The PPM Range of metric size push-in fittings is offered for our tube sizes 8mm O.D. to 15mm O.D. The fittings are manufactured in white polypropylene with EPDM o-rings. They have been developed to satisfy the compatibility needs for a wide range of applications.

The PPM Range is NOT suitable for compressed air applications. For these situations we recommend the PM Range on pages 15-17.

Working Pressures and Temperatures

Water Max. 150 psi at 70°F (Max. 10 bar at 20°C)
 Max. 60 psi at 140°F (Max. 4 bar at 60°C)
 Min. 33°F/1°C

Detailed technical information is shown on page 24.

Prices are subject to change without notice.



UNION CONNECTOR



| PART NO. | TUBE OD | BOX QTY |
|----------|---------|---------|
| PPM0408W | 8 | 300 |
| PPM0412W | 12 | 100 |

UNION ELBOW



| PART NO. | TUBE OD | BOX QTY |
|----------|---------|---------|
| PPM0308W | 8 | 300 |
| PPM0312W | 12 | 100 |

UNION TEE



| PART NO. | TUBE OD | BOX QTY |
|----------|---------|---------|
| PPM0208W | 8 | 200 |
| PPM0212W | 12 | 80 |

REDUCING UNION CONNECTOR



| PART NO. | TUBE OD | TUBE OD | BOX QTY |
|------------|---------|---------|---------|
| PPM201512W | 15 | 12 | 100 |

PLUG-IN ELBOW



| PART NO. | STEM OD | TUBE OD | BOX QTY |
|------------|---------|---------|---------|
| PPM220808W | 8 | 8 | 400 |
| PPM221212W | 12 | 12 | 100 |

REDUCER



| PART NO. | STEM OD | TUBE OD | BOX QTY |
|------------|---------|---------|---------|
| PPM061512W | 15 | 12 | 150 |

PLUG



| PART NO. | TUBE OD | BOX QTY |
|----------|---------|---------|
| PPM0808W | 8 | 500 |

DIVIDER



| PART NO. | TUBE OD | BOX QTY |
|----------|---------|---------|
| PPM2312W | 12 | 80 |

Adapters to convert to Inch sizes are shown on page 13.



Metric Acetal Fittings

The PM Range of metric-size push-in fittings is offered for tube sizes 4mm O.D. to 28mm O.D. The fittings are manufactured in black acetal copolymer with food grade nitrile O-rings. Especially produced for foodstuff and potable liquids, they are equally suitable for air and inert gases and can therefore be used on CO₂ lines, pneumatics applications and vacuum.

Detailed technical information is shown on page 24.

Prices are subject to change without notice.



MALE CONNECTOR

BSPT THREAD



| PART NO. | TUBE OD (MM) | THREAD BSPT (IN) | BOX QTY |
|-----------|--------------|------------------|---------|
| PM010401E | 4 x | 1/8 | 500 |
| PM010402E | 4 x | 1/4 | 500 |
| PM010501E | 5 x | 1/8 | 500 |
| PM010502E | 5 x | 1/4 | 500 |
| PM010601E | 6 x | 1/8 | 500 |
| PM010602E | 6 x | 1/4 | 500 |
| PM010801E | 8 x | 1/8 | 400 |
| PM010802E | 8 x | 1/4 | 400 |
| PM010803E | 8 x | 3/8 | 300 |
| PM011002E | 10 x | 1/4 | 250 |
| PM011003E | 10 x | 3/8 | 250 |
| PM011004E | 10 x | 1/2 | 200 |
| PM011203E | 12 x | 3/8 | 150 |
| PM011204E | 12 x | 1/2 | 150 |

UNION TEE



| PART NO. | TUBE OD (MM) | BOX QTY |
|----------|--------------|---------|
| PM0204E | 4 | 400 |
| PM0205E | 5 | 400 |
| PM0206E | 6 | 300 |
| PM0208E | 8 | 200 |
| PM0210E | 10 | 100 |
| PM0212E | 12 | 50 |
| PM0215E | 15 | 50 |
| PM0218E | 18 | 30 |
| PM0222E | 22 | 20 |
| PM0228E | 28 | 10 |

UNION ELBOW



| PART NO. | TUBE OD (MM) | BOX QTY |
|----------|--------------|---------|
| PM0304E | 4 | 500 |
| PM0305E | 5 | 500 |
| PM0306E | 6 | 400 |
| PM0308E | 8 | 300 |
| PM0310E | 10 | 200 |
| PM0312E | 12 | 100 |
| PM0315E | 15 | 50 |
| PM0318E | 18 | 50 |
| PM0322E | 22 | 30 |
| PM0328E | 28 | 20 |

UNION CONNECTOR



| PART NO. | TUBE OD (MM) | BOX QTY |
|----------|--------------|---------|
| PM0404E | 4 | 500 |
| PM0405E | 5 | 500 |
| PM0406E | 6 | 400 |
| PM0408E | 8 | 300 |
| PM0410E | 10 | 200 |
| PM0412E | 12 | 100 |
| PM0415E | 15 | 100 |
| PM0418E | 18 | 50 |
| PM0422E | 22 | 50 |
| PM0428E | 28 | 25 |

STEM ADAPTER

BSPT THREAD



| PART NO. | STEM OD (MM) | THREAD BSPT (IN) | BOX QTY |
|-----------|--------------|------------------|---------|
| PM050401E | 4 x | 1/8 | 500 |
| PM050402E | 4 x | 1/4 | 500 |
| PM050501E | 5 x | 1/8 | 500 |
| PM050502E | 5 x | 1/4 | 500 |
| PM050601E | 6 x | 1/8 | 500 |
| PM050602E | 6 x | 1/4 | 500 |
| PM050801E | 8 x | 1/8 | 500 |
| PM050802E | 8 x | 1/4 | 500 |
| PM050803E | 8 x | 3/8 | 300 |
| PM051002E | 10 x | 1/4 | 300 |
| PM051003E | 10 x | 3/8 | 300 |
| PM051004E | 10 x | 1/2 | 200 |
| PM051203E | 12 x | 3/8 | 200 |
| PM051204E | 12 x | 1/2 | 150 |

MALE CONNECTOR

BSPP THREAD



| PART NO. | TUBE OD (MM) | THREAD BSPP (IN) | BOX QTY |
|-----------|--------------|------------------|---------|
| PM010411E | 4 x | 1/8 | 500 |
| PM010412E | 4 x | 1/4 | 500 |
| PM010511E | 5 x | 1/8 | 500 |
| PM010512E | 5 x | 1/4 | 500 |
| PM010611E | 6 x | 1/8 | 500 |
| PM010612E | 6 x | 1/4 | 500 |
| PM010811E | 8 x | 1/8 | 400 |
| PM010812E | 8 x | 1/4 | 400 |
| PM010813E | 8 x | 3/8 | 300 |
| PM011012E | 10 x | 1/4 | 250 |
| PM011013E | 10 x | 3/8 | 250 |
| PM011014E | 10 x | 1/2 | 200 |
| PM011213E | 12 x | 3/8 | 150 |
| PM011214E | 12 x | 1/2 | 150 |
| PM011514E | 15 x | 1/2 | 150 |
| PM011814E | 18 x | 1/2 | 70 |
| PM012216E | 22 x | 3/4 | 50 |

| PART NO. | TUBE OD (MM) | THREAD NPTF (IN) | BOX QTY |
|-----------|--------------|------------------|---------|
| PM010622E | 6 x | 1/4 | 500 |

STEM ADAPTER

BSPP THREAD



| PART NO. | STEM OD (MM) | THREAD BSPP (IN) | BOX QTY |
|-----------|--------------|------------------|---------|
| PM050411E | 4 x | 1/8 | 500 |
| PM050412E | 4 x | 1/4 | 500 |
| PM050511E | 5 x | 1/8 | 500 |
| PM050512E | 5 x | 1/4 | 500 |
| PM050611E | 6 x | 1/8 | 500 |
| PM050612E | 6 x | 1/4 | 500 |
| PM050811E | 8 x | 1/8 | 500 |
| PM050812E | 8 x | 1/4 | 500 |
| PM050813E | 8 x | 3/8 | 300 |
| PM051012E | 10 x | 1/4 | 300 |
| PM051013E | 10 x | 3/8 | 300 |
| PM051014E | 10 x | 1/2 | 200 |
| PM051213E | 12 x | 3/8 | 200 |
| PM051214E | 12 x | 1/2 | 150 |
| PM051513E | 15 x | 3/8 | 150 |
| PM051514E | 15 x | 1/2 | 100 |
| PM051814E | 18 x | 1/2 | 100 |
| PM052214E | 22 x | 1/2 | 100 |
| PM052216E | 22 x | 3/4 | 50 |

REDUCER



| PART NO. | STEM OD (MM) | TUBE OD (MM) | BOX QTY |
|-----------|--------------|--------------|---------|
| PM060504E | 5 | 4 | 500 |
| PM060604E | 6 | 4 | 500 |
| PM060605E | 6 | 5 | 500 |
| PM060804E | 8 | 4 | 500 |
| PM060805E | 8 | 5 | 500 |
| PM060806E | 8 | 6 | 500 |
| PM061006E | 10 | 6 | 400 |
| PM061008E | 10 | 8 | 400 |
| PM061208E | 12 | 8 | 300 |
| PM061210E | 12 | 10 | 250 |
| PM061510E | 15 | 10 | 200 |
| PM061512E | 15 | 12 | 100 |
| PM061815E | 18 | 15 | 100 |
| PM062215E | 22 | 15 | 50 |
| PM062218E | 22 | 18 | 50 |
| PM062815E | 28 | 15 | 50 |
| PM062822E | 28 | 22 | 50 |

PLUG



| PART NO. | STEM OD (MM) | BOX QTY |
|----------|--------------|---------|
| PM0804R | 4 | 1000 |
| PM0805R | 5 | 1000 |
| PM0806R | 6 | 500 |
| PM0808R | 8 | 500 |
| PM0810R | 10 | 400 |
| PM0812R | 12 | 300 |

R-Denotes Red Color Plug.

SWIVEL ELBOW

BSPT THREAD



| PART NO. | TUBE OD (MM) | THREAD BSPT (IN) | BOX QTY |
|-----------|--------------|------------------|---------|
| PM090401E | 4 | x 1/8 | 400 |
| PM090402E | 4 | x 1/4 | 300 |
| PM090501E | 5 | x 1/8 | 400 |
| PM090502E | 5 | x 1/4 | 300 |
| PM090601E | 6 | x 1/8 | 300 |
| PM090602E | 6 | x 1/4 | 200 |
| PM090801E | 8 | x 1/8 | 200 |
| PM090802E | 8 | x 1/4 | 200 |
| PM090803E | 8 | x 3/8 | 200 |
| PM091002E | 10 | x 1/4 | 100 |
| PM091003E | 10 | x 3/8 | 100 |
| PM091004E | 10 | x 1/2 | 100 |
| PM091203E | 12 | x 3/8 | 50 |
| PM091204E | 12 | x 1/2 | 50 |

SWIVEL ELBOW

BSPP THREAD



| PART NO. | TUBE OD (MM) | THREAD BSPP (IN) | BOX QTY |
|-----------|--------------|------------------|---------|
| PM090411E | 4 | x 1/8 | 400 |
| PM090412E | 4 | x 1/4 | 300 |
| PM090511E | 5 | x 1/8 | 400 |
| PM090512E | 5 | x 1/4 | 300 |
| PM090611E | 6 | x 1/8 | 300 |
| PM090612E | 6 | x 1/4 | 200 |
| PM090811E | 8 | x 1/8 | 200 |
| PM090812E | 8 | x 1/4 | 200 |
| PM090813E | 8 | x 3/8 | 200 |
| PM091012E | 10 | x 1/4 | 100 |
| PM091013E | 10 | x 3/8 | 100 |
| PM091014E | 10 | x 1/2 | 100 |
| PM091213E | 12 | x 3/8 | 50 |
| PM091214E | 12 | x 1/2 | 50 |

SWIVEL BRANCH TEE

BSPT THREAD



| PART NO. | TUBE OD (MM) | THREAD BSPT (IN) | BOX QTY |
|-----------|--------------|------------------|---------|
| PM100401E | 4 | x 1/8 | 200 |
| PM100402E | 4 | x 1/4 | 200 |
| PM100501E | 5 | x 1/8 | 200 |
| PM100502E | 5 | x 1/4 | 200 |
| PM100601E | 6 | x 1/8 | 200 |
| PM100602E | 6 | x 1/4 | 200 |
| PM100801E | 8 | x 1/8 | 100 |
| PM100802E | 8 | x 1/4 | 100 |
| PM100803E | 8 | x 3/8 | 100 |
| PM101002E | 10 | x 1/4 | 100 |
| PM101003E | 10 | x 3/8 | 100 |
| PM101004E | 10 | x 1/2 | 100 |
| PM101203E | 12 | x 3/8 | 50 |
| PM101204E | 12 | x 1/2 | 50 |

SWIVEL BRANCH TEE

BSPP THREAD



| PART NO. | TUBE OD (MM) | THREAD BSPP (IN) | BOX QTY |
|-----------|--------------|------------------|---------|
| PM100411E | 4 | x 1/8 | 200 |
| PM100412E | 4 | x 1/4 | 200 |
| PM100511E | 5 | x 1/8 | 200 |
| PM100512E | 5 | x 1/4 | 200 |
| PM100611E | 6 | x 1/8 | 200 |
| PM100612E | 6 | x 1/4 | 200 |
| PM100811E | 8 | x 1/8 | 100 |
| PM100812E | 8 | x 1/4 | 100 |
| PM100813E | 8 | x 3/8 | 100 |
| PM101012E | 10 | x 1/4 | 100 |
| PM101013E | 10 | x 3/8 | 100 |
| PM101014E | 10 | x 1/2 | 50 |
| PM101213E | 12 | x 3/8 | 50 |
| PM101214E | 12 | x 1/2 | 50 |

SWIVEL MALE RUN TEE

BSPT THREAD



| PART NO. | TUBE OD (MM) | THREAD BSPT (IN) | BOX QTY |
|-----------|--------------|------------------|---------|
| PM110401E | 4 | x 1/8 | 200 |
| PM110402E | 4 | x 1/4 | 200 |
| PM110501E | 5 | x 1/8 | 200 |
| PM110502E | 5 | x 1/4 | 200 |
| PM110601E | 6 | x 1/8 | 200 |
| PM110602E | 6 | x 1/4 | 200 |
| PM110801E | 8 | x 1/8 | 100 |
| PM110802E | 8 | x 1/4 | 100 |
| PM110803E | 8 | x 3/8 | 100 |
| PM111002E | 10 | x 1/4 | 100 |
| PM111003E | 10 | x 3/8 | 100 |
| PM111004E | 10 | x 1/2 | 100 |
| PM111203E | 12 | x 3/8 | 50 |
| PM111204E | 12 | x 1/2 | 50 |

SWIVEL MALE RUN TEE

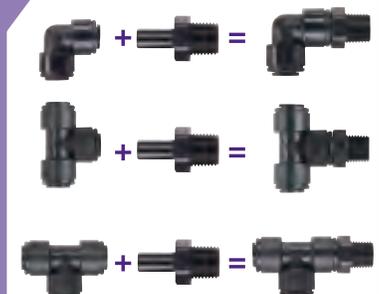
BSPP THREAD



| PART NO. | TUBE OD (MM) | THREAD BSPP (IN) | BOX QTY |
|-----------|--------------|------------------|---------|
| PM110411E | 4 | x 1/8 | 200 |
| PM110412E | 4 | x 1/4 | 200 |
| PM110511E | 5 | x 1/8 | 200 |
| PM110512E | 5 | x 1/4 | 200 |
| PM110611E | 6 | x 1/8 | 200 |
| PM110612E | 6 | x 1/4 | 200 |
| PM110811E | 8 | x 1/8 | 100 |
| PM110812E | 8 | x 1/4 | 100 |
| PM110813E | 8 | x 3/8 | 100 |
| PM111012E | 10 | x 1/4 | 100 |
| PM111013E | 10 | x 3/8 | 100 |
| PM111014E | 10 | x 1/2 | 50 |
| PM111213E | 12 | x 3/8 | 50 |
| PM111214E | 12 | x 1/2 | 50 |

John Guest Adaptability

Standard **Super Speedfit** products can be coupled together to form integral new fittings.



BULKHEAD UNION


| PART NO. | TUBE OD (MM) | MOUNTING HOLE DIA. (MM) | BOX QTY |
|----------|--------------|-------------------------|---------|
| PM1204E | 4 | 16.5 | 200 |
| PM1205E | 5 | 16.5 | 200 |
| PM1206E | 6 | 16.5 | 200 |
| PM1208E | 8 | 21.0 | 100 |
| PM1210E | 10 | 21.0 | 100 |
| PM1212E | 12 | 26.5 | 50 |

ENLARGER


| PART NO. | STEM OD (MM) | TUBE OD (MM) | BOX QTY |
|-----------|--------------|--------------|---------|
| PM130405E | 4 | 5 | 500 |

REDUCING UNION


| PART NO. | TUBE OD (MM) | TUBE OD (MM) | BOX QTY |
|-----------|--------------|--------------|---------|
| PM200604E | 6 | 4 | 400 |
| PM200804E | 8 | 4 | 300 |
| PM200806E | 8 | 6 | 200 |
| PM201004E | 10 | 4 | 200 |
| PM201006E | 10 | 6 | 200 |
| PM201008E | 10 | 8 | 200 |
| PM201208E | 12 | 8 | 100 |
| PM201210E | 12 | 10 | 100 |

REDUCING ELBOW


| PART NO. | TUBE OD (MM) | TUBE OD (MM) | BOX QTY |
|-----------|--------------|--------------|---------|
| PM210604E | 6 | 4 | 400 |
| PM210804E | 8 | 4 | 300 |
| PM210806E | 8 | 6 | 200 |
| PM211004E | 10 | 4 | 200 |
| PM211006E | 10 | 6 | 200 |
| PM211008E | 10 | 8 | 200 |
| PM211208E | 12 | 8 | 100 |
| PM211210E | 12 | 10 | 100 |

PLUG IN ELBOW


| PART NO. | STEM OD (MM) | TUBE OD (MM) | BOX QTY |
|-----------|--------------|--------------|---------|
| PM220404E | 4 | 4 | 500 |
| PM220505E | 5 | 5 | 500 |
| PM220606E | 6 | 6 | 500 |
| PM220808E | 8 | 8 | 400 |
| PM221010E | 10 | 10 | 200 |
| PM221212E | 12 | 12 | 100 |
| PM221515E | 15 | 15 | 100 |
| PM221818E | 18 | 18 | 50 |
| PM222222E | 22 | 22 | 50 |

TWO-WAY DIVIDER


| PART NO. | TUBE OD (MM) | BOX QTY |
|----------|--------------|---------|
| PM2304E | 4 | 300 |
| PM2308E | 8 | 100 |
| PM2310E | 10 | 100 |
| PM2315E | 15 | 50 |

REDUCING TEE


| PART NO. | TUBE OD ENDS (MM) | TUBE OD BRANCH (MM) | BOX QTY |
|----------|-------------------|---------------------|---------|
| PM3018AE | 18 | 15 | 30 |
| PM3022AE | 22 | 15 | 20 |

FEMALE CONNECTOR


| PART NO. | TUBE OD (MM) | THREAD (IN) | BOX QTY |
|------------|--------------|-------------|---------|
| PM450411E | 4 | x 1/8 BSPP | 500 |
| PM450611E | 6 | x 1/8 BSPP | 500 |
| PM450612E | 6 | x 1/4 BSPP | 300 |
| PM450812E | 8 | x 1/4 BSPP | 300 |
| PM450813E | 8 | x 3/8 BSPP | 200 |
| PM4508F4S | 8 | x 1/4 FFL | 300 |
| PM4508C5S | 8 | x 1/2-16UN | 300 |
| PM451015FE | 10 | x 5/8 BSPP | 100 |
| PM451215FE | 12 | x 5/8 BSPP | 150 |

TUBE TO HOSE STEM


| PART NO. | STEM OD (MM) | HOSE ID (MM) | BOX QTY |
|-----------|--------------|--------------|---------|
| PM250604E | 6 | - 4 | 500 |
| PM250806E | 8 | - 6 | 500 |
| PM251008E | 10 | - 8 | 300 |

END STOP


| PART NO. | TUBE OD (MM) | BOX QTY |
|----------|--------------|---------|
| PM4612E | 12 | 250 |
| PM4615E | 15 | 200 |
| PM4622E | 22 | 80 |

FIXED ELBOW


| PART NO. | TUBE OD (MM) | THREAD NPTF (IN) | BOX QTY |
|-----------|--------------|------------------|---------|
| PM480621E | 6 | x 1/8 | 500 |
| PM480622E | 6 | x 1/4 | 400 |
| PM480623E | 6 | x 3/8 | 300 |

OFFSET CONNECTOR


| PART NO. | TUBE OD (MM) | TUBE OD (MM) | BOX QTY |
|----------|--------------|--------------|---------|
| NC657 | 12 | - 8 | 1000 |

U-BEND


| PART NO. | TUBE OD (MM) | BOX QTY |
|----------|--------------|---------|
| PMUB15E | 15 | 50 |

ACCESSORIES FOR PM FITTINGS ARE SHOWN ON PAGE 23.



Inch Polypropylene Angle Stop Adapter Valves



The ASVPP Range of inch-size Angle Stop Adapter Valves is offered in white polypropylene with food grade EPDM o-rings. Our Angle Stop Adapter Valve connects between your valve and riser, to the main water supply line, for applications in Reverse Osmosis, Filtration Systems, Automatic Coffee Brewers, Ice-makers, and many more. Please refer to our Technical Support Department for guidance on use with other potable liquids.

The valves are not to be used with compressed air, explosive gases, petroleum spirits and other fuels, or for heating systems.

FOR USE WITH WATER SUPPLY ONLY.

Working Pressures and Temperatures

Water Max. 150 psi at 70°F (Max. 10 bar at 20°C)
 Max. 60 psi at 140°F (Max. 4 bar at 60°C)
 Min. 33°F/1°C

Detailed technical information is shown on page 24.

Prices are subject to change without notice.

ANGLE STOP ADAPTER VALVE •



| PART NO. | THREAD MALE | x | THREAD FEMALE | x | TUBE | BAG | BOX |
|-----------|-------------|---|---------------|---|------|-----|-----|
| | COMPRESSION | | COMPRESSION | | OD | | |
| ASVPP1 | 3/8" | | 3/8" | | 1/4" | 1 | 30 |
| *ASVPP1LF | 3/8" | | 3/8" | | 1/4" | 1 | 30 |
| ASVPP2 | 3/8" | | 3/8" | | 3/8" | 1 | 30 |
| *ASVPP2LF | 3/8" | | 3/8" | | 3/8" | 1 | 30 |

Lead Free
 Lead Free

ANGLE STOP ADAPTER VALVE (CONVERSION THREAD) •



| PART NO. | THREAD MALE | x | THREAD | x | TUBE | BAG | BOX |
|-----------|-------------|---|-------------|---|------|-----|-----|
| | FEMALE NPS | | COMPRESSION | | OD | | |
| ASVPP5 | 1/2" | | 3/8" | | 1/4" | 1 | 40 |
| *ASVPP5LF | 1/2" | | 3/8" | | 1/4" | 1 | 40 |
| ASVPP6 | 1/2" | | 3/8" | | 3/8" | 1 | 30 |
| *ASVPP6LF | 1/2" | | 3/8" | | 3/8" | 1 | 20 |

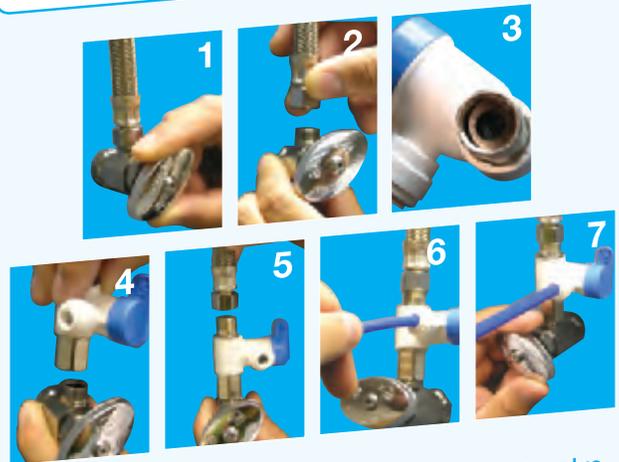
Lead Free
 Lead Free

*Contains less than 0.25% lead.



*Conversion Adapter can be threaded to either side of the valve to make configurations of 1/2"x1/2" NPS or 3/8"x3/8" Compression.

How to connect the Angle Stop Adapter Valve



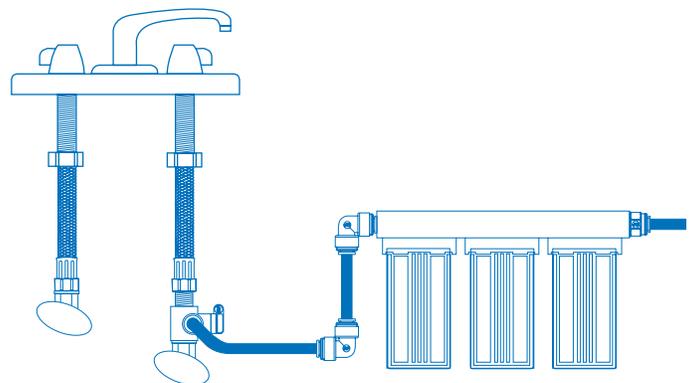
- 1 Shut off water supply at brass/chrome supply valve.
- 2 Disconnect riser from brass/chrome supply valve.
- 3 Ensure that the sealing gasket is fully seated into the Angle Stop Valve female thread.
- 4 Install Angle Stop Adapter Valve on supply valve.
- 5 Connect the riser to the Angle Stop Adapter Valve.
- 6 Fully insert tubing into the Speedfit side of the valve.
- 7 Open valves and check for leaks.

1/4 Turn Valves. These valves have been designed to allow temporary servicing of downstream equipment and must only be used in the fully open or fully closed position.

DO NOT USE THESE VALVES:

- In a partially open position to control flow.
- To provide a permanent termination.
- Without tubing assembled or plugged (or threaded connections sealed).
- As a tap or "faucet".

1/4 Turn Valves are indicated by this marker '•'



Inch Polypropylene Shut-Off Valve

The PPSV Range of Shut-Off Valve is offered for tube sizes 1/4" O.D. and 3/8" O.D., produced in polypropylene and fitted with EPDM O-rings. Polypropylene has the advantage of being more chemically resistant than acetal.

The valves are for use with potable water. For use with other potable liquids please contact our Technical Support Department for guidance.

The valves are not to be used with compressed air, explosive gases, petroleum spirits and other fuels or for heating systems.

Working Pressures and Temperatures

| | | |
|-------|----------------------|-----------------------|
| Water | Max. 150 psi at 70°F | (Max. 10 bar at 20°C) |
| | Max. 60 psi at 140°F | (Max. 4 bar at 60°C) |
| | Min. 33°F/1°C | |

Detailed technical information is shown on page 24.

Prices are subject to change without notice.



SPEEDFIT TO MALE • NPTF THREAD



| PART NO. | TUBE OD | THREAD NPTF | BOX QTY |
|-------------|---------|-------------|---------|
| PPSV010822W | 1/4 x | 1/4 | 200 |
| PPSV011223W | 3/8 x | 3/8 | 100 |

SPEEDFIT TO SPEEDFIT •



| PART NO. | TUBE OD | BOX QTY |
|-------------|---------|---------|
| PPSV040808W | 1/4 | 200 |
| PPSV041212W | 3/8 | 100 |

SPEEDFIT TO FEMALE • NPTF THREAD



| PART NO. | TUBE OD | THREAD NPTF | BOX QTY |
|-------------|---------|-------------|---------|
| PPSV500822W | 1/4 x | 1/4 | 200 |
| PPSV501222W | 3/8 x | 1/4 | 100 |

Acetal Angle Stop Valves

John Guest Angle Stop Valves are manufactured in Acetal with EPDM o-rings. They incorporate a single check valve and a 1/4 turn chromium plated ball valve.

The valves are for use with potable water. For use with other potable liquids please refer to our Technical Support Department for guidance.

The valves are not to be used with compressed air, explosive gases, petroleum spirits and other fuels or for heating systems.

Working Pressures and Temperatures

| | | |
|-------|----------------------|------------------|
| Water | Max. 174 psi at 68°F | (12 bar at 20°C) |
| | Min. 87 psi at 149°F | (6 bar at 65°C) |

ACETAL TEE VALVE •



| PART NO. | TUBE OD | TUBE OD BRANCH | BOX QTY |
|----------|---------|----------------|---------|
| ASV3 | 15mm | - 1/4 | 30 |
| ASV4 | 15mm | - 3/8 | 25 |

Provides an inline connection with shut-off and check valve protection for easy installation of water coolers, filtration equipment and vending machines.

1/4 Turn Valves. These valves have been designed to allow temporary servicing of downstream equipment and must only be used in the fully open or fully closed position.

DO NOT USE THESE VALVES:

- In a partially open position to control flow.
- To provide a permanent termination.
- Without tubing assembled or plugged (or threaded connections sealed).
- As a tap or "faucet".

1/4 Turn Valves are indicated by this marker '•'

Inch Acetal Shut-Off Valve

The PISV Range of Inch-size Shut-Off Valves is available in 3/8" and 1/2" tube O.D. size. The Valve is manufactured in gray acetal copolymer with a nitrile o-ring.

The valves are available with long and short handles to operate a 1/4 turn off action.

Specifically designed for compressed air and potable liquids, the valves are ideal for CO₂ lines in beverage dispensing and for pneumatic applications.

Working Pressures and Temperatures

| | | |
|---------------------|------|-----------------------------------|
| Air | | 150 psi at -4°F (10 bar at -20°C) |
| Air/Potable Liquids | Max. | 150 psi at 33°F (10 bar at 1°C) |
| | Max. | 150 psi at 73°F (10 bar at 23°C) |
| | Max. | 100 psi at 150°F (7 bar at 65°C) |

Detailed technical information is shown on page 24.
Prices are subject to change without notice.



It is the customer's responsibility to ensure that the installation of John Guest fittings in CO₂ applications is performed in accordance with the relevant industry and government safety guidelines.

SHUT-OFF VALVE • SHORT HANDLE



| PART NO. | TUBE OD | BOX QTY |
|------------|---------|---------|
| PISV0412CS | 3/8 | 100 |

SHUT-OFF VALVE • LONG HANDLE



| PART NO. | TUBE OD | BOX QTY |
|-----------|---------|---------|
| PISV0412S | 3/8 | 100 |
| PISV0416S | 1/2 | 50 |

MOUNTING CLIP



| PART NO. | SIZE | BOX QTY |
|----------|------|---------|
| SVMC-06 | 6mm | 200 |
| SVMC-10 | 10mm | 100 |

The mounting clip is designed to give a very firm grip. A twisting action is needed to remove the valve. The clip can be used with either shut-off valve. When used with the short handle version, valves can be banked together.

Available for 3/8" O.D. valves.

Acetal Shut-Off and By-Pass Valves

Specifically manufactured in white acetal with EPDM 'O'-rings, these valves have been developed to satisfy the requirements of the US Recreational Vehicle (RV) and Mobile Home (MH) markets. The valves are for hot and cold water only.

Working Pressures and Temperatures

| | | |
|-------|----------------------|-----------------------|
| Water | Max. 150 psi at 70°F | (Max. 10 bar at 20°C) |
| | Max. 60 psi at 140°F | (Max. 4 bar at 60°C) |
| | Min. 34°F/1°C | |

Detailed technical information is shown on page 36.
Not IAPMO Listed

STRAIGHT SHUT-OFF VALVE •



| PART NO. | SIZE CTS | BOX QTY |
|----------|----------|---------|
| NC2390 | 1/2 | 25 |

BY-PASS VALVES •



| PART NO. | SIZE CTS | BOX QTY |
|-----------|----------|---------|
| NC2391-RH | 1/2 | 25 |
| NC2391-LH | 1/2 | 25 |

1/4 Turn Valves. These valves have been designed to allow temporary servicing of downstream equipment and must only be used in the fully open or fully closed position.

DO NOT USE THESE VALVES:

- In a partially open position to control flow.
- To provide a permanent termination.
- Without tubing assembled or plugged (or threaded connections sealed).
- As a tap or "faucet".

1/4 Turn Valves are indicated by this marker ••

Inch Polyethylene Tubing

LLDPE TUBING

The John Guest PE Range of plastic tubing is produced in Linear Low Density Polyethylene for cold and intermittent hot water applications. Our tubing is made from FDA compliant materials and is NSF International Standard 51 & 61 certified. John Guest LLDPE Tubing provides excellent resistance to environmental stress cracking as measured by ASTM D-1693 (10% IGEPAL).



John Guest Polyethylene tubing is designed for use with John Guest Super Speedfit push-in fittings, John Guest Shut-Off Valves and virtually all standard tubing connectors.

Prices are subject to change without notice.

PRICE PER COIL

| PART NO. | OD | COIL LENGTH | BOX QTY | |
|------------------|-------|-------------|---------|--|
| PE-08-BI-0500F-N | 1/4" | 500 FT | 2 | |
| PE-08-BI-1000F-N | 1/4" | 1000FT | 1 | |
| PE-10-CI-0500F-N | 5/16" | 500 FT | 1 | |
| PE-12-EI-0500F-N | 3/8" | 500 FT | 1 | |
| PE-16-GI-0250F-N | 1/2" | 250 FT | 1 | |
| PE-04025-0100M-N | 4mm | 100m | 2 | |
| PE-0604-0100M-N | 6mm | 100m | 2 | |
| PE-0806-100M-N | 8mm | 100m | 2 | |
| PE-1007-100M-N | 10mm | 100m | 1 | |
| PE-1209-100M-N | 12mm | 100m | 1 | |
| PE-15115-0100M-B | 15mm | 100m | 2 | |

N denotes natural color. To order other colors please use suffix:

B=Blue, R=Red, E=Black, W=White, G=Green, Y=Yellow, O=Orange, and V=Violet



COLORS AVAILABLE

| SUFFIX COLOR | | SIZES | | | | | | | | | |
|--------------|---------|-------|-------|------|------|-----|-----|-----|------|------|------|
| | | 1/4" | 5/16" | 3/8" | 1/2" | 4mm | 6mm | 8mm | 10mm | 12mm | 15mm |
| N | NATURAL | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ○ |
| W | WHITE | ✓ | ○ | ✓ | ✓ | ○ | ○ | ✓ | ○ | ○ | ○ |
| B | BLUE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| E | *BLACK | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ○ |
| R | RED | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| O | ORANGE | ✓ | ○ | ✓ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| V | VIOLET | ✓ | ○ | ✓ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| G | GREEN | ✓ | ○ | ✓ | ○ | ○ | ○ | ○ | ○ | ○ | ✓ |
| Y | YELLOW | ✓ | ○ | ✓ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |

* Black tubing is UV stabilized.

✓ Denotes standard colors available.

○ Denotes optional colors which may be available based on order quantity.

WORKING PRESSURES AND TEMPERATURES - LLDPE

| TUBE OD | | TUBE ID | |
|---------|---|---------|---------------------------------|
| 1/4" | x | 0.170" | 230 psi @ 70°F 15 bar @ 20°C |
| 5/16" | x | 0.187" | |
| 3/8" | x | 0.25" | |
| 4mm | x | 2.5mm | 120 psi @ 150°F 8 bar @ 65°C |
| 6mm | x | 4mm | |
| 1/2" | x | 0.375" | 150 psi @ 70°F 10 bar @ 20°C |
| 8mm | x | 6mm | |
| 10mm | x | 7mm | |
| 12mm | x | 9mm | 90 psi @ 150°F 6 bar @ 65°C |
| 15mm | x | 11.5mm | |

1 Bar = 14.5 psi (approx.)

Maximum Working Temperature 150°F at pressures shown in chart above. For temperatures above 150°F customers should contact our Technical Support Department.

Please note maximum pressure rating for a 'system' depends on the lowest rated component, e.g., most John Guest fittings have a different rating from the tube ratings shown above.

Burst Pressures are approximately 3 times the maximum working pressure.

CHEMICAL RESISTANCE

For use with chemicals or potentially aggressive liquids, please refer to our Technical Service Department.

NOTE: When using cleaning agents or other potentially aggressive liquids, please ensure compatibility with tubing and fittings. LLDPE is not recommended for mineral oils, gases and fuels or high pressure compressed air / pneumatic systems.

EXPOSURE TO ULTRAVIOLET LIGHT

John Guest Black LLDPE tubing is UV stabilized and can be exposed to direct ultraviolet light (e.g. direct sunlight); other colors of John Guest LLDPE tubing are not UV stabilized and cannot be exposed to direct ultraviolet light.

PNEUMATICS APPLICATIONS

John Guest LLDPE tube is suitable for pneumatic applications providing pressure is maximum 150 psi @ 70°F (10 bar @ 20°C). At elevated temperatures 120°F+ (50°C+) mineral oil will degrade LLDPE tube and, therefore, LLDPE tube used in pneumatic circuits should be periodically checked and replaced if necessary.

TUBE TOLERANCES

| | |
|--------------|----------------|
| 1/4" to 1/2" | +0.001/-0.004" |
| 4mm to 6mm | +0.05/-0.07mm |
| 8mm to 12mm | +0.05/-0.10mm |
| 15mm | +0.10/-0.10mm |

TUBE INSERTS



If the tube is used in a warm water system a tube insert is necessary.

| PART NO. | TUBE ID | TUBE OD | BAG QTY | BOX QTY | |
|----------|---------|---------|---------|---------|--|
| TSI250S | 1/4 | 5/16 | 10 | 1000 | |
| TSI312S | 5/16 | 3/8 | 100 | 2500 | |
| TSI375S | 3/8 | 1/2 | 10 | 500 | |

POTABLE WATER APPLICATIONS

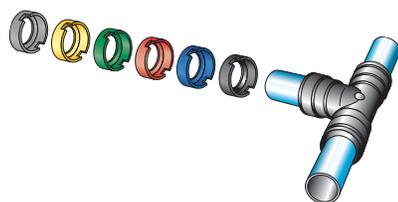
John Guest Ltd LLDPE tubing is suitable for potable cold water applications with a MAXIMUM chlorine content of 4 parts per million (4ppm). Heated water above 70°F (20°C) and/or pressures above the maximum will significantly reduce its service life. Direct exposure to sunlight will also significantly reduce its useful service. As part of good practice tubing should be inspected regularly. If there is any evidence of damage, hardening or cracking it should be replaced immediately.

NOTE: Hot and cold water plumbing systems must comply with local plumbing code for pipe and fittings.



Inch/Metric Accessories

COLLET COVER



The slip-on Collet Cover shown in the illustration prevents accidental removal or tampering with tubing. Tubing can be inserted with the Collet Cover already attached to the fittings or the cover can slide into position afterwards. The cover is easily removed when required and comes in a variety of colors for color coding.

Colors available - Suffix indicates colors

E = Black Y = Yellow B = Blue
R = Red S = Gray G = Green

Prices are subject to change without notice.

INCH SIZE

| PART NO. | TUBE OD | BOX QTY |
|----------|---------|---------|
| PM1904S | 5/32 | 1000 |
| PI1906S | 3/16 | 1000 |
| PI1908S | 1/4 | 1000 |
| PM1908S | 5/16 | 1000 |
| PI1912S | 3/8 | 500 |
| PI1916S | 1/2 | 1000 |

Please indicate by suffix, color required or gray will be supplied.

METRIC SIZE

| PART NO. | TUBE OD | BOX QTY |
|----------|---------|---------|
| PM1904E | 4 | 1000 |
| PM1905E | 5 | 1000 |
| PM1906E | 6 | 1000 |
| PM1908E | 8 | 1000 |
| PM1910E | 10 | 500 |
| PM1912E | 12 | 500 |
| PM1915E | 15 | 400 |
| PM1918E | 18 | 200 |
| PM1922E | 22 | 200 |

15mm to 22mm sizes are only available in black as standard, white, red or blue.

Please indicate by suffix, color required or black will be supplied.

FLOW BEND CLIP



| PART NO. | TUBE OD | BOX QTY |
|----------|------------|---------|
| PM2608S | 5/16 (8mm) | 300 |
| PM2610S | 3/8 (10mm) | 200 |

Designed to support tube and eliminate kinking.

TUBE INSERT



| PART NO. | TUBE ID | TUBE OD | BOX QTY |
|----------|---------|---------|---------|
| TSI250S | 1/4 | 5/16 | 1000 |
| TSI312S | 5/16 | 3/8 | 2500 |
| TSI375S | 3/8 | 1/2 | 500 |
| TSM10N | | 10 | 1000 |
| TSM15N | | 15 | 500 |
| TSM22N | | 22 | 250 |

COLLET LOCKING/RELEASE TOOL



| PART NO. | SIZE | BOX QTY |
|-----------|-------------|---------|
| ICLT/2 | 3/16 to 1/2 | 50 |
| TSPITOOOL | 1/4, 3/8 | 50 |

TUBE CUTTER



| PART NO. | BOX QTY |
|--------------------|---------|
| TSNIP | 50 |
| BLADES BLADES ONLY | 300 |

Suitable for up to 12mm tube.

PIPE CUTTER



| PART NO. | BOX QTY |
|----------|---------|
| JG-TS | 1 |

Suitable for up to 22mm pipe.

LOCKING CLIP



| | PART NO. | TUBE OD | BAG QTY | BOX QTY |
|--------|----------|---------|---------|---------|
| Inch | PIC1808R | 1/4 | 100 | 1000 |
| | PIC1812R | 3/8 | 100 | 1000 |
| | PIC1816R | 1/2 | 100 | 2000 |
| Metric | PMC1808R | 8mm | | 8000 |



Secures the collet in its position to prevent an accidental disconnection of the tube.

Locking clips should be connected only after full insertion to prevent scraping of the tube. Locking Clips are not designed for use with John Guest Stem Adapters in Swivel Combinations.

Technical Specifications

Working Pressure and Temperature Range for Acetal Fittings (PI, SI, SM and PM).

Super Speedfit® fittings are suitable for the following pressures and temperatures.

| Temp. | Pressure | |
|--------------------------------|---------------|-------------|
| | 5/32" - 5/16" | 3/8" - 1/2" |
| | 4mm - 8mm | 10mm - 22mm |
| Air | | |
| - 4°F | 230 psi | 150 psi |
| - 20°C | (16 Bar) | (10 Bar) |
| Potable Liquids and Air | | |
| +33°F | 230 psi | 150 psi |
| +1°C | (16 Bar) | (10 Bar) |
| +68°F | 230 psi | 150 psi |
| +20°C | (16 Bar) | (10 Bar) |
| +150°F | 150 psi | 100 psi |
| +65°C | (10 Bar) | (7 Bar) |

Also suitable for vacuum

For Polypropylene Working Pressure and Temperature Range, please refer to page 5.

Depending on the tube used, under certain conditions fittings may be used at higher pressures and temperatures. Please refer to our Technical Support Department for guidance. Note 1 Bar = 14.5 PSIG.

Tube Types

Plastic Tube - Polyethylene, nylon and polyurethane conforming to the tolerances shown below. For soft tubing or thin wall tube we recommend the use of tube inserts.

Braided Tube - Use of Tube to Hose Stems listed on page 9 is essential when using braided tube or hose. The use of clamps to retain braided tube on barbs is recommended.

Metal Tube (soft) - Brass, copper or mild steel conforming to the tolerances below.

Metal Tube (hard) - We do not recommend Super Speedfit fittings for hard metal or chrome plated tubes.

For stainless steel and other polished metal tubes we recommend the use of Superseal fittings. These are shown on page 12 of this catalog.

It is essential that outside diameters be free from score marks and that the tube be deburred before inserting the fitting.

Tube Tolerances

Super Speedfit® fittings are offered for tubes with outside diameters to the following tolerances.

| | | |
|--------------------|-----------------|-----------------|
| Size (inches) | 5/32 - 3/16 | 1/4 - 1/2 |
| Tolerance (inches) | +0.001 / -0.003 | +0.001 / -0.004 |
| Size (mm) | 4mm - 5mm | 6mm - 22mm |
| Tolerance (mm) | +0.05 / -0.07 | +0.05 / -0.10 |

Installation and System Testing

Fittings and tube should be kept clean and undamaged before use.

All tube and fittings installations must be pressure tested after installation to ensure system integrity before handing over to the final user. Refer to "How to make a connection".

Chemicals

For use with chemicals or other potentially aggressive liquids, please contact our Technical Support Department.

Super Speedfit fittings are not recommended for use with explosive gases, petroleum spirits, and other fuels or for central heating systems.

Collet Covers

Are available as additional security against removal of the tube or to provide a simple means of color coding. The cover is offered in a range of six colors. Please see page 23 of this catalog.

Food Quality

All the fittings in this catalog are produced in Food and Drug Administration (FDA) approved materials and are therefore recommended for food quality applications.

The wetted surfaces of John Guest PI, PM, SI, CI, PP and NC plastic fittings, PPSV and ASV Valves, and PE Tubing are in compliance with FDA requirements for direct contact with food as detailed in 21CFR part 177.2470 for the body and 177.2600 for the O-ring.

NSF International Standard 51 and 61.

Maximum Torque Values for Plastic Threads BSP, BSPT & NPT.

Do not overtighten plastic threaded fittings as this could cause undue stress and eventual failure. Maximum recommended torque figures are shown below.

| | Threads | | |
|----------------|-------------|-------------|-----------|
| | 1/8" - 1/4" | 3/8" - 1/2" | 3/4" |
| Maximum Torque | 1.0ft lbs | 2.2ft lbs | 2.9ft lbs |
| | 1.5Nm | 3.0Nm | 4.0Nm |

John Guest recommends that OEM customers consider replacing threaded ports with the more modern Cartridge Systems.

It is recommended that all installations are checked prior to use to determine that a seal has been made.

The maximum torque figures quoted for use with Speedfit fittings are dependent on the mating thread conforming to the relevant U.S., British or International thread standard.

Maintenance and Replacement Intervals

John Guest products generally require little maintenance but as a minimum we recommend routine visual inspection. Frequency of visual inspection will depend on severity of application and risk of failure. If after visual inspection John Guest products appear damaged, cracked, charred, discolored, heat distorted or corroded, they should be replaced. Any product that is or appears to be leaking should be replaced.

Product life is affected by the severity of the application,

the hostility of the working environment and contact with aggressive chemicals or liquids. It is therefore important that specific replacement intervals be considered by specifiers/users/customers based on previous service life or when failure could result in unacceptable downtime, damage or injury risk.

Cleaners and Sanitizing of Fittings

Our advice to customers is to use cleaners and sanitizing agents that are above pH4 and low in hypochlorite level. Acetal fittings and parts that are cleaned and/or sanitized should be rinsed immediately with copious amounts of clean, neutral tap water to remove all traces of the cleaners. Details of which products are made from acetal are shown in our catalog but generally John Guest products incorporating acetal are designated by the part number prefix PI, PM, CI, CM and RM. Polypropylene fittings offer greater resistance to aggressive chemicals than acetal fittings. Polypropylene does not have the same mechanical properties as acetal and John Guest polypropylene fittings are generally designated by the part number prefix PP, PPSV and PPSAV.

Our material suppliers recommend ECOLAB Oasis 133 as a suitable external cleaner for products manufactured by John Guest.

Responsibility of Use

While we give a warranty against defects in manufacture or materials, it is the responsibility of the user/installer to ensure that fittings and related products are suitable for their application. The installation must be carried out correctly in accordance with our recommendations, complying with recognized codes of practice and relevant national standards, and be properly maintained. Please refer to our terms and conditions of sale.

Side Load

Fittings should not be subject to excessive side loads and they should not be used as support brackets. Tubing and fittings should be adequately supported to prevent excessive side loading.

Product Selection and Installation

John Guest fittings and related products are specifically designed and manufactured by John Guest to the Technical Specifications set out in the John Guest Product Catalog. All John Guest fittings and related products should be selected, installed, used and maintained in accordance with these Technical Specifications. It is the customer's/user's responsibility to ensure that John Guest fittings and related products are suitable for their intended applications, and are properly installed and maintained and are used in accordance with the Technical Specifications. It is also the customer's/user's responsibility to provide its customers with any relevant technical information about John Guest products it supplies them.

The company has a policy of continuous research and development and reserves the right to amend without notice the specification and design of all products illustrated in this catalog. John Guest reserves the right to change the color and shape of products. Photographs are for illustration purposes only.

Subject to our Terms and Conditions of Sale shown on page 25.

John Guest USA, Inc. is not responsible for misprints or typographical errors.

TERMS AND CONDITIONS

The products described in this document are hereby offered for sale to be established by John Guest (USA) Inc., its subsidiaries and its authorized distributors. This offer and its acceptance by any customer (the "Buyer") shall be governed by all of the following Terms and Conditions. Buyer's order for any item described in this document, when communicated to John Guest (USA) Inc., its subsidiaries or an authorized distributor (the "Seller") verbally or in writing, shall constitute acceptance of this offer.

1. Terms and Conditions of Sale. All descriptions, quotations, proposals, offers, acknowledgments, acceptances and sales of the Seller's products are subject to and shall be governed exclusively by the terms and conditions stated herein (the "Agreement"). The Buyer's acceptance of any offer to sell is limited to the terms and conditions in the Agreement. Any terms or conditions in addition to, or inconsistent with those stated in the Agreement, proposed by the Buyer in any acceptance of an offer by the Seller, are hereby objected to. No such additional, different or inconsistent terms and conditions shall become part of the agreement between the Buyer and the Seller unless expressly accepted in writing by the Seller. The Seller's acceptance of any offer to purchase by the Buyer is expressly conditioned upon the Buyer's assent to all the terms and conditions in this Agreement, irrespective of any terms in addition to, or inconsistent with those contained in the Buyer's offer. Acceptance of the Seller's products shall in all events constitute such assent.

2. Documents. Unless provided otherwise in the Agreement, all catalog descriptions, illustrations, drawings and literature or independently submitted estimates of performance, weights and measurements or other specifications provided by the Seller are mere approximations and the Seller reserves the right to alter or amend the same at any time. The Seller reserves the right to correct clerical or technical errors in the contract documents. The Buyer shall furnish with his order all necessary specifications and information. The Seller takes no responsibility for goods manufactured, priced or delivered not in accordance with the order or the specifications unless the Buyer's order and specifications are clear and correct.

3. Prices. Unless otherwise provided, all prices contained in our quotations and written acceptances are ex-works and do not include the cost of packing. All orders are accepted on the condition that all such prices are subject to revision by the Seller at any time before the goods are dispatched to take account of any price change. In the event that the Buyer does not place the entire order quoted by the Seller for the Buyer, the Seller reserves the right to revise its prices. The Seller also reserves the right to revise its prices if the Buyer modifies the specification or quantity of the goods, or the delivery requirements after the order has been accepted by the Seller.

4. Advice. All advice given in connection with the Seller's goods is provided without charge to the Buyer. Any advice and assistance given by the Seller to the Buyer is given at the Buyer's risk and the Seller shall not be liable for any loss, damage or claim arising therefrom.

5. Payment. (a) Unless otherwise provided in the Agreement, or explicitly agreed upon in writing by the Seller, payment is due in full 30 days from date of shipment of the items purchased herein under. (b) In the case of an installment contract, deliveries or parts, payment for each installment delivery or part shall be made under sub-clause (a) as if the same constituted a separate agreement. (c) Amounts not timely paid shall bear interest at the rate of 2-1/2% above the Seller's bank's prime rate from time to time in force. (d) In the event that the Buyer fails within one calendar month of the date for payment to effect any payment which may be due under the Agreement or any agreement with the Seller, or if the Buyer commits any breach of the Agreement, or if the Buyer becomes insolvent or commits any act of bankruptcy or contemplation of liquidation, the Seller will be entitled, without prejudice to the Seller's other rights, to terminate the Agreement or any unfulfilled part thereof, or at the Seller's option to make partial deliveries.

6. Modifications and Cancellations. This Agreement is not subject to oral modification or cancellation. A Buyer's request for modification or cancellation will not be incorporated into the Agreement unless the request is accepted by the Seller in a writing that amends the Agreement. Acceptance of any such requested modification or cancellation shall be at the Seller's discretion and shall be upon such terms and conditions as the Seller may require.

7. Handling Charge. Goods supplied in accordance with the Buyer's order may later be returned to the Seller at the Seller's discretion provided the return is pre-authorized, in writing and the merchandise is unused, in original packages, unaltered, clean and no older than 60 days from the date of shipment by the Seller. The Buyer will be required to pay to the Seller a handling charge of 15% of the purchase price of the returned goods. A copy of the original invoice for the merchandise must accompany all returns.

8. Delivery. (a) Any delivery dates quoted are approximate only and the Seller shall have no liability for any delays in delivery. (b) Unless provided otherwise, delivery of the goods shall be made when the Seller has notified the Buyer that the goods are ready for dispatch. Regardless of the method of delivery, delivery shall be made F.O.B. Seller's plant, where the risk of loss shall thereupon pass to the Buyer upon the Seller's delivery to a carrier. Notwithstanding that the Seller's prices are ex-works, the Seller is prepared by special contract to procure carriage or freight and insurance on behalf of the Buyer and at Buyer's cost in which event the Seller shall be under no liability for damage in transit or loss or damage to the goods beyond the point at which the Seller contracts to deliver the same. (c) Seller will not make drop shipments.

9. Inspection and Rejection. (a) The following provisions shall apply in relation to all deliveries of goods: the Seller shall not be held liable for any claims of damage in transit, shortage of delivery or loss of goods, unless in the case of shortage of delivery, a separate notice in writing is given to the carrier concerned and to the Seller within three (3) days of the receipt of the goods, followed by a complete claim in writing within five (5) days of receipt of the goods and in the case of loss of goods, a separate notice in writing is given to the carrier concerned and to the Seller and a complete claim in writing made within thirty (30) days of the date of consignment. The Buyer must inspect the goods on arrival from the carrier, however, where goods are accepted from the carrier concerned without being inspected, the delivery book of the carrier concerned must be signed "not examined". The Seller shall have the right to inspect the goods at the Buyer's premises in respect to any such claims made by the Buyer and the Buyer shall retain such goods until the Seller has inspected such goods or until the Seller has notified the Buyer that the Seller does not wish to inspect such goods. Any breach of these conditions in this provision shall serve as a waiver to any claim brought by the buyer. (b) Without prejudice to the Seller's other rights, should the Buyer fail for any reason to send the Seller forwarding instructions within ninety (90) days after the date of the Seller's notification that the goods are ready for dispatch or to accept delivery of the goods, the Seller shall be entitled at the Buyer's risk and expense to store the goods and/or to procure or effect storage of the goods elsewhere. Goods so stored shall be paid for as if they had been dispatched and/or accepted.

10. Special Tooling. Where it is necessary for the Seller to manufacture or to purchase special tooling, including without limitation tools, dies, jigs, mandrills, fixtures, molds, and patterns in order to execute a contract, the Buyer will be charged with a proportion of the cost of such special tools. Such special tooling shall be and remain the Seller's property notwithstanding payment of any charges made by the Buyer. In no event will the Buyer acquire any interest in apparatus belonging to the Seller which is utilized in the manufacture of the items sold hereunder, even if such apparatus has been specially converted or adopted for such manufacture and notwithstanding any charges paid by the Buyer therefore. Unless otherwise agreed, the Seller shall have the right to alter, discard or otherwise dispose of any special tooling or other property in its sole discretion at any time.

11. Test and Performance. (a) The Seller's goods are, where practicable, submitted to the Seller's standard test before delivery. If special tests are required, these shall be made at the Seller's premises unless otherwise agreed, and will be subject to an extra charge. (b) The Seller accepts no liability for failure to attain any performance figures quoted by the Seller unless the Seller specifically has guaranteed them with an agreed sum as liquidation damages and the Buyer has suffered actual loss by reason of the failure to attain the figures quoted. (c) Any particulars of weights and measurements, power and consumption, power output or performance relating to the goods and like matters furnished by the Seller to the Buyer in the Seller's catalogs, literature or otherwise, are approximate and are intended only to present a general idea of the goods to be supplied and unless previously agreed specifically in writing shall not form part of the Agreement.

12. Buyer's Property. Any designs, tools, patterns, materials, drawings, confidential information or equipment furnished to the Seller by the Buyer, or any other items

which become the Buyer's property, may be considered obsolete and may be destroyed by the Seller after two (2) consecutive years have elapsed without the Buyer placing an order for the items which are manufactured using such property. The Seller shall not be responsible for any loss or damage to such property while it is in the Seller's possession or control.

13. Taxes. Unless otherwise indicated, all prices and charges are exclusive of excise, sales, use, property, occupational or like taxes which may be imposed by any taxing authority upon the manufacture, sale or delivery of the items sold hereunder. If any such taxes must be paid by the Seller, or if the Seller is liable for the collection of such tax, the amount thereof shall be in addition to the amounts for the item sold. The Buyer agrees to pay all such taxes or to reimburse the Seller therefore upon receipt of its invoice. If the Buyer claims exemption from any sales, use or other tax imposed by any taxing authority, the Buyer shall promptly indemnify and hold the Seller harmless from and against any such tax, as well as any interest or penalties thereon which may be assessed if the items are held to be taxable.

14. Warranty. (a) The Seller warrants that the items sold hereunder shall be free from defects in material or workmanship at the time of shipment by the Seller. The Seller warrants that if within 12 months of delivery of the goods to the Buyer the Buyer returns immediately to the Seller's premises any of the said goods which the Buyer believes to be defective, carrier paid, properly packed and clearly marked with the Buyer's full name and address and any other information such as serial numbers which may be necessary to enable the goods to be identified, together with a complete description of the respects in which it is alleged that the goods are defective, they will be repaired or new goods will be supplied in exchange and the goods so repaired or such new goods will be delivered to the Buyer free of charge at the Seller's premises provided that the foregoing warranty shall only be applicable if upon demand by the Seller, the Buyer proves to the Seller's satisfaction: (i) that the defect was due solely to defective workmanship; (ii) that no alterations or repairs have been made to the goods except with the Seller's written consent; (iii) that the defect was not caused by any act of the Buyer or its agents; and (iv) that the defect was not caused by any matter beyond the reasonable control of the Seller, including, without limitation, accident or normal wear and tear. The benefit of this warranty shall not be assignable by the Buyer. (b) The warranty contained in sub-paragraph (a) above does not extend to any goods not manufactured by the Seller even though supplied by the Seller nor does it extend to any second-hand or reconditioned goods nor does it extend to components manufactured by the Seller but installed, attached or welded by the Buyer or his customer on equipment not manufactured by the Seller. Goods not manufactured by the Seller carry only the warranty (if any) of their makers and the Buyer is entitled to the benefit thereof only so far as the Seller has the power to transfer it. (c) This warranty comprises the sole and entire warranty pertaining to items provided hereunder; the Seller makes no other warranty, guarantee, or representation of any kind whatsoever. All other warranties, including but not limited to, merchantability and fitness for purpose, whether expressed or implied, or arising by operation of law, trade usage, or course of dealing are hereby disclaimed. (d) Notwithstanding the foregoing, there are no warranties whatsoever on items built or acquired wholly or partially to the Buyer's designs or specifications.

15. Limited Remedy. The Seller's liability arising from or in any way connected with the items sold or this Agreement shall be limited exclusively to repair or replacement of the items sold. In no event shall the Seller be liable to the Buyer or any 3rd party for any incidental, consequential or special damages of any kind or nature whatsoever, including but not limited to lost profits arising from or in any way connected with this agreement or items sold hereunder, whether alleged to arise from breach of contract, express or implied warranty, or in tort, including without limitation, negligence, failure to warn or strict liability.

16. Indemnity for Infringement of Intellectual Property Rights. (a) The Buyer shall defend and indemnify the Seller against all actions, claims, demands, penalties and costs by 3rd parties in tort, or for infringement, or alleged infringement, of patents, trademarks, copyrights, trade dress, trade secret or other rights of any 3rd party resulting from the goods manufactured in accordance with the Buyer's specifications or based on any information provided by the Buyer. The Buyer will defend any action against the Seller for title, patent, trademark, copyright infringement, or other claimed by a 3rd party at the Buyer's sole cost and expense. (b) The Seller shall have no liability for infringement of any patents, trademarks, copyrights, trade dress, trade secrets or similar rights except as provided in this

provision. The Seller will defend and indemnify the Buyer against allegations of infringement of US patents, US trademarks, copyrights, trade dress and trade secrets ("Intellectual Property Rights"). The Seller will defend at its expense and will pay the cost of any settlement or damages awarded in an action brought against the Buyer based on an allegation that an item sold pursuant to this contract infringes the Intellectual Property Rights of a 3rd party. The Seller's obligation to defend and indemnify the Buyer is contingent on the Buyer notifying the Seller within 10 days after sole control over the defense of any allegations or actions, including all negotiations for settlement or compromise. If an item sold hereunder is subject to a claim that it infringes the Intellectual Property Rights of a 3rd party, the Seller may, at its sole expense and option, procure for the Buyer the right to continue using said item, replace or modify said item so as to make it non-infringing, or offer to accept return of said item and return the purchase price less a reasonable allowance for depreciation. Notwithstanding the foregoing, the Seller shall have no liability for claims of infringement based on information provided by Buyer, or directed to items delivered hereunder for which the designs are specified in combination or use in a system of any item sold hereunder. The foregoing in this provision shall constitute the Seller's sole and exclusive liability and the Buyer's sole and exclusive remedy for infringement of Intellectual Property Rights.

17. Lien. In addition to any right of lien to which the Seller may by law be entitled, the Seller shall have a general lien on all goods of the Buyer in the Seller's possession (although such goods or some of them may have been paid for) for the unpaid price of any other goods sold and delivered to the Buyer by the Seller under the same or other contracts.

18. Waiver. The Seller's rights shall not be affected or restricted by any indulgence or forbearance granted to the Buyer. No waiver by the Seller of any breach shall operate as a waiver of any later breach.

19. Force Majeure. The Seller shall be excused from performing any of its obligations under this Agreement which are prevented or delayed by any occurrence not within the reasonable control of the Seller, including but not limited to, accidents, acts of God, destruction or damage to the goods or the Seller's manufacturing plant, delays or failures in delivery of carriers or suppliers, shortages of materials, strikes or other labor matters, floods, earthquakes, fire, riots, explosions, or any regulations, rules, ordinances or orders of any governmental authority, federal, state or local, whether such cause exists at the date of the order or not.

20. Buyer's Representation of Solvency. The Buyer hereby represents that as of the signing of this Agreement it was not insolvent within the meaning of the Uniform Commercial Code or the Bankruptcy Laws of the United States.

21. Assignment and Delegation. The rights and obligations of the parties under this Agreement may not be assigned or delegated, except on the express written consent of the other party to the assignment or delegation.

22. Integration. The rights and obligations of the parties and the terms and conditions set forth herein, together with any amendments, modifications and any different terms and conditions expressly accepted by the Seller in writing, shall constitute a complete and exclusive statement of the terms of this Agreement. This Agreement supersedes not only all prior agreements, but also oral agreements made contemporaneously with the execution of this Agreement. All such materials may not be used to supplement, explain, or contradict the terms of this Agreement.

23. Severability. If any of these conditions or any part thereof purports to exclude or restrict or limit any liability and such exclusion or restriction or limitation is prohibited or rendered void or unenforceable by any legislation to which it is subject, or is itself prohibited or rendered void or unenforceable by any legislation to which it is subject, then the exclusion restriction or limitation on the condition or part thereof in question shall be so prohibited or rendered void or unenforceable and the validity or enforceability of any other part of these provisions shall not thereby be affected.

24. Governing Law/Limitation on Actions. The terms, conditions, rights, and obligations under this Agreement shall be construed under the laws of the State of New York, without regard to principles of conflicts of laws. No actions arising out of the sale of the items sold hereunder or this Agreement may be brought by the Buyer more than two (2) years after such cause of action accrues. Rev. July 2009

John Guest Companies



John Guest USA, a world-leading supplier of Fluid System Products, located in Northern New Jersey, is part of a progressive and professional organization with multiple locations worldwide. For over 30 years the John Guest organization has built its reputation by providing high quality products and high levels of customer service.

Through a strong commitment to growth and innovation, John Guest USA will continue to serve its community and customers well into the future.

John Guest USA, Inc. distributes its products across North, Central, and South America, the Caribbean, and the US Virgin Islands.



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