

## PNEUMATICS FITTINGS

Super Speedfit Push-in fittings have been specially designed for miniature pneumatics applications. They provide a fast and secure way of connecting tubes and offer considerable advantages over conventional fittings.

Complex tubing systems can be assembled more rapidly than with traditional methods and because Super Speedfit fittings are easy to disconnect, fault finding and maintenance become much easier operations.

They are particularly useful for development, testing or training programmes where systems may need to be constantly reconfigured.

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

**See easy to make a connection  
on page 09 - 10.**

**Technical Specification shown  
on pages 61 - 62.**



# **Speedfit® Air Products**

## **USER BENEFITS**

- Specially designed for pneumatics
- Suitable for plastic and soft metal tubes
- Grips before it seals
- Quick disconnection and reusable
- No tools needed
- Quality Manufacturer - ISO 9001 listed since 1989
- Superior flow characteristics
- Collet cover prevents accidental disconnection and allows colour coding
- Fittings with prefix PM or PI are produced exclusively in Food and Drug Administration approved materials and are therefore recommended for food quality applications



## Pneumatics Metric Size Fittings

### *SuperThread*

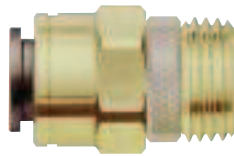
Selected metric size items have SuperThread, a unique thread seal developed by John Guest to enable male adaptors to be used with a variety of female thread forms. John Guest fittings with brass bodies incorporating the SuperThread can be used with BSP (Parallel), BSPT (Taper), NPTF, PF and PT metal thread forms.

The special Polyurethane seal feature means no sealant need be applied to make an airtight joint. There is no danger of tape entering the system.

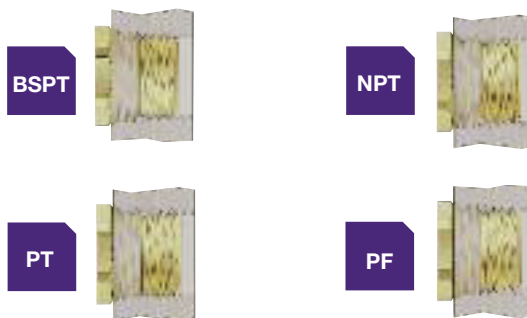
Fittings with SuperThread also have countersunk throughbores to provide superior flow characteristics.

The design allows for a smaller compact body and reduced hexagon size.

**Maximum Torque Values for SuperThread  
are shown on page 62.**



***SuperThread* fits all  
these metal thread forms.**



### STRAIGHT ADAPTOR / SUPERTHREAD



With integral seal.  
Thread can be used  
with BSP, BSPT, NPT,  
PF and PT.

PART NO.	TUBE OD		SUPER THREAD
RM010411	4	x	1/8
RM010412	4	x	1/4
RM010511	5	x	1/8
RM010512	5	x	1/4
RM010611	6	x	1/8
RM010612	6	x	1/4
RM010811	8	x	1/8
RM010812	8	x	1/4
RM010813	8	x	3/8
RM011012	10	x	1/4
RM011013	10	x	3/8
RM011014	10	x	1/2
RM011213	12	x	3/8
RM011214	12	x	1/2

### STRAIGHT ADAPTOR / METRIC THREAD



PART NO.	TUBE OD		METRIC THREAD
RM0104M5	4	x	M5
RM0105M5	5	x	M5
RM0106M5	6	x	M5

### BRASS STRAIGHT ADAPTOR / BSP THREAD



PART NO.	TUBE OD		THREAD BSP
MM010411	4	x	1/8
MM010611	6	x	1/8
MM010612	6	x	1/4
MM010812	8	x	1/4

### STRAIGHT ADAPTOR / BSP THREAD



PART NO.	TUBE OD	THREAD BSP
PM010411E	4 x	1/8
PM010412E	4 x	1/4
PM010511E	5 x	1/8
PM010512E	5 x	1/4
PM010611E	6 x	1/8
PM010612E	6 x	1/4
PM010811E	8 x	1/8
PM010812E	8 x	1/4
PM010813E	8 x	3/8
PM011012E	10 x	1/4
PM011013E	10 x	3/8
PM011014E	10 x	1/2
PM011213E	12 x	3/8
PM011214E	12 x	1/2

### STRAIGHT ADAPTOR / BSPT THREAD



PART NO.	TUBE OD	THREAD BSPT
PM010401E	4 x	1/8
PM010402E	4 x	1/4
PM010501E	5 x	1/8
PM010502E	5 x	1/4
PM010601E	6 x	1/8
PM010602E	6 x	1/4
PM010801E	8 x	1/8
PM010802E	8 x	1/4
PM010803E	8 x	3/8
PM011002E	10 x	1/4
PM011003E	10 x	3/8
PM011004E	10 x	1/2
PM011203E	12 x	3/8
PM011204E	12 x	1/2

PART NO.	TUBE OD	THREAD NPTF
PM010622E	6 x	1/4

### EQUAL STRAIGHT CONNECTOR



PART NO.	TUBE OD
RM0404E	4
RM0405E	5
RM0406E	6
RM0408E	8
RM0410E	10
RM0412E	12

### EQUAL STRAIGHT CONNECTOR



PART NO.	TUBE OD
PM0404E	4
PM0405E	5
PM0406E	6
PM0408E	8
PM0410E	10
PM0412E	12

### REDUCING STRAIGHT CONNECTOR



PART NO.	TUBE OD	TUBE OD
PM200604E	6	4
PM200804E	8	4
PM200806E	8	6
PM201004E	10	4
PM201006E	10	6
PM201008E	10	8
PM201208E	12	8
PM201210E	12	10

### EQUAL ELBOW



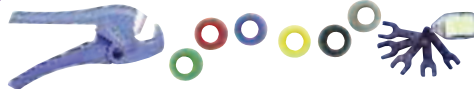
PART NO.	TUBE OD
RM0304E	4
RM0305E	5
RM0306E	6
RM0308E	8
RM0310E	10
RM0312E	12

### EQUAL ELBOW



PART NO.	TUBE OD
PM0304E	4
PM0305E	5
PM0306E	6
PM0308E	8
PM0310E	10
PM0312E	12

For accessories see page 57 - 58.



## REDUCING ELBOW CONNECTOR



PART NO.	TUBE OD	TUBE OD
PM210604E	6	4
PM210804E	8	4
PM210806E	8	6
PM211004E	10	4
PM211006E	10	6
PM211008E	10	8
PM211208E	12	8
PM211210E	12	10

## STEM ELBOW



PART NO.	TUBE OD	STEM OD
PM220404E	4	4
PM220505E	5	5
PM220606E	6	6
PM220808E	8	8
PM221010E	10	10
PM221212E	12	12

## SWIVEL ELBOW / SUPERTHREAD



With integral seal.

Thread can be used with BSP, BSPT, NPT, PF and PT.

PART NO.	TUBE OD	SUPER THREAD
RM090411	4	x 1/8
RM090412	4	x 1/4
RM090611	6	x 1/8
RM090612	6	x 1/4
RM090811	8	x 1/8
RM090812	8	x 1/4
RM091012	10	x 1/4
RM091013	10	x 3/8
RM091213	12	x 3/8
RM091214	12	x 1/2

## SWIVEL ELBOW / METRIC THREAD



PART NO.	TUBE OD	METRIC THREAD
RM0904M5	4	x M5
RM0906M5	6	x M5

**SWIVEL ELBOW / BSP THREAD**



PART NO.	TUBE OD	THREAD BSP
MM090411	4 x	1/8
MM090611	6 x	1/8
MM090612	6 x	1/4
MM090812	8 x	1/4

**SWIVEL ELBOW / BSP THREAD**



PART NO.	STEM OD	THREAD BSP
PM090411E	4 x	1/8
PM090412E	4 x	1/4
PM090511E	5 x	1/8
PM090512E	5 x	1/4
PM090611E	6 x	1/8
PM090612E	6 x	1/4
PM090811E	8 x	1/8
PM090812E	8 x	1/4
PM090813E	8 x	3/8
PM091012E	10 x	1/4
PM091013E	10 x	3/8
PM091014E	10 x	1/2
PM091213E	12 x	3/8
PM091214E	12 x	1/2

Swivel Elbows/Tees can be made up by using an Equal Elbow (page 30), Equal Tee (page 33) and the appropriate Stem Adaptor (pages 37 and 38).



For sizes  
15mm - 28mm  
see pages 13 - 19



**SWIVEL ELBOW / BSPT THREAD**



PART NO.	TUBE OD	THREAD BSPT
PM090401E	4	x 1/8
PM090402E	4	x 1/4
PM090501E	5	x 1/8
PM090502E	5	x 1/4
PM090601E	6	x 1/8
PM090602E	6	x 1/4
PM090801E	8	x 1/8
PM090802E	8	x 1/4
PM090803E	8	x 3/8
PM091002E	10	x 1/4
PM091003E	10	x 3/8
PM091004E	10	x 1/2
PM091203E	12	x 3/8
PM091204E	12	x 1/2

**EQUAL TEE**



PART NO.	TUBE OD
RM0204E	4
RM0205E	5
RM0206E	6
RM0208E	8
RM0210E	10
RM0212E	12

**EQUAL TEE**



PART NO.	TUBE OD
PM0204E	4
PM0205E	5
PM0206E	6
PM0208E	8
PM0210E	10
PM0212E	12

**SWIVEL TEE / CENTRE LEG BSP THREAD**



PART NO.	TUBE OD	THREAD BSP
PM100411E	4 x	1/8
PM100412E	4 x	1/4
PM100511E	5 x	1/8
PM100512E	5 x	1/4
PM100611E	6 x	1/8
PM100612E	6 x	1/4
PM100811E	8 x	1/8
PM100812E	8 x	1/4
PM100813E	8 x	3/8
PM101012E	10 x	1/4
PM101013E	10 x	3/8
PM101014E	10 x	1/2
PM101213E	12 x	3/8
PM101214E	12 x	1/2

**SWIVEL TEE / CENTRE LEG BSPT THREAD**



PART NO.	TUBE OD	THREAD BSPT
PM100401E	4 x	1/8
PM100402E	4 x	1/4
PM100501E	5 x	1/8
PM100502E	5 x	1/4
PM100601E	6 x	1/8
PM100602E	6 x	1/4
PM100801E	8 x	1/8
PM100802E	8 x	1/4
PM100803E	8 x	3/8
PM101002E	10 x	1/4
PM101003E	10 x	3/8
PM101004E	10 x	1/2
PM101203E	12 x	3/8
PM101204E	12 x	1/2

Swivel Elbows/Tees can be made up by using an Equal Elbow (page 30), Equal Tee (page 33) and the appropriate Stem Adaptor (pages 37 and 38).

For accessories see page 57 - 58.



### SWIVEL MALE RUN TEE / BSP THREAD



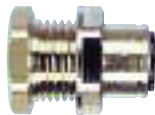
PART NO.	TUBE OD	THREAD BSP
PM110411E	4 x	1/8
PM110412E	4 x	1/4
PM110511E	5 x	1/8
PM110512E	5 x	1/4
PM110611E	6 x	1/8
PM110612E	6 x	1/4
PM110811E	8 x	1/8
PM110812E	8 x	1/4
PM110813E	8 x	3/8
PM111012E	10 x	1/4
PM111013E	10 x	3/8
PM111014E	10 x	1/2
PM111213E	12 x	3/8
PM111214E	12 x	1/2

### SWIVEL MALE RUN TEE / BSPT THREAD



PART NO.	TUBE OD	THREAD BSPT
PM110401E	4 x	1/8
PM110402E	4 x	1/4
PM110501E	5 x	1/8
PM110502E	5 x	1/4
PM110601E	6 x	1/8
PM110602E	6 x	1/4
PM110801E	8 x	1/8
PM110802E	8 x	1/4
PM110803E	8 x	3/8
PM111002E	10 x	1/4
PM111003E	10 x	3/8
PM111004E	10 x	1/2
PM111203E	12 x	3/8
PM111204E	12 x	1/2

### BRASS BULKHEAD CONNECTOR



PART NO.	TUBE OD
RM070612	6
RM070812	8

### BULKHEAD CONNECTOR



PART NO.	TUBE OD
RM1206	6
RM1208	8

### BULKHEAD CONNECTOR



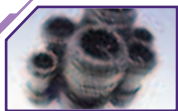
PART NO.	TUBE OD
PM1204E	4
PM1205E	5
PM1206E	6
PM1208E	8
PM1210E	10
PM1212E	12

### REDUCER



PART NO.	STEM OD	TUBE OD
PM060504E	5	4
PM060604E	6	4
PM060605E	6	5
PM060804E	8	4
PM060805E	8	5
PM060806E	8	6
PM061006E	10	6
PM061008E	10	8
PM061208E	12	8
PM061210E	12	10

Swivel Elbows/Tees can be made up by using an Equal Elbow (page 30), Equal Tee (page 33) and the appropriate Stem Adaptor (pages 37 and 38).



For sizes  
15mm - 28mm  
see pages 13 - 19

## ENLARGER



PART NO.	TUBE OD	STEM OD
PM130405E	5 x	4

## PLUG



4mm - 12mm sizes in red.  
8mm size also available in black Part No. PM0808E

PART NO.	STEM OD
PM0804R	4
PM0805R	5
PM0806R	6
PM0808R	8
PM0810R	10
PM0812R	12

## STEM ADAPTOR / SUPERTHREAD



PART NO.	TUBE OD	SUPER THREAD
RM050612	6 x	1/4
RM050812	8 x	1/4

With integral seal.

Thread can be used with BSP, BSPT, NPT, PF and PT.

## STEM ADAPTOR / METRIC THREAD



PART NO.	TUBE OD	METRIC THREAD
RM0504M5	4 x	M5

**STEM ADAPTOR / BSP THREAD**



PART NO.	STEM OD	THREAD BSP
PM050411E	4 x	1/8
PM050412E	4 x	1/4
PM050511E	5 x	1/8
PM050512E	5 x	1/4
PM050611E	6 x	1/8
PM050612E	6 x	1/4
PM050811E	8 x	1/8
PM050812E	8 x	1/4
PM050813E	8 x	3/8
PM051012E	10 x	1/4
PM051013E	10 x	3/8
PM051014E	10 x	1/2
PM051213E	12 x	3/8
PM051214E	12 x	1/2

**STEM ADAPTOR / BSPT THREAD**



PART NO.	STEM OD	THREAD BSPT
PM050401E	4 x	1/8
PM050402E	4 x	1/4
PM050501E	5 x	1/8
PM050502E	5 x	1/4
PM050601E	6 x	1/8
PM050602E	6 x	1/4
PM050801E	8 x	1/8
PM050802E	8 x	1/4
PM050803E	8 x	3/8
PM051002E	10 x	1/4
PM051003E	10 x	3/8
PM051004E	10 x	1/2
PM051203E	12 x	3/8
PM051204E	12 x	1/2

For accessories see page 57 - 58.



### TWO-WAY DIVIDER



PART NO.	TUBE OD
RM2306E	6
RM2308E	8
RM2312E	12

### TUBE TO HOSE STEM



PART NO.	STEM OD	HOSE ID
PM250604E	6	- 4
PM250806E	8	- 6
PM251008E	10	- 8

### FEMALE ADAPTOR



PART NO.	TUBE OD	THREAD
*PM450411E	4	x 1/8 BSP
*PM450611E	6	x 1/8 BSP
*PM450612E	6	x 1/4 BSP
*PM450812E	8	x 1/4 BSP
*PM450813E	8	x 3/8 BSP
*PM451015FE	10	x 5/8 BSP
*PM451215FE	12	x 5/8 BSP

\*With thread seal. Other size no seal.

### OFFSET CONNECTOR

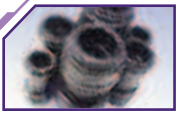


PART NO.	TUBE OD	TUBE OD
NC657	12	- 8

### TWO-WAY DIVIDER



PART NO.	TUBE OD
PM2304E	4
PM2308E	8
PM2310E	10



For sizes  
15mm - 28mm  
see pages 13 - 19



## Banjo Flow Control

Banjo Flow Controls are designed for installation directly into cylinder ports to give precise control. They regulate the speed of pneumatic cylinders and other actuators.

John Guest Controls provide a neat compact assembly which can be orientated to a suitable position for the circuit arrangement prior to tightening.

The design offers especially precise adjustment through the control needle which is captive within its housing.

Suitable for both soft metal and plastic tubing.

**Maximum Torque Values are shown on page 62.**

## Technical Specifications

**Temperature Range** 5°C - 70°C

ISO 1219-1 : 1991

**Working Pressure Range** 0.5 Bar to 10 Bar



### Materials used

Acetal Copolymer, Brass, Stainless Steel and Nitrile.

### Filtration

Air supply should be filtered to 50 micron.

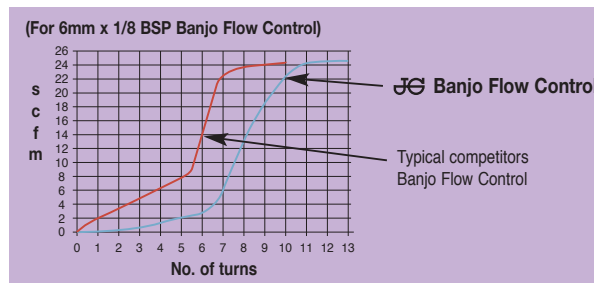
## Typical Response Curve

Response curve for Banjo Flow Control with Screwdriver slot.  
Pattern No. BFC360611E

1 scfm = 28.3 litres/min.

or 28317 cc/min.

@ 1 atmosphere discharge



# Speedfit® Air Products

## BANJO FLOW CONTROL / MANUAL ADJUSTMENT



PART NO.	TUBE OD	THREAD
CFM3604M5E	4 x	M5
CFM360411E	4 x	1/8 BSP
CFM360611E	6 x	1/8 BSP
CFM360612E	6 x	1/4 BSP
CFM360812E	8 x	1/4 BSP

## BANJO FLOW CONTROL / SCREWDRIVER SLOT



PART NO.	TUBE OD	THREAD
BFC3604M5E	4 x	M5
BFC360411E	4 x	1/8 BSP
BFC360611E	6 x	1/8 BSP
BFC360612E	6 x	1/4 BSP
BFC360812E	8 x	1/4 BSP
BFC361013E	10 x	3/8 BSP
BFC361214E	12 x	1/2 BSP

## MINIATURE BANJO FLOW CONTROL / SCREWDRIVER SLOT



PART NO.	TUBE OD	THREAD
LM1503M3E	3 x	M3

## Miniature Fittings

A new range of 4mm fittings especially designed for miniature pneumatics applications.

LM fittings are suitable for use with plastic (Polythylene, Nylon and Polyurethane) and soft metal (copper and mild steel) tubes with an outside diameter of 4mm +0.05/ - 0.07. The tube to have a smooth outer surface and be free from burrs.

Tube inserts should be used for soft or thin wall tubing or when using Polyurethane tube above 10 Bar to a maximum of 16 Bar.

M3 and M5 threaded ends are designed to be hand tightened. They should not be tightened above the maximum torque figures shown on page 62.

### STRAIGHT ADAPTOR / METRIC THREAD



PART NO.	TUBE OD		THREAD
LM0103M3	3	x	M3
LM0104M3	4	x	M3
LM0104M5	4	x	M5

### STRAIGHT ADAPTOR / SUPERTHREAD



PART NO.	TUBE OD		THREAD
LM010411	4	x	1/8

With integral seal.

Thread can be used with BSP, BSPT, NPT, PF and PT.

### EQUAL STRAIGHT CONNECTOR



PART NO.	TUBE OD
LM0403E	3
LM0404E	4

# Speedfit® Air Products

## EQUAL ELBOW



PART NO.	TUBE OD
LM0303E	3
LM0304E	4

## SWIVEL ELBOW / METRIC THREAD



PART NO.	TUBE OD		METRIC THREAD
LM0903M3	3	x	M3
LM0904M3	4	x	M3
LM0904M5	4	x	M5

## EQUAL TEE



PART NO.	TUBE OD
LM0203E	3
LM0204E	4

## TUBE INSERT



PART NO.	TUBE OD
LMTS04	4

# John Guest®

## Pneumatics Imperial Size Fittings

Produced in a grey acetal copolymer in sizes 5/32" to 1/2". They provide a fast, secure way of connecting tube using the well established Speedfit Concept.



### STRAIGHT ADAPTOR / BSPT THREAD



PART NO.	TUBE OD	THREAD BSPT
PM010401S	5/32 x	1/8
PM010402S	5/32 x	1/4
PI010601S	3/16 x	1/8
PI010602S	3/16 x	1/4
PI010801S	1/4 x	1/8
PI010802S	1/4 x	1/4
PM010801S	5/16 x	1/8
PM010802S	5/16 x	1/4
PM010803S	5/16 x	3/8
PI011202S	3/8 x	1/4
PI011203S	3/8 x	3/8
PI011603S	1/2 x	3/8
PI011604S	1/2 x	1/2

### STRAIGHT ADAPTOR / BSP THREAD



For use with spot face ports.

PART NO.	TUBE OD	THREAD BSP
PI010812S	1/4 x	1/4
PI011212S	3/8 x	1/4
PI011213S	3/8 x	3/8
PI011613S	1/2 x	3/8

### STRAIGHT ADAPTOR / BSP THREAD



With special large seal for use with chamfered face ports.

PART NO.	TUBE OD	THREAD BSP
NCPI011211S	3/8 x	1/8
NCPI011212S	3/8 x	1/4

# Speedfit® Air Products

## STRAIGHT ADAPTOR / NPTF THREAD



PART NO.	TUBE OD	THREAD NPTF
PM010421S	5/32 x	1/8
PM010422S	5/32 x	1/4
PI010621S	3/16 x	1/8
PI010821S	1/4 x	1/8
PI010822S	1/4 x	1/4
PI010823S	1/4 x	3/8
PM010821S	5/16 x	1/8
PM010822S	5/16 x	1/4
PM010823S	5/16 x	3/8
PI011221S	3/8 x	1/8
PI011222S	3/8 x	1/4
PI011223S	3/8 x	3/8
PI011224S	3/8 x	1/2
PI011623S	1/2 x	3/8
PI011624S	1/2 x	1/2
PI012026S	5/8 x	3/4

## EQUAL STRAIGHT CONNECTOR



PART NO.	TUBE OD
PM0404S	5/32
PI0406S	3/16
PI0408S	1/4
PM0408S	5/16
PI0412S	3/8
PI0416S	1/2

## REDUCING STRAIGHT CONNECTOR



PART NO.	TUBE OD	TUBE OD
PI200806S	1/4	- 3/16
PM200804S	5/16	- 5/32
PI201006S	5/16	- 3/16
PI201008S	5/16	- 1/4
PI201206S	3/8	- 3/16
PI201208S	3/8	- 1/4
PI201210S	3/8	- 5/16
PI2016085	1/2	- 1/4
PI201610S	1/2	- 5/16
PI201612S	1/2	- 3/8

### EQUAL ELBOW



PART NO.	TUBE OD
PM0304S	5/32
PI0306S	3/16
PI0308S	1/4
PM0308S	5/16
PI0312S	3/8
PI0316S	1/2

### REDUCING ELBOW



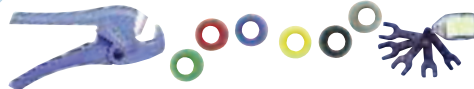
PART NO.	TUBE OD	TUBE OD
PM210804S	5/16	5/32
PI211006S	5/16	3/16
PI211008S	5/16	1/4
PI211206S	3/8	3/16
PI211208S	3/8	1/4
PI211210S	3/8	5/16
PI211610S	1/2	5/16
PI211612S	1/2	3/8

### STEM ELBOW



PART NO.	STEM OD	TUBE OD
PM220404S	5/32	5/32
PI220606S	3/16	3/16
PI220808S	1/4	1/4
PM220808S	5/16	5/16
PI221206S	3/8	3/16
PI221208S	3/8	1/4
PI221210S	3/8	5/16
PI221212S	3/8	3/8
PI221616S	1/2	1/2

For accessories see page 57 - 58.



### RIGID ELBOW / NPTF THREAD



PART NO.	TUBE OD		THREAD NPTF
PI480821S	1/4	x	1/8
PI480822S	1/4	x	1/4
PI480823S	1/4	x	3/8
PI481022S	5/16	x	1/4
PI481023S	5/16	x	3/8
PI481222S	3/8	x	1/4
PI481223S	3/8	x	3/8
PI482024S	5/8	x	1/2

### SWIVEL ELBOW / BSPT THREAD



PART NO.	TUBE OD		THREAD BSPT
PI090601S	3/16	x	1/8
PI090801S	1/4	x	1/8
PI090802S	1/4	x	1/4
PM090801S	5/16	x	1/8
PM090802S	5/16	x	1/4
PM090803S	5/16	x	3/8
PI091202S	3/8	x	1/4
PI091203S	3/8	x	3/8
PI091603S	1/2	x	3/8
PI091604S	1/2	x	1/2

### SWIVEL ELBOW / NPTF THREAD



PART NO.	TUBE OD		THREAD NPTF
PM090421S	5/32	x	1/8
PM090422S	5/32	x	1/4
PI090621S	3/16	x	1/8
PI090821S	1/4	x	1/8
PI090822S	1/4	x	1/4
PM090821S	5/16	x	1/8
PM090822S	5/16	x	1/4
PM090823S	5/16	x	3/8
PI091222S	3/8	x	1/4
PI091223S	3/8	x	3/8
PI091623S	1/2	x	3/8
PI091624S	1/2	x	1/2

Swivel Elbows/Tees can be made up by using an Equal Elbow (page 47), Equal Tee (page 49) and the appropriate Stem Adaptor (page 53).



### EQUAL TEE



PART NO.	TUBE OD
PM0204S	5/32
PI0206S	3/16
PI0208S	1/4
PM0208S	5/16
PI0212S	3/8
PI0216S	1/2

### REDUCING TEE



PART NO.	TUBE OD ENDS	TUBE OD BRANCH
PI301208S	3/8	- 1/4
PI301612S	1/2	- 3/8

### SWIVEL BRANCH TEE / BSPT THREAD



PART NO.	TUBE OD	THREAD BSPT
PI100601S	3/16	x 1/8
PI100801S	1/4	x 1/8
PI100802S	1/4	x 1/4
PM100801S	5/16	x 1/8
PM100802S	5/16	x 1/4
PM100803S	5/16	x 3/8
PI101202S	3/8	x 1/4
PI101203S	3/8	x 3/8
PI101603S	1/2	x 3/8
PI101604S	1/2	x 1/2

### SWIVEL BRANCH TEE / NPTF THREAD



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

**SWIVEL MALE RUN TEE / BSPT THREAD**



PART NO.	TUBE OD	THREAD BSPT
PI110601S	3/16	x 1/8
PI110801S	1/4	x 1/8
PI110802S	1/4	x 1/4
PM110801S	5/16	x 1/8
PM110802S	5/16	x 1/4
PM110803S	5/16	x 3/8
PI111202S	3/8	x 1/4
PI111203S	3/8	x 3/8
PI111603S	1/2	x 3/8
PI111604S	1/2	x 1/2

**SWIVEL MALE RUN TEE / NPTF THREAD**



PART NO.	TUBE OD	THREAD NPTF
PM110421S	5/32	x 1/8
PM110422S	5/32	x 1/4
PI110621S	3/16	x 1/8
PI110821S	1/4	x 1/8
PI110822S	1/4	x 1/4
PM110821S	5/16	x 1/8
PM110822S	5/16	x 1/4
PM110823S	5/16	x 3/8
PI111222S	3/8	x 1/4
PI111223S	3/8	x 3/8
PI111623S	1/2	x 3/8
PI111624S	1/2	x 1/2

Swivel Elbows/Tees can be made up by using an Equal Elbow (page 47), Equal Tee (page 49) and the appropriate Stem Adaptor (page 53).

### FEMALE ADAPTOR / BSP THREAD - FLAT END



PART NO.	TUBE OD	THREAD BSP
PI451014FS	5/16	x 1/2
PI451015FS	5/16	x 5/8
PI451213S	3/8	x 3/8
PI451214FS	3/8	x 1/2
PI451215FS	3/8	x 5/8
PI451613S	1/2	x 3/8
PI451615FS	1/2	x 5/8

### FEMALE ADAPTOR / NPTF THREAD



PART NO.	TUBE OD	THREAD NPTF
PI450822S	1/4	x 1/4
PI451222S	3/8	x 1/4

### THREE WAY DIVIDER



PART NO.	TUBE OD INLET	TUBE OD OUTLET
PI491612S	1/2	- 3/8
PI491616S	1/2	- 1/2

### TWO-WAY DIVIDER



PART NO.	TUBE OD
PI2308S	1/4
PM2308S	5/16
PI2312S	3/8
PI2316S	1/2

### UNEQUAL TWO-WAY DIVIDER



PART NO.	TUBE OD INLET	TUBE OD OUTLET
PI241210S	3/8	5/16

### BULKHEAD CONNECTOR



PART NO.	TUBE OD
PM1204S	5/32
PI1206S	3/16
PI1208S	1/4
PM1208S	5/16
PI1212S	3/8
PI1216S	1/2

### REDUCING BULKHEAD CONNECTOR



PART NO.	TUBE OD	TUBE OD
PI121208S	3/8	1/4

For accessories see page 57 - 58.



### STEM ADAPTOR / BSPT THREAD



PART NO.	STEM OD		THREAD BSPT
PI050601S	3/16	x	1/8
PI050801S	1/4	x	1/8
PI050802S	1/4	x	1/4
PM050801S	5/16	x	1/8
PM050802S	5/16	x	1/4
PM050803S	5/16	x	3/8
PI051202S	3/8	x	1/4
PI051203S	3/8	x	3/8
PI051603S	1/2	x	3/8
PI051604S	1/2	x	1/2

### STEM ADAPTOR / BSP THREAD



PART NO.	STEM OD		THREAD BSP
PM050812S	5/16	x	1/4
PI051212S	3/8	x	1/4
PI051213S	3/8	x	3/8

### STEM ADAPTOR / NPTF THREAD



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

## REDUCER



PART NO.	STEM OD	TUBE OD
PI060605S	3/16	- 5/32
PI061006S	5/16	- 3/16
PI061008S	5/16	- 1/4
PI061206S	3/8	- 3/16
PI061208S	3/8	- 1/4
PI061210S	3/8	- 5/16
PI061610S	1/2	- 5/16
PI061612S	1/2	- 3/8

## ENLARGER



PART NO.	STEM OD	TUBE OD
PI131012S	5/16	- 3/8
PI131216S	3/8	- 1/2

## OFFSET CONNECTOR



PART NO.	TUBE OD	TUBE OD
NC641	1/2	- 5/16

## CROSS



PART NO.	TUBE OD
PI4712S	3/8

### U-BEND



PART NO.	TUBE OD
PIUB12S	3/8
PIUB16S	1/2

### END STOP



PART NO.	TUBE OD
PI4608S	1/4
PI4612S	3/8

### PLUG



PART NO.	STEM OD
PM0804S	5/32
PI0806S	3/16
PI0808S	1/4
PM0808S	5/16
PI0812S	3/8
PI0816S	1/2

### TUBE TO HOSE STEM



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

### TUBE TO HOSE ELBOW



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

For accessories see page 57 - 58.

