

# Wade™

# PRODUCT DIRECTORY



Compression  
Fittings



Sistem-P Push-in  
Fittings



Compact Push-in  
Fittings



Nickel Plated Brass  
BSP Fittings



Air Valves



Silencers



Tubing



OUR GENIUS IS FITTINGS

CRANE

BUILDING SERVICES & UTILITIES

[www.wadefittings.com](http://www.wadefittings.com)



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### Front Page Picture

Project: Wylva Power Station

Specification: Wade Compression Fittings

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# Introduction

With a reputation for safety and reliability, Wade is an internationally recognised brand of compression fittings, valves and accessories.

Manufactured in the UK, the Wade range of medium pressure brass compression fittings, valves and accessories includes thousands of products designed for use on hydraulic and pneumatic applications.

Wade products are suitable for use across a wide range of industries, particularly where there is a need for the added safety provided by an engineering fitting.



## Power



## Transport



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## Medical Equipment



## Heating, Ventilation and Air Conditioning



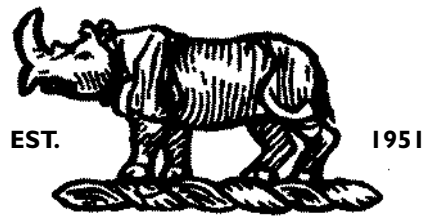
## Caravan Manufacture



## Inland Waterways & Marine Industries



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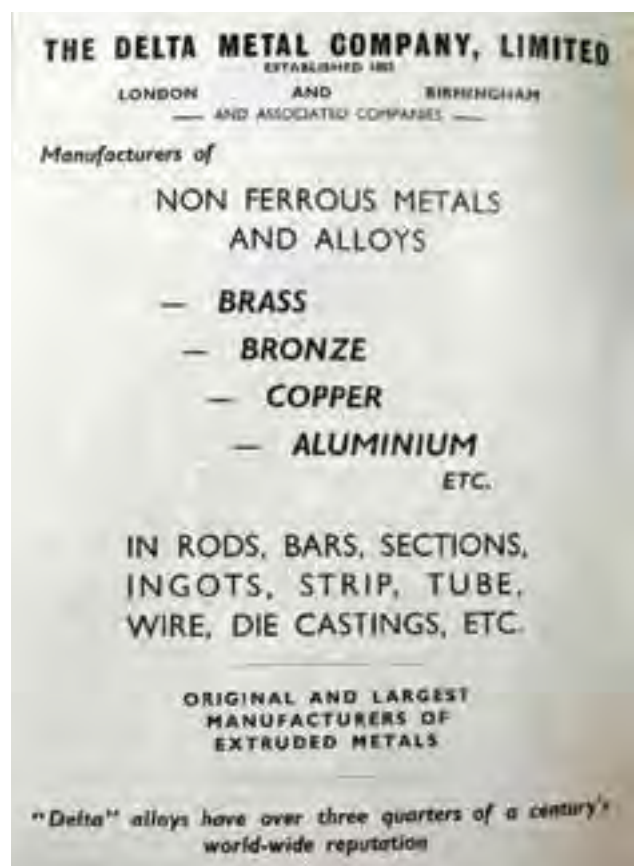


In 1951 Wade Couplings started trading in Birmingham, UK. The business quickly established itself as a quality manufacturer of brass compression fittings, a reputation which continues today.

Initially Wade Couplings developed a unique range of proven quality products designed for medium and low pressure. Over the years the range has grown and now also includes Sistem-P, Compact Push-In Fittings, Nickel Plated Brass BSP Fittings, Silencers and Safety Relief Air Valves.

In 1961 Wade Couplings was acquired by Davis and Timmins of Wood Green in London, a light engineering company and manufacturer of screws, nuts and bolts. Later that year it was acquired by the Delta Metal Company of London and Birmingham and became part of the Delta Fluid Products brand.

In 2008 Crane Co acquired Delta Fluid Products and it now sits as part of the building services brands under Crane Fluid Systems.



Date: 1960





**"I HOPE IT'S A WADE COUPLING!"**

Wade Couplings are made with a wide margin of safety, and stand up to immense pressures - as high as 5,400 lbs. per sq. inch. Because they're gasproof and leak-proof, Wade Couplings are versatile in their use, and are ideal for copper, steel or Bundy tubing. All types and sizes available including Tee, Cross, Elbow and Straight Couplings.

**FREE** Write now for any type needed for testing in your own works.

**WADE**  
couplings

STRAIGHT COUPLING up to 1 1/2" O.D.

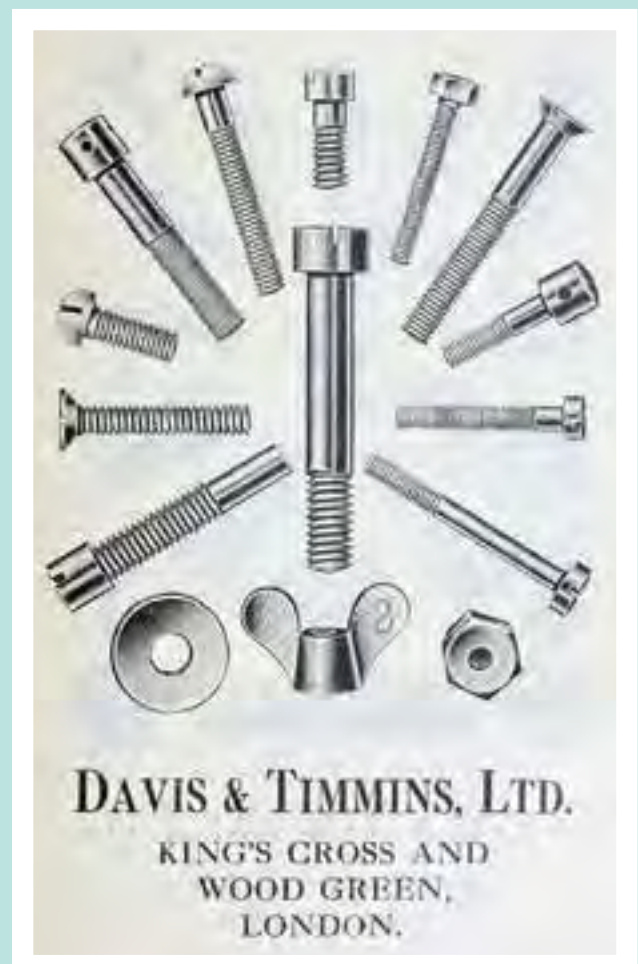
**WADE COUPLINGS LTD.**

Marian House, 37-49 East Road, London, N.1 Telephone: GL/Erkenwell 2534-5

Date: 1957



Date: 1908



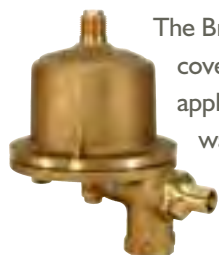
**DAVIS & TIMMINS, LTD.**

KING'S CROSS AND WOOD GREEN, LONDON.

Date: 1926

## BUILDING SERVICES

### brownall™



The Brownall range of automatic air eliminators covers slow, medium and high pressure applications. They are suitable for use with water, aviation fuel, diesel and light oils. The range is complemented by three-way vent valves, offering efficient performance and reliable service combined with potential savings in time and cost by simplifying the venting system for single/multi-boiler or calorifier installations.

### Hattersley™



For over 100 years the Hattersley brand has become synonymous with quality, reliability and excellent service. A variety of traditional valves, including ball, butterfly, check, gate and globe valves as well as a range of balancing solutions -for constant & variable flow systems are available. In addition there is a range of public health valves which includes thermal circulation valves which help to prevent Legionnaires' disease.

### NABIC™



One of the UK's leading suppliers of gunmetal safety valves, NABIC has long been recognised as the industry standard for commercial and industrial hot water applications. NABIC valves are ideal for hot water supply, heating, pump relief, bypass relief, outside installation and for use with different gases and liquids.

### CRANE

### FLUID SYSTEMS



Crane Fluid Systems has manufactured for more than 90 years a range of malleable iron and bronze pipe fittings, traditional valves, as well as a range of commissioning valves for static and variable flow systems which includes a PICV terminal unit range.



IAT Ingolstadt Armaturen is a brand of specialised water safety valves which were originally developed in Ingolstadt, Germany in the 1960s for the prevention of contamination of potable water by industrial, commercial or domestic activities.

### RHODES™



Rhodes is a market leader in the design and manufacture of sight flow indicator equipment, having produced indicators since 1951. Rhodes sight flow indicators can be found in process, petrochemical and pharmaceutical plants all over the world.

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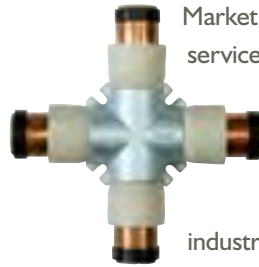


# Sister Brands

## GAS UTILITIES



Sperryn is a leading supplier of meter installation kits and emergency control valves for domestic, commercial and industrial applications. Using the latest design facilities and technologies, Sperryn regulators offer increased capacity, accuracy and lower pressure drops.



Market leader in the supply of specialist mains and service fittings, along with pipeline equipment of the highest quality, WASK is renowned in the global gas distribution market. WASK Teeset and bagging off equipment has become a standard in the UK gas industry and in many markets overseas. Latest additions to the range include a unique riser and lateral modular system which allows PE pipework to supply gas into single or multiple occupancy dwellings.

## WATER UTILITIES



PosiFlex expansion joints provide relief for piping system stress caused by thermal and mechanical vibration and/or movement, and can also be utilised to overcome problems of noise. These flexible connectors are fabricated from a wide range of rubber compounds, open or filled, single or multiple arch And are designed to accommodate the needs of individual pipe systems moving materials as diverse as fluids, foodstuffs, chemicals or crude oil.



Viking Johnson is a world leader in the manufacture and supply of couplings, flange adaptors, pipe repair and jointing solutions for the international water, wastewater, gas and industrial markets. Products are suitable for dedicated and wide tolerance application ranging from 15mm to 5000mm in diameter, and can be used to connect or repair many types of pipe material.

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# Compression Fittings



# Compression Fittings

## General Information

Wade compression fittings are of brass construction, providing strength and durability. Offering good corrosion resistance from the effects of water and heat they are suitable for use at elevated pressures and temperatures.

The simple design principle enables quick and easy installation with no requirement for special installation skills.

The fittings are resistant to attack from a variety of oils, minerals, acids and gases on hydraulic, pneumatic and instrumentation systems.

All fittings are supplied preassembled which reduces the risk of incorrect assembly.

### Quality Assured

Designed and manufactured to BS 2051 Parts 1 and 2.

### Assembly

Compression fitting assembly comprises a standard body in combination with a variety of compression nut and ring options. This provides mechanically strong and reliable joint connections suitable for a wide range of tube types of various outside diameters and wall thickness.

### Re-makeable Joints

Correctly assembled fittings create a perfect seal that can be broken and remade many times without impairing the efficiency of the joint. This enables easy maintenance and serviceability.

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# Compression Fittings

## TUBE – TUBE – ELBOW

### FEATURES & BENEFITS

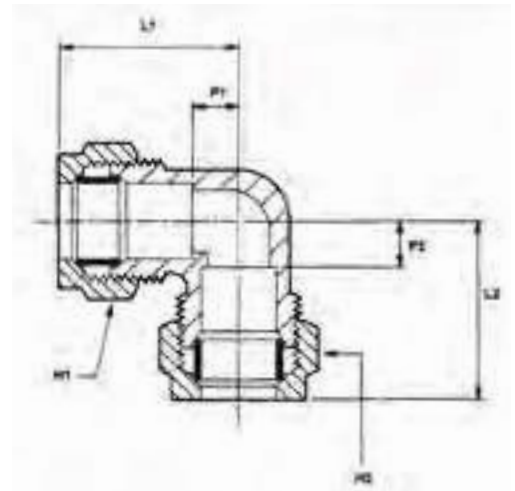
- 90° Elbow configuration
- Enables connection of 2 tubes of the same outside diameter



*Elbow-Imperial*



*Elbow-Metric*



### ELBOW-IMPERIAL

Part No	Tube OD.	Tube OD.	L1 Length	L2 Length	H1 Hex A/F	H2 A/F	P1 Abutment	P2 Abutment
2000	1/8	1/8	0.718	0.718	0.445	0.445	0.25	0.25
2001	3/16	3/16	0.718	0.718	0.445	0.445	0.25	0.25
2003	1/4	1/4	0.812	0.812	0.601	0.601	0.25	0.25
2005	5/16	5/16	0.812	0.812	0.601	0.601	0.25	0.25
2008	3/8	3/8	1.031	1.031	0.82	0.82	0.375	0.375
2011	1/2	1/2	1.093	1.093	0.92	0.92	0.312	0.312

### ELBOW-METRIC

Part No	Tube OD.	Tube OD.	L1 Length	L2 Length	H1 Hex A/F	H2 Hex A/F	P1 Abutment	P2 Abutment
ME104	4	4	19.7	19.7	10	10	8	8
ME106	6	6	23	23	12	12	9.5	9.5
ME108	8	8	25.5	25.5	14	14	10.5	10.5
ME110	10	10	28.5	28.5	19	19	13.5	13.5
ME112	12	12	31	31	22	22	15.5	15.5
ME115	15	15	40.5	40.5	24	24	20	20
ME116	16	16	40	40	27	27	20	20
ME122	22	22	50.5	50.5	36	36	28	28
ME128	28	28	52.7	52.7	41	41	27	27

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# Compression Fittings

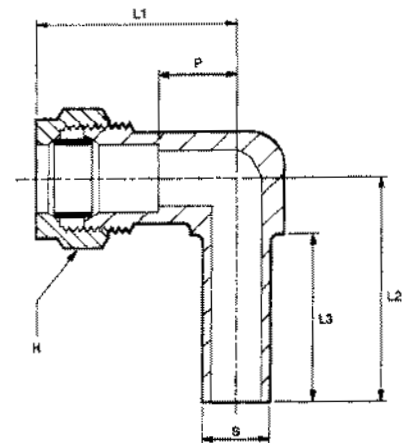
## TUBE – TUBE – ELBOW

### FEATURES & BENEFITS

- 90° Elbow configuration
- The standpipe feature allows rotational adjustment enabling the standpipe stem to be jointed with a corresponding compression end, in any alignment within a 360° turning circle



Standpipe Elbow-Imperial



### STANDPIPE ELBOW-IMPERIAL

Part No	Tube OD.	Standpipe Dia.	L1 Length	L2 Length	L3 Length	H Hex A/F	P Abutment
2103	1/4	1/4	1.062	1.187	0.906	0.601	0.5
2105	5/16	5/16	1.062	1.187	0.906	0.601	0.5

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# Compression Fittings

## TUBE – TUBE – STRAIGHT

### FEATURES & BENEFITS

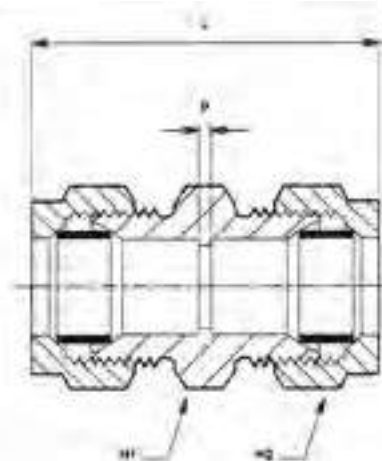
- In-line configuration
- Enables connection of 2 tubes of the same outside diameter



Equal Ended Coupling -Imperial



Equal Ended Coupling -Metric



### EQUAL ENDED COUPLING -IMPERIAL

Part No	Tube OD.	L Length	H1 Hex A/F	H2 Hex A/F	P Abutment
I040	1/8	1.093	0.445	0.445	0.156
I041	3/16	1.093	0.445	0.445	0.156
I043	1/4	1.25	0.601	0.601	0.125
I045	5/16	1.25	0.601	0.601	0.125
I048	3/8	1.406	0.71	0.82	0.093
I051	1/2	1.625	0.92	0.92	0.062
I053	5/8	1.875	1.1	1.2	0.125
I054	3/4	1.937	1.2	1.39	0.125
I057	1	2.125	1.48	1.67	0.125

### EQUAL ENDED COUPLING -METRIC

Part No	Tube OD.	L Length	H1 Hex A/F	H2 Hex A/F	P Abutment
MCI04	4	33	10	10	9
MCI05	5	37	11	12	9
MCI06	6	36	11	12	9
MCI08	8	40	13	14	10
MCI10	10	42	17	19	12
MCI12	12	43.5	19	22	12.5
MCI15	15	57.5	22	24	16.5
MCI16	16	57.5	24	27	17.5
MCI20	20	60	30	32	19
MCI22	22	64	32	36	19
MCI28	28	67.5	41	41	16

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# Compression Fittings

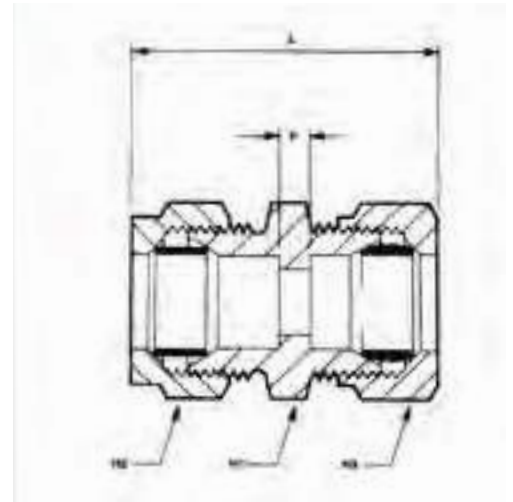
## TUBE – TUBE – STRAIGHT

### FEATURES & BENEFITS

- In-line configuration
- Enables connection of 2 tubes of different outside diameters
- Unequal (reduced) fitting which enables connection of an imperial outside tube diameter to a metric outside diameter tube
- Existing imperial pipework needs to be converted to metric



*Equal Ended Coupling -Imperial*



## IMPERIAL TO METRIC COUPLING

Part No	Tube OD.	Tube OD.	L Length (mm)	H1 Hex A/F (mm)	H2 Hex A/F	H3 Hex A/F (mm)	P Abutment (mm)
MCI06/3	1/4	6	38	17	0.601"	12	6.7
MCI10/8	3/8	10	43.5	19	0.820"	19	8.5
MCI15/8	3/8	15	50	22	0.820"	24	9.9

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# Compression Fittings

## TUBE – TUBE – STRAIGHT

### FEATURES & BENEFITS

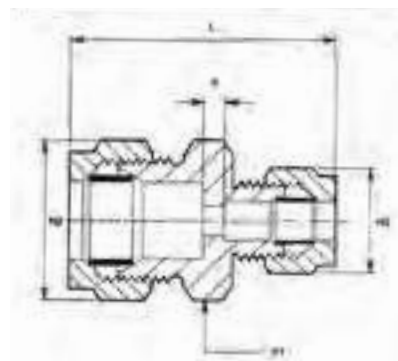
- In-line configuration
- Enables connection of 2 tubes of different outside diameters



*Unequal Coupling-Imperial*



*Unequal Coupling-Metric*



### UNEQUAL COUPLING-IMPERIAL

Part No	Tube OD.	Tube OD.	L Length	H1 Hex A/F	H2 Hex A/F	H3 Hex A/F	P Abutment
4041/0	3/16	1/8	1.125	0.445	0.445	0.445	0.156
4043/0	1/4	1/8	1.187	0.525	0.601	0.445	0.156
4043/1	1/4	3/16	1.187	0.525	0.601	0.445	0.156
4045/1	5/16	3/16	1.187	0.525	0.601	0.445	0.156
4045/3	5/16	1/4	1.25	0.601	0.601	0.601	0.125
4048/3	3/8	1/4	1.375	0.71	0.82	0.601	0.156
4048/5	3/8	5/16	1.375	0.71	0.82	0.601	0.156
4051/3	1/2	1/4	1.5	0.92	0.92	0.601	0.156
4051/5	1/2	5/16	1.5	0.92	0.92	0.601	0.156
4051/8	1/2	3/8	1.562	0.92	0.92	0.82	0.125

### UNEQUAL COUPLING-METRIC

Part No	Tube OD.	Tube OD.	L Length	H1 Hex A/F	H2 Hex A/F	H3 Hex A/F	P Abutment
MC106/104	6	4	34.5	11	12	10	9
MC108/105	8	5	37	13	14	12	10
MC108/106	8	6	38	13	14	12	10
MC110/106	10	6	39.5	17	19	12	11
MC110/108	10	8	41	17	19	14	11
MC112/108	12	8	41.5	19	22	14	11.5
MC115/108	15	8	49.5	22	24	14	14
MC115/110	15	10	50.5	22	24	19	15

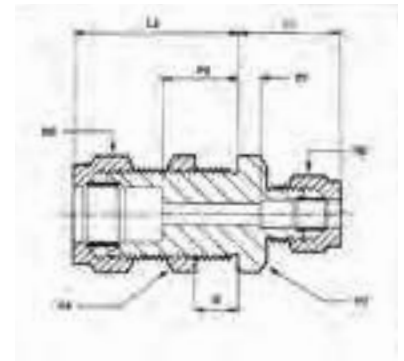
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# Compression Fittings

## TUBE – TUBE – STRAIGHT

### FEATURES & BENEFITS

- In-line configuration
- Enables connection of 2 tubes of different outside diameter
- Designed to connect tubes on either side of a bulkhead panel.
- Provided with a simple locknut mechanism the fitting can be secured and locked in place through the panel



*Unequal Bulkhead Coupling-Imperial*

### UNEQUAL BULKHEAD COUPLING-IMPERIAL

Part No	Tube OD.	Tube OD.	L1 Length	L2 Length	H1 & H2 Hex A/F	H3 Hex A/F	H4 Hex A/F	P1 Abutment	P2 Abutment	B Max Bulkhead	Bulkhead Hole Dia
4043/0L6	1/4	1/8	0.656	1.125	0.601	0.445	0.71	0.187	0.562	3/8	0.531
4045/3/L3	5/16	1/4	0.781	0.937	0.601	0.601	0.71	0.218	0.375	3/16	0.531

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# Compression Fittings

## TUBE – TUBE – STRAIGHT

### FEATURES & BENEFITS

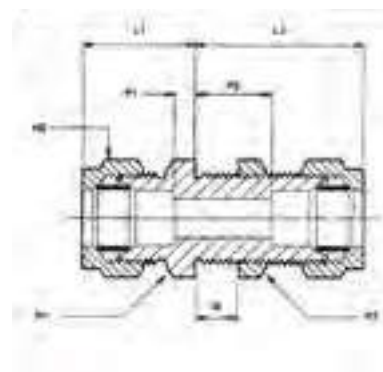
- In-line configuration
- Enables connection of 2 tubes of the same outside diameter
- Designed to connect tubes on either side of a bulkhead panel
- Provided with a simple locknut mechanism the fitting can be secured and locked in place through the panel



*Equal Ended Bulkhead Coupling-Imperial*



*Equal Ended Bulkhead Coupling-Metric*



### EQUAL ENDED BULKHEAD COUPLING-IMPERIAL

Part No	Tube OD.	L1 Length	L2 Length	H1 Hex A/F	H2 Hex A/F	H3 Hex A/F	P1 Abutment	P2 Abutment	B Max Bulkhead	Bulkhead Hole Dia
I040L4	1/8	0.625	0.906	0.445	0.445	0.525	0.156	0.437	1/4	0.391
I041L6	3/16	0.625	1.093	0.445	0.445	0.525	0.156	0.625	3/8	0.391
I043L3	1/4	0.718	0.937	0.601	0.601	0.710	0.156	0.375	3/16	0.531
I043L6	1/4	0.718	1.125	0.601	0.601	0.710	0.156	0.562	3/8	0.531
I043L10	1/4	0.718	1.375	0.601	0.601	0.710	0.156	0.812	5/8	0.531
I045L3	5/16	0.718	0.937	0.601	0.601	0.710	0.156	0.375	3/16	0.531
I045L6	5/16	0.718	1.125	0.601	0.601	0.710	0.156	0.562	3/8	0.531
I045L10	5/16	0.718	1.375	0.601	0.601	0.710	0.156	0.812	5/8	0.531
I048L6	3/8	0.960	1.218	0.820	0.820	0.820	0.187	0.562	3/8	0.672
I048L10	3/8	0.960	1.468	0.820	0.820	0.820	0.187	0.812	5/8	0.672
I048L12	3/8	0.960	1.718	0.820	0.820	0.820	0.187	1.062	3/4	0.672
I051L8	1/2	0.906	1.406	1.010	0.920	1.010	0.125	0.625	1/2	0.844
I051L12	1/2	0.906	1.656	1.010	0.920	1.010	0.125	0.875	3/4	0.844

### EQUAL ENDED BULKHEAD COUPLING-METRIC

Part No	Tube OD.	L1 Length	L2 Length	H1 Hex A/F	H2 Hex A/F	H3 Hex A/F	P1 Abutment	P2 Abutment	B Max Bulkhead	Bulkhead Hole Dia
MB106/L10	6	20	30	12	12	12	6.5	16.5	10	11
MB108/L10	8	22.5	31.5	14	14	14	7.5	16.5	10	13
MB110/L10	10	24	33.5	19	19	19	9	18.5	10	17
MB112/L10	12	25.5	34	22	22	22	10	18.5	10	19
MB115/L10	15	33	40.5	24	24	24	12.5	20	10	21
MB122/L12	22	36.5	46.5	36	36	36	14	24	12	31
MB128/L12	28	37.7	49.7	41	41	41	12	24	12	37

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# Compression Fittings

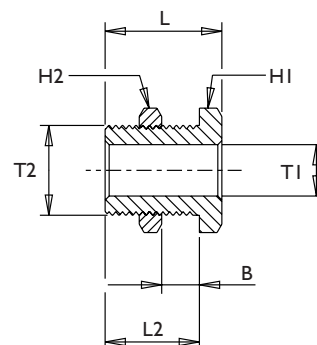
## TUBE – TUBE – STRAIGHT

### FEATURES & BENEFITS

- A female threaded bulkhead adaptor featuring a simple locking mechanism
- When locked in to place through the bulkhead panel the fitting provides a BSP parallel female threaded port on either side allowing connection with BSP parallel male stud couplings



Female Bulkhead



### FEMALE BULKHEAD

Part No	T1 BSP Female Thread	L1 Length	L2 Length	H1 Hex A/F	H2 Hex A/F	B Max Bulkhead	T2 Male Thread	Bulkhead Hole Dia
MB 082/L10	1/8	20	15	19	19	10	M16 x 1.5	17
MB 162/L16	1/4	26	21	24	24	16	M20 x 1.5	21
MB 242/L15	3/8	27	21	27	27	15	M24 x 1.5	25
MB 322/L21	1/2	35	28	36	36	21	M30 x 1.5	31

## TUBE – TUBE – TEES

### FEATURES & BENEFITS

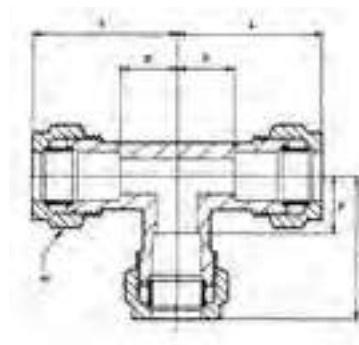
- 'T' configuration
- Enables connection of 3 tubes of the same outside diameter



Equal Tee-Imperial



Equal Tee-Metric



### EQUAL TEE-IMPERIAL

Part No	Tube OD.	L Length	H Hex A/F	P Abutment
2040	1/8	0.718	0.445	0.25
2041	3/16	0.718	0.445	0.25
2043	1/4	0.812	0.601	0.25
2045	5/16	0.812	0.601	0.25
2048	3/8	1.031	0.82	0.375
2051	1/2	1.093	0.92	0.312

### EQUAL TEE-METRIC

Part No	Tube OD.	L Length	H Hex A/F	P Abutment
MT104	4	20	10	8
MT106	6	23	12	9.5
MT108	8	25.5	14	10.5
MT110	10	28.5	19	13.5
MT112	12	31	22	15.5
MT115	15	40.5	24	20
MT116	16	40	27	20
MT122	22	50.5	36	28
MT128	28	52.7	41	27

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# Compression Fittings

## TUBE – TUBE – TEST POINT FITTINGS

### FEATURES & BENEFITS

- Range includes; in-line tube to tube unions, tube to tube elbows & 1/8" BSP taper male nipples
- Designed to provide a pressure test point for LPG and natural gas systems
- Conform to BS 4161
- Compression ends are designed and manufactured to BS 2051
- Wade test point fittings are widely used on caravan and boat pipe installations where EU regulations stipulate the fitting of test points on gas system pipework. For example,

The Boat Safety Scheme, (owned by the Canal & River Trust and Environment Agency), require that All LPG systems must be fitted with one of the following means to determine gas tightness:

**A:** a readily accessible proprietary test point on an appliance

**B:** a readily accessible proprietary test point fitted in the pipework

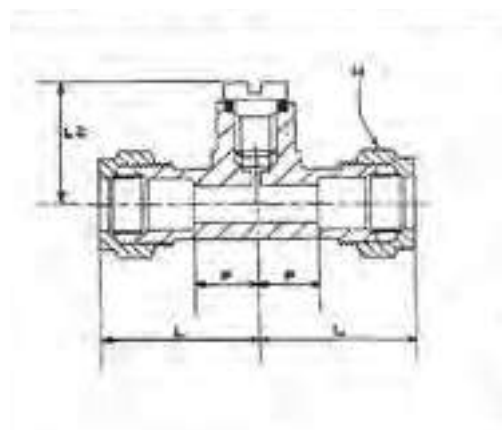
**C:** a bubble tester installed in a cylinder locker or cylinder housing



Test Point Union-Imperial



Test Point Union-Metric



### TEST POINT UNION-IMPERIAL

Part No	Tube OD.	L Length	L2 Length	H Hex A/F	P Abutment
TP2043B	1/4	0.812	0.812	0.601	0.25
TP2045B	5/16	0.812	0.812	0.601	0.25
TP2048B	3/8	1.031	1.031	0.82	0.375
TP2051B	1/2	1.093	1.093	0.92	0.312

### TEST POINT UNION-METRIC

Part No	Tube OD.	L Length	L2 Length	H Hex A/F	P Abutment
MTP1208B	8	20.5	20.5	17	6.3
MTP1210B	10	26	26	19	9.5
MTP1212B	12	27.5	27.5	22	8
MTP1215B	15	TBC	TBC	24	20

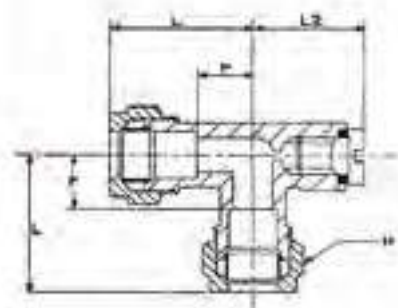
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# Compression Fittings



*Test Point Elbow-Imperial*

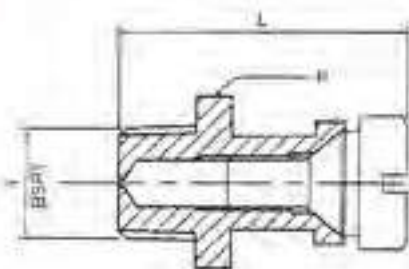


## TEST POINT ELBOW-IMPERIAL

Part No	Tube OD.	L Length	L2 Length	H Hex A/F	P Abutment
TP2043E	1/4	0.812	0.812	0.601	0.25
TP2045E	5/16	0.812	0.812	0.601	0.25
TP2048E	3/8	1.031	1.031	0.82	0.375
TP2051E	1/2	1.093	1.093	0.92	0.312



*Test Point Nipple*



## TEST POINT NIPPLE

Part No	T BSPT Male Thread	L Length	H Hex A/F
SK4157COMPLETE	1/8	0.95	0.512

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# Compression Fittings

## TUBE – MALE – BANJO

### FEATURES & BENEFITS

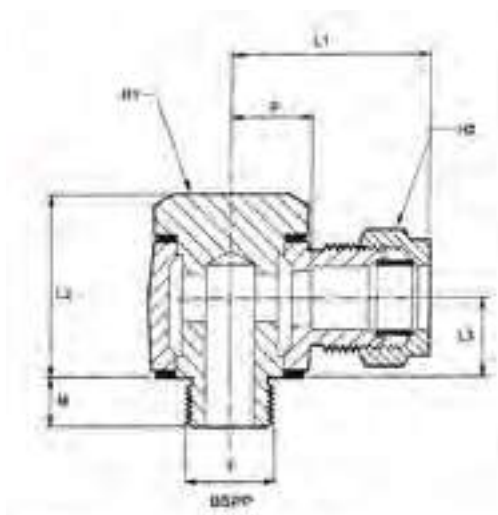
- The construction incorporates a brass body and a steel bolt for additional strength
- The design enables connection of tube at 90° to the BSP parallel male stud thread
- The banjo coupling allows rotational adjustment. During installation, (before fully tightening the hexagon head on the banjo bolt), the tube outlet (compression end) can be aligned in any direction within a 360° turning circle. This provides a distinct advantage over a standard BSP parallel male stud elbow which does not allow the same degree of adjustment
- Banjo couplings are commonly used on automotive fuel, oil and hydraulic applications such as brake and clutch systems



Single Banjo Coupling-With Steel Bolt-Imperial



Single Banjo Coupling-With Steel Bolt-Metric



### SINGLE BANJO COUPLING-WITH STEEL BOLT-IMPERIAL

Part No	Tube OD.	T BSPP Male Thread	M Stud Length	L1 Length	L2 Length	L3 Length	H1 Hex A/F	H2 Hex A/F	P Abutment
3503	1/4	1/4	0.343	1.062	0.968	0.421	0.71	0.601	0.5
6505/1	5/16	1/8	0.312	1.062	0.968	0.421	0.71	0.601	0.5
3505	5/16	1/4	0.343	1.062	0.968	0.421	0.71	0.601	0.5

### SINGLE BANJO COUPLING-WITH STEEL BOLT-METRIC

Part No	Tube OD.	T BSPP Male Thread	M Stud Length	L1 Length	L2 Length	L3 Length	H1 Hex A/F	H2 Hex A/F	P Abutment
MJ108/081	8	1/8	10.5	26.5	24	9.5	14	14	11.5
MJ108/161	8	1/4	16	30.5	31.5	13	19	14	15.5
MJ112/241	12	3/8	16	33.5	38.5	16	22	22	18
MJ112/321	12	1/2	21	34	45.5	19.5	27	22	18.5

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# Compression Fittings



Project: Shell, Stanlow  
Specification: Wade Compression Fittings

Technical Helpline: +44 (0) 1473 277 460  
E: [wadesales@cranebsu.com](mailto:wadesales@cranebsu.com) W: [www.wadefittings.com](http://www.wadefittings.com)

# Compression Fittings

## TUBE – MALE – ELBOW

### FEATURES & BENEFITS

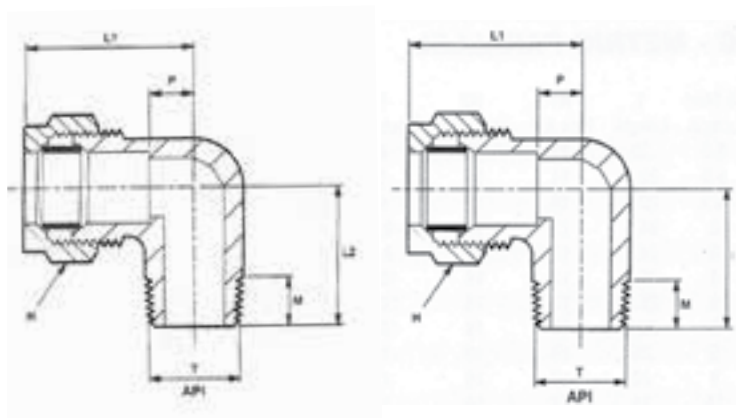
- 90° Elbow configuration with an API male stud thread
- Enables tube connection to a mating API or NPT female threaded port



Male Stud Elbow API-Imperial



Male Stud Elbow API-Metric



### MALE STUD ELBOW API-IMPERIAL

Part No	Tube OD.	T API Male Thread	M Stud Length	L1 Length	L2 Length	H Hex A/F	P Abutment
5023/1API	1/4	1/8	0.375	0.937	0.781	0.601	0.375
2023API	1/4	1/4	0.562	0.937	0.968	0.601	0.375
5028/3API	3/8	1/4	0.562	1.093	1.093	0.82	0.437
2028API	3/8	3/8	0.562	1.093	1.093	0.82	0.437
2031API	1/2	1/2	0.75	1.218	1.312	0.92	0.437

### MALE STUD ELBOW API-METRIC

Part No	Tube OD.	T API Male Thread	M Stud Length	L1 Length	L2 Length	H Hex A/F	P Abutment
ME106/085	6	1/8	9.5	24	20.5	12	10.5
ME106/165	6	1/4	10.5	24	20.5	12	10.5
ME108/165	8	1/4	10.5	25.5	20.5	14	10.5
ME110/165	10	1/4	10.5	28.5	23.5	19	13.5

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# Compression Fittings

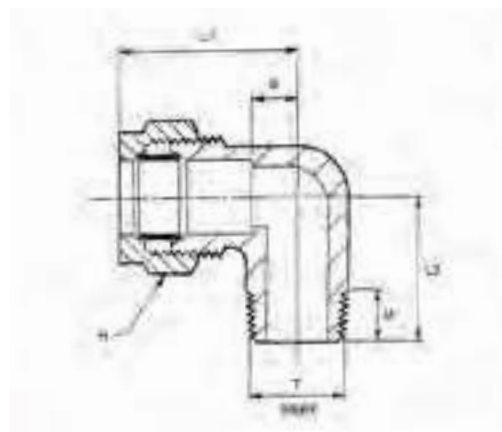
## TUBE – MALE – ELBOW

### FEATURES & BENEFITS

- 90° Elbow configuration with a BSP taper male stud thread
- Enables tube connection to a mating BSP taper or BSP parallel BS21 female threaded port



Male Stud Elbow BSPT-Imperial



### MALE STUD ELBOW BSPT-IMPERIAL

Part No	Tube OD.	T BSPT Male Thread	M Stud Length	L1 Length	L2 Length	H Hex A/F	P Abutment
8020	1/8	1/8	0.375	0.75	0.718	0.445	0.281
8021	3/16	1/8	0.375	0.75	0.718	0.445	0.281
8023/1	1/4	1/8	0.375	0.937	0.718	0.601	0.375
8023	1/4	1/4	0.531	0.937	0.937	0.601	0.375
8023/8	1/4	3/8	0.531	1.062	1.093	0.601	0.5
8025/1	5/16	1/8	0.375	0.937	0.718	0.601	0.375
8025	5/16	1/4	0.531	0.937	0.937	0.601	0.375
8025/8	5/16	3/8	0.531	1.062	1.093	0.601	0.5
8028/1	3/8	1/8	0.375	1.093	0.937	0.82	0.437
8028/3	3/8	1/4	0.531	1.093	1.093	0.82	0.437
8028	3/8	3/8	0.531	1.093	1.093	0.82	0.437
8028/11	3/8	1/2	0.687	1.218	1.312	0.82	0.562
8031/8	1/2	3/8	0.531	1.218	1.125	0.92	0.437
8031	1/2	1/2	0.687	1.218	1.312	0.92	0.437
8033/11	5/8	1/2	0.687	1.5	1.5	1.2	0.625
8034	3/4	3/4	0.687	1.687	1.718	1.39	0.781

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# Compression Fittings

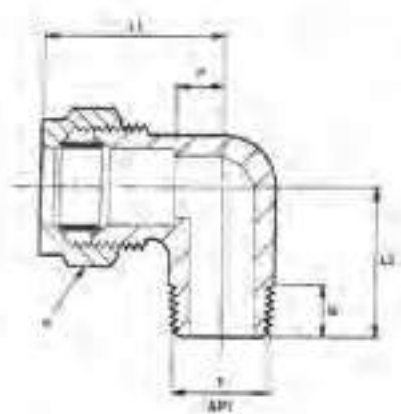
## TUBE – MALE – ELBOW

### FEATURES & BENEFITS

- 90° Elbow configuration with a BSP taper male stud thread
- Enables tube connection to a mating BSP taper or BSP parallel BS21 female threaded port



Male Stud Elbow BSPT-Metric



### MALE STUD ELBOW BSPT-METRIC

Part No	Tube OD.	T BSPT Male Thread	M Stud Length	L1 Length	L2 Length	H Hex A/F	P Abutment
ME104/083	4	1/8	7	22.5	17	10	10.5
ME106/083	6	1/8	7	24	17	12	10.5
ME106/163	6	1/4	10.5	24	20.5	12	10.5
ME108/083	8	1/8	7	25.5	17	14	10.5
ME108/163	8	1/4	10.5	25.5	20.5	14	10.5
ME108/243	8	3/8	11	28.5	24	14	13.5
ME110/163	10	1/4	10.5	28.5	23.5	19	13.5
ME110/243	10	3/8	11	28.5	24	19	13.5
ME110/323	10	1/2	14.5	36.5	32.5	19	21.5
ME112/163	12	1/4	10.5	31	25.5	22	15.5
ME112/243	12	3/8	11	31	26	22	15.5
ME112/323	12	1/2	14.5	34	32.5	22	18.5
ME115/243	15	3/8	11	40.5	29	24	20
ME115/323	15	1/2	14.5	40.5	32.5	24	20
ME116/323	16	1/2	11	40	29	27	20
ME120/483	20	3/4	16	43.5	37	32	23
ME122/483	22	3/4	16	50.5	42	36	28
ME125/483	25	3/4	16	50.5	42	41	28
ME125/643	25	1	18.5	50.5	44.5	41	28

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# Compression Fittings

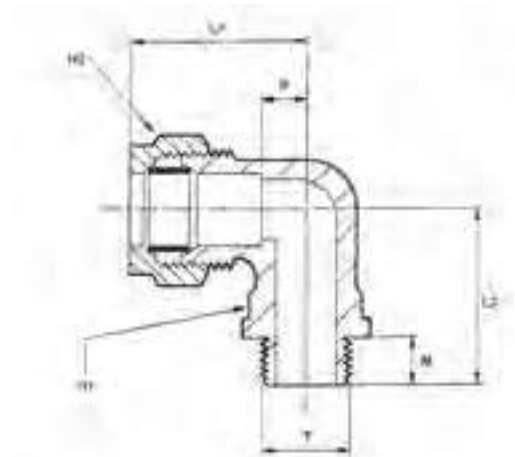
## TUBE – MALE – ELBOW

### FEATURES & BENEFITS

- 90° Elbow configuration with a BSP parallel male stud thread
- Enables tube connection to a mating BSP parallel BS2779 female threaded port



*Male Stud Elbow BSP Parallel-Imperial*



### MALE STUD ELBOW BSP PARALLEL-IMPERIAL

Part No	Tube OD.	T BSPP Male Thread	M Stud Length	L1 Length	L2 Length	H1 Hex A/F	H2 Hex A/F	P Abutment
5023/1	1/4	1/8	0.312	1.062	1	0.445	0.601	0.5
2023	1/4	1/4	0.343	1.062	1.062	0.445	0.601	0.5
5023/8	1/4	3/8	0.375	1.218	1.25	0.601	0.601	0.656
2025	5/16	1/4	0.343	1.062	1.062	0.445	0.601	0.5
2028	3/8	3/8	0.375	1.25	1.25	0.601	0.82	0.593
2031	1/2	1/2	0.437	1.375	1.375	0.71	0.92	0.593

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# Compression Fittings

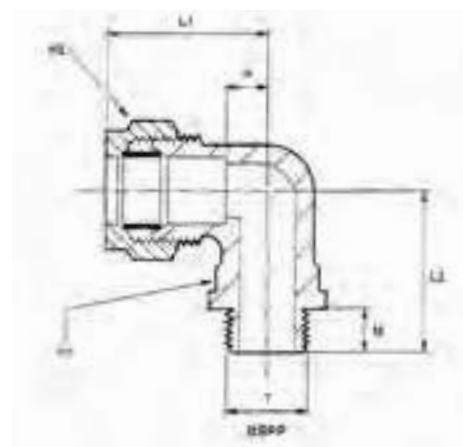
## TUBE – MALE – ELBOW

### FEATURES & BENEFITS

- 90° Elbow configuration with a BSP parallel male stud thread
- Enables tube connection to a mating BSP parallel BS2779 female threaded port



Male Stud Elbow BSP Parallel-Metric



### MALE STUD ELBOW BSP PARALLEL-METRIC

Part No	Tube OD.	T BSPP Male Thread	M Stud Length	L1 Length	L2 Length	H1 Hex A/F	H2 Hex A/F	P Abutment
ME106/081	6	1/8	7	26.5	23.7	10	12	13.5
ME106/161	6	1/4	10.5	27	29.2	10	12	13.5
ME108/081	8	1/8	7	28.5	23.7	10	14	13.5
ME108/161	8	1/4	10.5	28.5	29.2	10	14	13.5
ME110/161	10	1/4	10.5	31.5	32	12	19	16.5
ME110/241	10	3/8	11	31.5	34.5	12	19	16.5
ME112/241	12	3/8	11	32	31.2	17	22	16.5
ME112/321	12	1/2	14.5	34	38.5	19	22	18.5

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# Compression Fittings

## TUBE – MALE – STRAIGHT

### FEATURES & BENEFITS

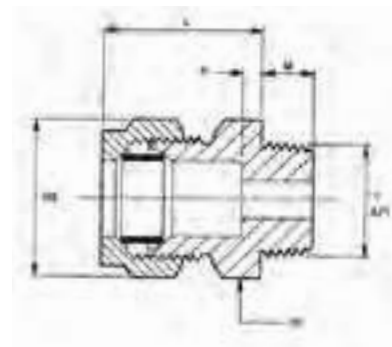
- In-line configuration with an API male stud thread
- Enables tube connection to a mating API or NPT female threaded port



Male Stud Coupling API-Imperial



Male Stud Coupling API-Metric



### MALE STUD COUPLING API-IMPERIAL

Part No	Tube OD.	T API Male Thread	M Stud Length	L Length	H1 Hex A/F	H2 Hex A/F	P Abutment
4061/3API	3/16	1/4	0.562	0.656	0.601	0.445	0.187
4063/1API	1/4	1/8	0.375	0.718	0.525	0.601	0.156
1063API	1/4	1/4	0.562	0.718	0.601	0.601	0.156
4063/8API	1/4	3/8	0.562	0.781	0.71	0.601	0.218
4063/1 1API	1/4	1/2	0.75	0.781	0.92	0.601	0.218
1065API	5/16	1/4	0.562	0.718	0.601	0.601	0.156
4068/1API	3/8	1/8	0.375	0.843	0.71	0.82	0.187
4068/3API	3/8	1/4	0.562	0.843	0.71	0.82	0.187
1068API	3/8	3/8	0.562	0.843	0.71	0.82	0.187
4068/1 1API	3/8	1/2	0.75	0.843	0.92	0.82	0.25
4071/3API	1/2	1/4	0.562	0.906	0.92	0.92	0.125
4071/8API	1/2	3/8	0.562	0.906	0.92	0.92	0.125
1071API	1/2	1/2	0.75	0.906	0.92	0.92	0.125

### MALE STUD COUPLING API-METRIC

Part No	Tube OD.	T API Male Thread	M Stud Length	L Length	H1 Hex A/F	H2 Hex A/F	P Abutment
MC106/085	6	1/8	9.5	20.75	11	12	6
MC106/165	6	1/4	14	22	14	12	7.75
MC106/245	6	3/8	14.5	23.75	19	12	8.75
MC106/325	6	1/2	19	25	22	12	10
MC108/165	8	1/4	14	23.5	14	14	7.75
MC110/165	10	1/4	14	23.5	17	19	8.5
MC110/245	10	3/8	14.5	25.25	19	19	8.75
MC110/325	10	1/2	19	26.5	22	19	10.5
MC112/165	12	1/4	14	25.7	19	22	8.5
MC112/245	12	3/8	14.5	25.75	19	22	8.75

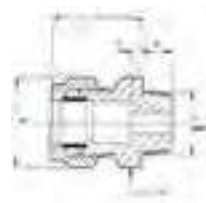
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# Compression Fittings

## TUBE – MALE – STRAIGHT

### FEATURES & BENEFITS

- In-line configuration with a BSP taper male stud thread
- Enables tube connection to a mating BSP taper or BSP parallel BS21 female threaded port



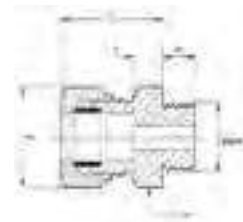
Male Stud Coupling BSPT-Imperial

### MALE STUD COUPLING BSPT-IMPERIAL

Part No	Tube OD.	T BSPT Male Thread	M Stud Length	L Length	H1 Hex A/F	H2 Hex A/F	P Abutment
7060	1/8	1/8	0.375	0.625	0.445	0.445	0.156
7060/3	1/8	1/4	0.531	0.656	0.601	0.445	0.187
7061	3/16	1/8	0.375	0.625	0.445	0.445	0.156
7061/3	3/16	1/4	0.531	0.656	0.601	0.445	0.187
7063/1	1/4	1/8	0.375	0.718	0.525	0.601	0.156
7063	1/4	1/4	0.531	0.718	0.525	0.601	0.156
7063/8	1/4	3/8	0.531	0.718	0.71	0.601	0.218
7063/11	1/4	1/2	0.687	0.781	0.92	0.601	0.218
7065/1	5/16	1/8	0.375	0.718	0.525	0.601	0.156
7065	5/16	1/4	0.531	0.718	0.525	0.601	0.156
7065/8	5/16	3/8	0.531	0.781	0.71	0.601	0.218
7065/11	5/16	1/2	0.687	0.781	0.92	0.601	0.218
7068/1	3/8	1/8	0.375	0.843	0.71	0.82	0.187
7068/3	3/8	1/4	0.531	0.843	0.71	0.82	0.187
7068	3/8	3/8	0.531	0.843	0.71	0.82	0.187
7068/11	3/8	1/2	0.687	0.843	0.92	0.82	0.187
7071/3	1/2	1/4	0.531	0.906	0.92	0.92	0.125
7071/8	1/2	3/8	0.531	0.906	0.92	0.92	0.125
7071	1/2	1/2	0.687	0.906	0.92	0.92	0.125
7073/11	5/8	1/2	0.687	1.062	1.1	1.2	0.187
7074/11	3/4	1/2	0.687	1.093	1.2	1.39	0.187
7074	3/4	3/4	0.687	1.093	1.2	1.39	0.187

### FEATURES & BENEFITS

- Inline Configuration with a Metric Parallel Male Stud Thread
- Enables tube connection to a mating Metric Parallel BS3643 Female threaded port



Male Stud Coupling-Metric Parallel

### MALE STUD COUPLING-METRIC PARALLEL

Part No	Tube OD.	T Metric Male Thread	M Stud Length	L Length	H1 Hex A/F	H2 Hex A/F	P Abutment
MC110/14M15	10	M 14 x 1.5	8	25.5	17	19	10.5

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# Compression Fittings

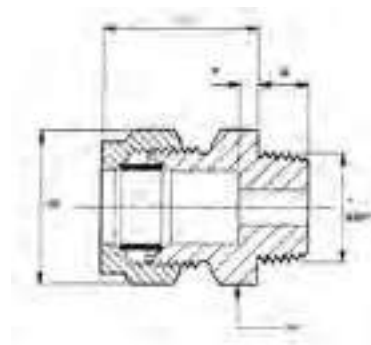
## TUBE – MALE – STRAIGHT

### FEATURES & BENEFITS

- In-line configuration with a BSP Taper male stud thread
- Enables tube connection to a mating BSP Taper or BSP Parallel BS21 female threaded port



Male Stud Coupling BSPT-Metric



### MALE STUD COUPLING BSPT-METRIC

Part No	Tube OD.	T BSPT Male Thread	M Stud Length	L Length	H1 Hex A/F	H2 Hex A/F	P Abutment
MC104/083	4	1/8	8.5	18.75	11	10	11
MC104/163	4	1/4	12.5	19.75	14	10	14
MC105/083	5	1/8	8.5	20.75	11	12	11
MC105/163	5	1/4	12.5	21.75	14	12	14
MC106/083	6	1/8	8.5	20.25	11	12	11
MC106/163	6	1/4	12.5	21.25	14	12	14
MC106/243	6	3/8	13	21.5	19	12	14.5
MC108/083	8	1/8	8.5	22.75	13	14	12
MC108/163	8	1/4	12.5	22.75	14	14	14
MC108/243	8	3/8	13	23	19	14	14.5
MC108/323	8	1/2	17	24	22	14	9
MC110/083	10	1/8	8.5	23.75	17	19	13
MC110/163	10	1/4	12.5	23.75	17	19	15
MC110/243	10	3/8	13	24	19	19	15.5
MC110/323	10	1/2	17	25.5	22	19	19
MC112/163	12	1/4	12.5	24.75	19	22	15.5
MC112/243	12	3/8	13	24.5	19	22	15.5
MC112/323	12	1/2	17	26	22	22	19
MC115/243	15	3/8	13	32	22	24	18
MC115/323	15	1/2	17	33.5	24	24	21.5
MC116/243	16	3/8	13	32.5	24	27	19
MC116/323	16	1/2	17	33	24	27	21.5
MC122/483	22	3/4	18	36.5	32	36	36
MC125/483	25	3/4	18	36.5	36	41	36

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# Compression Fittings

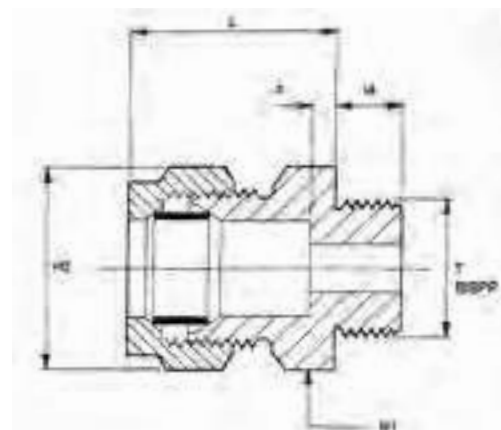
## TUBE – MALE – STRAIGHT

### FEATURES & BENEFITS

- In-line configuration with a BSP parallel male stud thread
- Enables tube connection to a mating BSP parallel BS2779 female threaded port



Male Stud Coupling BSP Parallel-Imperial



### MALE STUD COUPLING BSP PARALLEL-IMPERIAL

Part No	Tube OD.	T BSPP Male Thread	M Stud Length	L Length	H1 Hex A/F	H2 Hex A/F	P Abutment
1060	1/8	1/8	0.312	0.625	0.445	0.445	0.156
4060/3	1/8	1/4	0.343	0.656	0.71	0.445	0.187
1061	3/16	1/8	0.312	0.625	0.445	0.445	0.156
4061/3	3/16	1/4	0.343	0.656	0.71	0.445	0.187
4061/8	3/16	3/8	0.375	0.718	0.82	0.445	0.25
4063/1	1/4	1/8	0.312	0.718	0.525	0.601	0.156
1063	1/4	1/4	0.343	0.718	0.71	0.601	0.156
4063/8	1/4	3/8	0.375	0.781	0.82	0.601	0.218
4063/11	1/4	1/2	0.437	0.781	0.92	0.601	0.218
4065/1	5/16	1/8	0.312	0.718	0.525	0.601	0.156
1065	5/16	1/4	0.343	0.718	0.71	0.601	0.156
4065/8	5/16	3/8	0.375	0.781	0.82	0.601	0.218
4065/11	5/16	1/2	0.437	0.781	0.92	0.601	0.218
4068/3	3/8	1/4	0.343	0.843	0.71	0.82	0.187
1068	3/8	3/8	0.375	0.843	0.82	0.82	0.187
4068/11	3/8	1/2	0.437	0.843	0.92	0.82	0.187
4071/3	1/2	1/4	0.343	0.906	0.92	0.92	0.125
4071/8	1/2	3/8	0.375	0.906	0.92	0.92	0.125
1071	1/2	1/2	0.437	0.906	0.92	0.92	0.125
4071/14	1/2	3/4	0.5	0.906	1.2	0.92	0.125
4073/11	5/8	1/2	0.437	1	1.1	1.2	0.125
4074/11	3/4	1/2	0.437	1.093	1.2	1.39	0.187
1074	3/4	3/4	0.5	1.093	1.3	1.39	0.187
1076	7/8	3/4	0.5	1.125	1.39	1.48	0.187

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# Compression Fittings

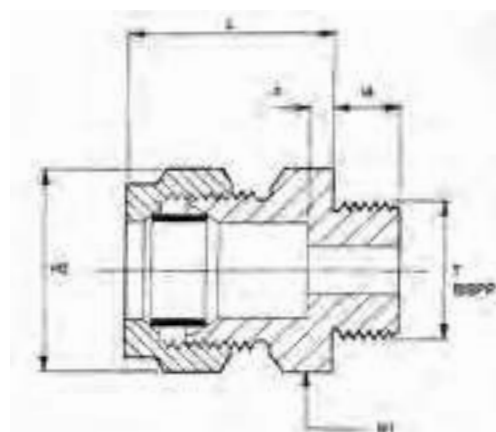
## TUBE – MALE – STRAIGHT

### FEATURES & BENEFITS

- In-line configuration with a BSP parallel male stud thread
- Enables tube connection to a mating BSP parallel BS2779 female threaded port



Male Stud Coupling BSP Parallel-Metric



### MALE STUD COUPLING BSP PARALLEL-METRIC

Part No	Tube OD.	T BSPP Male Thread	M Stud Length	L Length	H1 Hex A/F	H2 Hex A/F	P Abutment
MC104/16I	4	1/4	10.5	22	19	10	9.5
MC106/08I	6	1/8	7	22	14	12	8.5
MC106/16I	6	1/4	10.5	23	19	12	9.5
MC106/24I	6	3/8	11	24.5	22	12	11
MC108/08I	8	1/8	7	23.5	14	14	8.5
MC108/16I	8	1/4	10.5	24.5	19	14	9.5
MC108/24I	8	3/8	11	26	22	14	11
MC110/16I	10	1/4	10.5	25.5	19	19	10.5
MC110/24I	10	3/8	11	27	22	19	12
MC110/32I	10	1/2	14.5	28.5	27	19	13.5
MC112/16I	12	1/4	10.5	26	19	22	10.5
MC112/24I	12	3/8	11	27.5	22	22	12
MC112/32I	12	1/2	14.5	29	27	22	13.5
MC115/24I	15	3/8	11	33	22	24	13.5
MC115/32I	15	1/2	14.5	35.5	27	24	15
MC116/32I	16	1/2	14.5	35	27	27	15
MC118/32I	18	1/2	14.5	36.5	27	30	15
MC120/48I	20	3/4	16	37	32	32	16.5
MC122/48I	22	3/4	16	39	32	36	16.5
MC122/64I	22	1	18.5	39	41	36	16.5
MC125/48I	25	3/4	16	39	36	41	16.5
MC125/64I	25	1	18.5	39	41	41	16.5
MC128/64I	28	1	18.5	40.2	41	41	14.5

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# Compression Fittings

## TUBE – MALE – BRANCH TEE

### FEATURES & BENEFITS

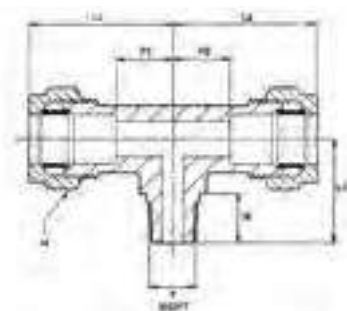
- 'T' configuration, in-line tube to tube compression with BSP taper male stud thread on the branch
- Enables in-line connection of 2 tubes of the same outside diameter to a mating BSP taper or BSP parallel BS21 female threaded port



Male Branch Tee BSPT-Imperial



Male Branch Tee BSPT-Metric



### MALE BRANCH TEE BSPT-IMPERIAL

Part No	Tube OD.	Tube OD.	T BSPT Male Thread	L1 & L2 Length	L3 Length	H Hex A/F	P1 & P2 Abutment	M Stud Length
9063/1B	1/4	1/4	1/8	0.812	0.75	0.601	0.375	0.375
9063B	1/4	1/4	1/4	1	0.937	0.601	0.281	0.531
9068/3B	3/8	3/8	1/4	1.093	0.812	0.82	0.375	0.531
9068B	3/8	3/8	3/8	1.093	1.031	0.82	0.562	0.531

### MALE BRANCH TEE BSPT-METRIC

Part No	Tube OD.	Tube OD.	T BSPT Male Thread	L1 & L2 Length	L3 Length	H Hex A/F	P1 & P2 Abutment	M Stud Length
MT106/083	6	6	1/8	24	17	12	10.5	7
MT106/163	6	6	1/4	24	20.5	12	10.5	10.5
MT108/163	8	8	1/4	25.5	20.5	14	10.5	10.5

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# Compression Fittings

## TUBE – MALE – RUN TEE

### FEATURES & BENEFITS

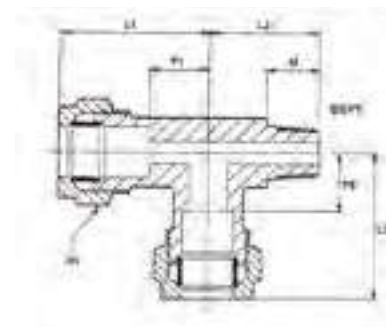
- 'T' configuration, 90° tube to tube compression with BSP taper male stud thread on the run
- Enables 90° connection of 2 tubes of the same outside diameter to a mating BSP taper or BSP parallel BS21 female threaded port



Male Run Tee BSPT-Imperial



Male Run Tee BSPT-Metric



### MALE RUN TEE BSPT-IMPERIAL

Part No	Tube OD.	T BSPT Male Thread	Tube OD.	L1 & L3 Length	L2 Length	H Hex A/F	P1 & P2 Abutment	M Stud Length
9061E	3/16	1/8	3/16	0.781	0.625	0.445	0.312	0.375
9063E	1/4	1/4	1/4	1	0.937	0.601	0.281	0.531
9068/3E	3/8	1/4	3/8	1.093	0.812	0.82	0.375	0.531

### MALE RUN TEE BSPT-METRIC

Part No	Tube OD.	T BSPT Male Thread	Tube OD.	L1 & L3 Length	L2 Length	H Hex A/F	P1 & P2 Abutment	M Stud Length
MT083/106	6	1/8	6	24	17	12	10.5	7
MT163/106	6	1/4	6	24	20.5	12	10.5	10.5
MT163/108	8	1/4	8	25.5	20.5	14	10.5	10.5

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# Compression Fittings

## TUBE – FEMALE – ELBOW

### FEATURES & BENEFITS

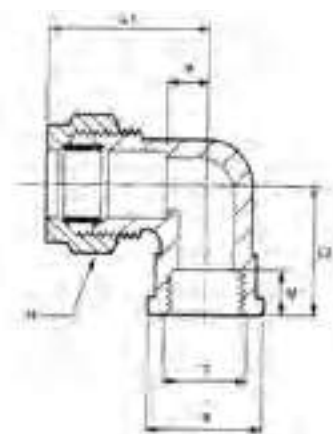
- 90° Elbow configuration with a BSP parallel female stud thread
- Enables tube connection to a mating BSP parallel BS2779 male thread



*Female Stud Elbow BSP Parallel-Imperial*



*Female Stud Elbow BSP Parallel-Metric*



### FEMALE STUD ELBOW BSP PARALLEL-IMPERIAL

Part No	Tube OD.	T BSP Female Thread	M Stud Length	L1 Length	L2 Length	H Hex A/F	P Abutment	S Diameter
1983	1/4	1/4	0.312	1.062	0.687	0.601	0.5	0.75
1985	5/16	1/4	0.312	1.062	0.687	0.601	0.5	0.75

### FEMALE STUD ELBOW BSP PARALLEL-METRIC

Part No	Tube OD.	T BSP Female Thread	M Stud Length	L1 Length	L2 Length	H Hex A/F	P Abutment	S Diameter
ME106/082	6	1/8	9	27	25.7	12	13.5	14
ME106/162	6	1/4	13.5	27	30.2	12	13.5	18
ME108/082	8	1/8	9	28.5	25.7	14	13.5	14
ME108/162	8	1/4	13.5	28.5	30.2	14	13.5	18
ME110/162	10	1/4	13.5	31.5	34.2	19	16.5	18
ME110/242	10	3/8	14	31.5	34.7	19	16.5	22
ME112/322	12	1/2	18	34	39	22	18.5	26
ME115/322	15	1/2	18	40.5	39	24	20	26
ME116/322	16	1/2	18	39.5	39	27	20	26

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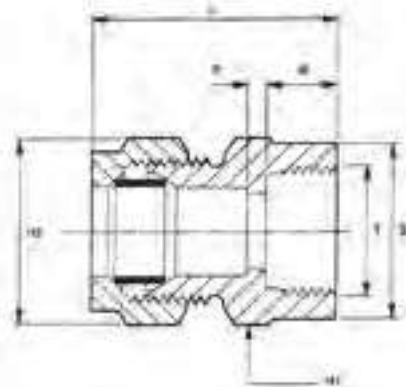


# Compression Fittings

## TUBE – FEMALE – STRAIGHT

### FEATURES & BENEFITS

- In-line configuration with an API female stud thread
- Enables tube connection to a mating API or NPT male thread



*Female Stud Coupling API-Imperial*

### FEMALE STUD COUPLING API-IMPERIAL

Part No	Tube OD.	T API Female Thread	M Stud Length	L Length	H1 Hex A/F	H2 Hex A/F	P Abutment	S Diameter
1080API	1/8	1/8	0.375	0.906	0.525	0.445	0.062	0.525
1081API	3/16	1/8	0.375	0.906	0.525	0.445	0.062	0.525
4081/3API	3/16	1/4	0.562	1.125	0.71	0.445	0.093	0.71
4083/1API	1/4	1/8	0.375	1.031	0.525	0.601	0.093	0.525
1083API	1/4	1/4	0.562	1.25	0.71	0.601	0.125	0.71
4083/11API	1/4	1/2	0.75	1.437	1.01	0.601	0.125	1.01
1088API	3/8	3/8	0.562	1.343	0.92	0.82	0.125	0.92
4088/11API	3/8	1/2	0.75	1.531	1.01	0.82	0.125	1.01
1091API	1/2	1/2	0.75	1.656	1.01	0.92	0.125	1.01

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# Compression Fittings

## TUBE – FEMALE – STRAIGHT

### FEATURES & BENEFITS

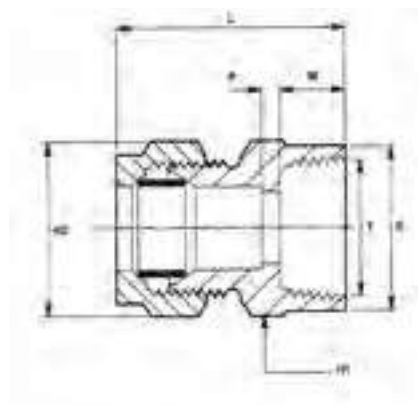
- In-line Configuration with a BSP taper female stud thread
- Enables tube connection to a mating BSP taper male thread



Female Stud Coupling BSPT-Imperial



Female Stud Coupling BSPT-Metric



### FEMALE STUD COUPLING BSPT-IMPERIAL

Part No	Tube OD.	T BSPT Female Thread	M Stud Length	L Length	H1 Hex A/F	H2 Hex A/F	P Abutment	S Diameter
7083/1	1/4	1/8	0.375	1.031	0.525	0.601	0.093	0.525
7083	1/4	1/4	0.531	1.218	0.71	0.601	0.125	0.71
7083/8	1/4	3/8	0.531	1.218	0.92	0.601	0.125	0.92
7083/11	1/4	1/2	0.687	1.375	1.01	0.601	0.125	1.01
7085	5/16	1/4	0.531	1.218	0.71	0.601	0.125	0.71
7085/8	5/16	3/8	0.531	1.218	0.92	0.601	0.125	0.92
7088/3	3/8	1/4	0.531	1.312	0.71	0.82	0.125	0.71
7088	3/8	3/8	0.531	1.312	0.92	0.82	0.125	0.92
7088/11	3/8	1/2	0.687	1.468	1.01	0.82	0.125	1.01
7091	1/2	1/2	0.687	1.593	1.01	0.92	0.125	1.01

### FEMALE STUD COUPLING BSPT-METRIC

Part No	Tube OD.	T BSPT Female Thread	M Stud Length	L Length	H1 Hex A/F	H2 Hex A/F	P Abutment	S Diameter
MC106/164	6	1/4	13.5	46.5	22	12	6	Not applicable
MC108/164	8	1/4	13.5	48	20	14	6	Not applicable

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# Compression Fittings

## TUBE – FEMALE – STRAIGHT

### FEATURES & BENEFITS

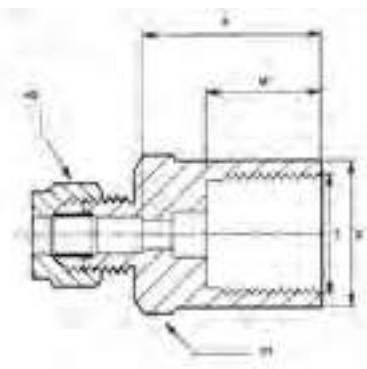
- In-line configuration with a BSP parallel female stud thread
- Enables tube connection to a mating BSP parallel male thread on a pressure gauge
- Designed with a BSP parallel female thread to enable tube connection with a pressure gauge
- The internal form at the back of this thread is dimensioned to house the external male BSP parallel connection thread of the pressure gauge



*Female Pressure  
Gauge Connector BSP  
Parallel-Imperial*



*Female Pressure  
Gauge Connector BSP  
Parallel-Metric*



### FEMALE PRESSURE GAUGE CONNECTOR BSP PARALLEL-IMPERIAL

Part No	Tube OD.	T BSPP Female Thread	M Stud Length	H1 Hex A/F	H2 Hex A/F	P Abutment	S Diameter
1083A	1/4	1/4	0.437	0.71	0.601	0.781	0.7
4083/8A	1/4	3/8	0.5	0.92	0.601	0.875	0.9
4083/11A	1/4	1/2	0.75	1.01	0.601	1.125	0.982
1088A	3/8	3/8	0.5	0.92	0.82	0.718	0.9
4088/11A	3/8	1/2	0.75	1.01	0.82	0.968	0.982

### FEMALE PRESSURE GAUGE CONNECTOR BSP PARALLEL-METRIC

Part No	Tube OD.	T BSPP Female Thread	M Stud Length	H1 Hex A/F	H2 Hex A/F	P Abutment	S Diameter
MGA104/162	4	1/4	11	19	10	22	Not applicable
MGA106/082	6	1/8	7.5	14	12	16.5	Not applicable
MGA106/162	6	1/4	11	19	12	22	Not applicable
MGA106/242	6	3/8	11.5	22	12	22.5	Not applicable
MGA106/322	6	1/2	15.5	27	12	25.5	Not applicable
MGA110/242	10	3/8	11.5	22	19	21	Not applicable

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# Compression Fittings

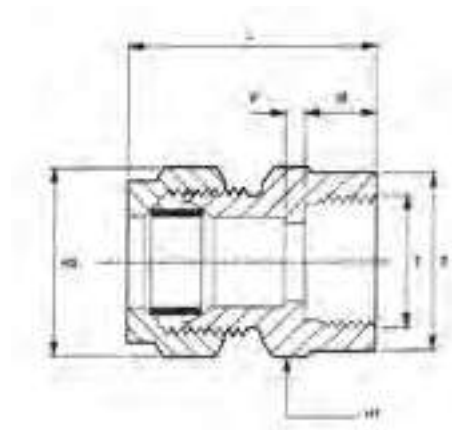
## TUBE – FEMALE – STRAIGHT

### FEATURES & BENEFITS

- In-line configuration with a BSP parallel female stud thread
- Enables tube connection to a mating BSP Parallel male thread



Female Stud Coupling BSPP-Imperial



### FEMALE STUD COUPLING BSP PARALLEL - IMPERIAL

Part No	Tube OD.	T BSPP Female Thread	M Stud Length	L Length	H1 Hex A/F	H2 Hex A/F	P Abutment	S Diameter
1080	1/8	1/8	0.25	0.812	0.525	0.445	0.093	0.525
4080/3	1/8	1/4	0.25	0.843	0.71	0.445	0.125	0.71
1081	3/16	1/8	0.25	0.812	0.525	0.445	0.093	0.525
4081/3	3/16	1/4	0.25	0.843	0.71	0.445	0.125	0.71
4081/8	3/16	3/8	0.312	0.906	0.82	0.445	0.125	0.82
4083/1	1/4	1/8	0.25	0.906	0.525	0.601	0.093	0.525
1083	1/4	1/4	0.25	0.937	0.71	0.601	0.125	0.71
4083/8	1/4	3/8	0.312	1	0.82	0.601	0.125	0.82
4083/11	1/4	1/2	0.375	1.062	1.01	0.601	0.125	1.01
4085/1	5/16	1/8	0.25	0.906	0.525	0.601	0.093	0.525
1085	5/16	1/4	0.25	0.937	0.71	0.601	0.125	0.71
4085/11	5/16	1/2	0.375	1.062	1.01	0.601	0.125	1.01
4088/1	3/8	1/8	0.25	1	0.71	0.82	0.093	0.71
4088/3	3/8	1/4	0.25	1.031	0.71	0.82	0.125	0.71
1088	3/8	3/8	0.312	1.093	0.82	0.82	0.125	0.82
4088/11	3/8	1/2	0.375	1.156	1.01	0.82	0.125	1.01
4091/8	1/2	3/8	0.312	1.218	0.92	0.92	0.125	0.92
1091	1/2	1/2	0.375	1.281	1.01	0.92	0.125	1.01
1097	1	1	0.75	1.875	1.67	1.67	0.125	1.67

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# Compression Fittings

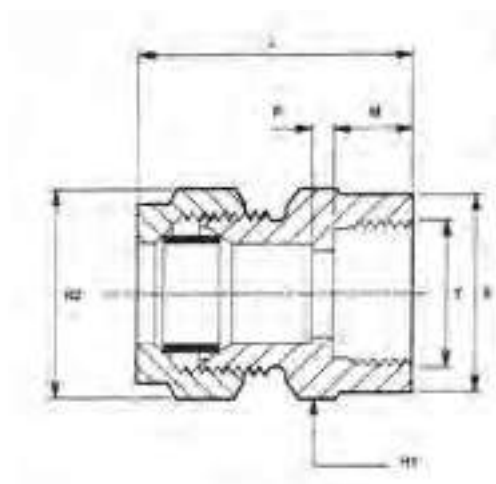
## TUBE – FEMALE – STRAIGHT

### FEATURES & BENEFITS

- In-line configuration with a BSP parallel female stud thread
- Enables tube connection to a mating BSP Parallel male thread



Female Stud Coupling BSPP-Metric



### FEMALE STUD COUPLING BSP PARALLEL - METRIC

Part No	Tube OD.	T BSPP Female Thread	M Stud Length	L Length	H1 Hex A/F	H2 Hex A/F	P Abutment	S Diameter
MCI04/082	4	1/8	9	26	14	10	5	Not applicable
MCI04/162	4	1/4	13.5	31.5	19	10	6	Not applicable
MCI05/082	5	1/8	9	27	14	12	5	Not applicable
MCI06/082	6	1/8	9	27.5	14	12	5	Not applicable
MCI06/162	6	1/4	13.5	33	19	12	6	Not applicable
MCI08/082	8	1/8	9	29	14	14	5	Not applicable
MCI08/162	8	1/4	13.5	34.5	19	14	6	Not applicable
MCI08/242	8	3/8	14	35	22	14	6	Not applicable
MCI10/162	10	1/4	13.5	35.5	19	19	7	Not applicable
MCI10/242	10	3/8	14	36	22	19	7	Not applicable
MCI10/322	10	1/2	18	40.5	27	19	7.5	Not applicable
MCI12/162	12	1/4	13.5	36	19	22	7	Not applicable
MCI12/242	12	3/8	14	36.5	22	22	7	Not applicable
MCI12/322	12	1/2	18	41	27	22	7.5	Not applicable
MCI15/242	15	3/8	14	43	22	24	8.5	Not applicable
MCI15/322	15	1/2	18	47.5	27	24	9	Not applicable
MCI16/322	16	1/2	18	46.5	27	27	9	Not applicable
MCI22/482	22	3/4	19.5	51.5	32	36	9.5	Not applicable

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# Compression Fittings

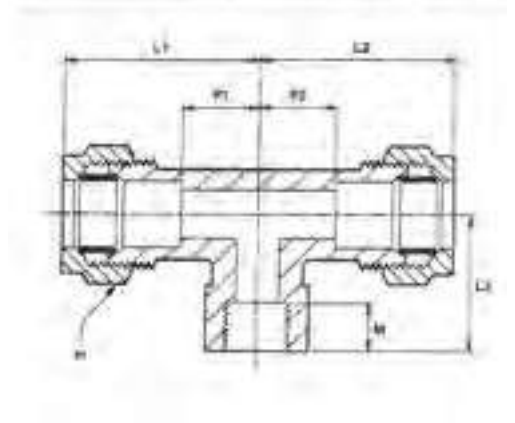
## TUBE – FEMALE – TEE

### FEATURES & BENEFITS

- 'T' configuration, in-line tube to tube compression with BSP parallel female Stud thread on the branch
- Enables in-line connection of 2 tubes of the same outside diameter to a mating BSP parallel BS2779 male thread



*Female Branch Tee BSP Parallel-Imperial*



### FEMALE BRANCH TEE BSP PARALLEL-IMPERIAL

Part No	Tube OD.	Tube OD.	T BSPP Female Thread	L1 & L2 Length	L3 Length	H Hex A/F	P1 & P2 Abutment	M Stud Length
3083B	1/4	1/4	1/4	1.187	0.875	0.601	0.5	0.437

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# Compression Fittings

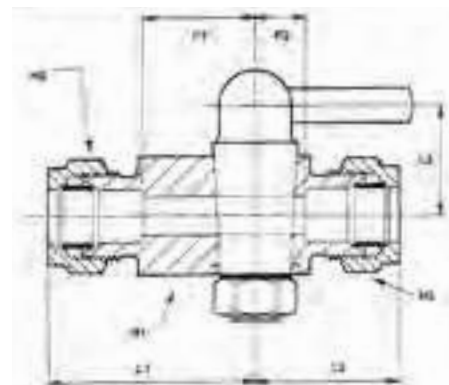
## PLUG COCKS & NEEDLE VALVES

### FEATURES & BENEFITS

- In-line configuration
- Enables connection of 2 tubes of the same outside diameter
- Lever handle and 1/4 turn operation.
- Incorporates an internal plug which is drilled across its axis, allowing flow only when the drilled hole is in line with the inlet and outlet
- Designed for low pressure hydraulic and pneumatic applications with a maximum working pressure of 30 PSI / 2 Bar



*Plug Cock-Imperial*



### PLUG COCK-IMPERIAL

Part No	Tube OD.	Tube OD.	L1 Length	L2 Length	L3 Length	H1 Hex A/F	H2 Hex A/F	H3 Hex A/F	P1 Abutment	P2 Abutment
3003	1/4	1/4	1.25	0.875	0.625	0.525	0.601	0.601	0.687	0.312
3005	5/16	5/16	1.25	0.875	0.625	0.525	0.601	0.601	0.687	0.312

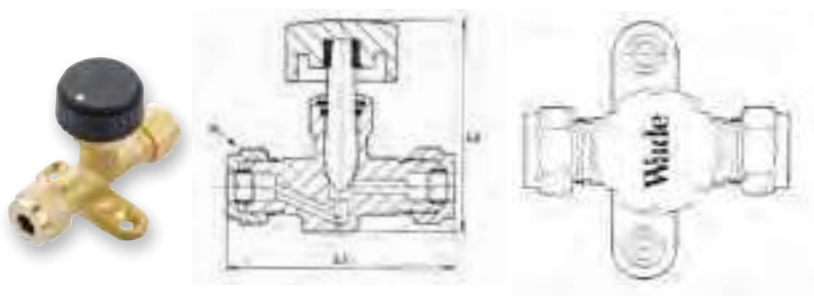
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# Compression Fittings

## PLUG COCKS & NEEDLE VALVES

### FEATURES & BENEFITS

- In-line configuration
- Enables connection of 2 tubes of the same outside diameter
- A simple needle valve of brass construction (with the exception of the handle and nitrile 'O' rings)
- The design of the valve spindle enables control of the flow medium
- The design incorporates a 'foot plate' with 2 countersunk holes allowing the valve to be mounted securely against a floor, wall or panel
- Designed for low pressure hydraulic and pneumatic applications
- Maximum working pressure: 100 PSI / 6.8 Bar
- Working temperature range: -40° C to +135°C



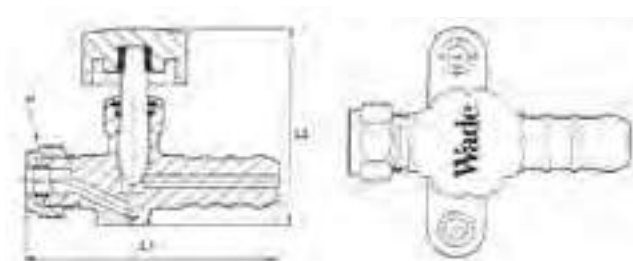
Needle Valve-Foot Mounted-Tube-Tube

### NEEDLE VALVE-FOOT MOUNTED-TUBE-TUBE-IMPERIAL

Part No	Tube OD.	Tube OD.	L1 Length	L2 Length	H Hex A/F
WVA4/B16	1/4	1/4	2.25	1.562	0.601
WVA4/B20	5/16	5/16	2.25	1.562	0.601

### FEATURES & BENEFITS

- In-line configuration
- Enables connection of copper, nylon tube etc. to 3/8" (10mm) inside diameter LPG rubber hose
- A simple needle valve of brass construction (with the exception of the handle and nitrile 'O' rings)
- The design of the valve spindle enables control of the flow medium
- The design incorporates a 'foot plate' with 2 countersunk holes allowing the valve to be mounted securely against a floor, wall or panel
- Designed for low pressure hydraulic and pneumatic applications
- Maximum working pressure: 100 PSI / 6.8 Bar
- Working temperature range: -40° C to +135°C



Needle Valve-Foot Mounted-Tube-Hose

### NEEDLE VALVE-FOOT MOUNTED-TUBE-HOSE-IMPERIAL

Part No	Tube OD.	Hose ID.	L1 Length	L2 Length	H Hex A/F
WVA4/B/16/F1	1/4	3/8	2.468	1.562	0.601

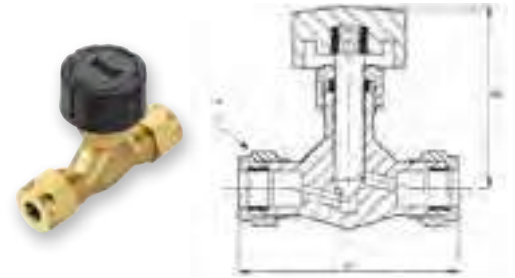
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# Compression Fittings

## PLUG COCKS & NEEDLE VALVES

### FEATURES & BENEFITS

- In-line configuration
- Enables connection of 2 tubes of the same outside diameter
- A simple needle valve of brass construction (with the exception of the handle and nitrile 'O' rings)
- The design of the valve spindle enables control of the flow medium
- Designed for low and medium pressure hydraulic and pneumatic applications
- Maximum working pressure:  
Hydraulic applications: 3,000 PSI / 200 Bar  
Pneumatic applications: 1,000 PSI / 67 Bar
- Working temperature range: -40° C to +135° C



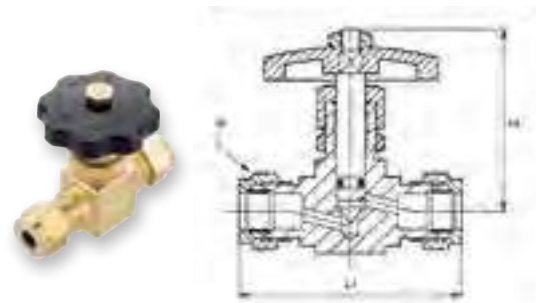
*Straight Needle Valve Tube-Tube-Imperial*

### STRAIGHT NEEDLE VALVE TUBE-TUBE-IMPERIAL

Part No	Spindle Type	Tube OD.	L1 Length	L2 Length	H Hex A/F
WVA1/SS/12	Stainless Steel	3/16	1.687	1.25	0.445
WVA1/B/16	Brass	1/4	2.125	1.7	0.601
WVA1/B/20	Brass	5/16	2.125	1.7	0.601

### FEATURES & BENEFITS

- In-line configuration
- Enables connection of 2 tubes of the same outside diameter
- A simple needle valve of brass construction (with the exception of the handle and nitrile 'O' rings)
- The design of the valve spindle enables control of the flow medium
- The design incorporates a simple locknut mechanism enabling the valve to be secured and locked in place through a control panel.
- Designed for low and medium pressure hydraulic and pneumatic applications
- Maximum working pressure:  
Hydraulic applications: 3,000 PSI / 200 bar  
Pneumatic applications: 1,000 PSI / 67 bar
- Working temperature range: - 40° C to + 135° C



*Straight Needle Valve Panel Mounting Tube- Tube-Imperial*

### STRAIGHT NEEDLE VALVE PANEL MOUNTING TUBE-TUBE-IMPERIAL

Part No	Spindle Type	Tube OD.	L1 Length	L2 Length	H Hex A/F	Max Bulkhead	Bulkhead Hole Dia
WVA2/B/16	Brass	1/4	2.125	1.7	0.601	1/8	0.531 (17/32")
WVA2/B/20	Brass	5/16	2.125	1.7	0.601	1/8	0.531 (17/32")

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# Compression Fittings

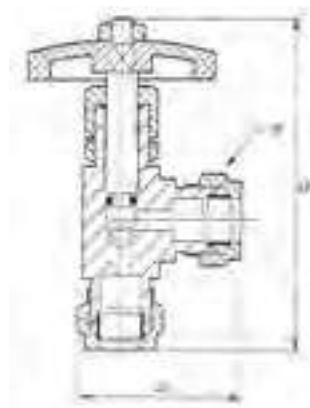
## PLUG COCKS & NEEDLE VALVES

### FEATURES & BENEFITS

- 90° configuration
- Enables connection of 2 tubes of the same outside diameter
- A simple needle valve of brass construction (with the exception of the handle and nitrile 'O' rings)
- The design of the valve spindle enables control of the flow medium
- The design incorporates a simple locknut mechanism enabling the valve to be secured and locked in place through a control panel.
- Designed for low and medium pressure hydraulic and pneumatic applications
- Maximum working pressure:  
Hydraulic applications: 3,000 PSI / 200 Bar  
Pneumatic applications: 1,000 PSI / 67 Bar
- Working temperature range: -40° C to +135° C



Angle Needle Valve Panel Mounting Tube-Tube-Imperial



### ANGLE NEEDLE VALVE PANEL MOUNTING TUBE-TUBE-IMPERIAL

Part No	Spindle Type	Tube OD.	L1 Length	L2 Length	H Hex A/F	Max Bulkhead	Bulkhead Hole Dia
WVA3/B/16	Brass	1/4	1.2	2.75	0.601	3/16	0.562 (9/16")
WVA3/B/20	Brass	5/16	1.2	2.75	0.601	3/16	0.562 (9/16")

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# Compression Fittings

## ADAPTORS

### FEATURES & BENEFITS

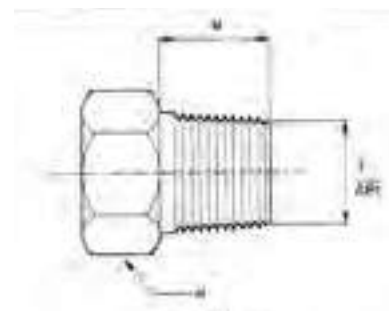
- A range of screwed plugs including; BSP parallel, BSP taper and API thread options
- Providing a blanking solution, these plugs are designed to be screwed into a mating female threaded port to blank off the aperture



*Screwed Plug-API-Imperial*



*Screwed Plug-BSPT-Imperial*



### SCREWED PLUG-API-IMPERIAL

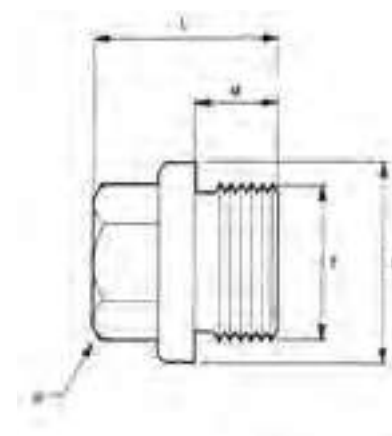
Part No	T Stud Size	H Hex A/F	M Stud Length
587/1	1/8	0.437	0.437
587/2	1/4	0.562	0.5
587/3	3/8	0.687	0.625
587/4	1/2	0.875	0.718

### SCREWED PLUG-BSPT-IMPERIAL

Part No	T Stud Size	H Hex A/F	M Stud Length
587/9	1/8	0.445	0.437
587/10	1/4	0.601	0.5
587/11	3/8	0.82	0.625
587/12	1/2	0.92	0.718



*Screwed Plug-BSP Parallel-Imperial*



### SCREWED PLUG-BSP PARALLEL-IMPERIAL

Part No	T Stud Size	M Stud Length	L Length	H Hex A/F	S Diameter
884/1	1/8	0.25	0.531	0.445	0.671
884/2	1/4	0.25	0.593	0.525	0.812
884/3	3/8	0.312	0.703	0.6	0.968
884/4	1/2	0.343	0.781	0.71	1.14
884/6	3/4	0.375	0.89	0.92	1.421
884/8	1	0.406	1.015	1.1	1.671

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# Compression Fittings

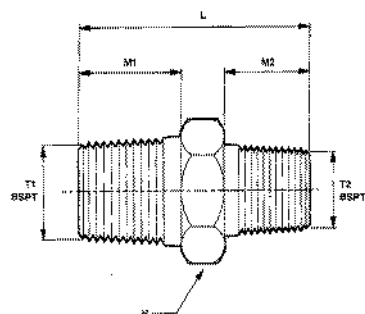
## ADAPTORS

### FEATURES & BENEFITS

- A range of brass BSP taper male to male threaded adaptors
- Providing a jointing solution where 2 component parts with mating BSP taper or BSP parallel BS21 female threads need to be connected



Hexagon Nipple-BSPT

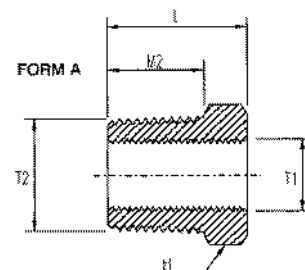


### FEATURES & BENEFITS

- A range of brass BSP taper male to BSP Parallel female threaded adaptors. When screwed onto a BSP parallel male stud thread they convert that end to BSP taper male
- Providing a jointing solution where one component part with a mating BSP parallel male BS2779 thread needs to be connected to another component part with a larger mating BSP taper or BSP parallel BS21 female thread



Male BSPT To Female BSPP Adaptor-Form A



## HEXAGON NIPPLE-BSPT

Part No	T1 Stud	T2 Stud	M1 Length	M2 Length	Length	H Hex A/F
MA083/083	1/8	1/8	8.5	8.5	21	11
MA163/083	1/4	1/8	12.5	8.5	26	14
MA163/163	1/4	1/4	12.5	12.5	30	14
MA243/163	3/8	1/4	13	12.5	30.5	17
MA243/243	3/8	3/8	13	13	31	17
MA323/163	1/2	1/4	17	12.5	36	22
MA323/243	1/2	3/8	17	13	36.5	22
MA323/323	1/2	1/2	17	17	40.5	22
MA483/323	3/4	1/2	18	17	42.5	27
MA483/483	3/4	3/4	18	18	43.5	27

## MALE BSPT TO FEMALE BSPP ADAPTOR-FORM A

Part No	T1 Female BSPP	T2 Male BSPT	L Length	M2 Length	H Hex A/F
MRB082/163	1/8	1/4	17.5	12.5	14
MRB082/243	1/8	3/8	18.5	13	17
MRB162/243	1/4	3/8	18.5	13	17
MRB162/323	1/4	1/2	23.5	17	22
MRB242/323	3/8	1/2	23.5	17	22
MRB242/483	3/8	3/4	27	18	27
MRB322/483	1/2	3/4	27	18	27

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# Compression Fittings

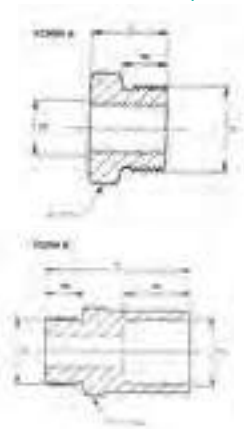
## ADAPTORS

### FEATURES & BENEFITS

- A range of brass BSP parallel male to BSP parallel female threaded adaptors
- Providing a jointing solution where one component part with a mating BSP parallel BS2779 male thread needs to be connected to another component part with a mating BSP parallel BS2779 Female thread



Male BSP Parallel To Female  
BSP Parallel Adaptor

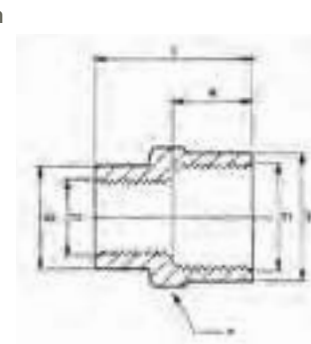


### FEATURES & BENEFITS

- A range of brass BSP parallel female to BSP parallel female threaded adaptors
- Providing a jointing solution where 2 component parts with mating BSP parallel BS2779 male threads need to be connected



Female To Female Adaptor-  
BSP Parallel



## MALE BSP PARALLEL TO FEMALE BSP PARALLEL ADAPTOR

Part No	T1 Male Stud	T2 Female Stud	L Length	M1 Length	M2 Length	H Hex A/F	Form
I21HEX	1/8	1/4	0.687	0.25	0.312	0.71	B
I23HEX	1/4	1/4	0.75	0.25	0.343	0.71	B
I24HEX	1/4	3/8	0.812	0.312	0.343	0.82	B
I25HEX	1/4	1/2	0.875	0.375	0.343	1.01	B
I30	1/4	1/8	0.531	N/A	0.312	0.6	A
I31	3/8	1/8	0.625	N/A	0.375	0.82	A
I32	3/8	1/4	0.625	N/A	0.375	0.82	A
I33	1/2	1/8	0.687	N/A	0.437	0.92	A
I34	1/2	1/4	0.687	N/A	0.437	0.92	A
I35	1/2	3/8	0.687	N/A	0.437	0.92	A

## FEMALE TO FEMALE ADAPTOR-BSP PARALLEL

Part No	T1 Female	T2 Female	L Length	M Length	S1 Diameter	S2 Diameter	H Hex A/F
I10	1/8	1/8	0.875	N/A	0.531	0.531	0.6
I11	1/4	1/8	0.875	0.437	0.656	0.531	0.71
I12	1/4	1/4	1	N/A	0.656	0.656	0.71
I13	3/8	1/8	0.937	0.5	0.781	0.531	0.82
I14	3/8	1/4	1	0.5	0.781	0.656	0.82
I15	3/8	3/8	1.125	N/A	0.781	0.781	0.82
I17	1/2	1/4	1.125	0.625	0.953	0.656	1.01
I18	1/2	3/8	1.187	0.625	0.953	0.75	1.01
I19	1/2	1/2	1.375	N/A	0.953	0.953	1.01

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# Compression Fittings

## ADAPTORS

### FEATURES & BENEFITS

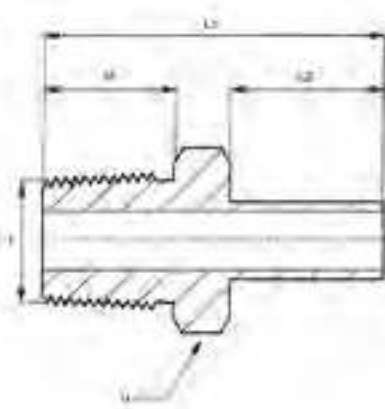
- A range of brass BSP taper male standpipe adaptors
- Providing a jointing solution where a component with a standard compression end needs to be connected to another component part with a mating BSP taper or BSP parallel BS21 female thread
- The standpipe feature allows rotational adjustment enabling the standpipe stem to be jointed with a corresponding compression end, in any alignment within a 360° turning circle
- The stem feature of the standpipe enables the conversion of a corresponding compression end into a BSP taper male stud thread connection



Standpipe Adaptor  
BSPT Male-Metric



Standpipe Adaptor  
BSPT Male-Imperial



### STANDPIPE ADAPTOR BSPT MALE-METRIC

Part No	Standpipe Diameter	T BSPT Male	M Stud Length	L1 Length	L2 Length	H Hex A/F
MSA06/163	6	1/4	12.5	33	15.5	14
MSA08/163	8	1/4	12.5	34	16.5	14
MSA10/163	10	1/4	12.5	34.5	17	14
MSA10/243	10	3/8	13	35.5	17	19
MSA12/323	12	1/2	17	40.5	17	22

### STANDPIPE ADAPTOR BSPT MALE-IMPERIAL

Part No	Standpipe Diameter	T BSPT Male	M Stud Length	L1 Length	L2 Length	H Hex A/F
SA03/083	1/4	1/8	0.343	1.25	0.75	0.445
SA03/163	1/4	1/4	0.5	1.437	0.75	0.601

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# Compression Fittings

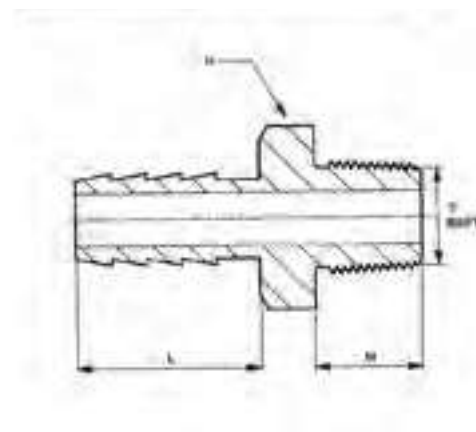
## HOSE TAILS

### FEATURES & BENEFITS

- A range of brass BSP taper male hose tail adaptors, swivel nut hose nozzle adaptors and hose repairers
- Providing a quick and easy connection with soft nylon, plastic and PVC tubing
- Designed for use with compressed air, water, oils and fluids on low pressure hydraulic and pneumatic applications
- The hose connection is made by pushing the end of the tube over the barbed hose tail stem, securing it into place with a jubilee clip or 'O'clip



*Hose Tail Adaptor BSPT Male-Imperial*



### HOSE TAIL ADAPTOR BSPT MALE-IMPERIAL

Part No	To Suit Hose Bore	T BSPT Male	M Length	L Length	H Hex A/F
HT01/083	3/16	1/8	8.5	23.5	11
HT03/083	1/4	1/8	8.5	23.5	11
HT05/083	5/16	1/8	8.5	23.5	11
HT08/083	3/8	1/8	8.5	23.5	11
HT01/163	3/16	1/4	12.5	23.5	14
HT03/163	1/4	1/4	12.5	23.5	14
HT05/163	5/16	1/4	12.5	23.5	14
HT08/163	3/8	1/4	12.5	23.5	14
HT11/163	1/2	1/4	12.5	34.5	17
HT03/243	1/4	3/8	13	23.5	17
HT05/243	5/16	3/8	13	23.5	17
HT08/243	3/8	3/8	13	23.5	17
HT11/243	1/2	3/8	13	34.5	17
HT13/243	5/8	3/8	13	34.5	17
HT03/323	1/4	1/2	17	23.5	22
HT05/323	5/16	1/2	17	23.5	22
HT08/323	3/8	1/2	17	23.5	22
HT11/323	1/2	1/2	17	34.5	22
HT13/323	5/8	1/2	17	34.5	22
HT14/323	3/4	1/2	17	34.5	22
HT11/483	1/2	3/4	18	34.5	27
HT14/483	3/4	3/4	18	34.5	27
HT17/483	1	3/4	18	34.5	27
HT14/643	3/4	1	21.5	34.5	36
HT17/643	1	1	21.5	34.5	36

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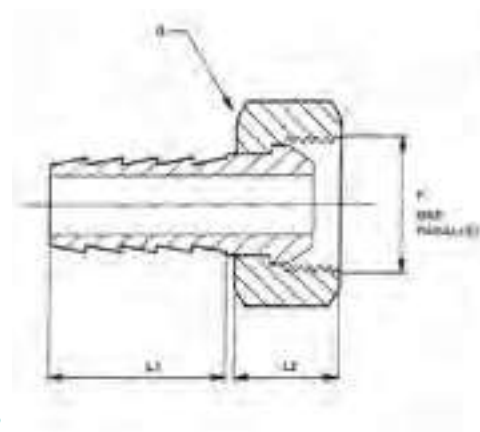


# Compression Fittings

## HOSE TAILS

### FEATURES & BENEFITS

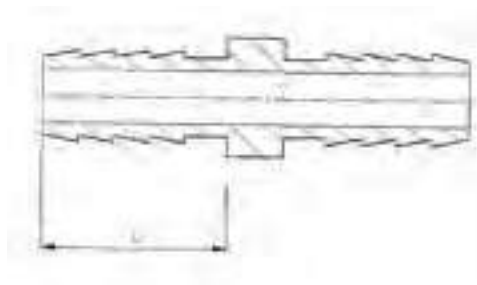
- A range of brass BSP taper male hose tail adaptors, swivel nut hose nozzle adaptors and hose repairers
- Providing a quick and easy connection with soft nylon, plastic and PVC tubing
- Designed for use with compressed air, water, oils and fluids on low pressure hydraulic and pneumatic applications
- The hose connection is made by pushing the end of the tube over the Barbed hose tail stem, securing it into place with a jubilee clip or 'O'clip



*Hose Nozzle Adaptor With BSP  
Female Swivel Nut-Imperial*

### HOSE NOZZLE ADAPTOR WITH BSP FEMALE SWIVEL NUT-IMPERIAL

Part No	To Suit Hose Bore	T BSP Female	L1 Length	L2 Length	H Hex A/F
HSW03/162	1/4	1/4	1	0.5	0.6
HSW05/162	5/16	1/4	1	0.5	0.6
HSW08/242	3/8	3/8	1	0.531	0.82
HSW11/322	1/2	1/2	1	0.593	1.011



*Hose Repairer-Imperial*

### HOSE REPAIRER-IMPERIAL

Part No	To Suit Hose Bore	L Length
HREP/01	3/16	20
HREP/03	1/4	24.5
HREP/05	5/16	24.5
HREP/08	3/8	24.5
HREP/11	1/2	35
HREP/14	3/4	35
HREP/17	1	35

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# Compression Fittings

## HOSE TAILS

### FEATURES & BENEFITS

- A range of brass 'Fulham' rubber hose nozzle adaptors with BSP parallel male, BSP parallel female and BSP taper male stud thread connections
- Providing a quick and easy male or female stud thread connection with 3/8" inside diameter LPG rubber hose
- Enabling hose connection to mating BSP parallel BS2779, BSP taper or BSP parallel BS21 female threaded ports and BSP parallel male stud threads
- The hose connection is made by pushing the end of the tube over the hose tail stem, securing it into place with a jubilee clip or 'O'clip
- Designed for use on low pressure LPG and natural gas applications, particularly within the caravan and leisure industry



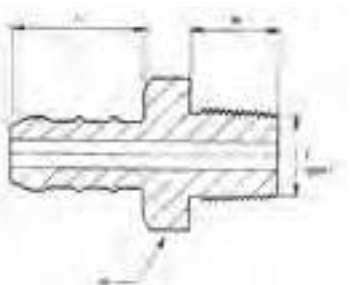
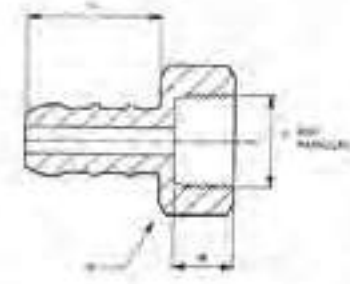
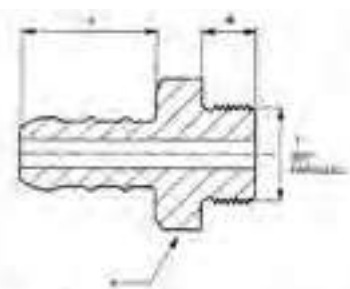
*'Fulham' Rubber Hose Nozzle Adaptor  
BSP Parallel Male-Imperial*



*'Fulham' Rubber Hose Nozzle Adaptor  
BSP Parallel Female-Imperial*



*'Fulham' Rubber Hose Nozzle Adaptor-  
BSP Taper Male-Imperial*



### 'FULHAM' RUBBER HOSE NOZZLE ADAPTOR BSP PARALLEL MALE-IMPERIAL

Part No	To Suit Hose Bore	T BSP Male	M Length	L Length	H Hex A/F
F100	3/8" (10mm)	1/8	0.35	0.93	0.445
F101	3/8" (10mm)	1/4	0.35	0.93	0.601
F105	3/8" (10mm)	3/8	0.375	0.93	0.71

### 'FULHAM' RUBBER HOSE NOZZLE ADAPTOR-BSP PARALLEL FEMALE-IMPERIAL

Part No	To Suit Hose Bore	T BSP Female	M Length	L Length	H Hex A/F
F102	3/8" (10mm)	1/8	0.359	0.93	0.445
F103	3/8" (10mm)	1/4	0.39	0.93	0.601
F104	3/8" (10mm)	3/8	0.421	0.93	0.82

### FULHAM' RUBBER HOSE NOZZLE ADAPTOR-BSP TAPER MALE-IMPERIAL

Part No	To Suit Hose Bore	T BSPT Male	M Length	L Length	H Hex A/F
F700	3/8" (10mm)	1/8	0.375	0.93	0.445
F701	3/8" (10mm)	1/4	0.437	0.93	0.525
F705	3/8" (10mm)	3/8	0.5	0.93	0.71

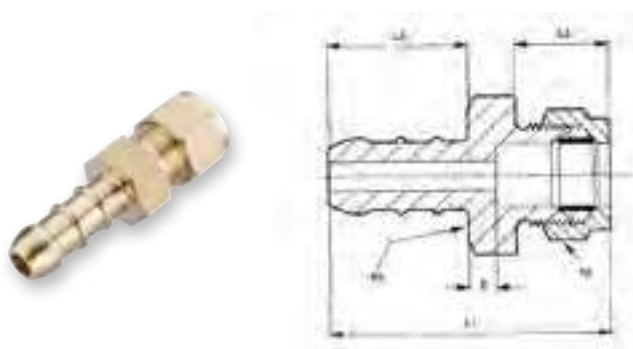
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# Compression Fittings

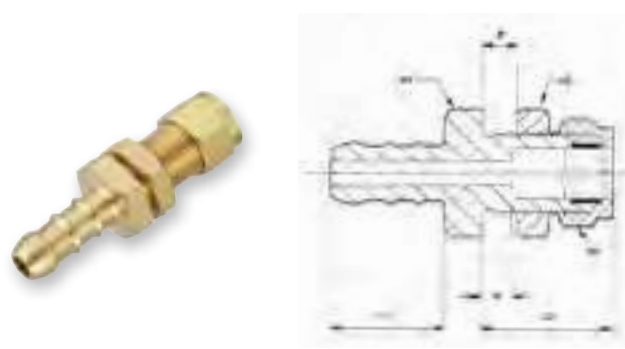
## HOSE TAILS

### FEATURES & BENEFITS

- A range of brass 'Fulham' rubber hose nozzle adaptors with compression ends to suit copper tube. The range includes a bulkhead option
- Providing a quick and easy copper tube connection with 3/8" inside diameter LPG rubber hose
- Enabling hose connection to mating BSP parallel BS2779, BSP taper or BSP parallel BS21 female threaded ports and BSP parallel male stud threads
- The hose connection is made by pushing the end of the tube over the hose tail stem, securing it into place with a jubilee clip or 'O'clip
- Designed for use on low pressure LPG and natural gas applications, particularly within the caravan and leisure industry



'Fulham' Rubber Hose Nozzle Adaptor-Imperial



'Fulham' Rubber Hose Nozzle Bulkhead Adaptor-Imperial

### 'FULHAM' RUBBER HOSE NOZZLE ADAPTOR-IMPERIAL

Part No	To Suit Hose Bore	Tube OD.	L1 Length	L2 Length	L3 Length	H1 Hex A/F	H2 Hex A/F	P Abutment
F101A	3/8" (10mm)	1/4	1.761	0.93	0.531	0.601	0.601	0.275
F101A/5/16	3/8" (10mm)	5/16	1.885	0.93	0.655	0.601	0.601	0.275
F105A	3/8" (10mm)	3/8	1.823	0.93	0.593	0.71	0.82	0.25
F101/1011	3/8" (10mm)	1/2	2.007	0.93	0.777	0.92	0.92	0.175

### 'FULHAM' RUBBER HOSE NOZZLE BULKHEAD ADAPTOR-IMPERIAL

Part No	To Suit Hose Bore	Tube OD.	L1 Length	L2 Length	H1 Hex A/F	H2 Hex A/F	H3 Hex A/F	P Abutment	B Max Bulkhead	Bulkhead Hole Dia
F101/L4	3/8" (10mm)	1/4	0.93	1.125	0.71	0.601	0.71	0.437	1/4	0.531 (17/32")
F101/L4/5/16	3/8" (10mm)	5/16	0.93	1.125	0.71	0.601	0.71	0.437	1/4	0.531 (17/32")
F105A/L4	3/8" (10mm)	3/8	0.93	1.093	0.82	0.82	0.82	0.437	1/4	0.672 (43/64")

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# Compression Fittings

## COMPRESSION NUTS

### FEATURES & BENEFITS

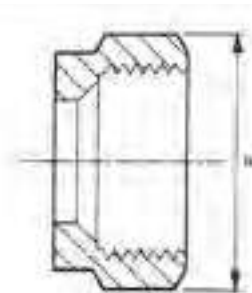
- A range of imperial and metric brass compression nuts with BSP Parallel and metric female threads
- Designed for use with imperial and metric outside diameter plain copper and nylon tubes
- Specifically designed for use in combination with Wade bodies and compression rings, we cannot recommend interchangeability with other brands



Compression Nut-Imperial



Compression Nut-Metric



### COMPRESSION NUT-IMPERIAL

Part No	Tube OD.	Thread Size & Type	H Hex A/F
WUNI000	1/8	1/8" BSP	0.445
WUNI001	3/16	1/8" BSP	0.445
WUNI003	1/4	1/4" BSP	0.601
WUNI005	5/16	1/4" BSP	0.601
WUNI008	3/8	3/8" BSP	0.82
WUNI011	1/2	1/2" BSP	0.92
I013	5/8	3/4" BSP	1.2
I014	3/4	7/8" BSP	1.39
I017	1	1.461" X 11 WHIT	1.67

### COMPRESSION NUT-METRIC

Part No	Tube OD.	Thread Size & Type	H Hex A/F
WMUNI04	4	M8 x 1	10
WMUNI05	5	M10 x 1	12
WMUNI06	6	M10 x 1	12
WMUNI08	8	M12 x 1	14
WMUNI10	10	M16 x 1.5	19
WMUNI12	12	M18 x 1.5	22
MNI15	15	M20 x 1.5	24
MNI16	16	M22 x 1.5	27
MNI18	18	M24 x 1.5	30
MNI20	20	M27 x 1.5	32
MNI22	22	M30 x 1.5	36
MNI25	25	M33 x 1.5	41

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# Compression Fittings

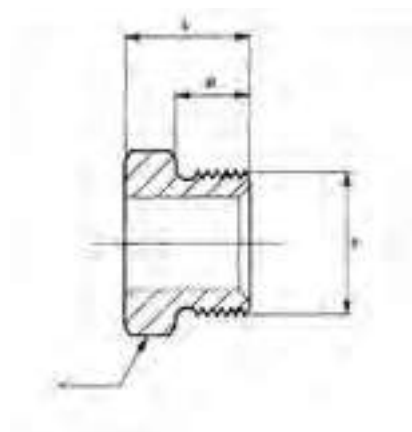
## COMPRESSION NUTS

### FEATURES & BENEFITS

- A brass compression nut with BSP parallel male thread
- Designed for use with 1/4" od imperial outside diameter plain copper and nylon tube and female threaded seating. The seating dimensions, which can be machined into a unit or manifold block, are available on request.
- Specifically designed for use in combination with Wade compression rings, we cannot recommend interchangeability with other brands



Inner Nut-Imperial



### INNER NUT-IMPERIAL

Part No	Tube OD.	T Thread	M Length	L Length	H Hex A/F
4003	1/4	1/4" BSP	0.312	0.5	0.525

### FEATURES & BENEFITS

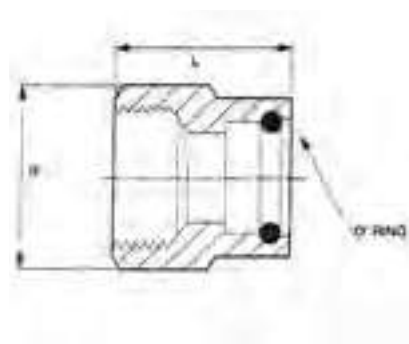
- A range of brass compression nuts with BSP Parallel and metric parallel female threads
- Designed for use with imperial and metric outside diameter PVC covered copper and nylon tubes
- This original Wade design prevents atmospheric corrosion and contamination within the joint and also protects the ends of the outer PVC cover from damage
- Specifically designed for use in combination with Wade bodies and compression rings, we cannot recommend interchangeability with other brands



'Pc' Compression Nut For Pvc Covered Copper Tube-Imperial



'Pc' Compression Nut For Pvc Covered Copper Tube-Metric



### 'PC' COMPRESSION NUT FOR PVC COVERED COPPER TUBE-IMPERIAL

Part No	Tube OD.	PVC Cover OD.	Thread Size & Type	L Length	H Hex A/F	P Abutment	'O' Ring
PC 1003	1/4	3/8	1/4" BSP	0.937	0.601	0.437	M308
PC 1008	3/8	1/2	3/8" BSP	1.093	0.82	0.562	M310
PC 1011	1/2	5/8	1/2" BSP	1.203	0.92	0.625	M312

### 'PC' COMPRESSION NUT FOR PVC COVERED COPPER TUBE-METRIC

Part No	Tube OD.	PVC Cover OD.	Thread Size & Type	L Length	H Hex A/F	P Abutment	'O' Ring
MN 406	6	9	M10 x 1	19	14	8	M531
MN 408	8	11	M12 x 1	20.5	17	8	M502
MN 410	10	13	M16 x 1.5	22.5	19	9.5	M503
MN 412	12	15	M18 x 1.5	25	24	12	M504

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# Compression Fittings

## COMPRESSION RINGS

### FEATURES & BENEFITS

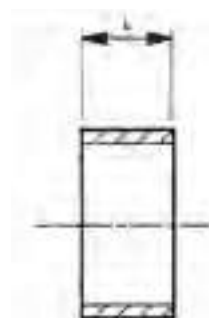
- A range of annealed Copper compression rings designed for use with imperial and metric outside diameter plain copper and PVC covered copper tubes
- Specifically designed for use in combination with Wade bodies and compression nuts, we cannot recommend interchangeability with other brands



*Copper Compression Ring-Imperial*



*Copper Compression Ring-Metric*



### COPPER COMPRESSION RING-IMPERIAL

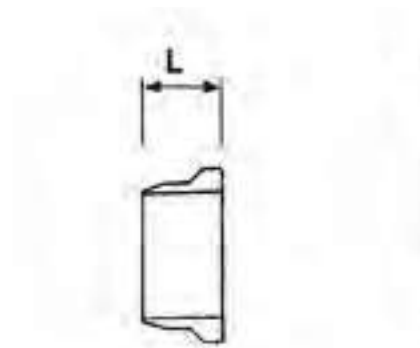
Part No	Tube OD.	L Length
I020	1/8	0.218
I021	3/16	0.218
I023	1/4	0.25
I026	5/16	0.25
I028	3/8	0.281
I031	1/2	0.281
I033	5/8	0.343
I034	3/4	0.343
I036	7/8	0.406
I037	1	0.437

### COPPER COMPRESSION RING-METRIC

Part No	Tube OD.	L Length
MR206	6	6.5
MR208	8	6.5
MR210	10	7
MR212	12	7
MR215	15	7

### FEATURES & BENEFITS

- A range of Brass compression rings designed for use with imperial and metric outside diameter plain copper and nylon tubes
- Specifically designed for use in combination with Wade bodies and compression nuts, we cannot recommend interchangeability with other brands



*Universal Compression Ring-Imperial and Universal Compression Ring-Metric*

### UNIVERSAL COMPRESSION RING-IMPERIAL

Part No	Tube OD.	L Length
WURI020	1/8	0.189
WURI021	3/16	0.222
WURI023	1/4	0.23
WURI026	5/16	0.209
WURI028	3/8	0.272
WURI031	1/2	0.315

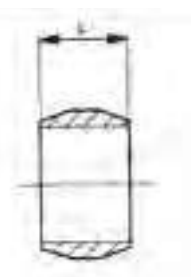
### UNIVERSAL COMPRESSION RING-METRIC

Part No	Tube OD.	L Length
WMURM4	4	4.8
WMURM5	5	5.3
WMURM6	6	5.3
WMURM8	8	5.3
WMURM10	10	7.2
WMURM12	12	7.2

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# Compression Fittings

## COMPRESSION RINGS



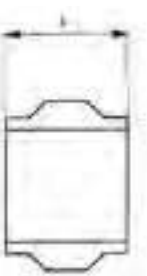
*Brass Compression Ring-Imperial*

### FEATURES & BENEFITS

- A range of brass compression rings designed for use with imperial outside diameter plain copper and PVC covered copper tubes
- Specifically designed for use in combination with Wade bodies and compression nuts, we cannot recommend interchangeability with other brands

### BRASS COMPRESSION RING-IMPERIAL

Part No	Tube OD.	L Length
499/0	1/8	0.218
499/1	3/16	0.218
499/3	1/4	0.25
499/5	5/16	0.25
499/8	3/8	0.281
499/11	1/2	0.312
499/13	5/8	0.312
499/14	3/4	0.406



*Brass Compression Ring-Metric (Type B)*

### FEATURES & BENEFITS

- A range of brass compression rings designed for use with metric outside diameter plain copper and nylon tubes
- Please note that that; this option is not available for imperial outside diameter tubes
- Specifically designed for use in combination with Wade bodies and compression nuts, we cannot recommend interchangeability with other brands



*Brass Compression Ring-Metric (Type A)*

### FEATURES & BENEFITS

- A range of brass compression rings designed for use with metric outside diameter plain copper and PVC covered copper tubes
- Specifically designed for use in combination with Wade bodies and compression nuts, we cannot recommend interchangeability with other brands

### BRASS COMPRESSION RING-METRIC (TYPE A)

Part No	Tube OD.	L Length
MURI04	4	5.5
MURI05	5	6
MURI06	6	6
MURI08	8	6.5
MURI10	10	7.5
MURI12	12	7.5
MURI14	14	8
MURI15	15	8
MURI16	16	8.5
MURI18	18	9
MURI20	20	9
MURI22	22	10
MURI25	25	10

### BRASS COMPRESSION RING-METRIC (TYPE B)

Part No	Tube OD.	L Length
MFR104/N	4	6
MFR105/N	5	6.5
MFR106/N	6	6.5
MFR108/N	8	7
MFR110/N	10	8
MFR112/N	12	8
MFR114/N	14	8.5

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# Compression Fittings

## COMPRESSION RINGS

### FEATURES & BENEFITS

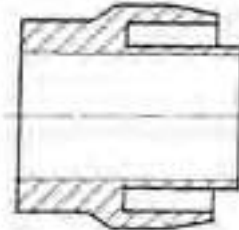
- A range of Brass compression ferrules designed for use with imperial and metric outside diameter nylon tubes
- Specifically designed for use in combination with Wade bodies and compression nuts, we cannot recommend interchangeability with other brands



'N' Ferrule-Imperial



'N' Ferrule-Metric



### 'N' FERRULE-IMPERIAL

Part No	Tube OD.	Tube ID.
Light Gauge		
NI020B/A	1/8	0.095
NI023B/A	1/4	0.19
NI025B/A	5/16	0.242
Medium Gauge		
NI021B/C	3/16	0.117
NI023B/C	1/4	0.17
NI025B/C	5/16	0.212
NI028B/C	3/8	0.265
NI028B/D	3/8	0.25
NI031B/C	1/2	0.35
Heavy Gauge		
NI020B/B	1/8	0.075
NI021B/B	3/16	0.107
NI023B/B	1/4	0.15

### 'N' FERRULE-METRIC

Part No	Tube OD.	Tube ID.
Light Gauge		
MNF706	6	4.5
MNF708	8	6
Medium Gauge		
MNF806	6	4
MNF808	8	5.5
MNF810	10	7
MNF812	12	8.5
MNF816	16	12

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# Compression Fittings

## 'P' TYPE JOINT – COMPRESSION RING, SPIGOT AND COMPRESSION NUT

### FEATURES & BENEFITS

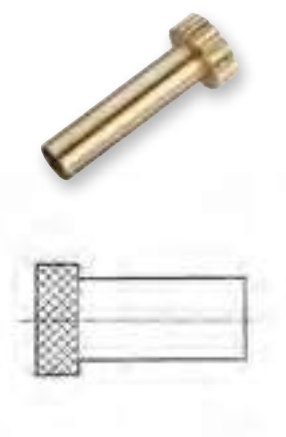
- A range of Polythene compression rings designed for use with imperial outside diameter polytubes
- Specifically designed for use in combination with Wade bodies, compression nuts and supporting spigots, we cannot recommend interchangeability with other brands



*Polythene Compression Ring-Imperial*

### FEATURES & BENEFITS

- A range of brass spigots designed for use with imperial outside diameter polytubes
- When inserted into the abutment of a standard Wade compression end, the spigot provides a support for the internal wall of the polytube, preventing collapse
- Specifically designed for use in combination with Wade bodies, compression nuts and rings, we cannot recommend interchangeability with other brands



*Knurled Spigot-Imperial*

### POLYTHENE COMPRESSION RING-IMPERIAL

Part No	Tube OD.	L Length
P1023	1/4	0.29
P1028	3/8	0.29

### KNURLED SPIGOT-IMPERIAL

Part No	Tube OD.	Tube ID.
P1023B	1/4	0.156
P1028B	3/8	0.25

### FEATURES & BENEFITS

- A range of brass compression nuts with BSP Parallel female threads
- Designed for use with imperial outside diameter polytubes
- The knurled external face enables hand tightening to make the joint
- Specifically designed for use in combination with Wade bodies and compression rings, we cannot recommend interchangeability with other brands



*Knurled Compression Nut-Imperial*

### KNURLED COMPRESSION NUT-IMPERIAL

Part No	Tube OD.	Thread
P1003	1/4	1/4" BSP
P1008	3/8	3/8" BSP

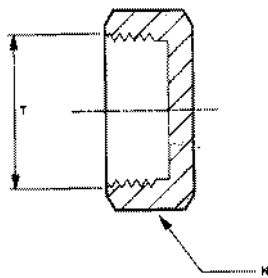
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# Compression Fittings

## BLANKING SOLUTIONS



Blanking Nut-Imperial



### FEATURES & BENEFITS

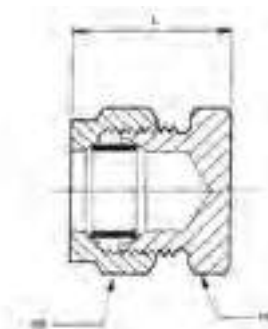
- A range of brass blanking nuts with BSP parallel female threads
- Designed to provide a blanking solution, sealing an imperial compression end on standard Wade brass compression fitting assemblies.
- Specifically designed for use with Wade bodies, we cannot recommend interchangeability with other brands
- Please note this option is not available for metric od compression ends

### BLANKING NUT-IMPERIAL

Part No	For Wade Compression End	Thread Size & Type	H Hex A/F
I001BL	1/8" OD. & 3/16" OD.	1/8" BSP	0.445
I003BL	1/4" OD. & 5/16" OD.	1/4" BSP	0.601
I008BL	3/8" OD.	3/8" BSP	0.82
I011BL	1/2" OD.	1/2" BSP	0.92



Blanking End-Imperial



### FEATURES & BENEFITS

- A range of brass blanking ends with standard imperial od Wade compression ends
- Designed to provide a blanking solution, sealing sectioned or open lengths of imperial od copper and nylon tubes

### BLANKING END-IMPERIAL

Part No	Tube OD.	L Length	H1 Hex A/F	H2 Hex A/F
I103	1/4	0.718	0.525	0.601
I105	5/16	0.718	0.525	0.601
I108	3/8	0.812	0.71	0.82



Blanking Plug-Metric

### FEATURES & BENEFITS

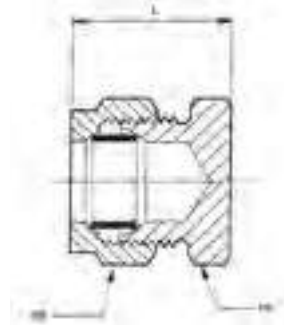
- A range of solid brass blanking plugs
- Designed to provide a blanking solution, sealing a metric compression end on standard Wade brass compression fitting assemblies. By replacing the compression ring within an assembly the plug fills the void between the compression nut and body. The flow is blanked off by tightening the compression nut
- Specifically designed for use in combination with Wade bodies and compression nuts, we cannot recommend interchangeability with other brands
- Please note this option is not available for imperial od compression ends

### BLANKING PLUG-METRIC

Part No	Tube OD.	L Length
MCP06	6	12.5
MCP08	8	13.5
MCP10	10	14.5
MCP12	12	14.5



Blanking End-Metric



### FEATURES & BENEFITS

- A range of brass blanking ends with standard metric od Wade compression ends
- Designed to provide a blanking solution, sealing sectioned or open lengths of metric od copper and nylon tubes

### BLANKING END-METRIC

Part No	Tube OD.	L Length	H1 Hex A/F	H2 Hex A/F
MSE106	6	20	11	12
MSE108	8	22.5	13	14
MSE110	10	23.5	17	19
MSE112	12	24.5	19	22

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# Compression Fittings

## ACCESSORIES

### FEATURES & BENEFITS

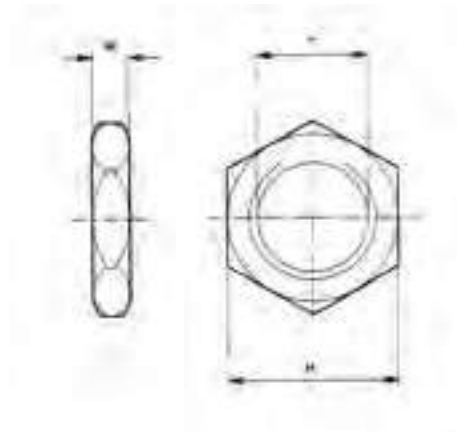
- A range of brass locknuts with BSP Parallel and metric female threads
- Available as component parts these locknuts are also used on our Wade imperial and metric bulkhead coupling assemblies



*Locknut-Imperial*



*Locknut-Metric*



### LOCKNUT-IMPERIAL

Part No	T Thread	H Hex A/F	W Thickness
828/1	1/8" BSP	0.525	0.156
828/2	1/4" BSP	0.71	0.187
828/3	3/8" BSP	0.82	0.187
828/4	1/2" BSP	1.01	0.187
828/6	3/4" BSP	1.2	0.218
828/8	1" BSP	1.48	0.312

### LOCKNUT-METRIC

Part No	T Thread	H Hex A/F	W Thickness
ML10X10	M10 x 1	12	4
ML 12X10	M12 x 1	14	4
ML16 X 15	M16 x 1.5	19	5
ML18X15	M18 x 1.5	22	5
ML20 X 15	M20 x 1.5	24	5
ML30X15	M30 x 1.5	36	7

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# Compression Fittings

## ACCESSORIES

### FEATURES & BENEFITS

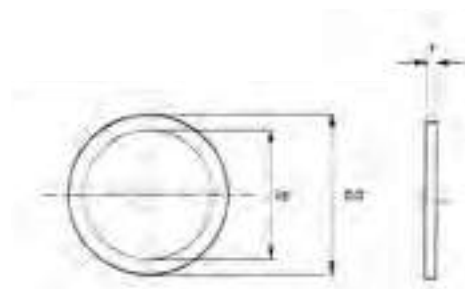
- A range of imperial and metric annealed copper sealing washers
- Designed to create a seal between mating BSP Parallel and metric, male and female stud threads where pressure-tight joints are not made on the threads



Copper Washer-Imperial



Copper Washer-Metric



### COPPER WASHER-IMPERIAL

Part No	To Suit Thread Size & Type	OD.	ID.	T Thickness
M351	1/8" BSP Male & 3/8" BSP Female	0.58	0.393	0.062
M352	1/4" BSP Male & 1/2" BSP Female	0.72	0.527	0.062
M353	3/8" BSP Male & 3/4" BSP Female	0.925	0.675	0.062
M354	1/2" BSP Male & 7/8" BSP Female	1.093	0.83	0.062
M355	5/8" BSP Male & 1" BSP Female	1.187	0.91	0.093
M359	1-1/8" BSP Male & 1-1/2" BSP Female	1.761	1.505	0.093
M356	3/4" BSP Male	1.25	1.05	0.093
M357	7/8" BSP Male	1.38	1.2	0.093
M358	1" BSP Female	1.53	1.32	0.093
M362	1/8" BSP Female	0.33	0.187	0.031
M363	1/4" BSP Female	0.437	0.263	0.062
M364	5/8" BSP Female	0.8	0.64	0.062

### COPPER WASHER-METRIC

Part No	To Suit Thread Size	To Suit Alternative Thread Size	OD.	ID.	T Thickness
MW2/8M	8mm Male	N/A	11	8.3	1
MW2/10M	10mm Male	1/8" BSP Male	13.5	10.3	1
MW2/12M	12mm Male	N/A	15.5	12.3	1.5
MW2/14M	14mm Male	1/4" BSP Male	18	14.2	1.5
MW2/16M	16mm Male	N/A	20	16.2	1.5
MW2/22M	22mm Male	N/A	27	22.3	1.5

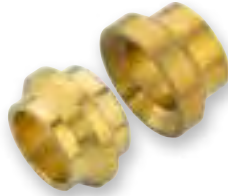
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# Compression Fittings

## ACCESSORIES

### FEATURES & BENEFITS

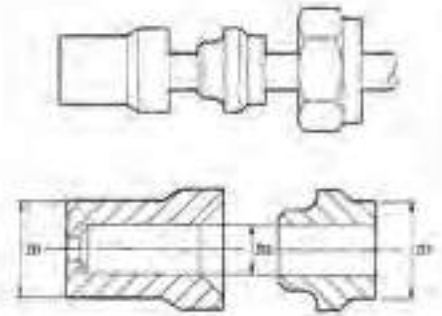
- A range of 2 and 3 piece brass reducing sets
- The reducing set enables the adaptation of a standard Wade metric compression end for use with a smaller outside diameter metric tube



*Tube Reducing Set-2 Piece-Metric*



*Tube Reducing Set-3 Piece-Metric*



### TUBE REDUCING SET-2 PIECE-METRIC

Part No	D1 Diameter	D2 Diameter
MRA06/104	6	4
MRA08/106	8	6
MRA10/106	10	6
MRA10/108	10	8
MRA12/108	12	8
MRA12/110	12	10

### TUBE REDUCING SET-3 PIECE-METRIC

Part No	D1 Diameter	D2 Diameter
GMRA12/108	12	8
GMRA15/108	15	8
GMRA15/110	15	10
GMRA15/112	15	12
GMRA22/112	22	12
GMRA22/115	22	15
GMRA28/108	28	8
GMRA28/112	28	12
GMRA28/115	28	15
GMRA28/122	28	22

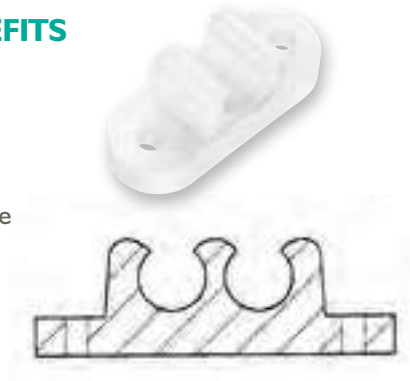
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# Compression Fittings

## ACCESSORIES

### FEATURES & BENEFITS

- A range of nylon tube clips
- These tube clips enable both single and multiple tubes of the same outside diameter to be secured to a wall, panel or floor



Nylorack Tube Clips-Imperial & Metric

### FEATURES & BENEFITS

- A range of mild steel, zinc plated tube clips
- 'O' clips are suitable for use on lower pressure applications enabling the securement of flexible PVC hose over barbed hose tail ends



'O' Clips-Imperial & Metric

### NYLORACK TUBE CLIPS-IMPERIAL & METRIC

Part No	Type	To Suit Tube OD. Size
N6/1	1 Way	3/16" & 4mm
N8/1	1 Way	1/4" & 6mm
N10/1	1 Way	5/16" & 8mm
N12/1	1 Way	3/8" & 10mm
N16/1	1 Way	1/2" & 12mm
N6/2	2 Way	3/16" & 4mm
N8/2	2 Way	1/4" & 6mm
N10/2	2 Way	5/16" & 8mm
N12/2	2 Way	3/8" & 10mm
N16/2	2 Way	1/2" & 12mm
N6/3	3 Way	3/16" & 4mm
N8/3	3 Way	1/4" & 6mm
N10/3	3 Way	5/16" & 8mm
N12/3	3 Way	3/8" & 10mm
N6/4	4 Way	3/16" & 4mm
N8/4	4 Way	1/4" & 6mm
N6/5	5 Way	3/16" & 4mm
N12/5	5 Way	3/8" & 10mm
N8/10	10 Way	1/4" & 6mm

### 'O' CLIPS-IMPERIAL & METRIC

Part No	To Suit Tube OD. Size
OC3	3/16" & 4mm
OC4	1/4" & 6mm
OC5	5/16" & 8mm
OC6	3/8" & 10mm
OC7	7/16" & 11mm
OC8	1/2" & 12mm
OC9	9/16" & 14mm
OC10	5/8" & 16mm
OC12	3/4" & 19mm
OC14	7/8" & 22mm
OC16	1" & 25mm

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# Sistem-P Push-In Fittings



# Sistem-P Push-In Fittings

## Technical Introduction

The Wade Sistem-P Fitting system enables quick and easy connection and disconnection easy maintenance.

All Wade Sistem-P fittings are manufactured with a nickel plated finish from lightweight, high strength materials.

The nickel plated finish and robust construction protects against corrosion, making them particularly suitable for food and chemical applications.

### Unique Security Grip

Once the tube is fully inserted into the fitting the unique security grip automatically seals and locks into position, preventing accidental disconnection. The more the tube is pulled, the tighter the grip becomes. The tube can only be released by pushing the release ring.

This design makes the fitting suitable for use on a variety of tubing including nylon and polypropylene.

### Hexagon Feature

The internal hexagon feature on the straight connectors enables the fitter to use a standard Allen key to tighten the fitting when installation is required within confined spaces.

### Technical Characteristics

Maximum working pressure: 16 Bar

Working temperature: -10°C to +80° C

Suitable for use with: Air, Gas and Fluids

### Products in the Sistem-P Fittings Range

Tube to Tube	68
Tube to Male	72
Tube to Female	77
Blanking Plugs	79



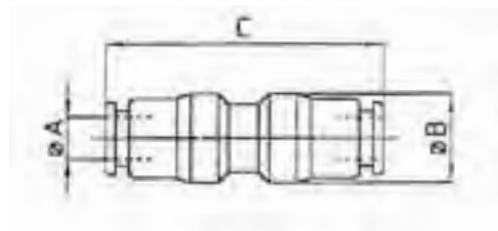


# Sistem-P Push-In Fittings

## TUBE TO TUBE

### FEATURES & BENEFITS

- In-line configuration
- Enables connection of 2 tubes of the same outside diameter



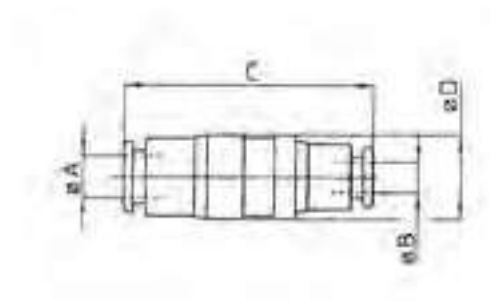
*Equal Ended Coupling*

## EQUAL ENDED COUPLINGS

Part No	A Tube OD.	B Diameter	C Length
500040	4	11	34
500050	5	11	34
500060	6	14	40
500080	8	16	43
500100	10	18	47
500120	12	21	52

### FEATURES & BENEFITS

- In-line configuration
- Enables connection of 2 tubes of different outside diameter



*Unequal Ended Coupling*

## UNEQUAL COUPLINGS

Part No	A Tube OD.	B Tube OD.	C Length	D Diameter
244060	6	4	39	14
244080	8	4	40	16
246080	8	6	42.5	16
244100	10	4	42	18.5
246100	10	6	45	18.5
248100	10	8	46	18.5
248120	12	8	47	21
241120	12	10	51.5	21

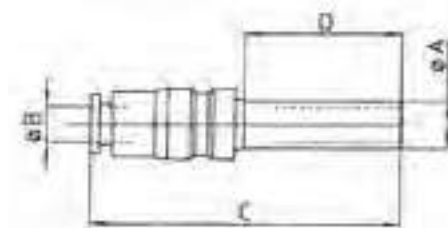
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# Sistem-P Push-In Fittings

## TUBE TO TUBE

### FEATURES & BENEFITS

- In-line configuration
- Enables reduction of the tube connection to suit a tube of smaller outside diameter



## REDUCING STEMS

*Reducing Stems*

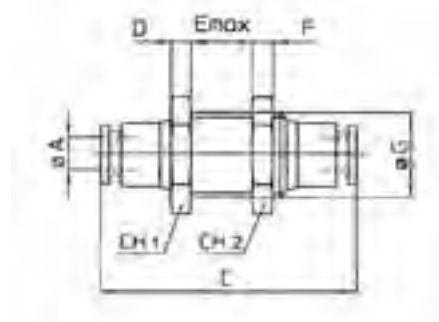
Part No	A Stem Diameter	B Tube OD.	C Length	D Length
254060	6	4	49	22
254080	8	4	53	25
256080	8	6	54	25
254100	10	4	48	28
256100	10	6	51	28
258100	10	8	52.5	28
254120	12	4	53.5	30
256120	12	6	56.5	30
258120	12	8	59.5	30
251120	12	10	61	30

### FEATURES & BENEFITS

- In-line configuration
- Enables connection of 2 tubes of the same outside diameter.
- Designed to connect tubes on either side of a bulkhead panel.
- Provided with a simple locknut mechanism the fitting can be secured and locked in place through the panel



*Equal Ended Bulkhead Connectors*



## EQUAL ENDED BULKHEAD CONNECTORS

Part No	A Tube OD.	C Length	CH1 Hex A/F	CH2 Hex A/F	E Maximum	G Male Thread
800040	4	38	13	14	4	M12 x 1
800060	6	46	18	18	4	M15 x 1
800080	8	49	20	20	4	M17 x 1
800100	10	53	22	22	4	M20 x 1.5
800120	12	53	25	25	4.5	M22 x 1.5

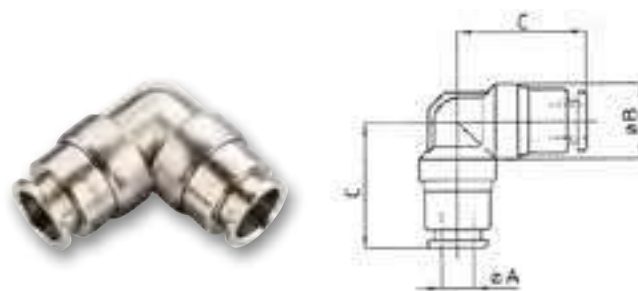
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# Sistem-P Push-In Fittings

## TUBE TO TUBE

### FEATURES & BENEFITS

- 90° Elbow configuration
- Enables connection of 2 tubes of the same outside diameter



Equal Elbows

### EQUAL ELBOWS

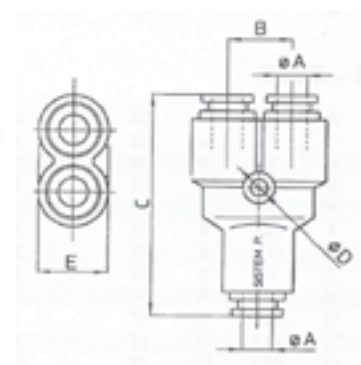
Part No	A Tube OD.	B Diameter	C Length
600040	4	10	19
600050	5	11	20
600060	6	13	23
600080	8	15	25
600100	10	17.5	28.5
600120	12	21.5	31.5

### FEATURES & BENEFITS

- 'Y' configuration
- Enables connection of 3 tubes of the same outside diameter



Equal Ended 'Y' Pieces



### EQUAL ENDED 'Y' PIECES

Part No	A Tube OD.	B Length	C Length	D Diameter	E Width
510040	4	10	35	3.2	11
510060	6	13	45	3.2	14
510080	8	17	51.5	4.2	16

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# Sistem-P Push-In Fittings

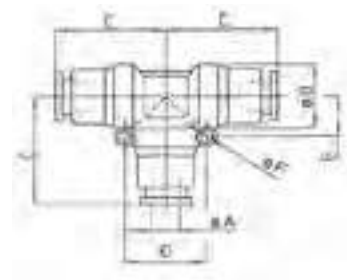
## TUBE TO TUBE

### FEATURES & BENEFITS

- 'T' configuration
- Enables connection of 3 tubes of the same outside diameter



Equal Tees



### EQUAL TEES

Part No	A Tube OD.	B Diameter	C Length	D Length	E Length	F Diameter
700040	4	10	19	12	6	2.7
700050	5	11	20	N/A	N/A	N/A
700060	6	13	23	16	8	3.2
700080	8	15	25	18	9	3.2
700100	10	17.5	28.5	22	11	4.2
700120	12	21.5	31.5	N/A	N/A	N/A

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# Sistem-P Push-In Fittings

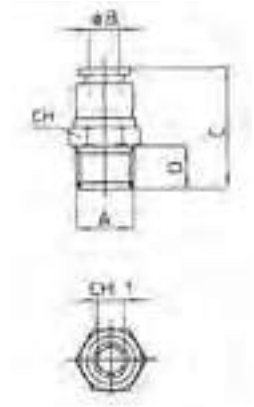
## TUBE TO MALE

### FEATURES & BENEFITS

- In-line configuration with a BSP taper male stud thread
- Enables tube connection to a mating BSP taper female threaded port



Male Stud Coupling -BSPT



### MALE STUD COUPLING -BSPT

Part No	A BSPT Male	B Tube OD.	C Length	D Length	CH Hex A/F	CH1 Hex A/F
I08040	1/8	4	22	8	10	3
I04040	1/4	4	25	10	14	3
I08050	1/8	5	22	8	10	4
I04050	1/4	5	25	10	14	4
I08060	1/8	6	22	8	12	4
I04060	1/4	6	27	10	14	4
I08080	1/8	8	29	8	14	6
I04080	1/4	8	28	10	14	6
I03080	3/8	8	30	11	17	6
I04100	1/4	10	34	10	17	8
I03100	3/8	10	33	11	17	8
I02100	1/2	10	36	14	22	8
I04120	1/4	12	37	10	21	8
I03120	3/8	12	36	11	21	10
I02120	1/2	12	36	14	22	10

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# Sistem-P Push-In Fittings

## TUBE TO MALE

### FEATURES & BENEFITS

- In-line configuration with a BSP parallel male stud thread and 'O' ring seal
- Enables tube connection to a mating BSP parallel female threaded port



Male Stud Coupling - BSP Parallel 'O' Ring Seal



## MALE STUD COUPLING -BSP PARALLEL 'O' RING SEAL

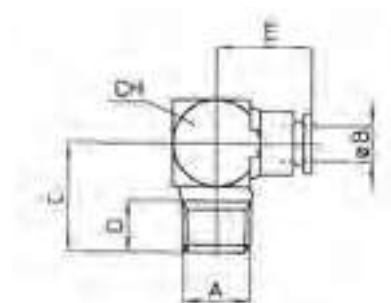
Part No	A BSP Male	B Tube OD.	C Length	D Length	CH Hex A/F	CHI Hex A/F
I08048	1/8	4	20	6	13	3
I04048	1/4	4	23	8	16	3
I08068	1/8	6	24.5	6	13	4
I04068	1/4	6	26	8	16	4
I08088	1/8	8	29.5	6	14	6
I04088	1/4	8	29	8	16	6
I04108	1/4	10	34	8	17	8

### FEATURES & BENEFITS

- 90° Elbow Configuration with a BSP taper male stud thread
- Enables tube connection to a mating BSP taper female threaded port



Male Stud Elbows -BSPT



## MALE STUD ELBOWS -BSPT

Part No	A BSPT Male	B Tube OD.	C Length	D Length	E Length	CH A/F
218040	1/8	4	15	8	13	10
214040	1/4	4	17	10	15	14
218050	1/8	5	15	8	13	10
214050	1/4	5	18.5	10	15	14
218060	1/8	6	19.5	8	16.5	12
214060	1/4	6	19	10	17	14
218080	1/8	8	19	8	19	14
214080	1/4	8	20	10	18.5	14
214100	1/4	10	21.5	10	20.5	17
213100	3/8	10	23	11	20.5	17
213120	3/8	12	30.5	11	38.5	22

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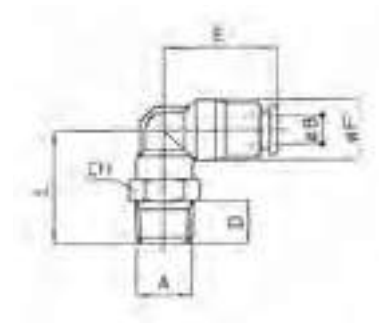


# Sistem-P Push-In Fittings

## TUBE TO MALE

### FEATURES & BENEFITS

- 90° Elbow configuration with a BSP taper male stud thread
- Enables tube connection to a mating BSP taper female threaded port
- The swivel feature on the male stud end allows rotational adjustment enabling the tube connection end to be aligned in any position within a 360° turning circle



Male Swivel Elbows -BSPT

### MALE SWIVEL ELBOWS -BSPT

Part No	A BSPT Male	B Tube OD.	C Length	D Length	E Length	F Diameter	CH A/F
208040	1/8	4	21.5	8	20	10	11
204040	1/4	4	23	10	20	10	14
208050	1/8	5	22	8	20.5	11	11
204050	1/4	5	24	10	20.5	11	14
208060	1/8	6	23	8	23	13	12
204060	1/4	6	25	10	23	13	14
208080	1/8	8	24	8	25	15	14
204080	1/4	8	26	10	25	15	14
203080	3/8	8	26	11	25	15	17
204100	1/4	10	30	10	28.5	17.5	19
203100	3/8	10	31	11	28.5	17.5	19
202100	1/2	10	34	14	28.5	17.5	22
204120	1/4	12	30	10	32	21.5	22
203120	3/8	12	33	11	32	21.5	22
202120	1/2	12	35	14	32	21.5	22

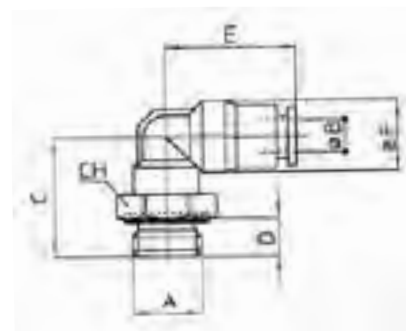
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# Sistem-P Push-In Fittings

## TUBE TO MALE

### FEATURES & BENEFITS

- 90° Elbow configuration with a BSP Parallel male stud thread
- Enables tube connection to a mating BSP Parallel female threaded port
- The swivel feature on the male stud end allows rotational adjustment enabling the tube connection end to be aligned in any position within a 360° turning circle



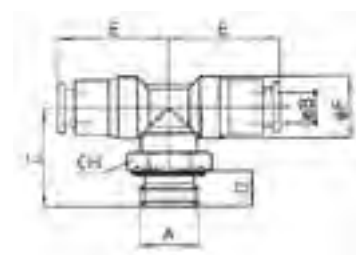
Male Swivel Elbows -BSPT Parallel 'O' Ring Seal

## MALE SWIVEL ELBOWS -BSP PARALLEL 'O' RING SEAL

Part No	A BSP Male	B Tube OD.	C Length	D Length	E Length	F Diameter	CH Hex A/F
208048	1/8	4	19	6	20	10	13
204048	1/4	4	21.5	8	20	10	16
208068	1/8	6	20.5	6	23	13	13
204068	1/4	6	22	8	23	13	16
208088	1/8	8	21.5	6	25	15	14
204088	1/4	8	23	8	25	15	16
204108	1/4	10	29	8	28.5	17.5	19

### FEATURES & BENEFITS

- 'T' configuration, in-line tube to tube connection with BSP Parallel Male Stud thread and 'O' ring seal on the branch
- Enables inline connection of 2 tubes of the same outside diameter to a mating BSP Parallel female threaded port
- The swivel feature on the male stud end branch allows rotational adjustment enabling both opposite tube connection ends to be aligned in any position within a 360° turning circle



Swivel Branch Tees 'O' Ring Seal -BSP Parallel

## SWIVEL BRANCH TEES 'O' RING SEAL -BSP PARALLEL

Part No	A BSP Male	B Tube OD.	C Length	D Length	E Length	F Diameter	CH Hex A/F
408068	1/8	6	20.5	6	23	13	13
404068	1/4	6	22	8	23	13	16
408088	1/8	8	21.5	6	25	15	14

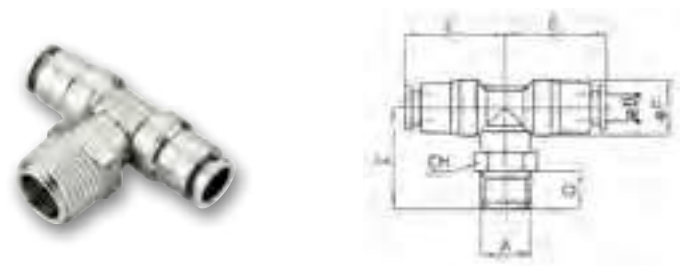
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# Sistem-P Push-In Fittings

## TUBE TO MALE

### FEATURES & BENEFITS

- 'T' configuration, in-line tube to tube connection with BSP taper male stud thread on the branch
- Enables in-line connection of 2 tubes of the same outside diameter to a mating BSP taper female threaded port
- The swivel feature on the male stud end branch allows rotational adjustment enabling both opposite tube connection ends to be aligned in any position within a 360° turning circle



Swivel Branch Tees -BSPT

### SWIVEL BRANCH TEES -BSPT

Part No	A BSPT Male	B Tube OD.	C Length	D Length	E Length	F Diameter	CH Hex A/F
408040	1/8	4	21	8	20	20	11
404040	1/4	4	23	10	20	20	14
408050	1/8	5	22	8	20.5	20.5	11
404050	1/4	5	24	10	20.5	20.5	14
408060	1/8	6	23	8	23	23	12
404060	1/4	6	25	10	23	23	14
408080	1/8	8	24	8	25	25	14
404080	1/4	8	26	10	25	25	14
403080	3/8	8	26	11	25	25	17
404100	1/4	10	29	10	28.5	28.5	19
403100	3/8	10	30	11	28.5	28.5	19
402100	1/2	10	32	14	28.5	28.5	22
404120	1/4	12	30	10	32	32	22
403120	3/8	12	33	11	32	32	22
402120	1/2	12	35	14	32	32	22

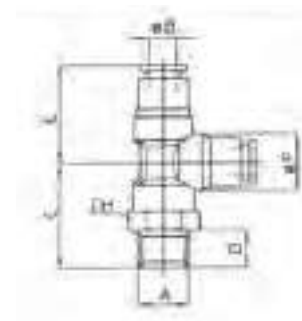
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# Sistem-P Push-In Fittings

## TUBE TO MALE

### FEATURES & BENEFITS

- 'T' configuration, 90° tube to tube connection with BSP Taper Male Stud thread on the run
- Enables 90° connection of 2 tubes of the same outside diameter to a mating BSP Taper female threaded port
- The swivel feature on the male stud end branch allows rotational adjustment enabling the tube connection end on the branch to be aligned in any position within a 360° turning circle



Swivel Run Tees BSPT

### SWIVEL RUN TEES -BSPT

Part No	A BSPT Male	B Tube OD.	C Length	D Length	E Length	F Diameter	CH Hex A/F
338040	1/8	4	23	8	20	10	11
338050	1/8	5	22.5	8	20.5	11	11
338060	1/8	6	25	8	23	13	14
334060	1/4	6	27	10	23	13	14
338080	1/8	8	26	8	25.5	15	16
334080	1/4	8	28	10	25.5	15	16
334100	1/4	10	30	10	29	17.5	19
333100	3/8	10	31	11	29	17.5	19

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# Sistem-P Push-In Fittings

## TUBE TO FEMALE

### FEATURES & BENEFITS

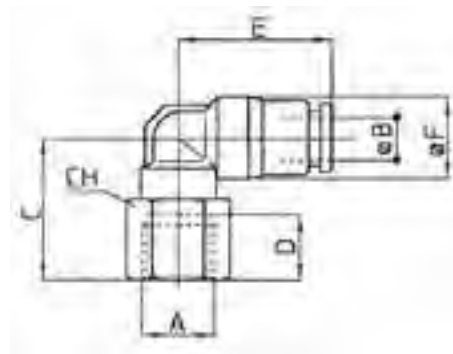
- Inline Configuration with BSP Parallel and M5 Metric Parallel female stud thread options
- Enables tube connection to a mating BSP Parallel or M5 Metric Parallel male stud thread



Female Stud Coupling - BSP Parallel & Metric M5

### FEMALE STUD COUPLING -BSP PARALLEL & METRIC M5

Part No	A Female Thread	B Tube OD.	C Length	D Length	CH Hex A/F
235040	M5	4	24	6	9
238040	1/8" BSP	4	27	9	12
238050	1/8" BSP	5	27	9	12
238060	1/8" BSP	6	31	10	13
234060	1/4" BSP	6	32	12	16
238080	1/8" BSP	8	33	10	15
234080	1/4" BSP	8	34	12	16
234100	1/4" BSP	10	36	12	17
233100	3/8" BSP	10	36	13	20



Female Swivel Elbows - BSP Parallel

### FEMALE SWIVEL ELBOWS -BSP PARALLEL

Part No	A BSP Male	B Tube OD.	C Length	D Length	E Length	F Diameter	CH Hex A/F
228040	1/8	4	22	10	20	10	12
228050	1/8	5	22	10	20.5	11	12
228060	1/8	6	23	10	23	13	12
224060	1/4	6	25	12	23	13	16
228080	1/8	8	25	10	25	15	14
224080	1/4	8	26	12	25	15	16
224100	1/4	10	31	12	28.5	17.5	19
223100	3/8	10	33	13	28.5	17.5	20

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# Sistem-P Push-In Fittings

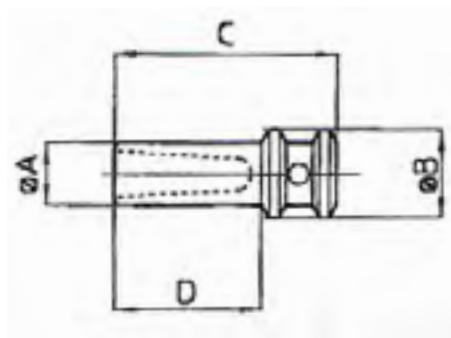
## BLANKING PLUGS

### FEATURES & BENEFITS

- A blank stem without a flow hole
- Inserted into a mating push-in fitting tube connection end the blanking plug seals the aperture



Blanking Plugs



## BLANKING PLUGS

Part No	A Stem Diameter	B Diameter	C Length	D Length
I20040	4	6	30	20
I20050	5	7	30	20
I20060	6	8	32	22
I20080	8	10	35	25
I20100	10	12	39	28
I20120	12	14	43	30

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# Compact Push-In Fittings



# Compact Push-In Fittings

## Technical Introduction

Enables quick and easy connection and disconnection between the tube and fitting. This provides the added benefit of easy maintenance.

### Mounting facility

Polybutylene bodies feature fixing holes, enabling secure mounting of the fitting and easy installation.

### Materials

- Nickel Plated brass stud thread connection
- Polybutylene body
- Stainless Steel Security Ring
- Nitrile 'O' Ring Seal.

### Technical Characteristics

Maximum working pressure: 10 Bar  
Maximum working temperature: +60° C  
Suitable for use on pneumatic applications

### Products in the Compact Push-In Range

Compact Push-In Fittings

82



# Compact Push-In Fittings

## MALE STUD COUPLING -BSPT & M5

### FEATURES & BENEFITS

- In-line configuration with a BSP taper male stud thread. Options also available with M5 male stud thread
- Enables tube connection to mating BSP taper and M5 female threaded ports



Part No	OD	Thread
JPC4-M5	4	M5
JPC4-01	4	1/8
JPC4-02	4	1/4
JPC6-M5	6	M5
JPC6-01	6	1/8
JPC6-02	6	1/4
JPC8-01	8	1/8
JPC8-02	8	1/4
JPC8-03	8	3/8
JPC10-02	10	1/4
JPC10-03	10	3/8

## FEMALE STUD COUPLING -BSPP & M5

### FEATURES & BENEFITS

- In-line configuration with BSP Parallel female stud thread. Option also available with M5 female stud thread
- Enables tube connection to mating BSP parallel or M5 metric parallel male stud threads



Part No	OD	Thread
JPCF4-M5	4	M5
JPCF4-01	4	1/8
JPCF4-02	4	1/4
JPCF6-01	6	1/8
JPCF6-02	6	1/4
JPCF8-01	8	1/8

## ELBOW MALE STUD -BSPT & M5

### FEATURES & BENEFITS

- 90° Elbow configuration with BSP taper male stud thread. Options also available with M5 male stud thread
- Enables tube connection to mating BSP taper and M5 female threaded ports



Part No	OD	Thread
JPL4-M5	4	M5
JPL4-01	4	1/8
JPL4-02	4	1/4
JPL6-M5	6	M5
JPL6-01	6	1/8
JPL6-02	6	1/4
JPL6-03	6	3/8
JPL8-01	8	1/8
JPL8-02	8	1/4
JPL8-03	8	3/8

## FEMALE STUD -ELBOW BSPP

### FEATURES & BENEFITS

- 90° Elbow configuration with BSP parallel female stud thread
- Enables tube connection to mating BSP parallel male stud threads



Part No	OD	Thread
JPLF4-01	4	1/8
JPLF4-02	4	1/4
JPLF6-01	6	1/8
JPLF6-02	6	1/4
JPLF6-03	6	3/8
JPLF8-01	8	1/8
JPLF8-02	8	1/4

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# Compact Push-In Fittings

## FEMALE STUD COUPLING -BSPP & M5

### FEATURES & BENEFITS

- In-line configuration
- Enables connection of 2 tubes of the same outside diameter



Part No	OD
JPU4	4
JPU6	6
JPU8	8
JPU10	10
JPU12	12

## EQUAL ELBOW

### FEATURES & BENEFITS

- 90° Elbow configuration
- Enables connection of 2 tubes of the same outside diameter



Part No	OD
JPV4	4
JPV6	6
JPV8	8
JPV10	10
JPV12	12

## REDUCING COUPLINGS

### FEATURES & BENEFITS

- In-line configuration
- Enables connection of 2 tubes of different outside diameters



Part No	OD	X OD
JPG6>4	6	4
JPG8>6	8	6
JPG10>8	10	8
JPG12>10	12	10

## EQUAL TEE

### FEATURES & BENEFITS

- 'T' configuration
- Enables connection of 3 tubes of the same outside diameter



Part No	OD
JPE4	4
JPE6	6
JPE8	8
JPE10	10
JPE12	12

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# Nickel Plated Brass BSP Fittings



# Nickel Plated Brass BSP Fittings

## Technical Introduction

A range of nickel plated brass fittings in various configurations incorporating options with BSP Taper and BSP Parallel, male and female threaded connections.

A complimentary range of adaptors intended for use with the Sistem-P and Compact push-in fittings, enabling quick and easy adaption of male and female stud thread connections.

### Manufactured in brass with a nickel plated finish

Suitable for use at the maximum recommended working pressures applicable to both the Sistem-P and Compact push-in ranges. The nickel plated finish provides protection against corrosion.

### Products in the Nickel Plated Brass Range

Female to Female	86
Blanking Plugs and Caps	88
Male to Female	89
Male to Male	96



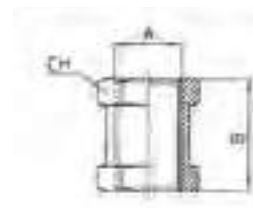


# Nickel Plated Brass BSP Fittings

## FEMALE TO FEMALE

### FEATURES & BENEFITS

- A range of nickel plated brass BSP parallel female to BSP parallel female threaded adaptors
- Providing a jointing solution where 2 component parts with mating BSP parallel BS2779 male threads of the same size need to be connected



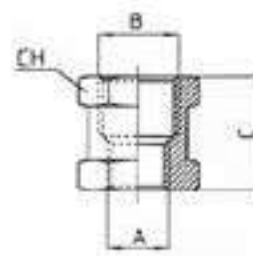
Socket -Female -BSPP

### SOCKET -FEMALE -BSPP

Part No	A Female Thread	B Length	CH Hex A/F
SI6080	1/8	18	14
SI6040	1/4	22	17
SI6030	3/8	24	22
SI6020	1/2	30	26

### FEATURES & BENEFITS

- A range of nickel plated brass BSP parallel female to BSP parallel female threaded adaptors
- Providing a jointing solution where 2 component parts with mating BSP parallel BS2779 male threads of different size need to be connected



Reducing Socket -Female -BSPP

### REDUCING SOCKET -FEMALE -BSPP

Part No	A Female Thread	B Female Thread	C Length	CH Hex A/F
SI7480	1/8	1/4	19	17
SI7380	1/8	3/8	20	22
SI7340	1/4	3/8	23	22
SI7240	1/4	1/2	25	26
SI7230	3/8	1/2	28	26

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# Nickel Plated Brass BSP Fittings

## FEMALE TO FEMALE

### FEATURES & BENEFITS

- 'Y' configuration
- A range of nickel plated brass BSP parallel female to BSP parallel female threaded adaptors
- Providing a jointing solution where 3 component parts with mating BSP parallel BS2779 male threads of the same size need to be connected



'Y' Connector Female -BSPP

### EQUAL 'Y' CONNECTOR -FEMALE -BSPP

Part No	A Female Thread	B Female Thread	C Diameter	CH Hex A/F
Z40880	1/8	1/8	13.5	14
Z40440	1/4	1/4	17.5	17
Z40330	3/8	3/8	21	20
Z40220	1/2	1/2	26	25

### FEATURES & BENEFITS

- 90° Elbow Configuration
- A range of nickel plated brass BSP Parallel female to BSP Parallel female threaded adaptors
- Providing a jointing solution where 2 component parts with mating BSP Parallel BS2779 Male threads of the same size need to be connected



Female Elbow -BSPP

### EQUAL ELBOW -FEMALE -BSPP

Part No	A Female Thread	B Female Thread	C Length	D Diameter	CH A/F
Z31880	1/8	1/8	21	13	11
Z31440	1/4	1/4	24.5	17	13
Z31330	3/8	3/8	28	21	17
Z31220	1/2	1/2	35	26.5	20
Z31110	3/4	3/4	36.5	tbc	tbc
Z31550	1	1	35	45	tbc

### FEATURES & BENEFITS

- 'T' configuration
- A range of nickel plated brass BSP parallel female to BSP parallel female threaded adaptors
- Providing a jointing solution where 3 component parts with mating BSP parallel BS2779 male threads of the same size need to be connected



Equal Tee -Female BSPP

### EQUAL TEE -FEMALE BSPP

Part No	A Female Thread	B Female Thread	C Length	D Diameter	CH A/F
Z34080	1/8	1/8	21	13	11
Z34040	1/4	1/4	24.5	17	13
Z34030	3/8	3/8	28	21	17
Z34020	1/2	1/2	35	26.5	20
Z34010	3/4	3/4	36.5	tbc	tbc
Z34050	1	1	45	tbc	tbc

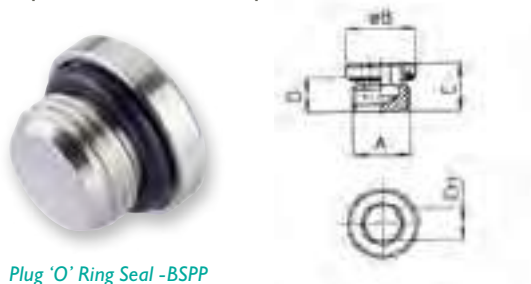
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# Nickel Plated Brass BSP Fittings

## BLANKING PLUGS AND CAPS

### FEATURES & BENEFITS

- Nickel plated brass screwed plug with BSP Parallel male thread and 'O' ring seal
- The internal hexagon feature enables tightening with an Allen key when installation is required in confined spaces
- Providing a blanking solution these plugs are designed to be screwed into a mating BSP Parallel female threaded port to blank off the aperture



Plug 'O' Ring Seal -BSPP

### PLUG WITH 'O' RING SEAL BSPP

Part No	A Male Thread	B Diameter	C Length	D Length	CH Hex A/F
SI9088	1/8	13	9	6	6
SI9048	1/4	16	11	8	8
SI9038	3/8	20	14	10	10
SI9028	1/2	25	16	12	12

### FEATURES & BENEFITS

- Nickel plated brass screwed plug with BSP parallel male thread
- Providing a blanking solution these plugs are designed to be screwed into a mating BSP parallel female threaded port to blank off the aperture



Plug Parallel -BSPP

### PLUG BSPP

Part No	A Male Thread	B Length	C Length	CH Hex A/F
SI9080	1/8	11	7	14
SI9040	1/4	13	8	17
SI9030	3/8	15	11	20
SI9020	1/2	19	13	24

### FEATURES & BENEFITS

- Nickel plated brass cap with BSP parallel female thread
- Providing a blanking solution these caps are designed to be screwed onto a mating BSP parallel male stud thread to blank off the flow hole



Female Plug -BSPP

### CAP BSPP

Part No	A Female Thread	B Length	CH Hex A/F
S20080	1/8	12	13
S20040	1/4	13	17
S20030	3/8	16	21
S20020	1/2	18	26

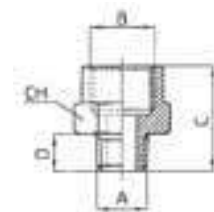
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# Nickel Plated Brass BSP Fittings

## MALE TO FEMALE

### FEATURES & BENEFITS

- A range of nickel plated brass BSP taper male to BSP parallel female threaded adaptors. When screwed onto a BSP parallel male stud thread they convert that end to BSP Taper male
- Providing a jointing solution where one component part with a BSP Parallel Male thread needs to be connected to another component part with a mating BSP Taper or BSP Parallel BS21 Female thread



Conical Extension -BSPT Male -BSPP Female

### ADAPTOR -BSPT MALE -BSPP FEMALE

Part No	A Male Thread	B Female Thread	C Length	D Length	CH Hex A/F
SI2880	1/8	1/8	20	8	14
SI2840	1/8	1/4	22	8	17
SI2480	1/4	1/8	23	10	17
SI2440	1/4	1/4	24	10	17
SI2430	1/4	3/8	25	10	22
SI2340	3/8	1/4	25	11	22
SI2330	3/8	3/8	26	11	22
SI2320	3/8	1/2	30	11	26
SI2230	1/2	3/8	32	14	22
SI2220	1/2	1/2	33	14	26
SI2310	3/8	3/4	26	10	32
SI2210	1/2	3/4	27	13	32
SI2110	3/4	3/4	28	14	32

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# Nickel Plated Brass BSP Fittings

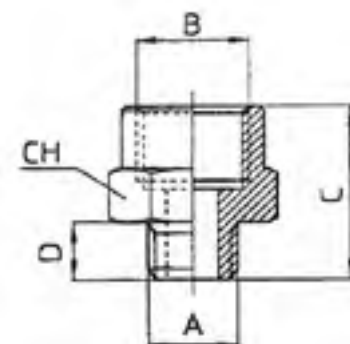
## MALE TO FEMALE

### FEATURES & BENEFITS

- A range of nickel plated brass BSP parallel male to BSP parallel female threaded adaptors. When screwed onto a BSP parallel male stud thread there are options in the range which;
  - Extend the length and adapt to leave a BSP parallel male stud connection of the same size
  - Extend the length and adapt to leave a BSP parallel male stud connection of a smaller size
  - Extend the length and adapt to leave a BSP parallel male stud connection of a larger size
- Providing a jointing solution where one component part with a BSP parallel male thread needs to be connected to another component part with a similar, smaller or larger mating BSP parallel BS2779 female port



Conical Extension -BSPP



### ADAPTOR -BSPP MALE -BSPP FEMALE

Part No	A Male Thread	B Female Thread	C Length	D Length	CH Hex A/F
SI3880	1/8	1/8	18	6	14
SI3840	1/8	1/4	21	6	17
SI3480	1/4	1/8	21	8	17
SI3440	1/4	1/4	22	8	17
SI3430	1/4	3/8	24	8	22
SI3340	3/8	1/4	24	9	22
SI3330	3/8	3/8	26	9	22
SI3320	3/8	1/2	28	9	26
SI3230	1/2	3/8	30	12	26
SI3220	1/2	1/2	31	12	26
SI3310	3/8	3/4	26	9	32
SI3210	1/2	3/4	27	10	32
SI3110	3/4	3/4	28	11	32
SI3250	1/2	1	29	10	38
SI3150	3/4	1	30	11	38
SI3550	1	1	31	12	38

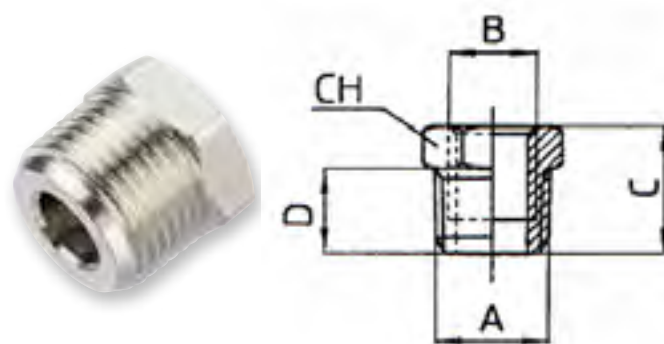
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# Nickel Plated Brass BSP Fittings

## MALE TO FEMALE

### FEATURES & BENEFITS

- A range of nickel plated brass BSP taper male to BSP parallel female threaded adaptors.
- When screwed onto a BSP parallel male stud thread they convert that end to a BSP taper male stud connection of a larger size
- Providing a jointing solution where one component part with a BSP parallel male thread needs to be connected to another component part with a larger mating BSP taper or BSP parallel BS21 female thread



Reducing Bush -BSPT

### REDUCING BUSH -BSPT

Part No	A Male Thread	B Female Thread	C Length	D Length	CH Hex A/F
SI4850	1/8	M5	12	8	12
SI4480	1/4	1/8	14	10	14
SI4380	3/8	1/8	17	11	17
SI4340	3/8	1/4	17	11	17
SI4240	1/2	1/4	22	14	22
SI4230	1/2	3/8	22	14	22
SI4140	3/4	1/4	17	11	30
SI4130	3/4	3/8	17	11	30
SI4120	3/4	1/2	17	11	30
SI4530	1	3/8	19	12	36
SI4520	1	1/2	19	12	36
SI4510	1	3/4	19	12	36

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# Nickel Plated Brass BSP Fittings

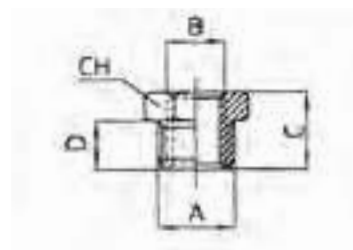
## MALE TO FEMALE

### FEATURES & BENEFITS

- A range of nickel plated brass BSP parallel male to BSP parallel female threaded adaptors.
- When screwed onto a BSP parallel male stud thread they convert that end to a BSP parallel male stud connection of a larger size
- Providing a jointing solution where one component part with a BSP parallel male thread needs to be connected to another component part with a larger mating BSP parallel BS2779 female thread



Reducing Bush -BSPT



### REDUCING BUSH -BSPP

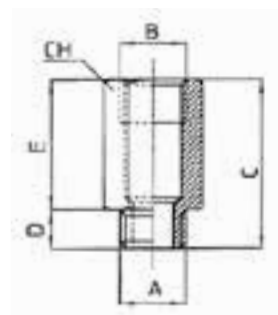
Part No	A Male Thread	B Female Thread	C Length	D Length	CH Hex A/F
SI5850	1/8	M5	11	6	14
SI5480	1/4	1/8	13	8	17
SI5380	3/8	1/8	16	9	22
SI5340	3/8	1/4	16	9	22
SI5240	1/2	1/4	19	12	26
SI5230	1/2	3/8	19	12	26
SI5140	3/4	1/4	17	11	30
SI5130	3/4	3/8	17	11	30
SI5120	3/4	1/2	17	11	30
SI5530	1	3/8	19	12	36
SI5520	1	1/2	19	12	36

### FEATURES & BENEFITS

- A range of nickel plated brass BSP parallel male to BSP parallel female threaded adaptors.
- When screwed onto a BSP parallel male stud thread there are options in the range which;
  - Extend the length and adapt to leave a BSP parallel male stud connection of the same size
  - Providing a jointing solution where one component part with a BSP parallel male thread needs to be connected to another component part with a similar size mating BSP parallel BS2779 female port



Cylindrical Parallel Extension Male x Female



### EXTENSION ADAPTOR -BSPP MALE -BSPP FEMALE

Part No	A Male Thread	B Female Thread	C Length	D Length	E Length	CH Hex A/F
SI8816	1/8	1/8	22	6	16	14
SI8836	1/8	1/8	42	8	36	14
SI8427	1/4	1/4	35	9	27	17
SI8443	1/4	1/4	51	12	43	17

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# Nickel Plated Brass BSP Fittings

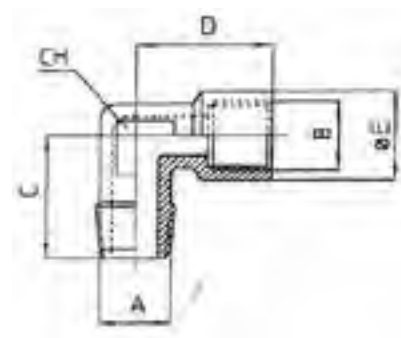
## MALE TO FEMALE

### FEATURES & BENEFITS

- 90° Elbow configuration
- A range of nickel plated brass BSP taper male to BSP parallel female threaded 90° Elbows
- When screwed onto a BSP parallel male stud thread they convert that end to a BSP taper male thread connection of the same size
- Providing a jointing solution where one component part with a BSP parallel male thread needs to be connected to another component part with a mating BSP taper or BSP parallel BS21 female thread



Elbow Male BSPT -Female BSPP



### ELBOW MALE BSPT -FEMALE BSPP

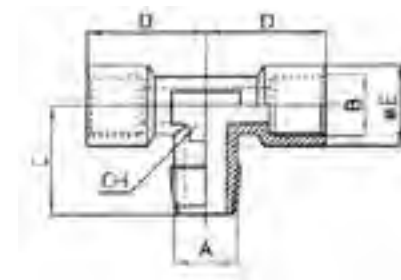
Part No	A Male Thread	B Female Thread	C Length	D Length	E Diameter	CH A/F
Z30880	1/8	1/8	18.5	21	13	11
Z30440	1/4	1/4	23	24.5	17	13
Z30330	3/8	3/8	26	28	21	17
Z30220	1/2	1/2	31.5	35	26.5	20
Z30110	3/4	3/4	32	36.5	tbc	tbc
Z30550	1	1	39	45	tbc	tbc

### FEATURES & BENEFITS

- 'T' configuration
- A range of nickel plated brass BSP taper male branch tees with BSP parallel female threaded connection on both opposite ends
- Enables connection of the BSP taper male stud thread on the branch to a mating BSP taper or BSP parallel BS21 female threaded port, providing 2 BSP parallel Female threaded connections in alignment with each other



Branch Tee Male BSPT -Female BSPP



### BRANCH TEE – MALE BSPT – FEMALE BSPP – FEMALE BSPP

Part No	A Male Thread	B Female Thread	C Length	D Length	E Diameter	CH A/F
Z33080	1/8	1/8	18.5	21	13	11
Z33040	1/4	1/4	23	24.5	17	13
Z33030	3/8	3/8	26	28	21	17
Z33020	1/2	1/2	31.5	35	26.5	20
Z33010	3/4	3/4	32	tbc	tbc	tbc

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# Nickel Plated Brass BSP Fittings

## MALE TO FEMALE

### FEATURES & BENEFITS

- 'T' configuration
- A range of nickel plated brass BSP taper male run tees with BSP parallel female threaded connection on the opposite end and branch
- Enables connection of the BSP taper male stud thread on the run to a mating BSP taper or BSP parallel BS21 female threaded port, providing 2 BSP parallel female threaded port connections at 90° to each other



Run Tee Male BSPT -Female BSPP



### RUN TEE – MALE BSPT – FEMALE BSPP – FEMALE BSPP

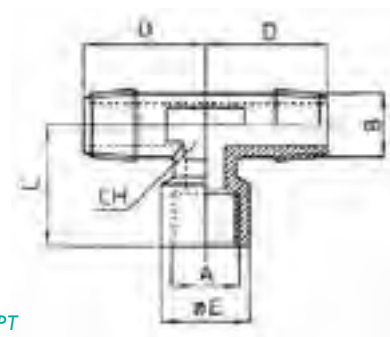
Part No	A Male Thread	B Female Thread	C Length	D Length	E Diameter	CH A/F
Z36080	1/8	1/8	21	18	13	11
Z36040	1/4	1/4	24.5	23.5	17	13
Z36030	3/8	3/8	28	26	21	17
Z36020	1/2	1/2	35	31	26.5	20
Z36010	3/4	3/4	36.5	tbc	tbc	tbc
Z36050	1	1	45	tbc	tbc	tbc

### FEATURES & BENEFITS

- 'T' configuration
- A range of nickel plated brass BSP parallel female branch tees with BSP taper male stud threaded connection on both opposite ends.
- Enables connection of the BSP parallel female stud thread on the branch to a mating BSP parallel male stud thread, providing 2 BSP taper male threaded connections in alignment with each other



Branch Tee Female BSPP -Male BSPT



### BRANCH TEE – FEMALE BSPP – MALE BSPT – MALE BSPT

Part No	A Female Thread	B Male Thread	C Length	D Length	E Diameter	CH A/F
Z37080	1/8	1/8	21	18	13	11
Z37040	1/4	1/4	24.5	23.5	17	13
Z37030	3/8	3/8	28	26	21	17
Z37020	1/2	1/2	35	31.5	26.5	20

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# Nickel Plated Brass BSP Fittings

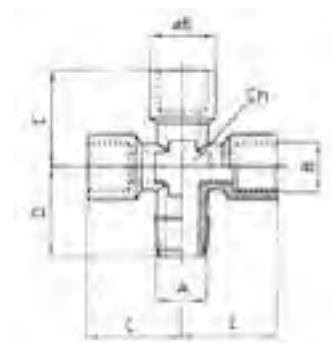
## MALE TO FEMALE

### FEATURES & BENEFITS

- 'X' configuration
- A range of nickel plated brass crosses with BSP taper male stud thread and 3 BSP parallel female threaded connections
- Enables connection of the BSP taper male stud thread to a mating BSP taper or BSP parallel BS21 female threaded port, providing 3 BSP parallel female threaded port connections



Cross -Female BSPP -Male BSPT



## CROSS – MALE BSPT – FEMALE BSPP – FEMALE BSPP – FEMALE BSPP

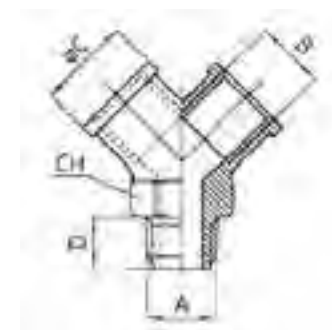
Part No	A Male Thread	B Female Thread	C Length	D Length	E Diameter	CH A/F
Z38080	1/8	1/8	21	18	13	11
Z38040	1/4	1/4	24.5	23.5	17	13
Z38030	3/8	3/8	28	26	21	17

### FEATURES & BENEFITS

- 'Y' configuration
- A range of nickel plated brass BSP taper male 'Y' connectors with 2 BSP parallel female threaded port connections at 90° to each other on the opposite end
- Enables connection of the BSP taper male stud thread to a mating BSP taper or BSP parallel BS21 female threaded port, providing 2 BSP parallel female threaded port connections at 90° to each other



'Y' Connector Male BSPT -Female BSPP



## 'Y' CONNECTOR – MALE BSPT – FEMALE BSPP – FEMALE BSPP

Part No	A Male Thread	B Female Thread	C Diameter	D Length	CH Hex A/F
Z39880	1/8	1/8	13.5	8	13
Z39440	1/4	1/4	17.5	10	17
Z39330	3/8	3/8	21	11	20
Z39220	1/2	1/2	26	14	25

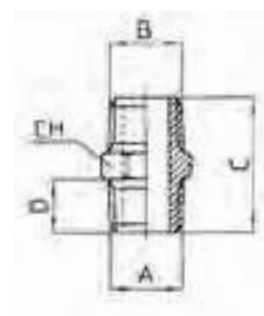
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# Nickel Plated Brass BSP Fittings

## MALE TO MALE

### FEATURES & BENEFITS

- A range of nickel plated brass BSP taper male to BSP Taper male threaded adaptors
- Providing a jointing solution where 2 component parts with mating BSP taper or BSP parallel BS21 female threads of same or different size need to be connected



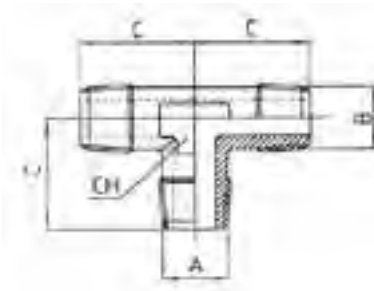
*Taper Nipple -BSPT*

### TAPER NIPPLE -BSPT

Part No	A Male Thread	B Male Thread	C Length	D Length	CH HEX A/F
SI0880	1/8	1/8	21	8	12
SI0840	1/8	1/4	23	8	14
SI0830	1/8	3/8	25	8	17
SI0440	1/4	1/4	25	10	14
SI0430	1/4	3/8	27	10	17
SI0420	1/4	1/2	30	10	22
SI0330	3/8	3/8	28	11	17
SI0320	3/8	1/2	31	11	22
SI0220	1/2	1/2	34	14	22
SI0210	1/2	3/4	32	12 & 14	27
SI0110	3/4	3/4	34	14	27
SI0150	3/4	1	37	14 & 16	34
SI0550	1	1	39	16	34

### FEATURES & BENEFITS

- 'T' configuration
- A range of nickel plated brass BSP taper male threaded equal tee pieces
- Providing a jointing solution where 3 component parts with mating BSP taper or BSP parallel BS21 female threads of the same size need to be connected



*Male Tee -BSPT*

### MALE TEE -BSPT

Part No	A Male Thread	B Male Thread	C Length	CH A/F
Z35080	1/8	1/8	18.5	11
Z35040	1/4	1/4	23	13
Z35030	3/8	3/8	26	17
Z35020	1/2	1/2	31.5	20

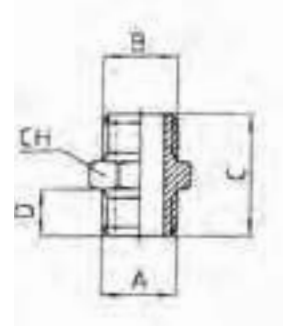
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# Nickel Plated Brass BSP Fittings

## MALE TO MALE

### FEATURES & BENEFITS

- A range of nickel plated brass BSP parallel male to BSP parallel male threaded adaptors
- Providing a jointing solution where 2 component parts with mating BSP parallel BS2779 female threads of same or different size need to be connected



Parallel Nipple -BSPP

### PARALLEL NIPPLE -BSPP

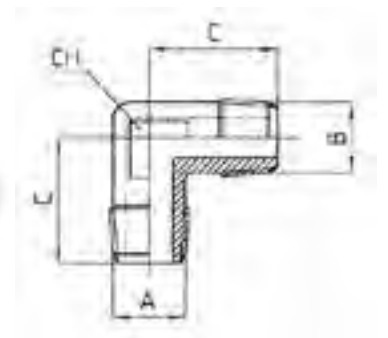
Part No	A Male Thread	B Male Thread	C Length	D Length
SI1880	1/8	1/8	17	6
SI1840	1/8	1/4	19	6
SI1830	1/8	3/8	22	6
SI1440	1/4	1/4	21	8
SI1430	1/4	3/8	24	8
SI1420	1/4	1/2	26	8
SI1330	3/8	3/8	26	9
SI1320	3/8	1/2	28	9
SI1220	1/2	1/2	30	12

### FEATURES & BENEFITS

- 90° Elbow configuration
- A range of nickel plated brass BSP taper male threaded equal elbows
- Providing a jointing solution where 2 component parts with mating BSP taper or BSP parallel BS21 female threads of the same size need to be connected



Male Elbow -BSPT



### MALE ELBOW -BSPT

Part No	A Male Thread	B Male Thread	C Length	CH A/F	CH A/F
Z32880	1/8	1/8	18.5	11	12
Z32440	1/4	1/4	23	13	14
Z32330	3/8	3/8	26	17	17
Z32220	1/2	1/2	31.5	20	14
Z32110	3/4	3/4	32	tbc	17
Z32550	1	1	39	tbc	22

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## Technical Introduction

### A series of Brass silencers with 36 micron sintered spherical bronze filter element

- Suitable for use with compressed air, can be fitted to valve exhausts to reduce noise level
- BSP Parallel Male stud thread connection
- Sizes available: 1/8", 1/4", 3/8" and 1/2" BSP Parallel Male
- Temperature range: -10° C up to +80°C.
- Pressure range: 0 to 12 Bar

### The range also includes a self cleaning dynamic silencer in acetal resin.

- The sound absorbing material is composed of moving elements which avoids the risk of obstructions and maintains constant in time air flow.
- Noise absorbing material: Granulated acetal resin
- BSP Parallel Male stud thread connection
- Sizes available: 1/8", 1/4", 3/8" and 1/2" BSP Parallel Male
- Temperature range: -10° C up to +70° C.
- Pressure range: 0 to 10 Bar

### Products in the Silencer Range

Sintered Bronze Silencer	100
Wire Mesh/Brass Compact Silencer	100
Sintered/Brass Silencer	100
Plastic High Flow Silencer	100
Sintered Bronze/Brass Silencer	100



# Silencers

## SILENCERS



**SINTERED BRONZE  
SILENCER**

Part No	BSP Male
SC-1	1/8
SC-2	1/4
SC-3	3/8
SC-4	1/2



**WIRE MESH/BRASS  
COMPACT SILENCER**

Part No	BSP Male
SFE-1	1/8
SFE-2	1/4
SFE-3	3/8
SFE-4	1/2



**SINTERED BRONZE/BRASS  
SILENCER**

Part No*	BSP Male	MOQ
SP-1	1/8	-
SP-2	1/4	-
SP-3	3/8	50
SP-4	1/2	50



**PLASTIC HIGH FLOW  
SILENCER**

Part No	BSP Male
SPL-1	1/8
SPL-2	1/4
SPL-3	3/8
SPL-4	1/2



**SINTERED BRONZE/BRASS  
SILENCER**

Part No*	BSP Male	MOQ
SE-1	1/8	-
SE-2	1/4	-
SE-3	3/8	50
SE-4	1/2	50

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# Air Valves



## PART NUMBERING SYSTEM

### An explanation of the Wade part numbering system:

#### Series; 6000, 6100, 6200, 6300 & 6500 Safety Relief Valves

Wade Safety Relief Valves can be made available for set pressures within a range from 1.8 Bar up to 20.1 Bar. The valves can be assembled with a choice of nine different springs, each of which is suitable for a particular setting within that range. The code for each of these springs and their individual setting range is confirmed in the table on the following page.

The correct Wade Part Number will need to contain coding confirming:

Series Type	/	Connection size	/	Spring Code	/	Set Pressure
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**A)** The Series Type. For example; '6100'.  
Note that; the 6300 series is supplied 'degreased' for Oxygen duty. However, if valves within series, 6000, 6100, 6200 or 6500, are required 'degreased', the letter 'D' must be included after the four digits of the series type of the Part Number. For example; '6100D'

**B)** The Male threaded inlet connection size.  
For example; '06' indicating 1/4" BSP Taper.  
The codes for each thread size are confirmed in the table below.

BSP Taper Male Inlet Size	Code
1/4"	06
3/8"	10
1/2"	15
3/4"	20
1"	25

**C)** The letter code for the spring.  
For example; 'D', 'E', 'F', 'G' etc.

**D)** The set pressure.  
For example; '5.5' indicating a set pressure of 5.5 Bar.

Spring Range in Bar	Spring Code	Spring Colour
1.8 to 2.5	D	BLUE
2.5 to 3.4	E	GREEN
3.4 to 4.7	F	BROWN
4.7 to 6.5	G	YELLOW
6.5 to 9.0	H	WHITE
9.0 to 12.5	J	BLACK
12.5 to 14.6	K	PURPLE/RED
14.6 to 17.2	L	PURPLE/BLUE
17.2 to 20.1	M	PURPLE/GREEN

To understand how this works, refer to the examples and descriptions below;

6000	/	06	/	J	/	11.0
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Description: Series 6000, 1/4" BSP Taper set at 11.0 Bar

6000D	/	06	/	J	/	11.0
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Description: Series 6000, 1/4" BSP Taper set at 11.0 Bar, Degreased

6100	/	25	/	G	/	5.5
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Description: Series 6100, 1" BSP Taper set at 5.5 Bar

6100D	/	25	/	G	/	5.5
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Description: Series 6100, 1" BSP Taper set at 5.5 Bar, Degreased

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## SERIES 6000 SAFETY RELIEF VALVE

Atmospheric Discharge Complete with Lifting 'Pull Ring' Easing Gear

### SUITABLE FOR AIR AND INERT GAS APPLICATIONS

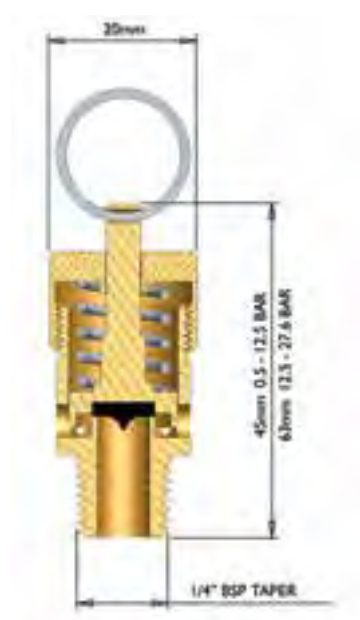
The Series 6000, 1/4" BSP taper safety relief valve with atmospheric discharge and pull ring easing gear is used extensively on compressed air cylinders and pressure vessels. Fitted with a silicone rubber seat this valve is also used on small dental or hospital sterilising equipment.

### FEATURES & BENEFITS

- Soft valve washer for 'bubble tight' seal
- High performance
- Pressure range 1.8 BarG to 20.1 BarG
- Size: 1/4" BSP taper male Inlet
- Atmospheric discharge
- Valve washers to suit air and inert gases
- Brass construction with stainless steel springs
- Valves can be supplied degreased for oxygen service



### DIMENSIONAL DRAWING



### CAPACITIES

Air at 15°C in Std. Litres / sec at 10% overpressure

Size	BarG	2.0	5.0	8.0	9.0	11.0	13.0	15.0	17.0
1/4"	L/sec	15	36	58	67	84	96	110	124

### SPECIFICATION

A High Lift Safety Relief Valve with atmospheric discharge suitable for air and inert gas applications.

The flow is de-rated and measured in accordance with BS EN ISO 4126-1: 2004.

The valve re-seats by minus 10% of set pressure.

Maximum Set Pressure: 20.1 Bar

Minimum Set Pressure: 1.8 Bar

Maximum Temperature: 180°C

Minimum Temperature: -15°C

All Wade Safety Valves are PED approved and CE marked.

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## SERIES 6100 SAFETY RELIEF VALVE

Atmospheric Discharge Complete with Lifting 'Knob' Easing Gear

### SUITABLE FOR AIR AND INERT GAS APPLICATIONS

The Series 6100, 1/4" to 1" BSP Taper safety relief valve with atmospheric discharge and lifting knob easing gear is used primarily on compressed air supply systems, compressor sets and pressure vessels. It is fitted to systems to prevent a safe working pressure being exceeded.

### FEATURES & BENEFITS

- Soft valve washer for 'bubble tight' seal
- High performance
- Pressure range 1.8 BarG To 20.1 BarG
- Size range: 1/4", 3/8", 1/2", 3/4" & 1" BSP taper male threaded inlet connections
- Atmospheric discharge
- Valve washers to suit air and inert gases
- Brass construction with stainless steel springs
- Valves can be supplied degreased for oxygen service and lead wire sealed

### DIMENSIONS

Valve Size	1/4" (DN06)	3/8" (DN10)	1/2" (DN15)	3/4" (DN20)	1" (DN25)
A	15	15	15	18	21
B	88	88	88	90	97
C	33	33	33	33	33
BI	103	103	103	120	135

Dimensions in mm

### CAPACITIES

Air at 15°C in Std. Litres / sec at 10% overpressure

Inlet Size	BarG	2.0	5.0	8.0	9.0	11.0	13.0	15.0	17.0
1/4", 3/8" & 1/2"	L/sec	20	40	60	67	81	94	108	121
3/4"	L/sec	29	60	90	100	120	140	161	181
1"	L/sec	48	97	146	162	195	227	260	293

### SPECIFICATION

A High Lift Safety Relief Valve with atmospheric discharge suitable for air and inert gas applications.

The flow is de-rated and measured in accordance with BS EN ISO 4126-1: 2004.

The valve re-seats by minus 10% of set pressure.

Maximum Set Pressure: 20.1 Bar

Minimum Set Pressure: 1.8 Bar

Maximum Temperature: 180°C

Minimum Temperature: -15°C

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### DIMENSIONAL DRAWING



## SERIES 6200 SAFETY RELIEF VALVE

Side Outlet Discharge Complete with Lifting 'Knob' Easing Gear

### SUITABLE FOR AIR AND INERT GAS APPLICATIONS

The Series 6200, 1/2" to 1" BSP Taper safety relief valve with side outlet discharge and lifting knob easing gear is used primarily on compressed air supply systems, compressor sets and pressure vessels, to prevent a safe working pressure being exceeded. This valve is also used on medical air gases. If a sealed top is required, the same valve is available as Wade Series 6500.

### FEATURES & BENEFITS

- Soft valve washer for 'bubble tight' seal
- High performance
- Pressure range 1.8 BarG to 20.1 BarG
- Size range: 1/2", 3/4" & 1" BSP taper male threaded inlet connections with BSP parallel female threaded side outlet connections
- Side outlet discharge
- Valve washers to suit air and inert gases
- Brass construction with stainless steel springs

### DIMENSIONS

Valve Size	1/2" (DN15)	3/4" (DN20)	1" (DN25)
A	15	18	21
B	88	90	97
C	33	33	33
BI	103	120	135
E	40	48.5	58.5
F	30.5	36	40

Dimensions in mm

### CAPACITIES

Air at 15°C in Std. Litres / sec at 10% overpressure

Inlet Size	BarG	2.0	5.0	8.0	9.0	11.0	13.0	15.0	17.0
1/2"	L/sec	20	40	60	67	81	94	108	121
3/4"	L/sec	29	60	90	100	120	140	161	181
1"	L/sec	48	97	146	162	195	227	260	293

### SPECIFICATION

A High Lift Safety Relief Valve with side outlet discharge suitable for air and inert gas applications.

The flow is de-rated and measured in accordance with BS EN ISO 4126-1: 2004.

The valve re-seats by minus 10% of set pressure.

Maximum Set Pressure: 20.1 Bar

Minimum Set Pressure: 1.8 Bar

Maximum Temperature: 180°C

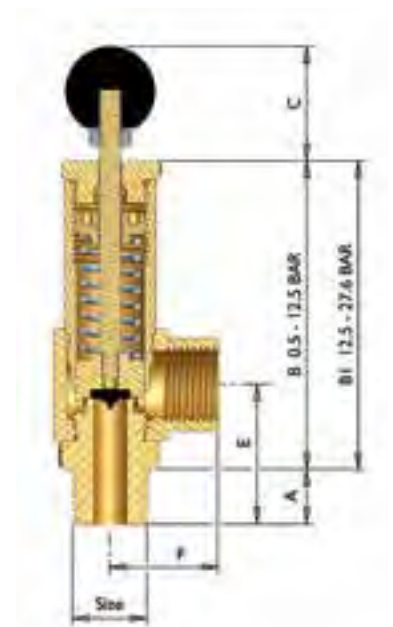
Minimum Temperature: -15°C

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### DIMENSIONAL DRAWING



## SERIES 6300 SAFETY RELIEF VALVE

For Oxygen Duty Side Outlet Discharge complete with Lifting 'Pull Ring' Easing Gear

### SUITABLE FOR AIR AND INERT GAS APPLICATIONS

The Series 6300, 1/2", 3/4" and 1" BSP Taper safety relief valves with side outlet discharge, are similar to the Series 6200 but with Pull Ring easing gear instead of Knob. They are de-greased for Oxygen duty.

### FEATURES & BENEFITS

- Soft valve washer for 'bubble tight' seal
- High performance
- Pressure range 1.8 BarG to 20.1 BarG
- Size range: 1/2", 3/4" & 1" BSP taper male threaded inlet connections with BSP parallel female threaded side outlet connections
- Side outlet discharge
- Valve washers to suit air and inert gases
- Brass construction with stainless steel springs
- Degreased for oxygen duty

### DIMENSIONS

Valve Size	1/2" (DN15)	3/4" (DN20)	1" (DN25)
A	15	18	21
B	88	90	97
C	33	33	33
BI	103	120	135
E	40	48.5	58.5
F	30.5	36	40

Dimensions in mm

### CAPACITIES

Air at 15°C in Std. Litres / sec at 10% overpressure

Inlet Size	BarG	2.0	5.0	8.0	9.0	11.0	13.0	15.0	17.0
1/2"	L/sec	20	40	60	67	81	94	108	121
3/4"	L/sec	29	60	90	100	120	140	161	181
1"	L/sec	48	97	146	162	195	227	260	293

### SPECIFICATION

A High Lift Safety Relief Valve with side outlet discharge suitable for air, inert gas and oxygen duty applications.

The flow is de-rated and measured in accordance with BS EN ISO 4126-1: 2004.

The valve re-seats by minus 10% of set pressure.

Maximum Set Pressure: 20.1 Bar

Minimum Set Pressure: 1.8 Bar

Maximum Temperature: 180°C

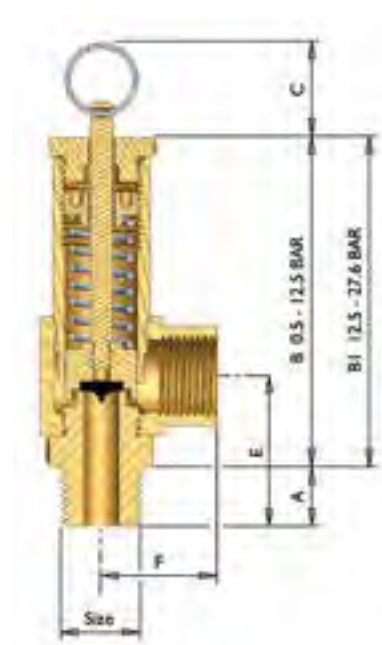
Minimum Temperature: -15°C

All Wade Safety Valves are PED approved and CE marked

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### DIMENSIONAL DRAWING



## SERIES 6500 SAFETY RELIEF VALVE

Side Outlet Discharge Complete with Sealed Cover

### SUITABLE FOR AIR AND INERT GAS APPLICATIONS

The Series 6500, 1/2", 3/4" and 1" BSP Taper safety relief valves with side outlet discharge and sealed cover are used primarily on compressed air supply systems, compressor sets and pressure vessels, to prevent a safe working pressure being exceeded. These valves are also used on medical air gases. If lifting knob easing gear is required, the same valve is available as Wade Series 6200.

### FEATURES & BENEFITS

- Soft valve washer for 'bubble tight' seal
- High performance
- Pressure range 1.8 BarG to 20.1 BarG
- Size range: 1/2", 3/4" & 1" BSP taper male threaded inlet connections with BSP parallel female threaded side outlet connections. Note that; 1/2" male x 3/4" female & 3/4" male x 1" female options are available on request.
- Side outlet discharge
- Valve washers to suit air and inert gases
- Brass construction with stainless steel springs
- Valves can be supplied degreased for oxygen service and lead wire sealed.

### DIMENSIONS

Valve Size	1/2" (DN15)	3/4" (DN20)	1" (DN25)
A	15	18	21
B	88	90	97
BI	103	120	135
D	40	48.5	58.5
F	30.5	36	40

Dimensions in mm

### CAPACITIES

Air at 15°C in Std. Litres / sec at 10% overpressure

Inlet Size	BarG	2.0	5.0	8.0	9.0	11.0	13.0	15.0	17.0
1/2"	L/sec	20	40	60	67	81	94	108	121
3/4"	L/sec	29	60	90	100	120	140	161	181
1"	L/sec	48	97	146	162	195	227	260	293

### SPECIFICATION

A High Lift Safety Relief Valve with side outlet discharge suitable for air and inert gas applications.

The flow is de-rated and measured in accordance with BS EN ISO 4126-1: 2004.

The valve re-seats by minus 10% of set pressure.

Maximum Set Pressure: 20.1 Bar

Minimum Set Pressure: 1.8 Bar

Maximum Temperature: 180°C

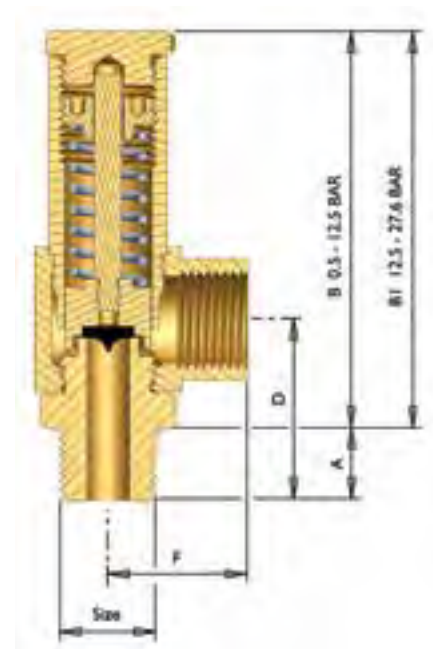
Minimum Temperature: -15°C

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### DIMENSIONAL DRAWING









## NYLON TUBE

### NYLON TUBE -FEATURES & BENEFITS

Wade Nylon Tube is manufactured and produced from raw material and by process and quality control systems which meet with the requirements of the following:

BS 5409 (Parts 1 & 2); S.M.M.T. C2C; SAE J1394 (Type A); SAE J844 (Type A); DIN 73378; DIN 74323; DIN 74324 (Parts 1 & 2); ISO-TC 22 SC/2; ISO 7628.

### Manufacturing Tolerances

#### *Metric Sizes*

All sizes up to and including 16mm od:

Inside diameter:  $\pm 0.1\text{mm}$

Outside diameter:  $+0 / -0.1\text{mm}$

#### *Imperial Sizes*

All sizes up to and including 1/2" Outside diameter:

Inside diameter:  $\pm 0.005"$

Outside diameter:  $+0 / -0.005"$

### Alternative Colours

The standard catalogue part numbers contain a reference of either 'F0' or 'S0'

The number '0' indicates the colour 'Natural'

Other colour options are available on request and number '0' changes as indicated below:

0 = Natural

1 = Blue

2 = Green

3 = Yellow

4 = Brown

5 = Red

6 = Black

## NYLON TUBE – IMPERIAL



### MEDIUM GAUGE/FLEXIBLE -30 METRE COIL

Part No	Tube (OD)	Tube (ID)	Max working pressure (PSI)	Max working pressure: Bar	Coil Length	Colour
NT01C/F0/30	3/16	0.117	541	37	30m	Natural
NT03C/F0/30	1/4	0.17	427	29	30m	Natural
NT05C/F0/30	5/16	0.212	427	29	30m	Natural
NT08C/F0/30	3/8	0.265	370	25	30m	Natural
NT08D/F0/30	3/8	0.25	455	31	30m	Natural
NT11D/F0/30	1/2	0.375	299	20	30m	Natural

### LIGHT GAUGE/SEMI-RIGID -30 METRE COIL

Part No	Tube (OD)	Tube (ID)	Max working pressure (PSI)	Max working pressure: Bar	Coil Length	Colour
NT00A/S0/30	1/8	0.095	458	31	30m	Natural
NT03A/S0/30	1/4	0.19	458	31	30m	Natural
NT08A/S0/30	3/8	0.295	381	26	30m	Natural

### HEAVY GAUGE/SEMI-RIGID -30 METRE COIL

Part No	Tube (OD)	Tube (ID)	Max working pressure (PSI)	Max working pressure: Bar	Coil Length	Colour
NT00B/S0/30	1/8	0.075	966	66	30m	Natural
NT01B/S0/30	3/16	0.107	1091	75	30m	Natural
NT03B/S0/30	1/4	0.15	966	66	30m	Natural
NT05B/S0/30	5/16	0.182	1040	71	30m	Natural

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## NYLON TUBE – METRIC



### LIGHT GAUGE/FLEXIBLE -30 METRE COIL

Part No	Tube (OD)	Tube (ID)	Max working pressure (PSI)	Max working pressure: Bar	Coil Length	Colour
NT704/F0/30	4	3	609	42	30m	Natural
NT706/F0/30	6	4.5	319	22	30m	Natural
NT708/F0/30	8	6	304	21	30m	Natural
NT710/F0/30	10	7.5	304	21	30m	Natural
NT712/F0/30	12	9.5	232	16	30m	Natural

### MEDIUM GAUGE/FLEXIBLE -30 METRE COIL

Part No	Tube (OD)	Tube (ID)	Max working pressure (PSI)	Max working pressure: Bar	Coil Length	Colour
NT804/F0/30	4	2.5	551	38	30m	Natural
NT805/F0/30	5	3.3	464	32	30m	Natural
NT806/F0/30	6	4	449	31	30m	Natural
NT808/F0/30	8	5.5	406	28	30m	Natural
NT810/F0/30	10	7	391	27	30m	Natural
NT812/F0/30	12	8.5	377	26	30m	Natural
NT816/F0/30	16	12	377	26	30m	Natural

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## COPPER TUBE

### FEATURES & BENEFITS

- Wade Copper Tube is manufactured to BS EN 12735-1 R220
- Fully annealed to allow maximum ease of bending
- Internal surfaces are cleaned and polished
- Suitable for use on general hydraulic and pneumatic applications
- Imperial and metric outside diameter plain copper tube supplied in 10 metre and 30 metre coils



### IMPERIAL -10 METRE COIL

Part No	Tube (OD)	Gauge	Max working pressure (PSI)	Max working pressure: Bar	Coil Length
MCT00/10M	1/8	22 SWG	4200	289	10m
MCT01/10M	3/16	22 SWG	4000	275	10m
MCT03/10M	1/4	20 SWG	3000	206	10m
MCT05/10M	5/16	20 SWG	2100	144	10m
MCT08/10M	3/8	20 SWG	1750	120	10m
MCT11/10M	1/2	20 SWG	1370	94	10m

### IMPERIAL -30 METRE COIL

Part No	Tube (OD)	Gauge	Max working pressure (PSI)	Max working pressure: Bar	Coil Length
MCT00/30M	1/8	22 SWG	4200	289	30m
MCT01/30M	3/16	22 SWG	4000	275	30m
MCT03/30M	1/4	20 SWG	3000	206	30m
MCT05/30M	5/16	20 SWG	2100	144	30m
MCT08/30M	3/8	20 SWG	1750	120	30m
MCT11/30M	1/2	20 SWG	1370	94	30m

### METRIC -10 METRE COIL

Part No	Tube (OD)	Wall Thickness	Max working pressure (PSI)	Max working pressure: Bar	Coil Length
CT204/10M	4	0.6mm	4119	284	10m
CT206/10M	6	1mm	2900	200	10m
CT208/10M	8	1mm	2320	160	10m
CT210/10M	10	1mm	1958	135	10m
CT212/10M	12	1mm	1232	85	10m

### METRIC -30 METRE COIL

Part No	Tube (OD)	Wall Thickness	Max working pressure (PSI)	Max working pressure: Bar	Coil Length
CT206/30M	6	1mm	2900	200	30m
CT208/30M	8	1mm	2320	160	30m
CT210/30M	10	1mm	1958	135	30m
CT212/30M	12	1mm	1232	85	30m

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## PVC COVERED COPPER TUBE



### FEATURES & BENEFITS

- Imperial and metric outside diameter  
PVC covered copper tube supplied  
in 30 metre coils

### IMPERIAL 1/32" THICK PVC COVERED -30 METRE COIL

Part No	Tube (OD)	Gauge	PVC OD	PVC Colour	Max working pressure (PSI)	Max working pressure (Bar)	Coil Length
PCT03A/6/30M	1/4	20 SWG	5/16	Black	3000	206	30m

### IMPERIAL 1/16" THICK PVC COVERED -30 METRE COIL

Part No	Tube (OD)	Gauge	PVC OD	PVC Colour	Max working pressure (PSI)	Max working pressure (Bar)	Coil Length
PCT03/6/30M	1/4	20 SWG	3/8	Black	3000	206	30m
PCT08/6/30M	3/8	20 SWG	1/2	Black	1750	120	30m
PCT11/6/30M	1/2	20 SWG	5/8	Black	1370	94	30m

### METRIC 1.0MM THICK PVC COVERED -30 METRE COIL

Part No	Tube (OD)	Wall Thickness	PVC OD	PVC Colour	Max working pressure (PSI)	Max working pressure (Bar)	Coil Length
PCT406A/6/30M	6	1mm	8	Black	2900	200	30m
PCT410A/6/30M	10	1mm	12	Black	1958	135	30m

### METRIC 1.5MM THICK PVC COVERED -30 METRE COIL

Part No	Tube (OD)	Wall Thickness	PVC OD	PVC Colour	Max working pressure (PSI)	Max working pressure (Bar)	Coil Length
PCT406/6/30M	6	1mm	9	Black	2900	200	30m
PCT408/6/30M	8	1mm	11	Black	2320	160	30m
PCT410/6/30M	10	1mm	13	Black	1958	135	30m
PCT412/6/30M	10	1mm	15	Black	1232	85	30m

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# Technical Specifications

The Wade range is known for its safety and reliability and includes thousands of products designed for use on hydraulic and pneumatic applications within a wide variety of industries.

Typically they can be found in general use throughout the automotive, railway, power

generation, instrumentation system, air conditioning, heating and ventilation, L.P.G., leisure, petroleum, oil and gas industries.

They are used on applications where there is a need for the added safety provided by an engineering fitting.

## MATERIAL STANDARDS FOR WADE MEDIUM PRESSURE BRASS COMPRESSION FITTINGS

Wade brass compression fittings are designed and manufactured to BS 2051 Part 2 and from material to the following standards;

**Bar Parts**      **BS-EN 12164:2011 CW614N**      Chemical composition % of grade CuZn39Pb3 ( CW614N )

Fe	Ni	Al	Cu	Pb	Sn	Others	
max 0.3	max 0.3	max 0.05	57 -59	2.5 -3.5	max 0.3	Total 0.2	Zn-remainder

**Stampings**      **BS-EN 12165:2011 CW617N**      Chemical composition % of grade CuZn40Pb2 ( CW617N )

Fe	Ni	Al	Cu	Pb	Sn	Others	
max 0.3	max 0.3	max 0.05	57 -59	1.6 -2.5	max 0.3	Total 0.2	Zn-remainder

## COPPER COMPRESSION RINGS & SEALING WASHERS: BS-EN 12449

Although 'Wade Couplings' are primarily designed for use with copper tubes the range also includes a variety of compression nuts and rings which provide additional jointing options for;

- PVC covered Copper tubes
- Nylon tube
- Polythene tubes
- Brass tube
- Bundy tube

The standard range is available to suit Imperial and Metric outside diameter tube sizes from 1/8" to 1" and 4mm to 28mm. Male and Female stud thread connection options include; BSP Parallel, BSP Taper and API / NPT from 1/8" to 1".

Note: Wade coupling bodies are designed for use with Wade compression nuts and rings. The component parts are not intended as interchangeable with other brands.

The recommended working pressures for the Wade brass compression fittings range conform to BS 2051 Part 1 for temperatures up to 65° C. The maximum recommended working pressures stated apply for use with Copper and PVC Covered Copper Tubes at ambient temperature.

Note: if other tube types are used these figures do not apply and the maximum working pressure and temperature will be limited by the tubing material, wall thickness and capability.

# Technical Specifications

## MAXIMUM RECOMMENDED WORKING PRESSURES AND TEMPERATURES FOR HYDRAULIC AND PNEUMATIC APPLICATIONS

For over 60 years the Wade brand has provided high quality, cost effective, brass compression fittings which ensure reliable leak tight joints.

### Applications

Wade brass compression fittings are designed and manufactured in accordance with BS 2051, for use on hydraulic and pneumatic applications.

With a reputation for safety and reliability, they can be found in general use on installations within the L.P.G., hydraulic, pneumatic, automotive, locomotive, power generation, air compressor, air conditioning, heating, ventilation, oil and gas industries.

### Quality

Wade brass compression fittings are manufactured from materials of the following standards:

- Bar Parts-BS EN 12164:2011 CW614N
- Stampings-BS EN 12165:2011 CW617N
- Copper Compression Rings & Sealing Washers-BS EN 12449

### Pressure

The recommended working pressures for the Wade range conform to BS 2051 Part 1 for temperatures up to 65° C\*. The pressure ratings below apply to Wade Medium Pressure Brass Compression Fittings when used with Copper and PVC Covered Copper Tubes.

\*For elevated temperatures please contact the Wade Sales Desk.

### Hydraulic Pressures (When used with Copper Tube) -Imperial

OD Size	PSI	Bar
1/8"	3045	210
3/16"	3045	210
1/4"	3045	210
5/16"	3045	210
3/8"	2030	140
1/2"	1522	105
5/8"	1522	105
3/4"	1015	70
1"	1015	70

### Pneumatic Pressures (When used with Copper Tube) -Metric

OD Size	PSI	Bar
4mm	1522	105
5mm	1522	105
6mm	1522	105
8mm	1522	105
10mm	1015	70
12mm	725	50
14mm	725	50
15mm	725	50
16mm	725	50
18mm	508	35
20mm	508	35
22mm	508	35
25mm	508	35

### Hydraulic Pressures (When used with Copper Tube) -Metric

OD Size	PSI	Bar
4mm	3045	210
5mm	3045	210
6mm	3045	210
8mm	3045	210
10mm	2030	140
12mm	1522	105
14mm	1522	105
15mm	1522	105
16mm	1522	105
18mm	1015	70
20mm	1015	70
22mm	1015	70
25mm	1015	70

### Pneumatic Pressures (When used with Copper Tube) -Imperial

OD Size	PSI	Bar
1/8"	1522	105
3/16"	1522	105
1/4"	1522	105
5/16"	1522	105
3/8"	1015	70
1/2"	725	50
5/8"	725	50
3/4"	508	35
1"	508	35

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# Technical Specifications

## WADE MEDIUM PRESSURE BRASS COMPRESSION FITTINGS: MAXIMUM RECOMMENDED WORKING PRESSURES AND TEMPERATURES FOR HYDRAULIC AND PNEUMATIC APPLICATIONS

'Wade Couplings' are primarily designed for use with copper tubes.

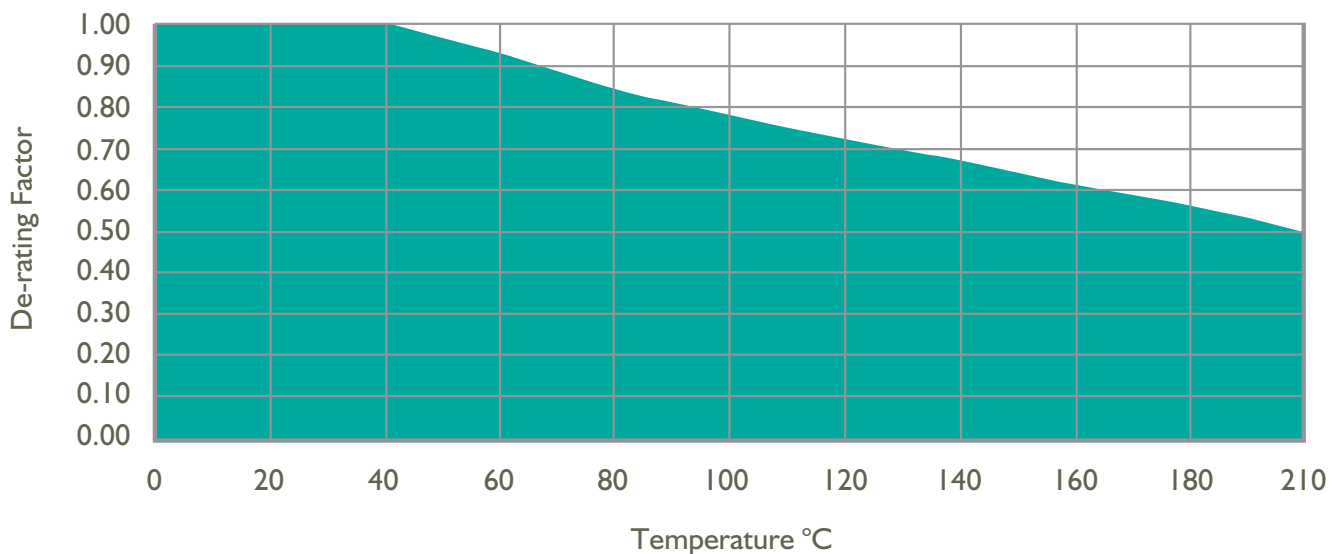
The recommended working pressures for our Wade range conform to BS 2051 Part I for temperatures up to 65° C, under essentially vibration free conditions.

The pressure ratings on the previous page apply to Wade Medium Pressure Brass Compression Fittings when used with Copper and PVC Covered Copper Tubes.

Wade Medium Pressure Brass Compression Fittings are suitable for use with Copper Tubes at elevated temperatures from 65° C up to 210° C. If the working temperature exceeds 65° C the 'Copper Tube Temperature De-Rating Chart' below should be used in conjunction with the Hydraulic and Pneumatic recommended working pressures detailed on the previous page.

Please note: For use at elevated temperatures, multiply the working pressure by the de-rating factor.

### COPPER TUBE TEMPERATURE DE-RATING CHART



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# Wade Compression Fittings Assembly Instructions

## ASSEMBLY INSTRUCTIONS

There are several basic rules which should be observed when jointing tubes with Wade medium pressure brass compression fittings.

**A:** Ensure that the tube is clean and cut square to the tube axis. Any burrs or sharp edges should be removed.

**B:** The tubing must be straight and in-line with the fitting body at the point of entry. Tube bends should only occur at a safe distance from the joint.

**C:** Ensure that the tube remains in line during the jointing operation as incorrect alignment may cause leakage.

**D:** If tube bending is required, the bending operation should be carried out prior to assembly using appropriate bending tools. Do not bend the tube after installation. This can cause side loading which could be detrimental to the performance of the joint.

**E:** Ensure that the recommended number of turns are applied, but not exceeded for the particular size and type of joint. Over tightening may cause either distortion or collapse of the compression ring and subsequent leakage from the joint.

## RE-ASSEMBLY INSTRUCTIONS

An important feature of the Wade compression fitting design is that if the correct assembly instructions are followed, the joints are re-makeable. The perfect seal which is created can be broken and remade many times without impairing the efficiency of the joint. This provides the added benefit of easy maintenance and serviceability.

It may be necessary periodically for maintenance work to be carried out that requires an installed system to be disconnected. When re-assembling a tube joint it should be remembered that, the number of turns that were applied to create the original joint will have caused the compression ring to compress & 'bite' into the outer diameter of the tube and consequently the number of turns required to re-seal the joint will be minimal. Further tightening of no more than 1/8 of a turn from the 'finger tight' position is required. Providing that the joints have not been previously over tightened they can be disconnected and re-made many times without impairing efficiency.

From a 'finger tight' position, the number of turns that are required to make a 'leak tight' joint are shown in the tables below.

## COPPER COMPRESSION RINGS

Imperial Size Range	Metric Size Range	Recommended Number of Turns
1/8" od to 3/8" od	4mm od to 10mm od	1-1/4 to 1-1/2
1/2" od to 1" od	12mm od to 28mm od	1 to 1-1/4

## BRASS '499' & 'MUR' TYPE COMPRESSION RINGS

Imperial Size Range	Metric Size Range	Recommended Number of Turns
1/8" od to 3/8" od	4mm od to 10mm od	1 to 1-1/4
1/2" od to 1" od	12mm od to 28mm od	3/4 to 1

## BRASS 'UNIVERSAL' COMPRESSION RINGS

Imperial Size Range	Metric Size Range	Recommended Number of Turns
All Sizes	All Sizes	3/4 to 1

## BRASS 'N' TYPE FERRULES

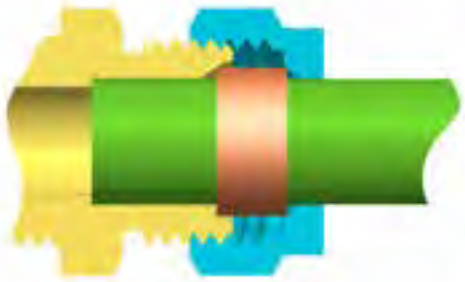
Imperial Size Range	Metric Size Range	Recommended Number of Turns
All Sizes	All Sizes	3/4 to 1

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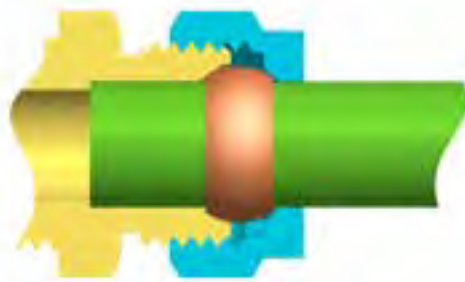


# Wade Compression Fitting Jointing Options

## STANDARD WADE JOINT FOR PLAIN COPPER TUBE



*Finger-Tight  
(Before Compression)*



*Spanner-Tight  
(After Compression)*

*Diagram illustrating assembly with Copper Tube using a Copper or Brass Compression Ring*

This coupling joint comprises a brass body and compression nut and either an annealed brass (imperial '499' or metric 'MUR' type) or copper compression ring. It represents the Wade compression joint in its simplest and most popular form. When correctly assembled it ensures that a perfect seal is obtained. After installation the assembled joint can be disassembled and remade several

times and will provide a sound joint on each occasion. It is important to note that when remaking the joint, the previous assembly will have produced a 'bite' onto the tube. Therefore the number of turns required to re-seal the assembly will be minimal. It is recommended that further tightening of approximately 1/8 of a turn from the 'finger tight' position, is required to re-create a seal.

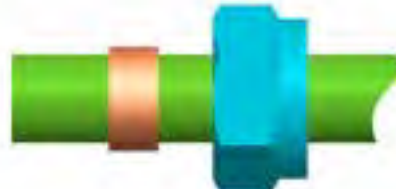
## WADE COPPER TUBE COUPLING JOINTS: ASSEMBLY INSTRUCTIONS

When using an Imperial or Metric Copper, Brass Imperial '499' or Metric 'MUR' type Compression Ring:

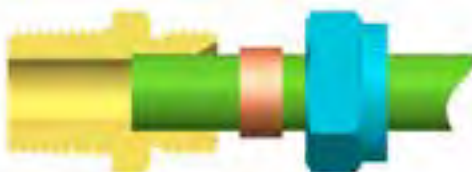
Ensure that the tube is cut square to the tube axis and is free from burrs.



Slip the Compression Nut onto the tube followed by the Compression Ring.



Insert the tube into the body of the compression fitting, ensuring that the end of the tube is seated firmly against the internal abutment shoulder.



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# Wade Compression Fitting Jointing Options

Slide the Compression Nut and Ring up to the body and tighten by hand to a 'finger-tight' position.



From the 'finger-tight' position, using a spanner, tighten the Compression Nut by the recommended number of turns.

## COPPER COMPRESSION RINGS

Imperial Size Range	Metric Size Range	Recommended Number of Turns
1/8" od to 3/8" od	4mm od to 10mm od	1-1/4 to 1-1/2
1/2" od to 1" od	12mm od to 25mm od	1 to 1-1/4

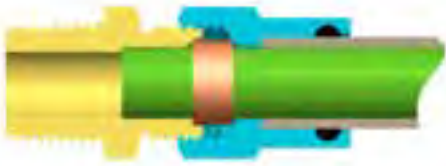
## BRASS '499' AND 'MUR' TYPE COMPRESSION RINGS

Imperial Size Range	Metric Size Range	Recommended Number of Turns
1/8" od to 3/8" od	4mm od to 10mm od	1 to 1-1/4
1/2" od to 1" od	12mm od to 25mm od	3/4 to 1

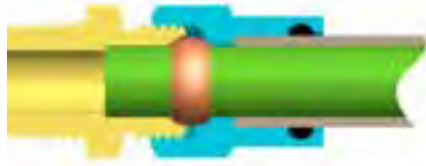
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# Wade Compression Fitting Jointing Options

## STANDARD PVC COVERED COPPER TUBE COUPLING JOINT



Finger-Tight (Before Compression)



Spanner-Tight (After Compression)

Diagram illustrating assembly with PVC Covered Copper Tube using a Copper Compression Ring

The 'PC' joint has been designed to enable connection of PVC covered copper tube with standard Wade coupling bodies and compression rings. It is used mainly in chemical and process industries which use PVC covered copper tubes in aggressive environments. The outer PVC cover prevents corrosive atmosphere contacting the copper tubing.

The 'PC' compression nut features a chamber and nitrile 'O' ring seal within one end, which is designed to both house and protect the outer PVC cover of the tube as it

enters the coupling, preventing atmospheric corrosion and contamination within the joint.

To make the joint the PVC cover should be stripped back to expose a short length of the plain copper tube, (This is the specified 'P Abutment' length on 'PC' Compression Nut catalogue page). The exposed plain copper section is then pushed through the front of the 'PC' compression nut and the joint is made on the tube by the standard Wade method (as explained on the previous pages).

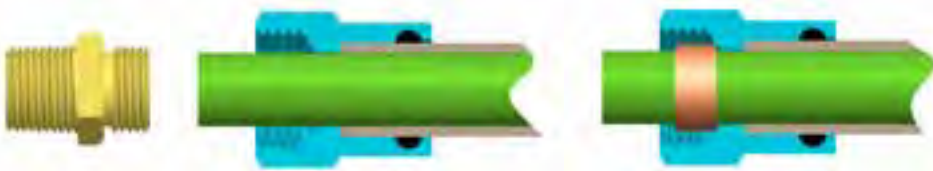
Assembly Instructions: When using an Imperial or Metric Copper, Brass Imperial '499' type or Metric 'MUR' type Compression Ring Ensure that the tube is cut square to the tube axis and is free from burrs.

Cut back the PVC cover, specified in this catalogue as 'P Abutment' length on the 'PC' Compression Nut dimensional table.

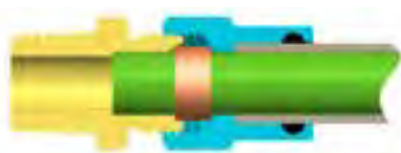
Remove all burrs and sharp edges from the end of the exposed copper tube.



Slip the 'PC' Compression Nut onto the tube until the 'O' Ring seal grips the PVC cover and slide the Compression Ring onto the exposed copper tube. Insert the tube into the body of the compression fitting, ensuring that the end of the tube is seated firmly against the internal abutment shoulder.



Slide the Compression Nut and Ring up to the body and tighten by hand to a 'finger-tight' position.



From the 'finger-tight' position, using a spanner, tighten the Compression Nut by the recommended number of turns

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# Wade Compression Fitting Jointing Options

## COPPER COMPRESSION RINGS

Imperial Size Range	Metric Size Range	Recommended Number of Turns
1/4" od to 3/8" od	6mm od to 10mm od	1-1/4 to 1-1/2
1/2" od to 3/4" od	12mm od	1 to 1-1/4

## BRASS '499' AND 'MUR' TYPE COMPRESSION RINGS

Imperial Size Range	Metric Size Range	Recommended Number of Turns
1/4" od to 3/8" od	6mm od to 10mm od	1 to 1-1/4
1/2" od to 3/4" od	12mm od	3/4 to 1

## STANDARD PVC COVERED COPPER TUBE COUPLING JOINT: AVAILABLE SIZES

Assemblies are available within the Wade range to enable jointing with Imperial and Metric PVC covered copper tubes of the following sizes:

**1/4" od Copper Tube with a 1/16" thick PVC cover**

**3/8" od Copper Tube with a 1/16" thick PVC cover**

**1/2" od Copper Tube with a 1/16" thick PVC cover**

**6mm od Copper Tube with a 1.5mm thick PVC cover**

**8mm od Copper Tube with a 1.5mm thick PVC cover**

**10mm od Copper Tube with a 1.5mm thick PVC cover**

**12mm od Copper Tube with a 1.5mm thick PVC cover**

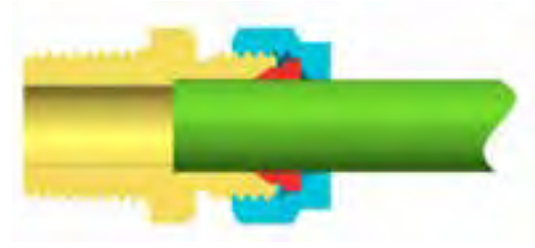
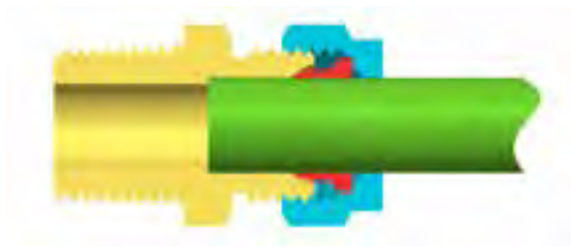
Please note, jointing options to suit other copper tube sizes and PVC cover thickness may be available on request.

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# Wade Compression Fitting Jointing Options

## WADE UNIVERSAL COMPRESSION COUPLING JOINT

Diagram illustrating assembly with Copper or Nylon Tube using a Universal Brass Compression Ring



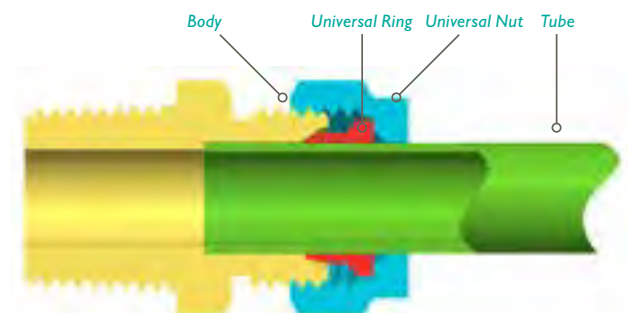
The 'Universal' joint has been designed to allow the use of a variety of tube materials with standard Wade coupling bodies and compression nuts. Commonly used with copper and nylon tubes it is also suitable for use with bundy tube. The 'Universal' joint provides the end user, distributor and stockist with the option of stocking one assembly suitable for a variety of applications.

The design of the Universal brass compression ring ensures self-alignment when assembled.

- One Ring for most Tube materials
- Self-aligning for quick installation
- Semi push-in feature
- Leak-proof
- Reduced stockholding
- Available in both imperial and metric sizes

This means that the tube can usually be offered into the assembled coupling without removing the compression nut and universal compression ring. Another feature of the design is that there is no requirement for an internal tube support or spigot when used with nylon tube.

This means that once the joint has been made there is less restriction within the tube bore ensuring minimum interference to the flow.



## ASSEMBLY INSTRUCTIONS: WHEN USING A 'UNIVERSAL' COMPRESSION RING

**A:** Ensure the nylon tube is cut square to the tube axis and is free from burrs.

**B:** Slip the Compression Nut onto the tube followed by the Compression Ring. The flat face at the top of the ring must sit within the compression nut with the angled end adjacent to the internal seating cone of the fitting body.

**C:** Insert the tube into the body of the compression fitting, ensuring that the end of the tube is seated firmly against the internal abutment shoulder.

**D:** Slide the Compression Nut and Ring up to the body and tighten by hand to a 'finger-tight' position.

From the 'finger-tight' position, using a spanner, tighten the Compression Nut by a recommended 3/4 to 1 full turn.

This applies to all 'Universal' Compression Rings within both the imperial and metric Wade range.

Wade Universal Compression Coupling Joint:  
Available Sizes

Assemblies are available within the Wade range to enable jointing with Imperial and Metric tubes of the following sizes:

**1/8" od, 3/16" od, 1/4" od, 5/16" od, 3/8" od,  
1/2" od, 4mm od, 5mm od, 6mm od, 8mm od,  
10mm od, 12mm od**

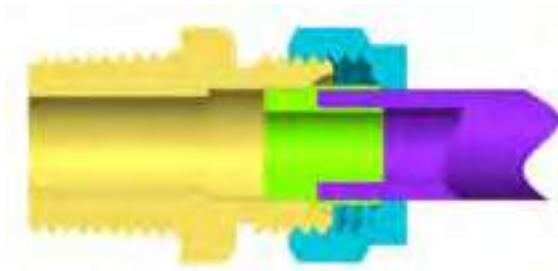
The Universal compression ring can also be supplied separately enabling conversion of customer's existing assembled stock. It is important to note that, the universal compression rings are designed for use with standard Wade brass compression bodies and universal compression nuts only, they should not be used with component parts from any other range of products.

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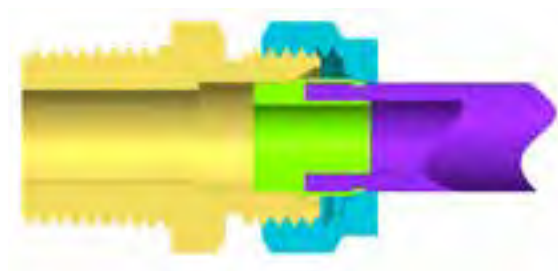


# Wade Compression Fitting Jointing Options

## STANDARD NYLON TUBE 'N' TYPE COUPLING JOINT



*Finger-Tight  
(Before Compression)*



*Spanner-Tight  
(After Compression)*

*Diagram illustrating assembly with Nylon Tube using a Brass 'N' Type Ferrule:*

The Wade brass 'N' ferrule and 'N' type joint have been designed to allow the use of nylon tube with standard Wade coupling bodies and compression nuts.

To prevent collapse of the nylon tube the design of the 'N' ferrule incorporates an internal spigot, providing support to the tube bore with minimum restriction to the flow diameter.

On compression the outer section of the 'N' ferrule grips the outside diameter of the nylon tube without undue cutting or distortion into the tube surface.

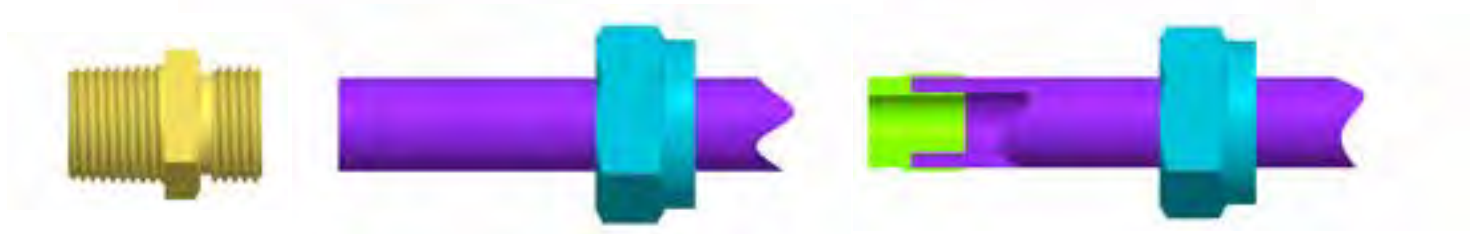
It is important to ensure that the correct size of 'N' ferrule is selected, corresponding to both the outside and inside diameter of the nylon tube being used.

### Assembly Instructions: when using an 'N' Type Ferrule

Ensure that the nylon tube is cut square to the tube axis and is free from burrs.



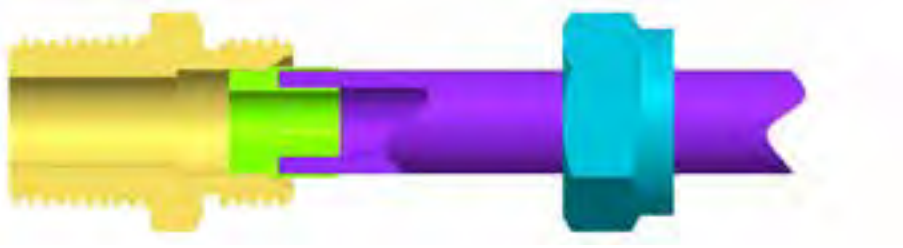
Slip the Compression Nut onto the tube and push the 'N' ferrule onto the end of the nylon tube.



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# Wade Compression Fitting Jointing Options

Insert the tube and 'N' ferrule into the body of the compression fitting.



Slide the Compression Nut up to the body and tighten by hand to a 'finger-tight' position.

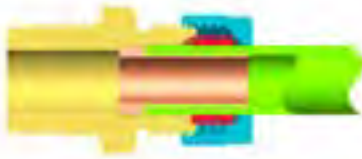


From the 'finger-tight' position, using a spanner, tighten the Compression Nut by a recommended  $\frac{3}{4}$  to 1 full turn. This applies to all 'N' ferrules within both the imperial and metric Wade range.

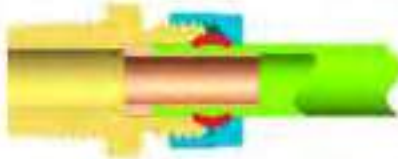
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# Wade Compression Fitting Jointing Options

## STANDARD POLY TUBE 'P' TYPE COUPLING JOINT



*Finger-Tight (Before Compression)*



*Spanner-Tight (After Compression)*

*Diagram illustrating assembly with Poly Tube using Brass 'P' Type Brass Spigot, Knurled Compression Nut and Polythene Compression Ring*

The Wade 'P' type joint have been designed to allow standard Wade compression coupling bodies to be adapted for use with Polythene tube.

The 'P' joint incorporates a brass spigot which provides an internal tube support, a polythene compression ring and a brass compression nut with a knurled external surface.

The joint is made by hand tightening the knurled compression nut which causes the polythene compression ring to grip the poly tube to achieve a perfect seal.

Assembly components required to make the Wade 'P' type joint:



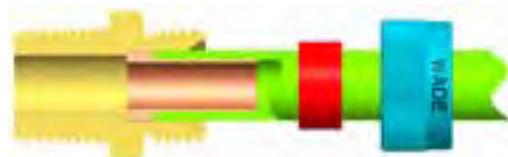
Assembly Instructions: when using a Polythene 'P' Type Compression Ring  
Ensure that the tube is cut square to the tube axis and is free from burrs.



Insert the brass spigot into the body of the compression fitting making sure that it is in line with the axis of the body. Slip the knurled Compression Nut onto the tube followed by the polythene Compression Ring.



Push the end of the tube over the spigot. It is important to ensure that the end of the tube is seated fully over the spigot.



Slide the Compression Nut and Ring up to the body and tighten by hand to a 'finger-tight' position.



From the 'finger-tight' position, fully tighten the knurled Compression Nut by hand

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# Technical Specifications

## THREAD TYPES FOR STANDARD WADE COMPRESSION ENDS

The standard compression ends on Wade Medium Pressure Brass Compression Fittings feature parallel male threaded bodies and parallel female threaded compression nuts. Compression ends to suit imperial outside diameter tube sizes are generally BSP threads. For metric outside diameter tube sizes the compression ends have metric threads.

Thread types and sizes of standard Imperial and Metric Wade compression ends are confirmed in the tables below.

The recommended hole diameters to be drilled through a panel to house a Wade bulkhead fitting with these compression ends and threads are detailed in the right hand column.

Imperial Sizes	Thread	Recommended Hole Diameter
1/8" OD	1/8" BSP	25/64" (0.391")
3/16" OD	1/8" BSP	25/64" (0.391")
1/4" OD	1/4" BSP	17/32" (0.531")
5/16" OD	1/4" BSP	17/32" (0.531")
3/8" OD	3/8" BSP	43/64" (0.672")
1/2" OD	1/2" BSP	27/32" (0.844")
5/8" OD	3/4" BSP	1 - 1/16" (1.062")
3/4" OD	7/8" BSP	1 - 13/64" (1.203")
7/8" OD	1" BSP	1 - 21/64" (1.328")
1" OD	1.461 x 11 WHIT	1 - 15/32" (1.469")

Metric Sizes	Thread	Recommended Hole Diameter
4mm OD	M8 x 1	9mm
5mm OD	M10 x 1	11mm
6mm OD	M10 x 1	11mm
8mm OD	M12 x 1	13mm
10mm OD	M16 x 1.5	17mm
12mm OD	M18 x 1.5	19mm
14mm OD	M20 x 1.5	21mm
15mm OD	M20 x 1.5	21mm
16mm OD	M22 x 1.5	23mm
18mm OD	M24 x 1.5	25mm
20mm OD	M27 x 1.5	28mm
22mm OD	M30 x 1.5	31mm
25mm OD	M33 x 1.5	34mm
28mm OD	M36 x 1.5	37mm

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# Check List

## WADE ENQUIRY SPECIFICATION QUESTIONNAIRE:

To enable us to identify the correct Wade product please confirm:

### Specification

What is the configuration of the fitting?

*Straight (In-line)*

☐

*90° Elbow*

☐

*Tee*

☐

*Other Type? (Please Specify)*

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What is the compression end size?

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What is the stud thread connection size?

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What is the stud thread connection type?

*BSP Parallel Male*

☐

*API (NPT) Male*

☐

*BSP Parallel Female*

☐

*API (NPT) Female*

☐

*BSP Taper Male*

☐

*Other Type? (Please Specify)*

☐

*BSP Taper Female*

☐

---

### Application

What is the application?

*Hydraulic*

☐

*Pneumatic*

☐

What is the flow medium?

---

What is the working pressure?

---

What is the material of the tubing being jointed?

---

What is the outside diameter of the tubing?

---

What is the working temperature?

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## 1. What Quality standard do you have currently in place for Wade?

The design, capability & performance are in accordance with BS2051 parts 1 & 2. There are also additional material standards with regards to the construction.

## 2. What materials and standards do we manufacture Wade brass compression fittings from?

This information can be found on Page 4: 'Technical Information and Standards'.

## 3. What types of pipe can Wade fittings be used with?

Wade fittings are primarily designed for use with copper tubes but covered for:

- i. PVC covered copper tube
- ii. Nylon tube
- iii. Polythene tube
- iv. Brass & Bundy tube

## 4. How long can the Wade Fittings last?

Wade fittings are designed to be long standing, but the working conditions, pressure, temperatures, flow medium and installation environment will impact these. For more information on specific items please contact the Sales Team on 01473 277 460.

## 5. Do I need tools to connect Wade fittings?

Wade fittings are designed for use with standard tools. Normally set spanners (not adjustable) would be used to make the joints. The simple design principle enables quick and easy installation with no requirement for special installation skills.

## 6. Is a Wade fitting re-usable?

Joints are designed to be re-makeable. Correct assembly creates a perfect seal that can be broken and remade without impairing the efficiency of the joint. This enables easy maintenance and serviceability. In addition, if a system needs to be dismantled and replaced with new tubing it should be possible to re-use the existing component bodies (as long as they have not been damaged) and re-assemble with replacement compression nuts and rings.

## 7. Can a Wade fitting be rotated on the pipe?

Once installed, Wade compression fittings should not be 'rotated' on the pipe. To rotate a fitting, you would need to relax the joint and break the seal.

## 8. What are the maximum temperature and pressure ratings for Wade fittings?

The maximum working temperature for a Wade brass compression fitting is:

- 210 ° C if used with Copper tube
- 80 ° C if used with Nylon tube
- 60 ° C if used with Polythene tube

# FAQ's

The maximum pressure rating is dependent on a combination of factors:

- Tube size
- Working pressure
- Working temperature
- Application: Hydraulic or Pneumatic

The smaller the size the higher the pressure. The pressure rating for a hydraulic application is approximately double the pressure rating for a pneumatic application.

## 10. What are the available set pressures for Wade Safety Relief Valves?

Wade safety relief valves are available at set pressures within a range from 1.8 to 20.1 Bar.

## 11. How long will it take for my products to be delivered?

The majority of our products are existing stock, please contact the Sales Team on 01473 277 460 and they will confirm an accurate lead time for your products.

## 12. What are the applications where Wade Fittings are used?

- a. Hydraulic applications: Confirmation of the maximum recommended working pressures and temperatures for Wade brass compression fittings used with copper tube on hydraulic applications can be found on pages 116 and 117
- b. Pneumatic applications: Confirmation of the maximum recommended working pressures and temperatures for Wade brass compression fittings used with copper tube on pneumatic applications can be found on pages 116 and 117

## 13. I can't find the parts I need in this catalogue, who do I contact?

Please contact our Sales Team on 01473 277 460 or email [wadesales@cranebsu.com](mailto:wadesales@cranebsu.com)

## 14. Sales - Who do I need to contact if I require products from our other Crane brands.

For information on the other Crane brands which are available from our Hitchin site, please refer to the contact list below:

**brownall**<sup>TM</sup>

01462 443277 or [brownallsales@cranebsu.com](mailto:brownallsales@cranebsu.com)

**CRANE** FLUID SYSTEMS

01473 277300 or [enquiries@cranebsu.com](mailto:enquiries@cranebsu.com)

**Hattersley**<sup>TM</sup>

01473 277410 or [uksales@hattersley.com](mailto:uksales@hattersley.com)

**iats**<sup>TM</sup>

01462 443 220 or [iatsales@cranebsu.com](mailto:iatsales@cranebsu.com)

**NABIC**<sup>TM</sup>

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01462 443131 or [info@posiflex.co.uk](mailto:info@posiflex.co.uk)

**RHODES**<sup>TM</sup>

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**SPERRYN**  
**GAS CONTROLS**<sup>TM</sup>

01462 443 226 or [sperrynsales@cranebsu.com](mailto:sperrynsales@cranebsu.com)

**WASK**<sup>TM</sup>

01462 443 225 or [sales@wask-uk.com](mailto:sales@wask-uk.com)

**VIKING JOHNSON**<sup>TM</sup>

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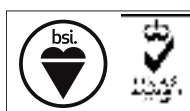
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ISO 9001

- Designed and manufactured under quality management systems in accordance with BS EN ISO 9001-2008

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