



BARION Engineering

MALLEABLE PIPE FITTINGS



 **JIANZHI**
Brought to you by
Barton Engineering

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THE COMPANY - BARTON ENGINEERING FZE

Barton Engineering FZE supplies and distributes the premium quality Barton brand of rigid and flexible hot dipped galvanised steel conduit, along with all associated electrical cable management systems and a wide range of accessories and fittings.

Barton Engineering operates from its regional distribution centre located within the Jebel Ali Free Zone, Dubai, UAE, and has a subsidiary in Riyadh, Saudi Arabia.

Barton products are renowned for their high quality and competitive pricing and are available via a network of approved distributors.

THE QUALITY - BARTON ENGINEERING ISO 9001:2015 QUALITY MANAGEMENT SYSTEM (QMS)

The premium quality products listed in this brochure are manufactured in accordance with the globally recognised and independently audited ISO 9001:2015 Quality Management System. This assures products are produced in accordance with the highest relevant international quality standards.

In addition to ISO 9001:2015, Barton Engineering FZE operations are subject to continuous assessment programmes including the Environmental Management Standard, ISO 14001:2015 and the Occupational Health and Safety Standard ISO 45001:2018.

THE SERVICE

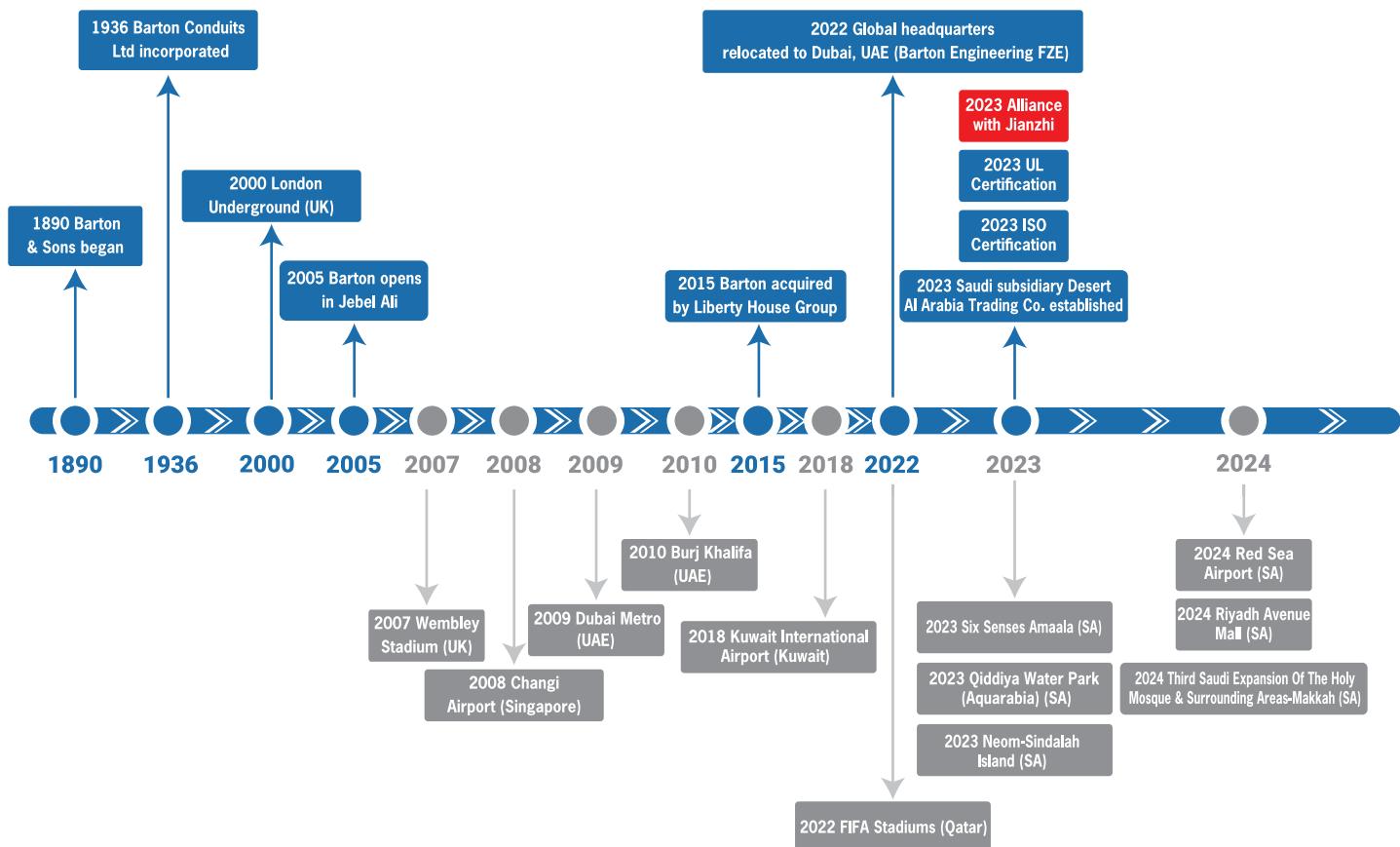
Barton provides a highly efficient customer-focused operation, driving customer trust and satisfaction, with a wide range of premium quality products, produced using controlled processes. Fully trained specialist technical sales personnel are available to support all clients at all times.

STANDARDS

Barton products are manufactured in accordance with the relevant standards, details of which are given below:

| PRODUCT | STANDARDS | PRODUCT | STANDARDS |
|--|--|--------------------------|--|
| Rigid Steel Conduit, Fittings & Accessories | BS 4568 Part 1 & 2 BS EN 50086-1 BS EN 5086-21 BS EN 61386-1 BS EN IEC 61386-21 BS 31 | Flexible Conduit | BS EN IEC 61386-23 2021+A11:2021 UL1 UL 360 |
| Switch and Socket Boxes | BS 4662 BS EN 50086 BS 4678 | EMT Conduit | ANSI C80.3 UL 797 UL 514B UL 2239 |
| Adaptable Boxes | Bs 4568 Part 2 BS 60670 | Mechanical Pipe Fittings | UL 213 EN 10242 or ISO 49 |

With over 130 years of history in the manufacturing and supply of conduit and fittings to the electrical industry, Barton Engineering has expanded into mechanical pipe fittings through a strategic alliance with Jianzhi, a large supplier of malleable fittings based in China known for their exceptional quality. This collaboration allows customers to purchase electrical and mechanical fittings from a single source, Barton Engineering.



BARTON PRODUCT RANGE

- Rigid Conduit, Fittings & Accessories - BS Standards
- Flexible Conduit & Accessories - BS & UL Standards
- Adaptable Boxes/Switch & Socket Boxes/Utility Boxes
- EMT Conduit & Accessories - UL Standard
- RGS-RMC Conduit Systems
- IMC Conduit Systems
- Stainless Steel Cable Management System

MANUFACTURING OF MALLEABLE PIPE FITTINGS WITH ADVANCED PRODUCTION EQUIPMENT

High quality products are produced using sophisticated production equipment. All production workshops at JIANZHI are equipped with advanced production and testing machinery. This includes automated vertical DISA moulding lines from Denmark, automated horizontal moulding lines from Japan, and FONDARC sand mixers from France.

Process quality checks are completed using advanced laboratory testing equipment and other related facilities.



MALLEABLE PIPE FITTINGS - AN OVERVIEW

| | |
|--------------------------------|---|
| Material | EN1562 or ISO5922 |
| Design & Dimensions | EN10242 or ISO49 |
| Threads | EN10226 or ISO7-1 |
| Tensile Strength | 350 MPa |
| Elongation | 10% |
| Zinc Coating | 70µm |
| Working Pressure | 363 PSI |
| Size Available | 1/8" to 6" |
| Types | Heavy Duty Banded, Medium Duty Banded, Light Duty Beaded |
| Surface Treatment | Hot Dipped Galvanised, Black |

APPLICATIONS



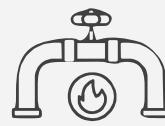
Fire pipes



Water supply pipeline



System water pipeline



Building gas pipeline



Water treatment

STANDARD REFERENCES

The threaded pipe fittings of the JIANZHI brand brought to you by Barton Engineering in malleable cast iron comply with the international ISO 49 and the European EN 10242 standards. The connecting threads conform to the international ISO 7-1 and the European EN 10226 standards. The material used is high-quality blackheart malleable cast iron, meeting the requirements of EN 1562:EN-GJMB-350-10 (ISO 5922). These products are primarily utilised in installations linked to water, gas, oil, and other fluid systems. Their primary function is to connect pipes or alter the direction of fluid flow.

1. REQUIRED CHARACTERISTICS

1.1 Permissible working pressure and temperature

Fittings of all sizes are required to be suitable for maximum permissible working pressures within the temperature ranges specified in Table 1. Intermediate pressure ratings at temperatures between 120°C and 300°C shall be obtained by linear interpolation. The lowest service temperature for fittings is -20 degrees Celsius in normal applications. It is recommended to consult the manufacturer for special applications at temperatures below -20°C.

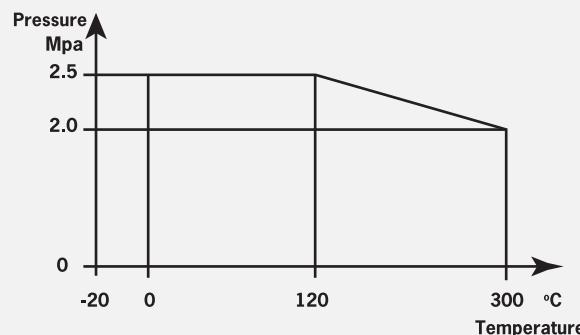


Figure1 - Pressure/temperature ratings

TABLE 1 - PRESSURE/TEMPERATURE RATINGS

| Service temperature °C | Maximum permissible working pressure Mpa |
|------------------------|--|
| -20 to 120 | 2.5 |
| 120 to 300 | Interpolated values |
| 300 | 2.0 |

2. SURFACE FINISH

Black (self colour) or hot dipped galvanised finishes are available. The zinc coating meets the following requirements.

2.1 Chemical composition of the zinc coating

The content by mass of the accompanying elements in the finished zinc coating meets the requirements of ISO 49.

2.2 Coating mass per surface unit

The surface-related mass of the zinc coating is not less than 500g/m², (the average result taken from 5 fittings). This corresponds to a layer thickness of 70µm. When measured on an individual sample, the thickness shall be more than 450g/m² (63µm).

2.3 Surface condition of the zinc coating

The zinc coating on the internal surface of the fitting is continuous, except for machined black surfaces. In the special case of larger material cross-sections, the iron-zinc alloy phases may grow through. The internal zinc coating is free from zinc blisters, zinc burrs, and non-metallic remainders.

3. DIMENSIONS & TOLERANCES

The main dimensions of the pipe fittings are given in the product specification and dimension table on the following pages. Where maximum or minimum dimensions are not specified, the tolerances for face-to-face and face-to centre dimensions of pipe fittings are as given in Table 3.

TABLE 3 - TOLERANCE ON LENGTH

| Dimension mm | ≤30 | >30 to ≤50 | >50 to ≤75 | >75 to ≤100 | >100 to ≤150 | >150 to ≤200 | >200 |
|--------------|------|------------|------------|-------------|--------------|--------------|------|
| Tolerance | ±1.5 | ±2.0 | ±2.5 | ±3.0 | ±3.5 | ±4.0 | ±5.0 |

NOTE:

The face-to-face and face-to-centre dimensions of unions may not always comply with the specified tolerance due to the compound effect of piece tolerances and design on the final assembly.

Laying lengths are provided to assist and guide during installation. Their accuracy depends on the tolerance of the threads specified in ISO 7-1 (or EN 10226).

4. THREADS

4.1 Choice of Thread

4.1.1 Fittings must be threaded in accordance with ISO 7-1 (or EN 10226).

4.1.2 The threads of backnuts, union nuts, and their mating threads must comply with ISO 228-1 (or EN ISO 228)

4.2 Alignment of Threads

The axes of the screw threads are accurate within $\pm 0.3^\circ$ of the specified angle.

4.3 Chamfering

The outlets of the fittings must have a chamfer. For internal threads, the chamfer must have a minimum included angle of 90° , and the diameter at the face must exceed the major diameter of the thread. For external threads, the chamfer should have a minimum included angle of 60° , and the diameter at the face must not exceed the minor diameter of the thread at that face.

4.4 Taper thread

The basic form of the taper pipe thread is illustrated in Figure 2. The taper is 1 to 16, measured on the diameter. The angle between the flanks, measured in an axial plane section, is 55° , with the flanks making equal angles with the axis.

The thread profiles are equally rounded off at the crests and roots by circular arcs, blending tangentially with the flanks in a manner that maintains the same thread height, denoted as 'h,' as that for parallel threads.

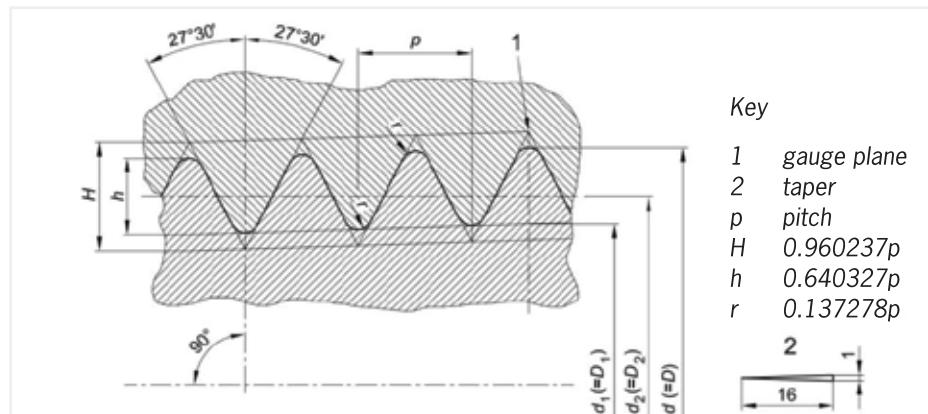


Figure 2 - Taper thread

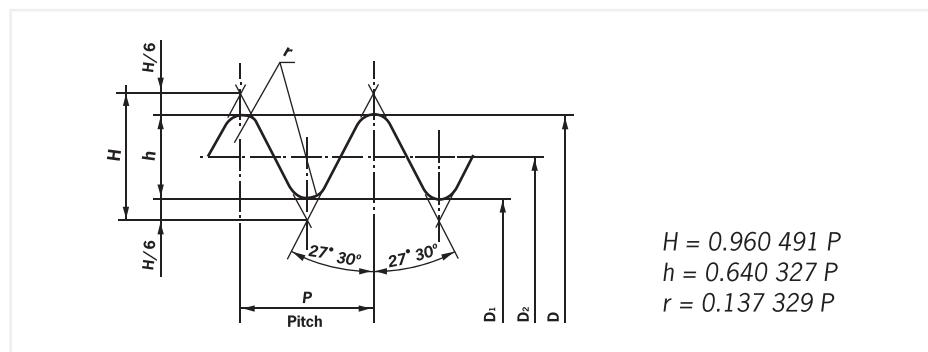


Figure 3 - Parallel thread

4.5 Parallel thread

The basic form of the parallel pipe thread is depicted in Figure 3. The angle between the flanks, measured in an axial plane section, is 55° .

The thread profiles are equally rounded at both crests and roots by circular arcs, blending tangentially with the flanks.

4.6 Thread lengths

4.6.1 External thread

The terminologies associated with the external taper pipe thread are illustrated in Figure 4. The length of the usable thread, allowable in practice, is the sum of the complete and incomplete thread lengths, excluding the washout thread. The minimum length of the usable thread should not be less than the minimum gauge length plus the fitting allowance.

4.6.2 Internal thread

The design of internally threaded parts is such that they can receive external threads up to the lengths specified in Column 16 of Table 4. The minimum lengths (L_{min}) of the usable thread in the case of internal threads with free run-out should be at least 80% of the values specified in Column 17 of Table 4 (refer to Figure 5).

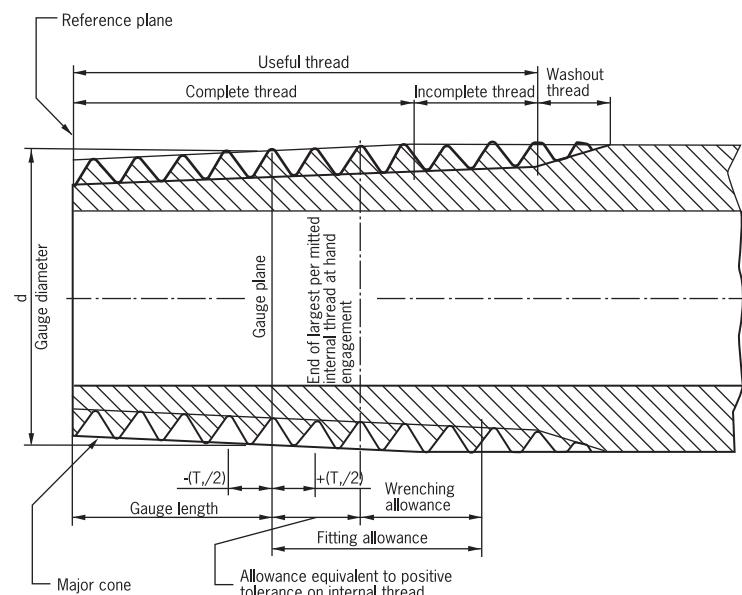


Figure 4 - The terminologies associated with the external taper pipe thread

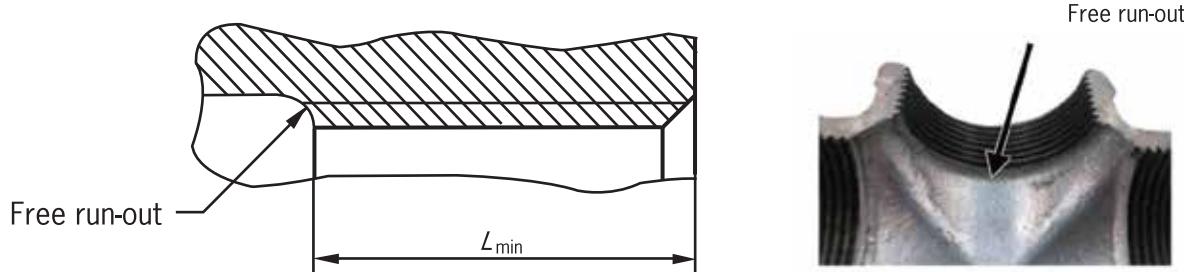


Figure 5 - Internal threads with free run-out

Dimensions in millimetres

| 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | |
|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|
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TABLE 4 - THREAD DIMENSIONS

5. LEAK TIGHTNESS TEST

One of the methods below will be used to test all pressure-containing fittings after they have been machined, but before any protective coating is applied other than zinc coating. The objective of this test is to ensure that each fitting does not display any signs of leakage. To ensure the authenticity of the test results, all test equipment is fitted with a qualified pressure gauge for monitoring.

- a) By applying an internal hydrostatic pressure of at least 2 MPa, test requirements refer to Table 5.

TABLE 5 - TEST REQUIREMENTS

| Pipe fitting dimensions (inch) | Test time (s) | Test result |
|--------------------------------|---------------|--------------------------------|
| 1/8 to 2 | ≥15 | Each fitting must not show any |
| 2 1/2 to 6 | ≥60 | signs of leakage or damage |

- b) Using an internal pneumatic pressure of no less than 0.5 MPa, while the fitting is fully submerged in water or light oil.
- c) By other tests that ensure a similar level of quality.

All malleable pipe fittings successfully pass an internal pneumatic pressure tightness test of 0.6 MPa without any signs of leakage.

6. GUIDE/INTRODUCTION

1. BPF Barton Pipe Fittings
2. 9006 The code & the size of the pipe fittings
3. B Black
4. G Galvanised

For example: BPFE9006B = Barton Brand, Equal Elbow, 1/8", Black Finish
 BPFET006G = Barton Brand, Equal Tee, 1/8", Galvanised Finish



Heavy Banded



Medium Banded



Light Beaded

CERTIFICATES

Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 9001:2015

This is to certify that:

Barton Engineering FZE
Street 5701, Pict S30216,
South Zone 3, Jebel Ali Free Zone
26,3871 Dubai
United Arab Emirates

Holds Certificate No:FS 773413

and operates a Quality Management System which complies with the requirements of ISO 9001:2015 for the following scope:

The supply, stockholding and distribution of GI conduit, flexible conduit and EMT conduit tubes including trunking, cable tray, fittings, conduit accessories, electrical enclosures, switch, socket boxes and temporary wireless fire alarm systems.

For and on behalf of BSI:

Original Registration Date:2023-06-16

Latest Revision Date:2023-06-16

Therese Kotze, Managing Director Assurance • IMETA

Effective Date:2023-09-16

Expiry Date:2024-06-15

Page: 1 of 1

making excellence a habit™

This certificate was issued electronically and is the property of BSI and is bound by the conditions of contract.

An electronic certificate can be authenticated at <https://www.bsigroup.com/certification/bsi-certificate-authentication>

Information and Contact: BSI, Kitemark Court, Davy Avenue, Kitemark Park, Bognor Regis, West Sussex, PO18 0PP, Tel: +44 1235 800 0000

BSI Assurance UK Limited, registered in England under number 7805121 at 389 Chiswick High Road, London W4 4AL, UK.

A Member of the BSI Group of Companies.

The image shows a yellow vertical banner on the left with the word "VERITAS" in large, bold, white capital letters. To its right is a circular blue seal for "VERITAS ASSURANCE" featuring a scale of justice and a key. The main title "CERTIFICATE OF REGISTRATION" is at the top in blue. Below it, "Barton Engineering FZE" is in large black font, followed by its address: "P.O. Box 263071, Street 5701, Plot 50216, South Zone 3, Jebel Ali Free Zone, Dubai, United Arab Emirates". A statement follows: "It has been assessed and registered by Veritas System Quality Certificates as conforming to the requirements of ISO 45001:2018 Occupational Health & Safety Management System". The text "The Occupational Health & Safety Management System is applicable to: Manufacturing, Steel & Alloy Products Cutting, Supply, Stockholding, Distribution of GI Conduits, Flexible Conduits, EMT Conduits Tubes including Trunking, Cable Tray, Conduit Tube and Fittings, Conduit Accessories, Electrical Enclosures, Switch & Socket Boxes, and Temporary wireless Fire Alarm System." is detailed below. A QR code is at the bottom right.

The image shows a Quality Management System (QMS) certificate from China Quality Management (CQM). The certificate is for Hebei Jianzhi Casting Group Ltd., located in Tangshan City, Hebei, China. It is certified under GB/T 19001-2016/ISO 9001:2015. The certificate number is 00221Q27526R5L. The validity period is from 2023-12-08 to 2026-11-24. The certificate includes logos for IAF, CNAS, FIM, R2, and IQNET, and features a red circular seal with the text '中国质量管理体系认证' and a star.

The image shows a formal certificate for an Environmental Management System (EMS) certification. The header features the 'CQM China Quality Mark' logo. The main title is 'Environmental Management System Certificate' followed by 'Certificate Number: 0022034996RSL'. Below this, it states 'CQM hereby certifies that Hebei Jianzhi Casting Group Ltd. has established and effectively implemented an environmental management system in accordance with GB/T 24001-2016/ISO 14001:2015'. A note indicates the certificate is valid until 2023-12-06. Logos for IAF, CNAS, and IQNET are present at the bottom.

Certificate of Compliance

This certificate is issued for the following:

Non-Gasketed Pipe Fittings for Aboveground Fire Protection Systems

| | | | |
|----------------------------|-----------------------------|-----------------------------|------------------------|
| Model XGQT16 | Model XGQT09 | Model XGQT07 | Model XGQT08 |
| Grooved End Cap | Grooved Equal Cross | Equal Tee | Grooved Reducing Tee |
| Model XGQT03 | Model XGQT04 | Model XGQT05 | Model XGQT08S |
| 90 Degree Grooved Elbow | 45 Degree Grooved Elbow | Model XGQT11S | Threaded Reducing Tee |
| Model XGQT11 | Model XGQT11S | Threaded Concentric Reducer | Model XGQT10S |
| Grooved Concentric Reducer | Threaded Concentric Reducer | Threaded Reducing Cross | Model XGQT10 |
| Model XGQT05 | Model XGQT06 | Model XGQT10 | Grooved Reducing Cross |
| 22.5 Degree Grooved Elbow | 11.25 Degree Grooved Elbow | Model XGQT10 | |

Prepared for:
Hebei Jianzhi Casting Group Co Ltd
Pang Zhuang Zi
Southeast of Yutian County
Tangshan City, Hebei Province 064100
China

Manufactured at:
Hebei Jianzhi Casting Group Co Ltd
Pang Zhuang Zi
Southeast of Yutian County
Tangshan City, Hebei Province 064100
China

FM Approvals Class: 1920 - "Pipe Couplings and Fittings for Aboveground Fire Protection Systems"
Approval Identification: 3054543 **Approval Granted:** July 16, 2015
Approval Reissued: August 28, 2015

To verify the availability of the Approved product, please refer to www.approvalguide.com

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

David B. Fuller
AVP, Manager of Fire Protection
FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062

Certificate of Compliance

This certificate is issued for the following:

Non-Gasketed Pipe Fittings for Use with Aboveground Fire Protection Systems

| | | |
|-----------------------------|-----------------------------------|-------------------------------|
| Model 90 | Model 90R | Model 130 |
| Malleable Iron 90° Elbow | Malleable Iron 90° Reducing Elbow | Malleable Iron Equal Tee |
| Model 130R | Model 180 | Model 180R |
| Malleable Iron Reducing Tee | Malleable Iron Equal Cross | Malleable Iron Reducing Cross |

Prepared for:
Hebei Jianzhi Casting Group Co Ltd
Pang Zhuang Zi
Southeast of Yutian County
Tangshan City, Hebei Province 064100
China

Manufactured at:
Hebei Jianzhi Casting Group Co Ltd
Pang Zhuang Zi
Southeast of Yutian County
Tangshan City, Hebei Province 064100
China

FM Approvals Class: 1920 - "Pipe Couplings and Fittings for Aboveground Fire Protection Systems"
Approval Identification: 3058846 **Approval Granted:** May 5, 2017

To verify the availability of the Approved product, please refer to www.approvalguide.com

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

David B. Fuller
AVP, Manager of Fire Protection
FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062 USA

Certificate of Compliance

This certificate is issued for the following:

Non-Gasketed Pipe Fittings for Use with Aboveground Fire Protection Systems

| | | |
|----------------------------------|-----------------------------------|-----------------------------------|
| Model 291 | Model 241 | Model 280 |
| Malleable Iron Plug | Malleable Iron Bushing | Malleable Iron Pipe Nipple |
| Model 270 | Model 240 | Model 240 |
| Malleable Iron Straight Coupling | Malleable Iron Concentric Reducer | Malleable Iron Concentric Reducer |

Prepared for:
Hebei Jianzhi Casting Group Co Ltd
Pang Zhuang Zi
Southeast of Yutian County
Tangshan City, Hebei Province 064100
China

Manufactured at:
Hebei Jianzhi Casting Group Co Ltd
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Tangshan City, Hebei Province 064100
China

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David B. Fuller
AVP, Manager of Fire Protection
FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062 USA

CERTIFICATE OF COMPLIANCE

Certificate Number: MH61984
Report Reference: MH61984-20161228
Date: 2023-February-22

Issued to: HEBEI JIANZHI CASTING GROUP LTD
Pangzhuangzi
Southeast of Yutian County
Tangshan Hebei 064000 CN

This is to certify that representative samples of DRINKING WATER SYSTEM COMPONENTS See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: NSF/ANSI/CAN 61-2022 - Drinking Water System Components - Health Effects and NSF/ANSI 372 - Drinking Water System Components - Lead Content

Additional Information: See the UL Online Certifications Directory at <https://ulprospector.com> for additional information

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

CERTIFICATE OF COMPLIANCE

Certificate Number: MH61984
Report Reference: MH61984-20161228
Date: 2023-February-22

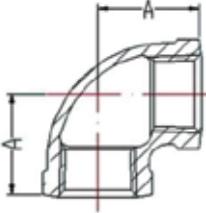
This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

[a] "ELBOW" [a], "TEE" [a], "CROSS" [a], "CROSSOVER" [a], "BEND" [a], "SOCKET" [a], "M/F REDUCER" [a], "CAP" [a], "PLUG" [a], "UNION" [a], "UNION ELBOW" [a], "SIDE OUTLET ELBOW" [a], "DRINKING ELBOW" [a], "HEXAGONAL NIPPLE" [a]

[a] Water contact can be Galvanized Iron and Non-Galvanized Iron

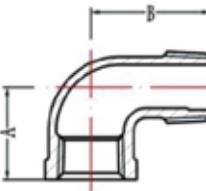
Deborah Jennings-Corcoran, VP Regulatory Services
UL LLC
Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact ebs@ul.com. Customer Service Representative at ul.com/contactus.

90° EQUAL ELBOW

| Part Code | BSPT | DN | A (mm) | Pcs/Ctn |
|-----------|--------|-----|--------|---------|
| BPFE9006 | 1/8" | 6 | 18 | 600 |
| BPFE9008 | 1/4" | 8 | 20 | 600 |
| BPFE9010 | 3/8" | 10 | 24 | 500 |
| BPFE9015 | 1/2" | 15 | 27 | 400 |
| BPFE9020 | 3/4" | 20 | 32 | 210 |
| BPFE9025 | 1" | 25 | 37 | 120 |
| BPFE9032 | 1-1/4" | 32 | 44.5 | 64 |
| BPFE9040 | 1-1/2" | 40 | 48.5 | 48 |
| BPFE9050 | 2" | 50 | 57 | 32 |
| BPFE9065 | 2-1/2" | 65 | 68.5 | 16 |
| BPFE9080 | 3" | 80 | 77.5 | 10 |
| BPFE90100 | 4" | 100 | 96.5 | 6 |
| BPFE90150 | 6" | 150 | 129 | 2 |

90° EQUAL ELBOW M&F

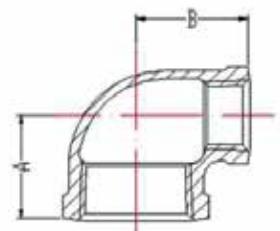



| Part Code | BSPT | DN | A (mm) | B (mm) | Pcs/Ctn |
|--------------|--------|-----|--------|--------|---------|
| BPFEEMF9008 | 1/4" | 8 | 20 | 28 | 600 |
| BPFEEMF9010 | 3/8" | 10 | 25 | 33 | 500 |
| BPFEEMF9015 | 1/2" | 15 | 28 | 38 | 300 |
| BPFEEMF9020 | 3/4" | 20 | 33 | 44 | 180 |
| BPFEEMF9025 | 1" | 25 | 38 | 52 | 104 |
| BPFEEMF9032 | 1-1/4" | 32 | 45 | 60 | 60 |
| BPFEEMF9040 | 1-1/2" | 40 | 50 | 65 | 52 |
| BPFEEMF9050 | 2" | 50 | 58 | 74 | 26 |
| BPFEEMF9065 | 2-1/2" | 65 | 69 | 90 | 12 |
| BPFEEMF9080 | 3" | 80 | 77.5 | 100 | 10 |
| BPFEEMF90100 | 4" | 100 | 96.5 | 120 | 6 |

*Black (B) & Galvanised (G) finish is available on request.

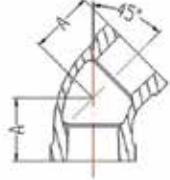
90° REDUCING ELBOW

| Part Code | BSPT | DN | A (mm) | B (mm) | Pcs/Ctn |
|------------|-----------------|----------|--------|--------|---------|
| BPFRE1510 | 1/2" X 3/8" | 15 X 10 | 25 | 25 | 270 |
| BPFRE2015 | 3/4" X 1/2" | 20 X 15 | 29 | 30 | 270 |
| BPFRE2510 | 1" X 3/8" | 25 X 10 | 29 | 31 | 160 |
| BPFRE2515 | 1" X 1/2" | 25 X 15 | 31 | 33 | 160 |
| BPFRE2520 | 1" X 3/4" | 25 X 20 | 34 | 35 | 160 |
| BPFRE3210 | 1-1/4" X 3/8" | 32 X 10 | 31 | 36 | 100 |
| BPFRE3215 | 1-1/4" X 1/2" | 32 X 15 | 34 | 37 | 100 |
| BPFRE3220 | 1-1/4" X 3/4" | 32 X 20 | 36 | 40 | 100 |
| BPFRE3225 | 1-1/4" X 1" | 32 X 25 | 40 | 41 | 90 |
| BPFRE4015 | 1-1/2" X 1/2" | 40 X 15 | 35 | 41 | 90 |
| BPFRE4020 | 1-1/2" X 3/4" | 40 X 20 | 37 | 43 | 90 |
| BPFRE4025 | 1-1/2" X 1" | 40 X 25 | 41 | 45 | 70 |
| BPFRE4032 | 1-1/2" X 1-1/4" | 40 X 32 | 45 | 47 | 56 |
| BPFRE5015 | 2" X 1/2" | 50 X 15 | 37 | 47 | 68 |
| BPFRE5020 | 2" X 3/4" | 50 X 20 | 40 | 49 | 52 |
| BPFRE5025 | 2" X 1" | 50 X 25 | 43 | 51 | 50 |
| BPFRE5032 | 2" X 1-1/4" | 50 X 32 | 47 | 53 | 40 |
| BPFRE5040 | 2" X 1-1/2" | 50 X 40 | 51 | 54 | 30 |
| BPFRE6515 | 2-1/2" X 1/2" | 65 X 15 | 40.5 | 56 | 46 |
| BPFRE6520 | 2-1/2" X 3/4" | 65 X 20 | 43.5 | 57 | 40 |
| BPFRE6525 | 2-1/2" X 1" | 65 X 25 | 47.5 | 59 | 34 |
| BPFRE6532 | 2-1/2" X 1-1/4" | 65 X 32 | 51.5 | 61 | 30 |
| BPFRE6540 | 2-1/2" X 1-1/2" | 65 X 40 | 54.5 | 61 | 26 |
| BPFRE6550 | 2-1/2" X 2" | 65 X 50 | 59.5 | 64 | 24 |
| BPFRE8015 | 3" X 1/2" | 80 X 15 | 42.5 | 64 | 36 |
| BPFRE8020 | 3" X 3/4" | 80 X 20 | 45.5 | 65 | 30 |
| BPFRE8025 | 3" X 1" | 80 X 25 | 49.5 | 67 | 20 |
| BPFRE8032 | 3" X 1-1/4" | 80 X 32 | 54.5 | 69 | 20 |
| BPFRE8040 | 3" X 1-1/2" | 80 X 40 | 57.5 | 71 | 20 |
| BPFRE8050 | 3" X 2" | 80 X 50 | 61.5 | 71 | 12 |
| BPFRE8065 | 3" X 2-1/2" | 80 X 65 | 71.5 | 74 | 12 |
| BPFRE10015 | 4" X 1/2" | 100 X 15 | 49.5 | 78 | 14 |
| BPFRE10020 | 4" X 3/4" | 100 X 20 | 53.5 | 79 | 14 |
| BPFRE10025 | 4" X 1" | 100 X 25 | 56.5 | 82 | 14 |
| BPFRE10032 | 4" X 1-1/4" | 100 X 32 | 60.5 | 85 | 14 |
| BPFRE10040 | 4" X 1-1/2" | 100 X 40 | 62.5 | 85 | 10 |
| BPFRE10050 | 4" X 2" | 100 X 50 | 68.5 | 86 | 10 |
| BPFRE10065 | 4" X 2-1/2" | 100 X 65 | 77.5 | 89 | 8 |
| BPFRE10080 | 4" X 3" | 100 X 80 | 82.5 | 90 | 8 |

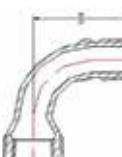


*Black (B) & Galvanised (G) finish is available on request.

45° ELBOW

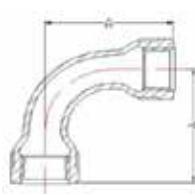
| | Part Code | BSPT | DN | A (mm) | Pcs/Ctn |
|---|-----------|--------|-----|--------|---------|
|  | BPFE4508 | 1/4" | 8 | 18 | 500 |
|  | BPFE4510 | 3/8" | 10 | 20 | 500 |
|  | BPFE4515 | 1/2" | 15 | 22 | 400 |
| | BPFE4520 | 3/4" | 20 | 25 | 240 |
| | BPFE4525 | 1" | 25 | 28 | 140 |
| | BPFE4532 | 1-1/4" | 32 | 33 | 96 |
| | BPFE4540 | 1-1/2" | 40 | 36 | 72 |
| | BPFE4550 | 2" | 50 | 43 | 36 |
| | BPFE4565 | 2-1/2" | 65 | 48.5 | 20 |
| | BPFE4580 | 3" | 80 | 53.5 | 12 |
| | BPFE45100 | 4" | 100 | 64.5 | 6 |

90° M&F LONG SWEEP BEND

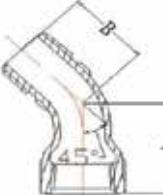
| | Part Code | BSPT | DN | A (mm) | B (mm) | Pcs/Ctn |
|---|--------------|--------|-----|--------|--------|---------|
|  | BPFSBMF9010 | 3/8" | 10 | 48 | 42 | 400 |
|  | BPFSBMF9015 | 1/2" | 15 | 55 | 48 | 280 |
|  | BPFSBMF9020 | 3/4" | 20 | 69 | 60 | 150 |
| | BPFSBMF9025 | 1" | 25 | 85 | 75 | 80 |
| | BPFSBMF9032 | 1-1/4" | 32 | 105 | 95 | 50 |
| | BPFSBMF9040 | 1-1/2" | 40 | 116 | 105 | 24 |
| | BPFSBMF9050 | 2" | 50 | 140 | 130 | 12 |
| | BPFSBMF9065 | 2-1/2" | 65 | 176 | 165 | 8 |
| | BPFSBMF9080 | 3" | 80 | 205 | 190 | 6 |
| | BPFSBMF90100 | 4" | 100 | 260 | 245 | 2 |

*Black (B) & Galvanised (G) finish is available on request.

90° FEMALE LONG SWEEP BEND

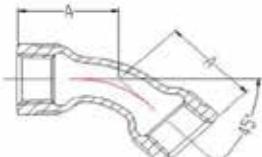
| | Part Code | BSPT | DN | A (mm) | Pcs/Ctn |
|---|-------------|--------|-----|--------|---------|
|  | BPFSBF9010 | 3/8" | 10 | 48 | 400 |
|  | BPFSBF9015 | 1/2" | 15 | 55 | 220 |
|  | BPFSBF9020 | 3/4" | 20 | 69 | 120 |
| | BPFSBF9025 | 1" | 25 | 85 | 70 |
| | BPFSBF9032 | 1-1/4" | 32 | 105 | 40 |
| | BPFSBF9040 | 1-1/2" | 40 | 116 | 20 |
| | BPFSBF9050 | 2" | 50 | 140 | 12 |
| | BPFSBF9065 | 2-1/2" | 65 | 176 | 8 |
| | BPFSBF9080 | 3" | 80 | 205 | 6 |
| | BPFSBF90100 | 4" | 100 | 260 | 2 |

45° M&F SHORT SWEEP BEND

| | Part Code | BSPT | DN | A (mm) | B (mm) | Pcs/Ctn |
|---|--------------|--------|-----|--------|--------|---------|
|  | BPFSBMF4515 | 1/2" | 15 | 36 | 30 | 180 |
|  | BPFSBMF4520 | 3/4" | 20 | 43 | 36 | 160 |
| | BPFSBMF4525 | 1" | 25 | 51 | 42 | 80 |
| | BPFSBMF4532 | 1-1/4" | 32 | 64 | 54 | 50 |
| | BPFSBMF4540 | 1-1/2" | 40 | 68 | 58 | 24 |
| | BPFSBMF4550 | 2" | 50 | 81 | 70 | 12 |
| | BPFSBMF4565 | 2-1/2" | 65 | 99 | 86 | 8 |
| | BPFSBMF4580 | 3" | 80 | 113 | 100 | 6 |
| | BPFSBMF45100 | 4" | 100 | 143 | 126 | 2 |

*Black (B) & Galvanised (G) finish is available on request.

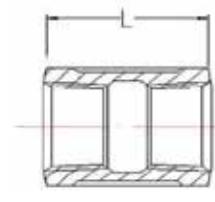
45° FEMALE SHORT SWEEP BEND

| Part Code | BSPT | DN | A (mm) | Pcs/Ctn |
|-------------|--------|-----|--------|---------|
| BPFSBF4515 | 1/2" | 15 | 36 | 180 |
| BPFSBF4520 | 3/4" | 20 | 43 | 160 |
| BPFSBF4525 | 1" | 25 | 51 | 80 |
| BPFSBF4532 | 1-1/4" | 32 | 64 | 50 |
| BPFSBF4540 | 1-1/2" | 40 | 68 | 24 |
| BPFSBF4550 | 2" | 50 | 81 | 12 |
| BPFSBF4565 | 2-1/2" | 65 | 99 | 8 |
| BPFSBF4580 | 3" | 80 | 113 | 6 |
| BPFSBF45100 | 4" | 100 | 142 | 2 |

PART THREADED SOCKET



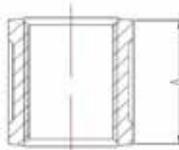


| Part Code | BSPT | DN | L (mm) | Pcs/Ctn |
|-----------|--------|-----|--------|---------|
| BPFPTS008 | 1/4" | 8 | 26 | 800 |
| BPFPTS010 | 3/8" | 10 | 29 | 700 |
| BPFPTS015 | 1/2" | 15 | 35 | 450 |
| BPFPTS020 | 3/4" | 20 | 38 | 300 |
| BPFPTS025 | 1" | 25 | 44 | 180 |
| BPFPTS032 | 1-1/4" | 32 | 49 | 120 |
| BPFPTS040 | 1-1/2" | 40 | 53 | 72 |
| BPFPTS050 | 2" | 50 | 63 | 48 |
| BPFPTS065 | 2-1/2" | 65 | 72 | 32 |
| BPFPTS080 | 3" | 80 | 77.5 | 24 |
| BPFPTS100 | 4" | 100 | 91.5 | 10 |
| BPFPTS150 | 6" | 150 | 118 | 4 |

*Black (B) & Galvanised (G) finish is available on request.

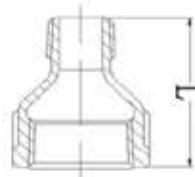
ENTIRE THREADED SOCKET

| Part Code | BSPT | DN | A (mm) | Pcs/Ctn |
|-----------|--------|-----|--------|---------|
| BPFETS008 | 1/4" | 8 | 26 | 800 |
| BPFETS010 | 3/8" | 10 | 29 | 700 |
| BPFETS015 | 1/2" | 15 | 35 | 450 |
| BPFETS020 | 3/4" | 20 | 38 | 300 |
| BPFETS025 | 1" | 25 | 44 | 180 |
| BPFETS032 | 1-1/4" | 32 | 49 | 120 |
| BPFETS040 | 1-1/2" | 40 | 53 | 72 |
| BPFETS050 | 2" | 50 | 63 | 48 |
| BPFETS065 | 2-1/2" | 65 | 72 | 32 |
| BPFETS080 | 3" | 80 | 77.5 | 24 |
| BPFETS100 | 4" | 100 | 91.5 | 10 |
| BPFETS150 | 6" | 150 | 118 | 4 |

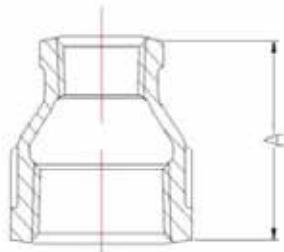


REDUCING SOCKET M&F

| Part Code | BSPT | DN | L (mm) | Pcs/Ctn |
|-------------|-----------------|---------|--------|---------|
| BPFRSMF2015 | 3/4" X 1/2" | 20 X 15 | 47 | 380 |
| BPFRSMF2515 | 1" X 1/2" | 25 X 15 | 54 | 180 |
| BPFRSMF2520 | 1" X 3/4" | 25 X 20 | 54 | 180 |
| BPFRSMF3220 | 1-1/4" X 3/4" | 32 X 20 | 59 | 120 |
| BPFRSMF3225 | 1-1/4" X 1" | 32 X 25 | 59 | 120 |
| BPFRSMF4020 | 1-1/2" X 3/4" | 40 X 20 | 62 | 80 |
| BPFRSMF4025 | 1-1/2" X 1" | 40 X 25 | 62 | 80 |
| BPFRSMF4032 | 1-1/2" X 1-1/4" | 40 X 32 | 62 | 80 |
| BPFRSMF5025 | 2" X 1" | 50 X 25 | 69 | 48 |
| BPFRSMF5032 | 2" X 1-1/4" | 50 X 32 | 69 | 48 |
| BPFRSMF5040 | 2" X 1-1/2" | 50 X 40 | 69 | 48 |



REDUCING SOCKET



| Part Code | BSPT | DN | A (mm) | Pcs/Ctn |
|------------|-----------------|----------|--------|---------|
| BPFRS1008 | 3/8" X 1/4" | 10 X 8 | 29 | 500 |
| BPFRS1508 | 1/2" X 1/4" | 15 X 8 | 35 | 500 |
| BPFRS1510 | 1/2" X 3/8" | 15 X 10 | 36 | 500 |
| BPFRS2008 | 3/4" X 1/4" | 20 X 8 | 38 | 360 |
| BPFRS2010 | 3/4" X 3/8" | 20 X 10 | 38 | 360 |
| BPFRS2015 | 3/4" X 1/2" | 20 X 15 | 38 | 360 |
| BPFRS2508 | 1" X 1/4" | 25 X 8 | 44 | 200 |
| BPFRS2510 | 1" X 3/8" | 25 X 10 | 44 | 200 |
| BPFRS2515 | 1" X 1/2" | 25 X 15 | 44 | 200 |
| BPFRS2520 | 1" X 3/4" | 25 X 20 | 44 | 200 |
| BPFRS3215 | 1-1/4" X 1/2" | 32 X 15 | 49 | 144 |
| BPFRS3220 | 1-1/4" X 3/4" | 32 X 20 | 49 | 144 |
| BPFRS3225 | 1-1/4" X 1" | 32 X 25 | 49 | 120 |
| BPFRS4015 | 1-1/2" X 1/2" | 40 X 15 | 53 | 140 |
| BPFRS4020 | 1-1/2" X 3/4" | 40 X 20 | 53 | 140 |
| BPFRS4025 | 1-1/2" X 1" | 40 X 25 | 53 | 120 |
| BPFRS4032 | 1-1/2" X 1-1/4" | 40 X 32 | 53 | 100 |
| BPFRS5015 | 2" X 1/2" | 50 X 15 | 63 | 80 |
| BPFRS5020 | 2" X 3/4" | 50 X 20 | 63 | 80 |
| BPFRS5025 | 2" X 1" | 50 X 25 | 63 | 72 |
| BPFRS5032 | 2" X 1-1/4" | 50 X 32 | 63 | 72 |
| BPFRS5040 | 2" X 1-1/2" | 50 X 40 | 63 | 48 |
| BPFRS6515 | 2-1/2" X 1/2" | 65 X 15 | 72 | 60 |
| BPFRS6520 | 2-1/2" X 3/4" | 65 X 20 | 72 | 60 |
| BPFRS6525 | 2-1/2" X 1" | 65 X 25 | 72 | 60 |
| BPFRS6532 | 2-1/2" X 1-1/4" | 65 X 32 | 72 | 60 |
| BPFRS6540 | 2-1/2" X 1-1/2" | 65 X 40 | 72 | 60 |
| BPFRS6550 | 2-1/2" X 2" | 65 X 50 | 72 | 40 |
| BPFRS8015 | 3" X 1/2" | 80 X 15 | 77.5 | 40 |
| BPFRS8020 | 3" X 3/4" | 80 X 20 | 77.5 | 40 |
| BPFRS8025 | 3" X 1" | 80 X 25 | 77.5 | 40 |
| BPFRS8032 | 3" X 1-1/4" | 80 X 32 | 77.5 | 40 |
| BPFRS8040 | 3" X 1-1/2" | 80 X 40 | 77.5 | 40 |
| BPFRS8050 | 3" X 2" | 80 X 50 | 77.5 | 36 |
| BPFRS8065 | 3" X 2-1/2" | 80 X 65 | 77.5 | 24 |
| BPFRS10015 | 4" X 1/2" | 100 X 15 | 91.5 | 20 |
| BPFRS10020 | 4" X 3/4" | 100 X 20 | 91.5 | 20 |
| BPFRS10025 | 4" X 1" | 100 X 25 | 91.5 | 20 |
| BPFRS10032 | 4" X 1-1/4" | 100 X 32 | 91.5 | 20 |
| BPFRS10040 | 4" X 1-1/2" | 100 X 40 | 91.5 | 20 |
| BPFRS10050 | 4" X 2" | 100 X 50 | 91.5 | 16 |
| BPFRS10065 | 4" X 2-1/2" | 100 X 65 | 91.5 | 14 |
| BPFRS10080 | 4" X 3" | 100 X 80 | 91.5 | 12 |

*Black (B) & Galvanised (G) finish is available on request.

SOCKET M&F



| | Part Code | BSPT | DN | A (mm) | Pcs/Ctn |
|--|-----------|--------|----|--------|---------|
| | BPFSMF015 | 1/2" | 15 | 44 | 600 |
| | BPFSMF020 | 3/4" | 20 | 45 | 380 |
| | BPFSMF025 | 1" | 25 | 52 | 180 |
| | BPFSMF032 | 1-1/4" | 32 | 57 | 120 |
| | BPFSMF040 | 1-1/2" | 40 | 60 | 80 |
| | BPFSMF050 | 2" | 50 | 66 | 48 |

HEXAGONAL NIPPLE



| | Part Code | BSPT | DN | L (mm) | S (mm) | Pcs/Ctn |
|--|-----------|--------|-----|--------|--------|---------|
| | BPFHN008 | 1/4" | 8 | 36 | 16.7 | 1000 |
| | BPFHN010 | 3/8" | 10 | 36 | 19.8 | 1000 |
| | BPFHN015 | 1/2" | 15 | 44 | 23.6 | 600 |
| | BPFHN020 | 3/4" | 20 | 47 | 29.2 | 300 |
| | BPFHN025 | 1" | 25 | 53 | 36 | 200 |
| | BPFHN032 | 1-1/4" | 32 | 56 | 45 | 140 |
| | BPFHN040 | 1-1/2" | 40 | 58 | 51 | 104 |
| | BPFHN050 | 2" | 50 | 68 | 63 | 56 |
| | BPFHN065 | 2-1/2" | 65 | 73 | 79.4 | 36 |
| | BPFHN080 | 3" | 80 | 81 | 91.6 | 24 |
| | BPFHN100 | 4" | 100 | 95 | 117 | 12 |

*Black (B) & Galvanised (G) finish is available on request.

REDUCING NIPPLE




Technical Drawing Labels:

- BPFRN: Part Number Prefix
- 1/2": Nominal Size
- X: Thread Type (BSPT)
- 1/4": Thread Size
- 15 X 8: Overall Length and Body Length
- 44: Total Length
- 22: Nipple Length
- 600: Pcs/Ctn

| Part Code | BSPT | DN | L (mm) | S (mm) | Pcs/Ctn |
|-----------|-----------------|---------|--------|--------|---------|
| BPFRN1508 | 1/2" X 1/4" | 15 X 8 | 44 | 22 | 600 |
| BPFRN1510 | 1/2" X 3/8" | 15 X 10 | 44 | 22 | 600 |
| BPFRN2015 | 3/4" X 1/2" | 20 X 15 | 47 | 29.9 | 400 |
| BPFRN2515 | 1" X 1/2" | 25 X 15 | 53 | 35.8 | 260 |
| BPFRN2520 | 1" X 3/4" | 25 X 20 | 53 | 35.8 | 240 |
| BPFRN3215 | 1-1/4" X 1/2" | 32 X 15 | 57 | 45.6 | 160 |
| BPFRN3220 | 1-1/4" X 3/4" | 32 X 20 | 57 | 45.6 | 140 |
| BPFRN3225 | 1-1/4" X 1" | 32 X 25 | 57 | 45.6 | 140 |
| BPFRN4015 | 1-1/2" X 1/2" | 40 X 15 | 59 | 50.5 | 130 |
| BPFRN4020 | 1-1/2" X 3/4" | 40 X 20 | 59 | 50.5 | 130 |
| BPFRN4025 | 1-1/2" X 1" | 40 X 25 | 59 | 50.5 | 120 |
| BPFRN4032 | 1-1/2" X 1-1/4" | 40 X 32 | 59 | 50.5 | 100 |
| BPFRN5015 | 2" X 1/2" | 50 X 15 | 68 | 63.5 | 75 |
| BPFRN5020 | 2" X 3/4" | 50 X 20 | 68 | 63.5 | 72 |
| BPFRN5025 | 2" X 1" | 50 X 25 | 68 | 63.5 | 72 |
| BPFRN5032 | 2" X 1-1/4" | 50 X 32 | 68 | 63.5 | 72 |
| BPFRN5040 | 2" X 1-1/2" | 50 X 40 | 68 | 63.5 | 60 |
| BPFRN8050 | 3" X 2" | 80 X 50 | 81 | 91.6 | 24 |

EQUAL TEE



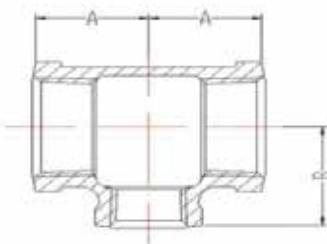

Technical Drawing Labels:

- BPFE: Part Number Prefix
- T: Nominal Size
- E: Thread Type (BSPT)
- 6, 8, 10, 15, 20, 25, 32, 40, 50, 65, 80, 100, 150: Thread Size
- 18, 20, 24, 27, 32, 37, 44.5, 48.5, 57, 68.5, 77.5, 96.5, 129: Overall Length
- 400, 300, 240, 140, 90, 56, 40, 20, 12, 10, 4, 2: Pcs/Ctn

| Part Code | BSPT | DN | A (mm) | Pcs/Ctn |
|-----------|--------|-----|--------|---------|
| BPFE006 | 1/8" | 6 | 18 | 400 |
| BPFE008 | 1/4" | 8 | 20 | 400 |
| BPFE010 | 3/8" | 10 | 24 | 300 |
| BPFE015 | 1/2" | 15 | 27 | 240 |
| BPFE020 | 3/4" | 20 | 32 | 140 |
| BPFE025 | 1" | 25 | 37 | 90 |
| BPFE032 | 1-1/4" | 32 | 44.5 | 56 |
| BPFE040 | 1-1/2" | 40 | 48.5 | 40 |
| BPFE050 | 2" | 50 | 57 | 20 |
| BPFE065 | 2-1/2" | 65 | 68.5 | 12 |
| BPFE080 | 3" | 80 | 77.5 | 10 |
| BPFE100 | 4" | 100 | 96.5 | 4 |
| BPFE150 | 6" | 150 | 129 | 2 |

*Black (B) & Galvanised (G) finish is available on request.

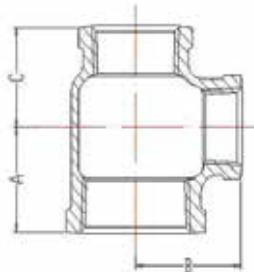
REDUCING TEE



| Part Code | BSPT | DN | A (mm) | B (mm) | Pcs/Ctn |
|------------|-----------------|----------|--------|--------|---------|
| BPFRT2015 | 3/4" X 1/2" | 20 X 15 | 29 | 30 | 150 |
| BPFRT2510 | 1" X 3/8" | 25 X 10 | 29 | 31 | 100 |
| BPFRT2515 | 1" X 1/2" | 25 X 15 | 31 | 33 | 100 |
| BPFRT2520 | 1" X 3/4" | 25 X 20 | 34 | 35 | 100 |
| BPFRT3210 | 1-1/4" X 3/8" | 32 X 10 | 31 | 36 | 64 |
| BPFRT3215 | 1-1/4" X 1/2" | 32 X 15 | 34 | 37 | 64 |
| BPFRT3220 | 1-1/4" X 3/4" | 32 X 20 | 36 | 40 | 64 |
| BPFRT3225 | 1-1/4" X 1" | 32 X 25 | 40 | 41 | 64 |
| BPFRT4015 | 1-1/2" X 1/2" | 40 X 15 | 35 | 41 | 52 |
| BPFRT4020 | 1-1/2" X 3/4" | 40 X 20 | 37 | 43 | 52 |
| BPFRT4025 | 1-1/2" X 1" | 40 X 25 | 41 | 45 | 42 |
| BPFRT4032 | 1-1/2" X 1-1/4" | 40 X 32 | 45 | 47 | 42 |
| BPFRT5015 | 2" X 1/2" | 50 X 15 | 37 | 47 | 40 |
| BPFRT5020 | 2" X 3/4" | 50 X 20 | 40 | 49 | 40 |
| BPFRT5025 | 2" X 1" | 50 X 25 | 43 | 51 | 30 |
| BPFRT5032 | 2" X 1-1/4" | 50 X 32 | 47 | 53 | 30 |
| BPFRT5040 | 2" X 1-1/2" | 50 X 40 | 51 | 54 | 24 |
| BPFRT6515 | 2-1/2" X 1/2" | 65 X 15 | 40.5 | 56 | 24 |
| BPFRT6520 | 2-1/2" X 3/4" | 65 X 20 | 43.5 | 57 | 24 |
| BPFRT6525 | 2-1/2" X 1" | 65 X 25 | 47.5 | 59 | 20 |
| BPFRT6532 | 2-1/2" X 1-1/4" | 65 X 32 | 51.5 | 61 | 16 |
| BPFRT6540 | 2-1/2" X 1-1/2" | 65 X 40 | 54.5 | 61 | 16 |
| BPFRT6550 | 2-1/2" X 2" | 65 X 50 | 59.5 | 64 | 16 |
| BPFRT8015 | 3" X 1/2" | 80 X 15 | 42.5 | 64 | 12 |
| BPFRT8020 | 3" X 3/4" | 80 X 20 | 45.5 | 65 | 12 |
| BPFRT8025 | 3" X 1" | 80 X 25 | 49.5 | 67 | 12 |
| BPFRT8032 | 3" X 1-1/4" | 80 X 32 | 54.5 | 69 | 12 |
| BPFRT8040 | 3" X 1-1/2" | 80 X 40 | 57.5 | 71 | 12 |
| BPFRT8050 | 3" X 2" | 80 X 50 | 61.5 | 71 | 10 |
| BPFRT8065 | 3" X 2-1/2" | 80 X 65 | 71.5 | 74 | 10 |
| BPFRT10015 | 4" X 1/2" | 100 X 15 | 49.5 | 78 | 8 |
| BPFRT10020 | 4" X 3/4" | 100 X 20 | 53.5 | 79 | 8 |
| BPFRT10025 | 4" X 1" | 100 X 25 | 56.5 | 82 | 8 |
| BPFRT10032 | 4" X 1-1/4" | 100 X 32 | 60.5 | 85 | 6 |
| BPFRT10040 | 4" X 1-1/2" | 100 X 40 | 62.5 | 85 | 6 |
| BPFRT10050 | 4" X 2" | 100 X 50 | 68.5 | 86 | 6 |
| BPFRT10065 | 4" X 2-1/2" | 100 X 65 | 77.5 | 89 | 6 |
| BPFRT10080 | 4" X 3" | 100 X 80 | 82.5 | 90 | 6 |

*Black (B) & Galvanised (G) finish is available on request.

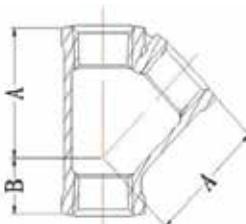
REDUCING TEE



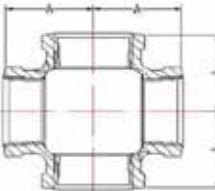
| Part Code | BSPT | DN | A (mm) | B (mm) | C (mm) | Pcs/Ctn |
|-------------|--------------------------|--------------|--------|--------|--------|---------|
| BPFRT201515 | 3/4" X 1/2" X 1/2" | 20 X 15 X 15 | 29 | 30 | 27 | 120 |
| BPFRT251520 | 1" X 1/2" X 3/4" | 25 X 15 X 20 | 31 | 33 | 29 | 120 |
| BPFRT252020 | 1" X 3/4" X 3/4" | 25 X 20 X 20 | 34 | 35 | 32 | 120 |
| BPFRT321525 | 1-1/4" X 1/2" X 1" | 32 X 15 X 25 | 33 | 37 | 31 | 80 |
| BPFRT322025 | 1-1/4" X 3/4" X 1" | 32 X 20 X 25 | 36 | 40 | 34 | 60 |
| BPFRT322525 | 1-1/4" X 1" X 1" | 32 X 25 X 25 | 39 | 40 | 36 | 60 |
| BPFRT323225 | 1-1/4" X 1-1/4" X 1" | 32 X 32 X 25 | 44.5 | 44.5 | 41 | 40 |
| BPFRT401532 | 1-1/2" X 1/2" X 1-1/4" | 40 X 15 X 32 | 35 | 41 | 33 | 32 |
| BPFRT402032 | 1-1/2" X 3/4" X 1-1/4" | 40 X 20 X 32 | 37 | 43 | 36 | 36 |
| BPFRT402525 | 1-1/2" X 1" X 1" | 40 X 25 X 25 | 40 | 44 | 36 | 28 |
| BPFRT402532 | 1-1/2" X 1" X 1-1/4" | 40 X 25 X 32 | 41 | 45 | 40 | 20 |
| BPFRT403225 | 1-1/2" X 1-1/4" X 1" | 40 X 32 X 25 | 45 | 47 | 41 | 16 |
| BPFRT403232 | 1-1/2" X 1-1/4" X 1-1/4" | 40 X 32 X 32 | 45 | 47 | 44.5 | 12 |
| BPFRT404025 | 1-1/2" X 1-1/2" X 1" | 40 X 40 X 25 | 48.5 | 48.5 | 45 | 16 |
| BPFRT405032 | 1-1/2" X 2" X 1-1/4" | 40 X 50 X 32 | 54 | 51 | 53 | 10 |
| BPFRT501540 | 2" X 1/2" X 1-1/2" | 50 X 15 X 40 | 37 | 47 | 35 | 10 |
| BPFRT502040 | 2" X 3/4" X 1-1/2" | 50 X 20 X 40 | 40 | 49 | 37 | 6 |
| BPFRT502532 | 2" X 1" X 1-1/4" | 50 X 25 X 32 | 43 | 51 | 40 | 64 |
| BPFRT502540 | 2" X 1" X 1-1/2" | 50 X 25 X 40 | 42 | 49 | 40 | 68 |
| BPFRT503232 | 2" X 1-1/4" X 1-1/4" | 50 X 32 X 32 | 47 | 53 | 44.5 | 60 |
| BPFRT503240 | 2" X 1-1/4" X 1-1/2" | 50 X 32 X 40 | 47 | 53 | 45 | 40 |
| BPFRT504025 | 2" X 1-1/2" X 1" | 50 X 40 X 25 | 51 | 54 | 45 | 42 |
| BPFRT504040 | 2" X 1-1/2" X 1-1/2" | 50 X 40 X 40 | 51 | 54 | 48.5 | 40 |
| BPFRT505025 | 2" X 2" X 1" | 50 X 50 X 25 | 57 | 57 | 51 | 40 |
| BPFRT651550 | 2-1/2" X 1/2" X 2" | 65 X 15 X 50 | 40.5 | 56 | 37 | 36 |
| BPFRT652050 | 2-1/2" X 3/4" X 2" | 65 X 20 X 50 | 43.5 | 57 | 40 | 30 |
| BPFRT652550 | 2-1/2" X 1" X 2" | 65 X 25 X 50 | 45 | 58 | 42 | 24 |
| BPFRT653240 | 2-1/2" X 1-1/4" X 1-1/2" | 65 X 32 X 40 | 51.5 | 61 | 45 | 30 |
| BPFRT653250 | 2-1/2" X 1-1/4" X 2" | 65 X 32 X 50 | 51.5 | 61 | 47 | 30 |
| BPFRT654050 | 2-1/2" X 1-1/2" X 2" | 65 X 40 X 50 | 54.5 | 62 | 51 | 36 |
| BPFRT655050 | 2-1/2" X 2" X 2" | 60 X 50 X 50 | 59.5 | 64 | 57 | 36 |
| BPFRT802565 | 3" X 1" X 2-1/2" | 80 X 25 X 65 | 49.5 | 67 | 47.5 | 36 |
| BPFRT803265 | 3" X 1-1/4" X 2-1/2" | 80 X 32 X 65 | 54.5 | 69 | 51.5 | 24 |
| BPFRT804065 | 3" X 1-1/2" X 2-1/2" | 80 X 40 X 65 | 57.5 | 71 | 54.5 | 24 |
| BPFRT805065 | 3" X 2" X 2-1/2" | 80 X 50 X 65 | 61.5 | 71 | 59.5 | 16 |
| BPFRT806565 | 3" X 2-1/2" X 2-1/2" | 80 X 65 X 65 | 71.5 | 74 | 68.5 | 16 |

*Black (B) & Galvanised (G) finish is available on request.

45° LATERAL Y BRANCH TEE

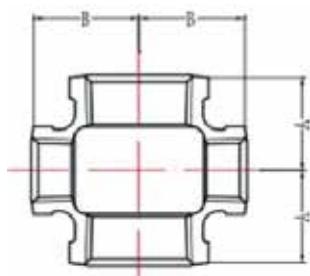
| | Part Code | BSPT | DN | A (mm) | B (mm) | Pcs/Ctn |
|---|-------------|--------|-----|--------|--------|---------|
|  | BPFYBT4515 | 1/2" | 15 | 42 | 18 | 240 |
|  | BPFYBT4520 | 3/4" | 20 | 51.5 | 18.5 | 100 |
| | BPFYBT4525 | 1" | 25 | 62 | 23 | 80 |
| | BPFYBT4532 | 1-1/4" | 32 | 75 | 28 | 40 |
| | BPFYBT4540 | 1-1/2" | 40 | 82 | 30 | 30 |
| | BPFYBT4550 | 2" | 50 | 100.5 | 32.5 | 16 |
| | BPFYBT4565 | 2-1/2" | 65 | 125 | 39 | 10 |
| | BPFYBT4580 | 3" | 80 | 140 | 45 | 8 |
| | BPFYBT45100 | 4" | 100 | 180 | 55 | 2 |

CROSS FEMALE

| | Part Code | BSPT | DN | A (mm) | Pcs/Ctn |
|---|-----------|--------|-----|--------|---------|
|  | BPFCF015 | 1/2" | 15 | 27 | 180 |
|  | BPFCF020 | 3/4" | 20 | 32 | 96 |
|  | BPFCF025 | 1" | 25 | 37 | 72 |
| | BPFCF032 | 1-1/4" | 32 | 44.5 | 36 |
| | BPFCF040 | 1-1/2" | 40 | 48.5 | 30 |
| | BPFCF050 | 2" | 50 | 57 | 12 |
| | BPFCF065 | 2-1/2" | 65 | 68.5 | 10 |
| | BPFCF080 | 3" | 80 | 77.5 | 6 |
| | BPFCF100 | 4" | 100 | 96.5 | 2 |

*Black (B) & Galvanised (G) finish is available on request.

REDUCING CROSS



| Part Code | BSPT | DN | A (mm) | B (mm) | Pcs/Ctn |
|------------|-----------------|----------|--------|--------|---------|
| BPFRC2015 | 3/4" X 1/2" | 20 X 15 | 29 | 30 | 120 |
| BPFRC2515 | 1" X 1/2" | 25 X 15 | 31 | 33 | 96 |
| BPFRC2520 | 1" X 3/4" | 25 X 20 | 34 | 35 | 80 |
| BPFRC3215 | 1-1/4" X 1/2" | 32 X 15 | 34 | 37 | 64 |
| BPFRC3220 | 1-1/4" X 3/4" | 32 X 20 | 36 | 40 | 60 |
| BPFRC3225 | 1-1/4" X 1" | 32 X 25 | 40 | 41 | 56 |
| BPFRC4015 | 1-1/2" X 1/2" | 40 X 15 | 35 | 41 | 52 |
| BPFRC4025 | 1-1/2" X 3/4" | 40 X 20 | 37 | 43 | 52 |
| BPFRC4025 | 1-1/2" X 1" | 40 X 25 | 41 | 45 | 42 |
| BPFRC4032 | 1-1/2" X 1-1/4" | 40 X 32 | 45 | 47 | 34 |
| BPFRC5015 | 2" X 1/2" | 50 X 15 | 37 | 47 | 36 |
| BPFRC5020 | 2" X 3/4" | 50 X 20 | 40 | 49 | 36 |
| BPFRC5025 | 2" X 1" | 50 X 25 | 43 | 51 | 28 |
| BPFRC5032 | 2" X 1-1/4" | 50 X 32 | 47 | 53 | 28 |
| BPFRC5040 | 2" X 1-1/2" | 50 X 40 | 51 | 54 | 20 |
| BPFRC6515 | 2-1/2" X 1/2" | 65 X 15 | 40.5 | 56 | 20 |
| BPFRC6520 | 2-1/2" X 3/4" | 65 X 20 | 43.5 | 57 | 20 |
| BPFRC6525 | 2-1/2" X 1" | 65 X 25 | 47.5 | 59 | 18 |
| BPFRC6532 | 2-1/2" X 1-1/4" | 65 X 32 | 51.5 | 61 | 16 |
| BPFRC6540 | 2-1/2" X 1-1/2" | 65 X 40 | 54.5 | 61 | 14 |
| BPFRC6550 | 2-1/2" X 2" | 65 X 50 | 59.5 | 64 | 10 |
| BPFRC8015 | 3" X 1/2" | 80 X 15 | 42.5 | 64 | 12 |
| BPFRC8020 | 3" X 3/4" | 80 X 20 | 45.5 | 65 | 12 |
| BPFRC8025 | 3" X 1" | 80 X 25 | 49.5 | 67 | 12 |
| BPFRC8032 | 3" X 1-1/4" | 80 X 32 | 54.5 | 69 | 12 |
| BPFRC8040 | 3" X 1-1/2" | 80 X 40 | 57.5 | 71 | 10 |
| BPFRC8050 | 3" X 2" | 80 X 50 | 61.5 | 71 | 10 |
| BPFRC8065 | 3" X 2-1/2" | 80 X 65 | 71.5 | 74 | 8 |
| BPFRC10015 | 4" X 1/2" | 100 X 15 | 49.5 | 78 | 6 |
| BPFRC10020 | 4" X 3/4" | 100 X 20 | 53.5 | 79 | 6 |
| BPFRC10025 | 4" X 1" | 100 X 25 | 56.5 | 82 | 6 |
| BPFRC10032 | 4" X 1-1/4" | 100 X 32 | 60.5 | 85 | 6 |
| BPFRC10040 | 4" X 1-1/2" | 100 X 40 | 62.5 | 85 | 4 |
| BPFRC10050 | 4" X 2" | 100 X 50 | 68.5 | 86 | 4 |
| BPFRC10065 | 4" X 2-1/2" | 100 X 65 | 77.5 | 89 | 4 |
| BPFRC10080 | 4" X 3" | 100 X 80 | 82.5 | 90 | 4 |

*Black (B) & Galvanised (G) finish is available on request.

FLAT SEAT UNION

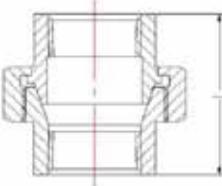
| Part Code | BSPT | DN | L (mm) | Pcs/Ctn |
|-----------|--------|-----|--------|---------|
| BPFFSU010 | 3/8" | 10 | 39 | 280 |
| BPFFSU015 | 1/2" | 15 | 46 | 180 |
| BPFFSU020 | 3/4" | 20 | 50 | 120 |
| BPFFSU025 | 1" | 25 | 56 | 88 |
| BPFFSU032 | 1-1/4" | 32 | 63 | 56 |
| BPFFSU040 | 1-1/2" | 40 | 68 | 36 |
| BPFFSU050 | 2" | 50 | 76 | 28 |
| BPFFSU065 | 2-1/2" | 65 | 83 | 12 |
| BPFFSU080 | 3" | 80 | 93 | 10 |
| BPFFSU100 | 4" | 100 | 113.5 | 6 |

FLAT SEAT UNION M&F

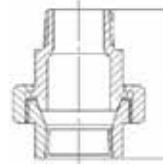
| Part Code | BSPT | DN | L (mm) | Pcs/Ctn |
|-------------|--------|----|--------|---------|
| BPFFSUMF015 | 1/2" | 15 | 64 | 140 |
| BPFFSUMF020 | 3/4" | 20 | 70 | 120 |
| BPFFSUMF025 | 1" | 25 | 78 | 80 |
| BPFFSUMF032 | 1-1/4" | 32 | 88 | 40 |
| BPFFSUMF040 | 1-1/2" | 40 | 93 | 32 |
| BPFFSUMF050 | 2" | 50 | 104 | 20 |

*Black (B) & Galvanised (G) finish is available on request.

CONICAL SEAT UNION

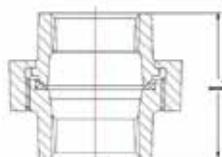
| | Part Code | BSPT | DN | L (mm) | Pcs/Ctn |
|---|-----------|--------|-----|--------|---------|
|  | BPFCSU008 | 1/4" | 8 | 42 | 200 |
|  | BPFCSU010 | 3/8" | 10 | 45 | 200 |
|  | BPFCSU015 | 1/2" | 15 | 47 | 180 |
| | BPFCSU020 | 3/4" | 20 | 51.5 | 120 |
| | BPFCSU025 | 1" | 25 | 57 | 88 |
| | BPFCSU032 | 1-1/4" | 32 | 65 | 56 |
| | BPFCSU040 | 1-1/2" | 40 | 71 | 36 |
| | BPFCSU050 | 2" | 50 | 79 | 28 |
| | BPFCSU065 | 2-1/2" | 65 | 85.5 | 12 |
| | BPFCSU080 | 3" | 80 | 94.5 | 10 |
| | BPFCSU100 | 4" | 100 | 110.5 | 6 |

CONICAL SEAT UNION M&F

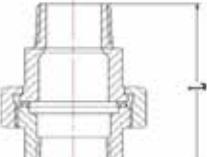
| | Part Code | BSPT | DN | L (mm) | Pcs/Ctn |
|---|-------------|--------|----|--------|---------|
|  | BPFCSUMF015 | 1/2" | 15 | 65 | 140 |
|  | BPFCSUMF020 | 3/4" | 20 | 71.5 | 120 |
|  | BPFCSUMF025 | 1" | 25 | 79 | 80 |
| | BPFCSUMF032 | 1-1/4" | 32 | 90 | 40 |
| | BPFCSUMF040 | 1-1/2" | 40 | 96 | 32 |
| | BPFCSUMF050 | 2" | 50 | 107 | 20 |

*Black (B) & Galvanised (G) finish is available on request.

CONICAL SEAT UNION-BRASS RING

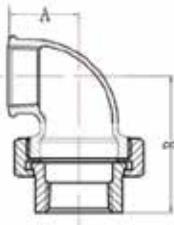
| | Part Code | BSPT | DN | L (mm) | Pcs/Ctn |
|---|------------|--------|-----|--------|---------|
|  | BPFCSBU008 | 1/4" | 8 | 42 | 200 |
|  | BPFCSBU010 | 3/8" | 10 | 45 | 200 |
|  | BPFCSBU015 | 1/2" | 15 | 47 | 180 |
| | BPFCSBU020 | 3/4" | 20 | 51 | 120 |
| | BPFCSBU025 | 1" | 25 | 56.5 | 88 |
| | BPFCSBU032 | 1-1/4" | 32 | 64 | 56 |
| | BPFCSBU040 | 1-1/2" | 40 | 70 | 36 |
| | BPFCSBU050 | 2" | 50 | 78.5 | 28 |
| | BPFCSBU065 | 2-1/2" | 65 | 84.5 | 12 |
| | BPFCSBU080 | 3" | 80 | 94 | 10 |
| | BPFCSBU100 | 4" | 100 | 110 | 6 |

FLAT SEAT UNION M&F-BRASS RING

| | Part Code | BSPT | DN | L (mm) | Pcs/Ctn |
|---|-------------|--------|----|--------|---------|
|  | BPFTSBUMF15 | 1/2" | 15 | 65 | 140 |
|  | BPFTSBUMF20 | 3/4" | 20 | 71 | 120 |
|  | BPFTSBUMF25 | 1" | 25 | 78.5 | 80 |
| | BPFTSBUMF32 | 1-1/4" | 32 | 89 | 40 |
| | BPFTSBUMF40 | 1-1/2" | 40 | 95 | 32 |
| | BPFTSBUMF50 | 2" | 50 | 106.5 | 20 |

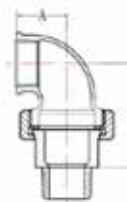
*Black (B) & Galvanised (G) finish is available on request.

ELBOW FLAT SEAT UNION

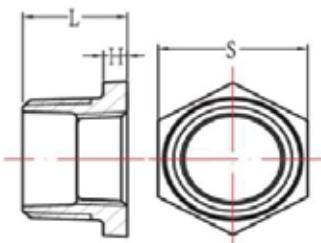
| Part Code | BSPT | DN | A (mm) | B (mm) | Pcs/Ctn |
|------------|--------|----|--------|--------|---------|
| BPFEFSU015 | 1/2" | 15 | 24.5 | 54 | 60 |
| BPFEFSU020 | 3/4" | 20 | 29 | 60 | 40 |
| BPFEFSU025 | 1" | 25 | 35 | 68 | 30 |
| BPFEFSU032 | 1-1/4" | 32 | 42 | 80 | 20 |
| BPFEFSU040 | 1-1/2" | 40 | 45.5 | 86 | 18 |
| BPFEFSU050 | 2" | 50 | 53.5 | 97 | 10 |

ELBOW CONICAL SEAT UNION M&F

| Part Code | BSPT | DN | A (mm) | B (mm) | Pcs/Ctn |
|-------------|--------|----|--------|--------|---------|
| BPFEFSUMF15 | 1/2" | 15 | 24.5 | 72 | 60 |
| BPFEFSUMF20 | 3/4" | 20 | 29 | 80 | 40 |
| BPFEFSUMF25 | 1" | 25 | 35 | 90 | 30 |
| BPFEFSUMF32 | 1-1/4" | 32 | 42 | 105 | 20 |
| BPFEFSUMF40 | 1-1/2" | 40 | 45.5 | 111 | 16 |
| BPFEFSUMF50 | 2" | 50 | 53.5 | 125 | 10 |

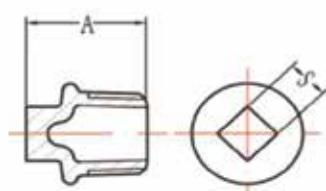
BUSHING



| Part Code | BSPT | DN | L (mm) | S (mm) | H (mm) | Pcs/Ctn |
|------------|-----------------|----------|--------|--------|--------|---------|
| BPFBH0806 | 1/4" X 1/8" | 8 X 6 | 18.5 | 16.8 | 6 | 1800 |
| BPFBH1006 | 3/8" X 1/8" | 10 X 6 | 18 | 20 | 6 | 1500 |
| BPFBH1008 | 3/8" X 1/4" | 10 X 8 | 18.5 | 18.4 | 6 | 1800 |
| BPFBH1508 | 1/2" X 1/4" | 15 X 8 | 22.5 | 22 | 6 | 500 |
| BPFBH1510 | 1/2" X 3/8" | 15 X 10 | 22.5 | 22 | 6 | 600 |
| BPFBH2008 | 3/4" X 1/4" | 20 X 8 | 24.5 | 29.6 | 6 | 960 |
| BPFBH2010 | 3/4" X 3/8" | 20 X 10 | 24.5 | 29.6 | 6 | 900 |
| BPFBH2015 | 3/4" X 1/2" | 20 X 15 | 24.5 | 29.6 | 6 | 600 |
| BPFBH2508 | 1" X 1/4" | 25 X 8 | 28 | 37.4 | 6.5 | 300 |
| BPFBH2510 | 1" X 3/8" | 25 X 10 | 28 | 37.4 | 6.5 | 300 |
| BPFBH2515 | 1" X 1/2" | 25 X 15 | 28 | 37.4 | 6.5 | 300 |
| BPFBH2520 | 1" X 3/4" | 25 X 20 | 28 | 37.4 | 6.5 | 300 |
| BPFBH3215 | 1-1/4" X 1/2" | 32 X 15 | 30 | 45.6 | 7 | 200 |
| BPFBH3220 | 1-1/4" X 3/4" | 32 X 20 | 30 | 45.6 | 7 | 200 |
| BPFBH3225 | 1-1/4" X 1" | 32 X 25 | 30 | 45.6 | 7 | 200 |
| BPFBH4015 | 1-1/2" X 1/2" | 40 X 15 | 30 | 50 | 7.5 | 160 |
| BPFBH4020 | 1-1/2" X 3/4" | 40 X 20 | 30 | 50 | 7.5 | 160 |
| BPFBH4025 | 1-1/2" X 1" | 40 X 25 | 30 | 50 | 7.5 | 160 |
| BPFBH4032 | 1-1/2" X 1-1/4" | 40 X 32 | 30 | 50 | 7.5 | 160 |
| BPFBH5015 | 2" X 1/2" | 50 X 15 | 33 | 64.1 | 8.5 | 96 |
| BPFBH5020 | 2" X 3/4" | 50 X 20 | 33 | 64.1 | 8.5 | 96 |
| BPFBH5025 | 2" X 1" | 50 X 25 | 33 | 64.1 | 8.5 | 96 |
| BPFBH5032 | 2" X 1-1/4" | 50 X 32 | 33 | 64.1 | 8.5 | 96 |
| BPFBH5040 | 2" X 1-1/2" | 50 X 40 | 33 | 64.1 | 8.5 | 96 |
| BPFBH6515 | 2-1/2" X 1/2" | 65 X 15 | 39 | 79.6 | 9 | 68 |
| BPFBH6520 | 2-1/2" X 3/4" | 65 X 20 | 39 | 79.6 | 9 | 68 |
| BPFBH6525 | 2-1/2" X 1" | 65 X 25 | 39 | 79.6 | 9 | 68 |
| BPFBH6532 | 2-1/2" X 1-1/4" | 65 X 32 | 39 | 79.6 | 9 | 68 |
| BPFBH6540 | 2-1/2" X 1-1/2" | 65 X 40 | 39 | 79.6 | 9 | 68 |
| BPFBH6550 | 2-1/2" X 2" | 65 X 50 | 39 | 79.6 | 9 | 68 |
| BPFBH8015 | 3" X 1/2" | 80 X 15 | 42 | 93 | 10 | 36 |
| BPFBH8020 | 3" X 3/4" | 80 X 20 | 42 | 93 | 10 | 36 |
| BPFBH8025 | 3" X 1" | 80 X 25 | 42 | 93 | 10 | 36 |
| BPFBH8032 | 3" X 1-1/4" | 80 X 32 | 42 | 93 | 10 | 36 |
| BPFBH8040 | 3" X 1-1/2" | 80 X 40 | 42 | 93 | 10 | 36 |
| BPFBH8050 | 3" X 2" | 80 X 50 | 42 | 93 | 10 | 36 |
| BPFBH8065 | 3" X 2-1/2" | 80 X 65 | 42 | 93 | 10 | 36 |
| BPFBH10015 | 4" X 1/2" | 100 X 15 | 49 | 118.4 | 11 | 18 |
| BPFBH10020 | 4" X 3/4" | 100 X 20 | 49 | 118.4 | 11 | 18 |
| BPFBH10025 | 4" X 1" | 100 X 25 | 49 | 118.4 | 11 | 18 |
| BPFBH10032 | 4" X 1-1/4" | 100 X 32 | 49 | 118.4 | 11 | 18 |
| BPFBH10040 | 4" X 1-1/2" | 100 X 40 | 49 | 118.4 | 11 | 18 |
| BPFBH10050 | 4" X 2" | 100 X 50 | 49 | 118.4 | 11 | 18 |
| BPFBH10065 | 4" X 2-1/2" | 100 X 65 | 49 | 118.4 | 11 | 18 |
| BPFBH10080 | 4" X 3" | 100 X 80 | 49 | 118.4 | 11 | 18 |

*Black (B) & Galvanised (G) finish is available on request.

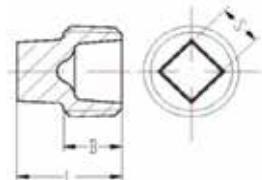
BEADED PLUG

| Part Code | BSPT | DN | A (mm) | S (mm) | Pcs/Ctn |
|-----------|--------|-----|--------|--------|---------|
| BPFBP008 | 1/4" | 8 | 22.5 | 6 | 2000 |
| BPFBP010 | 3/8" | 10 | 25 | 7 | 1300 |
| BPFBP015 | 1/2" | 15 | 28 | 10 | 900 |
| BPFBP020 | 3/4" | 20 | 32 | 12 | 600 |
| BPFBP025 | 1" | 25 | 36 | 16 | 300 |
| BPFBP032 | 1-1/4" | 32 | 38.5 | 20 | 220 |
| BPFBP040 | 1-1/2" | 40 | 41 | 22 | 150 |
| BPFBP050 | 2" | 50 | 47 | 28 | 80 |
| BPFBP065 | 2-1/2" | 65 | 53 | 30 | 64 |
| BPFBP080 | 3" | 80 | 58 | 34 | 36 |
| BPFBP100 | 4" | 100 | 72 | 44 | 28 |

PLAIN PLUG

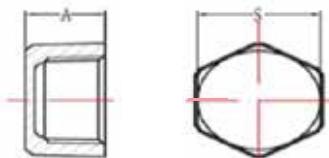
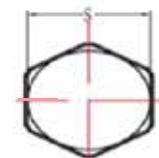




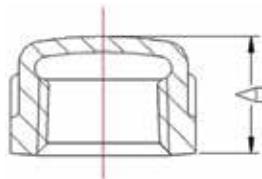
| Part Code | BSPT | DN | L (mm) | B (mm) | B (mm) | Pcs/Ctn |
|-----------|--------|-----|--------|--------|--------|---------|
| BPFPP008 | 1/4" | 8 | 15.5 | 10 | 6 | 2400 |
| BPFPP010 | 3/8" | 10 | 17 | 10 | 7 | 2200 |
| BPFPP015 | 1/2" | 15 | 22.5 | 13 | 10 | 1400 |
| BPFPP020 | 3/4" | 20 | 24 | 14 | 12 | 800 |
| BPFPP025 | 1" | 25 | 27 | 16.5 | 15 | 500 |
| BPFPP032 | 1-1/4" | 32 | 30 | 20 | 18 | 300 |
| BPFPP040 | 1-1/2" | 40 | 31 | 21 | 22 | 200 |
| BPFPP050 | 2" | 50 | 36 | 25 | 26 | 120 |
| BPFPP065 | 2-1/2" | 65 | 40.5 | 27 | 30 | 72 |
| BPFPP080 | 3" | 80 | 45.5 | 29.5 | 34 | 64 |
| BPFPP100 | 4" | 100 | 58.5 | 38 | 44 | 36 |

*Black (B) & Galvanised (G) finish is available on request.

CAP

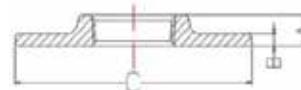
| | Part Code | BSPT | DN | A (mm) | S (mm) | Pcs/Ctn |
|---|-----------|--------|----|--------|--------|---------|
|  | BPFC010 | 3/8" | 10 | 17 | 20.6 | 1200 |
|  | BPFC015 | 1/2" | 15 | 19 | 24.6 | 700 |
|  | BPFC020 | 3/4" | 20 | 22 | 30.4 | 500 |
|  | BPFC025 | 1" | 25 | 24 | 37.2 | 360 |
| | BPFC032 | 1-1/4" | 32 | 27 | 47 | 220 |
| | BPFC040 | 1-1/2" | 40 | 28 | 53 | 160 |
| | BPFC050 | 2" | 50 | 32 | 65 | 100 |

ROUND CAP

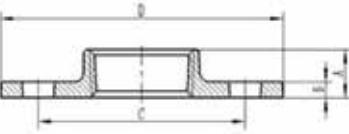
| | Part Code | BSPT | DN | A (mm) | Pcs/Ctn |
|---|-----------|--------|-----|--------|---------|
|  | BPFR0C008 | 1/4" | 8 | 16 | 1200 |
|  | BPFR0C010 | 3/8" | 10 | 17 | 1200 |
|  | BPFR0C015 | 1/2" | 15 | 19 | 700 |
| | BPFR0C020 | 3/4" | 20 | 22 | 500 |
| | BPFR0C025 | 1" | 25 | 24 | 360 |
| | BPFR0C032 | 1-1/4" | 32 | 27 | 220 |
| | BPFR0C040 | 1-1/2" | 40 | 27.5 | 160 |
| | BPFR0C050 | 2" | 50 | 32 | 100 |
| | BPFR0C065 | 2-1/2" | 65 | 36 | 60 |
| | BPFR0C080 | 3" | 80 | 39 | 38 |
| | BPFR0C100 | 4" | 100 | 46 | 20 |

*Black (B) & Galvanised (G) finish is available on request.

ROUND FLANGE WITHOUT BOLT HOLES

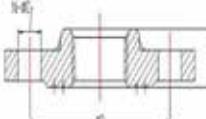
| | Part Code | BSPT | DN | A (mm) | B (mm) | C (mm) | Pcs/Ctn |
|---|------------|--------|-----|--------|--------|--------|---------|
|  | BPFRFWH15 | 1/2" | 15 | 13.5 | 4.5 | 78 | 120 |
|  | BPFRFWH20 | 3/4" | 20 | 16 | 5 | 87 | 100 |
|  | BPFRFWH25 | 1" | 25 | 18 | 5.5 | 97 | 60 |
| | BPFRFWH32 | 1-1/4" | 32 | 15 | 6 | 120 | 40 |
| | BPFRFWH40 | 1-1/2" | 40 | 16 | 7 | 130 | 40 |
| | BPFRFWH50 | 2" | 50 | 18 | 8 | 140 | 30 |
| | BPFRFWH65 | 2-1/2" | 65 | 20 | 9 | 160 | 16 |
| | BPFRFWH80 | 3" | 80 | 22 | 10 | 190 | 12 |
| | BPFRFWH100 | 4" | 100 | 24 | 11 | 210 | 10 |

ROUND FLANGE WITH 4 BOLT HOLES

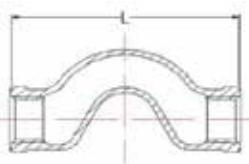
| | Part Code | BSPT | DN | A (mm) | B (mm) | C (mm) | D (mm) | Bolt Hole Ø mm | Pcs/Ctn |
|---|-----------|--------|----|--------|--------|--------|--------|----------------|---------|
|  | BPFRF4H15 | 1/2" | 15 | 15 | 5 | 67 | 94.5 | 14 | 20 |
|  | BPFRF4H20 | 3/4" | 20 | 16 | 5 | 73 | 99.5 | 14 | 20 |
|  | BPFRF4H25 | 1" | 25 | 19 | 6 | 83 | 114.3 | 14 | 16 |
| | BPFRF4H32 | 1-1/4" | 32 | 21 | 6 | 87 | 119.2 | 14 | 12 |
| | BPFRF4H40 | 1-1/2" | 40 | 21 | 7 | 98 | 134 | 14 | 8 |
| | BPFRF4H50 | 2" | 50 | 26 | 8 | 115 | 150 | 18 | 8 |
| | BPFRF4H65 | 2-1/2" | 65 | 30 | 9 | 127 | 164 | 18 | 4 |

*Black (B) & Galvanised (G) finish is available on request.

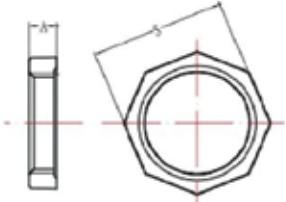
THICK ROUND FLANGE WITH BOLT HOLES

| | Part Code | BSPT | DN | A (mm) | B (mm) | No. of Holes | Bolt Hole Ø mm | Pcs/Ctn |
|---|-------------|--------|-----|--------|--------|--------------|----------------|---------|
|  | BPFRF4H32T | 1-1/4" | 32 | 24 | 105 | 4 | 18 | 20 |
|  | BPFRF4H40T | 1-1/2" | 40 | 26 | 115 | 4 | 18 | 20 |
|  | BPFRF4H50T | 2" | 50 | 29 | 125 | 4 | 18 | 16 |
| | BPFRF4H65T | 2-1/2" | 65 | 33 | 145 | 4 | 18 | 12 |
| | BPFRF8H80T | 3" | 80 | 34 | 160 | 8 | 18 | 8 |
| | BPFRF8H100T | 4" | 100 | 39 | 180 | 8 | 18 | 8 |
| | BPFRF8H150T | 6" | 150 | 42 | 240 | 8 | 22 | 4 |

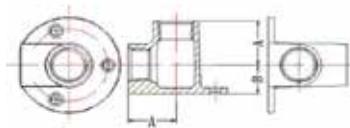
CROSSOVER

| | Part Code | BSPT | DN | L (mm) | Pcs/Ctn |
|---|-----------|--------|----|--------|---------|
|  | BPFC0015 | 1/2" | 15 | 90 | 150 |
|  | BPFC0020 | 3/4" | 20 | 104 | 90 |
| | BPFC0025 | 1" | 25 | 120 | 50 |
| | BPFC0032 | 1-1/4" | 32 | 149 | 32 |
| | BPFC0040 | 1-1/2" | 40 | 160 | 26 |
| | BPFC0050 | 2" | 50 | 194 | 12 |

BACKNUT

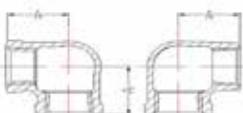
| | Part Code | BSPT | DN | A (mm) | S (mm) | Pcs/Ctn |
|---|-----------|--------|-----|--------|--------|---------|
|  | BPFBN015 | 1/2" | 15 | 9 | 29 | 700 |
|  | BPFBN020 | 3/4" | 20 | 10 | 36 | 500 |
|  | BPFBN025 | 1" | 25 | 11 | 45 | 400 |
| | BPFBN032 | 1-1/4" | 32 | 11 | 56 | 300 |
| | BPFBN040 | 1-1/2" | 40 | 12 | 63 | 240 |
| | BPFBN050 | 2" | 50 | 13 | 77 | 160 |
| | BPFBN065 | 2-1/2" | 65 | 15 | 93 | 60 |
| | BPFBN080 | 3" | 80 | 18 | 109 | 50 |
| | BPFBN100 | 4" | 100 | 21 | 137 | 40 |

WALL ELBOW

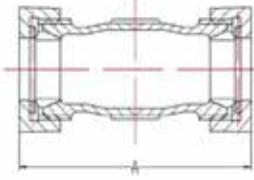
| | Part Code | BSPT | DN | A (mm) | B (mm) | Pcs/Ctn |
|---|-----------|------|----|--------|--------|---------|
|  | BPFWE015 | 1/2" | 15 | 28 | 18 | 150 |
|  | BPFWE020 | 3/4" | 20 | 33 | 20 | 100 |
|  | | | | | | |

BANDED SIDE OUTLET ELBOW

| | Part Code | BSPT | DN | A (mm) | Pcs/Ctn |
|---|-----------|------|----|--------|---------|
|  | BPFOE015 | 1/2" | 15 | 27 | 240 |
|  | BPFOE020 | 3/4" | 20 | 32 | 140 |

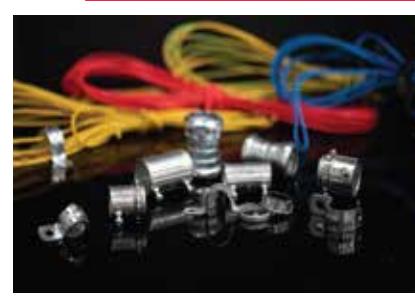


SHORT COMPRESSION COUPLING

| | Part Code | BSPT | DN | A (mm) | Pcs/Ctn |
|---|-----------|--------|----|--------|---------|
|  | BPFSCC015 | 1/2" | 15 | 71 | 140 |
| | BPFSCC020 | 3/4" | 20 | 77 | 120 |
| | BPFSCC025 | 1" | 25 | 84 | 80 |
| | BPFSCC032 | 1-1/4" | 32 | 92 | 40 |
| | BPFSCC040 | 1-1/2" | 40 | 97 | 32 |
|  | BPFSCC050 | 2" | 50 | 108 | 20 |

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- FLEXIBLE CONDUIT & ACCESSORIES - BS & UL STANDARDS
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- EMT CONDUIT & ACCESSORIES - UL STANDARD
- RGS-RMC CONDUIT SYSTEMS
- IMC CONDUIT SYSTEMS
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- US specification malleable pipe fittings
 - UL 213
 - EN 10242 OR ISO 49
- US specification EMT conduit and accessories
 - ANSI C80.3
 - UL 797
 - UL 514B
 - UL 2239
 - UL 1
- BS 61386/4568/50086/31 conduit and accessories
 - Pre galvanised
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 - Stainless steel
- BS 4662 switch and socket boxes
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- Mass transportation
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- Places of worship

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