FLUID TECH®

FLUID TECH PIPING SYSTEMS (TIANJIN) CO.,LTD
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Fluid Tech Solutions

Valve Solutions





FLUID TECH®

MALLEABLE IRON PIPE FITTINGS

PROFESSIONAL PRODUCTS & SIMPLIFIED PROCUREMENT

FLUID TECH PIPING SYSTEMS (TIANJIN) CO.,LTD

About Us

Who are we?

Fluid Tech Piping System Company is the first integrated manufacturing and trading export enterprise in Northern China, focusing on full-range piping systems for fire protection, HVAC and waterworks. Founded in Tianjin in 2018, we deliver one-stop procurement, customized OEM manufacturing and professional fluid conveying solutions for global clients.
As a leading industry enterprise, Fluid Tech Piping System Company holds strategic equity investments in multiple core domestic manufacturing hubs. All production facilities operate in strict accordance with international quality system standards certified by ISO, SGS and TÜV. We focus deeply on fire protection and HVAC sectors, building a complete fluid piping product ecosystem to meet full-scenario engineering needs.

Core Product Ecosystem

Fittings: Grooved couplings & fittings, galvanized & black pipe fittings, stainless steel fittings, butt-welding fittings
Valves & Hardware: Fire protection valves, industrial valves, steel pipe nipples & sockets, pipe hangers & supports, and full-range fire-fighting accessories



FLUID TECH®

CATALOG

ABOUT US

PRODUCTION EQUIPMENT

INSPECTION EQUIPMENT

CERTIFICATIONS

TECH COMPARISONS

MALLEABLE IRON PIPE FITTING
BS STANDARD / CLASS 150/300

DUCTILE IRON PIPE FITTING
BS STANDARD / CLASS 150

MALLEABLE IRON PIPE FITTING
MEDIUM TYPE WITHOUT FM /UL

PRODUCTION EQUIPMENT



Molding Process

The Fadilke sand mixing system redefines casting excellence with unmatched efficiency and stability – every grain of sand under absolute control, every mold built to withstand the closest scrutiny.

The 416 vertical automatic molding line handles even the most complex geometries with ease, working in perfect harmony with the sand preparation system to push throughput to the limit and drive yield to the top That's the confidence we deliver to our customers.



FLUID TECH®



Threading, Air Pressure Test, and Anti-rust Treatment



Automatic Resin Sand Reclamation Line





INSPECTION EQUIPMENT



CMM



Projector



The Length of The Test Instrument



Roughness Tester



Carbon Sulfur Analyzer



Tensile Strength Testing Equipment



Sand Testing Instrument



Metallurgical Microscope



Spectrometer

Reliable Quality Assurance

Fluid Tech Group holds the title of National Enterprise Technical Center, equipped with full capabilities and qualifications to conduct a comprehensive range of tests and inspections — including chemical analysis, mechanical performance evaluation, and dimensional verification.

From incoming material inspection to finished product release, quality is strictly controlled and continuously monitored throughout the entire production process. Every manufacturing step is thoroughly documented, regularly reviewed for revision control, and aligned with updated standards. Our quality procedures are under constant surveillance and improvement to ensure that only the highest-quality and most consistent products are delivered to our valued customers.

CERTIFICATIONS



ISO CERTIFICATES



FM CERTIFICATES



UL CERTIFICATES

CE CERTIFICATE

TECH COMPARISONS

Differences Between Ductile Iron and Malleable Cast Iron

Definition
- **Ductile iron: graphite spheroidized by nodulizing agents (Mg, rare-earth) in molten iron.**
- **Malleable iron: annealed white iron; graphite becomes floccular (not forgeable).**

Typical Applications
- **Ductile iron: high-load parts – crankshafts, gears, high-pressure cylinders (often replaces steel).**
- **Malleable iron: impact/vibration parts – pipe fittings, valves, spring brackets, thin-wall tools.**

Process & Cost
- **Ductile iron: simple casting + nodulizing/inoculation → lower cost, higher cost-performance.**
- **Malleable iron: prolonged high-temp annealing → stable but more complex.**

Microstructure (Core Difference)
- **Ductile iron: spherical graphite → minimal stress concentration.**



- **Malleable iron: floccular graphite → higher stress concentration.**



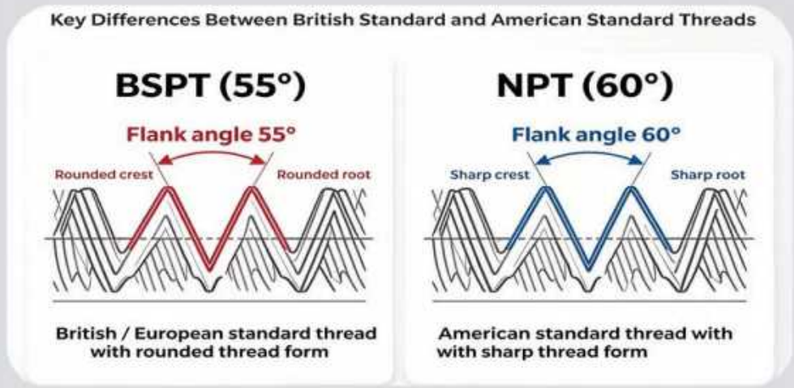
Aspect	Ductile Iron	Malleable Iron
Graphite shape	Spherical	Floccular
Strength & fatigue	Higher	Lower
Plasticity	Good	Good (slightly better impact resistance)
Typical use	Crankshafts, gears, high-pressure parts	Pipe fittings, valves, thin-wall brackets
Process	Simple; nodulizing treatment	Complex; long annealing
Cost-performance	Higher	Moderate

FLUID TECH®

BSPT vs NPT Thread Standards（55° vs 60°）

1. Thread Profile Difference

BSPT thread: 55° flank angle, with rounded crests and roots.
NPT thread: 60° flank angle, with flat crests and roots.



2. Non-Interchangeability Warning

BSPT and NPT threads are NOT interchangeable, even though they share the same 1:16 taper ratio. Forced assembly will cause incomplete thread engagement, sealing gaps and pressure leakage.

3. Matched Material & Product Standards

For NPT (American Standard) series: malleable iron threaded fittings comply with ASTM A197 and ASME B16.3; ductile iron grooved fire fittings comply with UL 213, FM 1920 and AWWA C606. For BSPT (British / European Standard) series: malleable iron threaded fittings comply with EN 10242 and BS 143; ductile iron grooved fire fittings comply with BS EN 12845 with LPCB approval.

4. Pressure Rating System

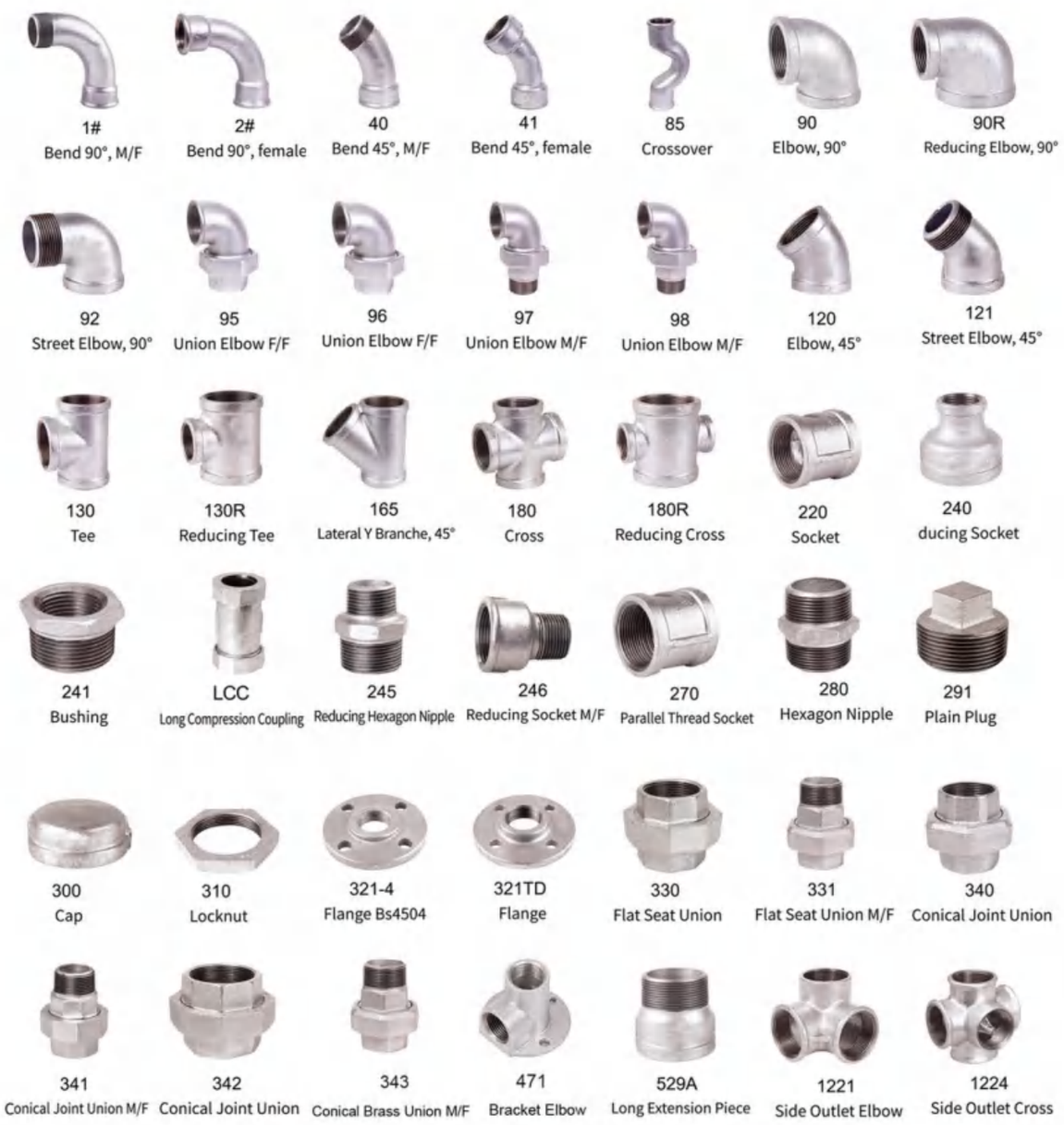
American standard uses Class 150 (300 PSI) and Class 300 rating system. British / European standard uses PN 10, PN 16 and PN 25 rating system.

5. Regional Market Application

NPT standard is widely applied in North America, Mexico, Latin America and all US-standard fire protection & plumbing projects. BSPT standard is widely applied in the United Kingdom, Commonwealth countries, the Middle East, Southeast Asia and Australia.

Malleable Iron Pipe Fitting BS Standard / Class 150/300

Material: BS EN 1562, ASTM A-197, DIN EN 1562 Dimension: BS EN 10242,ASME B16.3, B16.14, DIN EN 10242 Threads: ISO 7-1, BSPT,ASME B1.20.1, NPT Size Available:1/8"-6" Certificate： FM , UL





Ductile Iron Pipe Fitting BS Standard / Class 150

Material:ASTM A536, GRADE 65-45-12 Dimension: BS EN 10242,ASME B16.3, B16.14 Threads: ISO 7-1, BSPT,ASME B1.20.1, NPT Size Available:1/8"-6" Certificate：FM , UL





Malleable Iron Pipe Fitting Medium Type Without FM /UL

Material: BS EN 1562, ASTM A-197 Threads: ISO 7-1, BSPT, NPT Size Available:1/4"-6"



FLUID TECH®



Precision Casting & Pouring:

Molten iron is poured into the sand mold from a bottom-pour ladle, forming the raw casting of malleable iron pipe fittings.

Body Text

1. Premium Raw Material & Melting Control

We utilize high-purity pig iron and selected scrap steel, melted in medium-frequency induction furnaces. Chemical composition is strictly monitored by spectrometers to meet the metallurgical requirements of ASTM A197 and BS EN 1562.

2. Optimized Pouring Temperature

Pouring temperature is strictly controlled between 1420℃ - 1480℃. This ensures optimal fluidity to completely fill complex cores, eliminating misruns and cold shuts.

3. Dense Microstructure & Zero Defects

Optimized gating and venting systems minimize porosity, sand holes, and slag inclusion. The dense as-cast structure ›rovides the perfect foundation for subsequent graphitizing annealing.

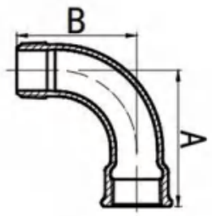
Standards & Mechanical Properties

Standards: ANSI/ASME B16.3, ASTM A197, BS EN 10242, BS 6681.
Threads: NPT (American), BSP / BSPT (British), ISO 7-1.
Tensile Strength: ≥ 350 MPa.
Elongation: ≥ 10%.
Hydraulic Test: 100% tested at 2.5 MPa.
Surface Finish: Hot-Dip Galvanized per ASTM A153 / BS EN ISO 1461.

Bend 90°, M/F

Fig.1



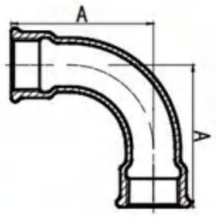


Size		A	B
BSPT	DN	mm	mm
3/8"	10	48	42
1/2"	15	55	48
3/4"	20	69	60
1"	25	85	75
1-1/4"	32	105	95
1-1/2"	40	116	105
2"	50	140	130
2-1/2"	65	176	165
3"	80	205	190
4"	100	260	245

Bend 90°, female

Fig.2



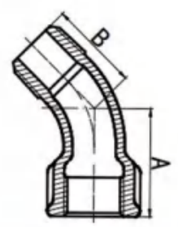


Size		A
BSPT	DN	mm
3/8"	10	48
1/2"	15	55
3/4"	20	69
1"	25	85
1-1/4"	32	105
1-1/2"	40	116
2"	50	140
2-1/2"	65	176
3"	80	205
4"	100	260

Bend 45°, M/F

Fig.40



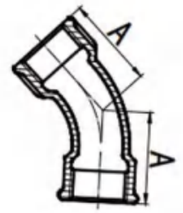


Size		A	B
BSPT	DN	mm	mm
1/2"	15	36	30
3/4"	20	43	36
1"	25	51	42
1-1/4"	32	64	54
1-1/2"	40	68	58
2"	50	81	70
2-1/2"	65	99	86
3"	80	113	100
4"	100	142	126

Bend 45°, female

Fig.41

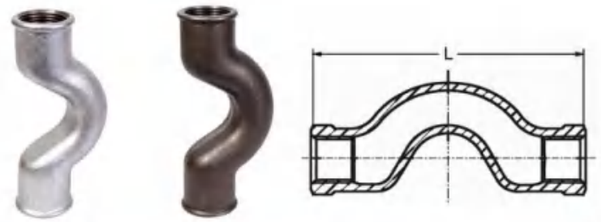




Size		A
BSPT	DN	mm
1/2"	15	36
3/4"	20	43
1"	25	51
1-1/4"	32	64
1-1/2"	40	68
2"	50	81
2-1/2"	65	99
3"	80	113
4"	100	142

Crossover

Fig.85



Size		L
BSPT	DN	mm
1/2"	15	90
3/4"	20	104
1"	25	120
1-1/4"	32	149
1-1/2"	40	160
2"	50	194

Elbow,90°

Fig.90



Size		A
BSPT	DN	mm
1/8"	6	18
1/4"	8	20
3/8"	10	24
1/2"	15	27
3/4"	20	32
1"	25	37
1-1/4"	32	44.5
1-1/2"	40	48.5
2"	50	57
2-1/2"	65	68.5
3"	80	77.5
4"	100	96.5
6"	150	129

Reducing Elbow, 90°

Fig.90R



Size		A	B
BSPT	DN	mm	mm
1/2" x 3/8"	15x10	25	25
3/4" x 1/2"	20x15	29	30
1" x 3/8"	25x10	29	31
1" x 1/2"	25x15	31	33
1" x 3/4"	25x20	34	35
1-1/4" x 3/8"	32x10	31	36
1-1/4" x 1/2"	32x15	34	37
1-1/4" x 3/4"	32x20	36	40
1-1/4" x 1"	32x25	40	41
1-1/2" x 1/2"	40x15	35	41
1-1/2" x 3/4"	40x20	37	43
1-1/2" x 1"	40x25	41	45
1-1/2" x 1-1/4"	40x32	45	47
2" x 1/2"	50x15	37	47
2" x 3/4"	50x20	40	49
2" x 1"	50x25	43	51
2" x 1-1/4"	50x32	47	53
2" x 1-1/2"	50x40	51	54
2-1/2" x 1/2"	65x15	40.5	56
2-1/2" x 3/4"	65x20	43.5	57
2-1/2" x 1"	65x25	47.5	59
2-1/2" x 1-1/4"	65x32	51.5	61
2-1/2" x 1-1/2"	65x40	54.5	61
2-1/2" x 2"	65x50	59.5	64
3" x 1/2"	80x15	42.5	64
3" x 3/4"	80x20	45.5	65
3" x 1"	80x25	49.5	67
3" x 1-1/4"	80x32	54.5	69
3" x 1-1/2"	80x40	57.5	71
3" x 2"	80x50	61.5	71
3" x 2-1/2"	80x65	71.5	74
4" x 1/2"	100x15	49.5	78
4" x 3/4"	100x20	53.5	79
4" x 1"	100x25	56.5	82
4" x 1-1/4"	100x32	60.5	85
4" x 1-1/2"	100x40	62.5	85
4" x 2"	100x50	68.5	86
4" x 2-1/2"	100x65	77.5	89
4" x 3"	100x80	82.5	90

Street Elbow, 90°

Fig.92



Size		A	B
BSPT	DN	mm	mm
1/4"	8	20	28
3/8"	10	25	33
1/2"	15	28	38
3/4"	20	33	44
1"	25	38	52
1-1/4"	32	45	60
1-1/2"	40	50	65
2"	50	58	74
2-1/2"	65	69	90
3"	80	77.5	100
4"	100	96.5	120

Union Elbow F/F

Fig.95



Size		A	B
BSPT	DN	mm	mm
1/2"	15	24.5	54
3/4"	20	29	60
1"	25	35	68
1-1/4"	32	42	80
1-1/2"	40	45.5	86
2"	50	53.5	97

Union Elbow F/F

Fig.96



Size		A	B
Inch	DN	mm	mm
1/2"	15	58	28
3/4"	20	62	33
1"	25	72	38
1-1/4"	32	82	45
1-1/2"	40	90	50
2"	50	100	58

Union Elbow M/F

Fig.97

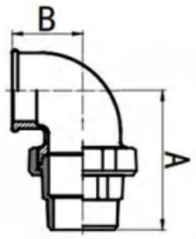


Size		A	B
BSPT	DN	mm	mm
1/2"	15	24.5	72
3/4"	20	29	80
1"	25	35	90
1-1/4"	32	42	105
1-1/2"	40	45.5	111
2"	50	53.5	125

Union Elbow M/F

Fig.98



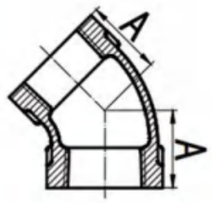


Size		A	B
BSPT	DN	mm	mm
1/2"	15	76	28
3/4"	20	82	33
1"	25	94	38
11/4"	32	107	45
11/2"	40	115	50

Elbow,45°

Fig.120



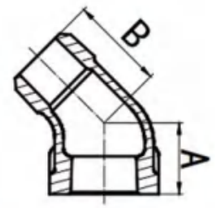


Size		A	B
BSPT	DN	mm	mm
1/2"	15	24.5	72
3/4"	20	29	80
1"	25	35	90
1-1/4"	32	42	105
1-1/2"	40	45.5	111
2"	50	53.5	125

Street Elbow, 45°

Fig.121



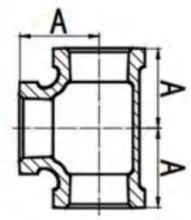


Size		A	B
BSPT	DN	mm	mm
1/8"	6	16	21
1/4"	8	18.5	24
3/8"	10	20	25
1/2"	15	22	28
3/4"	20	25	32
1"	25	28	37
11/4"	32	33	43
11/2"	40	36	46
2"	50	43	55
21/2"	65	49.5	65
3"	80	55	76
4"	100	66	94

Tee

Fig.130



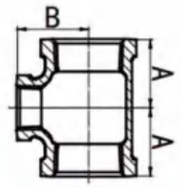


Size		A
BSPT	DN	mm
1/8"	6	18
1/4"	8	20
3/8"	10	24
1/2"	15	27
3/4"	20	32
1"	25	37
1-1/4"	32	44.5
1-1/2"	40	48.5
2"	50	57
2-1/2"	65	68.5
3"	80	77.5
4"	100	96.5
6"	150	129

Reducing Tee

Fig.130R



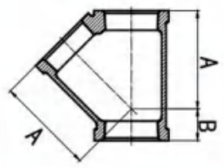


Size		A	B
BSPT	DN	mm	mm
3/4" x 1/2"	20x15	29	30
1" x 3/8"	25x10	29	31
1" x 1/2"	25x15	31	33
1" x 3/4"	25x20	34	35
1-1/4" x 3/8"	32x10	31	36
1-1/4" x 1/2"	32x15	34	37
1-1/4" x 3/4"	32x20	36	40
1-1/4" x 1"	32x25	40	41
1-1/2" x 1/2"	40x15	35	41
1-1/2" x 3/4"	40x20	37	43
1-1/2" x 1"	40x25	41	45
1-1/2" x 1-1/4"	40x32	45	47
2" x 1/2"	50x15	37	47
2" x 3/4"	50x20	40	49
2" x 1"	50x25	43	51
2" x 1-1/4"	50x32	47	53
2" x 1-1/2"	50x40	51	54
2-1/2" x 1/2"	65x15	40.5	56
2-1/2" x 3/4"	65x20	43.5	57
2-1/2" x 1"	65x25	47.5	59
2-1/2" x 1-1/4"	65x32	51.5	61
2-1/2" x 1-1/2"	65x40	54.5	61
2-1/2" x 2"	65x50	59.5	64
3" x 1/2"	80x15	42.5	64
3" x 3/4"	80x20	45.5	65
3" x 1"	80x25	49.5	67
3" x 1-1/4"	80x32	54.5	69
3" x 1-1/2"	80x40	57.5	71
3" x 2"	80x50	61.5	71
3" x 2-1/2"	80x65	71.5	74
4" x 1/2"	100x15	49.5	78
4" x 3/4"	100x20	53.5	79
4" x 1"	100x25	56.5	82
4" x 1-1/4"	100x32	60.5	85
4" x 1-1/2"	100x40	62.5	85
4" x 2"	100x50	68.5	86
4" x 2-1/2"	100x65	77.5	89
4" x 3"	100x80	82.5	90

Lateral Y Branche, 45°

Fig.165



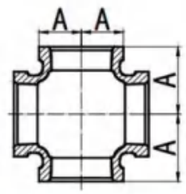


Size		A	B
BSPT	DN	mm	mm
1/2"	15	42	18
3/4"	20	51.5	18.5
1"	25	62	23
1-1/4"	32	75	28
1-1/2"	40	82	30
2"	50	100.5	32.5
2-1/2"	65	125	39
3"	80	140	45
4"	100	180	55

Cross

Fig.180



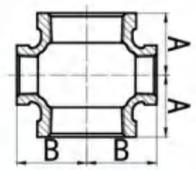


Size		A
BSPT	DN	mm
1/2"	15	27
3/4"	20	32
1"	25	37
1-1/4"	32	44.5
1-1/2"	40	48.5
2"	50	57
2-1/2"	65	68.5
3"	80	77.5
4"	100	96.5

Reducing Cross

Fig.180R



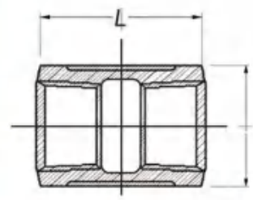


Size		A	B
BSPT	DN	mm	mm
3/4" x 1/2"	20x15	29	30
1" x 1/2"	25x15	31	33
1" x 3/4"	25x20	34	35
1-1/4" x 1/2"	32x15	34	37
1-1/4" x 3/4"	32x20	36	40
1-1/4" x 1"	32x25	40	41
1-1/2" x 1/2"	40x15	35	41
1-1/2" x 3/4"	40x20	37	43
1-1/2" x 1"	40x25	41	45
1-1/2" x 1-1/4"	40x32	45	47
2" x 1/2"	50x15	37	47
2" x 3/4"	50x20	40	49
2" x 1"	50x25	43	51
2" x 1-1/4"	50x32	47	53
2" x 1-1/2"	50x40	51	54
2-1/2" x 1/2"	65x15	40.5	56
2-1/2" x 3/4"	65x20	43.5	57
2-1/2" x 1"	65x25	47.5	59
2-1/2" x 1-1/4"	65x32	51.5	61
2-1/2" x 1-1/2"	65x40	54.5	61
2-1/2" x 2"	65x50	59.5	64
3" x 1/2"	80x15	42.5	64
3" x 3/4"	80x20	45.5	65
3" x 1"	80x25	49.5	67
3" x 1-1/4"	80x32	54.5	69
3" x 1-1/2"	80x40	57.5	71
3" x 2"	80x50	61.5	71
3" x 2-1/2"	80x65	71.5	74
4" x 1/2"	100x15	49.5	78
4" x 3/4"	100x20	53.5	79
4" x 1"	100x25	56.5	82
4" x 1-1/4"	100x32	60.5	85
4" x 1-1/2"	100x40	62.5	85
4" x 2"	100x50	68.5	86
4" x 2-1/2"	100x65	77.5	89
4" x 3"	100x80	82.5	90

Socket

Fig.220



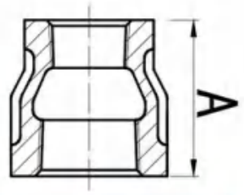


Size		L
BSPT	DN	mm
1/8"	6	23.5
1/4"	8	26
3/8"	10	29
1/2"	15	35
3/4"	20	38
1"	25	44
1-1/4"	32	49
1-1/2"	40	53
2"	50	63
2-1/2"	65	72
3"	80	77.5
4"	100	91.5
6"	150	118

Reducing Socket

Fig.240





Size		L
BSPT	DN	mm
3/8" x 1/4"	10x8	29
1/2" x 1/4"	15x8	35
1/2" x 3/8"	15x10	36
3/4" x 1/4"	20x8	38
3/4" x 3/8"	20x10	38
3/4" x 1/2"	20x15	38
1" x 1/4"	25x8	44
1" x 3/8"	25x10	44
1" x 1/2"	25x15	44
1" x 3/4"	25x20	44
1-1/4" x 1/2"	32x15	49
1-1/4" x 3/4"	32x20	49
1-1/4" x 1"	32x25	49

(Cont.)

Reducing Socket

Fig.240



Size		L
BSPT	DN	mm
1-1/2" x 1/2"	40x15	53
1-1/2" x 3/4"	40x20	53
1-1/2" x 1"	40x25	53
1-1/2" x 1-1/4"	40x32	53
2" x 1/2"	50x15	63
2" x 3/4"	50x20	63
2" x 1"	50x25	63
2" x 1-1/4"	50x32	63
2" x 1-1/2"	50x40	63
2-1/2" x 1/2"	65x15	72
2-1/2" x 3/4"	65x20	72
2-1/2" x 1"	65x25	72
2-1/2" x 1-1/4"	65x32	72
2-1/2" x 1-1/2"	65x40	72
2-1/2" x 2"	65x50	72
3" x 1/2"	80x15	77.5
3" x 3/4"	80x20	77.5
3" x 1"	80x25	77.5
3" x 1-1/4"	80x32	77.5
3" x 1-1/2"	80x40	77.5
3" x 2"	80x50	77.5
3" x 2-1/2"	80x65	77.5
4" x 1/2"	100x15	91.5
4" x 3/4"	100x20	91.5
4" x 1"	100x25	91.5
4" x 1-1/4"	100x32	91.5
4" x 1-1/2"	100x40	91.5
4" x 2"	100x50	91.5
4" x 2-1/2"	100x65	91.5
4" x 3"	100x80	91.5
6" x 4"	150x80	118

FLUID TECH®

Bushing

Fig.241

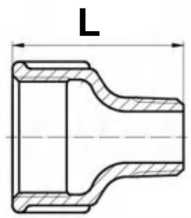


Size		L	S	H
BSPT	DN	mm	mm	mm
1/4" x 1/8"	8x6	18.5	16.8	6
3/8" x 1/8"	10x6	18	20	6
3/8" x 1/4"	10x8	18.5	18.4	6
1/2" x 1/4"	15x8	22.5	22	6
1/2" x 3/8"	15x10	22.5	22	6
3/4" x 1/4"	20x8	24.5	29.6	6
3/4" x 3/8"	20x10	24.5	29.6	6
3/4" x 1/2"	20x15	24.5	29.6	6
1" x 1/4"	25x8	28	37.4	6.5
1" x 3/8"	25x10	28	37.4	6.5
1" x 1/2"	25x15	28	37.4	6.5
1" x 3/4"	25x20	28	37.4	6.5
1-1/4" x 1/2"	32x15	30	45.6	7
1-1/4" x 3/4"	32x20	30	45.6	7
1-1/4" x 1"	32x25	30	45.6	7
1-1/2" x 1/2"	40x15	30	50	7.5
1-1/2" x 3/4"	40x20	30	50	7.5
1-1/2" x 1"	40x25	30	50	7.5
1-1/2" x 1-1/4"	40x32	30	50	7.5
2" x 1/2"	50x15	33	64.1	8.5
2" x 3/4"	50x20	33	64.1	8.5
2" x 1"	50x25	33	64.1	8.5
2" x 1-1/4"	50x32	33	64.1	8.5
2" x 1-1/2"	50x40	33	64.1	8.5
2-1/2" x 1/2"	65x15	39	79.6	9
2-1/2" x 3/4"	65x20	39	79.6	9
2-1/2" x 1"	65x25	39	79.6	9
2-1/2" x 1-1/4"	65x32	39	79.6	9
2-1/2" x 1-1/2"	65x40	39	79.6	9
2-1/2" x 2"	65x50	39	79.6	9
3" x 1/2"	80x15	42	93	10
3" x 3/4"	80x20	42	93	10
3" x 1"	80x25	42	93	10
3" x 1-1/4"	80x32	42	93	10
3" x 1-1/2"	80x40	42	93	10
3" x 2"	80x50	42	93	10
3" x 2-1/2"	80x65	42	93	10
4" x 1/2"	100x15	49	118.4	11
4" x 3/4"	100x20	49	118.4	11
4" x 1"	100x25	49	118.4	11
4" x 1-1/4"	100x32	49	118.4	11
4" x 1-1/2"	100x40	49	118.4	11
4" x 2"	100x50	49	118.4	11
4" x 2-1/2"	100x65	49	118.4	11
4" x 3"	100x80	49	118.4	11
6" x 3"	150x80	60	170.8	13
6" x 4"	150x100	60	170.8	13

Reducing Socket M/F

Fig.246





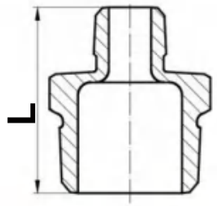
Size		L
BSPT	DN	mm
3/4" x 1/2"	20X15	47
1" x 1/2"	25X15	54
1" x 3/4"	25X20	54
1-1/4" x 3/4"	32X20	59
1-1/4" x 1"	32X25	59
1-1/2" x 3/4"	40X20	62
1-1/2" x 1"	40X25	62
1-1/2" x 1-1/4"	40X32	62
2" x 1"	50X25	69
2" x 1-1/4"	50X32	69
2" x 1-1/2"	50X40	69

FLUID TECH®

Reducing Hexagon Nipple

Fig.245





Size		L	S
BSPT	DN	mm	mm
1/2" x 1/4"	15x8	44	22
1/2" x 3/8"	15x10	44	22
3/4" x 1/2"	20x15	47	29.9
1" x 1/2"	25x15	53	35.8
1" x 3/4"	25x20	53	35.8
1-1/4" x 1/2"	32x15	57	45.6
1-1/4" x 3/4"	32x20	57	45.6
1-1/4" x 1"	32x25	57	45.6
1-1/2" x 1/2"	40x15	59	50.5
1-1/2" x 3/4"	40x20	59	50.5
1-1/2" x 1"	40x25	59	50.5
1-1/2" x 1-1/4"	40x32	59	50.5
2" x 1/2"	50x15	68	63.5
2" x 3/4"	50x20	68	63.5
2" x 1"	50x25	68	63.5
2" x 1-1/4"	50x32	68	63.5
2" x 1-1/2"	50x40	68	63.5
2-1/2" x 2"	65x50	73	79.4
3" x 2"	80x50	81	91.6
3" x 2-1/2"	80x65	81	91.6
4" x 2"	100x50	95	117
4" x 2-1/2"	100x65	95	117
4" x 3"	100x80	95	117

Parallel Thread Socket

Fig.270



Size		A
BSPT	DN	mm
1/4"	8	26
3/8"	10	29
1/2"	15	35
3/4"	20	38
1"	25	44
1-1/4"	32	49
1-1/2"	40	53
2"	50	63
2-1/2"	65	72
3"	80	77.5
4"	100	91.5
6"	150	118

Hexagon Nipple

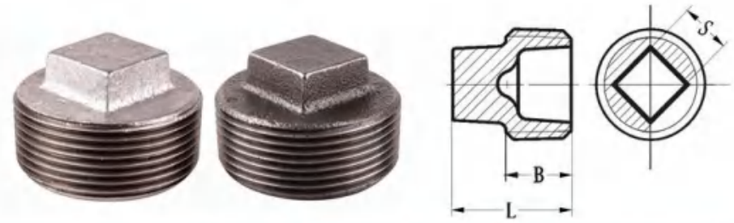
Fig.280



Size		L
BSPT	DN	mm
1/4"	8	36
3/8"	10	36
1/2"	15	44
3/4"	20	47
1"	25	53
1-1/4"	32	56
1-1/2"	40	58
2"	50	68
2-1/2"	65	73
3"	80	81
4"	100	95
6"	150	107

Plain Plug

Fig.291



Size		L	B	S
BSPT	DN	mm	mm	mm
1/4"	8	15.5	10	6
3/8"	10	17	10	7
1/2"	15	22.5	13	10
3/4"	20	24	14	12
1"	25	27	16.5	15
1-1/4"	32	30	20	18
1-1/2"	40	31	21	22
2"	50	36	25	26
2-1/2"	65	40.5	27	30
3"	80	45.5	29.5	34
4"	100	58.5	38	44
6"	150	65	42	65

Cap

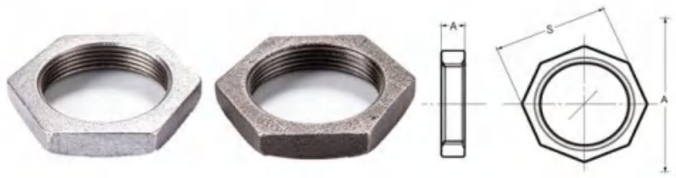
Fig.300



Size		A	S
BSPT	DN	mm	mm
3/8"	10	17	20.6
1/2"	15	19	24.6
3/4"	20	22	30.4
1"	25	24	37.2
1-1/4"	32	27	47
1-1/2"	40	28	53
2"	50	32	65

Locknut

Fig.310



Size		A	S
BSPT	DN	mm	mm
1/2"	15	9	29
3/4"	20	10	36
1"	25	11	45
1-1/4"	32	11	56
1-1/2"	40	12	63
2"	50	13	77
2-1/2"	65	15	93
3"	80	18	109
4"	100	21	137

Flange Bs4504

Fig.321-4



Size		A
BSPT	DN	mm
11/4"	32	23
11/2"	40	23
2"	50	28
21/2"	65	35
3"	80	38
4"	100	38
6"	150	46

Flange

Fig.321TD



Size		A
BSPT	DN	mm
1"	25	16
11/4"	32	17.4
11/2"	40	23
2"	50	25
21/2"	65	25
3"	80	26.8
4"	100	31.5
6"	150	35

Flat Seat Union

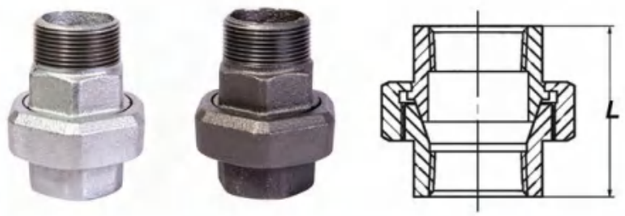
Fig.330



Size		L
BSPT	DN	mm
3/8"	10	39
1/2"	15	46
3/4"	20	50
1"	25	56
1-1/4"	32	63
1-1/2"	40	68
2"	50	76
2-1/2"	65	83
3"	80	93
4"	100	113.5

Flat Seat Union M/F

Fig.331



Size		L
BSPT	DN	mm
1/2"	15	64
3/4"	20	70
1"	25	78
1-1/4"	32	88
1-1/2"	40	93
2"	50	104

Conical Joint Union

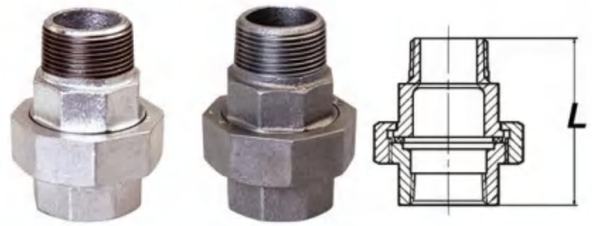
Fig.340



Size		L
BSPT	DN	mm
1/4"	8	42
3/8"	10	45
1/2"	15	47
3/4"	20	51.5
1"	25	57
1-1/4"	32	65
1-1/2"	40	71
2"	50	79
2-1/2"	65	85.5
3"	80	94.5
4"	100	110.5

Conical Joint Union M/F

Fig.341



Size		L
BSPT	DN	mm
1/2"	15	65
3/4"	20	71.5
1"	25	79
1-1/4"	32	90
1-1/2"	40	96
2"	50	107

Conical Joint Union

Fig.342



Size		L
BSPT	DN	mm
1/4"	8	42
3/8"	10	45
1/2"	15	47
3/4"	20	51
1"	25	56.5
1-1/4"	32	64
1-1/2"	40	70
2"	50	78.5
2-1/2"	65	84.5
3"	80	94
4"	100	110

Conical Brass Union M/F

Fig.343



Size		L
BSPT	DN	mm
1/2"	15	65
3/4"	20	71
1"	25	78.5
1-1/4"	32	89
1-1/2"	40	95
2"	50	106.5

Bracket Elbow

Fig.471



Size		A	B
BSPT	DN	mm	mm
1/2"	15	28	18
3/4"	20	33	20

Long Extension Piece

Fig.529A



Size		A
BSPT	DN	mm
1/2"	15	44
3/4"	20	45
1"	25	52
1-1/4"	32	57
1-1/2"	40	60
2"	50	66

Side Outlet Elbow

Fig.1221



Size		A
BSPT	DN	mm
1/2"	15	27
3/4"	20	32
1"	25	37

Side Outlet Cross

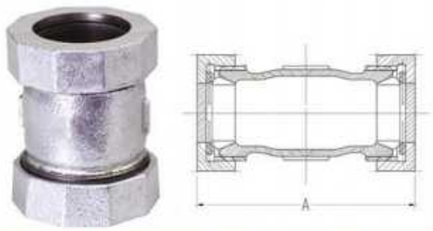
Fig.1224



Size		A
BSPT	DN	mm
11/4"	32	45
11/2"	40	50

Short Compression Coupling

Fig.SCC

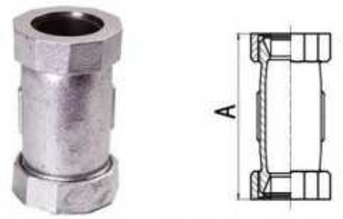


Size		A
BSPT	DN	mm
1/2"	15	71
3/4"	20	77
1"	25	84
1-1/4"	32	92
1-1/2"	40	97
2"	50	108

FLUID TECH®

Long Compression Coupling

Fig.LCC



Size		A
BSPT	DN	mm
1/2"	15	93
3/4"	20	101
1"	25	109
11/4"	32	114
11/2"	40	118
2"	50	121
21/2"	65	137
3"	80	145
4"	100	155