JAINSONS INDUSTRIES

ISO 9001 : 2008



Ductile Iron Threaded Pipe Fittings
Ductile Iron Grooved Fittings
BRASS Ball Valves

FM Approved

Check out our complete range online at www.jainsonsindustries.com



C O N T E N T S

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ISO-9001 by UL-MSS



Vendor Registration with SAIL



Approval Certificate from CIDCO



BIS/ISI Licence



Fire Protection Association of India (Membership Certificate)



Alibaba.com Gold Supplier



Trustseal – Indiamart



Fire & Security Association of India (Membership Certificate)



Registration Certificate with DGS&D



Registration Certificate with NSIC



FM Certificate



UL Certificate



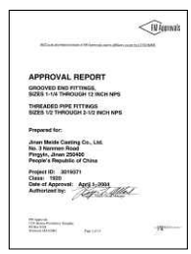
EN331 Certificate



UL Certificate MECH



FM Certificate MECH



INTRODUCTION







MECH
D.I. Fittings

ZHIQING
Brass Ball Valves

JSI®
Brass
Ball Valves



INTRODUCTION

We use this opportunity to introduce ourselves as a leading **Manufacturer of Malleable Cast Iron Galvanized Pipe Fittings for Water Supply, Fire Fighting & Natural Gas Distribution for almost most three decades**. We are also into marketing of Forged Brass Valves of various types, for Natural Gas Distribution, Water Supply & Air Conditioning.

We have **certification of Bureau of Indian Standards (BIS / ISI)**. To further certify our quality, the process systems as Jainsons Industries are **ISO-9001: 2008 approved by UL-MSS India**.

We have recently launched **UL & FM Approved Ductile Iron Pipe Fittings for Fire Fighting** (though these are being used worldwide), which are tested up to 500 psi, much lower than actual pressure carried in Fire Fighting Lines.

Also we can offer Brass Threaded Ball Valves with UL & FM Approval which can be used in Fire Systems Line.

List of few of our clientele in India & abroad will help you identify with our credibility and product quality. We are on the **approved vendor list of following Natural Gas Distribution companies**: -

- Egyptian Town Gas, Egypt
- Egypt Gas Co. Egypt
- Gujarat Gas Co. Ltd., Surat
- Mahanagar Gas Ltd., Mumbai
- Indraprastha Gas Ltd., New Delhi
- Gujarat Adani Energy Ltd., Ahmedabad

To add on to our credibility, we are also on the approved vendor list of **DMRC, i.e. Delhi Metro Rail Corporation, DGS&D, CIDCO Maharashtra and Bhilai Steel Plant, Bhilai.**

We have supplied Malleable Cast Iron Galvanized Pipe Fittings for Fire Fighting Systems to following sub contractors of DMRC: -

⇨ Larsen & Toubro Ltd. (Engineering, Construction & Contracts Division), Delhi
⇨ Kumagai Skanska HCC Itochu (KSHI) Group (Joint Venture)

We always take care of on time delivery & quality workmanship to satisfy customer needs.

In the light of the above information, **we are sure you will be interested in our pipe fittings and valves for your current & upcoming Projects.**

With Regards,

Rakesh Jain & Ashok Jain

CURRENT PROJECT

CURRENT PROJECTS

List of Projects in which our products are being used:-

Airports
- Indira Gandhi International Airport Project, Delhi (Cargo & Car Parking)
- Rajeev Gandhi International Airport, Hyderabad, A.P.
- Ranchi Airport, Jharkhand
- Raja Bhoj Airport, Bhopal

Hotels
- Sheraton Hotel, Chandigarh
- Pullman Airport Hotel, New Delhi
- Marriot Hotel, Chandigarh
- ITC's Today Hotel Project in Bengaluru as well as in New Delhi
- Seven Seas Hotel
- EROS Group's Five Star Hotels coming up in NCR Region
  a). Holiday inn, b). Mayur Vihar
- Westin Hotel, Gurgaon etc
- JW Marriot, Aerocity, New Delhi
- Pride Hotel, Delhi

Hospitals
- Fortis Hospital, Gurgaon
- MAX Hospital, Shalimar Bagh, NEW Delhi

Commercial / Residential
- Godrej Properties, Noida
- Indian Express Towers, Mumbai
- Noida City Centre, Noida
- Wipro group, Gurgaon
- RBS -Royal Bank of Scotland Gurgaon
- TRIL Info Park, Chennai
- India Bulls, Gurgaon
- Lotus Panache, Noida, by 3Cs
- Lotus Boulevard, Noida by 3Cs
- Star Court, Noida
- Jay Pee Green, Noida
- Jay Pee Arena, Noida
- M2K, Rohini
- Jay Pee Kosmos
- Gautam Budha Formula 1 Racing Circuit,
- Greater Noida
- HBN Suncity, Bathinda
- Logix Park, Noida
- Unitech Ltd., Delhi
- Cummins Technology

Industrial / Factory
- Nokia India Pvt. Ltd., Sriperumpudur (Tamil Nadu)
- Caterpillar (I) Pvt. Limited, Chennai
- BMW India Pvt. Limited, Chennai
- Toshiba, Chennai
- Paras Pharma, Baddi, HP
- Pfizer Testing Lab, Delhi
- Jain Irrigation Systems Ltd., Jalgaon

Power Plant
- Corning Technologies, Pune
- Reliance Power Project, Samalkot
- KSK Power project, Champa Chhattisgarh
- Unosugen, Surat
- Larsen & Toubro, Jabalpur

Contractors
- Tyco Fire & Security India Pvt. Ltd.
- Anush Finlease & Const. Pvt. Ltd., Delhi
- Alpha Pacific Engineers Pvt. Ltd., Gurgaon
- AMG Infrastructure Pvt.Ltd, Noida
- Ardelisys Technologies Pvt. Ltd., Chennai
- Blue Star Ltd., New Delhi
- D.S. Gupta Contractors Pvt. Ltd., New Delhi
- D.D.Pradhan & Co. (P) Ltd.
- ETA Engineering Pvt. Ltd.
- Electromech Fire Fighters Pvt. Ltd.
- Firepro Systems Pvt. Ltd., Bangalore
- Gautam Techno Sanitation Pvt. Ltd., Ghaziabad
- Metec Design & Construction Engineers (I) Pvt.Ltd.
- Oriental Fire & Safety Sytems
- Procon Engineers and Services, Delhi
- Pacific Fire Controls
- PreFire Contracting Engineers Pvt. Ltd.
- R.J Projects & Pvt. Ltd., Noida
- Rajesh Industrial Projects Pvt. Ltd.
- Safeworld Systems Pvt Ltd.
- Samal Infra Projects Pvt. Ltd.
- Sterling & Wilson Ltd., Noida
- Sudhankaran Nair & Co. Pvt. Ltd., Kerala
- Sameer Builtaid Pvt. Ltd., Delhi
- Scenario India Ltd., New Delhi
- Solas Fire Safety Equip. Pvt. Ltd., Bangalore
- SSE & S Engineers Pvt. Ltd., Faridabad
- Unitech Nohmi Fire Protection System Pvt.Ltd,
- Vijay fabricating Engineers



D . I . F I T T I N G S

DUCTILE IRON PIPE FITTING MECH

AMERICAN STANDARD

Material: ASTM A536
Union Dimensions: B16.39
Size Available: 1/4" - 3"

Dimensions: B16.3. B16.14
Threads: NPT/ BSPT

UL Listed
FM Approved

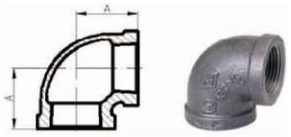


Improved Quality as compared to
EXPENSIVE FORGED FITTING

D . I . F I T T I N G S

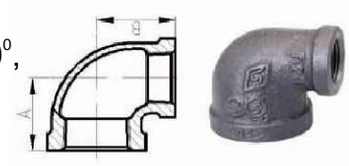
DUCTILE IRON PIPE FITTING MECH

90
Elbow, 90⁰



Size	Inch	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"					
	mm	15	20	25	32	40	50	65	80					
Dimensions	A	28.5	33.3	38.1	44.5	49.3	57.2	68.6	78.2					

90R
Elbow, 90⁰, Reducing



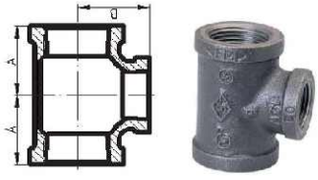
Size	Inch	3/4"x1/2"	1"x1/2"	1"x3/4"	1-1/4"x1/2"	1-1/4"x3/4"	1-1/4"x1"	1-1/2"x1/2"	1-1/2"x3/4"	1-1/2"x1"	1-1/2"x1-1/4"	2"x1/2"	2"x3/4"	2"x1"
	mm	20x15	25x15	25x20	32x15	32x20	32x25	40x15	40x20	40x25	40x32	50x15	50x20	50x25
Dimensions	A	30.5	32	34.8	34	36.8	40.1	35.8	38.6	41.9	46.2	37.9	40.6	43.9
	B	31	35.5	36.8	38.9	41.2	42.4	42.2	44.5	45.7	47.8	47.8	50	51.3

130
Tee



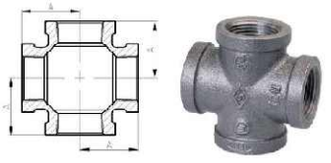
Size	Inch	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"						
	mm	15	20	25	32	40	50	65						
Dimensions	A	28.5	33.3	38.1	44.5	49.3	57.2	68.6						

130R
Tee, Reducing



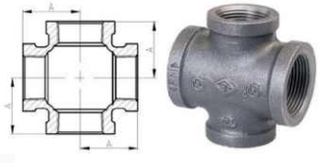
Size	Inch	3/4"x1/2"	1"x1/2"	1"x3/4"	1-1/4"x1/2"	1-1/4"x3/4"	1-1/4"x1"	1-1/2"x1/2"	1-1/2"x3/4"	1-1/2"x1"	1-1/2"x1-1/4"	2"x1/2"	2"x3/4"	2"x1"	2"x1-1/4"	2"x1-1/2"
	mm	20x15	25x15	25x20	32x15	32x20	32x25	40x15	40x20	40x25	40x32	50x15	50x20	50x25	50x32	50x40
Dimensions	A	30.5	32	34.8	34	36.8	40.1	35.8	38.6	41.9	46.2	37.9	40.6	43.9	48.3	51.3
	B	31	35.5	36.8	38.9	41.2	42.4	42.2	44.5	45.7	47.8	47.8	50	51.3	53.3	54.9

180
Cross



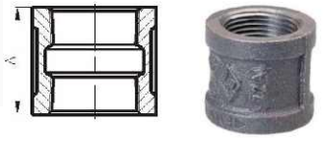
Size	Inch	1"	1-1/4"	1-1/2"	2"									
	mm	25	32	40	50									
Dimensions	A	38.1	44.5	49.3	57.2									

180R
Cross, Reducing



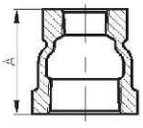
Size	Inch	1-1/4"x1"	1-1/2"x1"											
	mm	32x25	40x25											
Dimensions	A	40.1	41.9											
		42.4	45.7											

220
Socket



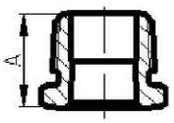
Size	Inch	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"							
	mm	15	20	25	32	40	50							
Dimensions	A	34	38.6	42.4	48.4	54.6	64.3							

240
Socket, Reducing



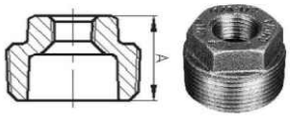
Size	Inch	1"x1/2"	1"x3/4"	1-1/4"x3/4"	1-1/4"x1"	1-1/2"x1"	1-1/2"x1-1/4"	2"x1"	2"x1-1/4"	2"x1-1/2"				
	mm	25x15	25x20	32x20	32x25	40x25	40x32	50x25	50x32	50x40				
Dimensions	A	42.9	42.9	53	52.3	58.7	58.7	71.4	71.4	71.4				

241
Bushing



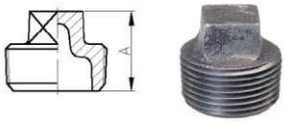
Size	Inch	1"x1/2"	1"x3/4"	1-1/4"x1"	1-1/2"x1"	1-1/2"x1-1/4"	2"x1-1/2"						
	mm	25x15	25x20	32x25	40x25	40x32	50x40						
Dimensions	A	25.4	25.4	27.4	29	29	31						

241N
Bushing



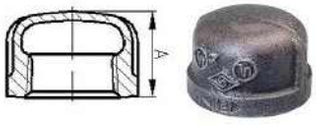
Size	Inch	2"x1"											
	mm	50x25											
Dimensions	A	32.8											

291
Plug



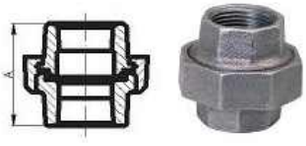
Size	Inch	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"						
	mm	15	20	25	32	40	50						
Dimensions	A	23.9	27.2	31.8	34.5	36.8	39.6						

300
Cap



Size	Inch	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"					
	mm	15	20	25	32	40	50	65					
Dimensions	A	22.1	24.6	39.5	32.5	33.8	36.8	43.2					

342
Union, conical joint, Brass to Iron seat



Size	Inch	1"	1-1/4"	1-1/2"	2"								
	mm	25	32	40	50								
Dimensions	A	52.3	57.4	61.2	69.9								

F E A T U R E S

FEATURES








UL Approved
(Under Writer Laboratories, USA)

(Under Writer Laboratories, USA)

UL is the trusted resource across the globe for product safety certification and compliance solutions. Benefitting a range of customers -from manufacturers and consumers to regulatory Bodies and code officials we've Tested products for public safety for more than a century.

FM Approved
(World's Best Agency for Fire Fighting Approval)

(World's Best Agency for Fire Fighting Approval)

Your customers demand quality, and your position in the marketplace depends on producing quality products. Ensure the quality of your products and protect your market share by obtaining third-party certification from FM Approvals.

The main features of these fittings are that these fittings are:

- UL Approved (Under Writer Laboratories, USA)
- FM Approved (World's Best Agency for Fire Fighting Approval)
- Threaded (Ease of Installation)
- Weldable (for double surety)
- Totally Safe & Leak Proof (Tested at Hydraulic pressure upto 500psi)
- Accepted World Wide
- 40 – 50% lower in cost than currently used Forged Steel Fittings

Accepted World Wide

Feature	Ductile Iron Fittings	Forged Fittings	Remarks
Internationally Used in Fire Fighting	Yes	No	Internationally Chosen Europe as well as USA
International Approval	Yes, UL & FM	No Approval	FM Approval is basic criterion for Fire Fighting Fittings
Ease of Use & Handling	High, Light Weight	Low, Extra Heavy	Installation Friendly
Test Pressure / Working Pressure	1500 psi/ 500 psi	1000 psi	Why use high pressure fittings when actual pressure is 300 psi or less
Cost / Price	Low, 30-40% cheaper than Forged Fittings	Very High	**Do, we need say more.**

COMPARISON CHART

Our **UL & FM Approved Ductile Iron Pipe Fittings for Fire Fighting**, are tested up to 500 psi, whereas actual pressure carried in Fire Fighting Lines is much lower.

Chart shows the comparison between Forged Fittings & Fire Fighting Fittings.

Latest & low cost alternative of Forged Fittings tested up to 1500psi

DUCTILE IRON GROOVED FITTINGS

MECH

1G
Rigid Coupling



1N
Flexible Coupling



1NH
Heavy Duty
Flexible Coupling



180
Cross



240
Grooved Concentric
Reducer



230N
Grooved Eccentric
Reducer With Female
Thread



321G
Adaptor Flange



321
Grooved Flange



110
22.5° Elbow



120
45° Elbow



90S
Light-duty
90° Elbow



130S
Light-duty
Tee



130
Tee



90
90° Elbow



90R
90° Reducing Elbow



300
Cap



131R
Reducing Tee



130R
Reducing Tee



3J
Mechanical Tee
Threaded Outlet



3G
Mechanical Tee
Grooved Outlet



105
11.25°
Elbow



3L
Small Mechanical
Tee U-bolt



180R
Reducing Cross



181
Reducing Cross



4G
Mechanical Cross
Grooved Outlet



4J
Mechanical Gross
Threaded Outlet



240N
Grooved Concentric
Reducer With
Female Thread



240W
Grooved Concentric
Reducer With
Male Thread



230
Grooved Eccentric
Reducer



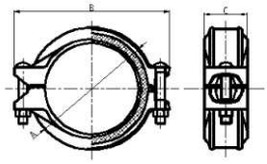
D.I. GROOVED FITTINGS

DUCTILE IRON GROOVED FITTINGS

MECH

1G Rigid Coupling

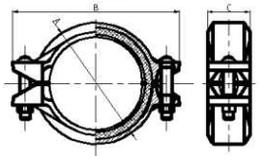




Nominal Size	mm/in	size	25	1	32	1¼	40	1½	50	2	65	2½	65	2½	80	3	100	4	100	4	125	5	125	5	125	5
Pipe O.D	mm/in		34	1.33	42	1.67	48	1.9	60	2.38	73	2.88	76.1	3	89	3.5	108	4.3	114	4.5	133	5.3	140	5.5	141	5.56
Working Pressure	PSI/MPa		500	3.45	500	3.45	500	3.5	500	3.45	500	3.45	500	3.5	500	3.5	500	3.5	500	3.5	450	3.1	450	3.1	450	3.1
Dimensions	A		60	2.35	67	2.64	73	2.9	85	3.35	99	3.9	102	4	116	4.6	141	5.6	146	5.8	167	6.6	172	6.8	172	6.77
	B		100	3.94	106	4.17	112	4.4	132	5.2	141	5.53	147	5.8	170	6.7	196	7.7	201	7.9	230	9.1	235	9.3	234	9.21
	C		45	1.75	46	1.81	46	1.8	47	1.85	45.5	1.79	45.5	1.8	47	1.9	52	2.1	52.5	2.1	53	2.1	52.5	2.1	52.5	2.07
Bolt Size	No.-Size	mm	2-3/8X55		2-3/8X55		2-3/8X55		2-3/8X55		2-3/8X55		2-3/8X55		2-1/2X70		2-1/2X70		2-1/2X70		2-5/8X85		2-5/8X85		2-5/8X85	

1N Flexible Coupling

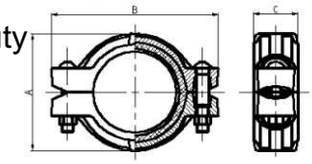




Nominal Size	mm/in	size	25	1	32	1¼	40	1½	50	2	65	2½	65	2½	80	3	100	4	100	4	125	5	125	5	125	5	150	6
Pipe O.D	mm/in		33.7	1.327	42.4	1.669	48.3	1.9	60.3	2.375	73	2.875	76.1	3	88.9	3.5	108	4.25	114.3	4.5	133	5.25	139.7	5.5	141.3	5.563	159	6.25
Working Pressure	PSI/MPa		500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	450	3.1	450	3.1	450	3.1	450	3.1
Dimensions	A	mm/in	55.5	2.19	65	2.56	72	2.83	84	3.31	98	3.86	101.5	4	115.5	4.55	140	5.51	145.5	5.73	163	6.42	170	6.69	170	6.69	190	7.48
	B	mm/in	94	3.7	104	4.09	109	4.29	130	5.12	143	5.63	148	5.83	165	6.5	198.5	7.82	197	7.75	232	9.13	238.5	9.39	232	9.13	258	10.15
	C	mm/in	42	1.65	45.5	1.79	45.5	1.79	45.5	1.79	45.5	1.79	45.5	1.79	45.5	1.79	50.8	2	50.8	2	51.5	2.03	51.5	2.03	50.8	2	53.5	2.1
Bolt Size	No.-Size	mm	2-3/8X55		2-3/8X55		2-3/8X55		2-3/8X55		2-3/8X55		2-3/8X55		2-1/2X70		2-1/2X70		2-1/2X70		2-5/8X80		2-5/8X80		2-5/8X80		2-5/8X85	

1NH Heavy Duty Flexible Coupling

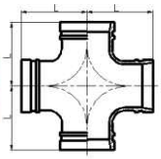




Nominal Size	mm/in	size		50	2	65	2½	80	3	100	4	125	5	150	6	150	6	200	8
Pipe O.D	mm/in			60	2.38	76	3	88.9	3.5	114	4.5	141	5.56	165	6.5	168	6.63	219	8.63
Working Pressure	PSI/MPa			750	5.18	750	5.2	750	5.2	750	5.2	700	4.83	700	4.83	700	4.83	600	4.14
Dimensions		A	mm/in	92	3.6	104	4.1	123	4.8	153	6	181	7.13	207	8.15	210	8.27	269	10.6
		B	mm/in	134	5.28	155	6.1	173	6.8	215	8.5	250	9.85	280	11	285	11.2	355	14
		C	mm/in	46	1.81	46	1.8	47	1.9	51	2	52	2.05	52	2.05	52	2.05	62	2.44
Bolt/Nut	No.-Size	mm		2-1/2X75		2-1/2X75		2-1/2X75		2-5/8X85		2-3/4X115		2-3/4X115		2-3/4X115		2-7/8X140	

180 Cross

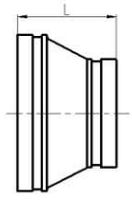




Nominal	Size	mm/in	32	1¼	40	1½	50	2	65	2½	65	2½	80	3	100	4	100	4	125	5	125	5	150	6	150	6	150	6
Pipe	O.D	mm/in	42.4	1.66	48.3	1.9	60.3	2.375	73	2.875	76.1	3	88.9	3.5	108	4.25	114.3	4.5	139.7	5.5	141.3	5.563	159	6.25	165.1	6.5	168.3	6.625
Working Pressure	PSI/MPa		500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45
Dimensions	L	mm/in	69.85	2.75	69.85	2.75	82.55	3.25	95.25	3.75	101.5	4	108	4.25	127	5	127	5	139.7	5.5	139.7	5.5	165.1	6.5	165.1	6.5	165.1	6.5

240 Grooved Concentric Reducer

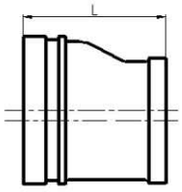




Nominal	Size	mm/in	32X25	1¼X1	40X32	1½X1¼	50X32	2X1¼	50X40	2X1½	65X50	2½X2	65X40	2½X1½	65X50
Pipe	O.D.	mm/in	42.4X33.7	1.660X1.315	48.3X42.4	1.900X1.660	60.3X42.4	2.375X1.660	60.3X48.3	2.375X1.900	73.0X60.3	2.875X2.375	76.1X48.3	3.000X1.900	76.1X60.3
Working Pressure	PSI/MPa		500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500
Dimensions	L	mm/in	64	2.5	64	2.5	64	2.5	64	2.5	64	2.5	64	2.5	64

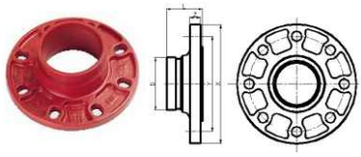
230N Grooved Eccentric Reducer With Male Thread





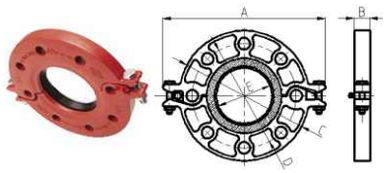
Nominal Size	mm/in	size		100X65	108.0X2 1/2	100X65	4X2 1/2	125X80	5X3	150X80	6X3
Pipe	O.D.	mm/in		108.0X76.1	4.250X3.000	114.3X76.1	4.500X3.000	139.7X88.9	5.500X3.500	165.1X88.9	6.500X3.500
Working	Pressure	PSI/MPa		500	3.45	500	3.45	500	3.45	500	3.45
Dimenension		L	mm/in	102	4	102	4	127	5	140	5.5

321G Adaptor Flange



Nominal Size	mm/in	size	40	1½	50	2	65	2½	65	76.1	80	3	100	108	100	4	125	133	125	139.7	125	15	150	159.1	150	165.1	150	6
Pipe O.D	mm/in		48.3	1.9	60.3	2.375	73	2.875	76.1	3	88.9	3.5	108	4.25	114.3	4.5	133	5.25	139.7	5.5	141.3	5.563	159	6.25	165.1	6.5	168.3	6.625
Working Pressure	PSI/MPa		225	1.6	225	1.6	225	1.6	225	1.6	225	1.6	225	1.6	225	1.6	225	1.6	225	1.6	225	1.6	225	1.6	225	1.6	225	1.6
Dimensions	L	mm/in	60.3	2.375	60.3	2.375	70	2.756	70	2.756	70	2.756	60.3	2.375	76	2.992	60.3	2.375	89	3.5	89	3.5	65.1	2.563	89	3.5	89	3.5
	X	mm	150	5.9	152.5	6	185	7.28	185	7.28	200	7.87	220	8.66	229	9	250	9.84	252	9.921	252	9.921	280	11	280	11	280	11
	Y	mm	110	4.33	125	4.92	145	5.7	145	5.7	160	6.3	180	7.09	180	7.09	210	8.27	210	8.27	210	8.27	240	9.45	240	9.45	240	9.45
	Z	mm	16	0.63	18	0.71	16	0.63	16	0.63	16	0.63	18	0.71	16	0.63	18	0.71	21	0.83	21	0.83	20	0.78	24	0.94	24	0.94
Bolt/Nut	No.-Size	mm	4-M16		4-M16		4-M16		4-M16		8-M16		8-M16		8-M16		8-M16		8-M16		8-M16		8-M20		8-M20		8-M20	

321 Grooved Flange



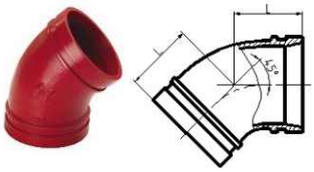
Nominal Size	mm/in	size	40	1½	50	2	65	2½	65	76.1	80	3	100	108	100	4	125	139.7	150	165.1	165	6	200	8	250	10	300	12
Pipe O.D	mm/in		48.3	1.9	60.3	2.375	73	2.875	76.1	3	88.9	3.5	108	4.25	114.3	4.5	139.7	5.5	165.1	6.5	168.3	6.625	219.1	8.625	273	10.75	323.9	12.75
Working Pressure	PSI/MPa		300	2.07	300	2.07	300	2.07	300	2.07	300	2.07	300	2.07	300	2.07	300	2.07	300	2.07	300	2.07	300	2.07	300	2.07	300	2.07
Dimensions	A	mm/in	195	7.68	220	8.66	235	9.25	235	9.25	252	9.92	280	11.02	280	11.02	320	12.6	346	13.62	346	13.62	414.3	16.31	481.2	18.94	530.5	20.88
	B	mm/in	24	0.95	24	0.95	24	0.95	24	0.95	24	0.95	25.5	1	25.5	1	25.5	1	25.5	1	25.5	1	30	1.18	30.3	1.19	30.3	1.19
	C	mm/in	150	5.9	165	6.5	182	7.16	185	7.28	200	7.87	220	8.66	229	9	254	10	280	11	280	11	341.4	13.44	405.6	15.97	460	18.11
	D	mm/in	110	4.33	125	4.92	145	5.71	145	5.71	160	6.3	180	7.09	180	7.09	210	8.27	240	9.45	240	9.45	295	11.61	355	13.98	410	16.14
	E	mm/in	45.4	1.78	57.5	2.26	69.8	2.74	72.7	2.86	85.5	3.37	104.5	4.11	110.5	4.35	135.5	5.33	160.8	6.33	164.3	6.47	214.9	8.46	268.9	10.59	318.9	12.56
Bolt/Nut	No.-SIZE		2-M10X50		2-M10X50		2-M10X50		2-M10X50		2-M10X50		2-M12X55		2-M12X55		2-M12X65		2-M12X65		2-M12X65		2-M12X65		2-3/8X70		2-3/8X70	

110 22.5⁰ Elbow



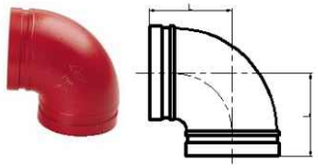
Nominal	Size	mm/in	65	2½	80	3	100	4	100	4	125	5	150	6	150	6	150	6	200	8
Pipe	O.D	mm/in	76.1	3	88.9	3.5	108	4.25	114.3	4.5	139.7	5.5	159	6.25	165.1	6.5	168.3	6.625	219.1	8.625
Working Pressure	PSI/MPa		500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45
Dimensions	L	mm/in	51	2.01	57	2.24	73	2.87	73	2.87	79	3.11	79	3.11	79	3.11	79	3.11	98	3.86

120 45⁰ Elbow



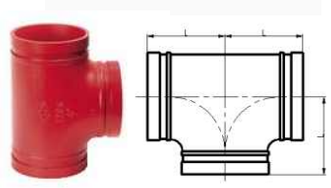
Nominal	Size	mm/in	25	1	32	1¼	40	1½	50	2	65	2½	65	2½	80	3	100	4	100	4	125	5	125	5	125	5	150	6	150
Pipe	O.D	mm/in	33.7	1.315	42.4	1.66	48.3	1.9	60.3	2.375	73	2.875	76.1	3	88.9	3.5	108	4.25	114.3	4.5	133	5.25	139.7	5.5	141.3	5.563	159	6.25	165.1
Working Pressure	PSI/MPa		500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45
Dimensions	L	mm/in	44.45	1.75	44.45	1.75	44.45	1.75	50.8	2	57.15	2.25	57.15	2.25	63.5	2.5	80	3.15	76.2	3	82.5	3.25	82.5	3.25	82.5	3.25	95	3.74	89

90S Light-duty 90⁰ Elbow



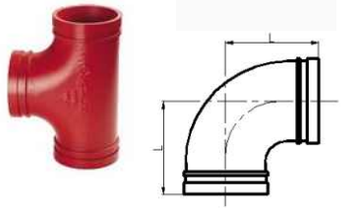
Nominal	Size	mm/in	50	2	65	2½	65	2½	80	3	100	4	100	4	125	5	150	6	150	6	150	6	200	8	200	8
Pipe	O.D.	mm/in	60.3	2.375	73	2.875	76.1	3	88.9	3.5	108	4.25	114.3	4.5	139.7	5.5	159	6.25	165.1	6.5	168.3	6.625	216.3	8.516	219.1	8.625
Working Pressure	Psi/Mpa		300	2.07	300	2.07	300	2.07	300	2.07	300	2.07	300	2.07	300	2.07	300	2.07	300	2.07	300	2.07	300	2.07	300	2.07
90S Light-duty 90 Elbow	L		69.85	2.75	76.2	3	76.2	3	85.85	3.38	101.6	4	101.6	4	123.95	4.88	139.7	5.5	139.7	5.5	139.7	5.5	174.5	6.87	174.5	6.87
130S Light-duty Tee	L		69.85	2.75	76.2	3	76.2	3	85.85	3.38	101.6	4	101.6	4	123.95	4.88	139.7	5.5	139.7	5.5	139.7	5.5	174.5	6.87	174.5	6.87

130S Light-duty Tee



Nominal	Size	mm/in	50	2	65	2½	65	2½	80	3	100	4	100	4	125	5	150	6	150	6	150	6	200	8	200	8
Pipe	O.D.	mm/in	60.3	2.375	73	2.875	76.1	3	88.9	3.5	108	4.25	114.3	4.5	139.7	5.5	159	6.25	165.1	6.5	168.3	6.625	216.3	8.516	219.1	8.625
Working Pressure	Psi/Mpa		300	2.07	300	2.07	300	2.07	300	2.07	300	2.07	300	2.07	300	2.07	300	2.07	300	2.07	300	2.07	300	2.07	300	2.07
90S Light-duty 90 Elbow	L		69.85	2.75	76.2	3	76.2	3	85.85	3.38	101.6	4	101.6	4	123.95	4.88	139.7	5.5	139.7	5.5	139.7	5.5	174.5	6.87	174.5	6.87
130S Light-duty Tee	L		69.85	2.75	76.2	3	76.2	3	85.85	3.38	101.6	4	101.6	4	123.95	4.88	139.7	5.5	139.7	5.5	139.7	5.5	174.5	6.87	174.5	6.87

130 Tee



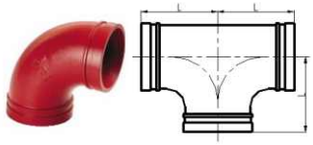
Nominal	Size	mm/in	25	1	32	1¼	40	1½	50	2	65	2½	65	2½	80	3	100	4	125	5	125	5	125	5	150	6	150	6
Pipe	O.D.	mm/in	33.7	1.315	42.4	1.66	48.3	1.9	60.3	2.375	73	2.875	76.1	3	88.9	3.5	114.3	4.5	133	5.25	139.7	5.5	141.3	5.563	165.1	6.5	168.3	6.625
Working Pressure	PSI/MPa		500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45
90 90 Elbow	L		57.15	2.25	69.85	2.75	69.85	2.75	82.55	3.25	95.25	3.75	95.25	3.75	107.95	4.25	127	5	122	4.8	139.7	5.5	139.7	5.5	165.1	6.5	165.1	6.5
130 Tee	L		57.15	2.25	69.85	2.75	69.85	2.75	82.55	3.25	95.25	3.75	95.25	3.75	107.95	4.25	127	5	122	4.8	139.7	5.5	139.7	5.5	165.1	6.5	165.1	6.5

D.I. GROOVED FITTINGS

DUCTILE IRON GROOVED FITTINGS

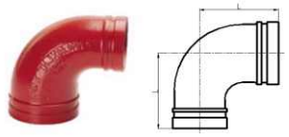
MECH

90
90⁰ Elbow



Nominal	Size	mm/in	25	1	32	1¼	40	1½	50	2	65	2½	65	2½	80	3	100	4	125	5	125	5	125	5	150	6	150	6
Pipe	O.D.	mm/in	33.7	1.315	42.4	1.66	48.3	1.9	60.3	2.375	73	2.875	76.1	3	88.9	3.5	114.3	4.5	133	5.25	139.7	5.5	141.3	5.563	165.1	6.5	168.3	6.625
Working Pressure	PSI/MPa		500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45
90 90 Elbow		L	57.15	2.25	69.85	2.75	69.85	2.75	82.55	3.25	95.25	3.75	95.25	3.75	107.95	4.25	127	5	122	4.8	139.7	5.5	139.7	5.5	165.1	6.5	165.1	6.5
130 Tee		L	57.15	2.25	69.85	2.75	69.85	2.75	82.55	3.25	95.25	3.75	95.25	3.75	107.95	4.25	127	5	122	4.8	139.7	5.5	139.7	5.5	165.1	6.5	165.1	6.5

90R
90⁰ Reducing Elbow



Nominal	Size	mm/in	80X65	3X2 1/2	100X65	4X2 1/2	100X80	4X3	150X100	6X4	150X100	6X4
Pipe	O.D.	mm/in	88.9X76.1	3.500X3.000	114.3X76.1	4.500X3.000	114.3X88.9	4.500X3.500	165.1X114.3	6.500X4.500	168.3X114.3	6.625X4.500
Working Pressure	PSI/MPa		500	3.45	500	3.45	500	3.45	500	3.45	500	3.45
Dimensions	L	mm/in	108	4.25	127	5	127	5	165	6.5	165	6.5

105
11.25⁰ Elbow



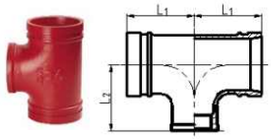
Nominal	Size	mm/in	50	2	65	21-Feb	80	3	100	4	100	4	125	5	150	6	150	6	150	6	200	8
Pipe	O.D	mm/in	60.3	2.375	76.1	3	88.9	3.5	108	4.25	114.3	4.5	139.7	5.5	159	6.25	165.1	6.5	168.3	6.625	219.1	8.625
Working Pressure	PSI/MPa		500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45
Dimensions mm/in		L	35	1.38	38	1.506	38	1.5	44	1.73	44	1.73	51	2.01	51	2.01	51	2.01	51	2.01	51	2.01

300
Cap



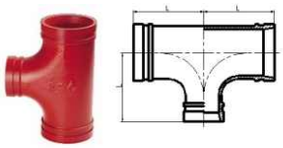
Nominal	Size	mm/in	25	1	32	1¼	40	1½	50	2	65	2½	65	2½	80	3	100	4	100	4	25	5	125	5	125	5	150	6	150	6	150
Pipe	O.D	mm/in	33.7	1.315	42.4	1.66	48.3	1.9	60.3	2.375	73	2.875	76.1	3	88.9	3.5	108	4.25	114.3	4.5	133	5.25	139.7	5.5	141.3	5.563	159	6.25	165.1	6.5	168.3
Working Pressure	PSI/MPa		500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500
Dimensions	L	mm/in	22.1	0.87	25.5	1	25.5	1	25.5	1	25.5	1	25.5	1	25.5	1	27	1.06	27	1.06	27	1.06	27	1.06	27	1.06	27	1.06	27	1.06	27

131R
Reducing Tee



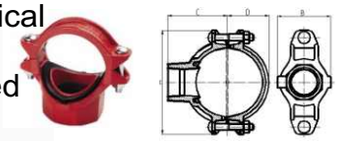
Nominal	Size	mm/in	50¡Á25	2¡Á1	50¡Á32	2¡Á1¼	50¡Á40	2¡Á1½	65¡Á25	2½¡Á1	65¡Á32	2½¡Á1¼	65¡Á25	2½¡Á1	65¡Á32
Pipe	O.D	mm/in	60.3¡Á33.7	2.375¡Á1.315	60.3¡Á42.4	2.375¡Á1.660	60.3¡Á48.3	2.375¡Á1.900	73.0¡Á33.7	2.875¡Á1.315	73.0¡Á42.4	2.875¡Á1.660	76.1¡Á33.7	3.000¡Á1.315	76.1¡Á42.4
Working Pressure	PSI/MPa		300	2.07	300	2.07	300	2.07	300	2.07	300	2.07	300	2.07	300
Dimensions	mm/in	L1	82.5	3.25	82.5	3.25	82.5	3.25	76	2.99	76	2.99	76	2.99	95
		L2	82.5	3.25	82.5	3.25	82.5	3.25	76	2.99	76	2.99	76	2.99	95

130R
Reducing Tee



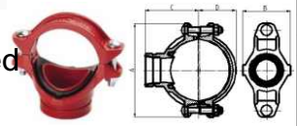
Nominal	Size	mm/in	50X25	2X1	50¡Á40	2¡Á1½	65¡Á40	2½¡Á1½	65¡Á50	2½¡Á2	65¡Á32	2½¡Á1¼	65¡Á40	2½¡Á1½
Pipe	O.D	mm/in	60.3X33.7	2.375X1.315	60.3¡Á48.3	2.375¡Á1.900	73.0¡Á48.3	2.875¡Á1.900	73.0¡Á60.3	3.000¡Á2.375	76.1¡Á42.4	3.000¡Á1.660	76.1¡Á48.3	3.000¡Á1.900
Working	Pressure	PSI/MPa	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45
Dimensions	L	mm/in	82.5	3.25	82.5	3.25	101.5	4	101.5	4	101.5	4	101.5	4

3J
Mechanical Tee Threaded Outet



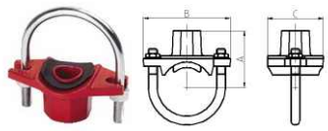
Nominal	Size	mm/in	50¡Á15	2¡Á½	50¡Á20	2¡Á¾	50¡Á25	2¡Á1	50¡Á32	2¡Á1¼	50¡Á40	2¡Á1½	65¡Á20	2½¡Á¾
Pipe	O.D	mm/in	60.3¡Á21.3	2.375¡Á0.825	60.3¡Á26.9	2.375¡Á1.050	60.3¡Á33.7	2.375¡Á1.315	60.3¡Á42.4	2.375¡Á1.660	60.3¡Á48.3	2.375¡Á1.900	73.0¡Á26.9	2.875¡Á1.050
Working Pressure	PSI/MPa		300	2.07	300	2.07	300	2.07	300	2.07	300	2.07	300	2.07
Hole Dia	mm/in	+1.6,0/+0.063,0	38	1.5	38	1.5	38	1.5	45	1.75	45	1.75	38	1.5
Dimensions mm/in		³ß´ç	116	4.57	116	4.57	116	4.57	116	4.57	116	4.57	144	5.67
			68	2.68	68	2.68	68	2.68	76	2.99	76	2.99	71	2.76
			60	2.36	60	2.36	60	2.36	65	2.56	65	2.56	75	2.72
			39	1.54	39	1.54	39	1.54	39	1.54	39	1.54	49	1.93
Bolt Size			3/8¡Á55		3/8¡Á55		3/8¡Á55		3/8¡Á55		3/8¡Á55		1/2¡Á60	

3G
Mechanical Tee Grooved Outet



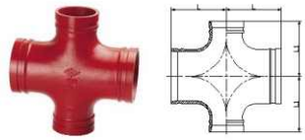
Nominal	Size	mm/in	50¡Á32	2¡Á1¼	50¡Á40	2¡Á1½	65¡Á32	2½¡Á1¼	65¡Á25	76.1¡Á1	65¡Á32	76.1¡Á1¼	65¡Á40	76.1¡Á1½	80¡Á25	3¡Á1	80¡Á32
Pipe	O.D	mm/in	60.3¡Á42.4	2.375¡Á1.660	60.3¡Á48.3	2.375¡Á1.900	73.0¡Á42.4	2.875¡Á1.660	76.1¡Á33.7	3.000¡Á1.315	76.1¡Á42.4	3.000¡Á1.660	76.1¡Á48.3	3.000¡Á1.900	88.9¡Á33.7	3.500¡Á1.315	88.9¡Á42.4
Working Pressure	PSI/MPa		300	2.07	300	2.07	300	2.07	300	2.07	300	2.07	300	2.07	300	2.07	300
Hole Dia	mm/in	+1.6,0/+0.063,0	45	1.75	45	1.75	51	2	38	1.5	51	2	51	2	38	1.5	51
Dimensions mm/in		³ß´ç	116	4.57	116	4.57	144	5.67	137	5.39	137	5.39	137	5.39	152	5.98	152
			76	2.99	76	2.99	84.5	3.33	71	2.8	84.5	3.33	84.5	3.33	72.5	2.85	85.5
			69.5	2.74	69.5	2.74	75	2.95	78	3.07	78	3.07	78	3.07	84.5	3.33	84.5
			39	1.54	39	1.54	49	1.93	49.5	1.95	49.5	1.95	49.5	1.95	56.5	2.22	56.5
Bolt Size			3/8¡Á55		3/8¡Á55		1/2¡Á60		1/2¡Á75		1/2¡Á75		1/2¡Á75		1/2¡Á75		1/2¡Á

3L
Small Mechanical Tee U-bolt



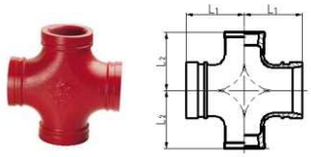
Nominal Size	mm/in	size	40	1½	50	2	65	2½	65	76.1	80	3	100	108	100	4	125	133	125	139.7	125	15	150	159.1	150	165.1	150	6
Pipe O.D	mm/in		48.3	1.9	60.3	2.375	73	2.875	76.1	3	88.9	3.5	108	4.25	114.3	4.5	133	5.25	139.7	5.5	141.3	5.563	159	6.25	165.1	6.5	168.3	6.625
Working Pressure	PSI/MPa		225	1.6	225	1.6	225	1.6	225	1.6	225	1.6	225	1.6	225	1.6	225	1.6	225	1.6	225	1.6	225	1.6	225	1.6	225	1.6
Dimensions	L	mm/in	60.3	2.375	60.3	2.375	70	2.756	70	2.756	70	2.756	60.3	2.375	76	2.992	60.3	2.375	89	3.5	89	3.5	65.1	2.563	89	3.5	89	3.5
	X	mm	150	5.9	152.5	6	185	7.28	185	7.28	200	7.87	220	8.66	229	9	250	9.84	252	9.921	252	9.921	280	11	280	11	280	11
	Y	mm	110	4.33	125	4.92	145	5.7	145	5.7	160	6.3	180	7.09	180	7.09	210	8.27	210	8.27	210	8.27	240	9.45	240	9.45	240	9.45
	Z	mm	16	0.63	18	0.71	16	0.63	16	0.63	16	0.63	18	0.71	16	0.63	18	0.71	21	0.83	21	0.83	20	0.78	24	0.94	24	0.94
Bolt/Nut	No.-Size	mm	4-M16		4-M16		4-M16		4-M16		8-M16		8-M16		8-M16		8-M16		8-M16		8-M16		8-M20		8-M20		8-M20	

180R
Reducing Cross



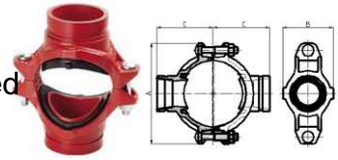
Nominal	Size	mm/in	65¡Á50	2½¡Á2	80¡Á50	3¡Á2	100¡Á50	4¡Á2	100¡Á80	4¡Á3	125¡Á100	5¡Á4	150¡Á50	6¡Á2
Pipe	O.D	mm/in	76.1¡Á60.3	3.000¡Á2.375	88.9¡Á60.3	3.500¡Á2.375	114.3¡Á60.3	4.500¡Á2.375	114.3¡Á88.9	4.500¡Á3.500	139.7¡Á114.3	5.500¡Á4.500	165.1¡Á60.3	6.500¡Á2.375
Working	Pressure	PSI/MPa	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45
Dimensions	L	mm/in	101.5	4	108	4.25	127	5	127	5	140	5.5	165	6.5
Dimensions	L1	mm/in	101.5	4	108	4.25	127	5	127	5	140	5.5	165	6.5

181
Reducing Cross



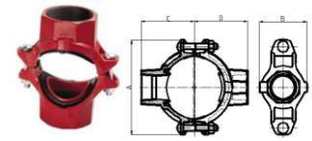
Nominal	Size	mm/in	65¡Á50	2½¡Á2	80¡Á32	3¡Á1¼	80¡Á40	3¡Á1½	80¡Á50	3¡Á2	100¡Á25	4¡Á1	100¡Á32	4¡Á1¼
Pipe	O.D	mm/in	76.1¡Á60.3	3.000¡Á2.375	88.9¡Á42.4	3.500¡Á1.660	88.9¡Á48.3	3.500¡Á1.900	88.9¡Á60.3	3.500¡Á2.375	114.3¡Á33.7	4.500¡Á1.315	114.3¡Á42.4	4.500¡Á1.660
Working Pressure	PSI/MPa		300	2.07	300	2.07	300	2.07	300	2.07	300	2.07	300	2.07
Dimensions	mm/in	L1	101.5	4	108	4.25	108	4.25	108	4.25	76	2.99	76	2.99
		L2	101.5	4	108	4.25	108	4.25	108	4.25	88	3.47	88	3.47

4G
Mechanical Cross Grooved Outlet



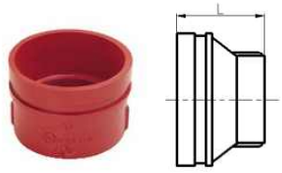
Nominal	Size	mm/in	65¡Á25	76.1¡Á1	65¡Á32	76.1¡Á1¼	65¡Á40	76.1¡Á1½	80¡Á25	3¡Á1	80¡Á32	3¡Á1¼	80¡Á40	3¡Á1½
Pipe	O.D	mm/in	76.1¡Á33.7	3.000¡Á1.315	76.1¡Á42.4	3.000¡Á1.660	76.1¡Á48.3	3.000¡Á1.900	88.9¡Á33.7	3.500¡Á1.315	88.9¡Á42.4	3.500¡Á1.660	88.9¡Á48.3	3.500¡Á1.900
Working Pressure	PSI/MPa		300	2.07	300	2.07	300	2.07	300	2.07	300	2.07	300	2.07
Hole Dia	mm/in	+1.6,0/+0.063,0	38	1.5	51	2	51	2	38	1.5	51	2	51	2
Dimensions mm/in		A	137	5.39	137	5.39	137	5.39	152	5.98	152	5.98	152	5.98
		B	71	2.8	84.5	3.33	84.5	3.33	72.5	2.85	85.5	3.37	85.5	3.37
		C	78	3.07	78	3.07	78	3.07	84.5	3.33	84.5	3.33	84.5	3.33
		D	49.5	1.95	49.5	1.95	49.5	1.95	56.5	2.22	56.5	2.22	56.5	2.22
Bolt Size			1/2¡Á75		1/2¡Á75		1/2¡Á75		1/2¡Á75		1/2¡Á75		1/2¡Á75	

4J
Mechanical Gross Threaded Outlet



Nominal	Size	mm/in	50¡Á25	2¡Á1	50¡Á32	2¡Á1¼	50¡Á32¡Á25	2¡Á1½¡Á1	50¡Á40	2¡Á1½	50¡Á40¡Á25	2¡Á1½¡Á1	65¡Á25	2½¡Á1	65¡Á32	2½¡Á1¼
Pipe	O.D	mm/in	60.3¡Á33.7	2.375¡Á1.315	60.3¡Á42.4	2.375¡Á1.660	60.3¡Á42.4¡Á33.7	2.375¡Á1.660¡Á1.315	60.3¡Á48.3	2.375¡Á1.900	60.3¡Á48.3¡Á33.7	2.375¡Á1.900¡Á1.315	73.0¡Á33.7	2.875¡Á1.315	73.0¡Á42.4	2.875¡Á1.660
Working Pressure	PSI/MPa		300	2.07	300	2.07	300	2.07	300	2.07	300	2.07	300	2.07	300	2.07
Hole Dia	mm/in	+1.6,0/+0.063,0	38	1.5	45	1.75	45/38	1.75/1.50	45	1.75	45/38	1.75/1.50	38	1.5	51	2
Dimensions mm/in		A	116	4.57	116	4.57	116	4.57	116	4.57	116	4.57	144	5.67	144	5.67
		B	68	2.68	76	2.99	76	2.99	76	2.99	76	2.99	70	2.76	84.5	3.33
		C	60	2.36	65	2.56	65	2.56	65	2.56	65	2.56	69	2.72	73	2.87
		D	60	2.36	65	2.56	60	2.36	65	2.56	60	2.36	69	2.72	73	2.87
Bolt Size			3/8¡Á55		3/8¡Á55		3/8¡Á55		3/8¡Á55		3/8¡Á55		1/2¡Á60		1/2¡Á60	

240N
Grooved Concentric Reducer With Female Thread



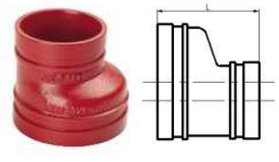
Nominal Size	GroovedXThreaed	mm/in	50X15	2X1/2	50X20	2X3/4	50X25	2X1	50X32	2X1¼	50X40	2X1½	65X25	2½X1
Pipe	O.D.	mm/in	60.3X21.3	2.375X0.825	60.3X26.9	2.375X1.05	60.3X33.7	2.375X1.315	60.3X42.4	2.375X1.660	60.3X48.3	2.375X1.900	73.0X33.7	2.875X1.315
Working Pressure	PSI/MPa		500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45
Dimenension	L	mm/in	64	2.5	64	2.5	64	2.5	64	2.5	64	2.5	64	2.5

240W
Grooved Concentric Reducer With Male Thread



Nominal Size	mm/in	size		65X50	$2^1/_2$X2	65X50	$2^1/_2$X2	80X25	3X1	100X50	4X2	200X150	8X6
Pipe	O.D.	mm/in		73.0X60.3	2.875X2.375	76.1X60.3	3.000X2.375	88.9X33.7	3.500X1.315	114.3X60.3	4.500X2.375	219.1X168.3	8.625X6.625
Working Pressure	PSI/MPa			500	3.45	500	3.45	500	3.45	500	3.45	500	3.45
Dimenension	L	mm/in		64	2.5	64	2.5	64	2.5	76	3	127	5

230
Grooved Eccentric Reducer



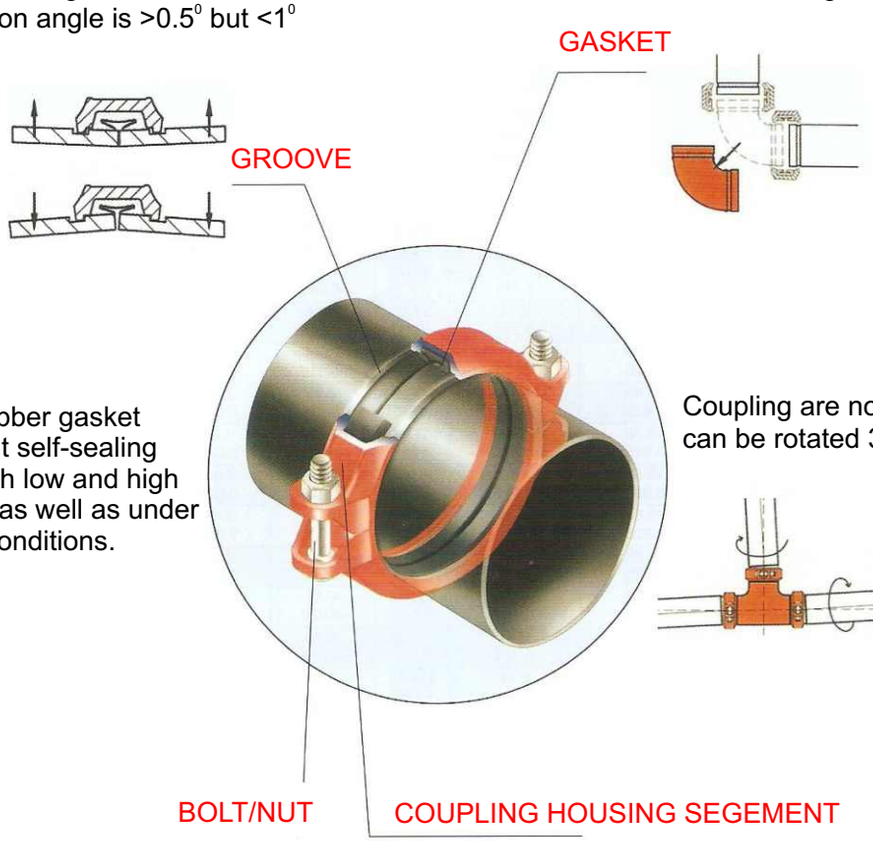
Nominal Size	mm/in		80X50	3X2	100X65	$4X2^1/_2$	100X80	4X3	100X65	$4X2^1/_2$	100X80	4X3	125X100	5X4	150X100	6X4	150X100
Pipe	O.D.	mm/in	88.9X60.3	3.500X2.375	108.0X76.1	4.250X3.000	108.0X88.9	4.250X3.500	114.3X76.1	4.500X3.000	114.3X88.9	4.500X3.500	139.7X114.3	5.500X4.500	159.0X108.0	6.250X4.250	159.0X114.3
Working Pressure	PSI/MPa		500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500	3.45	500
Dimensions	L	mm/in	89	3.5	102	4	102	4	102	4	102	4	127	5	140	5.5	140

FLEXIBLE COUPLING

MECH

A flexible coupling accommodates pipe deflection and or non-alignment as below: if nominal diameter <DN200, deflection angle is .>1^0 ; If nominal diameter > Dn200, deflection angle is >0.5^0 but <1^0

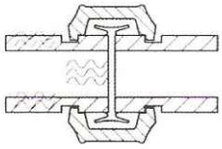
With the removal of just a few bolts, you can easily access the system for cleaning, maintenance, changes or system expansion.



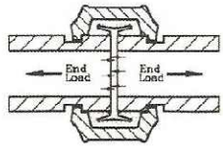
The C-shaped rubber gasket provides excellent self-sealing capabilities in both low and high pressure service as well as under certain vacuum conditions.

Coupling are non-directive and pipe can be rotated 360^0 during installation.

The design and construction of the coupling with elastomeric gaskets can provide significant noise and vibration absorption as well as seismic stress.



Coupling keys engage the full circumference of the grooves and provide significant pressure and end load restraint against pipe movement from internal and external forces.

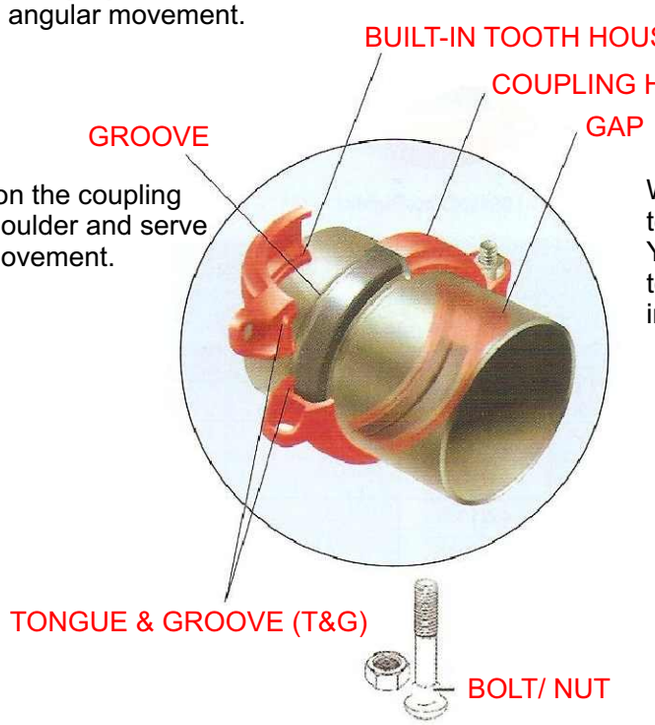


RIGID COUPLING

MECH

The T&G mechanism in combination with a slightly shortened key diameter provides a mechanical and frictional interlock resulting in a rigid joint which reduces undesired angular movement.

The T&G mechanism features a slight offset at the foot of the coupling halves which serve to protect the gasket from exposure.

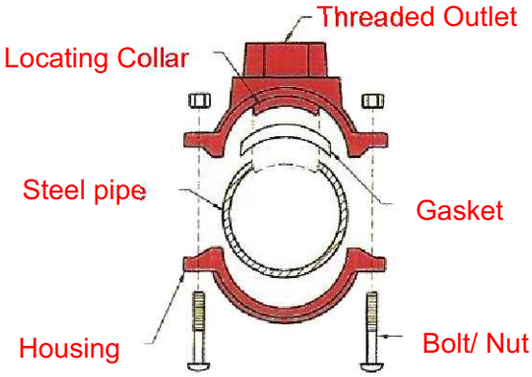


The built-in teeth on the coupling grip the groove shoulder and serve to reduce linear movement.

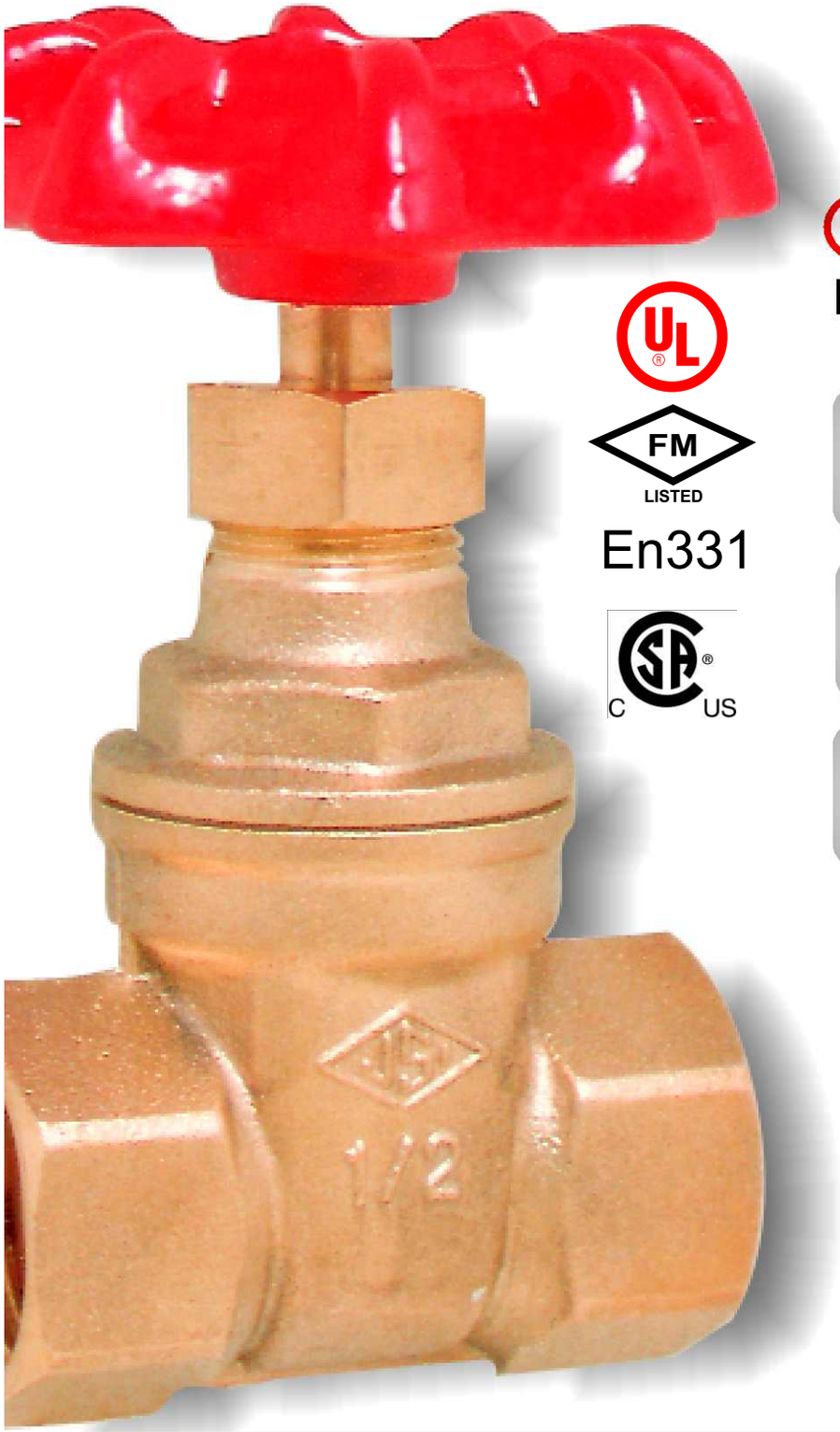
With the T&G style coupling no metal-to-metal contact of the bolt pads is required. You will normally see a 1/16” - 1/8” (1.6mm to 3.2mm) gap between the bold pads when installed.

The Mechanical Tee (3J, 3G, 3L) provide for a fast and easy grooved or threaded branch outlet and eliminate the need for welding or the use of a reducing tee and couplings. Simply cut a hole to the specified size at the expected location and fasten the mechanical tee to the pipe with the nuts and bolts provided. As the housing bolts are tightened, the pressure responsive gasket forms a leak-tight seal.





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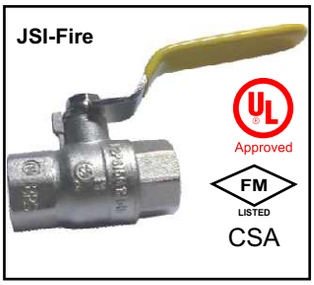
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FORGED BRASS VALVES ZHIQING JSI®

FEMALE UL/FM/CSA BALL VALVE



JSI Fire Brass Ball Valves are approved in accordance to the latest Euro Norms EN: 331:1998. **Approved by UL/FM/ CSA**. Suitable for Water, Steam and Vacuum.

Can be used for Domestic and Commercial, Plumbing, Industrial Application, Sanitary, Pneumatic systems, Waterworks, Oil pipelines, Hot water services, Condensate services, Petrol & other hydrocarbon services and especially **FIRE FIGHTING**

Main Features :-

Body : Forged Brass, **Ball :** Forged brass, machined to mirror smooth finish, Hard Chrome plated, **Seat :** Pure PTFE conical arc cut, **Stem Seal :** Double "O" Ring of Viton Rubber (Silicon Free), **Nut :** Self locking Nyloc nut.

FORGED FILTER BALL VALVE



JSI-02 Forged Filter Ball Valves are manufactured in accordance with ISO 9001 and can be used for ; water works, heating systems, Sanitary, pneumatic systems, Protecting and expanding installation for the filteration of fluid, collecting impurities, sand, rust, metal shaving, assuring total protection of the system.

Main Features:-

***M.O.P.** : 20 bars (300 psi), ***M.O.T.** : Fluid at - 20°C to 150°C, **Test Pressure** : PN - 16, **Threading** : Standard female parallel threads to ISO 7/1, **Material : Body** : Hot pressed brass, nickel plated, **Ball** : Brass, machined to a micro - smooth finish, hard chrome plated, **Handle** : Hard duraluminium alloy A1 - Si 12, **Gaskets** : Conical rings in P.T.F.E. pure Teflon, **Strainer** : Stainless steel 18/8 Ø perforations 0.65 mm, **Vacuum** : 10 Torr., **Sizes :** 1/2" to 2".

FEMALE GAS BALL VALVE



JSI-03 Gas Ball Valves are approved in accordance to the latest Euro Norms EN : 331:1998. **Approved by Gujrat Gas.** Suitable for Water, Steam, Vacuum, Gas distribution such as Town Gas, Natural Gas, LPG etc. Can be used for Domestic and Commercial, Plumbing, Industrial Application, Agricultural requirements and heating, sanitary, pneumatic systems, waterworks, oil pipelines, hotwater services, condensate services, petrol and other hydrocarbon services etc.

Main Features :-

Body : Forged Brass, **Ball :** Forged brass, machined to mirror smooth finish, Hard Chrome plated, **Seat :** Pure PTFE conical arc cut, **Stem Seal :** Double "O" Ring of Viton Rubber (Silicon Free), **Nut :** Self locking Nyloc nut, BSP Female Threads. The sealing dimensions and ball diameter allow a blind operating angle ⩾ 10°, **On Request :** American NPT threads ANSI B1.20.1, **Working Pressure :** Water 20 bar, Gas 10 bar, Vacuum 10^{-3} Torr. **Working Temperature :** Fluid at -20°C to +150°C, **Gas :** -20°C to +60°C, **Sizes :** 1/4" to 2".

FEMALE GAS BALL VALVE (WITH BUTTERFLY HANDLE)



JSI-04 Gas Ball Valves are approved in accordance to the latest Euro Norms EN : 331:1998, **Approved by GAIL INDIA & IGL.** Suitable for Water, Steam, Vacuum, Gas distribution such as Town Gas, Natural Gas, LPG etc. Can be used for Domestic and Commercial, Plumbing, Industrial Application, Agricultural requirements and heating, sanitary, pneumatic systems, waterworks, oil pipelines, hot water services, and other hydrocarbon services etc.

Main Features :-

Body : Forged Brass, **Ball :** Forged brass, machined to mirror smooth finish, Hard Chrome plated, **Seat :** Pure PTFE conical arc cut, **Stem Seal :** Double "O" Ring of Viton Rubber (Silicon Free), **Nut :** Self locking Nyloc nut, BSP Female Threads. The sealing dimensions and ball diameter allow a blind operating angle ⩾ 10°, **Handle :** Butterfly Handle, **On Request :** American NPT threads ANSI B1.20.1, **Working Pressure :** Water 20 bar, Gas 10 bar, Vacuum 10^{-3} Torr., **Working Temp.:** Fluid at -20°C to +150°C, **Gas :** -20°C to +60°C, **Sizes :** 1/2" to 1". **Approved by Indraprastha Gas Ltd., New Delhi.**

FEMALE GAS BALL VALVE (WITH NOZZLE)
FEMALE APPLIANCE VALVE

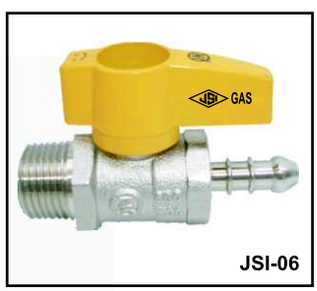


JSI-05 Female Gas Ball Valve with hose nipple is approved with European standard Gas applications (90/396/EEC) also in compliance to the latest Euro Norms EN:331:1998. Suitable for Water, Steam, Gas distribution such as Town Gas, Natural gas, LPG etc. Can be used for Domestic and Commercial, Plumbing, Industrial applications, sanitary, pneumatic systems, waterworks, oil pipelines, hot water services, condensate services, petrol and other hydrocarbon services etc. The **Female thread** with knurling provides full grip of PTFE thread seal tape covering any gaps properly & does not allow it to slip.

Main Features :-

Body : Forged Brass, **Ball :** Forged brass, machined to mirror finish, Hard Chrome plated, **HOSE UNION, CAP & STEM :** Machined from Brass rod, **Seat :** Pure PTFE conical arc cut, **STEM SEALS :** Double "O" Ring in Perbunan NBR - DIN 3635/1. NUT : Self locking Nyloc nut, BSP **female threads** with knurling, **Working Pressure :** Water 20 bar, Gas 10 bar, Vacuum 10^{-3} Torr., **Working Temperature :** Fluid at -20°C to +180°C, **Gas :** -20°C to +60°C, **Sizes :** 1/4" to 1/2" BSPT/NPT.

MALE GAS BALL VALVE (WITH NOZZLE)
MALE APPLIANCE VALVE



JSI-06 Male Gas Ball Valve with hose nipple is approved with European standard Gas applications (90/396/EEC) also in compliance to the latest Euro Norms EN:331:1998. Suitable for Water, Steam, Gas distribution such as Town Gas, Natural gas, LPG etc. Can be used for Domestic and Commercial, Plumbing, Industrial applications, sanitary, pneumatic systems, waterworks, oil pipelines, hot water services, condensate services. The **Male thread** with knurling provides full grip of PTFE thread seal tape covering any gaps properly & does not allow it to slip.

Main Features :-

Body : Forged Brass, **Ball :** Forged brass, machined to mirror finish, Hard Chrome plated, **HOSE UNION, CAP & STEM :** Machined from Brass rod, **Seat :** Pure PTFE conical arc cut, **STEM SEALS :** Double "O" Ring in Perbunan NBR - DIN 3635/1. NUT : Self locking Nyloc nut, BSP **male threads** with knurling, **Working Pressure :** Water 20 bar, Gas 10 bar, Vacuum 10^{-3} Torr., **Working Temperature :** Fluid at -20°C to +180°C, **Gas :** -20°C to +60°C, **Sizes :** 1/4" to 1/2" BSPT.

* M.O.P. :- Maximum Operating Pressure, * M.O.T. :- Maximum Operating Temperature

ZHIQING JSI FORGED BRASS VALVES

Female Ball Valve With Union

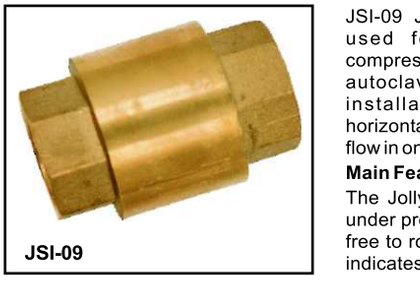

JSI-07

JSI-07 Ball Valves with Union are manufactured in accordance with ISO 9001 and can be used for : domestic and commercial plumbing, industrial applications, agricultural requirements and heating, sanitary, pneumatic systems, waterworks, hot water services, condensate lines and is suitable for generally with every non-aggressive fluid.

Main Features :-

***M.O.P. :** 20 bar (300 psi), ***M.O.T. :** Working limit for fluids at - 20° C to 150° C, **Test pressure :** PN - 16, **Threading :** BSP, **Materials : BODY :** Brass, **Ball :** Brass, machined to a micro-smooth finish, Hard chrome plated, **Handle :** Dacromet rugged steel with PVC grip, **Ball Gaskets :** Conical rings in P.T.F.E. pure Teflon, **Vacuum :** 10 Torr., **Sizes :** 1/2", 3/4", 1".

Jolly Check Valve


JSI-09

JSI-09 Jolly Check Valves can be used for : heating, sanitary, compressed air systems, pumps, autoclaves. It is suitable for installation either in vertical, horizontal or oblique pipelines to allow flow in one direction.

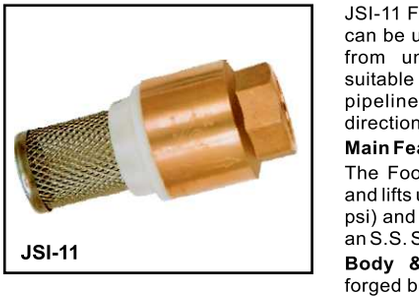
Main Features :-

The Jolly Check Valve opens & lifts under pressure of 0.25 bar (4psi) & is free to rotate. An arrow on the body indicates the direction of flow.

ADVANTAGES : Low pressure drop, prevents water, hammer, compact design, noiseless in operation, no risk of fluid reverting the flow direction, full flow area equal to nominal size, safe & reliable in operation.

Body & End Connector : Hot forged brass, **Spring :** 18/8 AISI 302 stainless steel, **Inner Valve :** Hostaform, **Valve Face :** NBR rubber, **Threading :** Female parallel threads to ISO 7/1, **Hydrostatic Test Pressure :** Shell 10 bar (150 psi), Seat 10 bar (150 psi), **Sizes :** 1/2" to 2".

Forged Foot Valve
With S.S. Screen


JSI-11

JSI-11 Foot Valves with S.S. Screen can be used for ; pumping of liquids from underground tanks. It is suitable for installation in vertical pipelines to allow fluid in one direction.

Main Features :-

The Foot Valves inner valve opens and lifts under pressure of 0.25 bar (4 psi) and free to rotate and fitted with an S.S. Screen.

Body & End Connectors : Hot forged brass, **Spring** : 18/8 AISI 302 stainless steel, **Inner Valve** : Hostaform, **Valve Face** : NBR Rubber, **Threading** : Female parallel threads to ISO-7/1, **Pressure :** Shell 10 bar (150 psi), Seat 10 bar (150 psi), **Sizes :** 1/2" to 2".

Forged Brass Gate Valve


JSI-08

JSI-08 Gate Valves are manufactured in accordance with BS 5154/B - PN 16 and can be used for : heating plants, sanitary systems, plumbing services, waterworks, pneumatic systems & steam.

Main Features :-

Body, Bonnet, Wedge : Forged brass, **Stem and Metal Components :** Machined from extruded brass, **Packing :** Suitable to a maximum temperature of 250° C, **Gland Packing :** Asbestos free AF15 heat resistant fibre, elastomers, synthetic resin and PTFE, suitable to max. temp. of 250° C, **Handwheel :** Registered "JSI" model in hard duraluminium A1-SI 12 alloy showing "On-Off", BSP Female Threads, Integral seat in accordance in nominal dimension. **Hydrostatic Test Pressure :** Shell 25 Bar (350 psi), Seat 15 Bar (250 psi), **Sizes :** 1/2" to 6".

Forged Swing Check Valve


JSI-10

JSI-10 Forged Swing Check Valves can be used for heating, sanitary, compressed air systems, pumps, autoclaves, handling water, air, vacuum etc. Can be used for vertical, horizontal or oblique pipelines to allow flow in one direction.

Main Features :-

The forged swing check valve opens and lifts under pressure of 0.25 bar (4psi), very low pressure drop, prevents water hammer. Compact design, noiseless operation, dent proof hostaform soft seating. Full flow area equal to nominal size.

Body : Forged Brass, **Spring :** Conical tempered spring in SS 316, **Inner Valve :** Hostaform, **Valve Face :** NBR rubber, **ENDS :** Screwed BSP Female x female ends, **Pressure :** Shell 20 Bar Hydro, Seat 15 Bar Hydro, **Temp :** -10°C to +80°C, **Sizes :** 1/2" to 2".

Forged Ball Bib Cock
(Detachable Hose Fixed Hose)



JSI-12A



JSI-12B

JSI-12 Ball Bib Cock are manufactured in accordance with ISO 9001 and can be used for domestic plumbing, industrial applications, dispensing units and with all general applications where an attachment may be required to accommodate connection with external hoses.

Main Features :-

Heavy design enables exceptional wear resistance superior to traditional bib cock, completely leak proof. **Body :** Forged Brass, **Ball :** Forged brass, machined to mirror smooth finish, hard chrome plated, **Seat :** Pure PTFE conical arc cut, **Stem Seals :** PTFE, Handle : Duraluminium alloy, BSP male threads with knurling, ***M.O.P. :** 20 bar, ***M.O.T. :** Fluids -10°C to +100°C, **Sizes :** 1/2", 3/4".

* M.O.P. :- Maximum Operating Pressure, * M.O.T. :- Maximum Operating Temperature

FORGED BRASS VALVES ZHIQING

BRASS FEMALE Y-TYPE STRAINER



JSI-14 Brass Female Y-Type Strainer is manufactured in accordance with ISO 9001 & can be used for commercial plumbing where clean water filtered out of 80/100 Micron filter is required, is used before water meter - Dental chair and to separate dust particals out of water for industrial purpose.

M.O.P : 20 bar (300 psi), **M.O.T** : Fluids at -20°C to 150°C

Sizes: 1/2" to 2" BSP.

AIR VENT VALVE



JSI-15 Air Vent Valve is manufactured in accordance with ISO 9001 & can be used for domestic & commercial plumbing, industrial applications, heating, sanitary, pneumatic systems, water works, hot water services, condensate services etc. where air pocket formation causes problems.

Main features :-

The Air Vent Valve allows the accumulated air in pipeline networks to breathe out of the systems thus removing air pockets and eventually eliminating related problems such as noise, erratic water supply etc. Body : Brass, Max. Inlet Pressure :10 Bar, Min. Working Pressure : 0.1 Bar, **M.O.T** : 115°C. **Size :** ½" to 1"

A.C. BALL VALVE SET





JSI-16 A.C. Ball Valve Set with strainer & without strainer are manufactured as per ISO 9001 & can be used in Industrial Air Conditioning.

Sizes : 3/4 x 5/8, 1" x 5/8".

PRESSURE REDUCING VALVE (S.S. PARTS)



JSI-17 Pressure Reducing Valve with SS Parts is suitable for controlling the outlet pressure of water in various applications such as before appliances, sanitary, domestic & Industrial plumbing requirements etc.

Main features :-

Metallic brass diaphragm system for better pressure control.

Max. Inlet : 15 Bars, **Outlet Range:** 0.5 - 6 Bars, Tested at 20 Bar.

Body : Forged brass, **Seal :** Stainless steel, "O" Ring : **NBR Ends :** Screwed BSP female ends. **Sizes :** 1/2" to 1".

Do we need
to say more !!

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