GROVJOINT INDIA
PIPE FITTINGS

DUCTILE IRON GROOVED FITTINGS AND COUPLINGS

0461 - 2900568

info@grovejointindia.com

1st floor, 4/28 E-2,
KMA Warehousing Complex, Tuticorin

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FM APPROVED

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INDEX

COMPANY PROFILE

GROVJOINT INDIA PIPE FITTINGS was set up upon a dream, quality, and vision to provide infrastructure, fire protection, and building services industries with a remarkable range of premium products of grooved pipe fittings. Its mission is to serve the customer requirements in a superior manner by adopting a unique quantitative way with the help of advanced technology. The organization's vision is to be one of the leading manufacturers and providers of Ductile Iron Pipe Fittings in the Asian Sub Continent.

Our highest standard of ethics, quality, and service has acquired us a high reputation, faithfulness, and trust of our customers who have since become our long-term accomplices. Subsequently, we just measure our prosperity depends on the total fulfillment and loyalty of our esteemed clients.

One of our fundamental beliefs is straightforwardness. We are continually imparting significant data to our current and forthcoming clients. In any market, it is essential to keep our finger on the beat and educate our clients about the advancements, innovation, and accordingly regarding them as accomplices in our organization. We do our absolute best to keep you educated to empower you to settle on sound and thoroughly examined choices with the help of our fully experienced and professional staff.

FEATURES

Reliable

The couplings engages around both ends of the pipe and keeps the pipe ends under control from separation from pressure and other forces unto the maximum rated coupling pressure.

Reduced Cost

The installation process for the products are quick and easy. Installation does not require special training and the installation prices are controllable.

Rigidity

The products are rigid for all type of usage and are under standard specification.

CERTIFICATE OF COMPLIANCE

Certificate Number	EX28552
Report Reference	EX28552-20210320
Issue Date	2021-April-09
Issued to:	Grovjoint India Pipe Fittings 1st Floor, No. 4/28 E-2, K.M.A. Warehousing Complex, Harbour Bye Pass Road, Tuticorin Thoothukudi Tamil Nadu628006IN
This certificate confirms that representative samples of	Fittings, Grooved and Plain End See Addendum Page
	Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.
Standard(s) for Safety:	Subject 213C Outline of Investigation for Grooved and Plain End Fittings
Additional Information:	See the UL Online Certifications Directory at https://iq.ulprospector.com for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure 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.

Page 1 of 2

CERTIFICATE OF COMPLIANCE

Certificate Number	EX28551
Report Reference	EX28551-20210323
Issue Date	2021-APRIL-09
Issued to:	GROVJOINT INDIA PIPE FITTINGS 1st Floor, No. 4/28 E-2, K.M.A. Warehousing Complex, Harbour Bye Pass Road, Tuticorin Thoothukudi, Tamil Nadu, 628006 IN
This certificate confirms that representative samples of	FITTINGS, RUBBER GASKETED See addendum page for models
	Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.
Standard(s) for Safety:	ANSI/CAN/UL 213 - UL Standard for Rubber Gasketed Fittings for Fire Protection Service
Additional Information:	See the UL Online Certifications Directory at https://iq.ulprospector.com for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure 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.

Page 1 of 2

FM APPROVED

Certificate of Compliance

This certificate is issued for the following:

Gasketed and Non-Gasketed Pipe Fittings for Aboveground Fire Protection Systems

Prepared for:

GROVJOINT INDIA PIPE FITTINGS
1st Fl, No. 4/28 E-2 KMA Warehousing Complex,
Harbour Bye Pass Rd
Thoothukudi, Tamil Nadu 628006
India

FM Approvals Class: 1920 – "Pipe Couplings and Fittings for Aboveground Fire Protection Systems" (November, 2007)

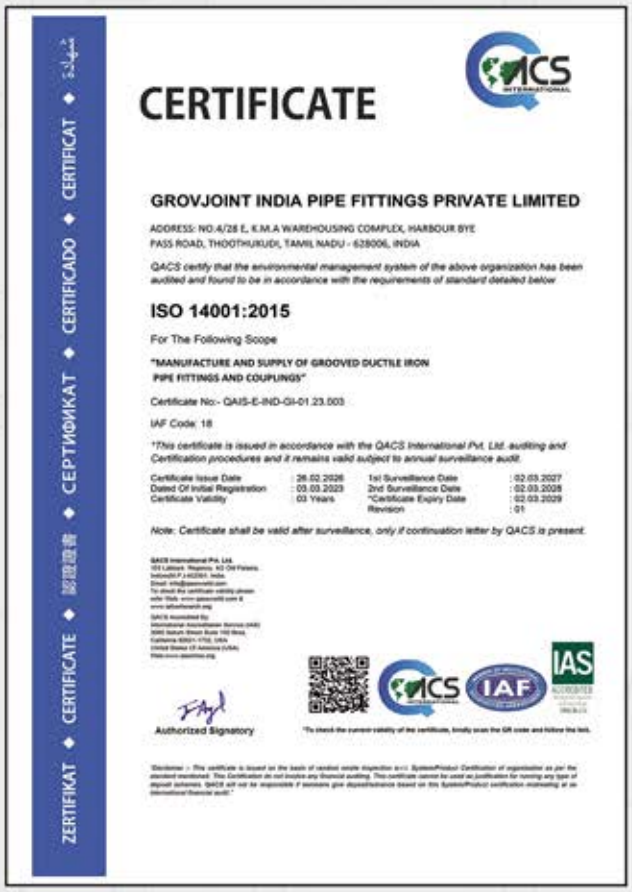
Approval Identification: PR459601 Approval Granted: April 30, 2021

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 Fuller
VP - Manager of Fire Protection
FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062

FM Approvals
Member of the FM Global Group



ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT ◆ شهادة

CERTIFICATE

GROVJOINT INDIA PIPE FITTINGS PRIVATE LIMITED

ADDRESS: NO.4/28 E, K.M.A WAREHOUSING COMPLEX, HARBOUR BYE PASS ROAD, THOOTHUKUDI, TAMIL NADU - 628006, INDIA

QACS certify that the environmental management system of the above organization has been audited and found to be in accordance with the requirements of standard detailed below

ISO 14001:2015

For The Following Scope

"MANUFACTURE AND SUPPLY OF GROOVED DUCTILE IRON PIPE FITTINGS AND COUPLINGS"

Certificate No:- QAIS-E-IND-GI-01.23.003

IAF Code: 18

**This certificate is issued in accordance with the QACS International Pvt. Ltd. auditing and Certification procedures and it remains valid subject to annual surveillance audit.*

Certificate Issue Date	: 26.02.2026	1st Surveillance Date	: 02.03.2027
Dated Of Initial Registration	: 03.03.2023	2nd Surveillance Date	: 02.03.2028
Certificate Validity	: 03 Years	*Certificate Expiry Date	: 02.03.2029
		Revision	: 01

Note: Certificate shall be valid after surveillance, only if continuation letter by QACS is present.

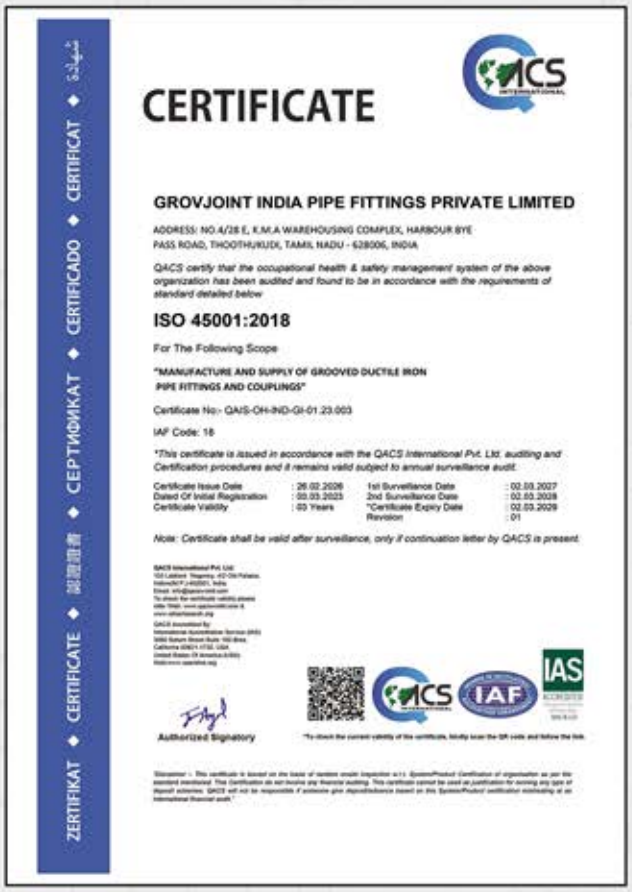
QACS International Pvt. Ltd.
103 Lakhani Regency, 4/2 Old Palasia,
Indore(M.P.) 452001, India.
Email: info@qacsworld.com
To check the certificate validity please refer Web: www.qacsworld.com &
www.iafcertsearch.org

QACS Accredited By:
International Accreditation Service (IAS)
9000 Saturn Street Suite 100 Brea,
California 92821-1732, USA
United States Of America (USA)
Web:www.iasonline.org

Authorized Signatory

**To check the current validity of the certificate, kindly scan the QR code and follow the link.*

Disclaimer :- This certificate is issued on the basis of random onsite inspection w.r.t. System/Product Certification of organization as per the standard mentioned. This Certification do not involve any financial auditing. This certificate cannot be used as justification for running any type of deposit schemes. QACS will not be responsible if someone give deposit/advance based on this System/Product certification misleading at an international financial audit."



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CERTIFICATE

GROVJOINT INDIA PIPE FITTINGS PRIVATE LIMITED

ADDRESS: NO.4/28 E, K.M.A WAREHOUSING COMPLEX, HARBOUR BYE PASS ROAD, THOOTHUKUDI, TAMIL NADU - 628006, INDIA

QACS certify that the occupational health & safety management system of the above organization has been audited and found to be in accordance with the requirements of standard detailed below

ISO 45001:2018

For The Following Scope

"MANUFACTURE AND SUPPLY OF GROOVED DUCTILE IRON PIPE FITTINGS AND COUPLINGS"

Certificate No:- QAIS-OH-IND-GI-01.23.003

IAF Code: 18

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Dated Of Initial Registration	: 03.03.2023	2nd Surveillance Date	: 02.03.2028
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		Revision	: 01

Note: Certificate shall be valid after surveillance, only if continuation letter by QACS is present.

QACS International Pvt. Ltd.
103 Lakhani Regency, 4/2 Old Palasia,
Indore(M.P.) 452001, India.
Email: info@qacsworld.com
To check the certificate validity please
refer Web: www.qacsworld.com &
www.iafcertsearch.org

QACS Accredited By:
International Accreditation Service (IAS)
9000 Saturn Street Suite 100 Brea,
California 92821-1732, USA
United States Of America (USA)
Web:www.iasonline.org

Authorized Signatory

**To check the current validity of the certificate, kindly scan the QR code and follow the link.*

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Certificate

Standard: **ISO 9001:2015**

Certificate Registr. No. **01 100 2337308**

Certificate Holder: **GROVJOINT INDIA PIPE FITTINGS PRIVATE LIMITED**
Second Floor, No.4/28,E-2, K.M.A Warehousing Complex,
Harbour Bye Pass Road,
Thoothukudi – 628006,
Tamilnadu, India

Scope: Manufacture of Grooved Ductile Iron Pipe Fittings and Couplings

Proof has been furnished by means of an audit that the requirements of ISO 9001:2015 are met

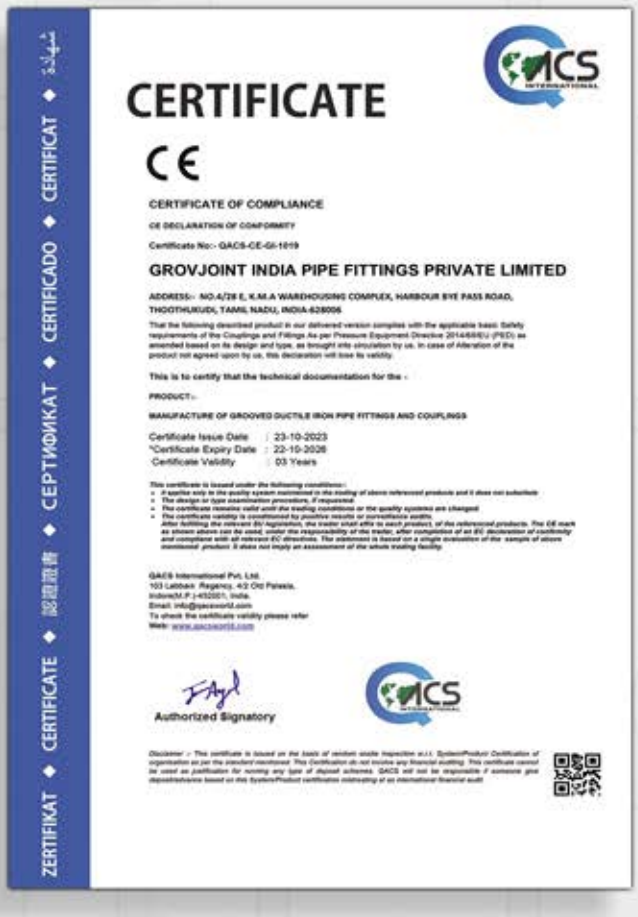
Validity: The certificate is valid from 2026-03-27 until 2029-03-26.
First certification 2023

2026-03-13

TÜV Rheinland Cert GmbH
Am Grauen Stein - 51105 Köln

www.tuv.com

TÜVRheinland®
Precisely Right.



ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT ◆ شهادة

CERTIFICATE

CE

CERTIFICATE OF COMPLIANCE

CE DECLARATION OF CONFORMITY

Certificate No:- GACS-CE-GI-1019

GROVJOINT INDIA PIPE FITTINGS PRIVATE LIMITED

ADDRESS:- NO.4/2B E, K.M.A WAREHOUSING COMPLEX, HARBOUR BYE PASS ROAD, THOOTHUKUDI, TAMIL NADU, INDIA-628006

That the following described product in our delivered version complies with the applicable basic Safety requirements of the Couplings and Fittings As per Pressure Equipment Directive 2014/68/EU (PED) as amended based on its design and type, as brought into circulation by us. In case of Alteration of the product not agreed upon by us, this declaration will lose its validity.

This is to certify that the technical documentation for the -

PRODUCT:-

MANUFACTURE OF GROOVED DUCTILE IRON PIPE FITTINGS AND COUPLINGS

Certificate Issue Date : 23-10-2023
*Certificate Expiry Date : 22-10-2028
Certificate Validity : 03 Years

This certificate is issued under the following conditions:-

- It applies only to the quality system maintained in the making of above referenced products and it does not substitute
- The design or type examination procedure, if requested
- The certificate remains valid until the trading conditions or the quality systems are changed
- The certificate validity is conditioned by positive results or surveillance audits.

*After fulfilling the relevant EU legislation, the trader shall affix to each product, of the referenced products. The CE mark as shown above can be used, under the responsibility of the trader, after completion of an EC declaration of conformity and compliant with all relevant EC directives. The statement is based on a single evaluation of the sample of above mentioned product. It does not imply an assessment of the whole trading facility.

GACS International Pvt. Ltd.
103 Lalbaan Regency, 4/2 Old Palasia,
Indore(M.P.)-452001, India.
Email: info@gacsworld.com
To check the certificate validity please refer
Web: www.gacsworld.com

Authorized Signatory

*Disclaimer :- This certificate is issued on the basis of random audit inspection w.r.t. System/Product Certification of organisation as per the standard mentioned. This Certification do not involve any financial auditing. This certificate cannot be used as justification for running any type of disposal schemes. GACS will not be responsible if someone give depositreliance based on this System/Product certificates mishandling of an international financial audit.

Approval Number 2003549
Test Report: M106977

8th December 2023

Grovjoint India Pipe Fittings Private Ltd.
Second Floor, 4/2B E-2,
K.M.A. Warehousing Complex,
Harbour Bye Pass Road,
Tuticorin,
628006,
Tamil Nadu.
India

Water Regulations Approval Scheme Ltd.
Unit 13,
Willow Road,
Pen y Fan Industrial Estate,
Crumlin,
Gwent,
NP11 4EG

WATER REGULATIONS APPROVAL SCHEME LTD. (WRAS) MATERIAL APPROVAL

The material referred to in this letter is suitable for contact with wholesome water for domestic purposes having met the requirements of BS6920-1:2000 and/or 2014 'Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water'.

The reference relates solely to its effect on the quality of the water with which it may come into contact and does not signify the approval of its mechanical or physical properties for any use.

RUBBERS- ETHYLENE PROPYLENE DIENE MONOMER (EPDM) - COMPONENTS. 5360

'EPDM-GRVJ-70 Gasket'. Black coloured, compression moulded EPDM rubber gasket. Shore hardness 70. Tested in radius size 2.1mm. For use with water up to 85°C.

APPROVAL NUMBER: 2003549
APPROVAL HOLDER: GROVJOINT INDIA PIPE FITTINGS PRIVATE LTD.

The Scheme reserves the right to review approval.
Approval 2003549 is valid between March 2020 and March 2025

An entry, as above, will accordingly be included in the Water Fittings Directory on-line under the section headed, "Materials which have passed full tests of effect on water quality".

The Directory may be found at: www.wrasapprovals.co.uk/approvals-directory/

Yours Faithfully

Ian Hughes
WRAS Approvals Manager

The Water Regulations Approval Scheme Ltd. Registered in England No. 1303384 Registered office: 85 Lovick Close, Hazel Grove, Stockport, SK7 5EG
WRAS App-005F1 rev 2.0 Tel: +44(0)1495 244 888 Fax: +44(0)1495 244 889 Email:info@wrasapprovals.co.uk website:www.wrasapprovals.co.uk
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NSF International

789 N. Dixboro Road, Ann Arbor, MI 48105 USA

RECOGNIZES

GROVJOINT INDIA PIPE FITTINGS PRIVATE LIMITED

India

AS COMPLYING WITH NSF/ANSI/CAN 61 AND ALL APPLICABLE REQUIREMENTS.
PRODUCTS APPEARING IN THE NSF OFFICIAL LISTING ARE
AUTHORIZED TO BEAR THE NSF MARK.

This certificate is the property of NSF International and must be returned upon request. This certificate remains valid as long as this client has products in NSF's Official Listings for the referenced standards. For the most current and complete Listing information, please access NSF's website (www.nsf.org).

January 15, 2024
Certificate# C0800484 - 01

Theresa Bellish
Senior Director Municipal Water Systems and NA Region

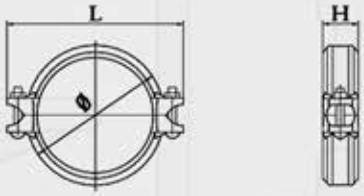
RIGID COUPLING - GJRC50G

- The couplings provide severity for internal pressure applications. They are designed for fire protection and other related grooved piping systems.
- It provides a restrained connection that combats various types of loads.
- Coupling housing are made up of ductile iron confirming to ASTM A536 and the rubber gaskets are made by EPDM with rated working pressure up to 500 psi.
- They feature high pressure ratings.
- Available with hot dipped galvanised coating as optional

Normal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size No-Size mm	Dimensions mm/in		
				O	L	H
25 1	33.7 1.327	500 3.45	2-M10x45	60 2.362	102 4.016	45 1.772
32 11/4	42.4 1.669	500 3.45	2-M10x45	70 2.756	106 4.173	44 1.732
40 11/2	48.3 1.900	500 3.45	2-M10x45	73 2.874	108 4.252	44 1.732
50 2	60.3 2.375	500 3.45	2-M10x55	87 3.425	123 4.843	44 1.732
65 21/2	73.0 2.875	500 3.45	2-M10x55	100 3.937	138 5.433	44 1.732
65 21/2	76.1 3.000	500 3.45	2-M10x55	103 4.055	142 5.591	45 1.772
80 3	88.9 3.500	500 3.45	2-M12x60	117 4.606	166 6.535	45 1.772
100 4	114.3 4.500	500 3.45	2-M12x65	139 5.472	190 7.480	49 1.929
125 5	139.7 5.500	400 2.75	2-M12x75	168 6.614	218 8.583	49 1.929
125 5	139.7 5.500	500 3.45	2-M16x85	170 6.692	233 9.173	52 2.047
125 5	141.3 5.563	400 2.75	2-M12x75	167 6.575	219 8.622	49 1.929
125 5	141.3 5.563	500 3.45	2-M16x85	170 6.692	235 9.251	52 2.047
150 6	165.1 6.500	400 2.75	2-M12x75	193 7.598	241 9.488	49 1.929
150 6	165.1 6.500	500 3.45	2-M16x85	199 7.834	256 10.078	54 2.125
150 6	168.3 6.625	400 2.75	2-M12x75	198.5 7.815	249 9.803	50 1.969
150 6	168.3 6.625	500 3.45	2-M16x85	206 8.110	263 10.354	54 2.125
200 8	219.1 8.625	400 2.75	2-M16x85	253 9.961	320 12.598	59 2.323
200 8	219.1 8.625	500 3.45	2-M20x120	258 10.157	336 13.228	63 2.480
250 10	273 10.748	300 2.07	2-M22x130	335 13.189	426 16.772	68 2.677
250 10	273 10.748	500 3.45	2-M24x130	322 12.677	410 16.141	65 2.559
300 12	323.9 12.752	300 2.07	2-M22x130	380 14.96	470 18.504	65 2.559
300 12	323.9 12.752	500 3.45	2-M24x130	384 15.118	472 18.582	66 2.598

Flexible Coupling - GJFC12G

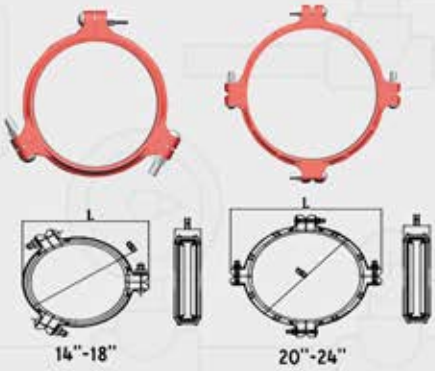
- They are ductile iron grooved flexible coupling designed for fire protection and other related grooved piping systems. They are designed in a way to withstand pressure applications at lighter weights.
- The flexible couplings are designed to accommodate more angular movement and axial displacement for better flexibility of installation.
- They provide better protection in seismic events and helps to reduce noise and vibration.
- The flexible couplings are made up of ductile iron confirming to ASTM A536 and the rubber gaskets are made by EPDM with rated working pressure up to 500 psi.
- Available with hot dipped galvanised coating as optional



Normal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size No-Size mm	Allow Pipe end Separation	Max. Deflection from & Center Line			Dimensions		
				in/mm	Per Coup. Deg	Pipe		O	L	H
						in. /ft	mm/m			
25 1	33.7 1.327	500 3.45	2-M10x45	0-0.06 0-1.6	2° 43'	0.57	48	60 2.362	98 3.858	43.5 1.713
32 11/4	42.4 1.669	500 3.45	2-M10x45	0-0.06 0-1.6	2° 10'	0.45	38	67 2.638	106 4.173	44 1.732
40 11/2	48.3 1.900	500 3.45	2-M10x45	0-0.06 0-1.6	1° 56'	0.4	33	73 2.874	108 4.252	44 1.732
50 2	60.3 2.375	500 3.45	2-M10x55	0-0.06 0-1.6	1° 31'	0.32	27	87 3.425	123 4.843	44 1.732
65 21/2	73.0 2.875	500 3.45	2-M10x55	0-0.06 0-1.6	1° 15'	0.26	22	100 3.937	138 5.433	44 1.732
65 21/2	76.1 3.000	500 3.45	2-M10x55	0-0.06 0-1.6	1° 12'	0.26	22	103 4.055	142 5.591	45 1.772
80 3	88.9 3.500	500 3.45	2-M12x60	0-0.06 0-1.6	1° 2'	0.22	18	117 4.606	166 6.535	45 1.772
100 4	114.3 4.500	500 3.45	2-M12x65	0-0.13 0-3.2	1° 36'	0.34	28	139 5.472	190 7.480	49 1.929
125 5	139.7 5.500	400 2.75	2-M12x75	0-0.13 0-3.2	1° 18'	0.28	23	168 6.614	218 8.583	49 1.929
125 5	139.7 5.500	500 3.45	2-M16x85	0-0.13 0-3.2	1° 18'	0.28	23	170 6.692	233 9.173	52 2.047
125 5	141.3 5.563	400 2.75	2-M12x75	0-0.13 0-3.2	1° 18'	0.27	22	167 6.575	219 8.622	49 1.929
125 5	141.3 5.563	500 3.45	2-M16x85	0-0.13 0-3.2	1° 18'	0.27	22	170 6.692	235 9.251	52 2.047
150 6	165.1 6.500	400 2.75	2-M12x75	0-0.13 0-3.2	1° 6'	0.23	19	193 7.598	241 9.488	49 1.929
150 6	165.1 6.500	500 3.45	2-M16x85	0-0.13 0-3.2	1° 6'	0.23	19	199 7.834	256 10.078	54 2.125
150 6	168.3 6.625	400 2.75	2-M12x75	0-0.13 0-3.2	1° 5'	0.23	19	198.5 7.815	249 9.803	50 1.969
150 6	168.3 6.625	500 3.45	2-M16x85	0-0.13 0-3.2	1° 5'	0.23	19	206 8.110	263 10.354	54 2.125
200 8	219.1 8.625	400 2.75	2-M16x85	0-0.13 0-3.2	0° 50'	0.18	15	253 9.961	320 12.598	59 2.323
200 8	219.1 8.625	500 3.45	2-M20x120	0-0.13 0-3.2	0° 50'	0.18	15	258 10.157	336 13.228	63 2.480
250 10	273 10.748	300 2.07	2-M22x130	0-0.13 0-3.2	0° 40'	0.28	23	317 12.48	401 15.787	63 2.48
250 10	273 10.748	500 3.45	2-M24x130	0-0.13 0-3.2	0° 40'	0.28	23	322 12.677	410 16.141	65 2.559
300 12	323.9 12.752	300 2.07	2-M22x130	0-0.13 0-3.2	0° 34'	0.24	20	375 14.764	455 17.913	64 2.52
300 12	323.9 12.752	500 3.45	2-M24x130	0-0.13 0-3.2	0° 34'	0.24	20	384 15.118	472 18.582	66 2.598

Flexible Coupling (Large Size)- GJFC12L

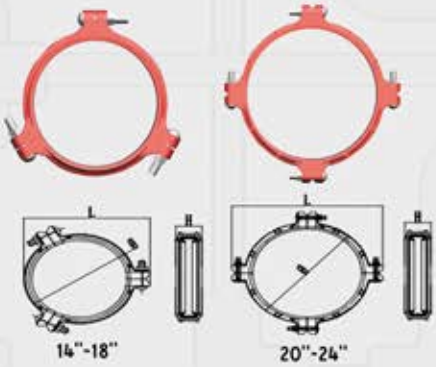
- They are ductile iron grooved flexible coupling designed for fire protection and other related grooved piping systems. they are designed in a way to withstand pressure applications at lighter weights.
- The flexible couplings are designed to accommodate more angular movement and axial displacement for better flexibility of installation.
- They provide better protection in seismic events and helps to reduce noise and vibration.
- The flexible couplings are made up of duction iron confirming to ASTM A536 and the rubber gasketss are made by EPDM with rated working pressure up to 500 psi.
- Available with hot dipped galvanized coating as optional.



Normal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Allow Pipe End Separation	Max. Deflection from & Center Line			Bolt Size No-Size mm	Dimensions		
			In/mm	Per Coup. Deg	Pipe			O	L	H
					In. /ft	mm/m				
350 14	355.6 14.00	300 2.07	0-0.13 0-3.2	0° 31'	0. 22	18	3-M22x100	406 15.984	454 17.874	75 2.953
400 16	406.4 16.00	250 1.72	0-0.13 0-3.2	0°27'	0. 19	16	3-M22x100	458 18.031	507 19.961	75 2.953
450 18	457.2 18.00	250 1.72	0-0.13 0-3.2	0°24'	0. 17	14	3-M22x100	507 19.961	535 21.063	82 3.228
500 20	508 20.00	250 1.72	0-0.13 0-3.2	0°22'	0. 15	12	4-M24x130	564 22.205	663 26.102	79 3.11
600 24	610 24.00	250 1.72	0-0.13 0-3.2	0°18'	0. 13	11	4-M24x130	672 26.457	774 30.472	79 3.11

Rigid Coupling (Large Size) - GJRC50L

- The couplings provide severity for internal pressure applications. They are designed for fire protection and other related grooved piping systems.
- It provides a restrained connection that combats various types of loads.
- Coupling housing are made up of Ductile Iron confirming to ASTM A536 and the rubber gaskets are made by EPDM with rated working pressure up to 500 psi.
- They feature high pressure ratings.
- Available with hot dipped galvanized coating as optional.



Normal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size No-Size mm	Dimensions		
				O	L	H
350 14	355.6 14.00	300 2.07	3-M22x100	406 15.984	461 18.15	75 2.953
400 16	406.4 16.00	300 2.07	3-M22x100	458.6 18.055	513.8 20.228	75 2.953
450 18	457.2 18.00	250 1.72	3-M22x100	515 20.276	571 22.48	82 3.228
500 20	508 20.00	250 1.72	4-M24x130	565 22.244	690 27.165	79 3.11
600 24	610 24.00	250 1.72	4-M24x130	676 26.614	786.6 30.969	79 3.11

- They are ductile iron grooved flexible coupling designed for fire protection and other related grooved piping systems. They are designed in a way to withstand pressure applications at lighter weights.
- The flexible couplings are designed to accommodate more angular movement and axial displacement for better flexibility of installation.
- They provide better protection in seismic events and helps to reduce noise and vibration.
- The flexible couplings are made up of ductile iron confirming to ASTM A536 and the rubber gaskets are made by EPDM with rated working pressure up to 500 psi.
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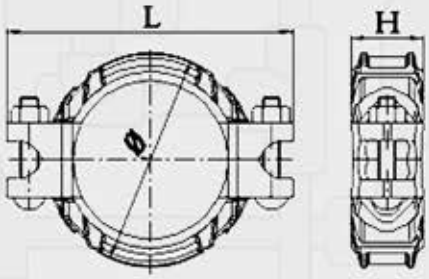
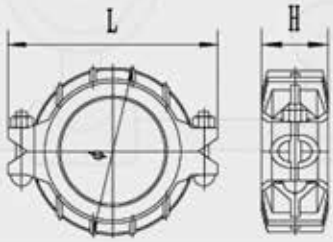


Normal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size No-Size mm	Allow Pipe End Separation	Max. Deflection from & Center Line			Dimensions mm/in		
				in/mm	Per Coup. Deg	Pipe				
						In. /ft	mm/m	O	L	H
50 2	60.3 2.375	500 3.45	2-1/2x60	0-0.06 0-1.6	1° 31'	0.62	52	44 1.732	136 5.354	46 1.811
80 3	88.9 3.500	500 3.45	2-1/2x75	0-0.06 0-1.6	1° 2'	0.43	36	59 2.323	161 6.339	46 1.881
100 4	114.3 4.500	500 3.45	2-5/8x85	0-0.13 0-3.2	1° 36'	0.67	56	74 2.913	204 8.031	51 2.008
150 6	168.3 6.625	500 3.45	2-3/4x120	0-0.13 0-3.2	1° 5'	0.46	38	103 4.055	270 10.630	54 2.126
200 8	219.1 8.625	400 2.76	2-7/8x127	0-0.13 0-3.2	0° 50'	0.34	29	135 5.331	355 13.976	64 2.520
250 10	273 10.75	400 2.76	2-1x165	0-0.13 0-3.2	0° 40'	0.28	23	163 6.417	418 16.457	67 2.638
300 12	323.9 12.75	400 2.76	2-1x165	0-0.13 0-3.2	0° 34'	0.24	20	189 7.441	464 18.268	68 2.677

Grooved Reducing Coupling - GJRC25G

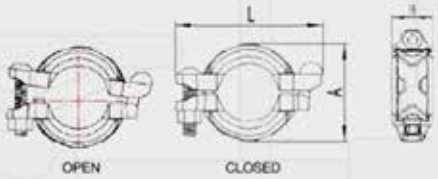
- Grovjoint india couplings are designed to reduce the diameter of pipes.
- These couplings eliminate the need for concentric reducers and additional couplings.
- The rubber gasket and steel plate prevents the telescoping of small pipe towards the larger pipe in vertical assembly.
- Reducer coupling helps to accommodate more angular movement and axial displacement for better flexibility of installations.
- Reducer coupling provides protection from seismic events and helps to reduce vibration and noise.
- Reducing coupling are made of ductile iron confirming to ASTM A536 and the rubber gaskets are made by EPDM with rated working pressure up to 500 psi.
- Available with hot dipped galvanised coating as optional



Normal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size No-Size mm	Max. Deflection from & Center Line			Dimensions mm/in		
				Per Coup. Deg	Pipe		O	L	H
					In. /ft	mm/m			
50*40 2*11/2	60.3*48.3 2.375*1.900	300 2.07	2-M10 x 55	1°-53'	0.4	33	90 3.543	129 5.079	47 1.850
65*40 21/2*11/2	73.0*48.3 2.874*1.900	300 2.07	2-M10 x 55	1°-33'	0.32	27	101 3.976	137 5.394	48 1.890
65*50 2*11/2	73.0*60.3 2.874*2.375	300 2.07	2-M10 x 55	1°-33'	0.32	27	101 3.976	137 5.394	48 1.890
65*40 2/12*11/2	76.1*48.3 2.996*1.900	300 2.07	2-M10 x 55	1°-33'	0.32	27	105 4.134	140 5.512	48 1.890
65*50 2*2	76.1*60.3 2.996*2.375	300 2.07	2-M10 x 55	1°-33'	0.32	27	105 4.134	140 5.512	48 1.890
80*40 3*11/2	88.9*48.3 3.500*1.900	300 2.07	2-M12 x 65	1°-33'	0.32	27	120 4.724	164 6.457	48 1.890
80*50 3*2	88.9*60.3 3.500*2.375	300 2.07	2-M12 x 65	1°-17'	0.26	22	120 4.724	164 6.457	48 1.890
80*65 3*21/2	88.9*73.0 3.500*2.874	300 2.07	2-M12 x 65	1°-17'	0.26	22	120 4.724	164 6.457	48 1.890
80*65 3*21/2	88.9*76.1 3.500*2.996	300 2.07	2-M12 x 65	1°-17'	0.26	22	120 4.724	164 6.457	48 1.890
100*40 4*11/2	114.3*48.3 4.500*1.900	300 2.07	2-M12 x 65	2°-38'	0.55	46	150 5.906	195 7.677	49 1.929
100*50 4*2	114.3*60.3 4.500*2.375	300 2.07	2-M12 x 65	2°-38'	0.55	46	150 5.906	195 7.677	49 1.929
100*65 4*21/2	114.3*73 4.500*2.874	300 2.07	2-M12 x 65	2°-38'	0.55	46	150 5.906	195 7.677	49 1.929
100*65 4*21/2	114.3*76.1 4.500*2.996	300 2.07	2-M12 x 65	2°-38'	0.55	46	150 5.906	195 7.677	49 1.929
100*80 4*3	114.3*88.9 4.500*3.500	300 2.07	2-M12 x 65	2°-38'	0.55	46	150 5.906	195 7.677	49 1.929
150*100 6*4	165.1*114.3 6.500*4.500	300 2.07	2-M12 x 75	1°-44'	0.38	32	203 7.992	235 9.252	50 1.969
150*80 6*3	168.3*88.9 6.625*3.500	300 2.07	2-M12 x 75	1°-44'	0.38	32	203 7.992	235 9.252	50 1.969
150*100 6*4	168.3*114.3 6.625*4.500	300 2.07	2-M12 x 75	1°-44'	0.38	32	203 7.992	235 9.252	50 1.969
200*150 8*6	219.1*168.3 8.625*6.625	300 2.07	2-M16x100	1°-15'	0.26	22	264 10.394	313 12.323	60 2.362

GROVJOINT ONE-BOLT PUSH-ON COUPLING - GJPLC10

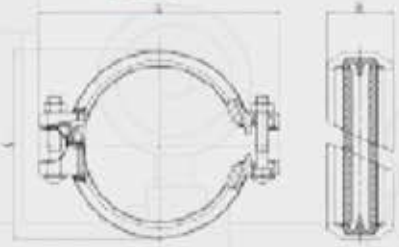
- GROVJOINT One-Bolt Push-On Coupling provide severity for internal pressure applications. They are designed for fire protection and other related grooved piping systems.
- It provides a restrained connection that combats various types of loads.
- Coupling housing are made up of ductile iron confirming to ASTM A536 and the rubber gaskets are made by EPDM with rated working pressure up to 500 psi.
- They feature high pressure ratings.
- Available with hot dipped galvanised coating as optional



Normal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size No-Size mm	Dimensions mm/in		
				A	L	H
25 1	33.7 1.32	450 3.1	M10 × 55	57.3	98.6	47.6
32 1¼	42.4 1.67	450 3.1	M10 × 60	64	107.5	47.5
40 1 1/2	48.3 1.9	450 3.1	M10 × 60	70	114	47.5
50 2	60.3 2.37	365 2.5	M10 × 65	84	128	48
65 2½	73 2.87	365 2.5	M10 × 70	96.4	140.3	48
65 2½	76.1 3	365 2.5	M10 × 70	99.5	143.5	48
80 3	88.9 3.5	365 2.5	M12 × 80	113.5	168	48
100 4	108 4.25	365 2.5	M12 × 80	133	187.5	50
100 4	114.3 4.5	365 2.5	M12 × 80	143	194	50
125 5	133 5.24	365 2.5	M12 × 85	165.5	221	50
125 5	139.7 5.5	365 2.5	M12 × 85	172	228	50
125 5	141.3 5.56	365 2.5	M12 × 85	173.7	229.5	50
150 6	159 6.26	365 2.5	M12 × 90	190	251	51
150 6	165.1 6.5	365 2.5	M12 × 90	198	256	51
150 6	168.3 6.63	365 2.5	M12 × 90	201	259	51

GROVJOINT QUICK-LOCK RIGID COUPLING - GJQRC19

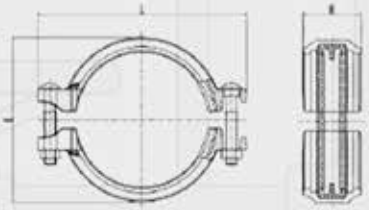
- GROVJOINT Quick-Lock Rigid Coupling - GJQRC19 provide severity for internal pressure applications. They are designed for fire protection and other related grooved piping systems.
- It provides a restrained connection that combats various types of loads.
- Coupling housing are made up of ductile iron confirming to ASTM A536 and the rubber gaskets are made by EPDM with rated working pressure up to 500 psi.
- They feature high pressure ratings.
- Available with hot dipped galvanised coating as optional



Normal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size No-Size mm	Dimensions mm/in		
				K	L	H
25	33.7	300	2-M10×55	63	95	47
1	1.327	2.07	2-3/8×55	2.48	3.74	1.85
32	42.4	300	2-M10×55	72	104	47
1¼	1.669	2.07	2-3/8×55	2.83	4.09	1.85
40	48.3	300	2-M10×55	77	111	47
1½	1.900	2.07	2-3/8×55	3.03	4.37	1.85
50	60.3	300	2-M10×55	91	123	47
2	2.375	2.07	2-3/8×55	3.58	4.84	1.85
65	73.0	300	2-M10×60	103	137	47
2½	2.875	2.07	2-3/8×60	4.06	5.39	1.85
65	76.1	300	2-M10×60	107	141	47
2½	3.000	2.07	2-3/8×60	4.21	5.55	1.85
80	88.9	300	2-M10×60	119	155	48.5
3	3.500	2.07	2-3/8×60	4.69	6.10	1.91
100	108	300	2-M12×65	144	178	51.5
4	4.250	2.07	2-1/2×65	5.67	7.01	2.03
100	114.3	300	2-M12×65	149	185	51.5
4	4.500	2.07	2-1/2×65	5.87	7.28	2.03
125	139.7	300	2-M12×75	177	214	52
5	5.500	2.07	2-1/2×75	6.97	8.43	2.05
125	141.3	300	2-M12×75	178	215	52
5	5.563	2.07	2-1/2×75	7.01	8.46	2.05
150	159.0	300	2-M12×80	196	235	52.5
6	6.250	2.07	2-1/2×80	7.72	9.25	2.07
150	165.1	300	2-M12×80	201	240	52.5
6	6.500	2.07	2-1/2×80	7.91	9.45	2.07
150	168.3	300	2-M12×80	205	244	52.5
6	6.625	2.07	2-1/2×80	8.07	9.61	2.07
200	216.3	300	2-M16×100	259	313	64
8	8.516	2.07	2-5/8×100	10.20	12.32	2.52
200	219.1	300	2-M16×100	264	316	64
8	8.625	2.07	2-5/8×100	10.39	12.44	2.52
250	267.0	300	2-M22×155	328	388	68
10	10.512	2.07	2-7/8×155	12.91	15.28	2.68
250	273.0	300	2-M22×155	334	395	68
10	10.748	2.07	2-7/8×155	13.15	15.55	2.68
300	318.4	300	2-M22×155	381	444	68
12	12.535	2.07	2-7/8×155	15.00	17.48	2.68
300	323.9	300	2-M22×155	387	451	68
12	12.752	2.07	2-7/8×155	15.24	17.76	2.68

GROVJOINT QUICK-LOCK FLEXIBLE COUPLING - GJQFC29

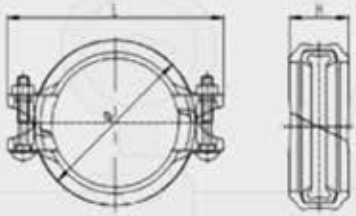
- GROVJOINT Quick-Lock Flexible Coupling - GJQFC29 provide severity for internal pressure applications. They are designed for fire protection and other related grooved piping systems.
- It provides a restrained connection that combats various types of loads.
- Coupling housing are made up of ductile iron confirming to ASTM A536 and the rubber gaskets are made by EPDM with rated working pressure up to 500 psi.
- They feature high pressure ratings.
- Available with hot dipped galvanised coating as optional



Normal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size No-Size mm	Dimensions mm/in		
				K	L	H
25 1	33.7 1.327	300 2.07	2-M10×55 2-3/8×55	63 2.48	95 3.74	47 1.85
32 1	42.4 1.669	300 2.07	2-M10×55 2-3/8×55	72 2.83	104 4.09	47 1.85
40 1 1/2	48.3 1.900	300 2.07	2-M10×55 2-3/8×55	77 3.03	111 4.37	47 1.85
50 2	60.3 2.375	300 2.07	2-M10×55 2-3/8×55	91 3.58	123 4.84	47 1.85
65 2 1/2	73.0 2.875	300 2.07	2-M10×60 2-3/8×60	103 4.06	137 5.39	47 1.85
65 2 1/2	76.1 3.000	300 2.07	2-M10×60 2-3/8×60	107 4.21	141 5.55	47 1.85
80 3	88.9 3.500	300 2.07	2-M10×60 2-3/8×60	119 4.69	155 6.10	48.5 1.91
100 4	114.3 4.500	300 2.07	2-M12×65 2-1/2×65	149 5.87	185 7.28	51.5 2.03
125 5	139.7 5.500	300 2.07	2-M12×75 2-1/2×75	177 6.97	214 8.43	52 2.05
125 5	141.3 5.563	300 2.07	2-M12×75 2-1/2×75	178 7.01	215 8.46	52 2.05
150 6	165.1 6.500	300 2.07	2-M12×80 2-1/2×80	201 7.91	240 9.45	52.5 2.07
150 6	168.3 6.625	300 2.07	2-M12×80 2-1/2×80	205 8.07	244 9.61	52.5 2.07
200 8	219.1 8.625	300 2.07	2-M16×100 2-5/8×100	264 10.39	316 12.44	64 2.52
250 10	273.0 10.748	300 2.07	2-M22×155 2-7/8×155	334 13.15	395 15.55	68 2.68
300 12	323.9 12.752	300 2.07	2-M22×155 2-7/8×155	387 15.24	451 17.76	68 2.68

GROVJOINT ANGLE PAD COUPLING - GJRC10A

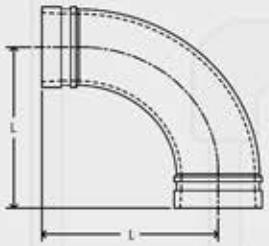
- GROVJOINT Angle pad couplings provide severity for internal pressure applications. They are designed for fire protection and other related grooved piping systems.
- It provides a restrained connection that combats various types of loads.
- Coupling housing are made up of ductile iron confirming to ASTM A536 and the rubber gaskets are made by EPDM with rated working pressure up to 500 psi.
- They feature high pressure ratings.
- Available with hot dipped galvanised coating as optional



Normal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Bolt Size No-Size mm	Dimensions mm/in		
				O	L	H
25 1	33.7 1.327	300 2.07	2-M10x45	57.4 2.260	98 3.858	47 1.85
32 1¼	42.4 1.669	300 2.07	2-M10x55	65 2.559	106 4.173	47 1.85
40 1½	48.3 1.9	300 2.07	2-M10x55	70.5 2.776	111 4.37	47 1.85
50 2	60.3 2.375	300 2.07	2-M10x60	85 3.346	123.5 4.862	47 1.85
65 2½	73 2.875	300 2.07	2-M10x60	99 3.900	137.5 5.413	47 1.85
65 2½	76.1 3.00	300 2.07	2-M10x60	102 4.016	141.5 5.571	47 1.85
80 3	88.9 3.5	300 2.07	2-M12x65	117 4.606	164.5 6.476	47.5 1.87
100 4	108 4.25	300 2.07	2-M12x70	138.5 5.453	186 7.323	52 2.047
100 4	114.3 4.5	300 2.07	2-M12x70	140.5 5.531	188 7.402	52 2.047
125 5	139.7 5.5	300 2.07	2-M12x75	167.5 6.595	219 8.622	52 2.047
125 5	141.3 5.563	300 2.07	2-M12x75	167.5 6.595	219 8.622	52 2.047
150 6	159 6.25	300 2.07	2-M12x75	190 7.480	240 9.449	52.5 2.067
150 6	165.1 6.5	300 2.07	2-M12x75	193 7.598	243 9.567	52.5 2.067
150 6	168.3 6.625	300 2.07	2-M12x75	200 7.874	249 9.803	52.5 2.067
200 8	216.3 8.516	300 2.07	2-M16x110	251 9.882	312 12.283	64 2.52
200 8	219.1 8.625	300 2.07	2-M16x110	251 9.882	320 12.598	64 2.52
250 10	267 10.512	300 2.07	2-M22x155	307 12.087	392 15.433	66 2.60
250 10	273 10.748	300 2.07	2-M22x155	316 12.441	400 15.748	66 2.60
300 12	323.9 12.752	300 2.07	2-M24 x 165	376.5 14.823	464 18.268	66 2.60

Grooved Elbow 90 Deg Long - GJ1090L

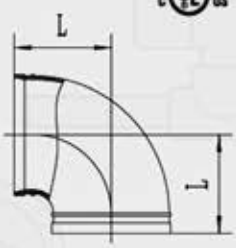
- They feature less friction loss compared to short radius.
- Grooved elbow are primarily designed for fire protection applications and other related grooved piping systems. It can also be used for general services.
- The elbow housings are made up of Ductile Iron confirming to ASTM A536 and the grooving standards AWWA C606 with rated working pressure up to 500 psi.
- Available with hot dipped galvanised coating as optional



SIZE DN in	Pipe O.D mm/in	Working Pressure PSI/MPa	L mm/in
25 1	33.7 1.315	400 2.75	57 2.24
32 1 ¼	42.4 1.660	400 2.75	70 2.755
40 1 ½	48.3 1.900	400 2.75	70 2.755
50 2	57.0 2.244	400 2.75	83 3.267
50 2	60.3 2.375	400 2.75	83 3.267
65 2 ½	73.0 2.875	400 2.75	95 3.74
65 2 ½	76.1 3.000	400 2.75	95 3.74
80 3	88.9 3.500	400 2.75	108 4.251
100 4	108.0 4.252	400 2.75	127 5
100 4	114.3 4.500	400 2.75	127 5
125 5	133.0 5.250	400 2.75	140 5.511
125 5	139.7 5.500	400 2.75	140 5.511
125 5	141.3 5.563	400 2.75	140 5.511
150 6	159.0 6.260	400 2.75	165 6.496
150 6	165.1 6.500	400 2.75	165 6.496
150 6	168.3 6.625	400 2.75	165 6.496
200 8	219.1 8.625	400 2.75	197 7.755
250 10	273.0 10.750	300 2.07	229 9.015
300 12	323.9 12.750	300 2.07	254 10
350 14	377.0 14.843	300 2.07	

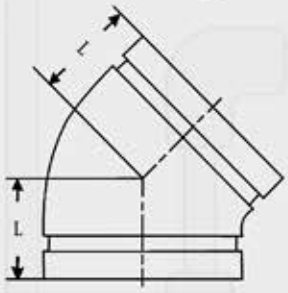
Grooved Elbow 90 Deg Short - GJ1590S

- Grovjoint elbows 90 are deigned to provide uniform flow and minimal pressure drop.
- They are primarily designed for fire protection applications and other related grooved piping systems. It can be also used for general services.
- Elbow housings are made up of Ductile Iron confirming to ASTM A536 and the grooving standards AWWA C606 with rated working pressure up to 500 psi.
- Available with hot dipped galvanised coating as optional



SIZE DN in	Pipe O.D mm/in	Working Pressure PSI/MPa	L mm/in
25 1	33.7 1.315	400 2.75	57 2.244
32 1 ¼	42.4 1.660	400 2.75	60 2.362
40 1 ½	48.3 1.900	400 2.75	60 2.362
50 2	57.0 2.244	400 2.75	70 2.755
50 2	60.3 2.375	400 2.75	70 2.755
65 2 ½	73.0 2.875	400 2.75	76 2.992
65 2 ½	76.1 3.000	400 2.75	76 2.992
80 3	88.9 3.500	400 2.75	86 3.386
100 4	108.0 4.252	400 2.75	101.5 3.996
100 4	114.3 4.500	400 2.75	101.5 3.996
125 5	133.0 5.250	400 2.75	122 4.803
125 5	139.7 5.500	400 2.75	122 4.803
125 5	141.3 5.563	400 2.75	122 4.803
150 6	159.0 6.260	300 2.07	140 5.511
150 6	165.1 6.500	300 2.07	140 5.511
150 6	168.3 6.625	300 2.07	140 5.511
200 8	219.1 8.625	300 2.07	175 6.889
250 10	273.0 10.750	300 2.07	215 8.464
300 12	323.9 12.750	300 2.07	245 9.645
350 14	377.0 14.843	300 2.07	280 11.024

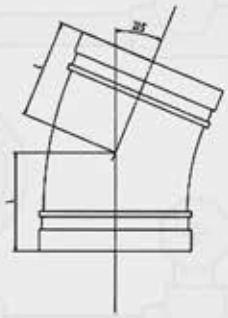
- Grooved elbow 45° features short center to end dimensions and it helps easier installations in less space.
- They are primarily designed for fire protection applications and other related grooved piping system, it can also be used for general services.
- Elbow housings are made of Ductile Iron confirming to ASTM A536 and the grooving standards AWWA C606 with rated working pressure up to 500 psi.
- Available with hot dipped galvanised coating as optional



SIZE DN in	Pipe O.D mm/in	Working Pressure PSI/MPa	L mm/in
25 1	33.7 1.315	400 2.75	38 1.496
32 1 ¼	42.4 1.660	400 2.75	44 1.732
40 1 ½	48.3 1.900	400 2.75	44 1.732
50 2	60.3 2.375	400 2.75	51 2.007
65 2 ½	73.0 2.875	400 2.75	57 2.244
65 2 ½	76.1 3.000	400 2.75	57 2.244
80 3	88.9 3.500	400 2.75	64 2.519
100 4	108.0 4.252	400 2.75	76 2.992
100 4	114.3 4.500	400 2.75	76 2.992
125 5	133.0 5.250	400 2.75	83 3.267
125 5	139.7 5.500	400 2.75	83 3.267
125 5	141.3 5.563	400 2.75	83 3.267
150 6	159.0 6.260	400 2.75	89 3.503
150 6	165.1 6.500	400 2.75	89 3.503
150 6	168.3 6.625	400 2.75	89 3.503
200 8	219.1 8.625	400 2.75	108 4.251
250 10	273.0 10.750	300 2.07	121 4.763
300 12	323.9 12.750	300 2.07	133 5.236

Grooved Elbow 22.5 Deg - GJ1222R

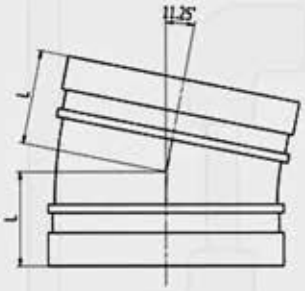
- Grooved elbow 22.5° features short center to end dimensions and it helps easier installations in less space.
- They are primarily designed for fire protection applications and other related grooved piping system, it can also be used for general services.
- Elbow housings are made of Ductile Iron confirming to ASTM A536 and the grooving standards AWWA C606 with rated working pressure up to 500 psi.
- Available with hot dipped galvanised coating as optional



SIZE DN in	Pipe O.D mm/in	Working Pressure PSI/MPa	L mm/in
25 1	33.7 1.315	400 2.75	41 1.61
32 1 ¼	42.4 1.660	400 2.75	44 1.732
40 1 ½	48.3 1.900	400 2.75	44 1.732
50 2	60.3 2.375	400 2.75	51 2
65 2 ½	73.0 2.875	400 2.75	51 2
65 2 ½	76.1 3.000	400 2.75	51 2
80 3	88.9 3.500	400 2.75	57 2.244
100 4	108.0 4.252	400 2.75	73 2.874
100 4	114.3 4.500	400 2.75	73 2.874
125 5	133.0 5.250	400 2.75	73 2.874
125 5	139.7 5.500	400 2.75	73 2.874
125 5	141.3 5.563	400 2.75	73 2.874
150 6	159.0 6.260	400 2.75	79 3.11
150 6	165.1 6.500	400 2.75	79 3.11
150 6	168.3 6.625	400 2.75	79 3.11
200 8	219.1 8.625	400 2.75	98 3.858
250 10	273.0 10.750	300 2.07	111 4.37
300 12	323.9 12.750	300 2.07	124 4.88

Grooved Elbow 11.25 Deg - GJ1311R

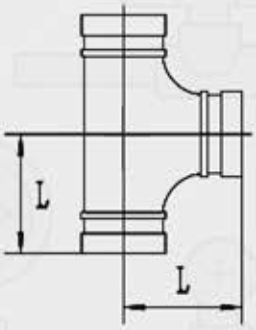
- Grooved elbow features short center to end dimensions and it helps easier installations in less space.
- They are primarily designed for fire protection applications and other related grooved piping system, it can also be used for general services.
- Elbow housings are made of Ductile Iron confirming to ASTM A536 and the grooving standards AWWA C606 with rated working pressure up to 500 psi.
- Available with hot dipped galvanised coating as optional



SIZE DN in	Pipe O.D mm/in	Working Pressure PSI/MPa	L mm/in
25 1	33.7 1.315	400 2.75	35 1.377
32 1 ¼	42.4 1.660	400 2.75	35 1.377
40 1 ½	48.3 1.900	400 2.75	35 1.377
50 2	60.3 2.375	400 2.75	35 1.377
65 2 ½	73.0 2.875	400 2.75	38 1.496
65 2 ½	76.1 3.000	400 2.75	38 1.496
80 3	88.9 3.500	400 2.75	38 1.496
100 4	108.0 4.252	400 2.75	44 1.732
100 4	114.3 4.500	400 2.75	48 1.889
125 5	133.0 5.250	400 2.75	51 2.007
125 5	139.7 5.500	400 2.75	51 2.007
125 5	141.3 5.563	400 2.75	51 2.007
150 6	159.0 6.260	400 2.75	51 2.007
150 6	165.1 6.500	400 2.75	51 2.007
150 6	168.3 6.625	400 2.75	51 2.007
200 8	219.1 8.625	400 2.75	51 2.007
250 10	273.0 10.750	300 2.07	54 2.125
300 12	323.9 12.750	300 2.07	57 2.244

Grooved Equal Tee Long Radius - GJET11L

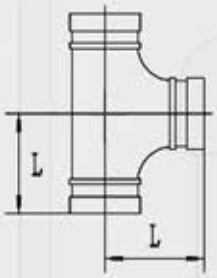
- Grovjoint equal tee are designed to join two pipes of equal diameter which are perpendicular to the direction of flow
- They provide minimal pressure drop. They are primarily designed for fire protection applications and other related grooved piping system. It can also be used for general services.
- Grooved tee housings are made up of Ductile Iron confirming to ASTM A536 and the grooving standards AWWA C606 with rated working pressure up to 500 psi.
- Available with hot dipped galvanised coating as optional



Size DN Inch	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension L mm/in
25 1	33.7 1.315	400 2.75	57 2.244
32 1 ¼	42.4 1.660	400 2.75	70 2.755
40 1 ½	48.3 1.900	400 2.75	70 2.755
50 2	60.3 2.375	400 2.75	83 3.267
65 2 ½	73.0 2.875	400 2.75	95 3.74
65 2 ½	76.1 3.000	400 2.75	95 3.74
80 3	88.9 3.500	400 2.75	108 4.251
100 4	108.0 4.252	400 2.75	127 5
100 4	114.3 4.500	400 2.75	127 5
125 5	133.0 5.250	400 2.75	140 5.511
125 5	139.7 5.500	400 2.75	140 5.511
125 5	141.3 5.563	400 2.75	140 5.511
150 6	159.0 6.260	400 2.75	165 6.496
150 6	165.1 6.500	400 2.75	165 6.496
150 6	168.3 6.625	400 2.75	165 6.496
200 8	219.1 8.625	400 2.75	197 7.755
250 10	273.0 10.750	300 2.07	229 9.015
300 12	323.9 12.750	300 2.07	254 10

Equal Tee Short Radius - GJET17S

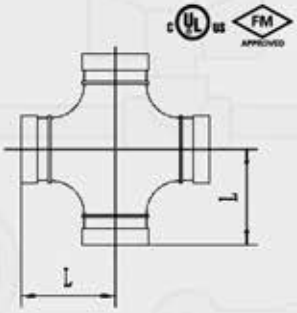
- Grovjoint equal tee are designed to join two pipes of equal diameter which are perpendicular to the direction of flow
- They provide minimal pressure drop. They are primarily designed for fire protection applications and other related grooved piping system. It can also be used for general services.
- Grooved tee housings are made up of Ductile Iron confirming to ASTM A536 and the grooving standards AWWA C606 with rated working pressure up to 500 psi.
- Available with hot dipped galvanised coating as optional



Size DN Inch	Pipe O.D mm/in	Working Pressure PSI/MPa	Dim nsion L mm/in
25 1	33.7 1.315	400 2.75	57 2.244
32 1 ¼	42.4 1.660	400 2.75	60 2.362
40 1 ½	48.3 1.900	400 2.75	60 2.362
50 2	60.3 2.375	400 2.75	70 2.755
65 2 ½	73.0 2.875	400 2.75	76 2.992
65 2 ½	76.1 3.000	400 2.75	76 2.992
80 3	88.9 3.500	400 2.75	86 3.386
100 4	108.0 4.252	400 2.75	101.5 3.996
100 4	114.3 4.500	400 2.75	101.5 3.996
125 5	133.0 5.250	400 2.75	122 4.803
125 5	139.7 5.500	400 2.75	122 4.803
125 5	141.3 5.563	400 2.75	122 4.803
150 6	159.0 6.260	300 2.07	140 5.511
150 6	165.1 6.500	300 2.07	140 5.511
150 6	168.3 6.625	300 2.07	140 5.511
200 8	219.1 8.625	300 2.07	175 6.889
250 10	273.0 10.750	300 2.07	215 8.464
300 12	323.9 12.750	300 2.07	245 9.645

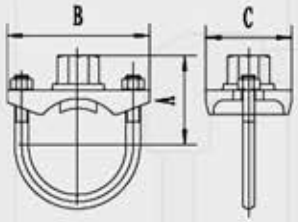
Grooved Cross Tee - GJXT35G

- Grovjoint cross tee are designed to join same diameter pipes which are perpendicular to the direction of flow.
- They provide minimal pressure drop. They are primarily designed for fire protection applications and other related grooved piping systems. It can also be used for general services.
- Grooved tee housings are made up of Ductile Iron confirming to ASTM A536 with rated working pressure up to 500 psi.
- Available with hot dipped galvanised coating as optional



Size DN Inch	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension L mm/in
50 2	60.3 2.375	400 2.75	70 2.755
65 21/2	73.0 2.875	400 2.75	76 2.992
65 21/2	76.1 3.000	400 2.75	76 2.992
80 3	88.9 3.500	400 2.75	86 3.386
100 4	108.0 4.252	400 2.75	101.5 3.996
100 4	114.3 4.500	400 2.75	101.5 3.996
125 5	139.7 5.500	400 2.75	122 4.803
150 6	159.0 6.260	300 2.07	140 5.511
150 6	165.1 6.500	300 2.07	140 5.511
150 6	168.3 6.625	300 2.07	140 5.511
200 8	219.1 8.625	300 2.07	175 6.889
250 10	273.0 10.750	300 2.07	215 8.464

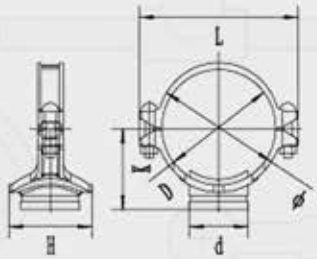
- Mechanical tee eliminates need for welding or cuttings of the pipe mains for branch outlets.
- Mechanical Tee housings are made up of Ductile Iron confirming to ASTM A536 and the rubber gaskets are made by EPDM with rated working pressure up to 500 psi.
- Available with hot dipped galvanised coating as optional



Normal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	U-Bolt Size No-Size mm	Dimensions mm/in			Hole cutting dimensions mm/in
				A	B	C	
25x15 1x1/2	33.7x21.3 1.327x0.839	300 2.07	M10x25	49 1.929	76 2.992	43 1.654	24 0.945
25x20 1x3/4	33.7x26.9 1.327x1.059	300 2.07	M10x25	58 2.283	84 3.307	43 1.693	24 0.945
32x15 11/4x1/2	42.4x21.3 1.669x0.839	300 2.07	M10x28.5	43 1.693	90 3.543	56 2.205	30 1.181
32x20 11/4x3/4	42.4x26.9 1.669x1.059	300 2.07	M10x28.5	45 1.772	90 3.543	56 2.205	30 1.181
32x25 11/4x1	42.4x33.7 1.669x1.327	300 2.07	M10x28.5	50 1.969	90 3.543	56 2.205	32 1.181
40x15 11/2x1/2	48.3x21.3 1.900x0.839	300 2.07	M10x28.5	43 1.693	93 3.661	59 2.323	30 1.181
40x20 11/2x3/4	48.3x26.9 1.900x1.059	300 2.07	M10x28.5	54 2.126	93 3.661	59 2.323	30 1.181
40x25 11/2x1	48.3x33.7 1.900x1.327	300 2.07	M10x28.5	58 2.283	93 3.661	59 2.323	32 1.181
50x15 2x1/2	60.3x21.3 2.375x0.839	300 2.07	M10x30	54 2.126	96 3.780	59 2.323	30 1.181
50x20 2x3/4	60.3x26.9 2.375x1.059	300 2.07	M10x30	56 2.205	96 3.780	59 2.323	30 1.181
50x25 2x1	60.3x33.7 2.375x1.327	300 2.07	M10x30	66 2.598	96 3.780	59 2.323	32 1.181
65x15 21/2x1/2	73.1x21.3 2.878x0.839	300 2.07	M10x30	60 2.362	110 4.331	59 2.323	30 1.181
65x20 21/2x3/4	73.1x26.9 2.878x1.059	300 2.07	M10x30	63 2.480	110 4.331	59 2.323	30 1.181
65x25 21/2x1	73.1x33.7 2.878x1.327	300 2.07	M10x30	70 2.756	110 4.331	59 2.323	32 1.181
65x15 21/2x1/2	76.1x21.3 2.996x0.839	300 2.07	M10x30	61 2.402	110 4.331	59 2.323	30 1.181
65x20 21/2x3/4	76.1x26.9 2.996x1.059	300 2.07	M10x30	67 2.638	110 4.331	59 2.323	30 1.181
65x25 21/2x1	76.1x33.7 2.847x1.327	300 2.07	M10x30	74 2.913	110 4.331	59 2.323	32 1.181

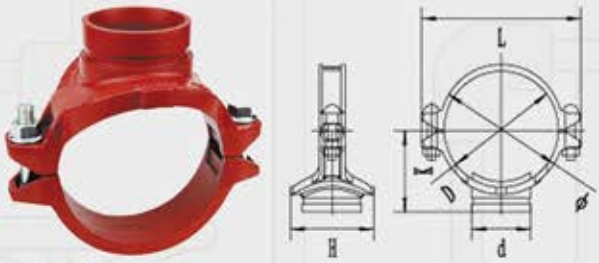
Mechanical Tee Grooved Ends - GJMT15G

- Mechanical tees are fast and simple way to provide a grooved connection along the length of the pipe.
- It provides quick and economic connection of smaller branch pipes with cross mains or riser pipes.
- After a hole is drilled in the pipe where in the connection area, just connect the clamps around the pipe for a grooved connection.
- The mechanical tee eliminates the need for welding and the use of multiple fittings.
- Mechanical Tee housings are made of Ductile Iron confirming to ASTM A536 and the rubber gaskets are made by EPDM with rated working pressure up to 500 psi.
- Available with hot dipped galvanised coating as optional



Normal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	U-Bolt Size No-Size mm	Dimensions mm/in				Hole cutting dimensions mm/in
				O	L	K	H	
50x32 2x1 ¼	60.3x42.4 2.375x1.669	300 2.07	2-M10x55	74 2.913	116 4.566	59 2.322	69 2.716	46 1.811
50x40 2x1 ½	60.3x48.3 2.375x1.900	300 2.07		78 3.07	116 4.566	59 2.322	69 2.716	46 1.811
65x25 2 ½ x1	73x33.7 2.87x1.327	300 2.07		93 3.661	144 5.669	70 2.755	77 2.716	38 1.496
65x32 2 ½ x1 ¼	73x42.4 2.87x1.669	300 2.07		93 3.661	144 5.669	65 2.559	84 3.307	51 2.007
65x40 2 ½ x1 ½	73x48.3 2.87x1.900	300 2.07	2-M12x60	93 3.661	144 5.669	75 2.952	83 3.267	51 2.007
65x25 2 ½x1	76.1x33.7 2.996x1.327	300 2.07		93 3.661	144 5.669	70 2.755	77 2.716	38 1.496
65x32 2 ½ x1 ¼	76.1x42.4 2.996x1.669	300 2.07		93 3.661	144 5.669	70 2.755	84 3.307	46 1.811
65x40 2 ½ x1 ½	76.1x48.3 2.996x1.900	300 2.07		93 3.661	144 5.669	70 2.755	83 3.267	51 2.007
80x25 3x1	88.9x33.7 3.500x1.327	300 2.07		104 4.094	152 5.984	76 2.755	78 3.070	38 1.496
80x32 3x11/4	88.9x42.4 3.500x1.669	300 2.07		104 4.094	152 5.984	76 2.755	82 3.228	46 1.811
80x40 3x1 ½	88.9x48.3 3.500x1.900	300 2.07		104 4.094	152 5.984	77 2.755	91 3.582	51 2.007
80x50 3x2	88.9x60.3 3.500x2.376	300 2.07		114 4.488	152 5.984	82 3.228	97 2.402	61 2.402
100x25 4x1	114.3x33.7 4.500x1.327	300 2.07		133 5.236	188 7.401	93 3.661	77 3.031	38 1.496
100x32 4x1 ¼	114.3x42.4 4.500x1.669	300 2.07	2-M12x65	133 5.236	186 7.322	93 3.661	83 3.267	46 1.811
100x40 4x1 ½	114.3x48.3 4.500x1.900	300 2.07		133 5.236	186 7.322	93 3.661	92 3.622	51 2.007
100x50 4x2	114.3x60.3 4.500x2.376	300 2.07		140 5.512	188 7.402	93 3.661	97 3.819	61 2.402
100x65 4x2 ½	114.3x73 4.500x2.874	300 2.07		140 5.512	180 7.086	98 3.858	103 4.055	70 2.756
100x65 4x2 ½	114.3x76.1 4.500x2.996	300 2.07		140 5.512	188 7.402	97 3.819	123 4.843	81 3.189
100x80 4x3	114.3x88.9 4.500x3.500	300 2.07		140 5.512	188 7.402	97 3.819	125 4.921	86 3.386
125x25 5x1	139.7x33.7 5.500x1.327	300 2.07		168 6.614	220 8.661	107 4.213	77 3.031	38 1.496
125x32 5x1 ¼	139.7x42.4 5.500x1.669	300 2.07		168 6.614	220 8.661	107 4.213	83 3.268	46 1.811
125x40 5x1 ½	139.7x48.3 5.500x1.900	300 2.07	2-M16x75	168 6.614	220 8.661	107 4.213	92 3.622	51 2.008
125x50 5x2	139.7x60.3 5.500x2.375	300 2.07		168 6.614	220 8.661	107 4.213	97 3.819	61 2.402
125x65 5x2 ½	139.7x76.1 5.500x2.996	300 2.07		168 6.614	220 8.661	107 4.213	123 4.843	81 3.189
125x80 5x3	139.7x88.9 5.500x3.500	300 2.07		168 6.614	220 8.661	107 4.213	136 5.354	86 3.386
150x65 6x2 ½	159.0x76.1 6.260x2.996	300 2.07		168 6.614	220 8.661	107 4.213	123 4.843	81 3.189
150x80 6x3	159.0x88.9 6.260x3.500	300 2.07		187 7.362	242 9.528	117 4.606	136 5.354	86 3.386

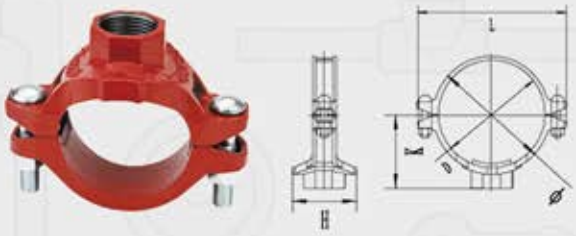
- Mechanical tees are fast and simple way to provide a grooved connection along the length of the pipe.
- It provides quick and economic connection of smaller branch pipes with cross mains or riser pipes.
- After a hole is drilled in the pipe where in the connection area, just connect the clamps around the pipe for a grooved connection.
- The mechanical tee eliminates the need for welding and the use of multiple fittings.
- Mechanical Tee housings are made of Ductile Iron confirming to ASTM A536 and the rubber gaskets are made by EPDM with rated working pressure up to 500 psi.
- Available with hot dipped galvanised coating as optional



Normal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	U-Bolt Size No-Size mm	Dimensions mm/in				Hole cutting dimensions mm/in
				O	L	K	H	
150x100 6x4	159.0x108.0 6.260x4.252	300 2.07		187 7.362	242 9.528	117 4.606	134 5.276	114 4.488
150x100 6x4	159.6x114.3 6.260x4.500	300 2.07		187 7.362	242 9.528	117 4.606	134 5.276	114 4.488
150x25 6x1	165.1x33.7 6.500x1.900	300 2.07		194 7.638	247 9.724	123 4.842	77 3.031	38 1.496
150x32 6x1 ¼	165.1x42.4 6.500x1.669	300 2.07		194 7.628	247 9.724	123 4.842	83 3.268	46 1.811
150x40 6x1 ½	165.1x48.3 6.500x1.900	300 2.07		194 7.638	247 9.724	123 4.842	92 3.622	51 2.008
150x50 6x2	165.1x60.3 6.500x2.375	300 2.07		194 7.638	247 9.724	123 4.842	97 3.819	61 2.402
150x65 6x2 ½	165.1x76.1 6.500x2.996	300 2.07		194 7.638	247 9.724	125 4.921	123 4.843	81 9.189
150x80 6x3	165.1x88.9 6.500x3.500	300 2.07		194 7.638	247 9.724	125 4.921	136 5.354	86 3.386
150x100 6x4	165.1x114.3 6.500x4.500	300 2.07		194 7.638	247 9.724	125 4.921	134 5.276	114 4.488
150x25 6x1	168.3x33.7 6.625x1.327	300 2.07		198 7.795	247 9.724	125 4.921	77 3.031	38 1.496
150x32 6x1 ¼	168.3x42.4 6.625x1.669	300 2.07		198 7.795	247 9.724	128 5.039	82 3.228	46 1.811
150x40 6x1 ½	168.3x48.3 6.625x1.900	300 2.07		198 7.795	247 9.724	128 5.039	92 3.622	51 2.007
150x50 6x2	168.3x60.3 8.625x2.375	300 2.07		198 7.795	247 9.724	128 5.039	98 3.858	61 2.401
150x65 6x2 ½	168.3x73 6.625x2.874	300 2.07	2-M16x85	198 7.795	250 9.842	125 4.921	108 4.251	70 2.756
150x65 6x2 ½	168.3x76.1 6.625x2.996	300 2.07		198 7.795	247 9.724	128 5.039	123 4.843	81 3.189
150x80 6x3	168.3x88.9 6.625x3.500	300 2.07		198 7.795	247 9.724	128 5.030	136 5.354	86 3.385
150x100 6x4	168.3x114.3 6.625x4.500	300 2.07		198 7.795	247 9.724	128 5.039	157 6.181	114 4.488
200x25 8x1	219.1x33.7 8.625x1.327	300 2.07		250 9.843	310 12.205	152 5.984	77 3.031	46 1.811
200x32 8x1 ¼	219.1x42.4 8.625x1.669	300 2.07		250 9.843	310 12.205	152 5.984	83 3.268	46 1.811
200x40 8x1 ½	219.1x48.3 8.625x1.900	300 2.07		250 9.843	310 12.205	152 5.984	92 3.622	51 2.008
200x50 8x2	219.1x60.3 8.625x2.375	300 2.07		250 9.843	310 12.205	152 5.984	97 3.819	61 2.402
200x65 8x2 ½	219.1x73 8.625x2.874	300 2.07		250 9.843	310 12.204	152 5.984	116 4.566	70 2.756
200x65 8x2 ½	219.1x76.1 8.625x2.996	300 2.07		250 9.843	310 12.205	152 5.984	130 5.118	81 3.189
200x80 8x3	219.1x88.9 8.625x3.500	300 2.07	2-M16x100	250 9.843	310 12.205	152 5.984	137 5.394	86 3.386
200x100 8x4	219.1x114.3 8.625x4.500	300 2.07		250 9.843	310 12.205	152 5.984	162 6.378	114 4.488
200x150 8x6	219.1x168.3 8.625x6.625	300 2.07		250 9.843	310 12.205	174 6.850	214 8.425	160 6.299
250x100 10x4	273.0x114.3 10.748x4.500	300 2.07	2-M22x130	309 12.165	376 14.803	186 7.323	162 6.378	114 4.488
250x125 10x6	273.0x139.7 10.748x5.500	300 2.07		309 12.165	376 14.803	186 7.323	186 7.323	135 5.315

Mechanical Tee Threaded - GJMT16T

- Mechanical tees are fast and simple way to provide a grooved connection along the length of the pipe.
- It provides quick and economic connection of smaller branch pipes with cross mains or riser pipes.
- After a hole is drilled in the pipe where in the connection area, just connect the clamps around the pipe for a grooved connection.
- The mechanical tee eliminates the need for welding and the use of multiple fittings.
- Mechanical Tee housings are made of Ductile Iron confirming to ASTM A536 and the rubber gaskets are made by EPDM with rated working pressure up to 500 psi.
- Available with hot dipped galvanised coating as optional



Normal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	U-Bolt Size No-Size mm	Dimensions mm/in				Hole cutting dimensions mm/in
				O	L	K	H	
40x25 1 ½ x1	48.3x33.7 1.900x1.327	300 2.07		67 2.637	112 4.409	56 2.204	61 2.401	32 1.259
50x15 2x ½	60.3x21.3 2.375x0.839	300 2.07	2-M10x45	75 2.953	116 4.567	57 2.362	69 2.717	38 1.496
50x20 2x ¾	60.3x26.9 2.375x1.059	300 2.07		75 2.953	116 4.567	57 2.362	69 2.717	38 1.496
50x25 2x1	60.3x33.7 2.375x1.327	300 2.07		75 2.953	116 4.567	60 2.362	69 2.717	38 1.496
50x32 2x 1¼	60.3x42.4 2.375x1.669	300 2.07		75 2.953	116 4.567	60 2.362	69 2.717	46 1.811
50x40 2x 1½	60.3x48.3 2.375x1.900	300 2.07		75 2.953	116 4.567	60 2.362	69 2.717	46 1.811
65x25 2½ x1	73x33.7 2.874x1.327	300 2.07	2-M10x55	93 3.661	136 5.354	62 2.441	77 3.031	38 1.496
65x32 2½ x1¼	73x42.4 2.874x1.669	300 2.07		93 3.661	144 5.669	65 2.559	84 3.307	51 2.007
65x40 2½ x 1½	73x48.3 2.874x1.901	300 2.07		93 3.661	144 5.669	60 2.362	83 3.267	51 2.008
65x50 2½ x2	73x60.3 2.874x2.375	300 2.07		93 3.661	136 5.354	78 3.071	85 3.346	61 2.402
65x20 2½ x ¾	76.1x26.9 2.996x1.059	300 2.07		102 4.016	144 5.669	67 2.637	77 3.031	38 1.496
65x25 2½x1	76.1x33.7 2.996x1.327	300 2.07		102 4.016	144 5.669	70 2.756	77 3.301	38 1.496
65x32 2 ½x 1¼	76.1x42.4 2.996x1.669	300 2.07		102 4.016	144 5.669	70 2.756	83 3.268	46 1.811
65x40 2½ x 1½	76.1x48.3 2.996x1.900	300 2.07		102 4.016	144 5.669	70 2.756	83 3.268	51 2.008
65x40 2½ x2	76.1x60.3 2.996x2.375	300 2.07		102 4.016	144 5.669	74 2.913	83 3.268	51 2.008
80x15 3x ½	88.9x21.3 3.600x0.839	300 2.07		102 4.016	152 5.984	73 2.874	77 3.031	38 1.496
80x20 3x ¾	88.9x26.9 3.500x1.059	300 2.07	2-M12x60	102 4.016	152 5.984	73 2.874	77 3.031	38 1.496
80x25 3x1	88.9x33.7 3.500x1.327	300 2.07		114 4.488	152 5.984	82 3.228	77 3.031	38 1.496
80x32 3x1¼	88.9x42.4 3.500x1.669	300 2.07		114 4.488	152 5.984	82 3.228	83 3.268	46 1.811
80x40 3x1½	88.9x48.3 3.500x1.900	300 2.07		114 4.488	152 5.984	82 3.228	92 3.622	51 2.008
80x50 3x2	88.9x60.3 3.500x2.375	300 2.07		114 4.488	152 5.984	82 3.228	99 3.898	61 2.402
100x25 4x1	108.0x33.7 4.252x1.327	300 2.07		135 5.315	172 6.772	87 3.425	77 3.031	38 1.496
100x32 4x1¼	108.0x42.4 4.252x1.669	300 2.07		135 5.315	172 6.772	87 3.425	83 3.268	46 1.811
100x40 4x1½	108.0x48.3 4.252x1.900	300 2.07		135 5.315	172 6.772	87 3.425	92 3.622	51 2.008
100x50 4x2	108.0x60.3 4.252x2.375	300 2.07		135 5.315	172 6.772	87 3.425	97 3.622	61 2.402
100x65 4x2½	108.0x76.1 4.252x2.996	300 2.07		135 5.315	172 6.772	87 3.425	112 4.409	70 2.756
100x25 4x1	114.3x33.7 4.500x1.327	300 2.07		140 5.512	188 7.402	93 3.661	77 3.031	38 1.496
100x32 4x1¼	114.3x42.4 4.500x1.669	300 2.07		140 5.512	188 7.402	93 3.661	83 3.268	46 1.811
100x40 4x1½	114.3x48.3 4.500x1.900	300 2.07		140 5.512	188 7.402	93 3.661	92 3.622	51 2.008
100x50 4x2	114.3x60.3 4.500x2.375	300 2.07	2-M12x65	140 5.512	188 7.402	93 3.661	97 3.819	61 2.402
100x65 4x2½	114.3x76.1 4.500x2.996	300 2.07		140 5.512	188 7.402	93 3.661	123 4.843	81 3.189
100x80 4x3	114.3x88.9 4.500x3.500	300 2.07		140 5.512	188 7.402	93 3.661	125 4.921	86 3.386
125x25 5x1	133.0x33.7 5.236x1.327	300 2.07		160 6.299	210 8.268	100 3.937	77 3.031	38 1.496
125x32 5x1¼	133.0x42.4 5.236x1.669	300 2.07		160 6.299	210 8.268	100 3.937	83 3.268	46 1.811
125x40 5x1½	133.0x48.3 5.236x1.900	300 2.07		160 6.299	210 8.268	100 3.937	92 3.622	51 2.008
125x50 5x2	133.0x60.3 5.236x2.375	300 2.07		160 6.299	210 8.268	100 3.937	97 3.819	61 2.402
125x65 5x2½	133.0x76.1 5.236x2.996	300 2.07		160 6.299	210 8.268	100 3.937	123 4.843	81 3.189
125x25 5x1	139.7x33.7 5.500x1.327	300 2.07	2-M16x75	168 6.614	220 8.661	100 3.937	77 3.031	38 1.496

- Mechanical tees are fast and simple way to provide a grooved connection along the length of the pipe.
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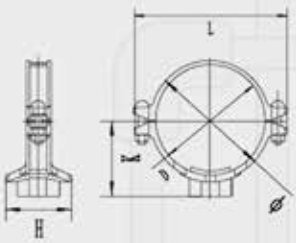
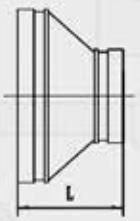
- Available with hot dipped galvanised coating as optional



Normal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	U-Bolt Size No-Size mm	Dimensions mm/in				Hole cutting dimensions mm/in
				O	L	K	H	
125x32 5x1¼	139.7x42.4 5.500x1.669	300 2.07		168 6.614	220 8.661	100 3.937	83 3.268	46 1.811
125x40 5x1½	139.7x48.3 5.500x1.900	300 2.07	2-M16x75	168 6.614	220 8.661	100 3.937	92 3.622	51 2.008
125x50 5x2	139.7x60.3 5.500x2.375	300 2.07		168 6.614	220 8.661	107 4.213	97 3.819	61 2.402
125x65 5x2½	139.7x76.1 5.500x2.996	300 2.07		168 6.614	220 8.661	107 4.213	123 4.843	81 3.189
125x80 5x3	139.7x88.9 5.500x3.500	300 2.07		168 6.614	220 8.661	107 4.213	136 5.354	86 3.386
150x25 6x1	159.0x33.7 6.260x1.327	300 2.07		187 7.362	242 9.528	117 4.606	77 3.031	38 1.496
150x32 6x1¼	159.0x42.4 6.260x1.669	300 2.07		187 7.362	242 9.528	117 4.606	83 3.268	46 1.811
150x40 6x1½	159.0x48.3 6.260x1.900	300 2.07		187 7.362	242 9.528	117 4.606	92 3.622	51 2.008
150x50 6x2	159.0x60.3 6.260x2.375	300 2.07	2-M16x75	187 7.362	242 9.528	117 4.606	97 3.819	61 2.402
150x65 6x2½	159.0x76.1 6.260x2.996	300 2.07		187 7.362	242 9.528	117 4.606	123 4.848	81 3.189
150x80 6x3	159.0x88.9 6.260x3.500	300 2.07		187 7.362	242 9.528	117 4.606	136 5.354	86 3.386
150x25 6x1	165.1x33.7 6.500x1.327	300 2.07		194 7.638	247 9.724	112 4.409	77 3.031	38 1.496
150x32 6x1¼	165.1x42.4 6.500x1.669	300 2.07		194 7.638	247 9.724	112 4.409	83 3.268	46 1.811
150x40 6x1½	165.1x48.3 6.500x1.900	300 2.07		194 7.638	247 9.724	112 4.409	92 3.622	51 2.008
150x50 6x2	165.1x60.3 6.500x2.375	300 2.07		194 7.638	247 9.724	116 4.567	97 3.819	61 2.402
150x65 6x2½	165.1x76.1 6.500x2.996	300 2.07		194 7.638	247 9.724	125 4.921	123 4.843	81 3.189
150x80 6x3	165.1x88.9 6.500x3.500	300 2.07		194 7.638	247 9.724	125 4.921	136 5.354	86 3.386
150x100 6x4	165.1x114.3 6.500x4.500	300 2.07		194 7.638	247 9.724	125 4.921	156 6.142	114 4.488
150x25 6x1	168.3x33.7 6.625x1.327	300 2.07		198 7.795	247 9.724	120 4.724	77 3.031	38 1.496
150x32 6x1¼	168.3x42.4 6.625x1.669	300 2.07		198 7.795	247 9.724	120 4.724	82 3.228	46 1.811
150x40 6x1½	168.3x48.3 6.625x1.900	300 2.07	2-M16x85	198 7.795	247 9.724	120 4.724	92 3.622	51 2.007
150x50 6x2	168.3x60.3 6.625x2.375	300 2.07		198 7.795	247 9.724	120 4.724	98 3.858	61 2.401
150x65 6x2½	168.3x76.1 6.625x2.996	300 2.07		198 7.795	247 9.724	120 4.724	123 4.843	81 3.189
150x80 6x3	168.3x88.9 6.625x3.500	300 2.07		198 7.795	247 9.724	120 4.724	136 5.354	86 3.386
200x25 8x1	219.1x33.7 8.625x1.327	300 2.07		250 9.843	310 12.205	146 5.748	77 3.031	46 1.811
200x32 8x1¼	219.1x42.4 8.625x1.669	300 2.07		250 9.843	310 12.205	146 5.748	83 3.268	46 1.811
200x40 8x1½	219.1x48.3 8.625x1.900	300 2.07		250 9.843	310 12.205	146 5.748	92 3.622	51 2.008
200x50 8x2	219.1x60.3 8.625x2.375	300 2.07		250 9.843	310 12.205	146 5.748	97 3.819	61 2.402
200x65 8x2½	219.1x76.1 8.625x2.996	300 2.07		250 9.843	310 12.205	146 5.748	130 5.118	81 3.189
200x80 8x3	219.1x88.9 8.625x3.600	300 2.07		250 9.843	310 12.205	146 5.748	137 5.394	86 3.386
200x100 8x4	219.1x114.3 8.625x4.500	300 2.07		250 9.843	310 12.205	146 5.748	162 6.378	114 4.488
250x40 10x1½	273.0x48.3 10.748x1.900	300 2.07	2-M16x100	309 9.843	376 12.205	174 5.748	92 3.622	51 2.008
250x50 10x2	273.0x60.3 10.748x2.375	300 2.07		309 9.843	376 12.205	174 5.748	97 3.819	61 2.402
250x65 10x2½	273.0x76.1 10.748x2.996	300 2.07		309 9.843	376 12.205	174 5.748	130 5.118	81 3.189
250x80 10x3	273.0x88.9 10.748x3.600	300 2.07		309 9.843	376 12.205	174 5.748	137 5.394	86 3.386
250x100 10x4	273.0x114.3 10.748x4.500	300 2.07		309 9.843	376 12.205	174 5.748	162 6.378	114 4.488

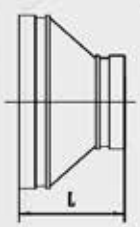
Grooved Concentric Reducer - GJCR40G

- Grooved Concentric Reducer designed for short center to end dimensions. It helps in easier installation.
- They are primarily used for fire protection applications and other related grooved piping system, can also be used for general services.
- The Concentric Reducer housings are made up of Ductile Iron confirming to ASTM A536 and the grooving standards AWWA C606 with maximum working pressure 500 psi.
- Available with hot dipped galvanised coating as optional



Normal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension L mm/in
32x25	42.4x33.7	400	64
1¼x1	1.669x1.327	2.75	2.52
40x25	48.3x33.7	400	64
1½x1	1.900x1.327	2.75	2.52
40x32	48.3x42.4	400	64
1½x1¼	1.900x1.669	2.75	2.52
50x25	60.3x33.7	400	64
2x1	2.375x1.327	2.75	2.52
50x32	60.3x42.4	400	64
2x1¼	2.375x1.669	2.75	2.52
50x40	60.3x48.3	400	64
2x1½	2.375x1.900	2.75	2.52
65x25	73x33.7	400	64
2½x1	2.87x1.327	2.75	2.52
65x32	73x42.4	400	64
2½x1¼	2.87x1.669	2.75	2.52
65x40	73x48.3	400	64
2½x1½	2.87x1.900	2.75	2.52
65x50	73x60.3	400	64
2½x2	2.87x2.375	2.75	2.52
65x25	76.1x33.7	400	64
2½x1	2.996x1.327	2.75	2.52
65x32	76.1x42.4	400	64
2½x1¼	2.996x1.669	2.75	2.52
65x40	76.1x48.3	400	64
2½x1½	2.996x1.900	2.75	2.52
65x50	76.1x60.3	400	64
2½x2	2.996x2.375	2.75	2.52
80x32	88.9x42.4	400	64
3x1¼	3.500x1.669	2.75	2.52
80x40	88.9x48.3	400	64
3x1½	3.500x1.900	2.75	2.52
80x50	88.9x60.3	400	64
3x2	3.500x2.375	2.75	2.52
80x65	88.9x73.0	400	64
3x2½	3.500x2.875	2.75	2.52
80x65	88.9x76.1	400	64
3x2½	3.500x3.000	2.75	2.52
100x50	114.3x60.3	400	76
4x2	4.500x2.375	2.75	3.00
100x65	114.3x73.00	400	76
4x2½	4.500x2.875	2.75	3.00
100x65	114.3x76.1	400	76
4x2½	4.500x3.000	2.75	3.00
100x80	114.3x88.9	400	76
4x3	4.500x3.500	2.75	3.00
125x50	139.7x60.3	400	89
5x2	5.500x2.375	2.75	3.50
125x65	139.7x76.1	400	89
5x2½	5.500x3.000	2.75	3.50

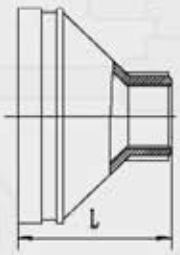
- Grooved Concentric Reducer designed for short center to end dimensions. It helps in easier installation.
- They are primarily used for fire protection applications and other related grooved piping system, can also be used for general services.
- The Concentric Reducer housings are made up of Ductile Iron confirming to ASTM A536 and the grooving standards AWWA C606 with maximum working pressure 500 psi.
- Available with hot dipped galvanised coating as optional



Normal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension L mm/in
125x80	139.7x88.9	400	89
5x3	5.500x3.500	2.75	3.50
125x100	139.7x114.3	400	89
5x4	5.500x4.500	2.75	3.50
150x50	165.1x60.3	400	102
6x2	6.500x2.375	2.75	4.02
150x65	165.1x76.1	400	102
6x2½	6.500x3.000	2.75	4.02
150x80	165.1x88.9	400	102
6x3	6.500x3.500	2.75	4.02
150x100	165.1x114.3	400	102
6x4	6.500x4.500	2.75	4.02
150x125	165.1x139.7	400	102
6x5	6.500x5.500	2.75	4.02
150x50	168.3x60.3	400	102
6x2	6.625x2.375	2.75	4.02
150x65	168.3x73	400	102
6x2½	6.625x2.875	2.75	4.02
150x65	168.3x76.1	400	102
6x2½	6.625x3.000	2.75	4.02
150x80	168.3x88.9	400	102
6x3	6.625x3.500	2.75	4.02
150x100	168.3x114.3	400	102
6x4	6.625x4.500	2.75	4.02
150x125	168.3x139.7	400	102
6x5	6.625x5.500	2.75	4.02
200x150	216.3x165.1	400	127
8x6	8.625x6.500	2.75	5.00
200x50	219.1x60.3	400	127
8x2	8.625x2.375	2.75	5.00
200x65	219.1x73	400	127
8x2½	8.625x2.875	2.75	5.00
200x65	219.1x76.1	400	127
8x2½	8.625x3.000	2.75	5.00
200x80	219.1x88.9	400	127
8x3	8.625x3.500	2.75	5.00
200x100	219.1x114.3	400	127
8x4	8.625x4.500	2.75	5.00
200x125	219.1x139.7	400	127
8x5	8.625x5.500	2.75	5.00
200x150	219.1x165.1	400	127
8x6	8.625x6.500	2.75	5.00
200x150	219.1x168.3	400	127
8x6	8.625x6.625	2.75	5.00
250x100	273.0x114.3	300	152
10x4	10.75x4.500	2.07	5.98
250x150	273.0x165.1	300	152
10x6	10.75x6.500	2.07	5.98
250x150	273.0x168.3	300	152
10x6	10.75x6.625	2.07	5.98
250x200	273.0x219.1	300	152
10x8	10.75x8.625	2.07	5.98
300x150	323.9x165.1	300	178
12x6	12.75x6.500	2.07	7.00
300x150	323.9x168.3	300	178
12x6	12.75x6.500	2.07	7.00
300x200	323.9x219.1	300	178
12x8	12.75x8.625	2.07	7.00
300x250	323.9x273	300	178
12x10	12.75x10.75	2.07	7.00

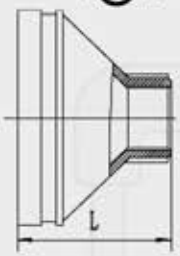
Grooved Concentric Reducer Threaded Ends - GJCR40T

- Grooved Concentric Reducer designed for short center to end dimensions. It helps in easier installation.
- They are primarily used for fire protection applications and other related grooved piping system, can also be used for general services.
- The Concentric Reducer housings are made up of Ductile Iron confirming to ASTM A536 and the grooving standards AWWA C606 with maximum working pressure 500 psi.
- Available with hot dipped galvanised coating as optional



Normal size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dim nsion L mm/in
40x25 1½x1	48.3x33.7 1.900x1.327	400 2.75	64 2.52
50x25 2x1	60.3x33.7 2.375x1.327	400 2.75	64 2.52
50x32 2x1¼	60.3x42.4 2.375x1.669	400 2.75	64 2.52
50x40 2x1½	60.3x46.3 2.375x1.900	400 2.75	64 2.52
65x25 2½x1	73x33.7 2.87x1.327	400 2.75	64 2.52
65x32 2½x1	73x42.4 2.87x1.669	400 2.75	64 2.52
65x40 2½x1	76.1x48.3 2.996x1.669	400 2.75	64 2.52
65x50 2½x1	73x60.3 2.87x2.375	400 2.75	64 2.52
65x25 2½x1	76.1x33.7 2.996x1.327	400 2.75	64 2.52
65x32 2½x1	76.1x42.4 2.996x1.669	400 2.75	64 2.52
65x40 2½x1	76.1x48.3 2.996x1.669	400 2.75	64 2.52
65x50 2½x1	76.1x60.3 2.996x2.375	400 2.75	64 2.52
80x25 3x1	88.9x33.7 3.500x1.327	400 2.75	64 2.52
80x32 3x1¼	88.9x42.4 3.500x1.669	400 2.75	64 2.52
80x40 3x1½	88.9x48.3 3.500x1.900	400 2.75	64 2.52
80x50 3x2	88.9x60.3 3.500x2.375	400 2.75	64 2.52
80x65 3x2½	88.9x73.0 3.500x2.875	400 2.75	64 2.52
80x65 3x2½	88.9x76.1 3.500x3.000	400 2.75	64 2.52
100x25 4x1	114.3x33.7 4.500x1.327	400 2.75	76 3.00
100x32 4x1¼	114.3x42.4 4.500x1.669	400 2.75	76 3.00
100x40 4x1½	114.3x48.3 4.500x1.900	400 2.75	76 3.00
100x50 4x2	114.3x60.3 4.500x2.375	400 2.75	76 3.00
100x65 4x2½	114.3x73.0 4.500x2.875	400 2.75	76 3.00
100x65 4x2½	114.3x76.1 4.500x3.000	400 2.75	76 3.00
100x80 4x3	114.3x88.9 4.500x3.500	400 2.75	76 3.00
125x25 5x1	139.7x33.7 5.500x1.327	400 2.75	89 3.50

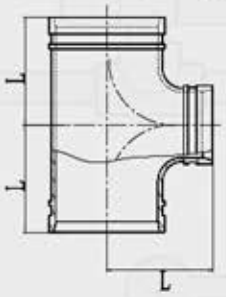
- Grooved Concentric Reducer designed for short center to end dimensions. It helps in easier installation.
- They are primarily used for fire protection applications and other related grooved piping system, can also be used for general services.
- The Concentric Reducer housings are made up of Ductile Iron confirming to ASTM A536 and the grooving standards AWWA C606 with maximum working pressure 500 psi.
- Available with hot dipped galvanised coating as optional



Normal size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension L mm/in
125x32 5x1¼	139.7x42.4 5.500x1.669	300 2.07	89 3.50
125x40 5x1½	139.7x48.3 5.500x1.900	300 2.07	89 3.50
125x50 5x2	139.7x60.3 5.500x2.375	300 2.07	89 3.50
125x65 5x2½	139.7x76.1 5.500x3.000	300 2.07	89 3.50
125x80 5x3	139.7x88.9 5.500x3.500	300 2.07	89 3.50
125x100 5x4	139.7x114.3 5.500x4.500	300 2.07	89 3.50
150x25 6x1	165.1x33.7 6.500x1.327	300 2.07	102 4.02
150x32 6x1¼	165.1x42.4 6.500x1.669	300 2.07	102 4.02
150x40 6x1½	165.1x48.3 6.500x1.900	300 2.07	102 4.02
150x50 6x2	165.1x60.3 6.500x2.375	300 2.07	102 4.02
150x65 6x2½	165.1x76.1 6.500x3.000	300 2.07	102 4.02
150x80 6x3	165.1x88.9 6.500x3.500	300 2.07	102 4.02
150x100 6x4	165.1x114.3 6.500x4.500	300 2.07	102 4.02
150x25 6x1	168.3x33.7 6.625x1.327	300 2.07	102 4.02
150x50 6x2	168.3x60.3 6.625x2.375	300 2.07	102 4.02
150x65 6x2½	168.3x76.1 6.625x3.000	300 2.07	102 4.02
150x80 6x3	168.3x88.9 6.625x3.500	300 2.07	102 4.02
200x50 8x2	219.1x60.3 8.625x2.375	300 2.07	127 5.00
200x65 8x2½	219.1x76.1 8.625x3.000	300 2.07	127 5.00
200x80 8x3	219.1x88.9 8.625x3.500	300 2.07	127 5.00

Grooved Reducing Tee Grooved Ends - GJRT15G

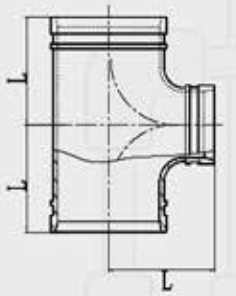
- Grovjoint reducing tee are designed to join different diameter pipes which are perpendicular to the direction of flow.
- They provide minimum pressure drop. They are primarily designed for fire protection applications and other related grooved piping system. It can also be used for general services.
- Grooved Reducing tee housings are made up of Ductile Iron confirming to ASTM A536 and the grooving standards AWWA C606 with rated working pressure up to 500 psi.
- The grooved reducing tee features short center to end dimensions and it helps easier installation in less space.
- Available with hot dipped galvanised coating as optional



Size DN Inch	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension L mm/in
40x32 1½x1¼	48.3x48.3x42.4 1.900x1.900x1.660	400 2.75	60 2.362
50x32 2x1¼	60.3x60.3x42.4 2.375x2.375x1.600	400 2.75	70 2.755
50x40 2x1½	60.3x60.3x48.3 2.375x2.375x1.900	400 2.75	70 2.755
65x25 2½x1	73.0x73.0x33.7 2.875x2.875x1.315	400 2.75	76 2.992
65x32 2½x1¼	73.0x73.0x42.4 2.875x2.875x1.660	400 2.75	76 2.992
65x40 2½x1½	73.0x73.0x48.3 2.875x2.875x1.900	400 2.75	76 2.992
65x50 2½x2	73.0x73.0x60.3 2.875x2.875x2.375	400 2.75	76 2.992
65x25 2½x1	76.1x76.1x33.7 3.000x3.000x1.315	400 2.75	76 2.992
65x32 2½x1¼	76.1x76.1x42.4 3.000x3.000x1.660	400 2.75	76 2.992
65x40 2½x1½	76.1x76.1x48.3 3.000x3.000x1.900	400 2.75	76 2.992
65x50 2½x2	76.1x76.1x60.3 3.000x3.000x2.375	232 1.6	76 2.992
80x25 3x1	88.9x88.9x33.7 3.500x3.500x1.315	400 2.75	86 3.386
80x32 3x1¼	88.9x88.9x42.4 3.500x3.500x1.660	400 2.75	86 3.386
80x40 3x1½	88.9x88.9x48.3 3.500x3.500x1.900	400 2.75	86 3.386
80x50 3x2	88.9x88.9x60.3 3.500x3.500x2.375	400 2.75	86 3.386
80x65 3x2½	88.9x88.9x73.0 3.500x3.500x2.875	400 2.75	86 3.386
80x65 3x2½	88.9x88.9x76.1 3.500x3.500x3.000	232 1.6	86 3.386
100x50 4x2	114.3x114.3x60.3 4.500x4.500x2.375	400 2.75	101.5 3.996
100x65 4x2½	114.3x114.3x73.0 4.500x4.500x2.875	400 2.75	101.5 3.996
100x65 4x2½	114.3x114.3x76.1 4.500x4.500x3.000	400 2.75	101.5 3.996
100x80 4x3	114.3x114.3x88.9 4.500x4.500x3.500	400 2.75	101.5 3.996
125x50 5x2	139.7x139.7x60.3 5.500x5.500x2.375	300 2.07	122 4.803
125x65 5x2½	139.7x139.7x76.1 5.500x5.500x3.000	300 2.07	122 4.803
125x80 5x3	139.7x139.7x88.9 5.500x5.500x3.500	300 2.07	122 4.803
125x100 5x4	139.7x139.7x114.3 5.500x5.500x4.500	300 2.07	122 4.803
150x50 6x2	165.1x165.1x60.3 6.500x6.500x2.375	400 2.75	140 5.511

Grooved Reducing Tee Grooved Ends - GJRT15G

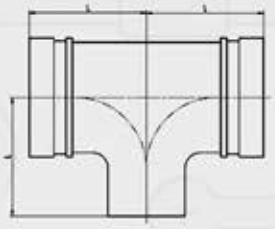
- Grovjoint reducing tee are designed to join different diameter pipes which are perpendicular to the direction of flow.
- They provide minimum pressure drop. They are primarily designed for fire protection applications and other related grooved piping system. It can also be used for general services.
- Grooved Reducing tee housings are made up of Ductile Iron confirming to ASTM A536 and the grooving standards AWWA C606 with rated working pressure up to 500 psi.
- The grooved reducing tee features short center to end dimensions and it helps easier installation in less space.
- Available with hot dipped galvanised coating as optional



Size DN Inch	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension L mm/in
150x65 6x2½	165.1x165.1x76.3 6.500x6.500x3.000	400 2.75	140 5.511
150x80 6x3	165.1x165.1x88.9 6.500x6.500x3.500	400 2.75	140 5.511
150x100 6x4	165.1x165.1x114.3 6.500x6.500x4.500	400 2.75	140 5.511
150x40 6x1½	168.3x168.3x48.3 6.625x6.625x1.900	400 2.75	140 5.511
150x50 6x2	168.3x168.3x60.3 6.625x6.625x2.375	400 2.75	140 5.511
150x65 6x2½	168.3x168.3x73.0 6.625x6.25x2.875	400 2.75	140 5.511
150x65 6x2½	168.3x168.3x76.3 6.625x6.625x3.000	400 2.75	140 5.511
150x80 6x3	168.3x168.3x88.9 6.625x6.625x3.500	400 2.75	140 5.511
150x100 6x4	168.3x168.3x114.3 6.625x6.625x4.500	400 2.75	140 5.511
150x125 6x5	168.3x168.3x139.7 6.625x6.625x5.500	400 2.75	140 5.511
200x50 8x2	219.1x219.1x60.3 8.625x8.625x2.375	400 2.75	175 6.889
200x65 8x2½	219.1x219.1x73.0 8.625x8.625x2.875	400 2.75	175 6.889
200x65 8x2½	219.3x219.3x76.3 8.625x8.625x3.000	400 2.75	175 6.889
200x80 8x3	219.1x219.1x88.9 8.625x8.625x3.500	400 2.75	175 6.889
200x100 8x4	219.1x219.1x114.3 8.625x8.625x4.500	400 2.75	175 6.889
200x125 8x5	219.1x219.1x139.7 8.625x8.625x5.500	400 2.75	175 6.889
200x150 8x6	219.1x219.1x165.1 8.625x8.625x6.500	400 2.75	175 6.889
200x150 8x6	219.1x219.1x168.3 8.625x8.625x6.625	400 2.75	175 6.889
250x100 10x4	273.0x273.0x114.3 10.750x10.750x4.500	300 2.07	229 9.015
250x125 10x5	273.0x273.0x139.7 10.750x10.750x5.500	300 2.07	229 9.015
250x150 10x6	273.0x273.0x165.1 10.750x10.750x6.500	300 2.07	229 9.015
250x200 10x8	273.0x273.0x219.1 10.750x10.750x8.625	300 2.07	229 9.015
300x100 12x4	323.9x323.9x114.3 12.750x12.750x4.500	300 2.07	254 10
300x150 12x6	323.9x323.9x165.1 12.750x12.750x6.500	300 2.07	254 10
300x200 12x8	323.9x323.9x219.1 12.750x12.750x8.625	300 2.07	254 10
300x250 12x10	323.9x323.9x273.0 12.750x12.750x10.75	300 2.07	254 10
80x100 3x4	88.9x88.9x114.3 3.500x3.500x4.500	365 2.52	86 3.386
80x150 3x6	88.9x88.9x165.1 3.500x3.500x6.500	365 2.52	86 3.386
100x150 4x6	114.3x114.3x165.1 4.500x4.500x6.500	365 2.52	101.5 3.996

Grooved Reducing Tee Threaded Ends - GJRT15T

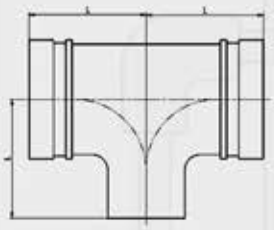
- Grovjoint reducing tee are designed to join different diameter pipes which are perpendicular to the direction of flow.
- They provide minimum pressure drop. They are primarily designed for fire protection applications and other related grooved piping system. It can also be used for general services.
- Grooved Reducing tee housings are made up of Ductile Iron confirming to ASTM A536 and the grooving standards AWWA C606 with rated working pressure up to 500 psi.
- The grooved reducing tee features short center to end dimensions and it helps easier installation in less space
- Available with hot dipped galvanised coating as optional



Normal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension L mm/in
32x25 1¼x1	42.4x42.4x33.7 1.660x1.600x1.315	232 1.6	60 2.362
40x25 1½x1	48.3x48.3x33.7 1.900x1.900x1.315	232 1.6	60 2.362
40x32 1½x1¼	48.3x48.3x42.4 1.900x1.900x1.660	232 1.6	60 2.362
50x25 2x1	60.3x60.3x33.7 2.375x2.375x1.315	300 2.07	70 2.755
50x32 2x1¼	60.3x60.3x42.4 2.375x2.375x1.660	300 2.07	70 2.755
50x40 2x1½	60.3x60.3x48.3 2.375x2.375x1.900	300 2.07	70 2.755
65x25 2½x1	73.0x73.0x33.7 2.875x2.875x1.315	400 2.75	76 2.992
65x32 2½x1¼	73.0x73.0x42.4 2.875x2.875x1.660	400 2.75	76 2.992
65x40 2½x1½	73.0x73.0x48.3 2.875x2.875x1.900	400 2.75	76 2.992
65x50 2½x2	73.0x73.0x60.3 2.875x2.875x2.375	400 2.75	76 2.992
65x25 2½x1	76.1x76.1x33.7 3.00x3.000x1.315	400 2.75	76 2.992
65x32 2½x1¼	76.1x76.1x42.4 3.000x3.000x1.660	400 2.75	76 2.992
65x40 2½x1½	76.1x76.1x48.3 3.000x3.000x1.900	400 2.75	76 2.992
65x50 2½x2	76.1x76.1x60.3 3.000x3.000x2.375	400 2.75	76 2.992
80x25 3x1	88.9x88.9x33.7 3.500x3.500x1.315	400 2.75	86 3.386
80x32 3x1¼	88.9x88.9x42.4 3.500x3.500x1.660	400 2.75	86 3.386
80x40 3x1½	88.9x88.9x48.3 3.500x3.500x1.900	400 2.75	86 3.386
80x50 3x2	88.9x88.9x60.3 3.500x3.500x2.375	400 2.75	86 3.386
80x65 3x2½	88.9x88.9x76.1 3.500x3.500x3.000	400 2.75	86 3.386
100x25 4x1	114.3x114.3x33.7 4.500x4.500x1.315	400 2.75	101.5 3.996
100x32 4x1¼	114.3x114.3x42.4 4.500x4.500x1.660	400 2.75	101.5 3.996

Grooved Reducing Tee Threaded Ends - GJRT15T

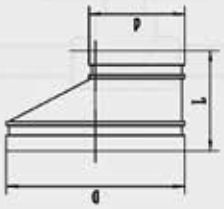
- Grovjoint reducing tee are designed to join different diameter pipes which are perpendicular to the direction of flow.
- They provide minimum pressure drop. They are primarily designed for fire protection applications and other related grooved piping system. It can also be used for general services.
- Grooved Reducing tee housings are made up of Ductile Iron confirming to ASTM A536 and the grooving standards AWWA C606 with rated working pressure up to 500 psi.
- The grooved reducing tee features short center to end dimensions and it helps easier installation in less space
- Available with hot dipped galvanised coating as optional



Normal Size mm/in	Pipe O.D mm/in	Working Pressure PSI/MPa	Dimension L mm/in
100x40 4x1½	114.3x114.3x48.3 4.500x4.500x1.900	400 2.75	101.5 3.996
100x50 4x2	114.3x114.3x60.3 4.500x4.500x2.375	400 2.75	101.5 3.996
100x65 4x2½	114.3x114.3x73.0 4.500x4.500x2.875	400 2.75	101.5 3.996
100x65 4x2½	114.3x114.3x76.1 4.500x4.500x3.000	400 2.75	101.5 3.996
100x80 4x3	114.3x114.3x88.9 4.500x4.500x3.500	400 2.75	101.5 3.996
125x25 5x1	139.7x139.7x33.7 5.500x5.500x1.315	400 2.75	122 4.803
125x32 5x1¼	139.7x139.7x42.4 5.500x5.500x1.660	400 2.75	122 4.803
125x40 5x1½	139.7x139.7x48.3 5.500x5.500x1.900	400 2.75	122 4.803
125x50 5x2	139.7x139.7x60.3 5.500x5.500x2.375	400 2.75	122 4.803
125x65 5x2½	139.7x139.7x76.1 5.500x5.500x3.000	400 2.75	122 4.803
125x80 5x3	139.7x139.7x88.9 5.500x5.500x3.500	400 2.75	122 4.803
150x25 6x1	165.1x165.1x33.7 6.500x6.500x1.315	400 2.75	140 5.511
150x32 6x1¼	165.1x165.1x42.4 6.500x6.500x1.660	400 2.75	140 5.511
150x40 6x1½	165.1x165.1x48.3 6.500x6.500x1.900	400 2.75	140 5.511
150x50 6x2	165.1x165.1x60.3 6.500x6.500x2.375	400 2.75	140 5.511
150x65 6x2½	165.1x165.1x76.3 6.500x6.500x3.000	400 2.75	140 5.511
150x80 6x3	165.1x165.1x88.9 6.500x6.500x3.500	400 2.75	140 5.511
150x100 6x4	165.1x165.1x114.3 6.500x6.500x4.500	400 2.75	140 5.511
150x32 6x1¼	168.3x168.3x42.4 6.625x6.625x1.660	400 2.75	140 5.511
150x40 6x1½	168.3x168.3x48.3 6.625x6.625x1.900	400 2.75	140 5.511
150x50 6x2	168.3x168.3x60.3 6.625x6.625x2.375	400 2.75	140 5.511
150x65 6x2½	168.3x168.3x76.3 6.625x6.625x3.000	400 2.75	140 5.511
150x80 6x3	168.3x168.3x88.9 6.625x6.625x3.500	400 2.75	140 5.511
200x80 8x3	219.1x219.1x88.9 8.625x8.625x3.500	400 2.75	175 6.889
200x100 8x4	219.1x219.1x114.3 8.625x8.625x4.500	400 2.75	175 6.889

Grooved Eccentric Reducer Grooved Ends - GJER45G

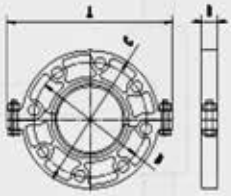
- Grooved Eccentric Reducer designed for short center to end dimensions. It helps in easier installation.
- They are primarily used for fire protection applications and other related grooved piping system, can also be used for general services.
- The Eccentric Reducer housings are made up of Ductile Iron confirming to ASTM A536 and the grooving standards AWWA C606 with maximum working pressure 500 psi.
- Available with hot dipped galvanised coating as optional



Normal Size mm/in	Pipe O.D Dimension mm/in	Working Pressure PSI/MPa	Dimension L mm/in
80x50 3x2	88.9x60.3 3.500x2.375	500 3.45	64 2.52
80x65 3x2½	88.9x73.0 3.500x2.875	500 3.45	64 2.52
80x65 3x2½	88.9x76.1 3.500x3.000	500 3.45	64 2.52
100x50 4x2	114.3x60.3 4.500x2.375	500 3.45	76 3.00
100x65 4x2½	114.3x73.0 4.500x2.875	500 3.45	76 3.00
100x65 4x2½	114.3x76.1 4.500x3.000	500 3.45	76 3.00
100x80 4x3	114.3x88.9 4.500x3.500	500 3.45	76 3.00
125x65 5x2½	139.7x76.1 5.500x3.000	500 3.45	89 3.50
125x80 5x3	139.7x88.9 5.500x3.500	500 3.45	89 3.50
125x100 5x4	139.7x114.3 5.500x4.500	500 3.45	89 3.50
150x50 6x2	159.0x60.3 6.250x2.375	500 3.45	102 4.02
150x65 6x2½	159.0x76.1 6.250x3.000	500 3.45	102 4.02
150x80 6x3	159.0x88.9 6.250x3.500	500 3.45	102 4.02
150x100 6x4	159.0x108.0 6.250x4.250	500 3.45	102 4.02
150x100 6x4	159.0x114.3 6.625x4.500	500 3.45	102 4.02
150x65 6x2½	165.1x76.1 6.500x3.000	500 3.45	102 4.02
150x80 6x3	165.1x88.9 6.500x3.500	500 3.45	102 4.02
150x100 6x4	165.1x114.3 6.500x4.500	500 3.45	102 4.02
150x125 6x5	165.1x139.7 6.500x5.500	500 3.45	102 4.02
150x80 6x3	168.3x88.9 6.625x3.500	500 3.45	102 4.02
150x100 6x4	168.3x114.3 6.625x4.500	500 3.45	102 4.02
150x125 6x5	168.3x139.7 6.625x5.500	500 3.45	102 4.02
200x80 8x3	219.1x88.9 8.625x3.500	500 3.45	127 5.00
500x100 8x4	219.1x114.3 8.625x4.500	500 3.45	127 5.00
200x125 8x5	219.1x139.7 8.625x5.500	500 3.45	127 5.00
200x150 8x6	219.1x165.1 8.625x6.500	500 3.45	127 5.00
200x150 8x6	219.1x168.3 8.625x6.625	500 3.45	127 5.00
250x150 10x6	273.0x165.1 10.75x6.500	500 3.45	152 5.98
250x150 10x6	273.0x168.3 10.75x6.625	500 3.45	152 5.98
250x200 10x8	273.0x219.1 10.75x8.625	500 3.45	152 5.98

Grooved Flange PN-16 (GJF14PN)

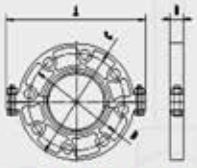
- Grooved flange provides a rigid transition to a grooved piping system without welding
- Flange body is made of Ductile Iron confirming to ASTM A536 and the rubber gaskets are made by EPDM with rated working pressure up to 300 psi.
- Available with hot dipped galvanised coating as optional



Normal Size mm/in	Pipe O.D mm/in Dimension	Working Pressure PSI/MPa	A mm/in	B mm/in	C mm/in	D mm/in	Bolt size No.-size mm
50 2	60.3 2.375	300 2.07	222 8.740	23 0.906	165 6.496	125 4.921	4-M10
65 2 ½	73 2.875	300 2.07	240 9.448	23 0.906	185 7.283	145 5.708	4-M16
65 2 ½	76.1 3.000	300 2.07	240 9.448	23 0.906	185 7.283	145 5.708	4-M16
80 3	88.9 3.500	300 2.07	252 9.921	23 0.906	192 7.559	160 6.299	8-M16
100 4	108 4.252	300 2.07	280 11.023	23 0.906	220 8.661	180 7.080	8-M16
100 4	114.3 4.500	300 2.07	280 11.023	23 0.906	220 8.661	180 7.086	8-M16
125 5	139.7 5.500	300 2.07	316 12.44	24 0.944	250 9.842	210 8.267	8-M16
125 5	141.3 5.563	300 2.07	324 12.75	24 0.944	250 9.842	210 8.267	8-M16
150 6	159 6.260	300 2.07	346 13.622	24 0.944	285 11.22	240 9.448	8-M16
150 6	168.3 6.625	300 2.07	346 13.622	24 0.944	285 11.22	240 9.448	8-M20
200 8	219.1 8.625	300 2.07	418 16.456	28 1.102	340 13.38	295 11.614	12-M20
250 10	273 8.625	300 2.07	500 19.685	27 1.063	405 15.945	355 13.976	12-M20

Grooved Flange ANSI Class-150 (GJFL14A)

- Grooved flange provides a rigid transition to a grooved piping system from a flanged component.
- Flange body is made up of Ductile Iron confirming to ASTM A536 and the rubber gaskets are made by EPDM with rated working pressure up to 300 psi.
- Grooved flanges are supplied as per ANSI class 150 drilling pattern as standard.
- Available with hot dipped galvanised coating as optional



Normal Size mm/in	Pipe O.D mm/in Dimension	Working Pressure PSI/MPa	A mm/in	B mm/in	C mm/in	D mm/in	Bolt size No.-size mm
50 2	60.3 2.375	300 2.07	200 8.110	22 0.866	152 5.984	121 4.763	4-M16
65	73.0 2.875	300 2.07	230 9.055	22 0.866	178 7.007	140 5.511	4-M16
80 3	88.9 3.500	300 2.07	242 9.527	24 0.944	191 7.519	152 5.984	4-M16
100 4	114.3 4.500	300 2.07	280 11.023	24 0.944	229 9.015	191 7.519	8-M16
125 5	139.7 5.500	300 2.07	325 17.795	24.5 0.964	254 10	216 8.503	8-M20
125 5	141.3 5.563	300 2.07	325 12.795	24.5 0.964	254 10	216 8.503	8-M20
150 6	168.3 6.625	300 2.07	345 13.583	24.5 0.964	282 11.102	241.5 9.508	8-M20
200 8	219.1 8.625	300 2.07	414.3 16.311	28 1.102	341.4 13.44	298.5 11.751	8-M20
250 10	273.0 10.75	150 1.04	500 19.685	30 1.181	406 15.945	362 14.252	12-M24

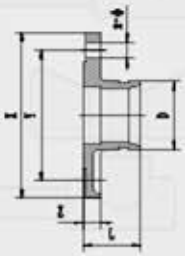
Grooved Flange Threaded PN-16 (GJFA19T)

- Threaded flange adaptor is designed to provide a rigid flanged component without welding
- Flange body is made of Ductile Iron confirming to ASTM A536 and threaded BSPT or NPT with rated working pressure up to 500 psi.
- Available with hot dipped galvanised coating as optional

Normal Size mm/in	Pipe O.D mm/in Dimension	Working Pressure PSI/MPa	Dimension mm/in				Bolt size No.-size mm
			L mm/in	X mm/in	Y mm/in	Z mm/in	
50 2 ½	60.3 2.375	300 2.07	32 1.306	165 6.496	125 4.92	19 0.748	4-M16
65 21/2	76.1 3.000	300 2.07	32 1.306	185 7.283	145 5.70	19 0.748	4-M16
80 3	88.9 3.500	300 2.07	34 1.388	200 7.874	150 6.29	19 0.748	8-M16
100 4	114.3 4.500	300 2.07	40 1.633	220 8.661	180 7.08	19 0.748	8-M16

Grooved Flange Adapter PN-16 (GJFA19P)

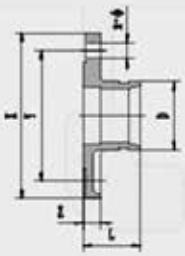
- Flange body is made of Ductile Iron confirming to ASTM A536 with rated working pressure up to 500 psi.
- Available with hot dipped galvanised coating as optional



Normal Size mm/in	Pipe O.D mm/in Dimension	Working Pressure PSI/MPa	Dimension mm/in				Bolt size No.-size mm
			L mm/in	X mm/in	Y mm/in	Z mm/in	
50 2	60.3 2.375	300 2.07	60.3 2.37	165 6.496	125 4.92	19 0.748	4-M16
65 2 ½	73.0 2.875	300 2.07	60.3 2.37	185 7.283	145 5.70	19 0.748	4-M16
65 2 ½	76.1 3.000	300 2.07	60.3 2.37	185 7.283	145 5.70	19 0.748	4-M16
80 3	88.9 3.500	300 2.07	60.3 2.37	200 7.874	160 6.29	19 0.748	8-M16
100 4	108.0 4.250	300 2.07	70 2.755	220 8.661	180 7.08	19 0.748	8-M16
100 4	114.3 4.500	300 2.07	70 2.755	220 8.661	180 7.08	19 0.748	8-M16
125 5	133.0 5.250	300 2.07	60.3 2.37	250 9.842	210 8.26	19 0.748	8-M16
125 5	139.7 5.500	300 2.07	60.3 2.37	250 9.842	210 8.26	19 0.748	8-M16
125 5	141.3 5.563	300 2.07	70 2.755	250 9.842	210 8.26	19 0.748	8-M16
150 6	159.0 6.250	300 2.07	70 2.755	285 11.22	240 9.448	19 0.748	8-M20
150 6	165.1 6.500	300 2.07	70 2.755	285 11.22	240 9.448	19 0.748	8-M20
150 6	168.3 6.625	300 2.07	70 2.755	285 11.22	240 9.448	19 0.748	8-M20
200 8	219.1 8.625	300 2.07	76.1 2.99	340 13.39	295 11.61	20 0.748	12-M20
250 10	273.0 10.750	300 2.07	85 3.346	405 15.944	355 13.97	22 0.866	12-M20
300 12	323.9 12.750	300 2.07	90 3.543	460 18.11	410 16.14	24.5 0.96	12- M20
350 14	377.0 14.843	300 2.07	100 3.937	520 20.47	470 18.50	24.5 1.02	16-M24

Grooved Flange Adapter ANSI (Class-150) (GJFA19A)

- Flange body is made of Ductile Iron confirming to ASTM A536 with rated working pressure up to 500 psi.
- Available with hot dipped galvanised coating as optional



Normal Size mm/in	Pipe O.D mm/in Dimension	Working Pressure PSI/MPa	Dimension mm/in				Bolt size No.-size mm
			L mm/in	X mm/in	Y mm/in	Z mm/in	
50 2	60.3 2.375	300 2.07	65 2.56	152 5.98	120.5 4.744	16 0.629	4-M16
65 2 ½	73.0 2.875	300 2.07	65 2.56	178 7.00	139.5 5.693	17.5 0.688	4-M16
80 3	88.9 3.500	300 2.07	65 2.56	190 7.48	152.5 6.00	19 0.748	4-M16
100 4	114.3 4.500	300 2.07	70 2.755	229 9.015	190.5 7.5	24 0.96	8-M16
125 5	141.3 5.562	300 2.07	70 2.755	254 10	216 8.503	24 0.96	8-M20
150 6	168.3 6.625	300 2.07	70 2.755	279 10.98	241.5 9.507	25.5 1.10	8-M20
200 8	219.1 8.625	300 2.07	82 3.228	343 13.50	298.5 11.751	28.5 1.112	8-M20
250 10	273.0 10.750	300 2.07	85 3.346	406 15.98	362 14.251	30 1.181	12-M24
300 12	323.9 12.750	300 2.07	90 3.543	483 19.01	432 17.00	32 1.259	12-M24

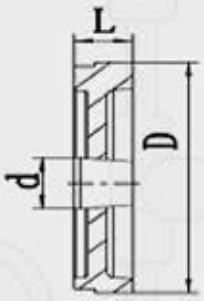
Grooved End Cap (GJCP55G)

- Grooved End Cap is designed to terminate grooved piping end for temporary or permanent basis.
- End Cap Body is made of Ductile Iron confirming to ASTM A536 and Grooving standards AWWA C606 with rated working pressure up to 500 psi.
- Available with hot dipped galvanised coating as optional

Size DN in	Pipe O.D mm/in Dimension	Working Pressure PSI/MPa	L mm/in
25 1	33.7 1.315	400 2.75	24.5 0.96
32 1¼	42.4 1.660	400 2.75	24.5 0.96
40 1½	48.3 1.900	400 2.75	24.5 0.96
50 2	60.3 2.375	400 2.75	24.5 0.96
65 2½	73.0 2.875	400 2.75	24.5 0.96
65 2½	76.1 3.000	400 2.75	24.5 0.96
80 3	88.9 3.500	400 2.75	24.5 0.96
100 4	108.0 4.252	400 2.75	25 0.99
100 4	114.3 4.500	400 2.75	25 0.99
125 5	133.0 5.250	400 2.75	25 0.99
125 5	139.7 5.500	400 2.75	25 0.99
150 6	159.0 6.260	400 2.75	25 0.99
150 6	165.1 6.500	300 2.07	25 0.99
150 6	168.3 6.625	300 2.07	25 0.99
200 8	219.1 8.625	400 2.75	30 1.81
250 10	273.0 10.750	300 2.07	32 1.259
300 12	323.9 12.752	300 2.07	32 1.259

Grooved End Cap (Threaded) (GJCP55T)

- Grooved Threaded End Cap is designed to terminate grooved piping end for temporary or permanent basis.
- End Cap Body is made of Ductile Iron confirming to ASTM and Grooving standards AWWA C606 with rated working pressure up to 500 psi.
- Available with hot dipped galvanised coating as optional



Normal Size mm/in	Pipe O.D mm/in Dimension	Working Pressure PSI/MPa	Dimension L mm/in
100x25 4x1	114.3x33.7 4.500x1.327	500 3.45	25 0.99
150x25 6x1	165.1x33.7 6.500x1.327	500 3.45	25 0.99
150x25 6x1	168.3x33.7 6.625x1.327	500 3.45	25 0.99
200x25 8x1	219.1x33.7 8.625x1.327	500 3.45	30 1.16
250x25 10x1	237x33.7 10.750x1.327	500 3.45	32 1.259

FLANGE DIMENSIONS - GJFL14A, GJF14PN, GJFA19A, GJFA19P

PIPE		MAX.* WORKING PRESSURE psi/kpa	NO.BOLT/NUT REQD. -SIZE INCH	SEALING SURFACE in./mm		DIMENSIONS in./mm						
NOMINAL SIZE	ACTUAL SIZE in./mm			X MIN.	Y MAX.	A			B			C
						ANSI	PN 10	PN 16	ANSI	PN 10	PN 16	
2"	2.375 60.3	300 2070	4/4 - 5/8x2 1/2	3.09 78.7	2.42 61.5	6.50 165.1	7.02 178.3	7.02 178.3	4.75 120.7	4.92 124.9	4.92 124.9	0.78 19.8
2 1/2"	2.875 73.0	300 2070	4/4 - 5/8x3	3.58 91.0	2.92 74.3	7.50 190.5	7.79 198.1	7.79 198.1	5.50 139.7	5.71 145.0	5.71 145.0	0.78 19.8
3" od	3.000 76.1	300 2070	4/4 - 5/8x3 (ANSI) 8/8-3/4x3 1/2 (PN 16)	3.70 94.1	3.05 77.5	7.50 190.5	7.79 198.1	7.79 198.1	5.50 139.7	5.71 145.0	5.71 145.0	0.78 19.8
3"	3.500 88.9	300 2070	4/4 - 5/8x3 (ANSI) 8/8-3/4x3 1/2 (PN 16)	4.21 106.9	3.56 90.3	8.00 203.2	8.39 213.2	8.39 213.2	6.00 152.4	6.30 160.0	6.30 160.0	0.78 19.8
4"	4.500 114.3	300 2070	8/8-5/8x3	5.26 133.6	4.57 116.0	10.00 253.7	9.66 245.5	9.66 245.5	7.50 190.5	7.08 179.9	7.08 179.9	1.00 25.4
5"	5.563 141.3	300 2070	8/8-3/4x3 1/2	6.41 162.8	5.65 143.4	11.00 279.4	10.76 273.4	10.76 273.4	8.50 216.0	8.26 210.0	8.26 210.0	1.00 25.4
5 1/2"od	5.500 139.7	300 2070	8/8-3/4x3 1/2	6.35 161.3	5.59 141.9	11.00 279.4	10.76 273.4	10.76 273.4	8.50 216.0	8.26 210.0	8.26 210.0	1.00 25.4
6"	6.625 168.3	300 2070	8/8-3/4x3 1/2	7.48 190.0	6.71 170.5	12.00 304.8	12.22 310.4	12.22 310.4	9.50 241.3	9.45 240.0	9.45 240.0	1.00 25.4
6 1/2"od	6.500 165.1	300 2070	8/8-3/4x3 1/2	7.35 186.8	6.59 167.5	12.00 304.8	12.22 310.4	12.22 310.4	9.50 241.3	9.45 240.0	9.45 240.0	1.00 25.4
8"	8.625 219.1	300 2070	8/8-3/4x3 1/2(ANSI&PN10) 12/12-3/4x3 1/2 (PN16)	9.58 243.3	8.70 221.0	14.50 368.3	14.37 365.1	14.37 365.1	11.75 298.4	11.61 295.0	11.61 295.0	1.12 28.6
10"	10.750 273.0	300 2070	12/12-7/8x4	11.54 293.0	10.84 275.4	18.00 456.8	17.52 444.8	17.71 449.8	14.25 362.0	13.78 350.0	13.98 355.0	1.18 30.0
12"	12.750 323.9	300 2070	12/12-7/8x4	13.58 345.0	12.84 326.2	21.00 533.8	19.56 496.8	20.15 511.8	17.00 432.0	15.75 400.0	16.14 410.0	1.26 32.0

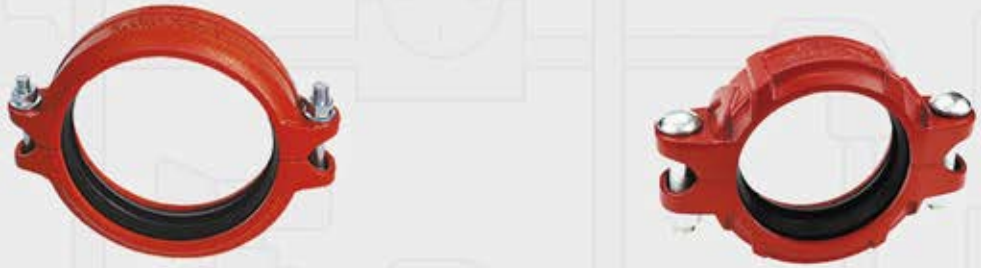
Grade	E		
Temperature Range	-30°F to +230°F -34°C to + 110°C		
Compound	EPDM Conforming to ASTM D2000 (2CA615A25B24F17Z)		
General Service Recommendations	Recommended for hot water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. UL classified in accordance with ANSI /NSF 61 for cold +86°F (+30°) andhot + 180° F (+82°C) portable water service.Not recommended for petroleum services.		
Chemical Services	Acetaldehyde	Bleach, 12% Active CP	Ethyl Cellulose
	Acetic Acid up to	Borax	Ethyl "cellosolve"
	I0% IOO°F (38""C)"	Bordeaux Mixture	Ethyl Chloride
	Acetic Anhydride	Boric Add	Ethyl Oxalate
	Acetone	Butanol (see Butyl Alcohol)	Ethylene Chlorohydrin
	Acetophenone	Butyl Acetate	Ethylene Glycol
	Acetylene	Butyl Acetyl Ricinoleate	Ferric Chloride, to 35%
	Alkalis	Butyl Alcohol	Ferric Chloride,
	Allyl Alcohol to 96%	Butyl "Cellosolve Adipate"	Saturated
	Alums	Butyl Phenol	Ferric Hydroxide
	Aluminum Chloride	Butylene Glycol	Fluoboric Acid
	Aluminum Fluoride	Calcium Chloride	Fly Ash
	Aluminum Hydroxide	Calcium Hydroxide (Lime)	Foam
	Aluminum Nitrate	Calcium Hypochlorite	Formaldehyde
	Aluminum Phosphate	Calcium Hypochlorite	Formic Acid
	Aluminum Salts	Calcium Nitrate	Freon 134a, 176°F
	Aluminum Sulfate	Calcium Sulfide	(86°C)
	Ammonia Gas, Cold	Carbitol	Fumaric Acid
	Ammonia Gas,Hot	Carbon Dioxide, Dry	Furfuryl Alcohol
	Ammonia, Liquid	Carbon Dioxide,Wet	Glue
	Ammonium Carbonate	Carbon Monoxide	Glycerin
	Ammonium Fluoride	Caustic Potash	Glycerol
	Ammonium Hydroxide	Cellosolve Acetate	Glycol
	Ammonium Metaphosphate	Cellosolve (Alcohol Ether)	Glycolic Acid
	Ammonium Nitrate	Cellulose Acetate	Halon Hexaldehyde
	Ammonium Persulfate to 10%	Cellulube 220 (Tri-Aryl-Phosphate)	Hydrobromic Acid,
	Ammonium sulfate	Cellulube Hydraulic Fluids	to 40%
	Ammonium Sulfide	Chloric Acid to 20%	Hydrochloric Acid,
	Ammonium Thiocyanate	Chlorine, Water	to 36%, 75°F (240°)
	Ammonium Thioynate	Chloroacetic Acid	Hydrocyamic Acid
	Amyl Acetate	Chloroacetone	Hydrogen Gas, Cold
	Amyl Alcohol	Citric Acid	Hydrogen Gas, Hot
	Aniline	Copper Fluoride	Hydrogen Sulfide
	Aniline Dyes	Copper Nitrate	Hydroxylamine Sulfate
	Aniline Hydrochloride	Copper Sulfate	Hydrochlorous Acid
	Aniline Oil	Cyclohexanone	Dilute
	Antimony Chloride	Deloniud Water	Isobutyl Alcohol
	Antimony Trichloride	Dibutyl Phlalatc	Isopropyl Acetate
	Argon Gas	Diethyl Sebacate	isopropyl Alcohol
	Barium Carbonate	Diethylene Glycol	Ketones
	Barium Chloride	Dioctyl Phrhalate	Lead Chloride
	Barium Hydroxide	Diozane	Lime and H20
	Benzaldehyde	Dowtherm SR- I	Magnesium Chloride
	Benzoic Acid	Ethanolamine	Magnesium Hydroxide
	Benzyl Alcohol	Ethyl Acetoacetate	Magnesium Sulfate
	Benzyl Benzoate	Ethyl Alcohol	Mercuric Chloride

Rigid and Flexible Coupling Features

Grooved mechanical couplings (GMC) are available in both rigid and flexible models. A rigid coupling is used in applications where a rigid joint is desired,similar to that of a traditional flanged, welded ,or threaded connection.To be considered rigid, a coupling would allow less than one degree of deflection or angular movement.

Flexible couplings are designed to accommodate axial displacement,rotation and a minimum one degree of angular movement. Flexible couplings are used in applications that call for curved or deflected layouts or when systems are exposed to outside forces beyond normal static conditions. such as seismic events or where vibration or noise attenuation are a concern.

RIGID COUPLING - GJRC50G



FLEXIBLE COUPLING - GJFC12G

FLEXIBLE COUPLING HEAVY - GJFC11G

FLEXIBLE COUPLING LARGE SIZE- GJFC12L

RIGID COUPLING LARGE SIZE - GJRC50L

Grooved couplings become less flexible as the pipe size increases.For sizes in excess of 18"(450mm) couplings are very limited in their angular movement.

Coupling Installation Instructions

Before installation, wipe away the burrs, iron rust, greasy dirt on gasket ring and pipe. After cleaning, check whether the groove meets the standard.

Apply a non-petroleum and non-toxic lubricant to gasket ring outside and inside.

Insert the gasket on one end of the pipe and make sure that the gasket does not overhang the pipe fittings ends.

Connect another grooved steel pipe to the other end of the gasket and make sure the gasket rings are at the sealing position of both pipes.

Connect the couplings on the pipe.

Tighten the nuts evenly until specified torque value are achieved.

Warning:

- It is important to tighten the nuts evenly by alternating sides to prevent gasket pinching.
- Proper torqueing of bolts is required to obtain specified performance. Over torqueing may result bolts or cast broken. Pipe joint separation may result in significant property damage and serious injury.

Required assembly Torques

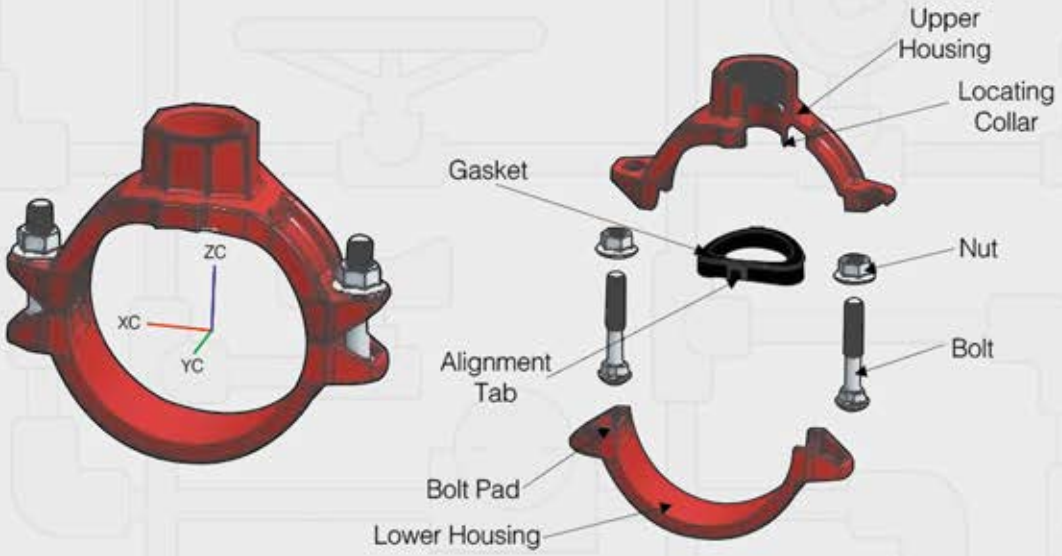
Bolt Size	Required	Torque
Inch	N.M	Lbs-Ft
3/8	40-60	30-45
1/2	110-135	80-100
5/8	135-175	100-130
3/4	175-245	130-180
7/8	245-325	180-240

WARNING

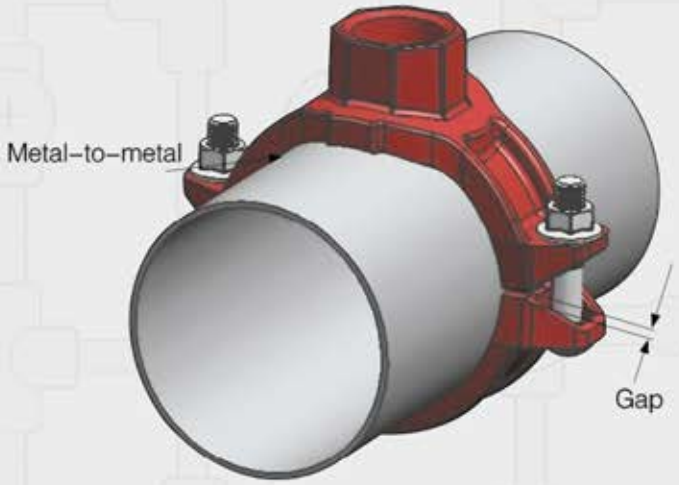
- Read and understand all instructions before attempting to install any piping products.
- Depressurize and drain the piping system before attempting to install, remove, or adjust any piping products.
- Wear safety glasses, helmet and foot protection during installation.
- Failure to follow these instructions could result in serious personal injury, improper product installation, and/or property damage.

Mechanical Tees Features

Grovjoint India mechanical tees provide a fast and easy mid-point branch outlet, eliminating the need for welding or the use of multiple fittings.



When bolts are tightened with a proper torque, the outlet housing makes metal to metal contact with the outer surface of the pipe.



It is normal to see bolt pad gaps, though they should be equal on both sides of the mechanical tee.

Mechanical Tees Installation

Before installation, wipe away the burrs, iron rust, greasy dirt on gasket ring and pipe. Make sure the correct hole saw size is being used. Holes must be drilled on the centerline not on the weld line of the pipe.

Inspect the sealing surface of the gasket and make sure there is no debris present. Lubricate the exposed sealing surface of the gasket.

Insert the gasket in the mechanical tee and make sure the tab in the gasket lines up with the house.

Insert the mechanical tee in the hole.

Install the bottom piece and make sure the locating collar engages the outer hole properly.

Tighten the nuts evenly by alternating sides until the specified torque value is achieved.

Warning:

- It is important to tighten the nuts evenly by alternating sides to prevent gasket pinching.
- Proper torqueing of bolts is required to obtain specified performance. Over torqueing may result bolts or cast broken. Pipe joint separation may result in significant property damage and serious injury.

Required assembly Torques

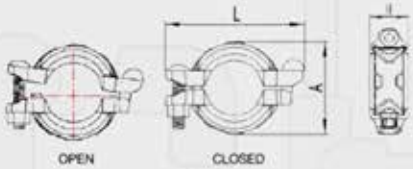
Bolt Size	Required	Torque
Inch	N.M	Lbs-Ft
3/8	40-60	30-45
1/2	110-135	80-100
5/8	135-175	100-130
3/4	175-245	130-180
7/8	245-325	180-240

WARNING

- Read and understand all instructions before attempting to install any piping products.
- Depressurize and drain the piping system before attempting to install, remove, or adjust any piping products.
- Wear safety glasses, helmet and foot protection during installation.
- Failure to follow these instructions could result in serious personal injury, improper product installation, and/or property damage.

GROVJOINT ONE-BOLT PUSH-ON COUPLING-INSTRUCTIONS

- The design concept of Push-On Coupling products is an advanced grooved connection method at present.
- The integrated design of the coupling helps in locking two housings with only one bolt.
- There is no need to disassemble the coupling before installation and it only takes two steps to join the mating components.
- The Grovjoint Push-On Coupling makes grooved pipe fittings more efficient and thus reducing the comprehensive cost of the project.



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Nominal Size mm/in	Working Pressure PSI/MPa	Bolt Size		Specified Bolt Torque		Dimensions L. mm			UL	FM
		mm	in	(NM)	Ft.-Lbs	A	L	H		
33.7 1"	450 3.1	M10x55	3/8x2-1/8	80-90	60-75	57.3	98.6	47.6	✓	✓
42.4 1-1/4"	450 3.1	M10×60	3/8 x 2-3/8	80-90	60-75	64	107.5	47.5	✓	✓
48.3 1-1/2"	450 3.1	M10×60	3/8x2-3/8	80-90	60-75	70	114	47.5	✓	✓
60.3 2"	365 2.5	M10x65	3/8x2-1/2	80-90	60-75	84	128	48	✓	✓
73 2-1/2"	365 2.5	M10x70	3/8x2-3/4	90-100	65-80	96.4	140.3	48	✓	✓
76.1	365 2.5	M10x70	3/8 x 2-3/4	90-100	65-80	99.5	143.5	48	✓	✓
88.9 3''	365 2.5	M12×80	1/2×3-1/8	110-120	80-95	113.5	168	48	✓	✓
108	365 2.5	M12×80	1/2×3-1/8	130-140	90-115	133	187.5	50	✓	✓
114.3 4''	365 2.5	M12×80	1/2×3-1/8	130-140	90-115	143	194	50	✓	✓
133	365 2.5	M12×85	1/2×3-3/8	140-150	100-120	165.5	221	50	✓	✓
139.7	365 2.5	M12×85	1/2×3-3/8	140-150	100-120	172	228	50	✓	✓
141.3 5''	365 2.5	M12×85	1/2×3-3/8	140-150	100-120	173.7	229.9	50	✓	✓
159	365 2.5	M12×90	1/2×3-1/2	140-150	100-120	190	251	51	✓	✓
165.1	365 2.5	M12×90	1/2×3-1/2	140-150	100-120	198	256	51	✓	✓
168.3 6"	365 2.5	M12×90	1/2×3-1/2	140-150	100-120	201	259	51	✓	✓

Pipe Sizes Nominal ANSI Inches (o.D.mm)	Pipe Schedule	Pressure Rating psi (bar)	
		UL	FM
1(33.7), 1-1/4(42.4),1-1/2(48.3), 2(60.3)	5	300	175
1(33.7), 1-1/4(42.4),1-1/2(48.3), 2(60.3),2-1/2(73),3(88.9),4(114.3)	WGalweld 7	300	300
1(33.7), 1-1/4(42.4),1-1/2(48.3)	10	450	450
1(33.7), 1-1/4(42.4),1-1/2(48.3)	40	450	450
2(60.3),2-1/2(73),3(88.9),4(114.3), 5(141.3), 6(168.3)	10	365	365
2(60.3),2-1/2(73),3(88.9),4(114.3), 5(141.3), 6(168.3)	10	365	365
1(33.7), 1-1/4(42.4),1-1/2(48.3)	EN10217-1	450	
2(60.3),2-1/2(73),76.1,3(88.9),108,4(114.3),133,139.7, 5(141.3), 159, 6(168.3)	EN10217-1	365	
108,4(114.3),133,139.7, 5(141.3),159, 6(168.3)	ISO 4200 D	365	365
2(60.3),2-1/2(73),76.1.3(88.9),108,4(114.3), 133,139.7, 5(141.3), 159, 6(168.3)	ISO 4200 E	365	365
1(33.7), 1-1/4(42.4),1-1/2(48.3)	ISO 4200 F	450	450
2(60.3),2-1/2(73),76.1.3(88.9),108,4(114.3), 133, 139.7, 5(141.3). 159, 6(168.3)	ISO 4200 F	365	365
1(33.7), 1-1/4(42.4),1-1/2(48.3)	ISO 4200 G	450	450
2(60.3),2-1/2(73),76.1,3(88.9),108,4(114.3),133,139.7, 5(141.3), 159, 6(168.3)	ISO 4200 G	365	365
165.1	T3091	365	365

NOTE:

See Agency website for Listing/Approvals of specialty pipe:
UL website see Online Certification Directory, www.ul.com
FM Global website
www.approvalguide.com

Housing	Gaskets	Bolt/Nut	Finish
Ductile iron conforming to ASTM A536, Grade 65-45-12	Self-lubricating EPDM-30° F-+230°F (-34°C+110°C)	ANSI: Carbon Steel oval neck track head bolts are heat-treated and conform to the physical properties of ASTM A183 Grade 2 and SAE J429 Grade 5 with a minimum tensile strength of 110.000 psi.	USA: Orange non-lead paint APAC, EMEA: Red non-lead paint Hol-dipped, Galvanized conforming to ASTM A153

Advantage:

- The following steps should be followed to install the traditional coupling: Disassembling, Lubricating, Gasket Install, Join Mating Components, Install housings, Drive & Tighten the Nuts.
- Normally it takes 180 seconds to finish the installation.
- With Push-On Coupling all you need is to join the coupling and follow two steps to finish the installation and it takes only 20 seconds to install.
- It is 9 times faster to install the Push-On Coupling than the traditional coupling.

INSTALLATION INSTRUCTIONS

Step 1.

Inspect exterior groove and ends of the pipe to verify all burrs, loose debris, dirt, chips, paint and any other foreign material such as grease are removed. Pipe end sealing surfaces must be free from sharp edges, projections, indentations, and/or other defects.

NOTE:

A silicone based lubricant is recommended. To prevent deterioration of the gasket material a petroleum lubricant should not be used on Grade "A" "EPDM"

Step 2.

Do not remove the nut from the bolt. Open the coupling by extending the coupling segments out to the extent allowed by the boit and nut.

Figure 1 Figure 2

Step 3.

As shown in the picture, apply lubricantevenly around the rubber ring exposed on the shell. The surface of the rubber ring at the groove shown in Figure 2 should also be evenly coated with lubricant.

Step 4.

Push the gasket/coupling onto one end of the pipe until the positioning-plate of the gasket is in contact with the end of the pipe (See Figure 1 red highlights is positioning-plat).

The pipe end should not cross through the positioning-plate of gasket. (See Figure 2).

Step 5.

Slide the other pipe end into the gasket/coupling ensuring that it makes contact with the positioning-plate of the gasket.

Both pipes should be aligned vertically and horizontally, Verify that the housing is over the gasket and that the housing keys are aligned with the pipe grooves.

Step 6.

Tighten nut to the recommended bolt torque, see sheet 1. Visually inspect the coupling to ensure that the housing keys are engaged into the pipe grooves.

NOTE:

Bolt-torque information is supplied as a guideline in sheet 1 and may be used when setting the torque on power impact wrenches. Refer to the manufacturer's instructions for settings. Bolt lengths require the use of deep or extra-deep-well sockets.

Caution

Removal of the nut from the bolt may result in the coupling segments separating at the hinges and the coupling disengaging from the pipe.
Use caution to avoid equipment damage and/or personal injury.
Do not leave coupling unattended on a single pipe end as it may disengage from the pipe. Failure to do so may result in equipment damage and/or personal injury.

GROVJOINT QUICK-LOCK RIGID COUPLING - GJQRC19- INSTRUCTIONS

Figure 1

Figure 2

Step 1.

the pipe to verify all burrs, loose debris,dirt, chips, paint and any other foreign material such as grease are removed. Pipe end sealing surfaces must be free from sharp edges, projections, indentations, and/or other defects.

Step 2.

Inspect exterior groove and ends. Do not remove the nut from the bolt. Open the coupling by extending the figure coupling segments out to the extent allowed by the bolt and nut.

Step 3.

Push the gasket/coupling onto one end of the pipe until the center plate of the gasket is in contact with the end of the pipe (See Figure 1).

The gasket center plate should not ride up onto the gasket sealing surface (See Figure 2).

Step 4.

Slide the other pipe end into the gasket/coupling ensuring that it makes contact with the center plate of the gasket.Both pipes should be aligned vertically and horizontally.

Verify that the housing is over the gasket and that the housing keys are aligned with the pipe grooves.

Step 5.

Tighten the nuts evenly by altemating sides until the specified torque value are achieved.

For angle pad coupling, tighten the nuts evenly until an Metal to metal contact is achieved.Equal and positive or neutral offsets shall be present at each bolt pad location.

For flexible coupling, two housings should be Metal to metal connected.Gaskets can't be seen visually.

Tighten nut to the recommended bolt torque, see sheet 1.

Visually inspect the coupling to ensure that the housing keys are engaged into the pipe grooves.

NOTE:

Bolt-torque information is supplied as a guideline in sheet 1 and may be used when setting the torque on power impact wrenches.

Refer to the manufacturer's instructions for settings.

Caution

Bolt lengths require the use of deep or extra-deep-well sockets.

Removal of the nut from the bolt may result in the coupling segments separating at the hinges and the coupling disengaging from the pipe.

Use caution to avoid equipment damage and/or personal injury.

Do not leave coupling unattended on a single pipe end as it may disengage from the pipe. Failure to do so may result in equipment damage and/or personal injury.

Apply a thin coat of a compatible lubricant only to the gasket sealing lips, if any of the following conditions exist. Reference the "Lubricant Compatibility for Gaskets" table below.

- If the gasket is being installed into a dry pipe system
- If the installation or continuous operating temperature is below 0° F / 18" C
- If the gasket has been exposed to fluids prior to installation
- If the system will be subjected to air tests prior to being filled with water
- If the gasket was involved in a previous installation

Lubricant Compatibility for Gaskets

The following recommendations are for the gasket materials listed. Commercial lubricants may contain multiple ingredients. Always refer to the lubricant manufacturer's recommendations for material compatibility.

	Silicone Grease	Soap-Based Solutions	Glycerin	Silicone Spray	Vegetable Oil	Hydrocarbon-Based Oils	Petroleum-Based Greases
Compatible with EPDM Gaskets?	Yes	Yes	Yes	No	No	No	No

Required Assembly Torques

Product Size Inch	Required Torque	
	N.m	Ft-Lbs
1"	35-50	26-37
1-1/4"	35-50	26-37
1-1/2"	35-50	26-37
2"	35-50	26-37
2-1/2" (76.1)	35-50	26-37
3"	35-50	26-37
4"	75-110	55-81
5" (139.7)	80-110	59-81
6" (165.1)	80-110	59-81
8" (216.3)	120-165	89-122
10" (267.4)	300-390	221-288
12" (318.5)	300-390	221-288
Bolt Size	**Required Torque**	
3/8	35-50	26-37
1/2	75-110	55-81
5/8	120-165	89-122
7/8	300-390	221-288

NOTE:

When the pipe clamp bolt pad is metal to metal or the gap between the two pieces of the pipe be iron to iron connected, no greater torque is required.

WARNING

1、Read and understand all instructions before attempting to install any piping products.

2、Depressurize and drain the piping system before attempting to install, remove, or adjust any piping products.

3、Wear safety glasses, hardhat, and foot protection during installation.

4、Failure to follow these instructions could result in serious personal injury. improper product installation and/or property damage.

Step 1.

the pipe to verify all burrs, loose debris,dirt, chips, paint and any other foreign material such as grease are removed. Pipe end sealing surfaces must be free from sharp edges, projections, indentations, and/or other defects.

Step 2.

Inspect exterior groove and ends. Do not remove the nut from the bolt. Open the coupling by extending the figure coupling segments out to the extent allowed by the bolt and nut.

Figure 1

Figure 2

Step 3.

Push the gasket/coupling onto one end of the pipe until the center plate of the gasket is in contact with the end of the pipe (See Figure 1).

The gasket center plate should not ride up onto the gasket sealing surface (See Figure 2).

Step 4.

Slide the other pipe end into the gasket/coupling ensuring that it makes contact with the center plate of the gasket.Both pipes should be aligned vertically and horizontally.

Verify that the housing is over the gasket and that the housing keys are aligned with the pipe grooves.

Step 5.

Tighten the nuts evenly by altemating sides until the specified torque value are achieved.

For angle pad coupling, tighten the nuts evenly until an Metal to metal contact is achieved.Equal and positive or neutral offsets shall be present at each bolt pad location.

For flexible coupling, two housings should be Metal to metal connected.Gaskets can't be seen visually.

Tighten nut to the recommended bolt torque, see sheet 1.

Visually inspect the coupling to ensure that the housing keys are engaged into the pipe grooves.

NOTE:

Bolt-torque information is supplied as a guideline in sheet 1 and may be used when setting the torque on power impact wrenches.

Refer to the manufacturer's instructions for settings.

Caution

Bolt lengths require the use of deep or extra-deep-well sockets.

Removal of the nut from the bolt may result in the coupling segments separating at the hinges and the coupling disengaging from the pipe.

Use caution to avoid equipment damage and/or personal injury.

Do not leave coupling unattended on a single pipe end as it may disengage from the pipe. Failure to do so may result in equipment damage and/or personal injury.

Apply a thin coat of a compatible lubricant only to the gasket sealing lips, if any of the following conditions exist. Reference the "Lubricant Compatibility for Gaskets" table below.

- If the gasket is being installed into a dry pipe system
- If the installation or continuous operating temperature is below 0° F / 18" C
- If the gasket has been exposed to fluids prior to installation
- If the system will be subjected to air tests prior to being filled with water
- If the gasket was involved in a previous installation

Lubricant Compatibility for Gaskets

The following recommendations are for the gasket materials listed. Commercial lubricants may contain multiple ingredients. Always refer to the lubricant manufacturer's recommendations for material compatibility.

	Silicone Grease	Soap-Based Solutions	Glycerin	Silicone Spray	Vegetable Oil	Hydrocarbon-Based Oils	Petroleum-Based Greases
Compatible with EPDM Gaskets?	Yes	Yes	Yes	No	No	No	No

Required Assembly Torques

Product Size Inch	Required Torque	
	N.m	Ft-Lbs
1"	35-50	26-37
1-1/4"	35-50	26-37
1-1/2"	35-50	26-37
2"	35-50	26-37
2-1/2" (76.1)	35-50	26-37
3"	35-50	26-37
4"	75-110	55-81
5" (139.7)	80-110	59-81
6" (165.1)	80-110	59-81
8" (216.3)	120-165	89-122
10" (267.4)	300-390	221-288
12" (318.5)	300-390	221-288
Bolt Size	**Required Torque**	
3/8	35-50	26-37
1/2	75-110	55-81
5/8	120-165	89-122
7/8	300-390	221-288

NOTE:

When the pipe clamp bolt pad is metal to metal or the gap between the two pieces of the pipe be iron to iron connected, no greater torque is required.

WARNING

1、Read and understand all instructions before attempting to install any piping products.

2、Depressurize and drain the piping system before attempting to install, remove, or adjust any piping products.

3、Wear safety glasses, hardhat, and foot protection during installation.

4、Failure to follow these instructions could result in serious personal injury. improper product installation and/or property damage.

GROVJOINT ANGLE PAD COUPLING - GJRC10A- INSTRUCTIONS

Figure 1

Figure 2

Step 1.

the pipe to verify all burrs, loose debris,dirt, chips, paint and any other foreign material such as grease are removed. Pipe end sealing surfaces must be free from sharp edges, projections, indentations, and/or other defects.

Step 2.

Inspect exterior groove and ends. Do not remove the nut from the bolt. Open the coupling by extending the figure coupling segments out to the extent allowed by the bolt and nut.

Step 3.

Push the gasket/coupling onto one end of the pipe until the center plate of the gasket is in contact with the end of the pipe (See Figure 1).

The gasket center plate should not ride up onto the gasket sealing surface (See Figure 2).

Step 4.

Slide the other pipe end into the gasket/coupling ensuring that it makes contact with the center plate of the gasket.Both pipes should be aligned vertically and horizontally.

Verify that the housing is over the gasket and that the housing keys are aligned with the pipe grooves.

Step 5.

Tighten the nuts evenly by altemating sides until the specified torque value are achieved.

For angle pad coupling, tighten the nuts evenly until an Metal to metal contact is achieved.Equal and positive or neutral offsets shall be present at each bolt pad location.

For flexible coupling, two housings should be Metal to metal connected.Gaskets can't be seen visually.

Tighten nut to the recommended bolt torque, see sheet 1.

Visually inspect the coupling to ensure that the housing keys are engaged into the pipe grooves.

NOTE:

Bolt-torque information is supplied as a guideline in sheet 1 and may be used when setting the torque on power impact wrenches.

Refer to the manufacturer's instructions for settings.

Caution

Bolt lengths require the use of deep or extra-deep-well sockets.

Removal of the nut from the bolt may result in the coupling segments separating at the hinges and the coupling disengaging from the pipe.

Use caution to avoid equipment damage and/or personal injury.

Do not leave coupling unattended on a single pipe end as it may disengage from the pipe. Failure to do so may result in equipment damage and/or personal injury.

Apply a thin coat of a compatible lubricant only to the gasket sealing lips, if any of the following conditions exist. Reference the "Lubricant Compatibility for Gaskets" table below.

- If the gasket is being installed into a dry pipe system
- If the installation or continuous operating temperature is below 0° F / 18" C
- If the gasket has been exposed to fluids prior to installation
- If the system will be subjected to air tests prior to being filled with water
- If the gasket was involved in a previous installation

Lubricant Compatibility for Gaskets

The following recommendations are for the gasket materials listed. Commercial lubricants may contain multiple ingredients. Always refer to the lubricant manufacturer's recommendations for material compatibility.

	Silicone Grease	Soap-Based Solutions	Glycerin	Silicone Spray	Vegetable Oil	Hydrocarbon-Based Oils	Petroleum-Based Greases
Compatible with EPDM Gaskets?	Yes	Yes	Yes	No	No	No	No

Required Assembly Torques

Product Size Inch	Required Torque	
	N.m	Ft-Lbs
1"	35-50	26-37
1-1/4"	35-50	26-37
1-1/2"	35-50	26-37
2"	35-50	26-37
2-1/2" (76.1)	35-50	26-37
3"	35-50	26-37
4"	75-110	55-81
5" (139.7)	80-110	59-81
6" (165.1)	80-110	59-81
8" (216.3)	120-165	89-122
10" (267.4)	300-390	221-288
12" (318.5)	300-390	221-288
Bolt Size	**Required Torque**	
3/8	35-50	26-37
1/2	75-110	55-81
5/8	120-165	89-122
7/8	300-390	221-288

NOTE:

When the pipe clamp bolt pad is metal to metal or the gap between the two pieces of the pipe be iron to iron connected, no greater torque is required.

WARNING

1、Read and understand all instructions before attempting to install any piping products.

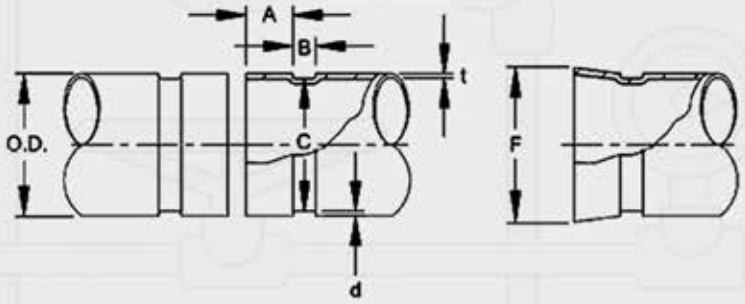
2、Depressurize and drain the piping system before attempting to install, remove, or adjust any piping products.

3、Wear safety glasses, hardhat, and foot protection during installation.

4、Failure to follow these instructions could result in serious personal injury. improper product installation and/or property damage.

Roll Grooving Dimensions

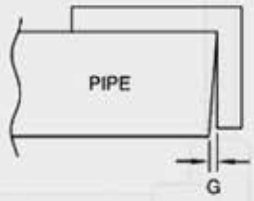
Basic roll groove dimensions conform to ANSI/AWWA C606-06 Table 5 with slightly adjusted tolerances to incorporate international standards including CSA b242, ISO/FDIS 6182-12, Vds 2100-6en and JPF MP-006



Nominal Size	Basic	Pipe O.D. Tolerance		A ±0.030 ±0.76	B ±0.030 ±0.76	C +0.000 +0.00	t Min. Wall	d Groove Depth (ref.)	F Max. Allowed Flare Dia.
In mm	In mm	In mm	In mm	In mm	In mm	In mm	In mm	In mm	In mm
¾ 20	1.050 26.7	0.26	-0.010 -0.25	0.625 15.88	0.281 7.14	0.938-0.015 23.83-0.38	0.065 1.65	0.056 1.42	1.15 29.21
1 25	1.315 33.4	0.343	-0.013 -0.33	0.625 15.88	0.281 7.14	1.190-0.015 30.23-0.38	0.065 1.65	0.063 1.60	1.43 36.30
1¼ 32	1.660 42.2	0.426	-0.016 -0.41	0.625 15.88	0.281 7.14	1.535-0.015 38.99-0.38	0.065 1.65	0.063 1.60	1.77 44.96
1½ 40	1.900 48.3	0.499	-0.019 -0.48	0.625 15.88	0.281 7.14	1.775-0.015 45.09-0.38	0.065 1.65	0.063 1.60	2.01 51.05
2 50	2.375 60.3	0.634	-0.024 -0.61	0.625 15.88	0.344 8.74	2.250-0.015 57.15-0.38	0.065 1.65	0.063 1.60	2.48 62.99
2½ 65	2.875 73.0	0.769	-0.029 -0.74	0.625 15.88	0.344 8.74	2.720-0.018 69.09-0.46	0.083 2.11	0.078 1.98	0.98 75.69
76.1	3.000 76.1	0.79	-0.030 -0.76	0.625 15.88	0.344 8.74	2.844-0.018 72.24-0.46	0.090 2.30	0.075 1.93	3.10 78.74
3 80	3.500 88.9	0.925	-0.031 -0.79	0.625 15.88	0.344 8.74	3.344-0.018 84.94-0.46	0.083 2.11	0.078 1.98	3.60 91.44
101.6mm	4.000 101.6	1.06	-0.031 -0.79	0.625 15.88	0.344 8.74	3.834-0.020 97.38-0.51	0.083 2.11	0.083 2.11	4.10 104.10
108.0mm	4.250 108.0	1.112	-0.031 -0.79	0.625 15.88	0.344 8.74	4.084-0.020 103.73-0.51	0.083 2.11	0.083 2.11	4.35 110.49
4 100	4.500 114.3	1.06	-0.031 -0.79	0.625 15.88	0.344 8.74	4.334-0.020 110.08-0.51	0.083 2.11	0.083 2.11	4.60 116.84
133.0mm	5.250 133.0	1.371	-0.031 -0.79	0.625 15.88	0.344 8.74	5.084-0.020 129.13-0.51	0.109 2.77	0.083 2.11	5.35 135.89
139.7mm	5.500 139.7	1.45	-0.031 -0.79	0.625 15.88	0.344 8.74	5.333-0.020 135.46-0.51	0.109 2.77	0.083 2.11	5.60 142.24
5 125	5.563 141.3	1.476	-0.031 -0.79	0.625 15.88	0.344 8.74	5.395-0.022 137.03-0.56	0.109 2.77	0.083 2.11	5.66 143.76
159.0mm	6.250 159.0	1.663	-0.031 -0.79	0.625 15.88	0.344 8.74	6.084-0.030 154.53-0.76	0.109 2.77	0.083 2.11	6.35 161.29
165.1mm	6.500 165.1	1.663	-0.031 -0.79	0.625 15.88	0.344 8.74	6.334-0.022 160.88-0.56	0.109 2.77	0.085 2.16	6.60 167.64
6 150	6.625 168.3	1.663	-0.031 -0.79	0.625 15.88	0.344 8.74	6.455-0.022 163.96-0.56	0.109 2.77	0.085 2.16	6.73 170.94
216.3mm	8.516 216.3	1.663	-0.031 -0.79	0.750 19.05	0.469 11.91	8.331-0.025 211.61-0.64	0.109 2.77	0.092 2.34	8.69 220.73
8 200	8.625 219.1	1.663	-0.031 -0.79	0.750 19.05	0.469 11.91	8.441-0.025 214.40-0.64	0.109 2.77	0.092 2.34	8.80 223.52

Nominal Size	Basic	Pipe O.D. Tolerance		A ±0.030 ±0.76	B ±0.030 ±0.76	C +0.000 +0.00	t Min. Wall	d Groove Depth (ref.)	F Max. Allowed Flare Dia.
In mm	In mm	In mm	In mm	In mm	In mm	In mm	In mm	In mm	In mm
10 *250*	10.750 *273.0*	+0.063 *+1.60*	-0.031 *-0.79*	0.750 *19.05*	0.469 *11.91*	10.562-0.027 *268.27-0.69*	0.134 *3.40*	0.94 *2.39*	10.92 *277.37*
12 *300*	12.750 *323.9*	1.663	-0.031 *-0.79*	0.750 *19.05*	0.469 *11.91*	12.531-0.030 *318.29-0.76*	0.156 *3.96*	0.109 *2.77*	12.92 *328.17*
14 *350*	14.000 *355.6*	1.663	-0.031 *-0.79*	0.938 *23.83*	0.469 *11.91*	13.781-0.030 *350.04-0.76*	0.156 *3.96*	0.109 *2.77*	14.10 *358.14*
16 *400*	16.000 *406.4*	1.663	-0.031 *-0.79*	0.938 *23.83*	0.469 *11.91*	15.781-0.030 *400.84-0.76*	0.165 *4.19*	0.109 *2.77*	16.10 *408.94*
18 *450*	18.000 *457.2*	1.663	-0.031 *-0.79*	1.000 *25.40*	0.469 *11.91*	17.781-0.030 *451.64-0.76*	0.165 *4.19*	0.109 *2.77*	18.16 *461.26*
20 *500*	20.000 *508.0*	1.663	-0.031 *-0.79*	1.000 *25.40*	0.469 *11.91*	19.781-0.030 *502.44-0.76*	0.188 *4.78*	0.109 *2.77*	20.16 *512.06*
22 *550*	22.000 *558.8*	1.663	-0.031 *-0.79*	1.000 *25.40*	0.469 *11.91*	21.656-0.030 *550.06-0.76*	0.188 *4.78*	0.172 *4.37*	22.20 *563.88*
24 *600*	24.000 *609.6*	1.663	-0.031 *-0.79*	1.000 *25.40*	0.500 *12.70*	23.656-0.030 *600.86-0.76*	0.218 *5.54*	0.172 *4.37*	24.20 *614.68*

1. Pipe ends must be square cut. See above table for maximum allowable tolerances from square cut ends

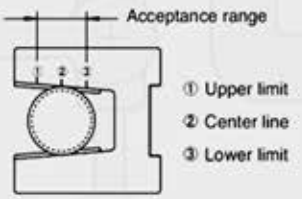


Pipe	G (max)
~3 1/2"	0.030" (0.8mm)
4 ~ 6"	0.045" (1.2mm)
8" ~	0.060" (1.6mm)

2. The gasket seating surface 'A' shall be free from deep scores. marks, or ridges that 'vould prevent a positive seal,

3, The '0' dimensions are average values. The groove must be of uniform depth around the entire circumference.

4. The 't1 is the minimum allowable wall thickness that may be roll-grooved.groove gage or rule to check the groove diameter.



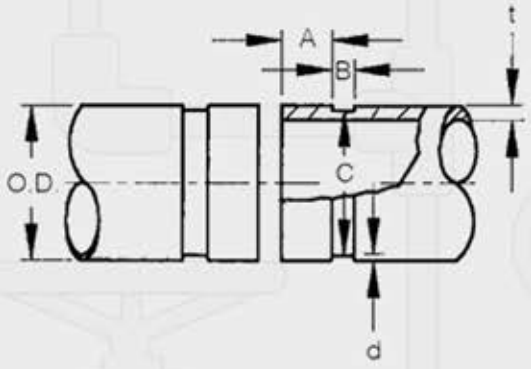
Groove Gage

Groove Rule

5. The 'd' is for reference use only. The groove depth shall be determined by the groove diameter 'C'.

6. Flare Diameter: The pipe end that may flare when the groove is rolled shall be within this limit when measured at the extreme end of the pipe.

Cut Grooving Dimensions



Nominal Size	Basic	Pipe O.D. Tolerance		A ±0.030 ±0.76	B ±0.030 ±0.76	C +0.000 +0.00	t Min. Wall	d Groove Depth (ref.)
In mm	In mm	In mm	In mm	In mm	In mm	In mm	In mm	In Mm
¾ 20	1.050 26.7	0.26	-0.010 -0.25	0.625 15.88	0.313 7.95	0.938-0.015 23.83-0.38	0.113 2.87	0.056 1.42
1 25	1.315 33.4	0.738	-0.015 -0.38	0.625 15.88	0.313 7.95	1.109-0.015 30.23-0.38	0.133 3.38	0.063 1.60
1 ¼ 32	1.660 42.2	0.769	-0.016 -0.41	0.625 15.88	0.313 7.95	1.535-0.015 38.99-0.38	0.140 3.56	0.063 1.60
1 ½ 40	1.900 48.3	0.499	-0.019 -0.48	0.625 15.88	0.313 7.95	1.775-0.015 45.09-0.38	0.145 3.68	0.063 1.60
2 50	2.375 60.3	0.634	-0.024 -0.61	0.625 15.88	0.131 7.95	2.250-0.015 57.15-0.38	0.154 3.91	0.063 1.60
2 ½ 65	2.875 73.0	0.769	-0.029 -0.74	0.625 15.88	0.313 7.95	2.720-0.018 69.09-0.46	0.188 4.78	0.078 1.98
76.1 mm	3.000 76.1	0.79	-0.030 -0.76	0.625 15.88	0.313 7.95	2.845-0.018 72.26-0.46	0.188 4.78	0.076 1.93
3 80	3.500 88.9	0.925	-0.031 -0.79	0.625 15.88	0.313 7.95	3.344-0.018 84.94-0.46	0.188 4.78	0.078 1.98
101.6 mm	4.000 101.6	1.06	-0.031 -0.79	0.625 15.88	0.313 7.95	3.834-0.020 97.38-0.51	0.188 4.78	0.078 1.98
108.0 mm	4.250 108.0	1.112	-0.031 -0.79	0.625 15.88	0.375 9.53	4.084-0.020 103.73-0.51	0.203 5.16	0.083 2.11
4 100	4.500 114.3	1.185	-0.031 -0.79	0.625 15.88	0.375 9.53	4.334-0.020 110.08-0.51	0.203 5.16	0.083 2.11
133.0 mm	5.250 133.0	1.372	-0.031 -0.79	0.625 15.88	0.375 9.53	5.084-0.020 129.13-0.51	0.203 5.16	0.083 2.11
139.7 mm	5.500 139.7	1.476	-0.031 -0.79	0.625 15.88	0.375 9.53	5.334-0.022 135.48-0.56	0.203 5.16	0.083 2.11
5 125	5.563 141.3	1.476	-0.031 -0.79	0.625 15.88	0.375 9.53	5.395-0.022 137.03-0.56	0.203 5.16	0.084 2.13
159.0 mm	6.250 159.0	1.663	-0.031 -0.79	0.625 15.88	0.375 9.53	6.084-0.022 154.53-0.56	0.219 5.56	0.083 2.11
165.1 mm	6.500 165.1	1.663	-0.031 -0.79	0.625 15.88	0.375 9.53	6.330-0.022 160.78-0.56	0.219 5.56	0.085 2.16
6 150	6.625 168.3	1.663	-0.031 -0.79	0.625 15.88	0.375 9.53	6.455-0.022 163.96-0.56	0.219 5.56	0.085 2.16
8 200	8.625 219.1	1.663	-0.031 -0.79	0.750 19.05	0.438 11.113	8.441-0.025 214.40-0.64	0.238 6.05	0.092 2.34
10 250	10.750 273.0	1.663	-0.031 -0.79	0.750 19.05	0.500 12.70	10.562-0.027 268.27-0.69	0.250 6.35	0.094 2.39
12 300	12.750 323.9	1.663	-0.031 -0.79	0.750 19.05	0.500 12.70	12.531-0.030 318.29-0.76	0.279 7.09	0.109 2.77

Nominal Size	Basic	Pipe O.D. Tolerance		A ±0.030 ±0.76	B ±0.030 ±0.76	C +0.000 +0.00	t Min. Wall	d Groove Depth (ref.)
In mm	In mm	In mm	In mm	In mm	In mm	In mm	In mm	In Mm
200 JIS	8.516 216.3	1.663	-0.031 -0.79	0.750 19.05	0.438 11.13	8.331-0.022 211.61-0.56	0.238 6.05	0.092 2.34
250 JIS	10.528 267.4	1.663	-0.031 -0.79	0.750 19.05	0.500 12.70	10.339-0.027 262.60-0.69	0.250 6.35	0.094 2.39
300 JIS	12.539 318.5	1.663	-0.031 -0.79	0.750 19.05	0.500 12.70	12.319-0.030 312.90-0.76	0.279 7.09	0.109 2.77
14 350	14.000 355.6	1.663	-0.031 -0.79	0.938 23.83	0.500 12.70	13.781-0.030 350.04-0.76	0.281 7.14	0.109 2.77
16 400	16.000 406.4	1.663	-0.031 -0.79	0.938 23.83	0.500 12.70	15.781-0.030 400.84-0.76	0.312 7.92	0.109 2.77
18 450	18.000 457.2	1.663	-0.031 -0.79	1.000 25.40	0.500 12.70	17.781-0.030 451.64-0.76	0.312 7.92	0.109 2.77
20 500	20.000 508.0	1.663	-0.031 -0.79	1.000 25.40	0.500 12.70	19.781-0.030 502.44-0.79	0.132 7.92	0.109 2.77
22 550	22.000 558.8	1.663	-0.031 -0.79	1.000 25.40	0.563 14.30	21.656-0.030 550.06-0.76	0.375 9.53	0.172 4.37
24 600	24.000 609.6	1.663	-0.031 -0.79	1.000 25.40	0.562 14.27	23.656-0.030 600.86-0.76	0.375 9.53	0.172 4.37

Pipe O.D. (Column 2):

Maximum allowable tolerances from square of ends is 0.03" for sizes up to 3-1/2" ; 0.045" for 4" tilt-Ai 6" , and 0.060" for sizes 8" and above.

Gasket Seating Surface (Column 3):

The gasket seating surface shall be free from deep scores, marks, or ridges that would prevent a positive seal.

Groove Width (Column 4):

Groove width is to be measured between vertical flanks of the groove side walls.

Groove Diameter (Column 5):

The "C" diameters are average values. The groove must be of uniform depth around the entire pipe circumference.

Minimum Wall Thickness (Column 6):

The "t" is the minimum allowable wall thickness that may be cut-grooved.

Groove Depth (Column 7):

The "d" is for reference use only. The groove dimension shall be determined by the groove diameter "C"

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