



Ductile Iron Pipe Fittings

Professional Quality Trustworthy



A large industrial foundry scene. In the center, a large ladle is being lifted by a crane, pouring bright orange molten metal into a mold. Several workers in protective gear are visible around the area, observing the process. The background shows the complex structure of the foundry with various pipes and machinery.

NEW

Ductile Iron Pipe Fittings

More than 25 years of foundry Experience



Ductile Iron Pipe Fittings



Company Profile

"Quality is not an act, it is a habit"

Dear Customers of NEW Ductile Iron Pipe Fittings

We live in a world that changes all the time, but no matter how it changes, one thing is eternal: Our pursuit of product quality and conservation of the win-win co-operation relationship with our partners. We believe in - "Manufacturing relationships and distributing quality". Significant changes have taken place in the economic scenario during the past decade. Increased global competition has brought in both challenges and opportunities. The challenge is to not only retain the market share but also to increase it steadily through quality consciousness and stable pricing.

"Manufacturing is more than just putting parts together. It's coming up with ideas, testing principals and perfecting the engineering as well as final assembly."

"GREEN MANUFACTURING CO. LIMITED" is a leading unit in organized sector engaged in manufacturing of Ductile Iron Pipe Fittings, Malleable Iron Pipe Fittings and Groove Fittings. Our products have been widely accepted in the market due to superior quality and accuracy. Due to our commitment towards quality consciousness, development systems and implementation methods, our company has been awarded ISO 9001-2008 certification from "UL MANAGEMENT SYSTEMS SOLUTIONS". The latest plant and machinery installed by the company is managed by a competent team of professionals in engineering and technology.

"Customer Loyalty is Priceless"

Customer satisfaction has always been the company's top priority, and we constantly stick to the principal to provide customer with a value added solution rather than simply delivering products.

Quality is never an accident; it is always the result of high intention, sincere effort, intelligent direction and skillful execution; it represents the wise choice of many alternatives. We insist on the management philosophy, 'to operate with integrity, first-rate service, harmony, environment friendly, serving the community'; inherit management principle, 'people oriented management-innovation, continuous improvement', and pursue enterprise spirit, 'Innovation, sincerity and high efficiency'. Depending on good business reputation, reliable product quality and attentive services, we win the believing, supporting and favorable report from a wide range of customers.

NEW

Ductile Iron Pipe Fittings



Certificate of Compliance
This certificate is issued for the following:

Non-Gasketed Pipe Fittings for Use with Aboveground Sprinkler Systems

Model 90 90d Elbow	Model 90R 90d Reducing Elbow	Model 130 Equal Tee	Model 130R Reducing Tee
Model 180 Cross	Model 180R Reducing Cross	Model 220 Coupling	Model 240 Concentric Reducer
Model 241 Hex. Bushing	Model 291 Plug	Model 300 End Cap	Model 342 Union

Prepared for:
Green Manufacturing Co., Ltd.
C-20 Canal Road, Industrial Area,
Jalandhar City - 144004, Punjab
India

Manufactured at:
Green Manufacturing Co., Ltd.
C-20 Canal Road, Industrial Area,
Jalandhar City - 144004, Punjab
India

FM Approvals Class: 1920 - "Pipe Couplings and Fittings for Aboveground Fire Protection Systems"

Approval Identification: 3061042 Approval Granted: July 20, 2017

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

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

FM Approvals
Member of the FM Global Group

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

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Model 90 90d Elbow	Model 90R 90d Reducing Elbow	Model 130 Equal Tee	Model 130R Reducing Tee
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Model 241 Hex. Bushing	Model 291 Plug	Model 300 End Cap	Model 342 Union

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

CERTIFICATE OF COMPLIANCE

Certificate Number: 20170220-EX27318
Report Reference: EX27318-20161026
Issue Date: 2017-February-20

Issued to: GREEN MANUFACTURING CO LIMITED
C-20 canal road, industry Area
Jalandhar PUNJAB 12568 INDIA

This is to certify that representative samples of

FITTINGS, CAST IRON, DUCTILE IRON, MALLEABLE IRON AND BRONZE
Ductile iron fittings fabricated with dimensional specifications in accordance with ASME B16.3 (Class 150), with threads in accordance with ISO 7-1 -90, 90R, 130, 130R, 240, 180, 180R, 220, 300,
Ductile iron fittings fabricated with dimensional specifications in accordance with ASME B16.14 (Class 150), with threads in accordance with ISO 7-1 - 291, 241
Ductile iron unions fabricated with dimensional specifications in accordance with ASME B16.39 (Class 150), with threads in accordance with ISO 7-1 - 342

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

Standard(s) for Safety: ASME B16.3 - Malleable Iron Threaded Fittings
ASME B16.14 - Ferrous Pipe Plugs, Bushings, and Locknuts with Pipe Threads
ASME B16.39 - Malleable Iron Threaded Pipe Unions

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.
Look for the UL Certification Mark on the product.

Barth
UL LLC
Any information and documentation involving UL Mark centers are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at www.ul.com/customer-service

UL

Page 1 of 1

CERTIFICATE OF COMPLIANCE

Certificate Number: 20161028-EX27318
Report Reference: EX27318-20161026
Issue Date: 2016-OCTOBER-28

Issued to: GREEN MANUFACTURING CO LIMITED
C-20 canal road, industry Area
Jalandhar PUNJAB 12568 INDIA

This is to certify that representative samples of

FITTINGS, CAST IRON, DUCTILE IRON, MALLEABLE IRON AND BRONZE
Models 90, 90R, 130, 130R, 240

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

Standard(s) for Safety: ANSI/ASME B16.3, Malleable Iron Threaded Fittings
UL 213, Rubber Gasketed Fittings for Fire-Protection Service

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.
Look for the UL Certification Mark on the product.

Barth
UL LLC
Any information and documentation involving UL Mark centers are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at www.ul.com/customer-service

UL

Certificate
This is to certify that
GREEN MANUFACTURING CO. LIMITED
C-20, CANAL ROAD, INDL AREA, C-48, FOCAL POINT EXTN. (2ND PREMISES),
JALANDHAR, PUNJAB - 144004, INDIA

Has been found in compliance with requirement of
Quality Management System
ISO 9001:2015
For The Following Scope:
"MANUFACTURING AND TRADING OF DUCTILE IRON GROOVED FITTINGS
UPTO 300MM, DUCTILE IRON THREADED FITTINGS UPTO 50MM,
G.I FITTINGS (MALLEABLE IRON) UPTO 150MM."

Certificate No : QMS/230620/4834
Original Certificate Date : 01st - March -2025
Issue Date : 01st - March -2025
Expiry Date : 28th - February -2028

To check this certificate status visit
<http://eurobkts.org.uk/check-certified-org.php>

Anand Kumar
Authorised Signatory

Office: Gebirgsjägerstrasse 29, Kirchdorf In Tirol, 6382, Austria
International Standards Certification (ISC) accredited by "Euro UK" This Certification remains the property of ISC to whom it must be returned on request.

ISO 9001

Certificate
This is to certify that
GREEN MANUFACTURING CO. LIMITED
C-20, CANAL ROAD, INDL AREA, C-48, FOCAL POINT EXTN. (2ND PREMISES),
JALANDHAR, PUNJAB - 144004, INDIA

Has been found in compliance with requirement of
Environmental Management System
ISO 14001:2015
For The Following Scope:
"MANUFACTURING AND TRADING OF DUCTILE IRON GROOVED FITTINGS
UPTO 300MM, DUCTILE IRON THREADED FITTINGS UPTO 50MM,
G.I FITTINGS (MALLEABLE IRON) UPTO 150MM."

Certificate No : EMS/230620/4835
Original Certificate Date : 01st - March -2025
Issue Date : 01st - March -2025
Expiry Date : 28th - February -2028

To check this certificate status visit
<http://eurobkts.org.uk/check-certified-org.php>

Anand Kumar
Authorised Signatory

Office: Gebirgsjägerstrasse 29, Kirchdorf In Tirol, 6382, Austria
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ISO 14001

NEW

Ductile Iron Pipe Fittings



Reliability in Real Sense

Dimensions : ASME B16.3, B16.14
Thread : Threaded as per BSPT/NPT
Size Available : 1/2" - 2"



90
DI Elbow 90°



90R
DI Reducing Elbow 90°



90R
DI Reducing Elbow 90°



45
Elbow 45°



130
DI Tee



130R
DI Reducing Tee



180
DI Cross



180R
DI Reducing Cross



220
DI Coupling



240
DI Reducing Coupling



241
DI Outside Hex Bushing



342
DI Union



291
DI Plug



300
DI Cap



92
Street Elbow, 90°

NEW

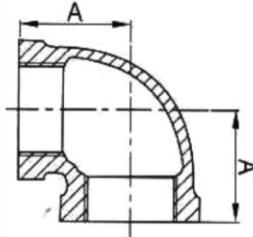
Ductile Iron Pipe Fittings



90



Di Elbow 90°

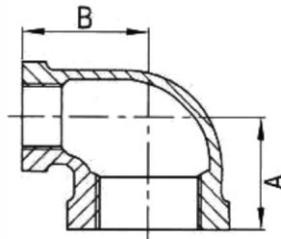


Size	Inch	½	¾	1	1¼	1½	2
	mm	15	20	25	32	40	50
Dim.(mm)	A	28.5	33.3	38.1	44.5	49.3	57.2
Size	Inch	2½	3				
	mm	65	80				
Dim.(mm)	A	68.6	78.2				

90R



DI Reducing Elbow 90°

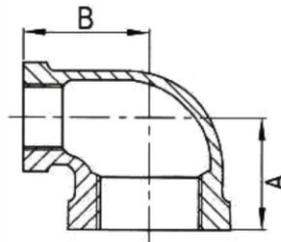


Size	Inch	¾x½	1x½	1x¾	1¼x½	1¼x¾
	mm	20x15	25x15	25x20	32x15	32x20
Dim.(mm)	A	30.5	32	34.8	34	36.8
	B	31	35.5	36.8	38.9	41.2
Size	Inch	1½x1	1½x½	1½x¾	1½x1	1½x1¼
	mm	32x25	40x15	40x20	40x25	40x32
Dim.(mm)	A	40.1	35.8	38.6	41.9	46.2
	B	42.4	42.2	44.5	45.7	47.8

90R



DI Reducing Elbow 90°

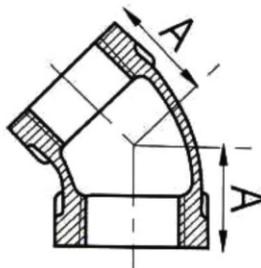


Size	Inch	2x½	2x¾	2x1	2x¾	2x1½
	mm	50x15	50x20	50x25	50x32	50x40
Dim.(mm)	A	37.9	40.6	43.9	48.3	51.3
	B	47.8	50	51.3	53.3	54.9
Size	Inch					
	mm					
Dim.(mm)	A					
	B					

45



Elbow 45°



Size	Inch	½	¾	1	1¼	1½	2
	mm	15	20	25	32	40	50
Dim.(mm)	A			28	33	50	58
Size	Inch	2½					
	mm	65					
Dim.(mm)	A	69					

NEW

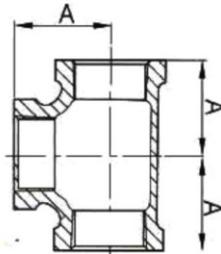
Ductile Iron Pipe Fittings



130



DI Tee

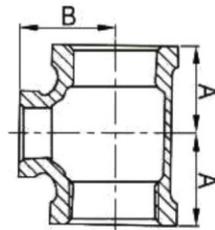


Size	Inch	½	¾	1	1¼	1½	2
	mm	15	20	25	32	40	50
Dim.(mm)	A	28.5	33.3	38.1	44.5	49.3	57.2
Size	Inch	2½	3	4			
	mm	65	80	100			
Dim.(mm)	A	68.6	78.2	96.3			

130R



DI Reducing Tee

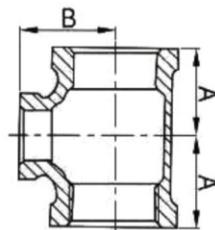


Size	Inch	¾x½	1x½	1x¾	1¼x½	1¼x¾
	mm	20x15	25x15	25x20	32x15	32x20
Dim.(mm)	A	30.5	32	34.8	34	36.8
	B	31	35.5	36.8	38.9	41.2
Size	Inch	1½x1	1½x½	1½x¾	1½x1	1½x1¼
	mm	32x25	40x15	40x20	40x25	40x32
Dim.(mm)	A	40.1	35.8	38.6	41.9	46.2
	B	42.4	42.2	44.5	45.7	47.8

130R



DI Reducing Tee

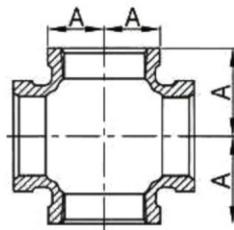


Size	Inch	2x½	2x¾	2x1	2x¾	2x1½
	mm	50x15	50x20	50x25	50x32	50x40
Dim.(mm)	A	37.9	40.6	43.9	48.3	51.3
	B	47.8	50	51.3	53.3	54.9
Size	Inch					
	mm					
Dim.(mm)	A					
	B					

180



DI Cross



Size	Inch	¾	1	1¼	1½	2	
	mm	20	25	32	40	50	
Dim.(mm)	A	33.1	38.1	44.5	49.3	57.2	
Size	Inch						
	mm						
Dim.(mm)	A						

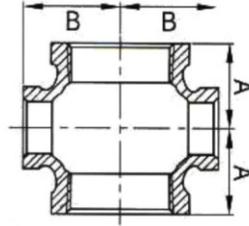
NEW

Ductile Iron Pipe Fittings


 FM
APPROVED


 UL
LISTED
EX27318
180R

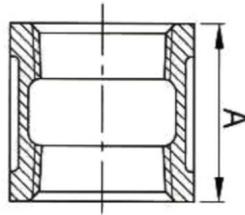
Reducing Cross



Size	Inch	1½x1	1½x1	1½x1¼	2x1	
	mm	32x25	40x25	40x32	50x25	
Dim.(mm)	A	40.1	40.1	46.2	43.9	
	B	42.4	45.7	47.8	51.3	
Size	Inch					
	mm					
Dim.(mm)	A					
	B					

220

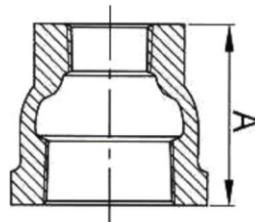
Coupling



Size	Inch	½	¾	1	1¼	1½	2
	mm	15	20	25	32	40	50
Dim.(mm)	A	34.0	38.6	42.4	49	64.6	64.3
Size	Inch						
	mm						
Dim.(mm)	A						

240

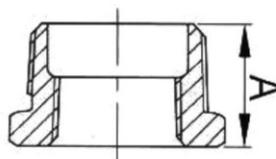
Reducing Coupling



Size	Inch	1x½	1x¾	1¼x¾	¾x1	½x1
	mm	25x15	25x20	32x20	32x25	40x25
Dim.(mm)	A	42.9	42.9	52.3	52.3	58.7
Size	Inch	1½x1¼	2x1	2x1¼	2x1½	
	mm	40x32	50x25	50x32	50x40	
Dim.(mm)	A	58.7	71.4	71.4	71.4	

241

Outside Hex Bushing



Size	Inch	1x½	1x¾	1¼x¾	¾x1	½x1
	mm	25x15	25x20	32x25	40x25	40x32
Dim.(mm)	A	25.5	25.5	27.4	29	29
Size	Inch	2x1¼	2x1½			
	mm	50x32	50x40			
Dim.(mm)	A	31	31			

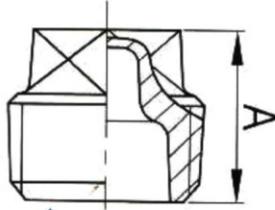
NEW

Ductile Iron Pipe Fittings


 FM
APPROVED


 UL
LISTED
EX27318
291

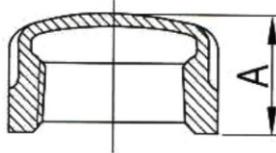
Plug



Size	Inch	½	¾	1	1¼	1½
	mm	15	20	25	32	40
Dim.(mm)	A min	23.9	27.2	31.8	34.5	36.9
Size	Inch	2				
	mm	50				
Dim.(mm)	A min	39.7				

300

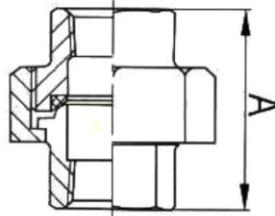
Cap



Size	Inch	½	¾	1	1¼	1½
	mm	16	20	25	32	40
Dim.(mm)	A min	22.1	24.6	29.5	32.5	33.8
Size	Inch	2	2½			
	mm	50	65			
Dim.(mm)	A min	36.8	43.2			

342

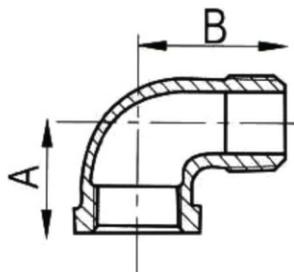
Union



Size	Inch	1	1¼	1½	2	
	mm	25	32	40	50	
Dim.(mm)	A min	52.5	57.5	61	70	
Size	Inch					
	mm					
Dim.(mm)	A min					

92

Street Elbow, 90°



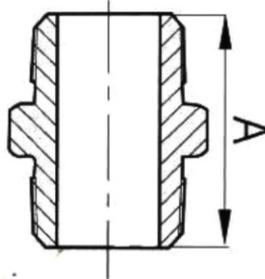
Size	Inch	½	¾	1	1¼	1½	1½
	mm	15	20	25	32	40	50
Dim.(mm)	A	28	33	38	45	50	58
	B	37	43	52	60	65	74
Size	Inch						
	mm						
Dim.(mm)	A						
	B						

NEW

Ductile Iron Pipe Fittings



280



Hexagon Nipple

Size	Inch	½	¾	1	1¼	1½	2
	mm	15	20	25	32	40	50
Dim.(mm)	A	44	47	53	57	59	68
Size	Inch	2½					
	mm	65					
Dim.(mm)	A	75					



Union



Socket



Elbow



Tee



Street Elbow

Feature	Ductile Iron Fittings	Forged Fittings	Remarks
Internationally Used in Fire Fitting	Yes	No	Internationally Chosen Europe as well as USA
International Approval	Yes, UL & FM	No Approval	UL Approval is basic criterion for Fire Fighting Fitting
Ease of Use & Handling	2000 psi/500 psi	1000 psi	Installation Friendly
Test Pressure / Working Pressure	2000 psi/500 psi	1000 psi	Why use high pressure fittings when actual pressure is 300 psi or less
Cost / Price	Low, 30-40% cheaper than Forged Fittings	Very High	Do, we need say more

COMPARISON CHART

Our UL & FM Approved Ductile Iron Pipe Fittings for Fire Fighting, are tested up to 2000 psi, whereas actual pressure carried in Fire Fighting Lines is much lower. Chart shows the comparison between Forged Fittings & Fire Fighting Fittings

Latest & low cost alternative of Forged Fittings tested up to 2000 psi

Basic Dimension for British and Din Standard Pipe Threads

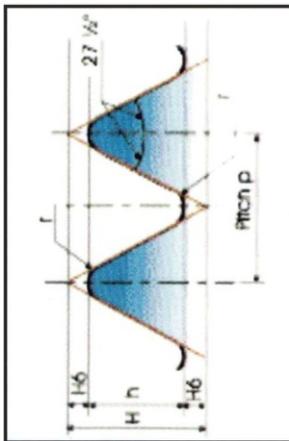
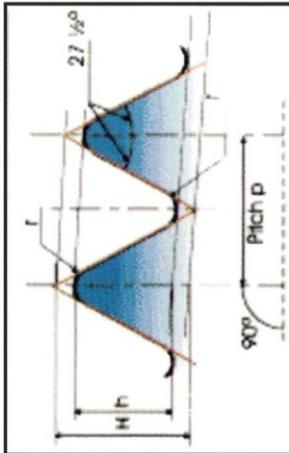
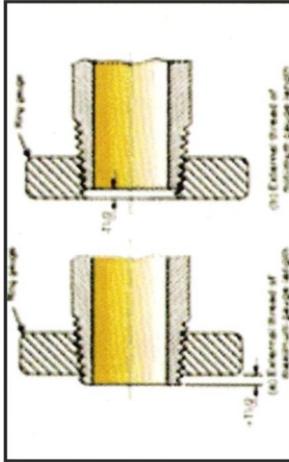


Fig 1 - Parallel thread
 $H = 0.960491 p$
 $h = 0.640327 p$
 $r = 0.137329$



Taper 2 - Taper thread
 $H = 0.960237 p$
 $h = 0.640327 p$
 $r = 0.137278$



(a) External thread of maximum gauge length
 (b) External thread of minimum gauge length

International Standard ISO7/1, Pipe Threads Dimensions

1	2	3	4	5				6		7		8		9		10		11		12		13		14		15		16		17					
				Designations of thread size	Number of threads in 25.4 mm	Pitch P	Height of thread h	Diameters at gauge plane		Nominal	Tolerance $\pm T1/2$		Maximum		Minimum		Tolerance on position of gauge		For Nominal gauge length		For maximum gauge length		For minimum gauge length		Length of useful external thread not less than		For maximum gauge length		For minimum gauge length						
								Major (gauge diameter) d	Pitch d2		Minor d1	Turns of threads	Turns of threads	Turns of threads	Turns of threads	Turns of threads	Turns of threads	Turns of threads	Turns of threads																
1/8	28	0.907	0.581	9.728	9.147	8.566	4	0.9	1	4.9	3.1	1.1	1 1/4	6.5	7.4	5.6																			
1/4	19	1.337	0.856	13.157	12.301	11.445	6	1.3	1	7.3	4.7	1.7	1 1/4	9.7	11	8.4																			
3/8	19	1.337	0.856	16.662	15.806	14.95	6.4	1.3	1	7.7	5.1	1.7	1 1/4	10.1	11.4	8.8																			
1/2	14	1.814	1.162	20.955	19.793	18.631	8.2	1.8	1	10	6.4	2.3	1 1/4	13.2	15	11.4																			
3/4	14	1.814	1.162	26.441	25.279	24.117	9.5	1.8	1	10	7.7	2.3	1 1/4	14.5	16.3	12.7																			
1	11	2.309	1.479	33.249	31.77	30.291	10.4	2.3	1	12.7	8.1	2.9	1 1/4	16.8	19.1	14.5																			
1 1/4	11	2.309	1.479	41.91	40.431	38.952	12.7	2.3	1	15	10.4	2.9	1 1/4	19.1	21.4	16.8																			
1 1/2	11	2.309	1.479	47.803	46.324	44.845	12.7	2.3	1	15	10.4	2.9	1 1/4	19.1	21.4	16.8																			
2	11	2.309	1.479	59.614	58.135	56.656	15.9	2.3	1	18.2	13.6	2.9	1 1/4	23	25.7	21.1																			
2 1/2	11	2.309	1.479	75.184	73.705	72.226	17.5	3.5	1 1/2	21	14	3.5	1 1/2	26.7	30.2	23.2																			
3	11	2.309	1.479	87.884	86.405	84.926	20.6	3.5	1 1/2	24.1	17.1	3.5	1 1/2	29.8	33.3	26.3																			
4	11	2.309	1.479	113.03	111.551	110.072	25.4	3.5	1 1/2	28.9	21.9	3.5	1 1/2	35.8	39.3	32.3																			
5	11	2.309	1.479	138.43	136.951	135.472	28.6	3.5	1 1/2	32.1	25.1	3.5	1 1/2	40.1	43.6	36.6																			
6	11	2.309	1.479	163.83	162.351	160.872	28.6	3.5	1 1/2	32.1	25.1	3.5	1 1/2	40.1	43.6	36.6																			

Note : The information is selected from the International Standard ISO7/1:2000: Pipe threads where pressure - tight joints, Table 1

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