



**GROOVED FITTINGS | DI THREADED FITTINGS | FIRE VALVES
GAS FITTINGS | G.I. FITTINGS | PLUMBING VALVES**

Professional Quality Trustworthy





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.



CERTIFICATIONS - GROOVED FITTINGS





CERTIFICATE OF COMPLIANCE

Certificate Number: EX29142
Report Reference: EX29142-20230919
Issue Date: 2023-SEPTEMBER-19

Issued to: GREEN MANUFACTURING CO LIMITED
C-20 Canal Road, Industrial Area
Jalandhar, Punjab 144004 India

This certificate confirms that representative samples of FITTINGS, RUBBER GASKETED
See Addendum page for Models/Product

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

Standard(s) for Safety: ANSI/CAN/UL 213 Rubber Gasketed Fittings for Fire Protection Service
See UL Product iQ[®] at <https://iq.ulprospector.com> for additional information.

Additional Information:



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CERTIFICATE OF COMPLIANCE

Certificate Number: EX29142
Report Reference: EX29142-20230919
Issue Date: 2023-SEPTEMBER-19

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

Coupling -
1GS- Rigid Coupling
1NH- Heavy Duty Flexible Coupling
1X- Angle Pad Rigid Coupling
1GH- Rigid Bevel Coupling

Reducing coupling -
1NR- Reducer Coupling

Flexible coupling -
1N- Flexible Coupling
1NH- Heavy Duty Flexible Coupling

Grooved Split Flange - 321

Side outlet -
3G- Mechanical Tee Grooved Outlet
3J- Mechanical Tee Threaded Outlet
3JS- Mechanical Tee Grooved Outlet
3L- U-Bolt Mechanical Tee Threaded Outlet



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CERTIFICATE OF COMPLIANCE

Certificate Number: EX29142
Report Reference: EX29142-20230919
Issue Date: 2023-SEPTEMBER-19

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

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

Look for the UL Certification Mark on the product.



Page 2 of 3



New 1GS
Rigid Coupling



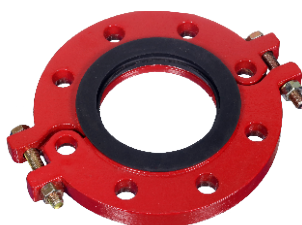
New 1X
Angle Pad Rigid Coupling



New 1N
Flexible Coupling



New 1NR
Reducer Coupling



New 321
Grooved Split Flange



New 321G
Flange Adapter



New 90S
90° Short Radius Elbow



New 120
45° Elbow



New 110
22.5° Elbow



New 105
11.25° Elbow



New 130S Short
Radius Equal Tee



New 131 Grooved
Reducing Tee

DUCTILE IRON GROOVED FITTINGS



New 131N Threaded Reducing Tee



New 180S Short Radius Equal Cross



New 300 End Cap



New 240 Grooved Concentric Reducer



New 240N Threaded Concentric Reducer



New 230 Grooved Eccentric Reducer



New 3G Grooved Mechanical Tee



New 3J Threaded Mechanical Tee



New 3L U-Bolt Mechanical Tee



New 3CC Grooved Mechanical Cross



New 3RR Threaded Mechanical Cross





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.approvalguide.com

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

David B. Fuller

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



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.

Bruce Mahesholz
Bruce Mahesholz, Director North American Certification Program
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutus/contact>



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

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Look for the UL Certification Mark on the product.

Bruce Mahesholz
Bruce Mahesholz, Director North American Certification Program
UL LLC

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**AVAILABLE
COATINGS**



90
DI Elbow 90°



90R
DI Reducing Elbow 90°



130
DI Tee



130R
DI Reducing Tee



180
DI Cross



180R
DI Reducing Cross



220
DI Socket



240
DI Reducing Socket



241
DI Outside Hex Bushing



342
DI Union



291
DI Plug



300
DI Cap Plug

COMPARISON CHART

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
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

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

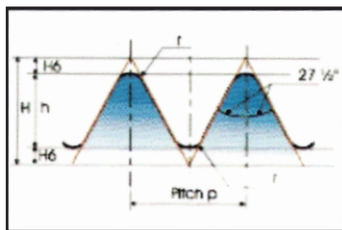
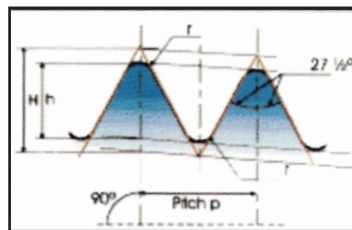
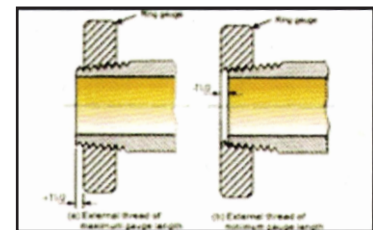


Fig 1 - Parallel thread
 $H = 0.960491 p$
 $h = 0.640327 p$
 $r = 0.137329$



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

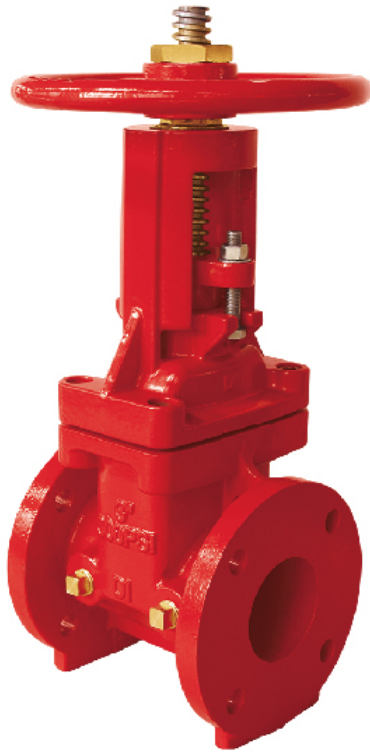
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Designations of thread size	Number of threads in 25.4 mm	Pitch P	Height of thread h	Diameters at gauge plane			Gauge Length (external thread)					Tolerance on position of gauge		Length of useful external thread not less than		
				Major (gauge diameter) d	Pitch d2	Minor d1	Nominal	Tolerance $\pm T/2$		Maximum	Minimum	Tolerance $\pm T/2$		For Nominal gauge length	For maximum gauge length	For minimum gauge length
								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 Table 1



CERTIFICATIONS - FIRE VALVES





OS & Y Gate Valve - Flange End



Butterfly Valve c/w Single Gearbox - Grooved End



Flanged Swing Check Valve



Butterfly Valve c/w Single Gearbox - Wafer End



Grooved Swing Check Valve



Vane Type Water Flow Switch



Flanged Y Strainer



Grooved Y Strainer

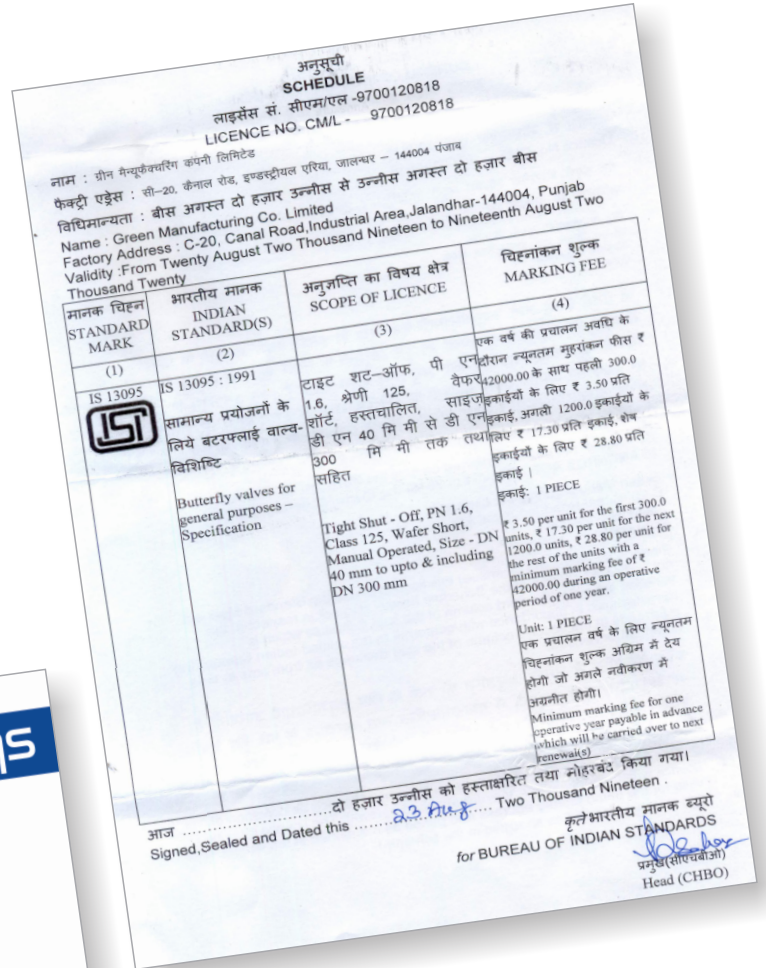


OS & Y Gate Valve - Grooved End



Deluge Alarm Valve







ELBOW 90°



REDUCING
ELBOW 90°



M/F ELBOW 90°



TEE



REDUCING
TEE



SOCKET



REDUCING
SOCKET



UNION

M.I. G.I. GAS PIPE FITTINGS



M/F ADAPTER



REDUCER
NIPPLE



HEX BUSH



PLUG



CAP PLUG



M/F SOCKET



BRASS
ISOLATION
VALVE



BRASS
APPLIANCE
VALVE



G.I. ELBOW



G.I. REDUCING ELBOW



G.I. TEE



G.I. REDUCING TEE



G.I. SOCKET



G.I. REDUCING SOCKET



G.I. CROSS



G.I. REDUCING CROSS



3-WAY ELBOW



G.I. UNION



G.I. NIPPLE



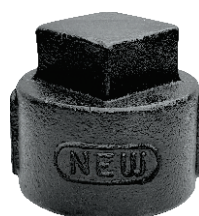
G.I. LONG NIPPLE



G.I. REDUCING NIPPLE



G.I. TANK NIPPLE



CAP PLUG



PLUG



**FORGED BRASS
BALL VALVE**



**SWING
CHECK VALVE**



**MULTI-UTILITY
CHECK VALVE**



**FORGED BRASS
AIR RELEASE VALVE**



**PRESSURE
REDUCING VALVE**



BUTTERFLY VALVE



**DUAL PLATE
CHECK VALVE**



**WAFER TYPE
CHECK VALVE**



**Y-TYPE STRAINER
(FLANGED)**



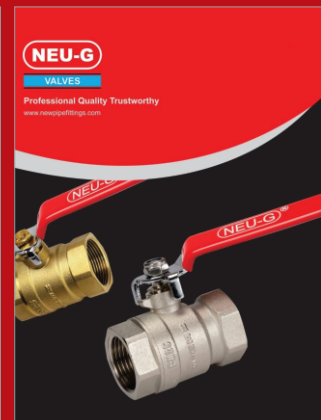
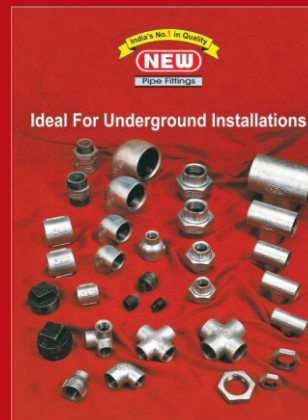
SLUICE GATE VALVE



**NON RETURN REFLUX VALVE
(SWING TYPE)**



FOOT VALVE



GREEN MANUFACTURING CO. LTD.

C-20, Canal Road Industrial Area,
Jalandhar-144 004, Punjab, India

☎ +91 70876 82236, +91 70875 41465 ☎ 0181-5063236

🌐 www.newpipefittings.in ✉ newpipefittings@gmail.com