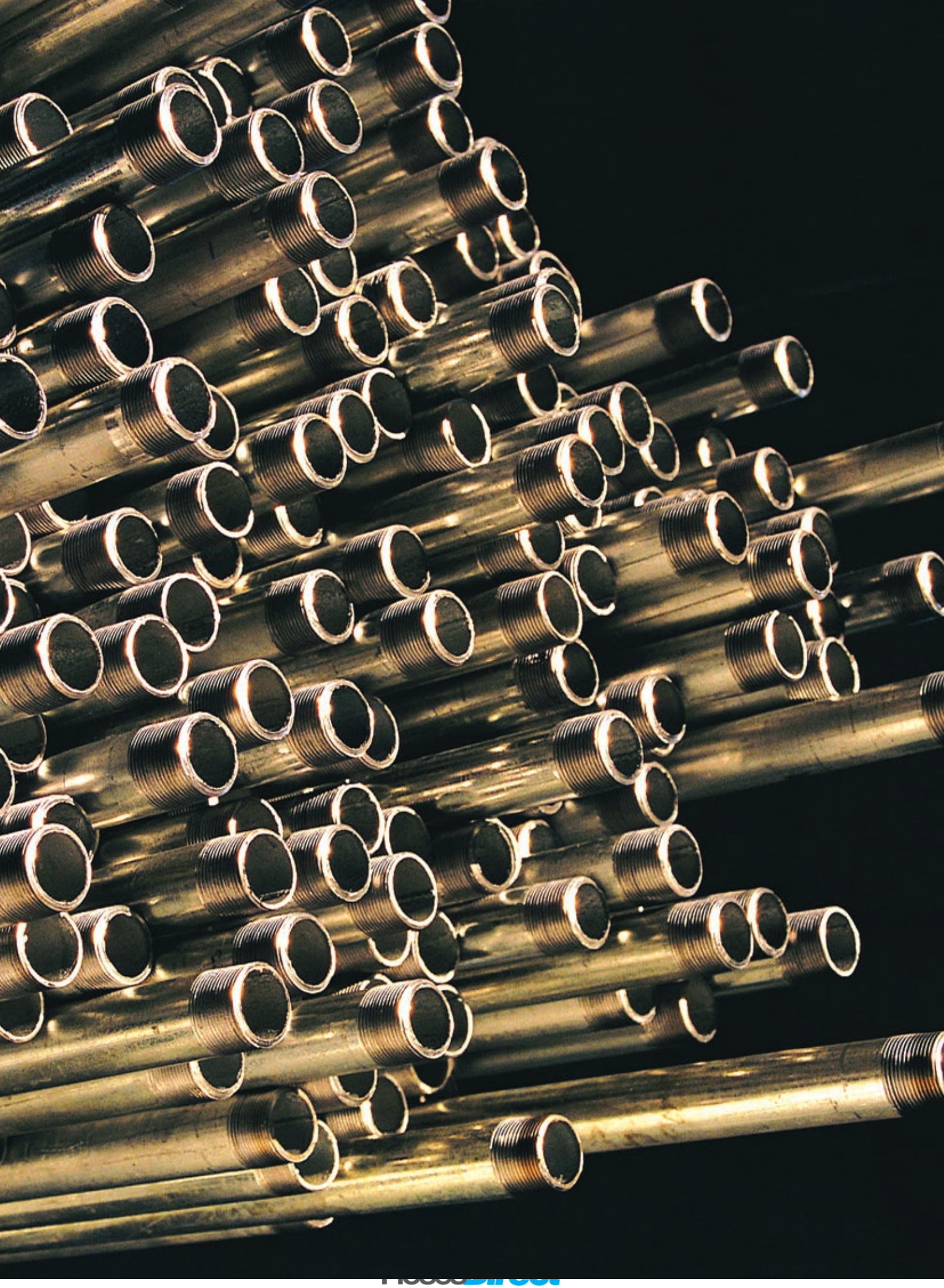
Pipe Nipples



Company Profile

Jinan Meide Casting Co. Ltd. was established in 1962. In the past decades, Jinan Meide has seized each opportunity to consolidate its strength, and has finally developed into what it is today, a large-scale enterprise group with advanced technology, equipment and strong comprehensive strength, known for its complete range of products, large producing capacity, high quality and strong R&D strength. The company owns altogether one main factory, three branch factories, an independent accounting steel pipe company, and a science & technology park.

The company is the largest manufacturer in the fitting industry with the most complete range of products, supplying malleable iron fittings, grooved fittings, grooved couplings, valves, cast iron fittings, ductile iron fittings, steel pipe nipples and couplings, stainless steel nipples, brass pipe nipples, cast bronze fittings, steel pipes, pipe hangers and supports, electric fittings, etc.

Over 50 years, Jinan Meide has been a trusted name in piping solutions by offering high-quality products, service and support to the PVF industry continuously. We provide expertise and product solutions for a wide range of applications, plumbing, mechanical, industrial, air-conditioning and refrigeration, mining, oil, gas, fire protection, equipment and power system. Many of the company's application technology are advanced in the world, with more than 20 patents registered each year, and the company has presided over and participated in the drafting of many important national standards of the industry.

We organize the whole production process in accordance with ISO 9001 and ISO 14001. It has also the most complete certificates in the PVF industry, including UL/FM/NSF of US, CRN/cUL of Canada, DVGW/TUV/CE/VdS of Germany, BSI/LPCB of UK, SII of Israel, JIS of Japan, ABNT of Brazil, GOST-R of Russia, CNBOP of Poland, KS of South Korea, TSE of Turkey, PSB of Singapore, SIRIM of Malaysia, SABS of South Africa etc. The products are well distributed in more than 130 Countries and regions.

As an industry leader and key high-tech enterprise of the national torch plan, the company attaches great importance to environmental protection, energy-saving and emission-reduction. US-EEC recognizes MECH brand malleable iron pipe fittings as "the product to promote for the technology exchange of environmental protection". Protecting the environment is the duty of the company.

Customer satisfaction has always been the company's top objective, and we constantly stick to the principle: to provide customers with a value-added solution rather than simply delivering products.

Company History

1962 — Business Started from Grey Iron Pot

1970 — Malleable Iron Pipe Fittings

1987 — Export, Main Market: Southeast Asia

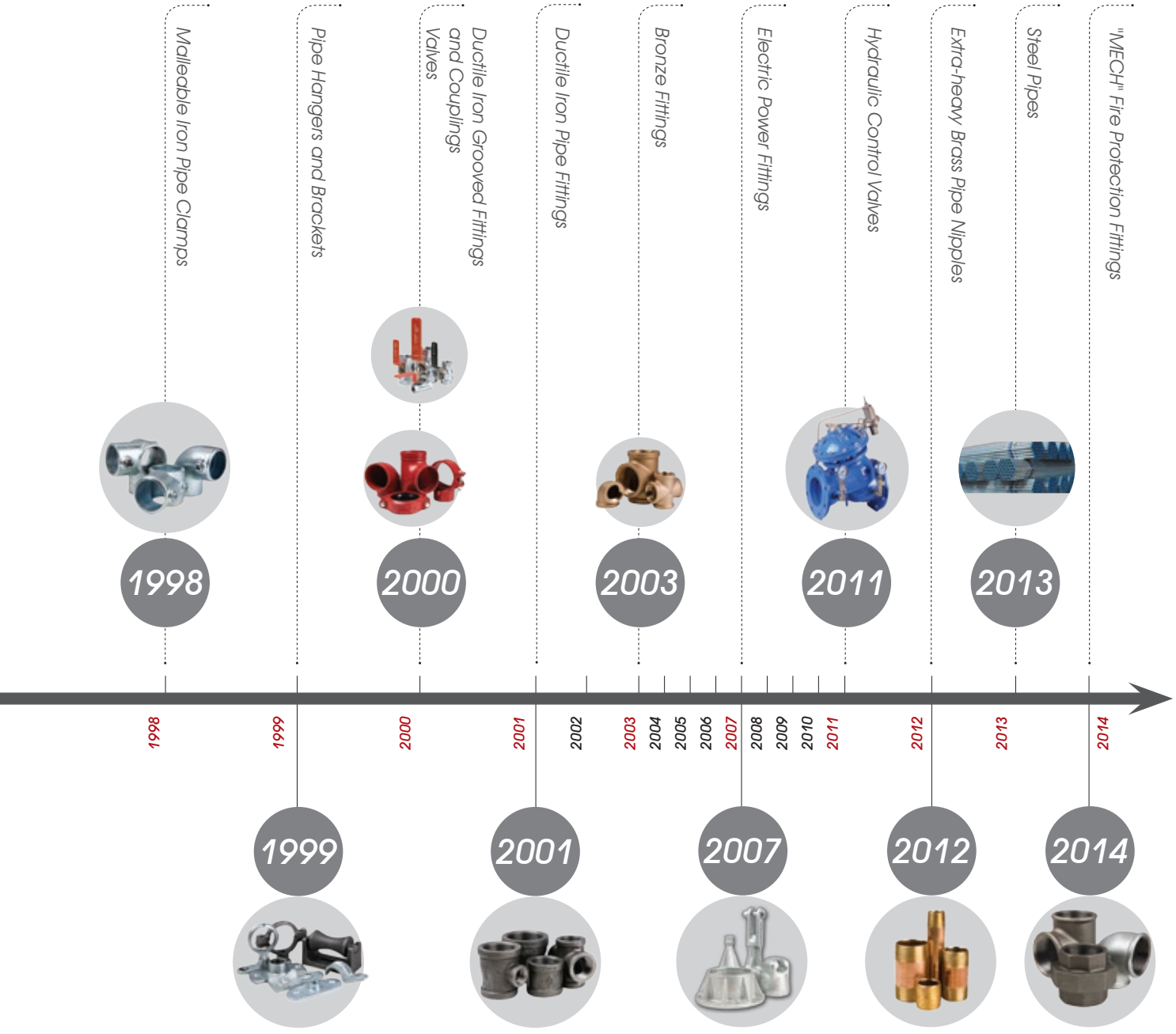
1990 — Conduit Body

1993 — Self Export, Developed US and European Market

1995 — Cast Iron Fittings

1997 — Steel Pipe Nipples
Red Brass Pipe Nipples

1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997


Malleable Iron Pipe Clamps
Pipe Hangers and Brackets
Ductile Iron Grooved Fittings and Couplings Valves
Ductile Iron Pipe Fittings
Bronze Fittings
Electric Power Fittings
Hydraulic Control Valves
Extra-heavy Brass Pipe Nipples
Steel Pipes
"MECH" Fire Protection Fittings
1998
2000
2003
2011
2013
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
1999
2001
2007
2012
2014

Certificates


FM
APPROVED
Certificate of Compliance
Ductile Iron Grooved Fittings and Couplings
FM Approvals


VdS
Certificate
of
Approval
Components and Systems


Loss Prevention Certification Board
This is to certify
Jinan Meide Casting Co. Ltd
LPCB


한국산업규격 표시인증서
한국표준협회장


KITEMARK
LICENCE
BSI


IAPMO RESEARCH AND TESTING, INC.
CERTIFICATE OF LISTING


CERTIFICADO DE CONFORMIDADE
Nº 143.002/09
Jinan Meide Casting Co., Ltd


JIS
JIS MARK CERTIFICATE
Jinan Meide Casting Co., Ltd.
KOREAN STANDARDS ASSOCIATION

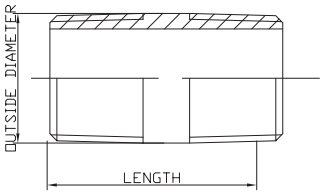

DVGW
DIN-DVGW-Baumusterprüfzertifikat
DIN-DVGW type examination certificate


СЕРТИФИКАТ СООТВЕТСТВИЯ


TÜRK STANDARDLARI ENSTİTÜSÜ
TÜRK STANDARDLARINA UYGUNLUK BELGESİ
TURKISH STANDARDS INSTITUTION
CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS

Brass Pipe Nipple

Material : ASTM B43
Dimensions : ASTM B687
Threads: ASME B1.20.1, ISO 7/1
Schedule : Standard/Extra Heavy

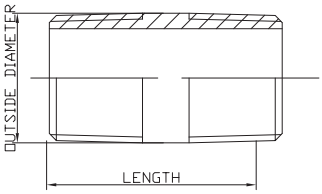


Brass Pipe Nipple Standard/Extra Heavy																		
Pipe Size	Pipe O.D.	Length Close	Pipe Nipple Lengths（In）															
In	In	In																
1/8	0.405	3/4	11/2	2	21/2	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
1/4	0.540	7/8	11/2	2	21/2	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
3/8	0.675	1	11/2	2	21/2	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
1/2	0.840	11/8	11/2	2	21/2	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
3/4	1.050	13/8	11/2	2	21/2	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
1	1.315	11/2	11/2	2	21/2	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
1-1/4	1.660	15/8	X	2	21/2	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
1-1/2	1.900	13/4	X	2	21/2	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
2	2.375	2	X	2	21/2	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
2-1/2	2.875	21/2	X	X	21/2	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
3	3.500	25/8	X	X	X	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
4	4.500	27/8	X	X	X	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
5	5.562	3	X	X	X	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
6	6.625	31/8	X	X	X	X	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
8	8.625	31/2	X	X	X	X	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12

Noted: Other lengths and size available. Contact us for details.

Steel Pipe Nipple
with American Standard

Material： ASTM A53/A106/A333
Dimensions： ASTM A733
Threads： ASME B1.20.1
Schedule： 40/80/160/XXS

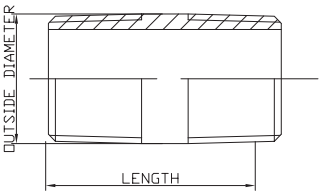


Carbon Steel Pipe Nipple Sch.40/80/160/XXS, Welded/Seamless																		
Pipe Size	Pipe O.D.	Length Close	Pipe Nipple Lengths（In）															
In	In	In																
1/8	0.405	3/4	11/2	2	21/2	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
1/4	0.540	7/8	11/2	2	21/2	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
3/8	0.675	1	11/2	2	21/2	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
1/2	0.840	11/8	11/2	2	21/2	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
3/4	1.050	13/8	11/2	2	21/2	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
1	1.315	11/2	11/2	2	21/2	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
1-1/4	1.660	15/8	X	2	21/2	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
1-1/2	1.900	13/4	X	2	21/2	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
2	2.375	2	X	2	21/2	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
2-1/2	2.875	21/2	X	X	21/2	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
3	3.500	25/8	X	X	X	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
4	4.500	27/8	X	X	X	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
5	5.563	3	X	X	X	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
6	6.625	31/8	X	X	X	X	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
8	8.625	31/2	X	X	X	X	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12

Noted: Other lengths and size available. Grooved end, SQ end and Bevel end available. Contact us for details.

Steel Pipe Nipple
with British/Din Standard

Material : BS EN 10241
Dimensions : BS EN 10241
Threads : ISO7/1
Schedule : Medium/Heavy

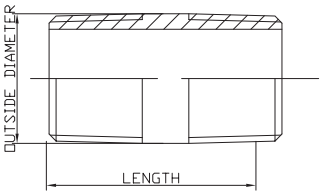


Carbon Steel Pipe Nipple Medium/Heavy ,Welded/Seamless																		
Pipe Size	Pipe O.D.	Length Close	Pipe Nipple Lengths（mm）															
mm	mm	mm																
6	10.3	19	30	40	50	60	80	100	120	150	180	200	250	300	350	400	450	500
8	13.7	27	30	40	50	60	80	100	41/2	150	180	200	250	300	350	400	450	500
10	17.1	28	30	40	50	60	80	100	41/2	150	180	200	250	300	350	400	450	500
15	21.3	37	X	40	50	60	80	100	41/2	150	180	200	250	300	350	400	450	500
20	26.7	39	X	40	50	60	80	100	41/2	150	180	200	250	300	350	400	450	500
25	33.4	46	X	X	50	60	80	100	41/2	150	180	200	250	300	350	400	450	500
32	42.2	51	X	X	50	60	80	100	41/2	150	180	200	250	300	350	400	450	500
40	48.3	51	X	X	50	60	80	100	41/2	150	180	200	250	300	350	400	450	500
50	60.3	60	X	X	X	60	80	100	41/2	150	180	200	250	300	350	400	450	500
65	76.1	69	X	X	X	X	80	100	41/2	150	180	200	250	300	350	400	450	500
80	88.9	75	X	X	X	X	80	100	41/2	150	180	200	250	300	350	400	450	500
100	114.3	87	X	X	X	X	X	100	41/2	150	180	200	250	300	350	400	450	500
125	141.3	96	X	X	X	X	X	X	120	150	180	200	250	300	350	400	450	500
150	168.3	96	X	X	X	X	X	X	120	150	180	200	250	300	350	400	450	500

Noted: Other lengths and size available. Grooved end, SQ end and Bevel end available. Contact us for details.

Stainless Steel Nipple
with American Standard

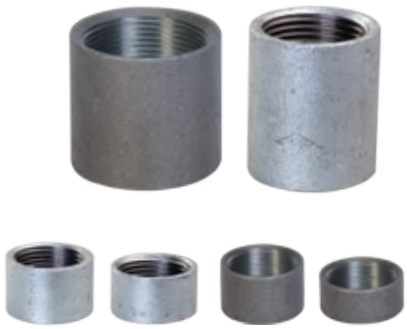
Material： ASTM A312/A312M
Dimensions： ASTM A733
Threads： ASME B1.20.1
Schedule： 40/80

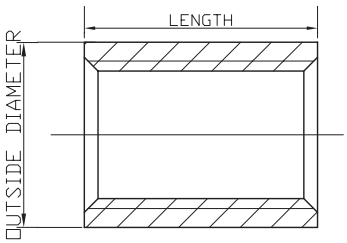


Stainless Steel Nipple Sch.40/80, Welded/Seamless																		
Pipe Size	Pipe O.D.	Length Close	Pipe Nipple Lengths（In）															
In	In	In																
1/8	0.405	3/4	11/2	2	21/2	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
1/4	0.540	7/8	11/2	2	21/2	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
3/8	0.675	1	11/2	2	21/2	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
1/2	0.840	11/8	11/2	2	21/2	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
3/4	1.050	13/8	11/2	2	21/2	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
1	1.315	11/2	11/2	2	21/2	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
1-1/4	1.660	15/8	X	2	21/2	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
1-1/2	1.900	13/4	X	2	21/2	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
2	2.375	2	X	2	21/2	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
2-1/2	2.875	21/2	X	X	21/2	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
3	3.500	25/8	X	X	X	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
4	4.500	27/8	X	X	X	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
5	5.563	3	X	X	X	3	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
6	6.625	31/8	X	X	X	X	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12
8	8.625	31/2	X	X	X	X	31/2	4	41/2	5	51/2	6	7	8	9	10	11	12

Noted: Other lengths and size available. Grooved end, SQ end and Bevel end available. Contact us for details.

Steel Merchant Coupling with American Standard





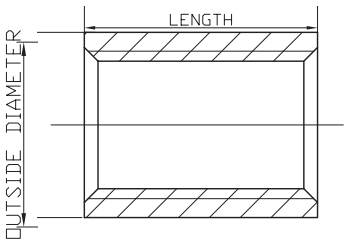
Material : ASTM A865
Dimensions : ASTM A865
Threads : ASME B1.20.1
Schedule : Standard

Size		In	1/8	1/4	3/8	1/2	3/4	1	11/4	11/2
Full	Pipe O.D.	In	0.563	0.719	0.875	1.063	1.313	1.576	1.900	2.200
	Length	In	3/4	1-1/8	1-1/8	1-1/2	1-9/16	1-15/16	2	2
Half	Pipe O.D.	In	0.563	0.719	0.875	1.063	1.313	1.576	1.900	2.200
	Length	In	0.335	0.531	0.531	0.709	0.748	0.925	0.965	0.965

Size		In	2	21/2	3	31/2	4	5	6
Full	Pipe O.D.	In	2.75	3.250	4.000	4.625	5.000	6.296	7.390
	Length	In	2-1/16	3-1/16	3-3/16	3-5/16	3-7/16	3-11/16	3-15/16
Half	Pipe O.D.	In	2.75	3.250	4.000	4.625	5.000	6.296	7.390
	Length	In	1.051	1.496	1.555	1.634	1.673	1.811	1.949

Noted: Other lengths and size available, contact us for details

Steel Merchant Coupling with American Standard



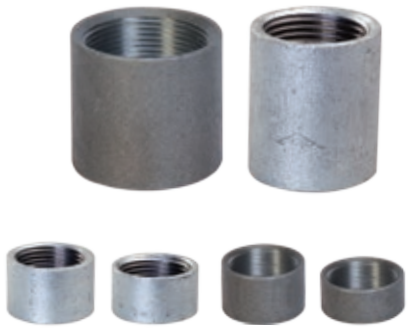
Material : ASTM A865
Dimensions : ASTM A865
Threads : ASME B1.20.1
Schedule : Extra-Strong

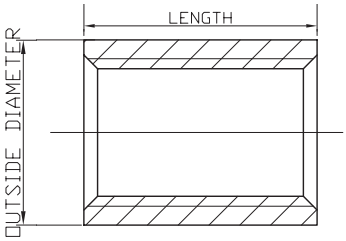
Size		In	1/8	1/4	3/8	1/2	3/4	1	11/4	11/2
Standard	Pipe O.D.	In	0.563	0.719	0.875	1.063	1.313	1.576	2.054	2.2
	Length	In	1-1/18	1-5/8	1-5/8	2-1/8	2-1/8	2-5/8	2-3/4	2-3/4

Size		In	2	21/2	3	31/2	4	5	6	
Standard	Pipe O.D.	In	2.875	3.375	4.0	4.625	5.2	6.296	7.39	
	Length	In	2-7/8	4-1/8	4-1/4	4-3/8	4-1/2	4-5/8	4-7/8	

Noted: Other lengths and size available, contact us for details

Steel Socket
with British/Din Standard





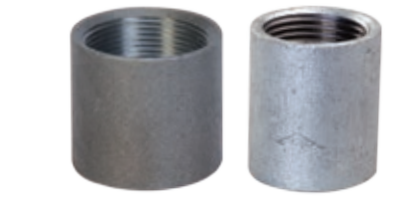
Material : BS EN 10241
Dimensions : BS EN 10241
Threads : ISO 7/1
Schedule : Medium

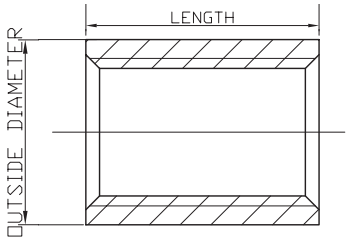
Size		mm	6	8	10	15	20	25	32
Standard	Pipe O.D.	mm	15.0	18.5	21.3	26.6	31.8	39.5	48.3
	Length	mm	17	25	26	34	36	43	48
Half	Pipe O.D.	mm	15	18.5	22	27	32.5	39.5	49
	Length	mm	8	11	12	16	19	21	25

Size		mm	40	50	65	80	100	125	150
Standard	Pipe O.D.	mm	54.5	66.2	82	95	121.4	146.3	173.3
	Length	mm	48	56	65	71	83	92	92
Half	Pipe O.D.	mm	56	68	84	98	124	151	177
	Length	mm	25	28	30	35	40	44	44

Noted: Other lengths and size available, contact us for details

Steel Socket
with British/Din Standard





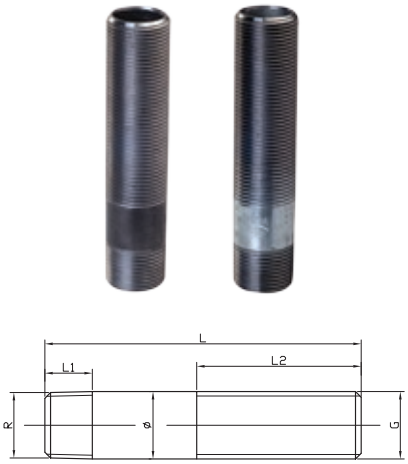
Material : BS EN 10241
Dimensions : BS EN 10241
Threads : ISO 7/1
Schedule : Heavy

Size		mm	6	8	10	15	20	25	32
Standard	Pipe O.D.	mm	15.0	18.5	21.3	26.6	31.8	39.5	48.3
	Length	mm	19.0	27.0	28.0	37.0	39.0	46.0	51.0

Size		mm	40	50	65	80	100	125	150
Standard	Pipe O.D.	mm	54.5	66.2	82	95	121.4	146.3	173.3
	Length	mm	51.0	60.0	69.0	75.0	87.0	96.0	96.0

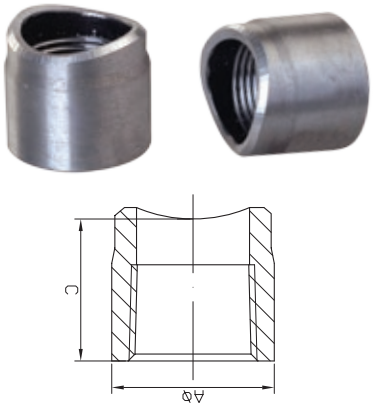
Noted: Other lengths and size available, contact us for details

Steel Nipple-Tank Type



Size	L+2(mm)	L1 (mm)	L2(mm)	Ø (mm)	R	G
1/2X100X52MM	100	15	52	21.3	R1/2	G1/2
3/4X100X54MM	100	15	54	26.7	R3/4	G3/4
1X100X62MM	100	17	62	33.4	R1	G1
11/4X150X70MM	150	20	70	42.2	R11/4	G11/4
11/2X150X71MM	150	20	71	48.3	R11/2	G11/2
2X150X82MM	150	23	82	60.3	R2	G2

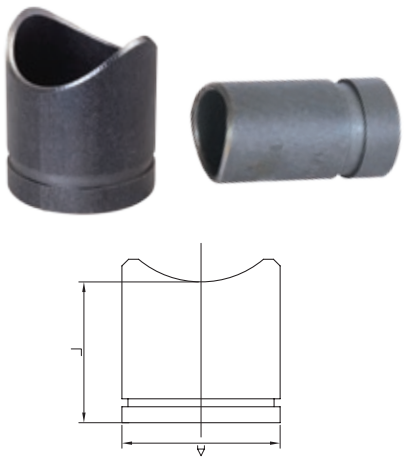
Threaded Welded Outlet



Material : ASTM A106
Threads : ASME B1.20.1, ISO 7/1

Size	In	1/2	3/4	1	11/4	11/2	2	21/2	3	4
Pipe Run Size	In	1 to 4	1to 4	11/4 to 6	11/2 to 6	2 to 6	3 to 6	3 to 8	4 to 8	6 to 8
A	In	1.083	1.331	1.555	1.870	2.165	2.724	3.209	3.957	4.961
C	In	1.063	1.126	1.248	1.374	1.626	1.752	2.217	2.500	3.000

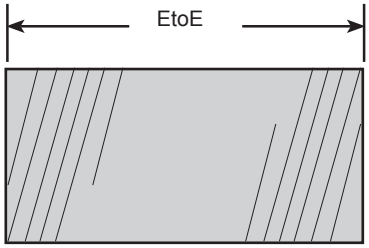
Grooved Welded Outlet



Material : ASTM A53
Groove : AWWA C606 and ISO 6182-12

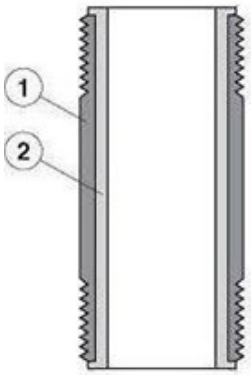
Size	In	11/4	11/2	2	21/2	3	4	6	8
Pipe Run Size	In	11/4-8	11/2-8	2-8	21/2-8	3-8	4-8	6-8	8
A	In	1.660	1.900	2.375	2.875	3.500	4.500	6.625	8.625
L	In	2.969	2.969	2.969	2.969	2.969	3.976	3.976	4

Steel Dielectric Nipple



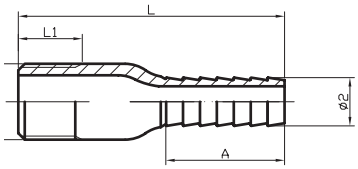
Threaded X Threaded

Nominal Dia. (inches)	Out.Dia. (inches)	Max. Work. Press. (PSI/kPa)	End to End (inches)	Aprx.Wgt.Each (Lbs./kg)
1/2	0.840	300 / 2065	2-1/2	0.15 0.07
1/2	0.840	300 / 2065	3	0.18 0.08
3/4	1.050	300 / 2065	2	0.15 0.07
3/4	1.050	300 / 2065	2-1/2	0.20 0.09
3/4	1.050	300 / 2065	3	0.24 0.11
3/4	1.050	300 / 2065	4	0.34 0.15
1	1.315	300 / 2065	2-1/2	0.27 0.12
1	1.315	300 / 2065	3	0.34 0.15
1	1.315	300 / 2065	4	0.48 0.22
1-1/4	1.660	300 / 2065	4	0.65 0.30
1-1/2	1.900	300 / 2065	4	0.78 0.36
2	2.375	300 / 2065	4	1.06 0.48
2-1/2	2.875	300 / 2065	6	2.47 1.12
3	3.500	300 / 2065	6	3.23 1.47
3-1/2	4.000	300 / 2065	6	3.90 1.77
4	4.500	300 / 2065	6	4.61 2.10



Material Specifications:
1. Body: Carbon steel pipe to ASTM A-53 type E, zinc electroplated.
2. Liner: Polypropylene (PP) plastic
- Dimension: ASTM A733
- Thread: ASME B1.20.1
- Working Pressure: 300 psi
- Temperature Range: 32˚F to 230˚F
- For cool or heat water supply, good corrosion resistance in water.
  Plastic-lined steel nipples act as an insulator to prevent destructive electrolytic corrosion between dissimilar metals.
- Crosslinked polyethylene (PEX) plastic, and polyethylene (PE) plastic available when ask.
- Meets NSF / ANSI 372 lead free requirement

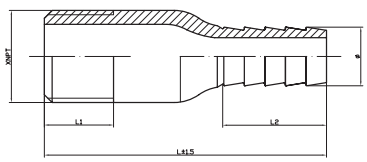
Insert Adapter



Size(In)	L±1.2(mm)	L1±1(mm)	Ø2±0.2	A±1
1/2	79	19.8	16.8	32.9
3/4	79	20	21.2	32.9
1	83.5	25	27.3	32.9
11/4	90	25.5	36.3	32.9
11/2	103.5	26	41.9	43.4
2	103.5	26.5	53	44.8
21/2	131	39.9	63.5	56(8 bar)
3	163	41.5	80	64(8 bar)
4	174	44	102.5	72(8 bar)
6	182	49.4	155	72(8 bar)

Features:
- Pipe: Carbon steel
- Thread: NPT / BSP
- Extra long barb is available upon request.
- Plated male adapter meets NSF / ANSI 372 lead free requirement.
- Plated steel for greater corrosion resistance than unplated steel, prevent rust and weathering.
- Common use: Cold water sprinkler, irrigation, and pump installation.
- Other sizes available, contact us for details.

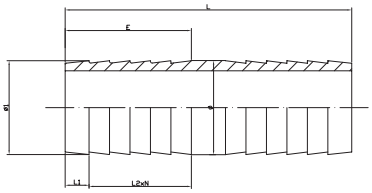
Combination Nipple



Size(In)	L±1.5(mm)	L1(mm)	L2(mm)	φ
1/2	79.5	17.5	35	13.5
3/4	81	17.5	35	19.8
1	89	20.5	35	26.2
11/4	95	21.5	43	32.5
11/2	112.5	22	51	38.6
2	124	22	51	51.3

Features:
- Pipe: Carbon steel
- Thread: NPT / BSP
- Barbed end to create a tight seal on a hose when used with a hose clamp or crimpsleeve, and male NPT / BSP thread on the other end to connection. connect to female NPT / BSP threaded.
- Plated steel for greater corrosion resistance than unplated steel, prevent rust and weathering.
- Recommended for low-pressure discharge or suction applications. Not for air service or steam service.
- The working pressure varies with the construction of the hose, and the application, shall not exceed the working pressure of the lowest rated component in the hose system.
- Other sizes available, contact us for details.

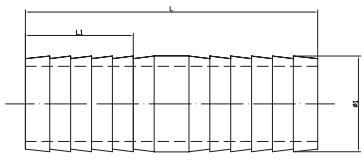
Insert Coupling



Size	L±1.5(mm)	φ	φ1±0.15	E±1(mm)	L1±0.1(mm)	L2±0.1(mm)	N
1/2X80	80	17	16.5	37	7	5	6
3/4X82	82	22	21.6	37	7	5	6
1X84	84	28	27.5	37	7	5	6
11/4X90	90	36.5	35.8	44	8	6	6
11/2X102	102	42.5	41.9	44	8	6	6
2X107	107	54.5	53.6	50	8	7	6

Features:
- Pipe: Carbon steel
- Plated male adapter meets NSF / ANSI 372 lead free requirement.
- Plated steel for greater corrosion resistance than unplated steel, prevent rust and weathering.
- Common use: Cold water sprinkler, irrigation, and pump installation.
- Other sizes available, contact us for details.

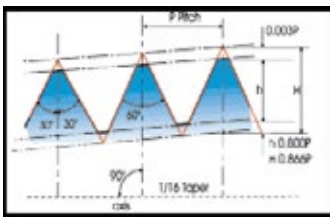
Hose Mender



Size	L (mm)	L1 (mm)	φ1
1/2	89	35	13.5
3/4	89	35	19.8
1	89	35	26.2
11/4	108	43	32.5
11/2	118	51	38.6
2	123	51	51.3

Features:
- Material: Plated steel, unplated steel
- Type: Insert x Insert.
- Barbed end to create a tight seal on a hose when used with a hose clamp or crimpsleeve
- Plated steel for greater corrosion resistance than unplated steel, prevent rust and weathering.
- Recommended for low-pressure discharge or suction applications. Not for air service or steam service.
- The working pressure varies with the construction of the hose, and the application, shall not exceed the working pressure of the lowest rated component in the hose system.
- Other sizes available, contact us for details.

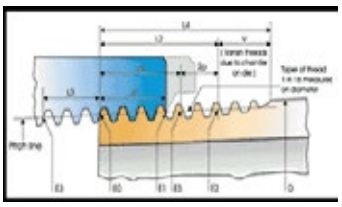
Basic Dimension for American Standard Pipe Threads



Taper thread

H= 0.866025 p=0.866025/n

h= 0.800 p=0.800/n



Taper thread

L2=(0.8D+6.8) 1/n=(0.80D+6.8)p

Nominal Pipe Size(inchs)	O.D.of Pipe (D)	Threads /in (N)	Pitch of Thread (P)	Pitch Dia. at Beginning of External Thread(E0)	Handtight Engagement			Effective Thread.Extenal			Depth of Thread h
					Length² （L1）		Diam³. (E1)	Length⁴ （L2）		Diam. (E2)	
					Inch	Thread		Inch	Thread		
1/8	0.405	27.0	0.03704	0.36351	0.1615	4.36	0.37360	0.2639	7.12	0.38000	0.029
1/4	0.540	18.0	0.05556	0.47739	0.2278	4.10	0.49163	0.4018	7.23	0.50250	0.044
3/8	0.675	18.0	0.05556	0.61201	0.2400	4.32	0.62701	0.4078	7.34	0.63750	0.044
1/2	0.840	14.0	0.07143	0.75843	0.3200	4.48	0.77843	0.5337	7.47	0.79179	0.057
3/4	1.050	14.0	0.07143	0.96768	0.3390	4.75	0.98887	0.5457	7.64	1.00179	0.057
1	1.315	11.5	0.08696	1.21363	0.4000	4.60	1.23863	0.6826	7.85	1.25630	0.069
11/4	1.660	11.5	0.08696	1.55713	0.4200	4.83	1.58338	0.7068	8.13	1.60130	0.069
11/2	1.900	11.5	0.08696	1.79609	0.4200	4.83	1.82234	0.7235	8.32	1.84130	0.069
2	2.375	11.5	0.08696	2.26902	0.4360	5.01	2.29627	0.7565	8.70	2.31630	0.069
21/2	2.875	8.0	0.12500	2.71953	0.6820	5.46	2.76216	131375	9.10	2.79062	0.100
3	3.500	8.0	0.12500	3.34062	0.7660	6.13	3.38850	1.2000	9.60	3.41562	0.100
31/2	4.000	8.0	0.12500	3.83750	0.8210	6.57	3.88881	1.2500	10.00	3.91562	0.100
4	4.500	8.0	0.12500	4.33438	0.8440	6.75	4.38712	1.3000	10.40	4.41562	0.100
5	5.563	8.0	0.12500	5.39073	0.9370	7.50	5.44929	1.4063	11.25	5.47862	0.100
6	6.625	8.0	0.12500	6.44609	0.9580	7.66	6.50597	1.5125	12.10	6.54062	0.100

Nominal Pipe Size (inchs)	Length,L1 Plane to L2 Plane External Thread (L2-L1)		Wrench Makeup Length for Internal Thread⁷			Vanish Thread (V)		Overall8 Length External Thread (L4)	Nominal Complete External Thread5		Height of Thread(h)	Increase in Diam./ Thread (0.0625/n)	Basic⁶ Minor Diam.At Small End of Pipe(K0)
			Length(L3)		Diam. (E3)				Length. (L5)	Diam. (E5)			
	Inch	Thread	Inch	Thread		Inch	Thread						
1/8	0.1024	2.76	0.1111	3	0.35656	0.1285	3.47	0.3924	0.1898	0.37537	0.02963	0.00231	0.3339
1/4	0.1740	3.13	0.1667	3	0.46697	0.1928	3.47	0.5946	0.2907	0.49556	0.04444	0.00347	0.4329
3/8	0.1678	3.02	0.1667	3	0.60160	0.1928	3.47	0.6006	0.2967	0.63056	0.04444	0.00347	0.5676
1/2	0.2137	2.99	0.2143	3	0.74504	0.2478	3.47	0.7815	0.3909	0.78286	0.05714	0.00446	0.7013
3/4	0.2067	2.89	0.2143	3	0.95429	0.2478	3.47	0.7935	0.4029	0.99286	0.05714	0.00446	0.9105
1	0.2828	3.25	0.2609	3	1.19733	0.3017	3.47	0.9845	0.5089	1.24543	0.06957	0.00543	1.1441
11/4	0.2868	3.30	0.2609	3	1.54083	0.3017	3.47	1.0085	0.5329	1.59043	0.06957	0.00543	1.4876
11/2	0.3035	3.49	0.2609	3	1.77978	0.3017	3.47	1.0252	0.5496	1.83043	0.06957	0.00543	1.7265
2	0.3205	3.69	0.2609	3	2.25272	0.3017	3.47	1.0582	0.5826	2.30543	0.06957	0.00543	2.1995
21/2	0.4555	3.64	0.2500	2	2.70391	0.4337	3.47	1.5712	0.8875	2.77500	0.10000	0.00781	2.6195
3	0.4340	3.47	0.2500	2	3.32500	0.4337	3.47	1.6337	0.9500	3.40000	0.10000	0.00781	3.2406
31/2	0.4290	3.43	0.2500	2	3.82188	0.4337	3.47	1.6837	1.0000	3.90000	0.10000	0.00781	3.7375
4	0.4560	3.65	0.2500	2	4.31875	0.4337	3.47	1.7337	1.0500	4.40000	0.10000	0.00781	4.2344
5	0.4693	3.75	0.2500	2	5.37511	0.4337	3.47	1.8400	1.1563	5.46300	0.10000	0.00781	5.2907
6	0.5545	4.44	0.2500	2	6.43047	0.4337	3.47	1.9462	1.2625	6.52500	0.10000	0.00781	6.3461

Note:This information is selected from the International Standard for Pipe Threads, ASME B1.20.1.

Basic Dimension for British and Din Standard Pipe Threads

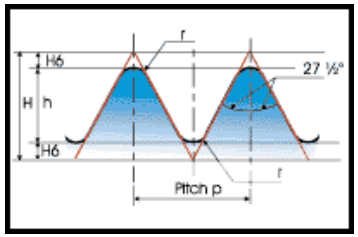
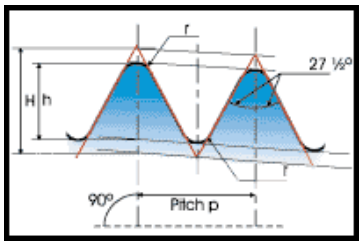
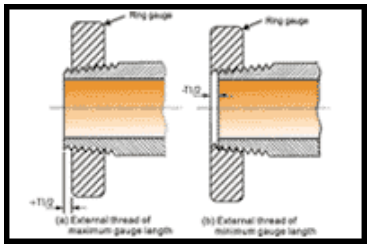


Fig 1 - Parallel thread
H = 0.960491 p
h = 0.640327 p
r = 0.137329 p



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



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

International Standard ISO7/1， Pipe Threads Dimensions

Dimensions in millimeters

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 ±T1/2		Maximum	Minimum	Tolerance ±T2/2		For Nominal gauge length	For maximum gauge length	For minimum gauge length
									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: This information is selected from the International Standard ISO7/1:2000: Pipe threads where pressure - tight joints, Table Table 1