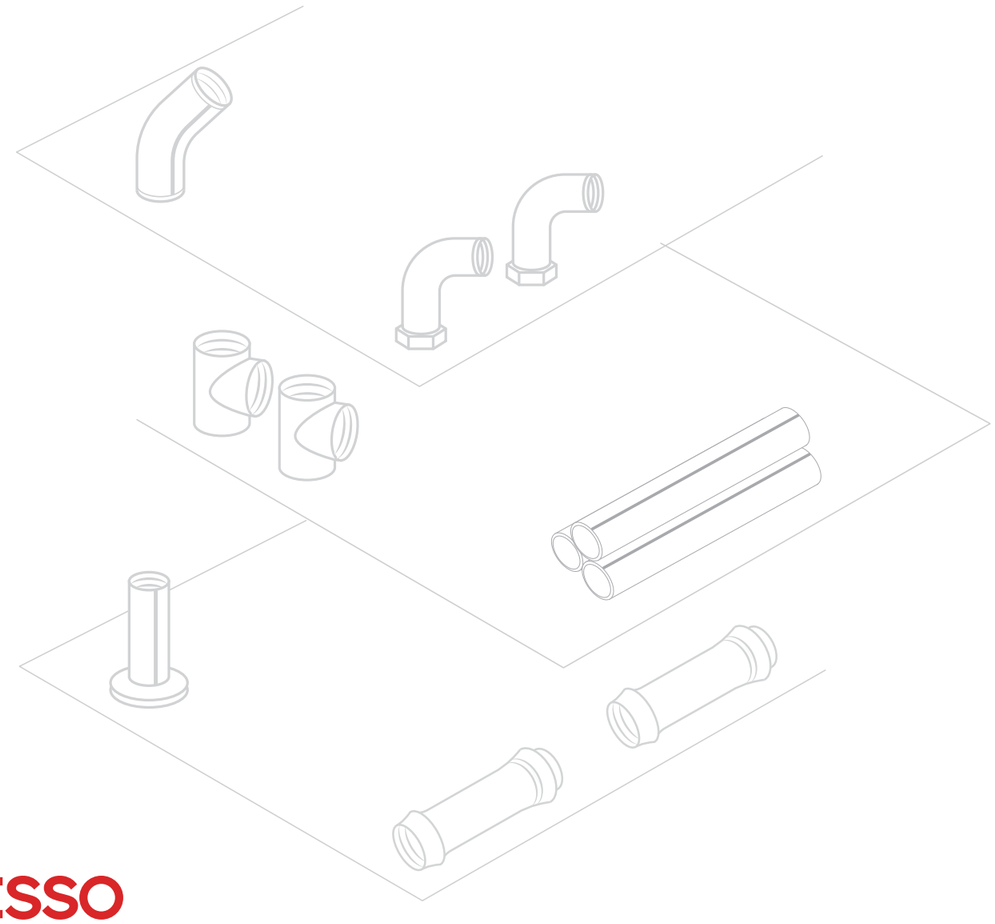


LESSO

CHINA LESSO GROUP HOLDINGS LIMITED
(Listed Stock Code: 2128HK)

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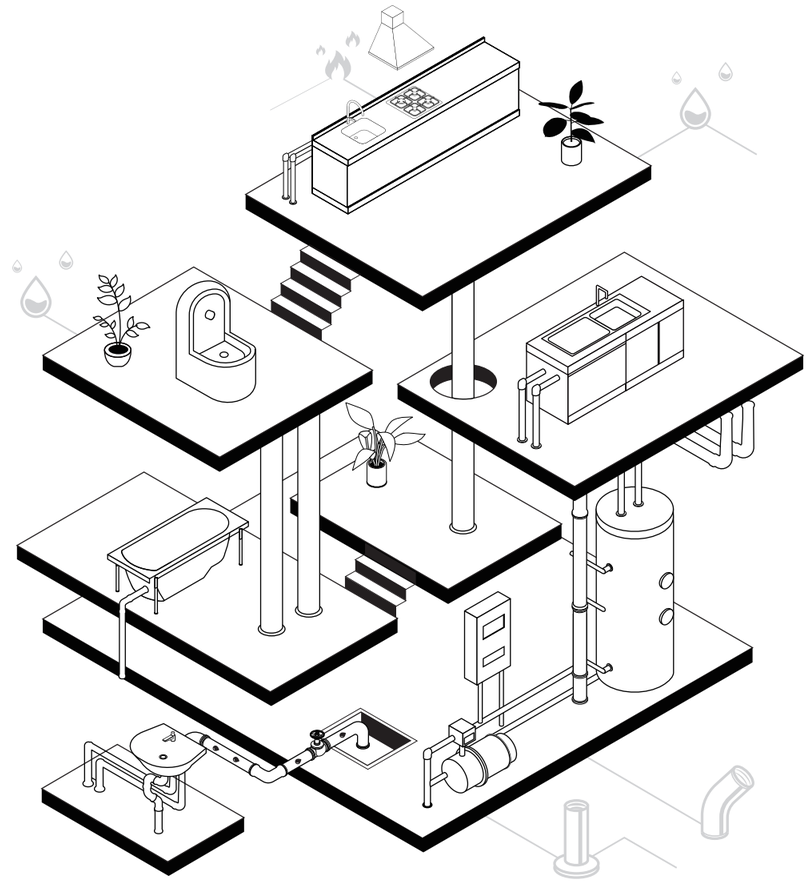
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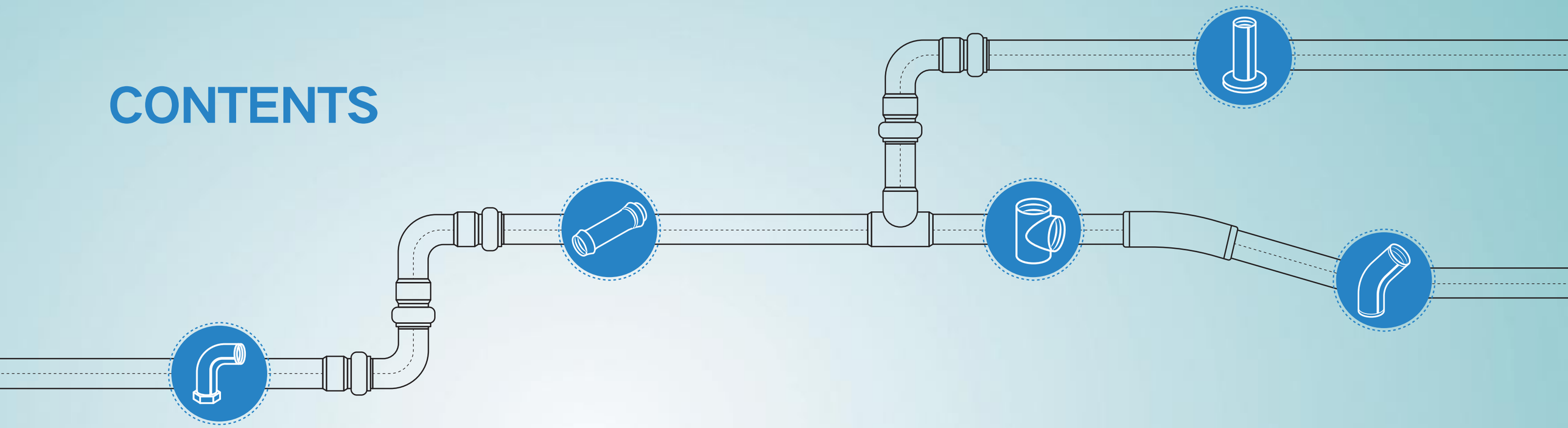
Website alibaba



STAINLESS STEEL PIPE AND FITTINGS

PRODUCT MANUAL

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Enterprise Profile

China LESSO Established in 1986, LESSO (Stock Code: 02128.HK) is a global leader in home furnishings and building materials. The Group’s business portfolio spans plastic piping, building materials and home furnishings, environmental protection, new energy, supply-chain service platforms and others. It offers a wide range of products such as pipes, photovoltaics, plumbing and sanitary ware, integral kitchen materials, integral doors and windows, aluminum formwork and smart scaffolds, water purifiers, water-proofing materials and sealants, fire-fighting equipment, valves, cables, lighting, hygiene materials, items for environmental protection, agricultural facilities, and oceanic aquaculture cages. In 2023, LESSO’s sales revenue reached over USD 4.38 billion.

Since implementing a strategy of globalization and expanding its global presence, LESSO has evolved into a sophisticated multinational. It boasts more than 30 advanced production bases worldwide, broadening its industrial and sales networks to cover Asia, North America, South America, Europe, Africa, and Oceania. This enables LESSO to provide quality products and services for global customers in accordance with its continuously improved strategic layout in a timely and efficient way.

LESSO has founded its R&D center with more than 1,000 scientific researchers, nationally accredited enterprise technology center, and two post-doctoral workstations to support its innovation and technical development. The Group has taken a leading role in the revision of over 120 international and Chinese industry standards. LESSO owns over 3000 patents (some of them are pending), and provides over 10,000 varieties of products, making it one of the most comprehensive manufacturers in the piping industry. Its products are utilized globally in different areas, including home decoration, civil construction, municipal water supply, drainage, energy management, power supply and telecommunications, gas supply, fire-fighting, environmental protection, agriculture, oceanic aquaculture, etc.

3.0
Operating income in 2022(Billion/RMB)

3000+
Patented products

10000+
Product range

30+
Production base



LESSO Stainless Steel Pipe Industry Co., Ltd

Guangdong Liansu Stainless Steel Pipe Co., Ltd. was founded in 2018 with a registered capital of 150 million yuan. It is one of the subsidiaries of China Liansu Group Holding Co., Ltd. (hereinafter referred to as China Liansu, stock code: 02128. HK). The company is located in Gonghe Liansu Industrial Park, Heshan Industrial City, Jiangmen City, covering an area of more than 75000 square meters. The main products include stainless steel pipes, stainless steel ring compression fittings, stainless steel clamp fittings, stainless steel groove fittings, stainless steel butt welded fittings, etc. Provide customers with solutions for gas, water supply, HVAC, and drainage systems.

The company has an advanced management system and a strong technical team, and is a large domestic stainless steel pipe manufacturer integrating research and development, production, sales and installation. The company has passed QEO management system certification, TS pressure pipeline production license certification and drinking water sanitation license certification. The production workshop adopts automatic equipment to ensure sufficient production capacity and stable product quality. At the same time, it is equipped with a product laboratory for testing the whole project to ensure that each batch of products leaving the factory has passed strict inspection.

The company has always insisted on providing customers with more cost-effective products and services to create a comfortable and high-quality home life.



Large Base | High Tech | Warm service | High quality

LESSO Stainless Steel Pipe

Liansu stainless steel water supply pipe is an important project of China Liansu Group Holding Co., Ltd. entering the household sector, and its products are aimed at health and environmental protection of drinking water.

firmness | Product life | Outlook | healthy | economic | safe

Applicable Standards

GB/T 33926-2017	Stainless steel ring compression pipe fittings
GB/T 19228.1-2011	Stainless steel compression fittings assemblies Part 1: Compression fittings
GB/T 19228.2-2011	Thin-walled stainless steel tubes for connection
GB/T 19228.3-2012	Stainless steel compression fitting assemblies - Part 3: O-ring rubber seals
GB/T 12771-2019	Welded stainless steel pipe for fluid transmission
GB/T 12459-2017	Types and parameters of steel butt-welded pipe fittings
CJ/T 117-2018	Socket metal pipe fittings for building
CJ/T 151-2016	Thin-walled stainless steel pipe
CJ/T 152-2016	Thin-walled stainless steel clamping and grooved pipe fittings
HG/T 20592-2009	Steel pipe flange (PN series)
GB/T29038-2012	Technical specification for thin-walled stainless steel pipe

Advantages



Application of Stainless Steel Pipe



Production Workshop and Equipment



Pipeline production area



Raw material area



Pipeline Producing



Automatic laser machine



Automatic water swelling molding machine



Automatic accessories forming machine



Pipeline Producing



Brightness and solid solution of pipes



Pipeline polishing machine



Accessories processing



Automatic accessories welding machine



Automatic accessories cleaning machine



Flaw detection



Air tightness test



Pipeline storehouse



Accessories solid solution

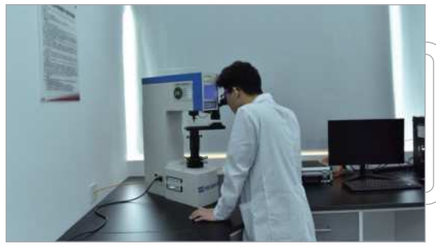


Quality test

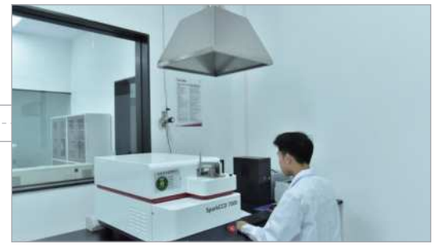


Accessories storehouse

Main Test Equipment In Lab



Multiple function hardness tester



Spectrometer



Metallurgical microscope



Intergranular corrosion tester



Bending angle tester



Microcomputer controlled electronic testing machine



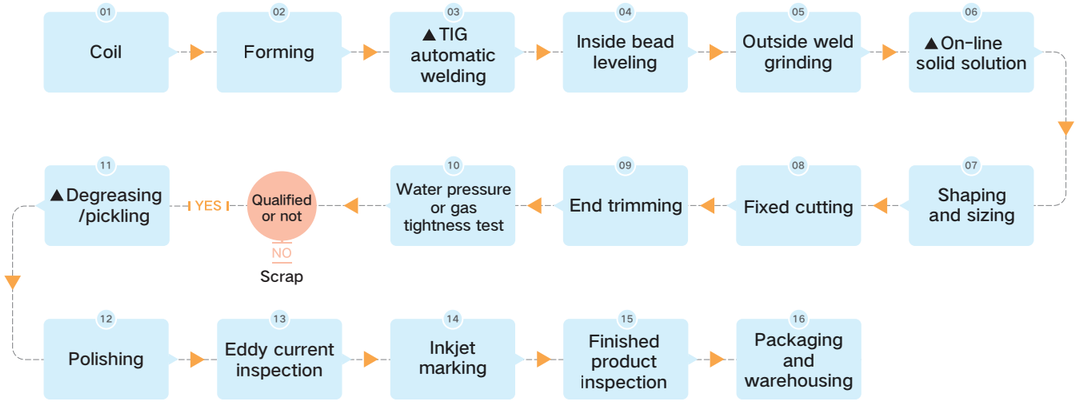
Salt spray testing machine



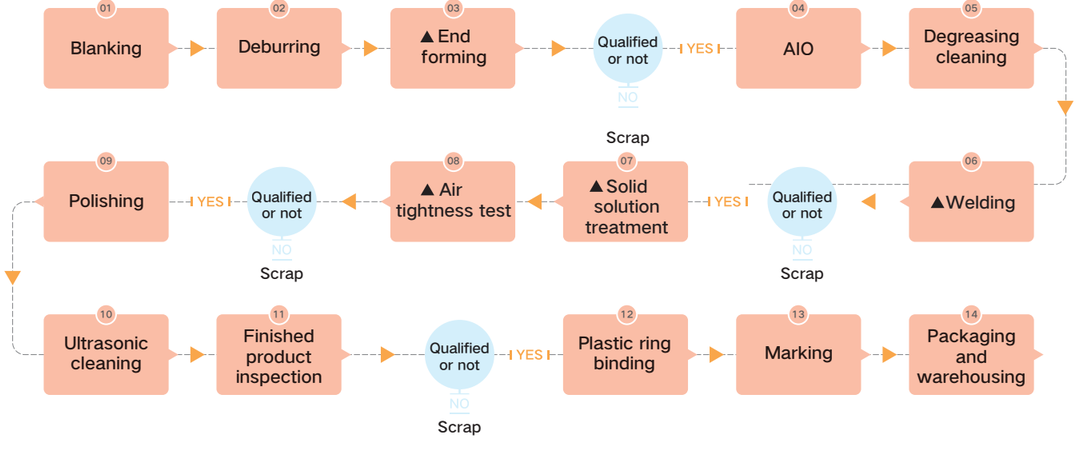
Vibration testing machine

Stainless Steel Pipe Production Process Flow

Pipe production



Pipe fitting production



Automation |

Main idea of automated production: **The production system of the enterprise should be transformed from manpower intensive to technology intensive.**

Automation refers to the continuous expansion of the of mechanical equipment manufacturing to replace manual production in production flow operations, and gradually transform enterprise production from automation to intelligence. Today's society is an era of technological development. Advanced production technology and production equipment can enhance the market competitiveness of enterprises and ensure the long-term stable development of enterprises.

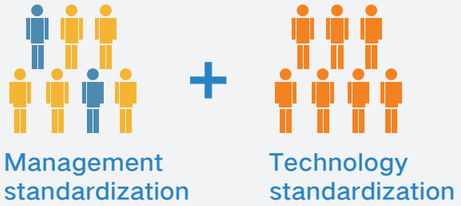


Standardizing |

Standardization is divided into technology standardization and management standardization.

Technology standardization is a technical criterion for the things that need to be unified and coordinated in technical activities. It is the best solution to common and recurring technical problems according to the level of science and technology and practical experience in different periods. For example: Technical reserve, efficiency improvement, recurrence prevention, education and training.

Management standardization can provide management traceability, improve work efficiency, reduce enterprise management costs, and reduce enterprise management risks. Standardized management is the integration of team management wisdom. Standardization means that the accumulated skills and experience of the members are preserved by means of documents, and will not be lost due to the flow of personnel, that is, the personal experience will be turned into everyone's wealth, and everyone's experience will be turned into personal wealth.



Datamation |

Datamation refers to the process of making clear measurement, scientific analysis, and accurate qualitative analysis of business work through a sound basic statistical report system and data analysis system, and conducting recording, querying, reporting, publicity and storage in the form of data reports. The datamation goal management is to provide real and effective scientific decision-making basis for managers, promote the full use of information technology resources with the times, and promote the sustainable development of enterprise management.



Product Certification



Production License of Special Equipment (TS Certificate)

Environmental Management System Certification
Conforming to GB/T24001-2016 ISO14001:2015





LESSO Thin-wall Stainless Steel Pipe Approval Certificate



Pollutant Discharging License



Quality Management System
Certification Conforming to
GB/Y19001-2016 ISO9001:2015



Occupational Health and Safety
Management System Certification
Conforming to
GB/T28001 OHSAS1001:2007



Stainless Steel Water Supply Pipe

Product Introduction

Referring to GB/T12771-2019 and other relevant national and industrial standards, Dachang stainless steel 2B plate is the raw material, 304/316L material from DN15-DN300 specifications, using advanced mechanical equipment, internal and external inert gas protection, single-sided welding and double-sided forming argon arc welding process, to ensure that the weld is full, silvery, and can withstand greater fluid pressure

incrustant-free | Hygiene | No pollution | No leakage | Corrosion resistant





Ring and clamp pressing part	Stainless steel pipe (for water supply) Executive standards: GB/T12771-2019, GB/T19228.2-2011			
Nominal dimension DN	Chinese standard I outsidediameter D(mm)	Chinese standard I wall thickness S(mm)	European standard outside diameter D(mm)	European standard wall thickness S(mm)
DN15	Φ16	0.8 / 1.0	Φ18	1.0+
DN20	Φ20	1.0 / 1.2	Φ22	1.2+
DN25	Φ25.4	1.0 / 1.2	Φ28	1.2+
DN32	Φ32	1.2 / 1.5	Φ35	1.5
DN40	Φ40	1.2 / 1.5	Φ42	1.5
DN50	Φ50.8	1.2 / 1.5	Φ54	1.5
DN60	Φ63.5	1.5		
DN65	Φ76.1	1.5 / 2.0	Φ76.1	2.0
DN80	Φ88.9	1.5 / 2.0	Φ88.9	2.0
DN100	Φ101.6	1.5 / 2.0	Φ108	2.0

Note: The length of the stainless steel pipe (for water supply) for the ring and clamp pressing part is generally 6m, and can also be determined according to the order requirements.

Groove welding, socket welding, and thin-wall butt welding	Stainless steel pipe (for water supply)	Wall thickness (mm) (GB/T12771-2019)
Nominal dimension DN	Outer diameter of steel pipe D (mm)	
DN125	Φ133	2.5
DN150	Φ159	2.5/3.0
DN200	Φ219	3.0/4.0
DN250	Φ273	3.0/4.0
DN300	Φ325	3.0/4.0

Note: The length of the stainless steel pipe (for water supply) for the groove welding, socket welding, and thin-wall butt welding is generally 6m, and can also be determined according to the order requirements.

Butt welding	Stainless steel pipe (for water supply)	Wall thickness (mm) (GB/T12771-2019、GB/T28708-2012)
Nominal dimension DN	Outer diameter of steel pipe D (mm)	
DN65	Φ76.1	4
DN80	Φ88.9	4
DN100	Φ108	4
DN125	Φ133	4
DN150	Φ159	4
DN200	Φ219	5
DN250	Φ273	5
DN300	Φ325	5
DN350	Φ377	5
DN400	Φ426	6
DN450	Φ480	6
DN500	Φ530	6
DN550	Φ559	6
DN600	Φ630	8
DN650	Φ660	8
DN700	Φ720	8
DN750	Φ762	8
DN800	Φ820	8

Note: The stainless steel pipe (for water supply) for the butt welding is a customized product whose length is generally 6m. It can also be determined according to the order requirements.

Home-decoration stainless steel pipe

Pure Steel For The Smooth Flow of Clean Water

—



The surface of the pipe is coated with a plastic sleeve to protect the stainless steel pipe wall
It can be used directly for concealed installation without an additional protective sleeve for more convenient construction

The cross-section of the orange-red coated plastic is a gear ring, which has a good thermal insulation effect and is used for hot water transportation
The cross-section of the green coated plastic is in the shape of a ring, which has good anti-corrosion and anti-aging characteristics and is used for cold water transportation

The cold and hot water are carefully distinguished to better care for the health and safety of your family

LESSO's home-decoration plastic-coated stainless steel pipe for cold and hot water is a new-generation stainless steel pipe product of LESSO

The surface of the pipe has a plastic-coated sleeve, which protects the stainless steel outer wall, and can be used directly for concealed installation without additional protective sleeve for more convenient construction. The cross-section of the orange-red coated plastic is a gear ring, which has a good thermal insulation effect and is mainly used for household hot water transportation pipes. The cross-section of the green-coated plastic is in the shape of a ring, which has good anti-corrosion and anti-aging characteristics. The cold and hot water are carefully distinguished to better care for the health and safety of your family.

Food hygiene grade
316L stainless steel material

PICC
Insured product

Home decoration
Stainless steel water pipe

High pressure water
expansion forming

Fully automatic
integrated forming
Automation/standardization
/datamation



Note: * The data comes from laboratory tests, and results may vary depending on the test environment and conditions.
* The pipe itself can adapt to the extreme temperature environment. However, when the low temperature causes the water to freeze, corresponding thermal measures should be taken to ensure the normal use of the pipe.

Ring pressing part	Collected home-decoration stainless steel water supply pipe	Executive standard: GB/T12771-2019 and GB/T19228.2-2011
Nominal dimension DN	Outer diameter of steel pipe D (mm)	Wall thickness (mm)
DN15	Φ16	0.8
DN20	Φ20	1.0
DN25	Φ25.4	1.0

Note: The length of home-decoration stainless steel water pipe is 2.5m.

Ring and clamp pressing part	The plastic-coated stainless steel water pipe (engineering-oriented) implements the enterprise standard "Q/LSBX 02-2020"			
Nominal dimension DN	Chinese standard I outside diameter D(mm)	Chinese standard I wall thickness S(mm)	European standard outside diameter D(mm)	European standard wall thickness S(mm)
DN15	Φ16	0.8	Φ18	1.0+
DN20	Φ20	1.0	Φ22	1.2+
DN25	Φ25.4	1.0	Φ28	1.2+
DN32	Φ32	1.2	Φ35	1.5
DN40	Φ40	1.2	Φ42	1.5
DN50	Φ50.8	1.2	Φ54	1.5



Note: The length of the plastic-coated stainless steel water pipe (engineering-oriented) for the ring and clamp pressing part is generally 6m, and can also be determined according to the order requirements.

Ring and clamp pressing part	Stainless steel polyurethane insulation composite pipe	Wall thickness (mm)
Nominal dimension DN	Outer diameter of steel pipe D (mm)	S
DN15	Φ16	0.8
DN20	Φ20	1.0
DN25	Φ25.4	1.0
DN32	Φ32	1.2
DN40	Φ40	1.2
DN50	Φ50.8	1.2
DN65	Φ76.1	2.0
DN80	Φ88.9	2.0
DN100	Φ101.6	2.0



Note: The stainless steel fabricated insulation composite pipe for the ring and clamp pressing part is a customized product, whose length is generally 3m or 6m. It can also be determined according to the order requirements.

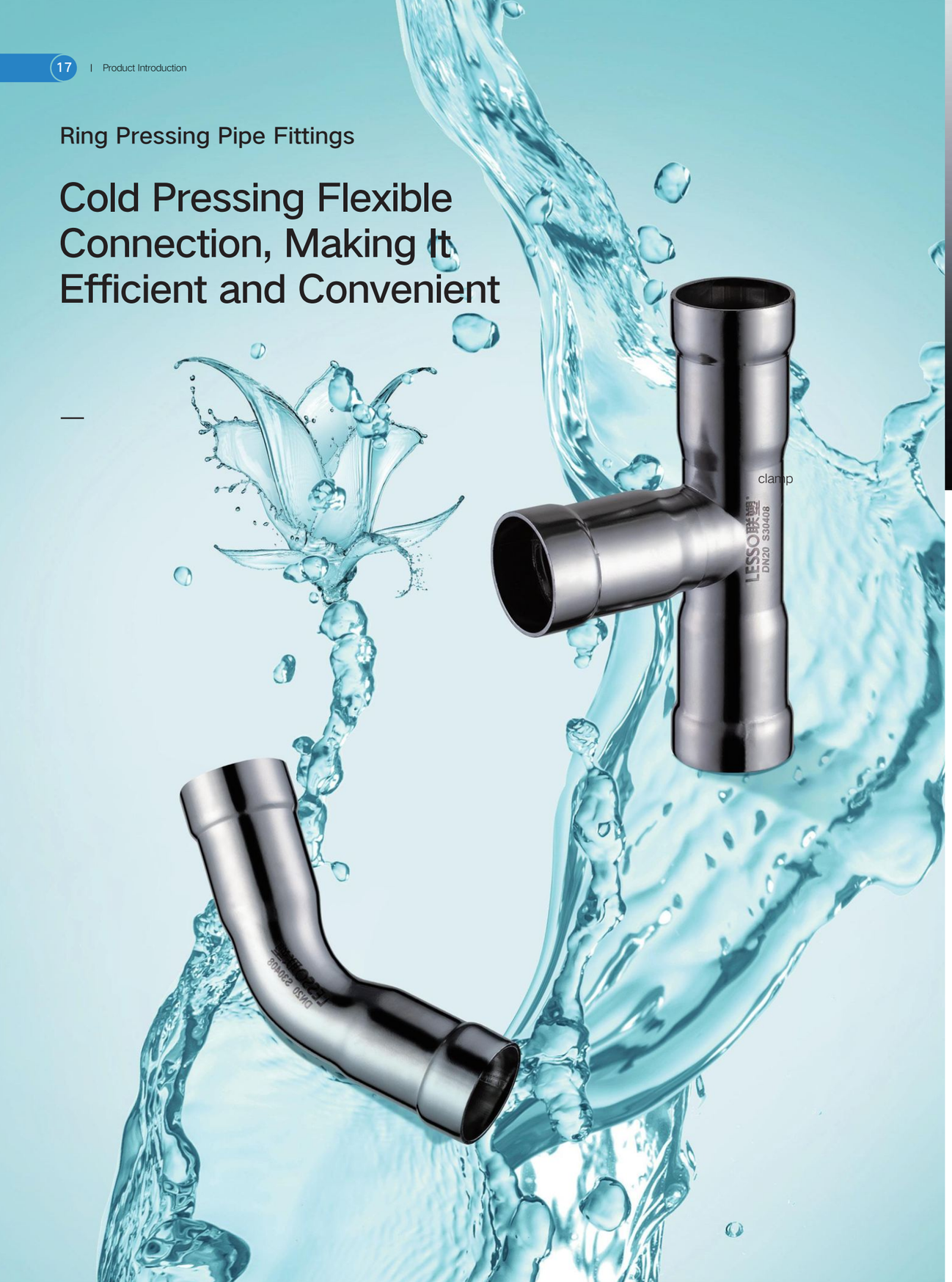
Ring and clamp pressing part	Stainless steel pipe (for gas)	Wall thickness (mm) (GB/T12771-2019)
Nominal dimension DN	Outer diameter of steel pipe D (mm)	S
DN15	Φ16	0.8
DN20	Φ20	1.0
DN25	Φ25.4	1.0
DN32	Φ32	1.2
DN40	Φ40	1.2
DN50	Φ50.8	1.2
DN65	Φ76.1	2.0
DN80	Φ88.9	2.0
DN100	Φ101.6	2.0



Note: The length of the stainless steel pipe (for gas) for the ring and clamp pressing part is generally 6m and can also be determined according to the order requirements.

Ring Pressing Pipe Fittings

Cold Pressing Flexible Connection, Making It Efficient and Convenient





Ring Pressing Pipe Fittings Product Introduction

Hygienic and environmentally friendly

304/316L stainless steel material is corrosion-resistant, the seal ring is made of silicone material, and the food class does not release odor, and does not produce secondary pollution. It is the preferred material for medical, food, and water transport equipment, etc. Stainless steel water pipe materials can still be 100% recycled after 70 years of use, fully in line with the concept of environmental protection.

Unified tool

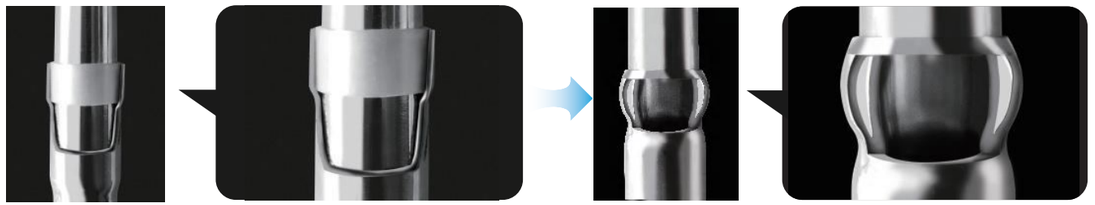
The manufacturer and size of the tool are unified, and the market is smooth.

Smooth transport

LESSO's pipe fittings adopt advanced internal and external wall automatic polishing technology, with higher corrosion resistance, reducing fluid resistance and noise generated by fluid, and ensuring fast and smooth fluid transport.

Sealing performance

The surface of the seal ring is in contact with each other, with superior sealing effect.



Before ring pressing　　After ring pressing

Product Name	Nominal dimension DN	Size (mm)
Joint 	DN15	Φ16
	DN20	Φ20
	DN25	Φ25.4
	DN32	Φ32
	DN40	Φ40
	DN50	Φ50.8
	DN60	Φ63.5
	DN65	Φ76.1
	DN80	Φ88.9
	DN100	Φ101.6
Adjustable joint 	DN15	Φ16
	DN20	Φ20
	DN25	Φ25.4
	DN32	Φ32
	DN40	Φ40
	DN50	Φ50.8
	DN60	Φ63.5
	DN65	Φ76.1
	DN80	Φ88.9
	DN100	Φ101.6
Socket end cap 	DN15	Φ16
	DN20	Φ20
	DN25	Φ25.4
	DN32	Φ32
	DN40	Φ40
	DN50	Φ50.8
	DN60	Φ63.5
	DN65	Φ76.1
	DN80	Φ88.9
	DN100	Φ101.6

Product Name	Nominal dimension DN	Size (mm)
Reducing joint 	DN20×15	Φ20×Φ16
	DN25×15	Φ25.4×Φ16
	DN25x20	Φ25.4×Φ20
	DN32x15	Φ32×Φ16
	DN32x20	Φ32×Φ20
	DN32x25	Φ32×Φ25.4
	DN40x15	Φ40×Φ16
	DN40x20	Φ40×Φ20
	DN40x25	Φ40×Φ25.4
	DN40x32	Φ40×Φ32
	DN50×15	Φ50.8×Φ16
	DN50×20	Φ50.8×Φ20
	DN50×25	Φ50.8×Φ25.4
	DN50×32	Φ50.8×Φ32
	DN50×40	Φ50.8×Φ40
	DN60×15	Φ63.5×Φ16
	DN60×20	Φ63.5×Φ20
	DN60×25	Φ63.5×Φ25.4
	DN60×32	Φ63.5×Φ32
	DN60×40	Φ63.5×Φ40
	DN60×50	Φ63.5×Φ50.8
	DN65×15	Φ76.1×Φ16
	DN65×20	Φ76.1×Φ20
	DN65×25	Φ76.1×Φ25.4
	DN65×32	Φ76.1×Φ32
	DN65×40	Φ76.1×Φ40
	DN65×50	Φ76.1×Φ50.8
	DN65×60	Φ76.1×Φ63.5
	DN80×15	Φ88.9×Φ16
	DN80×20	Φ88.9×Φ20
	DN80×25	Φ88.9×Φ25.4
	DN80×32	Φ88.9×Φ32

Product Name	Nominal dimension DN	Size (mm)
Reducing joint 	DN80×40	Φ88.9×Φ40
	DN80×50	Φ88.9×Φ50.8
	DN80×60	Φ88.9×Φ63.5
	DN80×65	Φ88.9×Φ76.1
	DN100×15	Φ101.6×Φ16
	DN100×20	Φ101.6×Φ20
	DN100×25	Φ101.6×Φ25.4
	DN100×32	Φ101.6×Φ32
	DN100×40	Φ101.6×Φ40
	DN100×50	Φ101.6×Φ50.8
	DN100×60	Φ101.6×Φ63.5
	DN100×65	Φ101.6×Φ76.1
	DN100×80	Φ101.6×Φ88.9
Male thread joint 	DN15×1/2 "	Φ16×1/2 "
	DN20×1/2 "	Φ20×1/2 "
	DN20×3/4 "	Φ20×3/4 "
	DN25×1/2 "	Φ25.4×1/2 "
	DN25×3/4 "	Φ25.4×3/4 "
	DN25×1 "	Φ25.4×1 "
	DN32×1/2 "	Φ32×1/2 "
	DN32×3/4 "	Φ32×3/4 "
	DN32×1 "	Φ32×1 "
	DN32×1-1/4 "	Φ32×1-1/4 "
	DN40×1/2 "	Φ40×1/2 "
	DN40×3/4 "	Φ40×3/4 "
	DN40×1 "	Φ40×1 "
	DN40×1-1/4 "	Φ40×1-1/4 "
	DN40×1-1/2 "	Φ40×1-1/2 "
	DN50×1/2 "	Φ50.8×1/2 "
	DN50×3/4 "	Φ50.8×3/4 "
	DN50×1 "	Φ50.8×1 "

Product Name	Nominal dimension DN	Size (mm)
Female thread joint 	DN15×1/2 "	Φ16×1/2 "
	DN20×1/2 "	Φ20×1/2 "
	DN20×3/4 "	Φ20×3/4 "
	DN25×1/2 "	Φ25.4×1/2 "
	DN25×3/4 "	Φ25.4×3/4 "
	DN25×1 "	Φ25.4×1 "
	DN32×1/2 "	Φ32×1/2 "
	DN32×3/4 "	Φ32×3/4 "
	DN32×1 "	Φ32×1 "
	DN32×1-1/4 "	Φ32×1-1/4 "
	DN40×1/2 "	Φ40×1/2 "
	DN40×3/4 "	Φ40×3/4 "
	DN40×1 "	Φ40×1 "
	DN40×1-1/4 "	Φ40×1-1/4 "
	DN40×1-1/2 "	Φ40×1-1/2 "
	DN50×1/2 "	Φ50.8×1/2 "
	DN50×3/4 "	Φ50.8×3/4 "
	DN50×1 "	Φ50.8×1 "
	DN50×1-1/4 "	Φ50.8×1-1/4 "
	DN50×1-1/2 "	Φ50.8×1-1/2 "
	DN50×2 "	Φ50.8×2 "
Male thread 	DN50×1-1/4 "	Φ50.8×1-1/4 "
	DN50×1-1/2 "	Φ50.8×1-1/2 "
	DN50×2 "	Φ50.8×2 "

Product Name	Nominal dimension DN	Size (mm)
90° elbow (A)	DN15	Φ16
	DN20	Φ20
	DN25	Φ25.4
	DN32	Φ32
	DN40	Φ40
	DN50	Φ50.8
	DN60	Φ63.5
	DN65	Φ76.1
	DN80	Φ88.9
	DN100	Φ101.6



Product Name	Nominal dimension DN	Size (mm)
45° elbow (B)	DN15	Φ16
	DN20	Φ20
	DN25	Φ25.4
	DN32	Φ32
	DN40	Φ40
	DN50	Φ50.8
	DN60	Φ63.5
	DN65	Φ76.1
	DN80	Φ88.9
	DN100	Φ101.6



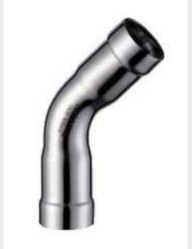
Product Name	Nominal dimension DN	Size (mm)
90° elbow (B)	DN15	Φ16
	DN20	Φ20
	DN25	Φ25.4
	DN32	Φ32
	DN40	Φ40
	DN50	Φ50.8
	DN60	Φ63.5
	DN65	Φ76.1
	DN80	Φ88.9
	DN100	Φ101.6



Product Name	Nominal dimension DN	Size (mm)
90° reducing elbow	DN20×15	Φ20×Φ16
	DN25×15	Φ25.4×Φ16
	DN25×20	Φ25.4×Φ20
	DN32×15	Φ32×Φ16
	DN32×20	Φ32×Φ20
	DN32×25	Φ32×Φ25.4
	DN40×15	Φ40×Φ16
	DN40×20	Φ40×Φ20
	DN40×25	Φ40×Φ25.4
	DN40×32	Φ40×Φ32
	DN50×15	Φ50.8×Φ16
	DN50×20	Φ50.8×Φ20
	DN50×25	Φ50.8×Φ25.4
	DN50×32	Φ50.8×Φ32
	DN50×40	Φ50.8×Φ40
	DN60×15	Φ63.5×Φ16
	DN60×20	Φ63.5×Φ20
	DN60×25	Φ63.5×Φ25.4
	DN60×32	Φ63.5×Φ32
	DN60×40	Φ63.5×Φ40
	DN60×50	Φ63.5×Φ50.8



Product Name	Nominal dimension DN	Size (mm)
45° elbow (A)	DN15	Φ16
	DN20	Φ20
	DN25	Φ25.4
	DN32	Φ32
	DN40	Φ40
	DN50	Φ50.8
	DN60	Φ63.5
	DN65	Φ76.1
	DN80	Φ88.9
	DN100	Φ101.6



Product Name	Nominal dimension DN	Size (mm)
90° reducing elbow	DN65×15	Φ76.1×Φ16
	DN65×20	Φ76.1×Φ20
	DN65×25	Φ76.1×Φ25.4
	DN65×32	Φ76.1×Φ32
	DN65×40	Φ76.1×Φ40
	DN65×50	Φ76.1×Φ50.8
	DN65×60	Φ76.1×Φ63.5
	DN80×15	Φ88.9×Φ16
	DN80×20	Φ88.9×Φ20
	DN80×25	Φ88.9×Φ25.4
	DN80×32	Φ88.9×Φ32
	DN80×40	Φ88.9×Φ40
	DN80×50	Φ88.9×Φ50.8
	DN80×60	Φ88.9×Φ63.5
	DN80×65	Φ88.9×Φ76.1
	DN100×15	Φ101.6×Φ16
	DN100×20	Φ101.6×Φ20
	DN100×25	Φ101.6×Φ25.4
	DN100×32	Φ101.6×Φ32
	DN100×40	Φ101.6×Φ40
	DN100×50	Φ101.6×Φ50.8
	DN100×60	Φ101.6×Φ63.5
	DN100×65	Φ101.6×Φ76.1
	DN100×80	Φ101.6×Φ88.9



Product Name	Nominal dimension DN	Size (mm)
90° female thread elbow	DN32×3/4 "	Φ32×3/4 "
	DN32×1 "	Φ32×1 "
	DN32×1-1/4 "	Φ32×1-1/4 "
	DN40×1/2 "	Φ40×1/2 "
	DN40×3/4 "	Φ40×3/4 "
	DN40×1 "	Φ40×1 "
	DN40×1-1/4 "	Φ40×1-1/4 "
	DN40×1-1/2 "	Φ40×1-1/2 "
	DN50×1/2 "	Φ50.8×1/2 "
	DN50×3/4 "	Φ50.8×3/4 "
	DN50×1 "	Φ50.8×1 "
	DN50×1-1/4 "	Φ50.8×1-1/4 "
	DN50×1-1/2 "	Φ50.8×1-1/2 "
	DN50×2 "	Φ50.8×2 "



Product Name	Nominal dimension DN	Size (mm)
90° female thread elbow	DN15×1/2 "	Φ16×1/2 "
	DN20×1/2 "	Φ20×1/2 "
	DN20×3/4 "	Φ20×3/4 "
	DN25×1/2 "	Φ25.4×1/2 "
	DN25×3/4 "	Φ25.4×3/4 "
	DN25×1 "	Φ25.4×1 "
	DN32×1/2 "	Φ32×1/2 "



Product Name	Nominal dimension DN	Size (mm)
90° male thread elbow	DN15×1/2 "	Φ16×1/2 "
	DN20×1/2 "	Φ20×1/2 "
	DN20×3/4 "	Φ20×3/4 "
	DN25×1/2 "	Φ25.4×1/2 "
	DN25×3/4 "	Φ25.4×3/4 "
	DN25×1 "	Φ25.4×1 "
	DN32×1/2 "	Φ32×1/2 "
	DN32×3/4 "	Φ32×3/4 "
	DN32×1 "	Φ32×1 "
	DN32×1-1/4 "	Φ32×1-1/4 "
	DN40×1/2 "	Φ40×1/2 "
	DN40×3/4 "	Φ40×3/4 "
	DN40×1 "	Φ40×1 "
	DN40×1-1/4 "	Φ40×1-1/4 "
	DN40×1-1/2 "	Φ40×1-1/2 "
	DN50×1/2 "	Φ50.8×1/2 "
	DN50×3/4 "	Φ50.8×3/4 "



Product Name	Nominal dimension DN	Size (mm)
90° male thread elbow	DN50×1 "	Φ50.8×1 "
	DN50×1-1/4 "	Φ50.8×1-1/4 "
	DN50×1-1/2 "	Φ50.8×1-1/2 "
	DN50×2 "	Φ50.8×2 "
90° female thread short elbow 	DN15×1/2 "	Φ16×1/2 "
	DN20×1/2 "	Φ20×1/2 "
	DN20×3/4 "	Φ20×3/4 "
	DN25×1/2 "	Φ25.4×1/2 "
	DN25×3/4 "	Φ25.4×3/4 "
	DN25×1 "	Φ25.4×1 "
Tee 	DN15	Φ16
	DN20	Φ20
	DN25	Φ25.4
	DN32	Φ32
	DN40	Φ40
	DN50	Φ50.8
	DN60	Φ63.5
	DN65	Φ76.1
	DN80	Φ88.9
	DN100	Φ101.6
Reducing tee	DN20×15	Φ20×Φ16
	DN25×15	Φ25.4×Φ16
	DN25×20	Φ25.4×Φ20
	DN32×15	Φ32×Φ16
	DN32×20	Φ32×Φ20
	DN32×25	Φ32×Φ25.4
	DN40×15	Φ40×Φ16
	DN40×20	Φ40×Φ20
	DN40×25	Φ40×Φ25.4

Product Name	Nominal dimension DN	Size (mm)
Reducing tee 	DN40×32	Φ40×Φ32
	DN50×15	Φ50.8×Φ16
	DN50×20	Φ50.8×Φ20
	DN50×25	Φ50.8×Φ25.4
	DN50×32	Φ50.8×Φ32
	DN50×40	Φ50.8×Φ40
	DN60×15	Φ63.5×Φ16
	DN60×20	Φ63.5×Φ20
	DN60×25	Φ63.5×Φ25.4
	DN60×32	Φ63.5×Φ32
	DN60×40	Φ63.5×Φ40
	DN60×50	Φ63.5×Φ50.8
	DN65×15	Φ76.1×Φ16
	DN65×20	Φ76.1×Φ20
	DN65×25	Φ76.1×Φ25.4
	DN65×32	Φ76.1×Φ32
	DN65×40	Φ76.1×Φ40
	DN65×50	Φ76.1×Φ50.8
	DN65×60	Φ76.1×Φ63.5
	DN80×15	Φ88.9×Φ16
	DN80×20	Φ88.9×Φ20
	DN80×25	Φ88.9×Φ25.4
	DN80×32	Φ88.9×Φ32
	DN80×40	Φ88.9×Φ40
	DN80×50	Φ88.9×Φ50.8
	DN80×60	Φ88.9×Φ63.5
	DN80×65	Φ88.9×Φ76.1
	DN100×15	Φ101.6×Φ16
	DN100×20	Φ101.6×Φ20
	DN100×25	Φ101.6×Φ25.4
	DN100×32	Φ101.6×Φ32
	DN100×40	Φ101.6×Φ40

Product Name	Nominal dimension DN	Size (mm)
Reducing tee	DN100×50	Φ101.6×Φ50.8
	DN100×60	Φ101.6×Φ63.5
	DN100×65	Φ101.6×Φ76.1
	DN100×80	Φ101.6×Φ88.9
Female thread tee 	DN15×1/2 "	Φ16×1/2 "
	DN20×1/2 "	Φ20×1/2 "
	DN20×3/4 "	Φ20×3/4 "
	DN25×1/2 "	Φ25.4×1/2 "
	DN25×3/4 "	Φ25.4×3/4 "
	DN25×1 "	Φ25.4×1 "
	DN32×1/2 "	Φ32×1/2 "
	DN32×3/4 "	Φ32×3/4 "
	DN32×1 "	Φ32×1 "
	DN32×1-1/4 "	Φ32×1-1/4 "
	DN40×1/2 "	Φ40×1/2 "
	DN40×3/4 "	Φ40×3/4 "
	DN40×1 "	Φ40×1 "
	DN40×1-1/4 "	Φ40×1-1/4 "
	DN40×1-1/2 "	Φ40×1-1/2 "
	DN50×1/2 "	Φ50.8×1/2 "
	DN50×3/4 "	Φ50.8×3/4 "
	DN50×1 "	Φ50.8×1 "
	DN50×1-1/4 "	Φ50.8×1-1/4 "
	DN50×1-1/2 "	Φ50.8×1-1/2 "
	DN50×2 "	Φ50.8×2 "
Male thread tee	DN15×1/2 "	Φ16×1/2 "
	DN20×1/2 "	Φ20×1/2 "
	DN20×3/4 "	Φ20×3/4 "
	DN25×1/2 "	Φ25.4×1/2 "
	DN25×3/4 "	Φ25.4×3/4 "

Product Name	Nominal dimension DN	Size (mm)
Male thread tee 	DN25×1 "	Φ25.4×1 "
	DN32×1/2 "	Φ32×1/2 "
	DN32×3/4 "	Φ32×3/4 "
	DN32×1 "	Φ32×1 "
	DN32×1-1/4 "	Φ32×1-1/4 "
	DN40×1/2 "	Φ40×1/2 "
	DN40×3/4 "	Φ40×3/4 "
	DN40×1 "	Φ40×1 "
	DN40×1-1/4 "	Φ40×1-1/4 "
	DN40×1-1/2 "	Φ40×1-1/2 "
	DN50×1/2 "	Φ50.8×1/2 "
	DN50×3/4 "	Φ50.8×3/4 "
	DN50×1 "	Φ50.8×1 "
	DN50×1-1/4 "	Φ50.8×1-1/4 "
	DN50×1-1/2 "	Φ50.8×1-1/2 "
	DN50×2 "	Φ50.8×2 "
Cross 	DN15	Φ16
	DN20	Φ20
	DN25	Φ25.4
	DN32	Φ32
	DN40	Φ40
	DN50	Φ50.8
	DN60	Φ63.5
	DN65	Φ76.1
	DN80	Φ88.9
	DN100	Φ101.6
Reducing cross	DN20×15	Φ20×Φ16
	DN25×15	Φ25.4×Φ16
	DN25×20	Φ25.4×Φ20
	DN32×15	Φ32×Φ16

Product Name	Nominal dimension DN	Size (mm)
Reducing cross 	DN32×20	Φ32×Φ20
	DN32×25	Φ32×Φ25.4
	DN40×15	Φ40×Φ16
	DN40×20	Φ40×Φ20
	DN40×25	Φ40×Φ25.4
	DN40×32	Φ40×Φ32
	DN50×15	Φ50.8×Φ16
	DN50×20	Φ50.8×Φ20
	DN50×25	Φ50.8×Φ25.4
	DN50×32	Φ50.8×Φ32
	DN50×40	Φ50.8×Φ40
Rubber ring 	DN15	Φ16
	DN20	Φ20
	DN25	Φ25.4
	DN32	Φ32
	DN40	Φ40
	DN50	Φ50.8
	DN60	Φ63.5
	DN65	Φ76.1
	DN80	Φ88.9
	DN100	Φ101.6
Stainless steel flange change adapter PN1.6MPa/PN2.5MPa HG/T 20592-2009 	DN32	Φ32(Four holes)
	DN40	Φ40(Four holes)
	DN50	Φ50.8(Four holes)
	DN65	Φ76.1(Eight holes)
	DN80	Φ88.9(Eight holes)
	DN100	Φ101.6(Eight holes)
Flange tray	DN80	Φ99(Eight holes)
	DN100	Φ112(Eight holes)

Product Name	Nominal dimension DN	Size (mm)
Female flexible coupling 	DN15×1/2 "	Φ16×1/2 "
	DN20×3/4 "	Φ20×3/4 "
	DN25×1 "	Φ25.4×1 "
	DN32×1-1/4 "	Φ32×1-1/4 "
	DN40×1-1/2 "	Φ40×1-1/2 "
	DN50×2 "	Φ50.8×2 "
Union seal ring 	DN15MH	Φ16
	DN20MH	Φ20
	DN25MH	Φ25.4
	DN32MH	Φ32
	DN40MH	Φ40
	DN50MH	Φ50.8
Nipple	DN15×1/2 "	Φ16×1/2 "
	DN20×3/4 "	Φ20×3/4 "
	DN25×1 "	Φ25.4×1 "
	DN32×1-1/4 "	Φ32×1-1/4 "
	DN40×1-1/2 "	Φ40×1-1/2 "
	DN50×2 "	Φ50.8×2 "
Flange 	DN32	Φ32
	DN40	Φ40
	DN50	Φ50.8
	DN65	Φ76.1
	DN80	Φ88.9
	DN100	Φ101.6
Flexible flange tray 	DN32	Φ42.4(Four holes)
	DN40	Φ48.3(Four holes)
	DN50	Φ59(Four holes)
	DN65	Φ86(Eight holes)

Note: “Flexible female coupling”” Rubber ring” and “Nipples” should be support and use at once.
Using ratio 1:1:1. “Stub flange ” and “Flange tray” should be support and use at once. Using ratio 1:1.



Clamp Pressing Pipe Fittings

Precise, Clean, Fastening, and Quick Connection



Clamp Pressing Pipe Fittings S-shaped Product Introduction

Energy-saving and durable

The production is optimized based on GB/T19228.1-2011 standard. It is formed by high pressure water expansion, and then processed by self-developed inner and outer wall precision grinding and polishing technology, making its inner and outer walls smooth and aesthetically pleasing. The Seal ring is made of hygienic and anti-aging EPDM rubber, which is produced in strict accordance with the relevant standards of G B/T 19228.3-2012. Our stainless steel clamp pressing pipe fittings have high connection strength, and are anti-vibration, easy to install, and compact, which will not cause fundamental damage to the building walls.

Hygienic and environmentally friendly

304/316L stainless steel material is corrosion-resistant, and does not release odor, and does not produce secondary pollution. It is the preferred material for medical, food, and water transport equipment, etc. Stainless steel water pipe materials can still be 100% recycled after 70 years of use, fully in line with the concept of environmental protection.

Smooth transport

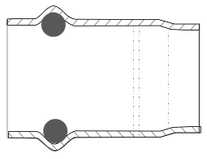
LESSO's pipe fittings adopt advanced internal and external wall automatic polishing technology, with higher corrosion resistance, reducing fluid resistance and noise generated by fluid, and ensuring fast and smooth fluid transport.

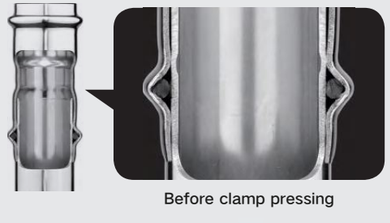
Easy installation

The tools are simple and quick to install. (There are three installation tools available: ① Electric pipe crimping pliers; ② Manual separate clamp-pressing pump; ③ Electric hydraulic pump DY-B).

Sealing performance

It has a compression ratio design for optimal sealing, longer life and greater bearing pressure.





Product Name	Nominal dimension DN	Size (mm)
Join 	DN15	Φ16
	DN20	Φ20
	DN25	Φ25.4
	DN32	Φ32
	DN40	Φ40
	DN50	Φ50.8
	DN65	Φ76.1
	DN80	Φ88.9
	DN100	Φ101.6
Socket end cap 	DN15	Φ16
	DN20	Φ20
	DN25	Φ25.4
	DN32	Φ32
	DN40	Φ40
	DN50	Φ50.8
	DN65	Φ76.1
	DN80	Φ88.9
	DN100	Φ101.6
Reducing joint 	DN20×15	Φ20×Φ16
	DN25×15	Φ25.4×Φ16
	DN25×20	Φ25.4×Φ20
	DN32×15	Φ32×Φ16
	DN32×20	Φ32×Φ20
	DN32×25	Φ32×Φ25.4
	DN40×15	Φ40×Φ16
	DN40×20	Φ40×Φ20
	DN40×25	Φ40×Φ25.4
	DN40×32	Φ40×Φ32
	DN50×15	Φ50.8×Φ16
	DN50×20	Φ50.8×Φ20

Product Name	Nominal dimension DN	Size (mm)
Reducing joint 	DN50×25	Φ50.8×Φ25.4
	DN50×32	Φ50.8×Φ32
	DN50×40	Φ50.8×Φ40
	DN65×15	Φ76.1×Φ16
	DN65×20	Φ76.1×Φ20
	DN65×25	Φ76.1×Φ25.4
	DN65×32	Φ76.1×Φ32
	DN65×40	Φ76.1×Φ40
	DN65×50	Φ76.1×Φ50.8
	DN80×15	Φ88.9×Φ16
	DN80×20	Φ88.9×Φ20
	DN80×25	Φ88.9×Φ25.4
	DN80×32	Φ88.9×Φ32
	DN80×40	Φ88.9×Φ40
	DN80×50	Φ88.9×Φ50.8
	DN80×65	Φ88.9×Φ76.1
	DN100×15	Φ101.6×Φ16
	DN100×20	Φ101.6×Φ20
	DN100×25	Φ101.6×Φ25.4
	DN100×32	Φ101.6×Φ32
	DN100×40	Φ101.6×Φ40
	DN100×50	Φ101.6×Φ50.8
	DN100×65	Φ101.6×Φ76.1
	DN100×80	Φ101.6×Φ88.9
Adjustable joint 	DN15	Φ16
	DN20	Φ20
	DN25	Φ25.4
	DN32	Φ32
	DN40	Φ40
	DN50	Φ50.8
	DN65	Φ76.1

Product Name	Nominal dimension DN	Size (mm)
Adjustable joint	DN80	Φ88.9
	DN100	Φ101.6
Female thread joint 	DN15×1/2 "	Φ16×1/2 "
	DN20×1/2 "	Φ20×1/2 "
	DN20×3/4 "	Φ20×3/4 "
	DN25×1/2 "	Φ25.4×1/2 "
	DN25×3/4 "	Φ25.4×3/4 "
	DN25×1 "	Φ25.4×1 "
	DN32×1/2 "	Φ32×1/2 "
	DN32×3/4 "	Φ32×3/4 "
	DN32×1 "	Φ32×1 "
	DN32×1-1/4 "	Φ32×1-1/4 "
	DN40×1/2 "	Φ40×1/2 "
	DN40×3/4 "	Φ40×3/4 "
	DN40×1 "	Φ40×1 "
	DN40×1-1/4 "	Φ40×1-1/4 "
	DN40×1-1/2 "	Φ40×1-1/2 "
	DN50×1/2 "	Φ50.8×1/2 "
	DN50×3/4 "	Φ50.8×3/4 "
	DN50×1 "	Φ50.8×1 "
	DN50×1-1/4 "	Φ50.8×1-1/4 "
	DN50×1-1/2 "	Φ50.8×1-1/2 "
	DN50×2 "	Φ50.8×2 "
Male thread joint 	DN15×1/2 "	Φ16×1/2 "
	DN20×1/2 "	Φ20×1/2 "
	DN20×3/4 "	Φ20×3/4 "
	DN25×1/2 "	Φ25.4×1/2 "
	DN25×3/4 "	Φ25.4×3/4 "
	DN25×1 "	Φ25.4×1 "
	DN32×1/2 "	Φ32×1/2 "

Product Name	Nominal dimension DN	Size (mm)
Male thread 	DN32×3/4 "	Φ32×3/4 "
	DN32×1 "	Φ32×1 "
	DN32×1-1/4 "	Φ32×1-1/4 "
	DN40×1/2 "	Φ40×1/2 "
	DN40×3/4 "	Φ40×3/4 "
	N40×1 "	Φ40×1 "
	N40×1-1/4 "	Φ40×1-1/4 "
	N40×1-1/2 "	Φ40×1-1/2 "
	N50×1/2 "	Φ50.8×1/2 "
	N50×3/4 "	Φ50.8×3/4 "
	N50×1 "	Φ50.8×1 "
	DN50×1-1/4 "	Φ50.8×1-1/4 "
	DN50×1-1/2 "	Φ50.8×1-1/2 "
	DN50×2 "	Φ50.8×2 "
90° elbow (A) 	DN15	Φ16
	DN20	Φ20
	DN25	Φ25.4
	DN32	Φ32
	DN40	Φ40
	DN50	Φ50.8
	DN65	Φ76.1
	DN80	Φ88.9
	DN100	Φ101.6
90° elbow (B) 	DN15	Φ16
	DN20	Φ20
	DN25	Φ25.4
	DN32	Φ32
	DN40	Φ40
	DN50	Φ50.8
	DN65	Φ76.1

Product Name	Nominal dimension DN	Size (mm)
90° elbow (B)	DN80	Φ88.9
	DN100	Φ101.6
45° elbow (A) 	DN15	Φ16
	DN20	Φ20
	DN25	Φ25.4
	DN32	Φ32
	DN40	Φ40
	DN50	Φ50.8
	DN65	Φ76.1
	DN80	Φ88.9
	DN100	Φ101.6
45° elbow (B) 	DN15	Φ16
	DN20	Φ20
	DN25	Φ25.4
	DN32	Φ32
	DN40	Φ40
	DN50	Φ50.8
	DN65	Φ76.1
	DN80	Φ88.9
	DN100	Φ101.6
90° reducing elbow 	DN20×15	Φ20×Φ16
	DN25×15	Φ25.4×Φ16
	DN25×20	Φ25.4×Φ20
	DN32×15	Φ32×Φ16
	DN32×20	Φ32×Φ20
	DN32×25	Φ32×Φ25.4
	DN40×15	Φ40×Φ16
	DN40×20	Φ40×Φ20
	DN40×25	Φ40×Φ25.4

Product Name	Nominal dimension DN	Size (mm)
90° reducing elbow 	DN40×32	Φ40×Φ32
	DN50×15	Φ50.8×Φ16
	DN50×20	Φ50.8×Φ20
	DN50×25	Φ50.8×Φ25.4
	DN50×32	Φ50.8×Φ32
	DN50×40	Φ50.8×Φ40
	DN65×15	Φ76.1×Φ16
	DN65×20	Φ76.1×Φ20
	DN65×25	Φ76.1×Φ25.4
	DN65×32	Φ76.1×Φ32
	DN65×40	Φ76.1×Φ40
	DN65×50	Φ76.1×Φ50.8
	DN80×15	Φ88.9×Φ16
	DN80×20	Φ88.9×Φ20
	DN80×25	Φ88.9×Φ25.4
	DN80×32	Φ88.9×Φ32
	DN80×40	Φ88.9×Φ40
	DN80×50	Φ88.9×Φ50.8
	DN80×65	Φ88.9×Φ76.1
	DN100×15	Φ101.6×Φ16
	DN100×20	Φ101.6×Φ20
	DN100×25	Φ101.6×Φ25.4
	DN100×32	Φ101.6×Φ32
	DN100×40	Φ101.6×Φ40
	DN100×50	Φ101.6×Φ50.8
	DN100×65	Φ101.6×Φ76.1
	DN100×80	Φ101.6×Φ88.9
90° female thread elbow	DN15×1/2 "	Φ16×1/2 "
	DN20×1/2 "	Φ20×1/2 "
	DN20×3/4 "	Φ20×3/4 "
	DN25×1/2 "	Φ25.4×1/2 "

Product Name	Nominal dimension DN	Size (mm)
90° female thread elbow 	DN25×3/4 "	Φ25.4×3/4 "
	DN25×1 "	Φ25.4×1 "
	DN32×1/2 "	Φ32×1/2 "
	DN32×3/4 "	Φ32×3/4 "
	DN32×1 "	Φ32×1 "
	DN32×1-1/4 "	Φ32×1-1/4 "
	DN40×1/2 "	Φ40×1/2 "
	DN40×3/4 "	Φ40×3/4 "
	DN40×1 "	Φ40×1 "
	DN40×1-1/4 "	Φ40×1-1/4 "
	DN40×1-1/2 "	Φ40×1-1/2 "
	DN50×1/2 "	Φ50.8×1/2 "
	DN50×3/4 "	Φ50.8×3/4 "
	DN50×1 "	Φ50.8×1 "
	DN50×1-1/4 "	Φ50.8×1-1/4 "
	DN50×1-1/2 "	Φ50.8×1-1/2 "
	DN50×2 "	Φ50.8×2 "
90° male thread elbow 	DN15×1/2 "	Φ16×1/2 "
	DN20×1/2 "	Φ20×1/2 "
	DN20×3/4 "	Φ20×3/4 "
	DN25×1/2 "	Φ25.4×1/2 "
	DN25×3/4 "	Φ25.4×3/4 "
	DN25×1 "	Φ25.4×1 "
	DN32×1/2 "	Φ32×1/2 "
	DN32×3/4 "	Φ32×3/4 "
	DN32×1 "	Φ32×1 "
	DN32×1-1/4 "	Φ32×1-1/4 "
	DN40×1/2 "	Φ40×1/2 "
	DN40×3/4 "	Φ40×3/4 "
	DN40×1 "	Φ40×1 "
	DN40×1-1/4 "	Φ40×1-1/4 "

Product Name	Nominal dimension DN	Size (mm)
90° male thread elbow	DN40×1-1/2 "	Φ40×1-1/2 "
	DN50×1/2 "	Φ50.8×1/2 "
	DN50×3/4 "	Φ50.8×3/4 "
	DN50×1 "	Φ50.8×1 "
	DN50×1-1/4 "	Φ50.8×1-1/4 "
	DN50×1-1/2 "	Φ50.8×1-1/2 "
	DN50×2 "	Φ50.8×2 "
90° female thread short elbow 	DN15×1/2 "	Φ16×1/2 "
	DN20×1/2 "	Φ20×1/2 "
	DN20×3/4 "	Φ20×3/4 "
	DN25×1/2 "	Φ25.4×1/2 "
	DN25×3/4 "	Φ25.4×3/4 "
	DN25×1 "	Φ25.4×1 "
Tee 	DN15	Φ16
	DN20	Φ20
	DN25	Φ25.4
	DN32	Φ32
	DN40	Φ40
	DN50	Φ50.8
	DN65	Φ76.1
	DN80	Φ88.9
	DN100	Φ101.6
Reducing tee	DN20×15	Φ20×Φ16
	DN25×15	Φ25.4×Φ16
	DN25×20	Φ25.4×Φ20
	DN32×15	Φ32×Φ16
	DN32×20	Φ32×Φ20
	DN32×25	Φ32×Φ25.4
	DN40×15	Φ40×Φ16

Product Name	Nominal dimension DN	Size (mm)
Reducing tee 	DN40×20	Φ40×Φ20
	DN40×25	Φ40×Φ25.4
	DN40×32	Φ40×Φ32
	DN50×15	Φ50.8×Φ16
	DN50×20	Φ50.8×Φ20
	DN50×25	Φ50.8×Φ25.4
	DN50×32	Φ50.8×Φ32
	DN50×40	Φ50.8×Φ40
	DN65×15	Φ76.1×Φ16
	DN65×20	Φ76.1×Φ20
	DN65×25	Φ76.1×Φ25.4
	DN65×32	Φ76.1×Φ32
	DN65×40	Φ76.1×Φ40
	DN65×50	Φ76.1×Φ50.8
	DN80×15	Φ88.9×Φ16
	DN80×20	Φ88.9×Φ20
	DN80×25	Φ88.9×Φ25.4
	DN80×32	Φ88.9×Φ32
	DN80×40	Φ88.9×Φ40
	DN80×50	Φ88.9×Φ50.8
	DN80×65	Φ88.9×Φ76.1
	DN100×15	Φ101.6×Φ16
	DN100×20	Φ101.6×Φ20
	DN100×25	Φ101.6×Φ25.4
	DN100×32	Φ101.6×Φ32
	DN100×40	Φ101.6×Φ40
	DN100×50	Φ101.6×Φ50.8
	DN100×65	Φ101.6×Φ76.1
	DN100×80	Φ101.6×Φ88.9
Female thread union	DN15×1/2 "	Φ16×1/2 "
	DN20×3/4 "	Φ20×3/4 "

Product Name	Nominal dimension DN	Size (mm)
Female thread 	DN25×1 "	Φ25.4×1 "
	DN32×1-1/4 "	Φ32×1-1/4 "
	DN40×1-1/2 "	Φ40×1-1/2 "
	DN50×2 "	Φ50.8×2 "
Union seal ring 	DN15×1/2 "	Φ16×1/2 "
	DN20×3/4 "	Φ20×3/4 "
	DN25×1 "	Φ25.4×1 "
	DN32×1-1/4 "	Φ32×1-1/4 "
	DN40×1-1/2 "	Φ40×1-1/2 "
	DN50×2 "	Φ50.8×2 "
Female thread tee 	DN15×1/2 "	Φ16×1/2 "
	DN20×1/2 "	Φ20×1/2 "
	DN20×3/4 "	Φ20×3/4 "
	DN25×1/2 "	Φ25.4×1/2 "
	DN25×3/4 "	Φ25.4×3/4 "
	DN25×1 "	Φ25.4×1 "
	2×1/2 "	Φ32×1/2 "
	2×3/4 "	Φ32×3/4 "
	2×1 "	Φ32×1 "
	2×1-1/4 "	Φ32×1-1/4 "
	0×1/2 "	Φ40×1/2 "
	0×3/4 "	Φ40×3/4 "
	0×1 "	Φ40×1 "
	0×1-1/4 "	Φ40×1-1/4 "
	DN40×1-1/2 "	Φ40×1-1/2 "
	DN50×1/2 "	Φ50.8×1/2 "
	DN50×3/4 "	Φ50.8×3/4 "
	DN50×1 "	Φ50.8×1 "
	DN50×1-1/4 "	Φ50.8×1-1/4 "
	DN50×1-1/2 "	Φ50.8×1-1/2 "

Product Name	Nominal dimension DN	Size (mm)
Female thread tee	DN50×2 "	Φ50.8×2 "

Product Name	Nominal dimension DN	Size (mm)
Male thread tee	DN15×1/2 "	Φ16×1/2 "
	DN20×1/2 "	Φ20×1/2 "
	DN20×3/4 "	Φ20×3/4 "
	DN25×1/2 "	Φ25.4×1/2 "
	DN25×3/4 "	Φ25.4×3/4 "
	DN25×1 "	Φ25.4×1 "
	DN32×1/2 "	Φ32×1/2 "
	DN32×3/4 "	Φ32×3/4 "
	DN32×1 "	Φ32×1 "
	DN32×1-1/4 "	Φ32×1-1/4 "
	DN40×1/2 "	Φ40×1/2 "
	DN40×3/4 "	Φ40×3/4 "
	DN40×1 "	Φ40×1 "
	DN40×1-1/4 "	Φ40×1-1/4 "
	DN40×1-1/2 "	Φ40×1-1/2 "
	DN50×1/2 "	Φ50.8×1/2 "
	DN50×3/4 "	Φ50.8×3/4 "
	DN50×1 "	Φ50.8×1 "
	DN50×1-1/4 "	Φ50.8×1-1/4 "
	DN50×1-1/2 "	Φ50.8×1-1/2 "
	DN50×2 "	Φ50.8×2 "

Product Name	Nominal dimension DN	Size (mm)
Cross	DN15	Φ16
	DN20	Φ20
	DN25	Φ25.4
	DN32	Φ32
	DN40	Φ40
	DN50	Φ50.8
	DN65	Φ76.1
	DN80	Φ88.9

Product Name	Nominal dimension DN	Size (mm)
Cross	DN100	Φ101.6

Product Name	Nominal dimension DN	Size (mm)
Reducing cross	DN20×15	Φ20×Φ16
	DN25×15	Φ25.4×Φ16
	DN25×20	Φ25.4×Φ20
	DN32×15	Φ32×Φ16
	DN32×20	Φ32×Φ20
	DN32×25	Φ32×Φ25.4
	DN40×15	Φ40×Φ16
	DN40×20	Φ40×Φ20
	DN40×25	Φ40×Φ25.4
	DN40×32	Φ40×Φ32
	DN50×15	Φ50.8×Φ16
	DN50×20	Φ50.8×Φ20
	DN50×25	Φ50.8×Φ25.4
	DN50×32	Φ50.8×Φ32
	DN50×40	Φ50.8×Φ40

Product Name	Nominal dimension DN	Size (mm)
Stainless steel flange change adapter PN1.6MPa HG/T 20592-2009	DN32	Φ32(Four holes)
	DN40	Φ40(Four holes)
	DN50	Φ50.8(Four holes)
	DN65	Φ76.1(Eight holes)
	DN80	Φ88.9(Eight holes)
	DN100	Φ101.6(Eight holes)

Clamp Pressing Pipe Fittings S-shaped European Standard (EN) Series

Product Name	Nominal dimension DN	Size (mm)
Joint	DN15	Φ18
	DN20	Φ22
	DN25	Φ28
	DN32	Φ35
	DN40	Φ42
	DN50	Φ54
	DN65	Φ76.1
	DN80	Φ88.9
	DN100	Φ108

Product Name	Nominal dimension DN	Size (mm)
Cap	DN15	Φ18
	DN20	Φ22
	DN25	Φ28
	DN32	Φ35
	DN40	Φ42
	DN50	Φ54
	DN65	Φ76.1
	DN80	Φ88.9
	DN100	Φ108

Product Name	Nominal dimension DN	Size (mm)
Reducing joint	DN20×15	Φ22×Φ18
	DN25×15	Φ28×Φ18
	DN25×20	Φ28×Φ22
	DN32×15	Φ35×Φ18
	DN32×20	Φ35×Φ22
	DN32×25	Φ35×Φ28
	DN40×15	Φ42×Φ18
	DN40×20	Φ42×Φ22
	DN40×25	Φ42×Φ28
	DN40×32	Φ42×Φ35
	DN50×15	Φ54×Φ18
	DN50×20	Φ54×Φ22

Product Name	Nominal dimension DN	Size (mm)
Reducing joint	DN50×25	Φ54×Φ28
	DN50×32	Φ54×Φ35
	DN50×40	Φ54×Φ42
	DN65×15	Φ76.1×Φ18
	DN65×20	Φ76.1×Φ22
	DN65×25	Φ76.1×Φ28
	DN65×32	Φ76.1×Φ35
	DN65×40	Φ76.1×Φ42
	DN65×50	Φ76.1×Φ54
	DN80×15	Φ88.9×Φ18
	DN80×20	Φ88.9×Φ22
	DN80×25	Φ88.9×Φ28
	DN80×32	Φ88.9×Φ35
	DN80×40	Φ88.9×Φ42
	DN80×50	Φ88.9×Φ54
	DN80×65	Φ88.9×Φ76.1
	DN100×15	Φ108×Φ18
	DN100×20	Φ108×Φ22
	DN100×25	Φ108×Φ28
	DN100×32	Φ108×Φ35
	DN100×40	Φ108×Φ42
	DN100×50	Φ108×Φ54
	DN100×65	Φ108×Φ76.1
	DN100×80	Φ108×Φ88.9

Product Name	Nominal dimension DN	Size (mm)
Adjustable joint	DN15	Φ18
	DN20	Φ22
	DN25	Φ28
	DN32	Φ35
	DN40	Φ42
	DN50	Φ54
	DN65	Φ76.1

Product Name	Nominal dimension DN	Size (mm)
Adjustable joint	DN80	Φ88.9
	DN100	Φ108
Female thread joint 	DN15×1/2 "	Φ18×1/2 "
	DN20×1/2 "	Φ22×1/2 "
	DN20×3/4 "	Φ22×3/4 "
	DN25×1/2 "	Φ28×1/2 "
	DN25×3/4 "	Φ28×3/4 "
	DN25×1 "	Φ28×1 "
	DN32×1/2 "	Φ35×1/2 "
	DN32×3/4 "	Φ35×3/4 "
	DN32×1 "	Φ35×1 "
	DN32×1-1/4 "	Φ35×1-1/4 "
	DN40×1/2 "	Φ42×1/2 "
	DN40×3/4 "	Φ42×3/4 "
	DN40×1 "	Φ42×1 "
	DN40×1-1/4 "	Φ42×1-1/4 "
	DN40×1-1/2 "	Φ42×1-1/2 "
	DN50×1/2 "	Φ54×1/2 "
	DN50×3/4 "	Φ54×3/4 "
	DN50×1 "	Φ54×1 "
	DN50×1-1/4 "	Φ54×1-1/4 "
	DN50×1-1/2 "	Φ54×1-1/2 "
	DN50×2 "	Φ54×2 "
Male thread joint 	DN15×1/2 "	Φ18×1/2 "
	DN20×1/2 "	Φ22×1/2 "
	DN20×3/4 "	Φ22×3/4 "
	DN25×1/2 "	Φ28×1/2 "
	DN25×3/4 "	Φ28×3/4 "
	DN25×1 "	Φ28×1 "
	DN32×1/2 "	Φ35×1/2 "

Product Name	Nominal dimension DN	Size (mm)
Male thread joint 	DN32×3/4 "	Φ35×3/4 "
	DN32×1 "	Φ35×1 "
	DN32×1-1/4 "	Φ35×1-1/4 "
	DN40×1/2 "	Φ42×1/2 "
	DN40×3/4 "	Φ42×3/4 "
	DN40×1 "	Φ42×1 "
	DN40×1-1/4 "	Φ42×1-1/4 "
	DN40×1-1/2 "	Φ42×1-1/2 "
	DN50×1/2 "	Φ54×1/2 "
	DN50×3/4 "	Φ54×3/4 "
	DN50×1 "	Φ54×1 "
	DN50×1-1/4 "	Φ54×1-1/4 "
	DN50×1-1/2 "	Φ54×1-1/2 "
	DN50×2 "	Φ54×2 "
90° elbow (A) 	DN15	Φ18
	DN20	Φ22
	DN25	Φ28
	DN32	Φ35
	DN40	Φ42
	DN50	Φ54
	DN65	Φ76.1
	DN80	Φ88.9
	DN100	Φ108
90° elbow (B) 	DN15	Φ18
	DN20	Φ22
	DN25	Φ28
	DN32	Φ35
	DN40	Φ42
	DN50	Φ54
	DN65	Φ76.1

Product Name	Nominal dimension DN	Size (mm)
90° elbow (B)	DN80	Φ88.9
	DN100	Φ108
45° elbow (A) 	DN15	Φ18
	DN20	Φ22
	DN25	Φ28
	DN32	Φ35
	DN40	Φ42
	DN50	Φ54
	DN65	Φ76.1
	DN80	Φ88.9
	DN100	Φ108
45° elbow (B) 	DN15	Φ18
	DN20	Φ22
	DN25	Φ28
	DN32	Φ35
	DN40	Φ42
	DN50	Φ54
	DN65	Φ76.1
	DN80	Φ88.9
	DN100	Φ108
90° reducing elbow 	DN20×15	Φ22×Φ18
	DN25×15	Φ28×Φ18
	DN25×20	Φ28×Φ22
	DN32×15	Φ35×Φ18
	DN32×20	Φ35×Φ22
	DN32×25	Φ35×Φ28
	DN40×15	Φ42×Φ18
	DN40×20	Φ42×Φ22
	DN40×25	Φ42×Φ28

Product Name	Nominal dimension DN	Size (mm)
90° reducing elbow 	DN40×32	Φ42×Φ35
	DN50×15	Φ54×Φ18
	DN50×20	Φ54×Φ22
	DN50×25	Φ54×Φ28
	DN50×32	Φ54×Φ35
	DN50×40	Φ54×Φ42
	DN65×15	Φ76.1×Φ18
	DN65×20	Φ76.1×Φ22
	DN65×25	Φ76.1×Φ28
	DN65×32	Φ76.1×Φ35
	DN65×40	Φ76.1×Φ42
	DN65×50	Φ76.1×Φ54
	DN80×15	Φ88.9×Φ18
	DN80×20	Φ88.9×Φ22
	DN80×25	Φ88.9×Φ28
	DN80×32	Φ88.9×Φ35
	DN80×40	Φ88.9×Φ42
	DN80×50	Φ88.9×Φ54
	DN80×65	Φ88.9×Φ76.1
	DN100×15	Φ108×Φ18
	DN100×20	Φ108×Φ22
	DN100×25	Φ108×Φ28
	DN100×32	Φ108×Φ35
	DN100×40	Φ108×Φ42
	DN100×50	Φ108×Φ54
	DN100×65	Φ108×Φ76.1
	DN100×80	Φ108×Φ88.9
90° female thread elbow	DN15×1/2 "	Φ18×1/2 "
	DN20×1/2 "	Φ22×1/2 "
	DN20×3/4 "	Φ22×3/4 "
	DN25×1/2 "	Φ28×1/2 "

Product Name	Nominal dimension DN	Size (mm)
90° female thread elbow 	DN25×3/4 "	Φ28×3/4 "
	DN25×1 "	Φ28×1 "
	DN32×1/2 "	Φ35×1/2 "
	DN32×3/4 "	Φ35×3/4 "
	DN32×1 "	Φ35×1 "
	DN32×1-1/4 "	Φ35×1-1/4 "
	DN40×1/2 "	Φ42×1/2 "
	DN40×3/4 "	Φ42×3/4 "
	DN40×1 "	Φ42×1 "
	DN40×1-1/4 "	Φ42×1-1/4 "
	DN40×1-1/2 "	Φ42×1-1/2 "
	DN50×1/2 "	Φ54×1/2 "
	DN50×3/4 "	Φ54×3/4 "
	DN50×1 "	Φ54×1 "
	DN50×1-1/4 "	Φ54×1-1/4 "
	DN50×1-1/2 "	Φ54×1-1/2 "
	DN50×2 "	Φ54×2 "
90° male thread elbow 	DN15×1/2 "	Φ18×1/2 "
	DN20×1/2 "	Φ22×1/2 "
	DN20×3/4 "	Φ22×3/4 "
	DN25×1/2 "	Φ28×1/2 "
	DN25×3/4 "	Φ28×3/4 "
	DN25×1 "	Φ28×1 "
	DN32×1/2 "	Φ35×1/2 "
	DN32×3/4 "	Φ35×3/4 "
	DN32×1 "	Φ35×1 "
	DN32×1-1/4 "	Φ35×1-1/4 "
	DN40×1/2 "	Φ42×1/2 "
	DN40×3/4 "	Φ42×3/4 "
	DN40×1 "	Φ42×1 "
	DN40×1-1/4 "	Φ42×1-1/4 "

Product Name	Nominal dimension DN	Size (mm)
90° male thread elbow	DN40×1-1/2 "	Φ42×1-1/2 "
	DN50×1/2 "	Φ54×1/2 "
	DN50×3/4 "	Φ54×3/4 "
	DN50×1 "	Φ54×1 "
	DN50×1-1/4 "	Φ54×1-1/4 "
	DN50×1-1/2 "	Φ54×1-1/2 "
	DN50×2 "	Φ54×2 "
90° female thread short elbow 	DN15×1/2 "	Φ18×1/2 "
	DN20×1/2 "	Φ22×1/2 "
	DN20×3/4 "	Φ22×3/4 "
	DN25×1/2 "	Φ28×1/2 "
	DN25×3/4 "	Φ28×3/4 "
	DN25×1 "	Φ28×1 "
Tee 	DN15	Φ18
	DN20	Φ22
	DN25	Φ28
	DN32	Φ35
	DN40	Φ42
	DN50	Φ54
	DN65	Φ76.1
	DN80	Φ88.9
	DN100	Φ108
Reducing tee 	DN20×15	Φ22×Φ18
	DN25×15	Φ28×Φ18
	DN25×20	Φ28×Φ22
	DN32×15	Φ35×Φ18
	DN32×20	Φ35×Φ22
	DN32×25	Φ35×Φ28
	DN40×15	Φ42×Φ18

Product Name	Nominal dimension DN	Size (mm)
Reducing tee 	DN40×20	Φ42×Φ22
	DN40×25	Φ42×Φ28
	DN40×32	Φ42×Φ35
	DN50×15	Φ54×Φ18
	DN50×20	Φ54×Φ22
	DN50×25	Φ54×Φ28
	DN50×32	Φ54×Φ35
	DN50×40	Φ54×Φ42
	DN65×15	Φ76.1×Φ18
	DN65×20	Φ76.1×Φ22
	DN65×25	Φ76.1×Φ28
	DN65×32	Φ76.1×Φ35
	DN65×40	Φ76.1×Φ42
	DN65×50	Φ76.1×Φ54
	DN80×15	Φ88.9×Φ18
	DN80×20	Φ88.9×Φ22
	DN80×25	Φ88.9×Φ28
	DN80×32	Φ88.9×Φ35
	DN80×40	Φ88.9×Φ42
	DN80×50	Φ88.9×Φ54
	DN80×65	Φ88.9×Φ76.1
	DN100×15	Φ108×Φ18
	DN100×20	Φ108×Φ22
	DN100×25	Φ108×Φ28
	DN100×32	Φ108×Φ35
	DN100×40	Φ108×Φ42
	DN100×50	Φ108×Φ54
	DN100×65	Φ108×Φ76.1
	DN100×80	Φ108×Φ88.9
Female thread union	DN15×1/2 "	Φ18×1/2 "
	DN20×3/4 "	Φ22×3/4 "

Product Name	Nominal dimension DN	Size (mm)
Female thread 	DN25×1 "	Φ28×1 "
	DN32×1-1/4 "	Φ35×1-1/4 "
	DN40×1-1/2 "	Φ42×1-1/2 "
	DN50×2 "	Φ54×2 "
Union seal ring 	DN15×1/2 "	Φ18×1/2 "
	DN20×3/4 "	Φ22×3/4 "
	DN25×1 "	Φ28×1 "
	DN32×1-1/4 "	Φ35×1-1/4 "
	DN40×1-1/2 "	Φ42×1-1/2 "
	DN50×2 "	Φ54×2 "
Female thread tee 	DN15×1/2 "	Φ18×1/2 "
	DN20×1/2 "	Φ22×1/2 "
	DN20×3/4 "	Φ22×3/4 "
	DN25×1/2 "	Φ28×1/2 "
	DN25×3/4 "	Φ28×3/4 "
	DN25×1 "	Φ28×1 "
	DN32×1/2 "	Φ35×1/2 "
	DN32×3/4 "	Φ35×3/4 "
	DN32×1 "	Φ35×1 "
	DN32×1-1/4 "	Φ35×1-1/4 "
	DN40×1/2 "	Φ42×1/2 "
	DN40×3/4 "	Φ42×3/4 "
	DN40×1 "	Φ42×1 "
	DN40×1-1/4 "	Φ42×1-1/4 "
	DN40×1-1/2 "	Φ42×1-1/2 "
	DN50×1/2 "	Φ54×1/2 "
	DN50×3/4 "	Φ54×3/4 "
	DN50×1 "	Φ54×1 "
	DN50×1-1/4 "	Φ54×1-1/4 "
	DN50×1-1/2 "	Φ54×1-1/2 "
	DN50×2 "	Φ54×2 "

Product Name	Nominal dimension DN	Size (mm)
Male thread tee 	DN15×1/2 "	Φ18×1/2 "
	DN20×1/2 "	Φ22×1/2 "
	DN20×3/4 "	Φ22×3/4 "
	DN25×1/2 "	Φ28×1/2 "
	DN25×3/4 "	Φ28×3/4 "
	DN25×1 "	Φ28×1 "
	DN32×1/2 "	Φ35×1/2 "
	DN32×3/4 "	Φ35×3/4 "
	DN32×1 "	Φ35×1 "
	DN32×1-1/4 "	Φ35×1-1/4 "
	DN40×1/2 "	Φ42×1/2 "
	DN40×3/4 "	Φ42×3/4 "
	DN40×1 "	Φ42×1 "
	DN40×1-1/4 "	Φ42×1-1/4 "
	DN40×1-1/2 "	Φ42×1-1/2 "
	DN50×1/2 "	Φ54×1/2 "
	DN50×3/4 "	Φ54×3/4 "
	DN50×1 "	Φ54×1 "
	DN50×1-1/4 "	Φ54×1-1/4 "
	DN50×1-1/2 "	Φ54×1-1/2 "
	DN50×2 "	Φ54×2 "

Product Name	Nominal dimension DN	Size (mm)
Reducing cross 	DN20×15	Φ22×Φ18
	DN25×15	Φ28×Φ18
	DN25×20	Φ28×Φ22
	DN32×15	Φ35×Φ18
	DN32×20	Φ35×Φ22
	DN32×25	Φ35×Φ28
	DN40×15	Φ42×Φ18
	DN40×20	Φ42×Φ22
	DN40×25	Φ42×Φ28
	DN40×32	Φ42×Φ35
	DN50×15	Φ54×Φ18
	DN50×20	Φ54×Φ22
	DN50×25	Φ54×Φ28
	DN50×32	Φ54×Φ35
	DN50×40	Φ54×Φ42

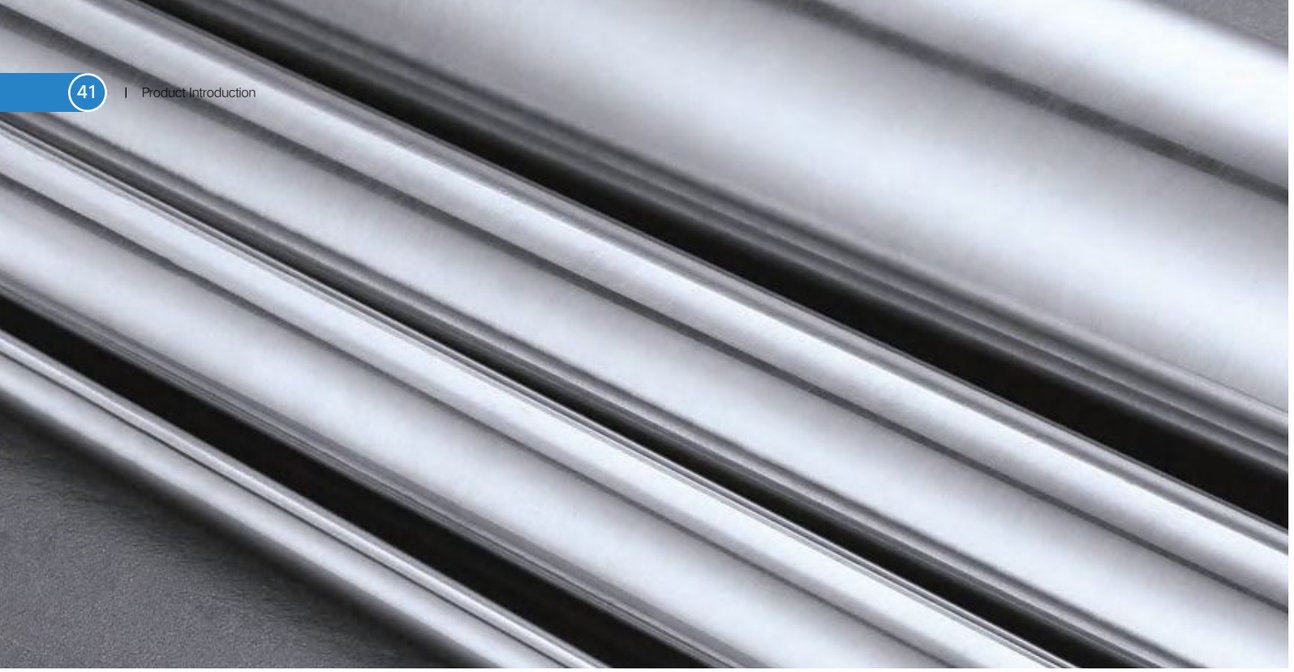
Stainless steel flange change adapter PN1.6MPa HG/T 20592-2009 	DN32	Φ35(Four holes)
	DN40	Φ42(Four holes)
	DN50	Φ54(Four holes)
	DN65	Φ76.1(Eight holes)
	DN80	Φ88.9(Eight holes)
	DN100	Φ108(Eight holes)

Cross 	DN15	Φ18
	DN20	Φ22
	DN25	Φ28
	DN32	Φ35
	DN40	Φ42
	DN50	Φ54
	DN65	Φ76.1
	DN80	Φ88.9
	DN100	Φ108



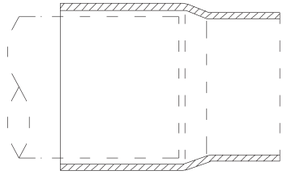
Socket Welded Pipe Fittings

Magnetic Polishing, Making It Seamless



Socket Welded Pipe Fittings
Product Introduction





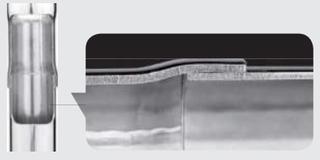
The physical features of the material are highlighted in the design of the socket of the argon arc welded pipe fittings. The socket is designed with a straight pipe and a slow slope. The slow slope is obtuse with a special arc and the straight pipe at the socket, which is connected into an arc shape to avoid stress concentration caused by thermal expansion after the pipe is inserted into the pipe fittings, resulting in the phenomenon of weld crack.

The finished pipe fittings are polished inside and outside by a magnetic polishing machine, so the pipe fittings' inner and outer walls can achieve a smooth effect, which effectively reduces the roughness coefficient of the pipe and enhances the corrosion resistance of the pipe.

Smooth inner wall

Argon arc welding

Corrosion resistance



Before welding



After welding

Product Name	Nominal dimension DN	Size (mm)	Connection mode
Joint 	DN125	Φ133	Socket welding
	DN150	Φ159	Socket welding
	DN200	Φ219	Socket welding
Reducing joint 	DN150x125	Φ159xΦ133	Socket welding
	DN200x125	Φ219xΦ133	Socket welding
	DN200x150	Φ219xΦ159	Socket welding
	DN250x150	Φ273xΦ159	Socket welding
	DN250x200	Φ273xΦ219	Socket welding
	DN300x150	Φ325xΦ159	Socket welding
	DN300x200	Φ325xΦ219	Socket welding
	DN300x250	Φ325xΦ273	Socket welding
Tee 	DN125	Φ133	Socket welding
	DN150	Φ159	Socket welding
	DN200	Φ219	Socket welding
	DN250	Φ273	Socket welding
	DN300	Φ325	Socket welding
Reducing tee 	DN150x125	Φ159xΦ133	Socket welding
	DN200x125	Φ219xΦ133	Socket welding
	DN200x150	Φ219xΦ159	Socket welding
	DN250x200	Φ273xΦ219	Socket welding
	DN300x250	Φ325xΦ273	Socket welding
45° elbow (A) 	DN125	Φ133	Socket welding
	DN150	Φ159	Socket welding
	DN200	Φ219	Socket welding
	DN250	Φ273	Socket welding
	DN300	Φ325	Socket welding
Reducing joint 	DN125×DN65	Φ133×Φ76.1	Socket welding+ Annular pressure
	DN125×DN80	Φ133×Φ88.9	Socket welding+ Annular pressure
	DN125×DN100	Φ133×Φ101.6	Socket welding+ Annular pressure
	DN150×DN65	Φ159×Φ76.1	Socket welding+ Annular pressure
	DN150×DN80	Φ159×Φ88.9	Socket welding+ Annular pressure
	DN150×DN100	Φ159×Φ101.6	Socket welding+ Annular pressure
	DN200×DN65	Φ219×Φ76.1	Socket welding+ Annular pressure

Note: The products adopting the connection mode of "socket welding + ring pressing" are customized.

Butt Welding Fittings

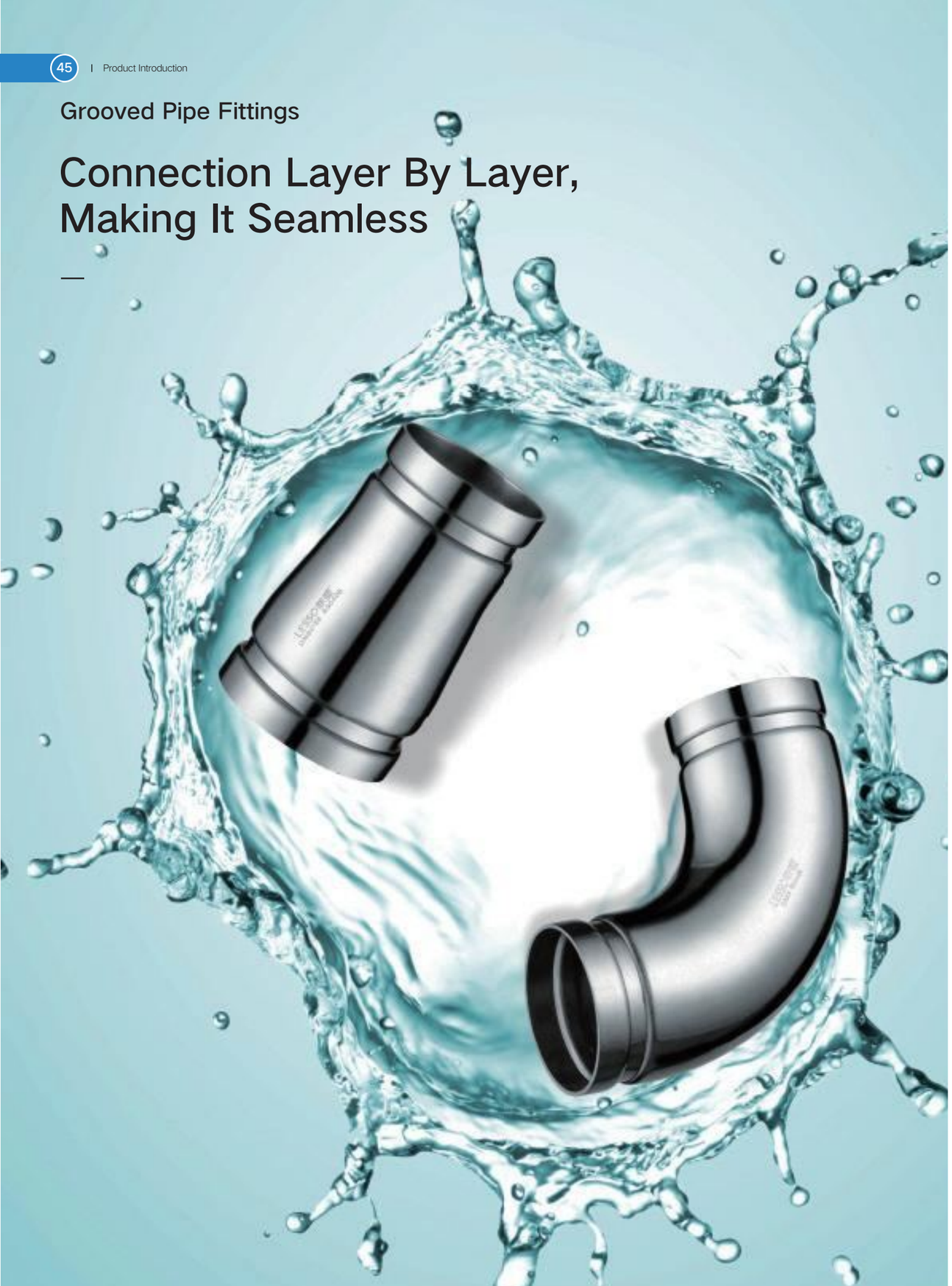
Double Arc Welding With Wide Application



Product Name	Nominal dimension DN	Size (mm)	Connection mode
Tee 	DN100	Φ108	Butt welding
	DN200	Φ219	Butt welding
	DN250	Φ273	Butt welding
	DN300	Φ325	Butt welding
	DN400	Φ426	Butt welding
	DN500	Φ530	Butt welding
	DN600	Φ630	Butt welding
	DN700	Φ720	Butt welding
90° elbow (A) 	DN100	Φ108	Butt welding
	DN150	Φ159	Butt welding
	DN200	Φ219	Butt welding
	DN250	Φ273	Butt welding
	DN300	Φ325	Butt welding
	DN400	Φ426	Butt welding
	DN500	Φ530	Butt welding
	DN600	Φ630	Butt welding
	DN700	Φ720	Butt welding
Reducing tee 	DN150×100	Φ159×Φ108	Butt welding
	DN200×100	Φ219×Φ108	Butt welding
	DN200×150	Φ219×Φ159	Butt welding
	DN300×100	Φ325×Φ108	Butt welding
	DN300×150	Φ325×Φ159	Butt welding
	DN300×200	Φ325×Φ219	Butt welding
	DN400×150	Φ426×Φ159	Butt welding
	DN400×300	Φ426×Φ325	Butt welding
	DN500×300	Φ530×Φ325	Butt welding
	DN600×300	Φ630×Φ325	Butt welding
	DN600×400	Φ630×Φ426	Butt welding

Grooved Pipe Fittings

Connection Layer By Layer, Making It Seamless



Product Name	Nominal dimension DN	Size (mm)	Connection mode
Tee 	* DN65	Φ76.1	Groove
	* DN80	Φ88.9	Groove
	* DN100	Φ101.6	Groove
	DN125	Φ133	Groove
	DN150	Φ159	Groove
	DN200	Φ219	Groove
	DN250	Φ273	Groove
	DN300	Φ325	Groove
Reducing tee 	* DN80×65	Φ88.9×Φ76.1	Groove
	* DN100×65	Φ101.6×Φ76.1	Groove
	* DN100×80	Φ101.6×Φ88.9	Groove
	* DN125×65	Φ133×Φ76.1	Groove
	* DN125×80	Φ133×Φ88.9	Groove
	* DN125×100	Φ133×Φ101.6	Groove
	* DN150×65	Φ159×Φ76.1	Groove
	* DN150×80	Φ159×Φ88.9	Groove
	* DN150×100	Φ159×Φ101.6	Groove
	DN150×125	Φ159×Φ133	Groove
	* DN200×65	Φ219×Φ76.1	Groove
	* DN200×80	Φ219×Φ88.9	Groove
	* DN200×100	Φ219×Φ101.6	Groove
	DN200×125	Φ219×Φ133	Groove
	DN200×150	Φ219×Φ159	Groove
	* DN250×65	Φ273×Φ76.1	Groove
	* DN250×80	Φ273×Φ88.9	Groove
	* DN250×100	Φ273×Φ101.6	Groove
	DN250×125	Φ273×Φ133	Groove
	DN250×150	Φ273×Φ159	Groove
	DN250×200	Φ273×Φ219	Groove
	* DN300×100	Φ325×Φ101.6	Groove
	DN300×125	Φ325×Φ133	Groove
	DN300×150	Φ325×Φ159	Groove

Note: The sizes with " * " are customized.

Product Name	Nominal dimension DN	Size (mm)	Connection mode
Reducing tee	DN300×200	Φ325×Φ219	Groove
	DN300×250	Φ325×Φ273	Groove
90° elbow (A) 	* DN65	Φ76.1	Groove
	* DN80	Φ88.9	Groove
	* DN100	Φ101.6	Groove
	DN125	Φ133	Groove
	DN150	Φ159	Groove
	DN200	Φ219	Groove
	DN250	Φ273	Groove
	DN300	Φ325	Groove
Stainless steel flange change adapter PN1.6MPa HG/T 20592-2009 	* DN65	Φ76.1(Eight holes)	Groove
	* DN80	Φ88.9(Eight holes)	Groove
	* DN100	Φ101.6(Eight holes)	Groove
	DN125	Φ133(Eight holes)	Groove
	DN150	Φ159(Eight holes)	Groove
	DN200	Φ219(twelve holes)	Groove
	DN250	Φ273(twelve holes)	Groove
	DN300	Φ325(twelve holes)	Groove
Clamping Band 	* DN65	Φ76.1	Groove
	* DN80	Φ88.9	Groove
	* DN100	Φ101.6	Groove
	DN125	Φ133	Groove
	DN150	Φ159	Groove
	DN200	Φ219	Groove
	DN250	Φ273	Groove
	DN300	Φ325	Groove

Note: The sizes with " * " are customized.

Product Name	Nominal dimension DN	Size (mm)	Connection mode
Reducing joint 	* DN80×65	Φ88.9×Φ76.1	Groove
	* DN100×65	Φ101.6×Φ76.1	Groove
	* DN100×80	Φ101.6×Φ88.9	Groove
	* DN125×65	Φ133×Φ76.1	Groove
	* DN125×80	Φ133×Φ88.9	Groove
	* DN125×100	Φ133×Φ101.6	Groove
	* DN150×65	Φ159×Φ76.1	Groove
	* DN150×80	Φ159×Φ88.9	Groove
	* DN150×100	Φ159×Φ101.6	Groove
	DN150×125	Φ159×Φ133	Groove
	* DN200×65	Φ219×Φ76.1	Groove
	* DN200×80	Φ219×Φ88.9	Groove
	* DN200×100	Φ219×Φ101.6	Groove
	DN200×125	Φ219×Φ133	Groove
	DN200×150	Φ219×Φ159	Groove
	* DN250×65	Φ273×Φ76.1	Groove
	* DN250×80	Φ273×Φ88.9	Groove
	* DN250×100	Φ273×Φ101.6	Groove
	DN250×125	Φ273×Φ133	Groove
	DN250×150	Φ273×Φ159	Groove
	DN250×200	Φ273×Φ219	Groove
	* DN300×100	Φ325×Φ101.6	Groove
	DN300×125	Φ325×Φ133	Groove
	DN300×150	Φ325×Φ159	Groove
	DN300×200	Φ325×Φ219	Groove
	DN300×250	Φ325×Φ273	Groove

Note: The sizes with "*" are customized; The products adopting the connection mode of "Groove + Annular pressure" or "Groove + Clamp pressing" are customized.

Product Name	Nominal dimension DN	Size (mm)	Connection mode
Reducing joint 	DN125×DN65	Φ133×Φ76.1	Groove+ Annular pressure
	DN125×DN80	Φ133×Φ88.9	Groove+ Annular pressure
	DN125×DN100	Φ133×Φ101.6	Groove+ Annular pressure
	DN150×DN50	Φ159×Φ50.8	Groove+ Annular pressure
	DN150×DN60	Φ159×Φ63.5	Groove+ Annular pressure
	DN150×DN65	Φ159×Φ76.1	Groove+ Annular pressure
	DN150×DN80	Φ159×Φ88.9	Groove+ Annular pressure
	DN150×DN100	Φ159×Φ101.6	Groove+ Annular pressure
	DN200×DN60	Φ219×Φ63.5	Groove+ Annular pressure
	DN200×DN65	Φ219×Φ76.1	Groove+ Annular pressure
	DN200×DN80	Φ219×Φ88.9	Groove+ Annular pressure
	DN200×DN100	Φ219×Φ101.6	Groove+ Annular pressure
	DN250×DN60	Φ273×Φ63.5	Groove+ Annular pressure
	DN250×DN65	Φ273×Φ76.1	Groove+ Annular pressure
	DN250×DN80	Φ273×Φ88.9	Groove+ Annular pressure
	DN250×DN100	Φ273×Φ101.6	Groove+ Annular pressure
	DN300×DN100	Φ325×Φ101.6	Groove+ Annular pressure
Reducing tee 	DN125×DN65	Φ133×Φ76.1	Groove+ Annular pressure
	DN125×DN80	Φ133×Φ88.9	Groove+ Annular pressure
	DN125×DN100	Φ133×Φ101.6	Groove+ Annular pressure
	DN150×DN50	Φ159×Φ50.8	Groove+ Annular pressure
	DN150×DN60	Φ159×Φ63.5	Groove+ Annular pressure
	DN150×DN65	Φ159×Φ76.1	Groove+ Annular pressure
	DN150×DN80	Φ159×Φ88.9	Groove+ Annular pressure
	DN150×DN100	Φ159×Φ101.6	Groove+ Annular pressure
	DN200×DN60	Φ219×Φ63.5	Groove+ Annular pressure
	DN200×DN65	Φ219×Φ76.1	Groove+ Annular pressure
	DN200×DN80	Φ219×Φ88.9	Groove+ Annular pressure
	DN200×DN100	Φ219×Φ101.6	Groove+ Annular pressure
	DN250×DN60	Φ273×Φ63.5	Groove+ Annular pressure
	DN250×DN65	Φ273×Φ76.1	Groove+ Annular pressure
	DN250×DN80	Φ273×Φ88.9	Groove+ Annular pressure

Note: The products adopting the connection mode of "Groove + Annular pressure" or "Groove + Clamp pressing" are customized.

Product Name	Nominal dimension DN	Size (mm)	Connection mode
Reducing tee	DN250×DN100	Φ273×Φ101.6	Groove+ Annular pressure
	DN300×DN100	Φ325×Φ101.6	Groove+ Annular pressure
Reducing joint 	DN125×S Ⅰ-DN65	Φ133×Φ76.1	Groove+ Clamp pressing
	DN125×S Ⅰ-DN80	Φ133×Φ88.9	Groove+ Clamp pressing
	DN125×S Ⅰ-DN100	Φ133×Φ101.6	Groove+ Clamp pressing
	DN150×S Ⅰ-DN65	Φ159×Φ76.1	Groove+ Clamp pressing
	DN150×S Ⅰ-DN80	Φ159×Φ88.9	Groove+ Clamp pressing
	DN150×S Ⅰ-DN100	Φ159×Φ101.8	Groove+ Clamp pressing
	DN200×S Ⅰ-DN65	Φ219×Φ76.1	Groove+ Clamp pressing
	DN200×S Ⅰ-DN80	Φ219×Φ88.9	Groove+ Clamp pressing
	DN200×S Ⅰ-DN100	Φ219×Φ101.6	Groove+ Clamp pressing
	DN250×S Ⅰ-DN65	Φ273×Φ76.1	Groove+ Clamp pressing
	DN250×S Ⅰ-DN80	Φ273×Φ88.9	Groove+ Clamp pressing
	DN250×S Ⅰ-DN100	Φ273×Φ101.6	Groove+ Clamp pressing
	DN300×S Ⅰ-DN100	Φ325×Φ101.6	Groove+ Clamp pressing
Reducing tee 	DN125×S Ⅰ-DN65	Φ133×Φ76.1	Groove+ Clamp pressing
	DN125×S Ⅰ-DN80	Φ133×Φ88.9	Groove+ Clamp pressing
	DN125×S Ⅰ-DN100	Φ133×Φ101.6	Groove+ Clamp pressing
	DN150×S Ⅰ-DN65	Φ159×Φ76.1	Groove+ Clamp pressing
	DN150×S Ⅰ-DN80	Φ159×Φ88.9	Groove+ Clamp pressing
	DN150×S Ⅰ-DN100	Φ159×Φ101.6	Groove+ Clamp pressing
	DN200×S Ⅰ-DN65	Φ219×Φ76.1	Groove+ Clamp pressing
	DN200×S Ⅰ-DN80	Φ219×Φ88.9	Groove+ Clamp pressing
	DN200×S Ⅰ-DN100	Φ219×Φ101.6	Groove+ Clamp pressing
	DN250×S Ⅰ-DN65	Φ273×Φ76.1	Groove+ Clamp pressing
	DN250×S Ⅰ-DN80	Φ273×Φ88.9	Groove+ Clamp pressing
	DN250×S Ⅰ-DN100	Φ273×Φ101.6	Groove+ Clamp pressing
	DN300×S Ⅰ-DN100	Φ325×Φ101.6	Groove+ Clamp pressing

Note: The products adopting the connection mode of "Groove + Annular pressure" or "Groove + Clamp pressing" are customized.

Flange and Accessories

Integrated Disassembly and Assembly, Making It More Efficient

Product Name	Nominal dimension DN	Size (mm)
Clamp	DN15×2	Φ16
	DN15×3	Φ16
	DN15×4	Φ16
	DN15×5	Φ16
	DN15×6	Φ16
	DN15×7	Φ16
	DN15×8	Φ16
	DN20×2	Φ20
	DN20×3	Φ20
	DN20×4	Φ20
	DN20×5	Φ20
	DN20×6	Φ20
	DN20×7	Φ20
	DN20×8	Φ20
	DN25×2	Φ25.4
	DN25×3	Φ25.4
	DN25×4	Φ25.4
	DN25×5	Φ25.4
	DN25×6	Φ25.4
	DN25×7	Φ25.4
	DN25×8	Φ25.4
Corrugated pipe (Flange compensator) (GB/T 12777-2019) 	DN32	(Four holes)
	DN40	(Four holes)
	DN50	(Four holes)
	DN65	(Eight holes)
	DN80	(Eight holes)
	DN100	(Eight holes)
	DN125	(Eight holes)
	DN150	(Eight holes)
	DN200	(twelve holes)

Product Name	Nominal dimension DN	Size (mm)
Double female thread elbow 	DN15×1/2 "	Φ16×1/2 "
	DN20×1/2 "	Φ20×1/2 "
	DN20×3/4 "	Φ20×3/4 "
	DN25×1/2 "	Φ25.4×1/2 "
	DN25×3/4 "	Φ25.4×3/4 "
Double male thread joint 	DN15	1/2 "
	DN20	3/4 "
	DN25	1 "
	DN32	1-1/4 "
	DN40	1-1/2 "
	DN50	2 "
	DN65	2-1/2 "
	DN80	3 "
Stainless steel flange PN1.6MPa HG/T 20592-2009 	DN32	Φ32(Four holes)
	DN40	Φ40(Four holes)
	DN50	Φ50.8(Four holes)
	DN65（Φ63.5）	Φ63.5(Eight holes)
	DN65	Φ76.1(Eight holes)
	DN80（Φ76.1）	Φ76.1(Eight holes)
	DN80	Φ88.9(Eight holes)
	DN100	Φ101.6(Eight holes)
	DN125	Φ133(Eight holes)
	DN150	Φ159(Eight holes)
	DN200	Φ219(twelve holes)
	DN250	Φ273(twelve holes)
	DN300	Φ325(twelve holes)

Product Name	Nominal dimension DN	Size (mm)
Straight pipe bending pipe 	DN15	Φ16
	DN20	Φ20
	DN25	Φ25.4
Pipe clamp HJ type 	DN15	Φ16
	DN20	Φ20
	DN25	Φ25.4
	DN32	Φ32
	DN40	Φ40
	DN50	Φ50.8
Pipe clamp PT type 	DN15	Φ16
	DN20	Φ20
	DN25	Φ25.4
	DN32	Φ32
	DN40	Φ40
	DN50	Φ50.8
Adjustable pipe clamp 	DN15	Φ16
	DN20	Φ20
	DN25	Φ25.4
	DN32	Φ32
	DN40	Φ40
	DN50	Φ50.8
	DN60	Φ63.5
	DN65	Φ76.1
	DN80	Φ88.9
	DN100	Φ101.6
Pipe clamp self-choking 	DN15	Φ16
	DN20	Φ20
	DN25	Φ25.4

Product Name	Nominal dimension DN	Size (mm)
Manifold 	DN25×1 " ×2×1/2 "	Φ25.4×1 " ×2×1/2 "
	DN25×1 " ×3×1/2 "	Φ25.4×1 " ×3×1/2 "
	DN25×1 " ×2×3/4 "	Φ25.4×1 " ×2×3/4 "
	DN25×1 " ×3×3/4 "	Φ25.4×1 " ×3×3/4 "
	DN32×1-1/4 " ×2×1/2 "	Φ32×1-1/4 " ×2×1/2 "
	DN32×1-1/4 " ×3×1/2 "	Φ32×1-1/4 " ×3×1/2 "
	DN32×1-1/4 " ×4×1/2 "	Φ32×1-1/4 " ×4×1/2 "
	DN32×1-1/4 " ×5×1/2 "	Φ32×1-1/4 " ×5×1/2 "
	DN32×1-1/4 " ×2×3/4 "	Φ32×1-1/4 " ×2×3/4 "
	DN32×1-1/4 " ×3×3/4 "	Φ32×1-1/4 " ×3×3/4 "
	DN32×1-1/4 " ×4×3/4 "	Φ32×1-1/4 " ×4×3/4 "
	DN32×1-1/4 " ×5×3/4 "	Φ32×1-1/4 " ×5×3/4 "
	DN40×1-1/2 " ×2×1/2 "	Φ40×1-1/2 " ×2×1/2 "
	DN40×1-1/2 " ×3×1/2 "	Φ40×1-1/2 " ×3×1/2 "
	DN40×1-1/2 " ×4×1/2 "	Φ40×1-1/2 " ×4×1/2 "
	DN40×1-1/2 " ×5×1/2 "	Φ40×1-1/2 " ×5×1/2 "
	DN40×1-1/2 " ×2×3/4 "	Φ40×1-1/2 " ×2×3/4 "
	DN40×1-1/2 " ×3×3/4 "	Φ40×1-1/2 " ×3×3/4 "
	DN40×1-1/2 " ×4×3/4 "	Φ40×1-1/2 " ×4×3/4 "
	DN40×1-1/2 " ×5×3/4 "	Φ40×1-1/2 " ×5×3/4 "
	DN50×2 " ×2×1/2 "	Φ50.8×2 " ×2×1/2 "
	DN50×2 " ×3×1/2 "	Φ50.8×2 " ×3×1/2 "
	DN50×2 " ×4×1/2 "	Φ50.8×2 " ×4×1/2 "
	DN50×2 " ×5×1/2 "	Φ50.8×2 " ×5×1/2 "
	DN50×2 " ×2×3/4 "	Φ50.8×2 " ×2×3/4 "
	DN50×2 " ×3×3/4 "	Φ50.8×2 " ×3×3/4 "
	DN50×2 " ×4×3/4 "	Φ50.8×2 " ×4×3/4 "
	DN50×2 " ×5×3/4 "	Φ50.8×2 " ×5×3/4 "
	DN50×2 " ×2×1 "	Φ50.8×2 " ×2×1 "
	DN50×2 " ×3×1 "	Φ50.8×2 " ×3×1 "
	DN50×2 " ×4×1 "	Φ50.8×2 " ×4×1 "
	DN50×2 " ×5×1 "	Φ50.8×2 " ×5×1 "

Technical Description of Ring Pressing

Correct installation example

I A I

Place the pipe in the clamp mouth and position the pipe fitting end on the step of the module seal section.

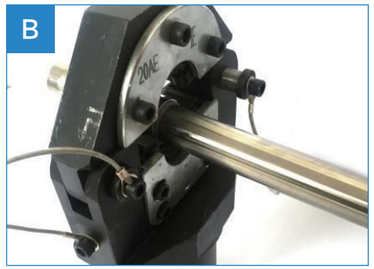
- The pipe's direction must be close to the step surface of the module. Do not operate in the opposite direction.
- Before the module bites the pipe fitting, the pipe and pipe fitting should be vertically supported against the module step surface.
- Check and confirm that fittings, pipes and seal rings are properly installed.



I B I

After closing the clamp mouth, insert the two cylindrical pins properly before applying pressure.

- Apply pressure slowly and repeatedly.

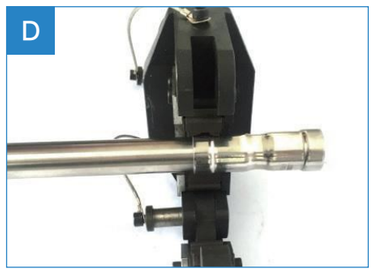


I C I

Check the pressure gauge and stabilize the pressure for more than 3s after reaching the rated pressure.

- For crimping of DN15-DN50, stabilize the pressure for more than 3s to release the pressure and end the crimping process.
- The crimping of DN60-DN100 requires crimping three times to complete.
- For specific operations, please refer to the technical guidance documents for construction provided by our company.

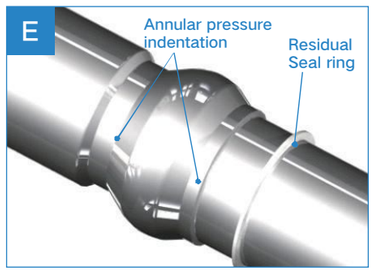
Note: The crimping process mainly depends on the degree of mold closure. After the mold is closed, it can be considered as the crimping is completed.



I D I

Remove the ring pressing pipe after pressure relief.

- Open the head of the pliers only after the pressure is completely relieved.



I E I

After the installation is complete, check the crimping quality.

Quality check:

- The 360 ° indentation of the crimping part should be evenly concave and convex;
- The joint between the end face of the pipe fitting and the pipe should be tight without gap;
- The residual seal ring exposed by the pressing joint between the end face of the pipe fitting and the pipe can be easily removed.

Technical Description of Clamp Pressing

Correct installation example

Pipe cutting

a. The pipe should be cut off by a special pipe cutting machine or pipe cutter according to the construction size.
b. Burrs on the cutting surface should be removed with a stainless steel pipe file or a special burr remover.
c. The cutting surface of the pipe should be perpendicular to the center line of the pipe, and the end of the pipe and the outer surface should be smooth, clean and free of oil.

Before connection

a. Check whether the O-Seal ring is indeed installed in the correct position. Do not use lubricating oil during installation.
b. The pipe should be vertically ground hooked into the clamp pressing fitting. The pipe should not be tilted when inserted, so as not to cut or fall off the O-Seal ring and cause water leakage.
c. Before connection, there should be no sand or debris at the end of the pipe, and the end of the pipe fitting should be kept clean.
d. If the pipe mouth is oval, it should be corrected and should not be forcibly inserted

Clamp pressing connection

a. Read the instructions carefully before using the clamp pressing tool.
b. The clamp pressing tool should not have sand particles and should be cleaned before crimping.
c. The groove of the clamp pressing tool jaw should be tight with the convex part of the pipe fitting, and the tool jaw should be vertical with the shaft of the pipe after operation. The groove part should bite the pipe fitting until a slight vibration is generated, and the clamp-pressing connection process can be ended. After the clamp-pressing connection, use a hexagonal gauge to check whether the clamp-pressing process is in good condition.
d. If the clamp pressing connection is not proper, it should be repair with tools. Where the clamp pressing is improper, the clamp pressing can be performed again with normal tools and confirmed with a hexagonal gauge.
e. When connected with internal and external thread adapters, the thread should be tightened before clamp pressing.

Test

a. After clamp pressing, use a special hexagonal gauge to test whether the clamp pressing connection is in good condition.
b. After the installation of the whole pipe, the pressure test should be carried out after the pipe flushing is qualified. The test pressure should be 1.5 times of the design pressure and not less than 0.6MPa.

① Pipe cutting



② Deburring



③ Drawing lines and positioning



④ Clamp pressing



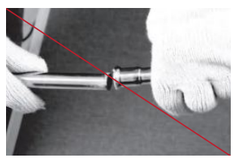
⑤ Inspection



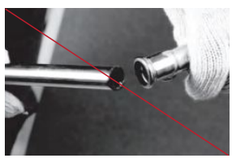
⓪ Tools



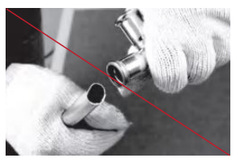
Incorrect installation example



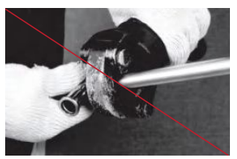
The pipe end is not clean



The pipe mouth has burrs



The pipe mouth is oval



The clamp pressing tool is not clean

Technical Description of Welding

Product size

Pipe	DN125~DN300	**Pipe fitting**	Socket argon arc welding DN125~DN300, butt welding DN125~DN300

Technical parameters

Material	See the table below
Size	DN125~DN300
Operating pressure	⩽ 1.6MPa
Connection mode	Socket argon arc welding connection, butt argon arc welding connection, and flange connection;

- The steel pipe made of S30408 has a tensile strength of not less than 520MPa, and the steel pipe made of S31603 has a tensile strength of not less than 480MPa. The elongation at the break of the steel pipe in the heat treatment state is not less than 35%, and the elongation at the break in the non-heat treatment force state is not less than 25%.
- The eddy current flaw detection test of the steel pipe conforms to the acceptance level A of GB/T 7735.
- The air leakage test pressure of the pipe fittings is 1.05MPa, and no leakage occurs under this pressure.
- After the pipe and pipe fittings are connected, there is no corrosion after 240 hours of acid salt spray test.
- A water pressure test should be carried out after the pipe and pipe fittings are connected to the piping system. The test pressure should be 1.5 times the working pressure of the piping system and should not be less than 0.6MPa: After the piping system is filled with water, it is appropriate to use a manual pump to slowly increase the pressure for no less than 10 minutes, stop the pressure after rising to the specified test pressure, observe for 10 minutes, and the pressure reduction should not exceed 0.02MPa, and then reduce the test pressure to the working pressure, and carry out the appearance inspection of the pipe. If there is no leakage, it is qualified.

Main technical features

- The special extension design is adopted in the design of the socket, which effectively avoids the stress corrosion caused by the coefficient of thermal expansion of the pipe.
- The inner wall is smooth, without scratches or tensile marks. Special materials are used in mold design to avoid surface scratching, pulling, and other undesirable phenomena, effectively protect the surface structure of stainless steel, and eliminate impurities and dirt in water attaching to the inner wall of the pipe.
- The socket welding pipe has a high bearing capacity and can withstand pressure of up to 1.6 MPa.
- The product uses magnetic polishing treatment inside and outside. Hence, the passivating film on the stainless steel surface is more delicate and dense, and the fine dirt is difficult to attach to the pipe surface. The inner wall of the pipe is smooth and the friction is small, which further improves the flow rate of the pipe and saves energy consumption.

Material grade and composition

Material grade	Main material composition (%)							
	C	Si	Mn	P	S	Ni	Cr	Mo
06Cr19Ni10（S30408）	⩽0.08	⩽0.75	⩽2.00	⩽0.04	⩽0.03	8.00~11.00	18.00~20.00	
022Cr19Ni10（S30403）	⩽0.03	⩽0.75	⩽2.00	⩽0.04	⩽0.03	8.00~12.00	18.00~20.00	
06Cr17Ni12Mo2（S31608）	⩽0.08	⩽0.75	⩽2.00	⩽0.04	⩽0.03	10.00~14.00	16.00~18.00	2.00~3.00
022Cr17Ni12Mo2（S31603）	⩽0.03	⩽0.75	⩽2.00	⩽0.04	⩽0.03	10.00~14.00	16.00~18.00	2.00~3.00