LESSO

PP COMPRESSION FITTINGS



LESSO

LESSO GROUP HOLDINGS LIMITED

Lesso Group (Stock Code: 02128.HK)

GUANGDONG LIANSU TECHNOLOGY INDUSTRIAL CO.,LTD.

Production Base:

Liansu Industrial Estate, Longjiang Town, Shunde District, Foshan City, Guangdong Province 528318, China

Sales Tel: (86) 757 23379211 Fax : (86) 757 23378980 E-mail: oversea@lesso.com

Asia-1 : (86) 757-29223015 Africa-1 : (86) 757-29226356 Middle East : (86) 757-29226355

Asia-2 : (86) 757-29220500 Africa-2 : (86) 757-23379211 South America : (86) 757-29220501

www.lesso.com

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2024.12

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NON-TOXIC

CORROSION RESISTANCE

LOW INSTALLATION COSTS

COMPANY PROFILE

LESSO GROUP

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.

True to its idea of "Envisioning the Better, Building the Future", LESSO remains committed to creating a better living environment, and advocating ideal cities featuring greenness, livability, and efficiency. With concerted efforts from various sectors, LESSO will fully play its role in sustaining healthy and beautiful space so that global residents could enjoy a comfortable life.

30+
PRODUCTION BASES

1,000+
SCIENTIFIC RESEARCHERS

3,000+
PATENTS

10,000+
VARIETIES OF PRODUCTS


LESSO Research Institute & Testing Center


LESSO College


Training Apartment

LESSO

EASY INSTALLATION AND WIDE APPLICATION

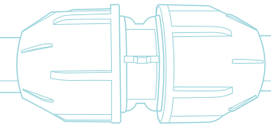
PP compression fittings

The structural plug-in design enables quick connection of pipes without hot melting or glue bonding. It is suitable for rural water supply systems, agricultural water transmission and irrigation, planting facility, animal husbandry and other fields.

- Environmentally friendly materials
- Sealing design
- High compressive strength
- Quick assembly and disassembly



CONTENTS



PRODUCT OVERVIEW

ADVANTAGES - - - - - - - - - - - - - - - - - - P1

APPLICATIONS - - - - - - - - - - - - - - - - - - P2

INTELLIGENT PRODUCTION - - - - - - - - - - - - - P2

FITTINGS - P3-5

INSTALLATION STEPS - - - - - - - - - - - - P6

Product Introduction

PP quick connection fittings are designed for the quick connection of PP, PE and other pipelines, easy to install and easy to maintain. With their radial external clamping structure, there is no need for professional hot melt or glue bonding, saving time and effort. The removable structure facilitates the maintenance of pipelines, and improves the reliability and safety of the connection. Using new eco-friendly PP material, the quick connection fittings offer high temperature resistance, corrosion resistance, high pressure and other advantages, and can maintain stable performance in a variety of harsh environments. They are widely used in the rapid connection of water and irrigation pipelines for high standard farmlands, facilities greenhouses, mountain forests, and other applications.

Product Dimensions: 20-110mm
Pressure Rating: 20-63mm at 20℃, compliant with the requirements of PN16. 75-110mm, compliant with the requirements of PN10.
Executive Standard: QLS 118-2024 Polyethylene (PE) Irrigation Pipe Connection Fittings
Colors: Blue, gray, black (other colors available upon request).

Product Features

Outstanding Materials — Made of high quality polypropylene, our PP quick connection fittings are non-toxic and odorless, offering strong corrosion resistance, able to work reliably in a variety of environments, providing a long service life and ensuring your health and safety.

Efficiency and Convenience — Featuring a unique fast connection design, the quick connection fittings can ensure instant connection and disconnection with a plug and a twist, greatly saving on installation and disassembly time, significantly improving construction efficiency; they are easy to install and available in a wide variety of configurations.

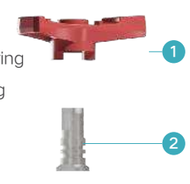
Strong Sealing Performance — Internal precision machining and high-performance sealing rings ensure zero leakage after connection, prevent media overflow, and guarantee the stability and safety of system operations.

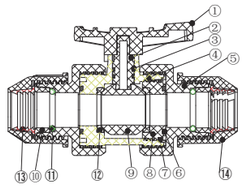
Wide Range of Applications — Suitable for water, gas, oil and other fluid media, these quick connection fittings are widely used in high-standard farmland, facilities greenhouses, mountain irrigation pipelines, industrial production, laboratory equipment, home decoration and other fields, and are able to meet the needs of a wide variety of different scenarios.

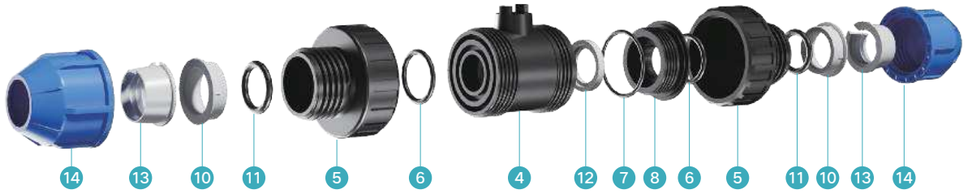
Compact and Durable — These PP quick connecting fittings are lightweight, with a compact structure, high compressive strength and no deformation after long-term use, making them the ideal choice for your pursuit of efficiency, economic suitability and practicality.

Product structure

1 Nut
2 Pipe strap
3 True union sealing washer
4 O-shaped sealing ring (φ31×4.1)
5 Compression ring
6 True union ball core
7 True union lock cover
8 True union lock cover sealing rubber ring
9 True union lock cover thick rubber ring
10 True union threaded connector
11 True union body
12 True union ball core connecting rod rubber ring
13 True union ball core connecting rod
14 True union ball valve handle







APPLICATIONS

They are also used in agricultural water conveyance irrigation projects, fishery and animal husbandry drainage and irrigation projects, low pressure pipeline water delivery and irrigation, sprinkler irrigation, microwave and drip irrigation projects, greening projects, and rural water delivery projects.

- **Application scenarios**



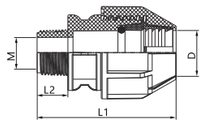


INTELLIGENT PRODUCTION



MALE ADAPTOR

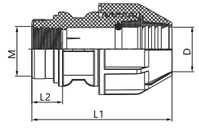




Size (mm)	L1	L2	D	M
20×1/2"	69	16	20	1/2"
25×3/4"	81	18	25	3/4"
32×1"	92	20	32	1"
40×1-1/4"	105	25	40	1-1/4"
50×1-1/2"	129	27	50	1-1/2"
63×2"	152	30	63	2"

FEMALE ADAPTOR

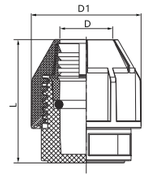




Size (mm)	L1	L2	D	M
20×1/2"	69	16	20	1/2"
25×3/4"	83	18	25	3/4"
32×1"	97	20	32	1"
40×1-1/4"	112	25	40	1-1/4"
50×1-1/2"	130	27	50	1-1/2"
63×2"	151	30	63	2"

PLUG

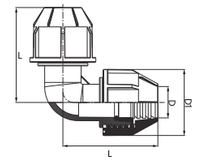




Size (mm)	L	D	D1
20	54	20	46
25	60	25	54
32	69	32	64
40	79	40	78
50	96	50	95
63	110	63	113
75	145	75	127
90	155	90	153
110	183	110	182

ELBOW

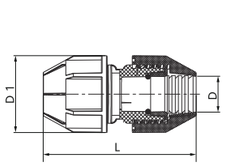




Size (mm)	L	D	D1
20	66	20	46
25	74	25	54
32	90	32	64
40	108	40	78
50	127	50	95
63	153	63	113
75	165	75	127
90	183	90	153
110	220	110	182

COUPLING

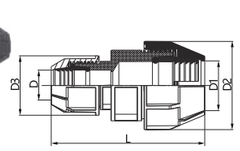




Size (mm)	L	D	D1
20	91	20	46
25	107	25	54
32	128	32	64
40	151	40	78
50	184	50	95
63	206	63	113
75	258	75	127
90	268	90	153
110	352	110	182

REDUCING SOCKET

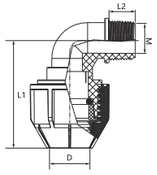




Size (mm)	L	D1xD	D2	D3
25×20	105	25×20	54	46
32×20	114	32×20	64	46
32×25	121	32×25	64	54
40×25	134	40×25	78	54
40×32	143	40×32	78	64
50×25	153	50×25	95	54
50×32	162	50×32	95	64
50×40	171	50×40	95	78
63×32	177	63×32	113	64
63×40	186	63×40	113	78
63×50	199	63×50	113	95
75×50	228	75×50	127	95
75×63	236	75×63	127	113
90×63	245	90×63	153	113
90×75	266	90×75	153	127
110×75	314	110×75	182	127
110×90	314	110×90	182	153

MALE ELBOW

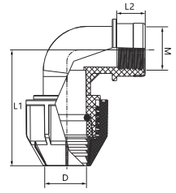




Size (mm)	L1	L2	D	M
20×1/2"	64	16	20	1/2"
25×3/4"	74	18	25	3/4"
32×1"	89	20	32	1"
40×1-1/4"	108	25	40	1-1/4"
50×1-1/2"	126	27	50	1-1/2"
63×2"	146	30	63	2"

FEMALE ELBOW

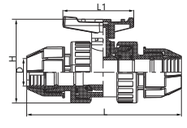




Size (mm)	L1	L2	D	M
20×1/2"	66	16	20	1/2"
25×3/4"	77	18	25	3/4"
32×1"	93	20	32	1"
40×1-1/4"	116	25	40	1-1/4"
50×1-1/2"	130	27	50	1-1/2"
63×2"	152	30	63	2"

TRUE UNION VALVE





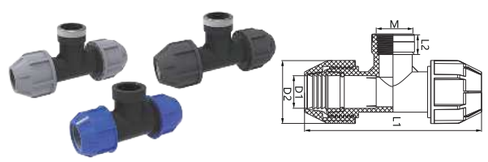
Size (mm)	L	L1	D	H
20	148.6	65	21.5	73.5
25	165.6	87	26	93.5
32	176.5	87	33	93.5
40	236.6	108.5	41.8	128
50	266.6	108.5	53	128
63	304.5	132.5	64.5	154.5

TEE



Size (mm)	L	D
20	132	20
25	153	25
32	179	32
40	205	40
50	237	50
63	279	63
75	343	75
90	378	90
110	466	110

FEMALE TEE



Size (mm)	L1	L2	D1	D2	M
20×1/2"	134.7	16	20	46	1/2"
25×3/4"	153.6	18	25	54.2	3/4"
32×1"	179.2	20	32	64	1"
40×1-1/4"	205.6	21.6	40	78	1-1/4"
50×1-1/2"	237.6	24.5	50	95	1-1/2"
63×2"	274	27.5	63	113	2"

REDUCING TEE

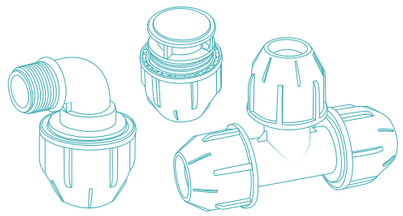


Size (mm)	L	D1	D2
25×20×25	145.7	25	20
32×20×32	161.3	32	20
32×25×32	169.4	32	25
40×25×40	181.8	40	25
40×32×40	191.6	40	32
50×25×50	153.8	50	25
50×32×50	206.6	50	32
50×40×50	220.6	50	40
63×32×63	230	63	32
63×40×63	244	63	40
63×50×63	261	63	50
75×50×75	307	75	50
75×63×75	325	75	63
90×63×90	333.6	90	63
90×75×90	347.6	90	75
110×90×110	419.5	110	110

MALE TEE



Size (mm)	L1	L2	D1	D2	M
20×1/2"	134.7	16	20	46	1/2"
25×3/4"	153.8	16	25	54.2	3/4"
32×1"	179.2	19.5	32	64	1"
40×1-1/4"	205.6	28	40	78	1-1/4"
50×1-1/2"	237.6	29.5	50	95	1-1/2"
63×2"	279	35	63	113	2"



INSTALLATION STEPS



Step 1

Insert the nut, O-ring, blocking bush and split ring into the pipe



Step 2

Rotate the pipe together with the O-ring and insert it into the main body of the fitting



Step 3

Pull the blocking bush to the bottom end



Step 4

Pull the split ring to the bottom end





Step 5

Tighten the nut