

INFINITY STAINLESS

PIPE, FITTINGS & ACCESSORIES

316L press-fit stainless steel piping systems for hydraulic and pneumatic applications.



INFINITY STAINLESS PRODUCT BROCHURE

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INFINITY STAINLESS

|| Welcome to the Infinity Stainless Steel Range

Infinity Pipe Systems is proud to introduce our 316L stainless steel press-fit compressed air and fluid pipe and fittings - engineered for unmatched durability, reliability, and performance. Known for our premium aluminium systems, we've expanded our range to meet the demands of industries requiring robust, versatile solutions for compressed air and hydraulic applications.

Our new Infinity Stainless range offers:

- **Watermark Certification and Compliance with Australian Standards.**
 - AS 3688:2016 - Water supply and gas systems - Metallic fittings and end connectors
 - AS 5200.053:2008 - Plumbing and drainage products - Stainless steel pipes and tubes for pressure applications
- **A 20-year market-leading warranty.**
- **Maximum pressure ratings up to 40 bar** (with Novopress high-pressure tooling and collars). Standard pressures range from 16 to 40 bar across various sizes and configurations.
- **Green FKM O-rings as standard**, ensuring superior sealing and resistance to oils, fuels, chemicals, and temperature fluctuations.
- **Press Indicators** for leak-free confidence during installation.

Designed to meet the needs of a variety of industries, including compressed air systems, hydraulic applications, food and beverage production, healthcare and industrial environments. Our stainless steel range combines strength, hygiene, and corrosion resistance.

Already using our aluminium system? Seamlessly integrate stainless steel for targeted upgrades or safety compliance without overhauling your setup. From stainless steel droppers to complete systems, Infinity Pipe Systems ensures flexibility and functionality.

With over 20 years of industry expertise, we're here to provide innovative solutions for your most demanding projects.

|| 20-year Warranty

A 20-year market-leading Warranty on Infinity Stainless products guarantees that they will be free of substantial defects in materials and workmanship for a period of 20 years from the date of installation.

For further information, refer to our Warranty terms and conditions.





CERTIFICATE OF CONFORMITY

ApprovalMark International hereby grants:

Pneumatics Direct Australia Pty Ltd

12 Reggio Road
Kewdale, WA 6105
AUSTRALIA

WaterMark Certificate of Conformity – WMCS 2016

Evaluated to:

AS 3688:2016 – Water supply and gas systems – Metallic fittings and end connectors

AS 5200.053:2008 – Plumbing and drainage products – Stainless steel pipes and tubes for pressure applications

The WaterMark licensee shall comply with all the terms and conditions as stipulated by the governance of the operating rules of WaterMark and shall comply with standard requirement at all times including when standard is amended. The WaterMark license only covers the product which is identified in the product schedule.

This certificate is issued by a JAS-ANZ accredited certification body. The ABCB and JAS-ANZ do not in any way warrant, guarantee or represent that the product the subject of this Certificate conforms to the WaterMark Certification Scheme Rules, nor accepts any liability arising out of the use of the product. The ABCB disclaims to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages, and costs arising as a result of the use of the product(s) referred to in this certificate.

* This certificate may only be reproduced in its entirety.

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Current Certification: 28th November 2024

John PRASAD

Director

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18/33 Holbeche Road, Arndell Park 2148, Australia
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INFINITY STAINLESS

|| Applications

Our 316L stainless steel pipe and fittings offer performance and reliability across a range of applications and industries, such as:

Compressed Air Systems: High-efficiency distribution with minimal pressure loss.

Hydraulic Applications: Handles high-pressure fluids with ease, ensuring stable and consistent performance.

Industrial Environments: Corrosion-resistant and suitable for harsh settings.

Food and Beverage: Hygienic and safe for sensitive operations.

Marine: Ideal for environments subject to high-corrosion and salinity.

Specialised Industries: Perfect for sectors requiring stringent hygiene and corrosion resistance, such as food processing, healthcare and medical manufacturing.

|| Rated up to 40 bar

Capable of handling a maximum pressure of 40 bar* the Infinity Stainless range is designed to meet the needs of demanding applications. Whether it's for compressed air or hydraulic piping systems, these products deliver superior strength and safety.

SIZE	STANDARD PRESSURE	MAXIMUM PRESSURE*
15-22mm	40 bar	40 bar
28-35mm	25 bar	40 bar
42-108mm	16 bar	40 bar
139-168mm	16 bar (single press)	20 bar (double offset press)

*Infinity Stainless systems are guaranteed to have a maximum pressure of 40 bar for sizes 28mm-54mm when installed using a high-pressure Novopress tool and high-pressure collars. The Novopress ACO403 tool is required for sizes 76mm and above.

Standard pressure is between 16-40 bar when installed using a standard press tool and collars.



Technical Characteristics

MATERIAL	SUS316L Stainless Steel AISI 316L 1.4404 ASTMA666 EN10088		
NOMINAL PRESSURES	16 Bar/232 psi	VACUUM LEVEL	20 mbar (0.29PSI) abs
SAFETY FACTOR	4, Burst pressure > 64 Bar (>928 PSI)	DEWPOINT	Lowest allowable pressure dewpoint is -70°C (-94°F)
WORKING TEMPERATURE	-20 C° to +120 C° (-4°F to 248°F)	TREATMENT	Annealing
APPLICABLE FLUIDS	Compressed Air, Water, Cooling/Chilled Water, Solar Water, Fuel & Oil, Gases etc.	CONNECTION	Press-fit system

O-Ring Specifications

Infinity Stainless pipe and fittings come with green FKM O-rings fitted as standard.

FKM, or fluoroelastomer, O-rings, are made to withstand high temperatures and are highly resistant to oils and chemicals, making them the industry standard for hydraulic applications.



Need HNBR or EPDM O-rings fitted instead? Let our team know and we can accommodate your needs.

TYPE	DESCRIPTION	COLOUR	WORKING TEMPERATURE	MAIN APPLICATION FLUIDS
FKM	Viton Fluoroelastomer	Green	-20C° to 200C° -4°F to 392°F	High Temp. Steam & Gas, Solar, Heating, Compressed Air, Acid Solutions, Chemicals, Inert Gases.
HNBR	Hydrogenated Nitrile Butadiene Rubber	Yellow	-20C° to 100C° -4°F to 212°F	Hydraulic Oil, Inert Gases, Compressed Air, Lubricants.
EPDM	Ethylene Propylene Diene Mnomer	Black	-20C° to 120C° -4°F to 248°F	Cooling/Chilled water, Low Pressure Steam, Compressed Air, Fire Water System, Hydronic Heating, Waste Water

INFINITY STAINLESS

|| Pipe Specifications

ITEM CODE	INTERNAL DIAMETER (DN) (MM)	EXTERNAL DIAMETER (MM)	THICKNESS (MM)	LENGTH (M)
INSS15X6M	13	15	1.00	6
INSS22X6M	20	22	1.50	6
INSS28X6M	25	28	1.50	6
INSS35X6M	32	35	1.50	6
INSS42X6M	40	42	1.50	6
INSS54X6M	50	54	1.50	6

|| Safety Instructions

- ➔ Infinity Stainless pipe is not meant to bear weight other than its own. Heavier accessories incorporated into the Infinity Stainless System, such as filters and valves, need proper supporting.
- ➔ Installers must use necessary protection means and PPE. When working at heights, use a harness for personal protection and ensure that tools are securely fastened to prevent them from falling.
- ➔ Consider the potential galvanic corrosion when combining parts with different materials.
- ➔ Before any installation, adjustment, repair work or other non-routine checks, relieve the Infinity Stainless system of pressure and effectively isolate the system from all sources of pressure.
- ➔ Use only solvents or chemicals that do not damage the materials of the Infinity Stainless system.
- ➔ At initial startup of the Infinity Stainless system, apply a test pressure of 1.5 bar to identify leakages or imperfect joints. After performing an inspection, increase the pressure gradually and constantly (max 1 bar every 5 minutes) and perform a second inspection for leakages or imperfect joints at the final pressure.
- ➔ Never use damaged Infinity Stainless pipe or fittings.



Installation

Operating Conditions

- ➔ Infinity Stainless pipe and fittings must only be used within the pressure and temperature specifications referred to in the Technical Characteristics Information Table on page 5.
- ➔ Infinity Stainless pipe and fittings must be appropriately protected against violent impacts and wind gusts.
- ➔ Ensure accessibility of the Infinity Stainless system for possible future system expansion or maintenance.
- ➔ Infinity Stainless pipe and fittings should not be used as support for electrical equipment or earth conductors.
- ➔ Infinity Stainless pipe should never be directly connected to a source of vibration - use hoses instead.
- ➔ Pressure relief valves must be installed where needed to ensure that the system working pressure cannot exceed the maximum working pressure of Infinity Stainless.
- ➔ Infinity Stainless pipe and fittings are not suitable for direct contact with soil. A watertight PVC pipe suited for underground or outside installations can be used to install around the Infinity Stainless pipe.

Installation in Explosive Environments

- ➔ Cutting, deburring and assembly of stainless steel pipes can create sparks. Necessary precautions in explosive atmospheres must be taken.
- ➔ Infinity Stainless installations in explosive environments must always be earthed. Bonding and earthing must be checked at frequent intervals to ensure that the system cannot be electrically charged.

Purity Remarks

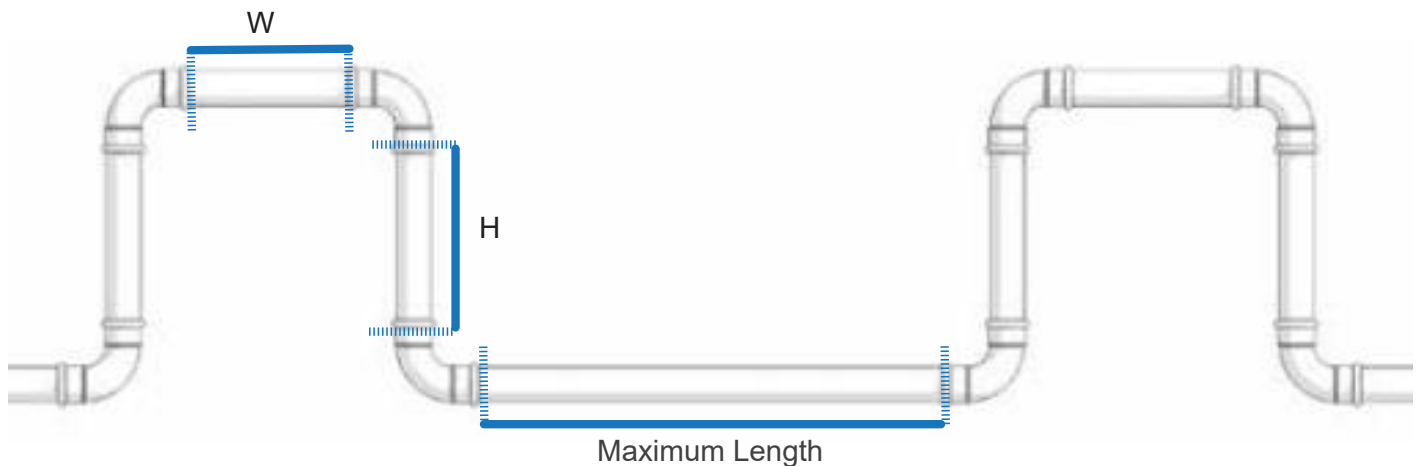
To guarantee the purity of the compressed air at the point of use:

- ➔ a system purge of at least 24 hours is highly recommended.
- ➔ a properly sized certified point-of-use filter is advised, depending on the application requirements.

The Infinity Stainless system cannot be allowed to convey any end products (food, beverage, pharmaceuticals, etc.).

Expansion Loops

Temperature variations can cause long straight pipes to expand or contract. In order to compensate for this effect, expansion loops or compensators are required. An expansion loop is a U-shaped construction that compensates the variation in length. Compensators are straight fittings specifically designed to allow axial movement. The number of expansion loops or compensators depends on the total length of the straight line and the maximum temperature variation.



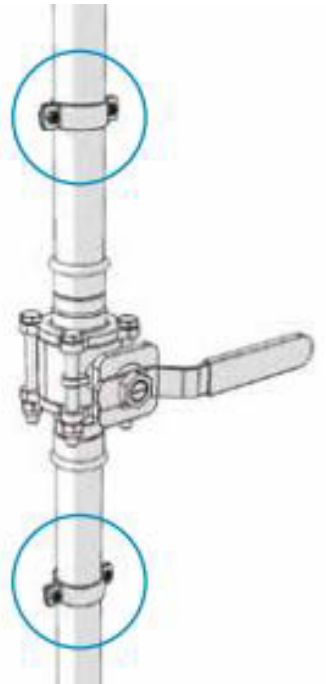
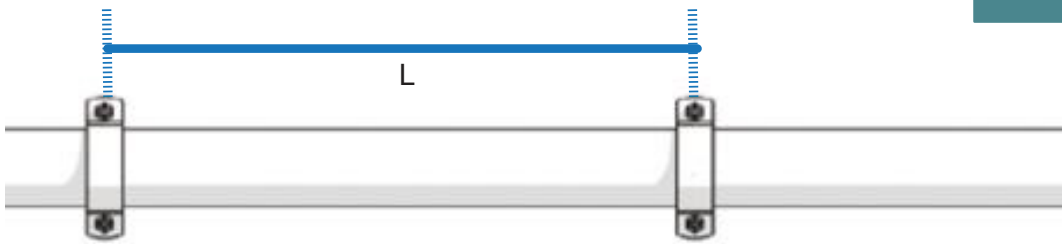
	Ø 15mm	Ø 28mm	Ø 35mm	Ø 42mm	Ø 54mm
H	0.75m	1m	1m	1.25m	1.25m
W	0.375m	0.5m	0.5m	0.625m	0.625m
Maximum distance between two expansion joints (metres)					
ΔT	Ø 15mm	Ø 28mm	Ø 35mm	Ø 42mm	Ø 54mm
5°C	726m	691m	553m	720m	560m
10°C	363m	345m	276m	360m	280m
20°C	181m	172m	138m	180m	140m
30°C	121m	115m	92m	120m	93m
40°C	90m	86m	69m	90m	70m
50°C	72m	69m	55m	72m	56m
60°C	60m	57m	46m	60m	46m
70°C	51m	49m	39m	51m	40m
80°C	45m	43m	34m	45m	35m
90°C	40m	38m	30m	40m	31m
100°C	36m	34m	27m	36m	28m

|| Pipe Support

Ensure that the piping system is rigidly supported by the building's structure to prevent movement due to external forces, e.g. wind.

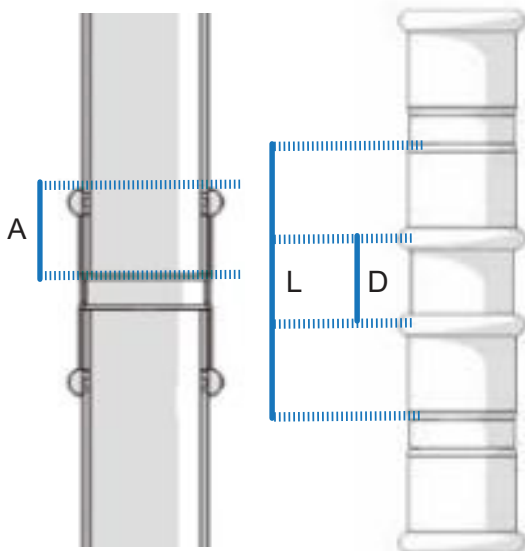
The maximum distance 'L' between two pipe clips is given in the table below.

Valves must be supported by pipe clips on both sides, with a maximum distance of 500mm between the valve and the pipe clips.



External Pipe Diameter (mm)	Maximum distance (m)
15mm	1.5m
28mm	2.5m
35mm	2.5m
42mm	3m
54mm	3.5m

|| Pipe Insertion



A = Insertion Depth
D = Minimum Distance
L = Minimum Pipe Length Tube

External Pipe Diameter (mm)	A (mm)	D (mm)	L (mm)
15mm	20	20	60
28mm	23	20	66
35mm	26	20	72
42mm	30	40	100
54mm	35	40	110

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Stainless Steel Pipe, per length

CODE	SIZE
INSS15X6M	15mm x 6m Pipe Length - Stainless Steel 316L
INSS22X6M	22mm x 6m Pipe Length - Stainless Steel 316L
INSS28X6M	28mm x 6m Pipe Length - Stainless Steel 316L
INSS35X6M	35mm x 6m Pipe Length - Stainless Steel 316L
INSS42X6M	42mm x 6m Pipe Length - Stainless Steel 316L
INSS54X6M	54mm x 6m Pipe Length - Stainless Steel 316L



Straight Female Adapter

CODE	SIZE
INSSFA1512	15 x 1/2" Female Adaptor - Stainless Steel 316L
INSSFA2212	22 x 1/2" Female Adaptor - Stainless Steel 316L
INSSFA2220	22 x 3/4" Female Adaptor - Stainless Steel 316L
INSSFA2820	28 x 3/4" Female Adaptor - Stainless Steel 316L
INSSFA2825	28 x 1" Female Adaptor - Stainless Steel 316L
INSSFA3525	35 x 1" Female Adaptor - Stainless Steel 316L
INSSFA3532	35 x 1 1/4" Female Adaptor - Stainless Steel 316L
INSSFA4240	42 x 1 1/2" Female Adaptor - Stainless Steel 316L
INSSFA5450	54 x 2" Female Adaptor - Stainless Steel 316L



Slip Coupling

CODE	SIZE
INSSSC15	15mm Slip Coupling - Stainless Steel 316L
INSSSC22	22mm Slip Coupling - Stainless Steel 316L
INSSSC28	28mm Slip Coupling - Stainless Steel 316L
INSSSC35	35mm Slip Coupling - Stainless Steel 316L
INSSSC42	42mm Slip Coupling - Stainless Steel 316L
INSSSC54	54mm Slip Coupling - Stainless Steel 316L



Straight Male Adapter

CODE	SIZE
INSSMA1512	15 x 1/2" Male Adaptor - Stainless Steel 316L
INSSMA2212	22 x 1/2" Male Adaptor - Stainless Steel 316L
INSSMA2220	22 x 3/4" Male Adaptor - Stainless Steel 316L
INSSMA2820	28 x 3/4" Male Adaptor - Stainless Steel 316L
INSSMA2825	28 x 1" Male Adaptor - Stainless Steel 316L
INSSMA3525	35 x 1" Male Adaptor - Stainless Steel 316L
INSSMA3532	35 x 1 1/4" Male Adaptor - Stainless Steel 316L
INSSMA4240	42 x 1 1/2" Male Adaptor - Stainless Steel 316L
INSSMA5450	54 x 2" Male Adaptor - Stainless Steel 316L



Straight Coupling

CODE	SIZE
INSSC15	15mm Coupling - Stainless Steel 316L
INSSC22	22mm Coupling - Stainless Steel 316L
INSSC28	28mm Coupling - Stainless Steel 316L
INSSC35	35mm Coupling - Stainless Steel 316L
INSSC42	42mm Coupling - Stainless Steel 316L
INSSC54	54mm Coupling - Stainless Steel 316L



Reducing Coupling

CODE	SIZE
INSSRC2215	22 x 15mm Reducing Coupling - Stainless Steel 316L
INSSRC2815	28 x 15mm Reducing Coupling - Stainless Steel 316L
INSSRC2822	28 x 22mm Reducing Coupling - Stainless Steel 316L
INSSRC3522	35 x 22mm Reducing Coupling - Stainless Steel 316L
INSSRC3528	35 x 28mm Reducing Coupling - Stainless Steel 316L
INSSRC4222	42 x 22mm Reducing Coupling - Stainless Steel 316L
INSSRC4228	42 x 28mm Reducing Coupling - Stainless Steel 316L
INSSRC4235	42 x 35mm Reducing Coupling - Stainless Steel 316L
INSSRC5422	54 x 22mm Reducing Coupling - Stainless Steel 316L
INSSRC5428	54 x 28mm Reducing Coupling - Stainless Steel 316L
INSSRC5435	54 x 35mm Reducing Coupling - Stainless Steel 316L
INSSRC5442	54 x 42mm Reducing Coupling - Stainless Steel 316L



Equal Tee

CODE	SIZE
INSST15	15mm Equal Tee - Stainless Steel 316L
INSST22	22mm Equal Tee - Stainless Steel 316L
INSST28	28mm Equal Tee - Stainless Steel 316L
INSST35	35mm Equal Tee - Stainless Steel 316L
INSST42	42mm Equal Tee - Stainless Steel 316L
INSST54	54mm Equal Tee - Stainless Steel 316L



Reducing Tee

CODE	SIZE
INSSRT2215	22 x 15mm Reducing Tee - Stainless Steel 316L
INSSRT2815	28 x 15mm Reducing Tee - Stainless Steel 316L
INSSRT2822	28 x 22mm Reducing Tee - Stainless Steel 316L
INSSRT3515	35 x 15mm Reducing Tee - Stainless Steel 316L
INSSRT3522	35 x 22mm Reducing Tee - Stainless Steel 316L
INSSRT3528	35 x 28mm Reducing Tee - Stainless Steel 316L
INSSRT4222	42 x 22mm Reducing Tee - Stainless Steel 316L
INSSRT4228	42 x 28mm Reducing Tee - Stainless Steel 316L
INSSRT4235	42 x 35mm Reducing Tee - Stainless Steel 316L
INSSRT5422	54 x 22mm Reducing Tee - Stainless Steel 316L
INSSRT5428	54 x 28mm Reducing Tee - Stainless Steel 316L
INSSRT5435	54 x 35mm Reducing Tee - Stainless Steel 316L
INSSRT5442	54 x 42mm Reducing Tee - Stainless Steel 316L



B-Type Elbow

CODE	SIZE
INSSE15-90	15mm B-Type Elbow - Stainless Steel 316L
INSSE22-90	22mm B-Type Elbow - Stainless Steel 316L
INSSE28-90	28mm B-Type Elbow - Stainless Steel 316L
INSSE35-90	35mm B-Type Elbow - Stainless Steel 316L
INSSE42-90	42mm B-Type Elbow - Stainless Steel 316L
INSSE54-90	54mm B-Type Elbow - Stainless Steel 316L



Female Tee

CODE	SIZE
INSSTF15-1/2	15 x 1/2" Female Tee - Stainless Steel 316L
INSSTF22-1/2	22 x 1/2" Female Tee - Stainless Steel 316L
INSSTF22-3/4	22 x 3/4" Female Tee - Stainless Steel 316L
INSSTF28-1/2	28 x 1/2" Female Tee - Stainless Steel 316L
INSSTF28-3/4	28 x 3/4" Female Tee - Stainless Steel 316L
INSSTF35-1/2	35 x 1/2" Female Tee - Stainless Steel 316L
INSSTF35-3/4	35 x 3/4" Female Tee - Stainless Steel 316L
INSSTF42-1/2	42 x 1/2" Female Tee - Stainless Steel 316L
INSSTF42-3/4	42 x 3/4" Female Tee - Stainless Steel 316L
INSSTF54-1/2	54 x 1/2" Female Tee - Stainless Steel 316L
INSSTF54-3/4	54 x 3/4" Female Tee - Stainless Steel 316L



A-Type Elbow

CODE	SIZE
INSSE15	15mm A-Type Elbow - Stainless Steel 316L
INSSE22	22mm A-Type Elbow - Stainless Steel 316L
INSSE28	28mm A-Type Elbow - Stainless Steel 316L
INSSE35	35mm A-Type Elbow - Stainless Steel 316L
INSSE42	42mm A-Type Elbow - Stainless Steel 316L
INSSE54	54mm A-Type Elbow - Stainless Steel 316L



A-Type 135°/45° Elbow

CODE	SIZE
INSSEC15	15mm 45° A-Type Elbow - Stainless Steel 316L
INSSEC22	22mm 45° A-Type Elbow - Stainless Steel 316L
INSSEC28	28mm 45° A-Type Elbow - Stainless Steel 316L
INSSEC35	35mm 45° A-Type Elbow - Stainless Steel 316L
INSSEC42	42mm 45° A-Type Elbow - Stainless Steel 316L
INSSEC54	54mm 45° A-Type Elbow - Stainless Steel 316L

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B-Type 135°/45° Elbow

CODE	SIZE
INSSMEC15	15mm 45° B-Type Elbow - Stainless Steel 316L
INSSMEC22	22mm 45° B-Type Elbow - Stainless Steel 316L
INSSMEC28	28mm 45° B-Type Elbow - Stainless Steel 316L
INSSMEC35	35mm 45° B-Type Elbow - Stainless Steel 316L
INSSMEC42	42mm 45° B-Type Elbow - Stainless Steel 316L
INSSMEC54	54mm 45° B-Type Elbow - Stainless Steel 316L



Male Elbow

CODE	SIZE
INSSEM15-1/2	15mm x 1/2" Male Elbow - Stainless Steel 316L
INSSEM22-3/4	22mm x 3/4" Male Elbow - Stainless Steel 316L
INSSEM28-1	28mm x 1" Male Elbow - Stainless Steel 316L
INSSEM35-1 1/4	35mm x 1 1/4" Male Elbow - Stainless Steel 316L
INSSEM42-1 1/2	42mm x 1 1/2" Male Elbow - Stainless Steel 316L
INSSEM54-2	54mm x 2" Male Elbow - Stainless Steel 316L



Female Elbow

CODE	SIZE
INSSEF15-1/2	15mm x 1/2" Female Elbow - Stainless Steel 316L
INSSEF22-3/4	22mm x 3/4" Female Elbow - Stainless Steel 316L
INSSEF28-1	28mm x 1" Female Elbow - Stainless Steel 316L
INSSEF35-1 1/4	35mm x 1 1/4" Female Elbow - Stainless Steel 316L
INSSEF42-1 1/2	42mm x 1 1/2" Female Elbow - Stainless Steel 316L
INSSEF54-2	54mm x 2" Female Elbow - Stainless Steel 316L



Male Union

CODE	SIZE
INSSMU15-1/2	15mm x 1/2" Male Union - Stainless Steel 316L
INSSMU22-3/4	22mm x 3/4" Male Union - Stainless Steel 316L
INSSMU28-1	28mm x 1" Male Union - Stainless Steel 316L
INSSMU35-1 1/4	35mm x 1 1/4" Male Union - Stainless Steel 316L
INSSMU42-1 1/2	42mm x 1 1/2" Male Union - Stainless Steel 316L
INSSMU54-2	54mm x 2" Male Union - Stainless Steel 316L



Reducing Union

CODE	SIZE
INSSMR22-15	22 x 15mm Male Reducer - Stainless Steel 316L
INSSMR28-15	28 x 15mm Male Reducer - Stainless Steel 316L
INSSMR28-22	28 x 22mm Male Reducer - Stainless Steel 316L
INSSMR35-22	35 x 22mm Male Reducer - Stainless Steel 316L
INSSMR35-28	35 x 28mm Male Reducer - Stainless Steel 316L
INSSMR42-22	42 x 22mm Male Reducer - Stainless Steel 316L
INSSMR42-28	42 x 28mm Male Reducer - Stainless Steel 316L
INSSMR42-35	42 x 35mm Male Reducer - Stainless Steel 316L
INSSMR54-22	54 x 22mm Male Reducer - Stainless Steel 316L
INSSMR54-28	54 x 28mm Male Reducer - Stainless Steel 316L
INSSMR54-35	54 x 35mm Male Reducer - Stainless Steel 316L
INSSMR54-42	54 x 42mm Male Reducer - Stainless Steel 316L



Pipe Bend

CODE	SIZE
INSSPB15	15mm Pipe Bend - Stainless Steel 316L
INSSPB22	22mm Pipe Bend - Stainless Steel 316L
INSSPB28	28mm Pipe Bend - Stainless Steel 316L



Plug / End Cap

CODE	SIZE
INSSP15	15mm Plug - Stainless Steel 316L
INSSP22	22mm Plug - Stainless Steel 316L
INSSP28	28mm Plug - Stainless Steel 316L
INSSP35	35mm Plug - Stainless Steel 316L
INSSP42	42mm Plug - Stainless Steel 316L
INSSP54	54mm Plug - Stainless Steel 316L



3-piece Ball Valve

CODE	SIZE
INSSBV15	15mm Ball Valve - Stainless Steel 316L
INSSBV22	22mm Ball Valve - Stainless Steel 316L
INSSBV28	28mm Ball Valve - Stainless Steel 316L
INSSBV35	35mm Ball Valve - Stainless Steel 316L
INSSBV42	42mm Ball Valve - Stainless Steel 316L
INSSBV54	54mm Ball Valve - Stainless Steel 316L

NOTES

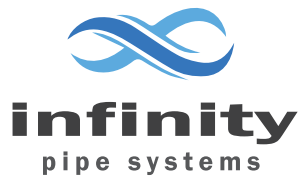


A Complete Stainless System

Infinity Pipe Systems have the pneumatic accessories, function fittings, adaptors, actuators, manifolds, ball valves, pressure regulators, flow control valves and cylinders you need to design a complete end-to-end stainless steel system.

Whether you're building a new system or upgrading an existing one, discover the superior performance and longevity of our stainless steel compressed air pipe and fittings. With industry-leading features and a commitment to quality, we're here to support your most critical applications.

Contact our team to learn more about our product range, request a quote, or schedule a consultation.



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