

Instrumentation Products

Needle Type Globe Valves and Accessories



Introduction

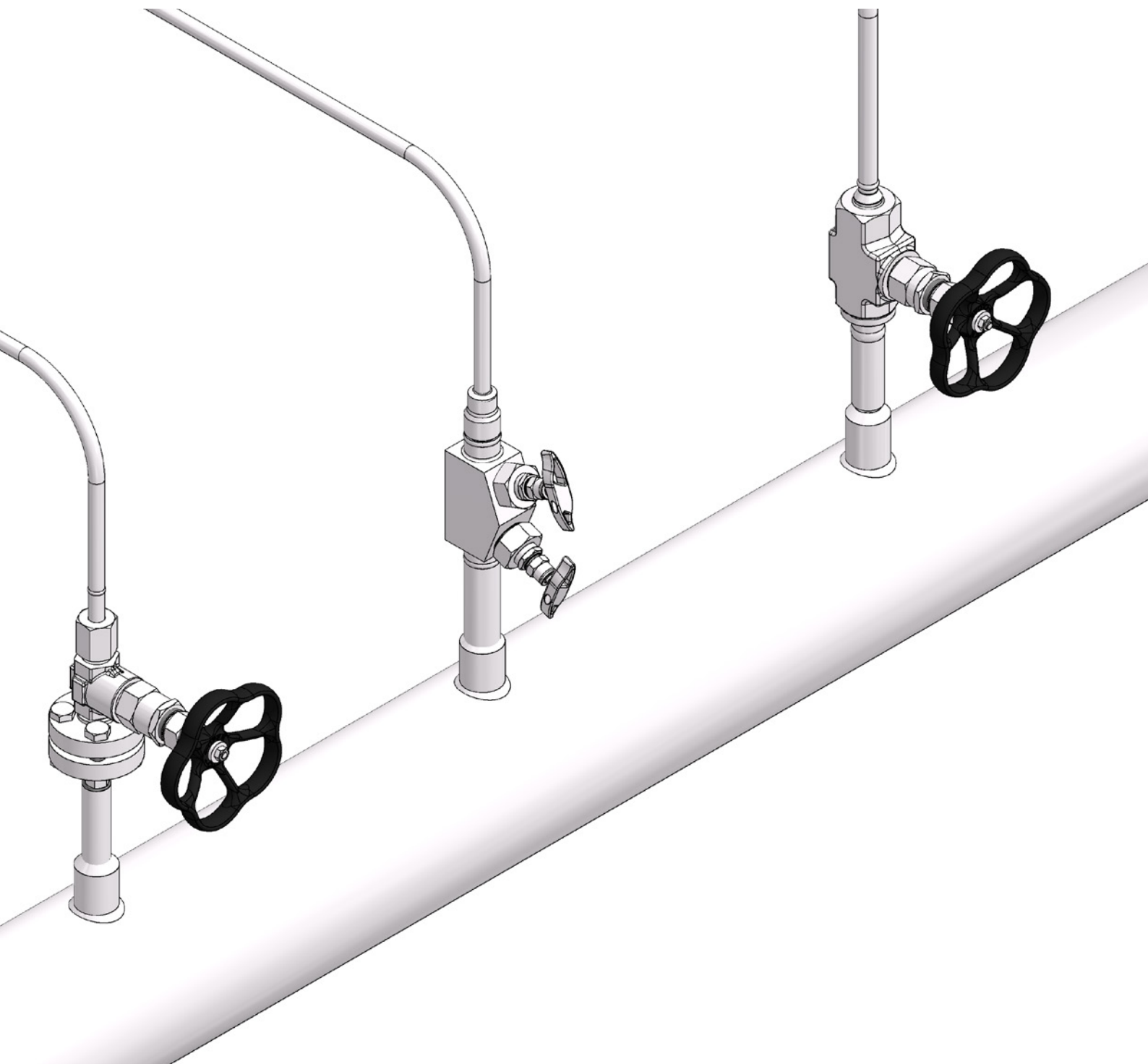
Introduction

The AS-Schneider Group with its headquarters in Germany is one of the World's Leading Manufacturers of Instrumentation Valves and Manifolds. AS-Schneider offers a large variety of Needle Type Globe Valves for General and Severe Service applications for liquids, gases and steam but also Accessories needed for the instrumentation installations globally.

Selection can be made from a comprehensive range of bodies with a variety of connections and material options, optimising installation and access opportunities. Many of the valves shown in this catalogue are available from stock or within a short period of time. The dimensions shown in this catalogue apply to standard types. If you need the dimensions for your individual type please contact the factory.

Continuous product development may from time to time necessitate changes in the details contained in this catalogue. AS-Schneider reserves the right to make such changes at their discretion and without prior notice.

All dimensions shown in this catalogue are approximate and subject to change.



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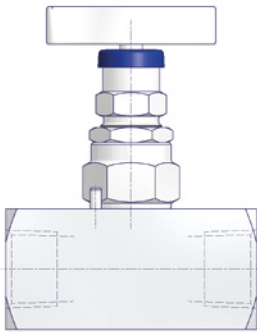
Needle Type Globe Valves Overview

Type H

E Series Needle Valves DN 5 / Bore Size 5 mm

- Barstock Body
- Screwed Bonnet
- Integral Valve Seat
- External Stem Thread

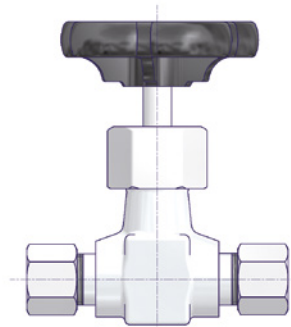
Detailed information see Catalogue AS-2601 – E Series Valves and Manifolds - Hand Valves.



Type S338

Integral Bonnet Needle Valves DN 6 / Bore Size 6 mm

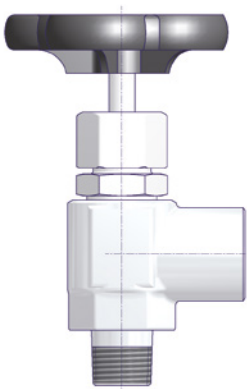
- Forged Body
- Integral Bonnet
- Integral Valve Seat
- Internal Stem Thread



Type S360

Angle Needle Valves DN 8 / Bore Size 8 mm

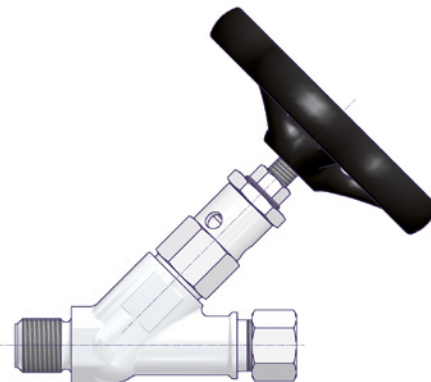
- Forged Body
- Screwed Bonnet
- Integral Valve Seat
- Internal Stem Thread



Type S371

Y-Pattern Needle Valves DN 8 / Bore Size 8 mm

- Forged Body
- Screwed Bonnet
- Integral Valve Seat
- External Stem Thread



Needle Type Globe Valves Overview

Type A6A

Primary Isolation Valves DN 8 / Bore Size 8 mm

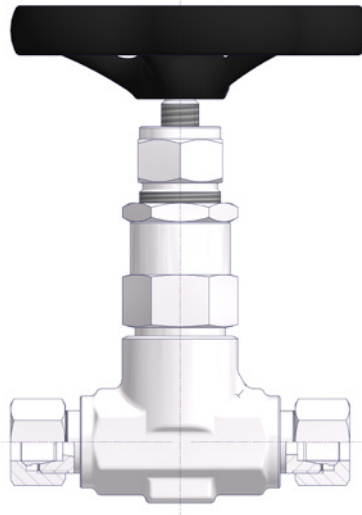
- Forged Body
- Screwed Bonnet
- Replaceable Valve Seat
- External Stem Thread



Type A6B

Needle Valves DN 8 / Bore Size 8 mm

- Forged Body
- Screwed Bonnet
- Replaceable Valve Seat
- External Stem Thread



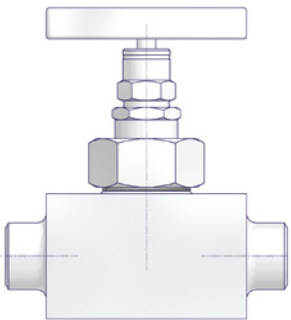
Type A1 / B1

Union Bonnet Needle Valves

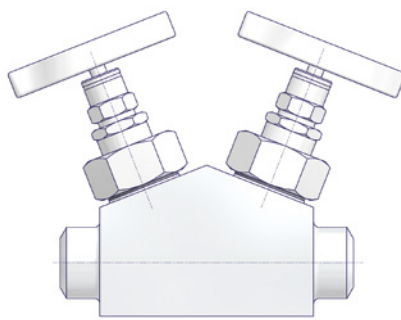
Type A1: DN 11 / Bore Size = 11 mm

Type B1: DN 8 / Bore Size = 8 mm

- Barstock Body
- Union Bonnet Design
- Integral Valve Seat
- External Stem Thread



Type A1



Type B1

General Features

Standard Features

Packing:

PTFE and Graphite Packings are available for all valve types.

Surface Treatment:

Carbon Steel Valves are phosphatized by default.

Pressure Test:

A shell test and a seat test are performed at 1.5 times the max. allowable (working) pressure acc. to EN 12266-1 - P10, P11 and P12 respectively MSS-SP61 at every standard AS-Schneider Needle Type Globe Valve.

Certification:

Inspection certificate 3.1 acc. to EN 10 204 for valve body material and pressure test available on request. The heat resisting materials (see table on Page 6) are available by default with inspection certificate 3.2!

Optional Features

Fugitive Emission Applications:

For Fugitive Emission Applications AS-Schneider is providing bellows sealed valves with safety packing. Choice of Pressure class PN 100 or PN 250 - Suffix P5 or P6.

The bellows are submitted to a 100% Helium leak test. Leak rate: 10^{-8} mbar l/s.

Optional available are TA-Luft and ISO 15848 solutions. For more details please contact the factory.

Oxygen Service:

AS-Schneider offers an option with Reinforced PTFE Packing cleaned and lubricated for Oxygen Service – Suffix F5:

Pressure-Temperature Rating:

Max. 420 bar @ 60°C

Max. 200°C @ 90 bar

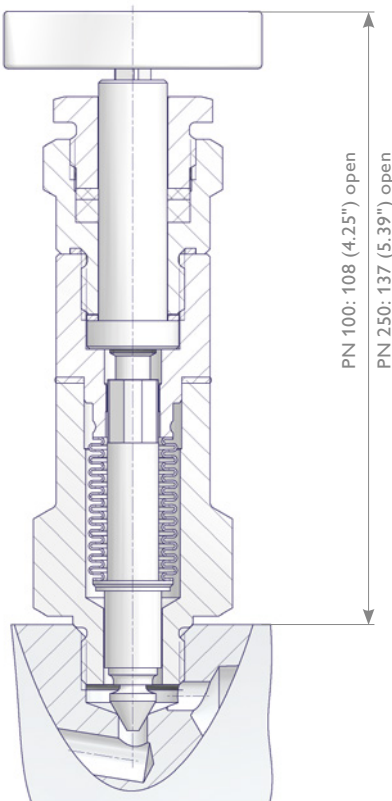
Not every Valve type is available for Oxygen Service.

If you don't find your options in this catalogue, please contact the factory.

Valve Head Unit Options

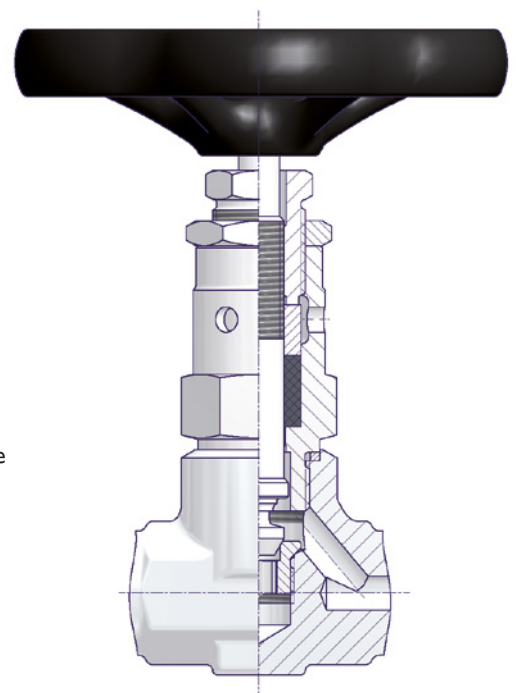
Bellows Sealed Head Units

Bellows Sealed Head Units are mainly used for applications requiring the highest tightness class – such as toxic or vacuum service.



External Stem Thread

External Stem Thread means Packing below Stem Threads. Stem Threads are protected from process media (non-wetted), helps to prevent stems from galling.



Stem Features

- Stem with cold rolled threads
- Back seat (except Integral Bonnet Needle Valve)
- Non-rotating needle tip or alternatively non-rotating needle

Valve Seat (Metal to Metal)

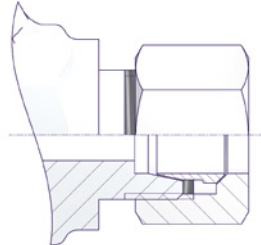
- Integral Valve Seat or Replaceable Valve Seat

Connections

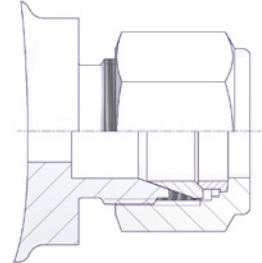
AS-Schneider is manufacturing a lot of different connections and connection combinations. In this catalogue we are showing the most popular types. On this page you will find the standard connections in detail.

Tube Fittings

Single Ferrule Tube Fittings
acc. to EN ISO 8434-1 Size S

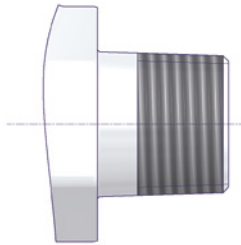


Twin Ferrule Tube Fittings

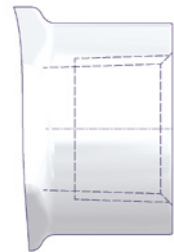


Tapered Pipe Threads

NPT Male Threads
acc. to ASME B 1.20.1

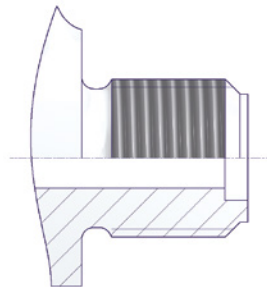


NPT Female Threads
acc. to ASME B 1.20.1

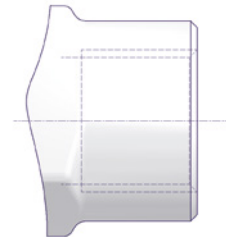


Parallel Pipe Threads

BSP Parallel Male Threads
acc. to DIN 19207 (G1/2)
acc. to DIN 3852

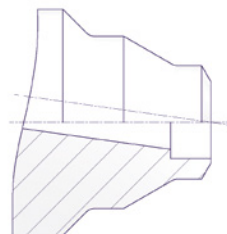


BSP Parallel Female Threads
acc. to ISO 228 (e.g. G 1/2)
acc. to DIN 3852-2 Form Z



Weld Ends

Butt Weld Ends
for Pipes and Tubes
acc. to ASME B16.9 and
EN 12627



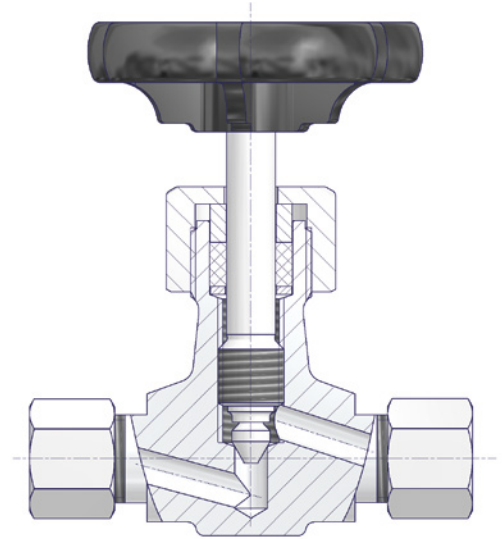
Socket Weld Ends
for Pipes and Tubes
acc. to ASME B16.11 and
EN 12760



Integral Bonnet Needle Valves

Features

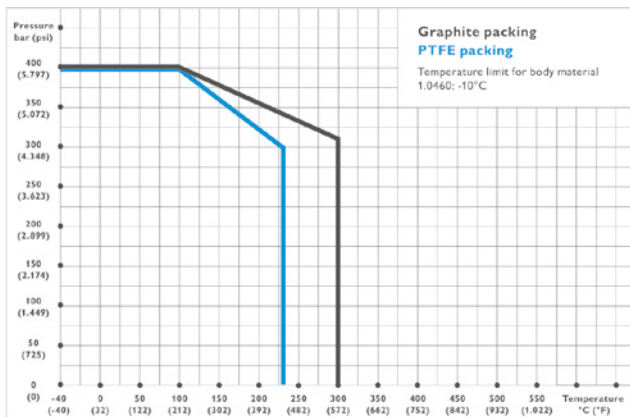
- Forged Body - DN 6 / Bore Size 6 mm
- Integral Bonnet
- Integral Valve Seat
- Internal Stem Thread
- Stem with cold rolled surface and non-rotating needle tip
- Standard-Packing PTFE (max. 232°C)
- Optional Graphite Packing (max. 300°C)



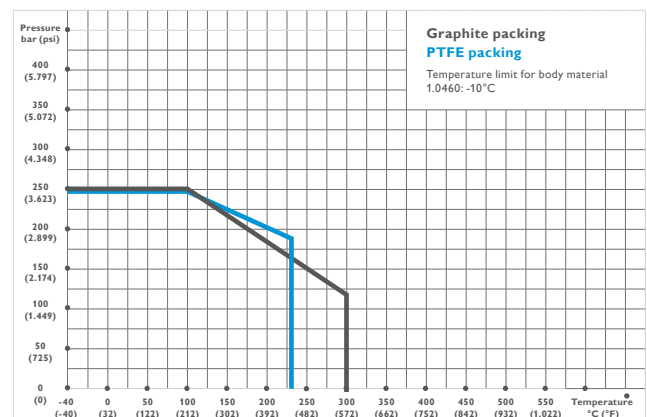
Components	Carbon Steel	Stainless Steel
	Material / Material No.	
Body	1.0460 / A105	1.4571
Valve Stem	1.4104	
Needle Tip	1.4122	
Packing	PTFE (Optional Graphite)	
Union Nut	Unalloyed Steel	1.4571
Tube Fitting		
Handwheel	Plastic	

Pressure-Temperature Ratings

Series S

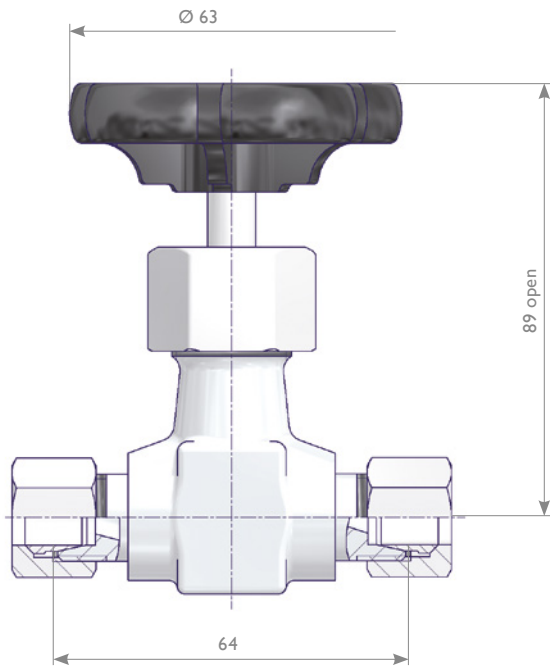


Series L



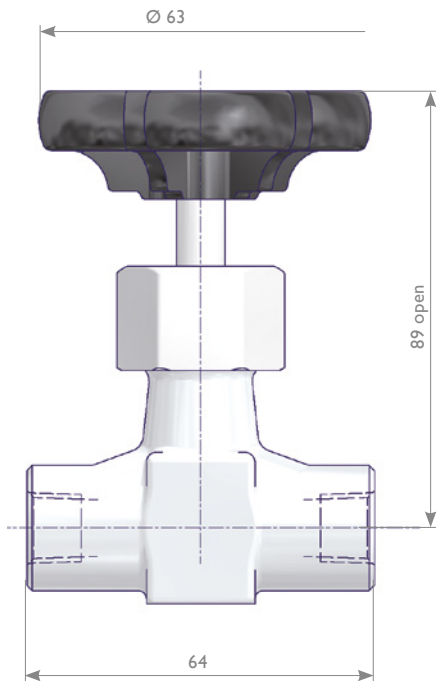
Needle Valves Type S338

Tube Fitting Connections Size S/L



Inlet	Outlet	Part Number	
		Material	
Tube Fitting Sizes		1.0460 / A105	1.4571
6S		S338.03.130	S338.03.230
8S		S338.03.120	S338.03.220
10S		S338.03.110	S338.03.210
12S		S338.03.100	S338.03.200
6L		S338.03.180	S338.03.280
8L		S338.03.170	S338.03.270
10L		S338.03.160	S338.03.260
12L		S338.03.150	S338.03.250

Female Threads



Inlet	Outlet	Part Number	
		Material	
		1.0460 / A105	1.4571
1/4 NPT Female		S338.08.110	S338.08.210
G 1/4 Female		S338.08.115	S338.08.215
G 3/8 Female		S338.08.116	S338.08.216

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