

Needle and Butterfly Valves

Brass Needle Valve

In-Line

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Venting Pressure Gauge Valve

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Stainless Steel Needle Valve

In-Line

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Butterfly Valve

In-Line

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Needle Valves

Parker Legris compact needle valves can be installed in any system and are designed for applications requiring accurate **leak-free fluid control** and **excellent service life**.

Product Advantages

- Robust and Easy-to-Use**
 - Accurate flow control
 - Forged brass for improved long-term mechanical strength
 - Robust stem for good operational reliability
 - Corrosion resistance
- Wide Range**
 - Two materials (nickel-plated brass and stainless steel) suitable for many applications
 - Numerous valve and safety accessory configurations



Pneumatics
Water Circuits
Machine Tools
Rubber Industry
Packaging
Textile

Applications

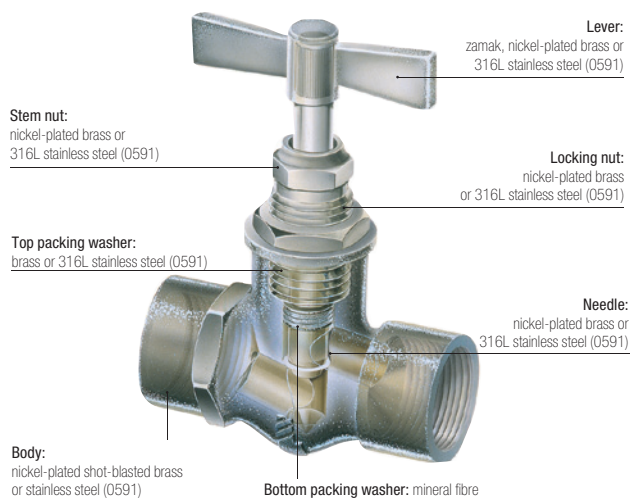
Technical Characteristics

| | Brass | Stainless Steel |
|----------------------------|----------------------------------------------------------------------------|-----------------|
| Compatible Fluids | Compressed air, water, industrial fluids, etc. Other fluids: contact us | Many fluids |
| Working Pressure | 0 to 120 bar | 0 to 400 bar |
| Working Temperature | -20°C to +100°C (except model 0510) | -20°C to +180°C |

| Tightening Torques | Threads | G1/8 | G1/4 | G3/8 | G1/2 |
|---------------------------|---------|--------------|--------------|--------------|--------------|
| | daN.m | 0.10 to 0.20 | 0.10 to 0.20 | 0.15 to 0.25 | 0.20 to 0.35 |

Reliable performance is dependent upon the type of fluid conveyed.

Component Materials



Silicone-free


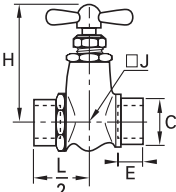

Regulations

- DI: 97/23/EC (module PED A - diameters greater than 25 mm)
- DI: 2006/42/EC (Machinery Directive)
- DI: 2002/95/EC (RoHS)
- RG: 1907/2006 (REACH)

Brass Needle Valves


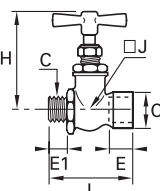

0502 In-Line Needle Valve, Female BSPP Thread



| | | | | | | | | | | |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------|-----------|-----------------------------------------------------------------------------------|----------|----------|------------------------|----------|------------|-----------|
|  | Nickel-plated brass  | C | DN |  | E | H | H_{max} | J | L/2 | kg |
| | | G1/8 | 4 | 0502 04 10 | 9 | 56 | 50 | 17 | 23 | 0.133 |
| | | G1/4 | 4 | 0502 04 13 | 11 | 56 | 50 | 17 | 23 | 0.118 |
| | | G3/8 | 6 | 0502 06 17 | 12 | 67 | 60 | - | 26 | 0.171 |
| | | | 9 | 0502 09 17 | 12 | 82 | 70 | - | 33 | 0.426 |


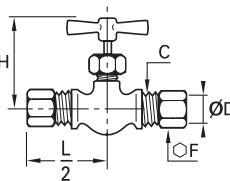

0501 In-Line Needle Valve, Male/Female BSPP Thread



| | | | | | | | | | | | |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------|-----------|-----------------------------------------------------------------------------------|----------|-----------|----------|------------------------|----------|----------|-----------|
|  | Nickel-plated brass  | C | DN |  | E | E1 | H | H_{max} | J | L | kg |
| | | G1/8 | 4 | 0501 04 10 | 9 | 7 | 56 | 50 | 17 | 44 | 0.118 |
| | | G1/4 | 4 | 0501 04 13 | 11 | 9.5 | 56 | 50 | 17 | 46 | 0.115 |
| | | G3/8 | 6 | 0501 06 17 | 12 | 9.5 | 67 | 60 | - | 48 | 0.158 |

0510 In-Line Needle Valve with Compression Connections


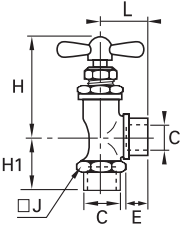



| | | | | | | | | | | |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----------|----------|-----------|-------------------------------------------------------------------------------------|----------|------------------------|------------------------|------------|-----------|
|  | Nickel-plated brass  | ØD | C | DN |  | F | H_{min} | H_{max} | L/2 | kg |
| | | 6 | M10x1 | 4 | 0510 04 06 | 13 | 42 | 46 | 29 | 0.083 |
| | | 8 | M12x1 | 8 | 0510 05 08 | 14 | 42 | 46 | 30 | 0.083 |
| | | 10 | M16x1.5 | 5 | 0510 05 10 | 19 | 42 | 46 | 31 | 0.111 |

The needle is sealed by an O-ring.
 Maximum operating pressure: Ø4: 100 bar, Ø5: 60 bar
 Working temperature: -15°C to +70°C
 Tightening torques: please refer to the Compression Fittings chapter of this catalogue.


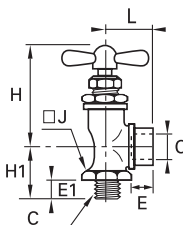

0532 Right-Angle Needle Valve, Female BSPP Thread



| | | | | | | | | | | | |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------|-----------|-------------------------------------------------------------------------------------|----------|------------------------|------------------------|-----------|----------|----------|-----------|
|  | Nickel-plated brass  | C | DN |  | E | H_{min} | H_{max} | H1 | J | L | kg |
| | | G1/8 | 4 | 0532 04 10 | 9 | 46 | 52 | 19 | 17 | 19 | 0.093 |
| | | G1/4 | 4 | 0532 04 13 | 11 | 46 | 52 | 21 | 17 | 21 | 0.087 |
| | | | 6 | 0532 06 13 | 11 | 55 | 63 | 26 | 22 | 26 | 0.169 |

0531 Right-Angle Needle Valve, Male/Female BSPP Thread


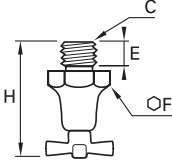




| | | | | | | | | | | | | |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------|------------|-------------------------------------------------------------------------------------|----------|-----------|------------------------|------------------------|-----------|----------|----------|-----------|
|  | Nickel-plated brass  | C | DN |  | E | E1 | H_{min} | H_{max} | H1 | J | L | kg |
| | | G1/8 | 4 | 0531 04 10 | 7 | 9 | 46 | 52 | 19 | 17 | 19 | 0.082 |
| | | G1/4 | 4 | 0531 04 13 | 9.5 | 11 | 46 | 52 | 21 | 17 | 21 | 0.090 |
| | | | 6 | 0531 06 13 | 9.5 | 11 | 55 | 63 | 25 | 22 | 26 | 0.155 |
| | | G3/8 | 6 | 0531 06 17 | 9.5 | 12 | 55 | 63 | 25 | 22 | 27 | 0.153 |
| G1/2 | 10 | | 0531 10 21 | 13 | 16 | 62 | 72 | 34 | 26 | 33 | 0.330 | |


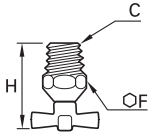


Industrial Valves
Needle and Butterfly Valves

Brass Needle Valves


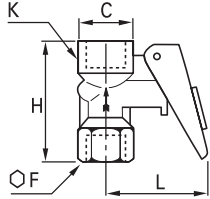

0562 Needle Drain Valve, Male BSPP and Metric Thread

| | | | | | | | | | |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------|----------|----------|----------|-----------|
|  | Brass  | C |  |  | E | F | H | H | kg |
| | | M10x1 | 5 | 0562 05 60 | 8 | 16 | 37.5 | 40 | 0.031 |
| | | G1/8 | 5 | 0562 05 10 | 8 | 16 | 36 | 40 | 0.032 |
| | | G1/4 | 5 | 0562 05 13 | 10 | 19 | 38.5 | 42.5 | 0.040 |

0563 Needle Drain Valve, Male NPT Thread


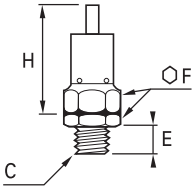

| | | | | | | | | |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------|----------|----------|-----------|
|  | Brass  | C |  |  | F | H | H | kg |
| | | NPT1/4 | 5 | 0563 05 14 | 14 | 28.5 | 32.5 | 0.021 |

0627 Automatic Vent Pressure Gauge Valve, Female BSPP Thread

| | | | | | | | | |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------|----------|----------|----------|----------|-----------|
|  | Nickel-plated brass, NBR  | C |  | F | H | K | L | kg |
| | | G1/4 | 0627 00 13 | 19 | 43.5 | 20 | 40 | 0.097 |

Pressure: 10 bar
 This isolating valve is used to connect a pressure gauge to a circuit.
 Resetting the lever isolates and vents the gauge.
 A locking pin can be used to enable the gauge to be fitted permanently.

0630 Pressure Relief Valve, Male BSPP Thread

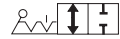
| | | | | | | | |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|----------|----------|----------|-----------|
|  | Brass  | C |  | E | F | H | kg |
| | | G1/4 | 0630 06 13 | 9 | 17 | 42.5 | 0.050 |

This valve is delivered without calibration, but can be adjusted by inserting metal washers into the hexagon (F).

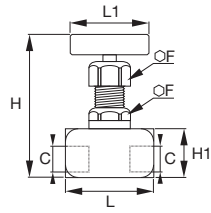
Stainless Steel Needle Valves

0591

Needle Valve, Female BSPP Thread



Stainless steel 316L, PTFE



| C | DN | | F | H min | H max | H1 | L | L1 | kg |
|------|----|----------------------------|----|----------|----------|----|----|----|-------|
| G1/8 | 3 | 0591 03 10 | 22 | 90 | 99 | 25 | 45 | 48 | 0.345 |
| G1/4 | 4 | 0591 04 13 | 22 | 90 | 99 | 25 | 50 | 48 | 0.356 |
| G3/8 | 5 | 0591 05 17 | 22 | 90 | 104 | 30 | 56 | 48 | 0.430 |
| G1/2 | 6 | 0591 06 21 | 22 | 90 | 104 | 30 | 62 | 48 | 0.483 |