

Parker Product Datasheet



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.

PART NUMBER: 0591 04 13
SHAPE: Stainless steel needle valve female
BODY MATERIAL: STAINLESS STEEL 316L
PRODUCT TYPE: Stainless Steel Needle Valves
CONNECTION 2 TUBE O.D. (MM): na
DIAMETER NOMINAL (DN): 4
CONNECTION 1 THREAD SIZE (METRIC): G1/4
CONNECTION 1 THREAD STYLE: BSPP

PRODUCT OVERVIEW

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.

Features/Benefits:

- 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

Markets:

- Packaging
- Wearing Apparel
- Lumber & Wood
- Rubber & Tire Processing
- Plastic Processing
- Water
- Rail

Applications:

- Allow/Stop Fluid Circulation on Industrial Circuits with Accuracy
- Suitable for Slightly Corrosive Industrial Fluids

Technologies:

- Pressure relief valve
- Industrial valves
- Gauge valve
- Brass needle valve
- Stainless steel needle valve

Technical Characteristics:

- Fluids:

Brass: Compressed air, water, industrial fluids, etc. Other fluids: contact us

Stainless steel: Many fluids

- Materials: zamk, nickel-plated brass or 316L stainless steel, mineral fibre, nickel-plated shot-blasted brass or stainless steel, silicone free

- Pressure:

Brass: 0 to 120 bar

Stainless steel: 0 to 400 bar

- Temperature:

Brass: -20°C to +100°C (except model 0510)

Stainless steel: -20°C to 180°C

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)

Product Types:

- In-Line Needle Valve, Female BSPP Thread
- In-Line Needle Valve, Male/Female BSPP Thread
- In-Line Needle Valve with Compression Connections
- Right-Angle Needle Valve, Female BSPP Thread
- Right-Angle Needle Valve, Male/Female BSPP Thread
- Needle Drain Valve, Male BSPP and Metric Thread
- Needle Drain Valve, Male NPT Thread
- Automatic Vent Pressure Gauge Valve, Female BSPP Thread
- Pressure Relief Valve, Male BSPP Thread
- Needle Valve, Female BSPP Thread

TECH SPECIFICATIONS

MAXIMUM OPERATING TEMPERATURE	180 °C
MAXIMUM OPERATING TEMPERATURE	356 °F
DIVISION	Low Pressure Connectors Europe Division
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MAXIMUM OPERATING PRESSURE	5802 psi
MAXIMUM OPERATING PRESSURE	40 MPa
MAXIMUM OPERATING PRESSURE	400 bar
FLOW RATE	12.58 NI/m at 6 bar (H2O)

MINIMUM OPERATING TEMPERATURE	-4 °F
MINIMUM OPERATING TEMPERATURE	-20 °C
FOR FLUID TYPE	Oil
FOR FLUID TYPE	Inert Gases
FOR FLUID TYPE	Air
FOR FLUID TYPE	Water
INDUSTRY	Industrial Manufacturing Equipment
SPECIFICATIONS MET	DI: 97/23/EC (module PED A - diameters greater than 25 mm)
REGION OF ORIGIN	Italy
CONNECTION TYPE	BSPP
APPLICATION	Textile
APPLICATION	Pneumatics
APPLICATION	Rubber Industry
APPLICATION	Water Circuits
APPLICATION	Packaging
APPLICATION	Machine Tools
BRAND	Legris
TECHNOLOGY	Process Control
TECHNOLOGY	Fluid & Gas Handling
TECHNOLOGY	Pneumatics
CONNECTION SIZE	G1/4
PRODUCT STYLE	Female Needle Valve
BODY MATERIAL	Stainless Steel 316L
PRODUCT SERIES	Stainless Steel Needle Valves
PRODUCT TYPE	Needle Valves

SLEEVE MATERIAL	Brass
O-RING MATERIAL	PTFE
SEAL MATERIAL	PTFE
WEIGHT	0.355 kg
WEIGHT	0.781 lb
MAXIMUM FLOW RATE	12.58 NL/min at 6 Bar (H2O)
MOUNTING TYPE	Inline
FUNCTION	2-way
ACTUATION TYPE	Manual
ORIFICE SIZE	4 mm
CYCLES PER LIFETIME	n/a
OPERATION TYPE	Lever-operated
CONFIGURATION	n/a
SEAT MATERIAL	n/a
HANDLE TYPE	Butterfly Lever (Stainless Steel)
QUANTITY PER BOX	1
NUMBER OF PORTS	n/a