

Parker Product Datasheet



The Parker Legris axial valve features a pneumatic actuator and can be controlled pneumatically or electro-pneumatically (with a NAMUR spool valve or solenoid valve) for integration into automated systems. It is available with or without detection.

PART NUMBER: 4222 15 21 20

SHAPE: Double acting axial valve with FKM seal female

SWITCH OPTION: Without detection

CONNECTION 1 THREAD SIZE (METRIC): Rp 1/2

LIFE CYCLE: Active

PRODUCT OVERVIEW

The Parker Legris axial valve features a pneumatic actuator and can be controlled pneumatically or electro-pneumatically (with a NAMUR spool valve or solenoid valve) for integration into automated systems. It is available with or without detection.

Features/Benefits:

- Optimisation & Safety

- Very compact: 5 times more compact than valves with separate actuators
- Simple to install: ready-to-use
- Automation of the open/close function

Increase efficiency

Real time monitoring and control for immediate adjustments

- Enhanced safety by automating hazardous tasks
- Available with detection for accurate feedback

- Anticipating failures through diagnostic and predictive maintenance
- Integration with other systems
- Comprehensive Offer
- Two seal materials for a wider chemical and temperature range
- Pneumatic or electro-pneumatic operation
- Three versions: single acting (normally closed, normally open) or double-acting
- Performance
- Full flow: low pressure drop
- Excellent pressure/temperature performance
- Compatible with many industrial fluids

Markets:

- Water Treatment
- Automotive
- Metals
- Rubber & Plastics
- Packaging
- Factory Automation
- Molding (Plastic Injection)
- Printing & Marking Equipment

Applications:

- Lubrication Circuit
- Pumping Unit

- Car Washing
- Oxygen and Nitrogen Generator
- Printing Machine
- Blow Molding (Plastic Bottles)
- Industrial Air Distribution
- Food (Utilities)
- Ceramic Industry

Technologies:

- Industrial valve
- Axial valve
- Compact valve
- Pneumatic control valve
- Electro-pneumatic control valve

Technical Characteristics:

- Fluids: depending on type of seal

FKM: water, air, oils, greases, etc.

EPDM: hot water, air, steam, etc.

- Materials: nickel-plated brass, silicone free
- Pressure: 10 bar max.
- Temperature:

-20°C to +150°C (suffix 20 FKM and suffix 30 EPDM)

-20°C to +90°C with detection

TECH SPECIFICATIONS

MAXIMUM OPERATING TEMPERATURE	302 °F
MAXIMUM OPERATING TEMPERATURE	150 °C
DIVISION	Low Pressure Connectors Europe Division
DIVISION	Low Pressure Connectors Europe Division
MAXIMUM OPERATING PRESSURE	1 MPa
MAXIMUM OPERATING PRESSURE	10 bar
MAXIMUM OPERATING PRESSURE	145.04 psi
MINIMUM OPERATING TEMPERATURE	-4 °F
MINIMUM OPERATING TEMPERATURE	-20 °C
FOR FLUID TYPE	Compressed Air
FOR FLUID TYPE	Oil
FOR FLUID TYPE	Water
INDUSTRY	Industrial Manufacturing Equipment
SPECIFICATIONS MET	REACH DI: 2006/42/EC (Machinery Directive)
SPECIFICATIONS MET	RG: 1907/2006 (REACH)
SPECIFICATIONS MET	DI: 2014/68/EU (module PED A - diameters equal or greater than 32 mm)
SPECIFICATIONS MET	DI: 2002/95/EC (RoHS)
SPECIFICATIONS MET	DI: 97/23/EC (module PED A - diameters greater than 25 mm)
SPECIFICATIONS MET	DI: 94/9/EC (ATEX) - for Pneumatic Operation Versions
REGION OF ORIGIN	Italy
CONNECTION TYPE	BSPP

SHAPE	Inline
APPLICATION	Packaging
APPLICATION	Textile
APPLICATION	Robotics
APPLICATION	Printing
APPLICATION	Rubber Industry
APPLICATION	Lubrication Circuits
APPLICATION	Safety
APPLICATION	Plastic Injection Molding
APPLICATION	Process Control
APPLICATION	Fluid Control
BRAND	Parker Legris
TECHNOLOGY	Fluid & Gas Handling
TECHNOLOGY	Pneumatics
TECHNOLOGY	Process Control
CONNECTION SIZE	Rp 1/2
BODY MATERIAL	Nickel-Plated Brass
PRODUCT TYPE	Axial Valves
O-RING MATERIAL	FKM
SEAL MATERIAL	FKM
VACUUM PRESSURE RATING	97 %
WEIGHT	1.764 lb
WEIGHT	0.800 kg
MAXIMUM FLOW RATE	6.5 Kv in m3/h
MOUNTING TYPE	Inline
FUNCTION	2-Way Double Acting
FUNCTION	Double Acting

ACTUATION TYPE	Air Pilot
ORIFICE SIZE	15 mm (NOM)
OPERATION TYPE	Electro-pneumatic Piloted
OPERATION TYPE	Pneumatic
ELECTRICAL CONNECTION	n/a
PORT CONNECTION	G 1/8
CONFIGURATION	2/2
QUANTITY PER BOX	1
MINIMUM PILOT PRESSURE	3 bar
PORT TYPE	Thread
NUMBER OF PORTS	2
MAXIMUM PILOT PRESSURE	8 bar