

# 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:** 4202 40 49 20

**SHAPE:** Normally closed axial valve with FKM seal female

**SWITCH OPTION:** Without detection

**CONNECTION 1 THREAD SIZE (METRIC):** Rp 1 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    | 145.04 psi                                                            |
| MAXIMUM OPERATING PRESSURE    | 10 bar                                                                |
| MAXIMUM OPERATING PRESSURE    | 1 MPa                                                                 |
| MINIMUM OPERATING TEMPERATURE | -4 °F                                                                 |
| MINIMUM OPERATING TEMPERATURE | -20 °C                                                                |
| FOR FLUID TYPE                | Compressed Air                                                        |
| FOR FLUID TYPE                | Water                                                                 |
| FOR FLUID TYPE                | Oil                                                                   |
| INDUSTRY                      | Industrial Manufacturing Equipment                                    |
| SPECIFICATIONS MET            | DI: 2014/68/EU (module PED A - diameters equal or greater than 32 mm) |
| SPECIFICATIONS MET            | RG: 1907/2006 (REACH)                                                 |
| SPECIFICATIONS MET            | DI: 94/9/EC (ATEX) - for Pneumatic Operation Versions                 |
| SPECIFICATIONS MET            | DI: 97/23/EC (module PED A - diameters greater than 25 mm)            |

|                               |                                            |
|-------------------------------|--------------------------------------------|
| <b>SPECIFICATIONS MET</b>     | REACH DI: 2006/42/EC (Machinery Directive) |
| <b>SPECIFICATIONS MET</b>     | DI: 2002/95/EC (RoHS)                      |
| <b>REGION OF ORIGIN</b>       | Italy                                      |
| <b>CONNECTION TYPE</b>        | BSPP                                       |
| <b>SHAPE</b>                  | Inline                                     |
| <b>APPLICATION</b>            | Printing                                   |
| <b>APPLICATION</b>            | Packaging                                  |
| <b>APPLICATION</b>            | Process Control                            |
| <b>APPLICATION</b>            | Fluid Control                              |
| <b>APPLICATION</b>            | Safety                                     |
| <b>APPLICATION</b>            | Plastic Injection Molding                  |
| <b>APPLICATION</b>            | Lubrication Circuits                       |
| <b>APPLICATION</b>            | Robotics                                   |
| <b>APPLICATION</b>            | Textile                                    |
| <b>APPLICATION</b>            | Rubber Industry                            |
| <b>BRAND</b>                  | Parker Legris                              |
| <b>TECHNOLOGY</b>             | Pneumatics                                 |
| <b>TECHNOLOGY</b>             | Fluid & Gas Handling                       |
| <b>TECHNOLOGY</b>             | Process Control                            |
| <b>CONNECTION SIZE</b>        | Rp 1-1/2                                   |
| <b>BODY MATERIAL</b>          | Nickel-Plated Brass                        |
| <b>PRODUCT TYPE</b>           | Axial Valves                               |
| <b>O-RING MATERIAL</b>        | FKM                                        |
| <b>SEAL MATERIAL</b>          | FKM                                        |
| <b>VACUUM PRESSURE RATING</b> | 97 %                                       |
| <b>WEIGHT</b>                 | 3.600 kg                                   |
| <b>WEIGHT</b>                 | 7.937 lb                                   |

|                               |                            |
|-------------------------------|----------------------------|
| <b>MAXIMUM FLOW RATE</b>      | 46 Kv in m3/h              |
| <b>MOUNTING TYPE</b>          | Inline                     |
| <b>FUNCTION</b>               | 2-Way Normally Closed (NC) |
| <b>FUNCTION</b>               | Normally Closed (NC)       |
| <b>ACTUATION TYPE</b>         | Air Pilot                  |
| <b>ORIFICE SIZE</b>           | 40 mm (NOM)                |
| <b>OPERATION TYPE</b>         | Pneumatic                  |
| <b>OPERATION TYPE</b>         | Electro-pneumatic Piloted  |
| <b>ELECTRICAL CONNECTION</b>  | n/a                        |
| <b>PORT CONNECTION</b>        | G 1/8                      |
| <b>CONFIGURATION</b>          | 2/2                        |
| <b>QUANTITY PER BOX</b>       | 1                          |
| <b>MINIMUM PILOT PRESSURE</b> | 4.2 bar                    |
| <b>PORT TYPE</b>              | Thread                     |
| <b>NUMBER OF PORTS</b>        | 2                          |
| <b>MAXIMUM PILOT PRESSURE</b> | 8 bar                      |