

Axial Valves



This valve is equipped with a pneumatic or electro-pneumatic actuator, so it can be integrated into simple automated systems.

Technical Characteristics

- **Compatible Fluids:** Compressed air, water, industrial fluids...
Other fluids: please consult us
- **Working Pressure:** 10 bar max.
- **Pilot Pressure:** NC and NO: 4.2 to 8 bar
Double-acting: 3 to 8 bar
- **Working Temperature:** -20°C to +150°C (suffix 20 FKM)
-20°C to +150°C (suffix 30 EPDM)

Reliable performance is dependent upon the type of fluid conveyed, component materials and tubing being used.

Guaranteed for use with a vacuum of 740 mm Hg (97% vacuum).

Advantages

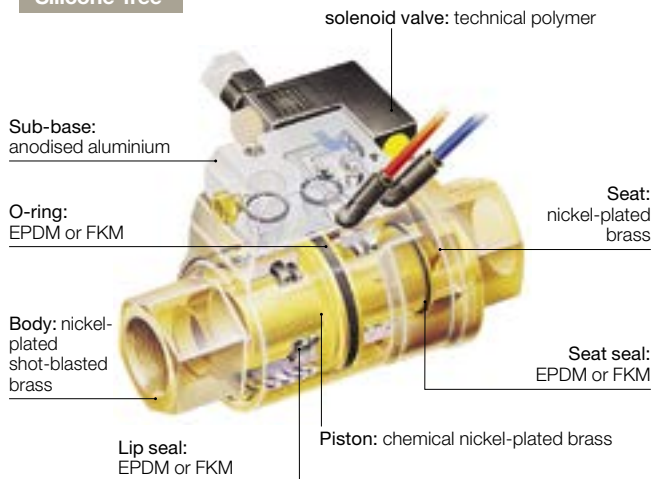
- Very compact
- Simple to install: ready-to-use
- Two seal materials (FKM, EPDM) for a wider chemical and temperature range
- Pneumatic or electro-pneumatic
- Three versions: normally closed, normally open and double-acting

Regulations

- PED
- REACH
- RoHS

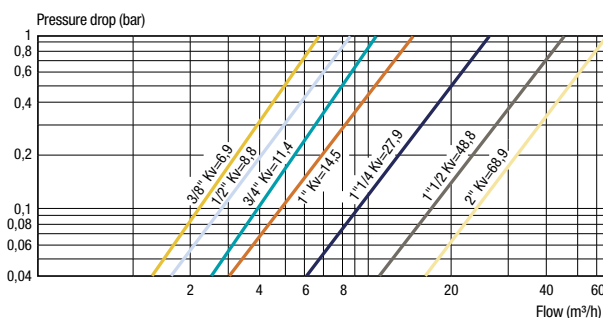
Component Materials

Silicone-free



Flow Curve and Pressure Drop (Kv)

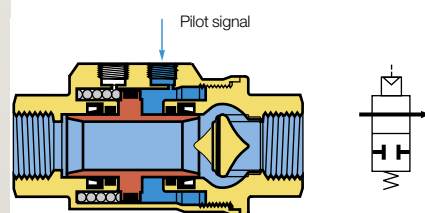
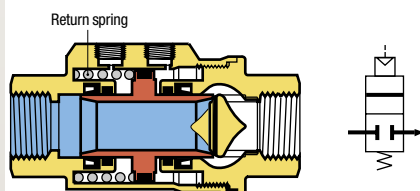
Kv in m³/h (ambient water temperature, under a differential pressure of 1 bar)



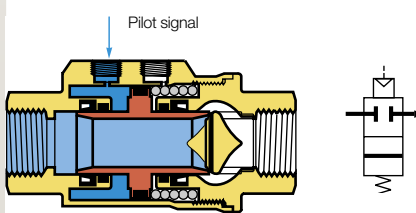
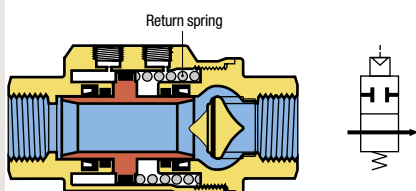
Operation

Depending on operational requirement, air is passed into the actuation chamber to open or close the valve.

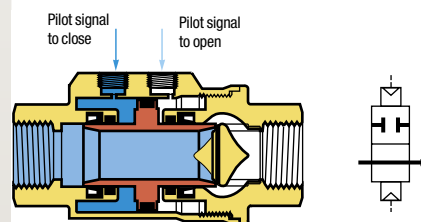
Normally Closed Axial Valve (NC)



Normally Open Axial Valve (NO)



Double-Acting Axial Valve (DA)



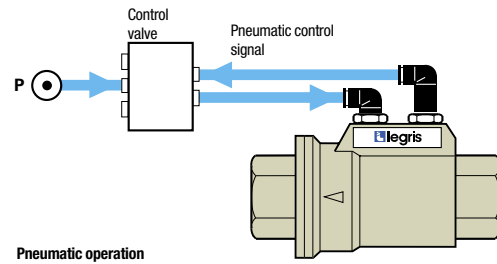
Installation Options

The Parker Legris axial valve offers 3 different control methods dependant on the requirements of the installation:

Pneumatic Control

Example: Double-acting axial valve 4222

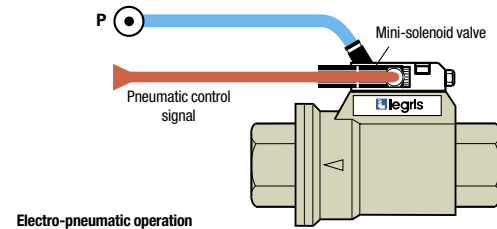
- local compressed air control
- for repetitive on/off cycles
- remote control where access to the machine is difficult
- for explosive or explosion prevention areas



Electro-Pneumatic Control

Example: Normally closed axial valve 4202 + sub-base and Mini-solenoid valve 4298

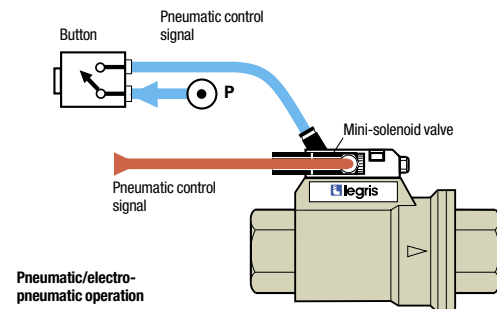
- for automated industrial systems requiring remote control
- Namur seating plane solenoid valve



Dual Pneumatic and Electro-Pneumatic Control

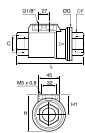
Example: Normally open axial valve 4212 + sub-base and Mini-solenoid valve 4298 + Pneumatic push-button 4299

- dual control structure
- for increased safety: prevents localised operating errors
- Namur seating plane solenoid valve



4202..20 Normally Closed Axial Valve with FKM Seal, Female BSPP Thread

Nickel-plated brass, FKM



C		F	G	H	H1	L	Kg
G3/8	4202 10 17 20	22	46	54	31	98	0.834
G1/2	4202 15 21 20	27	52	60	35	112	1.075
G3/4	4202 20 27 20	33	64	70	38	135	1.624
G3/4	4202 20 27 30	33	64	70	38	135	1.606
G1	4202 25 34 20	41	69	76	41.5	143	2.033
G1 1/4	4202 32 42 20*	50	86	91	48	165	3.266
G1 1/2	4202 40 49 20*	60	96	102	54	180	4.195
G2	4202 50 48 20*	75	109	115	60.5	207	6.465

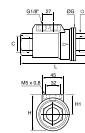
Pilot port: G1/8

Delivered with a silencer

*Models with EC marking

4202..30 Normally Closed Axial Valve with EPDM seal, Female BSPP Thread

Nickel-plated brass, EPDM



C		F	G	H	H1	L	Kg
G3/8	4202 10 17 30	22	46	54	31	98	0.818
G1/2	4202 15 21 30	27	52	60	35	112	1.071
G1	4202 25 34 30	41	69	76	41.5	143	2.013
G1 1/4	4202 32 42 30*	50	86	91	48	165	3.315
G1 1/2	4202 40 49 30*	60	96	102	54	180	4.195
G2	4202 50 48 30*	75	109	115	60.5	207	6.360

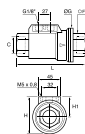
Pilot port: G1/8

Delivered with a silencer

*Models with EC marking

4212..20 Normally Open Axial Valve with FKM Seal, Female BSPP Thread

Nickel-plated brass, FKM



C		F	G	H	H1	L	Kg
G3/8	4212 10 17 20	22	46	54	31	98	0.824
G1/2	4212 15 21 20	27	52	60	35	112	1.096
G3/4	4212 20 27 20	33	64	70	38	135	1.637
G1	4212 25 34 20	41	69	76	41.5	143	2.025
G1 1/2	4212 40 49 20*	60	96	102	54	180	4.188
G2	4212 50 48 20*	75	109	115	60.5	207	6.555

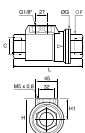
Pilot port: G1/8

Delivered with a silencer

*Models with EC marking

4222..20 Double-Acting Axial Valve with FKM Seal, Female BSPP Thread

Nickel-plated brass, FKM



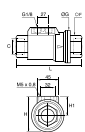
C		F	G	H	H1	L	Kg
G3/8	4222 10 17 20	22	46	54	31	98	0.802
G1/2	4222 15 21 20	27	52	60	35	112	1.042
G3/4	4222 20 27 20	33	64	70	38	135	1.571
G1	4222 25 34 20	41	69	76	41.5	143	1.942
G1 1/2	4222 40 49 20*	60	96	102	54	180	3.995
G2	4222 50 48 20*	75	109	115	60.5	207	6.275

Pilot port: G1/8

*Models with EC marking

4222..30 Double Acting Axial Valve with EPDM seal, Female BSPP Thread

Nickel-plated brass, EPDM



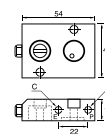
C		F	G	H	H1	L	Kg
G1/2	4222 15 21 30	27	52	60	35	112	1.046
G1 1/4	4222 32 42 30*	50	86	91	48	165	3.301

Pilot port: G1/8

*Models with EC marking

4298 Sub-Base for Solenoid Pilot Valve

Treated aluminium, NBR



C		Kg
M5x0.8	4298 00 01	0.095

The sub-base is fitted directly to the axial valve and allows the mounting of a 15x15 solenoid valve.

Supplied with 2 fixing bolts, silencer and seats.

4298 Mini-Solenoid Valve 1W/12VA

Anodized aluminium



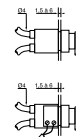
	Voltage	Kg
4298 01 01	24V = CC*	0.051
4298 01 02	24V ~ CA**	0.058
4298 02 01	110V ~ CA**	0.051
4298 02 02	220V ~ CA**	0.054

*Direct current

**Alternating current

4299 Pneumatic Button

Nickel-plated brass, technical polymer



	Contact	Kg
4299 01 01		0.090

Bulkhead fixing hole diameter: Ø22 mm