

Axial Valves

The Parker Legris axial valve is the only valve to incorporate both the **valve and actuation function**. With pneumatic or electro-pneumatic control, it avoids many of the restrictions associated with traditional actuators.

Product Advantages

Optimisation & Safety

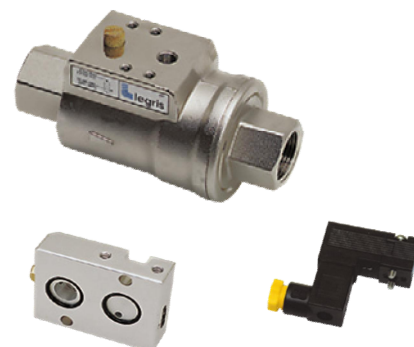
Very compact: up to 50% smaller than valves with separate actuators
Simple to install: ready-to-use
Common sub-base for solenoid control
Automation of the open/close function
Operation independent of the upstream and downstream pressure in the circuit

Comprehensive Offer

Two seal materials for a wider chemical and temperature range
Pneumatic, electro-pneumatic or dual actuation control
Three versions: normally closed, normally open and double-acting

Performance

Full flow: low pressure drop
Excellent pressure/temperature performance
Compatible with many industrial fluids



Flow Control
Plastic Injection Moulding
Rubber Industry
Pneumatics
Textile
Printing
Packaging
Robotics

Applications

Technical Characteristics

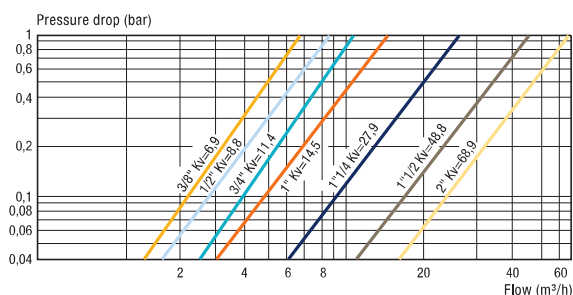
Compatible Fluids	Depending on type of seal – FKM: water, air, oils, greases, etc. – EPDM: hot water, air, steam, etc.
Working Pressure	10 bar max.
Pilot Pressure	NC and NO: 4.2 to 8 bar Double-acting: 3 to 8 bar
Working Temperature	-20°C to +135°C (suffix 20 FKM) -20°C to +120°C (suffix 30 EPDM)

Tightening Torques	Threads	G3/8	G1/2	G3/4	G1	G1¼	G1½	G2
	daN.m	0.15 to 0.25	0.20 to 0.35	0.50 to 0.70	0.50 to 0.70	0.40 to 0.60	0.80 to 1.20	0.80 to 1.20

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).

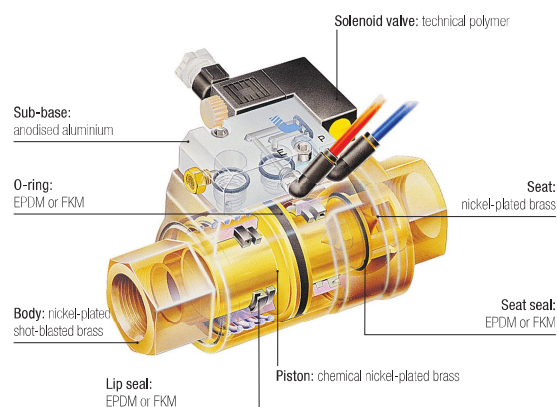
Flow Curve and Pressure Drop (Kv)

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



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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)
DI: 94/9/EC (ATEX) - for pneumatic operation versions

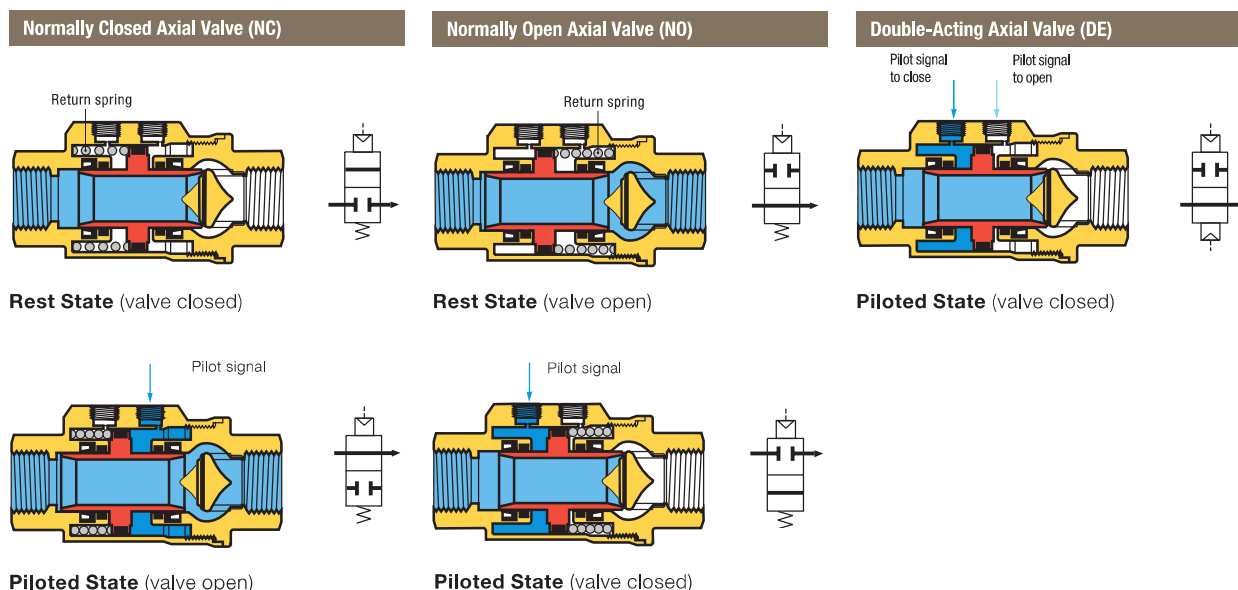
ARA
PNEUMATIK
53-012 Wrocław tel. 71 364 72 82
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Axial Valves

Operation

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



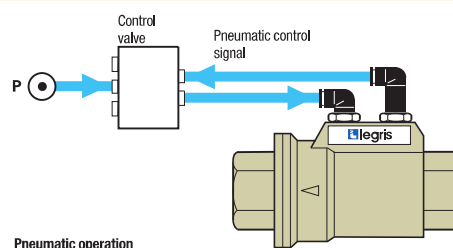
Installation Options

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

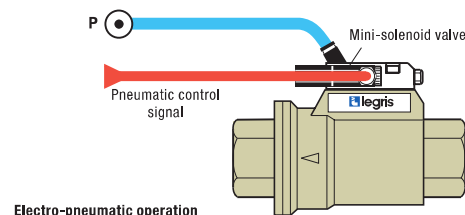
- local compressed air control
- for repetitive on/off cycles
- remote control where access to the machine is difficult
- for explosive or explosion prevention areas



Electro-Pneumatic Control

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

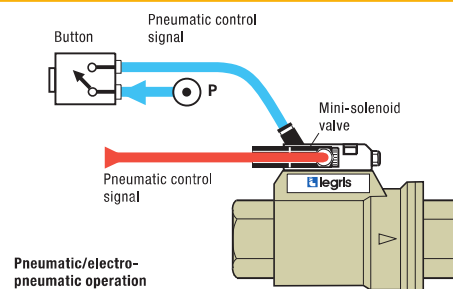
- for automated industrial systems requiring remote control
- Namur seating plane solenoid valve



Dual Pneumatic and Electro-Pneumatic Control

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

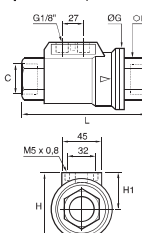
- dual control structure
- for increased safety: prevents localised operating errors
- Namur seating plane solenoid valve



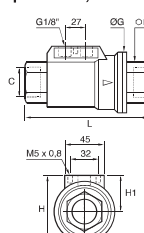
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Axial Valves

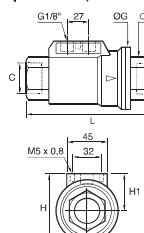
4202..20 Normally Closed Axial Valve with FKM Seal, Female BSPP Thread

	Nickel-plated brass, FKM 	C	F	G	H	H1	L	kg	
		G3/8	4202 10 17 20	22	46	54	31	98	0.815
		G1/2	4202 15 21 20	27	52	60	35	112	1.092
		G3/4	4202 20 27 20	33	64	70	38	135	1.624
		G1	4202 25 34 20	41	69	76	41.5	143	2.033
		G1¼	4202 32 42 20*	50	86	91	48	165	3.266
		G1½	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 CE marking									

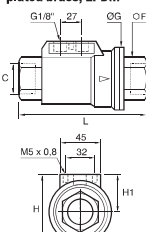
4202..30 Normally Closed Axial Valve with EPDM Seal, Female BSPP Thread

	Nickel-plated brass, EPDM 	C	F	G	H	H1	L	kg	
		G3/8	4202 10 17 30	22	46	54	31	98	0.828
		G1/2	4202 15 21 30	27	52	60	35	112	1.098
		G3/4	4202 20 27 30	33	64	70	38	135	1.624
		G1	4202 25 34 30	41	69	76	41.5	143	1.998
		G1¼	4202 32 42 30*	50	86	91	48	165	3.315
		G1½	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 CE 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	0.829
		G1/2	4212 15 21 20	27	52	60	35	112	1.100
		G3/4	4212 20 27 20	33	64	70	38	135	1.637
		G1	4212 25 34 20	41	69	76	41.5	143	2.037
		G1¼	4212 32 42 20*	50	86	91	48	165	0.030
		G1½	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 CE marking									

4212..30 Normally Open Axial Valve with EPDM seal, Female BSPP Thread

	Nickel-plated brass, EPDM 	C	F	G	H	H1	L	kg	
		G3/8	4212 10 17 30	22	46	54	31	98	0.827
		G1/2	4212 15 21 30	27	52	60	35	112	1.152
		G3/4	4212 20 27 30	33	64	70	38	135	1.575
		G1	4212 25 34 30	41	69	76	41.5	143	2.055
		G1¼	4212 32 42 30*	50	86	91	48	165	3.301
		G1½	4212 40 49 30*	60	96	102	54	180	4.775
		G2	4212 50 48 30*	75	109	115	60.5	207	6.360
Pilot port: G1/8 - Delivered with a silencer									
*Models with CE marking									

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

Nickel-plated brass, FKM

C

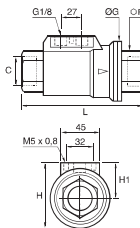
		F	G	H	H1	L	kg
G3/8	4222 10 17 20	22	46	54	31	98	0.802
G1/2	4222 15 21 20	27	52	60	35	112	1.063
G3/4	4222 20 27 20	33	64	70	38	135	1.572
G1	4222 25 34 20	41	69	76	41.5	143	1.942
G1¼	4222 32 42 20*	50	86	91	48	165	3.058
G1½	4222 40 49 20*	60	96	102	54	180	3.995
G2	4222 50 48 20*	75	109	115	60.5	207	6.275

Pilot port: G1/8

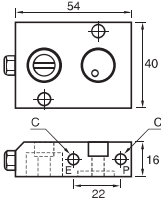
*Models with CE marking

Axial Valves

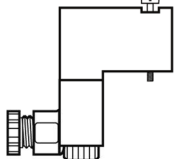
4222..30 Double Acting Axial Valve with EPDM seal, Female BSPP Thread

	Nickel-plated brass, EPDM 	C	F	G	H	H1	L	kg	
		G3/8	4222 10 17 30	22	46	54	31	98	0.832
		G1/2	4222 15 21 30	27	52	60	35	112	1.046
		G3/4	4222 20 27 30	33	64	70	38	135	1.662
		G1	4222 25 34 30	41	69	76	41.5	143	1.938
		G1¼	4222 32 42 30*	50	86	91	48	165	3.301
		G1½	4222 40 49 30*	60	96	102	54	180	4.260
		G2	4222 50 48 30*	75	109	115	60.5	207	6.520
Pilot port: G1/8 Delivered with a silencer *Models with CE marking									

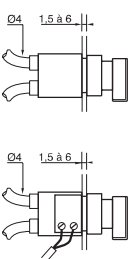
4298 Sub-Base for Solenoid Pilot Valve

	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 seals.		

4298 Mini-Solenoid Valve 1W/12VA

		Anodised aluminium	
		Voltage	
		24V $\overline{\text{---}}$ CC*	4298 01 01
		24V $\sim$ CA**	4298 01 02
		110V $\sim$ CA**	4298 02 01
		220V $\sim$ CA**	4298 02 02
*Direct current			
**Alternating current			

4299 Pneumatic Button/Electro-Pneumatic

	Nickel-plated brass 	Contact	kg
		Standard*	4299 01 010.085
		With key*	4299 01 020.110
		Standard**	4299 02 010.102
		With key**	4299 02 020.124
		Bulkhead fixing hole diameter: Ø22 mm *1 pneumatic contact **1 electro-pneumatic contact Available upon request only	

