

Parker Angle Seat Valves

Introduction

An angle seat valve is actuated by a pneumatically driven piston and is capable to handle slurry solutions with particles or corrosive solutions at high temperature up to 180°C and operating pressure up to 16 Bar.

Benefits

- Compact design, high flow rates
- Visual position indicator
- For temperatures from -10°C to 180°C
- Working pressures up to 16 Bar
- Dampened closing anti-water hammer design (fluid under seat)
- Stainless Steel actuator housing for exceptional durability in steam and aggressive applications
- Valves meeting Pressure Equipment Directive 97/23/EC
- Mountable in any position
- Tight shut-off and Long Service Life
- Parker Angle Seat Valves conform to the terms of the 94/9/CE directive specific to non electrical equipment for use within potentially explosive environments - zones 1/21 and 2/22

Applications

Angle seat valves are suitable for many process and industrial applications:

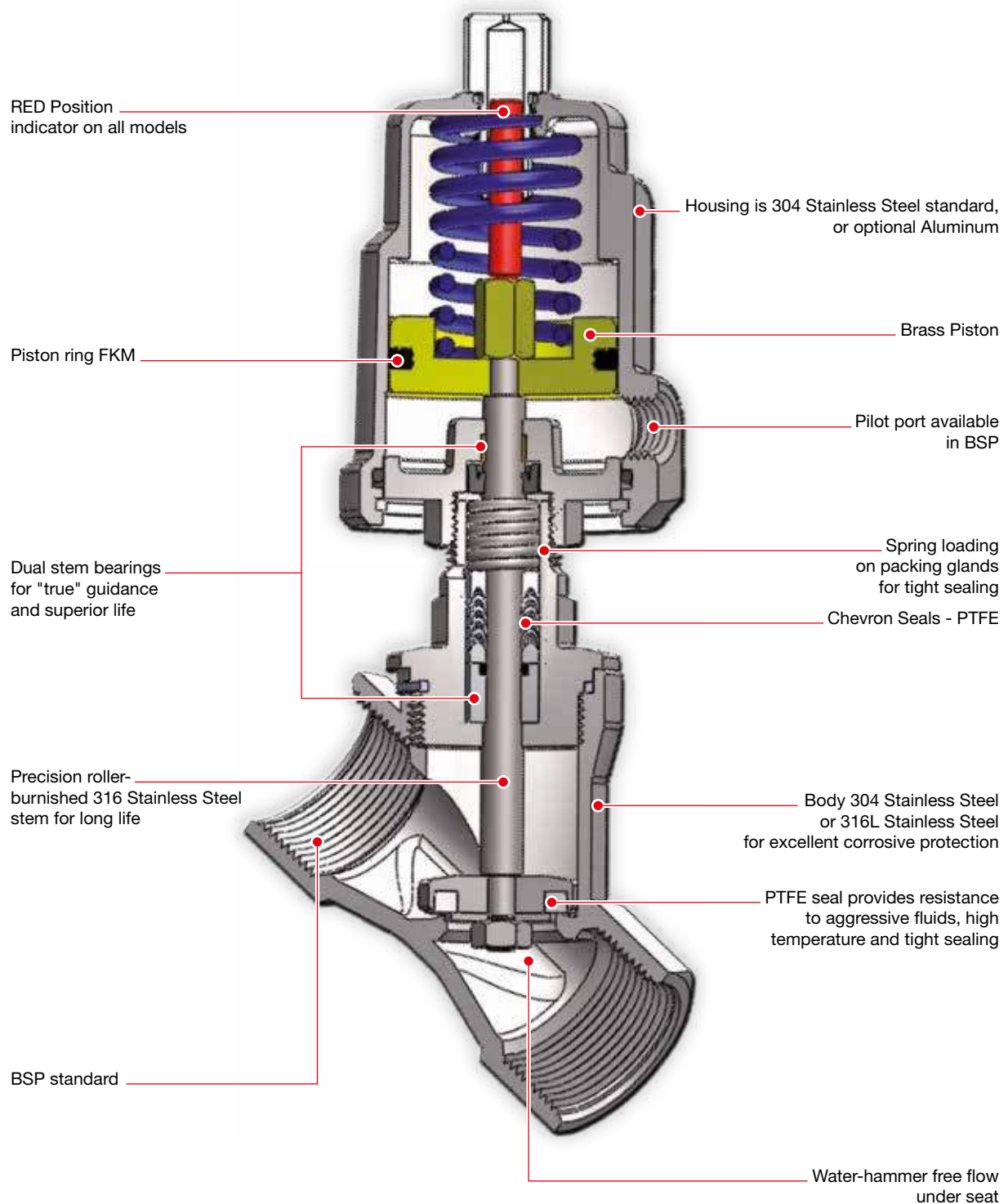
- Food and Beverage Processing
- Water Technology & Treatment
- Textile Industry
- Cooling systems on injection molding machines
- Pharmaceutical & cosmetic industry
- Chemical Process technology
- Refrigeration & Cooling heat exchangers
- Sterilizers steam supply
- Water applications: Mining, Cement / Concrete Systems, Pulp & Paper
- General industrial applications of aggressive fluids
- Industrial Laundry Equipment
- Industrial Air Dryers



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Key Features



General Specifications

PA Series, 2/2 Way, NC or NO 3/8" to 2 1/2" BSP, 16 bar

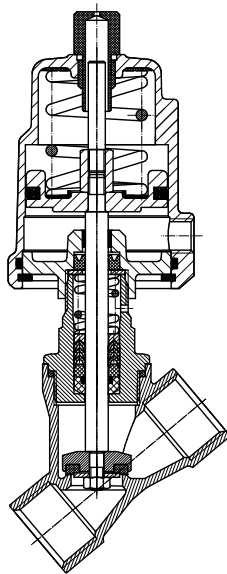


- Body Material 304 Stainless Steel or 316 Stainless Steel
- Actuator Material 304 Stainless Steel, or Aluminum
- Function 2/2 NC, NO, NC (anti-water hammer)
- Port size from DN 10 (3/8") to DN 65 (2 1/2")
- Connections: Threads BSP
- Max Working Pressure 16 Bar
- Flow factor KV from 4.7 m³/h (DN10) to 70 m³/h (DN 65)
- The PA Series angle seat valves comply with European Pressure Equipment Directive 97/23/EC
- Parker Angle Seat Valves conform to the terms of the 94/9/CE directive specific to non electrical equipment for use within potentially explosive environments - Zones 1/21 and 2/22 - Protection II 2 GD c TX
- Pilot Pressure 3 Bar min to 10 Bar according to control pressure charts
- Maximum Fluid Temp -10°C to 180°C
- Ambient Temperature -10°C to 60°C
- Seat Seal material PTFE/RTFE
- Packing Gland: PTFE and PTFE with Carbon
- Installation Any Position
- Optical Position Indicator Standard on all sizes
- Pilot Control Media Air, Neutral Gas
- Fluids handled: Inert gases, hot water, oils, steam, aggressive and corrosive fluids
- Weight from 0.58 Kg (DN10) to 8.65 Kg (DN 65)
- Viscosity: Maxi. 600 mm²/s (600cSt, 80° E, 2700 SSU)

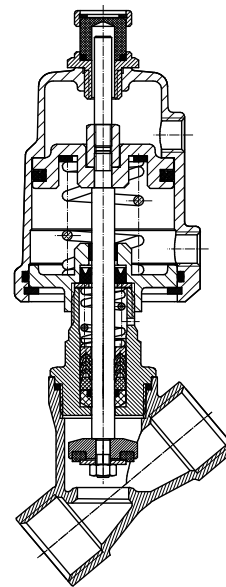
For liquids, use versions with flow direction under the seat.

Accessories

- Spare Parts Kits are available for main seat and body gasket replacement (on request)
- 3 Way Direct Acting AC & DC Pilot Control Valves available as separate components



Normally Closed Valve



Normally Open Valve

PA Series - Normally Closed Valves

Flow Direction OVER Seat

Model Numbers Shown are BSP threads

304 Stainless Steel Actuators
with 304 Stainless Steel Bodies

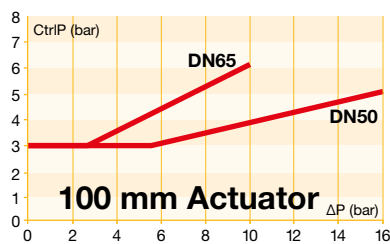
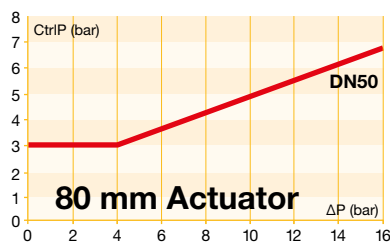
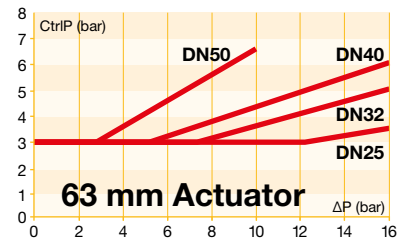
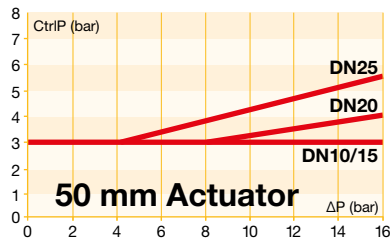
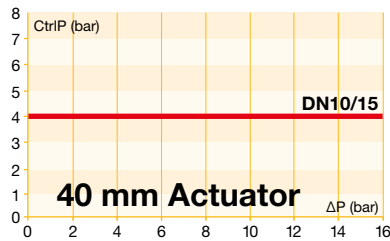


Size	Port Size	Orifice mm	Actuator mm	KV m ³ /h	Operating Pressure Differential bar	Minimum Pilot Control Pressure Range bar	Model Number	Net Weight Kg
DN10	3/8"	13	40	4.7	0-16	4	PA10S1G3S040S	0.78
			50	4.7	0-16	3	PA10S1G3S050S	1.01
DN15	1/2"	13	40	4.7	0-16	4	PA15S1G4S040S	0.80
			50	4.7	0-16	3	PA15S1G4S050S	1.03
DN20	3/4"	18	50	9.0	0-16	3-4	PA20S1G5S050S	1.06
DN25	1"	24	50	16.0	0-16	3-5.5	PA25S1G6S050S	1.38
			63	16.0	0-16	3-3.5	PA25S1G6S063S	2.05
DN32	1-1/4"	31	63	24.0	0-16	3-5	PA32S1G7S063S	2.40
DN40	1-1/2"	35	63	32.0	0-16	3-6	PA40S1G8S063S	2.75
DN50	2"	45	63	50.0	0-10	3-6.5	PA50S1G9S063S	3.50
			80	50.0	0-16	3-6.6	PA50S1G9S080S	4.62
			100	50.0	0-16	3-5	PA50S1G9S100S	5.16
DN65	2-1/2"	65	100	70.0	0-10	3-6	PA65S1GTS100S	8.65

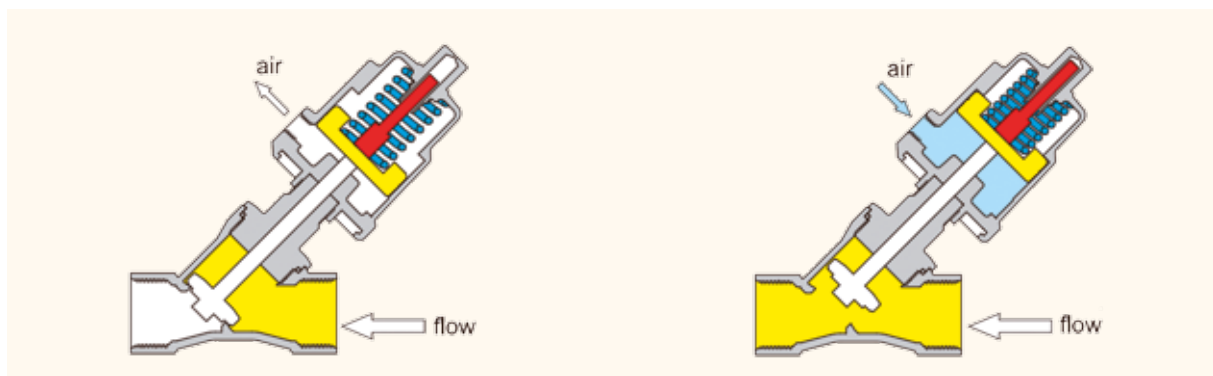
304 Stainless Steel Actuators
with 316L Stainless Steel Bodies

Size	Port Size	Orifice mm	Actuator mm	KV m ³ /h	Operating Pressure Differential bar	Minimum Pilot Control Pressure Range bar	Model Number	Net Weight Kg
DN10	3/8"	13	40	4.7	0-16	4	PA10S1G3R040S	0.78
			50	4.7	0-16	3	PA10S1G3R050S	1.01
DN15	1/2"	13	40	4.7	0-16	4	PA15S1G4R040S	0.80
			50	4.7	0-16	3	PA15S1G4R050S	1.03
DN20	3/4"	18	50	9.0	0-16	3-4	PA20S1G5R050S	1.06
DN25	1"	24	50	16.0	0-16	3-5.5	PA25S1G6R050S	1.38
			63	16.0	0-16	3-3.5	PA25S1G6R063S	2.05
DN32	1-1/4"	31	63	24.0	0-16	3-5	PA32S1G7R063S	2.40
DN40	1-1/2"	35	63	32.0	0-16	3-6	PA40S1G8R063S	2.75
DN50	2"	45	63	50.0	0-10	3-6.5	PA50S1G9R063S	3.50
			80	50.0	0-16	3-6.6	PA50S1G9R080S	4.62
			100	50.0	0-16	3-5	PA50S1G9R100S	5.16
DN65	2-1/2"	65	100	70.0	0-10	3-6	PA65S1GTR100S	8.65

Control Pressure & Operating Pressure Charts for the Normally Closed Valves with 304 Stainless Steel Actuators



Flow Diagram



Valve Closed

Valve Open

PA Series - Normally Closed Valves Flow Direction OVER Seat

Model Numbers Shown are BSP threads

Aluminium Actuators
with 304 Stainless Steel Bodies

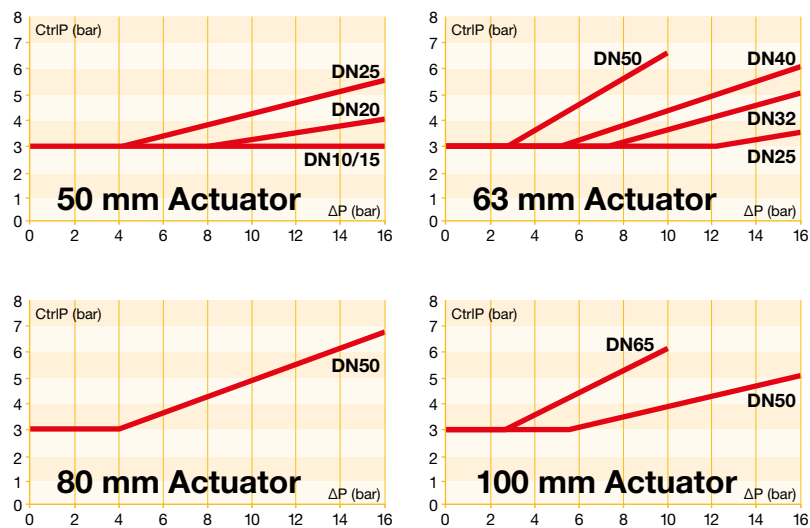


Size	Port Size	Orifice mm	Actuator mm	KV m ³ /h	Operating Pressure Differential bar	Minimum Pilot Control Pressure Range bar	Model Number	Net Weight Kg
DN10	3/8"	13	50	4.7	0-16	3	PA10S1G3S050A	0.75
DN15	1/2"	13	50	4.7	0-16	3	PA15S1G4S050A	0.80
DN20	3/4"	18	50	9.0	0-16	3-4	PA20S1G5S050A	0.90
DN25	1"	24	50	16.0	0-16	3-5.5	PA25S1G6S050A	1.27
			63	16.0	0-16	3-4	PA25S1G6S063A	1.65
DN32	1-1/4"	31	63	24.0	0-16	3-5.5	PA32S1G7S063A	1.89
DN40	1-1/2"	35	63	32.0	0-16	3-6.5	PA40S1G8S063A	2.15
DN50	2"	45	63	50.0	0-10	3-6.5	PA50S1G9S063A	2.98
			80	50.0	0-16	3-6.6	PA50S1G9S080A	3.56
			100	50.0	0-16	3-5	PA50S1G9S100A	4.75
DN65	2-1/2"	65	100	70.0	0-10	3-6	PA65S1GTS100A	5.50

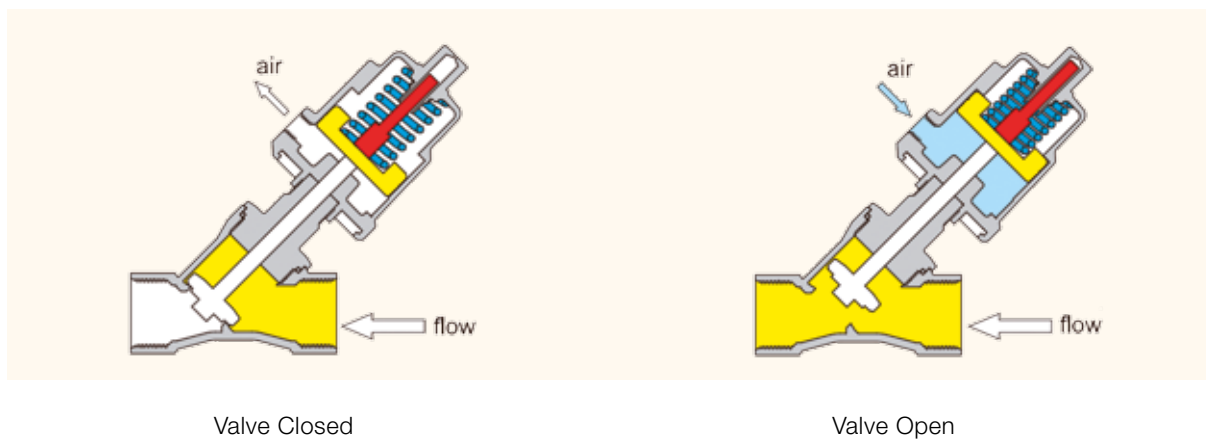
Aluminium Actuators
with 316L Stainless Steel Bodies

Size	Port Size	Orifice mm	Actuator mm	KV m ³ /h	Operating Pressure Differential bar	Minimum Pilot Control Pressure Range bar	Model Number	Net Weight Kg
DN10	3/8"	13	50	4.7	0-16	3	PA10S1G3R050A	0.75
DN15	1/2"	13	50	4.7	0-16	3	PA15S1G4R050A	0.80
DN20	3/4"	18	50	9.0	0-16	3-4	PA20S1G5R050A	0.90
DN25	1"	24	50	16.0	0-16	3-5.5	PA25S1G6R050A	1.27
			63	16.0	0-16	3-4	PA25S1G6R063A	1.65
DN32	1-1/4"	31	63	24.0	0-16	3-5.5	PA32S1G7R063A	1.89
DN40	1-1/2"	35	63	32.0	0-16	3-6.5	PA40S1G8R063A	2.15
DN50	2"	45	63	50.0	0-10	3-6.5	PA50S1G9R063A	2.98
			80	50.0	0-16	3-6.6	PA50S1G9R080A	3.56
			100	50.0	0-16	3-5	PA50S1G9R100A	4.75
DN65	2-1/2"	65	100	70.0	0-10	3-6	PA65S1GTR100A	5.50

Control Pressure & Operating Pressure Charts for the Normally Closed Valves with Aluminum Actuators



Flow Diagram



PA Series - Normally Open Valves

Flow Direction OVER Seat

Model Numbers Shown are BSP threads

304 Stainless Steel Actuators
with 304 Stainless Steel Bodies



Size	Port Size	Orifice mm	Actuator mm	KV m ³ /h	Operating Pressure Differential bar	Minimum Pilot Control Pressure bar	Model Number	Net Weight Kg
DN10	3/8"	13	50	4.7	0-16	3.5	PA10S2G3S050S	1.00
DN15	1/2"	13	50	4.7	0-16	3.5	PA15S2G4S050S	1.03
DN20	3/4"	18	50	9.0	0-16	3.5	PA20S2G5S050S	1.06
DN25	1"	24	63	16.0	0-16	4.5	PA25S2G6S063S	2.05
DN32	1-1/4"	31	63	24.0	0-14	4.5	PA32S2G7S063S	2.40
DN40	1-1/2"	35	63	32.0	0-11	4.5	PA40S2G8S063S	2.75
DN50	2"	45	63	50.0	0-6	5	PA50S2G9S063S	3.50
			80	50.0	0-12	5	PA50S2G9S080S	4.62

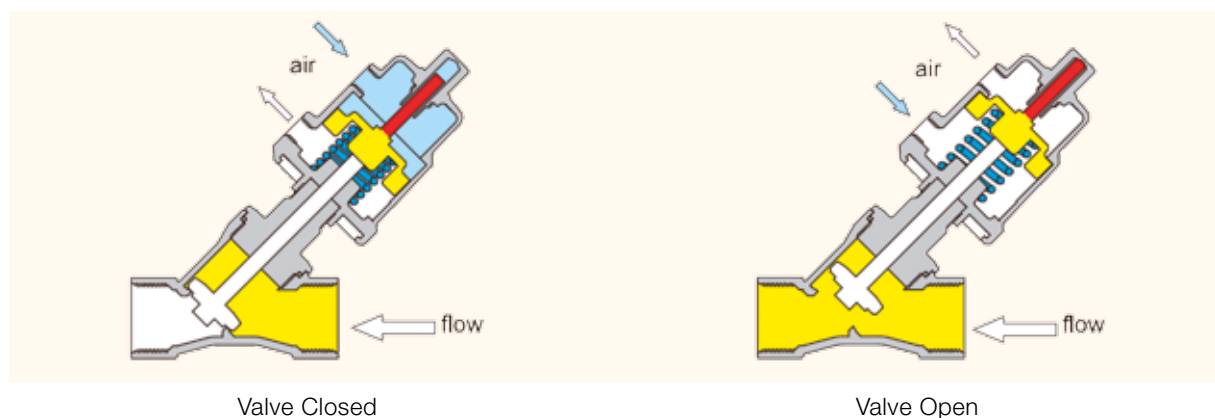
304 Stainless Steel Actuators
with 316L Stainless Steel Bodies

Size	Port Size	Orifice mm	Actuator mm	KV m ³ /h	Operating Pressure Differential bar	Minimum Pilot Control Pressure bar	Model Number	Net Weight Kg
DN10	3/8"	13	50	4.7	0-16	3.5	PA10S2G3R050S	1.00
DN15	1/2"	13	50	4.7	0-16	3.5	PA15S2G4R050S	1.03
DN20	3/4"	18	50	9.0	0-16	3.5	PA20S2G5R050S	1.06
DN25	1"	24	63	16.0	0-16	4.5	PA25S2G6R063S	2.05
DN32	1-1/4"	31	63	24.0	0-14	4.5	PA32S2G7R063S	2.40
DN40	1-1/2"	35	63	32.0	0-11	4.5	PA40S2G8R063S	2.75
DN50	2"	45	63	50.0	0-6	5	PA50S2G9R063S	3.50
			80	50.0	0-12	5	PA50S2G9R080S	4.62

Control Pressure & Operating Pressure

Charts do not apply for Normally Open Valves. A minimum pressure as noted above is all that is required, up to 10 bar Maximum.

Flow Diagram



PA Series - Normally Closed Valves

Flow Direction UNDER Seat

Anti Water Hammer Construction

Model Numbers Shown are BSP threads

304 Stainless Steel Actuators
with 304 Stainless Steel Bodies

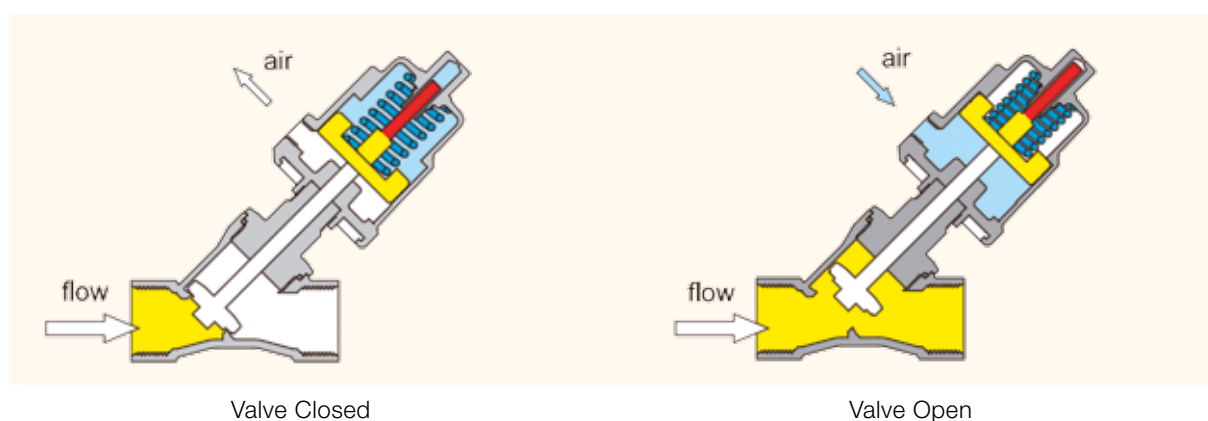


Size	Port Size	Orifice mm	Actuator mm	KV m ³ /h	Operating Pressure Differential bar	Minimum Pilot Control Pressure bar	Model Number	Net Weight Kg
DN10	3/8"	13	50	4.7	0-16	4.5	PA10SAG3S050S	1.01
DN15	1/2"	13	50	4.7	0-16	4.5	PA15SAG4S050S	1.03
DN20	3/4"	18	50	9.0	0-10	4.5	PA20SAG5S050S	1.06
DN25	1"	24	63	16.0	0-8	4.5	PA25SAG6S063S	2.05
DN32	1-1/4"	31	80	24.0	0-11	4	PA32SAG7S080S	3.82
DN40	1-1/2"	35	80	32.0	0-8	4	PA40SAG8S080S	4.07
			100	32.0	0-16	4	PA40SAG8S100S	4.61
DN50	2"	45	100	50.0	0-9	4	PA50SAG9S100S	5.16

304 Stainless Steel Actuators
with 316L Stainless Steel Bodies

Size	Port Size	Orifice mm	Actuator mm	KV m ³ /h	Operating Pressure Differential bar	Minimum Pilot Control Pressure bar	Model Number	Net Weight Kg
DN10	3/8"	13	50	4.7	0-16	4.5	PA10SAG3R050S	1.01
DN15	1/2"	13	50	4.7	0-16	4.5	PA15SAG4R050S	1.03
DN20	3/4"	18	50	9.0	0-10	4.5	PA20SAG5R050S	1.06
DN25	1"	24	63	16.0	0-8	4.5	PA25SAG6R063S	2.05
DN32	1-1/4"	31	80	24.0	0-11	4	PA32SAG7R080S	3.82
DN40	1-1/2"	35	80	32.0	0-8	4	PA40SAG8R080S	4.07
			100	32.0	0-16	4	PA40SAG8R100S	4.61
DN50	2"	45	100	50.0	0-9	4	PA50SAG9R100S	5.16

Flow Diagram



PA Series - Normally Closed Valves

Flow Direction UNDER Seat

Anti Water Hammer Construction

Model Numbers Shown are BSP threads



Aluminum Actuators
with 304 Stainless Steel Bodies



Size	Port Size	Orifice mm	Actuator mm	KV m³/h	Operating Pressure Differential bar	Minimum Pilot Control Pressure bar	Model Number	Net Weight Kg
DN10	3/8"	13	50	4.7	0-16	4.5	PA10SAG3S050A	0.75
DN15	1/2"	13	50	4.7	0-16	4.5	PA15SAG4S050A	0.80
DN20	3/4"	18	50	9.0	0-10	4.5	PA20SAG5S050A	0.90
DN25	1"	24	63	16.0	0-8	4.5	PA25SAG6S063A	1.65
DN32	1-1/4"	31	80	24.0	0-11	4	PA32SAG7S080A	2.80
DN40	1-1/2"	35	80	32.0	0-8	4	PA40SAG8S080A	3.10
			100	32.0	0-16	4	PA40SAG8S100A	4.15
DN50	2"	45	100	50.0	0-9	4	PA50SAG9S100A	4.75

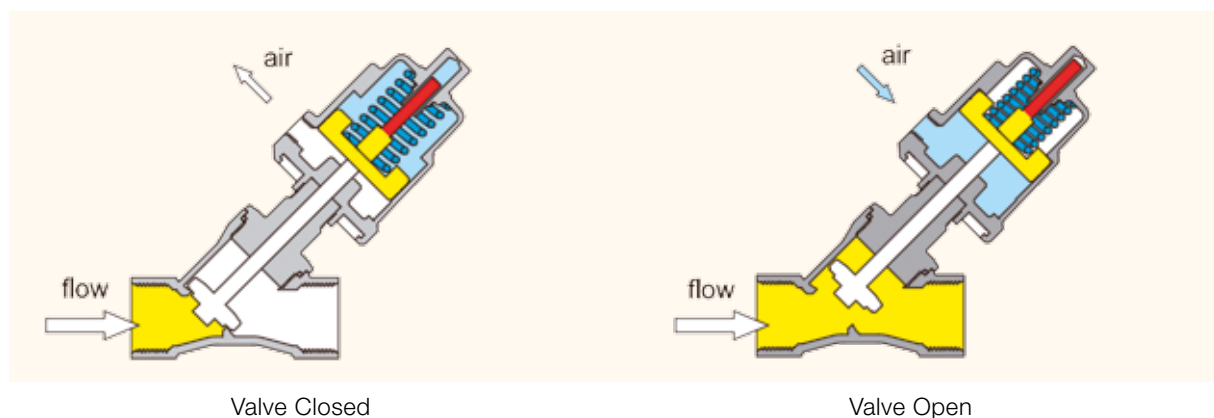
Aluminum Actuators with 316L Stainless Steel Bodies

Size	Port Size	Orifice mm	Actuator mm	KV m³/h	Operating Pressure Differential bar	Minimum Pilot Control Pressure bar	Model Number	Net Weight Kg
DN10	3/8"	13	50	4.7	0-16	4.5	PA10SAG3R050A	0.75
DN15	1/2"	13	50	4.7	0-16	4.5	PA15SAG4R050A	0.80
DN20	3/4"	18	50	9.0	0-10	4.5	PA20SAG5R050A	0.90
DN25	1"	24	63	16.0	0-8	4.5	PA25SAG6R063A	1.65
DN32	1-1/4"	31	80	24.0	0-11	4	PA32SAG7R080A	2.80
DN40	1-1/2"	35	80	32.0	0-8	4	PA40SAG8R080A	3.10
			100	32.0	0-16	4	PA40SAG8R100A	4.15
DN50	2"	45	100	50.0	0-9	4	PA50SAG9R100A	4.75

Control Pressure & Operating Pressure

Charts do not apply for Valves with flow direction Under Seat. A minimum pressure as noted above is all that is required, up to a maximum of 10 bar.

Flow Diagram



PA Series - Compact Design **Normally Closed** Valves-Flow direction **OVER** Seat

Model Numbers Shown are BSP threads

Media Temperature - 10°C to + 100°C



304 Stainless Steel Actuators with 304 Stainless Steel Bodies

Size	Port Size	Orifice mm	Actuator mm	KV m³/h	Operating Pressure Differential bar	Minimum Pilot Control Pressure Range bar	Model Number	Net Weight Kg
DN10	3/8"	13	32	4.7	0-16	4.5-6	PA10C3G3S032S	0.58
DN15	1/2"	13	32	4.7	0-16	4.5-6	PA15C3G4S032S	0.60
DN20	3/4"	15	32	5.4	0-14	4.5-6	PA20C3G5S032S	0.65

304 Stainless Steel Actuators with 316L Stainless Steel Bodies

Size	Port Size	Orifice mm	Actuator mm	KV m³/h	Operating Pressure Differential bar	Minimum Pilot Control Pressure Range bar	Model Number	Net Weight Kg
DN10	3/8"	13	32	4.7	0-16	4.5-6	PA10C3G3R032S	0.58
DN15	1/2"	13	32	4.7	0-16	4.5-6	PA15C3G4R032S	0.60
DN20	3/4"	15	32	5.4	0-14	4.5-6	PA20C3G5R032S	0.65

Media Temperature - 10°C to + 180°C

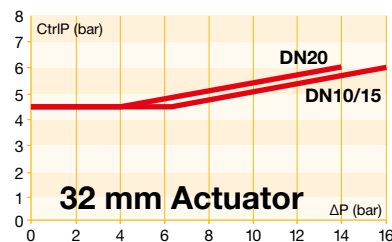
304 Stainless Steel Actuators with 304 Stainless Steel Bodies

Size	Port Size	Orifice mm	Actuator mm	KV m³/h	Operating Pressure Differential bar	Minimum Pilot Control Pressure Range bar	Model Number	Net Weight Kg
DN10	3/8"	13	32	4.7	0-16	4.5-6	PA10C1G3S032S	0.63
DN15	1/2"	13	32	4.7	0-16	4.5-6	PA15C1G4S032S	0.65
DN20	3/4"	15	32	5.4	0-14	4.5-6	PA20C1G5S032S	0.71

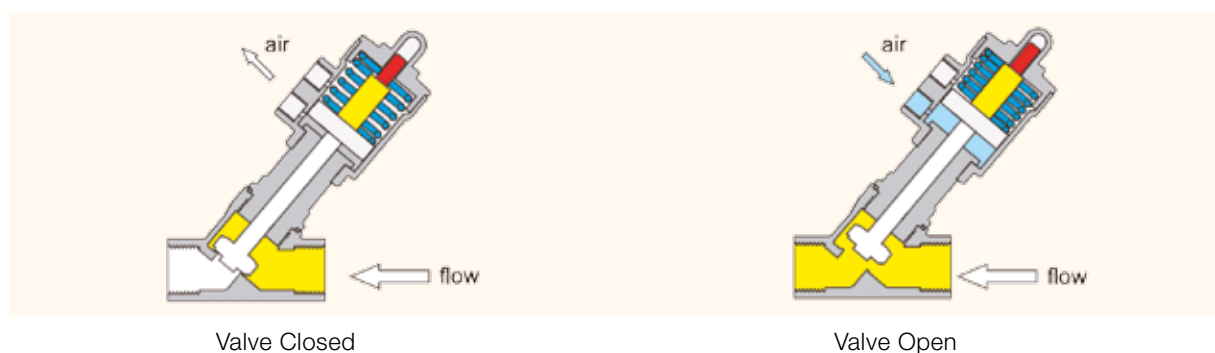
304 Stainless Steel Actuators with 316L Stainless Steel Bodies

Size	Port Size	Orifice mm	Actuator mm	KV m³/h	Operating Pressure Differential bar	Minimum Pilot Control Pressure Range bar	Model Number	Net Weight Kg
DN10	3/8"	13	32	4.7	0-16	4.5-6	PA10C1G3R032S	0.63
DN15	1/2"	13	32	4.7	0-16	4.5-6	PA15C1G4R032S	0.65
DN20	3/4"	15	32	5.4	0-14	4.5-6	PA20C1G5R032S	0.71

Control Pressure & Operating Pressure



Flow Diagram



PA Series - Compact Design Normally Closed Valves-Flow direction UNDER Seat



Model Numbers Shown are BSP threads

Media Temperature - 10°C to + 100°C



304 Stainless Steel Actuators with 304 Stainless Steel Bodies

Size	Port Size	Orifice mm	Actuator mm	KV m ³ /h	Operating Pressure Differential bar	Minimum Pilot Control Pressure Range bar	Model Number	Net Weight Kg
DN10	3/8"	13	32	4.7	0-6	5-6	PA10C4G3S032S	0.58
DN15	1/2"	13	32	4.7	0-6	5-6	PA15C4G4S032S	0.60
DN20	3/4"	15	32	5.4	0-4	5-6	PA20C4G5S032S	0.65

304 Stainless Steel Actuators with 316L Stainless Steel Bodies

Size	Port Size	Orifice mm	Actuator mm	KV m ³ /h	Operating Pressure Differential bar	Minimum Pilot Control Pressure Range bar	Model Number	Net Weight Kg
DN10	3/8"	13	32	4.7	0-6	5-6	PA10C4G3R032S	0.58
DN15	1/2"	13	32	4.7	0-6	5-6	PA15C4G4R032S	0.60
DN20	3/4"	15	32	5.4	0-4	5-6	PA20C4G5R032S	0.65

Media Temperature - 10°C to + 180°C

304 Stainless Steel Actuators with 304 Stainless Steel Bodies

Size	Port Size	Orifice mm	Actuator mm	KV m ³ /h	Operating Pressure Differential bar	Minimum Pilot Control Pressure Range bar	Model Number	Net Weight Kg
DN10	3/8"	13	32	4.7	0-6	5-6	PA10C2G3S032S	0.63
DN15	1/2"	13	32	4.7	0-6	5-6	PA15C2G4S032S	0.65
DN20	3/4"	15	32	5.4	0-4	5-6	PA20C2G5S032S	0.71

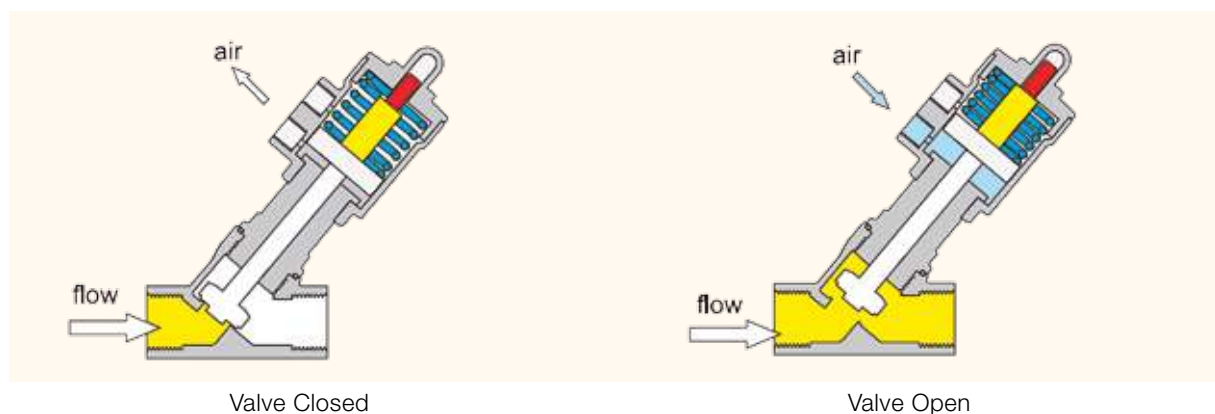
304 Stainless Steel Actuators with 316L Stainless Steel Bodies

Size	Port Size	Orifice mm	Actuator mm	KV m ³ /h	Operating Pressure Differential bar	Minimum Pilot Control Pressure Range bar	Model Number	Net Weight Kg
DN10	3/8"	13	32	4.7	0-6	5-6	PA10C2G3R032S	0.63
DN15	1/2"	13	32	4.7	0-6	5-6	PA15C2G4R032S	0.65
DN20	3/4"	15	32	5.4	0-4	5-6	PA20C2G5R032S	0.71

Control Pressure & Operating Pressure

Charts do not apply for Valves with flow direction Under Seat. A minimum pressure as noted above is all that is required, up to 10 bar maximum.

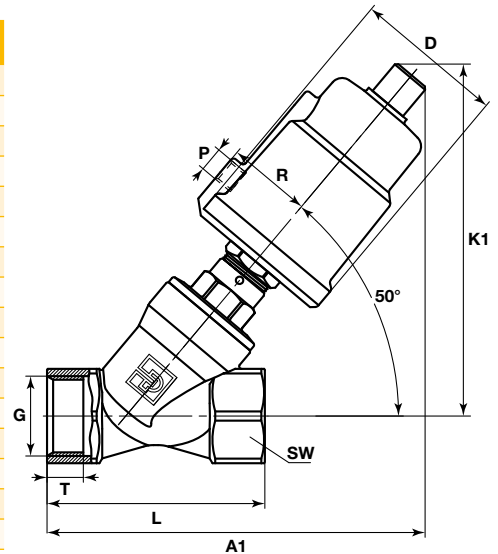
Flow Diagram



PA Series - Drawings and Dimensions

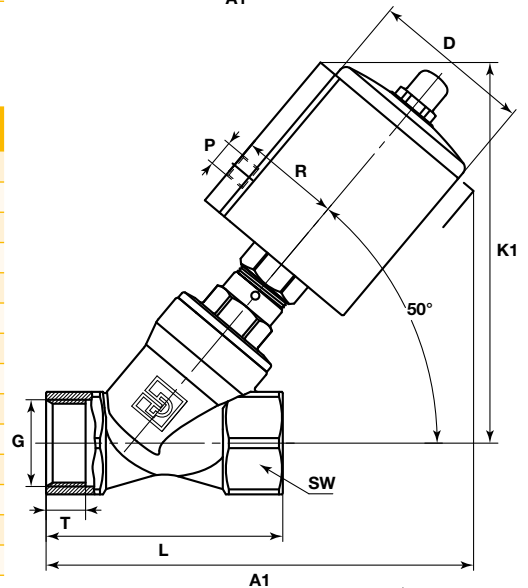
Stainless Steel Actuators Sizes 40, 50, 63, 80, 100 mm

Type	Actuator	D	R	P	K1	A1	G	L	T	SW
DN10	40	50.5	27	G1/8	116	121	G3/8	60	10	22 hexagon
	50	62	34	G1/8	130	133	G3/8	60	10	22 hexagon
DN15	40	50.5	27	G1/8	118	124	G1/2	65	11.5	25 hexagon
	50	62	34	G1/8	131	135	G1/2	65	11.5	25 hexagon
DN 20	50	62	34	G1/8	134	141	G3/4	75	14	31 hexagon
DN25	50	62	34	G1/8	141	153	G1	90	15	39 hexagon
	63	77	41.5	G1/8	164	175	G1	90	15	39 hexagon
DN32	63	77	41.5	G1/8	170	188	G1-1/4	110	18	50 octagon
	80	98	52	G1/4	184	205	G1-1/4	110	18	50 octagon
DN40	63	77	41.5	G1/8	181	201	G1-1/2	120	18	56 octagon
	80	98	52	G1/4	195	217	G1-1/2	120	18	56 octagon
	100	121	63	G1/4	213	235	G1-1/2	120	18	56 octagon
DN50	63	77	41.5	G1/8	189	216	G2	150	22	68 octagon
	80	98	52	G1/4	203	233	G2	150	22	68 octagon
	100	121	63	G1/4	221	250	G2	150	22	68 octagon
DN65	100	121	63	G1/4	248	285	G2-1/2	180	25	85 octagon



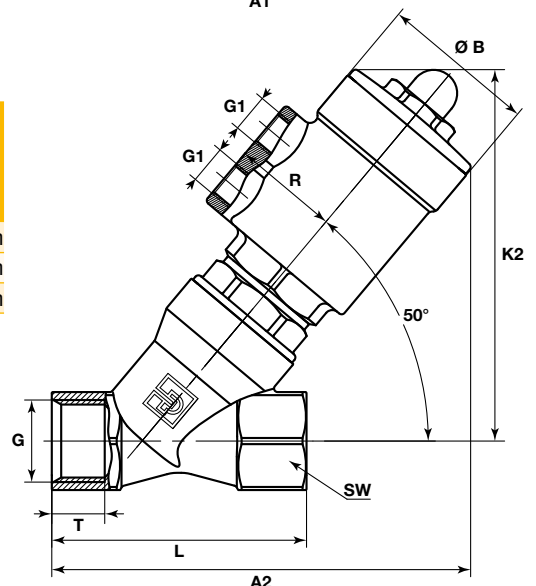
Aluminum Actuators Sizes 50, 63, 80, 100 mm

Type	Actuator	D	R	P	K1	A1	G	L	T	SW
DN10	50	61	38	G1/8	132	141	G3/8	60	10	22 hexagon
DN15	50	61	38	G1/8	133	144	G1/2	65	11.5	25 hexagon
DN20	50	61	38	G1/8	136	150	G3/4	75	14	31 hexagon
DN25	50	61	38	G1/8	144	162	G1	90	15	39 hexagon
	63	75	45	G1/8	167	183	G1	90	15	39 hexagon
DN32	63	75	45	G1/8	173	196	G1-1/4	110	18	50 octagon
	80	94	54	G1/4	192	214	G1-1/4	110	18	50 octagon
DN40	63	75	45	G1/8	184	209	G1-1/2	120	18	56 octagon
	80	94	54	G1/4	203	226	G1-1/2	120	18	56 octagon
	100	115	64	G1/4	223	245	G1-1/2	120	18	56 octagon
DN50	63	75	45	G1/8	192	224	G2	150	22	68 octagon
	80	94	54	G1/4	211	242	G2	150	22	68 octagon
	100	115	64	G1/4	231	260	G2	150	22	68 octagon
DN65	100	115	64	G1/4	257	294	G2-1/2	180	25	85 octagon



Stainless Steel Actuators Size 32 mm

Type	Actuator	Ø B	R	G1	K2		A2		G	L	T	SW
					Type C1/C2 (180°C)	Type C3/C4 (100°C)	Type C1/C2 (180°C)	Type C3/C4 (100°C)				
DN10	32	39.6	27	G1/8	107	94	117	106	G3/8	60	10	22 hexagon
DN15	32	39.6	27	G1/8	109	96	119	108	G1/2	65	11.5	25 hexagon
DN20	32	39.6	27	G1/8	112	100	126	115	G3/4	75	14	31 hexagon



PA Series - Numbering System

Angle Seat Valve Numbering System

PA	10		S1		G3		S	063S	-
	Valve Size		Valve Type/Series		Body Thread Standard		Body Material	Actuator Description	Special
PA	10	DN10	S1	NC	G3	3/8	BSP	S 304 SS	Stainless Steel 304
PA	15	DN15	S2	NO	G4	1/2	BSP	R 316L SS	032S 32 mm actuator
PA	20	DN20	SA	NC, flow under seat	G5	3/4	BSP		040S 40 mm actuator
PA	25	DN25	C1	Compact, NC, flow over seat	G6	1	BSP		050S 50 mm actuator
PA	32	DN32	C2	Compact, NC, flow under seat	G7	1-1/4	BSP		063S 63 mm actuator
PA	40	DN40	C3	Compact NC, flow over seat (100°C)	G8	1-1/2	BSP		080S 80 mm actuator
PA	50	DN50	C4	Compact NC, flow under seat (100°C)	G9	2	BSP		100S 100 mm actuator
PA	65	DN65			GT	2-1/2	BSP		
									Aluminum
									040A 40 mm actuator
									050A 50 mm actuator
									063A 63 mm actuator
									080A 80 mm actuator
									100A 100 mm actuator



WARNING - USER RESPONSIBILITY

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

- This document and other information from Parker-Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.
- The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.
- To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.

Solenoid Valves for Controlling the PA Angle Seat Valves

3 Way Direct Acting Pilot Control Valves

Available as Separate Components

Features

- Compact designs
- Brass or Stainless steel body valves
- NC (normally closed) and NO (normally open) versions
- Broad offering of coils to meet World Wide requirements
- Available in BSP and NPT connections in 1/8" and 1/4" sizes

Representative Pictures



Banjo Valve for Direct Mounting to the Valve



Banjo Valve



Banjo Valve Mounted to the valve

Solenoid Valves for Controlling the PA Angle Seat Valves

3 Way Direct Acting Pilot Control Valves

Banjo Valve - Available as Separate Components

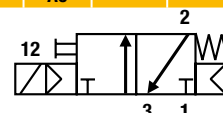
Banjo Valves G1/4" & G1/8" Series with Aluminium Body

Solenoid Operated Versions - B14-B04 Versions with 22 mm Coil

Port Size	Orifice	Q _N	Admissible differential pressure (bar) max.			Max. admissible fluid temperature (°C) Min. = -10°C	Seat disc	Reference number			Consumption Power (Watt)		Weight (g)	Dim. Ref.
Banjo	G	mm	l/min	min	DC=	AC~	Air & Neutral gases	Valve	Housing	Coil	DC	AC		

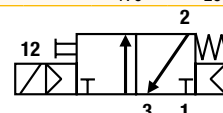
3/2 Solenoid operated - Spring return (monostable)

1/8	1/8	1.2	50	0	10	10	50	NBR	131B14	-	496131	3	3	140	26
1/8	1/8	1.2	50	0	10	10	50	NBR	131B14	-	496482	3	3	150	26
1/8	1/8	1.2	50	0	10	10	50	NBR	131B14	-	496637	3	3	150	26
1/8	1/8	1.2	50	0	10	-	50	NBR	131B14	-	482605	5	-	170	26

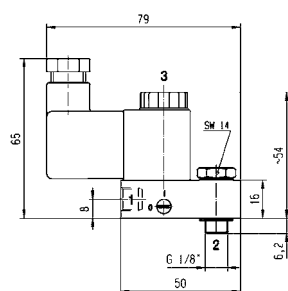


3/2 Solenoid operated - Spring return (monostable)

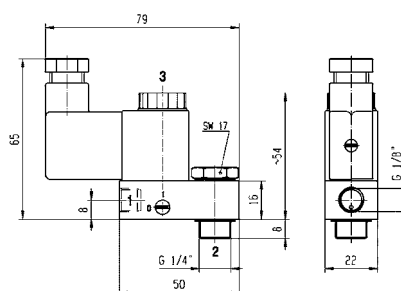
1/4	1/8	1.2	50	0	10	10	50	NBR	131B04	-	496131	3	3	160	27
1/4	1/8	1.2	50	0	10	10	50	NBR	131B04	-	496482	3	3	175	27
1/4	1/8	1.2	50	0	10	10	50	NBR	131B04	-	496637	3	3	175	27
1/4	1/8	1.2	50	0	10	-	50	NBR	131B04	-	482605	5	-	190	27



Dimensions Reference 26



Dimensions Reference 27



Coils 22 mm for Banjo Valves Series

These coils with connection for 2 P+G DIN 43650 B plug are encapsulated in synthetic material, conform to the IEC/CENELEC safety standards and comply with European low voltage directive 2006/95/EC. Banjo Valve bodies conform to the terms of the directive 94/9/CE specific to non electrical equipment for use within potentially explosive environments - Please select appropriate Coil for Safe Area or ATEX zones 1/21 or 2/22 in the following table.

- Power: 3 W or 5 W
- Insulation Class: F (155°C)
- Degree of Protection: IP65 (with plug)
- Duty Cycle: 100% ED

Available Voltages	Safe area without DIN plug Code	Safe area with DIN plug Code	For Zone 2/22 II 3 G-Ex nc AC IIC T5 II 3 D-Ex tc AC IIC - T 95°C code with DIN plug	For Zone 1/21 II 2 G-Ex mb II T4 II 2 D-Ex tb IIC - T 130°C code includes DIN plug and 1.5 m cable
12 VDC	496131 C1	496482 C1	496637 C1	482605 C1
24 VDC	496131 C2	496482 C2	496637 C2	482605 C2
48 VDC	496131 C4	496482 C4	496637 C4	-
110 VDC	496131 C5	496482 C5	496637 C5	-
24/50-60 VAC	496131 P0	496482 P0	496637 P0	-
48/50-60 VAC	496131 S4	496482 S4	496637 S4	-
110/50-60 VAC	496131 P2	496482 P2	496637 P2	-
115/60 VAC	496131 K8	496482 K8	496637 K8	-
230/50-60 VAC	496131 P9	496482 P9	496637 P9	-

How to Order

Valve Reference Number - Coil Reference - Voltage code = Order code

Example: 131B14 - 496131 C2 - Valves and coils may be ordered also separately.