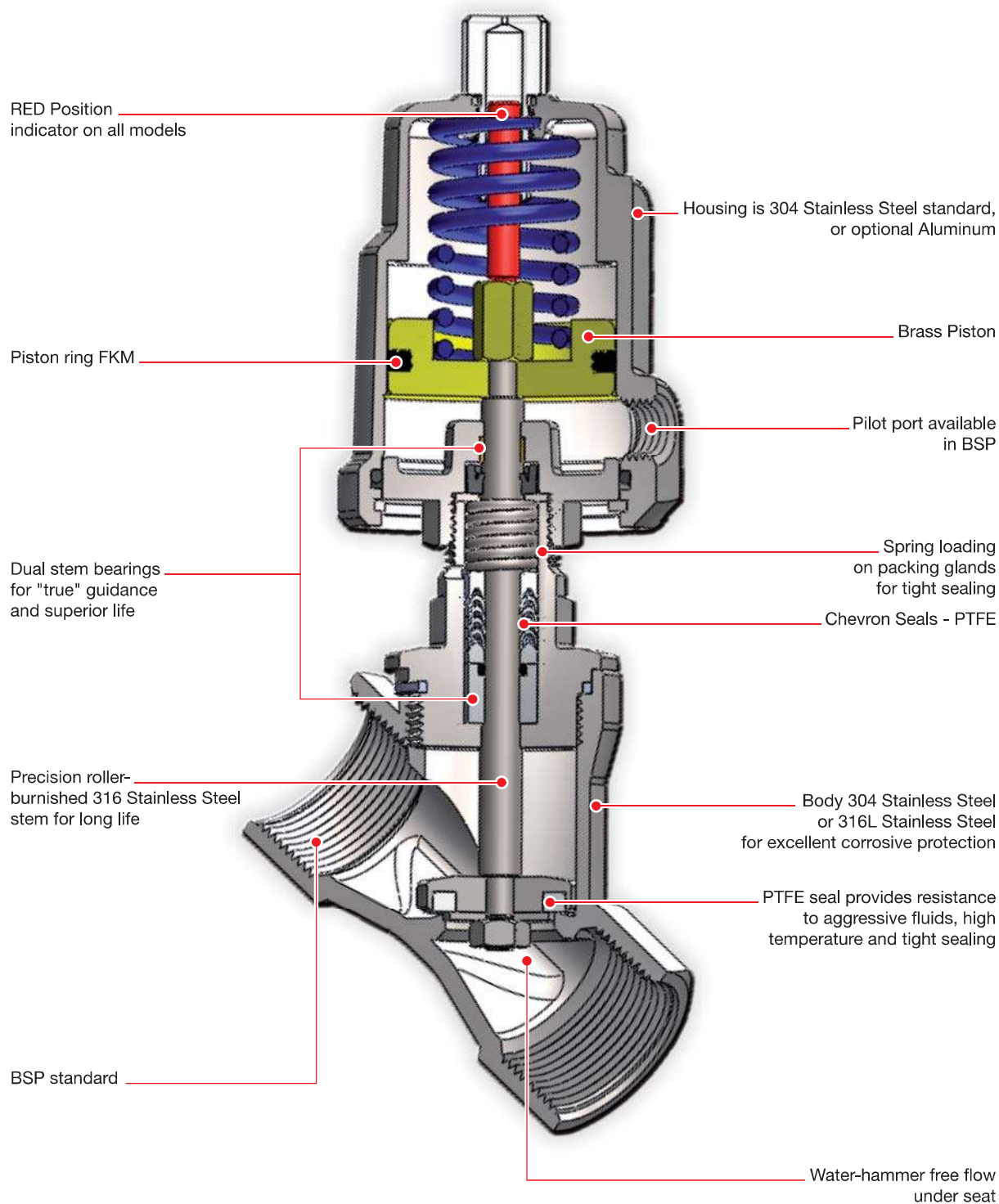


Key Features



General Specifications

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

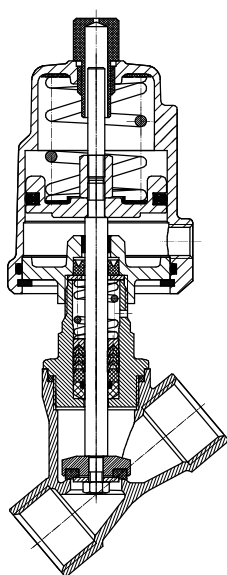


- Body Material 304 Stainless Steel or 316 Stainless Steel
- Actuator Material 304 Stainless Steel, or Aluminum
- Function 2/2 NC, NO, NC (anti-water hammer)
- Port size from DN 10 (3/8") to DN 65 (2 1/2")
- Connections: Threads BSP
- Max Working Pressure 16 Bar
- Flow factor KV from 4.7 m³/h (DN10) 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)

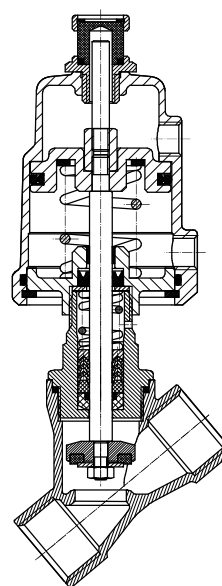
For liquids, use versions with flow direction under the seat.

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 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

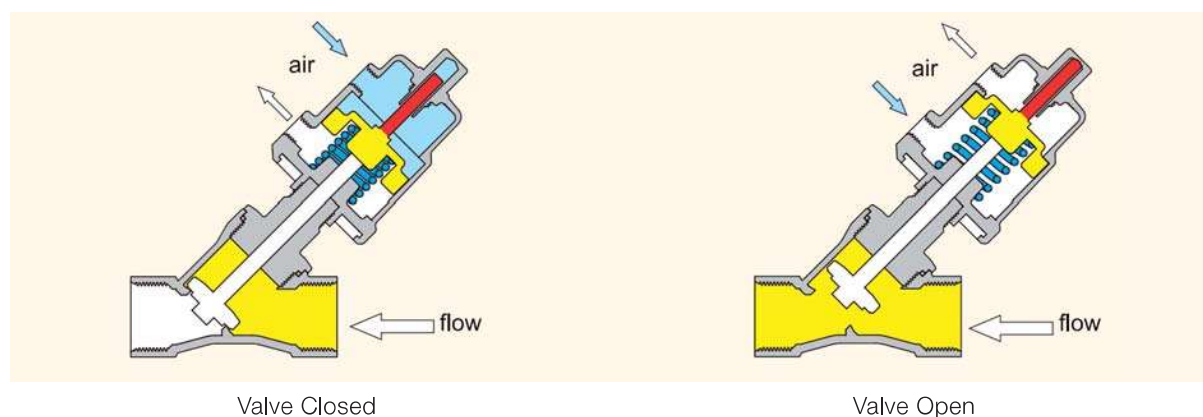
304 Stainless Steel Actuators
with 316L Stainless Steel Bodies

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.

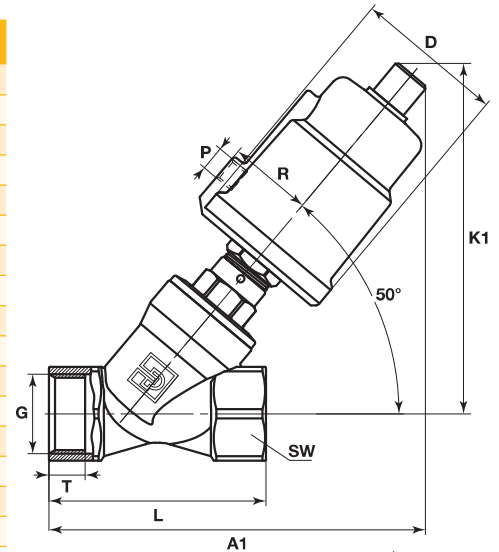
Flow Diagram



PA Series - Drawings and Dimensions

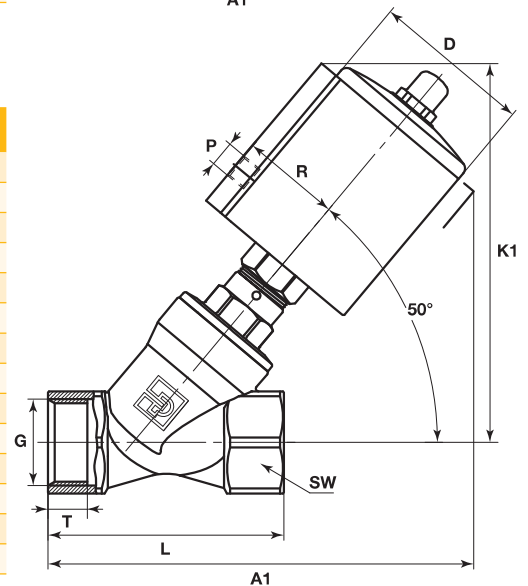
Stainless Steel Actuators Sizes 40, 50, 63, 80, 100 mm

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
DN65	100	121	63	G1/4	221	250	G2	150	22	68 octagon
	100	121	63	G1/4	248	285	G2-1/2	180	25	85 octagon



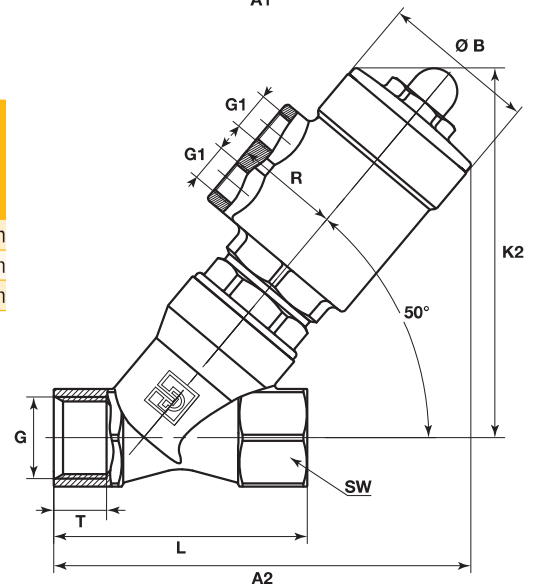
Aluminum Actuators Sizes 50, 63, 80, 100 mm

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
DN65	100	115	64	G1/4	231	260	G2	150	22	68 octagon
	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



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