

Angle Seat Valves

PA Series - Pneumatically Actuated



ENGINEERING YOUR SUCCESS.

Features and Benefits

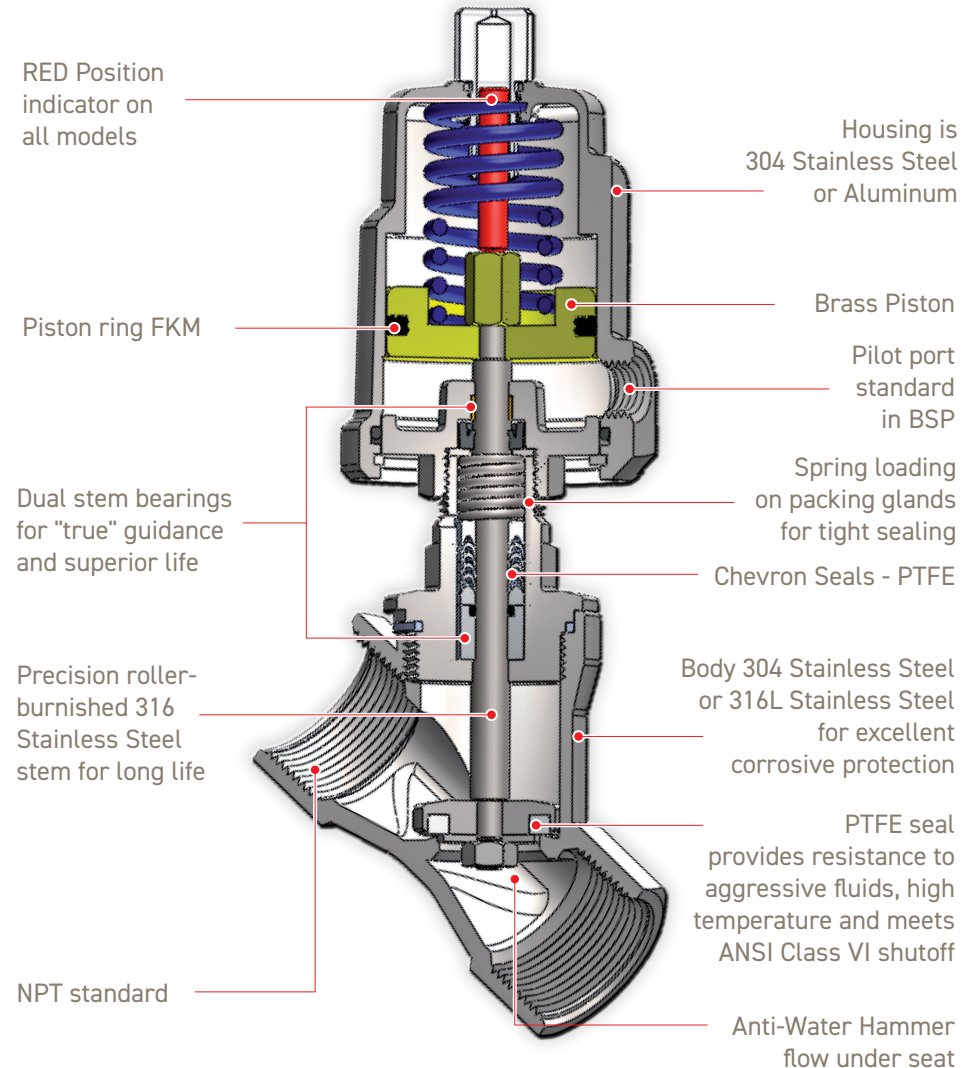
Introduction

PA Series Angle Seat Valves are actuated by a pneumatically driven piston and are capable of handling slurries and corrosive solutions. The valves can manage high temperatures and operating pressures with unparalleled robustness. By combining classic design features with new intelligent controls, Parker PA Series Angle Seat Valves deliver more value than ever before.

Angle Seat Valves are suitable for use in diverse markets and applications.

Range	
Port Size	3/8" - 2-1/2"
Flow	5.5 - 81.7 Cv
Pressure	Up to 232 psi
Media Temp.	Up to 356 °F
Ambient Temp.	Up to 140 °F
Pilot Pressure	44 - 145 psi

Features



Benefits

- High flow with compact footprint. Proportional control option provides variable flow capability to control flow, pressure, temperature, or liquid level along with stem position feedback capability.
- Visual position indicator and multi-poise valve design allow for flexible installation. Optional limit switch box or proximity sensor offers remote monitoring of valve stem position.
- High temperature capabilities to 356 °F
- Pressure ratings accommodate diverse applications
- Anti-Water Hammer design reduces piping system and equipment wear
- Suitable for use in hazardous locations
- Valves can manage diverse media types and viscosities. Debris tolerant and compatible with slurries for maximum system uptime and application flexibility.
- Corrosion resistant materials accommodate diverse media types and offer protection from corrosion for longer service life.
- PTFE seating seal material and bubble tight shutoff deliver performance and chemical compatibility for excellent application coverage.
- Multiple PTFE and carbon filled PTFE packing accommodates corrosive media type and higher temperatures for long service life
- Economical replacement for many types of process control valves

2 Way Normally Closed

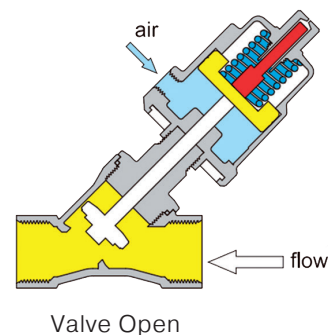
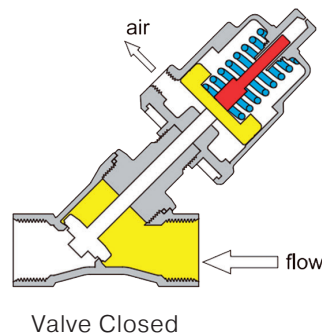
Flow Over Seat

304 Stainless Steel Bodies - Aluminum Actuators

Valve Size	Port Size	Orifice	Cv	Actuator			Operating Pressure Air, Inert Gas psi	Operating Pressure Steam psi	Minimum Pilot Control Pressure Range psi	Model Number	Net Weight lb.	
				Diameter		Port						
				mm	in.							BSP
3/8"	3/8"	0.51	5.5	50	1.97	1/8	0 - 232	0 - 130	43.5	PA10S1N3S050A	1.65	
1/2"	1/2"	0.51	5.5	50	1.97	1/8	0 - 232	0 - 130	43.5	PA15S1N4S050A	1.76	
3/4"	3/4"	0.71	10.5	50	1.97	1/8	0 - 232	0 - 130	43.5 - 58	PA20S1N5S050A	1.98	
				18.7	50	1.97	1/8	0 - 232	0 - 130	43.5 - 80	PA25S1N6S050A	2.79
1"	1"	0.94	18.7	63	2.48	1/8	0 - 232	0 - 130	43.5 - 58	PA25S1N6S063A	3.63	
				28.0	63	2.48	1/8	0 - 232	0 - 130	43.5 - 80	PA32S1N7S063A	4.16
1-1/4"	1-1/4"	1.22	28.0	63	2.48	1/8	0 - 232	0 - 130	43.5 - 80	PA32S1N7S063A	4.16	
1-1/2"	1-1/2"	1.38	37.3	63	2.48	1/8	0 - 232	0 - 130	43.5 - 94.3	PA40S1N8S063A	4.73	
				58.3	63	2.48	1/8	0 - 145	0 - 130	43.5 - 94.3	PA50S1N9S063A	6.56
				58.3	80	3.15	1/4	0 - 232	0 - 130	43.5 - 95.7	PA50S1N9S080A	7.83
2"	2"	1.77	58.3	100	3.94	1/4	0 - 232	0 - 130	43.5 - 72.5	PA50S1N9S100A	10.45	
				81.7	100	3.94	1/4	0 - 145	0 - 130	43.5 - 87	PA65S1NTS100A	12.10

316L Stainless Steel Bodies - 304 Stainless Steel Actuators

Valve Size	Port Size	Orifice	Cv	Actuator			Operating Pressure Air, Inert Gas psi	Operating Pressure Steam psi	Minimum Pilot Control Pressure Range psi	Model Number	Net Weight lb.	
				Diameter		Port						
				mm	in.							BSP
3/8"	3/8"	0.51	5.5	40	1.57	1/8	0 - 232	0 - 130	58.0	PA10S1N3R040S	1.72	
				50	1.97	1/8	0 - 232	0 - 130	43.5	PA10S1N3R050S	2.22	
1/2"	1/2"	0.51	5.5	40	1.57	1/8	0 - 232	0 - 130	58.0	PA15S1N4R040S	1.76	
				50	1.97	1/8	0 - 232	0 - 130	43.5	PA15S1N4R050S	2.27	
3/4"	3/4"	0.71	10.5	50	1.97	1/8	0 - 232	0 - 130	43.5 - 58.0	PA20S1N5R050S	2.33	
1"	1"	0.94	18.7	50	1.97	1/8	0 - 232	0 - 130	43.5 - 80	PA25S1N6R050S	3.04	
				18.7	63	2.48	1/8	0 - 232	0 - 130	43.5 - 50.8	PA25S1N6R063S	4.51
1-1/4"	1-1/4"	1.22	28.0	63	2.48	1/8	0 - 232	0 - 130	43.5 - 72.5	PA32S1N7R063S	5.28	
1-1/2"	1-1/2"	1.38	37.3	63	2.48	1/8	0 - 232	0 - 130	43.5 - 87	PA40S1N8R063S	6.05	
				58.3	63	2.48	1/8	0 - 145	0 - 130	43.5 - 94.3	PA50S1N9R063S	7.70
				58.3	80	3.15	1/4	0 - 232	0 - 130	43.5 - 95.7	PA50S1N9R080S	10.16
2"	2"	1.77	58.3	100	3.94	1/4	0 - 232	0 - 130	43.5 - 72.5	PA50S1N9R100S	11.35	
				81.7	100	3.94	1/4	0 - 145	0 - 130	43.5 - 87	PA65S1NTR100S	19.03



2 Way Normally Closed

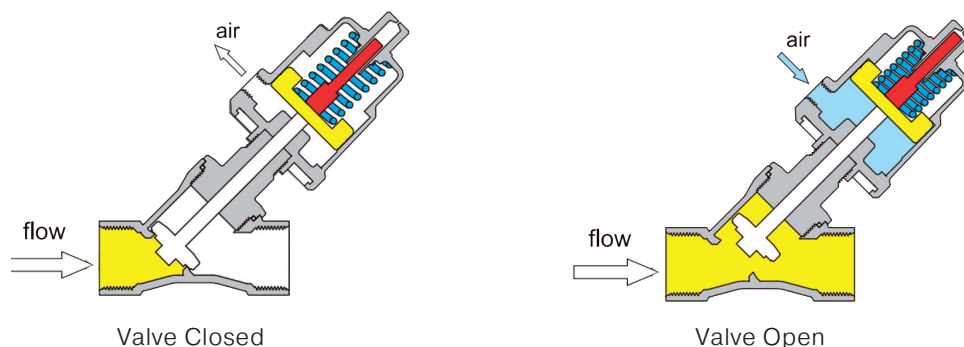
Flow Under Seat

304 Stainless Steel Bodies - Aluminum Actuators Anti-Water Hammer

Valve Size	Port Size	Orifice	Cv	Actuator			Operating Pressure Air, Inert Gas, Liquid psi	Operating Pressure Steam psi	Minimum Pilot Control Pressure Range psi	Model Number	Net Weight lb.
				Diameter		Port					
				mm	in.	BSP					
3/8"	3/8"	0.51	5.5	50	1.97	1/8	0 - 232	0 - 130	65.3	PA10SAN3S050A	1.65
1/2"	1/2"	0.51	5.5	50	1.97	1/8	0 - 232	0 - 130	65.3	PA15SAN4S050A	1.76
3/4"	3/4"	0.71	10.5	50	1.97	1/8	0 - 145	0 - 130	65.3	PA20SAN5S050A	1.98
1"	1"	0.94	18.7	63	2.48	1/8	0 - 116	0 - 130	65.3	PA25SAN6S063A	3.63
1-1/4"	1-1/4"	1.22	28.0	80	3.15	1/4	0 - 160	0 - 130	58.0	PA32SAN7S080A	6.16
1-1/2"	1-1/2"	1.38	37.3	80	3.15	1/4	0 - 116	0 - 130	58.0	PA40SAN8S080A	6.82
				100	3.94	1/4	0 - 232	0 - 130	58.0	PA40SAN8S100A	9.13
2"	2"	1.77	58.3	100	3.94	1/4	0 - 130	0 - 130	58.0	PA50SAN9S100A	10.45

316L Stainless Steel Bodies - 304 Stainless Steel Actuators Anti-Water Hammer

Valve Size	Port Size	Orifice	Cv	Actuator			Operating Pressure Air, Inert Gas, Liquid psi	Operating Pressure Steam psi	Minimum Pilot Control Pressure Range psi	Model Number	Net Weight lb.
				Diameter		Port					
				mm	in.	BSP					
3/8"	3/8"	0.51	5.5	50	1.97	1/8	0 - 232	0 - 130	65.3	PA10SAN3R050S	2.22
1/2"	1/2"	0.51	5.5	50	1.97	1/8	0 - 232	0 - 130	65.3	PA15SAN4R050S	2.27
3/4"	3/4"	0.71	10.5	50	1.97	1/8	0 - 145	0 - 130	65.3	PA20SAN5R050S	2.33
1"	1"	0.94	18.7	63	2.48	1/8	0 - 116	0 - 130	65.3	PA25SAN6R063S	4.51
1-1/4"	1-1/4"	1.22	28.0	80	3.15	1/4	0 - 160	0 - 130	58.0	PA32SAN7R080S	8.40
1-1/2"	1-1/2"	1.38	37.3	80	3.15	1/4	0 - 116	0 - 130	58.0	PA40SAN8R080S	8.95
				100	3.94	1/4	0 - 232	0 - 130	58.0	PA40SAN8R100S	10.14
2"	2"	1.77	58.3	100	3.94	1/4	0 - 130	0 - 130	58.0	PA50SAN9R100S	11.35



2 Way Normally Open

Flow Under Seat

304 Stainless Steel Bodies - Aluminum Actuators Anti-Water Hammer

Valve Size	Port Size	Orifice	Cv	Actuator			Operating Pressure Air, Inert Gas, Liquid	Operating Pressure Steam	Minimum Pilot Control Pressure Range	Model Number	Net Weight
				Diameter	Port						
				mm	in.	BSP					
3/8"	3/8"	0.51	5.5	50	1.97	1/8	0 - 232	0 - 130	50.8	PA10S3N3S050A	1.65
1/2"	1/2"	0.51	5.5	50	1.97	1/8	0 - 232	0 - 130	50.8	PA15S3N4S050A	1.76
3/4"	3/4"	0.71	11.1	50	1.97	1/8	0 - 232	0 - 130	50.8	PA20S3N5S050A	1.98
1"	1"	0.94	18.1	63	2.48	1/8	0 - 232	0 - 130	65.3	PA25S3N6S063A	3.63
1-1/4"	1-1/4"	1.22	27.0	80	3.15	1/4	0 - 232	0 - 130	43.5	PA32S3N7S080A	6.16
1-1/2"	1-1/2"	1.38	36.2	80	3.15	1/4	0 - 232	0 - 130	43.5	PA40S3N8S080A	6.82
2"	2"	1.77	58.3	80	3.15	1/4	0 - 232	0 - 130	43.5	PA50S3N9S080A	7.83

316L Stainless Steel Bodies - 304 Stainless Steel Actuators Anti-Water Hammer

Valve Size	Port Size	Orifice	Cv	Actuator			Operating Pressure Air, Inert Gas, Liquid	Operating Pressure Steam	Minimum Pilot Control Pressure Range	Model Number	Net Weight
				Diameter	Port						
				mm	in.	BSP					
3/8"	3/8"	0.51	5.5	50	1.97	1/8	0-232	0 - 130	50.8	PA10S3N3R050S	2.22
1/2"	1/2"	0.51	5.5	50	1.97	1/8	0-232	0 - 130	50.8	PA15S3N4R050S	2.27
3/4"	3/4"	0.71	11.1	50	1.97	1/8	0-232	0 - 130	50.8	PA20S3N5R050S	2.33
1"	1"	0.94	18.1	63	2.48	1/8	0-232	0 - 130	65.3	PA25S3N6R063S	4.51
1-1/4"	1-1/4"	1.22	27.0	80	3.15	1/4	0-232	0 - 130	43.5	PA32S3N7R080S	8.40
1-1/2"	1-1/2"	1.38	36.2	80	3.15	1/4	0-232	0 - 130	43.5	PA40S3N8R080S	8.91
2"	2"	1.77	58.3	80	3.15	1/4	0-232	0 - 130	43.5	PA50S3N9R080S	10.16

