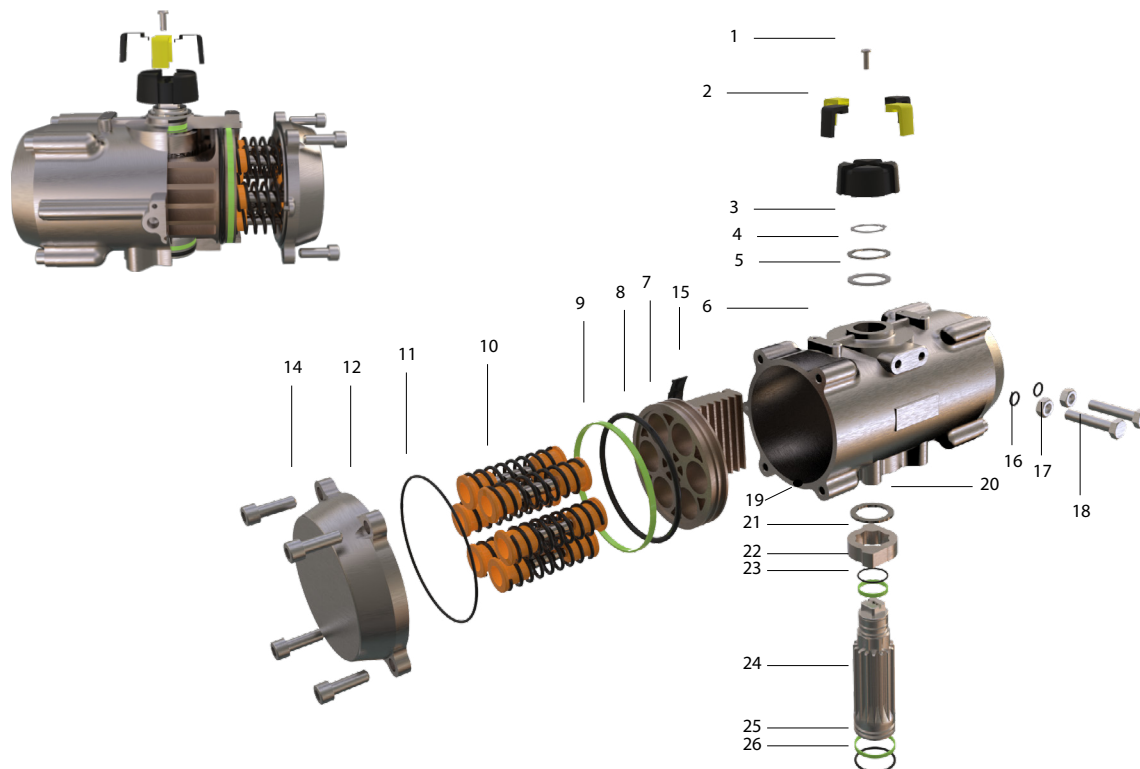
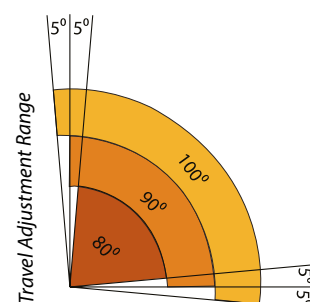
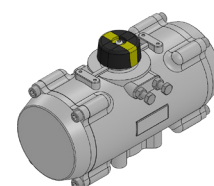


A215 Series Pneumatic Actuators

Proval A215 Series innovative, compact design pneumatic rack and pinion rotary actuators including all critical components are manufactured in-house using dedicated state-of-the-art CNC machines following ISO quality assurance standards. Proval pneumatic actuators that can be set either to fail-open or fail-close, comes in 12 different sizes in both double and single acting types. This Series of actuators having torque figures in ranges 20 to 9767 Nm are well suited to operate on part-turn valves such as plug, ball and butterfly valves.

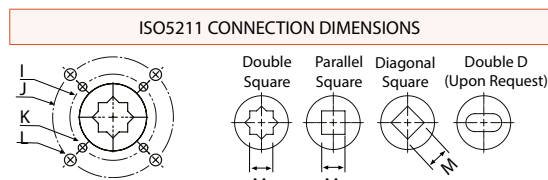
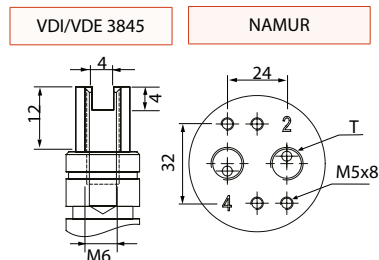
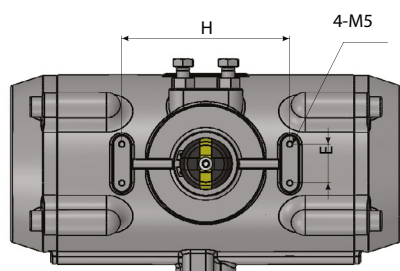
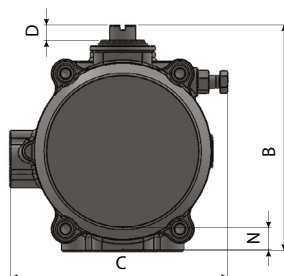
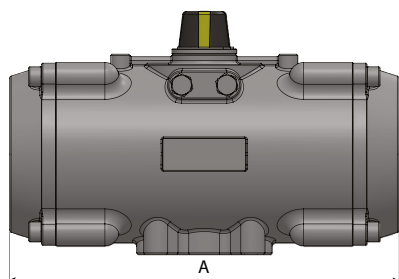


No.	Description	QTY.	Standards Material
1	Indicator Screw	1	Plastic
2	Indicator	1	Plastic
3	Circlip	1	Stainless steel
4	Washer	1	Stainless steel
5	Outside Washer	1	Engineering Plastics
6	Body	1	Stainless steel
7	Piston	2	Stainless steel
8	Piston O-ring	2	Viton/NBR
9	Piston Bearing	2	Engineering Plastics
10	Spring	0-12	Spring Steel
11	End-Cap O-ring	2	Viton/NBR
12	End-Cap	2	Stainless steel
13	Stop screw(Piston)	2	Stainless steel
14	End-Cap Stop Screw	8	Stainless steel
15	Guide Piston	2	66 Nylon 66
16	O-ring(Adjust screw)	2	NBR
17	Nut(Adjust screw)	2	Stainless steel
18	Adjust screw	2	Stainless steel
19	Plug	2	NBR
20	Inside Washer	1	Engineering Plastics
21	Cam	1	Stainless steel
22	O-ring(Top)	1	Viton/NBR
23	Bearing Top	1	Engineering Plastics
24	Pinion	1	Stainless steel
25	Bearing Bottom	1	Engineering Plastics
26	O-ring Bottom	1	Viton/NBR





A215 Series 90° Rotation Pneumatic Actuators Dimensions and Weight Information



Dimensions(mm)

Model	Dimension (mm)												
	A	B	C	D	E	H	I	J	K	L	M	N	T
PA 45	133	64	70	20	30	80	Φ36	Φ50	4-M5×7.5	4-M6×10	11	14	G 1/4"
PA 52	146	72	79	20	30	80	Φ36	Φ50	4-M5×7.5	4-M6×10	11	14	G 1/4"
PA 63	173	88	92	20	30	80	Φ50	Φ70	4-M6×10	4-M8×13	14	18	G 1/4"
PA 83	204	108	113,5	20	30	80	Φ50	Φ70	4-M6×10	4-M8×13	17	21	G 1/4"
PA 105	270	133	137	20	30	80	Φ70	Φ102	4-M8×13	4-M10×16	22	26	G 1/4"
PA 125	302	155	156,5	20	30	130	Φ70	Φ102	4-M8×13	4-M10×16	22	27	G 1/4"
PA 140	394	172	172,5	20	30	130	Φ102	Φ125	4-M10×16	4-M12×20	27	32	G 1/4"
PA 160	456	198	193	20	30	130	Φ102	Φ125	4-M10×16	4-M12×20	27	34	G 1/4"
PA 210	568	257	254	30	30	130	-	Φ140	-	4-M16×24	36	40	G 1/4"
PA 240	608	291	293	30	30	130	-	Φ165	-	4-M20×25	46	50	G 1/4"
PA 300	820	354	354	30	30	130	-	Φ165	-	4-M20×25	46	60	G 1/2"
PA 400	934	464	435	30	30	130	Φ165	Φ254	4-M20×25	8-M16×25	55	60	G 1/2"

Actuator Unit Weights (Kg/Pc)

Model	PA 45	PA 52	PA 63	PA 83	PA 105	PA 125	PA 140	PA 160	PA 210	PA 300
Double Acting	1.8	2.5	3.79	6.5	10	13.5	15.5	28	71.5	170.5
Spring Return	2.1	2.63	3.96	6.8	10.8	13.95	18.65	31.7	80.0	198.1

Air Consumption of Actuators (Lt/Stroke)

Model	PA 45	PA 52	PA 63	PA 83	PA 105	PA 125	PA 140	PA 160	PA 210	PA 300
Opening (Lt)	0.08	0.12	0.21	0.43	0.95	1.60	2.50	3.70	7.50	23.8
Closing (Lt)	0.11	0.16	0.23	0.47	0.88	1.40	2.20	3.20	7.50	29.7

Low Temperature, Silicone Leaktightness

High Temperature, FKM(Viton) Leaktightness