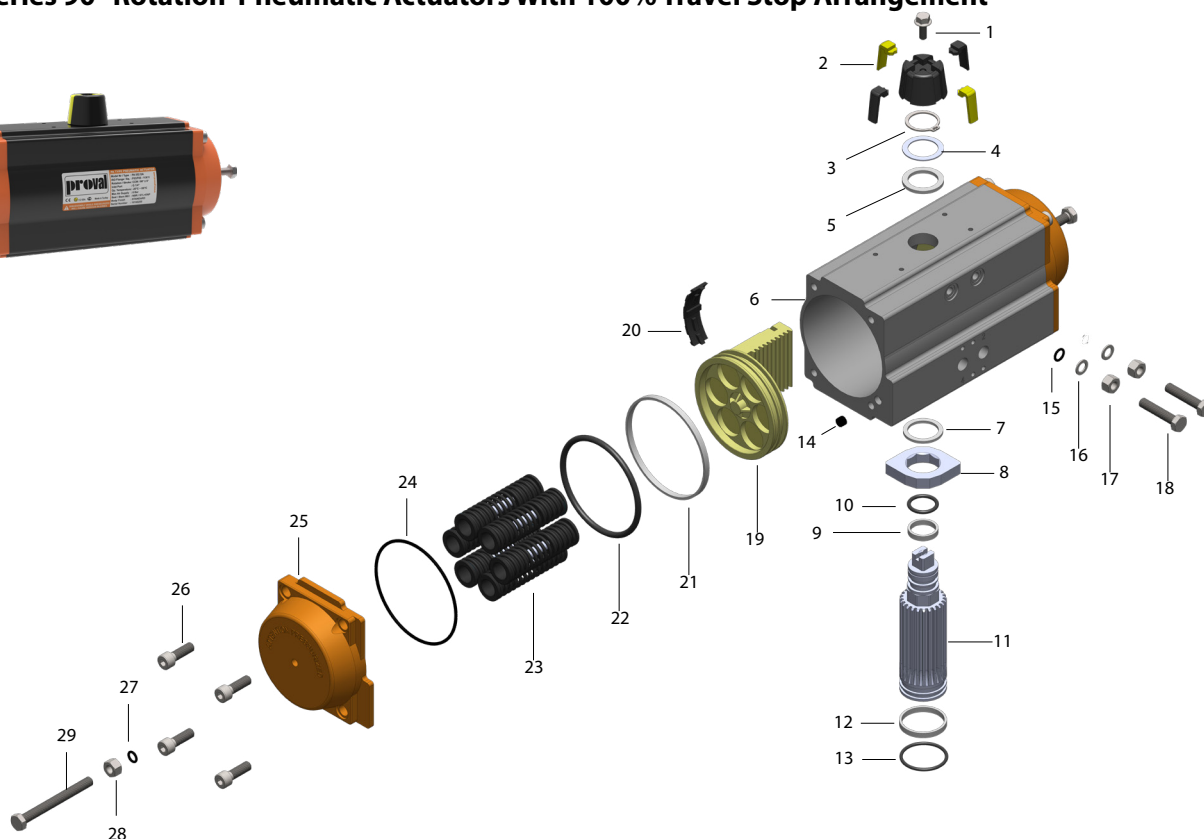


## A211 Series 90° Rotation Pneumatic Actuators With 100% Travel Stop Arrangement



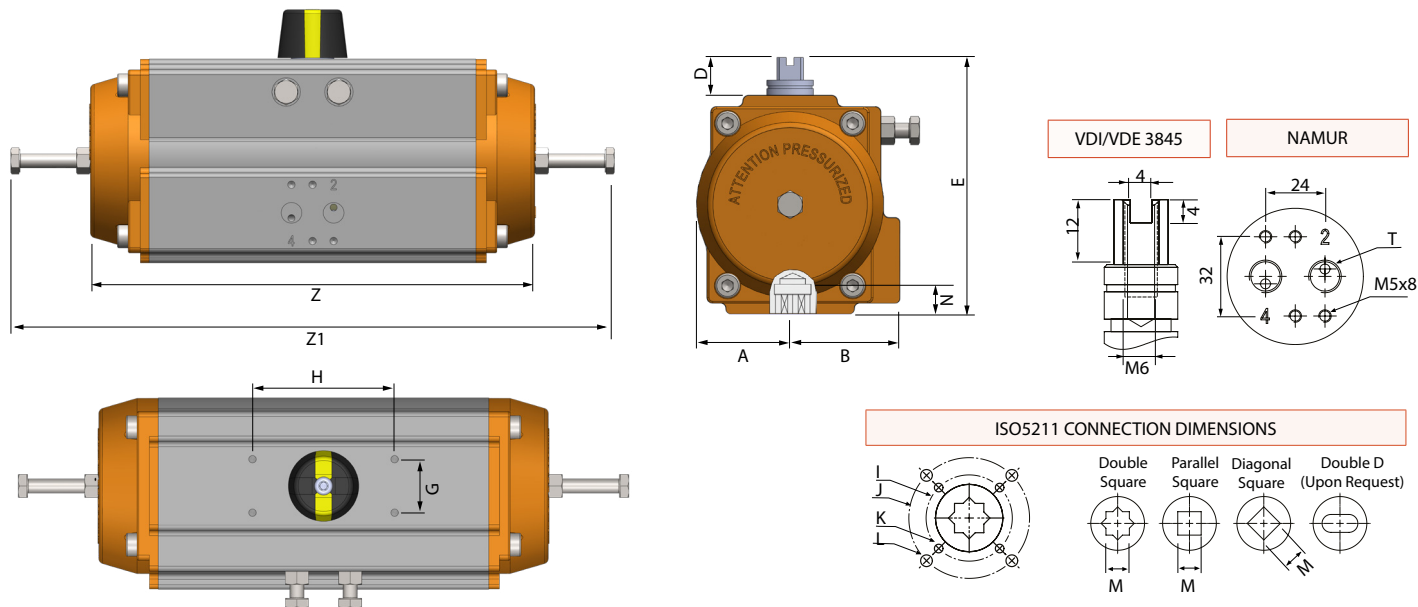
No.	Description	Qty	Standard Material	Protection	Optional Material
1	Indicator Screw	1	Stainless Steel	Galvanized	Stainless Steel
2	Indicator	1	Plastic		
3	Circlip	1	Stainless Steel		
4	Metal Washer	1	Stainless Steel		
5	Washer	1	Engineering Plastics		
6	Body	1	Extruded Aluminium Alloy	Hard Anodizing	Polyester, ENP, PFA, ECTFE Coatings
7	Inner Washer	1	Engineering Plastics		
8	Cam	1	Alloy Steel		
9	Pinion Upper Bearing	1	Engineering Plastics		Viton / Silicone
10	Pinion Upper O-Ring	1	NBR		
11	Pinion	1	Alloy Steel	Nickel Plating / Galvanized	Stainless Steel
12	Pinion Lower Bearing	1	NBR		Viton / Silicone
13	Pinion Lower O-Ring	1	Engineering Plastics		
14	Sealing Plug	2	NBR		Viton / Silicone
15	Adjustment Screw O-Ring	2	NBR		Viton / Silicone
16	Washer (Adjustment Bolt)	2	Stainless Steel		
17	Nut (Adjustment Bolt)	2	Stainless Steel		
18	Stroke Adjustment Bolt	2	Stainless Steel		
19	Piston	2	Aluminium Die Cast	Alodine Coating	
20	Guide Piston	2	Engineering Plastics		
21	Bushinglamma Washeru (Piston)	2	Engineering Plastics		
22	Piston Bearing	2	NBR		Viton / Silicone
23	Cartridge Springs	0~12	Spring Steel	Cataphoresis Coating	
24	End Cap O-Ring	2	NBR		Viton / Silicone
25	End Cap	2	Cast Aluminium	Epoxy Powder Coating	ENP, PFA, ECTFE Coatings
26	Cap Screw	8	Stainless Steel		
27	O-Ring	2	NBR		Viton / Silicone
28	Nut	2	Stainless Steel		
29	Limit Adjustment Bolt	2	Stainless Steel		



## A211 Series 90° Rotation Pneumatic Actuators With 100% Travel Stop Arrangement

A211 Series pneumatic actuator has externally adjustable travel stop arrangement that permits opening of the actuator to be restricted to any position between full close (0±5°) to full open (90±5°) position by rotating the limit adjustment nut in clock wise or counter clockwise direction until the desired stroke (double and single acting possible) reached.

### A211 Series 90° Pneumatic Actuators Dimensions and Weight Information



Dimensions(mm)

Model	A	B	D	E	G	H	I	J	K	L	M	N	Z	Z1 (0°)	Z1 (90°)	T
PA 52	30	41	20	92	30	80	ø36	ø50	M5x8	M6x10	9-11	14	146	205	236	G1/4"
PA 63	36	47	20	107	30	80	ø50	ø70	M6x10	M8x13	9-11-14	18	171	212	250	G1/4"
PA 75	42	53	20	120	30	80	ø50	ø70	M6x10	M8x13	11-14	18	186	225	263	G1/4"
PA 83	46	57	20	128	30	80	ø50	ø70	M6x10	M8x13	14-17	21	205	257	304	G1/4"
PA 92	50	58	20	136	30	80	ø50	ø70	M6x10	M8x13	14-17	21	253	276	332	G1/4"
PA 105	58	64	20	153	30	80	ø70	ø102	M8x13	M10x16	17-22	26	267	285	348	G1/4"
PA 125	68	75	20	175	30	80	ø70	ø102	M8x13	M10x16	22	26	301	349	418	G1/4"
PA 140	75	77	20	192	30	80	ø102	ø125	M10x16	M12x20	27	31	390	478	572	G1/4"
PA 160	87	87	20	217	30	80	ø102	ø125	M10x16	M12x20	27	31	451	604	714	G1/4"
PA 190	103	103	30	260	30	130	ø140		M16x25		36	40	525	634	760	G1/4"
PA 210	113	113	30	285	30	130	ø140		M16x25		36	40	532	634	758	G1/4"
PA 240	130	130	30	318	30	130	ø165		M20x25		46	50	610	658	800	G1/4"
PA 270	147	147	30	356	30	130	ø165		M20x25		46	50	722	680	850	G1/2" G1/4"

### Torque Values (Nm)

Output Torque Values are identical to that of A210 Series. Please see Torque Charts on pages 62, 64, 65

### Actuator Unit Weights (Kg/Pc)

Model	PA 52	PA 63	PA 75	PA 83	PA 92	PA 105	PA 125	PA 140	PA 160	PA 190	PA 210	PA 240	PA 270
Spring Return	1,6	2,3	3,0	3,7	5,6	6,8	10,6	14,7	24,0	46,8	53,8	74,0	116,6
Double Acting	1,5	2,2	2,8	3,4	5,1	6,0	9,2	12,3	19,7	39,8	44,8	59,7	94,3