HPA Rack and Pinion Pneumatic Actuator is prelubricated and tested to a min one million operations. Actuators are available double acting and spring return models. Its meet international ISO5211 standards for easy vale mounting and replacement visual position indicator will monitor the open and closed position.

Standard Specification

Movement:	Standard adjustable 90°±%
Lubrication:	All moving parts are lubricated for life-long cycle
Cycle Life:	1,000,000 Operations
Body:	Hard anodized extruded Aluminium alloy
Indicator:	Open/Close Disc
Travel Stops:	External adjustable±5% in both open/closed position
Springs:	High tensile spring sets of alloy steel
Piston Shaft:	Nickel plated alloy steel reduces friction
Piston Guides:	Self lubricating(Polypropylene+GF)Piston Seals Nitrile**
Piston:	Die casted aluminium dual piston
End Caps:	Polyester coated die cast aluminium

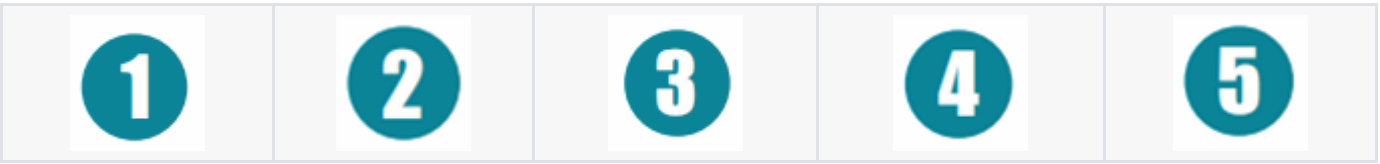
Working Pressure

Standard Temperature:-20~+80Degree
Low Temperature:-50~+80Degree
High Temperature:-15~+150

Testing For All Actuators

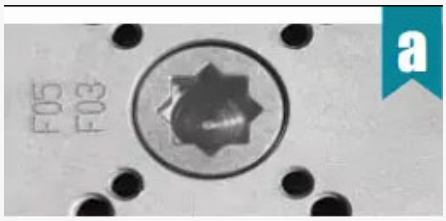
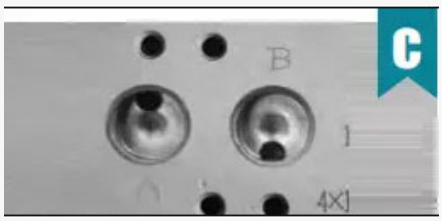
All actuators manufactured by HEARKEN are individually tested. Testing is carried out to check the leakage in both internal and external. The angle of rotation and Torque values. All bodies are stamped with year, month of production, size and serial number.

Range of Standard Accessories are Available for Direct Mounting

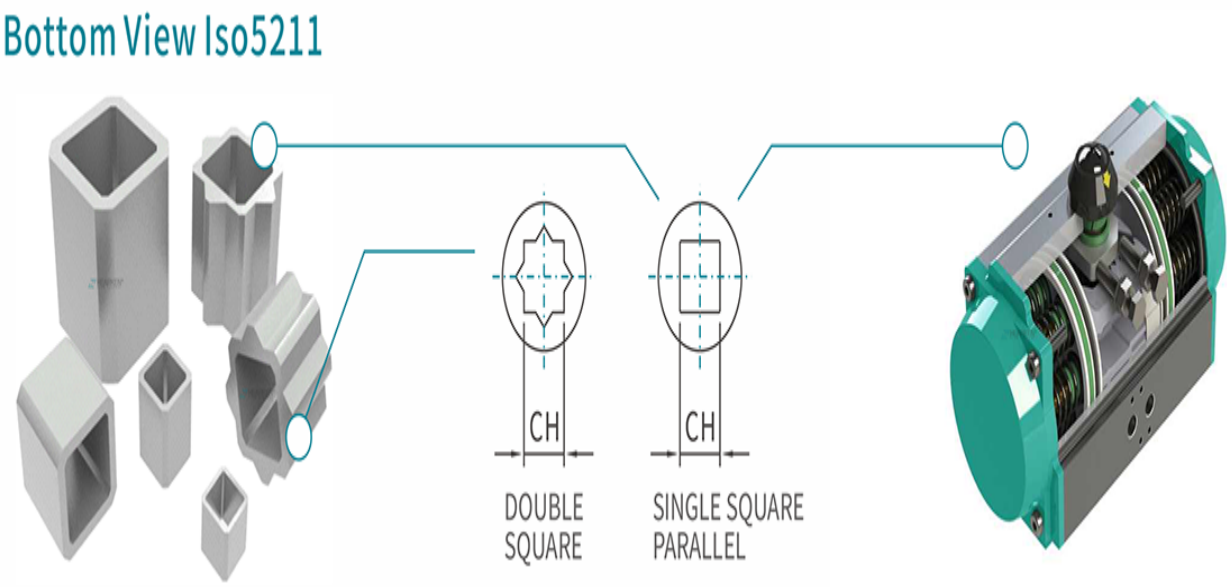


Solenoid Valve	Limit Switch Boxes	Electro-pneumatic Positioner	Declutjable Manual Override Gearbox	Hign Visibility Indicator

Interface Specification

		
Drive and Flange to ISO5211 configuration for easy direct mount onto a valve or connection with standardized mounting hardw are.	The NAMUR Drive Pinion and NAMUR top mounting connection for direct installation of accessories such as Limit Switch and Positioner.	Air supply connection is designed in accordance w ith NAMUR Standard to install solenoid valve.

Bottom View ISO5211



-Market Leading

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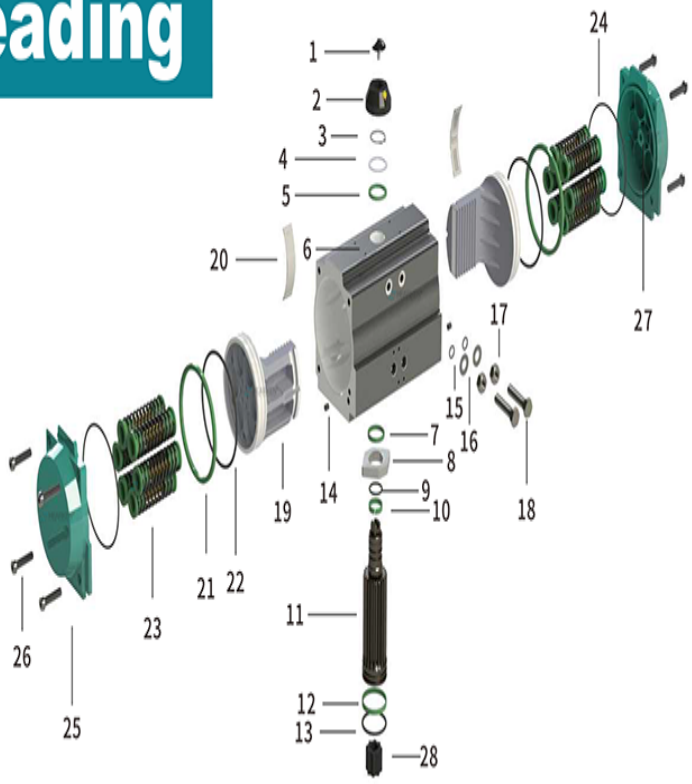

Square Adapter

Star Adapter

	Description	Material	ty		Description	Material	ty
1	Indicator Screw	ABS	1	15	O-ring Adjust Screw	N B R (VITON or EPDM on reuest)	2
2	Position Indicator	ABS	1	16	Washer Adjust Screw	Stainless Steel 304	2
3	Spring Clip	Stainless Steel 304	1	17	N ut Adjust Screw	Stainless Steel 304	2
4	Metal Washer	Stainless Steel 304	1	18	Adjust Screw	Stainless Steel 304	2
5	OeWr asher	Engineering Plastic	1	19	Piston	Die Cast Aluminum Alloy	2
6	Body	Extruded Aluminum Alloy	1	20	Piston B earing	Engineering Plastic/Anodized	2
7	Inner Washer	Engineering Plastic/Hard Anodized	1	21	Bearing Piston	Engineering Plastic	2
8	Travel Stop	AlloySteel	1	22	O-ring Piston	N B R (VITON or EPDM on reuest)	2
9	O-ring Pinoin Top	N B R (VITON or EPDM on reuest)	1	23	Spring Group	Spring Steel	0~12
10	Bearing Pinoin Top	Engineering Plastic	1	24	O-ring End Cap	N B R (VITON or EPDM on reuest)	2
11	Pinion	AlloySteel (Electroless Nickel Plated) /SS304 is Optional	1	25	End Cap	Cast Aluminum/Polyester Paint	2
12	Bearing	Engineering Plastic	1	26	Cap Screw	Stainless Steel 304	8
13	Bearing Pinoin bottom	N B R (VITON or EPDM on reuest)	1	27	Stop Screw	Stainless Steel 304	2
14	Hole Sealant	N B R (VITON or EPDM on reuest)	2	28	Star Adaptor	Carobon Steel	1

Air Consumption And weight Table

Model	DA Weight (Kgs)	SR Weight (Kgs)	Air Volume opening	Air Volume closing	Model	DA Weight (Kgs)	SR Weight (Kgs)	Air Volume opening	Air Volume closing	Model	DA Weigh (Kgs)
DA/SR 032	0.7	-	0.04	0.05	DA/SR 092	4.6	5.2	0.64	0.473	DA/SR 210	47
DA/SR 040	1	1.1	0.08	0.11	DA/SR 105	6.8	6.9	0.95	0.88	DA/SR 240	67
DA/SR 052	1.4	1.5	0.12	0.16	DA/SR 125	8.9	10.1	1.6	1.4	DA/SR 270	97
DA/SR 063	2	2.1	0.21	0.23	DA/SR 140	13	15	2.5	2.2	DA/SR 300	110
DA/SR 063	2.7	2.9	0.3	0.34	DA/SR 063	20	24	3.7	3.2	DA/SR 350	186
DA/SR 083	3.1	3.6	0.43	0.47	DA/SR 190	31	35	5.9	5.4	DA/SR 400	289

Air Volume Opening&Closing

Model	DA Weight (Kgs)	SR Weight (Kgs)	Air volume opening	Air volume closing	Model	DA Weight (Kgs)	SR Weight (Kgs)	Air volume opening	Air volume closing
32	0.7	-	0.04	0.05	140	13	15	2.5	2.2
40	1	1.1	0.08	0.11	160	20	24	3.7	3.2
52	1.4	1.5	0.12	0.16	190	31	35	5.9	5.4
63	2	2.1	0.21	0.23	210	47	55	7.5	7.5
75	2.7	2.9	0.3	0.34	240	67	80	11	9
83	3.1	3.6	0.43	0.47	270	97	118	17	14
92	4.6	5.2	0.64	0.473	300	110	130	23.8	29.7
105	6.8	6.9	0.95	0.88	350	186	234	35.1	46.3
125	8.9	10.1	1.6	1.4	400	289	360	52.6	56