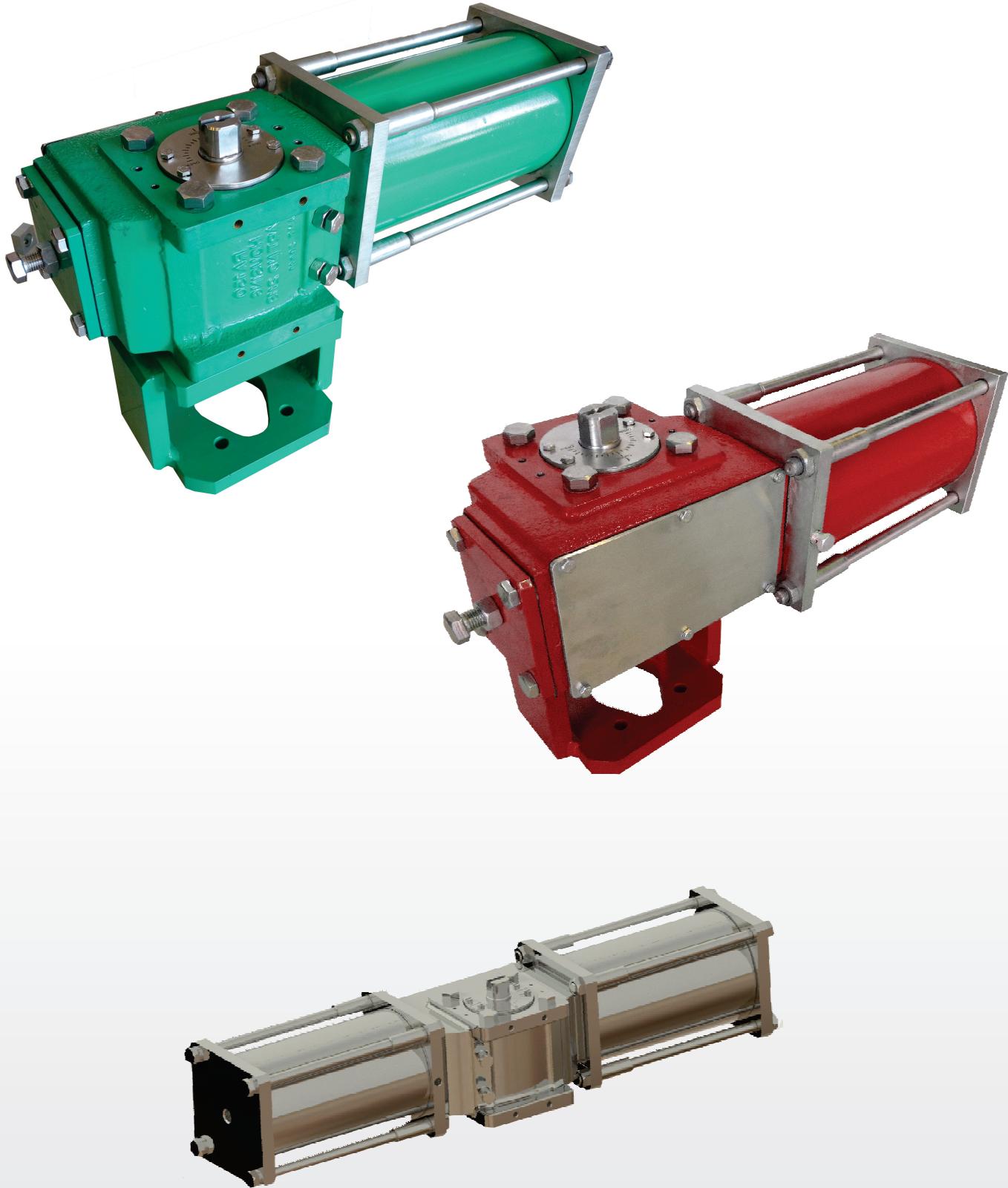


PNEUMATIC PISTON ROTARY ACTUATORS



ENTECH CONTROLS

Rotary Actuators - RPA Series



PNEUMATIC PISTON ROTARY ACTUATORS

PISTON ROTARY ACTUATOR 'RPA' SERIES

STANDARD FEATURES

- All models available as double acting or spring return.
- Torque outputs up to 35280Nm(384350 in-lb).
- Suitable for 60° and 90° operation.
- Open and close travel stops , provided ±3° min.
- Quick response.
- Smooth functioning constant linearity with negligible hysteresis.
- Field reversible design
- All Rotary Piston Actuators Series Certified for IS/IEC Protection Class IP66.
- Actuator mounting dimensions according to ISO 5211.
- Temperature sustaining Capacity from -40° to 100°.

STANDARD OPTIONS

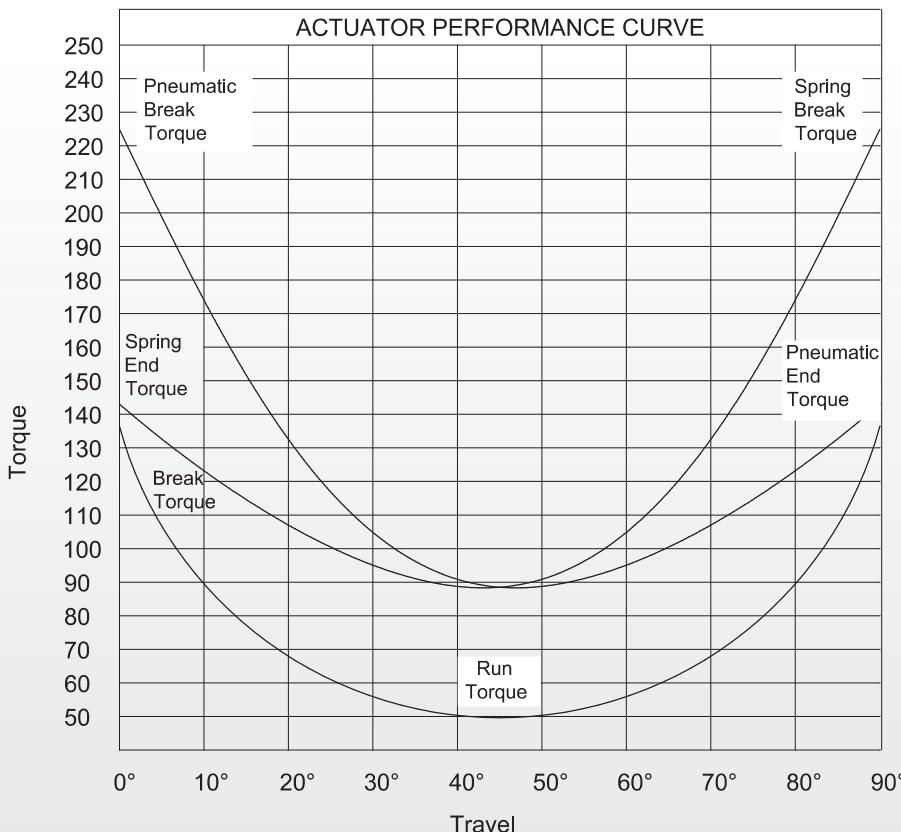
- Jackscrew manual override.
- Jackscrew with gear box manual override.
- Hydraulic hand pump override.
- Fluorosilicone seals for low temperature application upto -60°C(-76°F).
- Viton Seals for High temperature applications up to 200°C(392°F).

TYPICAL APPLICATION

- For on/off or modulating control of any quarter-turn operated valve.

CERTIFICATIONS

- ISO 9001:2008(TUV).
- CE-Machinery Directive 2006/42/EC.
- IS/IEC 60529 Part1-Protection IP66.



PISTON ROTARY ACTUATOR 'RPA' SERIES

TORQUE IN Nm

DOUBLE ACTING TORQUE

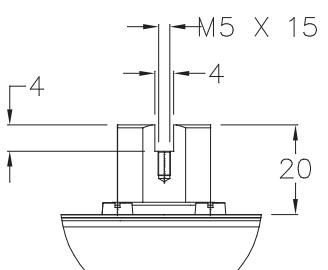
AIR PRESSURE MODEL \	3 bar	4 bar	5 bar	6 bar	7 bar	8 bar
RPA80	44	58	73	87	102	116
RPA80D	79	105	131	157	183	210
RPA100	115	153	191	229	267	306
RPA100D	206	266	332	399	465	532
RPA125	179	239	299	359	418	478
RPA125D	323	431	539	647	755	862
RPA150	412	550	687	824	961	1098
RPA150D	808	1078	1347	1616	1885	2154
RPA200	733	978	1222	1467	1711	1956
RPA200D	1451	1935	2418	2902	3385	3869
RPA250	1396	1862	2327	2793	3258	3724
RPA250D	2514	3352	4189	5027	5865	6703
RPA330	3142	4189	5237	6284	7332	8379
RPA330D	5656	7541	9426	11312	13197	15082
RPA400	4766	6355	7944	9533	11122	12711
RPA400D	8581	11441	14302	17162	20023	22883
RPA500	7350	9800	12250	14700	17150	19600
RPA500D	13230	17640	22050	26460	30870	35280

TORQUE IN in-lb

AIR PRESSURE MODEL \	40 psig	60 psig	80 psig	100 psig	120 psig	140 psig
RPA80	364	546	728	910	1092	1274
RPA80D	624	936	1248	1560	1872	2184
RPA100	946	1418	1891	2364	2837	3310
RPA100D	1734	2600	3467	4334	5200	6068
RPA125	1497	2246	2994	3743	4492	5240
RPA125D	2679	4019	5358	6698	8038	9377
RPA150	3394	5090	6767	8484	10181	11878
RPA150D	6666	9999	13332	16665	19998	23331
RPA200	6060	9090	12120	15150	18180	21210
RPA200D	12120	18180	24240	30300	36360	42420
RPA250	11519	17279	23038	28798	34558	40317
RPA250D	20794	31192	41589	51986	62383	72780
RPA330	25978	38966	51955	64944	77933	90922
RPA330D	46838	70258	93677	117096	140515	163934
RPA400	39557	59335	79114	98892	118670	138449
RPA400D	71242	106862	142483	178104	213725	249346
RPA500	61008	91512	122016	152520	183024	213528
RPA500D	109814	164722	219629	274536	329443	384350

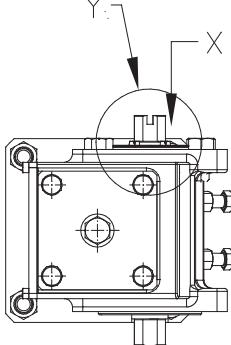
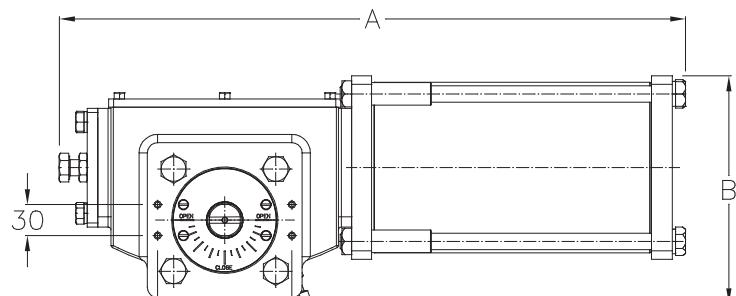
* Specifications are subject to change without notice

PISTON ROTARY ACTUATOR 'RPA' SERIES



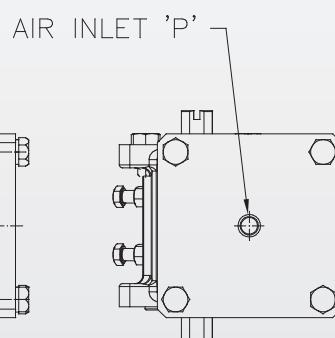
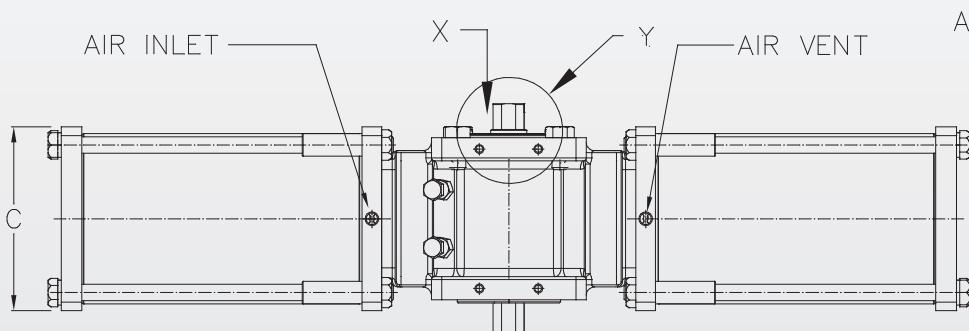
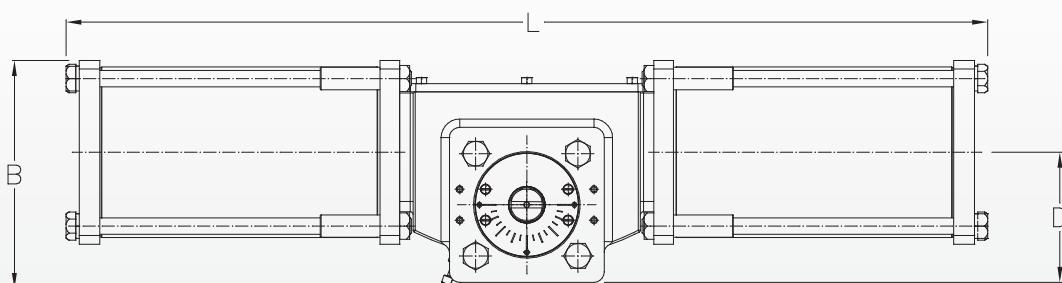
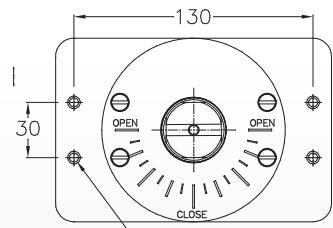
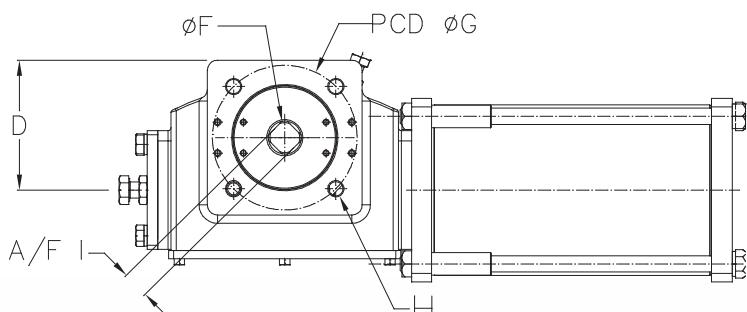
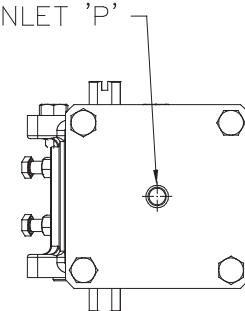
DETAIL Y1

DIMENTIONAL DETAILS



Y2

X



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PISTON ROTARY ACTUATOR 'RPA' SERIES

ACTUATOR DIMENSION TABLE

SIZE	A	B	C	D	E	F	G	H	I	L	P
RPA80SR	310	115	100	65	15	18	70	M8 X 4	14 A/F	470	1/4 NPT
RPA100SR	375	135	110	80	15	18	70	M8 X 4	14 A/F	550	1/4 NPT
RPA125SR	490	174	145	102	20	22	102	M10 X 4	17 A/F	723	1/4 NPT
RPA150SR	608	215	178	126	20	35	140	M16 X 4	26 A/F	900	1/2 NPT
RPA200SR	608	236	220	126	20	35	140	M16 X 4	26 A/F	900	1/2 NPT
RPA250SR	727	315	282	172	40	65	165	M18 X 4	50 A/F	1460	1/2 NPT
RPA330SR	727	354	356	172	40	65	165	M18 X 4	50 A/F	1460	1/2 NPT
RPA400SR	762	452	426	260	77	98	298	M20 X 8	75 A/F	1525	1/2 NPT
RPA500SR	1100	525	520	260	77	98	298	M20 X 8	75 A/F	2100	1/2 NPT

All Dimensions Are in 'mm'.

ACTUATOR WEIGHT

MODEL	WEIGHT in kg.			
	DOUBLE	ACTING	SINGLE	ACTING
	RPA	RPA-D	RPA	RPA-D
RPA80	12	18	15	23
RPA100	17	26	22	33
RPA125	22	33	28	42
RPA150	33	50	42	63
RPA200	45	68	57	86
RPA250	80	120	100	150
RPA330	130	195	163	245
RPA400	180	270	225	169
RPA500	200	300	250	188

AIR CONSUMPTION

Actuator Model Singal act.	SWEPT Volume cu. in.	Set Pressure bar	Total Air Consumption in SCFM	Total Air Consumption in Nm ³ /hr	Total Air Consumption in kg/hr
RPA80SR	17.5	4	0.2	0.34	0.44
RPA80SR-D	35	4	0.4	0.68	0.88
RPA100SR	24	4	0.28	0.47	0.61
RPA100SR-D	48	4	0.56	0.94	1.22
RPA125SR	58.8	4	0.59	1	1.3
RPA125SR-D	117.6	4	1.18	2	2.6
RPA150SR	141	4	1.66	2.82	3.65
RPA150SR-D	282	4	3.32	5.64	7.3
RPA250SR	387.5	4	4.572	7.77	10.05
RPA250SR-D	775	4	9.14	15.54	20.1
RPA330SR	792	4	4.66	7.92	10.21
RPA330SR-D	1584	4	9.32	15.84	20.42
RPA400SR	1220.16	4	7.16	12	15.48
RPA400SR-D	2440.3	4	14.32	24	30.96
RPA500SR	3720	4	10.93	18.6	24
RPA500SR-D	7440	4	21.86	37.2	48

ORDERING CODE

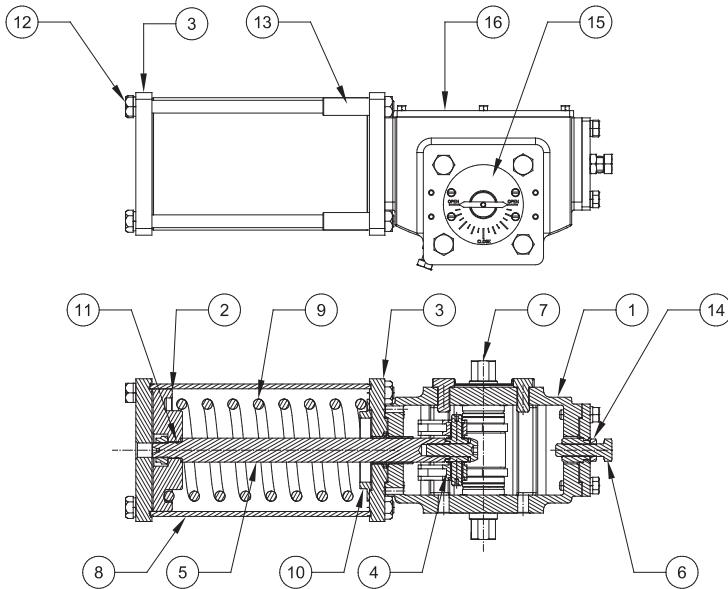
MODEL	ACTION	CODE	TYPE	CODE	ROTATION	CODE	MATERIAL	CODE	SEALS	CODE	MANUAL OVERRIDE	CODE	COATING	CODE
RPA80	DOUBLE ACTING	DOU	SINGLE CYLINDER	S	60°	CCW	CARBON STEEL	CS	NBR -N	N	JACK SCREW	J	EPOXY COATED	E
RPA100	SINGLE ACTING	SR	TWIN CYLINDER	D		CW	ALUMINIUM	AL	VITON -V	V	GEAR BOX	G	PU COATED	P
RPA125					90°	CCW	STAINLESS STEEL	S	SILICON -SI	SI	HYDRAULIC	H		
RPA150						CW								
RPA200														
RPA250														
RPA330														
RPA400														
RPA500														

ORDERING EXAMPLE

RPA250	DOU	S	60CCW	CS	N	J	E
RPA250DOUS60CCWCSNJE							

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CROSS SECTION DRAWING



BILL OF MATERIAL

SR. NO.	PART NAME	QTY	MATERIAL
1	HOUSING	1	S. G. IRON
2	PISTON	1	ALLOY STEEL
3	END PLATE	1	C.S.
4	LEVER ARM SUB ASSEMBLY	1	ALLOY STEEL
5	ACTUATOR SHAFT	1	ALLOY STEEL
6	HEX BOLT	1	SS304
7	LEVER ARM SHAFT	1	ALLOY STEEL
8	CYLINDER	1	C.S. + HARD CHROME
9	SPRING	1	SPRING STEEL
10	SPRING GUIDE	1	C.S.
11	O-RING	1	NBR
12	TIE ROD	4	B7
13	TIE ROD SLEEVE NUT	4	2H
14	HEX JAM NUT	1	SS304
15	ROTARY INDICATOR	1	SS304
16	HOUSING SIDE COVER	1	SS304



ENTECH CONTROLS

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