

ELTORQUE Aluminum Pneumatic Single Acting Actuator

Datasheet

ACTUATOR SERIES :P40; P50; P65; P75; P85; P100; P110; P125; P140; P160; P190; P210; P240; P270; P300; P350; P400;

TORQUE RATING	SEE TORQUE OUTPUT TABLE
VALVE APPLICATIONS	BUTTERFLY AND BALL VALVE. (MAX VALVE SIZE DEPENDS ON VALVE SPECIFICATION)

PHYSICAL PROPERTIES

DESIGN	DUAL PISTON RACK AND PINION DESIGN FOR COMPACT CONSTRUCTION
HOUSE MATERIAL AND FINISH	EXTRUDED ALUMINUM ALLOY
PINION MATERIAL	ALLOY STEEL ,NICKEL/CHROME TREATMENT
PISTON MATERIAL	EXTRUDED ALUMINUM ALLOY
WEIGHT	SEE BELOW SHEET TABLE
AIR CONNECTION	G1/4" OR G1/2" OR G1/8"
MOUNTING FLANGE	ACCORDING TO ISO5211 STANDARD
SURFACE TREATMENT	HARD OXIDATION OR OTHER OPTIONAL TREATMENT:PTFE OR NICKEL OR POWDER POLYESTER PAINTED
IP GRADE, APPLICATION	IP 68, DRY
COLOUR	NONE

OPERATING CONDITIONS

AIR SUPPLY PRESSURE	2-8 BAR
OPERATING TEMPERATURE	STANDARD:-20°C--+80°C LOW:-40°C--+80°C HIGH:-20°C--+150°C
TRAVEL ADJUSTMENT	HAVE ADJUSTMENT RANGE OF ±5° FOR THE ROTATION AT 90°
LUBRICATION	UNDER NORMAL OPERATION CONDITION, NEED NOT ACCRETE LUBRICANT
HIGHEST PRESSURE	9 BAR

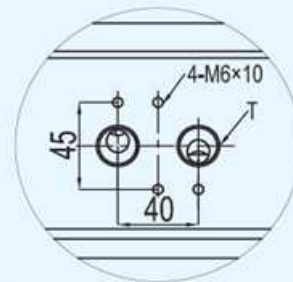
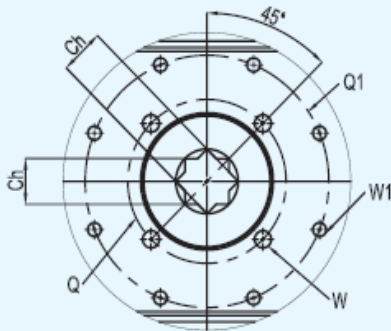
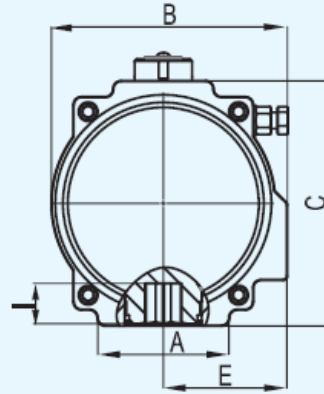
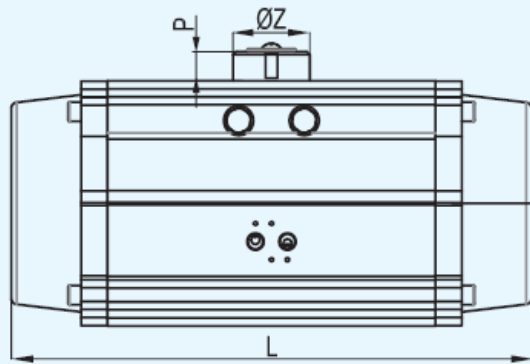
MOUNTING AND OPERATING STANDARD

Air supply connection is designed in accordance with NAMUR standard to install solenoid valves.

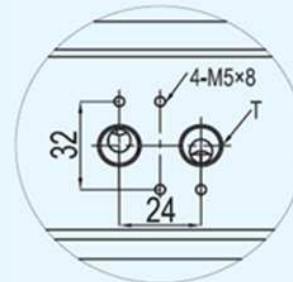
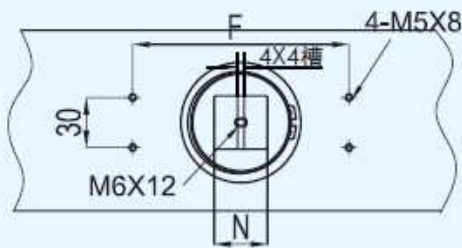
Bottom mounting connection is designed in accordance with ISO5211 standard for direct mounting with valve gear boxes or mounting bracket .

NOTE : ABOVE IS FOR REFERENCE , IF THERE IS ANY CHANGE WILL INFORM.





G1/2 NAMUR



G1/4 NAMUR

SERIES	A	B	C	L	E	F	P	ØZ	N	I	FLANGE	Q	Q1	W	W1	CH	T	WEIGHT
P40	37	47	50	110	27	50	20	40	10	10	F03	/	36	/	M5x9	9x9	G1/8"	0.59kg
P50	45	70.5	70	154	41.5	80	20	40	10	12	F03/05	36	50	M5x7.5	M6x9	11x11	G1/4"	1.25kg
P65	62	89.5	89	189	51.5	80	20	40	10	16	F05/07	50	70	M6x9	M8x12	14x14	G1/4"	2.21kg
P75	68	102.5	100	210	59	80	20	40	14	16	F05/07	50	70	M6x9	M8x12	14x14	G1/4"	3.29kg
P85	68	112.5	113	229	63.5	80	20	40	14	19	F05/07	50	70	M6x9	M8x12	17x17	G1/4"	4.26kg
P100	92	126	123	264	71	80	20	40	14	19	F05/07	70	102	M6x9	M8x12	17x17	G1/4"	5.86kg
P110	93	138.5	136	266	76.5	80	20	40	14	19	F07/10	70	102	M8x12	M10x15	17x17	G1/4"	7.17kg
P125	96	157	161	337	85	80	30	56	22	25	F07/10	70	102	M8x12	M10x15	22x22	G1/4"	12.54kg
P140	110	178	178	377	97	80	30	56	22	31	F10/12	102	125	M8x12	M12x18	27x27	G1/4"	15.93kg
P160	112	196	200	412	106	130	30	56	22	31	F10/12	102	125	M10x15	M12x18	27x27	G1/4"	23.75kg
P190	136	216.5	232	488	112	130	30	56	22	41	F10/14	102	140	M10x15	M16x24	36x36	G1/4"	33.81kg
P210	140	235.5	255	550	120	130	30	80	32	40	F14	/	140	/	M16x24	36x36	G1/4"	48.43kg
P240	159	262	292	602	131	130	30	80	32	50	F16	/	165	/	M20x28	46x46	G1/2"	77.76kg
P270	159	295	331	672	147	130	30	80	32	50	F16	/	165	/	M20x28	46x46	G1/2"	90.6kg
P300	180	335	354	784	173	130	30	80	32	50	F16	/	165	/	M20x28	46x46	G1/2"	135.6kg
P350	270	385	410	845	195	130	30	80	32	50	F16/25	165	254	M20x28	M16x30	46x46	G1/2"	188.1kg
P400	290	520	466	956	260	130	30	80	32	60	F25	/	254	/	M16x30	55x55	G1/2"	283.5kg

SINGLE ACTING TORQUE RATINGS IN NM

MODEL	Input air pressure																		SPRING STORCKE				
	2.5Bar		3Bar		3.5Bar		4Bar		4.5Bar		5Bar		5.5Bar		6Bar		7Bar				8Bar		
	Output torque (N.m) of air to springs																		90°	0°			
	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	90°	0°	
P40.004.4					4.3	2.5	5.5	3.7	6.7	4.9	8	6.2	9.2	7.4	10.4	8.6	12.9	11.1	15.4	13.6	5.6	3.8	
P40.005.4							4.6	2.3	5.9	3.5	7.1	4.7	8.3	6	9.6	7.2	12	9.7	14.5	12.1	7.1	4.7	
P40.006.4									4.9	2	6.1	3.2	7.3	4.5	8.6	5.7	11	8.2	13.5	10.6	8.6	5.7	
P50.005.4	5.1	3.4	6.9	5.3	8.8	7.2	10.7	9	12.5	10.9	14.4	12.8	16.3	14.6	18.1	16.5	21.9	20.2	25.6	23.9	5.2	3.5	
P50.006.4	4.4	2.4	6.2	4.3	8.1	6.1	10	8	11.8	9.9	13.7	11.7	15.6	13.6	17.4	15.5	21.2	19.2	24.9	22.9	6.2	4.2	
P50.007.4			5.5	3.2	7.4	5.1	9.3	7	11.1	8.8	13	10.7	14.9	12.6	16.7	14.4	20.5	18.2	24.2	21.9	7.2	4.9	
P50.008.4					6.7	4.1	8.6	5.9	10.4	7.8	12.3	9.7	14.2	11.5	16	13.4	19.8	17.1	23.5	20.9	8.2	5.6	
P50.009.4							7.9	4.9	9.7	6.8	11.6	8.6	13.5	10.5	15.3	12.4	19.1	16.1	22.8	19.8	9.3	6.3	
P50.010.4									9	5.7	10.9	7.6	12.8	9.5	14.6	11.3	18.4	15.1	22.1	18.8	10.3	7	
P50.011.4												10.2	6.6	12.1	8.4	13.9	10.3	17.7	14	21.4	17.8	11.3	7.7
P50.012.4													11.4	7.4	13.2	9.3	17	13	20.7	16.7	12.4	7.4	
P65.005.4	8.7	4.3	12.5	8.1	16.3	11.9	20	15.6	23.8	19.4	27.6	23.2	31.4	27	35.2	30.8	42.7	38.3	50.3	45.9	13.1	8.7	
P65.006.4	7	1.7	10.7	5.5	14.5	9.2	18.3	13	22.1	16.8	25.9	20.6	29.7	24.4	33.4	28.2	41	35.7	48.6	43.3	15.7	10.4	
P65.007.4			9	2.8	12.8	6.6	16.6	10.4	20.4	14.2	24.1	18	27.9	21.8	31.7	25.5	39.3	33.1	46.8	40.7	18.3	12.2	
P65.008.4					11	4	14.8	7.8	18.6	11.6	22.4	15.4	29.1	21.8	30	22.9	37.5	30.5	45.1	38.1	21	13.9	
P65.009.4							13.1	5.2	16.9	9	20.7	12.7	24.4	16.5	28.2	20.3	35.8	27.9	43.4	35.4	23.6	15.7	
P65.010.4									15.1	6.3	18.9	10.1	22.7	13.9	26.5	17.7	34	25.2	41.6	32.8	26.2	17.4	
P65.011.4											17.2	7.5	21	11.3	24.7	15.1	32.3	22.6	39.9	30.2	28.8	19.1	
P65.012.4													19.2	8.7	23	12.4	30.6	20	38.1	27.6	31.4	20.9	
P75.005.4	16.3	10.2	22.2	16	28.1	21.9	34	27.8	39.8	33.7	45.7	39.6	51.6	45.4	57.5	51.3	69.2	63.1	81	74.8	16.9	10.7	
P75.006.4	14.2	6.8	20.1	12.7	25.9	18.6	31.8	24.4	37.7	30.3	43.6	36.2	49.4	42.1	55.3	47.9	67.1	59.7	78.8	71.4	20.2	12.8	
P75.007.4			17.9	9.3	23.8	15.2	29.7	21.1	35.6	26.9	41.4	32.8	47.3	38.7	53.2	44.6	64.9	56.3	76.7	68.1	23.6	15	
P75.008.4					21.7	11.8	27.5	17.7	33.4	23.6	39.3	29.4	45.2	35.3	51	41.2	62.8	53	74.5	64.7	27	17.1	
P75.009.4							25.4	14.3	31.3	20.2	37.1	26.1	43	32	48.9	37.8	60.7	49.6	72.4	61.3	30.3	19.3	
P75.010.4									29.1	16.8	35	22.7	40.9	28.6	46.8	34.5	58.5	46.2	70.3	58	33.7	21.4	
P75.011.4											32.9	19.3	38.7	25.2	44.6	31.1	56.4	42.8	68.1	54.6	37.1	23.5	
P75.012.4													36.6	21.8	42.5	27.7	54.2	39.5	66	51.2	40.4	25.7	
P85.005.4	23.2	13.7	31.8	22.3	40.4	30.9	49	39.5	57.6	48.1	66.3	56.8	74.9	65.4	83.5	74	100.8	91.3	118	108.5	26.1	16.6	
P85.006.4	19.8	8.4	28.4	17	37.1	25.7	45.7	34.3	54.3	42.9	62.9	51.5	71.6	60.2	80.2	68.8	97.4	86	114.7	103.3	31.3	19.9	
P85.007.4			25.1	11.8	33.8	20.5	42.4	29.1	51	37.7	59.6	46.3	68.3	55	76.9	63.6	94.1	80.8	111.4	98.1	36.5	23.2	
P85.008.4					30.4	15.2	39.1	23.9	47.7	32.5	56.3	41.1	64.9	49.7	73.6	58.4	90.8	75.6	108.1	92.9	41.7	26.5	
P85.009.4							35.8	18.7	44.4	27.3	53	35.9	61.6	44.5	70.3	53.2	87.5	70.4	104.8	87.7	46.9	29.8	
P85.010.4									41.1	22.1	49.7	30.7	58.3	39.3	67	48	84.2	65.2	101.1	82.5	52.1	33.1	
P85.011.4											46.4	25.5	55	34.1	63.6	42.7	80.9	60	98.1	77.2	57.3	36.4	
P85.012.4													51.7	28.9	60.3	37.5	77.6	54.8	94.8	82	62.5	39.7	
P100.005.4	33.6	20.9	45.8	33	57.9	45.1	70	57.3	82.1	69.4	94.3	81.5	106.4	93.6	118.5	105.8	142.7	130	167	154.2	34.9	22.1	
P100.006.4	29.2	13.9	41.4	26.1	53.5	38.2	65.6	50.3	77.7	62.4	89.8	74.5	102	86.7	114.1	98.8	138.3	123	162.6	147.3	41.8	26.5	
P100.007.4			36.9	19.1	49.1	31.2	61.2	43.3	73.3	55.4	85.4	67.6	97.5	79.7	109.7	91.8	133.9	116.1	158.1	140.3	48.8	30.9	
P100.008.4					44.6	24.2	56.8	36.4	68.9	48.5	81	60.6	93.1	72.7	105.2	84.8	129.5	109.1	153.7	133.3	55.8	35.4	
P100.009.4							52.3	29.4	64.5	41.5	76.6	53.6	88.7	65.8	100.8	77.9	125.1	102.1	149.3	126.4	62.7	39.8	
P100.010.4									60	34.5	72.2	46.7	84.3	58.8	96.4	70.9	120.6	95.1	144.9	119.4	69.7	44.2	
P100.011.4											67.7	39.7	79.9	51.8	92	63.9	116.2	88.2	140.5	112.4	76.7	48.6	
P100.012.4													75.4	44.8	87.6	57	111.8	81.2	136	105.4	83.6	53	
P110.005.4	43.4	26.2	60.7	43.4	76.4	59.1	74.8	74.8	107.7	90.4	123.4	106.1	139	121.8	154.7	137.4	186	168.8	217.3	200.1	45.9	28.6	
P110.006.4	37.7	17	55	34.3	70.6	49.9	65.6	65.6	102	81.3	117.6	96.9	133.3	112.6	149	128.3	180.3	159.6	211.6	190.9	55	34.3	
P110.007.4			49.3	25.1	64.9	40.8	56.4	56.4	96.2	72.1	111.9	87.8	127.6	103.4	143.2	119.1	174.6	150.4	205.9	181.8	64.2	40	
P110.008.4					59.2	31.6	47.3	47.3	90.5	62.9	106.2	78.6	121.9	94.3	137.5	109.9	168.9	141.3	200.2	172.6	73.4	45.8	
P110.009.4							38.1	38.1	84.8	53.8	100.5	69.4	116.1	85.1	131.8	100.8	163.1	132.1	194.5	163.4	82.5	51.5	
P110.010.4									79.1	44.6	94.8	60.3	110.4	75.9	126.1	91.6	157.4	122.9	188.7	154.2	91.7	57.2	
P110.011.4											89	51.1	104.7	66.7	120.4	82.4	151.7	113.7	183	145.1	100.9	62.9	
P110.012.4													99	57.6	114.6	73.2	146	104.6	177.3	135.9	110	68.6	

