

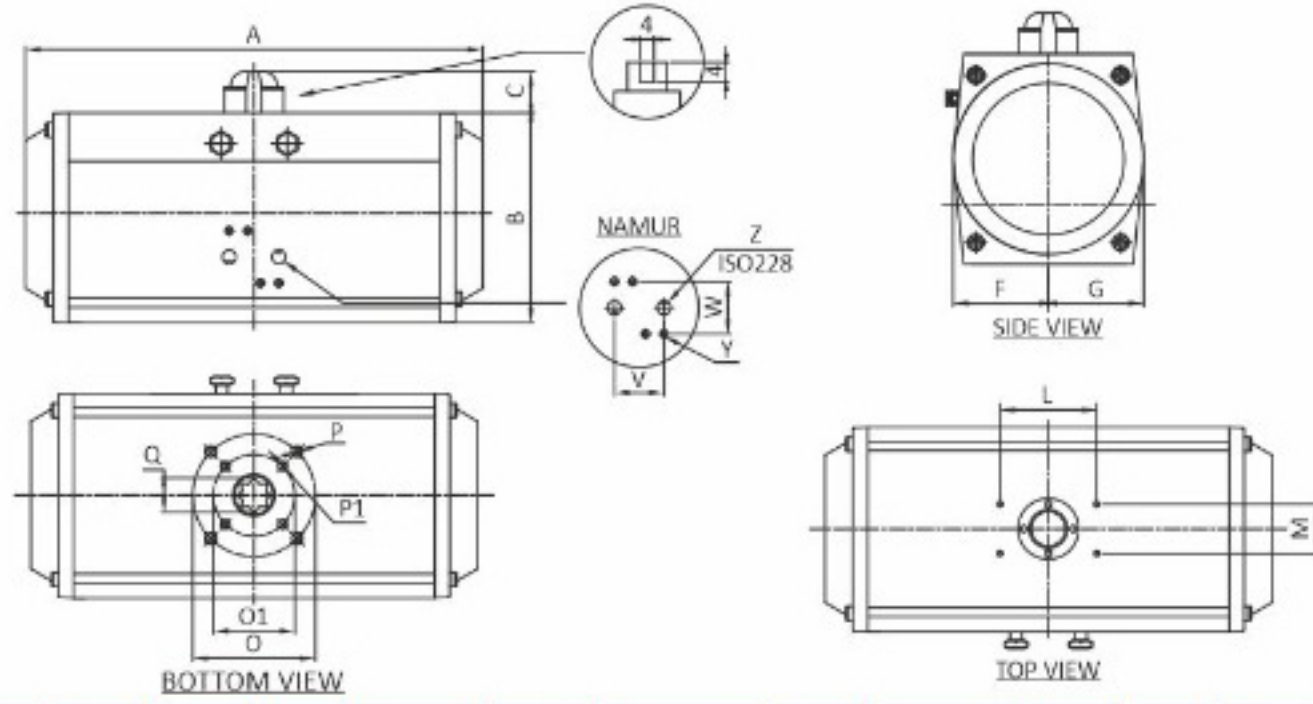
Pneutork Offers ISO 5211 Standard Pneumatic Actuator for all your 90° / 180° Valves & Damper Automation Requirements.



- 1. Hard Anodized :** Barrel / Body to Protect from Hazardous atmosphere & corrosion, which enhance life of actuator
- 2. Namur Standard Pinion Top :** (An International Standard) The pinion (shaft) top drilled and slotted for easy assembling of switch, positioners and other accessories.
- 3. Namur pad for Solenoid Valve :** (An International Standard) Air supply ports are Include On Body as per NAMUR standard to facilitate direct mounting of solenoid valve at actuator.
- 4. ISO - 5211 Standard Mounting for Valve :** (An International Standard) Double bottom drilling for actuator to valve Assembling & centering. Designed for strength and easy mounting or interchangeability.
- 5. ISO - 5211 Standard Pinion Bottom :** (An International Standard) Bottom of the pinion (Shaft) as female key, double square hole for assembling on valves with square key stem and in line or turned to 45°. Designed for strength and sure-fix with stem
- 6. Sliding Skates :** The innovation for replaceable sliding skates, between Pistons (Racks) and internal bore surface of the Actuator, just to avoid metal contact, which enhances the Actuator life
- 7. Compact Design :** "Pneutork" Actuators are designed as compact double acting which offers high torque values. Internal sliding surface, lapped and anodized for minimum friction and long life of actuator.

Specification

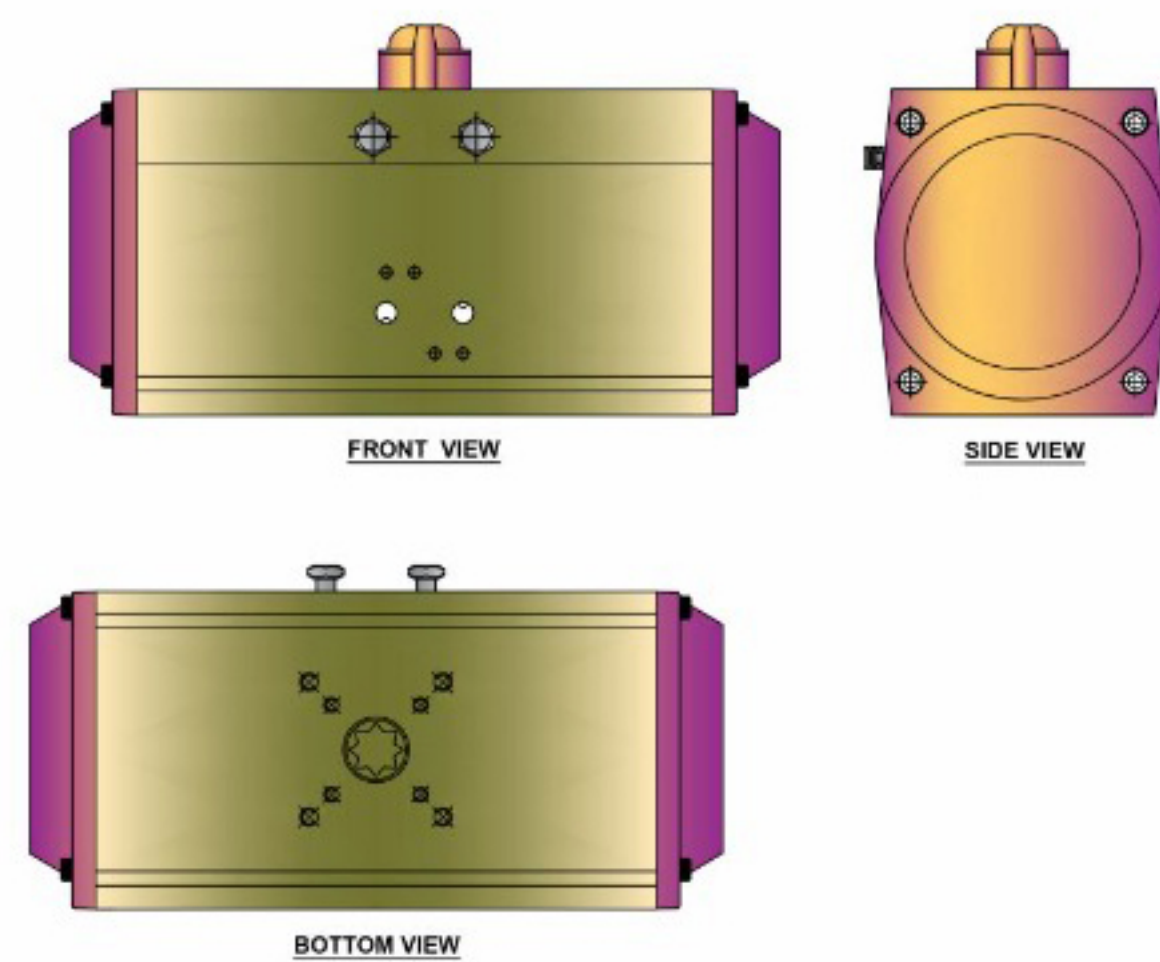
Air Supply	4 to 7 Bar
Minimum Air Supply	5 Kg/cm ²
Actuator Design	ISO 5211
Position On Air Failure	Air to Open - Air to Close



Dimensions :

Model	ISO Flange	A	B	C	E	F	G	L	M	N	O	P	O1	P1	Q	V	W	Y	Z
PT052	F03/F05	154	73	25	13	41	30	80	30	4-M5X9	50	4-M6X9	36	4-M5X8	11	24	36	4-M5X9	G1/4"
PT063	F05/F07	176	89	25	17	47	36	80	30	4-M5X9	70	4-M8X12	50	4-M6X9	14	24	36	4-M5X9	G1/4"
PT075	F05/F07	188	101	25	17	53	43	80	30	4-M5X9	70	4-M8X12	50	4-M6X9	14	24	36	4-M5X9	G1/4"
PT083	F05/F07	211	110	25	20	57	47	80	30	4-M5X9	70	4-M8X12	50	4-M6X9	17	24	36	4-M5X9	G1/4"
PT092	F07/F10	244	118	25	20	60	50	80	30	4-M5X9	102	4-M10X15	70	4-M8X12	17	24	36	4-M5X9	G1/4"
PT105	F07/F10	277	135	25	25	64	58	80	30	4-M5X9	102	4-M10X15	70	4-M8X12	22	24	36	4-M5X9	G1/4"
PT125	F07/F10	310	157	39	27	75	67	80	30	4-M5X9	102	4-M10X15	70	4-M8X12	22	24	36	4-M5X9	G1/4"
PT140	F10/F12	394	175	39	30	75	75	130	30	4-M5X9	125	4-M12X18	102	4-M8X15	27	24	36	4-M5X9	G1/4"
PT160	F10/F12	458	198	39	30	86	86	130	30	4-M5X9	125	4-M12X18	102	4-M8X15	27	24	36	4-M5X9	G1/4"
PT190	F14	523	232	39	38	103	103	130	30	4-M5X9	140	4-M16X24	----	----	36	24	36	4-M5X9	G1/4"
PT210	F14	526	257	39	38	113	113	130	30	4-M5X9	140	4-M16X24	----	----	36	24	36	4-M5X9	G1/4"
PT240	F16	602	289	30	50	130	130	130	30	4-M5X9	165	4-M20X25	----	----	46	24	36	4-M5X9	G1/4"
PT270	F16	718	326	30	50	147	147	130	30	4-M5X9	165	4-M20X25	----	----	46	40	45	4-M6X10	G1/2"
PT300	F15	760	350	30	50	174	162	130	30	4-M5X9	165	4-M20X25	----	----	46	40	45	4-M6X10	G1/2"
PT350	F16/F25	920	410	30	50	195	190	130	30	4-M5X9	254	4-M16X25	165	4-M20X25	46	40	45	4-M6X10	G1/2"
PT400	F16/F25	940	466	30	50	260	260	130	30	4-M5X9	254	4-M20X25	165	4-M20X25	46	40	45	4-M6X10	G1/2"

(All Dimensions are in mm)



No.	Qty.	Particulars	Materials
01	1	Body	Cast Iron / WCB / S. S. 304 / S. S. 316
02	1	Disc	S. G. Iron / S. S. 304 / S. S. 316
03	1	Molded Seat	Nitrile / EPDM / Viton / Silicon
04	1	Shaft	AISI 410 / AISI 304 / AISI 316
05	1	Bottom Pin	AISI 410 / AISI 304 / AISI 316
06	1	D/A Pneumatic Actuator	Aluminium Pressure Die Cast

"Pneutork" ACTUATOR SELECTION CHART

Selection of Double Acting Actuator

- Conclude your required torque valve.
- Increase 15% for an acceptable safety factor.
- Now look on torque chart and find near by higher torque value of your required torque.
- The found position shows the model of "Pneutork" actuator and working pressure in bar, we need.

Example

- Suppose we need 55 Nm torque to drive a valve.
- Increase 15%-63.25 Nm for safety factor.
- In below table the nearby higher torque value is 70 at working pressure 6 bar
- This indicators to select the "Pneutork" actuator model ---

Output Torque Double Acting Actuator (Nm)

Model	2.0 Bar	2.5 Bar	3.0 Bar	4.0 Bar	4.5 Bar	5.0 Bar	5.5 Bar	6.0 Bar	7.0 Bar	8.0 Bar
PT052	8	10	12	16	18	20	22	24	28	32
PT063	15	18	22	29	33	36	40	44	51	58
PT075	20	25	30	40	45	50	55	60	70	80
PT083	31	39	47	63	70	78	86	94	111	125
PT092	45	56	68	90	102	113	124	135	158	181
PT105	66	83	99	132	149	165	182	198	231	264
PT125	100	125	150	200	226	251	276	301	351	401
PT140	171	214	256	342	385	427	470	513	598	684
PT160	266	332	399	532	598	665	731	798	931	1064
PT190	420	532	638	851	958	1064	1170	1277	1490	1702
PT210	532	665	798	1064	1197	1330	1463	1596	1862	2128
PT240	769	962	1154	1539	1731	1924	2116	2308	2693	3078
PT270	1170	1462	1750	2339	2632	2924	3216	3509	4094	4579
PT300	1526	1908	2289	3052	3434	3815	4197	4578	5341	6104
PT350	2285	2856	3427	4570	5141	5712	6283	6854	7997	9139
PT400	3256	4070	4884	6512	7326	8140	8954	9768	11396	13024

Output Torque Single Acting Actuator (SPRING RETURN) (Nm)

Model	Spring Quantity	Air Pressure Torque											
		4 Bar		5 Bar		6 Bar		7 Bar		8 Bar		Spring Return Torque	
		0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End
PT052S	10	7.4	3.6	11.5	6.7	15.5	11.6	19.5	15.6	---	---	12.4	8.5
PT063S	10	1.4	8.2	22.8	15.6	30	22.8	37.3	30.1	44.7	37.4	20.9	13.7
PT075S	10	19	11.1	28.8	21.2	39	31.2	49.1	41.2	59.1	51.2	29	21.1
PT083S	10	31	16.6	46.7	32.3	62.4	48	78.1	63.7	93.8	79.3	46	31.6
PT092S	10	43.6	21.5	66.2	44.1	88.8	66.7	111.3	89.2	134	11.8	68.7	46.7
PT105S	10	68.9	33.4	102	66.5	135.1	99.6	161.8	123.1	201.2	165.7	98.4	63.3
PT125S	10	96	44	146	94	196	144	247	194	297	245	157	105
PT140S	10	170	84	226	169	314	255	427	340	512	426	258	172
PT160S	10	253	115	386	248	519	381	652	514	785	647	417	279
PT190S	10	451	233	664	446	877	658	1090	871	1302	1084	618	400
PT210S	10	514	304	780	570	1046	836	1312	1102	1578	1368	760	550
PT240S	10	718	431	1103	816	1488	1201	1872	1586	2257	1970	1108	821
PT270S	10	1220	767	1805	1352	2390	1937	2974	2521	3560	3107	1572	1119
PT300S	10	1430	695	2355	1693	2956	2221	3719	2984	4482	3747	2122	1460
PT350S	10	1963	787	3105	1929	4247	3071	5390	4214	6532	5356	3405	2346
PT400S	10	3012	1025	4640	2653	6268	4281	7895	5908	9523	7536	4938	3149