

PNEUMATIC ACTUATOR

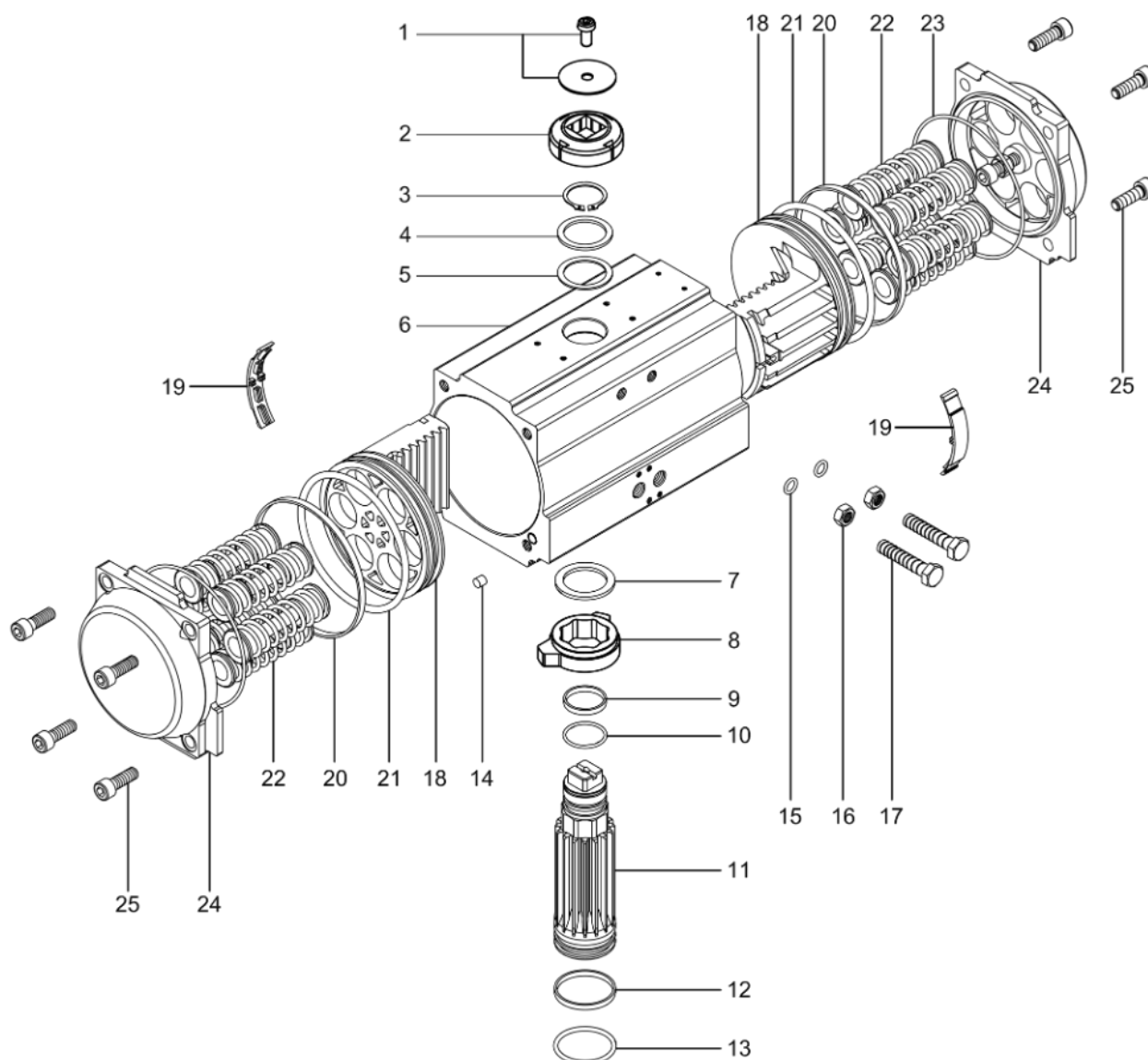
SERIES WT



WT Series

Pneumatic Actuator

Parts and Material



WT Series

Pneumatic Actuator

Parts and Material

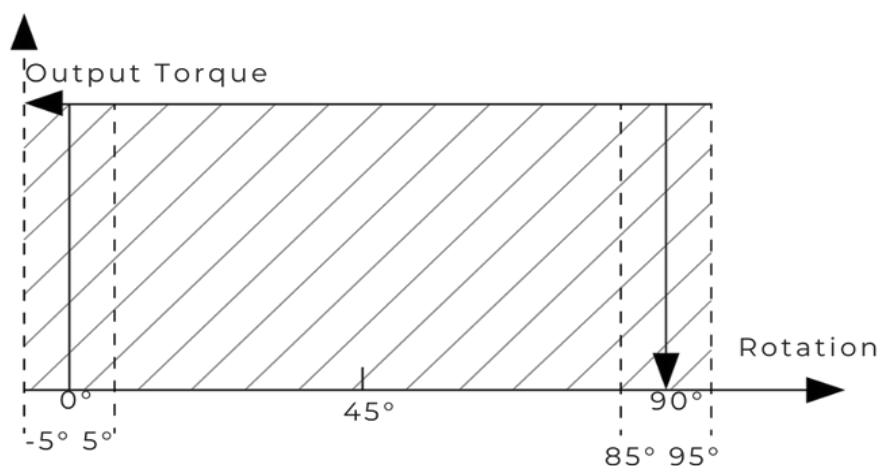


NO.	Description	Qty	Standard Material	Protection	Optional Material
1	Indicator screw/washer	1	Stainless Steel		
2	Indicator	1	Plastic		
3	Spring clip	1	Stainless Steel		
4	Thrust washer	1	Stainless Steel		
5	Outside washer	1	Engineering Plastics		
6	Body	1	Extruded Aluminum Alloy	Hard anodized	
7	Inside washer	1	Engineering Plastics		
8	Cam	1	Alloy Steel		
9	Bearing(pinion top)	1	Engineering Plastics		
10	O-ring (pinion top)	1	NBR		Viton/Silicone
11	Pinion	1	Alloy Steel	Nickel plated	Stainless Steel
12	Bearing (pinion bottom)	1	Engineering Plasti		
13	O-ring (pinion bottom)	1	NBR		Viton/Silicone
14	Plug	2	NBR		Viton/Silicone
15	O-ring(Adjust screw)	2	NBR		Viton/Silicone
16	Nut (Adjust screw)	2	Stainless Steel		
17	Adjust screw	2	Stainless Steel		
18	Piston	2	Cast Aluminum	Hard Anodized	Stainless Steel
19	Guide(Piston)	2	Engineering Plastics		
20	Bearing (Piston)	2	Engineering Plastics		
21	O-ring(Piston)	2	NBR		Viton/Silicone
22	Spring	0-12	Spring Steel	Dip Coating	
23	O-ring(End cap)	2	NBR		Viton/Silicone
24	End cap	2	Cast Aluminum	Powder Polyster Painted	
25	Cap screw	8	Stainless Steel		

Output Torque of Double Acting Actuator

Unit:Nm

Model	Air supply pressure (Unit:bar)									
	2	2.5	3	4	4.5	5	5.5	6	7	8
WT052	8.1	10.1	12.1	16.1	18.6	20.2	22.2	24.2	28.2	32.3
WT063	14.2	17.8	21.3	28.4	32.7	35.5	39.1	42.6	49.7	56.8
WT075	20.1	25.2	30.2	40.3	46.3	50.3	55.4	60.4	70.5	80.5
WT083	30.8	38.5	46.2	61.6	70.9	77.1	84.8	92.5	107.9	123.3
WT092	45.4	56.8	68.2	90.9	104.5	113.6	125.0	136.3	159.1	181.8
WT105	65.8	82.2	98.7	131.6	151.3	164.4	180.9	197.3	230.2	263.1
WT125	102.5	128.2	153.8	205.1	235.8	256.4	282.0	307.6	358.9	410.2
WT140	175	219	263	351	403	439	482	526	614	702
WT160	267	334	401	535	615	668	735	802	935	1069
WT190	431	538	646	861	991	1077	1185	1292	1508	1723
WT210	526	658	789	1052	1210	1316	1447	1579	1842	2105
WT240	773	966	1160	1546	1778	1933	2126	2320	2706	3093
WT270	1174	1468	1761	2349	2701	2936	3229	3523	4110	4697
WT300	1526	1908	2289	3052	3510	3815	4197	4578	5341	6104
WT350	2285	2856	3427	4570	5255	5712	6283	6854	7997	9139
WT400	3256	4069	4883	6511	7488	8139	8953	9767	11394	13022

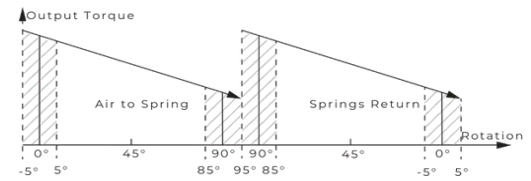


WT Series

Pneumatic Actuator



Output Torque of Single Acting Actuator



Output torque of air to springs																						Unit: Nm			
Air pressure		2 BAR		2.5 BAR		3 BAR		4 BAR		4.5 BAR		5 BAR		5.5 BAR		6 BAR		7 BAR		8 BAR		Springs/output			
Model	Spring Qty.	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	90°	0°		
WT052	K5	3.6	1.6	5.6	3.6	7.6	5.6															6.2	4.2		
	K6			4.7	2.3	6.8	4.3	10.8	8.3													7.4	5.1		
	K7					5.9	3.0	9.9	7.0	12.3	9.5	13.9	11.1									8.6	5.9		
	K8							9.0	5.7	11.4	8.2	13.0	9.8	15.1	11.8							9.9	6.8		
	K9							8.1	4.4	10.5	6.9	12.2	8.5	14.2	10.5	16.2	12.5					11.1	7.6		
	K10							7.2	3.1	9.7	5.6	11.3	7.2	13.3	9.2	15.3	11.2	19.3	19.3			12.4	8.5		
	K11											10.4	5.9	12.4	7.9	14.4	9.9	18.4	18.4	22.5	18.0	13.6	9.3		
WT063	K5	6.4	2.6	10.0	6.2	13.5	9.7									11.5	6.6	13.5	8.6	17.6	17.6	21.6	16.7	14.8	10.1
	K6			8.4	3.9	12.0	7.4	19.1	14.5														11.0	7.4	
	K7					10.4	5.1	17.5	12.2	21.8	16.5	24.6	19.3										13.2	8.9	
	K8							15.9	9.9	20.2	14.1	23.0	17.0	26.6	20.5								15.4	10.4	
	K9							14.4	7.6	18.6	11.8	21.5	14.7	25.0	18.2	28.6	21.8						17.6	11.9	
	K10							12.8	5.3	17.1	9.5	19.9	12.4	23.5	15.9	27.0	19.5	34.1	34.1				19.8	13.3	
	K11											18.4	10.0	21.9	13.6	25.5	17.1	32.6	32.6	39.7	31.4	24.2	16.3		
WT075	K5	9.0	4.9	14.1	9.9	19.1	15.0									20.4	11.3	23.9	14.8	31.0	31.0	38.1	29.0	26.4	17.8
	K6			11.8	6.9	16.9	11.9	27.0	22.0														14.5	10.5	
	K7					14.7	8.9	24.7	18.9	30.8	25.0	34.8	29.0										17.4	12.7	
	K8							22.5	15.9	28.6	21.9	32.6	26.0	37.6	31.0								20.3	14.8	
	K9							20.3	12.8	26.3	18.9	30.4	22.9	35.4	27.9	40.4	33.0						23.2	16.9	
	K10							18.1	9.8	24.1	15.8	28.1	19.9	33.2	24.9	38.2	29.9	48.3	48.3				26.1	19.0	
	K11											25.9	16.8	31.0	21.8	36.0	26.9	46.1	46.1	56.1	47.0	29.0	21.1		
WT083	K5	14.2	6.6	21.9	14.3	29.6	22.0									28.7	18.8	33.8	23.8	43.8	43.8	53.9	44.0	34.7	25.3
	K6			18.6	9.5	26.3	17.2	41.7	32.6														23.0	15.8	
	K7					22.9	12.3	38.3	27.7	47.6	37.0	53.8	43.1										27.6	19.0	
	K8							35.0	22.9	44.3	32.1	50.4	38.3	58.1	46.0								32.2	22.1	
	K9							31.7	18.0	40.9	27.3	47.1	33.5	54.8	41.2	62.5	48.9						36.8	25.3	
	K10							28.3	13.2	37.6	22.4	43.8	28.6	51.5	36.3	59.2	44.0	74.6	74.6				41.4	28.5	
	K11											40.4	23.8	48.1	31.5	55.8	39.2	71.3	71.3	86.7	70.0	46.0	31.6		
WT092	K5	21.0	9.0	32.0	21.0	44.0	32.0									44.8	26.6	52.5	34.3	67.9	67.9	83.3	65.2	55.2	38.0
	K6			27.0	13.0	39.0	25.0	61.0	47.0														34.4	23.3	
	K7					34.0	18.0	56.0	40.0	70.0	54.0	79.0	63.0										41.2	28.0	
	K8							52.0	33.0	65.0	47.0	74.0	56.0	86.0	67.0								48.1	32.7	
	K9							47.0	26.0	60.0	39.0	69.0	48.0	81.0	60.0	92.0	71.0						55.0	37.3	
	K10							42.0	19.0	55.0	32.0	64.0	41.0	76.0	53.0	87.0	64.0	110.0	110.0				61.9	42.0	
	K11											60.0	34.0	71.0	45.0	82.0	57.0	105.0	105.0	128.0	102.0	68.7	46.7		
WT105	K5	31.0	13.0	48.0	29.0	64.0	46.0									66.0	38.0	77.0	50.0	100.0	100.0	123.0	95.0	82.5	56.0
	K6			41.0	19.0	57.0	35.0	90.0	68.0														50.3	32.8	
	K7					50.0	25.0	83.0	57.0	103.0	77.0	116.0	90.0										60.3	39.3	
	K8							76.0	47.0	96.0	67.0	109.0	80.0	126.0	96.0								70.4	45.9	
	K9							69.0	36.0	89.0	56.0	102.0	69.0	119.0	86.0	135.0	102.0						80.4	52.4	
	K10							63.0	26.0	82.0	45.0	95.0	59.0	112.0	75.0	128.0	92.0	161.0	161.0				90.5	59.0	
	K11											89.0	48.0	105.0	65.0	121.0	81.0	154.0	154.0	187.0	147.0	100.5	65.6		
WT125	K5	47.0	19.0	72.0	45.0	98.0	71.0									98.0	54.0	115.0	70.0	147.0	147.0	180.0	136.0	110.6	72.1
	K6			61.0	28.0	87.0	54.0	138.0	105.0														120.6	78.7	
	K7					76.0	37.0	127.0	89.0	158.0	119.0	178.0	140.0										79.0	53.0	
	K8							116.0	72.0	146.0	103.0	167.0	123.0	193.0	149.0								95.0	64.0	
	K9							104.0	55.0	135.0	86.0	156.0	107.0	181.0	132.0	207.0	158.0						111.0	74.0	
	K10							93.0	39.0	124.0	70.0	145.0	90.0	170.0	116.0	196.0	141.0	247.0	247.0				126.0	85.0	
	K11											133.0	73.0	159.0	99.0	185.0	125.0	236.0	236.0	287.0	227.0	142.0	96.0		
WT140	K5	85.0	40.0	129.0	84.0	173.0	127.0									148.0	82.0	174.0	108.0	225.0	225.0	276.0	211.0	158.0	106.0
	K6			111.0	56.0	155.0	100.0	242.0	188.0														174.0	117.0	
	K7					137.0	73.0	224.0	161.0	277.0	213.0	312.0	248.0									190.0	127.0		
	K8							206.0	134.0	259.0	186.0	294.0	221.0	338.0	265.0							206.0	137.0		
	K9							188.0	106.0	241.0	159.0	276.0	194.0	320.0	238.0	364.0	282.0					232.0	154.0		
	K10							170.0	79.0	223.0	132.0	258.0	167.0	302.0	211.0	346.0	255.0	433.0	433.0			258.0	172.0		
	K11											240.0	140.0	284.0	184.0	328.0	228.0	415.0	415.0	503.0	403.0	284.0	189.0		
Model	Spring Qty.	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	90°	0°		
Air pressure		2BAR		2.5BAR		3BAR		4BAR		4.5BAR		5BAR		5.5BAR		6BAR		7BAR		8BAR		Springs/output			

WT Series

Pneumatic Actuator



Output Torque of Single Acting Actuator

Output torque of air to springs																						Unit: Nm			
Air pressure		2 BAR		2.5 BAR		3 BAR		4 BAR		4.5 BAR		5 BAR		5.5 BAR		6 BAR		7 BAR		8 BAR		Springs'output			
Model	Spring Qty.	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	90° Start	0° End		
WT160	K5	120	48	187	115	254	182															208	140		
	K6			158	71	225	138	358	271													250	168		
	K7					195	94	329	228	409	308	462	361									292	196		
	K8							299	184	380	264	433	317	500	384							333	223		
	K9							270	140	350	220	404	273	470	340	537	407					375	251		
	K10							241	96	321	176	374	230	441	296	508	363	641	497			417	279		
	K11											345	186	412	253	478	319	612	453	746	587	458	307		
K12														382	209	449	276	583	409	716	543	500	335		
WT190	K5	220	105	328	213	436	321															309	200		
	K6			286	148	393	255	609	471													371	240		
	K7					351	190	567	406	696	535	782	621									433	280		
	K8							525	341	654	470	740	556	848	664							495	320		
	K9							482	275	612	405	698	491	805	598	913	706					557	360		
	K10							440	210	570	340	656	426	763	533	871	641	1086	856			619	400		
	K11											614	361	721	468	829	576	1044	791	1260	1007	681	440		
K12														679	403	787	511	1002	726	1218	942	742	480		
WT210	K5	223	108	355	239	486	371															398	288		
	K6			294	155	425	287	689	550													477	346		
	K7					365	203	628	466	786	624	891	729									557	403		
	K8							567	383	725	541	830	646	962	777							636	461		
	K9							507	299	665	457	770	562	901	694	1033	825					716	518		
	K10							446	215	604	373	709	478	841	610	972	741	1235	1005			795	576		
	K11											648	395	780	526	912	658	1175	921	1438	1184	875	634		
K12																					954	691			
WT240	K5	341	190	534	383	728	577									719	442	851	574	1114	837	1377	1100	554	410
	K6			448	267	641	460	1028	847														665	492	
	K7					555	343	942	730	1174	962	1328	1117									776	575		
	K8							855	613	1087	845	1242	1000	1435	1193								886	657	
	K9							769	497	1001	729	1155	883	1349	1077	1542	1270					997	739		
	K10							682	380	914	612	1069	767	1262	960	1456	1153	1842	1540			1108	821		
	K11											983	650	1176	843	1369	1037	1756	1423	2142	1810	1219	903		
K12														1089	727	1283	920	1669	1306	2056	1693	1330	985		
WT270	K5	585	347	879	640	1173	934																786	559	
	K6			761	475	1055	768	1642	1356														943	671	
	K7					937	603	1524	1190	1876	1542	2111	1777									1101	783		
	K8							1406	1024	1759	1377	1994	1612	2287	1905								1258	895	
	K9							1289	859	1641	1211	1876	1446	2169	1740	2463	2033					1415	1007		
	K10							1171	693	1523	1046	1758	1281	2052	1574	2345	1868	2932	2455			1572	1119		
	K11											1640	1115	1934	1409	2227	1702	2814	2289	3402	2877	1730	1231		
K12														1816	1243	2110	1537	2697	2124	3284	2711	1887	1343		
WT300	K5	696	339	1077	720	1459	1102																1128	789	
	K6			911	483	1293	865	2056	1628														1353	946	
	K7					1127	627	1890	1390	2348	1848	2653	2153									1579	1104		
	K8							1724	1153	2182	1611	2487	1916	2868	2297								1804	1262	
	K9							1558	915	2016	1373	2321	1678	2702	2060	3084	2441					2030	1419		
	K10							1392	678	1850	1136	2155	1441	2536	1822	2918	2204	3681	2967			2255	1577		
	K11											1989	1203	2370	1585	2752	1967	3515	2730	4278	3493	2481	1735		
K12														2204	1348	2586	1729	3349	2492	4112	3255	2707	1893		
WT350	K5	981	393	1553	964	2124	1536																1797	1238	
	K6			1292	586	1863	1157	3005	2300														2156	1486	
	K7					1602	779	2745	1921	3430	2607	3887	3064									2516	1734		
	K8							2484	1543	3169	2229	3626	2686	4198	3257							2875	1981		
	K9							2223	1165	2909	1850	3366	2307	3937	2878	4508	3450					3235	2229		
	K10							1963	787	2648	1472	3105	1929	3676	2500	4247	3071	5390	4214			3594	2477		
	K11											2844	1551	3416	2122	3987	2693	5129	3835	6272	4978	3953	2724		
K12													3155	1744	3726	2315	4868	3457	6011	4600	4313	2972			
WT400	K5	1798	970	2611	1783																		2172	1385	
	K6	1506	512	2320	1326	3134	2140	4762	3768														2606	1662	
	K7			2028	869	2842	1683	4470	3311	5447	4287												3040	1939	
	K8					2551	1226	4178	2854	5155	3830												3475	2216	
	K9							3887	2396	4863	3373	5514	4024										3909	2493	
	K10									4572	2916	5223	3567	6037	4381								4343	2770	
	K11									4280	2459	4931	3110	5745	3924	6559	4737					4778	3047		
	K12									3989	2001	4640	2652	5454	3466	6267	4280	7895	5908	9523	7536	5212	3324		
	K13											4348	2195	5162	3009	5976	3823	7604	5451	9231	7079	5646	3601		
	K14													4056	1738	4870	2552	5684	3366	7312	4994	8940	6621	6081	3878
	K15															4579	2095	5393	2909	7020	4536	8648	6164	6515	4155
	K16																	5101	2451	6729	4079	8357	5707	6949	4432
Model	Spring Qty.	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	90° Start	0° End		
Air pressure		2BAR		2.5BAR		3BAR		4BAR		4.5BAR		5BAR		5.5BAR		6BAR		7BAR		8BAR		Springs'output			
Output torque of air to springs																									

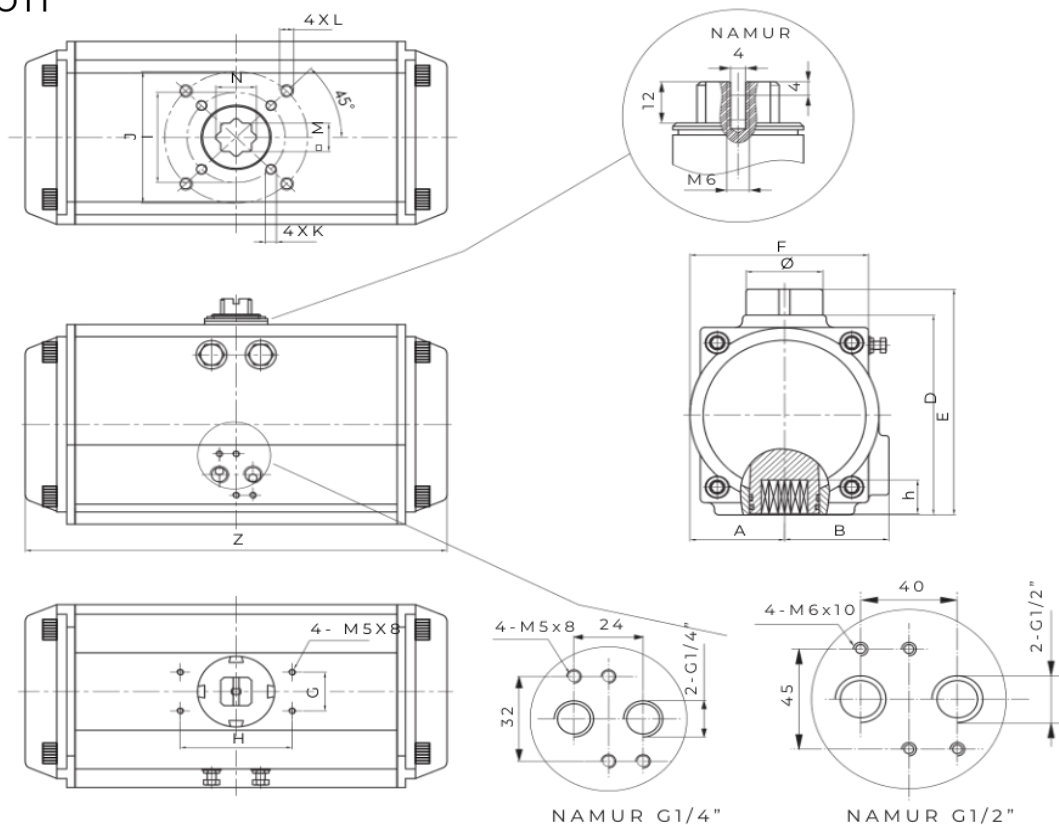


WT Series

Pneumatic Actuator



Dimension



Unit : mm

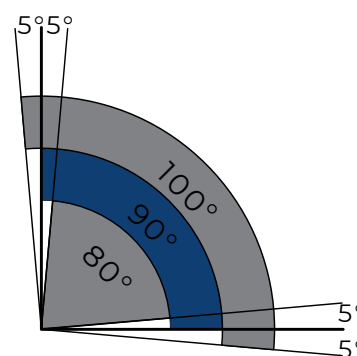
SIZE	A	B	D	E	F	G	H	I	J	K	L	M	N	h	Z	¢	Air Connection
WT052	30	41.5	72	92	65	30	80	¢ 36	¢ 50	M5x8	M6x10	11	¢ 15.5	14	149	¢ 40	NAMUR G1/4"
WT063	36	47.0	88	108	73	30	80	¢ 50	¢ 70	M6x10	M8x13	14	¢ 19.7	18	168	¢ 40	NAMUR G1/4"
WT075	42	53	99.5	119.5	81	30	80	¢ 50	¢ 70	M6x10	M8x13	14	¢ 19.7	18	184	¢ 40	NAMUR G1/4"
WT083	46	57	109	129	92	30	80	¢ 50	¢ 70	M6x10	M8x13	17	¢ 24	21	204	¢ 40	NAMUR G1/4"
WT092	50	58.5	116.5	136.5	98	30	80	¢ 50	¢ 70	M6x10	M8x13	17	¢ 24	21	262	¢ 40	NAMUR G1/4"
WT105	57.5	64.0	133	153	109.5	30	80	¢ 70	¢ 102	M8x13	M10x16	22	¢ 31	26	268	¢ 40	NAMUR G1/4"
WT125	67.5	74.5	155	175	127.5	30	80	¢ 70	¢ 102	M8x13	M10x16	22	¢ 29.5	26	301	¢ 55	NAMUR G1/4"
WT140	75	77.0	172	192	137.5	30	80	¢ 102	¢ 125	M10x16	M12x20	27	¢ 36.7	31	394	¢ 55	NAMUR G1/4"
WT160	87	87	197	217	158	30	80	¢ 102	¢ 125	M10x16	M12x20	27	¢ 36.7	31	458	¢ 55	NAMUR G1/4"
WT190	103	103	230	260	189	30	130	¢ 140	¢ 140	¢ 140	M16x25	36	¢ 49.5	40	528	¢ 80	NAMUR G1/4"
WT210	113	113	255	285	210	30	130	¢ 140	¢ 140	¢ 140	M16x25	36	¢ 49.5	40	532	¢ 80	NAMUR G1/4"
WT240	130	130	289	319	245	30	130	¢ 165	¢ 165	¢ 165	M20x25	46	¢ 63.6	50	602	¢ 80	NAMUR G1/4"
WT270	147	147	328	358	273	30	130	¢ 165	¢ 165	¢ 165	M20x25	46	¢ 63.6	50	722	¢ 80	NAMUR G1/2"
WT300	203	203	348	378	290	30	130	¢ 165	¢ 215	M20x25	M20x25	46	¢ 63.6	60	758	¢ 80	NAMUR G1/2"
WT350	230	230	408	438	336	30	130	¢ 165	¢ 254	M20x25	8-M16x24	55	¢ 63.6	60	888	¢ 80	NAMUR G1/2"
WT400	258	258	480	510	360	30	130	¢ 165	¢ 254	M20x25	8-M16x25	55	¢ 77.7	60	930	¢ 80	NAMUR G1/2"

WT Series

Pneumatic Actuator

Operating Conditions

1. Working medium: Dry or lubricated air or non-corrosive gases
Medium with impurity particles less than 30 um.
2. Minimum supply pressure is 2.5 bar
Maximum supply pressure is 8 bar
3. Medium ambient temperature
Standard: -20°C~+80°C
High temperature: -15°C~+150°C
Low temperature: -40°C~+80°C
Ultra-low temperature: -60°C
4. Stroke adjustment
Have an adjustment range of $\pm 5^\circ$ for the rotation at 0° and 90°
5. Application Indoor or outdoor



How to order

