

V-TORK®



PNEUMATIC ACTUATOR



- Higher performance and reliability
- Fully compliance with all the latest international standards
- Wide range options in technical specification and highly cost-effective
- Compact housing design, suitable for any application and working environment



ATEX 94/9/EC

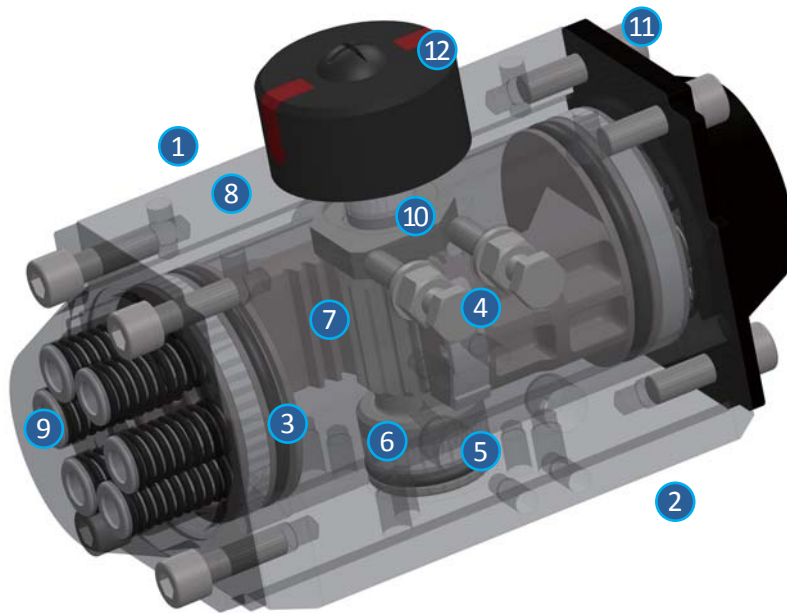
DESIGN

Vtork series pneumatic actuators have introduced improvement design for rack and pinion. It is always Vtork's mission to offer initiative products by combining the long field experiences in products application and the latest production and materials technology available in the market today. The benefit of new design has long been verified in practice. With new technical features equipped, Vtork series pneumatic actuators have advantageous characteristic in:

- Reliability
- High performance
- Fully compliance with all the latest international standards
- Extensive products range allows best versatility at lower price
- Innovations and patented solutions for a universal drive shaft
- Multifunction position indicator
- Compact and light

CONSTRUCTION

1. A single compact design utilizing identical body and end caps for both double acting and spring return models. This feature reduces inventory and allows field conversion, by adding or removing modular spring cartridges.
2. Full conformance to following latest specifications: ISO 5211, DIN 3337 and VDI/VDE 3845 for product interchangeability and easy mounting of solenoids, limit switches and other accessories.
3. Vtork piston rack and pinion design for compact construction, symmetric mounting position, high-cycle life and fast operation. Reverse rotation can be accomplished in the field by simply inverting the pistons.
4. Two independent external travel stop adjustments permit easy and precise adjustment of $\pm 5^\circ$ in both directions. This adjustment may be made in either the open or closed position and provides for accurate valve alignment.
5. Multiple bearings and guides on pistons and racks for precise operation, low friction, high cycle life and a blowout proof pinion shaft.
6. Electroless nickel-plated blowout resistant, bearing guided, one-piece pinion shaft for improved safety and maximum cycle life.
7. High precision teeth on piston racks and pinion shaft for accurate positioning, low backlash, and maximum engagement resulting in overall efficient operation.
8. Extruded aluminum body with both internal and external corrosion protections having a honed cylinder surface for longer life and a lower coefficient of friction.
9. Modular preloaded spring cartridges designed with coated springs for simple range versatility, greater safety and corrosion resistance.
10. Selected high quality bearings and seals that provide a wide operating temperature range, low friction, and high cycle life.
11. Internal and external stainless steel fasteners for long term corrosion resistance.
12. Multifunctional position indicator for visual position indication, and a direct, easy, economical way to mount popular sensors.



RANGE OF OPTIONS, QUALITY MANUFACTURING, AND ACCESSORIES

RANGE OF OPTIONS

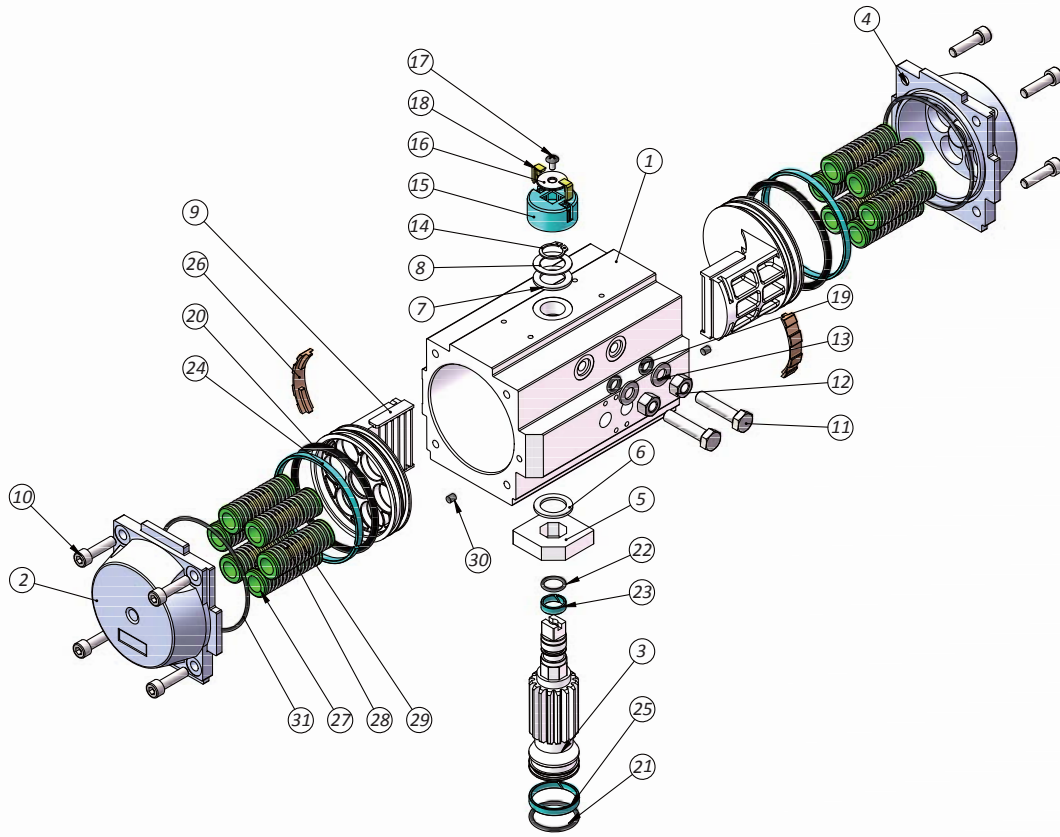
- A. Stainless steel 304 or 316 drive shafts are available on request for all sizes no matter the type of corrosion protection selected.
- B. For extremely high or low temperature applications, all models may be equipped with FPM or Silicon O rings along with an Vtork tested and certified suitable lubricant.
- C. Other than the standard double square bottom drive shaft connection, we can supply a keyed drive connection, a flat head connection or a special personalized drive connection.

QUALITY MANAGEMENT

- Production conforms to ISO9001.
- Each individual actuator has been factory inspected and tested and given a serial number for full traceability.
- Each individual actuator is individually packed in a special cardboard carton for protection, with a product description label for easy identification and includes installation, operation and maintenance instructions.

ACCESSORIES AVAILABLE

- Different Square reductions suitable for drive shaft
- Centering rings for all sizes
- Brackets
- Couplings
- Solenoid valves
- Switch boxes
- Proximity switches
- Gear boxes
- Positioners



Item Number	Part Description	Material Quality	QTY	Item Number	Part Description	Material Quality	QTY	Item Number	Part Description	Material Quality	QTY
1	Body	Aluminium alloy	1	12	Nut(stop screw)	Stainless steel	2	23	Bearing(pinion top)	POM+PTFE	1
2	Left End cap	Aluminium alloy	1	13	Washer (stop screw)	Stainless steel	2	24	Bearing(pinion head)	POM+PTFE	2
3	Drive shaft	Alloy Steel	1	14	Spring clip	Spring steel	1	25	Bearing(pinion bottom)	POM+PTFE	1
4	Right end cap	Aluminium alloy	1	15	Position indicator	Nylon	1	26	Wear band	Nylon	2
5	OCTI-CAM	Alloy Steel	1	16	Indicator thrust bearing	Stainless steel	1	27	Spring seat	Nylon	24
6	Thrust bearing (pinion top)	POM+PTFE	1	17	Cap screw	Stainless steel	1	28	Spring	High-carbon steel	12
7	Thrust bearing	POM+PTFE	1	18	Color code	Nylon	2	29	Straining beam	Copper pipe	12
8	Thrust washer	Stainless steel	1	19	*o* ring(stop screw)	NBR	2	30	Plug	NBR	2
9	Piston	Aluminium alloy	2	20	*o* ring(piston)	NBR	2	31	*o* ring(end cap)	NBR	2
10	Cap screw (end cap)	Stainless steel	8	21	*o* ring(pinion bottom)	NBR	1				
11	Stop top screw	Stainless steel	2	22	*o* ring(pinion top)	NBR	1				

TECHNICAL DATA(METRIC UNIT)

Model TypeA	VT032		VT050		VT065		VT075		VT085		VT095		VT110		VT125		VT140		VT160		VT190		VT210		VT240		VT270		VT300		VT350		VT400	
	D	S	D	S	D	S	D	S	D	S	D	S	D	S	D	S	D	S	D	S	D	S	D	S	D	S	D	S	D	S	D	S		
Diameter (mm)	32		50		65		75		85		95		110		125		140		160		190		210		240		270		300		350		400	
Air Volume Opening(L)	0.03		0.09		0.19		0.30		0.44		0.88		0.83		1.41		1.76		2.85		4.75		6.60		11.40		15.80		19.09		27.65		42.81	
Air Volume Closing(L)	0.04		0.15		0.32		0.50		0.66		1.17		1.27		2.13		2.72		4.08		7.20		10.29		15.10		18.80		28.23		44.10		62.05	
Opening Time (sec)	0.3	0.3	0.9	0.4	0.9	0.4	0.9	0.9	1.0	0.9	1.4	0.9	1.4	1.3	2.4	1.3	2.8	2.0	4.8	2.2	2.4	2.9	3.4	3.2	3.8	4.4	5.0	5.0	6.0	6.2	7.4	7.5	9.6	
Closing Time (sec)	0.4	0.4	0.7	0.4	0.8	0.4	0.9	0.9	1.2	1.0	1.4	1.0	1.6	1.4	2.4	1.4	3.0	2.4	4.9	2.6	3.0	3.8	4.1	3.7	4.0	4.9	5.5	6.0	6.8	7.2	8.4	8.5	10.6	
Weight (Kg)hal	0.47	0.59	1.13	1.25	1.97	2.21	2.93	3.29	3.78	4.26	5.14	5.86	6.09	7.17	10.86	12.54	13.77	15.93	20.15	23.75	28.41	33.81	40.03	48.43	52.6	77.76	73.64	90.6	108	135.6	146.7	188.1	220.5	283.5

1. For model 32-160

(1)Room temperature (2)Actuator stroke 90° (3)Solenoid valve with orifice of 4 mm and a flow capacity Qn400L/min (4)Inside pipe diameter 6 mm (5)Medium clean air (6)Air supply pressure 5.5 bar (7)Actuator without external resistance load

2. For model 190-400

(1)Room temperature (2)Actuator stroke 90° (3)Solenoid valve with orifice of 12 mm and a flow capacity Qn5100L/min (4)Inside pipe diameter 8 mm (5)Medium clean air (6)Air supply pressure 5.5 bar (7)Actuator without external resistance load

Cautions: obviously on the field applications when one or more of the above parameter are different, the moving time will be different

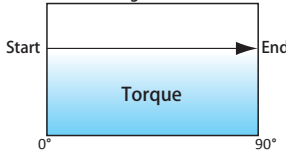
Air consumption rest with air supply, air volume and action cycle times. Expressions:

$$L/min = \text{Air volume}(\text{opening air volume} + \text{closing air volume}) \times \left[\frac{\text{Air Supply}(\text{Kpa}) + 101.3}{101.3} \right] \times \text{Action times}(\text{min})$$

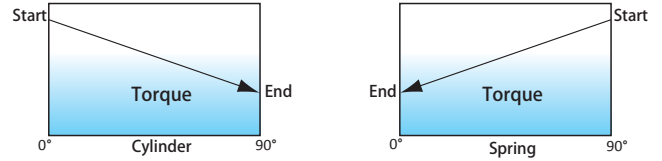
IMPERIAL TORQUE RATINGS



Torque diagram double acting actuators



Torque diagram single acting actuators



DOUBLE ACTING TORQUE RATINGS IBF-IN

Model	Supply Pressure (Unit:Psig)									
	35	40	50	55	60	70	80	90	100	110
VT032	26	30	35	41	47	52	58	63	73	84
VT050	76	92	109	126	142	158	175	191	225	258
VT065	154	188	221	254	288	321	355	389	455	522
VT075	239	291	343	396	447	499	551	604	707	812
VT085	351	428	504	581	657	733	809	886	1038	1191
VT095	493	601	708	815	922	1030	1137	1244	1459	1674
VT110	637	790	929	1067	1206	1345	1483	1622	1899	2176
VT125	1139	1412	1660	1907	2154	2402	2650	2898	3393	3888
VT140	1735	2098	2461	2823	3186	3549	3912	4275	5001	5727
VT160	2332	2891	3398	3905	4412	4919	5427	5934	6948	7963
VT190	3793	4585	5375	6166	6956	7747	8538	9328	10909	12490
VT210	5295	6401	7505	8608	9712	10816	11919	13022	15230	17437
VT240	8216	9931	11639	13347	15064	16773	18490	20198	23623	27049
VT270	11551	13958	16365	18773	21180	23588	25995	28403	33218	38033
VT300	14857	17962	21059	24156	27253	30350	33447	36544	42737	48931
VT350	22061	26657	31254	35850	40446	45042	49638	54235	63426	72619
VT400	33617	40621	47625	54628	61632	68635	75639	82643	96650	110657

SINGLE ACTING TORQUE RATINGS IBF-IN

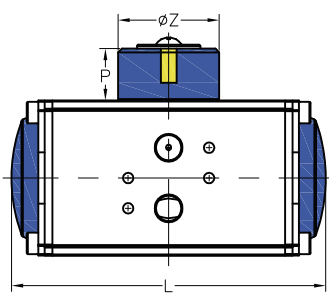
Model	Supply Pressure (Unit:Psig)																		Spring stroke			
	35		40		50		55		60		70		80		90		100				110	
	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	90°	0°
VT050 S05	45	30	61	47	78	64	95	80	111	96	127	113	144	129	160	146	194	179	227	212	46	31
VT050 S06	39	21	55	38	72	54	89	71	104	88	121	104	138	120	154	137	188	170	220	203	55	37
VT050 S07			49	28	65	45	82	62	98	78	115	95	132	112	148	127	181	161	214	194	63	43
VT050 S08					59	36	76	52	92	69	109	86	126	102	142	119	175	151	208	185	73	50
VT050 S09							70	43	86	60	103	76	119	93	135	110	169	143	202	175	82	56
VT050 S10									80	50	96	67	113	84	129	100	163	134	196	166	91	62
VT050 S11											90	58	107	74	123	91	157	124	189	158	100	68
VT050 S12													101	65	117	82	150	115	183	148	110	74
VT065 S05	77	38	111	72	144	105	177	138	211	172	244	205	278	239	312	273	378	339	445	406	116	77
VT065 S06	62	15	95	49	128	81	162	115	196	149	229	182	263	216	296	250	363	316	430	383	139	92
VT065 S07			80	25	113	58	147	92	181	126	213	159	247	193	281	226	348	293	414	360	162	108
VT065 S08					97	35	131	69	165	103	198	136	232	169	266	203	332	270	399	337	186	123
VT065 S09							116	46	150	80	183	112	216	146	250	180	317	247	384	313	209	139
VT065 S10									134	56	167	89	201	123	235	157	301	223	368	290	232	154
VT065 S11											152	66	186	100	219	134	286	200	353	267	255	169
VT065 S12													170	77	204	110	271	177	337	244	278	185
VT075 S05	144	90	196	142	249	194	301	246	352	298	404	350	457	402	509	454	612	558	717	662	150	95
VT075 S06	126	60	178	112	229	165	281	216	334	268	386	320	437	373	489	424	594	528	697	632	179	113
VT075 S07			158	82	211	135	263	187	315	238	366	290	419	343	471	395	574	498	679	603	289	133
VT075 S08					192	104	243	157	296	209	348	260	400	312	451	365	556	469	659	573	239	151
VT075 S09							225	127	277	179	328	231	381	283	433	335	537	439	641	543	268	171
VT075 S10									258	149	310	201	362	253	414	305	518	409	622	513	298	189
VT075 S11											291	171	343	223	395	275	499	379	603	483	328	208
VT075 S12													324	193	376	245	480	350	584	453	358	227
VT085 S05	205	121	281	197	358	273	434	350	510	426	587	503	663	571	739	655	892	808	1044	960	231	147
VT085 S06	175	74	251	150	328	227	404	304	481	380	557	456	634	533	710	609	862	761	1015	914	277	176
VT085 S07			222	104	299	181	375	258	451	334	528	410	605	487	681	563	833	715	986	868	323	205
VT085 S08					269	135	346	212	422	288	498	364	574	440	651	517	804	669	957	822	369	235
VT085 S09							317	166	393	242	469	318	545	394	622	471	774	623	928	776	415	264
VT085 S10									364	196	440	272	516	348	593	425	745	577	898	730	461	293
VT085 S11											411	226	487	302	563	378	716	531	868	683	507	322
VT085 S12													458	256	534	332	687	485	839	63	553	351
VT095 S05	297	185	405	292	512	399	620	507	727	614	835	721	942	828	1049	936	1236	1151	1478	1365	309	196
VT095 S06	258	123	366	231	474	338	581	445	688	552	796	659	903	767	1010	874	1224	1089	1439	1304	370	235
VT095 S07			327	169	435	276	542	383	649	490	756	598	863	705	971	813	1185	1028	1399	1242	432	273
VT095 S08					395	214	503	322	610	429	717	536	824	643	931	751	1146	966	1360	1180	494	313
VT095 S09							463	260	571	367	678	474	785	582	892	689	1107	904	1321	1119	555	352
VT095 S10									531	305	639	413	746	520	853	628	1067	842	1283	1057	617	391
VT095 S11											599	351	707	458	814	566	1028	781	1244	995	679	430
VT095 S12													667	397	775	505	990	790	1204	933	740	469
VT110 S05	384	232	537	384	676	523	814	662	953	800	1092	939	1230	1078	1369	1216	1646	1494	1923	1771	406	253
VT110 S06	334	150	487	304	625	442	764	580	903	720	1041	858	1180	997	1319	1136	1596	1413	1873	1690	487	304
VT110 S07			436	222	574	361	713	499	851	638	990	777	1129	915	1267	1054	1545	1331	1822	1609	568	354
VT110 S08					524	280	663	419	801	557	940	696	1079	835	1217	973	1495	1251	1772	1528	650	405
VT110 S09							612	337	751	476	890	614	1028	753	1167	892	1444	1169	1722	1446	730	456
VT110 S10									700	395	839	534	977	672	1116	811	1393	1088	1670	1365	812	506
VT110 S11											788	452	927	590	1066	729	1343	1006	1620	1284	893	557
VT110 S12													876	510	1014	648	1292	926	1569	1203	974	607

IMPERIAL TORQUE RATINGS

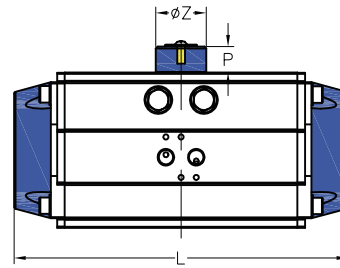
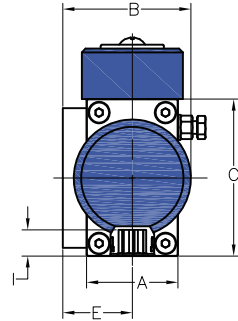


SINGLE ACTING TORQUE RATINGS IBF-IN

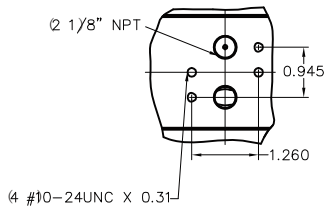
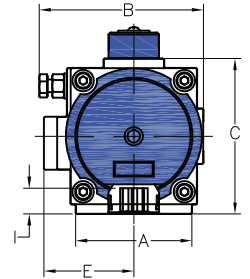
Model	Supply Pressure (Unit:Psig)																			Spring stroke		
	35		40		55		60		70		80		90		100		110					
	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°		
VT125 S05	688	427	960	698	1208	946	1455	1194	1703	1442	1951	1690	2199	1937	2446	2184	2941	2680	3437	3175	713	451
VT125 S06	597	283	870	556	1118	804	1365	1051	1613	1299	1860	1546	2108	1794	2356	2042	2851	2538	3347	3032	856	542
VT125 S07			780	413	1028	661	1275	909	1522	1157	1770	1404	2018	1652	2266	1899	2761	2395	3256	2890	998	632
VT125 S08					937	519	1184	766	1432	1013	1680	1261	1928	1509	2176	1757	2670	2252	3166	2747	1141	722
VT125 S09							1094	642	1342	871	1590	1119	1837	1367	2085	1614	2580	2109	3076	2605	1283	813
VT125 S10									1252	728	1499	976	1747	1224	1995	1472	2490	1967	2985	2462	1426	903
VT125 S11											1409	834	1657	1082	1905	1329	2400	1824	2895	2320	1568	993
VT125 S12													1567	939	1814	1186	2309	1682	2805	3062	1711	1083
VT140 S05	1011	656	1373	1018	1736	1381	2098	1743	2460	2105	2822	2467	3090	2613							1083	728
VT140 S06	865	439	1228	802	1590	1164	1952	1526	2315	1888	2677	2251	2825	2251	3090	2613					1299	874
VT140 S07			1082	585	1444	947	1806	1309	2168	1672	2531	2034	2893	2396	3255	2758					1516	1020
VT140 S08					1298	730	1660	1093	2023	1455	2385	1817	2747	2179	3109	2542	3834	3266			1733	1165
VT140 S09							1515	876	1877	1238	2239	1601	2602	1963	2964	2325	3688	3050	4413	3774	1949	1311
VT140 S10									1732	1022	2094	1384	2456	1746	2818	2108	3543	2833	4267	3557	2166	1456
VT140 S11											1948	1167	2311	1529	2673	1892	3397	2616	4122	3341	2383	1602
VT140 S12													2165	1313	2527	1675	3252	2400	3976	3124	2599	1747
VT160 S05	1359	897	1917	1455	2424	1962	2931	2469	3439	2977	3946	3484	4453	3991	4960	4498	5974	5512	6990	6527	1437	974
VT160 S06	1164	609	1722	1167	2230	1675	2737	2182	3244	2689	3751	3196	4258	3703	4765	4210	5780	5225	6795	6240	1723	1168
VT160 S07			1528	881	2035	1388	2542	1895	3049	2402	3556	2909	4063	3416	4571	3924	5426	4938	6600	5952	2011	1363
VT160 S08					1840	1100	2347	1607	2854	2115	3362	2622	3869	3129	4376	3636	5390	4650	6405	5666	2298	1558
VT160 S09							2153	1321	2660	1828	3167	2335	3674	2842	4181	3349	5196	4364	6211	5378	2585	1752
VT160 S10									2465	1540	2972	2047	3479	2554	3986	3062	5001	4076	6016	5091	2872	1947
VT160 S11											2777	1760	3285	2268	3792	2775	4806	3789	5821	4803	3160	2142
VT160 S12													3090	1980	3597	2487	4611	3501	5627	4517	3447	2337
VT190 S05	2184	1482	2977	2274	3767	3064	4557	3855	5348	4645	6138	5435	6607	5764							2312	1609
VT190 S06	1862	1019	2654	1811	3445	2601	4235	3393	5026	4183	5817	4973	6607	5764							2774	1930
VT190 S07			2094	1349	3124	2139	3914	2930	4704	3720	5495	4510	6285	5302	7075	6092					3236	2253
VT190 S08					2801	1757	3592	2467	4382	3258	5173	4048	5964	4839	6899	5629	8335	7221			3698	2574
VT190 S09							3270	2002	4061	2796	4851	3586	5642	4377	6595	5167	8013	6748	9594	8330	4161	2896
VT190 S10									3739	2333	4530	3124	5320	3915	6292	4705	7692	6286	9272	7867	4623	3217
VT190 S11											4208	2661	4998	3452	5989	4242	7369	5824	8951	7405	5085	3540
VT190 S12													4677	2990	5685	3780	7048	5361	8629	6943	5566	3866
VT210 S05	3123	2116	4229	3223	5333	4326	6436	5430	7540	6543	8644	7638	9747	8740	10850	9844	13058	12050	15265	14259	3178	2172
VT210 S06	2688	1481	3794	2587	4898	3691	6002	4795	7106	5898	8209	7001	9313	8105	10417	9209	12623	11416	14831	13623	3814	2607
VT210 S07			3360	1952	4464	3055	5567	4158	6671	5263	7775	6366	8878	7469	9982	8573	12190	10781	14396	12988	4449	3041
VT210 S08					4030	2419	5133	3523	6236	4626	7340	5730	8444	6834	9548	7938	11755	10145	13962	12352	5086	3475
VT210 S09							4699	2887	5803	3991	6906	5095	8328	6198	9113	7302	11320	9509	13528	11716	5721	3909
VT210 S10									5368	3355	6472	4459	7575	5562	8678	6666	10886	8873	13093	11081	6357	4344
VT210 S11											6037	3823	7141	4926	8245	6030	10451	8238	12659	10445	6992	4779
VT210 S12													6706	4291	7810	5395	10018	7602	12224	9810	7628	5213
VT240 S05	4583	3313	6295	5025	8007	6736	9718	8447	11430	10160	13142	11872									4903	3633
VT240 S06	3856	2332	5568	4044	7280	5756	8992	7468	10704	9179	12415	10891	14127	12603							5884	4360
VT240 S07			4841	3063	6553	4775	8265	6487	9977	8199	11689	9910	13400	11622	15112	13334					6865	5087
VT240 S08					5827	3794	7538	5506	9250	7218	10962	8930	12674	10642	14386	12353	17809	15777			7846	5813
VT240 S09							6812	4526	8524	6237	10235	7949	11947	9661	13659	11373	17082	14796	20506	18220	8826	6540
VT240 S10									7797	5257	9509	6968	11220	8680	12932	10392	16356	13816	19779	17239	9807	7267
VT240 S11											8782	5988	10494	7699	12206	9411	15629	12835	19053	16258	10779	7993
VT240 S12													9767	6719	11479	8431	14902	11854	18326	15278	11768	8720
VT270 S05	6602	4597	9009	7005	11417	9412	13823	11819	16231	14226	18638	16633									6957	4952
VT270 S06	5612	3206	8019	5613	10426	8021	12833	10427	15241	12437	17647	15241	19975	17649							8348	5943
VT270 S07			7029	4222	10321	6629	11743	9036	14250	11443	16657	13850	19064	16258	21472	18665					9740	6933
VT270 S08					8446	5238	10852	7645	13260	10052	15666	12459	18074	14866	20481	17274	25295	22088			11131	7923
VT270 S09							9862	6253	12269	8661	11067	7083	13475	10191	15882	24305	20696	29119	25510	12522	8914	
VT270 S10									11279	7269	13685	9676	16093	12083	18500	14491	23314	19305	28128	24119	13914	9904
VT270 S11											12695	8285	15102	10692	17510	13099	22324	17914	27138	22728	15305	10895
VT270 S12													14112	9301	16520	11708	26148	16522	26418	21336	16697	11885
VT300 S05	8740	5724	11845	8829	14942	11926	18039	15023	21136	18120	24233	21217	27330	24314	30427	27411	36620	33604	42814	39798	9133	6117
VT300 S06	7517	3897	10622	7002	13719	10099	16816	13196	19913	16293	23009	19390	26106	22487	29203	25584	35397	31778	41591	37972	10960	7340
VT300 S07			9399	5175	12495	8272	15592	11369	18689	14466	23379	17563	24885	20660	27980	23757	34174	29951	40368	36145	12787	8563
							14369	9542	17466	12639	20563	15736	23660	18833	26757	21930	32951	28124	39144	34318	14613	9787
VT300 S09							13146	7716	16242	10813	19339	13909	22410	17006	25533	20103	31727	26297	37921	32491	16440	11011
VT300 S10									15019	8986	18116	12083	21213	15180	24310	18277	30503	24470	36697	30664	18267	12234
VT300 S11											16892	10257	19989	13354	23086	16450	29280	22644	35474	28838	20094	13457
VT300 S12													18766	11527	21863	14624	28057	20818	32658			



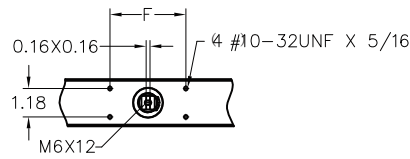
VT032



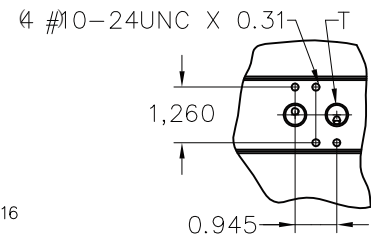
VT050-VT160



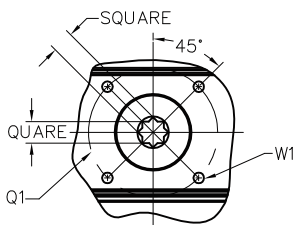
VT032
SIDE VIEW



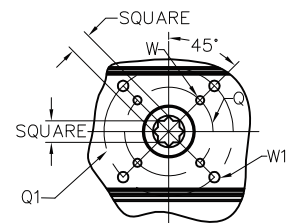
VT032-VT160
TOP VIEW



VT050-VT160
SIDE VIEW

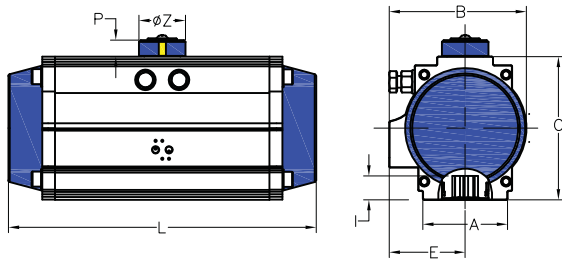


VT032
BOTTOM VIEW

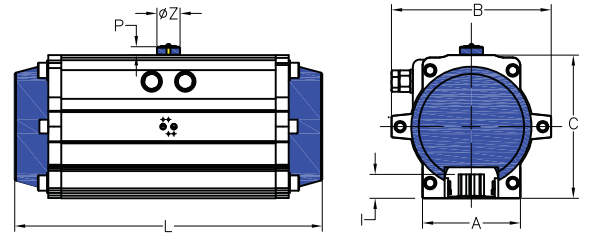


VT050-VT160
BOTTOM VIEW

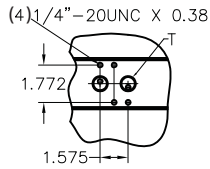
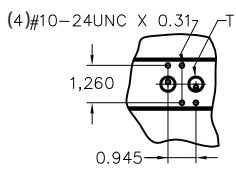
Model	A	B	C	E	F	P	ØZ	L	I	Flange	Q	Q1	W	W1	Square	T
	in	in	in	in	in	in	in	in	in	ISO 5211	in	in	UNC	UNC	in	in
VT032	1.46	1.85	1.97	1.06	1.97	0.79	1.57	4.33	0.39	F03	-	1.42	-	#10-24UNC x 0.35	0.4 x 0.4	1/8" NPT
VT050	1.77	2.78	2.76	1.63	3.15	0.79	1.57	6.06	0.47	F03/05	1.42	1.97	#10-24UNC x 0.29	1/4"-20UNC x 0.35	0.4 x 0.4	1/4" NPT
VT065	2.44	3.52	3.50	2.03	3.15	0.79	1.57	7.44	0.63	F05/07	1.97	2.76	1/4"-20UNC x 0.35	5/16"-18UNC x 0.47	0.6 x 0.6	1/4" NPT
VT075	2.68	4.04	3.94	2.32	3.15	0.79	1.57	8.27	0.63	F05/07	1.97	2.76	1/4"-20UNC x 0.35	5/16"-18UNC x 0.47	0.6 x 0.6	1/4" NPT
VT085	2.68	4.43	4.45	2.50	3.15	0.79	1.57	9.02	0.75	F05/07	1.97	2.76	1/4"-20UNC x 0.35	5/16"-18UNC x 0.47	0.7 x 0.7	1/4" NPT
VT095	3.62	4.96	4.84	2.80	3.15	0.79	1.57	10.39	0.75	F05/07	1.97	2.76	1/4"-20UNC x 0.35	5/16"-18UNC x 0.47	0.7 x 0.7	1/4" NPT
VT110	3.66	5.45	5.35	3.01	3.15	0.79	1.57	10.47	0.75	F07/10	2.76	4.02	5/16"-18UNC x 0.47	3/8"-16UNC x 0.59	0.7 x 0.7	1/4" NPT
VT125	3.78	6.18	6.34	3.35	3.15	1.18	2.20	13.27	0.98	F07/10	2.76	4.02	5/16"-18UNC x 0.47	3/8"-16UNC x 0.59	0.9 x 0.9	1/4" NPT
VT140	4.33	7.01	7.01	3.82	3.15	1.18	2.20	14.84	1.22	F10/12	4.02	4.92	3/8"-16UNC x 0.59	1/2"-13UNC x 0.71	1.1 x 1.1	1/4" NPT
VT160	4.41	7.72	7.87	4.17	5.12	1.18	2.20	16.22	1.22	F10/12	4.02	4.92	3/8"-16UNC x 0.59	1/2"-13UNC x 0.71	1.1 x 1.1	1/4" NPT



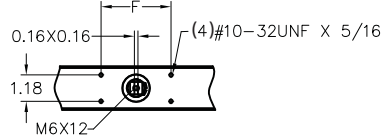
VT190-VT350



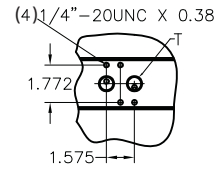
VT400



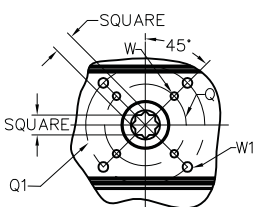
VT190-VT210 VT240-VT350
SIDE VIEW



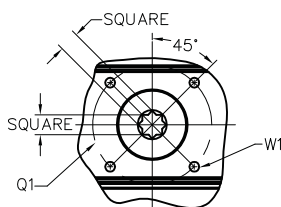
VT190-VT400
TOP VIEW



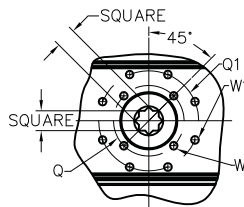
VT400
SIDE VIEW



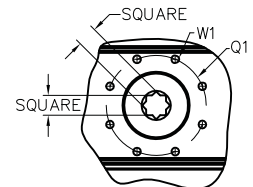
VT190



VT210-VT300
BOTTOM VIEW



VT350



VT400
BOTTOM VIEW

Model	A in	B in	C in	E in	F in	P in	ØZ in	L in	I in	Flange ISO 5211	Q in	Q1 in	W UNC	W1 UNC	Square in	T in
VT190	5.35	8.52	9.13	4.41	5.12	1.18	2.20	19.21	1.61	F10/14	4.02	5.51	4-3/8"-16UNC x 0.59	4-5/8"-11UNC x 0.94	1.4 x 1.4	1/4" NPT
VT210	5.51	9.27	10.04	4.72	5.12	1.18	3.15	21.65	1.57	F14	-	5.51	-	4-5/8"-11UNC x 0.94	1.4x1.4	1/4" NPT
VT240	6.26	10.31	11.50	5.16	5.12	1.18	3.15	23.70	1.97	F16	-	6.50	-	4-3/4"-10UNC x 1.10	1.8x1.8	1/2" NPT
VT270	6.26	11.61	13.03	5.81	5.12	1.18	3.15	26.46	1.97	F16	-	6.50	-	4-3/4"-10UNC x 1.10	1.8 x 1.8	1/2" NPT
VT300	7.09	13.19	13.94	6.81	5.12	1.18	3.15	30.87	1.97	F16	-	6.50	-	4-3/4"-10UNC x 1.10	1.8x1.8	1/2" NPT
VT350	10.63	15.16	16.14	7.68	5.12	1.18	3.15	33.27	1.97	F16/25	6.50	10.00	4-3/4"-10UNC x 1.10	8-5/8"-11UNC x 1.19	1.8x1.8	1/2" NPT
VT400	11.42	20.47	18.35	10.24	5.12	1.18	3.15	37.64	2.36	F25	-	10.00	-	8-5/8"-11UNC x 1.19	2.2x2.2	1/2" NPT



MODEL	TYPE	SPRING QTY	FLANGE	SQURE	OPTION	SEALING PART
VT032	D=DOUBLE ACTING S=SPRING RETURN	ONLY FOR SPRING REST 4 5 6 7 8 9 10 11 12	F03	9×9	CAP COLOR RAL ■ 7046 ■ 9004 ■ 5021 ■ 3020 ■ 6002 ■ 5015 TYPE OF BODY P Smooth Surface + hard Anodized S Sandblasted Surface + hard Anodized (Color: Grey) H Sandblasted Surface + hard Anodized (Color: Dark Grey) F Sandblasted Surface + hard Anodized + PTFE Coated	STANDARD NITRILE RUBBER -15°C-+80°C HT FLUORORUBBER (FOR HIGH TEMPERATURE) -15°C-+150°C LT SILASTIC (FOR LOW TEMPERATURE) -40°C-+80°C
VT050			F03/05	11×11		
VT065			F05/07	14×14		
VT075			F05/07	14×14		
VT085			F05/07	17×17		
VT095			F05/07	17×17		
VT110			F07/10	17×17		
VT125			F07/10	22×22		
VT140			F10/12	27×27		
VT160			F10/12	27×27		
VT190			F10/14	36×36		
VT210			F14	36×36		
VT240			F16	46×46		
VT270			F16	46×46		
VT300			F16	46×46		
VT350			F16/25	46×46		
VT400			F25	55×55		

Note:

- 1.The standard rotation of double acting and spring return is clockwise to close(for double acting when port 4 is pressurised).
- 2.The standard temperature of sealing part is -15°C to 80°C,if high temperature or low temperature required,relevant sealing parts can be used.
- 3.All technical parameters of products please refer to this catalog.Customization for special requirement is available. Please contact the sales.
- 4.Customization including but not limited to the items below:
 - 1)Color combination.
 - 2)Flange and Square custom made.
 - 3)Higher protection level.

Model Selection Example :

- Example1:VT095D F07/10 17 P7046
 Description:Actuator model VT095,double acting ,ISO flange F07&F10,17 mm bottom square with standard indicator,P body, cap color grey(RAL7046),nitrile rubber sealing.
- Example2:VT190S12 F10/14 36 S5021HT
 Description:Actuator model VT190,single acting spring return,with 12 springs ,ISO flange F10&F14,36 mm bottom square ,S body,cap color green(RAL5021), fluororubber sealing.



VTORK Technology (Wuxi) Co., LTD

No.20 Hongxiang Road, Hudai Industrial Park ,Binhu District, Wuxi , Jiangsu Province , China
 Tel: 0510-85581533 Fax: 0510-85581532 E-mail: vtork@vtork.cn Website: www.vtork.cn