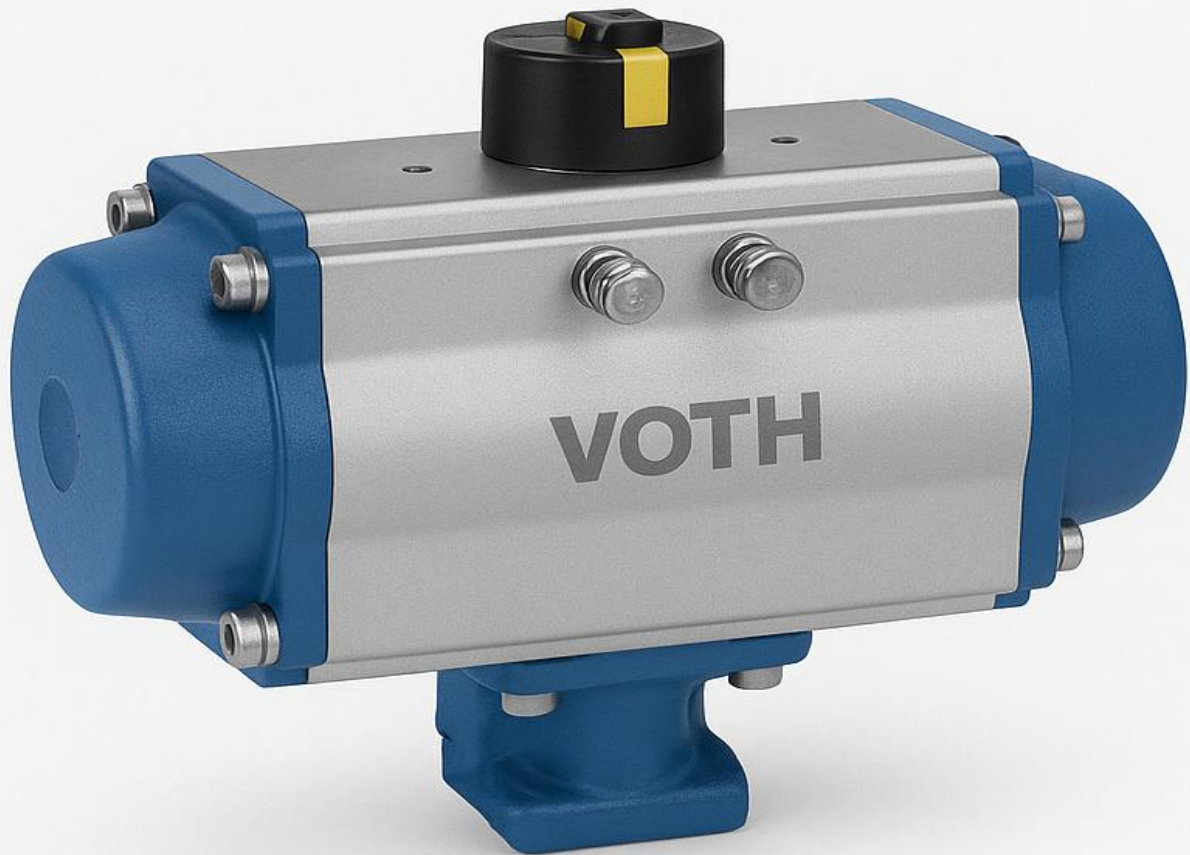




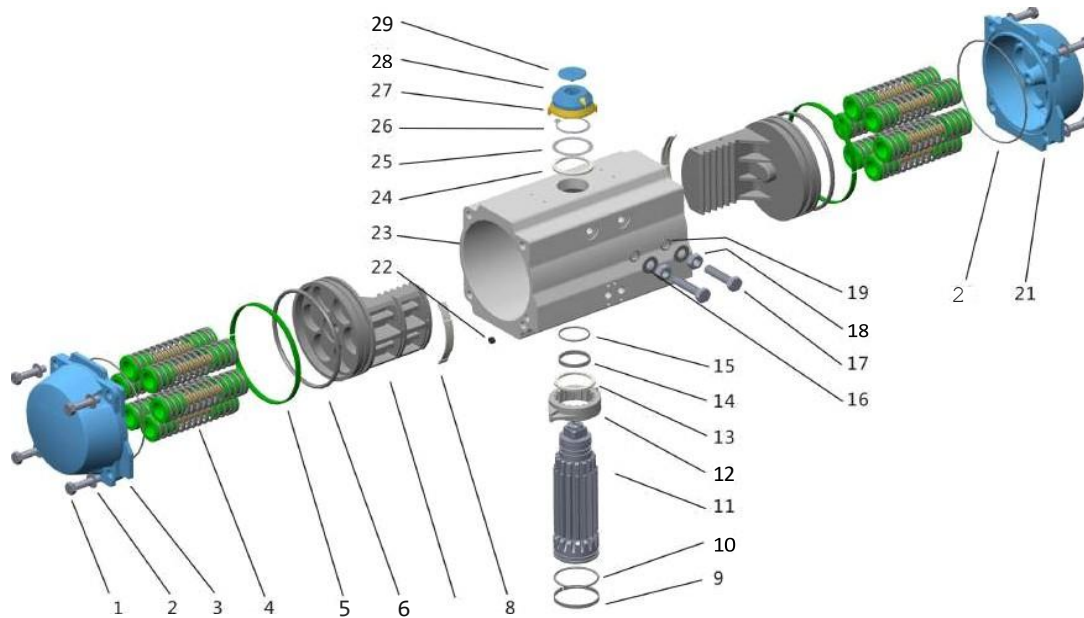
PNEUMATIC ACTUATOR

VT SERIES



PNEUMATIC Valves Control Performance Features

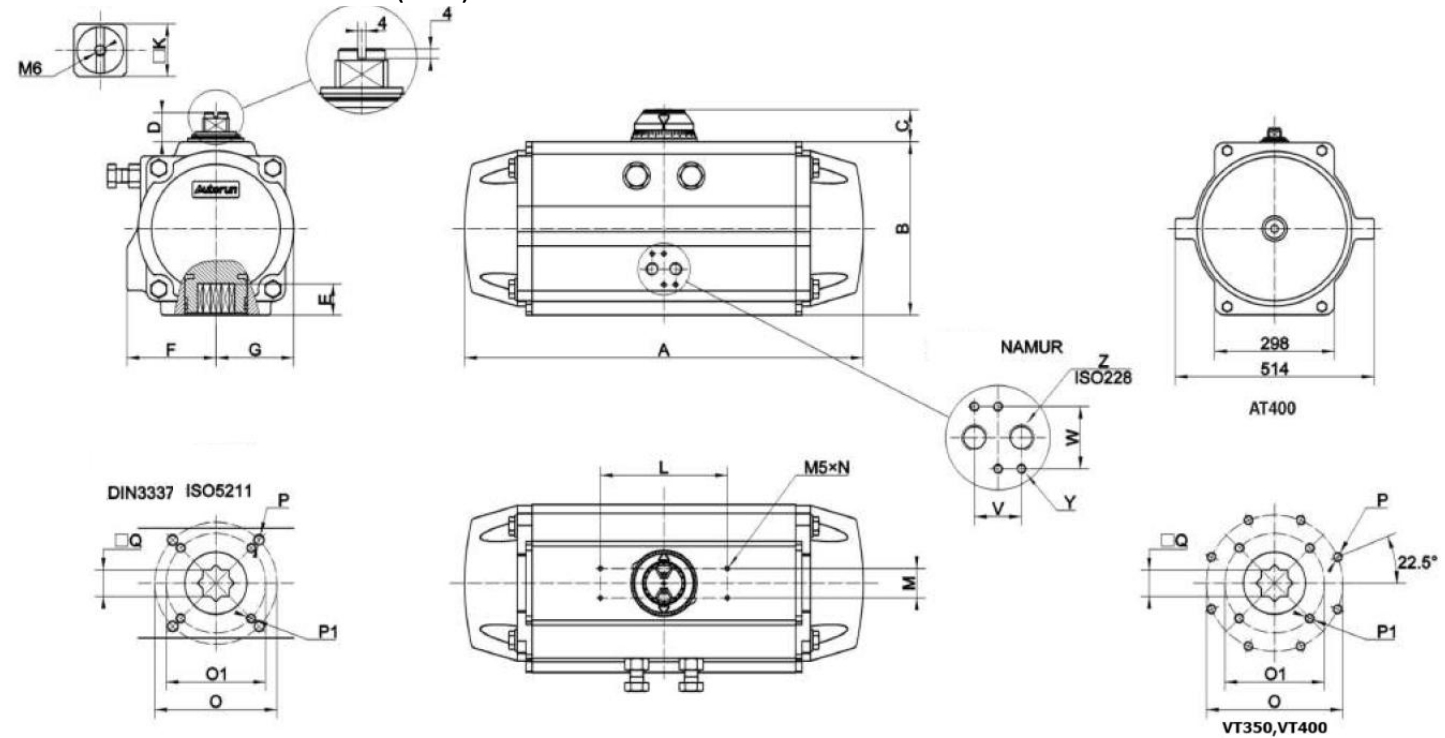
1. **Indicator:** The indicator conforms to the VID/VIE3845 NAMUR standard, which is convenient for installing limit switch. Positioner and other accessories.
2. **Output Shaft:** The design of the one-body forging and pressing output shaft of nickel-plated alloy steel is in accordance with NAMUR, ISO5211 and DIN3337 standard. Special standards can be custom according to the customer.
3. **Cylinder block:** It is made of high quality aluminum alloy extrusion; the surface is coated with hard anodic oxidation and Teflon coating.
4. **End cover:** Aluminum alloy die-casting, surface with anodic hardening treatment and metal polyester coating.
5. **Piston:** Cast aluminum with hard oxidation.
6. **Adjustment Bolt:** Two independent adjustment bolts realizes accurate adjustment within $\pm 1^\circ$ of the angle of the valve opening and closing.
7. **Spring:** Use of high quality spring steel, prepress assembly. Can easily remove or change the number of springs to meet different torque output ranges
8. **Piston Ring:** Use of low friction and long life composite material, convenient repair and replace.
9. **Seal:** Use of nitrile rubber under normal temperature, special seal is available according to the customer requirement for high temperature and low temperature.
10. **Air Connection:** It complies with NAMUR standard and can be directly mount with NAMUR standard solenoid valve.
11. **Fasteners:** All fasteners are made of stainless steel.



Components & Material

No	Name	Quantity	Standard material	Customization possible
1	Bolt	8	Stain less Steel	
2	Bolt Washer	8	Stainless Steel	
3	Left Cover	1	Aluminum Die Casting	Stain less Steel
4	Spring Components	5-12	Alloy Spring Steel	
5	Piston Ring	2	POM	
6	O-Ring (piston)	2	NBR	
7	Piston	2	Aluminum Die Casting	
8	Guide Ring	2	Pa66	
9	Bearing (output shaft bottom)	1	POM	
10	O-Ring (output shaft bottom)	1	N BR	FPM/Q
11	Output Shaft	1	Carbon Steel	Stainless Steel
12	Cam	1	Stainless Steel	
13	Gasket	1	POM	
14	Bearing (at the top of the shaft)	1	POM	
15	O-Ring (at the t p of the shaft)	1	N BR	FPM/Q
16	Nut	2	Stainless Steel	
17	Adjustment Bolt	2	Stainless Steel	
18	Gasket	2	Stainless Steel	FPM/Q
19	O-Ring (adjusting bolt)	2	NBR	FPM/Q
20	O-Ring (cover)	2	NBR	Stainless Steel
21	Right Cove r	1	Aluminum Die Casting	FPM/Q
22	Plug	1	NBR	Stainless Steel
23	Block	1	Aluminum Extrusion	
24	Gasket	1	POM	
25	Gasket	1	Stainless Steel	
26	Shaft Ring	1	Stainless Steel	
27	Indicator Supporting Structure	1	ABS	
28	Main Body of the Indicator	1	ABS	
29	Bolt	1	A BS	

Dimensions & connections (mm)



Model	VAT042	VAT050	VAT063	VAT075	VAT100	VAT125	VAT145	VAT160	VAT210	VAT240	VAT270	VAT300	VAT350	VAT400
ISO flange	F03/F05	F03/F05	F03/F05	F05/F07	F07/F10	F07/F10	F10/F12	F10/F12	F12/14	F16	F16	F16	F16/F25	F16/F25
A	122	143	162	212	270	345	408	440	592	670	723	870	935	1035
B	55	68	84	100	126	157	178	196	255	292	332	355	410	466
C	23	23	23	23	23	33	33	33	33	33	33	33	33	33
D	18	18	19	20	20	30	30	30	30	25	25	25	25	25
E	12	12	16	16	19	24	29	29	38	48	48	48	48	48
F	33	40.5	46	52	67	80	91	100	121	130	147	173	195	260
G	24	29	36	41.5	56	71	80	88	116	130	147	161	190	260
K	10	11	11	17	17	27	27	27	27	36	36	36	36	36
L	50	80	80	80	80	80	130	130	130	130	130	130	130	130
M	30	30	30	30	30	30	30	30	30	30	30	30	30	30
N	4-M5x9	4-M5x9	4-M5x9	4-M5x9	4-M5x9	4-M5x9	4-M5x9	4-M5x9	4-M5x9	4-M5x9	4-M5x9	4-M5x9	4-M5x9	4-M5x9
O	50	50	50	70	102	102	125	140	140	165	165	165	254	254
P	4-M6x9	4-M6x9	4-M6x9	4-M8x12	4-M10x15	4-M10x15	4-M12x18	4-M16x24	4-M16x24	4-M20x30	4-M20x30	4-M20x30	4-M16x24	4-M16x24
O1	36	36	36	50	70	70	102	102	125	-	-	-	165	165
P1	4-M5x8	4-M5x8	4-M5x8	4-M6x9	4-M8x12	4-M8x12	4-M10x15	4-M10x15	4-M12x18	-	-	-	4-M20x30	4-M20x30
Q	9	11	14	14	17	22	27	27	36	46	46	46	46	46
V	20	24	24	24	24	24	24	24	24	24	40	40	40	40
W	29	36	36	36	36	36	36	36	36	36	45	45	45	45
Y	4-M4x9	4-M5x9	4-M5x8	4-M5x8	4-M5x9	4-M5x9	4-M5x9	4-M5x9	4-M5x9	4-M5x9	4-M6x10	4-M6x10		4-M6x10
Z	G1/8"	G1/8"	G1/8"	G1/8"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G3/8"	G1/2"	G1/2"	G1/2"

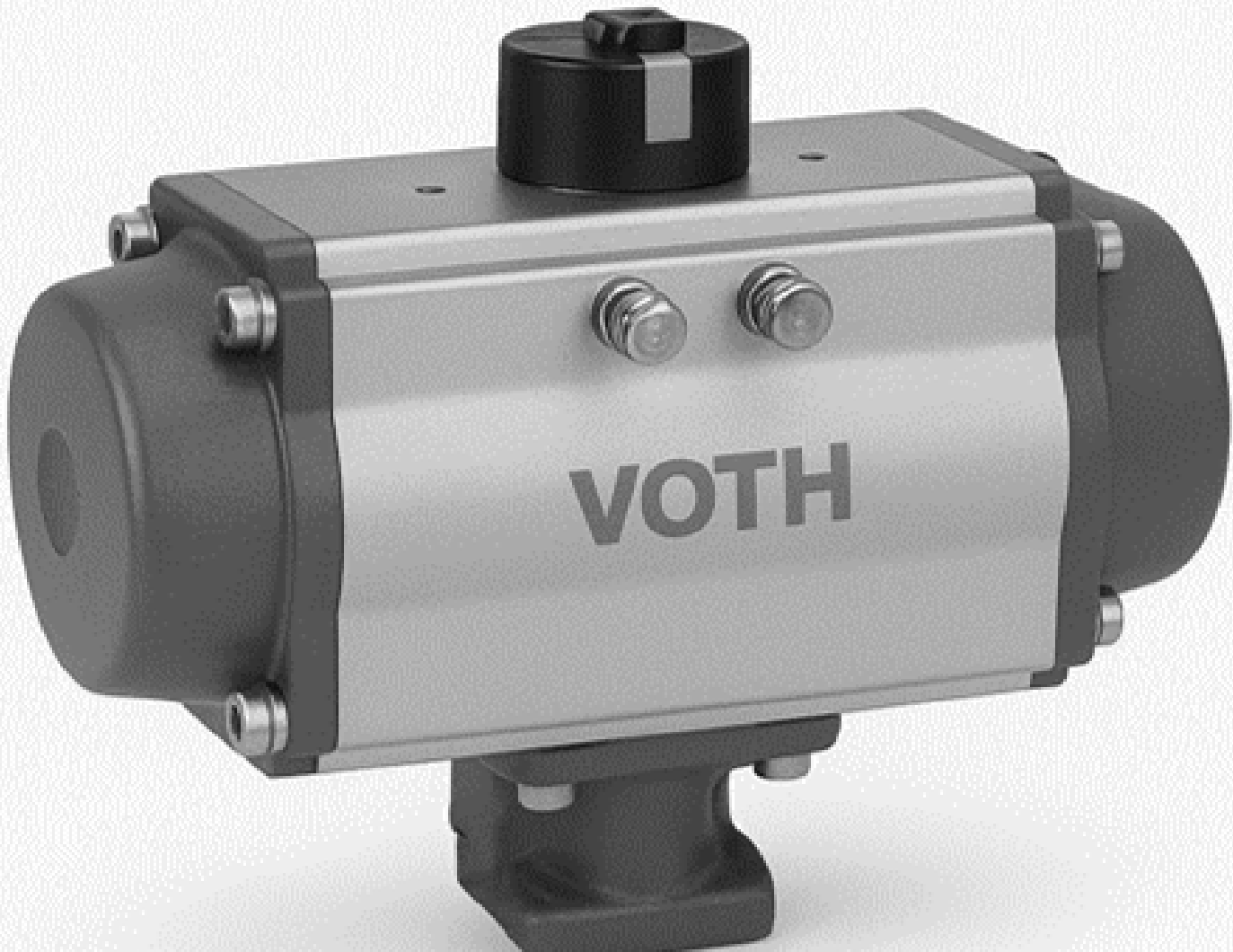
Output Torque

Double Acting Output Torque (Nm)

Actuator Model	2.5bar	3.0bar	3.5bar	4.0bar	4.5bar	5.0bar	5.5bar	6.0bar	7.0bar	8.0bar
VAT042D	3.6	4.3	5	5.7	6.4	7.3	8	8.7	10	11.6
VAT050D	8.3	10.0	11.6	13.3	15.0	16.6	18.3	199	23 3	26.6
VAT063D	14.7	17.6	20.5	23.5	36.4	29.3	32.2	353	41.0	46. 9
VAT075D	29.1	34.9	40.7	46.5	52.3	58.2	64.0	69.8	81 4	93.0
VAT088D	45.7	54.9	64.0	73.2	82.3	91.5	101	110	128	146
VAT100D	66.5	79.7	93.0	106	120	133	146	160	186	213
VAT115D	107	1 29	150	172	193	215	236	258	301	344
VAT125D	138	166	194	221	249	277	304	332	387	443
VAT145D	217	261	304	348	391	434	478	521	608	695
VAT160D	283	340	397	453	510	567	623	680	793	907
VAT190D	538	646	753	861	969	1 07	118 5	1292	1508	1723
VAT210D	658	789	920	1052	1184	1316	1447	1579	1842	2105
VAT240D	966	1160	1352	1546	1740	1933	2126	2320	2706	3093
VAT270D	1468	1761	2055	2349	2642	2936	3229	3523	4110	4697
VAT300D	1908	2289	2670	3052	3434	3815	4197	4578	5341	6104
VAT350D	2856	3427	3998	4570	5141	5712	628 3	6854	7997	9139
VAT400D	4069	4883	5697	6511	7325	8139	8953	9767	11394	13022

Single Action Output Torque (Spring Return) (Nm)

Actuator Models	Spring Quantity	Air Pressure Torque													
		4.5 bar		5.0 bar		5.5 bar		6.0 bar		7.0 bar		8.0 bar		Spring Return	
		0° end	90° end	0° end	90° end	0° end	90° end	0° end	90° end	0° end	90° end	0° end	90° end	0° end	90° end
VAT050S	10	8.2	5.2	9.8	6.9	11.5	8,5	13.2	10.2	16.5	13.5	19.8	16.8	9.7	6.8
VAT063S	10	15.3	9.4	18.2	12.4	21.1	15.3	24.2	18.2	29.9	24.1	35.8	29.9	16.9	11.1
VAT075S	10	30.2	17.7	36	235	41.8	29.3	47.6	35.1	59.2	467	70.9	58.4	346	22.1
VAT088S	10	45 6	24.5	54.7	33 7	63.9	42.8	73	52	91.3	70.2	110	88.5	57.8	36.7
VAT100S	10	68.9	40.7	82.2	54	95.5	67.3	109	80.5	13 5	107	162	134	78.8	50.6
VAT115S	10	111	62.1	133	836	154	105	176	127	219	170	261	212	131	82
VAT125S	10	144	84	172	112	200	140	227	167	283	223	338	327	165	105
VAT145S	10	227	133	270	177	313	220	357	263	444	350	531	437	258	165
VAT160S	10	286	178	343	235	399	291	456	248	869	461	683	575	332	224
VAT190S	10	440	210	656	426	765	535	871	641	1087	857	1302	1072	586	379
VAT210S	10	473	253	737	517	605	657	1000	780	1263	1043	1526	1306	719	521
VAT240S	10	887	566	1066	745	1246	923	1423	1102	178 1	1459	2138	1817	1042	721
VAT270S	10	1472	987	1758	1281	2059	1567	2345	1868	2932	2465	3519	3047	1490	1060
VAT300S	10	1814	1074	2193	1458	257 7	1837	2956	2221	3719	2984	4482	374?	2122	1460
VAT350S	10	2531	1361	3105	1929	3673	2503	4247	3071	5390	4212	6532	5356	3405	2346
VAT400S	10	3833	3041	4640	2653	5461	4669	6268	4281	7895	5808	9523	7526	4115	3624



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