

Pneumatic actuators type VT Double Acting

For 2 & 3-way valves type G/L/M/S 2FM-T & G/L/M/S 3FM-T

0-6.5.16

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APPLICATIONS

Pneumatic actuators type VT and are the main component of the automatic control system.

It is mainly used for rotary angle 90° to open and close the rotary Clorius valves.

Double-acting cylinders have an air port at each end and move the piston forward and back by alternating the port that receives the high-pressure air.

Pneumatic actuators type VT has cooperated with manual override type KH or mounted directly on the valve.

VT actuators are made in accordance with the latest international standards and higher efficiency and reliability.

QUALITY

Products manufactured acc. to ISO9001 standard.

Each individual actuator has been factory inspected and tested and given a serial number for full traceability.

A single compact design utilising identical body and end caps for both - double and single acting.

Full conformance to following latest specifications: ISO 5211, DIN 3337 and VDI/VDE 3845 for products interchangeability and easy mounting of solenoids, limit switches and other accessories.

TECHNICAL DATA

Materials:

Body	Aluminum alloy
Cap	Aluminum alloy
Drive shaft	Alloy Steel
Nut	Stainless steel
Washer	Stainless steel
Position indicator	Nylon
Indicator thrust bearing	Stainless steel
Bearing	POM+PTFE
Wear band	Nylon
Spring seat	Nylon
"o" ring	NBR

FEATURES

VT series pneumatic actuators have an advantageous characteristic in:

- Reliability
- High performance
- Extensive products range allows the best versatility
- Compact and light
- VT piston rack and pinion design for compact construction, symmetric mounting position, high-cycle life and fast operation.
- Two independent external travel stop adjustments permit easy and precise adjustment of +/- 5° In both directions.
- This adjustment may be made in either the open or closed position and provides for accurate valve.
- Multiple bearings and guides on pistons and racks for precise operation, low friction, high cycle life and a blowout proof pinion shaft.
- Electroless nickel- plated blowout resistant, bearing guided, one-piece pinion shaft for improved safety and maximum cycle life.
- High precision teeth on piston racks and pinion shaft for accurate positioning, low backlash, and maximum engagement resulting in overall efficient operation.
- Extruded aluminium body with both internal and external corrosion protections having a honed cylinder surface for longer life and a lower coefficient of friction.
- Selected high-quality bearings and seals that provide a wide operating temperature range, low friction, and high cycle life.
- Multifunctional position indicator for visual position indication, and a direct, easy, economical way to mount popular sensor.
- Protection class in IP65

Subject to change without notice.

RECOMMENDED PNEUMATIC ACTUATORS TYPES DOUBLE ACTING AND CLORIUS ROTARY VALVES AND DECLUTCH

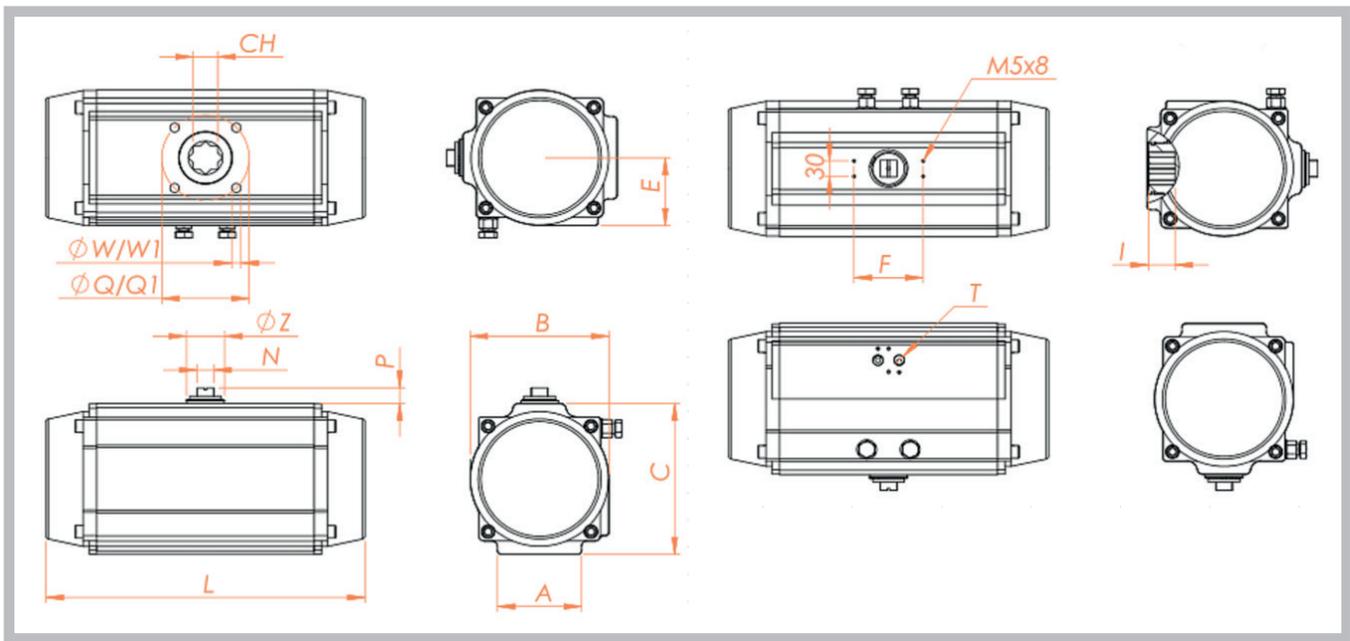
DN	Type	Drop pressure (P1 ≤ ...bar)	Pneumatic Actuator for DP 5 bar	DECLUTCH
65	G3FM-T	25	VT085D	KH-1
65	G3FM-TM	25	VT095D	KH-2
80	G3FM-T	25	VT095D	KH-2
80	G3FM-TM	25	VT095D	KH-2
100	G3FM-T	25	VT110D	KH-2
100	G3FM-TM	25	VT125D	KH-3
125	G3FM-T	25	VT125D	KH-3
125	G3FM-TM	25	VT140D	KH-3
150	G3FM-T	16	VT125D	KH-3
150	G3FM-TM	16	VT140D	KH-3
200	G3FM-T	16	VT160D	KH-4
200	G3FM-TM	16	VT190D	KH-4
250	G3FM-T	16	VT190D	KH-4
250	G3FM-TM	16	VT210D	KH-5
300	G3FM-T	16	VT210D	KH-5
300	G3FM-TM	16	VT240D	KH-5
350	G3FM-T	10	VT240D	KH-5
350	G3FM-TM	10	VT240D	KH-5
400	G3FM-T	10	VT240D	KH-5
400	G3FM-TM	10	VT270D	KH-6
450	G3FM-T	10	VT270D	KH-6
450	G3FM-TM	10	VT300D	KH-6
500	G3FM-T	10	VT270D	KH-6
500	G3FM-TM	10	Available on request	
600	G3FM-T	10	VT350D	KH-7
600	G3FM-TM	10	Available on request	

Other relevant data sheets for VT actuators:

- 2-way valves
- 3-way valves
- Positioners
- Filter regulators
- Controller
- Sensor PT 100
- Pneumatic controller S80

- G2FM-T 0.2.5.05.01
- G3FM-T 0.2.6.02, 0.2.6.03
- 0.6.6.01, 0.6.6.02
- 0.6.8.01
- ER2000 0.4.6.01
- 0.4.7.01
- 0.6.7.01

DIMENSION SKETCH



MODEL	A	B	C	D	E	F	P	ϕZ	N	I	FLANGE	Q	Q1	W	W1	Ch	T	Weight [kg]
VT085D	68	112.5	113	229	63.5	80	20	40	14	19	F 05/07	50	70	M6x9	M8x12	17x17	G1/4'	3.8
VT095D	92	126	123	264	71	80	20	40	14	19	F05/07	50	70	M6x9	M8x12	17x17	G1/4'	5.1
VT110D	93	138.5	136	266	76.5	80	20	40	14	19	F07/10	70	102	M8x12	M10x15	17x17	G1/4'	6.1
VT125D	96	157	161	337	85	80	30	56	22	25	F07/10	70	102	M8x12	M10x15	22x22	G1/4'	10.9
VT140D	110	178	178	377	97	80	30	56	22	31	F10/12	102	125	M10x15	M12x18	27x27	G1/4'	13.8
VT160D	112	196	200	412	106	130	30	56	22	31	F10/12	102	125	M10x15	M12x18	27x27	G1/4'	20.2
VT190D	136	216.5	232	488	112	130	30	56	22	41	F10/14	102	140	M10x15	M16x24	36x36	G1/4'	28.4
VT210D	140	235.5	255	550	120	130	30	80	32	40	F14	-	140	-	M16x24	36x36	G1/4'	40.0
VT240D	159	262	292	602	131	130	30	80	32	50	F16	-	165	-	M20x28	46x46	G1/2'	52.6
VT270D	159	295	331	672	147.5	130	30	80	32	50	F16	-	165	-	M20x28	46x46	G1/2'	73.6
VT300D	180	335	354	784	173	130	30	80	32	50	F16	-	165	-	M20x28	46x46	G1/2'	108.0
VT350D	270	385	410	845	195	130	30	80	32	50	F16/F25	165	254	M20x28	M16x30	46x46	G1/2'	146.7
VT400D	290	520	466	956	260	130	30	80	32	60	F25	-	254	-	M16x30	55x55	G1/2'	220.5