VZTORQUE™

WEATHERPROOF FAIL SAFE ELECTRIC ACTUATOR

Features:

- Quarter turn operation (See specs below for models capable of 360-degree rotation. 360-degree models would be the VZTF series).
- Heavy duty motor with thermal overload protection.
- Rugged IP68/NEMA 4X aluminum alloy housing.
- C3 level corrosion resistance with powder coated, 1000 hours of salt spray.
- IP67 Rated.
- Over Torque Protection Switch.
- Standard ISO5211 direct installation.
- Manual override with handwheel.
- Installation at any angle.
- Heater for eliminating condensation.
- Fail safe via Lithium Battery.
- Self-locking high strength gear train to keep last known position. High Speed models are not self-locking except for VZT-2655-10.



Description

VZT weatherproof failsafe series actuators are battery backup failsafe electric actuators. When power is lost to the actuator, the battery will drive the actuator to preset fail safe position such as full open or full close. Fail position is field selectable. Actuators are field selectable as on/off control or 4-20ma control except on the VZT-442-20. On/off control requires a signal to open or close actuator and will move to the failsafe position on loss of 24VDC power. If using 4-20ma control, the actuator will move to the failsafe position on loss of 4-20ma and/or on loss of 24VDC power.

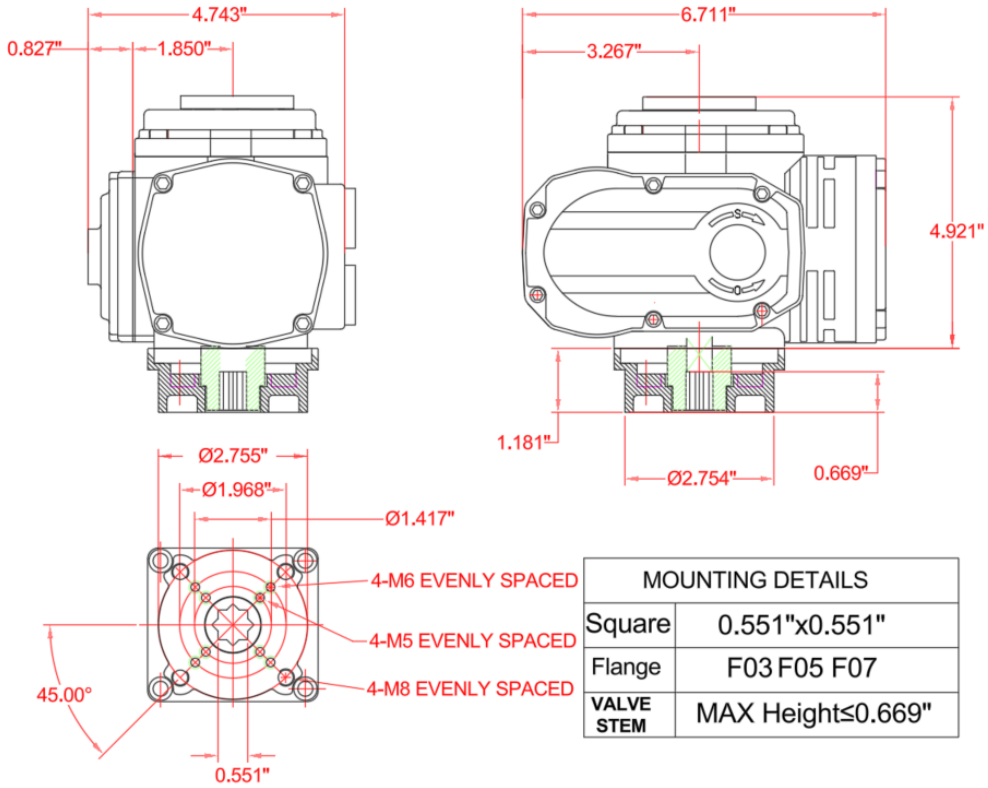
Specifications

Standard Speed Type	VZT-442-20	VZT-885-15	VZT-1770-15	VZT-3540-30
Output Torque in-lbs.	442	885	1,770	3,540
No Load Stroke Time sec	20	35	35	22
Full load Stroke Time sec	25	30	30	30
Rotation Angle	0-110° or 0-360°	0-110°	0-110°	0-110°
Motor Watts	10	40	40	70
Power	24DC Standard (12VDC and 120VAC Conversion Kits are available)			
Rated Current – amps@24VDC	1.5	2.2	3.1	7.8
Total Weight	6.6 lbs.	11 lbs.	12.1 lbs.	20.9 lbs.
Control Type	On/Off or 4-20 Modulating/Modbus			
Output Singal	On/Off has Dry Contacts, Modulating has Dry Contacts and 4-20ma/Modbus			
On/Off Dry Contact Rating	15 amps			
Basic Error/Reciprocating Error	not more than ±1% (Modulating Unit)			
Dead Space	0.5%-5.0% adjustable (Modulating Unit)			
Repeating Error in Actuator	≤1% (Modulating Unit)			
Insulating Resistance	100MΩ/500VDC (Modulating Unit)			
Withstand Voltage Class	1500VAC 1 minute (Modulating Unit)			
Electric Connections	2 x ½" NPT			
Ambient Temperature	-25℃~+55℃			
VZT-442-20 IS NOT UNIVERSAL CONTROL. MUST BE ORDERED AS ON/OFF OR MODULATING.				
360° MODELS MUST BE ORDERED AS VZT360				

Standard Speed Type	VZT-5310-45	VZT-8850-50	VZT-13276-60	VZT-26550-140
Output Torque in-lbs.	5,310	8,850	13,276	26,550
No Load Stroke Time sec DC	26	39	48	136
Full load Stroke Time sec DC	45	50	60	170
Rotation Angle	0-110°	0-110° or 0-360°	0-110°	0-110° or 0-360°
Motor Watts DC	70	113	113	113
Power	24DC Standard (12VDC and 120VAC Conversion Kits are available)			
Rated Current – amps@24VDC	8.0	6.1	6.1	7.5
Total Weight	22 lbs.	32 lbs.	46 lbs.	47 lbs.
Control Type	On/Off or 4-20 Modulating/Modbus			
Output Singal	On/Off has Dry Contacts, Modulating has Dry Contacts and 4-20ma/Modbus			
On/Off Dry Contact Rating	15 amps			
Basic Error/Reciprocating Error	not more than ±1% (Modulating Unit)			
Dead Space	0.5%-5.0% adjustable (Modulating Unit)			
Repeating Error in Actuator	≤1% (Modulating Unit)			
Insulating Resistance	100MΩ/500VDC (Modulating Unit)			
Withstand Voltage Class	1500VAC 1minute (Modulating Unit)			
Electric Connections	2 x ½" NPT			
Ambient Temperature	-25℃~+55℃			

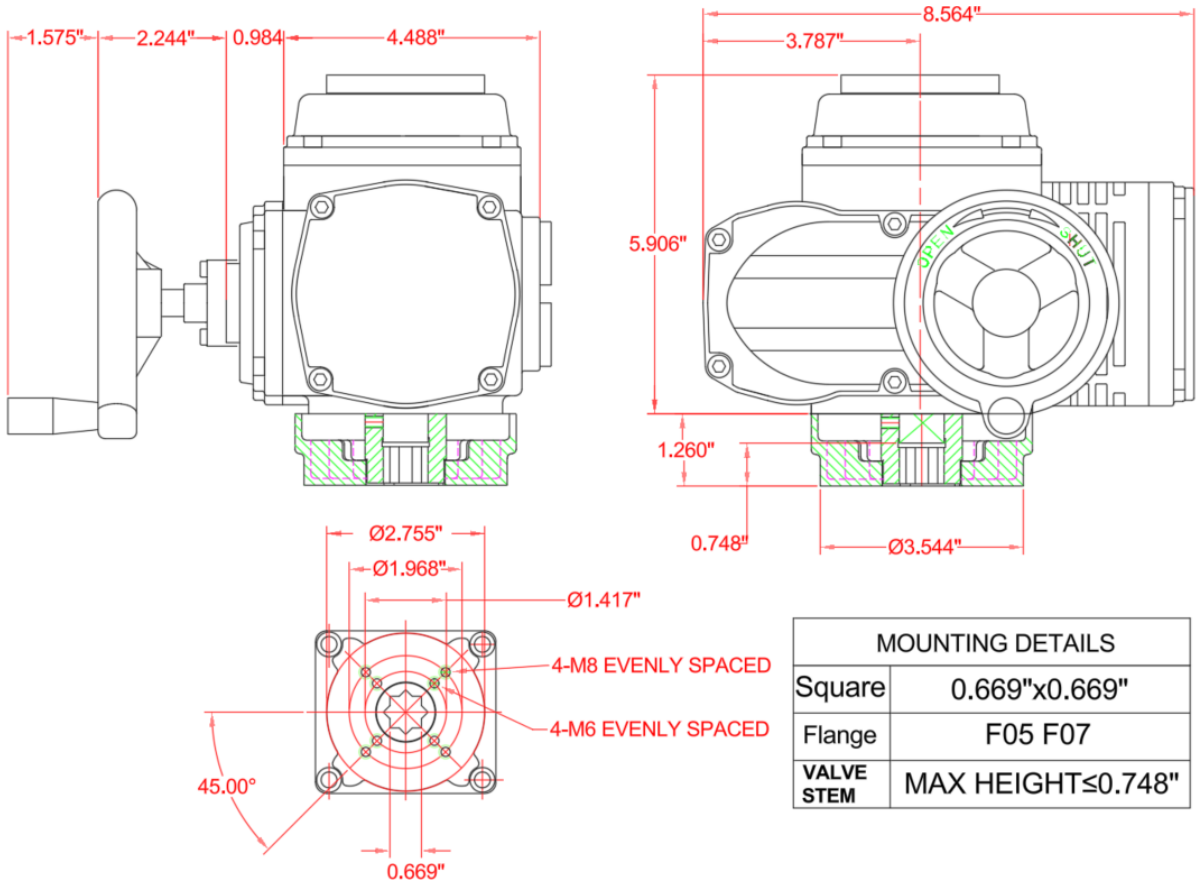
FAST SPEED Type	VZT-442-5	VZT-1770-5	VZT-2655-10	VZT-5310-13
Output Torque in-lbs.	442	1,770	2,655	5,310
No Load Stroke Time sec DC/AC	2.2@90 deg	4.7 @90 deg	9@90 deg	13@90 deg
Full load Stroke Time sec DC/AC	4 @90 deg	5 @90 deg	10 @90 deg	15@90 deg
Rotation Angle	0-110°	0-110°	0-110°	0-110° or 0-360°
Motor Watts DC/AC	30	90	90	113
Power	24DC Standard (12VDC and 120VAC Conversion Kits are available)			
Rated Current – amps@24VDC	0.8	8.0	7.5	6.8
Total Weight	12	22	30	32
Control Type	On/Off or 4-20 Modulating/Modbus			
Output Singal	On/Off has Dry Contacts, Modulating has Dry Contacts and 4-20ma/Modbus			
On/Off Dry Contact Rating	15 amps			
Basic Error/Reciprocating Error	not more than ±1% (Modulating Unit)			
Dead Space	0.5%-5.0% adjustable (Modulating Unit)			
Repeating Error in Actuator	≤1% (Modulating Unit)			
Electric Connections	2 x ½" NPT			
Ambient Temperature	-25℃~+55℃			
Fast models excluding VZT-2655-10 are NOT self-locking & NOT suitable for some butterfly valves				

VZT-442-20



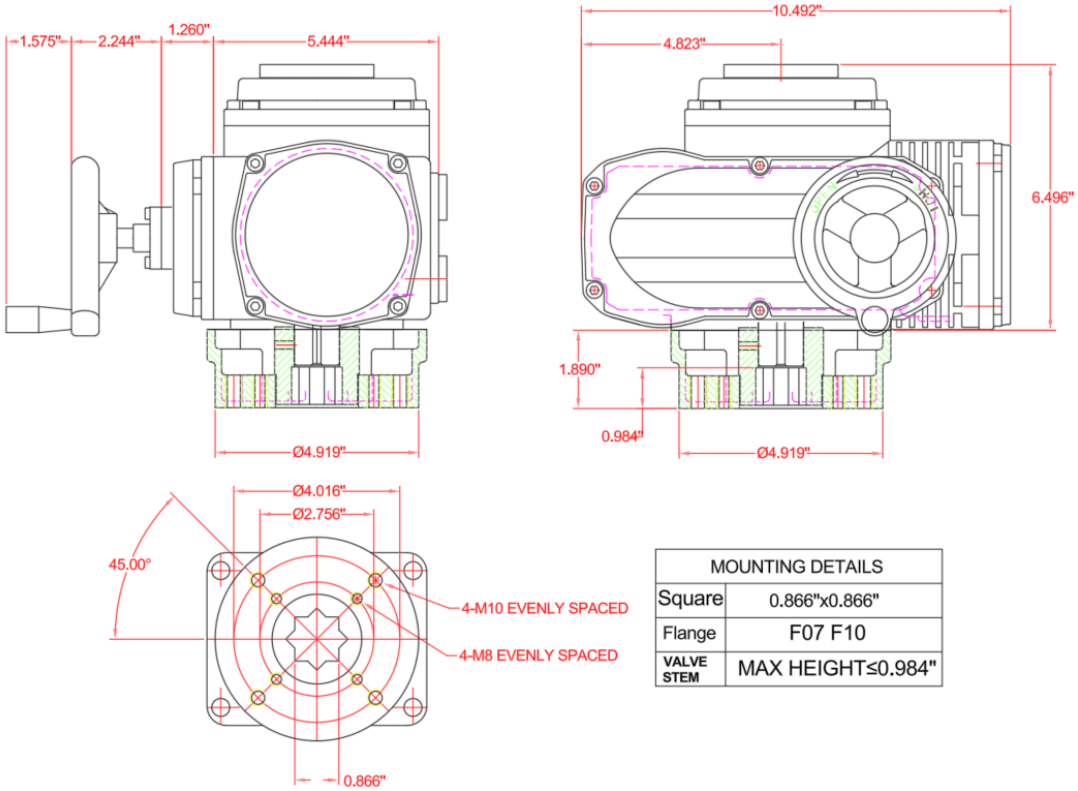
MOUNTING DETAILS	
Square	0.551"x0.551"
Flange	F03 F05 F07
VALVE STEM	MAX Height≤0.669"

VZT-442-5, VT-885-15 AND VZT-1770-15



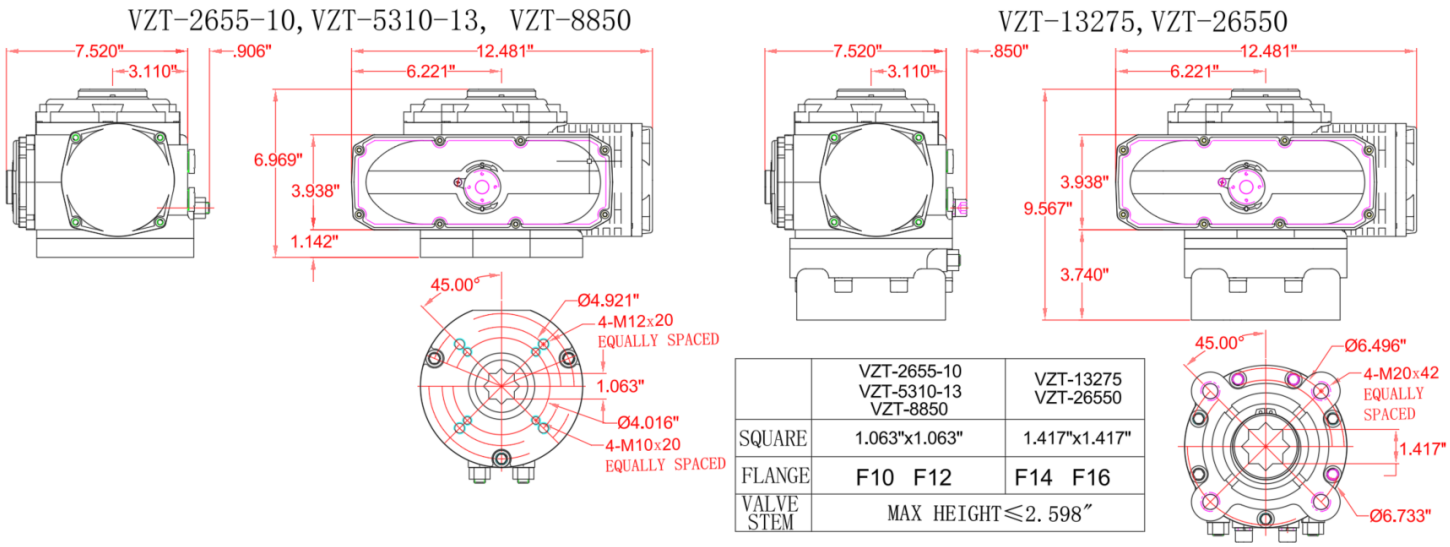
MOUNTING DETAILS	
Square	0.669"x0.669"
Flange	F05 F07
VALVE STEM	MAX HEIGHT≤0.748"

VZT-1770-5, VT-3540, AND VZT-5310-45



MOUNTING DETAILS	
Square	0.866"x0.866"
Flange	F07 F10
VALVE STEM	MAX HEIGHT≤0.984"

VT-8850 VZT-13276 VZT-26550 STANDARD SPEED AND VZT-2655-10 VZT-5310-13



	VZT-2655-10 VZT-5310-13 VZT-8850	VZT-13275 VZT-26550
SQUARE	1.063"x1.063"	1.417"x1.417"
FLANGE	F10 F12	F14 F16
VALVE STEM	MAX HEIGHT≤2.598"	

FOR INQUIRES EMAIL VanZandt Controls,

RFQCanyon@vzcontrols.com RFQFarmington@vzcontrols.com RFQTulsa@vzcontrols.com
RFQFortWorth@vzcontrols.com RFQOdessa@vzcontrols.com RFQSanAntonio@vzcontrols.com
RFQRifle@vzcontrols.com RFQHouston@vzcontrols.com RFQCarlsbad@vzcontrols.com
RFQLongview@vzcontrols.com RFQHobbs@vzcontrols.com RFQGreeley@vzcontrols.com

OR Call VanZandt Controls:

Ft Worth TX-888-649-4283 Farmington NM-505-334-4343 Odessa Tx-432-242-8000 Tulsa OK-918-216-1058
Greeley CO-720345-0150 Longview TX- -817-771-1636 Houston TX-832-821-7333 Hobbs NM-575-942-2671
Canyon TX-806-655-9367 SanAnton.TX-210-693-0430 Carlsbad TX-575-717-0210 Rifle CO-970-625-1525

For online store: https://www.shopvzcontrols.com/