VZTORQUE™

WEATHERPROOF FAIL IN PLACE 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 handwheel. (Except VZT-442-20)
- Installation at any angle.
- Heater for eliminating condensation.
- Fail in Place on Loss of power or Fail Safe on loss of 4-20ma signal.
- 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 fail in place electric series actuators are available in 12VDC, 24VDC, 120VAC or 220VAC. When power is lost to the actuator, it will fail in place. The 24VDC, 120VAC and 220VAC are available in modulating or on/off service. 12VDC models are on/off service and not modulating.

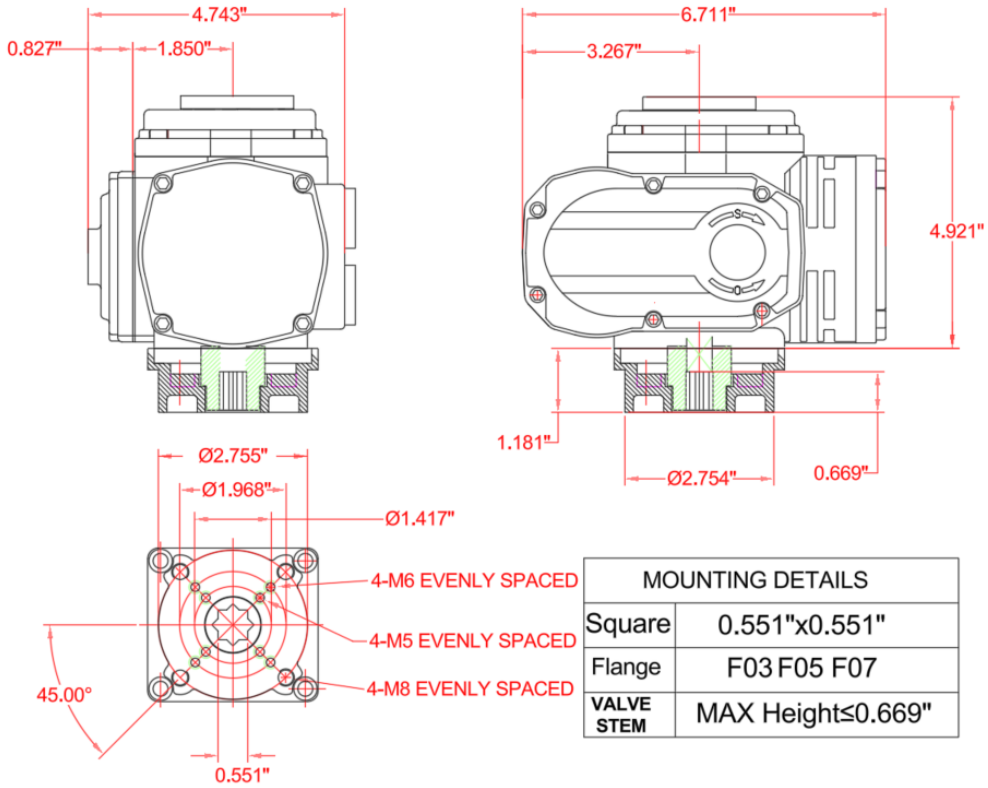
Specifications

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℃			
	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℃			

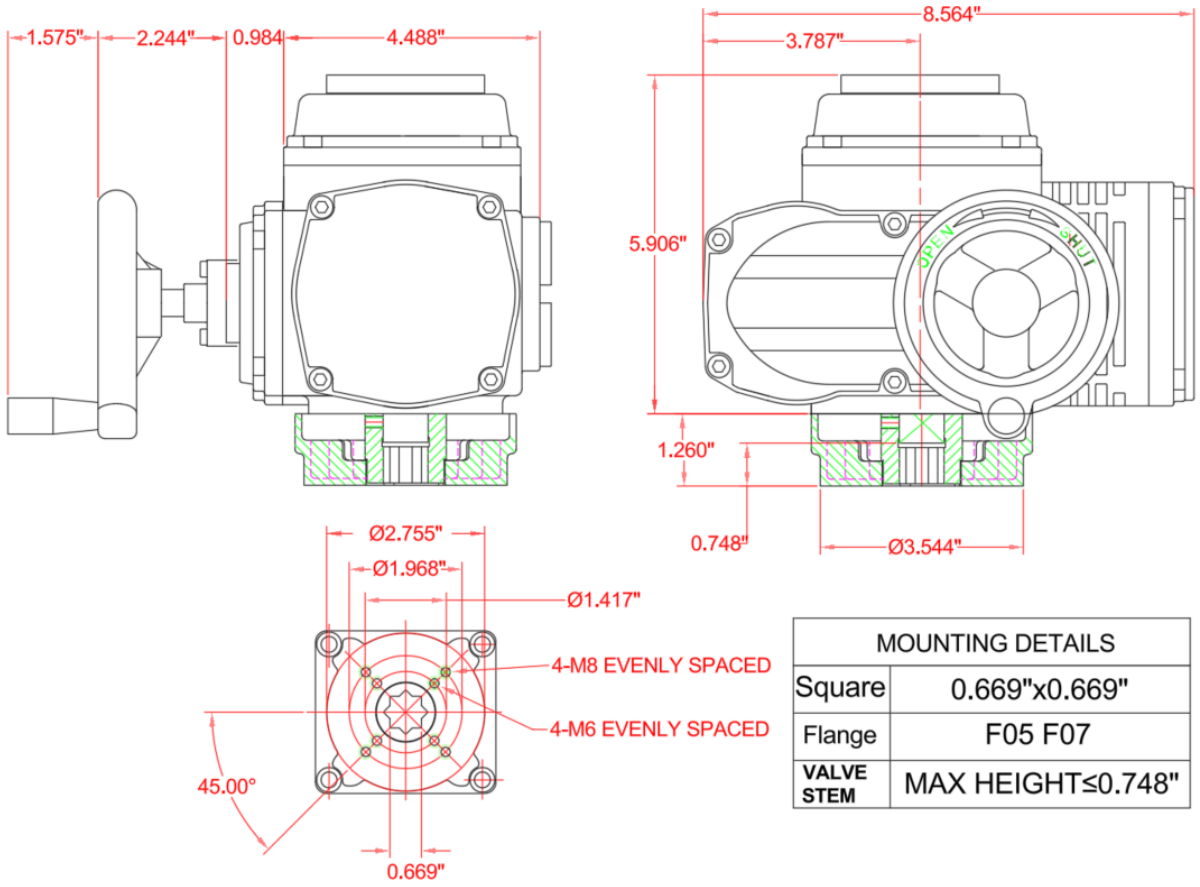
FAST SPEED Type	VZT-442-5	VZT-1770-5	VZT-2655-10	VZT-5310-13
Output Torque in-lbs.	442	1,770	2,655	5,310
No Load Stroke Time sec DC/AC	2.2@90 deg	4.7 @90 deg	9@90 deg	13@90 deg
Full load Stroke Time sec DC/AC	4 @90 deg	5 @90 deg	10 @90 deg	15@90 deg
Rotation Angle	0-110°	0-110°	0-110°	0-110° or 0-360°
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



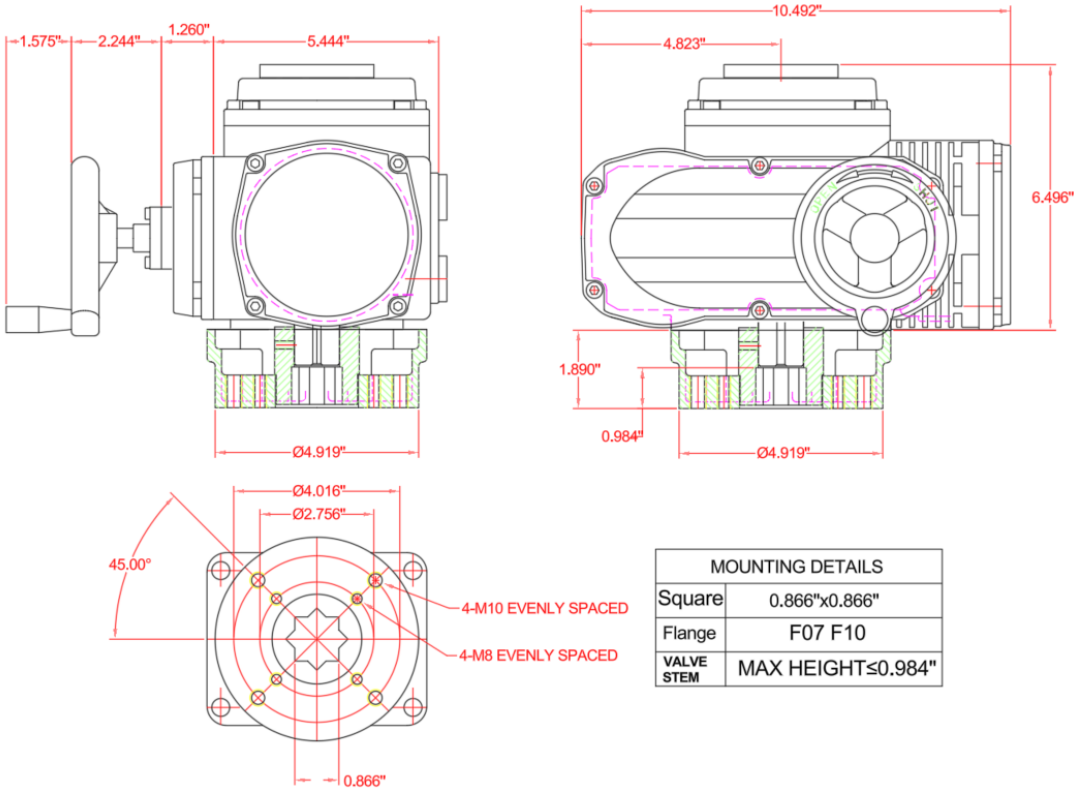
MOUNTING DETAILS	
Square	0.551"x0.551"
Flange	F03 F05 F07
VALVE STEM	MAX Height≤0.669"

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



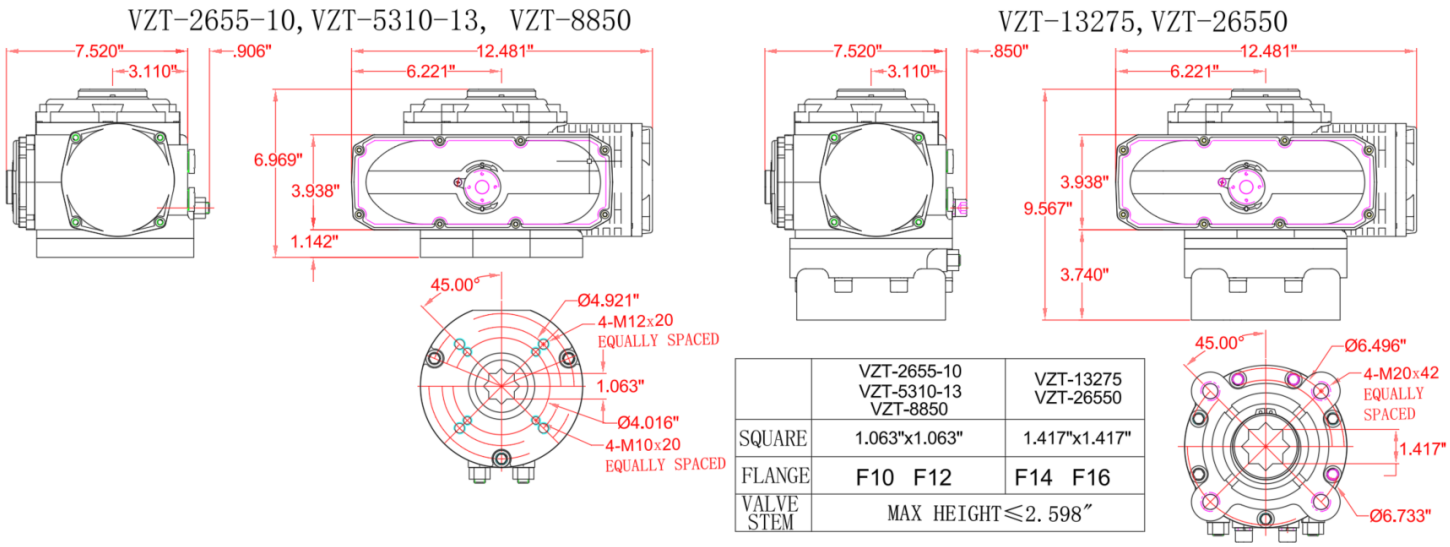
MOUNTING DETAILS	
Square	0.669"x0.669"
Flange	F05 F07
VALVE STEM	MAX HEIGHT≤0.748"

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, 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"	

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