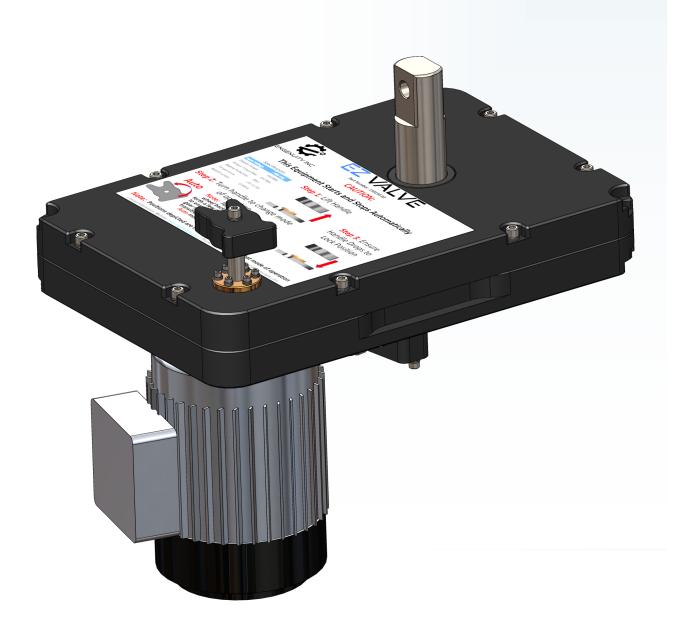


# **EZ VALVE**

EZ Valve is a revolutionary retrofittable actuator that integrates into a control automation package. This system provides real-time positioning and allows for fully automatic valve alignment. EZ Valve actuator has 3 modes of operation; automatic, manual, or manual while in automatic mode.

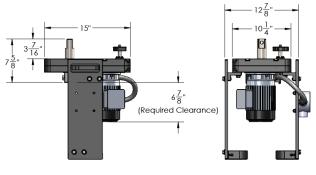


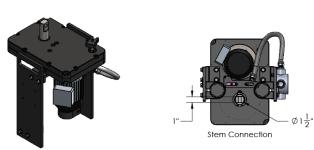




valve types. Listed are the standard specifications and features.

### **Actuator Specifications (PN 150150-02)**





Specification	Parameter
Input Voltage	460 VAC
НР	.5
Rated Current	.949
Output Torque	165 ft-lbs.
Max Output Torque	225 ft-lbs.
Operating Temp	-20c to 65c
Storage Temp	-40c to 85c
Protection	IP65
Class Location	C1D2 / Optional C1D1 / ATEX
Noise Level	50db
Service Factor	1.15
Dimensions	L15in x W10.25in x H12.25in
Weight	55 lbs.

### **Feature List**

Retrofittable hardware requires no modification of OEM components

Integrates with BOPX software and EZ product lines

Automatic and manual valve operation modes

Real time confirmation of valve position onsite and remotely via monitoring center

Reduces/eliminates exposure associated with Well Control Equipment pressure test

Provides consistent repeatable valve alignment times and results

Provides real time opening and closing torque values

System alarm historian

EZ Valve torque historian

Real time valve state monitoring both in Automatic and Manual operation modes

Follows manual hand wheel Open/Close position standards (Open inline with pipe) (Close 90deg with pipe)

Configurable line ups for both pressure testing and operations, allowing single button operation to perform complete line up.

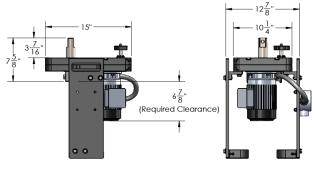
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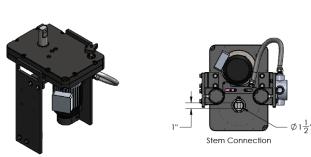




valve types. Listed are the standard specifications and features.

### **Actuator Specifications (PN 150150-02)**





Specification	Parameter
Input Voltage	460 VAC
НР	.75
Rated Current	.949
Output Torque	200 ft-lbs.
Max Output Torque	305 ft-lbs.
Operating Temp	-20c to 65c
Storage Temp	-40c to 85c
Protection	IP65
Class Location	C1D2 / Optional C1D1 / ATEX
Noise Level	50db
Service Factor	1.15
Dimensions	L15in x W10.25in x H12.25in
Weight	55 lbs.

#### **Feature List**

Retrofittable hardware requires no modification of OEM components

Integrates with BOPX software and EZ product lines

Automatic and manual valve operation modes

Real time confirmation of valve position onsite and remotely via monitoring center

Reduces/eliminates exposure associated with Well Control Equipment pressure test

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Real time valve state monitoring both in Automatic and Manual operation modes

Follows manual hand wheel Open/Close position standards (Open inline with pipe) (Close 90deg with pipe)

Configurable line ups for both pressure testing and operations, allowing single button operation to perform complete line up.

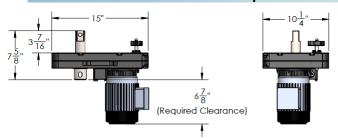
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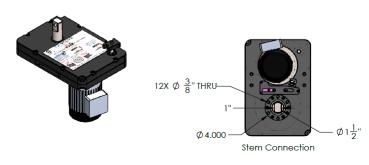


valve types. Listed are the standard specifications and features.

### Actuator Specifications (PN 150150-02)(Flange Mount)



Specification	Parameter
Input Voltage	460 VAC
НР	.5
Rated Current	.949
Output Torque	165 ft-lbs.
Max Output Torque	225 ft-lbs.
Operating Temp	-20c to 65c
Storage Temp	-40c to 85c
Protection	IP65
Class Location	C1D2 / Optional C1D1 / ATEX
Noise Level	50db
Service Factor	1.15
Dimensions	L15in x W10.25in x H12.25in
Weight	55 lbs.



#### **Feature List**

Retrofittable hardware requires no modification of OEM components

Integrates with BOPX software and EZ product lines

Automatic and manual valve operation modes

Real time confirmation of valve position onsite and remotely via monitoring center

Reduces/eliminates exposure associated with Well Control Equipment pressure test

Provides consistent repeatable valve alignment times and results

Provides real time opening and closing torque values

System alarm historian

EZ Valve torque historian

Real time valve state monitoring both in Automatic and Manual operation modes

Follows manual hand wheel Open/Close position standards (Open inline with pipe) (Close 90deg with pipe)

Configurable line ups for both pressure testing and operations, allowing single button operation to perform complete line up.

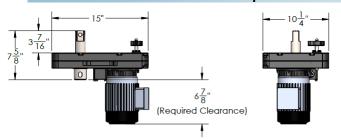
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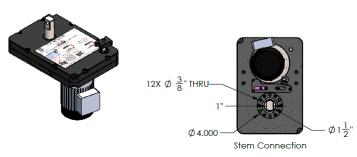


valve types. Listed are the standard specifications and features.

### Actuator Specifications (PN 150150-02)(Flange Mount)



Specification	Parameter
Input Voltage	460 VAC
НР	.75
Rated Current	.949
Output Torque	200 ft-lbs.
Max Output Torque	305 ft-lbs.
Operating Temp	-20c to 65c
Storage Temp	-40c to 85c
Protection	IP65
Class Location	C1D2 / Optional C1D1 / ATEX
Noise Level	50db
Service Factor	1.15
Dimensions	L15in x W10.25in x H12.25in
Weight	55 lbs.



#### **Feature List**

Retrofittable hardware requires no modification of OEM components

Integrates with BOPX software and EZ product lines

Automatic and manual valve operation modes

Real time confirmation of valve position onsite and remotely via monitoring center

Reduces/eliminates exposure associated with Well Control Equipment pressure test

Provides consistent repeatable valve alignment times and results

Provides real time opening and closing torque values

System alarm historian

EZ Valve torque historian

Real time valve state monitoring both in Automatic and Manual operation modes

Follows manual hand wheel Open/Close position standards (Open inline with pipe) (Close 90deg with pipe)

Configurable line ups for both pressure testing and operations, allowing single button operation to perform complete line up.

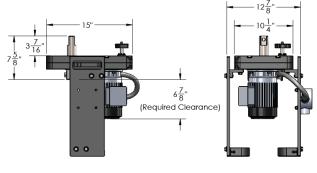
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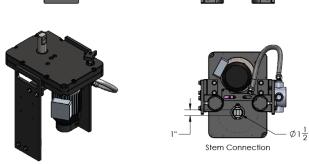




valve types. Listed are the standard specifications and features.

# Actuator Specifications (PN 150150-02)(Hi Torque)





Specification	Parameter
Input Voltage	460 VAC
НР	.75
Rated Current	2.5
Output Torque	310 ft-lbs.
Max Output Torque	450 ft-lbs.
Operating Temp	-20c to 65c
Storage Temp	-40c to 85c
Protection	IP65
Class Location	C1D2 / Optional C1D1 / ATEX
Noise Level	50db
Service Factor	1.15
Dimensions	L15in x W10.25in x H12.25in
Weight	65 lbs.

### **Feature List**

Retrofittable hardware requires no modification of OEM components

Integrates with BOPX software and EZ product lines

Automatic and manual valve operation modes

Real time confirmation of valve position onsite and remotely via monitoring center

Reduces/eliminates exposure associated with Well Control Equipment pressure test

Provides consistent repeatable valve alignment times and results

Provides real time opening and closing torque values

System alarm historian

EZ Valve torque historian

Real time valve state monitoring both in Automatic and Manual operation modes

Follows manual hand wheel Open/Close position standards (Open inline with pipe) (Close 90deg with pipe)

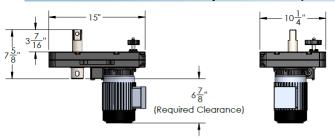
Configurable line ups for both pressure testing and operations, allowing single button operation to perform complete line up.



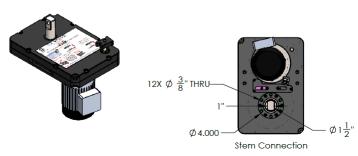


valve types. Listed are the standard specifications and features.

### Actuator Specifications (PN 150150-02)(Flange Mount)(Hi Torque)



Specification	Parameter
Input Voltage	460 VAC
НР	.75
Rated Current	2.5
Output Torque	310 ft-lbs.
Max Output Torque	450 ft-lbs.
Operating Temp	-20c to 65c
Storage Temp	-40c to 85c
Protection	IP65
Class Location	C1D2 / Optional C1D1 / ATEX
Noise Level	50db
Service Factor	1.15
Dimensions	L15in x W10.25in x H12.25in
Weight	65 lbs.



### **Feature List**

Retrofittable hardware requires no modification of OEM components

Integrates with BOPX software and EZ product lines

Automatic and manual valve operation modes

Real time confirmation of valve position onsite and remotely via monitoring center

Reduces/eliminates exposure associated with Well Control Equipment pressure test

Provides consistent repeatable valve alignment times and results

Provides real time opening and closing torque values

System alarm historian

EZ Valve torque historian

Real time valve state monitoring both in Automatic and Manual operation modes

Follows manual hand wheel Open/Close position standards (Open inline with pipe) (Close 90deg with pipe)

Configurable line ups for both pressure testing and operations, allowing single button operation to perform complete line up.

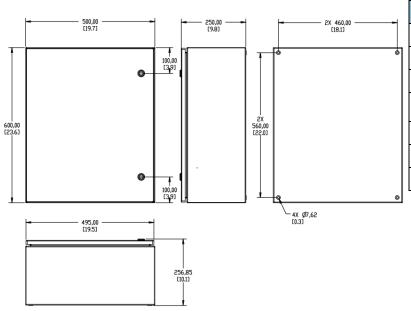
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valve types. Listed are the standard specifications and features.

# **Control Panel Specifications (PN 150557-02)**



Specification	Parameter
Input Voltage	120/240 VAC
Amps	5 nominal, 10 inrush @ 120VAC
Construction	316L
Area Classification	NEC Div/Zone 2
Ingress Protection	IP 66 (Nema 4X)
Operation Temp	- 20°C to +50°C
Storage Temp	- 20°C to +60°C

# **Internal Components List**

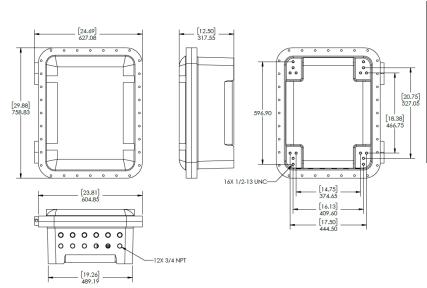
Quantity	Description	
2 each	C1D2 Hybrid Controller/Data manager	
1 each	Redundant C1D2 Power Supply	
1 each	Network/Comms Package	
1 each	C1D2 to C1D1 Barrier Package	
1 each	C1D2 I/O Package	





valve types. Listed are the standard specifications and features.

# **Drive Panel Specifications (PN 150558-02)**



Specification	Parameter
Input Voltage	460-480 VAC (others available)
Amps	10 amps nominal
Construction	Aluminum
Explosion Protection	Explosion Proof
Ingress Protection	IP 66
Operation Temp	- 20°C to +50°C

# **Internal Components List**

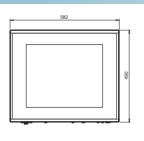
Quantity	Description	
1 each	Redundant Valve Drive Set	
1 each	Redundant Valve Contactor Set	
1 each	Network/Comms Package	

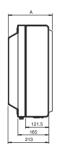




valve types. Listed are the standard specifications and features.

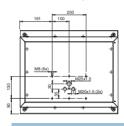
### HMI Specifications (PN 150612-02)

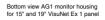


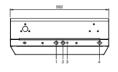


	A
Built-in panel 15"	229 mm
Built-in panel 19"	224 mm

Back view AG1 monitor housing for 15" and 19" VisuNet EX1 panel

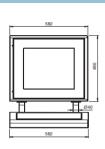


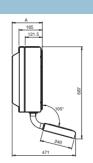




Mechanical specifications	
Degree of protection	IP66 (15" / 19")
	keyboard housing, optional: IP66 (on the back) , depending on mouse type at front - refer to datasheet EXTA2
Material	AG1: stainless steel 1.4301 (304) option available upon request : AS1: stainless steel 1.4571 (316Ti) / stainless steel 1.4404 (316L)
Mass	27 kg (15") 25 kg (19") 4 kg (keyboard housing, optional)
Dimensions	582 x 490 x 213 mm (without panel) 582 x 490 x 229 mm (15" panel) 582 x 490 x 224 mm (19" panel)
Construction type	front door hinge on the left

# **Optional**

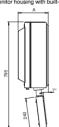




	A
Built-in panel 15"	229 mm
Built-in panel 19"	224 mm

#### Housing with Keyboard Option -L

Monitor housing with built-in 15"/19" panel & keyboard option L for VisuNet EX1



Mechanical specifications	
Degree of protection	IP66 (15" / 19")
	keyboard housing, optional: IP66 (on the back) ,
	depending on mouse type at front - refer to datasheet EXTA2
Material	AG1: stainless steel 1.4301 (304) option available upon request: AS1: stainless steel 1.4571 (316Ti) / stainless steel 1.4404 (316L)
Mass	27 kg (15") 25 kg (19") 4 kg (keyboard housing, optional)
Dimensions	582 x 490 x 213 mm (without panel) 582 x 490 x 229 mm (15" panel) 582 x 490 x 224 mm (19" panel)
Construction type	front door hinge on the left

# Engenuity inc.





valve types. Listed are the standard specifications and features.

#### Tablet Specifications (PN 150603-02)

ATEX / IECEx / UL913 ATEX/IECEX Certifications

EX II 1 GD

Ex ia op is IIC T4 Ga Ex ia op is IIIC T135°C Da

Class I, Zone 0, AEx ia op is IIC T4 Ga Class II, Zone 20, AEx ia IIIC T135°C Da Class I, Division 1, Groups A, B, C, D Class II, Division 1, Groups E, F, G

Class III, Division 1

Ruggedness MIL-STD 810G and IP67 certified

Vibration, drop, temperature &

humidity resistant Salt-fog resistant

Operating System Windows® 10 Professional

> Intel® Atom Processor x5-Z8350 Processor 1.44GHz, burst up to 1.92 GHz; 2MB Cache

4GB LPDDR31 Memory

eMMC 128GB<sup>†</sup> Storage

VGA Controller Intel HD Graphics

Display 8" IPS TFT LCD WXGA (1280x800) 600 NITs

LumiBond® 2.0 sunlight readable display

with multi-touch technology

Security TPM 2.0; NIST BIOS compliant;

Contactless HF RFID reader

13.56 MHz HF RFID (ISO 14443 - (A,B), MIFARE,

ISO 15693)

Optional Absolute™ DDS software

Communications Dual Band 802.11a/b/g/n, Bluetooth (v4.0);

Dedicated GPS;

Optional 4G LTE multi-carrier mobile

broadband with CA 2

Keyboard Six tablet buttons: Power, Windows,

Programmable x 2, Volume Up & Volume Down

Camera FHD (1920x1080) webcam x 1,

8MP auto focus camera

Power Charging Cradle

AC adapter (24W, 100-240VAC, 50 / 60Hz);

Li-Ion battery (7.4V, 4200mAH)

Dimensions and 9.4" x 6.1" x 1.14" (240 x 155 x 29mm)

> Weight 3.26lbs (1.48kg)<sup>††</sup>

Operating Temp: -5.8° F to 122° F / -21°C to 50°C; Temperature

Storage Temp: -40°F to 160°F / -40°C to 71°C;

Humidity: 95% RH, non-condensing

I/O Interfaces Docking port x 1

Warranty 3 Year bumper-to-bumper warranty standard<sup>‡</sup>



#### Specification subject to change without notice.

Computers configured with a 32-bit operating system can address up to 3GB of system memory. Only computers configured with a 64-bit operating system can address 4 GB or more of system

Data plan required. Cellular data is available in the US on Verizon Wireless and AT&T networks. LTE is available in select markets. Check with your carrier for details. 4G LTE configuration must be ordered at time of purchase.

\*For storage, 1GB = 1 billion bytes; actual formatted capacity less.
\*\*Weight varies by configuration and manufacturing process.

‡ 3 year bumper-to-bumper limited warranty standard. For warranty terms and conditions visit www.getac.com

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