



Eshel Terminal

# UL/FM GATE VALVES

(Version 12)

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## **UL/FM GATE VALVES SPECIFICATION:**

This document covers the technical requirements for supply and delivery of UL/FM gate valves for water and premix application.

Valve shall be installing at Eshel terminal.

### **SITE CONDITIONS:**

The valves installing shall be outdoor.

Site altitude is about 200 m' above sea level.

Ambient temperature varies between 0°C- 48°C.

Relative humidity varies between 45% - 85%.

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Rainfall around 350 mm' / year

### **Technical request:**

#### **Standards:**

The valves shall be UL Listed and FM approved.

#### **Technical Requirements:**

The valves shall be gate types, OS&Y type, Bolted bonnet, Bi-directional flow.

The ductile iron valves parts shall be fusion bonded epoxy coating inside and outside (at least 250 micron).

#### **Materials Ductile Iron:**

Body / bonnet: Cast Iron.

Yoke: Cast Iron.

Stem: Stainless Steel.

#### **FLANGE (CLASS RANGE):**

The valves shall have flat face flanged ends.

End connections shall be drilling according to [475150#](#) flanges.

[Max Working pressure: 250 psi \(at least\)](#)

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## **ELECTRICAL OCTUATOR**

Part of the valve may be needed to be supply with electrical actuators.  
At that case the valve itself shall be UL/FM approve. The vendor shall supply and install electrical actuator. The valve shall be supply as a complete unit.

The actuator shall be manufacture by ROTORK latest model,

Wiring to I/O device

The actuators shall be explosion proof types, 400/3/50 v/phase/Hz.

Actuator enclosure: IP-68. The actuator shall be suitable for valve operation under full differential pressure with 30% over sizing of torque.

Opening time: 1" per 10 second.

Actuators type: multi-turn fitted with integral pushbutton station and indicating lights panel and ergonomically sized side-mounted Hand-Wheel.

## **GENERAL TERMS:**

The vendor shall supply the following information:

- Valve drawings.
- Valve materials list.
- UL/FM approvals.
- Maintenance instruction.
- Accessories drawings.
- List of recommended spare parts with pricing.
- Delivery date.
- Recommended list of customers including contact address.

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**QUANTITY TABLE:**

Item	Size	Quant.	Description
<u>1</u>	<u>Acc to BOC</u>		Gate valve OS&Y, UL/FM, <del>175150#</del> , <del>gear operated</del> .
			<del>Ditto hand wheel.</del>
			Ditto
			Ditto
			Ditto
			Ditto
			Ditto
Item	Size	Quant.	Description
	<u>Acc to BOC</u>		Gate valve OS&Y, UL/FM, <del>175electrical</del> - <u>150# electrical</u> actuated.
			Ditto