

# **Europe Asia Pipeline Company LTD.**

## **SPECIFICATION No. 24011225 FOR GATE VALVE 8” FOR PIPELINE SERVICE**

31.10.2024

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1. **GENERAL**

This specification covers the manufacture assembly, inspection, testing and supply of gate valve for EAPC Ltd.

The valve is for installation on 8" ASHKELON– HAIFA pipeline, site condition specified in paragraph 3.

2. **SCOPE OF SUPPLY**

The scope of supply shall include the following Two (2) 8" Gate valves.

3. **DESIGN AND MANUFACTURING REQUIREMENTS**

- 3.1 Type: Through conduit parallel expanding Gate Valve.
- 3.2 Size: 8" Full Bore.
- 3.3 Pressure Class: 600.
- 3.4 End: RF Flanged according to ASME 16.5.
- 3.5 Dimension according to API 6D.
- 3.6 Bevel Gear operated.
- 3.7 The valve shall have outside screw and yoke with rising stem.
- 3.8 The valve shall be equipped with built in pressure thermal relief devices for relief of oversize pressure from closed body to side (upstream).
- 3.9 The valve shall be equipped with vent and drain valves, and grease fittings.
- 3.10 The valve shall be with indicating S.S. 316 rod.
- 3.11 The valve shall be zero leakage.
- 3.12 The valve shall be fireproof.
- 3.13 The parallel expanding gate design should provide a tight mechanical seal and shall be unaffected by pressure variations.
- 3.14 The gate valve shall be designed with positive stops that need no adjustment.
- 3.15 The valve design shall provide the option for repair the valve while in line (pressure removed and valve drained).
- 3.16 Above ground installation.
- 3.17 Site Conditions:
  - 3.17.1 Eastern Mediterranean inland terminals,
  - 3.17.2 Temperature: 5 – 55 °C

3.17.3 Humidity: up to 90%

3.18 Process Conditions:

3.18.1 Fluid : Sour Crude Oil.

3.18.2 Temperature : +2°C to 55°C

3.18.3 Special Conditions : No

3.19 Standards of Compliance:

3.19.1 Basic design: API 6D

3.19.2 Test & inspection: API 6D

3.19.3 Fire Safe Conforms: API 6FA

4. **TESTING**

4.1 Test certificates shall be transmitted to EAPC.

4.2 The testing shall be in accordance with API 6D standard.

4.3 Fire tested to API-6FA.

5 **PAINTING**

5.1 Valve and actuator shall be coated in accordance with manufacturer standard and to meet site conditions as specified in para. 3.

5.2 Top layer color: White RAL9010.

5.3 Vendor shall specify proposed coating in his quotation.

6. **ASSEMBLY OF COMPONENTS**

All units shall be supplied completely assembled – ready for installation.

7. **TAGGING**

7.1 Each item shall be tagged with a S.S. 316 nameplate containing at least the following data:

7.1.1 Name of manufacturer.

7.1.2 Size, rating and max. operating temperature and pressure.

7.1.3 Manufacturer type & serial number.

7.1.4 Bore Diameter.

7.1.5 Material type of: Body, Seat, Gates, Stem, Packing.

7.1.6 Standard (6D).

8. **MECHANICAL GUARANTEE**

Vendor will guarantee that the equipment furnished is free from faults in design, workmanship and materials. Should any defect in design, materials, workmanship or operating characteristics develop during the first year of operation (but not over twenty four (24) months from the date of shipment), the Vendor will make all necessary or desirable alternations, repairs and replacements of said defective equipment, free of charge and shall also pay transportation involved of the above mentioned to and from the plant. If the defect or functional failure cannot be corrected, the Vendor agrees to replace promptly, free of charge, the faulty equipment.

9. **DOCUMENTATION**

The following documents are to be transmitted in PDF file in English:

With bid: General arrangement drawings of valve with overall dimensions, Cross section showing construction details, Material Specification.

With Order: Drawings and Installation, Operating and Maintenance Instruction, including full parts list explaining replacement of spares, for valve.

Eur1 certificate or US Certificate of Origin will be required.

10. **BILL OF QUANTITIES**

EAPC Pipeline - Gate valves design according to API 6D						
Item	Type	Size/Class/Ends	Operation	Qty	Unit Price	Total Price
1	Through conduit parallel expanding	8" ANSI 600 Flanged	Bevel Gear Operated	2		