

**SPECIFICATION FOR
SWING CHECK VALVE 16”
FOR PIPELINE SERVICE**

23010082

TABLE OF CONTENTS

1. GENERAL
2. SCOPE OF SUPPLY
3. DESIGN REQUIREMENTS
4. TESTING
5. PAINTING
6. ASSEMBLY OF COMPONENTS
7. TAGGING
8. MECHANICAL GUARANTEE
9. DOCUMENTATION
10. BILL OF QUANTITIES

1. GENERAL

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

The check valve is for installation on 16" ASHKELON– HIFA pipeline, site condition specified in paragraph 3.

2. SCOPE OF SUPPLY

The scope of supply shall include the following:

2.1 One (1) Check valve.

2.2 The check valve shall be zero leakage, design as fire proof, full bore check valve ANSI 600 RF ends.

2.2.1 Full opening swing check valve.

2.2.2 Clapper lock open position – st.st 316 shaft mechanism.

2.3 The quotation shall include the list of recommended spare parts a special tools with brake down prices.

3. DESIGN REQUIREMENTS

3.1 General

The valve should be swing check valve.

The full-bore design shall provide the same pressure drop as an equivalent length of pipe and **shall allow passage of all types of scrapers (PIGS)**. The check valve design shall provide the option for repair the valve while in line (pressure removed and valve drained).

3.2 Pipeline Data

3.2.1 Diameter: 16"

3.2.2 Standard: API 5L-X52

3.2.3 W.T: 0.406"

3.3 Site Conditions

3.3.1 Eastern Mediterranean inland terminals,

3.3.2 Temperature: 5 – 55 °C

3.3.3 Humidity: up to 90%

3.4 Process Conditions

Fluid : Sour Crude Oil
Temperature : +2°C to 55°C
Special Conditions : No
Installation : Underground Service

3.5 **Standards of Compliance**

- 3.5.1 Basic design: API 6D
- 3.5.2 Flanged end as per ASA600 ANSI B16.5
- 3.5.3 Test & Inspection: API 6D
- 3.5.4 Fire safe conforms: API 6FA

3.6 **Materials of Construction**

- 3.6.1 According to API 6D

4. **TESTING**

Test certificates shall be transmitted to purchaser in 3 copies.

Vendor shall furnish details of the extent of shop assembly and testing procedures he intends to follow.

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

5. **PAINTING**

5.1 The check valve shall be coated in accordance with manufacturer standard and to meet site conditions as specified in para. 3.

5.2 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 The valve shall be tagged with number specified by purchaser and fitted 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
- 7.1.3 Manufacturer serial number

7.1.4 Purchaser tag number

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 3 copies in English:

With bid: General arrangement drawings of check valve with overall dimensions

Cross section showing construction details

Material Specification

Itemized price list of recommended spare parts

With Order: Installation, Operating and Maintenance Instruction.

Eur1 certificate or US Certificate of Origin will be required.

10. BILL OF QUANTITIES

EAPC Pipeline – Swing Check Valve design according to API 6D					
Item	Type	Size/Class/ Ends	Qty	Unit Price	Total Price
1	SWING CHECK VALVE	16" ANSI 600 F.E	1		