

17 אוגוסט, 2017

סימוכין: 182224

לכבוד

משתתפי מכרז 063-17

הנדון: מפרט טכני ודחיית הגשת מכרז 063-17- מגופים לדלק ("המכרז")

1. מצ"ב מפרט טכני למגופי plug, אשר נשמט בטעות ממסמכי המכרז (V6-105977#).
2. כמו כן, הרינו להביא לידיעתכם כי המועד האחרון שנועד להגשת ההצעות נדחה לתאריך 5.9.17 (במקום 22.8.17).

בברכה,



טלמור סלע

מחלקת רכש והתקשרויות

Plug valve specification (TWIN SEAL) – Pipeline service

1. VALVE MODELS -

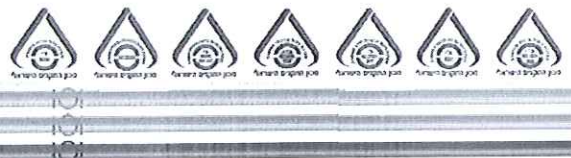
- **FRANKLIN DURASEL - MODEL D711/D741**
- **GENERAL TWIN SEAL - MODEL 800/8800**
- Other models are allowed provided they are equivalent to the models in this specification and meet the minimum threshold condition of the tender.
- In any case the manufacture of the valve shall be only OECD country (including manufacturing processing, assembly & testing).

2. General Features -

- Size – 8"-24" / CLASS 150-600 / R.F - acc to bill of quantity
- Type – Plug valve twin seal, DB&B
- Design Standard – API 6D , API Monogram required.
- End connection –Flange to ASME B 16.5 #150 - #600 R.F - acc to bill of quantity
 - Testing – in acc to API 6D (all tests shall be done at the manufacturer factory with actuator assembled and calibrated on the valve including functional tests)
- Port – Reduce bore (minimum opening 70%)
- Valve operation shall be bi-directional
- Operation – Rotork + Gear or Hand operated + Gear - acc to bill of quantity
- Valve shall be equipped With Lift lugs

3. Documentation –

- hydro test report
- MTRs (include trim materials)
- Certificate of compliance
- IOM
- List of Recommended spare part (Grease type)
- Operation data (open/close time& torque required)
- Valve drawings – for approval before manufacture & As-Made after manufacture
- All documents are to be in English, on CD and in three hard copies





4. **Service –**

- Liquid - Different types of distillate fuel : gas oil, kerosene, gasoline, diesel oil acc, Temp. max. 60°C

5. **DESIGN STANDARDS :**

The valves shall be manufactured, tested, marked and delivered in accordance with API std 6D – Pipeline valves, last edition. **API Monogram required.**

6. **MATERIALS :**

- Body: Cast steel ASTM A216 Gr. WCB.
- Plug & seats : ASTM A216 Gr. WCB + ENP
- Seals: Viton, bonded to slips
- Packing : Graphite
- ID plate: stainless steel.SS 316
- Other materials for body & trim are acceptable if they meet service condition, the standard and with approval of the purchaser.

7. **OPERATION:**

- Valves shall be equipped with "ROTORK" electric actuator latest model, series IQ 3, FM explosion proof IP - 68, included WD100000/2000 for connection to "PAKSCAN" including board, suitable for valve operation under max differential pressure with 25% over sizing of torque, opening/closure time of valve 60 sec min, 90 sec max ,400V, 50Hz. Valve will be supplied with rotork installed and calibrated at the **manufacturer factory .**

8. **SITE CONDITION:**

Eastern Mediterranean inland terminal, close to sea environment temperature- 5-55 °C Humidity- 10%-100% .

9. **ASSEMBLY OF COMPONENTS**

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

Installation will be aboveground or at a pit

10. **INDICATION ROD :**

Valve shall be equipped with indication rode made of stainless Steel 316.



Valve shall be equipped With Lift lugs

11. PAINTING:

Each valve shall be epoxy painted on all outside carbon steel parts. Painting minimum spec –

- Surface preparation – sa 2.5
 - Primer - Zinc rich epoxy 70 micron thick SSPC. Primer will contain over 80% zinc by weight of the dry film.
 - Intermediate - tolerant epoxy mastic surface thick at 150 microns minimum, two layers as needed.
 - Upper - polyurethane oval white 80 micron thick single layer or two separate layers of 40 microns each Ready Made. Hue of upper layers will be white matte, reflective level of about 84%
 - Total dry thickness – at least 300 microns
- Manufacture shall provide his detailed painting procedures to pei (with proposal)

12. AUTOMATIC THERMAL RELIEF SYSTEM:

Valve must be equipped with an external automatic body relief system (NPT connection) including two NPT ball/needle valves on both sides and union NPT, to relief excess body pressure caused by thermal expansion, to upstream end valve. The system will include Pressure gauging of the body pressure (NPT connection). The connections and the thermal relief system shall be tested in accordance to API 6D paragraph 10.3, and will be installed on valve prior to shipment.

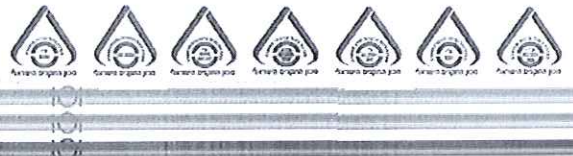
13. DRAIN PORT:

Manual body draining with 1/2" ball valve & plug, NPT

14. VENT PORT:

At the body top level with 1/2" ball valve & plug, NPT

15. TESTING – in accordance with API 6D and API 598 (all units shall be supplied completely assembled – ready for installation).





16. **MARKING :**

All valves shall be marked according API 6D

Name plate shall include as minimum the following data –

- Manufacturer name.
- API 6D monogram and number.
- Pressure class
- Manufacturer country.
- Equipment model.
- Serial number.
- Pressure/temperature rating :
 - a) Maximum operating pressure at maximum operating temperature
 - b) Maximum operating pressure at minimum operating temperature
- Nominal valve size
- Date of manufacture (month and year)

The name plate shall be made of stainless steel (1.5 mm' thickness)

