

# 184230

אגף הנדסה

## Gate valve specification – API 600

### General Features -

- Size – 4"-24" / CLASS 150-600 / R.F (acc to bill of quantity.)
- Type – Gate valve (API 600)
- Design Standard – API 600, API Certificate & Monogram required.
- End connection – Flange to ASME B 16.5 #150 - #600 R.f - acc to bill of quantity
- Testing – in acc to API 598, including functional test (all tests shall be done at the manufacturer factory with actuator assembled and calibrated on the valve)
- Operation – Hand operated or Rotork + Gear – acc to bill quantity
- With Lift lugs
- Documentation –
  - hydro test report
  - MTRs (include trim materials)
  - Certificate of compliance
  - Material certification ER 10204 – 3.1
  - IOM
  - Actuator data sheet
  - Operation data (open/close time& torque required)
  - Mill test certification
  - Valve drawings – for approval before manufacture & As-Made after manufacture
- Service –
  - **Liquid** - Different types of distillate fuel : crude ,gas oil, kerosene, gasoline, diesel oil acc, Temp. max. 60°C
  - **Installation** – valve will be installed next to sea (environment with high corrosion)
- Material

Body	: ASME SA216 GR. WCC
Bonnet	: ASME SA516 GR.70
Gate and segment	: ASME SA216 GR. WCC/003 THICK ENP
Stem	: AISI 4140/ENP
Stem protector	: ASME SA53



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Indicator rod	: 316 Stainless steel
Stud	: ASME SA193 GR. B7M
Yoke	: ASME SA516 GR. 70/SA 106 GR.B

- **TRIM –**

- API 600 TRIM Suitable for service conditions **(to be advice by manufacturer)**
- Gate/seats/stem plating coating – 3 MIL ENP

- **Name plate –**

SS 316 (2 mm thickness) – Details acc to API 6D

- **Valve Painting –**

- ❖ 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

- **OPERATION –**

- If Rotork is required according to bill of quantity then 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, **including cable glands** 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 gear & rotork installed and calibrated at the **valve manufacturer factory**.

- **Remark –**

**In any case the manufacture of the valve shall be only OECD country (including manufacturing processing, assembly & testing).**

