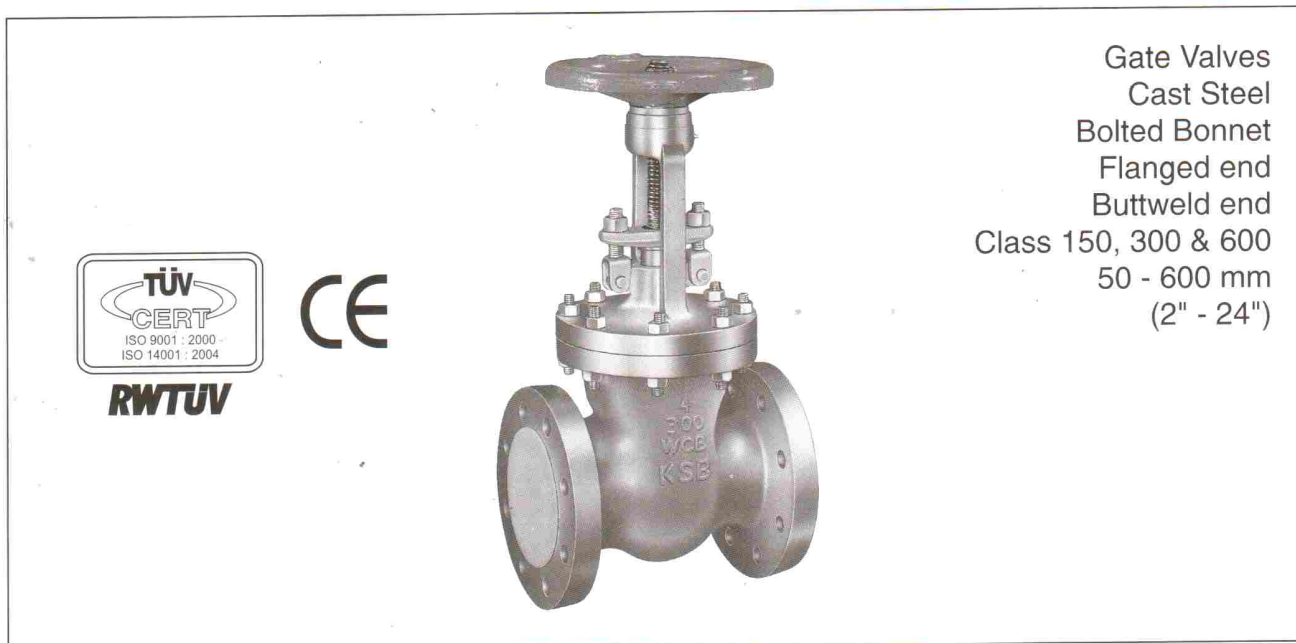


Cast Steel Gate Valve



Gate Valves
Cast Steel
Bolted Bonnet
Flanged end
Buttweld end
Class 150, 300 & 600
50 - 600 mm
(2" - 24")

Applications

- Refineries, Power stations, Process & General Industry
- For water, steam, gas, oil and other non-aggressive media
- Further applications on request

Operating data

- Pressure range up to 103.4 bar (1500 psi)
- Temperature range up to +593°C/1100°F
- Minimum temperature is 0°C (less than 0°C on request)
- Pressure-temperature ratings as per ASME B 16.34 Standard class

Materials

ANSI Standard Class (as per ASME B 16.34)

- #150/300/600 - A 216 WCB from 0°C to 425°C
- #600 - A 217 WC6 from 0°C to 593°C
- #150/300 - A 351 CF8 from 0°C to 537°C
- ASME Special class on request.

Design

- As per API 600 / ISO 10434
- Pressure, Temperature rating as per ASME B 16.34
- Stellite hard-faced Seats
- Graphite gaskets and graphite packings with Braided wiping rings

Variants on Request

- Bypass execution
- Actuator execution
- Trim 8, Trim 5 for #150 / 300 valves
- Trim 5 for #600 WCB valves
- Trim 8 for #600 WC6 valves
- Other material of construction on request
- Position indicator
- Locking arrangement
- Other execution

Remarks

Forged Valves leaflet no.	: 7240.2/4-10
Pressure Seal Gate Valve leaflet no.	: 7241.2/6-10
Pressure Seal Globe Valve leaflet no.	: 7242.2/5-10
Pressure Seal Check Valve leaflet no.	: 7243.2/5-10
Cast Steel Globe Valve leaflet no.	: 7245.2/4-10
Cast Steel Check Valve leaflet no.	: 7246.2/4-10
Operating instructions no.	: 0500.80/02-18 G3

On all enquiries/orders please specify

- | | |
|--------------------------------|--------------------------------------|
| 1. Type | 8. Material of construction |
| 2. ANSI Pressure class | 9. Flow Medium |
| 3. Size | 10. Flow rate Min. / Max. |
| 4. Design pressure/temperature | 11. Type of end connection |
| 5. Operating pressure | 12. Pipe schedule ID / OD |
| 6. Operating temperature | 13. Variants |
| 7. Differential pressure | 14. Leaflet no. |
| | 15. Valve data sheet (if applicable) |

When ordering spares, indicate valve serial number.

Product features to our customer benefit

- Valves meet API 600 / ISO 10434 design requirements
- Body full bore to API 600 / ISO 10434 ensures streamlined flow hence no pressure drop.
- Body guided wedge ensures positive seating and eliminates side thrust
- Stem wedge connection meets API 600 pull test requirements.
- Harder seats (ST6 HF) minimises on line erosion (KSB recommends harder seats)
- Differential hardness between seat & wedge maintained to eliminate galling.

Flow Seal

- Stellited body seats (KSB recommends harder seats)
- Seat rings - seal welded to body
- Lapped seat and wedge faces for leak tightness
- Streamlined flow path hence no pressure drop

Wedge Design

- Flexible wedge ensures perfect seating
- Wedging action ensures leak tightness
- Leak tightness at low and high differential pressure

'T' head stem wedge connection

- Low, centre stem to wedge contact reduces the operating torque

Body seal

Bolted Bonnet

- Encapsulated Gasket with Controlled Compression ensures leak proof joint and prevents unwinding of SS strips
- #150 valve with oval/rectangular bonnet has flat gasket

Gland Seal

- Die moulded graphite rings ensures effective stem sealing
- Top & bottom rings are braided graphite offer smooth wiping action & prevents Graphite depletion
- Burnished stem and smooth stuffing box surfaces improve gland sealing life
- Two piece self aligning gland arrangement
- Hardened back seat for maximum service life



Makers Name & Address
KSB PUMPS LIMITED
 151, METTUPALAYAM ROAD,
 N.S.N. PALAYAM POST,
 COIMBATORE - 641 031. (INDIA)

FORM III - C
 Certificate of Manufacture and Test
 of Boiler Mountings and fittings
 (Regulation 269)

FORM III C No. **2616083**
 DATE : **03/10/2006**

Name of Part
4" CLASS 150
CAST GATE VALVE - HAND WHEEL
FLANGED ENDS - C.S.

Intended working Pressure in Kg/cm ²	Hydraulic test Pressure in Kg/cm ²	Main Dimensions As per Approved Drg.	ASSEMBLY DRG No.
20.0	30.0		CA4 0515 R0

Max. Parameters for which the fittings can be used

Intended working Temp of Media in °F	100	200	400	650	750	850	900	1000	1100
°C	38	93	204	343	399	454	482	537	593
Permissible Max. Working Pressure in Kg/cm ²	20.0	18.3	14.1	8.8	6.7	4.6			

Heat No. / Code	% CHEMICAL COMPOSITION								PHYSICAL PROPERTIES		
	C	Mn.	Si.	P	S	Cr	Mo	Ni	UTS Kg/mm ²	%E GL:50 mm	Trans Bend Test at 120°/ 180°
F1482	0.180	1.000	0.40	0.025	0.021	0.240	0.067	0.12	52.35	31.88	OK

VALVE SERIAL NO. **6510379**

BODY MATERIAL **A 216-WCB** Total No. of Valves **ONE**

Certified that the particulars entered herein by us are correct. The part has been designed and constructed to comply with the Indian Boiler Regulations for a working pressure of **20.0** Kg/cm² and satisfactorily withstood a Hydraulic test using water ~~XXXXXXXX~~ or with any other suitable liquid to a pressure of **30.0** Kg/cm² on the **03RD** day of **October** **2006** in the presence of our responsible representative whose signature is appended hereunder.

R. KUMAR
 MANAGER - QA
 KSB PUMPS LTD
 COIMBATORE-641 031
 Maker's Representative
 (Name and Signature)

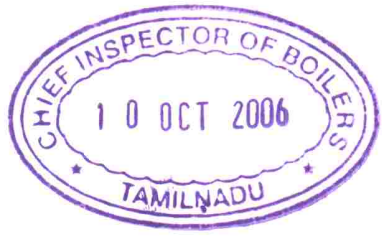
K. SRIKANTH
 MANAGER - PRODUCTION
 KSB PUMPS LTD
 COIMBATORE-641 031
 Maker

IDENTIFICATION MARK : The valves have been stamped on the ~~XXXX~~ cover flange with the Inspecting ~~XXXXXXXX~~ /Officer's stamp thus :



We have satisfied ourselves that the valve / fitting has been constructed and tested in accordance with the requirements of the INDIAN BOILER REGULATIONS, 1950. We further certify that the particulars entered herein are correct.

INSPECTING OFFICER
INSPECTOR OF BOILERS
ERODE CIRCLE,ERODE.
 Name and signature of the Inspecting Officer who witnessed the tests.



INSPECTING AUTHORITY
Chief Inspector of Boilers (I/C)
Tamilnadu
 Name and signature of the Inspecting Authority

Place : **LB./ ERODE**
 Date : **NO: 1440 2006-2007**

Note : In case of valve chest made and tested by well-known Foundries or Forges recognised by the Central Boilers Board in the manner as laid down in regulation 4A to 4H, listed in Appendix K, particulars regarding the material as certified by them, in any form, shall be noted in the appropriate columns or paragraphs in the certificates and in case of certificates from well-known Foundries or Forges is produced, such certificates may be accepted in lieu of the Certificate from inspection authority in so far as it relates to the testing of material specified in the Form.

"Strike out which is not applicable"

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