



Class 600 鑄鋼/鑄不銹鋼伸縮囊密封型閘門閥  
 Class 600 Cast Steel/Cast Stainless Steel  
 Bellows Sealed Gate valve

**FIG FI49 Series**



**Selection of possible applications:**

- Industry
- Powerstations
- Flue gas purification plant
- Processing technology
- Gas supply
- Vapour facilities
- Thermal oil applications
- Recycling facilities
  
- Vacuum facilities
- Ammonia
- Hot water
- Heating technology
- District heating
- Cooling and freezing systems
- General plant manufacturing
- Steam systems

- other applications on request -

**Design Description:**

- Bolted bonnet
- Outside screw and yoke
- Fixible wedge, Fully Guided
- Renewable seat ring
- Rising stem and non-rising handwheel
- Metal back seat
- Lubricating Nipple as Standard
- Secondary Sealing : gland packing
- Renewable bellows sealed bonnet assembly
- Different types of connection available.  
(Butt Weld, and Flange Ends)
- Stem sealed with bellows tested for 3,000 full open/closed operations at 20°C
- Design and Manufacturing acc. to API 600
- Shell wall thickness acc. ASME B16.34
- Butt Weld Ends acc. to ASME B16.25
- Flanges Ends acc. to ASME B16.5
- Flanges face to face dimensions acc. to ASME B16.10
- Test pressure acc. to API 598
- Maintenance free
- Free from abestos,PCB and CFC

**Pressure/Temperature Ratings:**

Class 600	BODY Material	Temp.	Working Pressure	SHELL TEST (water)	SEAT TEST (water)	SEAT TEST (air)
	A351 Gr.CF8	100°F 38°C	1440 psig 99.3 bar	2175 psig 150 bar	1585 psig 109 bar	80 psig 5.5 bar
1000°F 538°C		710 psig 48.9 bar				
A351 Gr.CF8M	100°F 38°C	1440 psig 99.3 bar	2175 psig 150 bar	1585 psig 109 bar	80 psig 5.5 bar	
	1000°F 538°C	725 psig 50 bar				
A 216 Gr.WCB	100°F 38°C	1480 psig 102.1 bar	2225 psig 153 bar	1630 psig 112 bar	80 psig 5.5 bar	
	800°F 425°C	825 psig 57.5 bar				

**Valve Parts List:**

Item	Part name	Material		
		A216-WCB	A351-CF8	A351-CF8M
1	Body	A216-WCB	A351-CF8	A351-CF8M
2	Seat ring	13%Cr	S.S.304	S.S.316
3	Wedge	A216-WCB	A351-CF8	A351-CF8M
4	Stem	13%Cr	S.S.304	S.S.316
5	Gasket	Grafoil+304Sheet	Grafoil+304Sheet	Grafoil+316Sheet
6	Bonnet	A216-WCB	A351-CF8	A351-CF8M
7	Bellows	S.S.304	S.S.304	S.S.316
8	Packing	Graphite	Graphite	Graphite
9	Gland	13%Cr	A351Gr.CF8	A351Gr.CF8
10	Gland Flange	A216-WCB	A351-CF8	A351-CF8
11	Eye Bolts	A307-B	A193-B8	A193-B8M
12	Eye Bolt Nut	A194-2H	A193-B8	A194-8M
13	Eye Bolt Pin	A36	A276-304	A276-304
14	Bonnet bolt	A193-B7	A193-B8	A194-8M
15	Bonnet nut	A194-2H	A194-8	A194-8M
16	Stem nut	A439-D2	A439-D2	A439-D2
17	Handwheel	Ductile Iron	Ductile Iron	Ductile Iron
18	Handwheel nut	Ductile Iron	Ductile Iron	Ductile Iron
19	Upper Bellows Joint	13%Cr	S.S.304	S.S.316
20	Lower Bellows Joint	13%Cr	S.S.304	S.S.316
21	Lubricating Nipple	S.S.304	S.S.304	S.S.304

\*\*Seating face with stellite is on request.

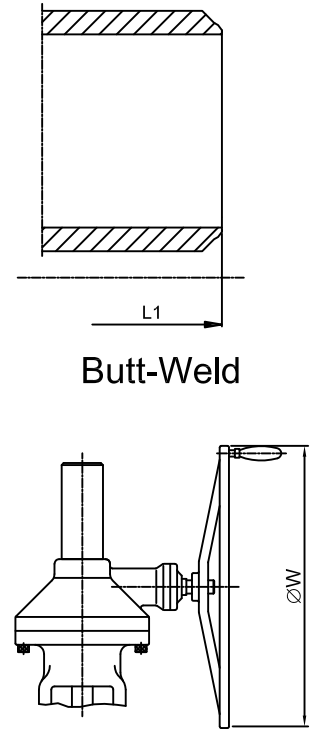
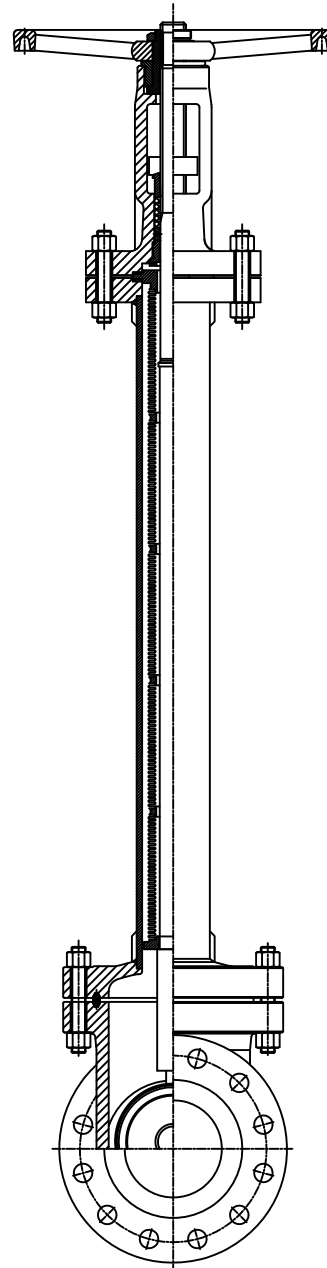
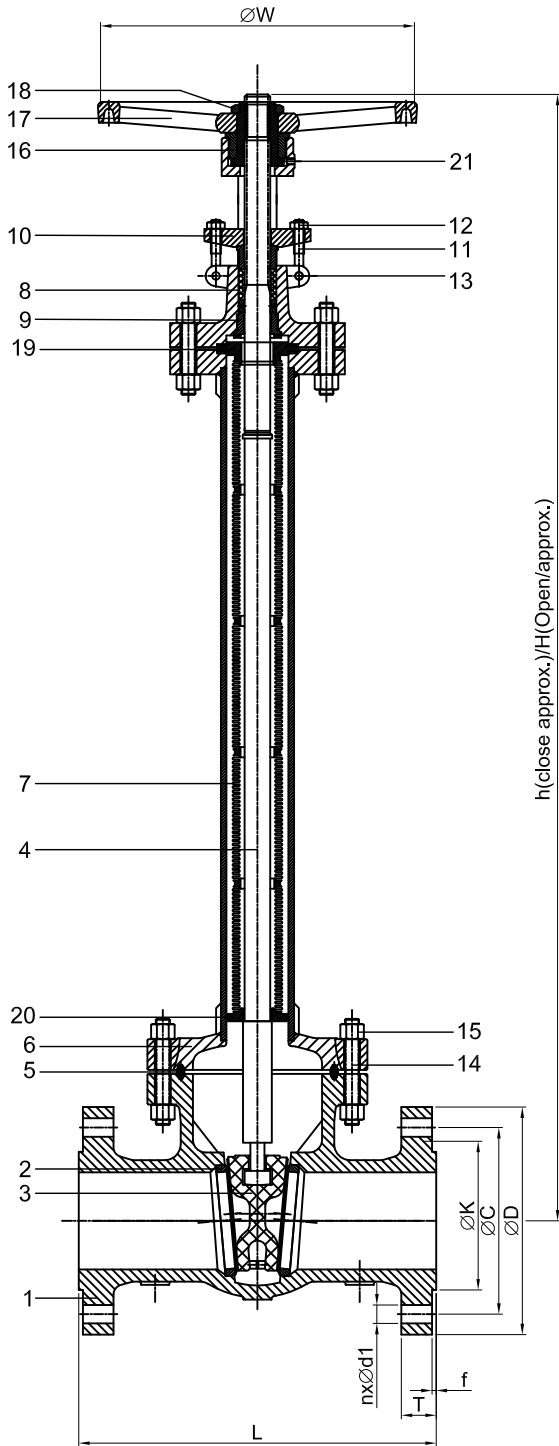


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FIG FI49 Series



Gear Operator

Class 150-10" and larger  
Class 300- 8" and larger

Dimensions Table:

Unit : mm

SIZE		L & L1	ØW	h	H	CLASS 600					
DN	NPS					ØD	ØC	ØK	nxØd1	T	f
50	2"	292	180	610	671	165.1	127	92.1	8x22.22	25.4	6.4
65	2-1/2"	330	250	777	872	190.5	149	104.65	8x22.22	28.6	6.4
80	3"	356	300	777	870	209.6	168	127	8x22.22	31.8	6.4
100	4"	432	300	1350	1511	273.1	215.9	157.22	8x25	38.1	6.4
150	6"	559	400	1421	1595	355.6	292.1	215.9	12x29	47.7	6.4
200	8"	660	600	1435	1671	419.1	349.2	270	12x32	55.6	6.4
250	10"	787	600	1800	2080	508	431.8	324	16x35	63.5	6.4
300	12"	838	600	2100	2410	558.8	489	381	20x35	66.7	6.4
350	14"	889	600	2350	2700	603.3	527.1	412.8	20x38	69.9	6.4
400	16"	991	600	2620	3030	685.8	603.3	469.9	20x41	76.2	6.4