



Class 150/300/600 鍛造伸縮囊密封型閘門閥
Class 150/300/600 Forged Bellows Sealed Gate valve

FIG F49A Series



Pressure/Temperature Ratings:

	BODY Material	Temp.	Working Pressure	SHELL TEST (water)	SEAT TEST (water)	SEAT TEST (air)
Class 150	A 182 Gr.F304/ Gr.F316	100°F 38°C	275 psig 19 bar	425 psig 29 bar	305 psig 21 bar	80 psig 5.5 bar
		1000°F 538°C	20 psig 1.4 bar			
	A 105	100°F 38°C	285 psig 19.6 bar	450 psig 31 bar	315 psig 22 bar	80 psig 5.5 bar
		800°F 425°C	80 psig 5.5 bar			
Class 300	A 182 Gr.F304	100°F 38°C	720 psig 49.6 bar	1100 psig 77 bar	795 psig 55 bar	80 psig 5.5 bar
		1000°F 538°C	355 psig 24.4 bar			
	A 182 Gr.F316	100°F 38°C	720 psig 49.6 bar	1100 psig 77 bar	795 psig 55 bar	80 psig 5.5 bar
		1000°F 538°C	365 psig 25.2 bar			
	A 105	100°F 38°C	740 psig 51.1 bar	1125 psig 78 bar	815 psig 56 bar	80 psig 5.5 bar
		800°F 425°C	410 psig 28.8 bar			
Class 600	A 182 Gr.F304	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			
	A 182 Gr.F316	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 105	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			

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:

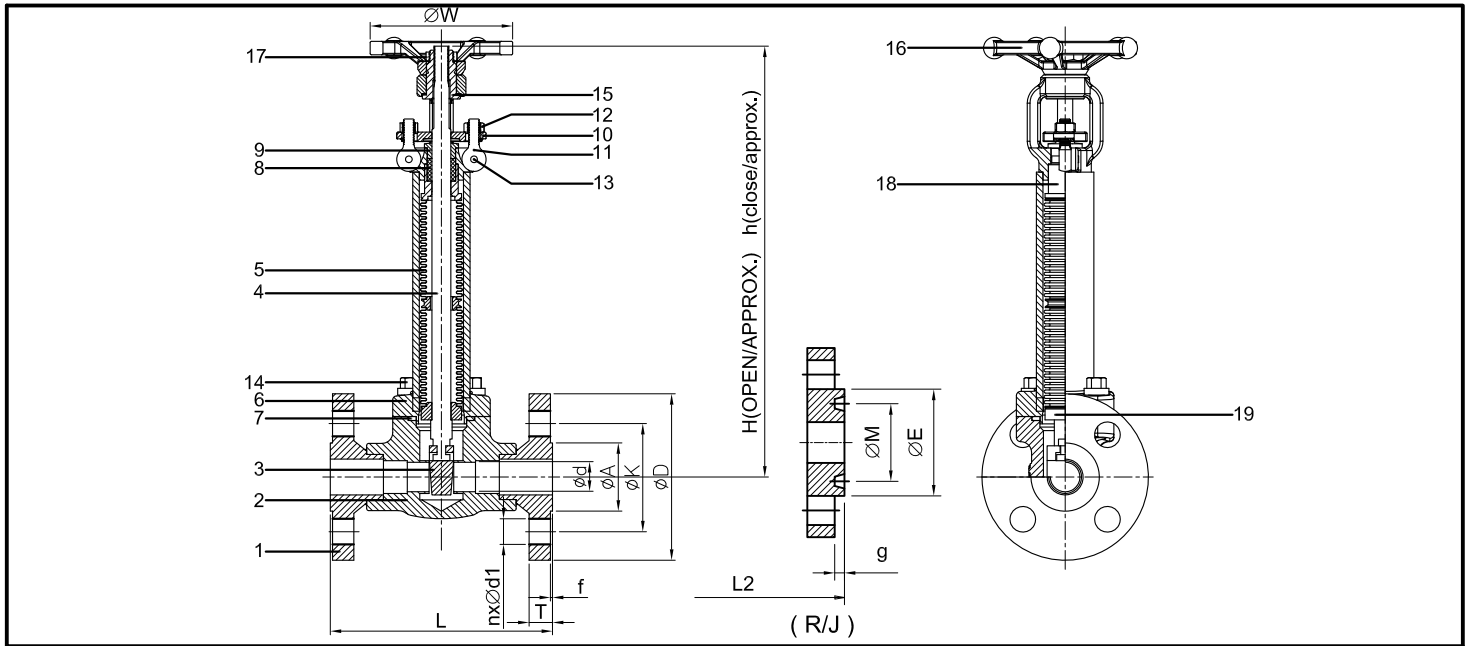
- Bolted bonnet
- Outside screw and yoke
- Rising stem and non-rising handwheel
- Renewable seat ring
- Wedge disc
- Metal back seat
- Lubricating Nipple as Standard
- Secondary Sealing : gland packing
- Different types of connection available. (Screwed, Socket Weld, and Flange Ends)
- Stem sealed with bellows tested for 3,000 full open/closed operations at 20°C
- Design and Manufacturing acc. to API 602
- Shell wall thickness acc. ASME B16.34
- 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



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FIG F49A Series



Valve Parts List:

Item	Part name	Material			Remark
		A105	A182-F304	A182-F316	
1	Body	A105	A182-F304	A182-F316	
2	Seat Ring	13%Cr	S.S.304	S.S.316	HF on request
3	Wedge	13%Cr	A182-F304	A182-F316	HF on request
4	Stem	13%Cr	S.S.304	S.S.316	
5	Bellows	S.S.304	S.S.304	S.S.316	
6	Bonnet	A105	A182-F304	A182-F304	
7	Gasket	S.S.304 Sprrial wound	S.S.304 Sprrial wound	S.S.316 Sprrial wound	
8	Gland Packing	Graphite	Graphite	Graphite	
9	Gland	13%Cr	S.S.304	S.S.316	
10	Gland Flange	A105	A182-F304	A182-F316	
11	Eye Bolt	A193-B7	A193-B8	A193-B8	
12	Eye Bolt Nut	A194-2H	A194-8	A194-8	
13	Eye Bolt Pin	13%Cr	13%Cr	13%Cr	
14	Bonnet Bolt	A193-B7	A193-B8	A193-B8	
15	Stem Nut	A276-410	A276-410	A276-410	
16	Handwheel	Ductile Iron	Ductile Iron	Ductile Iron	
17	Handwheel Nut	13%Cr	13%Cr	13%Cr	
18	Upper Bellows Joint	13%Cr	S.S.304	S.S.316	
19	Lower Bellows Joint	13%Cr	S.S.304	S.S.316	

** Other materials are available upon request.

Dimensions Table: Class 150 : FN49A

Unit : mm

SIZE		ANSI B16.5 Class 150 LB RF										RNG JOINT FACE			
DN	NPS	L	H	h	ØW	ØD	ØK	ØA	nxØd1	T	f	ØM	ØE	g	L2
15	1/2"	108	268	251	100	89	60.5	35	4x16	11.2	1.6				
20	3/4"	117	268	251	100	99	69.9	43	4x16	12.7	1.6				
25	1"	127	337	314	125	108	79.3	51	4x16	14.3	1.6	47.62	63.5	6.4	140
40	1-1/2"	165	489	459	180	127	98.6	73	4x16	17.6	1.6	65.07	82.5	6.4	178
50	2"	178	574	501	240	165	120.7	92	4x20	19.1	1.6	82.55	101.5	6.4	191

Dimensions Table: Class 300 : FL49A

Unit : mm

SIZE		ANSI B16.5 Class 300 LB RF										RNG JOINT FACE			
DN	NPS	L	H	h	ØW	ØD	ØK	ØA	nxØd1	T	f	ØM	ØE	g	L2
15	1/2"	140	268	251	100	95	66.5	35	4x16	14.3	1.6	35	4x16	14.3	169
20	3/4"	152	268	251	100	117	82.6	43	4x20	15.8	1.6	43	4x20	15.8	184
25	1"	165	337	314	125	124	88.9	51	4x20	17.6	1.6	51	4x20	17.6	200
40	1-1/2"	191	489	459	180	155	114.3	73	4x22	20.6	1.6	73	4x22	20.6	232
50	2"	216	574	501	240	165	127.0	92	8x20	22.4	1.6	92	8x20	22.4	261

Dimensions Table: Class 600 : FL49A

Unit : mm

SIZE		ANSI B16.5 Class 600 LB RF										RNG JOINT FACE			
DN	NPS	L	H	h	ØW	ØD	ØK	ØA	nxØd1	T	f	ØM	ØE	g	L2
15	1/2"	165	268	251	100	95	66.5	35	4x16	14.3	6.4	35	4x16	14.3	194
20	3/4"	191	268	251	100	117	82.6	43	4x20	15.8	6.4	43	4x20	15.8	223
25	1"	216	337	314	125	124	88.9	51	4x20	17.6	6.4	51	4x20	17.6	251
40	1-1/2"	241	489	459	180	155	114.3	73	4x22	22.4	6.4	73	4x22	22.4	286
50	2"	292	574	501	240	165	127.0	92	8x20	25.4	6.4	92	8x20	25.4	343