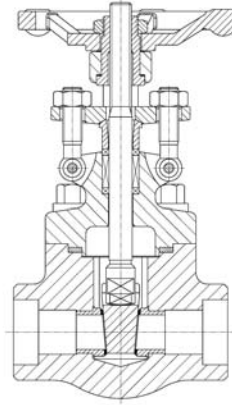


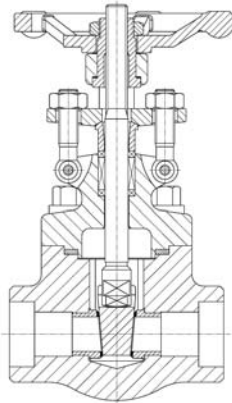
**Class: 800LB**  
**Design acc. : API 602 .**  
**Socket-welding : ASME B16.11 .**  
**Screwed end : ASME B1.20.1(NPT)**  
**Test and inspection acc. : API 598 .**  
**Body : A105 / F11**



**FIG : 081**

**Page 1**

**Class: 1500LB**  
**Design acc. : API 602 .**  
**Socket-welding : ASME B16.11 .**  
**Screwed end : ASME B1.20.1(NPT)**  
**Test and inspection acc. : API 598 .**  
**Body : A105 / F11**

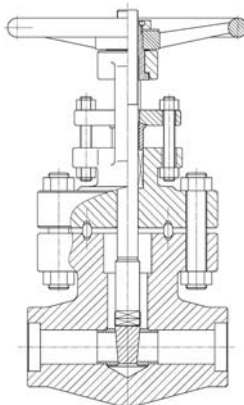


**FIG : 082**

**Page 2**



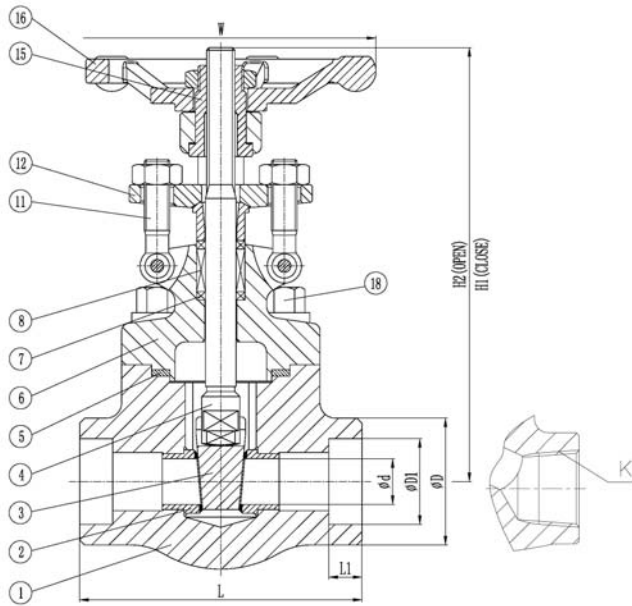
**Class: 2500LB**  
**Design acc. : ASME B16.34 .**  
**Socket-welding : ASME B16.11 .**  
**Screwed end : ASME B1.20.1(NPT)**  
**Test and inspection acc. : API 598 .**  
**Body : A105**



**FIG : 083**

**Page 3**

FIG.	Class	Material	Range
145.081	800	A105	1/4"-2"
195.081	800	F11	1/4"-2"



**Design acc. : API 602 .**  
**Socket-welding : ASME B16.11 .**  
**Screwed end : ASME B1.20.1(NPT)**  
**Test and inspection acc. : API 598 .**

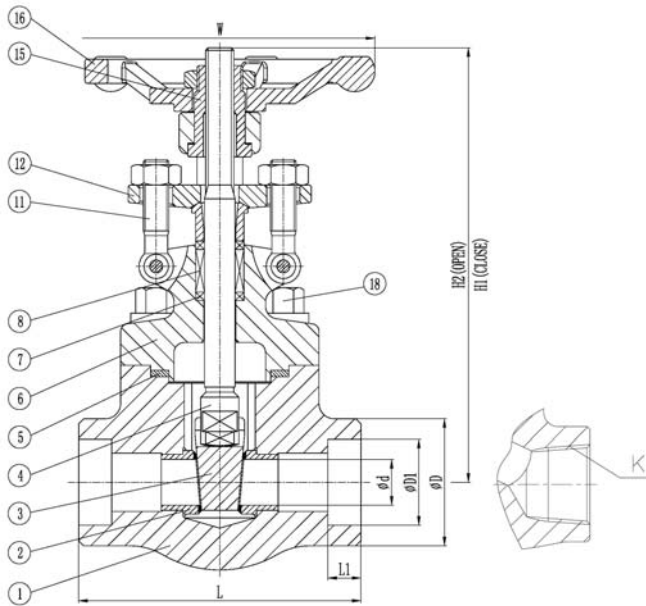
**Material list**

NO.	Part	Material	
		FIG. 145.081	FIG. 195.081
1	Body	A105	F11
2	Seat	A276-420	A276-420
3	Wedge	A276-420	A276-420
4	Stem	A182-F6a	A182-F6a
5	Bonnet gasket	Spirl wounded graphite+304	Spirl wounded graphite+304
6	Bonnet	A105	F11
7	Packing	Flexible graphite +s.s.wire	Flexible graphite +s.s.wire
8	Packing	Flexible graphite	Flexible graphite
11	Eyebolt	A193-B7	A193-B16
12	Gland flange	A105	F304
15	Stem nut	A276-410	A276-410
16	Handwheel	A197	A197
18	Bolt	A193-B7	A193-B16

**Dimension List**

Class	Size	L	H1	H2	d	D	W	D1	L1	A
800LB	1/4"	79	137	149	10	34	100	14.2	9.5	NPT 1/4
	3/8"	79	137	149	10	34	100	17.6	9.5	NPT 3/8
	1/2"	79	137	153	13	34	100	21.8	9.5	NPT 1/2
	3/4"	92	137	153	13	40	100	27.2	12.5	NPT 3/4
	1"	111	164	185	18	49	125	33.9	12.5	NPT 1
	1 1/4"	120	195	222	24	58	160	42.7	12.5	NPT 1 1/4
	1 1/2"	120	208	240	29	64	160	48.8	12.5	NPT 1 1/2
	2"	140	238	279	36.8	78	180	61.2	16.0	NPT 2

FIG.	Class	Material	Range
147.082	1500	A105	1/2"-2"
197.082	1500	F11	1/2"-2"



**Design acc. : API 602 .**  
**Socket-welding : ASME B16.11 .**  
**Screwed end : ASME B1.20.1(NPT)**  
**Test and inspection acc. : API 598 .**

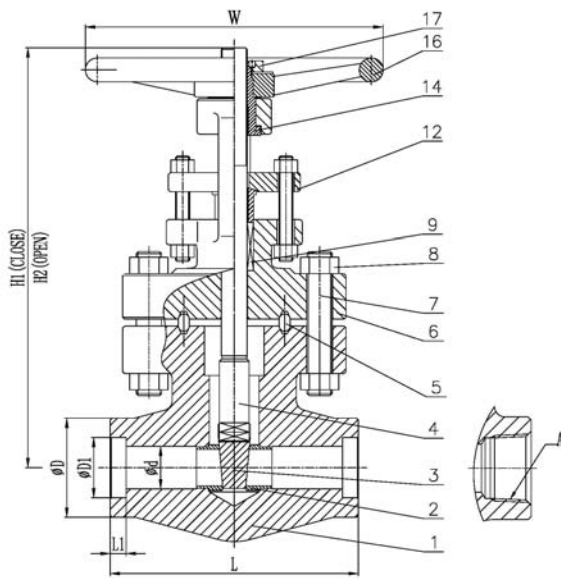
**Material list**

NO.	Part	Material	
		FIG. 147.082	FIG. 197.082
1	Body	A105	F11
2	Seat	A276-420	A276-420
3	Wedge	A276-420	A276-420
4	Stem	A182-F6a	A182-F6a
5	Bonnet gasket	Spiral wound graphite+304	Spiral wound graphite+304
6	Bonnet	A105	F11
7	Packing	Flexible graphite +s.s.wire	Flexible graphite +s.s.wire
8	Packing	Flexible graphite	Flexible graphite
11	Eyebolt	A193-B7	A193-B16
12	Gland flange	A105	F304
15	Stem nut	A276-410	A276-410
16	Handwheel	A197	A197
18	Bolt	A193-B7	A193-B16

**Dimension List**

Class	Size	L	H1	H2	d	D	W	D1	L1	K
1500LB	1/2"	92	165	181	13	42	125	21.8	10	NPT 1/2
	3/4"	111	165	181	13	49	125	27.2	13	NPT 3/4
	1"	120	197	218	18	58	160	33.9	13	NPT 1
	1 1/4"	120	210	237	24	64	160	42.7	13	NPT 1 1/4
	1 1/2"	140	242	274	29	78	180	48.8	13	NPT 1 1/2
	2"	160	267	308	36.8	88	200	61.2	16	NPT 2

FIG.	Class	Material	Range
148.083	2500	A105	1/2"-2"



**Design acc. : ASME B16.34 .**  
**Socket-welding : ASME B16.11 .**  
**Screwed end : ASME B1.20.1(NPT)**  
**Test and inspection acc. : API 598 .**

**Material list**

NO.	Part	Material	
		FIG. 148.083	
1	Body	A105	
2	Seat	A276-420	
3	Wedge	A276-420	
4	Stem	A182-F6a	
5	Body seal	A276-304	
6	Bonnet	A105	
7	Bolt	A193-B7	
8	Nut	A194-2H	
9	Packing	Flexible graphite+s.s. wire	
12	Gland flange	A105	
14	Stem nut	A276-410	
16	Handwheel	A197	
17	Lock nut	A194-2H	

**Dimension List**

Class	Size	L	H1	H2	d	D	W	D1	L1	A
										NPT60°
2500LB	1/2"	150	266	284	14	52	200	21.8	10	1/2"
	3/4"	150	266	284	14	52	200	27.2	13	3/4"
	1"	170	293	317	19	64	200	33.8	13	1"
	1 1/4"	200	344	374	25	80	300	42.7	13	1 1/4"
	1 1/2"	200	344	377	28	80	300	48.8	13	1 1/2"
	2"	230	393	434	38	95	300	61.2	16	2"