

# SHANGHAI CIPHY INDUSTRY CO.,LTD.

## ANSI CLASS 600/800/1500 FOR FORGED CARBON STEEL OR STAINLESS STEEL GATE VALVE BOLTED BONNET DESIGN

**MODEL NO: FAAXTH-RS**



### **GATE VALVE PRODUCT'S SIZE:**

PRESSURE GRADE	FROM	TO
CLASS 600	1/2"	2"
CLASS 800	1/2"	2"
CLASS 1500	1/2"	2"

### **DESIGN DESCRIPTION:**

- \* **BOLTED BONNET O.S&Y TYPE**
- \* **OPTIONAL: WELD BONNET O.S&Y TYPE**
- \* **CONNECTRION: THREADED END, SOCKETED END**
- \* **THREAD TYPE(NPT, BSPT, DIN ENDS)**
- \* **MATERIAL: A105, F304, F316, F11, F22, F304L, F316L**

### **WORKING PRESSURE AND TEMPERATURE**

WORKING TEMPERATURE		
MATERIAL	CELSIUR SCALE	FAHRENHEIT
CARBON STEEL	-29 <sup>0</sup> C~425 <sup>0</sup> C	6 <sup>0</sup> F~822 <sup>0</sup> F
STAINLESS STEEL	-40 <sup>0</sup> C~550 <sup>0</sup> C	15 <sup>0</sup> F~1047 <sup>0</sup> F

### **GENERAL DESIGN SPECIFICATIONS:**

ITEM	CLASS 600
MANUFACTURE	API 602
PRESSURE-TEMPERATURE RATINGS	ANSI B16.34
FACE TO FACE	ANSI B 16.10
INSPECTION AND TEST	API 598

### **TEST PRESSURE TO API598**

ANSI	SHELL (WATER)		SEAT (WATER)		SEAT (AIR)		BACK SEAT (WATER)	
CLASS 600	15.3MPA	2225PSI	11.2MPA	1630PSI	0.6MPA	80PSI	11.2MPA	1630PSI
CLASS 800	21.1MPA	3000PSI	15.5MPA	2200PSI	0.6MPA	80PSI	15.5MPA	2200PSI
CLASS 1500	5626PSI	395BAR	4078PSI	286BAR	80PSI	6BAR	4078PSI	286BAR

### **TRIMS SPECITIED DUE TO TABLE 3:**

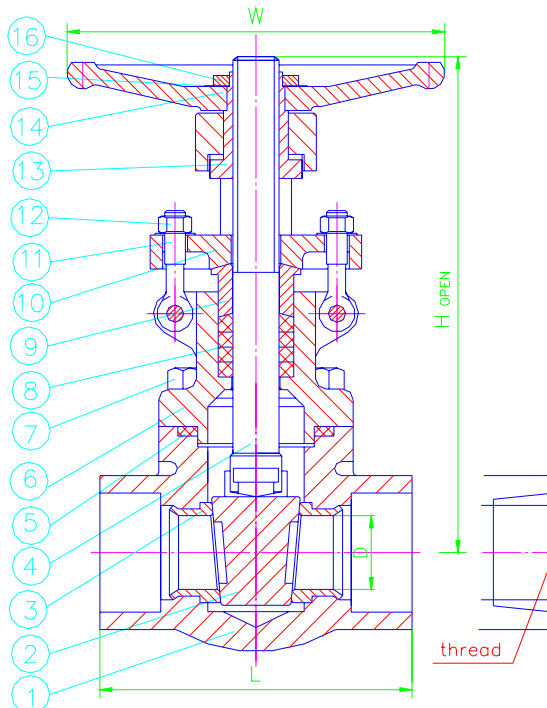
DISC SEAT SURFACE PART NO.2	BODY SEAT SURFACE PART NO.3	STEM PART NO.4
F6	F6	F6
STELLITE	STELILITE	F6
F6	STELILITE	F6
F304	F304	F304
F316	F316	F316
MONEL	MONEL	MONEL
ALLOY 20	ALLOY 20	ALLOY 20
HASTELLOY B	HASTELLOY B	HASTELLOY B

OTHER MATERIALS ARE AVAILABLE UPON REQUEST.

**PARTS AND MATERIAL (ASTM)**

NO.	PARTS NAME	MATERIALS				
		ASTM A105	ASTM F304	ASTM F316	ASTM F304L	ASTM F316L
1	BODY	ASTM A105	ASTM F304	ASTM F316	ASTM F304L	ASTM F316L
5	GASKET	GRAPHITE+304		GRAPHITE+316		
6	BONNET	ASTM A105	ASTM F304	ASTM F316	ASTM F304L	ASTM F316L
7	BONNET BLOT	ASTM A193 B7	ASTM A193 B7			
8	STEM PACKING	RAINFORCED GROPHITE				
9	GLAND	ASTM A276 410	ASTM F304L	ASTM F316L	ASTM F304L	ASTM F316L
10	GLAND FLANGE	ASTM A105	ASTM F304	ASTM F316	ASTM F316	ASTM F316
11	GLAND EYEBOLT	ASTM A193 B7	ASTM A193 B8			
12	GLAND NUT	ASTM A194 2H	ASTM A194 B8			
13	STEM NUT	ASTM A276 410	ZcuAl10Fe3			
14	HANDWHEEL	ASTM A197				
15	NAME PLATE	STAINLESS STEEL				
16	H.W.LOCK NUT	STELL				

OTHER MATERIALS ARE AVAILABLE UPON REQUEST.



**DIMENSIONS LIST(UNIT:MM):**

**CLASS 600**

DN		SIZE		D	H (OPEN)		L	W	WEIGHT (KG)	
STD	FULL	STD	FULL		B.B	W.B			B.B	W.B
15	10	1/2"	3/8"	10	158	164	79	100	2.1	1.7
20	15	3/4"	1/2"	13	164	170	92	100	2.3	2.1
25	20	1"	3/4"	18	194	199	111	125	4.0	3.7
32	25	1-1/4"	1"	24	221	230	120	160	5.9	5.2
40	32	1-1/2"	1-1/4"	29	244	244	120	160	6.9	6.2
50	40	2"	1-1/2"	36.5	282	282	140	180	11.2	10.4
	50		2"	46.5	330	330	178	200	15.8	14.8

**CLASS 800**

DN		SIZE		D	H (OPEN)		L	W	WEIGHT (KG)	
STD	FULL	STD	FULL		B.B	W.B			B.B	W.B
15	10	1/2"	3/8"	10	158	164	79	100	2.1	1.7
20	15	3/4"	1/2"	13	164	170	92	100	2.3	2.1
25	20	1"	3/4"	18	194	199	111	125	4.0	3.7
32	25	1-1/4"	1"	24	221	230	120	160	5.9	5.2
40	32	1-1/2"	1-1/4"	29	244	244	120	160	6.9	6.2
50	40	2"	1-1/2"	36.5	282	282	140	180	11.2	10.4
	50		2"	46.5	330	330	178	200	15.8	14.8

## CLASS 1500

DN		SIZE		D		H (OPEN)		L		W		WEIGHT (KG)	
STD	FULL	STD	FULL	B.B	W.B	B.B	W.B	B.B	W.B	B.B	W.B	B.B	W.B
15	10	1/2"	3/8"	13.6	13.6	197	197	111	79	125	100	4.6	3.9
20	15	3/4"	1/2"	13.6	13.6	197	197	111	92	160	100	4.3	3.9
25	20	1"	3/4"	18	20	218	218	114	111	160	125	6.3	5.8
32	25	1-1/4"	1"	24	25.4	237	237	120	127	160	160	8.7	7.8
40	32	1-1/2"	1-1/4"	29	31.2	274	274	140	152	180	160	12.1	11.2
50	40	2"	1-1/2"	36.5	38.1	320	310	162	171	200	180	17.2	16.0

**Notice:**

- 1、 **STD IS STANDARD PORT; FULL IS FULL PORT.**
  - 2、 **B.B IS BOLTED BONNET; W.B IS WELDING BONNET.**
- \* **We hereby reserve the rights of any alternative dimension that would help to improve our valve's quality and working efficiency**



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