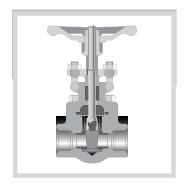


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Technical Data Sheet Forged Steel A105N GGC Valves Effective: February 13, 2014



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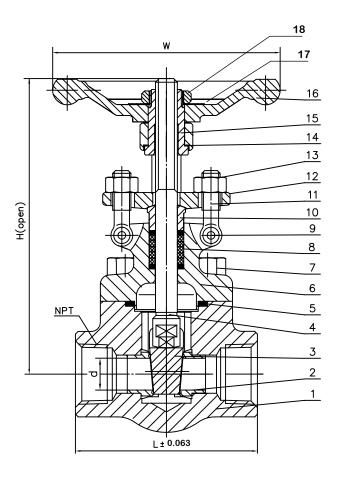
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Forged Steel Gate Valve Class 800 Conventional Port (NPT)

Figure Number: B3604XUT

Gate valve, Conventional Port, Bolted Bonnet, OS&Y, NPT Ends



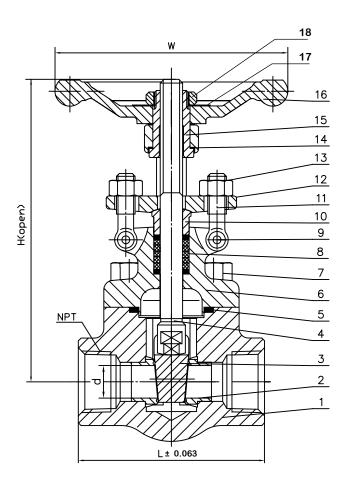
2	2	5.12		2"	6.30	10	.39	1.44			
11,	/2	4.72	11	/2"	6.30	9.	21	1.14			
11	/4	4.49	11	/4"	6.30	8.	46	0.94			
1		3.94		1"	4.92	7.	.20	0.69			
3/	/4	3.15	3,	/4"	3.94	6	.02	0.51			
1/	′2	2.87	1,	/2"	3.94	5	.71	0.37			
3/	/8	2.87	3,	/8"	3.94	5.	.71	0.37			
1/	′ 4			/4"	3.94	5	.71	0.37			
inc				IPT	w		1	d			
NP	S	_		''' '		·	لــــــٰ				
9	P	in		ASTI	M A276 30)4	18	Handwl	neel Nut		
8	Р	acking		Grap	hite		17	Namep	late		
7	В	olt		ASTI	M A193 B	7	16	Hand	wheel	ASTM A19	97
6	В	onnet		ASTI	M A105N		15	Yoke	nut	ASTM A276 410	
5	G	asket		304	+Graphite	:	14	Gaske	et	ASTM A27	76 410
4	S	tem		ASTI	M A182 F6	Sa	13	Nut		ASTM A19	4 2H
3	W	edge		ASTI	M A276 42	20	12	Gland	flange	ASTM A10	5N
2	S	eat		ASTM	I A276 410+	-STL	11	Eye b	olt	ASTM A19	3 B7
1	В	ody		ASTI	M A105N		10	Gland		ASTM A27	6 420
No.	Name		١	Material	No.	Nan	ne	Mate	erial		

- 1. Design & manufacture conform to API 602
- 2. Test & inspect conform to API 598
- 3. Face to Face dimension conform to manufacturer's standard
- 4. NPT ends conform to ASME B1.20.

Forged Steel Gate Valve Class 800 Full Port (NPT)

Figure Number: FB3604XUT

Gate valve, Full Port, Bolted Bonnet, OS&Y, NPT Ends



	2 5.71 2" 7.87 12.20 1.73									
2		5.71	2"	7.87	12.	.20	1.73			
11/	/2	5.12	11/2"	6.30	10.	.39	1.44			
11/	/4	4.72	11/4"	6.30	9.	21	1.14			
1		4.49	1"	6.30	8.	46	0.94			
3/	4	3.94	3/4"	4.92	7.	20	0.69			
1/	′2	3.15	1/2"	3.94	6.	.02	0.51			
in c	_	L	L NPT		ŀ	4	d			
9	Р			M A276 304		18	Handwh	neel Nut		
8	Р	acking	Gra	ohite	hite		Namepl	ate		
7	В	olt	AS1	M A193 B	7	16	Hand	wheel	ASTM A19	17
6	В	onnet	AS1	M A105N		15	Yoke nut		ASTM A276 410	
5	G	asket	304	+Graphite	;	14	Gaske	et	ASTM A27	76 410
4	S	tem	AST	M A182 F	6a	13	Nut		ASTM A19	4 2H
3	W	'edge	AST	M A276 4	20	12	Gland	flange	ASTM A10	5N
2	S	eat	ASTN	1 A276 410+5	STL	11	Eye b	olt	ASTM A19	3 B7
1	В	ody	AS1	M A105N		10	Gland		ASTM A27	6 420
No.	١	lame		Materia	ı	No.	Nan	ne	Mate	rial

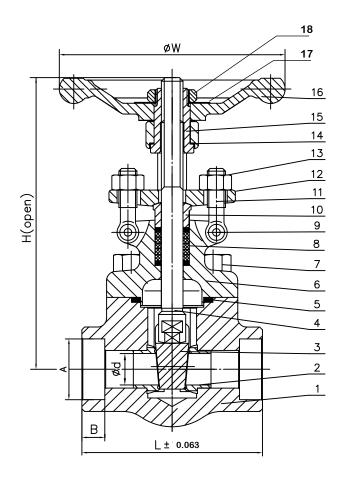
- 1. Design & manufacture conform to API 602
- 2. Test & inspect conform to API 598
- 3. Face to Face dimension conform to manufacturer's standard
- 4. NPT ends conform to ASME B1.20.1



Forged Steel Gate Valve Class 800 Conventional Port (Socket Weld)

Figure Number: B3604XUW

Gate valve, Conventional Port, Bolted Bonnet, OS&Y, Socket Weld Ends



2	2	5.12	2	.41	0.63	6.	30	10.39	1.44		
11,	/2	4.72	1	.92	0.50	6.	30	9.21	1.14		
11	/4	4.49	1	.68	0.50	6.	30	8.46	0.94		
1		3.94	1.	.33	0.50	4.	92	7.20	0.69		
3/	/4	3.15	1	.07	0.50 3.		94	6.02	0.51		
1/	′2	2.87			0.38	3.	94	5.71	0.37		
3/	/8	2.87			0.38	3.	94	5.71	0.37		
1/	′ 4	2.87	0	.56	0.38	3.	94	5.71	0.37		
inc		1	L A		В	٧	/	Н	d		
NP	S	L A							Ţ		
9	Р	in		ASTI	M A276 30	04	18	Handwh	eel Nut		
8	Р	acking		Grap	raphite			Namepla	ate		
7	В	olt		AST	M A193 B	7	16	Hand	wheel	ASTM A19)7
6	В	onnet		AST	M A105N		15	Yoke nut		ASTM A27	76 4 10
5	G	asket		304	+Graphite	:	14	Gaske	et	ASTM A27	76 410
4	S	tem		AST	M A182 F	3a	13	Nut		ASTM A19	4 2H
3	W	edge		ASTI	M A276 4:	20	12	Gland	flange	ASTM A10	5N
2	S				A276 410+5	STL	11	Eye b	olt	ASTM A19	3 B7
1	В	Body ASTM /			M A105N		10	Gland		ASTM A27	6 420
No.	١	Name		I			No.	Nan	ne	Mate	rial

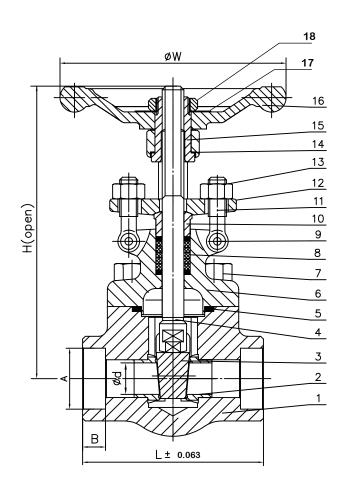
- 1. Design & manufacture conform to API 602
- 2. Test & inspect conform to API 598
- 3. Face to Face dimension conform to manufacturer's standard
- 4. SW ends coform to ASME B16.11

Forged Steel Gate Valve

Class 800 Full Port (Socket Weld)

Figure Number: FB3604XUW

Gate valve, Full Port, Bolted Bonnet, OS&Y, Socket Weld Ends



	0 5 74 0 44 0 67 7 97 40 99 4 77										
2	2	5.71	2	.41	0.63	7.	87	12.20	1.73		
11,	/2	5.12	1	.92	0.50	6.	30	10.39	1.44		
11,	/4	4.72	1	.68	0.50	6.	30	9.21	1.14		
1		4.49	1.	.33	0.50	6.	30	8.46	0.94		
3/	4	3.94	1	.07	0.50	4.	.92	7.20	0.69		
1/	′2	3.15	0	.86	0.38	3.	94	6.02	0.51		
in c		L		Α	В	٧	٧	Н	d		
	_				4 4070 7			T., , ,		I	
9	P	in		ASI	M A276 30	J4	18	Handwh	eel Nut		
8	P	acking		Grap	hite	17	Namepl	ate			
7	В	olt		ASTM A193 B7			16	Hand	wheel	ASTM A19	7
6	В	onnet		AST	M A105N		15	15 Yoke nu		ASTM A27	76 4 10
5	G	asket		304	+Graphite	:	14	Gaske	et	ASTM A276 410	
4	S	tem		AST	M A182 F	Sa .	13	Nut		ASTM A19	4 2H
3	W	'edge		AST	M A276 42	20	12	Gland	flange	ASTM A10	5N
2	S				A276 410+5	STL	11	Eye b	olt	ASTM A19	3 B7
1	В	Body AS		AST	M A105N		10	Gland		ASTM A27	6 420
No.	Ī.	Name			Materia		No.	Nan	ne	Mate	rial

- 1. Design & manufacture conform to API 602
- 2. Test & inspect conform to API 598
- 3. Face to Face dimension conform to manufacturer's standard
- 4. SW ends coform to ASME B16.11

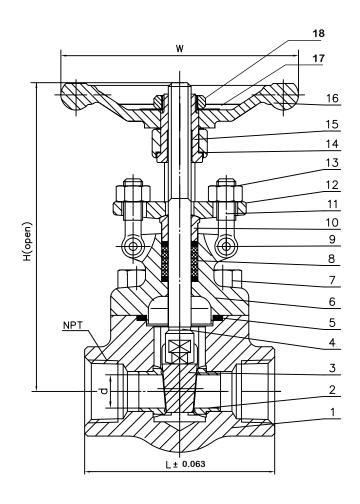


Forged Steel Gate Valve

Class 1500 Conventional Port (NPT)

Figure Number: B3804XUT

Gate valve, Conventional Port, Bolted Bonnet, OS&Y, NPT Ends



	2 5.51 2 7.09 10.98 1.44										
2		5.51		2	7.09	10.	.98	1.44			
11/	/2	5.12	1	1/2	6.30	10.	.04	1.14			
11/	/4	4.72	1	1/4	6.30	8.	97	0.94			
1		4.49		1	6.30	8.	.19	0.69			
3/	4	3.94	3	/4	4.92	7.	.01	0.51			
1/:	2	3.94	1	/2	4.92	7.	.01	0.51			
inc	ch) I ND-		JDT	w	ı	- 1	d			
NP	S	I ND		NF I	**		<u>'</u>	ŭ			
9	Р			ASTM A276 304			18	Handwl	heel Nut		
8	Р	acking		Graphite			17	Namep	late		
7	В	olt		ASTM A193 B7			16	Hand	wheel	ASTM A19	17
6	В	onnet		AST	M A105N		15	Yoke	nut	ASTM A27	6 410
5	G	asket		304	+Graphite		14	Gaske	et	ASTM A27	6 410
4	S	tem		AST	M A182 F	Sa .	13	Nut		ASTM A19	4 2H
3	W	edge		AST	M A276 42	20	12	Gland	flange	ASTM A10	5N
2	S	eat		ASTM	A276 410+5	STL	11	Eye b	olt	ASTM A19	3 B7
1	В	ody		AST	M A105N		10	Gland		ASTM A27	6 420
No.	١	Name			Materia		No.	Nan	ne	Mate	rial

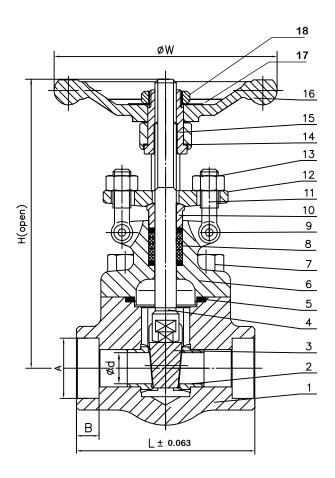
- 1. Design & manufacture conform to API 602
- 2. Test & inspect conform to API 598
- 3. Face to Face dimension conform to manufacturer's standard
- 4. NPT ends conform to ASME B1.20.1

Forged Steel Gate Valve

Class 1500 Conventional Port (Socket Weld)

Figure Number: B3804XUW

Gate valve, Conventional Port, Bolted Bonnet, OS&Y, Socket Weld Ends



	2 5.51 2.41 0.63 7.09 10.98 1.44										
2		5.51	2	.41	0.63	7.	09	10.98	1.44		
11/	/2	5.12	1	.92	0.50	6.	30	10.04	1.14		
11/	/4	4.72	1	.68	0.50	6.	30	8.98	0.94		
1		4.49	1.	.33	0.50 6.		30	8.19	0.69		
3/	4	3.94			0.50	4.	92	7.01	0.51		
1/:	2	3.94	0.86		0.38	4.	92	7.01	0.51		
inc	-	L	A		В	٧	٧	Н	d		
9	Р	in			M A276 304		18	Handwh	neel Nut		
8	Р	acking		Grap	phite		17	Namepl	ate		
7	В	olt		AST	M A193 B	7	16	Hand	wheel	ASTM A19	17
6	В	onnet		AST	M A105N		15	Yoke nut		ASTM A27	'6 4 10
5	G	asket		304	+Graphite	:	14	Gaske	et	ASTM A276 410	
4	S	tem		AST	M A182 F6	Sa .	13	Nut		ASTM A19	4 2H
3	W			ASTI	M A276 42	20	12	Gland	flange	ASTM A10	5N
2	S	eat		ASTM	A276 410+5	STL	11	Eye b	olt	ASTM A19	3 B7
1	Body ASTN		M A105N		10	Gland		ASTM A27	6 420		
No.	Name			Material			Nan	ne	Mate	rial	

- 1. Design & manufacture conform to API 602
- 2. Test & inspect conform to API 598
- 3. Face to Face dimension conform to manufacturer's standard
- 4. SW ends coform to ASME B16.11

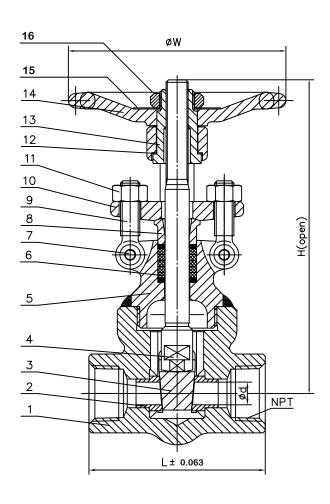


Forged Steel Welded Bonnet Gate Valve

Class 800 Conventional Port (NPT)

Figure Number: W3604XUT

Gate valve, Conventional Port, Welded Bonnet, OS&Y, NPT Ends



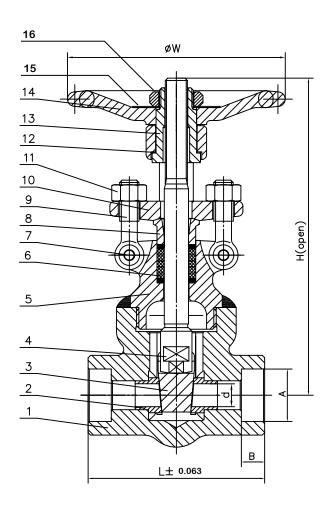
2	2	5.12	2"		6.30	10.	.39	1.44			
11	/2	4.72	11/2	2"	6.30	9.	21	1.14			
11	/4	4.49	11/4	4"	6.30	8.	46	0.94			
1		3.94	1"		4.92	7.	20	0.69			
3/	/4	3.15	3/4	"	3.94	6.	02	0.51			
1/	′2	2.87	1/2	,,	3.94	5.	71	0.37			
3/	/8	2.87			3.94	5.	71	0.37			
1/	4	2.87	1/4"		3.94	5.	71	0.37			
inc		L NPT			W	Н		d			
NP 0	r e			4 4407 D	,		1				
9	-	e bolt			1 A193 B7			<u> </u>			
8	_	and	-		1 A276 42						
7	Р	in		STI	M A276 30	04	16	Handwh	neel Nut		
6	Р	acking	G	rap	hite		15	Namep	ate		
5	В	onnet		ST	M A105N		14	Hand	wheel	ASTM A19	97
4	S	tem		ST	M A182 F	3a	13	Yoke	nut	ASTM A2	76 410
3	W				M A276 42	20	12	Gaske	et	ASTM A2	76 4 10
2	Seat ASTM A276			A276 410+5	STL	11	Nut		ASTM A19	4 2H	
1	Body ASTM A105N				10	Gland	flange	ASTM A10	5N		
No.	Name M				No.	o. Name		Material			

- 1. Design & manufacture conform to API 602
- 2. Test & inspect conform to API 598
- 3. Face to Face dimension conform to manufacturer's standard
- 4. NPT ends conform to ASME B1.20.1

Forged Steel Welded Bonnet Gate Valve Class 800 Conventional Port (Socket Weld)

Figure Number: W3604XUW

Gate valve, Conventional Port, Welded Bonnet, OS&Y, Socket Weld Ends



	2	E 10	2.4	1	0.07	6	70	40.70	4.44		
		5.12	2.4	$\overline{}$	0.63	_	30	10.39	1.44		
11	/2	4.72	1.92	2	0.50	6.	30	9.21	1.14		
11	/4	4.49	1.68	В	0.50	6.	30	8.46	0.94		
1		3.94	1.33	3	0.50	4.	.92	7.20	0.69		
3/	/4	3.15	1.07	7			94	6.02	0.51		
1/	′2	2.87	0.8	6	0.38	3.	94	5.71	0.37		
3,	/8			9	0.38	3.	94	5.71	0.37		
1/	4	2.87 0.56		6	0.38	3.	94	5.71	0.37		
ind	ch	L A			В	3 W		Н	d		
NP	S				Ъ	, v	V	11	u		
9	Ey	e bolt	A	STM	1 A193 B7	,					
8	GI	and	A	ASTM A276 420							
7	Р	in	7	ASTI	M A276 30	04	16	Handwl	neel Nut		
6	Р	acking	(Grap	hite		15	Namepl	ate		
5	В	onnet	7	ASTI	M A105N		14	Hand	wheel	ASTM A19	7
4	S	tem	1	ASTI	M A182 F6	3a	13	Yoke	nut	ASTM A27	76 410
3	W				M A276 42	20	12	Gaske	et	ASTM A27	76 410
2	Seat ASTM A276 410-			A276 410+S	STL	11	Nut		ASTM A19	4 2H	
1	Body ASTM A105N				10	Gland	flange	ASTM A10	5N		
No.	١			Material		No.	Nan	ne	Mate	rial	

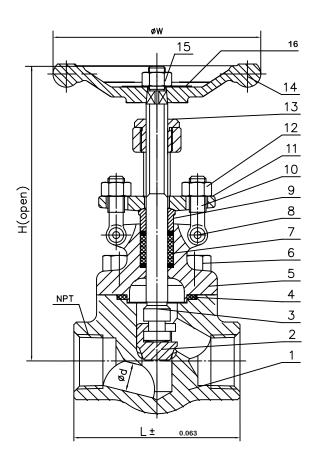
- 1. Design & manufacture conform to API 602
- 2. Test & inspect conform to API 598
- 3. Face to Face dimension conform to manufacturer's standard
- 4. SW ends coform to ASME B16.11



Forged Steel Globe Valve Class 800 Conventional Port (NPT)

Figure Number: B3644XUT

Globe valve, Conventional Port, Bolted Bonnet, OS&Y, NPT Ends



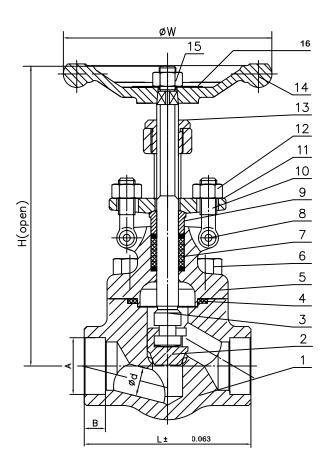
2	2	6.30	2"	7.09	10).39	1.42			
11	/2	5.71	11/2"	6.30	8.	74	1.14			
11	/4	4.49	11/4"	6.30	8.	.35	0.89			
1		3.94	1"	4.92	7.	40	0.69			
3/	/4	3.15	3/4"	3.94	6.	18	0.47			
1/	′ 2	2.87	1/2"	3.94	6.94 6.		0.35			
3/			3/8"	3.94	<u>_</u>		0.35			
1/	/4 2.87 <i>-</i>		1/4"	3.94	6.	10	0.28			
inc	ch ı		NPT	øW F		- 1	ød			
NP.	NPS L		171 1							
9	G	land	AST	M A276 42	20					
8	Р	in	AST	M A276 30	04					
7	P	acking	Gra	hite		16	Namep	late		
6	В	olt	AST	M A193 B	7	15	Nut		1035 plate Zn	
5	В	onnet	AST	M A105N		14	Hand	wheel	ASTM A19	97
4	G	asket	304	+Graphite	;	13	Yoke	nut	ASTM A27	76 410
3	S	tem	AST	M A182 F	Sa .	12	Nut		ASTM A19	4 2H
2	2 Disc		AST	M A276 4:	20	11	Gland	l flange	ASTM A10	5N
1	1 Body		AST	M A105N+	-STL	10	Eye b	olt	ASTM A19	3 B7
No.				Material			Nar	ne	Mate	erial

- 1. Design & manufacture conform to API 602
- 2. NPT ends conform to ASME B1.20.1
- 3. Face to Face dimension conform to manufacturer's standard
- 4. Inspection and test as per API 598

Forged Steel Globe Valve Class 800 Conventional Port (Socket Weld)

Figure Number: B3644XUW

Globe valve, Conventional Port, Bolted Bonnet, OS&Y, Socket Weld Ends



2	2	6.30	2.41	0.63	7.	09	10.39	1.42		
11,	/2	5.71	1.92	0.50	6.	30	8.74	1.14		
11,	/4	4.49	1.68	0.50	6.	30	8.35	0.89		
1		3.94	1.33	0.50	4.	92	7.40	0.69		
3/	′ 4	3.15	1.07	0.50	3.	.94	6.18	0.47		
1/	2	2.87	0.86	0.38	3.	94	6.10	0.35		
3/	′8	2.87	0.69	0.38	3.	94	6.10	0.35		
1/	4	2.87	0.56	0.38	0.38 3.		6.10	0.28		
inc			Α	а В		w	Н	ød		
NP:	S									
9	G	land	AST	ASTM A276 420						
8	£	in	AST	ASTM A276 30						
7	Ρ	acking	Grap	ohite		16	Namepl	ate		
6	В	olt	AST	M A193 B	7	15	Nut		1035 plate	e Zn
5	В	onnet	AST	M A105N		14	Hand	wheel	ASTM A19	97
4	G	asket	304	+Graphite	:	13	Yoke	nut	ASTM A27	76 410
3	S	tem	AST	M A182 F	3a	12	Nut		ASTM A19	4 2H
2	Disc		AST	M A276 4:	20	11	Gland	flange	ASTM A10	5N
1	Body		AST	ASTM A105N+STL		10			ASTM A19	3 B7
No.	١	lame		Material			Nan	ne	Material	

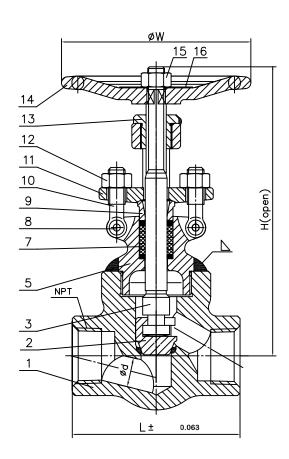
- 1. Design & manufacture conform to API 602
- 2. Test & Inspect conform to API 598
- 3. Face to Face dimension conform to manufacturer's standard
- 4. SW ebds conform to ASME B16.11



Forged Steel Welded Bonnet Globe Valve Class 800 Conventional Port (NPT)

Figure Number: W3644XUT

Globe valve, Conventional Port, Welded Bonnet, OS&Y, NPT Ends



2	2	6.30	2"		7.09	10	0.39	1.42			
11,	/2	5.71	11/:	2"	6.30	8.	74	1.14			
11,	/4	4.49	11/	$\overline{}$	6.30	8.	.35	0.89			
1		3.94	1"		4.92	7.	40	0.69			
3/	4	3.15	3/4	."	3.94	6.	18	0.47			
1/	′2	h í		"	3.94	6.	10	0.35			
in c		h l NE		т	øW	H	+	ød			
9	G	Gland		ASTM A276 420							
8	Р	in	- /	ASTM A276 304							
7	Ρ	acking	(Graphite			16	Namep	ate		
6							15	Nut		1035 plate	e Zn
5	В	onnet		ASTN	4 A105N		14	Hand	wheel	ASTM A197	
4							13	Yoke	nut	ASTM A27	76 410
3	S	tem	1	ASTN	1 A182 F	Sa	12	Nut		ASTM A19	4 2H
2	D	isc		ASTN	1 A276 42	20	11	Gland	flange	ASTM A10	5N
1	В	ody	- 1	ASTA	1 A105N+	STL	10	Eye b	olt	ASTM A19	3 B7
No.	Name		Material		No.	Nan	ne	Mate	rial		

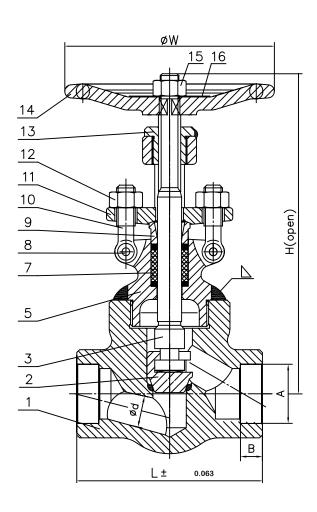
- 1. Design & manufacture conform to API 602
- 2. NPT ends conform to ASME B1.20.1
- 3. Face to Face dimension conform to manufacturer's standard
- 4. Inspection and test as per API 598



Forged Steel Welded Bonnet Globe Valve Class 800 Conventional Port (Socket Weld)

Figure Number: W3644XUW

Globe valve, Conventional Port, Welded Bonnet, OS&Y, Socket Weld Ends



2	2	6.30	2	.41	0.63	7.	09	10.39	1.42		
11	/2	5.71	1.	.92	0.50	6.	30	8.74	1.14		
11	/4	4.49	1.	.68	0.50	6.	30	8.35	0.89		
1		3.94	1.	.33	0.50	4.	92	7.40	0.69		
3/	/4	3.15	1.	.07	0.50	3.	94	6.18	0.47		
1/	′2			.86	0.38	3.	94	6.10	0.35		
in c	th Ι Δ		Α	В	ø١	N	Н	ød			
9	G	Gland AS			M A276 42	20					
8	Р	in		ASTI	M A276 30)4					
7	Р	acking		Grap	hite		16	Namep	ate		
6							15	Nut		1035 plate	e Zn
5	В	onnet		AST	M A105N		14	Hand	wheel	ASTM A197	
4							13	Yoke	nut	ASTM A27	76 410
3	S	tem		AST	M A182 F	Sa .	12	Nut		ASTM A19	4 2H
2	Disc ASTM /			M A276 4:	20	11	Gland	flange	ASTM A10	5N	
1	Body ASTM A105			M A105N+	-STL	10	Eye b	olt	ASTM A19	3 B7	
No.	Name			Materia		No.	Nan	ne	Mate	rial	

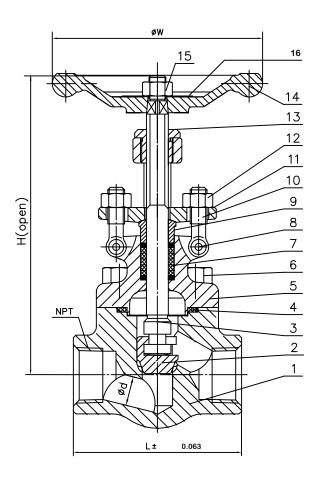
- 1. Design & manufacture conform to API 602
- 2. Test & Inspect conform to API 598
- 3. Face to Face dimension conform to manufacturer's standard
- 4. SW ends conform to ASME B16.11



Forged Steel Globe Valve Class 1500 Conventional Port (NPT)

Figure Number: B3844XUT

Globe valve, Conventional Port, Bolted Bonnet, OS&Y, NPT Ends



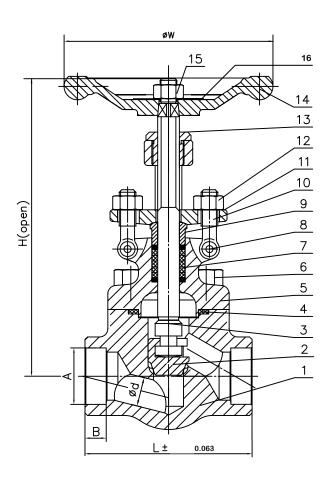
			_								
2	2	6.77		2"	7.09	11.	18	1.30			
11,	/2	6.30	1	1/2"	7.09	10.	35	1.14			
11	/4	5.71	1	1/4"	6.30	8.6	52	1.02			
1		4.49		1"	6.30	8.3	35	0.75			
3/	/4	3.94	3	/4"	4.92	7.3	36	0.57			
1/	′2	3.94	1	/2"	4.92	7.3	36	0.43			
inc		L		NPT	øW	ŀ	+	ød			
NP	_								l		
9	G	Gland		ASTI	M A276 4	20					
8	Р	Gland Pin		AST	M A276 3	04					
7	Р	acking		Grap	hite		16	Namepl	ate		
6	В	olt		AST	M A193 B	7	15	Nut		1035 plate	e Zn
5	В	onnet		AST	M A105N		14	Hand	wheel	ASTM A19	17
4	G	asket		304	+Graphite	;	13	Yoke	nut	ASTM A27	76 410
3	S	Stem			M A182 F	6a	12	Nut		ASTM A194 2H	
2	D	Disc		AST	VI A276 4	20	11	Gland	flange	ASTM A10	5N
1	Body		AST	M A105N+	-STL	10	Eye bolt		ASTM A19	3 B7	
No.	Name			Material			No.	Nar	ne	Mate	rial

- 1. Design & manufacture conform to API 602
- 2. NPT ends conform to ASME B1.20.1
- 3. Face to Face dimension conform to manufacturer's standard
- 4. Inspection and test as per API 598

Forged Steel Globe Valve Class 1500 Conventional Port (Socket Weld)

Figure Number: B3844XUW

Globe valve, Conventional Port, Bolted Bonnet, OS&Y, Socket Weld Ends



			_								
2	2	6.77	2	.41	0.63	7.0	9	11.18	1.30		
11,	/2	6.30	1.	.92	0.50	7.0	09	10.35	1.14		
11	/4	5.71	1.	.68	0.50	6.3	30	8.62	1.02		
1		4.49	1.	.33	0.50	6.3	30	8.35	0.75		
3/	/ 4	3.94	1.	.07	0.50	4.9	92	7.36	0.57		
1/	′2	3.94	0	.86	0.38	4.9	92	7.36	0.43		
in c		L	Α	В	ø	w	Н	ød			
9	G	land		ASTI	M A276 42	20					
8	Р	in	ASTI	M A276 30)4						
7	Р	acking		Grap	hite		16	Namep	late		
6	В	olt		AST	M A193 B	7	15	Nut		1035 plate	e Zn
5	В	onnet		AST	M A105N		14	Hand	wheel	ASTM A19	7
4	G	asket		304	+Graphite	1	13	Yoke	nut	ASTM A27	76 410
3	S				M A182 F	3a	12	Nut		ASTM A19	4 2H
2	Disc AS			AST	M A276 4:	20	11	Gland	flange	ASTM A10	5N
1	Body AS			AST	M A105N+	-STL	10	Eye b	olt	ASTM A19	3 B7
No.	Name			Material			No.	Nan	ne	Mate	rial

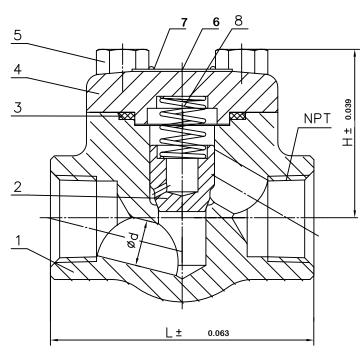
- 1. Design & manufacture conform to API 602
- 2. Test & Inspect conform to API 598
- 3. Face to Face dimension conform to manufacturer's standard
- 4. SW ebds conform to ASME B16.11



Forged Steel Piston Check Valve Class 800 Conventional Port (NPT)

Figure Number: B3674XUT

Piston Check valve, Conventional Port, Bolted Bonnet, NPT Ends



	2 6.30										
2		6.30	2	2"	4.02	1.4	12				
11/	/2	5.71	11	/2"	3.35	1.1	4				
11/	/4	4.49	11	/4"	3.15	0.8	39				
1		3.94	1	"	2.56	0.0	69				
3/	4	3.15	3/	/4"	2.20	0.4	47				
1/:	2	2.87	1/	′2"	2.09	0.	35				
3/	3/8 2.87			/8"	2.09	0.	35				
1/	1/4 2.87		1/	′4"	2.09	0.	28				
inc	ch	1		7	Н		d				
NP	S	L	N	PT	П	١ '	۱ ۱				
5	В	olt		ASTI	M A193 B	7					
4	В	onnet		ASTI	M A105N						
3				304+Graphit			8	Sprin	 g	SS304	
2	2 Disc			ASTI	M A276 4:	20	7	Rivet		H62	
1	1 Body			ASTI	M A105N+	-STL	6	Name	plate	304	
No.	lo. Name			ı	Materia		No.	Nan	ne	Mate	erial

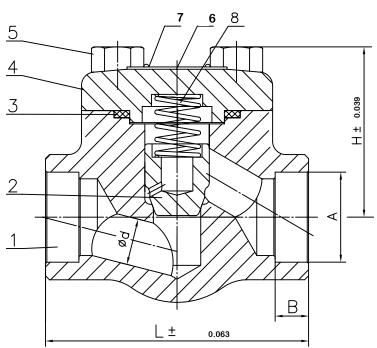
- 1. Design & manufacture conform to API 602
- 2. Test & inspect conform to API 598
- 3. Face to Face dimension conform to manufacturer's standard
- 4. NPT ends conform to ASME B1.20.1



Forged Steel Piston Check Valve Class 800 Conventional Port (Socket Weld)

Figure Number: B3674XUW

Piston Check valve, Conventional Port, Bolted Bonnet, Socket Weld Ends



2		6.30	2	.41	0.63	4.0	02	1.42			
11/	/2	5.71	1.	.92	0.50	3.3	35	1.14			
11/	/4	4.49	1.	.68	0.50	3.	15	0.89			
1		3.94	1.	.33	0.50	2.	56	0.69			
3/	4	3.15	1.	.07	0.50	2.:	20	0.47			
1/:	2	2.87	0	.86	0.38	2.0	09	0.35			
3/	8	2.87	0	.69	0.38	2.0	9	0.35			
1/	4	+		.56	0.38	2.0	09	0.28			
ind		L		Α	В	ŀ	+	d			
5	В	olt		AST	M A193 B	7					
4	В	onnet		AST	M A105N						
3	G	asket		304	+Graphi	te	8	Sprin	g	SS304	
2	D	isc		ASTI	M A276 4:	20	7	Rivet		H62	•
1	В	ody		AST	M A105N+	-STL	6	Name	plate	304	•
No.	Name		Material			No.	Nar	ne	Mate	erial	

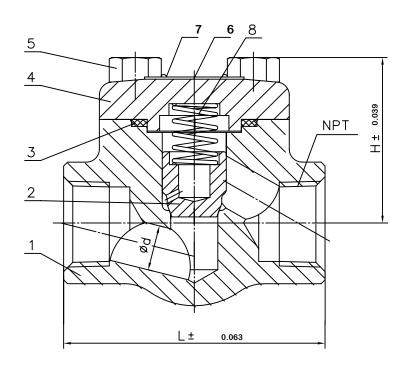
- 1. Design & manufacture conform to API 602
- 2. Test & inspect conform to API 598
- 3. Face to Face dimension conform to manufacturer's standard
- 4. SW ends coform to ASME B16.11



Forged Steel Piston Check Valve Class 1500 Conventional Port (NPT)

Figure Number: B3874XUT

Piston Check valve, Conventional Port, Bolted Bonnet, NPT Ends



	6.77										
2		6.77		2"	4.45	1.3	30				
11/	/2	6.30	11	1/2"	4.02	1.1	14				
11/	/4	5.71	11	1/4"	3.35	1.0)2				
1		4.49		1"	3.15	0.	75				
3/	4	3.94	3	/4"	2.56	0.	57				
1/:	2	3.94 1/2'			2.56	0.	43				
inc	ch i		NPT	Н		d					
NP	S	_		'' '			_				
5	В	olt		AST	M A193 B	7					
4	В	onnet		ASTI	M A105N						
3	G	asket		304	+Graphi	te	8	Sprin	g	SS304	
2	D	isc		ASTI	M A276 42	20	7	Rivet		H62	
1	В	ody		AST	M A105N+	STL	6	Name	eplate	304	
No.	o. Name		Material			No.	Nan	ne	Mate	erial	

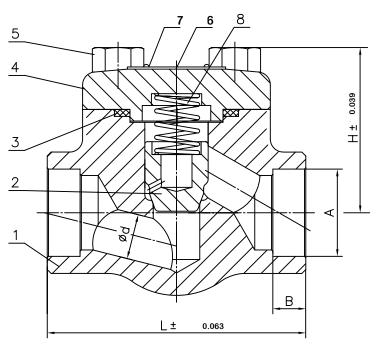
- 1. Design & manufacture conform to API 602
- 2. Test & inspect conform to API 598
- 3. Face to Face dimension conform to manufacturer's standard
- 4. NPT ends conform to ASME B1.20.1



Forged Steel Piston Check Valve Class 1500 Conventional Port (Socket Weld)

Figure Number: B3874XUW

Piston Check valve, Conventional Port, Bolted Bonnet, Socket Weld Ends



2	2	6.77	2	.41	0.63	4.4	-5	1.30			
11/	/2	6.30	-	92	0.50	4.0	2	1.14			
11/	/ 4	5.71	1.	68	0.50	3.3	35	1.02			
1		4.49	1.	.33	0.50	3.1	15	0.75			
3/	4	3.94	1.	.07	0.50	2.5	56	0.57			
1/2			0	.86	0.38	2.5	56	0.43			
	nch IPS			Α	В	ŀ	+	d			
5	-	olt		AST	M A193 B	 7					
4	В	onnet		ASTI	M A105N						
3	G	asket		304	+Graphi	te	8	Sprin	9	SS304	
2	D	isc		ASTI	VI A276 42	20	7	Rivet		H62	
1	В	ody		AST	M A105N+	STL	6	Name	plate	304	
No.	. Name			Material			No.	Nan	ne	Mate	erial

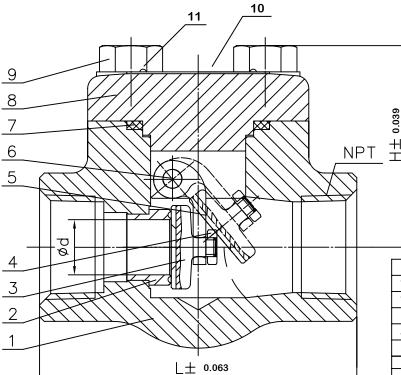
- 1. Design & manufacture conform to API 602
- 2. Test & inspect conform to API 598
- 3. Face to Face dimension conform to manufacturer's standard
- 4. SW ends coform to ASME B16.11



Forged Steel Swing Check Valve Class 800 Conventional Port (NPT)

Figure Number: B3675XUT

Swing Check valve, Conventional Port, Bolted Bonnet, NPT Ends



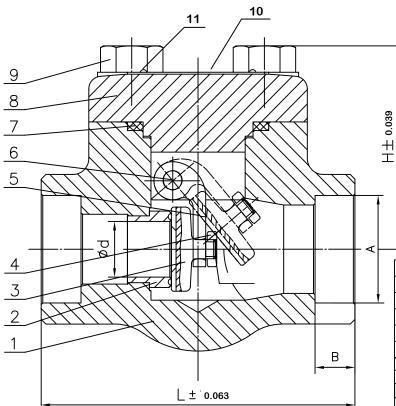
- 1. Design & manufacture conform to API 602
- 2. Test & inspect conform to API 598
- 3. Face to Face dimension conform to manufacturer's standard
- 4. NPT ends conform to ASME B1.20.1

2		5.12		2"	4.09	1.4	14					
11/	/2	4.72	11	/2"	3.54	1.1	4					
11/	/4	4.49	11	/4"	3.15	0.	94					
1		3.94		1"	2.56	0.6	69					
3/			/4"	2.20	0.5	51						
1/2			/2"	2.09	0.3	37						
	inch		١	1PT	I	d						
5	Α	rm		AST	M A351 CI	-8	10	Namep	late	11	Rivet	
4	N	ut		AST	M A94 8		9	Bolt		ASTM A193 B7		
3	D	isc		ASTI	M A276 42	20	8	Bonnet		ASTM A105N)5N
2	S	eat		ASTM	A276 410+5	STL	7	Gaske	et	30	4+Gro	phite
1	1 Body AST			M A105N		6	Pin		ASTM A276 304		6 304	
No.	No. Name		-	Material			Nan	ne		Mate	erial	

Forged Steel Swing Check Valve Class 800 Conventional Port (Socket Weld)

Figure Number: B3675XUW

Swing Check valve, Conventional Port, Bolted Bonnet, Socket Weld Ends



2		5.12	2	.41	0.63	4.	09	1.44				
11/	/2	4.72	1.	.92	0.50	3.	54	1.14				
11/	/4	4.49	1.	.68	0.50	3.	15	0.94				
1		3.94	1.	.33	0.50	2.	56	0.69				
3/	4	3.15	1.	.07	0.50	2.	20	0.51				
1/:	2	2.87	0	.86	0.38	2.	09	0.37				
inc				Α	В	H	1	d				
5	A	rm		AST	M A351 C	-8	10	Namep	late	11	Rivet	•
4	N	ut		AST	M A94 8		9	Bolt		AS	TM A19	3 B7
3	D	isc		ASTI	M A276 42	20	8	Bonnet		ASTM A105N		5N
2	S				A276 410+5	STL _	7	Gaske	et	304+Graphite		phite
1	Body ASTM			TM A105N		6	Pin		ASTM A276 304		6 304	
No.	o. Name		Material			No.	Nan	ne		Mate	erial	

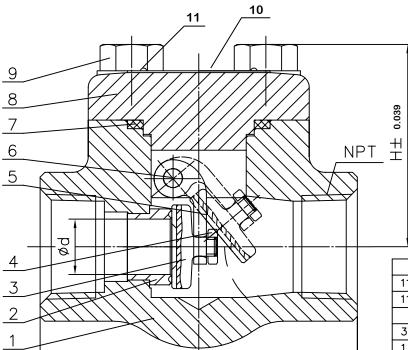
- 1. Design & manufacture conform to API 602
- 2. Test & inspect conform to API 598
- 3. Face to Face dimension conform to manufacturer's standard
- 4. SW ends coform to ASME B16.11



Forged Steel Swing Check Valve Class 1500 Conventional Port (NPT)

Figure Number: B3875XUT

Swing Check valve, Conventional Port, Bolted Bonnet, NPT Ends



2		5.51	2		4.45	1.4	14					
11/	2	5.12	11/2	2"	4.09	1.1	14					
11/	4	4.72	11/4	4"	3.54	0.9	94					
1		4.49	1"		3.15	0.0	69					
3/	3/4 3.94 1/2 3.94		3/4	"	2.56	0.	51					
1/:	/2 3.94		1/2	"	2.56	0.	51					
	inch L		NP.	т	Н		1					
NP:	S	_	'''	٠ ا								
5	Α	rm	A	STI	M A351 CI	-8	10	Namep	late	11	Rivet	
4	Ζ	ut	_ A	STI	M A94 8		9	Bolt		AS	TM A19	3 B7
3	۵	isc	_ A	IT2/	M A276 42	20	8	Bonn	et	AS	TM A10)5N
2	Ń	eat	A	STM	A276 410+5	STL.	7	Gaske	et	30)4+Gro	phite
1	В	ody	_ A	\STI	M A105N		6	Pin		AS	TM A27	6 304
No.	N	Name		1	Material		No.	Nan	ne		Mate	erial

Technical Requirements

- 1. Design & manufacture conform to API 602
- 2. Test & inspect conform to API 598
- 3. Face to Face dimension conform to manufacturer's standard

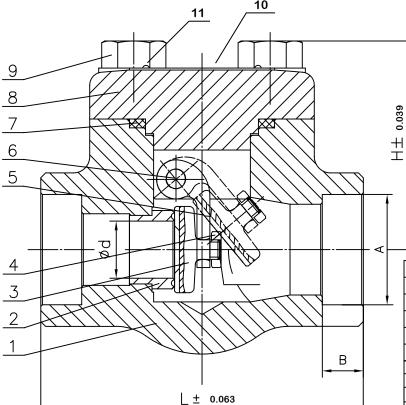
L± 0.063

4. NPT ends conform to ASME B1.20.1

Forged Steel Swing Check Valve Class 1500 Conventional Port (Socket Weld)

Figure Number: B3875XUW

Swing Check valve, Conventional Port, Bolted Bonnet, Socket Weld Ends



2		5.51	2	.41	0.63	4.	45	1.44				
11/	/2	5.12	1	.92	0.50	4.	09	1.14				
11/	/4	4.72	1	.68	0.50	3	.54	0.94				
1		4.49	1	.33	0.50	3	.15	0.69				
3/	4	3.94	1	.07	0.50	2	.56	0.51				
1/:			.86	0.38	2	.56	0.51					
inc	nch L			Α	В	H	+	d				
5	Α	rm		AST	M A351 C	F8	10	Namep	late	11	Rivet	
4	N	ut		ASTI	M A94 8		9 Bolt			AS	TM A19	3 B7
3	D	isc		ASTI	M A276 4:	20	8	Bonn	et	AS	TM A10	5N
2	S	eat		ASTM	A276 410+5	STL	7	Gaske	et	30)4+Grc	phite
1	В	ody		ASTI	M A105N		6	Pin		AS	TM A27	6 304
No.	o. Name					No.	Nar	ne		Mate	erial	

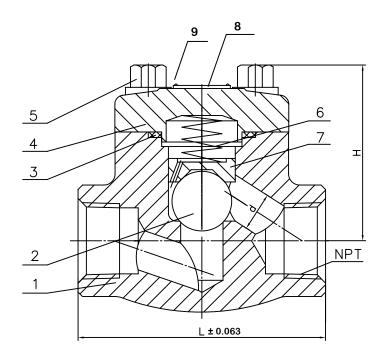
- 1. Design & manufacture conform to API 602
- 2. Test & inspect conform to API 598
- 3. Face to Face dimension conform to manufacturer's standard
- 4. SW ends coform to ASME B16.11



Forged Steel Ball Check Valve Class 800 Conventional Port (NPT)

Figure Number: B3673XUT

Ball Check valve, Conventional Port, Bolted Bonnet, NPT Ends



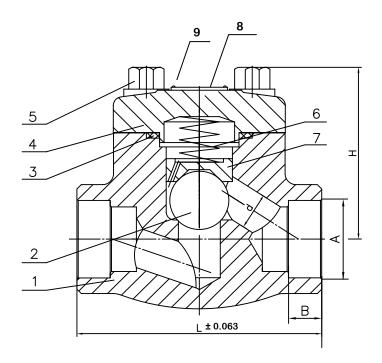
	2 6.30 11/2 5.71					_	1				
		6.30	2	2"	4.02	1.4	12				
11/	/2	5.71	11,	/2"	3.35	1.1	4				
11/	/4	4.49	11,	/4"	3.15	0.8	39				
1		3.94	1	"	2.56	0.6	69				
3/	4	3.15	3/	′4"	2.20	0.4	47				
1/:	2	2.87	1/:	2"	2.09	0.	35				
3/	3/8 2.87			′8"	2.09	0.	35				
1/4	1/4 2.87			4"	2.09	0.	28				
inc	:h	_		-	Η		7				
NP	S	_	INF	PT	п	,	כ				
5	В	olt		AST	M A193 B	7					
4	В	onnet		AST	vi A105N		9	Rivet			
3				304	+Graphi	te	8	Name	plate		
2				AST	M A276 42	20	7	Ball s	eat	ASTM A276 410	
1	1 Body A			AST	√ A105N+	STL	6	Sprin	g	SS304	
No.	No. Name			Material			No.	Nan	ne	Mate	erial

- 1. Design & manufacture conform to API 602
- 2. Test & inspect conform to API 598
- 3. Face to Face dimension conform to manufacturer's standard
- 4. NPT ends conform to ASME B1.20.1

Forged Steel Ball Check Valve Class 800 Conventional Port (Socket Weld)

Figure Number: B3673XUW

Ball Check valve, Conventional Port, Bolted Bonnet, Socket Weld Ends



2		6.30	2	.41	0.63	4.0	02	1.42			
11/	/2	5.71	1.	92	0.50	3.	35	1.14			
11/	/4	4.49	1.	.68	0.50	3.	15	0.89			
1		3.94 1.		.33	0.50	2.	56	0.69			
3/	/4 3.15 1		0.50		2.20		0.47				
1/2	2	2.87 0		.86	0.38 2.0		09	0.35			
3/	8	2.87	0	.69	0.38	2.0	9	0.35			
1/4	4	2.87 0		.56	0.38	2.0	9	0.28			
	inch NPS L			Α	В	ł	+	d			
5	_	olt		АСТ	M A193 B			1			I
4	-	onnet		ASTM A105N			9	Rivet			
3	G				+Graphite		8	Name	eplate		
2	В	Ball As			STM A276 420		7	Ball seat		ASTM A276 410	
1	Body		ASTM A105N+STL			6	Sprin	g	SS304		
No.	Name		Material			No.	Nan	ne	Mate	erial	

- 1. Design & manufacture conform to API 602
- 2. Test & inspect conform to API 598
- 3. Face to Face dimension conform to manufacturer's standard
- 4. SW ends coform to ASME B16.11



Pressure Temperature and Performance Standards A105N Forged Steel GGC Valves

Temperature F	Max Pressure (PSI)				
remperature r	800# Valves	1500 # Valves			
-20 to 100	1975	3705			
200	1810	3395			
300	1745	3270			
400	1690	3170			
500	1610	3015			
600	1515	2840			
650	1465	2745			
700	1415	2665			
750	1350	2535			
800*	1100	2055			

Tomporature C	Max Pressure (MPa)			
Temperature C	800# Valves	1500# Valves		
-29 to 38	13.62	25.53		
50	13.37	25.06		
100	12.43	23.3		
150	12.02	22.54		
200	11.68	21.9		
250	11.18	20.9		
300	10.62	19.91		
325	10.32	19.36		
350	10.02	18.78		
375	9.7	18.18		
400	9.26	17.36		
425*	7.67	14.38		

^{*} Max Temperature is 800 °F (425 °C)

Performance Standard					
Class 800					
	Shell Test	20.5			
Minimum Test	Back Seat Test*	14.9			
Pressure (MPa)	Seal Test	14.9			
*Not Applicable To Check Valves					

Performance Standard				
Class 1500				
	Shell Test	38.3		
Minimum Test	Back Seat Test*	28.0		
Pressure (MPa)	Seal Test	28.0		
*Not Applicable To Check Valves				



CRANE ChemPharma & Energy CRANE Energy Global Headquarters 4526 Research Forest Drive, Suite 400 The Woodlands, Texas 77381 U.S.A.

> Tel.: (1) 936-271-6500 Fax.: (1) 936-271-6510

www.cranecpe.com

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