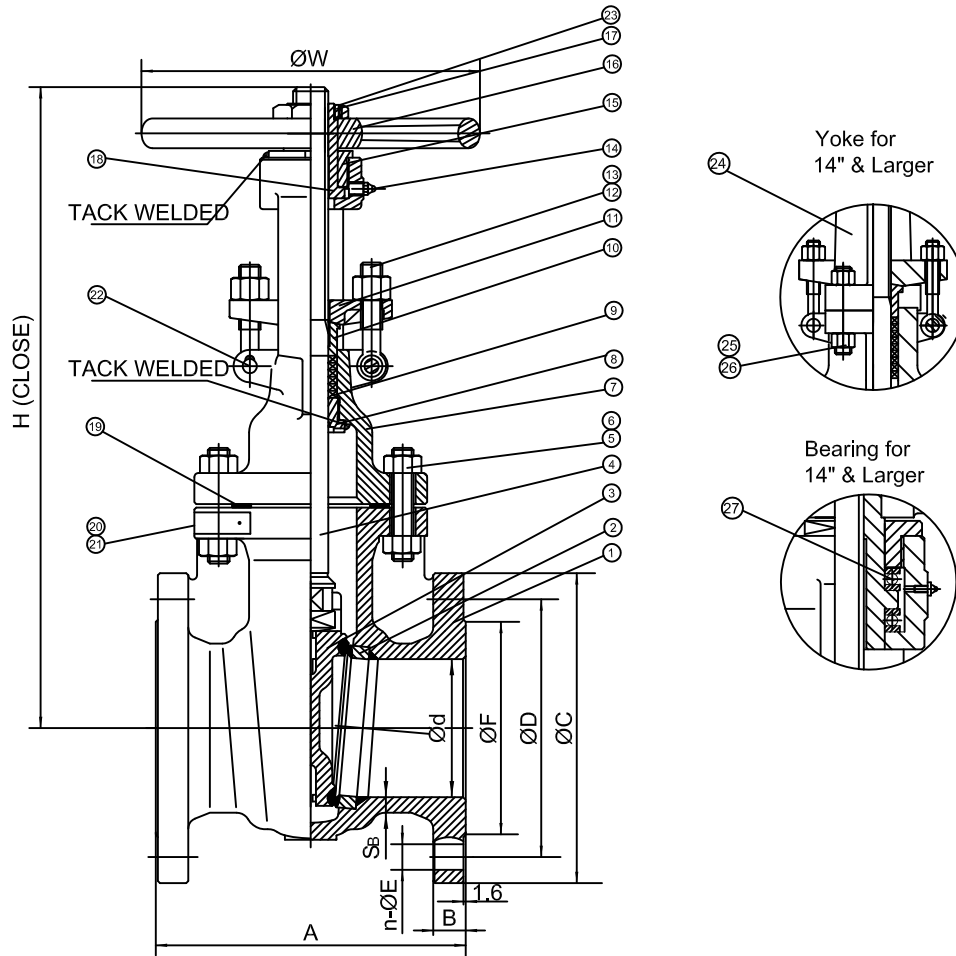


Wm. E. Williams No. 15F2N Class 150 RF OS&Y Gate Valve ASTM A216 WCB (API Trim 8) NACE



ITEM	NAME	MATERIAL	SPECIFICATION	NOTE
1	BODY	CAST STEEL	ASTM A216-WCB	NACE
2	BODY RING	CARBON STEEL	ASTM A105+HF	
3	GATE	CAST STEEL	ASTM A217-CA15(2"-4") ASTM A216-WCB+13%Cr(5"-24")	
4	STEM	STAINLESS STEEL	ASTM A182-F6a	
5	BONNET BOLT	STEEL	ASTM A193-B7M	
6	BONNET NUT	STEEL	ASTM A194-2HM	
7	BONNET	CAST STEEL	ASTM A216-WCB	
8	BACKSEAT	STAINLESS STEEL	ASTM A276-410	
9	PACKING RING	GRAPHITE		
10	GLAND	STAINLESS STEEL	ASTM A276-410	
11	GLAND FLANGE	CAST STEEL	ASTM A216-WCB	
12	EYE BOLT	STEEL	ASTM A193-B7M	
13	EYE BOLT NUT	STEEL	ASTM A194-2HM	
14	OILFILLER	STEEL	ASTM A570 Gr.A	
15	GLAND NUT	CARBON STEEL	ASTM A29-1035	
16	HANDWHEEL	NODULAR CAST IRON		
17	HANDWHEEL NUT	CARBON STEEL	ASTM A29-1035	
18	STEM NUT	NODULAR CAST IRON	ASTM A439 D-2	
19	GASKET		08F+GRAPHITE	
20	NAMEPLATE	STAINLESS STEEL	304SS	
21	RIVET	STAINLESS STEEL	304SS	
22	PIN	CARBON STEEL	ASTM A29-1035	
23	SCREW	CARBON STEEL		
24	YOKE	CAST STEEL	ASTM A216-WCB	
25	YOKE BOLT	STEEL	ASTM A193-B7M	
26	YOKE NUT	STEEL	ASTM A194-2HM	
27	BEARING	STEEL		

NOTE:
1. FLEXIBLE WEDGE

SIZE	d	A	B	C	D	n	E	F	H	W	S _b
2"	51	178	16	152	120.5	4	19	92	322	200	8.6
2.5"	64	191	17.5	178	139.5	4	19	105	354	200	9.7
3"	76	203	19	190	152.5	4	19	127	391	250	10.5
4"	102	229	24	229	190.5	8	19	157	465	250	11.5
5"	127	254	24	254	216	8	22	186	532	300	11.9
6"	152	267	26	279	241.5	8	22	216	590	300	12
8"	203	292	29	343	298.5	8	22	270	729	350	12.7
10"	254	330	31	406	362	12	25	324	869	400	14.5
12"	305	356	32	483	432	12	25	381	1013	450	16
14"	337	381	35	533	476	12	29	413	1151	500	17
16"	387	406	37	597	540	16	29	470	1305	560	17.5
18"	438	432	40	635	578	16	32	533	1433	640	18.5
20"	489	457	43	699	635	20	32	584	1598	640	19.1
24"	591	508	48	813	749.5	20	35	692	1858	720	20.6

Remark: Larger sizes available upon request

MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm
DIM.OF FLANGE	ANSI B16.5	SHELL HYDRO 450PSI	CLASS: 150	DATE: 01/01/12
FACE TO FACE	ANSI B16.10	SEAT AIR 80PSI	SIZE: 2" - 24"	SCALE: N.T.S.
WALL THICKNESS	API 600	BACK SEAT HYDRO 315PSI	DRAWN BY: F.J.	FIG. No.: 15F-2N
NO.	DATE	DESCRIPTION	PRP'D	REV'D
DESIGNED	API 600, ANSI B16.34	NACE MR 0175	CHK'D & APR'D BY: R.P.	REV: 1

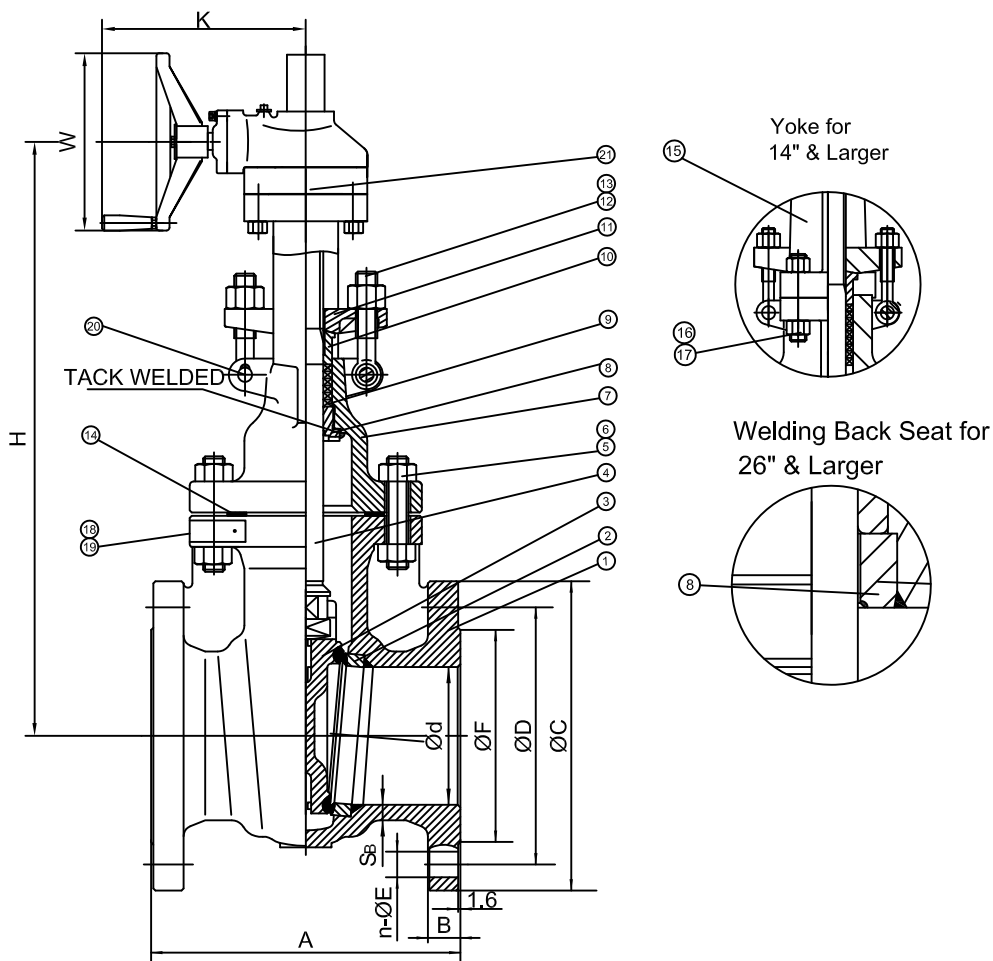
WILLIAM E. WILLIAMS VALVE CORPORATION
 38-52 REVIEW AVENUE LONG ISLAND CITY, NY 11101
 TEL: 718-392-1660 FAX: 718-729-5106

TITLE: CAST STEEL GATE VALVE CLASS 150 - API TRIM 8 - RF, BB, OS&Y

MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm
DIM.OF FLANGE	ANSI B16.5	SHELL HYDRO 450PSI	CLASS: 150	DATE: 01/01/12
FACE TO FACE	ANSI B16.10	SEAT AIR 80PSI	SIZE: 2" - 24"	SCALE: N.T.S.
WALL THICKNESS	API 600	BACK SEAT HYDRO 315PSI	DRAWN BY: F.J.	FIG. No.: 15F-2N
NO.	DATE	DESCRIPTION	PRP'D	REV'D
DESIGNED	API 600, ANSI B16.34	NACE MR 0175	CHK'D & APR'D BY: R.P.	REV: 1

DWG No.: 60GA120008-28

Wm. E. Williams No. 15F2N GO Class 150 RF OS&Y Gate Valve ASTM A216 WCB (API Trim 8) NACE



ITEM	NAME	MATERIAL	SPECIFICATION	NOTE
1	BODY	CAST STEEL	ASTM A216-WCB	NACE
2	BODY RING	CARBON STEEL	ASTM A105+HF	
3	GATE	CAST STEEL	ASTM A216-WCB+13%Cr	
4	STEM	STAINLESS STEEL	ASTM A182-F6a	
5	BONNET BOLT	STEEL	ASTM A193-B7M	
6	BONNET NUT	STEEL	ASTM A194-2HM	
7	BONNET	CAST STEEL	ASTM A216-WCB	
8	BACKSEAT	STAINLESS STEEL	ASTM A276-410	
9	PACKING RING	GRAPHITE		
10	GLAND	STAINLESS STEEL	ASTM A276-410	
11	GLAND FLANGE	CAST STEEL	ASTM A216-WCB	
12	EYE BOLT	STEEL	ASTM A193-B7M	
13	EYE BOLT NUT	STEEL	ASTM A194-2HM	
14	GASKET		08F+GRAPHITE	
15	YOKE	CAST STEEL	ASTM A216-WCB	
16	YOKE BOLT	STEEL	ASTM A193-B7M	
17	YOKE NUT	STEEL	ASTM A194-2HM	
18	NAMEPLATE	STAINLESS STEEL	304SS	
19	RIVET	STAINLESS STEEL	304SS	
20	PIN	CARBON STEEL	ASTM A29-1035	
21	GEAR			

NOTE:

1. FLEXIBLE WEDGE

SIZE	d	A	B	C	D	n	E	F	H	W	K	S _b
6"	152	267	26	279	241.5	8	22	216	609	310	310	17
8"	203	292	29	343	298.5	8	22	270	747	310	310	17.5
10"	254	330	31	406	362	12	25	324	879	310	310	18.5
12"	305	366	32	483	432	12	25	381	1038	460	345	19.1
14"	337	381	35	533	476	12	29	413	1160	460	345	17
16"	387	406	37	597	540	16	29	470	1299	460	345	17.5
18"	438	432	40	635	578	16	32	533	1439	610	420	18.5
20"	489	457	43	699	635	20	32	584	1593	610	420	19.1
24"	591	508	48	813	749.5	20	35	692	1850	610	420	20.6
26"	641	559	68	870	806.5	24	35	749	2045	710	500	21.7
28"	692	610	71	927	863.6	28	35	800	2248	710	500	23
30"	743	610	74.7	984	914.4	28	35	857	2316	710	500	23.4
32"	781	660	81	1060.5	977.9	28	41	914	2510	710	500	24
36"	876	711	90.5	1168	1086	32	41	1022	2512	800	605	25.9
40"	978	762	90.4	1289.1	1200	36	41	1124	3013	800	605	27.7
42"	1022	787	97	1346	1257.5	36	41	1194	3297	800	605	28.5
48"	1168	864	108	1511	1422.4	44	41	1359	3632	800	605	30

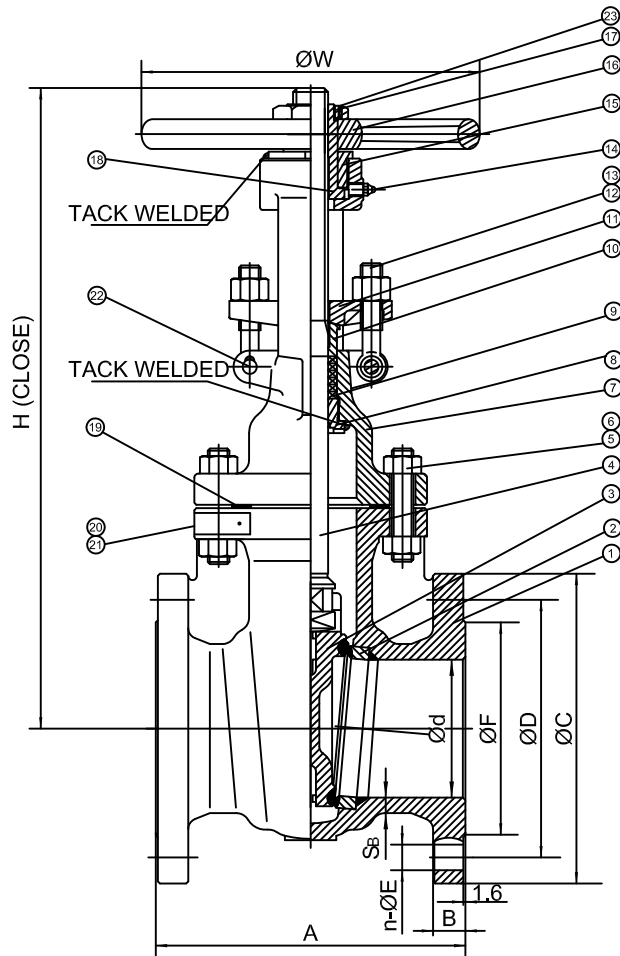
Remark: Larger sizes available upon request

NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm
						DIM.OF FLANGE	ANSI B16.5	SHELL HYDRO 450PSI	CLASS: 150	SCALE: N.T.S.
						FACE TO FACE	ANSI B16.10	SEAT AIR 80PSI	DATE: 01/01/12	FIG. No.: 15F-2N GO
						WALL THICKNESS	API 600	BACK SEAT HYDRO 315PSI	SIZE: 2" - 48"	
						DESIGNED	API 600, ANSI B16.34	NACE MR 0175	DRAWN BY: F.J.	
									CHK'D & APR'D BY: R.P.	REV: 1
										DWG No.: 60GA120041-28

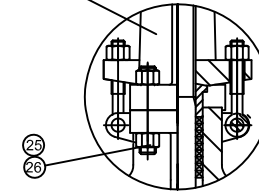
WILLIAM E. WILLIAMS VALVE CORPORATION
 38-52 REVIEW AVENUE LONG ISLAND CITY, NY 11101
 TEL: 718-392-1660 FAX: 718-729-5106

TITLE: CAST STEEL GATE VALVE CLASS 150- API TRIM 8 - GEAR OPERATED

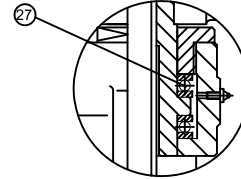
Wm. E. Williams No. 15F62N Class 150 RF OS&Y Gate Valve ASTM A216 WCB (API Trim 12) NACE



Yoke for 14" & Larger



Bearing for 14" & Larger



ITEM	NAME	MATERIAL	SPECIFICATION	NOTE
1	BODY	CAST STEEL	ASTM A216-WCB	NACE
2	BODY RING	CARBON STEEL	ASTM A105+HF	
3	GATE	CAST STEEL	ASTM A216-WCB+316	
4	STEM	STAINLESS STEEL	ASTM A182-F316	
5	BONNET BOLT	STEEL	ASTM A193-B7M	
6	BONNET NUT	STEEL	ASTM A194-2HM	
7	BONNET	CAST STEEL	ASTM A216-WCB	
8	BACKSEAT	STAINLESS STEEL	ASTM A276-316	
9	PACKING RING	GRAPHITE		
10	GLAND	STAINLESS STEEL	ASTM A276-316	
11	GLAND FLANGE	CAST STEEL	ASTM A216-WCB	
12	EYE BOLT	STEEL	ASTM A193-B7M	
13	EYE BOLT NUT	STEEL	ASTM A194-2HM	
14	OILFILLER	STEEL	ASTM A570 Gr.A	
15	GLAND NUT	CARBON STEEL	ASTM A29-1035	
16	HANDWHEEL	NODULAR CAST IRON		
17	HANDWHEEL NUT	CARBON STEEL	ASTM A29-1035	
18	STEM NUT	NODULAR CAST IRON	ASTM A439 D-2	
19	GASKET		316+GRAPHITE	
20	NAMEPLATE	STAINLESS STEEL	304SS	
21	RIVET	STAINLESS STEEL	304SS	
22	PIN	CARBON STEEL	ASTM A29-1035	
23	SCREW	CARBON STEEL		
24	YOKE	CAST STEEL	ASTM A216-WCB	
25	YOKE BOLT	STEEL	ASTM A193-B7M	
26	YOKE NUT	STEEL	ASTM A194-2HM	
27	BEARING	STEEL		

NOTE:

1. FLEXIBLE WEDGE

SIZE	d	A	B	C	D	n	E	F	H	W	S _b
2"	51	178	16	152	120.5	4	19	92	322	200	8.6
2.5"	64	191	17.5	178	139.5	4	19	105	354	200	9.7
3"	76	203	19	190	152.5	4	19	127	391	250	10.5
4"	102	229	24	229	190.5	8	19	157	465	250	11.5
5"	127	254	24	254	216	8	22	186	532	300	11.9
6"	152	267	26	279	241.5	8	22	216	590	300	12
8"	203	292	29	343	298.5	8	22	270	729	350	12.7
10"	254	330	31	406	362	12	25	324	869	400	14.5
12"	305	356	32	483	432	12	25	381	1013	450	16
14"	337	381	35	533	476	12	29	413	1151	500	17
16"	387	406	37	597	540	16	29	470	1305	560	17.5
18"	438	432	40	635	578	16	32	533	1433	640	18.5
20"	489	457	43	699	635	20	32	584	1598	640	19.1
24"	591	508	48	813	749.5	20	35	692	1858	720	20.6

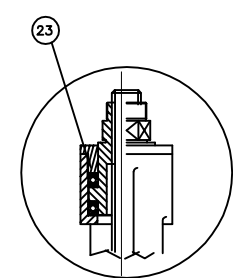
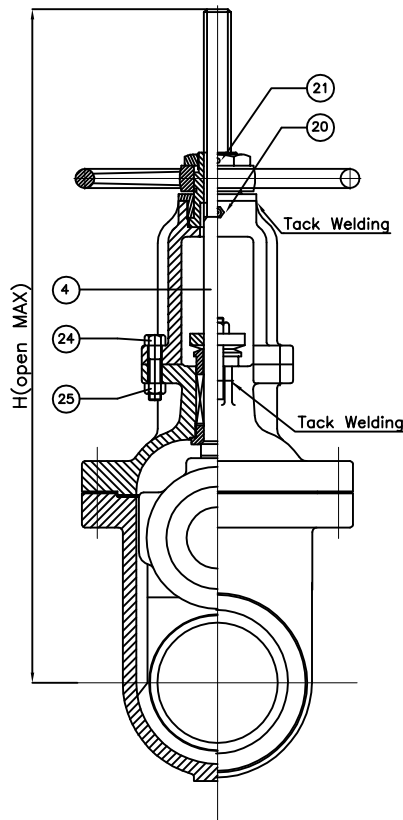
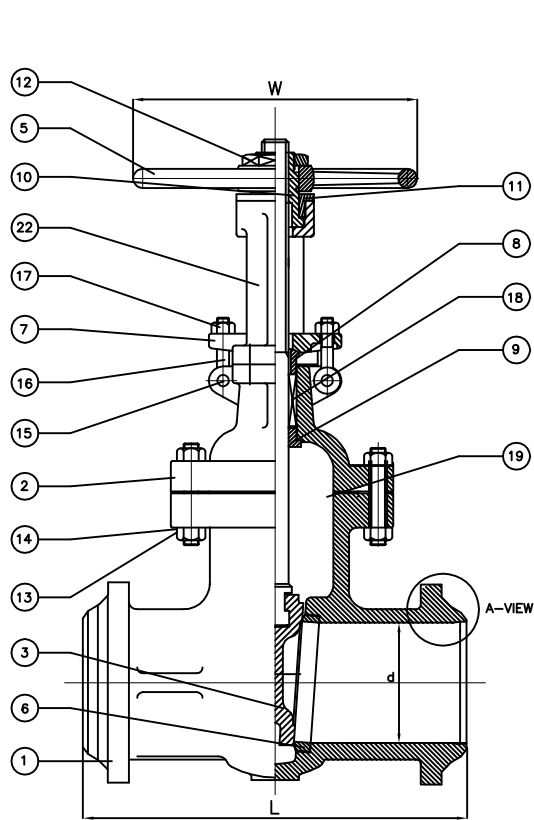
Remark: Larger sizes available upon request

WILLIAM E. WILLIAMS VALVE CORPORATION
 38-52 REVIEW AVENUE LONG ISLAND CITY, NY 11101
 TEL: 718-392-1660 FAX: 718-729-5165

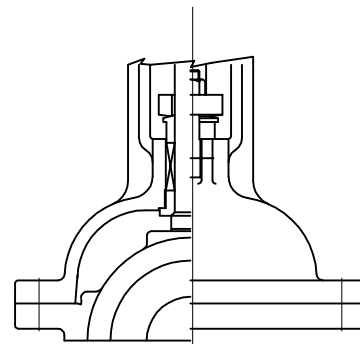
TITLE: CAST STEEL GATE VALVE CLASS 150 - API TRIM 12 - RF, BB, OS&Y		MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm
CLASS: 150	DATE: 01/01/12	SCALE: N.T.S.	FIG. No.: 15F-62N
SIZE: 2" - 24"	DRAWN BY: F.J.	CHK'D & APP'R'D BY: R.P.	REV: 1
MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	
DIM.OF FLANGE	ANSI B16.5	SHELL	HYDRO 450PSI
FACE TO FACE	ANSI B16.10	SEAT	AIR 80PSI
WALL THICKNESS	API 600	BACK SEAT	HYDRO 315PSI
DESIGNED	API 600, ANSI B16.34	NACE MR 0175	DWG No.: 60GA120013-28

NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D
Δ	1/1/12	RELEASED	F.J.	R.P.	R.P.

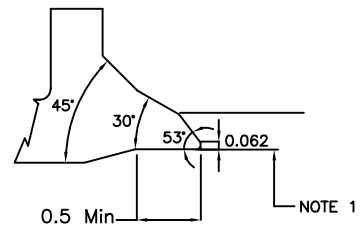
Wm. E. Williams No. 15W2N Class 150 BW OS&Y Gate Valve ASTM A 216 WCB (API Trim 8) NACE



THRUST BALL BEARINGS
14" AND ABOVE



ONE PIECE BONNET
USED FOR 2"-8"



A-VIEW

BILL OF MATERIALS

NO.	PART NAME	MATERIALS	Q'TY
1	BODY	A216Gr WCB	1
2	BONNET	A216Gr WCB	1
3	WEDGE	A216Gr WCB W/13Cr Welding	1
4	STEM	A479Gr 410 (13Cr)	1
5	HAND WHEEL	A197	1
6	SEAT RING	A105N + HF	2
7	GLAND FLANGE	WCB	1
8	GLAND RING	A479Gr 410	1
9	BACK SEAT	A479Gr 410	1
10	YOKE SLEEVE	A439Gr D2C	1
11	SLEEVE NUT	WCB	1
12	HANDLE NUT	WCB	1
13	BONNET BOLT	A193Gr B7M	1SET
14	BONNET NUT	A194Gr 2HM	1SET
15	GLAND BOLT PIN	A105N	2
16	GLAND BOLT	A193Gr B7M	2
17	GLAND NUT	A194Gr 2HM	2
18	PACKING	GRAPHITE WITH CORROSION INHIBITOR AND DIE FORMED RINGS	1SET
19	GASKET	METAL	1
20	NIPPLE	STEEL	1
21	SET SCREW	STEEL	1
22	YOKE	A216 Gr WCB	1
23	BEARING	STEEL	2
24	YOKE BOLT	A193Gr B7M	4
25	YOKE BOLT NUT	A194Gr 2HM	4

NOTE:

1. SPECIFY PIPE SCHEDULE No. REQUIRED.
2. FLEXIBLE WEDGE

SIZE	d	L	H	W
2.00	2.00	8.50	15.75	7.00
2.50	2.50	9.50	16.75	7.00
3.00	3.00	11.12	21.12	9.82
4.00	4.00	12.00	22.37	10.50
5.00	5.00	15.00	26.37	10.50
6.00	6.00	15.88	31.22	12.00
8.00	8.00	16.50	38.85	15.00
10.00	10.00	18.00	46.88	15.75
12.00	12.00	19.75	54.29	17.71
14.00	14.00	22.50	66.88	22.00
16.00	15.25	24.00	71.25	22.00
18.00	17.25	26.00	80.70	23.62
20.00	19.25	28.00	83.85	25.60
24.00	23.25	32.00	103.5	25.60
30.00	29.25	38.00	130.0	43.00
36.00	35.25	44.00	162.0	51.00

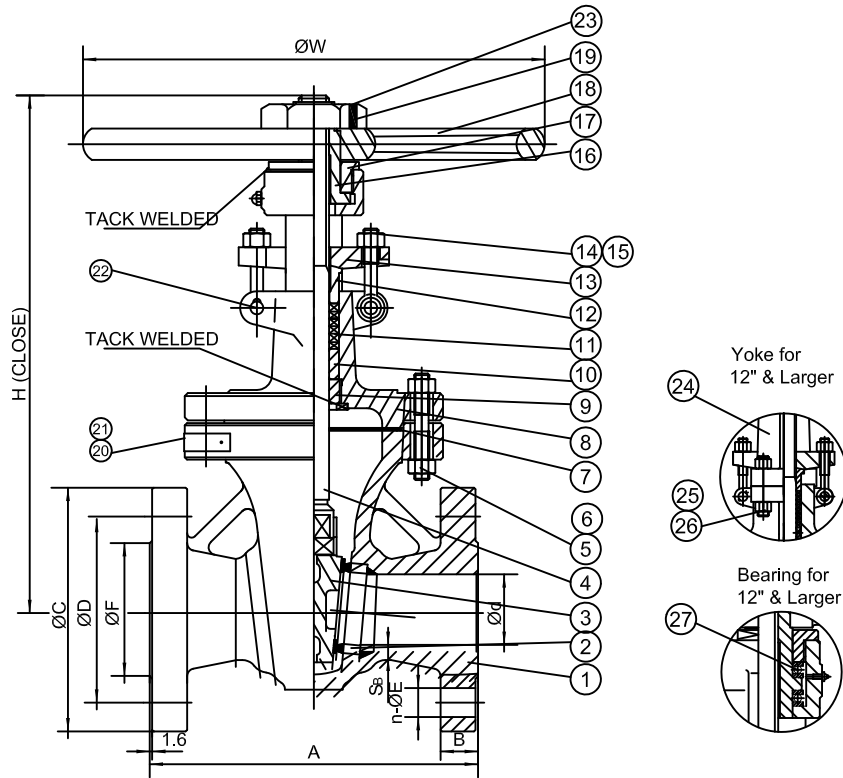
Remark: Other sizes available upon request.

					MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm	
					BUTTWELDING END	ANSI B16.25	SHELL HYDRO 450PSI	CLASS: 150	DATE: 01/01/12	SCALE: N.T.S.
					FACE TO FACE	ANSI B16.10	SEAT AIR 80PSI	SIZE: 2" - 36"		FIG. No.: 15W-2N
					WALL THICKNESS	API 600	BACK SEAT HYDRO 315PSI	DRAWN BY: F.J.		
Δ	1/1/12	ISSUED FOR PROPOSAL			DESIGNED	API 600, ANSI B16.34	NACE MR 0175	CHK'D & APR'D BY: R.P.	REV: 1	DWG No.: 60GA120017

WILLIAM E. WILLIAMS VALVE CORPORATION
 38-52 REVIEW AVENUE LONG ISLAND CITY, NY 11101
 TEL: 718-392-1660 FAX: 718-729-5106

TITLE: CAST STEEL GATE VALVE
 CLASS 150 - API TRIM 8 - B,B OS&Y, BUTTWELD END

Wm. E. Williams No. 30F2N Class 300 RF OS&Y Gate Valve ASTM A216 WCB (API Trim 8) NACE



ITEM	NAME	MATERIAL	SPECIFICATION	NOTE
1	BODY	CAST STEEL	ASTM A216-WCB	NACE
2	BODY RING	CARBON STEEL	ASTM A105+HF	
3	GATE	CAST STEEL	ASTM A217-CA15(2"-4") ASTM A216-WCB+13%Cr(5"-24")	
4	STEM	STAINLESS STEEL	ASTM A182-F6a	
5	BONNET BOLT	STEEL	ASTM A193-B7M	
6	BONNET NUT	STEEL	ASTM A194-2HM	
7	GASKET		SS304+GRAPHITE	
8	BONNET	CAST STEEL	ASTM A216-WCB	
9	BACKSEAT	STAINLESS STEEL	ASTM A276-410	
10	PACKING CUSHION	STAINLESS STEEL	ASTM A276-410	
11	PACKING RING	GRAPHITE		
12	GLAND	STAINLESS STEEL	ASTM A276-410	
13	GLAND FLANGE	CAST STEEL	ASTM A216-WCB	
14	EYE BOLT	STEEL	ASTM A193-B7M	
15	EYE BOLT NUT	STEEL	ASTM A194-2HM	
16	STEM NUT	NI-RESIST	ASTM A439 D-2	
17	GLAND NUT	CARBON STEEL	ASTM A29-1035	
18	HANDWHEEL	NODULAR CAST IRON		
19	HANDWHEEL NUT	CARBON STEEL	ASTM A29-1035	
20	NAMEPLATE	STAINLESS STEEL	304SS	
21	RIVET	STAINLESS STEEL	304SS	
22	PIN	CARBON STEEL	ASTM A29-1035	
23	SCREW	CARBON STEEL		
24	YOKE	CAST STEEL	ASTM A216-WCB	
25	YOKE BOLT	STEEL	ASTM A193-B7M	
26	YOKE NUT	STEEL	ASTM A194-2HM	
27	BEARING	STEEL		

SIZE	d	A	B	C	D	n	E	F	H	W	S _B	
2"	51	216	23	165	127	8	8	19	92	350	200	10
2.5"	64	241	26	190	149	8	22	105	367	200	200	11.2
3"	76	283	29	210	168.5	8	22	127	431	250	12	
4"	102	305	32	254	200	8	22	157	499	250	13	
5"	127	381	35	279	235	8	22	186	553	300	14.5	
6"	152	403	37	318	270	12	22	216	647	350	16	
8"	203	419	42	381	330	12	25	270	757	400	17.5	
10"	254	457	48	445	387.5	16	29	324	927	450	19.5	
12"	305	502	51	521	451	16	32	381	1070	500	21	
14"	337	762	54	584	514.5	20	32	413	1183	560	22.5	
16"	387	838	58	648	571.5	20	35	470	1318	640	24	
18"	432	914	61	711	628.5	24	35	533	1478	640	25.4	
20"	486	991	64	775	686	24	35	584	1628	720	27	
24"	584	1143	70	914	813	24	41	692	1914	900	30.2	

NOTE:

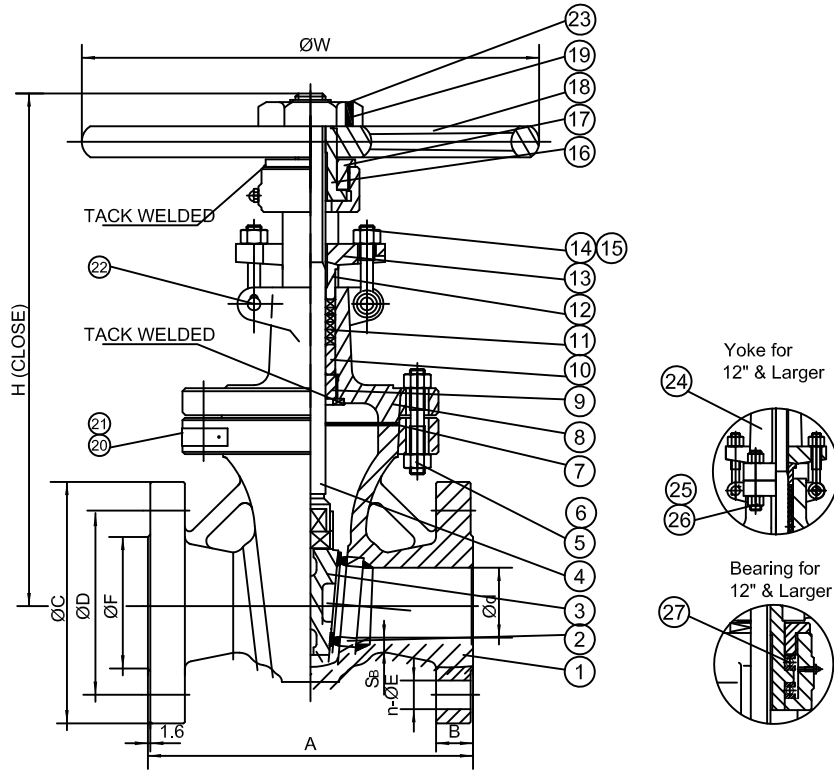
1. FLEXIBLE WEDGE

						MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm
						DIM.OF FLANGE	ANSI B16.5	SHELL	HYDRO	1125PSI
						FACE TO FACE	ANSI B16.10	SEAT	AIR	80PSI
						WALL THICKNESS	API 600	BACK SEAT	HYDRO	815PSI
Δ	1/1/12	RELEASED	F.J.	R.P.	R.P.	DESIGNED	API 600, ANSI B16.34	NACE MR 0175	CHK'D & APR'D BY: R.P.	REV: 1
NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D				DRAWN BY: F.J.	SCALE: N.T.S.
									FIG. No.: 30F-2N	DWG No.: 60GA120029-28

WILLIAM E. WILLIAMS VALVE CORPORATION
 38-52 REVIEW AVENUE LONG ISLAND CITY, NY 11101
 TEL: 718-392-1660 FAX: 718-729-5155

TITLE: CAST STEEL GATE VALVE CLASS 300 - API TRIM 8 - R,F,B OS&Y

Wm. E. Williams No. 30F62N Class 300 RF OS&Y Gate Valve ASTM A216 WCB (API Trim 12) NACE



ITEM	NAME	MATERIAL	SPECIFICATION	NOTE
1	BODY	CAST STEEL	ASTM A216-WCB	
2	BODY RING	CARBON STEEL	ASTM A105+HF	
3	GATE	CAST STEEL	ASTM A216-WCB+316	
4	STEM	STAINLESS STEEL	ASTM A182-F316	
5	BONNET BOLT	STEEL	ASTM A193-B7M	
6	BONNET NUT	STEEL	ASTM A194-2HM	
7	GASKET		SS316+GRAPHITE	
8	BONNET	CAST STEEL	ASTM A216-WCB	
9	BACKSEAT	STAINLESS STEEL	ASTM A276-316	
10	PACKING CUSHION	STAINLESS STEEL	ASTM A276-316	
11	PACKING RING	GRAPHITE		
12	GLAND	STAINLESS STEEL	ASTM A276-316	
13	GLAND FLANGE	CAST STEEL	ASTM A216-WCB	NACE
14	EYE BOLT	STEEL	ASTM A193-B7M	
15	EYE BOLT NUT	STEEL	ASTM A194-2HM	
16	STEM NUT	NI-RESIST	ASTM A439 D-2	
17	GLAND NUT	CARBON STEEL	ASTM A29-1035	
18	HANDWHEEL	NODULAR CAST IRON		
19	HANDWHEEL NUT	CARBON STEEL	ASTM A29-1035	
20	NAMEPLATE	STAINLESS STEEL	304SS	
21	RIVET	STAINLESS STEEL	304SS	
22	PIN	CARBON STEEL	ASTM A29-1035	
23	SCREW	CARBON STEEL		
24	YOKE	CAST STEEL	ASTM A216-WCB	
25	YOKE BOLT	STEEL	ASTM A193-B7M	
26	YOKE NUT	STEEL	ASTM A194-2HM	
27	BEARING	STEEL		

SIZE	d	A	B	C	D	n	E	F	H	W	S _B
2"	51	216	23	165	127	8	19	92	350	200	10
2.5"	64	241	26	190	149	8	22	105	367	200	11.2
3"	76	283	29	210	168.5	8	22	127	431	250	12
4"	102	305	32	254	200	8	22	157	499	250	13
5"	127	381	35	279	235	8	22	186	553	300	14.5
6"	152	403	37	318	270	12	22	216	647	350	16
8"	203	419	42	381	330	12	25	270	757	400	17.5
10"	254	457	48	445	387.5	16	29	324	927	450	19.5
12"	305	502	51	521	451	16	32	381	1070	500	21
14"	337	762	54	584	514.5	20	32	413	1183	560	22.5
16"	387	838	58	648	571.5	20	35	470	1318	640	24
18"	432	914	61	711	628.5	24	35	533	1478	640	25.4
20"	486	991	64	775	686	24	35	584	1628	720	27
24"	584	1143	70	914	813	24	41	692	1914	900	30.2

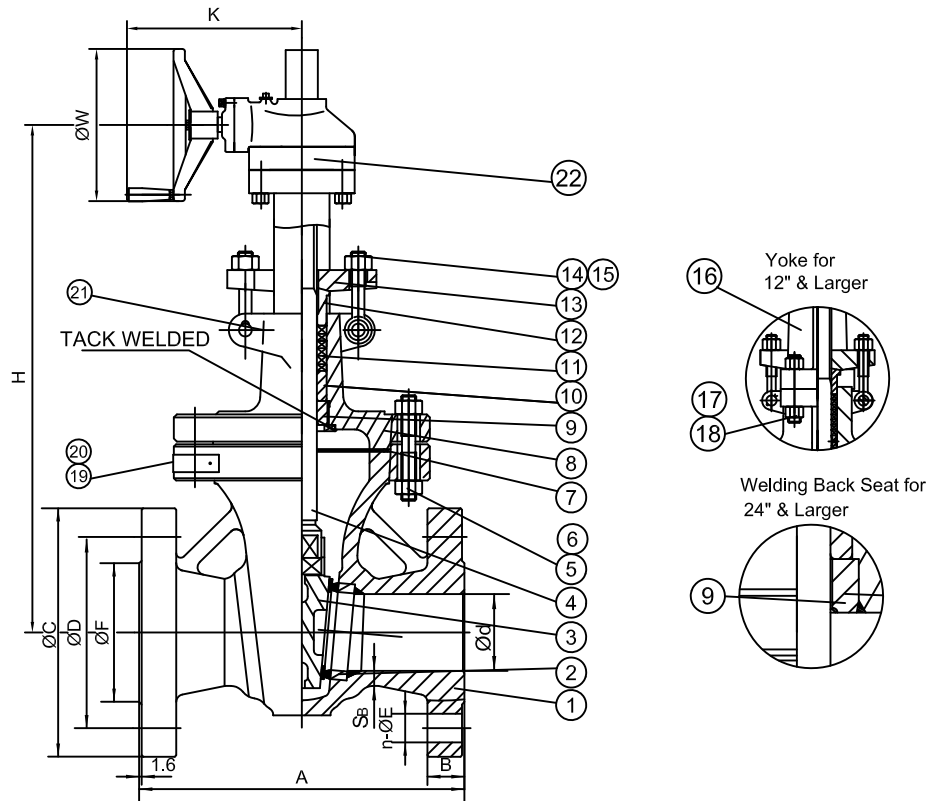
NOTE:
1. FLEXIBLE WEDGE

MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm
DIM.OF FLANGE	ANSI B16.5	SHELL HYDRO 1125PSI	CLASS: 300	DATE: 01/01/12
FACE TO FACE	ANSI B16.10	SEAT AIR 80PSI	SIZE: 2" - 24"	SCALE: N.T.S.
WALL THICKNESS	API 600	BACK SEAT HYDRO 815PSI	DRAWN BY: F.J.	FIG. No.: 30F-62N
NO.	DATE	DESCRIPTION	PRP'D	REV'D
DESIGNED	API 600, ANSI B16.34	NACE MR 0175	CHK'D & APR'D BY: R.P.	REV: 1
				DWG No.: 60GA120016-28

WILLIAM E. WILLIAMS VALVE CORPORATION
 38-52 REVIEW AVENUE LONG ISLAND CITY, NY 11101
 TEL: 718-392-1660 FAX: 718-729-5106

TITLE: CAST STEEL GATE VALVE CLASS 300 - API TRIM 12 - R,F B,B OS&Y

Wm. E. Williams No. 30F62N GO Class 300 RF OS&Y Gate Valve ASTM A216 WCB (API Trim 12) NACE



ITEM	NAME	MATERIAL	SPECIFICATION	NOTE
1	BODY	CAST STEEL	ASTM A216-WCB	NACE
2	BODY RING	CARBON STEEL	ASTM A105+HF	
3	GATE	CAST STEEL	ASTM A216-WCB+316	
4	STEM	STAINLESS STEEL	ASTM A182-F316	
5	BONNET BOLT	STEEL	ASTM A193-B7M	
6	BONNET NUT	STEEL	ASTM A194-2HM	
7	GASKET		SS316+GRAPHITE	
8	BONNET	CAST STEEL	ASTM A216-WCB	
9	BACKSEAT	STAINLESS STEEL	ASTM A276-316	
10	PACKING CUSHION	STAINLESS STEEL	ASTM A276-316	
11	PACKING RING	GRAPHITE		
12	GLAND	STAINLESS STEEL	ASTM A276-316	
13	GLAND FLANGE	CAST STEEL	ASTM A216-WCB	
14	EYE BOLT	STEEL	ASTM A193-B7M	
15	EYE BOLT NUT	STEEL	ASTM A194-2HM	
16	YOKE	CAST STEEL	ASTM A216-WCB	
17	YOKE BOLT	STEEL	ASTM A193-B7M	
18	YOKE NUT	STEEL	ASTM A194-2HM	
19	NAMEPLATE	STAINLESS STEEL	304SS	
20	RIVET	STAINLESS STEEL	304SS	
21	PIN	CARBON STEEL	ASTM A29-1035	
22	GEAR			

NOTE:

1. FLEXIBLE WEDGE

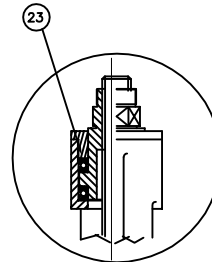
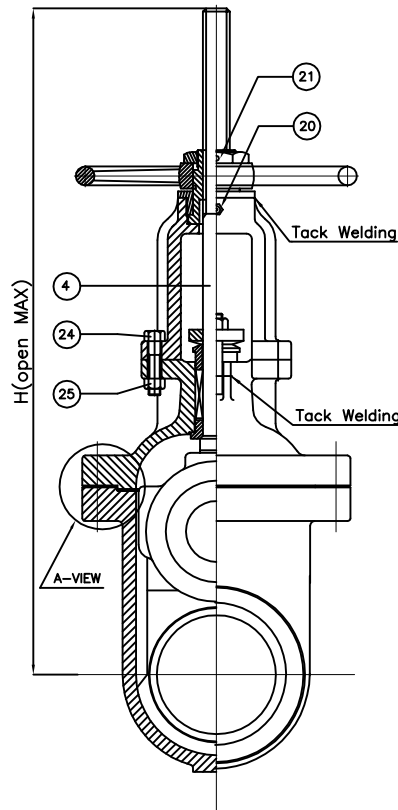
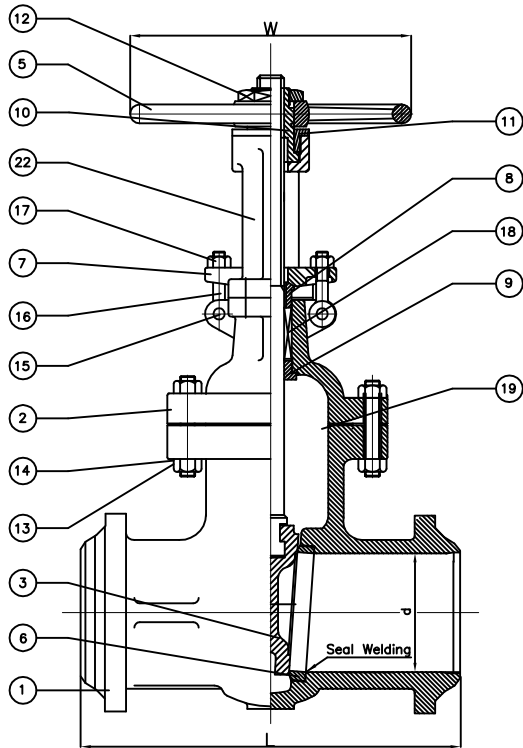
SIZE	d	A	B	C	D	n	E	F	H	W	K	S _B
6"	152	403	37	318	270	12	22	216	692	310	310	16
8"	203	419	42	381	330	12	25	270	771	310	310	17.5
10"	254	457	48	445	387.5	16	29	324	943	460	345	19.5
12"	305	502	51	521	451	16	32	381	1084	460	345	21
14"	337	762	54	584	514.5	20	32	413	1182	460	345	22.5
16"	387	838	58	648	571.5	20	35	470	1324	610	420	24
18"	432	914	61	711	628.5	24	35	533	1490	610	420	25.4
20"	483	991	64	775	686	24	35	584	1525	610	420	27
24"	584	1143	70	914	813	24	41	692	1917	710	500	30.2
26"	635	1245	79	972	876.3	28	45	749	2038	710	500	32.8
28"	686	1346	86	1035	940	28	45	800	2188	710	500	33.5
30"	737	1397	92	1092	997	28	48	857	2423	800	605	34.9
32"	781	1524	98	1149	1054	28	51	914	2548	800	605	36.4
36"	876	1727	105	1270	1168.5	32	54	1022	2877	800	605	41.2

WILLIAM E. WILLIAMS VALVE CORPORATION
 38-52 REVIEW AVENUE LONG ISLAND CITY, NY 11101
 TEL: 718-392-1660 FAX: 718-729-5106

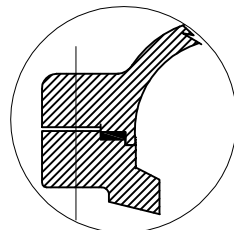
TITLE: CAST STEEL GATE VALVE CLASS 300 - API TRIM 12 - GEAR OPERATED

					MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm	
					DIM.OF FLANGE	ANSI B16.5	SHELL HYDRO 1125PSI	CLASS: 300	DATE: 1/1/12	SCALE: N.T.S.
					FACE TO FACE	ANSI B16.10	SEAT AIR 80PSI	SIZE: 6" - 36"	FIG. No.: 30F-62N GO	
					WALL THICKNESS	API 600	BACK SEAT HYDRO 815PSI	DRAWN BY: F.J.		
Δ	1/1/12	RELEASED	F.J.	R.P.	R.P.			CHK'D & APR'D BY: R.P.	REV: 1	DWG No.: 60GA120030-28
NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	API 600, ANSI B16.34	NACE MR 0175		

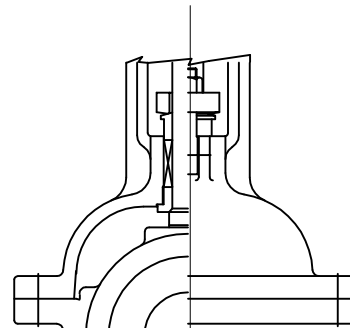
Wm. E. Williams No. 30W2N Class 300 BW OS&Y Gate Valve ASTM A 216 WCB (API Trim 8) NACE



THRUST BALL BEARINGS
14" AND ABOVE



A-VIEW
CAPTURE GASKET



ONE PIECE BONNET
USED FOR 2"-8"

BILL OF MATERIALS

NO.	PART NAME	MATERIALS	Q'TY
1	BODY	A216 Gr WCB	1
2	BONNET	A216 Gr WCB	1
3	WEDGE	A216 Gr WCB W/13Cr Welding	1
4	STEM	A479 Gr 410 (13Cr)	1
5	HAND WHEEL	A197	1
6	SEAT RING	A105N + HF	2
7	GLAND FLANGE	WCB	1
8	GLAND RING	A479 Gr 410	1
9	BACK SEAT	A479 Gr 410	1
10	YOKE SLEEVE	A439 Gr D2C	1
11	SLEEVE NUT	WCB	1
12	HANDLE NUT	WCB	1
13	BONNET BOLT	A193 Gr B7M	1SET
14	BONNET NUT	A194 Gr 2HM	1SET
15	GLAND BOLT PIN	A105N	2
16	GLAND BOLT	A193 Gr B7M	2
17	GLAND NUT	A194 Gr 2HM	2
18	PACKING	GRAPHITE WITH CORROSION INHIBITOR AND DIE FORMED RINGS	1SET
19	GASKET	METAL	1
20	NIPPLE	STEEL	1
21	SET SCREW	STEEL	1
22	YOKE	A216 Gr WCB	1
23	BEARING	STEEL	2
24	YOKE BOLT	A193 Gr B7M	4
25	YOKE BOLT NUT	A194 Gr 2HM	4

NOTE:

1. SPECIFY PIPE SCHEDULE No. REQUIRED.
2. FLEXIBLE WEDGE

SIZE	d	L	H	W
2.00	2.00	8.50	16.00	7.87
2.50	2.50	9.50	17.38	7.87
3.00	3.00	11.12	19.75	8.87
4.00	4.00	12.00	23.38	9.87
5.00	5.00	15.00	23.75	12.50
6.00	6.00	15.88	32.12	14.00
8.00	8.00	16.50	41.00	15.75
10.00	10.00	18.00	48.38	17.75
12.00	12.00	19.75	57.00	20.00
14.00	13.25	30.00	62.50	22.00
16.00	15.25	33.00	69.00	25.00
18.00	17.00	36.00	80.50	28.00
20.00	19.00	39.00	91.00	35.50
24.00	23.00	45.00	120.50	43.00

Remark: Larger sizes available upon request.

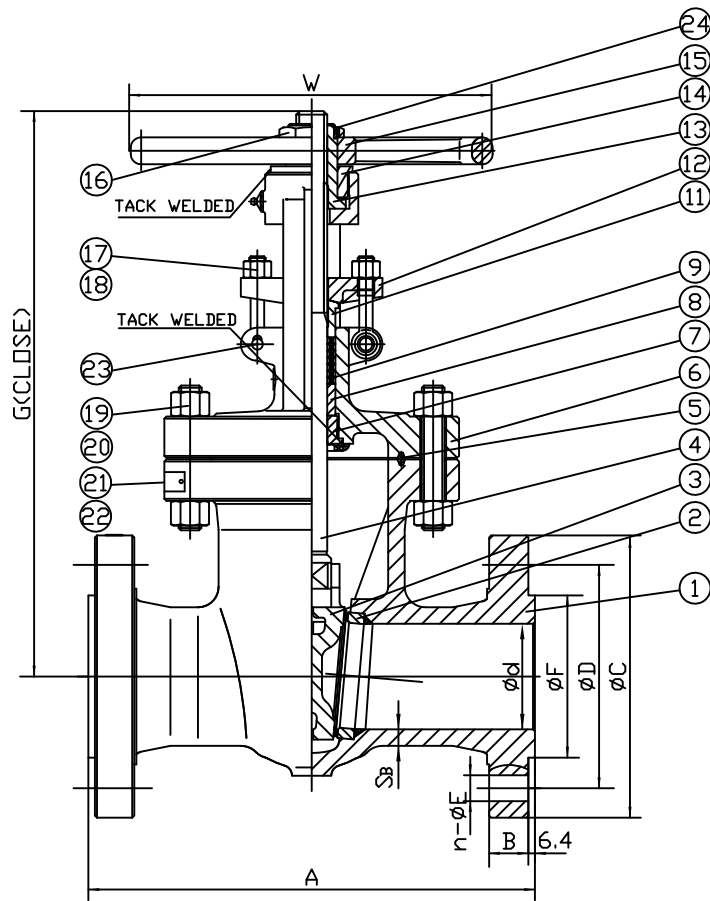
NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm
							BUTTWELDING END	ANSI B16.25	SHELL	HYDRO 1125PSI	SCALE: N.T.S.
							FACE TO FACE	ANSI B16.10	SEAT	AIR 80PSI	FIG. No.: 30W-2N
							WALL THICKNESS	API 600	BACK SEAT	HYDRO 815PSI	
								API 600, ANSI B16.34	NACE MR 0175		DWG No.: 60GA120059

WILLIAM E. WILLIAMS VALVE CORPORATION
 28-52 REVIEW AVENUE, LONG ISLAND CITY, NY 11101
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TITLE: CAST STEEL GATE VALVE
 CLASS 300 - API TRIM 8 - B, B OS&Y, BUTTWELD END

DATE: 01/01/12	DATE: 01/01/12	DATE: 01/01/12
DATE: 01/01/12	DATE: 01/01/12	DATE: 01/01/12
DATE: 01/01/12	DATE: 01/01/12	DATE: 01/01/12
DATE: 01/01/12	DATE: 01/01/12	DATE: 01/01/12

Wm. E. Williams No. 60F2N Class 600 RF OS&Y Gate Valve ASTM A216 WCB (API Trim 8) NACE



ITEM	NAME	MATERIAL	SPECIFICATION	NOTE
1	BODY	CAST STEEL	ASTM A216-WCB	
2	BODY RING	CARBON STEEL	ASTM A105+HF	
3	GATE	CAST STEEL	ASTM A217-CA15(2*) ASTM A216-WCB+13%Cr(2.5'-16")	
4	STEM	STAINLESS STEEL	ASTM A182-F6a	
5	GASKET, RING JOINT	STEEL	08F	
6	BONNET	CAST STEEL	ASTM A216-WCB	
7	BACKSEAT	STAINLESS STEEL	ASTM A276-410	
8	PACKING CUSHION	STAINLESS STEEL	ASTM A276-410	
9	PACKING RING	INCONEL WIRE WITH GRAPHITE		
11	GLAND	STAINLESS STEEL	ASTM A276-410	
12	GLAND FLANGE	CAST STEEL	ASTM A216-WCB	NACE
13	STEM NUT	NODULAR CAST IRON	ASTM A439 D-2	
14	GLAND NUT	CARBON STEEL	ASTM A29-1035	
15	HANDWHEEL	NODULAR CAST IRON		
16	HANDWHEEL NUT	CARBON STEEL	ASTM A29-1035	
17	EYE BOLT	STEEL	ASTM A193-B7M	
18	EYE BOLT NUT	STEEL	ASTM A194-2HM	
19	BONNET BOLT	STEEL	ASTM A193-B7M	
20	BONNET NUT	STEEL	ASTM A194-2HM	
21	NAMEPLATE	STAINLESS STEEL	304SS	
22	RIVET	STAINLESS STEEL	304SS	
23	PIN	CARBON STEEL	ASTM A29-1035	
24	SCREW	CARBON STEEL		
25	YOKE	CAST STEEL	ASTM A216-WCB	
26	YOKE BOLT	STEEL	ASTM A193-B7M	
27	YOKE NUT	STEEL	ASTM A194-2HM	
28	BEARING	STEEL		

NOTE:

1. FLEXIBLE WEDGE

SIZE	d	A	B	C	D	n	E	F	G	W	S _b
2"	51	292	26	165	127	8	19	92	370	200	11.5
2.5"	64	330	29	190	149	8	22	105	422	250	11.9
3"	76	356	32	210	168	8	22	127	449	250	13
4"	102	432	38	273	216	8	25	157	539	300	16
5"	127	508	44.5	330	266.5	8	29	186	597	400	18.5
6"	152	559	48	356	292	12	29	216	645	450	19.1
8"	200	660	56	419	349	12	32	270	838	500	26
10"	248	787	64	508	432	16	35	324	974	640	29
12"	298	838	67	559	489	20	35	381	1152	640	32
14"	327	889	70	603	527	20	38	413	1290	720	35.1
16"	375	991	77	686	603	20	41	470	1379	720	38.5

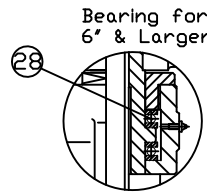
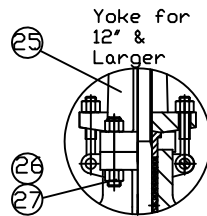
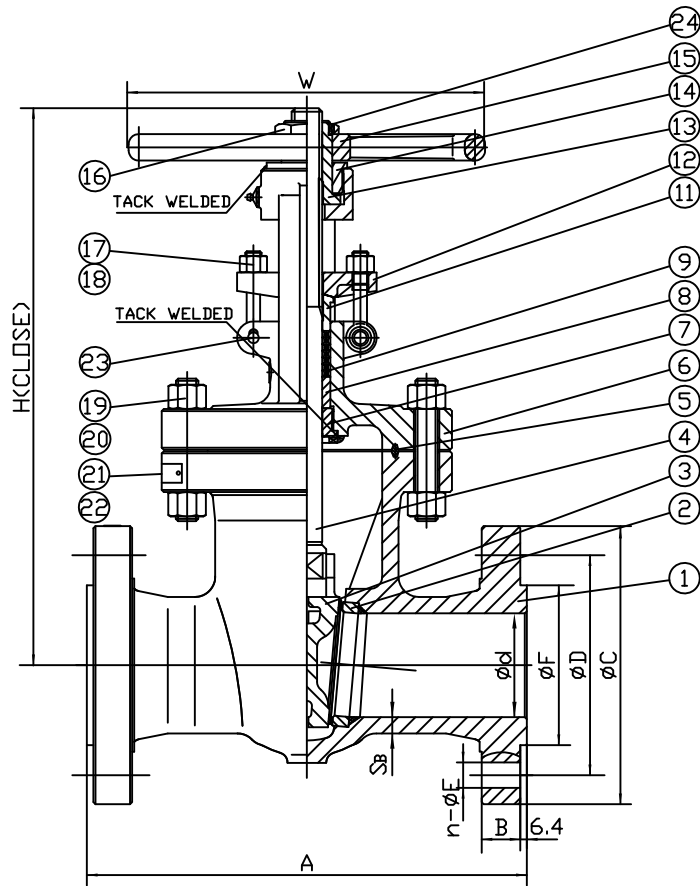
Remark: Larger sizes available upon request

NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	API 600, ANSI B16.34	NACE MR 0175	CHK'D & APR'D BY: R.P.	REV: 1	DWG No.: 60GA120035-28
						MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm	
						DIM.OF FLANGE	ANSI B16.5	SHELL HYDRO 2250PSI	CLASS: 600	DATE: 01/01/12	SCALE: N.T.S.
						FACE TO FACE	ANSI B16.10	SEAT AIR 80PSI	SIZE: 2" - 16"		FIG. No.: 60F-2N
						WALL THICKNESS	API 600	BACK SEAT HYDRO 1630PSI	DRAWN BY: F.J.		

WILLIAM E. WILLIAMS VALVE CORPORATION
 38-52 REVIEW AVENUE LONG ISLAND CITY, NY 11101
 TEL: 718-392-1660 FAX: 718-729-5106
 WWW.WILLIAMSVALVE.COM

TITLE: CAST STEEL GATE VALVE CLASS 600 - API TRIM 8 - R,F B,B OS&Y

Wm. E. Williams No. 60F62N Class 600 RF OS&Y Gate Valve ASTM A216 WCB (API Trim 12) NACE



ITEM	NAME	MATERIAL	SPECIFICATION	NOTE
1	BODY	CAST STEEL	ASTM A216-WCB	
2	BODY RING	CARBON STEEL	ASTM A105+HF	
3	GATE	CAST STEEL	ASTM A216-WCB+316	
4	STEM	STAINLESS STEEL	ASTM A182-F316	
5	GASKET,RING JIONT	STEEL	08F	
6	BONNET	CAST STEEL	ASTM A216-WCB	
7	BACKSEAT	STAINLESS STEEL	ASTM A276-316	
8	PACKING CUSHION	STAINLESS STEEL	ASTM A276-410	
9	PACKING RING	INCONEL WIRE WITH GRAPHITE		
11	GLAND	STAINLESS STEEL	ASTM A276-410	
12	GLAND FLANGE	CAST STEEL	ASTM A216-WCB	NACE
13	STEM NUT	NODULAR CAST IRON	ASTM A439 D-2	
14	GLAND NUT	CARBON STEEL	ASTM A29-1035	
15	HANDWHEEL	NODULAR CAST IRON		
16	HANDWHEEL NUT	CARBON STEEL	ASTM A29-1035	
17	EYE BOLT	STEEL	ASTM A193-B7M	
18	EYE BOLT NUT	STEEL	ASTM A194-2HM	
19	BONNET BOLT	STEEL	ASTM A193-B7M	
20	BONNET NUT	STEEL	ASTM A194-2HM	
21	NAMEPLATE	STAINLESS STEEL	304SS	
22	RIVET	STAINLESS STEEL	304SS	
23	PIN	CARBON STEEL	ASTM A29-1035	
24	SCREW	CARBON STEEL		
25	YOK	CAST STEEL	ASTM A216-WCB	
26	YOK	STEEL	ASTM A193-B7M	
27	YOK	STEEL	ASTM A194-2HM	
28	BEARING	STEEL		

NOTE:
1. FLEXIBLE WEDGE

SIZE	d	A	B	C	D	n	E	F	H	W	S _b
2"	51	292	26	165	127	8	19	92	370	200	11.5
2.5"	64	330	29	190	149	8	22	105	422	250	11.9
3"	76	356	32	210	168	8	22	127	449	250	13
4"	102	432	38	273	216	8	25	157	539	300	16
5"	127	508	44.5	330	266.5	8	29	186	597	400	18.5
6"	152	559	48	356	292	12	29	216	645	450	19.1
8"	200	660	56	419	349	12	32	270	838	500	26
10"	248	787	64	508	432	16	35	324	974	640	29
12"	298	838	67	559	489	20	35	381	1152	640	32
14"	327	889	70	603	527	20	38	413	1290	720	35.1
16"	375	991	77	686	603	20	41	470	1379	720	38.5

Remark: Larger sizes available upon request

WILLIAM E. WILLIAMS VALVE CORPORATION
 38-52 REVIEW AVENUE, LONG ISLAND CITY, NY 11101
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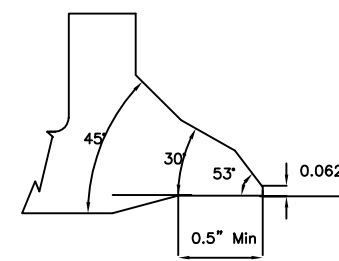
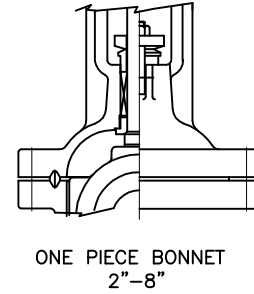
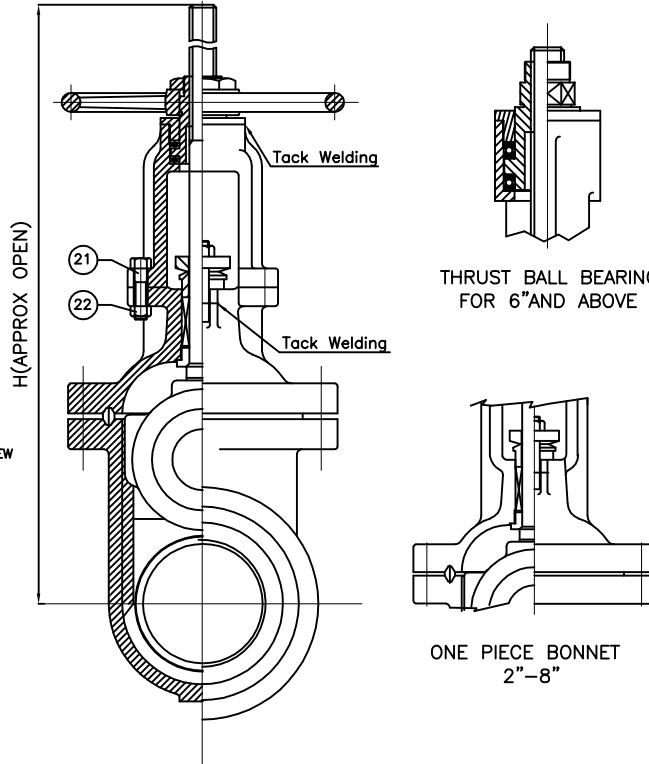
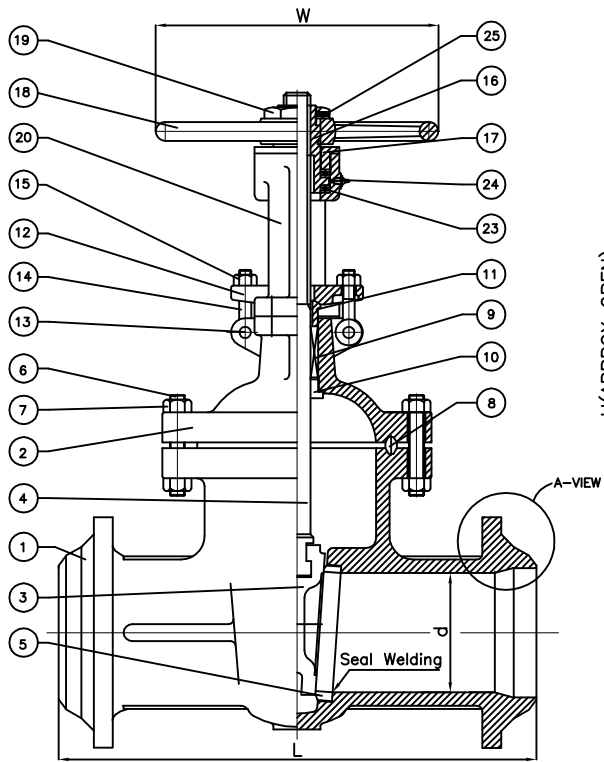
TITLE: CAST STEEL GATE VALVE
CLASS 600 - API TRIM 12 - R,F B,B OS&Y

MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm
DIM.OF FLANGE	ANSI B16.5	SHELL HYDRO 2250PSI	CLASS: 600	DATE: 01/12/15
FACE TO FACE	ANSI B16.10	SEAT AIR 80PSI	SIZE: 2" - 16"	SCALE: N.T.S.
WALL THICKNESS	API 600	BACK SEAT HYDRO 1630PSI	DRAWN BY: F.J.	FIG. No.: 60F-62N
NO.	DATE	DESCRIPTION	PRP'D	REV'D
DESIGNED	API 600, ANSI B16.34	NACE MR 0175	CHK'D & APR'D BY: R.P.	REV: 1
			REV: 1	DWG No.: 60GA120015-28

Wm. E. Williams No. 60W2N Class 600 BW OS&Y Gate Valve ASTM A 216 WCB (API Trim 8) NACE

BILL OF MATERIALS

NO.	PART NAME	MATERIALS	Q'TY
1	BODY	A216 Gr WCB	1
2	BONNET	A216 Gr WCB	1
3	WEDGE	A216 Gr WCB W/13Cr Welding	1
4	STEM	A479 Gr 410 (13Cr)	1
5	SEAT RING	A105N + HF	2
6	BONNET BOLT	A193 Gr B7M	1SET
7	BONNET NUT	A194 Gr 2HM	1SET
8	GASKET	METAL	1
9	PACKING	GRAPHITE WITH CORROSION INHIBITOR AND DIE FORMED RINGS	1SET
10	BACK SEAT	A479 Gr 410	1
11	GLAND RING	A479 Gr 410	1
12	GLAND FLANGE	WCB	1
13	GLAND BOLT PIN	A105N	2
14	GLAND BOLT	A193 Gr B7M	2
15	GLAND NUT	A194 Gr 2HM	2
16	YOKE SLEEVE	A439 Gr D2C	1
17	SLEEVE NUT	WCB	1
18	HAND WHEEL	A197	1
19	HANDLE NUT	WCB	1
20	YOKE	A216 Gr WCB	1
21	YOKE BOLT	A193 Gr B7M	4
22	YOKE BOLT NUT	A194 Gr 2HM	4
23	BEARING	STEEL	2
24	NIPPLE	STEEL	1
25	SET SCREW	STEEL	1



A-VIEW

SIZE	d	L	H	W
2.00	2.00	11.50	16.50	7.87
2.50	2.50	13.00	18.00	8.87
3.00	3.00	14.00	20.12	9.87
4.00	4.00	17.00	25.00	14.00
5.00	5.00	20.00	30.50	15.75
6.00	6.00	22.00	33.62	17.75
8.00	7.88	26.00	42.37	20.00
10.00	9.75	31.00	49.00	25.00
12.00	11.75	33.00	68.50	27.00
14.00	12.88	35.00	69.00	31.50
16.00	14.75	39.00	74.00	35.50
18.00	16.50	43.00	84.25	43.00
20.00	18.25	47.00	93.50	51.00
24.00	22.00	55.00	110.00	51.00

Remark: Larger sizes available upon request.

NOTE:

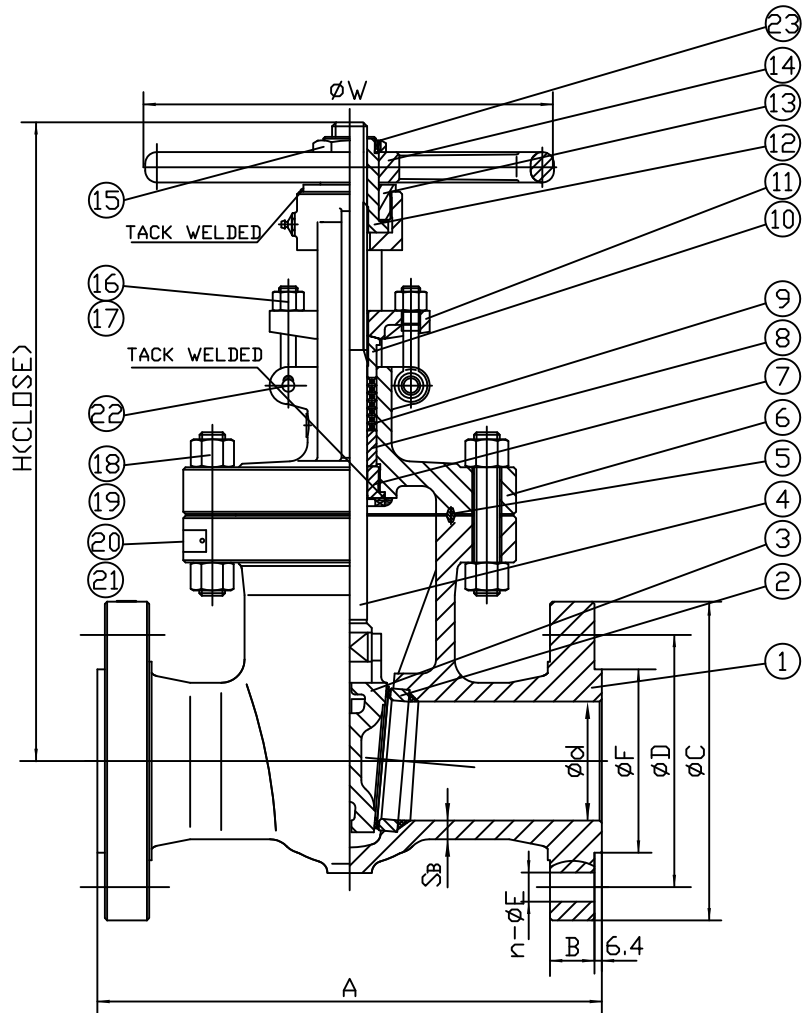
- SPECIFY PIPE SCHEDULE No. REQUIRED.
- FLEXIBLE WEDGE

		MARKING SYSTEM		MSS-SP-25	INSPECTION & TEST: API 598		MATERIAL: ASTM A216 GR.WCB		UNITS: Inch, mm		
		BUTTWELDING END		ANSI B16.25	HYDRO		CLASS: 600		DATE: 01/01/12		
		FACE TO FACE		ANSI B16.10	SEAT		SIZE: 2" - 24"		SCALE: N.T.S.		
		WALL THICKNESS		API 600	BACK SEAT		DRAWN BY: F.J.		FIG. No.: 60W-2N		
NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	API 600, ANSI B16.34	NACE MR 0175	CHK'D & APR'D BY: R.P.	REV: 1	DWG No.: 60GA120060

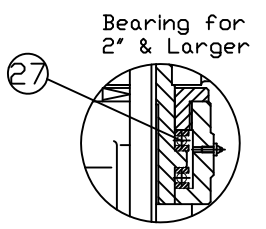
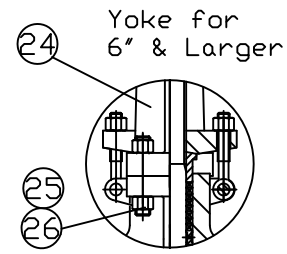
WILLIAM E. WILLIAMS VALVE CORPORATION
 28-52 REVIEW AVENUE LONG ISLAND CITY, NY 11101
 TEL: 718-392-1660 FAX: 718-729-5155

TITLE: CAST STEEL GATE VALVE CLASS 600 - API TRIM 8 - B, B OS&Y, BUTTWELD END

Wm. E. Williams No. 90F2N Class 900 OS&Y Gate Valve ASTM A 216 WCB (API Trim 8) NACE



ITEM	NAME	MATERIAL	SPECIFICATION	NOTE
1	BODY	CAST STEEL	ASTM A216-WCB	NACE
2	BODY RING	CARBON STEEL	ASTM A105+HF	
3	GATE	CAST STEEL	ASTM A216-WCB+13%Cr	
4	STEM	STAINLESS STEEL	ASTM A182-F6a	
5	GASKET,RING JOINT	STEEL	08F	
6	BONNET	CAST STEEL	ASTM A216-WCB	
7	BACKSEAT	STAINLESS STEEL	ASTM A276-410	
8	PACKING CUSHION	STAINLESS STEEL	ASTM A276-410	
9	PACKING RING	INCONEL WIRE WITH GRAPHITE		
10	GLAND	STAINLESS STEEL	ASTM A276-410	
11	GLAND FLANGE	CAST STEEL	ASTM A216-WCB	
12	STEM NUT	MODULAR CAST IRON	ASTM A439 D-2	
13	GLAND NUT	CARBON STEEL	ASTM A29-1035	
14	HANDWHEEL	MODULAR CAST IRON		
15	HANDWHEEL NUT	CARBON STEEL	ASTM A29-1035	
16	EYE BOLT	STEEL	ASTM A193-B7M	
17	EYE BOLT NUT	STEEL	ASTM A194-2HM	
18	BONNET BOLT	STEEL	ASTM A193-B7M	
19	BONNET NUT	STEEL	ASTM A194-2HM	
20	NAMEPLATE	STAINLESS STEEL	304SS	
21	RIVET	STAINLESS STEEL	304SS	
22	PIN	CARBON STEEL	ASTM A29-1035	
23	SCREW	CARBON STEEL		
24	YOKE	CAST STEEL	ASTM A216-WCB	
25	YOKE BOLT	STEEL	ASTM A193-B7M	
26	YOKE NUT	STEEL	ASTM A194-2HM	
27	BEARING	STEEL		



NOTE:
1. FLEXIBLE WEDGE

SIZE	d	A	B	C	D	n	E	F	H	W	S _b
2"	47	368	38.5	216	165	8	26	92	405	250	19.1
2.5"	57	419	41.5	244	190.5	8	29	105	483	300	22.5
3"	73	381	38.5	241	190.5	8	26	127	523	350	19.5
4"	98	457	44.5	292	234.9	8	32	157	555	350	21.3
6"	146	610	56	381	317.5	12	32	216	759	500	26.2
8"	190	737	63.5	470	393.7	12	39	270	883	640	31.8
10"	238	838	70	546	469.9	16	39	324	1068	720	37

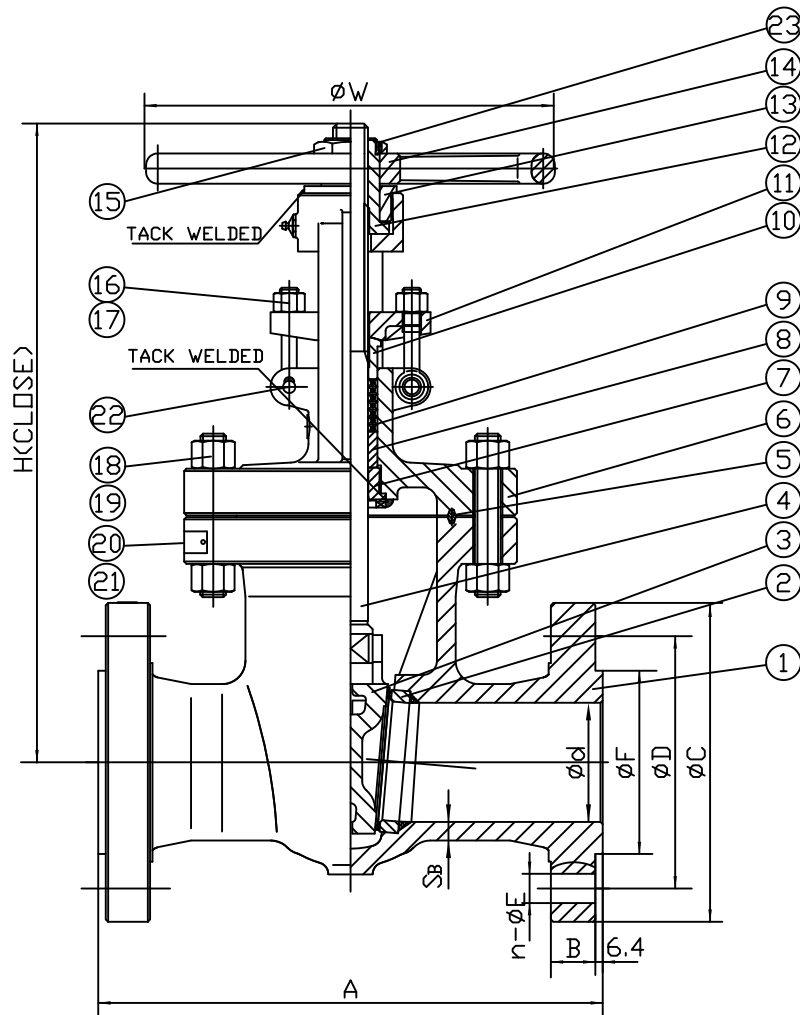
Remark: Larger sizes available upon request

WILLIAM E. WILLIAMS VALVE CORPORATION
 38-52 REVIEW AVENUE LONG ISLAND CITY, NY 11101
 TEL: 718-392-1660 FAX: 718-729-5106

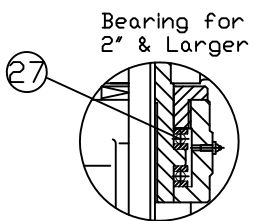
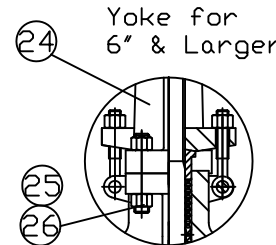
TITLE: CAST STEEL GATE VALVE CLASS 900 - API TRIM 8 - R,F,B OS&Y	
MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm
CLASS: 900	DATE: 01/15/15
SCALE: N.T.S.	FIG. No.: 90F-2N
SIZE: 2" - 10"	DRAWN BY: F.J.
CHK'D & APR'D BY: R.P.	REV: 1
DESIGNED: API 600, ANSI B16.34	DWG No.: 60GA120033-28

NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	WALL THICKNESS	FACE TO FACE	SEAT	AIR	HYDRO	BACK SEAT	HYDRO
	1/15/15	RELEASED	F.J.	R.P.	R.P.				API 600	ANSI B16.5	SEAT	AIR	HYDRO	BACK SEAT	HYDRO
									API 600, ANSI B16.34	ANSI B16.10	SEAT	AIR	HYDRO	BACK SEAT	HYDRO

Wm. E. Williams No. 90F62N Class 900 OS&Y Gate Valve ASTM A 216 WCB (API Trim 12) NACE



ITEM	NAME	MATERIAL	SPECIFICATION	NOTE
1	BODY	CAST STEEL	ASTM A216-WCB	NACE
2	BODY RING	CARBON STEEL	ASTM A105+HF	
3	GATE	CAST STEEL	ASTM A216-WCB+316	
4	STEM	STAINLESS STEEL	ASTM A182-F316	
5	GASKET RING JOIN	STEEL	08F	
6	BONNET	CAST STEEL	ASTM A216-WCB	
7	BACKSEAT	STAINLESS STEEL	ASTM A276-316	
8	PACKING CUSHION	STAINLESS STEEL	ASTM A276-410	
9	PACKING RING	INCONEL WIRE WITH GRAPHITE		
10	GLAND	STAINLESS STEEL	ASTM A276-410	
11	GLAND FLANGE	CAST STEEL	ASTM A216-WCB	
12	STEM NUT	NODULAR CAST IRON	ASTM A439 D-2	
13	GLAND NUT	CARBON STEEL	ASTM A29-1035	
14	HANDWHEEL	NODULAR CAST IRON		
15	HANDWHEEL NUT	CARBON STEEL	ASTM A29-1035	
16	EYE BOLT	STEEL	ASTM A193-B7M	
17	EYE BOLT NUT	STEEL	ASTM A194-2HM	
18	BONNET BOLT	STEEL	ASTM A193-B7M	
19	BONNET NUT	STEEL	ASTM A194-2HM	
20	NAMEPLATE	STAINLESS STEEL	304SS	
21	RIVET	STAINLESS STEEL	304SS	
22	PIN	CARBON STEEL	ASTM A29-1035	
23	SCREW	CARBON STEEL		
24	YOKE	CAST STEEL	ASTM A216-WCB	
25	YOKE BOLT	STEEL	ASTM A193-B7M	
26	YOKE NUT	STEEL	ASTM A194-2HM	
27	BEARING	STEEL		



NOTE:

1. FLEXIBLE WEDGE

SIZE	d	A	B	C	D	n	E	F	H	W	S _b
2"	47	368	38.5	216	165	8	26	92	405	250	19.1
2.5"	57	419	41.5	244	190.5	8	29	105	483	300	22.5
3"	73	381	38.5	241	190.5	8	26	127	523	350	19.5
4"	98	457	44.5	292	234.9	8	32	157	555	350	21.3
6"	146	610	56	381	317.5	12	32	216	759	500	26.2
8"	190	737	63.5	470	393.7	12	39	270	883	640	31.8
10"	238	838	70	546	469.9	16	39	324	1068	720	37

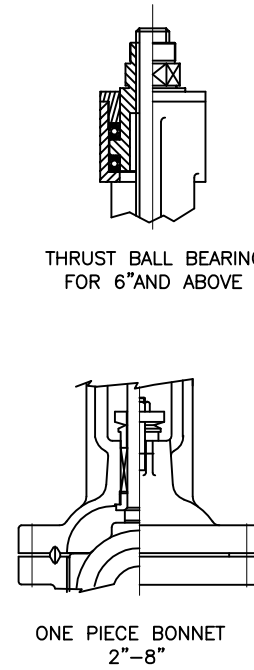
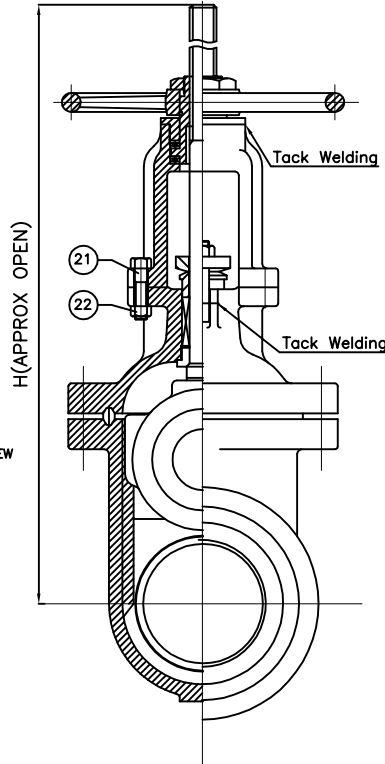
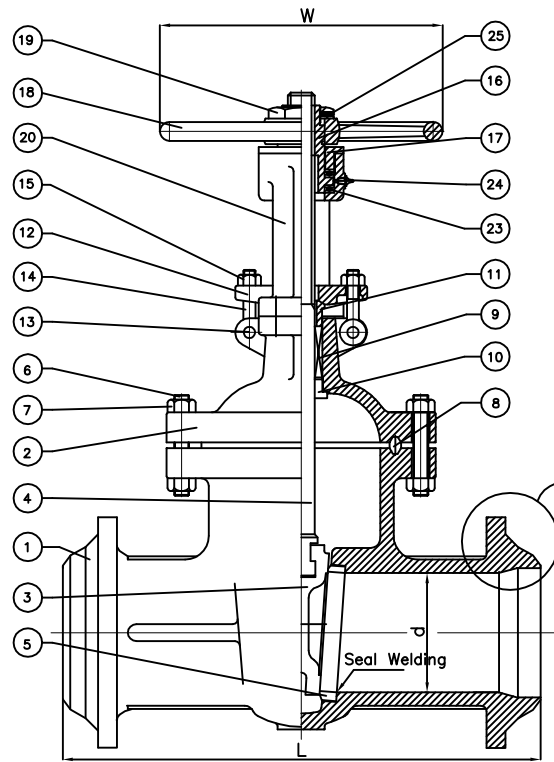
Remark: Larger sizes available upon request

NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm			
							DIM.OF FLANGE	ANSI B16.5	SHELL	HYDRO	3350PSI	CLASS: 900	DATE: 01/16/15	SCALE: N.T.S.
							FACE TO FACE	ANSI B16.10	SEAT	AIR	80PSI	SIZE: 2" - 10"		FIG. No.: 90F-62N
							WALL THICKNESS	API 600	BACK SEAT	HYDRO	2450PSI	DRAWN BY: F.J.		
								API 600, ANSI B16.34	NACE MR 0175	CHK'D & APR'D BY: R.P.	REV: 1	DWG No.: 60GA120038-28		

WILLIAM E. VALVE CORPORATION
 38-52 REVIEW AVENUE
 LONG ISLAND CITY, NY 11101
 TEL: 718-392-1660
 FAX: 718-725-5106

TITLE: CAST STEEL GATE VALVE
 CLASS 900 - API TRIM 12 - R.F.B,B OS&Y

Wm. E. Williams No. 90W2N Class 900 BW OS&Y Gate Valve ASTM A 216 WCB (API Trim 8) NACE



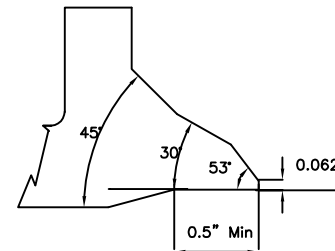
BILL OF MATERIALS			
NO.	PART NAME	MATERIALS	Q'TY
1	BODY	A216 Gr WCB	1
2	BONNET	A216 Gr WCB	1
3	WEDGE	A216 Gr WCB W/13Cr Welding	1
4	STEM	A479 Gr 410 (13Cr)	1
5	SEAT RING	A105N + HF	2
6	BONNET BOLT	A193 Gr B7M	1SET
7	BONNET NUT	A194 Gr 2HM	1SET
8	GASKET	METAL	1
9	PACKING	GRAPHITE WITH CORROSION INHIBITOR AND DIE FORMED RINGS	1SET
10	BACK SEAT	A479 Gr 410	1
11	GLAND RING	A479 Gr 410	1
12	GLAND FLANGE	WCB	1
13	GLAND BOLT PIN	A105N	2
14	GLAND BOLT	A193 Gr B7M	2
15	GLAND NUT	A194 Gr 2HM	2
16	YOKE SLEEVE	A439 Gr D2C	1
17	SLEEVE NUT	WCB	1
18	HAND WHEEL	A197	1
19	HANDLE NUT	WCB	1
20	YOKE	A216 Gr WCB	1
21	YOKE BOLT	A193 Gr B7M	4
22	YOKE BOLT NUT	A194 Gr 2HM	4
23	BEARING	STEEL	2
24	NIPPLE	STEEL	1
25	SET SCREW	STEEL	1

NOTE:

1. SPECIFY PIPE SCHEDULE No. REQUIRED.
2. FLEXIBLE WEDGE

SIZE	d	L	H	W
2.00	1.88	14.50	26.00	10.25
3.00	2.88	15.00	26.37	11.50
4.00	3.88	18.00	30.00	14.00
6.00	5.75	24.00	40.75	20.00
8.00	7.50	29.00	51.00	24.00
10.00	9.38	33.00	61.00	27.00
12.00	11.12	38.00	69.50	31.50
14.00	12.25	40.50	77.00	35.50
16.00	14.00	44.50	82.75	43.00

*Other size available upon request.



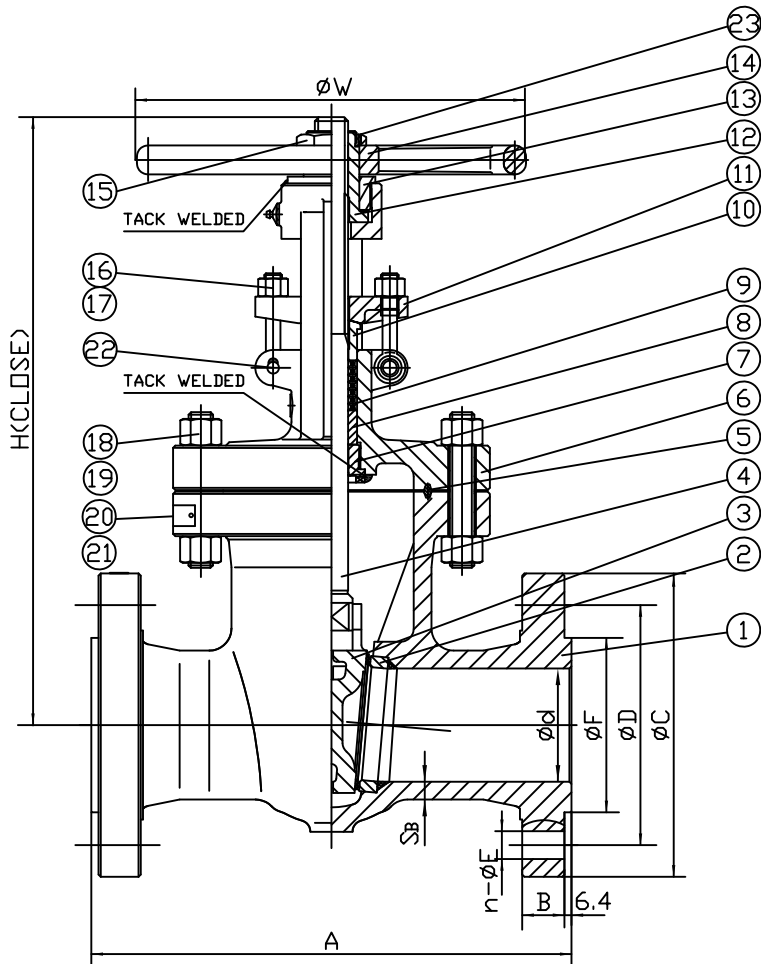
A-VIEW

WILLIAM E. WILLIAMS VALVE CORPORATION
 38-52 REVIEW AVENUE, LONG ISLAND CITY, NY 11101
 TEL: 718-392-1660 FAX: 718-729-5166
 WWW.WILLIAMSVALVE.COM

TITLE: CAST STEEL GATE VALVE
 CLASS 900 - API TRIM 8 - B, B OS&Y, BUTTWELD END

					MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm
					BUTTWELDING END	ANSI B16.25	SHELL HYDRO	3350PSI	SCALE: N.T.S.
					FACE TO FACE	ANSI B16.10	SEAT AIR	80PSI	FIG. No.: 90W-2N
					WALL THICKNESS	API 600	BACK SEAT HYDRO	24500PSI	
Δ	1/1/12	ISSUED FOR PROPOSAL			DESIGNED	API 600, ANSI B16.34	NACE MR 0175	DRAWN BY: F.J.	
NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D			CHK'D & APR'D BY: R.P.	REV: 1
									DWG No.: 60GA120061

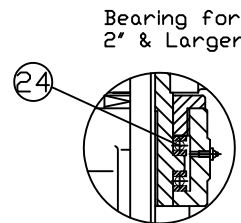
Wm. E. Williams No. 150F2N Class 1500 RF OS&Y Gate Valve ASTM A216 WCB (API Trim 8) NACE



ITEM	NAME	MATERIAL	SPECIFICATION	NOTE
1	BODY	CAST STEEL	ASTM A216-WCB	
2	BODY RING	CARBON STEEL	ASTM A105+HF	
3	GATE	CAST STEEL	ASTM A216-WCB+13%Cr	
4	STEM	STAINLESS STEEL	ASTM A182-F6a	
5	GASKET,RING JOINT	STEEL	08F	
6	BONNET	CAST STEEL	ASTM A216-WCB	
7	BACKSEAT	STAINLESS STEEL	ASTM A276-410	
8	PACKING CUSHION	STAINLESS STEEL	ASTM A276-410	
9	PACKING RING	INCONEL WIRE WITH GRAPHITE		
10	GLAND	STAINLESS STEEL	ASTM A276-410	
11	GLAND FLANGE	CAST STEEL	ASTM A216-WCB	NACE
12	STEM NUT	NODULAR CAST IRON	ASTM A439 D-2	
13	GLAND NUT	CARBON STEEL	ASTM A29-1035	
14	HANDWHEEL	NODULAR CAST IRON		
15	HANDWHEEL NUT	CARBON STEEL	ASTM A29-1035	
16	EYE BOLT	STEEL	ASTM A193-B7M	
17	EYE BOLT NUT	STEEL	ASTM A194-2HM	
18	BONNET BOLT	STEEL	ASTM A193-B7M	
19	BONNET NUT	STEEL	ASTM A194-2HM	
20	NAMEPLATE	STAINLESS STEEL	304SS	
21	RIVET	STAINLESS STEEL	304SS	
22	PIN	CARBON STEEL	ASTM A29-1035	
23	SCREW	CARBON STEEL		
24	BEARING	STEEL		

NOTE:

1. FLEXIBLE WEDGE



SIZE	d	A	B	C	D	n	E	F	H	W	S _B
2"	47	368	38.5	216	165.1	8	26	92	405	250	19.1
3"	70	470	48	267	203.2	8	32	127	510	350	24
4"	92	546	54	311	241.3	8	35	157	557	400	28.7
6"	136	705	83	394	317.5	12	39	216	824	560	38.1

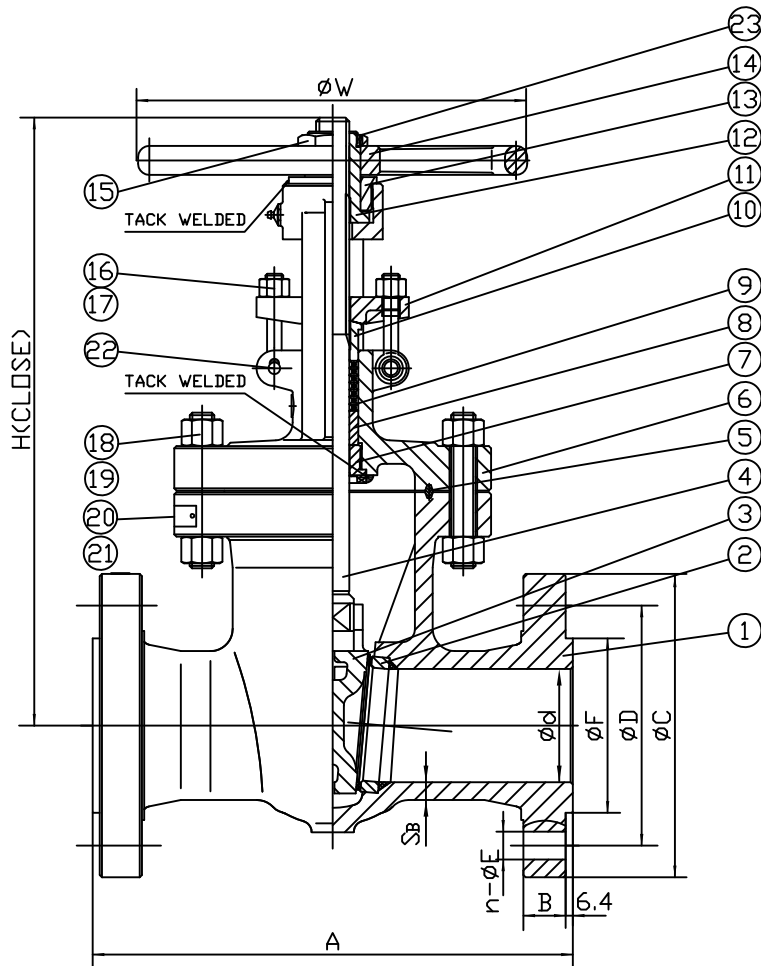
Remark: Larger sizes available upon request

WILLIAM E. WILLIAMS VALVE CORPORATION
 38-52 REVIEW AVENUE LONG ISLAND CITY, NY 11101
 TEL: 718-392-1660 FAX: 718-729-5106

TITLE: CAST STEEL GATE VALVE
 CLASS 1500 - API TRIM 8 - R,F B,B OS&Y

NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm	
							DIM.OF FLANGE	ANSI B16.5	SHELL HYDRO 5598PSI	CLASS: 1500	DATE: 03/05/15	SCALE: N.T.S.
							FACE TO FACE	ANSI B16.10	SEAT AIR 80PSI	SIZE: 2" - 6"		FIG.No.: 150F-2N
							WALL THICKNESS	API 600	BACK SEAT HYDRO 4100PSI	DRAWN BY: F.J.		
									NACE MR 0175	CHK'D & APR'D BY: R.P.	REV: 1	DWG No.: 60GA120058-28

Wm. E. Williams No. 150F62N Class 1500 RF OS&Y Gate Valve ASTM A216 WCB (API Trim 12) NACE

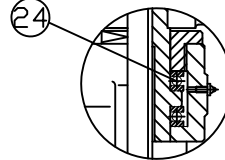


ITEM	NAME	MATERIAL	SPECIFICATION	NOTE
1	BODY	CAST STEEL	ASTM A216-WCB	NACE
2	BODY RING	CARBON STEEL	ASTM A105+HF	
3	GATE	CAST STEEL	ASTM A216-WCB+316	
4	STEM	STAINLESS STEEL	ASTM A182-F316	
5	GASKET, RING JOINT	STEEL	08F	
6	BONNET	CAST STEEL	ASTM A216-WCB	
7	BACKSEAT	STAINLESS STEEL	ASTM A276-316	
8	PACKING CUSHION	STAINLESS STEEL	ASTM A276-410	
9	PACKING RING	INCONEL WIRE WITH GRAPHITE		
10	GLAND	STAINLESS STEEL	ASTM A276-410	
11	GLAND FLANGE	CAST STEEL	ASTM A216-WCB	
12	STEM NUT	NODULAR CAST IRON	ASTM A439 D-2	
13	GLAND NUT	CARBON STEEL	ASTM A29-1035	
14	HANDWHEEL	NODULAR CAST IRON		
15	HANDWHEEL NUT	CARBON STEEL	ASTM A29-1035	
16	EYE BOLT	STEEL	ASTM A193-B7M	
17	EYE BOLT NUT	STEEL	ASTM A194-2HM	
18	BONNET BOLT	STEEL	ASTM A193-B7M	
19	BONNET NUT	STEEL	ASTM A194-2HM	
20	NAMEPLATE	STAINLESS STEEL	304SS	
21	RIVET	STAINLESS STEEL	304SS	
22	PIN	CARBON STEEL	ASTM A29-1035	
23	SCREW	CARBON STEEL		
24	BEARING	STEEL		

NOTE:

1. FLEXIBLE WEDGE

Bearing for 2" & Larger



SIZE	d	A	B	C	D	n	E	F	H	W	S _B
2"	47	368	38.5	216	165.1	8	26	92	405	250	19.1
3"	70	470	48	267	203.2	8	32	127	510	350	24
4"	92	546	54	311	241.3	8	35	157	557	400	28.7
6"	136	705	83	394	317.5	12	39	216	824	560	38.1

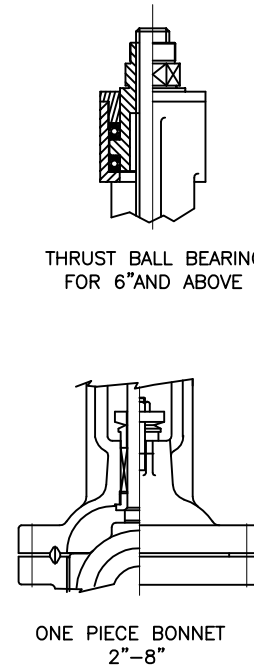
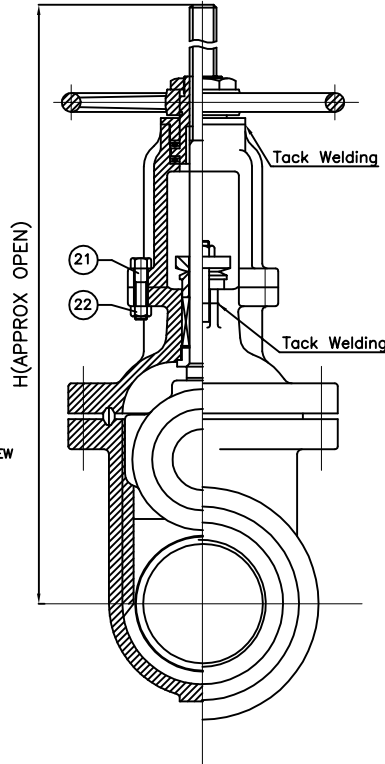
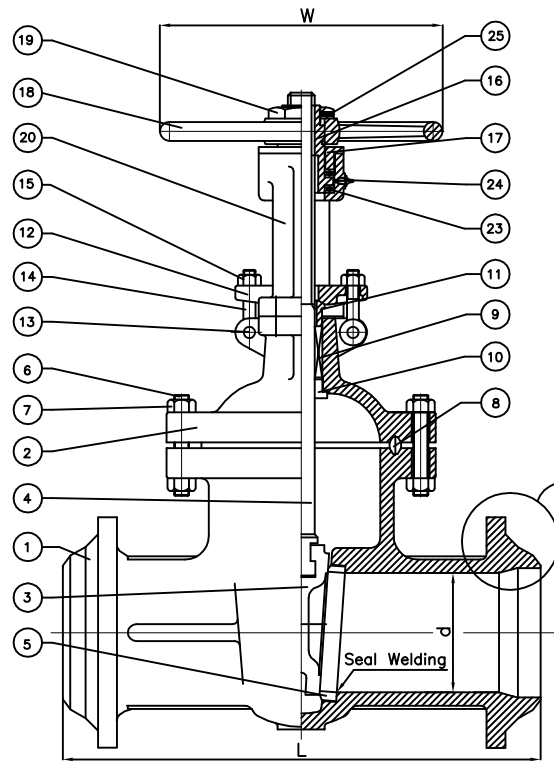
Remark: Larger sizes available upon request

WILLIAM E. WILLIAMS VALVE CORPORATION
 38-52 REVIEW AVENUE LONG ISLAND CITY, NY 11101
 TEL: 718-399-1660 FAX: 718-729-5106
 WWW.WILLIAMSVALVE.COM

TITLE: CAST STEEL GATE VALVE
 CLASS 1500 - API TRIM 12 - R,F,B,B OS&Y

NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm
							DIM.OF FLANGE	ANSI B16.5	SHELL	HYDRO	5598PSI
							FACE TO FACE	ANSI B16.10	SEAT	AIR	80PSI
							WALL THICKNESS	API 600	BACK SEAT	HYDRO	4100PSI
											SCALE: N.T.S.
											FIG. No.: 150F-62N
											DWG No.: 60GA120063-28

Wm. E. Williams No. 150W2N Class 1500 BW OS&Y Gate Valve ASTM A 216 WCB (API Trim 8) NACE



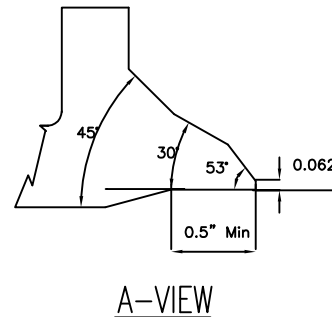
BILL OF MATERIALS			
NO.	PART NAME	MATERIALS	Q'TY
1	BODY	A216 Gr WCB	1
2	BONNET	A216 Gr WCB	1
3	WEDGE	A216 Gr WCB W/13Cr Welding	1
4	STEM	A479 Gr 410 (13Cr)	1
5	SEAT RING	A105N + HF	2
6	BONNET BOLT	A193 Gr B7M	1SET
7	BONNET NUT	A194 Gr 2HM	1SET
8	GASKET	METAL	1
9	PACKING	GRAPHITE WITH CORROSION INHIBITOR AND DIE FORMED RINGS	1SET
10	BACK SEAT	A479 Gr 410	1
11	GLAND RING	A479 Gr 410	1
12	GLAND FLANGE	WCB	1
13	GLAND BOLT PIN	A105N	2
14	GLAND BOLT	A193 Gr B7M	2
15	GLAND NUT	A194 Gr 2HM	2
16	YOKE SLEEVE	A439 Gr D2C	1
17	SLEEVE NUT	WCB	1
18	HAND WHEEL	A197	1
19	HANDLE NUT	WCB	1
20	YOKE	A216 Gr WCB	1
21	YOKE BOLT	A193 Gr B7M	4
22	YOKE BOLT NUT	A194 Gr 2HM	4
23	BEARING	STEEL	2
24	NIPPLE	STEEL	1
25	SET SCREW	STEEL	1

NOTE:

1. SPECIFY PIPE SCHEDULE No. REQUIRED.
2. FLEXIBLE WEDGE

SIZE	d	L	H	W
2.00	1.88	14.50	21.50	11.50
3.00	2.75	18.50	27.12	14.00
4.00	3.62	21.50	31.50	20.00
6.00	5.38	27.75	45.00	24.00
8.00	7.00	32.75	53.50	27.00
10.00	8.75	39.00	65.00	35.50
12.00	10.38	44.50	74.00	43.00
14.00	11.38	49.50	83.50	51.00
16.00	13.00	54.50	88.00	63.00

*Larger sizes available upon request.

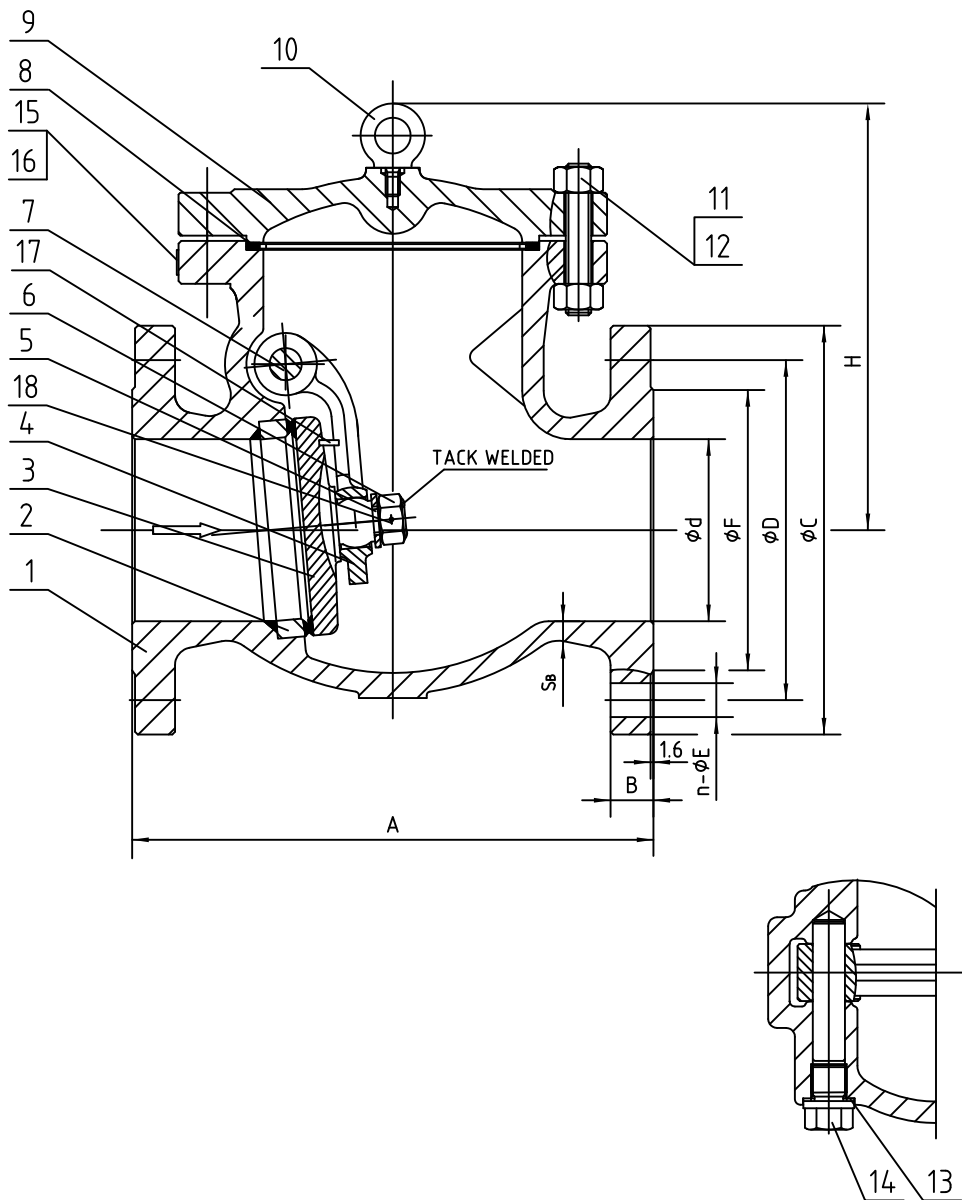


WILLIAM E. WILLIAMS VALVE CORPORATION
 38-52 REVIEW AVENUE, LONG ISLAND CITY, NY 11101
 TEL: 718-392-1660 FAX: 718-729-5166
 WWW.WILLIAMSVALVE.COM

TITLE: CAST STEEL GATE VALVE
 CLASS 1500 - API TRIM 8 - B,B OS&Y, BUTTWELD END

					MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm
					BUTTWELDING END	ANSI B16.25	SHELL HYDRO	5598PSI	SCALE: N.T.S.
					FACE TO FACE	ANSI B16.10	SEAT AIR	80PSI	FIG. No.: 150W-2N
					WALL THICKNESS	API 600	BACK SEAT HYDRO	4100PSI	
NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	API 600, ANSI B16.34	NACE MR 0175	CHK'D & APR'D BY: R.P.
									REV: 1
									DWG No.: 60GA120062

Wm. E. Williams No. 151F2N Class 150 RF Swing Check Valve A216 WCB (API Trim 8) NACE



ITEM	NAME	MATERIAL	SPECIFICATION	NOTE
1	BODY	CAST STEEL	ASTM A216-WCB	NACE
2	BODY RING	CARBON STEEL	ASTM A105+HF	
3	DISC	CARBON STEEL	ASTM A105+13%Cr	
4	HINGE	CAST STEEL	ASTM A216-WCB	
5	GASKET	STAINLESS STEEL	ASTM A276-410	
6	NUT	STAINLESS STEEL	ASTM A276-410	
7	PIN	STAINLESS STEEL	ASTM A276-410	
8	GASKET		SS304+GRAPHITE	
9	BONNET	CAST STEEL	ASTM A216-WCB	
10	EYEBOLT	CARBON STEEL	ASTM A29-1035	
11	NUT	STEEL	ASTM A194-2HM	
12	BOLT	STEEL	ASTM A193-B7M	
13	GASKET	STAINLESS STEEL	ASTM A276-304	
14	PLUG	STAINLESS STEEL	ASTM A276-410	
15	NAMEPLATE	STAINLESS STEEL	304SS	
16	RIVET	STAINLESS STEEL	304SS	
17	PIN	CARBON STEEL	ASTM A29-1020	
18	PIN	STAINLESS STEEL	316SS	

SIZE	d	A	B	C	D	n	E	F	H	S _b
2"	51	203	16	152	120.5	4	19	92	137	9
2-1/2"	64	216	17.5	178	139.5	4	19	105	157	9.5
3"	76	241	19	190	152.5	4	19	127	170	10.3
4"	102	292	24	229	190.5	8	19	157	229	11.1
5"	127	330	24	254	216	8	22	186	269	11.9
6"	152	356	26	279	241.5	8	22	216	273	11.9
8"	203	495	29	343	298.5	8	22	270	341	12.7
10"	254	622	31	406	362	12	25	324	403	14.3
12"	305	698	32	483	432	12	25	381	471	15.8
14"	337	787	35	533	476	12	29	413	510	16.6
16"	387	864	37	597	540	16	29	470	580	17.5
18"	438	978	40	635	578	16	32	533	605	18.2
20"	489	978	43	699	635	20	32	584	632	19
22"	540	1067	46	749.3	692.2	20	35	641.4	712	20
24"	591	1295	48	813	749.5	20	35	692	744	20.6

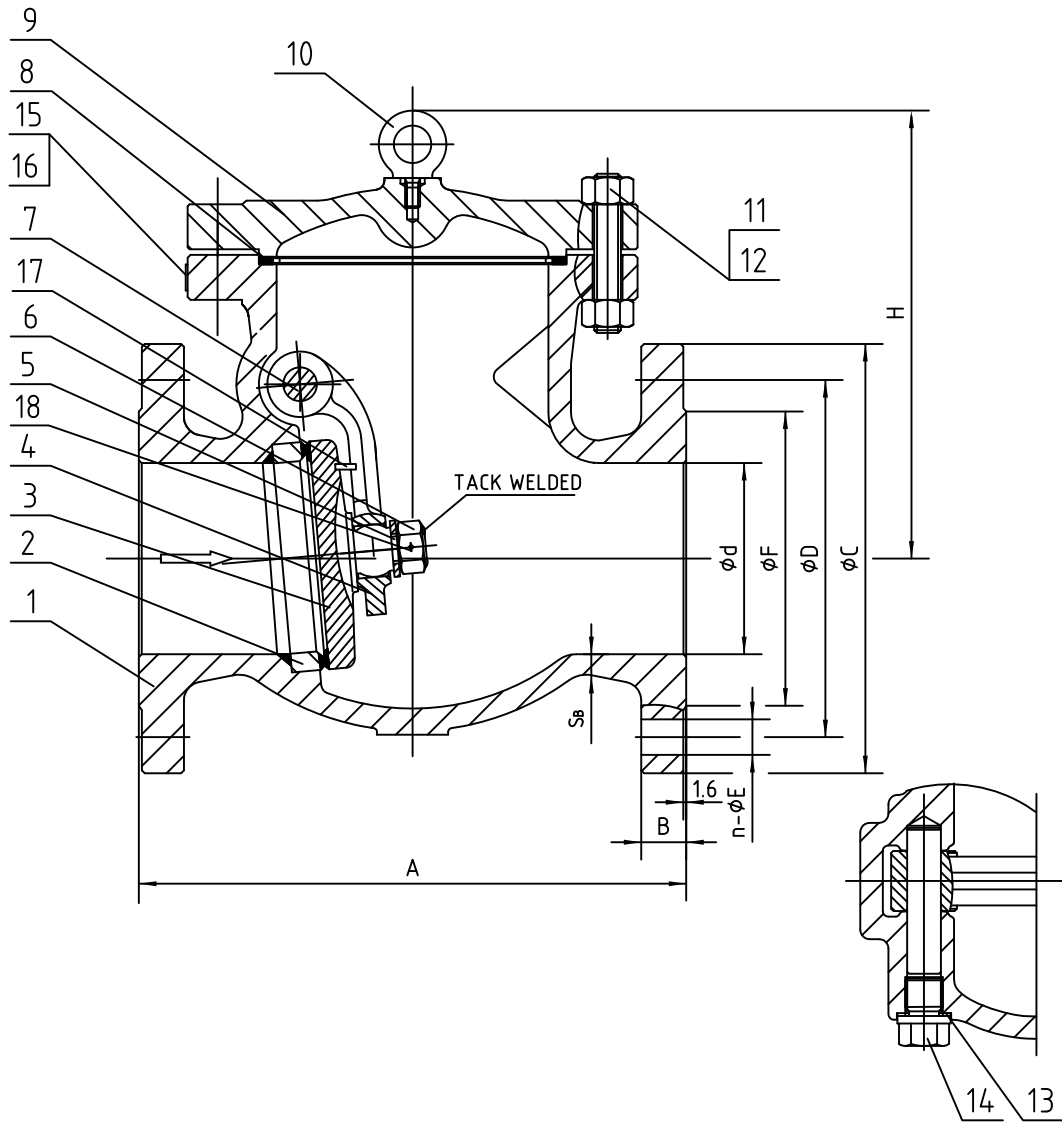
WILLIAM E. WILLIAMS VALVE CORPORATION

38-52 REVIEW AVENUE LONG ISLAND CITY, NY 11101 TEL: 718-392-1660 FAX: 718-729-5135

TITLE: CAST STEEL SWING CHECK VALVE CLASS 150 - API TRIM 8 - BC. RF

NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm
							DIM.OF FLANGE	ANSI B16.5	SHELL	HYDRO	450PSI
							FACE TO FACE	ANSI B16.10	SEAT	AIR	N/A
							WALL THICKNESS	ANSI B16.34	HPC SEAT	HYDRO	315PSI
							DESIGNED	API 594, ANSI B16.34	NACE MR0175	CHK'D & APR'D BY: R.P.	REV: 1
										DATE: 03/31/15	SCALE: N.T.S.
										SIZE: 2" - 24"	FIG. No.: 151F-2N
										DRAWN BY: F.J.	DWG No.: 60SC120089-28

Wm. E. Williams No. 151F62N Class 150 RF Swing Check Valve A216 WCB (API Trim 12) NACE



ITEM	NAME	MATERIAL	SPECIFICATION	NOTE
1	BODY	CAST STEEL	ASTM A216-WCB	NACE
2	BODY RING	CARBON STEEL	ASTM A105+HF	
3	DISC	CARBON STEEL	ASTM A105+316	
4	HINGE	CAST STEEL	ASTM A216-WCB	
5	GASKET	STAINLESS STEEL	ASTM A276-316	
6	NUT	STAINLESS STEEL	ASTM A276-316	
7	PIN	STAINLESS STEEL	ASTM A276-316	
8	GASKET		SS316+GRAPHITE	
9	BONNET	CAST STEEL	ASTM A216-WCB	
10	EYEBOLT	CARBON STEEL	ASTM A29-1035	
11	NUT	STEEL	ASTM A194-2HM	
12	BOLT	STEEL	ASTM A193-B7M	
13	GASKET	STAINLESS STEEL	ASTM A276-304	
14	PLUG	STAINLESS STEEL	ASTM A276-410	
15	NAMEPLATE	STAINLESS STEEL	304SS	
16	RIVET	STAINLESS STEEL	304SS	
17	PIN	CARBON STEEL	ASTM A29-1020	
18	PIN	STAINLESS STEEL	316SS	

SIZE	d	A	B	C	D	n	E	F	H	Sb
2"	51	203	16	152	120.5	4	19	92	137	9
2-1/2"	64	216	17.5	178	139.5	4	19	105	157	9.5
3"	76	241	19	190	152.5	4	19	127	170	10.3
4"	102	292	24	229	190.5	8	19	157	229	11.1
5"	127	330	24	254	216	8	22	186	269	11.9
6"	152	356	26	279	241.5	8	22	216	273	11.9
8"	203	495	29	343	298.5	8	22	270	341	12.7
10"	254	622	31	406	362	12	25	324	403	14.3
12"	305	698	32	483	432	12	25	381	471	15.8
14"	337	787	35	533	476	12	29	413	510	16.6
16"	387	864	37	597	540	16	29	470	580	17.5
18"	438	978	40	635	578	16	32	533	605	18.2
20"	489	978	43	699	635	20	32	584	632	19
22"	540	1067	46	749.3	692.2	20	35	641.4	712	20
24"	591	1295	48	813	749.5	20	35	692	744	20.6

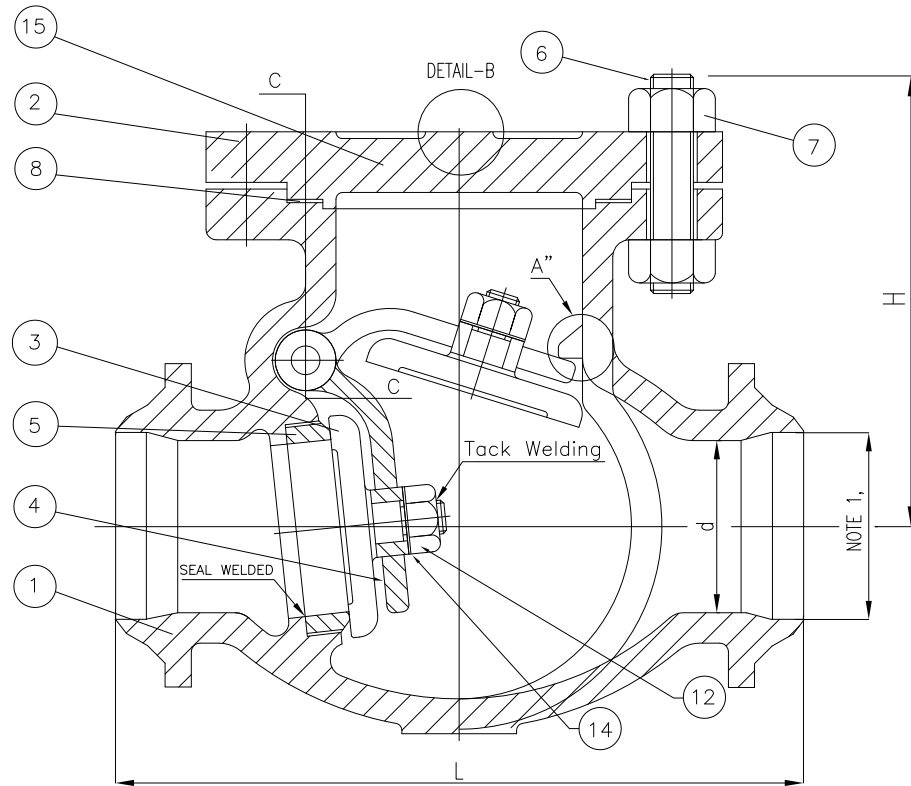
WILLIAM E. WILLIAMS VALVE CORPORATION
 38-52 REVIEW AVENUE LONG ISLAND CITY, NY 11101
 TEL: 718-992-1660 FAX: 718-729-5186

TITLE: CAST STEEL SWING CHECK VALVE CLASS 150 - API TRIM 12 - BC. RF

					MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm
					DIM. OF FLANGE	ANSI B16.5	SHELL HYDRO 450PSI	CLASS: 150	DATE: 03/31/15
					FACE TO FACE	ANSI B16.10	SEAT AIR N/A	SIZE: 2" - 24"	SCALE: N.T.S.
					WALL THICKNESS	ANSI B16.34	HPC SEAT HYDRO 315PSI	DRAWN BY: F.J.	FIG. No.: 151F62N
NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	API 594, ANSI B16.34	NACE MR0175	CHK'D & APR'D BY: R.P. REV: 1 DWG No.: 60SC120090-28

3/31/15 RELEASED F.J. R.P. R.P.

Wm. E. Williams No. 151W2N Class 150 BW Swing Check Valve A216 WCB (API Trim 8) NACE

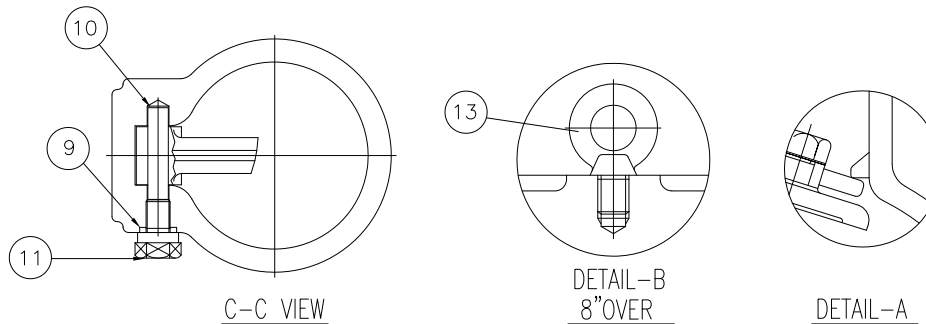


BILL OF MATERIALS			
NO.	PART NAME	MATERIAL	Q'TY
1	BODY	A216Gr WCB	1
2	COVER	A216Gr WCB	1
3	DISC	A216 GR WCB + 13Cr Faced	1
4	ARM	A216Gr WCB	1
5	SEAT RING	A105N + HF	1
6	COVER BOLT	A193Gr B7M	1SET
7	COVER NUT	A194Gr 2HM	1SET
8	GASKET	304+GRAPHITE	1
9	PIN GASKET	GRAPHITE	1
10	HINGE PIN	A479Gr 410	1
11	HINGE BOLT	A193Gr B7M	1
12	DISC NUT	A194Gr 2HM	1
13	EYE BOLT	A193Gr B7M	1
14	WASHER	STEEL	1
15	NAME PLATE	STAINLESS STEEL	1

NOTE:

1. SPECIFY PIPE SCHEDULE No. REQUIRED.

SIZE	d	L	H
2.00	2.00	8.00	5.50
2.50	2.50	8.50	6.25
3.00	3.00	9.50	6.87
4.00	4.00	11.50	8.12
5.00	5.00	13.00	9.00
6.00	6.00	14.00	9.87
8.00	8.00	19.50	11.62
10.00	10.00	24.50	13.00
12.00	12.00	27.50	14.87
14.00	13.25	31.00	15.87
16.00	15.25	34.00	18.25
18.00	17.25	38.50	22.00
20.00	19.25	38.50	24.00
24.00	23.25	51.00	28.50



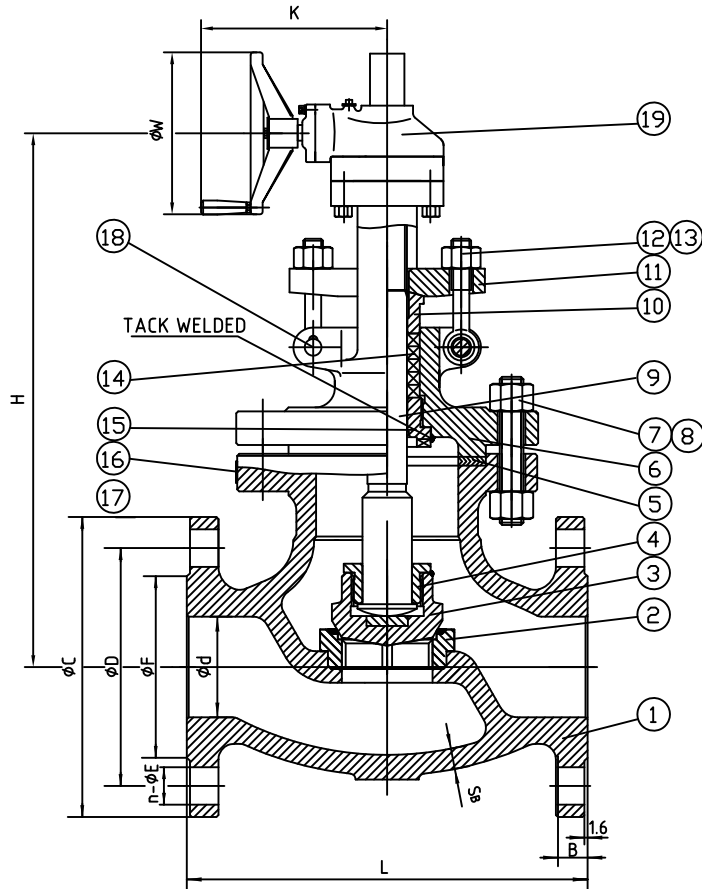
Remark: Larger sizes available upon request.

						MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm	
						BUTTWELD ENDS	ANSI B16.25	SHELL	HYDRO 450PSI	SCALE: N.T.S.	
						FACE TO FACE	ANSI B16.10	SEAT	AIR 80PSI	FIG. No.:	
						WALL THICKNESS	ANSI B16.34	BACK SEAT	HYDRO 315PSI	151W-2N	
NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	BS1868, ANSI B16.34	NACE MR 0175	CHK'D & APR'D BY: R.P.	REV: 1	DWG No.: 60SC120132

WILLIAM E. WILLIAMS VALVE CORPORATION
 38-52 REVIEW AVENUE, LONG ISLAND CITY, NY 11101
 TEL: 718-392-1660 FAX: 718-729-5106

TITLE: CAST STEEL SWING CHECK VALVE CLASS 150 - API TRIM 8 - BUTTWELD

Wm. E. Williams No. 152F2N GO Class 150 RF OS&Y Globe Valve ASTM A216 WCB (API Trim 8) NACE



ITEM	NAME	MATERIAL	SPECIFICATION	NOTE
1	BODY	CAST STEEL	ASTM A216-WCB	NACE
2	SEAT	CARBON STEEL	ASTM A105+HF	
3	DISC	CARBON STEEL	ASTM A105+13%Cr	
4	DISC COVER	STAINLESS STEEL	ASTM A276-410	
5	GASKET		SS304+GRAPHITE	
6	BONNET	CAST STEEL	ASTM A216-WCB	
7	BONNET BOLT	STEEL	ASTM A193-B7M	
8	BONNET NUT	STEEL	ASTM A194-2HM	
9	STEM	STAINLESS STEEL	ASTM A182-F6a	
10	GLAND	STAINLESS STEEL	ASTM A276-410	
11	GLAND FLANGE	CAST STEEL	ASTM A216-WCB	
12	EYE BOLT	STEEL	ASTM A193-B7M	
13	EYE BOLT NUT	STEEL	ASTM A194-2HM	
14	PACKING RING	GRAPHITE		
15	BACKSEAT BUSHING	STAINLESS STEEL	ASTM A276-410	
16	NAMEPLATE	STAINLESS STEEL	304SS	
17	RIVET	STAINLESS STEEL	304SS	
18	PIN	CARBON STEEL	ASTM A29-1035	
19	GEAR			

SIZE	A	B	C	D	n	E	F	H	W	K
6"	406	26	279	241.5	8	22	216	495	310	310
8"	495	29	343	298.5	8	22	270	592	460	345
10"	622	31	406	362	12	25	324	658	610	420
12"	698	32	483	432	12	25	381	852	610	420
14"	787	35	533	476	12	29	413	913	710	500
16"	914	37	597	540	16	29	470	1007	710	500
18"	978	40	635	578	16	32	533	1122	710	500
20"	978	43	699	635	20	32	584	1128	710	500
24"	1295	48	813	749.5	20	35	692	1320	800	605

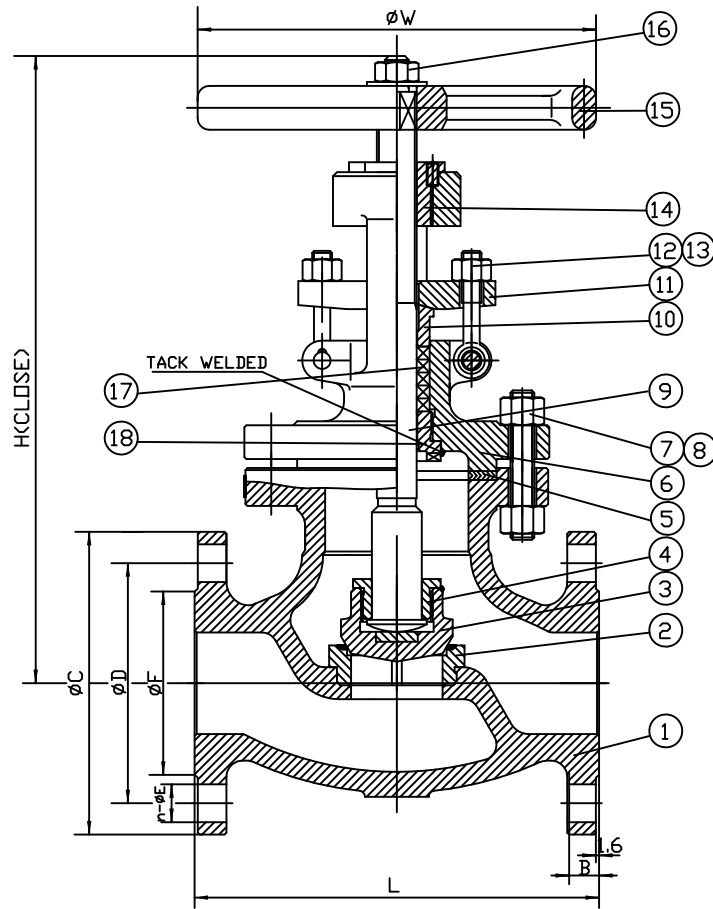
Remark: Larger sizes available upon request

WILLIAM E. WILLIAMS VALVE CORPORATION
 38-52 REVIEW AVENUE LONG ISLAND CITY, NY 11101
 TEL: 718-392-1660 FAX: 718-729-5106

TITLE: CAST STEEL GLOBE VALVE
 CLASS 150 - API TRIM 8 - GEAR OPERATED

NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm
							DIM.OF FLANGE	ANSI B16.5	SHELL HYDRO	450PSI	CLASS: 150
							FACE TO FACE	ANSI B16.10	SEAT AIR	N/A	DATE: 12/28/15
							WALL THICKNESS	BS1873	BACK SEAT HYDRO	315PSI	SCALE: N.T.S.
											FIG. No.: 152F-2N GO
											DWG No.: 60GL120122-28

Wm. E. Williams No. 152F2N Class 150 RF Globe Valve ASTM A 216 WCB (API Trim 8) NACE



ITEM	NAME	MATERIAL	SPECIFICATION	NOTE
1	BODY	CAST STEEL	ASTM A 216 WCB	NACE
2	SEAT	CARBON STEEL	ASTM A 105+HF	
3	DISC	CARBON STEEL	ASTM A 105+13%Cr	
4	DISC COVER	STAINLESS STEEL	ASTM A 479-410	
5	GASKET	SPIRAL WOUND	SS304+GRAPHITE	
6	BONNET	CAST STEEL	ASTM A 216 WCB	
7	BONNET BOLT	STEEL	ASTM A 193-B7M	
8	BONNET NUT	STEEL	ASTM A 194-2HM	
9	STEM	STAINLESS STEEL	ASTM A 182 F6a	
10	GLAND	STAINLESS STEEL	ASTM A 479-410	
11	GLAND FLANGE	CAST STEEL	ASTM A 216 WCB	
12	EYE BOLT	STEEL	ASTM A 193-B7M	
13	EYE BOLT NUT	STEEL	ASTM A 194-2HM	
14	STEM NUT	NODULAR CAST IRON	ASTM A 439 D-2	
15	HANDWHEEL	NODULAR CAST IRON		
16	HANDWHEEL NUT	CARBON STEEL	ASTM A 29-1035	
17	PACKING RING	INCONEL WIRE WITH GRAPHITE		
18	BACKSEAT BUSHING	STAINLESS STEEL	ASTM A 479-410	

SIZE	L	B	C	D	n	E	F	H	W
2"	203	16	152	120.5	4	19	92	320	200
3"	241	19	190	152.5	4	19	127	350	250
4"	292	24	229	190.5	8	19	157	441	300
6"	406	25.4	279	241.5	8	22	216	468	350
8"	495	29	343	298.5	8	22	270	542	400
10"	622	31	406	362	12	25	324	636	450
12"	698	32	483	432	12	25	381	820	560
14"	787	35	533	476	12	29	413	885	560
16"	914	37	597	540	16	29	470	878	640

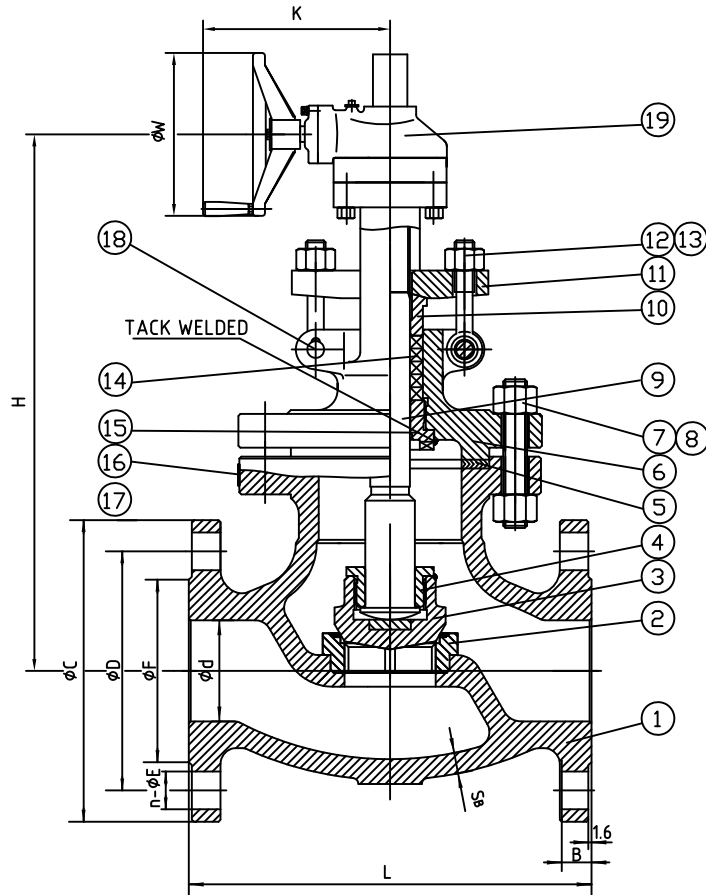
Remark: Larger sizes available upon request

NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	BS1873, ANSI B16.34	NACE MR 0175	CHK'D & APR'D BY: R.P.	REV: 1	DWG No.: 60GL120084-28
						MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm	
						DIM.OF FLANGE	ANSI B16.5	SHELL HYDRO 450PSI	CLASS: 150	DATE: 12/28/15	SCALE: N.T.S.
						FACE TO FACE	ANSI B16.10	SEAT AIR N/A	SIZE: 2" - 16"		FIG. No.: 152F-2N
						WALL THICKNESS	BS1873	BACK SEAT HYDRO 315PSI	DRAWN BY: F.J.		
	12/28/15	RELEASED	F.J.	R.P.	R.P.						

WILLIAM E. WILLIAMS VALVE CORPORATION
 38-52 REVIEW AVENUE LONG ISLAND CITY, NY 11101
 TEL: 718-392-1660 FAX: 718-729-5106
 WWW.WILLIAMSVALVE.COM

TITLE: CAST STEEL GLOBE VALVE
 CLASS 150 - API TRIM 8 - B,B R,F OS&Y

Wm. E. Williams No. 152F62N GO Class 150 RF OS&Y Globe Valve ASTM A216 WCB (API Trim 12) NACE



ITEM	NAME	MATERIAL	SPECIFICATION	NOTE
1	BODY	CAST STEEL	ASTM A216-WCB	NACE
2	SEAT	CARBON STEEL	ASTM A105+STL	
3	DISC	CARBON STEEL	ASTM A216-WCB+316	
4	DISC COVER	STAINLESS STEEL	ASTM A276-410	
5	GASKET		SS304+GRAPHITE	
6	BONNET	CAST STEEL	ASTM A216-WCB	
7	BONNET BOLT	STEEL	ASTM A193-B7M	
8	BONNET NUT	STEEL	ASTM A194-2HM	
9	STEM	STAINLESS STEEL	ASTM A182-F316	
10	GLAND	STAINLESS STEEL	ASTM A276-410	
11	GLAND FLANGE	CAST STEEL	ASTM A216-WCB	
12	EYE BOLT	STEEL	ASTM A193-B7M	
13	EYE BOLT NUT	STEEL	ASTM A194-2HM	
14	PACKING RING	GRAPHITE		
15	BACKSEAT BUSHING	STAINLESS STEEL	ASTM A276-410	
16	NAMEPLATE	STAINLESS STEEL	304SS	
17	RIVET	STAINLESS STEEL	304SS	
18	PIN	CARBON STEEL	ASTM A29-1035	
19	GEAR			

SIZE	L	B	C	D	n	E	F	H	W	K
6"	406	26	279	241.5	8	22	216	495	310	310
8"	495	29	343	298.5	8	22	270	592	460	345
10"	622	31	406	362	12	25	324	658	610	420
12"	698	32	483	432	12	25	381	852	610	420
14"	787	35	533	476	12	29	413	913	710	500
16"	914	37	597	540	16	29	470	1007	710	500
18"	978	40	635	578	16	32	533	1122	710	500
20"	978	43	699	635	20	32	584	1128	710	500
24"	1295	48	813	749.5	20	35	692	1320	800	605

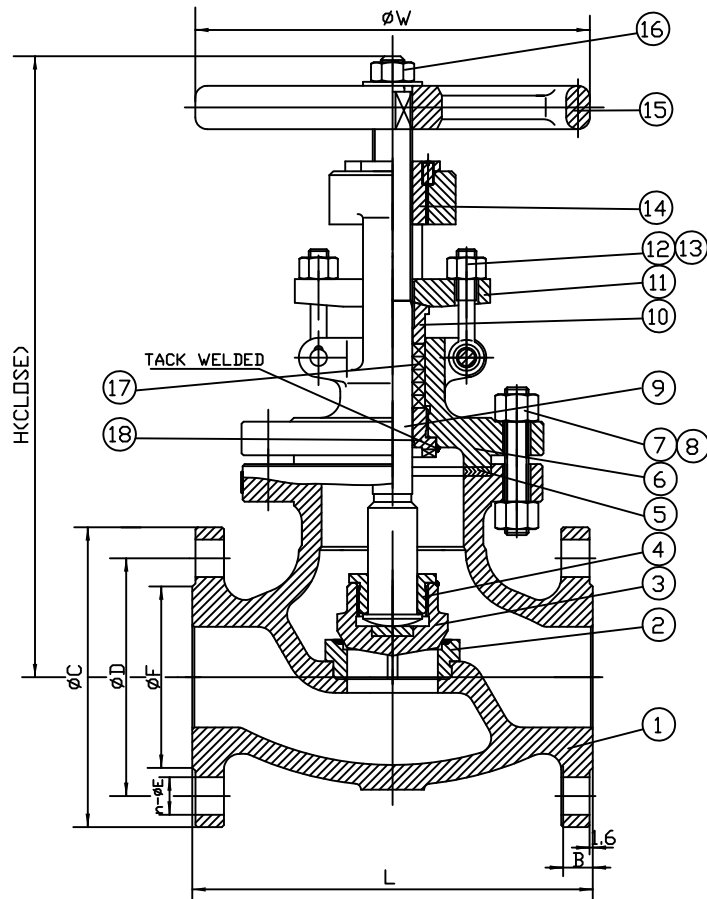
Remark: Larger sizes available upon request

							MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm	
							DIM.OF FLANGE	ANSI B16.5	SHELL HYDRO 450PSI	CLASS: 150	DATE: 12/28/15	SCALE: N.T.S.
							FACE TO FACE	ANSI B16.10	SEAT AIR N/A	SIZE: 6" - 24"	FIG. No.: 152F-62N GO	
							WALL THICKNESS	BS1873	BACK SEAT HYDRO 315PSI	DRAWN BY: F.J.		
NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	BS1873, ANSI B16.34	NACE MR 0175	CHK'D & APR'D BY: R.P.	REV: 1	DWG No.: 60GL120268-28	



TITLE: CAST STEEL GLOBE VALVE
CLASS 150 - API TRIM 12 - GEAR OPERATED

Wm. E. Williams No. 152F62N Class 150 RF Globe Valve ASTM A 216 WCB (API Trim 12) NACE



ITEM	NAME	MATERIAL	SPECIFICATION	NOTE
1	BODY	CAST STEEL	ASTM A 216 WCB	NACE
2	SEAT	CARBON STEEL	ASTM A105+HF	
3	DISC	CARBON STEEL	ASTM A216-WCB+316	
4	DISC COVER	STAINLESS STEEL	ASTM A 479-410	
5	GASKET	SPIRAL WOUND	SS304+GRAPHITE	
6	BONNET	CAST STEEL	ASTM A 216 WCB	
7	BONNET BOLT	STEEL	ASTM A 193-B7M	
8	BONNET NUT	STEEL	ASTM A 194-2HM	
9	STEM	STAINLESS STEEL	ASTM A182-F316	
10	GLAND	STAINLESS STEEL	ASTM A 479-410	
11	GLAND FLANGE	CAST STEEL	ASTM A 216 WCB	
12	EYE BOLT	STEEL	ASTM A 193-B7M	
13	EYE BOLT NUT	STEEL	ASTM A 194-2HM	
14	STEM NUT	NODULAR CAST IRON	ASTM A 439 D-2	
15	HANDWHEEL	NODULAR CAST IRON		
16	HANDWHEEL NUT	CARBON STEEL	ASTM A 29-1035	
17	PACKING RING	INCONEL WIRE WITH GRAPHITE		
18	BACKSEAT BUSHING	STAINLESS STEEL	ASTM A 479-410	

SIZE	L	B	C	D	n	E	F	H	W
2"	203	16	152	120.5	4	19	92	320	200
3"	241	19	190	152.5	4	19	127	350	250
4"	292	24	229	190.5	8	19	157	441	300
6"	406	25.4	279	241.5	8	22	216	468	350
8"	495	29	343	298.5	8	22	270	542	400
10"	622	31	406	362	12	25	324	636	450
12"	698	32	483	432	12	25	381	820	560
14"	787	35	533	476	12	29	413	885	560
16"	914	37	597	540	16	29	470	878	640

Remark: Larger sizes available upon request

NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm
							DIM.OF FLANGE	ANSI B16.5	SHELL	HYDRO	450PSI
							FACE TO FACE	ANSI B16.10	SEAT	AIR	N/A
							WALL THICKNESS	BS1873	BACK SEAT	HYDRO	315PSI
											SCALE: N.T.S.
											FIG. No.: 152F-62N
											DWG No.: 60GL20076-28

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TITLE: CAST STEEL GLOBE VALVE CLASS 150 - API TRIM 12 - B,B R,F OS&Y

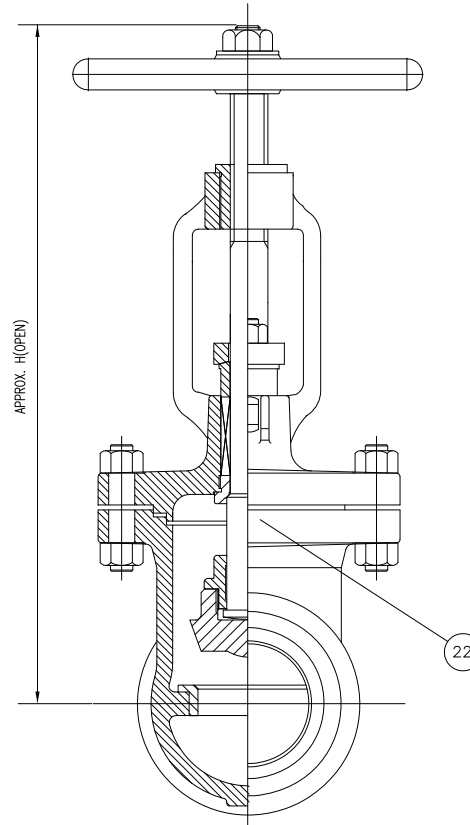
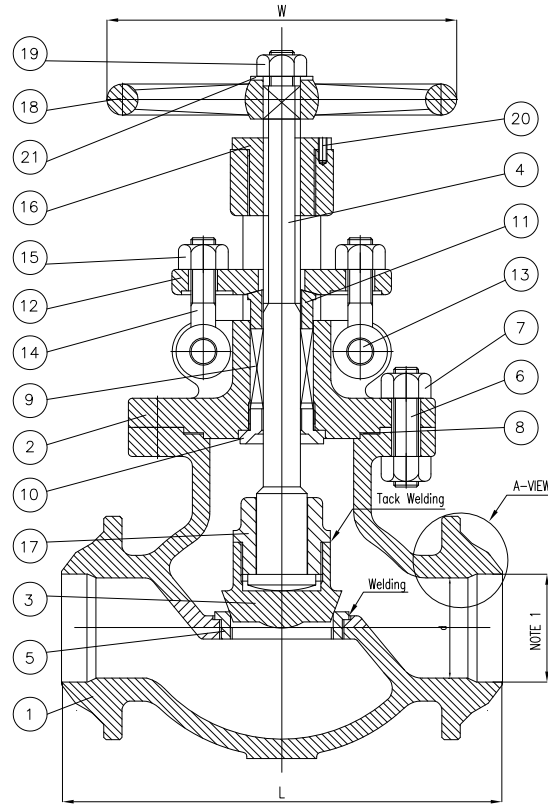
DATE: 12/28/15

DRAWN BY: F.J.

CHK'D & APR'D BY: R.P.

REV: 1

Wm. E. Williams No. 152W2N Class 150 BW Globe Valve ASTM A 216 WCB (API Trim 8) NACE

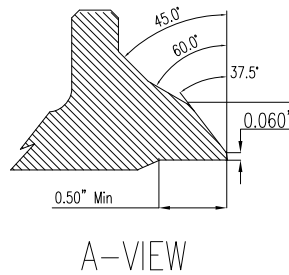


BILL OF MATERIALS			
NO.	PART NAME	MATERIALS	Q'TY
1	BODY	A216Gr WCB	1
2	BONNET	A216Gr WCB	1
3	DISC	A216Gr WCB + 13Cr Faced	1
4	STEM	A479 410	1
5	SEAT RING	A105N + HF	1
6	BONNET BOLT	A193Gr B7M	1SET
7	BONNET NUT	A194Gr 2HM	1SET
8	GASKET	304 + GRAPHITE	1
9	PACKING	GRAPHITE WITH CORROSION INHIBITOR AND DIE FORMED RINGS	1SET
10	BACK SEAT	A479Gr 410	1
11	GLAND RING	A479Gr 410	1
12	GLAND FLANGE	WCB	1
13	HINGE PIN	410	2
14	GLAND BOLT	A193Gr B7M	2
15	GLAND NUT	A194Gr 2HM	2
16	BONNET BUSH	A439Gr D2C	1
17	DISC NUT	A217Gr CA15	1
18	HAND WHEEL	A197	1
19	HANDLE NUT	A194Gr 2HM	1
20	SET SCREW	STEEL	1
21	WASHER	STEEL	1
22	NAME PLATE	STAINLESS STEEL	1

NOTE:
1. SPECIFY PIPE SCHEDULE No. REQUIRED.

VALVE SIZE	d	L	H	W
2.00	2.00	8.00	13.37	8.87
2.50	2.50	8.50	14.50	8.87
3.00	3.00	9.50	16.50	11.87
4.00	4.00	11.50	17.37	12.75
5.00	5.00	14.00	24.00	12.75
6.00	6.00	16.00	24.00	17.75
8.00	8.00	19.50	26.75	21.62
10.00	10.00	24.50	30.00	30.00
12.00	12.00	27.50	33.87	30.00
14.00	13.25	31.00	56.00	31.50
16.00	15.25	36.00	64.00	35.50

Remark: Larger sizes available upon request.

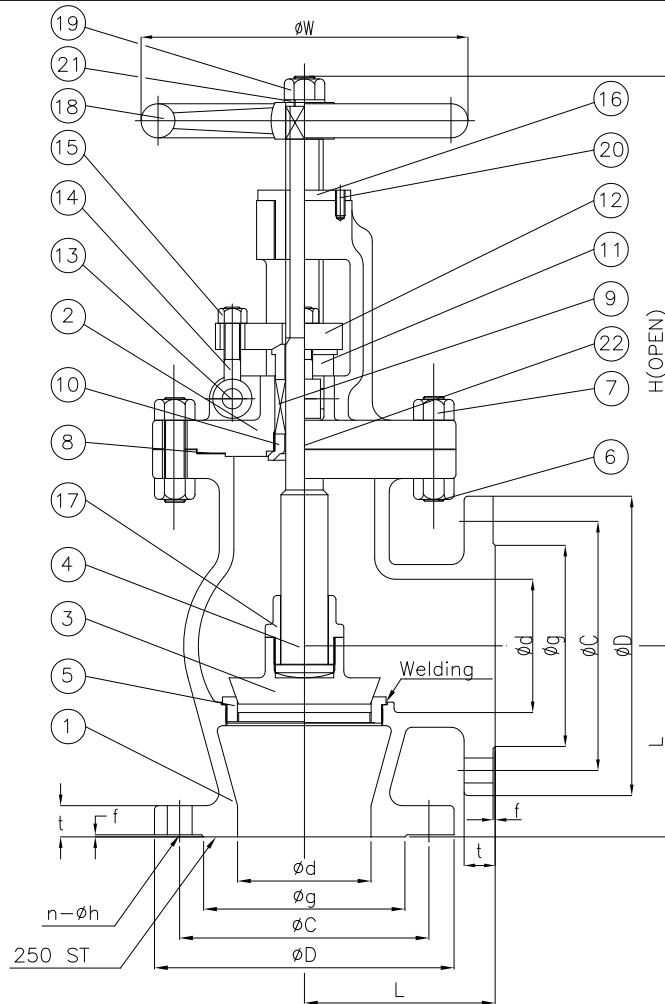


NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm
						BUTTWELDING END	ANSI B16.25	SHELL	HYDRO	450PSI
						FACE TO FACE	ANSI B16.10	SEAT	AIR	80PSI
						WALL THICKNESS	BS1873	BACK SEAT	HYDRO	315PSI
						DESIGNED	BS1873, ANSI B16.34	NACE MR 0175	CHK'D & APR'D BY: R.P.	REV: 1
									DATE: 01/01/12	SCALE: N.T.S.
									SIZE: 2" - 16"	FIG. No.: 152W-2N
									DRAWN BY: F.J.	DWG No.: 60GL120123

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TITLE: CAST STEEL GLOBE VALVE
 CLASS 150 - API TRIM 8 - B, B OS&Y BUTTWELD END

Wm. E. Williams No. 153F2 Class 150 RF Angle Valve ASTM A 216 WCB (API Trim 8)



BILL OF MATERIALS			
NO.	PART NAME	MATERIALS	Q'TY
1	BODY	A216Gr WCB	1
2	BONNET	A216Gr WCB	1
3	DISC	A216Gr WCB + 13Cr Faced	1
4	STEM	A479 410	1
5	SEAT RING	A105N + HF	1
6	BONNET BOLT	A193Gr B7	1SET
7	BONNET NUT	A194Gr 2H	1SET
8	GASKET	304 + GRAPHITE	1
9	PACKING	GRAPHITE WITH CORROSION INHIBITOR AND DIE FORMED RINGS	1SET
10	BACK SEAT	A479Gr 410	1
11	GLAND RING	A479Gr 410	1
12	GLAND FLANGE	WCB	1
13	HINGE PIN	410	2
14	GLAND BOLT	A193Gr B7	2
15	GLAND NUT	A194Gr 2H	2
16	BONNET BUSH	A439Gr D2C	1
17	DISC NUT	A217Gr CA15	1
18	HAND WHEEL	A197	1
19	HANDLE NUT	A194Gr 2H	1
20	SET SCREW	STEEL	1
21	WASHER	STEEL	1
22	NAME PLATE	STAINLESS STEEL	1

SIZE	d	L	D	C	g	t	f	n-h	H	W
2.00	2.00	4.00	6.00	4.75	3.63	0.625	0.060	4-0.75	13.37	8.87
2.50	2.50	4.25	7.00	5.50	4.13	0.689	0.060	4-0.75	14.50	8.87
3.00	3.00	4.75	7.50	6.00	5.00	0.750	0.060	4-0.75	16.50	11.87
4.00	4.00	5.75	9.00	7.50	6.87	0.937	0.060	8-0.75	17.37	12.75
5.00	5.00	7.00	10.00	8.50	7.32	0.937	0.060	8-0.87	24.00	12.75
6.00	6.00	8.00	11.00	9.50	8.50	1.000	0.060	8-0.87	24.00	17.75
8.00	8.00	9.75	13.50	11.75	10.62	1.125	0.060	8-0.87	26.75	21.62
10.00	10.00	12.25	16.00	14.25	12.75	1.187	0.060	8-1.00	30.00	30.00
12.00	12.00	13.75	19.00	17.00	15.00	1.250	0.060	8-1.00	33.87	30.00

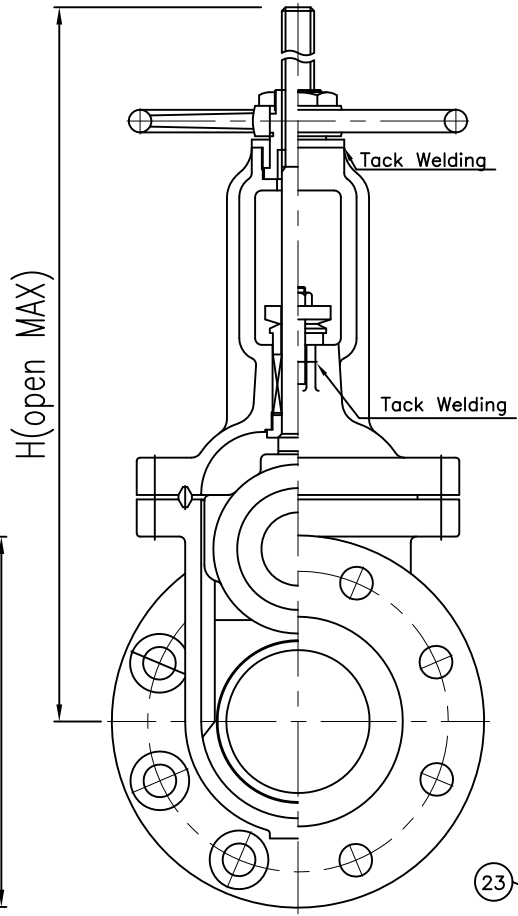
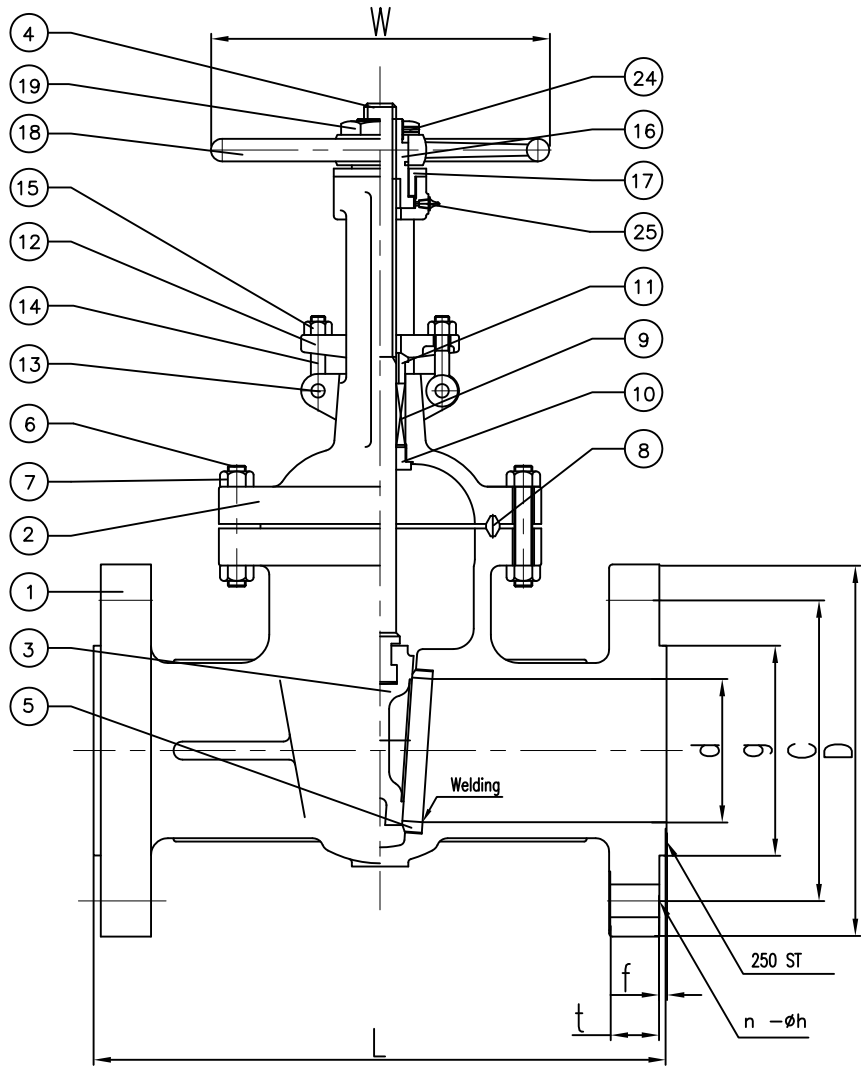
Remark: Larger sizes available upon request.

						MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm			
						DIM.OF FLANGE	ANSI B16.5	SHELL	HYDRO	450PSI	CLASS: 150	DATE: 09/17/13	SCALE: N.T.S.
						CENTER TO FACE	ANSI B16.10	SEAT	AIR	80PSI	SIZE: 2" - 12"	FIG. No.:	153F-2
						WALL THICKNESS	BS1873	BACK SEAT	HYDRO	315PSI	DRAWN BY: F.J.		
NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	BS1873, ANSI B16.34		CHK'D & APR'D BY: R.P.	REV: 1	DWG No.:	60AN120252	

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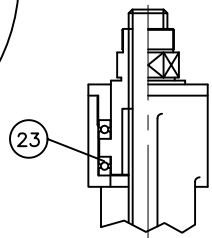
TITLE: CAST STEEL ANGLE GLOBE VALVE CLASS 150 - API TRIM 8 - B,B,R,F

Wm. E. Williams No. 250F2N Class 2500 RF OS&Y Gate Valve ASTM A216 WCB (API Trim 8) NACE

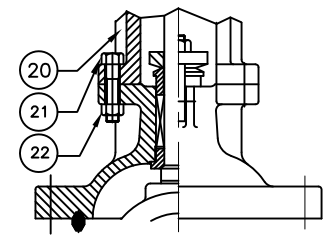


BILL OF MATERIALS			
NO.	PART NAME	MATERIALS	Q'TY
1	BODY	A216 Gr WCB	1
2	BONNET	A216 Gr WCB	1
3	DISC	A216 Gr WCB W/13Cr Face	1
4	STEM	A479 Gr 410 (13Cr)	1
5	SEAT RING	A105N + HF	2
6	BONNET BOLT	A193 Gr B7M	1SET
7	BONNET NUT	A194 Gr 2HM	1SET
8	GASKET	304 + GRAPHITE	1
9	PACKING	GRAPHITE WITH CORROSION INHIBITOR AND DIE FORMED RINGS	1SET
10	BACK SEAT	A479 Gr 410	1
11	GLAND RING	A479 Gr 410	1
12	GLAND FLANGE	WCB	1
13	HINGE PIN	A479 Gr 410	2
14	GLAND BOLT	A193 Gr B7M	2
15	GLAND NUT	A194 Gr 2HM	2
16	YOKE SLEEVE	A439 Gr D2C	1
17	SLEEVE NUT	A479 Gr 410	1
18	HAND WHEEL	A197	1
19	HANDLE NUT	A479 Gr 410	1
20	YOKE	A216 Gr WCB	1
21	YOKE BOLT	A193 Gr B7M	4
22	YOKE BOLT NUT	A194 Gr 2HM	4
23	BEARING	STEEL	2
24	SET SCREW	STEEL	1
25	GREASE NIPPLE	STEEL	1

NOTE:
1. FLEXIBLE WEDGE.



THRUST BALL BEARINGS
6" AND ABOVE



TWO PIECE BONNET
10" AND ABOVE

SIZE	d	L	D	C	g	t	f	n-h	H	W
2.00	1.50	17.75	9.25	6.75	5.25	2.00	0.250	8-1.14	24.88	12.00
3.00	2.25	22.75	12.00	9.00	6.62	2.62	0.250	8-1.37	36.00	20.00
4.00	2.87	26.50	14.00	10.75	8.00	3.62	0.250	8-1.62	41.50	20.00
6.00	4.37	36.00	19.00	14.50	11.00	4.25	0.250	8-2.12	57.00	24.00
8.00	5.75	40.25	21.75	17.25	13.37	5.00	0.250	12-2.12	63.38	24.00

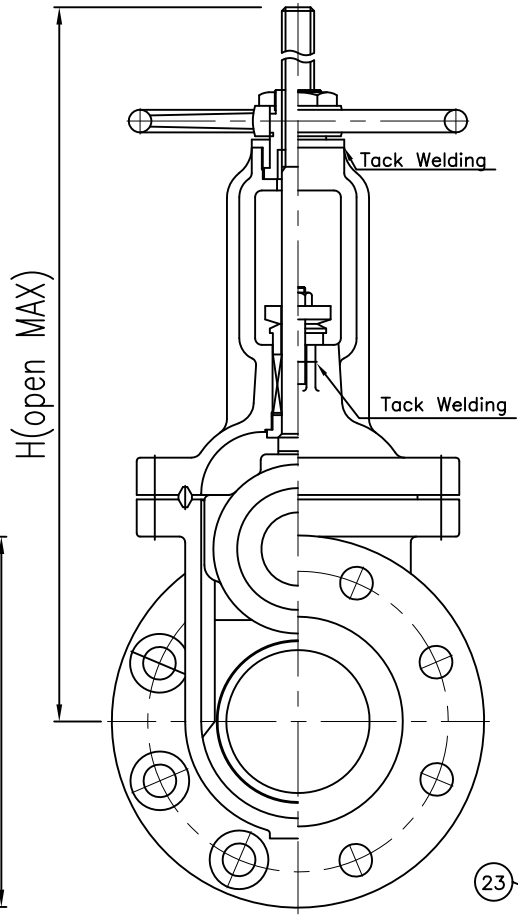
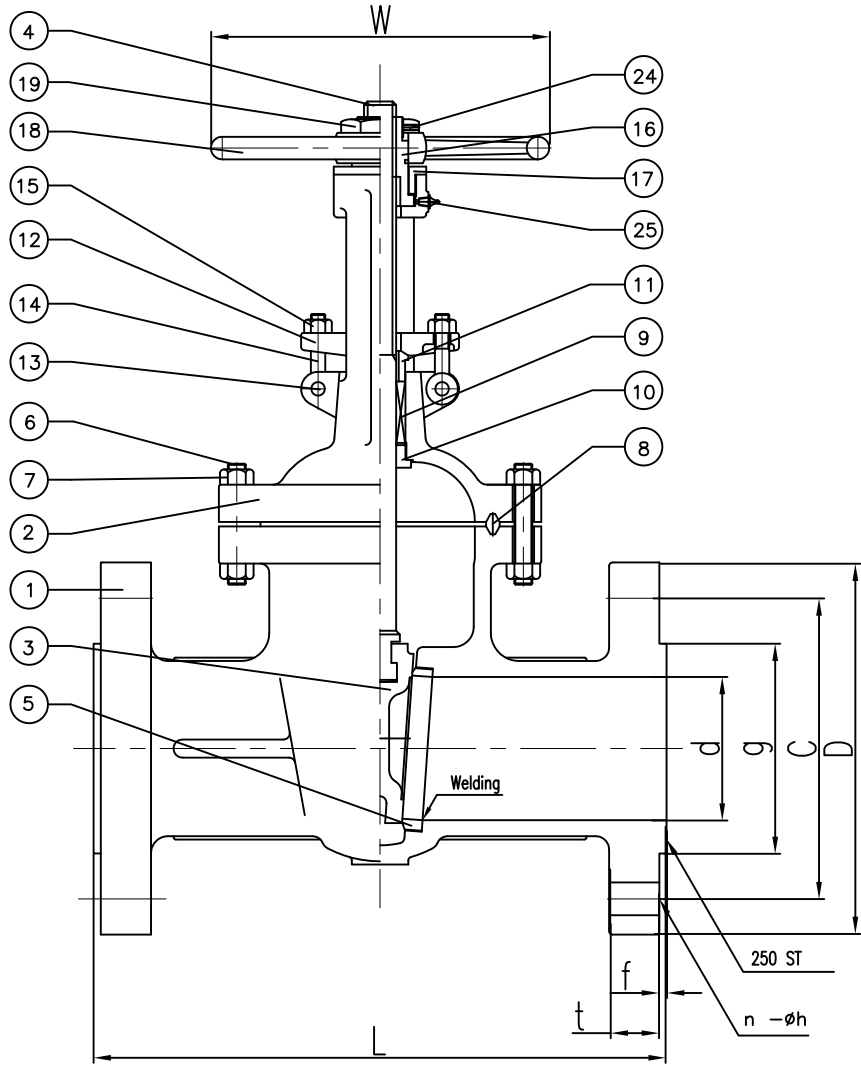
Remark: Larger sizes available upon request.

MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST:	API 598	MATERIAL:	ASTM A216 GR.WCB	UNITS:	Inch, mm				
DIM.OF FLANGE	ANSI B16.5	SHELL	HYDRO	9275PSI	CLASS:	2500	DATE:	06/26/13	SCALE:	N.T.S.	
FACE TO FACE	ANSI B16.10	SEAT	AIR	80PSI	SIZE:	2" - 8"	FIG. No.:	250F-2N			
WALL THICKNESS	API 600	BACK SEAT	HYDRO	6800PSI	DRAWN BY:	F.J.	CHK'D & APR'D BY:	R.P.	REV:	1	
NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	API 600, ANSI B16.34	NACE MR	0175	DWG No.:	60GA120212-60

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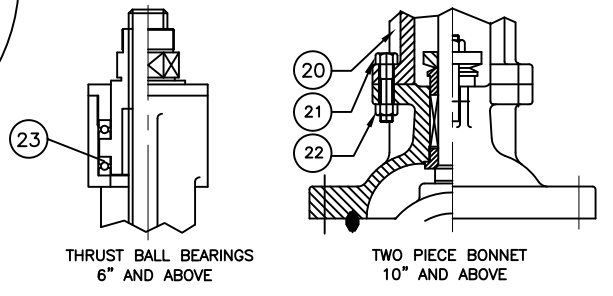
TITLE: CAST STEEL GATE VALVE CLASS 2500 - API TRIM 8 - R,F B,B OS&Y

Wm. E. Williams No. 250F62N Class 2500 RF OS&Y Gate Valve ASTM A216 WCB (API Trim 12) NACE



BILL OF MATERIALS			
NO.	PART NAME	MATERIALS	Q'TY
1	BODY	A216 Gr WCB	1
2	BONNET	A216 Gr WCB	1
3	DISC	A216 Gr WCB W/316 Faced	1
4	STEM	A182-F316	1
5	SEAT RING	A105N + HF	2
6	BONNET BOLT	A193 Gr B7M	1SET
7	BONNET NUT	A194 Gr 2HM	1SET
8	GASKET	316 + GRAPHITE	1
9	PACKING	GRAPHITE WITH CORROSION INHIBITOR AND DIE FORMED RINGS	1SET
10	BACK SEAT	A182-F316	1
11	GLAND RING	A182-F316	1
12	GLAND FLANGE	A216 Gr WCB	1
13	HINGE PIN	A479 Gr 410	2
14	GLAND BOLT	A193 Gr B7M	2
15	GLAND NUT	A194 Gr 2HM	2
16	YOKE SLEEVE	A439 Gr D2C	1
17	SLEEVE NUT	A479 Gr 410	1
18	HAND WHEEL	A197	1
19	HANDLE NUT	A479 Gr 410	1
20	YOKE	A216 Gr WCB	1
21	YOKE BOLT	A193 Gr B7M	4
22	YOKE BOLT NUT	A194 Gr 2HM	4
23	BEARING	STEEL	2
24	SET SCREW	STEEL	1
25	GREASE NIPPLE	STEEL	1

NOTE:
1. FLEXIBLE WEDGE.



SIZE	d	L	D	C	g	t	f	n-h	H	W
2.00	1.50	17.75	9.25	6.75	5.25	2.00	0.250	8-1.14	24.88	12.00
3.00	2.25	22.75	12.00	9.00	6.62	2.62	0.250	8-1.37	36.00	20.00
4.00	2.87	26.50	14.00	10.75	8.00	3.62	0.250	8-1.62	41.50	20.00
6.00	4.37	36.00	19.00	14.50	11.00	4.25	0.250	8-2.12	57.00	24.00
8.00	5.75	40.25	21.75	17.25	13.37	5.00	0.250	12-2.12	63.38	24.00

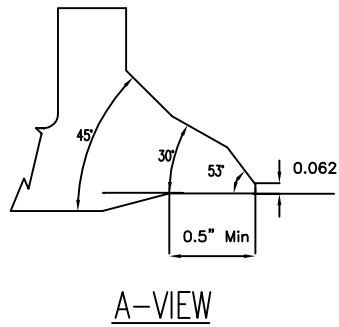
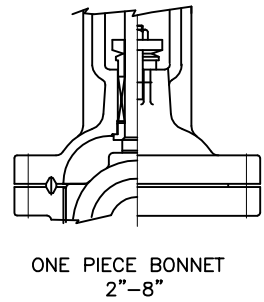
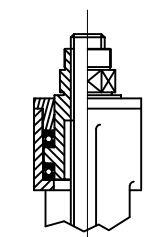
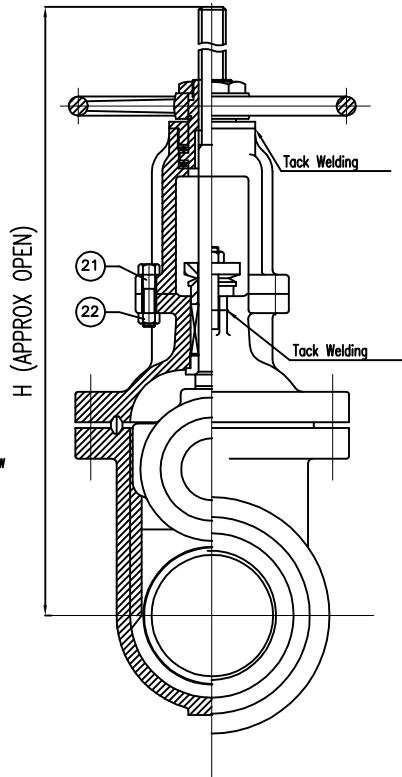
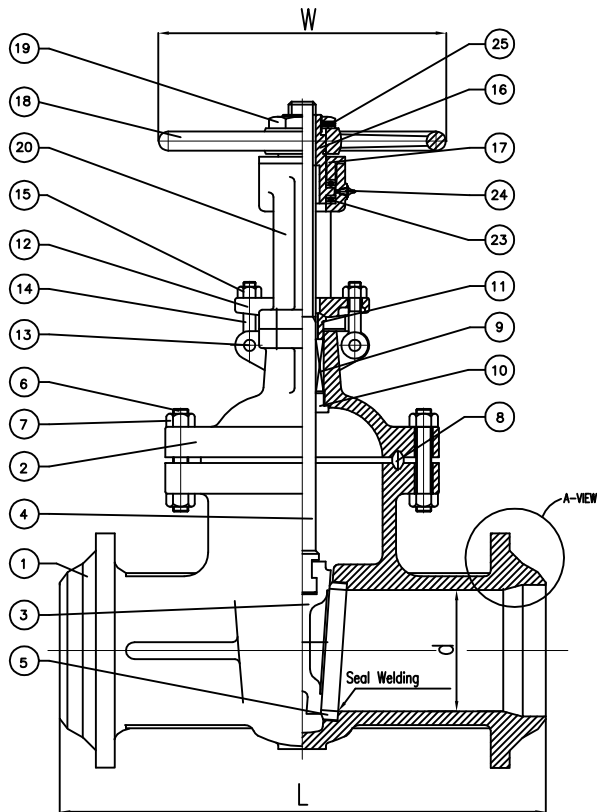
Remark: Larger sizes available upon request.

						MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm	
						DIM.OF FLANGE	ANSI B16.5	SHELL HYDRO 9275PSI	CLASS: 2500	DATE: 06/27/13	SCALE: N.T.S.
						FACE TO FACE	ANSI B16.10	SEAT AIR 80PSI	SIZE: 2" - 8"		FIG. No.: 250F-62N
						WALL THICKNESS	API 600	BACK SEAT HYDRO 6800PSI	DRAWN BY: F.J.		
NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	API 600, ANSI B16.34	NACE MR 0175	CHK'D & APR'D BY: R.P.	REV: 1	DWG No.: 60GA120215-60

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TITLE: CAST STEEL GATE VALVE CLASS 2500 - API TRIM 12 - R,F B,B OS&Y

Wm. E. Williams No. 250W2N Class 2500 BW OS&Y Gate Valve ASTM A216 WCB (API Trim 8) NACE



BILL OF MATERIALS

NO.	PART NAME	MATERIALS	Q'TY
1	BODY	A216 Gr WCB	1
2	BONNET	A216 Gr WCB	1
3	WEDGE	A216 Gr WCB W/13Cr Welding	1
4	STEM	A479 Gr 410 (13Cr)	1
5	SEAT RING	A105N + HF	2
6	BONNET BOLT	A193 Gr B7M	1SET
7	BONNET NUT	A194 Gr 2HM	1SET
8	GASKET	METAL	1
9	PACKING	GRAPHITE WITH CORROSION INHIBITOR AND DIE FORMED RINGS	1SET
10	BACK SEAT	A479 Gr 410	1
11	GLAND RING	A479 Gr 410	1
12	GLAND FLANGE	WCB	1
13	GLAND BOLT PIN	A105N	2
14	GLAND BOLT	A193 Gr B7M	2
15	GLAND NUT	A194 Gr 2HM	2
16	YOKE SLEEVE	A439 Gr D2C	1
17	SLEEVE NUT	WCB	1
18	HAND WHEEL	A197	1
19	HANDLE NUT	WCB	1
20	YOKE	A216 Gr WCB	1
21	YOKE BOLT	A193 Gr B7M	4
22	YOKE BOLT NUT	A194 Gr 2HM	4
23	BEARING	STEEL	2
24	NIPPLE	STEEL	1
25	SET SCREW	STEEL	1

NOTE:

- SPECIFY PIPE SCHEDULE No. REQUIRED.
- FLEXIBLE WEDGE

SIZE	d	L	H	W
2.00	1.50	17.75	24.88	12.00
3.00	2.25	22.75	36.00	20.00
4.00	2.87	26.50	41.50	20.00
6.00	4.37	36.00	57.00	24.00
8.00	5.75	40.25	63.38	24.00

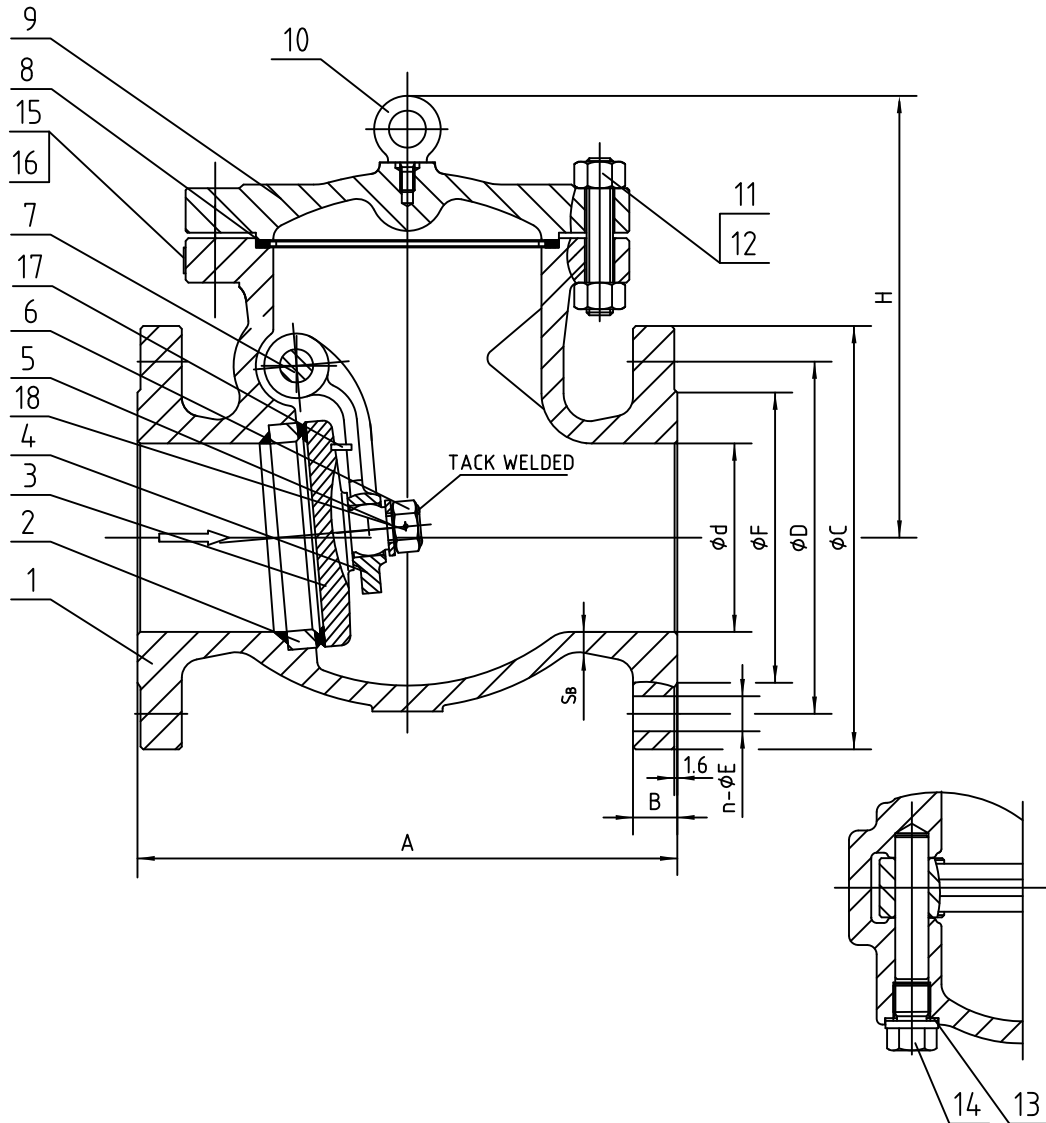
Remark: Larger sizes available upon request.

					MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm		
					DIM.OF FLANGE	ANSI B16.5	SHELL HYDRO	9275PSI	CLASS: 2500	DATE: 07/01/13	SCALE: N.T.S.
					FACE TO FACE	ANSI B16.10	SEAT AIR	80PSI	SIZE: 2" - 8"		FIG. No.: 250W-2N
					WALL THICKNESS	API 600	BACK SEAT HYDRO	6800PSI	DRAWN BY: F.J.		
NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	API 600, ANSI B16.34	NACE MR 0175	CHK'D & APR'D BY: R.P.	REV: 1	DWG No.: 60GA120218

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TITLE: CAST STEEL GATE VALVE CLASS 2500 - API TRIM 8 - BUTTWELD - B,B OS&Y

Wm. E. Williams No. 301F2N Class 300 RF Swing Check Valve A216 WCB (API Trim 8) NACE



ITEM	NAME	MATERIAL	SPECIFICATION	NOTE
1	BODY	CAST STEEL	ASTM A216-WCB	NACE
2	BODY RING	CARBON STEEL	ASTM A105+HF	
3	DISC	CARBON STEEL	ASTM A105+13%Cr	
4	HINGE	CAST STEEL	ASTM A216-WCB	
5	GASKET	STAINLESS STEEL	ASTM A276-410	
6	NUT	STAINLESS STEEL	ASTM A276-410	
7	PIN	STAINLESS STEEL	ASTM A276-410	
8	GASKET	SS304+GRAPHITE		
9	BONNET	CAST STEEL	ASTM A216-WCB	
10	EYEBOLT	CARBON STEEL	ASTM A29-1035	
11	NUT	STEEL	ASTM A194-2HM	
12	BOLT	STEEL	ASTM A193-B7M	
13	GASKET	STAINLESS STEEL	ASTM A276-304	
14	PLUG	STAINLESS STEEL	ASTM A276-410	
15	NAMEPLATE	STAINLESS STEEL	304SS	
16	RIVET	STAINLESS STEEL	304SS	
17	PIN	CARBON STEEL	ASTM A29-1020	
18	PIN	STAINLESS STEEL	316SS	

SIZE	d	A	B	C	D	n	E	F	H	S _d
2"	51	267	23	165	127	8	19	92	14.9	10
2-1/2"	64	292	26	190	149	8	22	105	16.2	11.5
3"	76	318	29	210	168.5	8	22	127	17.6	11.9
4"	102	356	32	254	200	8	22	157	25.6	12.7
5"	127	400	35	279	235	8	22	186	28.2	14.5
6"	152	444	37	318	270	12	22	216	30.6	15.8
8"	203	533	42	381	330	12	25	270	36.2	18.5
10"	254	622	48	445	387.5	16	29	324	45.4	19
12"	305	711	51	521	451	16	32	381	49.9	20.6
14"	337	838	54	584	514.5	20	32	413	56.2	22.2
16"	387	864	58	648	571.5	20	35	470	61.0	23.8
18"	432	978	61	711	628.5	24	35	533	67.9	25.4
20"	483	1016	64	775	686	24	35	584	72.2	27
24"	584	1346	70	914	813	24	41	692	78.2	30.1

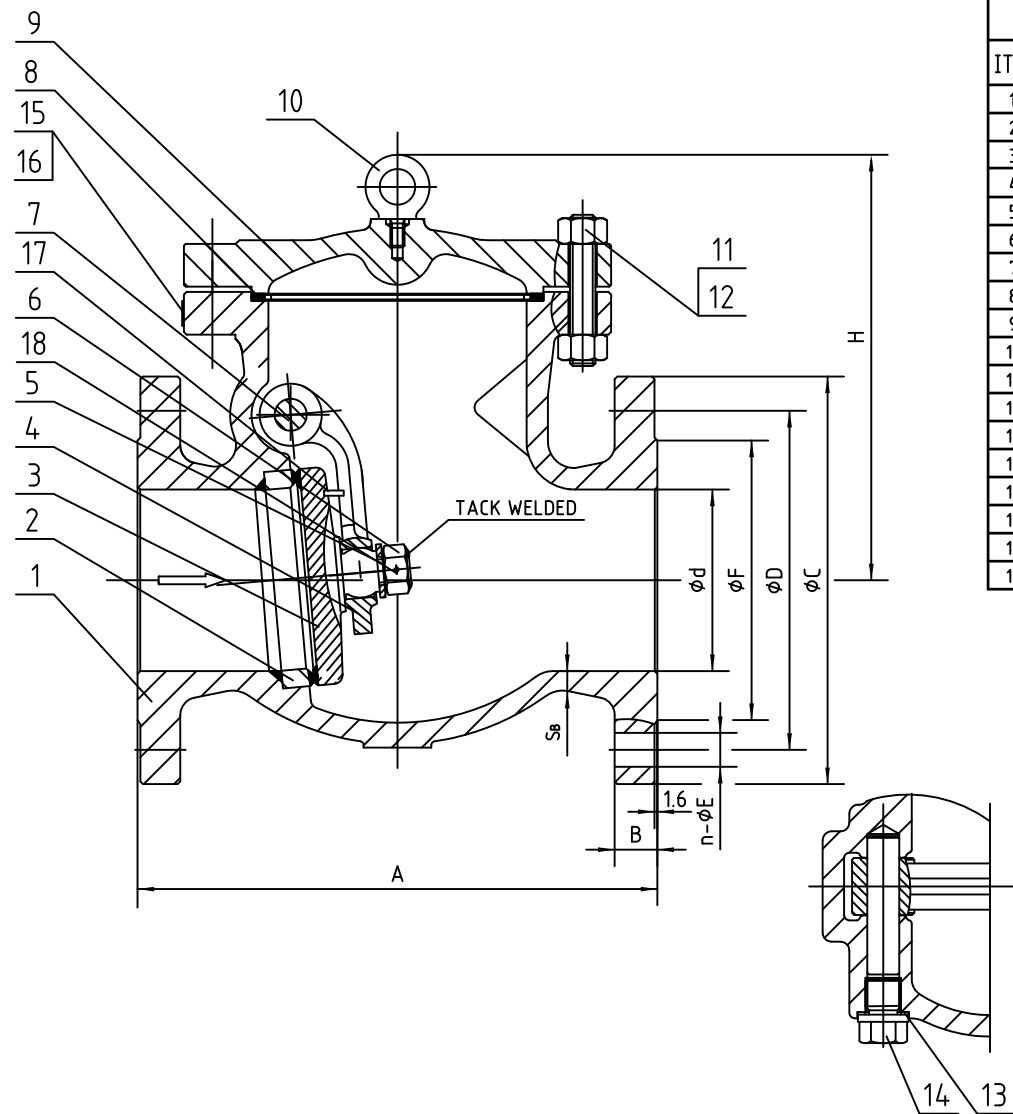
WILLIAM E. WILLIAMS VALVE CORPORATION
 28-52 REVIEW AVENUE LONG ISLAND CITY, NY 11101
 TEL: 718-392-1660 FAX: 718-729-5106
 WWW.WILLIAMSVALVE.COM

TITLE: CAST STEEL SWING CHECK VALVE CLASS 300 - API TRIM 8 - BC. RF

						MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm		
						DIM.OF FLANGE	ANSI B16.5	SHELL	HYDRO 1125PSI	CLASS: 300	DATE: 03/26/15	SCALE: N.T.S.
						FACE TO FACE	ANSI B16.10	SEAT	AIR N/A	SIZE: 2" - 24"	FIG. No.: 301F-2N	
						WALL THICKNESS	ANSI B16.34	HPC SEAT	HYDRO 815PSI	DRAWN BY: F.J.		
NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	API 594, ANSI B16.34	NACE MR0175	CHK'D & APR'D BY: R.P.	REV: 1	DWG No.: 60SC120128-28	

3/26/15	RELEASED	F.J.	R.P.	R.P.
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Wm. E. Williams No. 301F62N Class 300 RF Swing Check Valve A216 WCB (API Trim 12) NACE



BILL OF MATERIALS

ITEM	NAME	MATERIAL	SPECIFICATION	NOTE
1	BODY	CAST STEEL	ASTM A216-WCB	NACE
2	BODY RING	CARBON STEEL	ASTM A105+HF	
3	DISC	CARBON STEEL	ASTM A105+316	
4	HINGE	CAST STEEL	ASTM A216-WCB	
5	GASKET	STAINLESS STEEL	ASTM A276-316	
6	NUT	STAINLESS STEEL	ASTM A276-316	
7	PIN	STAINLESS STEEL	ASTM A276-316	
8	GASKET	SS316+GRAPHITE		
9	BONNET	CAST STEEL	ASTM A216-WCB	
10	EYEBOLT	CARBON STEEL	ASTM A29-1035	
11	NUT	STEEL	ASTM A194-2HM	
12	BOLT	STEEL	ASTM A193-B7M	
13	GASKET	STAINLESS STEEL	ASTM A276-304	
14	PLUG	STAINLESS STEEL	ASTM A276-410	
15	NAMEPLATE	STAINLESS STEEL	304SS	
16	RIVET	STAINLESS STEEL	304SS	
17	PIN	CARBON STEEL	ASTM A29-1020	
18	PIN	STAINLESS STEEL	316SS	

SIZE	d	A	B	C	D	n	E	F	H	S _B
2"	51	267	23	165	127	8	19	92	149	10
2-1/2"	64	292	26	190	149	8	22	105	162	11.5
3"	76	318	29	210	168.5	8	22	127	176	11.9
4"	102	356	32	254	200	8	22	157	256	12.7
5"	127	400	35	279	235	8	22	186	282	14.5
6"	152	444	37	318	270	12	22	216	306	15.8
8"	203	533	42	381	330	12	25	270	362	18.5
10"	254	622	48	445	387.5	16	29	324	454	19
12"	305	711	51	521	451	16	32	381	499	20.6
14"	337	838	54	584	514.5	20	32	413	562	22.2
16"	387	864	58	648	571.5	20	35	470	610	23.8
18"	432	978	61	711	628.5	24	35	533	679	25.4
20"	483	1016	64	775	686	24	35	584	722	27
24"	584	1346	70	914	813	24	41	692	782	30.1

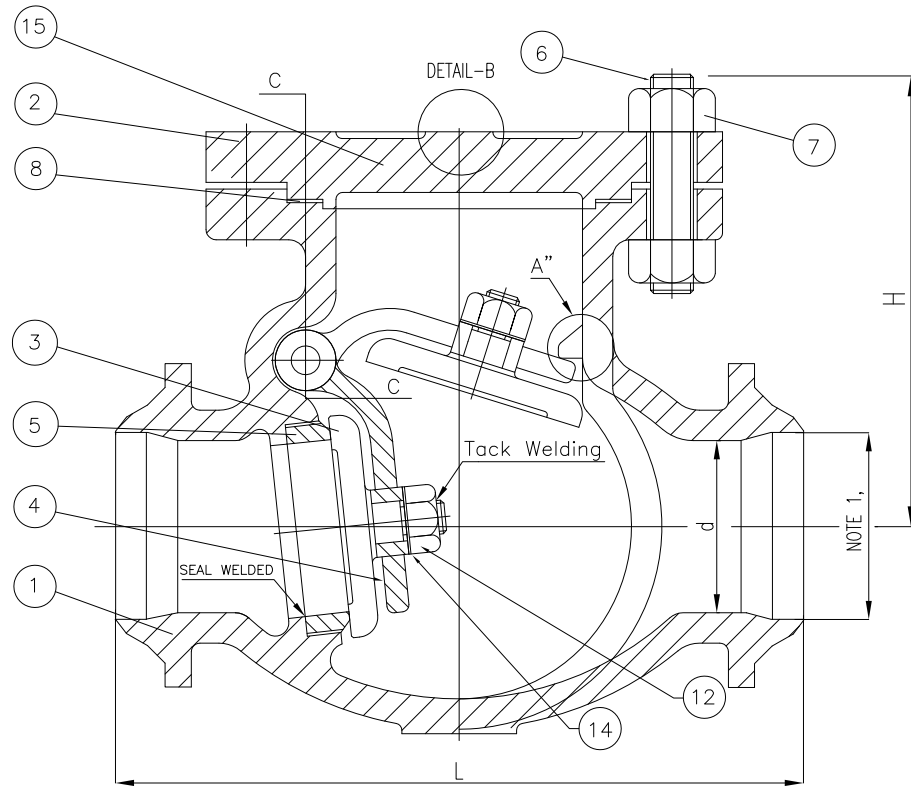
WILLIAM E. WILLIAMS VALVE CORPORATION
 38-52 REVIEW AVENUE LONG ISLAND CITY, NY 11101
 TEL: 718-392-1660 FAX: 718-729-5106
 WWW.WILLIAMSVALVE.COM

TITLE: CAST STEEL SWING CHECK VALVE CLASS 300 - API TRIM 12 - BC. RF

NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm
							DIM. OF FLANGE	ANSI B16.5	SHELL	HYDRO	1125PSI
							FACE TO FACE	ANSI B16.10	SEAT	AIR	N/A
							WALL THICKNESS	ANSI B16.34	HPC SEAT	HYDRO	815PSI
								API 594, ANSI B16.34	NACE MR0175	CHK'D & APR'D BY: R.P.	SCALE: N.T.S.
										DATE: 02/13/15	FIG. No.: 301F-62N
										REV: 1	DWG No.: 60SC120204-28

NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D
Δ	2/13/15	RELEASED	F.J.	R.P.	R.P.

Wm. E. Williams No. 301W2N Class 300 BW Swing Check Valve A216 WCB (API Trim 8) NACE

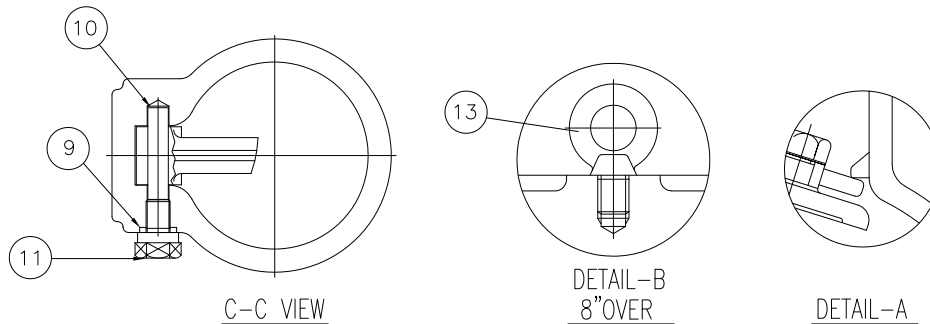


BILL OF MATERIALS			
NO.	PART NAME	MATERIAL	Q'TY
1	BODY	A216Gr WCB	1
2	COVER	A216Gr WCB	1
3	DISC	A216 GR WCB + 13Cr Faced	1
4	ARM	A216Gr WCB	1
5	SEAT RING	A105N + HF	1
6	COVER BOLT	A193Gr B7M	1SET
7	COVER NUT	A194Gr 2HM	1SET
8	GASKET	304+GRAPHITE	1
9	PIN GASKET	GRAPHITE	1
10	HINGE PIN	A479Gr 410	1
11	HINGE BOLT	A193Gr B7M	1
12	DISC NUT	A194Gr 2HM	1
13	EYE BOLT	A193Gr B7M	1
14	WASHER	STEEL	1
15	NAME PLATE	STAINLESS STEEL	1

NOTE:

1. SPECIFY PIPE SCHEDULE No. REQUIRED.

SIZE	d	L	H
2.00	2.00	10.50	6.37
2.50	2.50	11.50	7.50
3.00	3.00	12.50	7.87
4.00	4.00	14.00	9.00
5.00	5.00	15.75	10.50
6.00	6.00	17.50	11.00
8.00	8.00	21.00	12.62
10.00	10.00	24.50	15.00
12.00	12.00	28.00	17.12
14.00	13.25	33.00	20.00
16.00	15.25	34.00	20.50
18.00	17.25	38.50	22.50
20.00	19.25	40.00	25.00
24.00	23.25	53.00	29.00



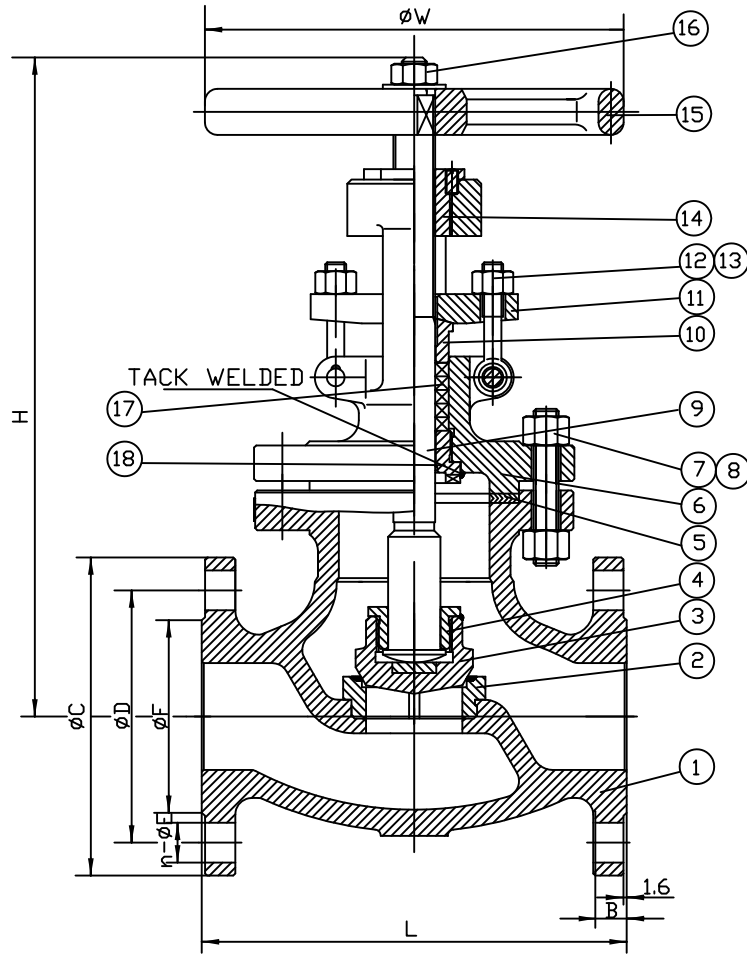
WILLIAM E. WILLIAMS VALVE CORPORATION
 38-52 REVIEW AVENUE, LONG ISLAND CITY, NY 11101
 TEL: 718-392-1660 FAX: 718-729-5106
 WWW.WILLIAMSVALVE.COM

TITLE: CAST STEEL SWING CHECK VALVE CLASS 300 - API TRIM 8 - BUTTWELD

Remark: Larger sizes available upon request.

NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm
							BUTTWELD ENDS	ANSI B16.25	SHELL HYDRO	1125PSI	SCALE: N.T.S.
							FACE TO FACE	ANSI B16.10	SEAT AIR	80PSI	FIG. No.: 301W-2N
							WALL THICKNESS	ANSI B16.34	BACK SEAT HYDRO	815PSI	
								BS1868, ANSI B16.34	NACE MR 0175		DWG No.: 60SC120101
	1/1/12	RELEASED	F.J.	R.P.	R.P.						CHK'D & APR'D BY: R.P. REV: 1

Wm. E. Williams No. 302F2N Class 300 RF Globe Valve ASTM A 216 WCB (API Trim 8) NACE



ITEM	NAME	MATERIAL	SPECIFICATION	NOTE
1	BODY	CAST STEEL	ASTM A 216 WCB	NACE
2	SEAT	CARBON STEEL	ASTM A 105+HF	
3	DISC	CARBON STEEL	ASTM A 105+13%Cr	
4	DISC COVER	STAINLESS STEEL	ASTM A 479-410	
5	GASKET	SPIRAL WOUND	SS304+GRAPHITE	
6	BONNET	CAST STEEL	ASTM A 216 WCB	
7	BONNET BOLT	STEEL	ASTM A 193-B7M	
8	BONNET NUT	STEEL	ASTM A 194-2HM	
9	STEM	STAINLESS STEEL	ASTM A 182 F6a	
10	GLAND	STAINLESS STEEL	ASTM A 479-410	
11	GLAND FLANGE	CAST STEEL	ASTM A 216 WCB	
12	EYE BOLT	STEEL	ASTM A 193-B7M	
13	EYE BOLT NUT	STEEL	ASTM A 194-2HM	
14	STEM NUT	NODULAR CAST IRON	ASTM A 439 D-2	
15	HANDWHEEL	NODULAR CAST IRON		
16	HANDWHEEL NUT	CARBON STEEL	ASTM A 29-1035	
17	PACKING RING	INCONEL WIRE WITH GRAPHITE		
18	BACKSEAT BUSHING	STAINLESS STEEL	ASTM A 479-410	

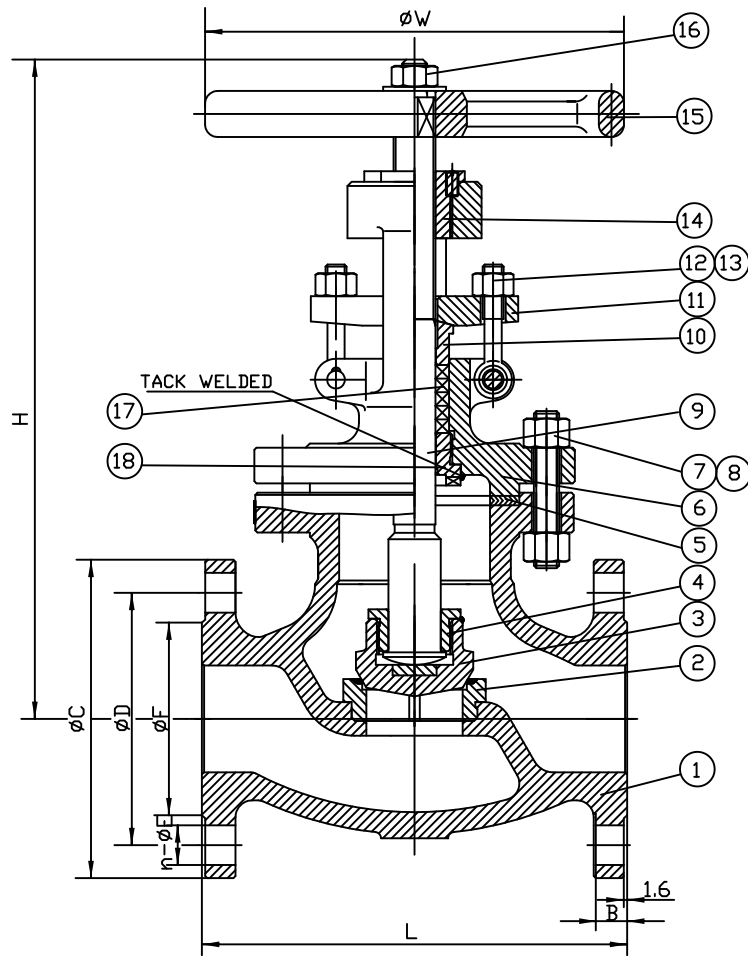
SIZE	L	B	C	D	n	E	F	H	W
2"	267	23	165	127	8	19	92	387	200
3"	318	29	210	168.5	8	22	127	405	250
4"	356	32	254	200	8	22	157	473	350
6"	444	37	318	270	12	22	216	602	450
8"	559	42	381	330	12	25	270	823	560
10"	622	48	445	387.5	16	29	324	780	560
12"	711	51	521	451	16	32	381	950	640
14"	838	54	584	514.5	20	32	413	908	640
16"	864	58	648	571.5	20	35	470	1023	640

Remark: Larger sizes available upon request

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TITLE:		CAST STEEL GLOBE VALVE	
		CLASS 300 - API TRIM 8 - B,B R,F OS&Y	
MATERIAL:	ASTM A216 GR.WCB	UNITS:	Inch, mm
CLASS:	300	DATE:	12/30/15
SCALE:	N.T.S.	FIG. No.:	302F2N
SIZE:	2" - 16"	DRAWN BY:	F.J.
MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST:	API 598
DIM.OF FLANGE	ANSI B16.5	SHELL	HYDRO 1125PSI
FACE TO FACE	ANSI B16.10	SEAT	AIR 80PSI
WALL THICKNESS	BS1873	BACK SEAT	HYDRO 815PSI
NO.	DATE	DESCRIPTION	PRP'D REV'D APP'D DESIGNED
Δ	12/30/15	RELEASED	F.J. R.P. R.P.
			BS1873, ANSI B16.34
			NACE MR 0175
			CHK'D & APR'D BY: R.P.
			REV: 1
			DWG No.: 60GL120099-28

Wm. E. Williams No. 302F62N Class 300 RF Globe Valve ASTM A 216 WCB (API Trim 12) NACE



ITEM	NAME	MATERIAL	SPECIFICATION	NOTE
1	BODY	CAST STEEL	ASTM A216 WCB	NACE
2	SEAT	CARBON STEEL	ASTM A105+HF	
3	DISC	CARBON STEEL	ASTM A216-WCB+316	
4	DISC COVER	STAINLESS STEEL	ASTM A276-410	
5	GASKET	SPIRAL WOUND	SS304+GRAPHITE	
6	BONNET	CAST STEEL	ASTM A216 WCB	
7	BONNET BOLT	STEEL	ASTM A193-B7M	
8	BONNET NUT	STEEL	ASTM A194-2HM	
9	STEM	STAINLESS STEEL	ASTM A182-F316	
10	GLAND	STAINLESS STEEL	ASTM A479-410	
11	GLAND FLANGE	CAST STEEL	ASTM A216 WCB	
12	EYE BOLT	STEEL	ASTM A193-B7M	
13	EYE BOLT NUT	STEEL	ASTM A194-2HM	
14	STEM NUT	NODULAR CAST IRON	ASTM A439 D-2	
15	HANDWHEEL	NODULAR CAST IRON		
16	HANDWHEEL NUT	CARBON STEEL	ASTM A29-1035	
17	PACKING RING	INCONEL WIRE WITH GRAPHITE		
18	BACKSEAT BUSHING	STAINLESS STEEL	ASTM A479-410	

SIZE	L	B	C	D	n	E	F	H	W
2"	267	23	165	127	8	19	92	387	200
3"	318	29	210	168.5	8	22	127	405	250
4"	356	32	254	200	8	22	157	473	350
6"	444	37	318	270	12	22	216	602	450
8"	559	42	381	330	12	25	270	823	560
10"	622	48	445	387.5	16	29	324	780	560
12"	711	51	521	451	16	32	381	950	640
14"	838	54	584	514.5	20	32	413	908	640
16"	864	58	648	571.5	20	35	470	1023	640

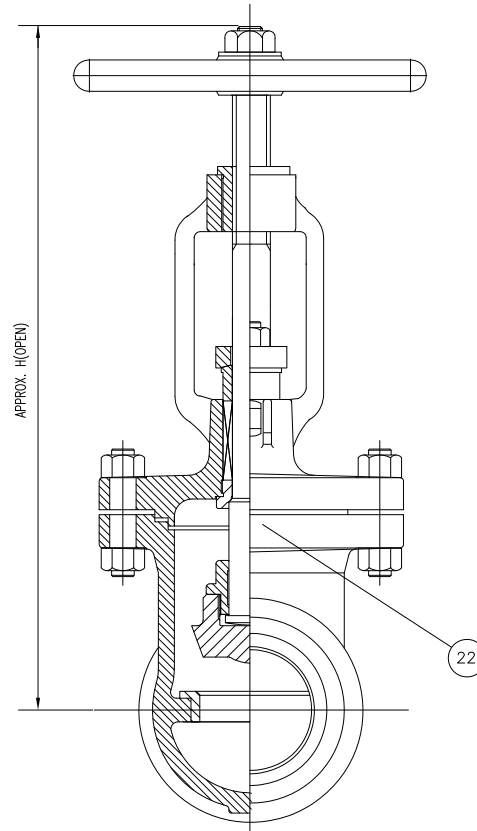
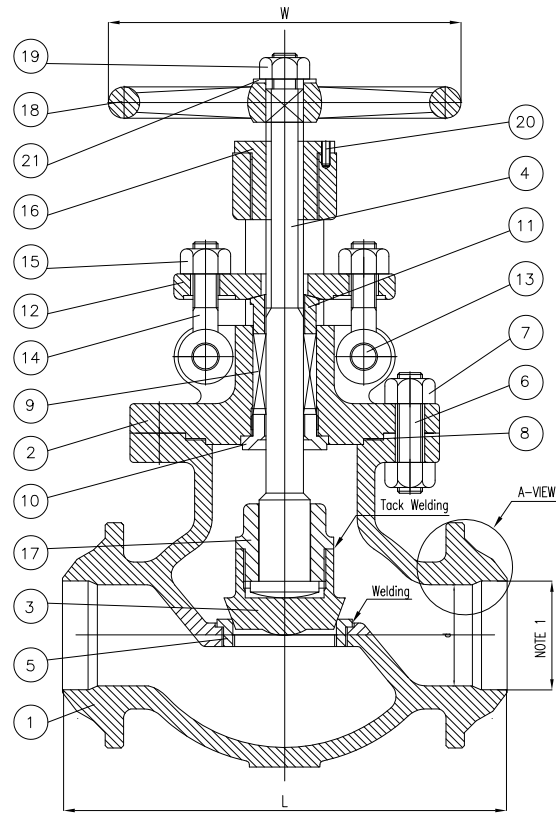
Remark: Larger sizes available upon request

						MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm			
						DIM.OF FLANGE	ANSI B16.5	SHELL	HYDRO	1125PSI	CLASS: 300	DATE: 12/31/15	SCALE: N.T.S.
						FACE TO FACE	ANSI B16.10	SEAT	AIR	80PSI	SIZE: 2" - 16"	FIG. No.: 302F-62N	
						WALL THICKNESS	BS1873	BACK SEAT	HYDRO	815PSI	DRAWN BY: F.J.		
NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	BS1873, ANSI B16.34	NACE MR 0175	CHK'D & APR'D BY: R.P.	REV: 1	DWG No.: 60GL120078-28		

WILLIAM E. WILLIAMS VALVE CORPORATION
 38-52 REVIEW AVENUE LONG ISLAND CITY, NY 11101
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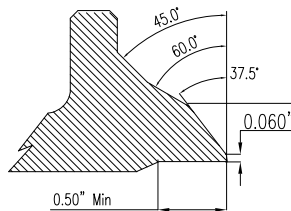
TITLE: CAST STEEL GLOBE VALVE CLASS 300 - API TRIM 12 - B,B R,F OS&Y

Wm. E. Williams No. 302W2N Class 300 BW Globe Valve ASTM A 216 WCB (API Trim 8)



BILL OF MATERIALS			
NO.	PART NAME	MATERIALS	Q'TY
1	BODY	A216Gr WCB	1
2	BONNET	A216Gr WCB	1
3	DISC	A216Gr WCB + 13Cr Faced	1
4	STEM	A479 410	1
5	SEAT RING	A105N + HF	1
6	BONNET BOLT	A193Gr B7M	1SET
7	BONNET NUT	A194Gr 2HM	1SET
8	GASKET	304 + GRAPHITE	1
9	PACKING	GRAPHITE WITH CORROSION INHIBITOR AND DIE FORMED RINGS	1SET
10	BACK SEAT	A479Gr 410	1
11	GLAND RING	A479Gr 410	1
12	GLAND FLANGE	WCB	1
13	HINGE PIN	410	2
14	GLAND BOLT	A193Gr B7M	2
15	GLAND NUT	A194Gr 2HM	2
16	BONNET BUSH	A439Gr D2C	1
17	DISC NUT	A217Gr CA15	1
18	HAND WHEEL	A197	1
19	HANDLE NUT	A194Gr 2HM	1
20	SET SCREW	STEEL	1
21	WASHER	STEEL	1
22	NAME PLATE	STAINLESS STEEL	1

NOTE:
1. SPECIFY PIPE SCHEDULE No. REQUIRED.



A-VIEW

VALVE SIZE	d	L	H	W
2.00	2.00	10.50	13.37	9.00
2.50	2.50	11.50	15.37	9.00
3.00	3.00	12.50	16.50	13.00
4.00	4.00	14.00	19.37	14.00
5.00	5.00	15.75	21.50	15.75
6.00	6.00	17.50	24.37	17.75
8.00	8.00	22.00	31.25	22.00
10.00	10.00	24.50	45.00	34.00
12.00	12.00	28.00	49.00	34.00

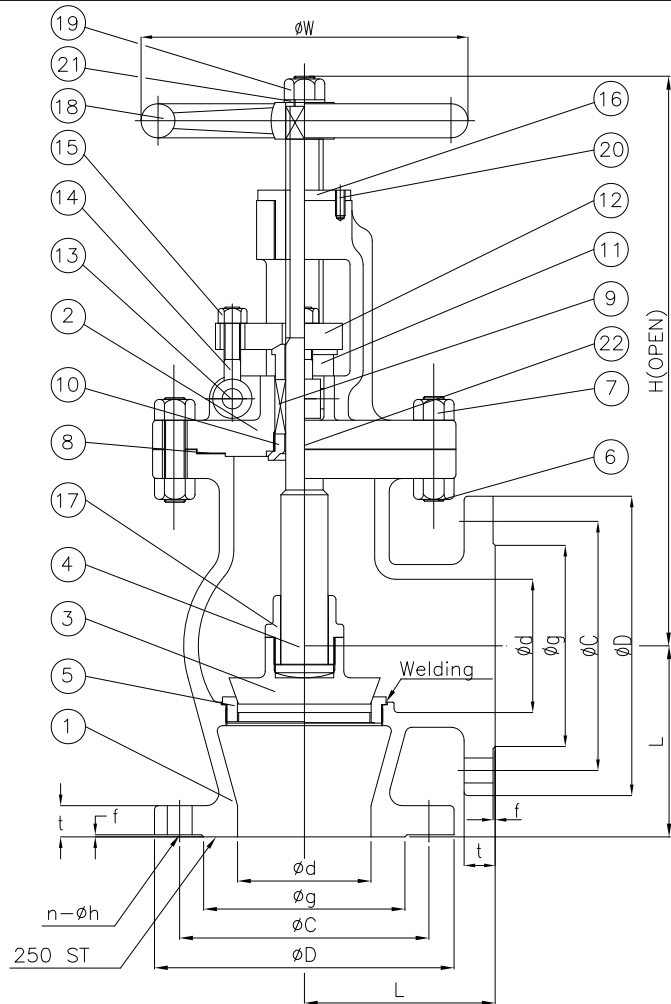
Remark: Larger sizes available upon request.

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TITLE: CAST STEEL GLOBE VALVE CLASS 300 - API TRIM 8 - B,B BUTTWELD END			
MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm	CLASS: 300	DATE: 01/01/12
FACE TO FACE: ANSI B16.10	SEAT: AIR	80PSI	SCALE: N.T.S.
WALL THICKNESS: BS1873	BACK SEAT: HYDRO	815PSI	FIG. No.: 302W-2N
DESIGNED: BS1873, ANSI B16.34	NACE MR 0175	CHK'D & APR'D BY: R.P.	REV: 1 DWG No.: 60GL120124

NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598
Δ	1/1/12	RELEASED	F.J.	R.P.	R.P.		BUTTWELDING END	ANSI B16.25	SHELL HYDRO 1125PSI
							FACE TO FACE	ANSI B16.10	SEAT AIR 80PSI
							WALL THICKNESS	BS1873	BACK SEAT HYDRO 815PSI

Wm. E. Williams No. 303F2 Class 300 RF Angle Valve ASTM A 216 WCB (API Trim 8)



BILL OF MATERIALS			
NO.	PART NAME	MATERIALS	Q'TY
1	BODY	A216Gr WCB	1
2	BONNET	A216Gr WCB	1
3	DISC	A216Gr WCB + 13Cr Faced	1
4	STEM	A479 410	1
5	SEAT RING	A105N + HF	1
6	BONNET BOLT	A193Gr B7	1SET
7	BONNET NUT	A194Gr 2H	1SET
8	GASKET	304 + GRAPHITE	1
9	PACKING	GRAPHITE WITH CORROSION INHIBITOR AND DIE FORMED RINGS	1SET
10	BACK SEAT	A479Gr 410	1
11	GLAND RING	A479Gr 410	1
12	GLAND FLANGE	WCB	1
13	HINGE PIN	410	2
14	GLAND BOLT	A193Gr B7	2
15	GLAND NUT	A194Gr 2H	2
16	BONNET BUSH	A439Gr D2C	1
17	DISC NUT	A217Gr CA15	1
18	HAND WHEEL	A197	1
19	HANDLE NUT	A194Gr 2H	1
20	SET SCREW	STEEL	1
21	WASHER	STEEL	1
22	NAME PLATE	STAINLESS STEEL	1

SIZE	d	L	D	C	g	t	f	n-h	H	W
2.00	2.00	5.25	6.50	5.00	3.62	0.88	0.060	8-0.75	13.37	9.00
2.50	2.50	5.75	7.50	5.87	4.12	1.00	0.060	8-0.87	15.37	9.00
3.00	3.00	6.25	8.25	6.63	5.00	1.12	0.060	8-0.87	16.50	13.00
4.00	4.00	7.00	10.00	7.87	6.19	1.25	0.060	8-0.87	19.37	14.00
5.00	5.00	7.87	11.00	9.25	7.31	1.38	0.060	8-0.87	21.50	15.75
6.00	6.00	8.75	12.50	10.63	8.50	1.44	0.060	12-0.87	24.37	17.75
8.00	8.00	11.00	15.00	13.00	10.62	1.62	0.060	12-1.00	31.25	22.00
10.00	10.00	12.25	17.50	15.25	12.75	1.88	0.060	16-1.12	45.00	34.00
12.00	12.00	14.00	20.50	17.75	15.00	2.00	0.060	16-1.25	49.50	34.00

Remark: Larger sizes available upon request.

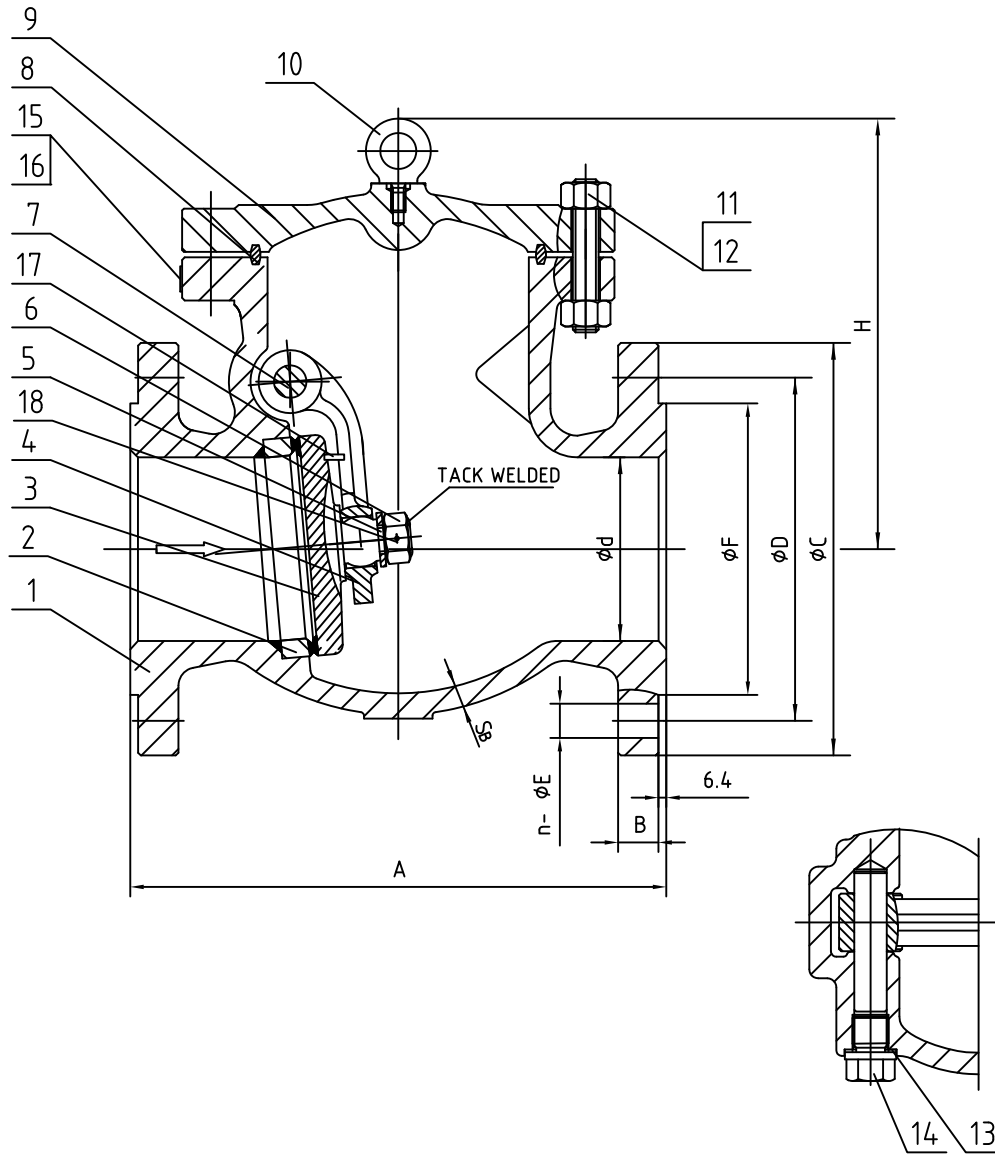


TITLE: CAST STEEL ANGLE GLOBE VALVE CLASS 300 - API TRIM 8 - B,B,R,F	
MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm
CLASS: 300	DATE: 09/17/13
SCALE: N.T.S.	FIG. No.: 303F-2
SIZE: 2" - 12"	DRAWN BY: F.J.
WALL THICKNESS: BS1873	CHK'D & APR'D BY: R.P.
MARKING SYSTEM: MSS-SP-25	REVISION: 1
INSPECTION & TEST: API 598	DWG No.: 60AN120253

NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D
Δ	9/17/13	RELEASED	F.J.	R.P.	R.P.

DIM.OF FLANGE	CENTER TO FACE	WALL THICKNESS	MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598
ANSI B16.5	ANSI B16.10	BS1873			
SEAT	SEAT	BACK SEAT			
AIR	AIR	HYDRO			
80PSI	80PSI	815PSI			
DESIGNED	DESIGNED	DESIGNED			
BS1873, ANSI B16.34	BS1873, ANSI B16.34	BS1873, ANSI B16.34			

Wm. E. Williams No. 601F2N Class 600 RF Swing Check Valve ASTM A216 WCB (API Trim 8) NACE



ITEM	NAME	MATERIAL	SPECIFICATION	NOTE
1	BODY	CAST STEEL	ASTM A216-WCB	NACE
2	BODY RING	CARBON STEEL	ASTM A105+HF	
3	DISC	CARBON STEEL	ASTM A105+13%Cr	
4	HINGE	CAST STEEL	ASTM A216-WCB	
5	GASKET	STAINLESS STEEL	ASTM A276-410	
6	NUT	STAINLESS STEEL	ASTM A276-410	
7	PIN	STAINLESS STEEL	ASTM A276-410	
8	GASKET, RING JOINT	STEEL	08F	
9	BONNET	CAST STEEL	ASTM A216-WCB	
10	EYEBOLT	CARBON STEEL	ASTM A29-1035	
11	NUT	STEEL	ASTM A194-2HM	
12	BOLT	STEEL	ASTM A193-B7M	
13	GASKET	STAINLESS STEEL	ASTM A276-304	
14	PLUG	STAINLESS STEEL	ASTM A276-410	
15	NAMEPLATE	STAINLESS STEEL	304SS	
16	RIVET	STAINLESS STEEL	304SS	
17	PIN	CARBON STEEL	ASTM A29-1020	
18	PIN	STAINLESS STEEL	316SS	

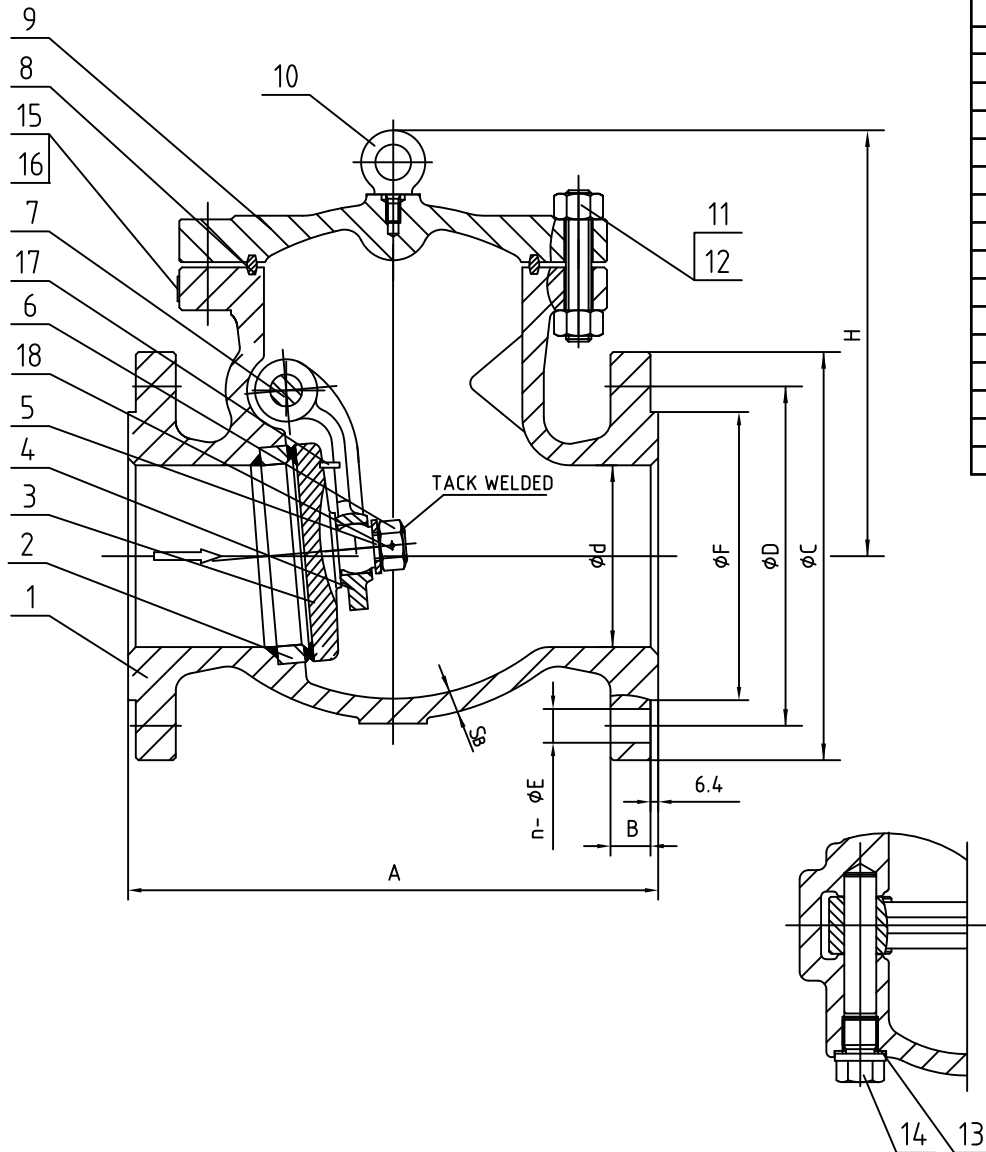
SIZE	d	A	B	C	D	n	E	F	H	S _b
2"	51	292	26	165	127	8	19	92	152	11.2
2-1/2"	64	330	29	190	149	8	22	105	185	12
3"	76	356	32	210	168	8	22	127	187	12.7
4"	102	432	38	273	216	8	25	157	266	15.8
5"	127	508	44.5	330	266.5	8	29	186	316	18
6"	152	559	48	356	292	12	29	216	355	19.1
8"	200	660	56	419	349	12	32	270	485	26
10"	248	787	64	508	432	16	35	324	545	29
12"	298	838	67	559	489	20	35	381	615	32
14"	327	889	70	603	527	20	38	413	570	35.1
16"	375	991	77	686	603	20	41	470	713	38.1
18"	419	1092	83	743	654	20	44	533	828	42
20"	464	1194	89	813	724	24	44	584	785	44.5
24"	559	1397	102	940	838	24	52	692	850	50.8


WILLIAMS
 VALVE CORPORATION
38-52 REVIEW AVENUE
 LONG ISLAND CITY, NY 11101
 TEL: 718-392-1660
 FAX: 718-729-5106

TITLE: CAST STEEL SWING CHECK VALVE
CLASS 600 - API TRIM 8 - BC, RF

					MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598			MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm	
					DIM.OF FLANGE	ANSI B16.5	SHELL	HYDRO	2250PSI	CLASS: 600	DATE: 03/31/15	SCALE: N.T.S.
					FACE TO FACE	ANSI B16.10	SEAT	AIR	N/A	SIZE: 2" - 24"	FIG. No.: 601F-2N	
					WALL THICKNESS	ANSI B16.34	HPC SEAT	HYDRO	1630PSI	DRAWN BY: F.J.		
NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	API 594, ANSI B16.34	NACE MR 0175	CHK'D & APR'D BY: R.P.	REV: 1	DWG No.: 60SC120129-28	

Wm. E. Williams No. 601F62N Class 600 RF Swing Check Valve ASTM A216 WCB (API Trim 12) NACE



ITEM	NAME	MATERIAL	SPECIFICATION	NOTE
1	BODY	CAST STEEL	ASTM A216-WCB	NACE
2	BODY RING	CARBON STEEL	ASTM A105+HF	
3	DISC	CARBON STEEL	ASTM A105+316	
4	HINGE	CAST STEEL	ASTM A216-WCB	
5	GASKET	STAINLESS STEEL	ASTM A276-316	
6	NUT	STAINLESS STEEL	ASTM A276-316	
7	PIN	STAINLESS STEEL	ASTM A276-316	
8	GASKET, RING JIONT	STEEL	SS316	
9	BONNET	CAST STEEL	ASTM A216-WCB	
10	EYEBOLT	CARBON STEEL	ASTM A29-1035	
11	NUT	STEEL	ASTM A194-2HM	
12	BOLT	STEEL	ASTM A193-B7M	
13	GASKET	STAINLESS STEEL	ASTM A276-304	
14	PLUG	STAINLESS STEEL	ASTM A276-410	
15	NAMEPLATE	STAINLESS STEEL	304SS	
16	RIVET	STAINLESS STEEL	304SS	
17	PIN	CARBON STEEL	ASTM A29-1020	
18	PIN	STAINLESS STEEL	316SS	

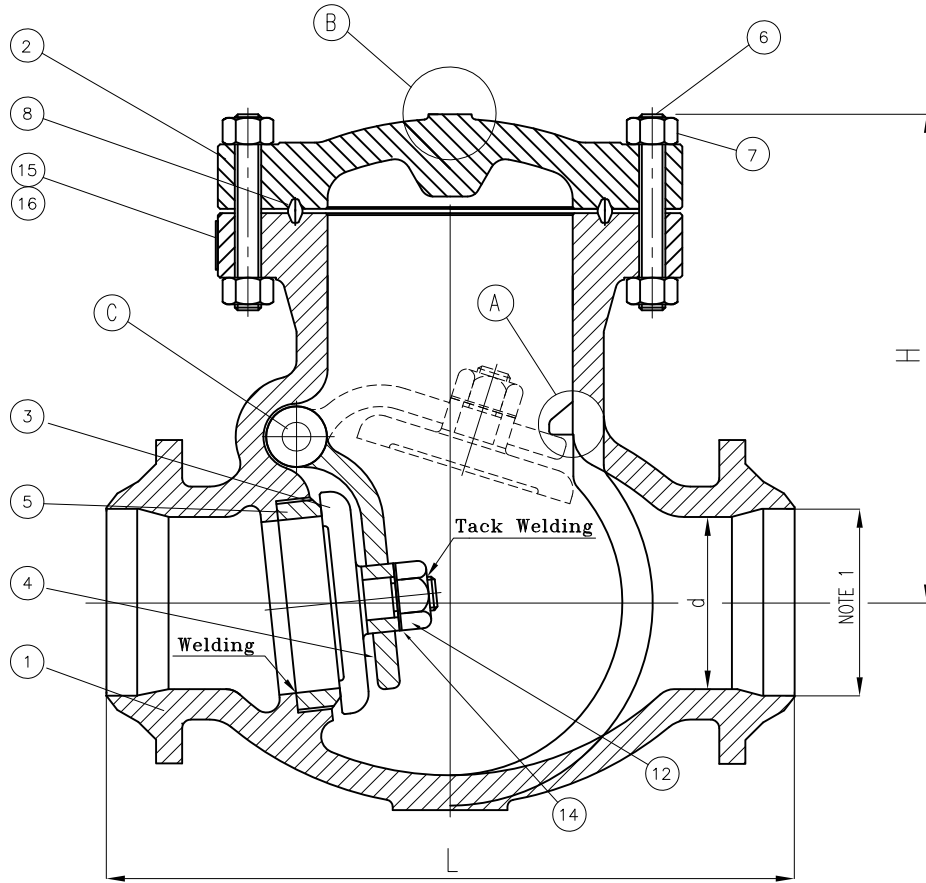
SIZE	d	A	B	C	D	n	E	F	H	S ₈
2"	51	292	26	165	127	8	19	92	152	11.2
2-1/2"	64	330	29	190	149	8	22	105	185	12
3"	76	356	32	210	168	8	22	127	187	12.7
4"	102	432	38	273	216	8	25	157	266	15.8
5"	127	508	44.5	330	266.5	8	29	186	316	18
6"	152	559	48	356	292	12	29	216	355	19.1
8"	200	660	56	419	349	12	32	270	485	26
10"	248	787	64	508	432	16	35	324	545	29
12"	298	838	67	559	489	20	35	381	615	32
14"	327	889	70	603	527	20	38	413	570	35.1
16"	375	991	77	686	603	20	41	470	713	38.1
18"	419	1092	83	743	654	20	44	533	828	42
20"	464	1194	89	813	724	24	44	584	785	44.5
24"	559	1397	102	940	838	24	52	692	850	50.8

WILLIAM E. WILLIAMS VALVE CORPORATION
 38-52 REVIEW AVENUE LONG ISLAND CITY, NY 11101
 TEL: 718-392-1660 FAX: 718-729-5106

TITLE: CAST STEEL SWING CHECK VALVE CLASS 600 - API TRIM 12

NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm
							DIM.OF FLANGE	ANSI B16.5	SHELL	HYDRO	2250PSI
							FACE TO FACE	ANSI B16.10	SEAT	AIR	N/A
							WALL THICKNESS	ANSI B16.34	HPC SEAT	HYDRO	1630PSI
								API 594, ANSI B16.34	NACE MR 0175	CHK'D & APR'D BY: R.P.	REV: 1
										DRAWN BY: F.J.	SCALE: N.T.S.
											FIG. No.: 601F-62N
											DWG No.: 60SC120027-28

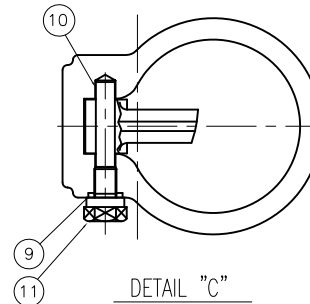
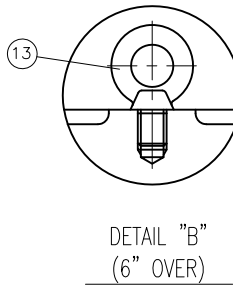
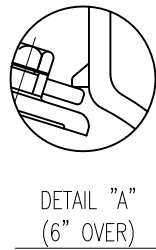
Wm. E. Williams No. 601W2N Class 600 BW Swing Check Valve A216 WCB (API Trim 8) NACE



BILL OF MATERIALS			
NO.	PART NAME	MATERIAL	Q'TY
1	BODY	A216Gr WCB	1
2	COVER	A216Gr WCB	1
3	DISC	A216 GR WCB + 13Cr Faced	1
4	ARM	A216Gr WCB	1
5	SEAT RING	A105N + HF	1
6	COVER BOLT	A193Gr B7M	1SET
7	COVER NUT	A194Gr 2HM	1SET
8	GASKET, RING JOINT	SOFT IRON 08F	1
9	PIN GASKET	410	1
10	HINGE PIN	A479Gr 410	1
11	HINGE BOLT	A193Gr B7M	1
12	DISC NUT	A194Gr 2HM	1
13	EYE BOLT	A193Gr B7M	1
14	WASHER	STEEL	1
15	NAME PLATE	STAINLESS STEEL	1
16	RIVET	STAINLESS STEEL	2

NOTE:
1. SPECIFY PIPE SCHEDULE No. REQUIRED.

SIZE	d	L	H
2.00	2.00	11.50	7.37
2.50	2.50	13.00	7.87
3.00	3.00	14.00	8.25
4.00	4.00	17.00	10.25
5.00	5.00	20.00	11.00
6.00	6.00	22.00	13.00
8.00	7.88	26.00	17.00
10.00	9.75	31.00	19.00
12.00	11.75	33.00	20.00
14.00	12.88	35.00	22.50
16.00	14.75	39.00	26.00
18.00	16.50	43.00	28.00
20.00	18.25	47.00	31.00
24.00	22.00	55.00	34.00



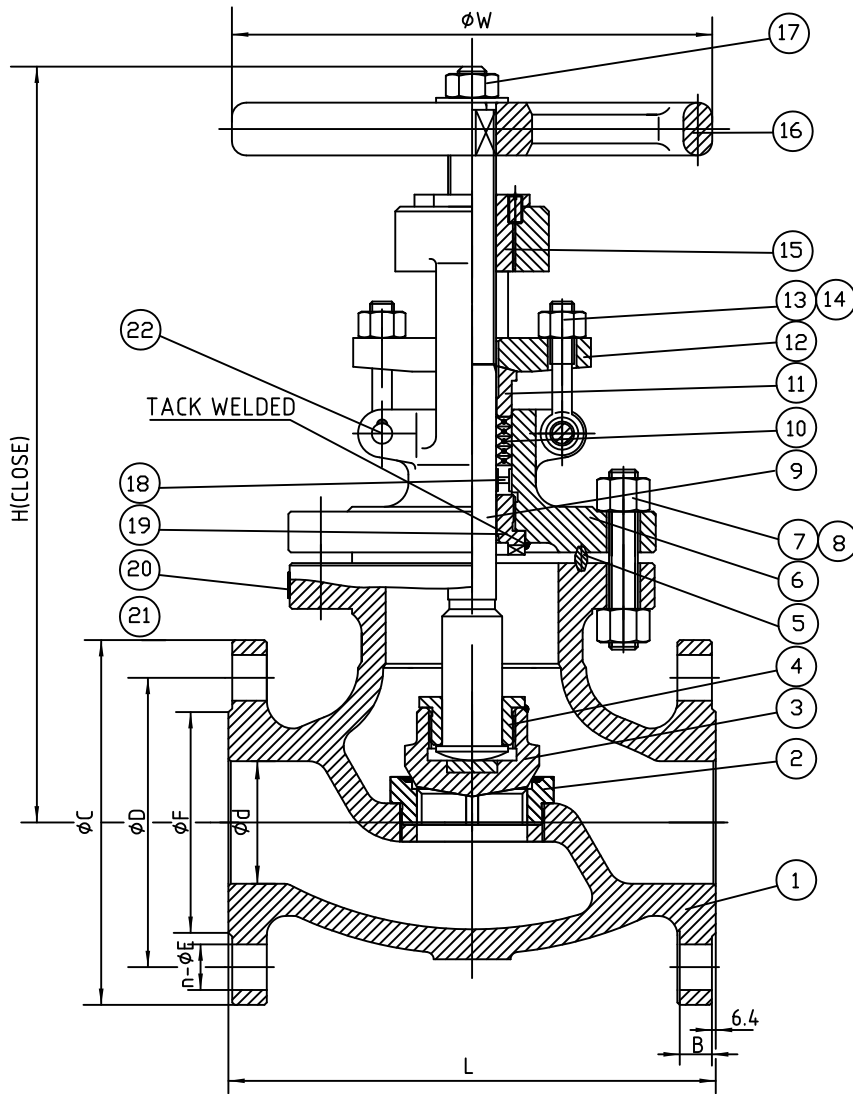
WILLIAM E. WILLIAMS VALVE CORPORATION
 38-52 REVIEW AVENUE, LONG ISLAND CITY, NY 11101
 TEL: 718-392-1660, FAX: 718-729-5106
 WWW.WILLIAMSVALVE.COM

TITLE: CAST STEEL SWING CHECK VALVE CLASS 600 - API TRIM 8 - BUTTWELD	
MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm
CLASS: 600	DATE: 01/01/12
SCALE: N.T.S.	FIG. No.: 601W-2N
SIZE: 2" - 24"	DRAWN BY: F.J.
CHK'D & APR'D BY: R.P.	REV: 1
DWG No.: 60SC120133	

NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598
Δ	1/1/12	RELEASED	F.J.	R.P.	R.P.		BUTTWELD ENDS	ANSI B16.25	SHELL HYDRO 2250PSI
							FACE TO FACE	ANSI B16.10	SEAT AIR 80PSI
							WALL THICKNESS	ANSI B16.34	BACK SEAT HYDRO 1630PSI
								BS1868, ANSI B16.34	NACE MR 0175

Remark: Larger sizes available upon request.

Wm. E. Williams No. 602F2N Class 600 RF OS&Y Globe Valve ASTM A216 WCB (API Trim 8) NACE



ITEM	NAME	MATERIAL	SPECIFICATION	NOTE
1	BODY	CAST STEEL	ASTM A216-WCB	NACE
2	SEAT	CARBON STEEL	ASTM A105+HF	
3	DISC	CARBON STEEL	ASTM A105+13%Cr	
4	DISC COVER	STAINLESS STEEL	ASTM A276-410	
5	GASKET RING JOINT	STEEL	08F	
6	BONNET	CAST STEEL	ASTM A216-WCB	
7	BONNET BOLT	STEEL	ASTM A193-B7M	
8	BONNET NUT	STEEL	ASTM A194-2HM	
9	STEM	STAINLESS STEEL	ASTM A182-F6a	
10	PACKING RING	INCONEL WIRE WITH GRAPHITE		
11	GLAND	STAINLESS STEEL	ASTM A276-410	
12	GLAND FLANGE	CAST STEEL	ASTM A216-WCB	
13	EYE BOLT	STEEL	ASTM A193-B7M	
14	EYE BOLT NUT	STEEL	ASTM A194-2HM	
15	STEM NUT	NODULAR CAST IRON	ASTM A439-D-2	
16	HANDWHEEL	NODULAR CAST IRON		
17	HANDWHEEL NUT	CARBON STEEL	ASTM A29-1035	
18	DISTANCE RING	STAINLESS STEEL	ASTM A276-410	
19	BACKSEAT BUSHING	STAINLESS STEEL	ASTM A276-410	
20	NAMEPLATE	STAINLESS STEEL	304SS	
21	RIVET	STAINLESS STEEL	304SS	
22	PIN	CARBON STEEL	ASTM A29-1035	

SIZE	L	B	C	D	n	E	F	H	W
2"	292	26	165	127	8	19	92	368	250
3"	356	32	210	168	8	22	127	455	350
4"	432	38	273	216	8	25	157	537	400
6"	559	48	356	292	12	29	216	719	500
8"	660	56	419	349	12	32	270	868	560
10"	787	64	508	432	16	35	324	902	640
12"	838	67	559	489	20	35	381	979	720

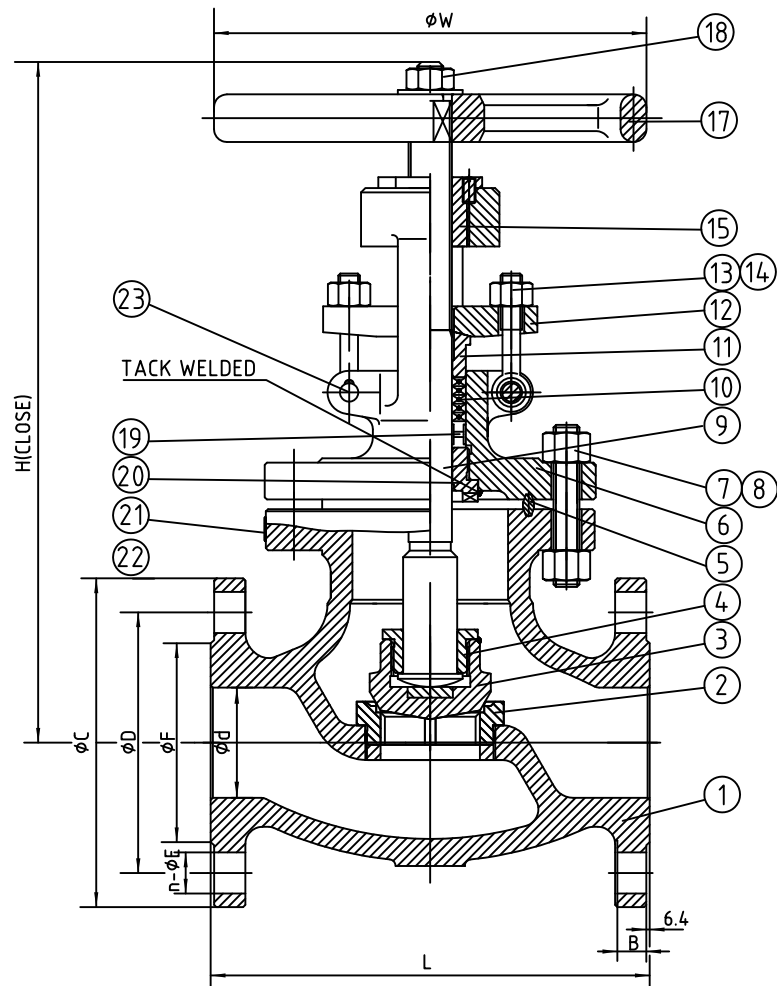
Remark: Larger sizes available upon request

						MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm	
						DIM.OF FLANGE	ANSI B16.5	SHELL HYDRO 2250PSI	CLASS: 600	DATE: 12/31/15	SCALE: N.T.S.
						FACE TO FACE	ANSI B16.10	SEAT AIR 80PSI	SIZE: 2" - 12"	FIG. No.:	602F-2N
						WALL THICKNESS	BS1873	BACK SEAT HYDRO 1630PSI	DRAWN BY: F.J.		
NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	BS1873, ANSI B16.34	NACE MR 0175	CHK'D & APR'D BY: R.P.	REV: 1	DWG No.: 60GL120100-28

WILLIAM E. WILLIAMS VALVE CORPORATION
 38-52 REVIEW AVENUE LONG ISLAND CITY, NY 11101
 TEL: 718-392-1660 FAX: 718-729-5105

TITLE: CAST STEEL GLOBE VALVE CLASS 600 - API TRIM 8 - B,B RF

Wm. E. Williams No. 602F62N Class 600 RF OS&Y Globe Valve ASTM A216 WCB (API Trim 12) NACE



ITEM	NAME	MATERIAL	SPECIFICATION	NOTE
1	BODY	CAST STEEL	ASTM A216-WCB	NACE
2	SEAT	CARBON STEEL	ASTM A105+HF	
3	DISC	CARBON STEEL	ASTM A216-WCB+316	
4	DISC COVER	STAINLESS STEEL	ASTM A276-410	
5	GASKET RING JOINT	STEEL	08F	
6	BONNET	CAST STEEL	ASTM A216-WCB	
7	BONNET BOLT	STEEL	ASTM A193-B7M	
8	BONNET NUT	STEEL	ASTM A194-2HM	
9	STEM	STAINLESS STEEL	ASTM A182-F316	
10	PACKING RING	INCONEL WIRE WITH GRAPHITE		
11	GLAND	STAINLESS STEEL	ASTM A276-410	
12	GLAND FLANGE	CAST STEEL	ASTM A216-WCB	
13	EYE BOLT	STEEL	ASTM A193-B7M	
14	EYE BOLT NUT	STEEL	ASTM A194-2HM	
15	STEM NUT	MODULAR CAST IRON	ASTM A439-D-2	
17	HANDWHEEL	MODULAR CAST IRON		
18	HANDWHEEL NUT	CARBON STEEL	ASTM A29-1035	
19	DISTANCE RING	STAINLESS STEEL	ASTM A276-410	
20	BACKSEAT BUSHING	STAINLESS STEEL	ASTM A276-410	
21	NAMEPLATE	STAINLESS STEEL	304SS	
22	RIVET	STAINLESS STEEL	304SS	
23	PIN	CARBON STEEL	ASTM A29-1035	

SIZE	L	B	C	D	n	E	F	H	W
2"	292	26	165	127	8	19	92	368	250
3"	356	32	210	168	8	22	127	455	350
4"	432	38	273	216	8	25	157	537	400
6"	559	48	356	292	12	29	216	719	500
8"	660	56	419	349	12	32	270	868	560
10"	787	64	508	432	16	35	324	902	640
12"	838	67	559	489	20	35	381	979	720

Remark: Larger sizes available upon request

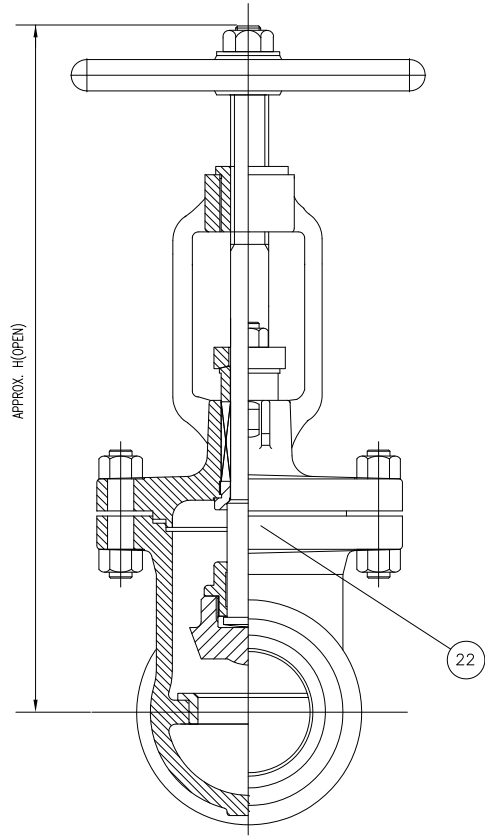
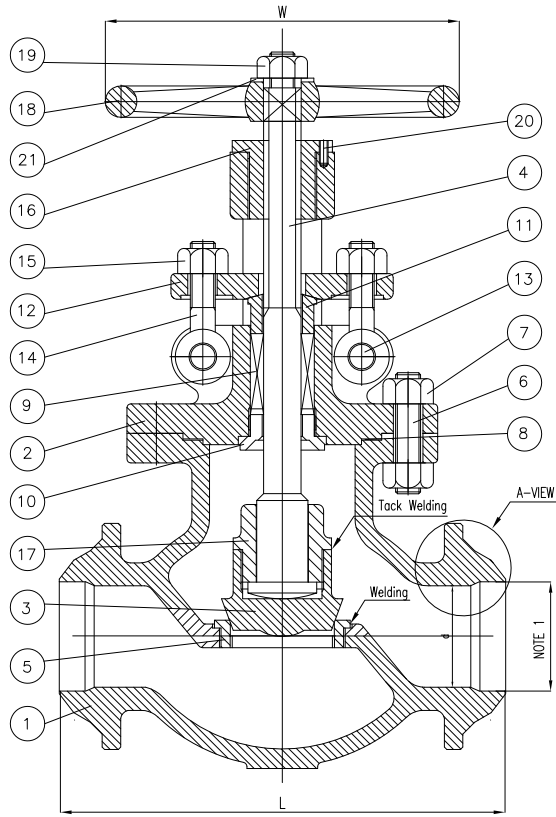
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 VALVE CORPORATION
38-52 REVIEW AVENUE
 LONG ISLAND CITY, NY 11101
 TEL: 718-392-1660
 FAX: 718-729-5108

TITLE:		CAST STEEL GLOBE VALVE CLASS 600 - API TRIM 12 - B, B RF	
MATERIAL: ASTM A216 GR. WCB	UNITS: Inch, mm	CLASS: 600	DATE: 12/31/15
FACE TO FACE: ANSI B16.10	SEAT: AIR	80PSI	SCALE: N.T.S.
WALL THICKNESS: BS1873	BACK SEAT: HYDRO	1630PSI	FIG. No.: 602F-62N
NO. DATE	DESCRIPTION	PRP'D	REV'D
DESIGNED	BS1873, ANSI B16.34	NACE MR 0175	CHK'D & APR'D BY: R.P.
			REV: 1
			DWG No.: 60GL120025-28

MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598						
DIM. OF FLANGE	ANSI B16.5	SHELL HYDRO 2250PSI						
FACE TO FACE	ANSI B16.10	SEAT AIR 80PSI						
WALL THICKNESS	BS1873	BACK SEAT HYDRO 1630PSI						
NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	BS1873, ANSI B16.34	NACE MR 0175

Wm. E. Williams No. 602W2N Class 600 BW Globe Valve ASTM A 216 WCB (API Trim 8) NACE

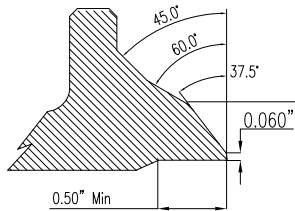


BILL OF MATERIALS			
NO.	PART NAME	MATERIALS	Q'TY
1	BODY	A216Gr WCB	1
2	BONNET	A216Gr WCB	1
3	DISC	A216Gr WCB + 13Cr Faced	1
4	STEM	A479 410	1
5	SEAT RING	A105N + HF	1
6	BONNET BOLT	A193Gr B7M	1SET
7	BONNET NUT	A194Gr 2HM	1SET
8	GASKET	304 + GRAPHITE	1
9	PACKING	GRAPHITE WITH CORROSION INHIBITOR AND DIE FORMED RINGS	1SET
10	BACK SEAT	A479Gr 410	1
11	GLAND RING	A479Gr 410	1
12	GLAND FLANGE	WCB	1
13	HINGE PIN	410	2
14	GLAND BOLT	A193Gr B7M	2
15	GLAND NUT	A194Gr 2HM	2
16	BONNET BUSH	A439Gr D2C	1
17	DISC NUT	A217Gr CA15	1
18	HAND WHEEL	A197	1
19	HANDLE NUT	A194Gr 2HM	1
20	SET SCREW	STEEL	1
21	WASHER	STEEL	1
22	NAME PLATE	STAINLESS STEEL	1

NOTE:
1. SPECIFY PIPE SCHEDULE No. REQUIRED.

VALVE SIZE	d	L	H	W
2.00	2.00	11.50	15.50	9.50
2.50	2.50	13.00	17.00	11.00
3.00	3.00	14.00	19.00	13.00
4.00	4.00	17.00	21.00	14.00
5.00	5.00	20.00	25.00	15.75
6.00	6.00	22.00	26.87	18.00
8.00	8.00	26.00	35.00	20.00
10.00	10.00	31.00	49.00	24.00
12.00	12.00	33.00	58.00	30.00

Remark: Larger sizes available upon request.



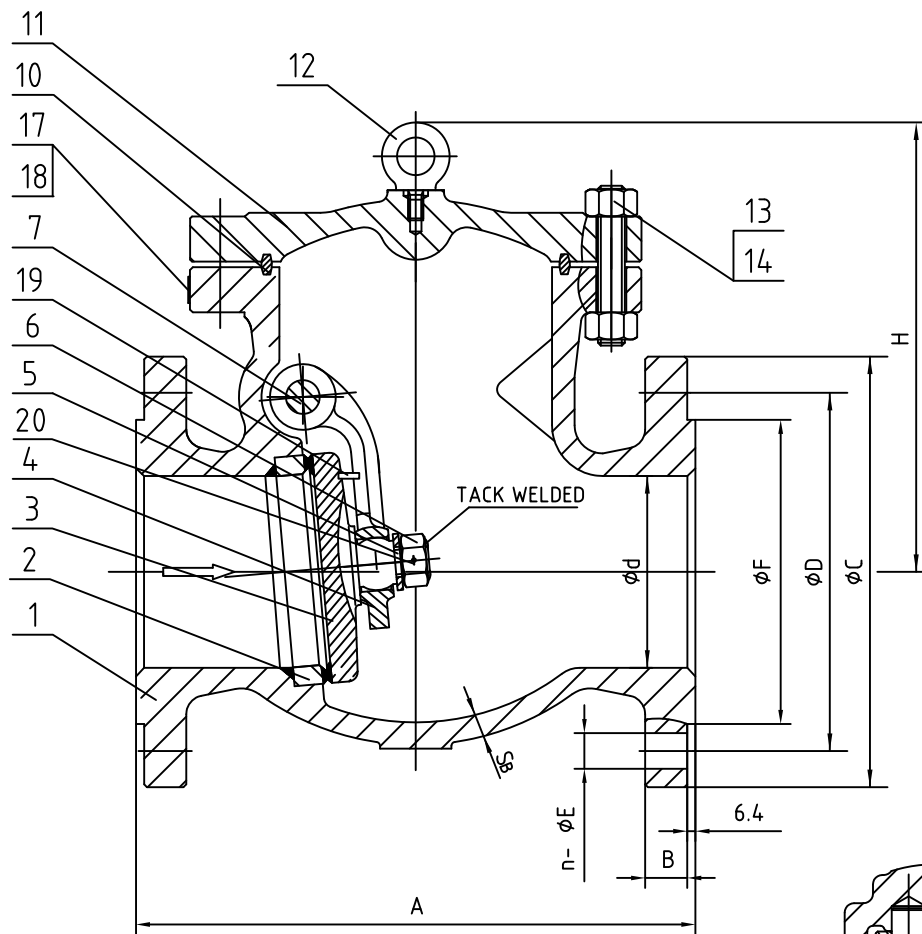
A-VIEW

NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	BS1873, ANSI B16.34	NACE MR 0175	CHK'D & APR'D BY: R.P.	REV: 1	DWG No.: 60GL120125		
△	1/1/12	RELEASED	F.J.	R.P.	R.P.	MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm			
						BUTTWELDING END	ANSI B16.25	SHELL	HYDRO	2250PSI	CLASS: 600	DATE: 1/1/12	SCALE: N.T.S.
						FACE TO FACE	ANSI B16.10	SEAT	AIR	80PSI	SIZE: 2" - 12"	FIG. No.:	602W-2N
						WALL THICKNESS	BS1873	BACK SEAT	HYDRO	1630PSI	DRAWN BY: F.J.		

WILLIAM E. WILLIAMS VALVE CORPORATION
 38-52 REVIEW AVENUE LONG ISLAND CITY, NY 11101
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TITLE: CAST STEEL GLOBE VALVE CLASS 600 - API TRIM 8 - B,B BUTTWELD END

Wm. E. Williams No. 901F2N Class 900 RF Swing Check Valve ASTM A216 WCB (API Trim 8) NACE



ITEM	NAME	MATERIAL	SPECIFICATION	NOTE
1	BODY	CAST STEEL	ASTM A216-WCB	NACE
2	BODY RING	CARBON STEEL	ASTM A105+HF	
3	DISC	CARBON STEEL	ASTM A105+13%Cr	
4	HINGE	CAST STEEL	ASTM A216-WCB	
5	GASKET	STAINLESS STEEL	ASTM A276-410	
6	NUT	STAINLESS STEEL	ASTM A276-410	
7	PIN	STAINLESS STEEL	ASTM A276-410	
10	GASKET, RING JOINT	STEEL	08F	
11	BONNET	CAST STEEL	ASTM A216-WCB	
12	EYEBOLT	CARBON STEEL	ASTM A29-1035	
13	NUT	STEEL	ASTM A194-2HM	
14	BOLT	STEEL	ASTM A193-B7M	
15	GASKET	STAINLESS STEEL	ASTM A276-304	
16	PLUG	STAINLESS STEEL	ASTM A276-410	
17	NAMEPLATE	STAINLESS STEEL	304SS	
18	RIVET	STAINLESS STEEL	304SS	
19	PIN	CARBON STEEL	ASTM A29-1020	
20	PIN	STAINLESS STEEL	316SS	

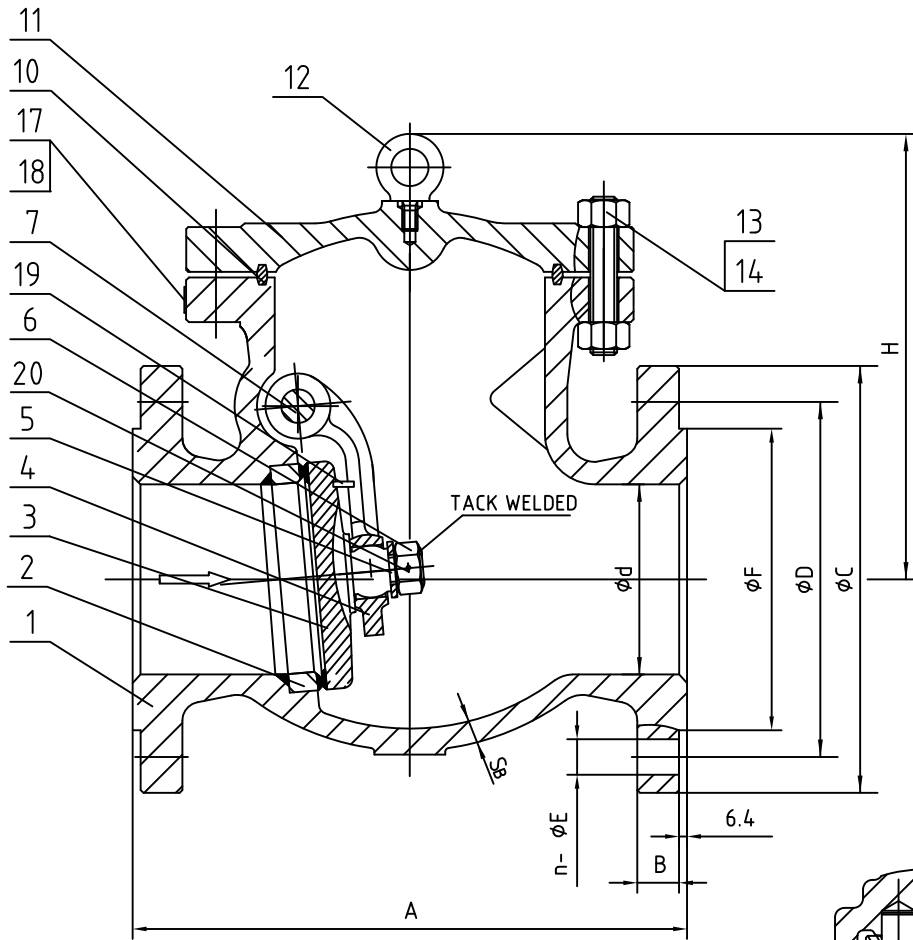
SIZE	d	A	B	C	D	n	E	F	H	S _B
2-1/2"	57	419.1	41.5	244	190.5	8	29	105	293	22.2
3"	73	381	38.5	241	190.5	8	26	127	254	19.1
4"	98	457	44.5	292	234.9	8	32	157	276	21.4
6"	146	610	56	381	317.5	12	32	216	375	26.2
8"	190	737	63.5	470	393.7	12	39	270	505	32
10"	238	838	70	545	469.9	16	39	324	500	36.6
12"	282	965	79.5	610	533.4	20	39	381	566	42.2

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 WWW.WILLIAMSVALVE.COM

TITLE: CAST STEEL SWING CHECK VALVE CLASS 900 - API TRIM 8 - BC, RF

4/6/15	RE-RELEASED	F.J.	R.P.	R.P.	MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm
3/15/13	RE-RELEASED	F.J.	R.P.	R.P.	DIM.OF FLANGE	ANSI B16.5	SHELL HYDRO 3350PSI	CLASS: 900	DATE: 01/01/12
1/1/12	RELEASED	F.J.	R.P.	R.P.	FACE TO FACE	ANSI B16.10	SEAT AIR N/A	SIZE: 2.5" - 12"	SCALE: N.T.S.
					WALL THICKNESS	ANSI B16.34	HPC SEAT HYDRO 2450PSI	DRAWN BY: F.J.	FIG. No.: 901F-2N
NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	API 594, ANSI B16.34	NACE MR0175	CHK'D & APR'D BY: R.P.
									REV: 3 DWG No.: 60SC120130-28

Wm. E. Williams No. 901F62N Class 900 RF Swing Check Valve ASTM A 216 WCB (API Trim 12) NACE



ITEM	NAME	MATERIAL	SPECIFICATION	NOTE
1	BODY	CAST STEEL	ASTM A216-WCB	NACE
2	BODY RING	CARBON STEEL	ASTM A105+HF	
3	DISC	CARBON STEEL	ASTM A105+316	
4	HINGE	CAST STEEL	ASTM A216-WCB	
5	GASKET	STAINLESS STEEL	ASTM A276-316	
6	NUT	STAINLESS STEEL	ASTM A276-316	
7	PIN	STAINLESS STEEL	ASTM A276-316	
10	GASKET, RING JOINT	STEEL	SS316	
11	BONNET	CAST STEEL	ASTM A216-WCB	
12	EYEBOLT	CARBON STEEL	ASTM A29-1035	
13	NUT	STEEL	ASTM A194-2HM	
14	BOLT	STEEL	ASTM A193-B7M	
15	GASKET	STAINLESS STEEL	ASTM A276-304	
16	PLUG	STAINLESS STEEL	ASTM A276-410	
17	NAMEPLATE	STAINLESS STEEL	304SS	
18	RIVET	STAINLESS STEEL	304SS	
19	PIN	CARBON STEEL	ASTM A29-1020	
20	PIN	STAINLESS STEEL	316SS	

SIZE	d	A	B	C	D	n	E	F	H	S _b
2-1/2"	57	419.1	41.5	24.4	190.5	8	29	105	293	22.2
3"	73	381	38.5	24.1	190.5	8	26	127	254	19.1
4"	98	457	44.5	29.2	234.9	8	32	157	276	21.4
6"	146	610	56	38.1	317.5	12	32	216	375	26.2
8"	190	737	63.5	47.0	393.7	12	39	270	505	32
10"	238	838	70	54.5	469.9	16	39	324	500	36.6
12"	282	965	79.5	61.0	533.4	20	39	381	566	42.2

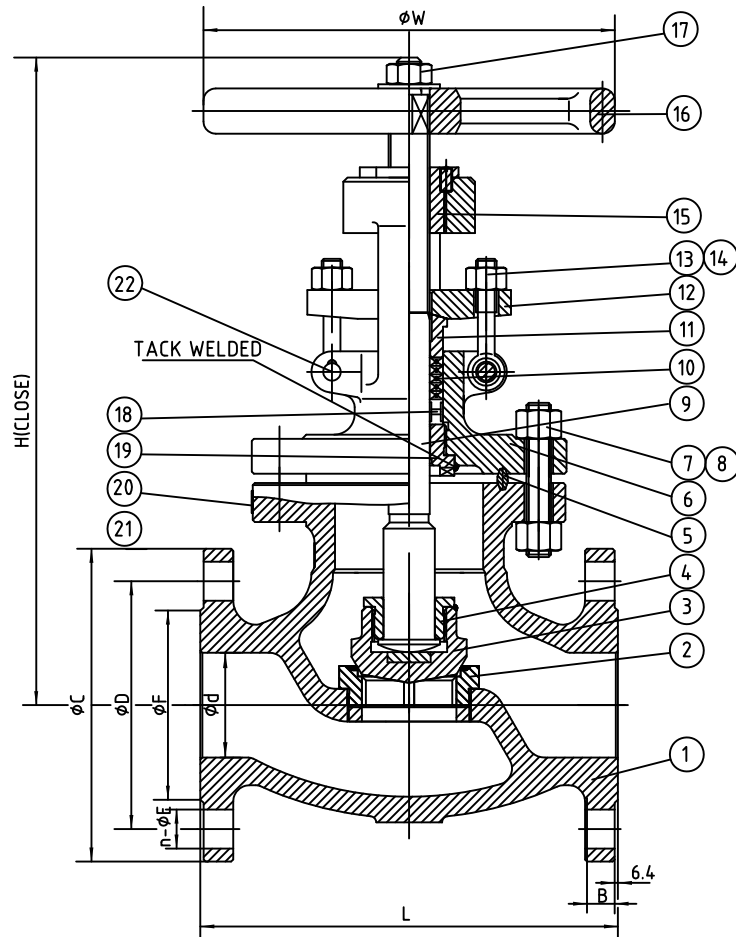
WILLIAM E. WILLIAMS VALVE CORPORATION
 38-52 REVIEW AVENUE LONG ISLAND CITY, NY 11101
 TEL: 718-392-1660 FAX: 718-729-5166
 WWW.WILLIAMSVALVE.COM

TITLE: CAST STEEL SWING CHECK VALVE CLASS 900 - API TRIM 12 - BOLTED COVER

						MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm	
						DIM.OF FLANGE	ANSI B16.5	SHELL HYDRO 3350PSI	CLASS: 900	DATE: 04/06/15	SCALE: N.T.S.
						FACE TO FACE	ANSI B16.10	SEAT AIR N/A	SIZE: 2.5" - 12"	FIG. No.:	901F-62N
						WALL THICKNESS	ANSI B16.34	HPC SEAT HYDRO 2450PSI	DRAWN BY: F.J.		
NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	API 594, ANSI B16.34	NACE MR 0175	CHK'D & APR'D BY: R.P.	REV: 1	DWG No.: 60SC120082-28

4/6/15	RELEASED	F.J.	R.P.	R.P.	
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Wm. E. Williams No. 902F2N Class 900 RF Globe Valve ASTM A 216 WCB (API Trim 8) NACE



ITEM	NAME	MATERIAL	SPECIFICATION	NOTE
1	BODY	CAST STEEL	ASTM A216-WCB	NACE
2	SEAT	CARBON STEEL	ASTM A105+HF	
3	DISC	CARBON STEEL	ASTM A105+13%Cr	
4	DISC COVER	STAINLESS STEEL	ASTM A276-410	
5	GASKET RING JOINT	STEEL	08F	
6	BONNET	CAST STEEL	ASTM A216-WCB	
7	BONNET BOLT	STEEL	ASTM A193-B7M	
8	BONNET NUT	STEEL	ASTM A194-2HM	
9	STEM	STAINLESS STEEL	ASTM A182-F6a	
10	PACKING RING	INCONEL WIRE WITH GRAPHITE		
11	GLAND	STAINLESS STEEL	ASTM A276-410	
12	GLAND FLANGE	CAST STEEL	ASTM A216-WCB	
13	EYE BOLT	STEEL	ASTM A193-B7M	
14	EYE BOLT NUT	STEEL	ASTM A194-2HM	
15	STEM NUT	NODULAR CAST IRON	ASTM A439-D-2	
16	HANDWHEEL	NODULAR CAST IRON		
17	HANDWHEEL NUT	CARBON STEEL	ASTM A29-1035	
18	DISTANCE RING	STAINLESS STEEL	ASTM A276-410	
19	BACKSEAT BUSHING	STAINLESS STEEL	ASTM A276-410	
20	NAMEPLATE	STAINLESS STEEL	304SS	
21	RIVET	STAINLESS STEEL	304SS	
22	PIN	CARBON STEEL	ASTM A29-1035	

SIZE	L	B	C	D	n	E	F	H	W
2"	368	38.5	216	165.1	8	26	92	478	350
3"	381	38.5	241	190.5	8	26	127	614	400
4"	457	44.5	292	234.9	8	32	157	789	450
6"	610	56.0	381	317.5	12	32	216	886	560
8"	737	63.5	470	393.7	12	39	270	932	640
10"	838	70.0	546	469.9	16	39	324	1040	640

Remark: Larger sizes available upon request



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LONG ISLAND CITY, NY 11101

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FAX: 718-729-5106

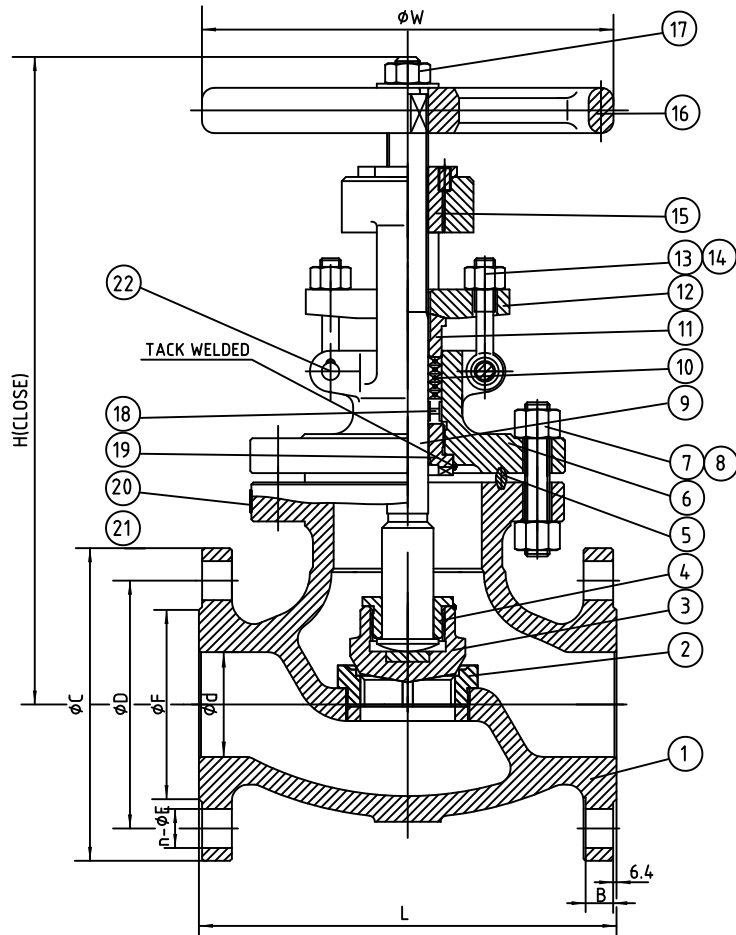
WWW.WILLIAMSVALVE.COM

TITLE: CAST STEEL GLOBE VALVE
CLASS 900 - API TRIM 8 - B, B R, F OS&Y

						MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598		MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm		
						DIM.OF FLANGE	ANSI B16.5	SHELL	HYDRO	3350PSI	CLASS: 900	DATE: 12/31/15	SCALE: N.T.S.
						FACE TO FACE	ANSI B16.10	SEAT	AIR	80PSI	SIZE: 2" - 10"	FIG. No.: 902F2N	
						WALL THICKNESS	BS1873	BACK SEAT	HYDRO	2450PSI	DRAWN BY: F.J.		
											CHK'D & APR'D BY: R.P.	REV: 1	DWG No.: 60GL120120-28
NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	BS1873, ANSI B16.34	NACE MR 0175					

12/31/15	RELEASED	F.J.	R.P.	R.P.	
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Wm. E. Williams No. 902F62N Class 900 RF Globe Valve ASTM A 216 WCB (API Trim 12) NACE



ITEM	NAME	MATERIAL	SPECIFICATION	NOTE
1	BODY	CAST STEEL	ASTM A216-WCB	NACE
2	SEAT	CARBON STEEL	ASTM A105+HF	
3	DISC	CARBON STEEL	ASTM A216-WCB+316	
4	DISC COVER	STAINLESS STEEL	ASTM A276-410	
5	GASKET RING JOINT	STEEL	08F	
6	BONNET	CAST STEEL	ASTM A216-WCB	
7	BONNET BOLT	STEEL	ASTM A193-B7M	
8	BONNET NUT	STEEL	ASTM A194-2HM	
9	STEM	STAINLESS STEEL	ASTM A182-F316	
10	PACKING RING	INCONEL WIRE WITH GRAPHITE		
11	GLAND	STAINLESS STEEL	ASTM A276-410	
12	GLAND FLANGE	CAST STEEL	ASTM A216-WCB	
13	EYE BOLT	STEEL	ASTM A193-B7M	
14	EYE BOLT NUT	STEEL	ASTM A194-2HM	
15	STEM NUT	NODULAR CAST IRON	ASTM A439-D-2	
16	HANDWHEEL	NODULAR CAST IRON		
17	HANDWHEEL NUT	CARBON STEEL	ASTM A29-1035	
18	DISTANCE RING	STAINLESS STEEL	ASTM A276-410	
19	BACKSEAT BUSHING	STAINLESS STEEL	ASTM A276-410	
20	NAMEPLATE	STAINLESS STEEL	304SS	
21	RIVET	STAINLESS STEEL	304SS	
22	PIN	CARBON STEEL	ASTM A29-1035	

SIZE	L	B	C	D	n	E	F	H	W
2"	368	38.5	216	165.1	8	26	92	478	350
3"	381	38.5	241	190.5	8	26	127	614	400
4"	457	44.5	292	234.9	8	32	157	789	450
6"	610	56.0	381	317.5	12	32	216	886	560
8"	737	63.5	470	393.7	12	39	270	932	640
10"	838	70.0	546	469.9	16	39	324	1040	640

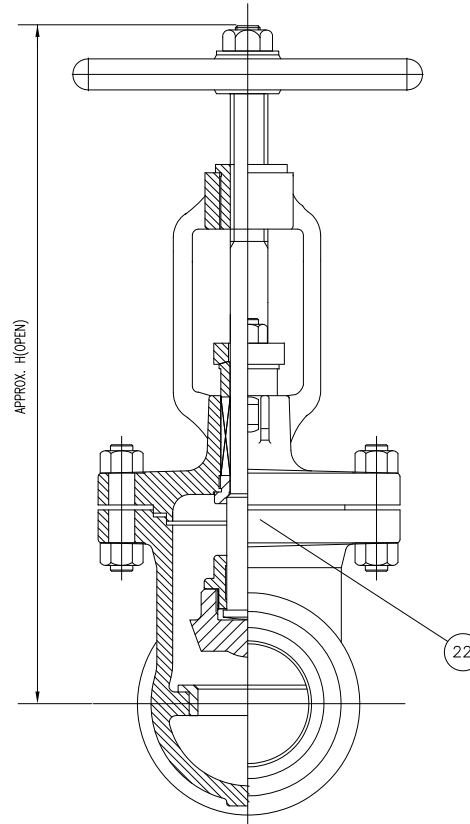
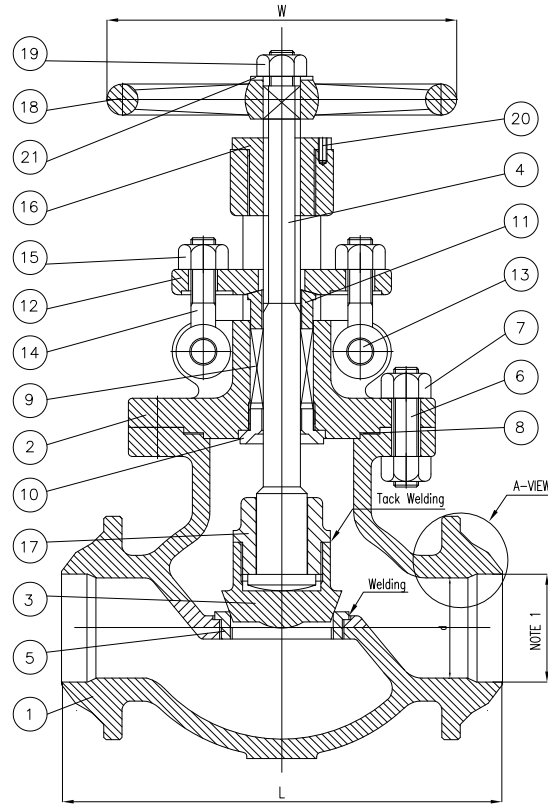
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TITLE: CAST STEEL GLOBE VALVE CLASS 900 - API TRIM 12 - B,B R,F OS&Y		MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm
CLASS: 900	DATE: 01/04/16	SCALE: N.T.S.	FIG. No.: 902F62N
SIZE: 2" - 10"	DRAWN BY: F.J.	CHK'D & APR'D BY: R.P.	REV: 1
WALL THICKNESS: BS1873	BACK SEAT: HYDRO 2450PSI	DESIGNED: BS1873, ANSI B16.34	NACE MR 0175
MARKING SYSTEM: MSS-SP-25	INSPECTION & TEST: API 598	DWG No.: 60GL120202-28	

NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED
Δ	1/4/16	RELEASED	F.J.	R.P.	R.P.	

Wm. E. Williams No. 902W2N Class 900 BW Globe Valve ASTM A 216 WCB (API Trim 8) NACE

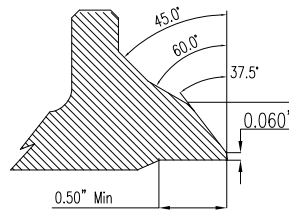


BILL OF MATERIALS			
NO.	PART NAME	MATERIALS	Q'TY
1	BODY	A216Gr WCB	1
2	BONNET	A216Gr WCB	1
3	DISC	A216Gr WCB + 13Cr Faced	1
4	STEM	A479 410	1
5	SEAT RING	A105N + HF	1
6	BONNET BOLT	A193Gr B7M	1SET
7	BONNET NUT	A194Gr 2HM	1SET
8	GASKET	304 + GRAPHITE	1
9	PACKING	GRAPHITE WITH CORROSION INHIBITOR AND DIE FORMED RINGS	1SET
10	BACK SEAT	A479Gr 410	1
11	GLAND RING	A479Gr 410	1
12	GLAND FLANGE	WCB	1
13	HINGE PIN	410	2
14	GLAND BOLT	A193Gr B7M	2
15	GLAND NUT	A194Gr 2HM	2
16	BONNET BUSH	A439Gr D2C	1
17	DISC NUT	A217Gr CA15	1
18	HAND WHEEL	A197	1
19	HANDLE NUT	A194Gr 2HM	1
20	SET SCREW	STEEL	1
21	WASHER	STEEL	1
22	NAME PLATE	STAINLESS STEEL	1

NOTE:
1. SPECIFY PIPE SCHEDULE No. REQUIRED.

VALVE SIZE	d	L	H	W
2.00	2.00	14.50	20.50	12.00
3.00	3.00	15.00	22.75	14.00
4.00	4.00	18.00	26.50	21.50
6.00	6.00	24.00	36.00	20.00
8.00	8.00	29.00	37.00	24.00

Remark: Larger sizes available upon request.



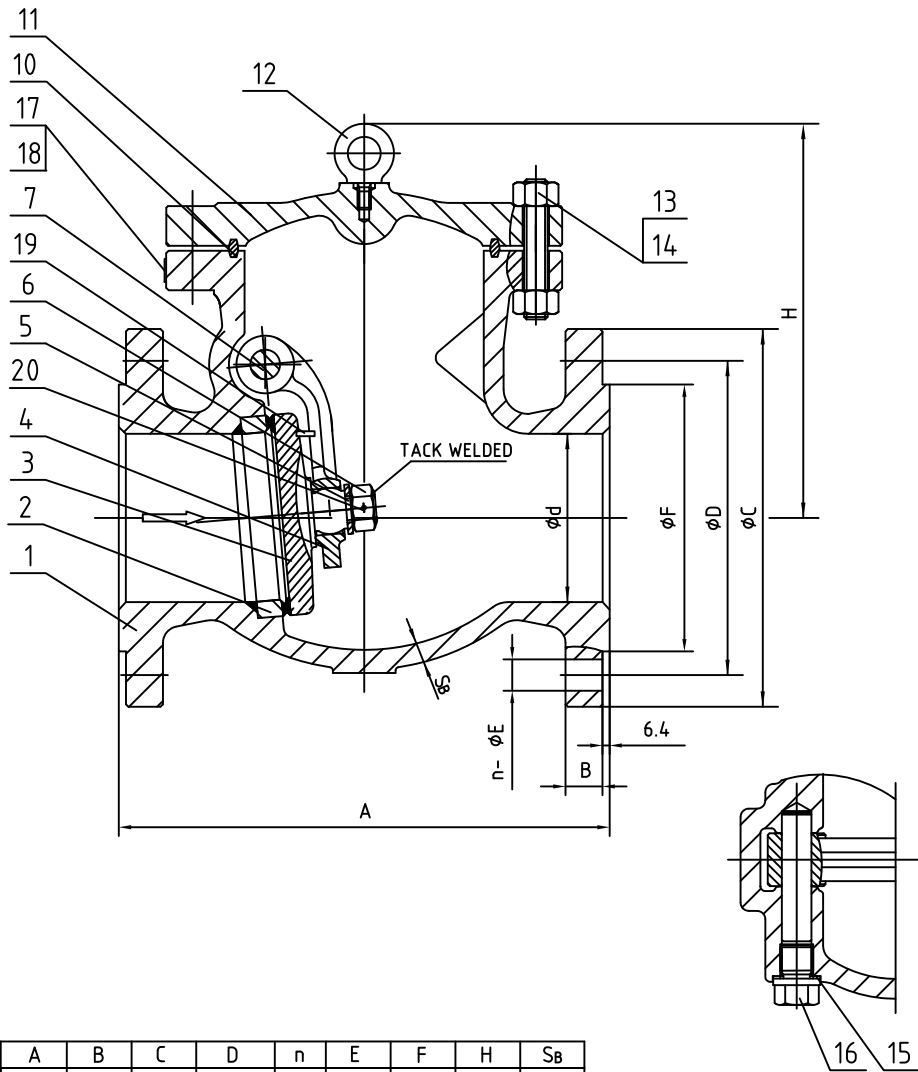
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WILLIAM E. WILLIAMS VALVE CORPORATION
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 TEL: 718-392-1660 FAX: 718-729-5106

TITLE: CAST STEEL GLOBE VALVE CLASS 900 - API TRIM 8 - B,B BUTTWELD END		MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm
CLASS: 900	DATE: 01/01/12	SCALE: N.T.S.	FIG. No.: 902W-2N
SIZE: 2" - 8"	DRAWN BY: F.J.	CHK'D & APR'D BY: R.P.	DWG No.: 60GL120126

NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598
							DIM.OF FLANGE	ANSI B16.5	SHELL HYDRO 3350PSI
							FACE TO FACE	ANSI B16.10	SEAT AIR 80PSI
							WALL THICKNESS	BS1873	BACK SEAT HYDRO 2450PSI
								BS1873, ANSI B16.34	NACE MR 0175

Wm. E. Williams No. 1501F2N Class 1500 RF Swing Check Valve ASTM A216 WCB (API Trim 8) NACE



ITEM	NAME	MATERIAL	SPECIFICATION	NOTE
1	BODY	CAST STEEL	ASTM A216-WCB	NACE
2	BODY RING	CARBON STEEL	ASTM A105+HF	
3	DISC	CARBON STEEL	ASTM A105+13%Cr	
4	HINGE	CAST STEEL	ASTM A216-WCB	
5	GASKET	STAINLESS STEEL	ASTM A276-410	
6	NUT	STAINLESS STEEL	ASTM A276-410	
7	PIN	STAINLESS STEEL	ASTM A276-410	
10	GASKET, RING JIONT	STEEL	08F	
11	BONNET	CAST STEEL	ASTM A216-WCB	
12	EYEBOLT	CARBON STEEL	ASTM A29-1035	
13	NUT	STEEL	ASTM A194-2HM	
14	BOLT	STEEL	ASTM A193-B7M	
15	GASKET	STAINLESS STEEL	ASTM A276-304	
16	PLUG	STAINLESS STEEL	ASTM A276-410	
17	NAMEPLATE	STAINLESS STEEL	304SS	
18	RIVET	STAINLESS STEEL	304SS	
19	PIN	CARBON STEEL	ASTM A29-1020	
20	PIN	STAINLESS STEEL	316SS	

SIZE	d	A	B	C	D	n	E	F	H	S _B
3"	70	470	48	267	203.2	8	32	127	324	23.9
6"	136	705	83	394	317.5	12	39	216	467	38.1
8"	178	832	92.9	483	393.7	12	45	270	530	47.8
10"	222	991	108	585	482.6	12	51	324	567	57.2

OTHER SIZES AVAILABLE.

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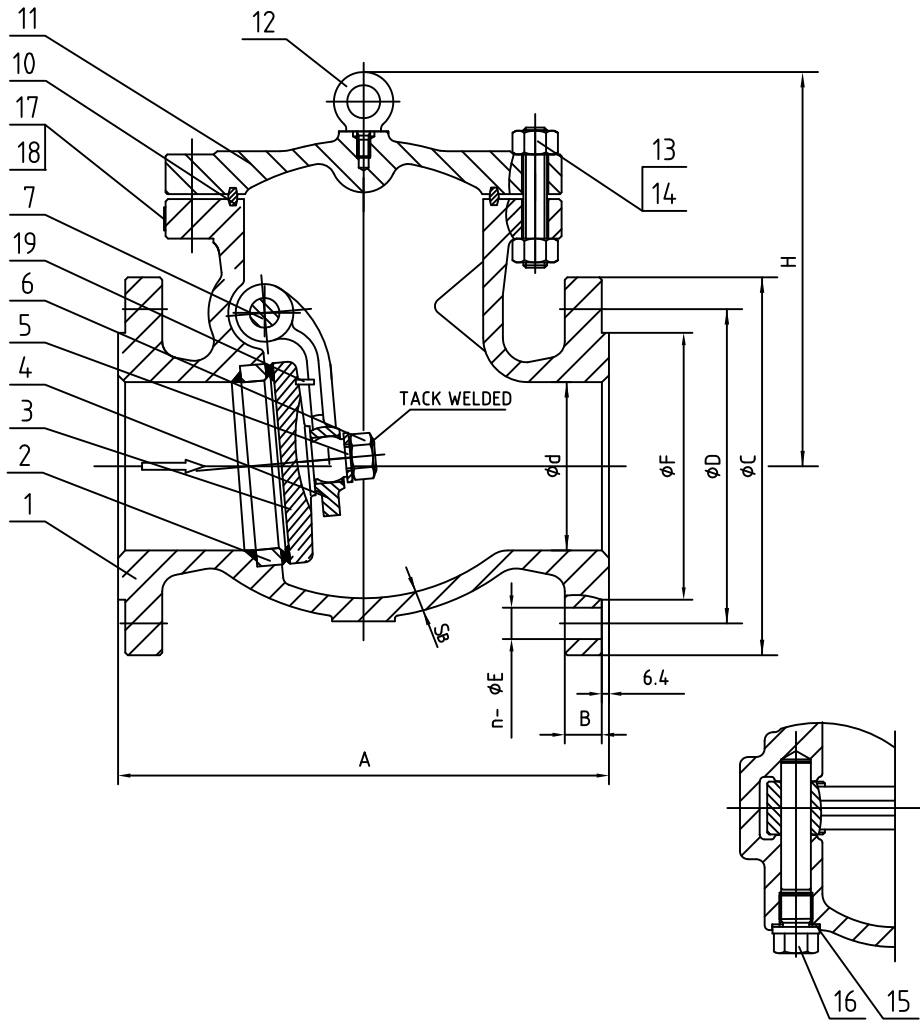
WILLIAMS
 VALVE CORPORATION
38-52 REVIEW AVENUE
 LONG ISLAND CITY, NY 11101
 TEL: 718-392-1660
 FAX: 718-729-5106

TITLE: CAST STEEL SWING CHECK VALVE
 CLASS 1500 - API TRIM 8 - BC. RF

						MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm	
						DIM.OF FLANGE	ANSI B16.5	SHELL HYDRO 5598PSI	CLASS: 1500	DATE: 03/31/15	SCALE: N.T.S.
						FACE TO FACE	ANSI B16.10	SEAT AIR N/A	SIZE: 3" - 10"		FIG. No.: 1501F-2N
						WALL THICKNESS	ANSI B16.34	HPC SEAT HYDRO 4100PSI	DRAWN BY: F.J.		
NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	API 594, ANSI B16.34	NACE MR0175	CHK'D & APR'D BY: R.P.	REV: 1	DWG No.: 60SC120131-28

3/31/15	RELEASED	F.J.	R.P.	R.P.
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Wm. E. Williams No. 1501F62N Class 1500 RF Swing Check Valve ASTM A216 WCB (API Trim 12) NACE



ITEM	NAME	MATERIAL	SPECIFICATION	NOTE
1	BODY	CAST STEEL	ASTM A216-WCB	NACE
2	BODY RING	CARBON STEEL	ASTM A105+HF	
3	DISC	CARBON STEEL	ASTM A105+316	
4	HINGE	CAST STEEL	ASTM A216-WCB	
5	GASKET	STAINLESS STEEL	ASTM A276-316	
6	NUT	STAINLESS STEEL	ASTM A276-316	
7	PIN	STAINLESS STEEL	ASTM A276-316	
10	GASKET, RING JIONT	STEEL	SS316	
11	BONNET	CAST STEEL	ASTM A216-WCB	
12	EYEBOLT	CARBON STEEL	ASTM A29-1035	
13	NUT	STEEL	ASTM A194-2HM	
14	BOLT	STEEL	ASTM A193-B7M	
15	GASKET	STAINLESS STEEL	ASTM A276-304	
16	PLUG	STAINLESS STEEL	ASTM A276-410	
17	NAMEPLATE	STAINLESS STEEL	304SS	
18	RIVET	STAINLESS STEEL	304SS	
19	PIN	CARBON STEEL	ASTM A29-1020	

SIZE	d	A	B	C	D	n	E	F	H	S _b
3"	70	470	48	267	203.2	8	32	127	324	23.9
6"	136	705	83	394	317.5	12	39	216	467	38.1
8"	178	832	92.9	483	393.7	12	45	270	530	47.8
10"	222	991	108	585	482.6	12	51	324	567	57.2

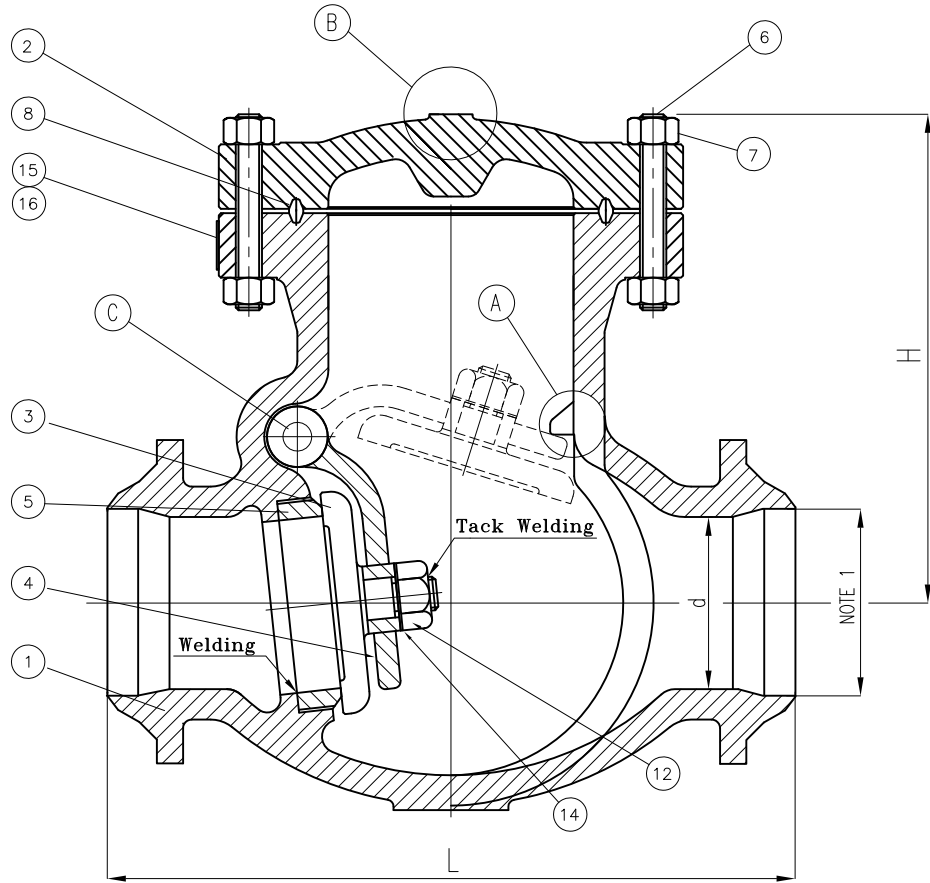
OTHER SIZES AVAILABLE.

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TITLE: CAST STEEL SWING CHECK VALVE
 CLASS 1500 - API TRIM 12 - BC. RF

						MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm	
						DIM.OF FLANGE	ANSI B16.5	SHELL HYDRO 5590PSI	CLASS: 1500	DATE: 03/31/15	SCALE: N.T.S.
						FACE TO FACE	ANSI B16.10	SEAT AIR N/A	SIZE: 3" - 10"	FIG. No.: 1501F-62N	
						WALL THICKNESS	ANSI B16.34	HPC SEAT HYDRO 4100PSI	DRAWN BY: F.J.		
NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	API 594, ANSI B16.34	NACE MR0175	CHK'D & APR'D BY: R.P.	REV: 1	DWG No.: 60SC120205-28

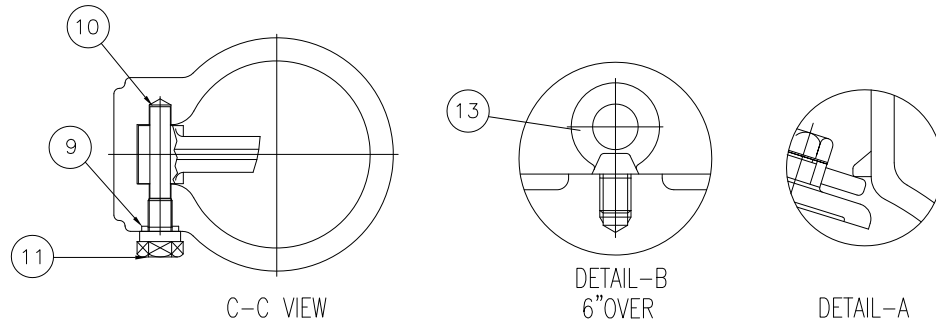
Wm. E. Williams No. 1501W2N Class 1500 BW Swing Check Valve A216 WCB (API Trim 8) NACE



NO.	PART NAME	MATERIAL	Q'TY
1	BODY	A216Gr WCB	1
2	COVER	A216Gr WCB	1
3	DISC	A216 GR WCB + 13Cr Faced	1
4	ARM	A216Gr WCB	1
5	SEAT RING	A105N + HF	1
6	COVER BOLT	A193Gr B7M	1SET
7	COVER NUT	A194Gr 2HM	1SET
8	GASKET, RING JOINT	304 + GRAPHITE	1
9	PIN GASKET	410	1
10	HINGE PIN	A479Gr 410	1
11	HINGE BOLT	A193Gr B7M	1
12	DISC NUT	A194Gr 2HM	1
13	EYE BOLT	A193Gr B7M	1
14	WASHER	STEEL	1
15	NAME PLATE	STAINLESS STEEL	1
16	RIVET	STAINLESS STEEL	2

NOTE:
1. SPECIFY PIPE SCHEDULE No. REQUIRED.

SIZE	d	L	H
2.00	2.00	14.50	8.37
3.00	3.00	18.50	9.25
4.00	4.00	21.50	11.00
6.00	6.00	27.75	13.75
8.00	7.88	32.75	18.00



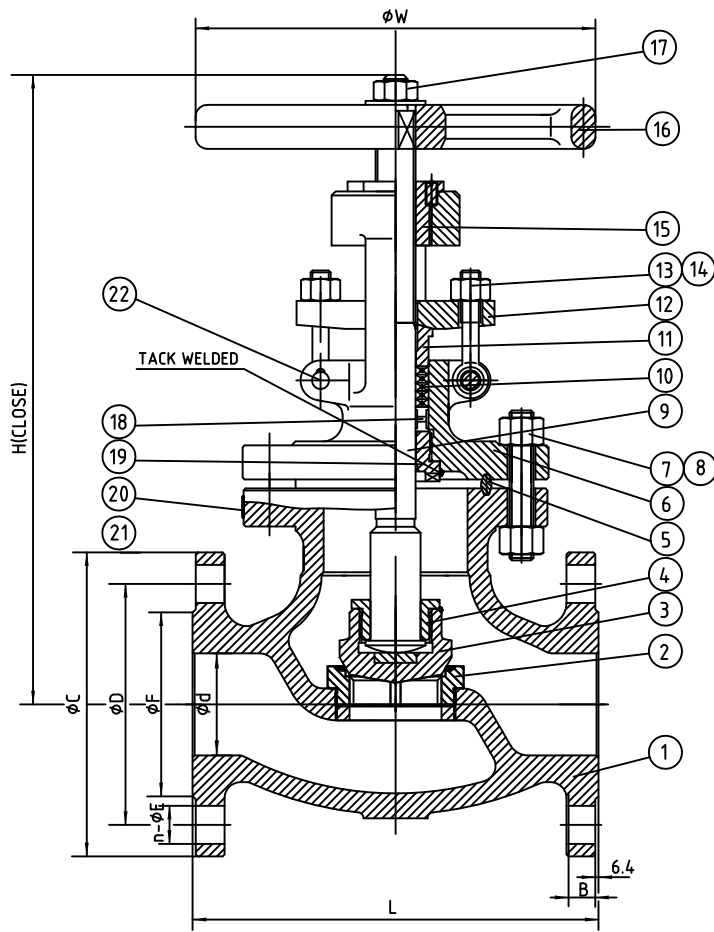
Remark: Larger sizes available upon request.

						MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm	
						BUTTWELD ENDS	ANSI B16.25	SHELL	HYDRO 5598PSI	CLASS: 1500	
						FACE TO FACE	ANSI B16.10	SEAT	AIR 80PSI	DATE: 01/01/12	
						WALL THICKNESS	ANSI B16.34	BACK SEAT	HYDRO 4100PSI	SIZE: 2" - 8"	
										FIG. No.: 1501W-2N	
NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	BS1868, ANSI B16.34	NACE MR 0175	CHK'D & APR'D BY: R.P.	REV: 1	DWG No.: 60SC120135

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TITLE: CAST STEEL SWING CHECK VALVE CLASS 1500 - API TRIM 8 - BUTTWELD

Wm. E. Williams No. 1502F2N Class 1500 RF Globe Valve ASTM A 216 WCB (API Trim 8) NACE



ITEM	NAME	MATERIAL	SPECIFICATION	NOTE
1	BODY	CAST STEEL	ASTM A216-WCB	NACE
2	SEAT	CARBON STEEL	ASTM A105+HF	
3	DISC	CARBON STEEL	ASTM A105+13%Cr	
4	DISC COVER	STAINLESS STEEL	ASTM A276-410	
5	GASKET RING JOINT	STEEL	08F	
6	BONNET	CAST STEEL	ASTM A216-WCB	
7	BONNET BOLT	STEEL	ASTM A193-B7M	
8	BONNET NUT	STEEL	ASTM A194-2HM	
9	STEM	STAINLESS STEEL	ASTM A182-F6a	
10	PACKING RING	INCONEL WIRE WITH GRAPHITE		
11	GLAND	STAINLESS STEEL	ASTM A276-410	
12	GLAND FLANGE	CAST STEEL	ASTM A216-WCB	
13	EYE BOLT	STEEL	ASTM A193-B7M	
14	EYE BOLT NUT	STEEL	ASTM A194-2HM	
15	STEM NUT	NOODULAR CAST IRON	ASTM A439-D-2	
16	HANDWHEEL	NOODULAR CAST IRON		
17	HANDWHEEL NUT	CARBON STEEL	ASTM A29-1035	
18	DISTANCE RING	STAINLESS STEEL	ASTM A276-410	
19	BACKSEAT BUSHING	STAINLESS STEEL	ASTM A276-410	
20	NAMEPLATE	STAINLESS STEEL	304SS	
21	RIVET	STAINLESS STEEL	304SS	
22	PIN	CARBON STEEL	ASTM A29-1035	

SIZE	L	B	C	D	n	E	F	H	W
2"	368	38.5	216	165.1	8	26	92	592	350
3"	470	48	267	203	8	32	127	692	450
4"	546	54	311	241	8	35	157	907	500
6"	705	83	394	317.5	12	38	216	1015	640
8"	832	92	483	394	12	45	270	1655	640

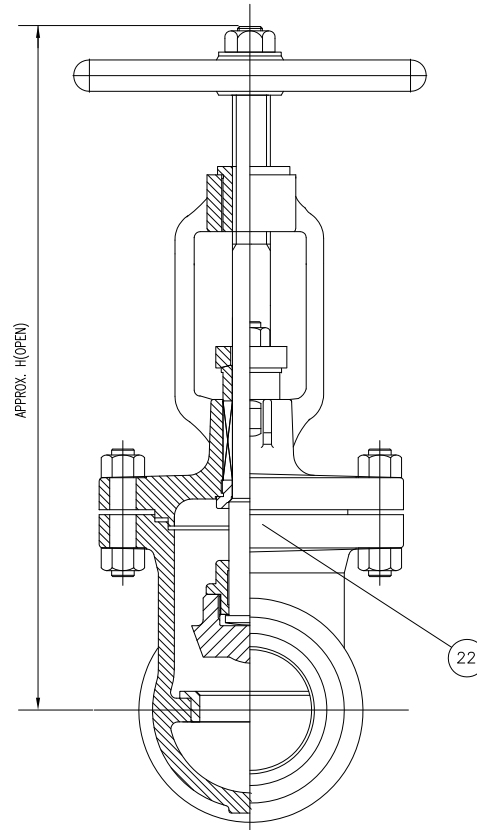
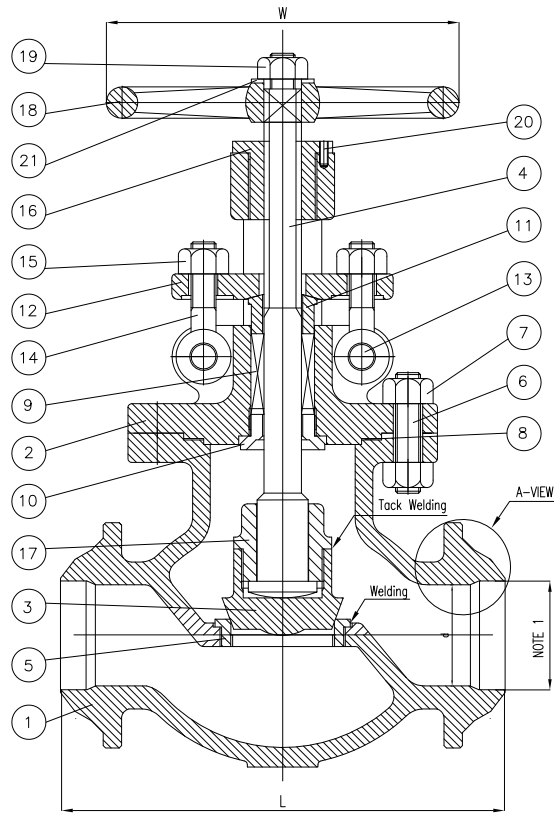
Remark: Larger sizes available upon request

WILLIAM E. WILLIAMS VALVE CORPORATION
 38-52 REVIEW AVENUE LONG ISLAND CITY, NY 11101
 TEL: 718-999-1660 FAX: 718-729-5106
 WWW.WILLIAMSVALVE.COM

TITLE: CAST STEEL GLOBE VALVE CLASS 1500 - API TRIM 8 - B,B R,F OS&Y		MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm
CLASS: 1500	DATE: 01/04/16	SCALE: N.T.S.	FIG. No.: 1502F2N
FACE TO FACE: ANSI B16.10	SEAT: AIR	80PSI	
WALL THICKNESS: BS1873	BACK SEAT: HYDRO	4100PSI	
NO. DATE	DESCRIPTION	PRP'D	REV'D
1/4/16	RELEASED	F.J.	R.P.
DESIGNED	BS1873, ANSI B16.34	NACE MR 0175	CHK'D & APR'D BY: R.P.
			REV: 1
			DWG No.: 60GL120121-28

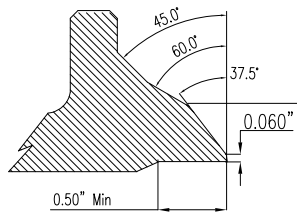
MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598
DIM.OF FLANGE	ANSI B16.5	SHELL HYDRO 5598PSI
FACE TO FACE	ANSI B16.10	SEAT AIR 80PSI
WALL THICKNESS	BS1873	BACK SEAT HYDRO 4100PSI
NO.	DATE	DESCRIPTION

Wm. E. Williams No. 1502W2N Class 1500 BW Globe Valve ASTM A 216 WCB (API Trim 8) NACE



BILL OF MATERIALS			
NO.	PART NAME	MATERIALS	Q'TY
1	BODY	A216Gr WCB	1
2	BONNET	A216Gr WCB	1
3	DISC	A216Gr WCB + 13Cr Faced	1
4	STEM	A479 410	1
5	SEAT RING	A105N + HF	1
6	BONNET BOLT	A193Gr B7M	1SET
7	BONNET NUT	A194Gr 2HM	1SET
8	GASKET	304 + GRAPHITE	1
9	PACKING	GRAPHITE WITH CORROSION INHIBITOR AND DIE FORMED RINGS	1SET
10	BACK SEAT	A479Gr 410	1
11	GLAND RING	A479Gr 410	1
12	GLAND FLANGE	WCB	1
13	HINGE PIN	410	2
14	GLAND BOLT	A193Gr B7M	2
15	GLAND NUT	A194Gr 2HM	2
16	BONNET BUSH	A439Gr D2C	1
17	DISC NUT	A217Gr CA15	1
18	HAND WHEEL	A197	1
19	HANDLE NUT	A194Gr 2HM	1
20	SET SCREW	STEEL	1
21	WASHER	STEEL	1
22	NAME PLATE	STAINLESS STEEL	1

SIZE	d	L	H	W
2.00	2.00	14.50	24.00	14.00
3.00	3.00	18.50	26.00	16.00
4.00	4.00	21.50	28.00	18.00
6.00	6.00	27.75	37.50	24.00
8.00	8.00	32.75	45.00	24.00



A-VIEW

NOTE:
1. SPECIFY PIPE SCHEDULE No. REQUIRED.

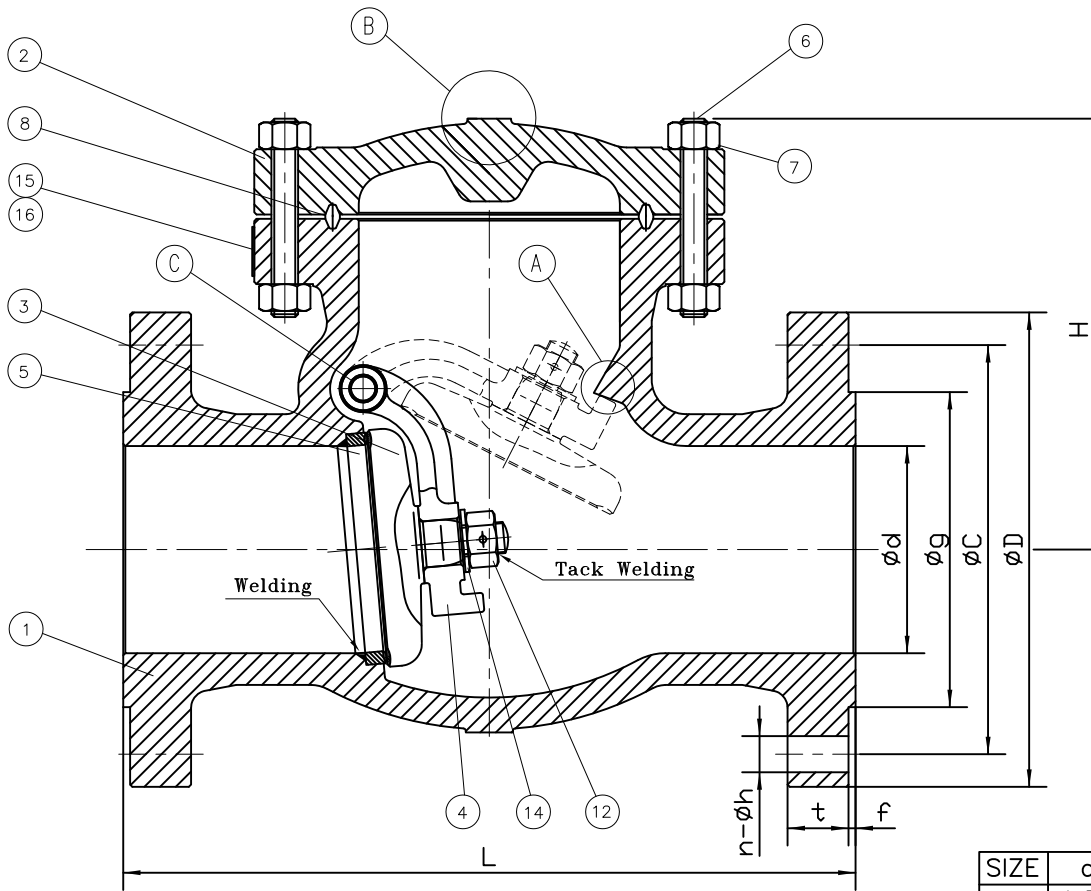
Remark: Larger sizes available upon request.

WILLIAM E. WILLIAMS VALVE CORPORATION
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 TEL: 718-392-1660 FAX: 718-729-5106
 www.williamsvalve.com

TITLE: CAST STEEL GLOBE VALVE
 CLASS 1500 - API TRIM 8 - B,B BUTTWELD END

						MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST:	API 598	MATERIAL:	ASTM A216 GR.WCB	UNITS:	Inch, mm			
						BUTTWELDING END	ANSI B16.25	SHELL	HYDRO	5598PSI	CLASS:	1500	DATE:	01/01/12	SCALE:	N.T.S.
						FACE TO FACE	ANSI B16.10	SEAT	AIR	80PSI	SIZE:	2" - 8"	FIG. No.:			
						WALL THICKNESS	BS1873	BACK SEAT	HYDRO	4100PSI	DRAWN BY:	F.J.				1502W-2N
NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	BS1873, ANSI B16.34	NACE MR	0175	CHK'D & APR'D BY:	R.P.	REV:	1	DWG No.:	60GL120127	

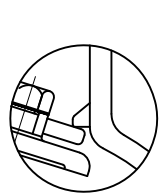
Wm. E. Williams No. 2501F2N Class 2500 RF Swing Check Valve ASTM A216 WCB (API Trim 8) NACE



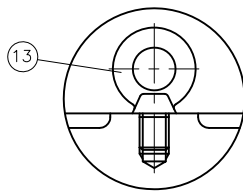
BILL OF MATERIALS			
NO.	PART NAME	MATERIAL	Q'TY
1	BODY	A216Gr WCB	1
2	COVER	A216Gr WCB	1
3	DISC	A216 GR WCB + 13Cr Faced	1
4	ARM	A216Gr WCB	1
5	SEAT RING	A105N + HF	1
6	COVER BOLT	A193Gr B7M	1SET
7	COVER NUT	A194Gr 2HM	1SET
8	GASKET, RING JOINT	304+GRAPHITE	1
9	PIN GASKET	410	1
10	HINGE PIN	A479Gr 410	1
11	HINGE BOLT	A193Gr B7M	1
12	DISC NUT	A194Gr 2HM	1
13	EYE BOLT	A193Gr B7M	1
14	WASHER	STEEL	1
15	NAME PLATE	STAINLESS STEEL	1
16	RIVET	STAINLESS STEEL	2

SIZE	d	L	D	C	g	t	f	n-phi-h	H
2.00	1.50	17.75	9.25	6.75	3.620	2.00	0.250	8-1.14	13.00
3.00	2.25	22.75	12.00	9.00	5.000	2.62	0.250	8-1.37	16.00
4.00	2.87	26.50	14.00	10.75	6.180	3.62	0.250	8-1.62	16.00
6.00	4.37	36.00	19.00	14.50	8.500	4.25	0.250	8-2.12	23.00
8.00	5.75	40.25	21.75	17.25	10.62	5.00	0.250	12-2.12	28.50

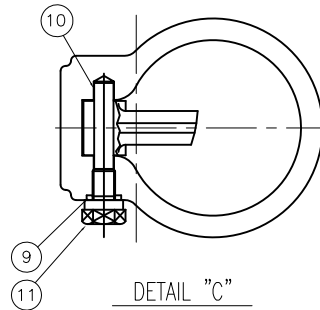
Remark: Larger sizes available upon request.



DETAIL "A"
(6" OVER)



DETAIL "B"
(6" OVER)



DETAIL "C"

WILLIAM E. VALVE CORPORATION
 38-52 REVIEW AVENUE LONG ISLAND CITY, NY 11101
 TEL: 718-392-1660 FAX: 718-729-5106

TITLE: CAST STEEL SWING CHECK VALVE
 CLASS 2500 - API TRIM 8 - BC. RF

					MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm		
					DIM.OF FLANGE	ANSI B16.5	SHELL HYDRO 9275PSI	CLASS: 2500	DATE: 06/26/13	SCALE: N.T.S.	
					FACE TO FACE	ANSI B16.10	SEAT AIR 80PSI	SIZE: 2" - 8"		FIG. No.: 2501F-2N	
					WALL THICKNESS	ANSI B16.34	BACK SEAT HYDRO 6800PSI	DRAWN BY: F.J.			
NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	BS1868, ANSI B16.34	NACE MR0175	CHK'D & APR'D BY: R.P.	REV: 1	DWG No.: 60SC120214



6/26/13

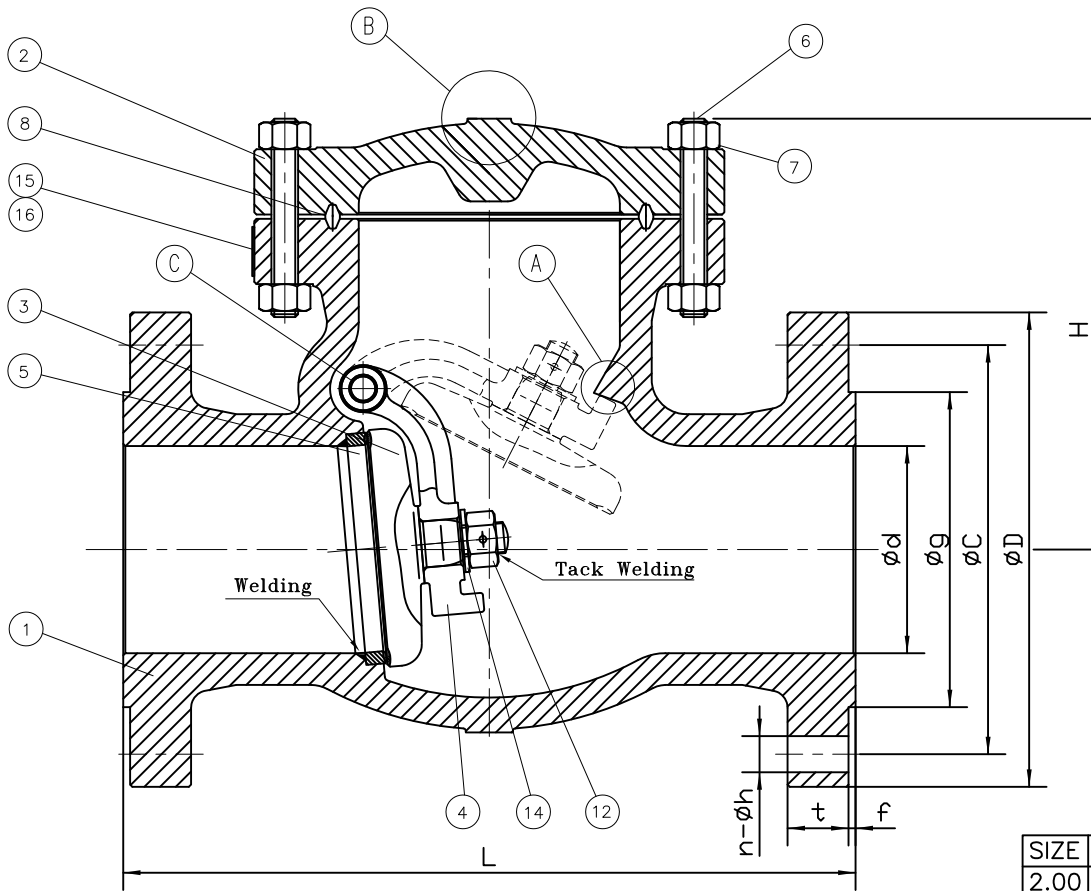
RELEASED

F.J.

R.P.

R.P.

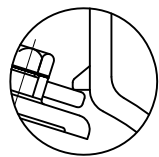
Wm. E. Williams No. 2501F62N Class 2500 RF Swing Check Valve ASTM A216 WCB (API Trim 12) NACE



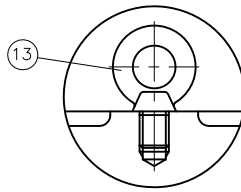
BILL OF MATERIALS			
NO.	PART NAME	MATERIAL	Q'TY
1	BODY	A216Gr WCB	1
2	COVER	A216Gr WCB	1
3	DISC	A216 GR WCB 316 FACED	1
4	ARM	A216Gr WCB	1
5	SEAT RING	A105N + HF	1
6	COVER BOLT	A193Gr B7M	1SET
7	COVER NUT	A194Gr 2HM	1SET
8	GASKET, RING JOINT	OCTAGONAL 316 SST	1
9	PIN GASKET	410	1
10	HINGE PIN	A479Gr 410	1
11	HINGE BOLT	A193Gr B7M	1
12	DISC NUT	A194Gr 2HM	1
13	EYE BOLT	A193Gr B7M	1
14	WASHER	STEEL	1
15	NAME PLATE	STAINLESS STEEL	1
16	RIVET	STAINLESS STEEL	2

SIZE	d	L	D	C	g	t	f	n-φ	H
2.00	1.50	17.75	9.25	6.75	3.620	2.00	0.250	8-1.14	13.00
3.00	2.25	22.75	12.00	9.00	5.000	2.62	0.250	8-1.37	16.00
4.00	2.87	26.50	14.00	10.75	6.180	3.62	0.250	8-1.62	16.00
6.00	4.37	36.00	19.00	14.50	8.500	4.25	0.250	8-2.12	23.00
8.00	5.75	40.25	21.75	17.25	10.62	5.00	0.250	12-2.12	28.50

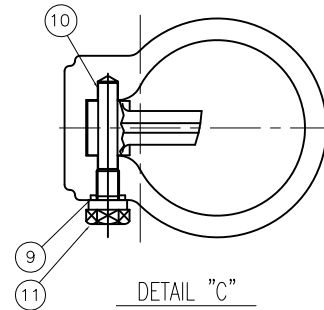
Remark: Larger sizes available upon request.



DETAIL "A"
(6" OVER)



DETAIL "B"
(6" OVER)



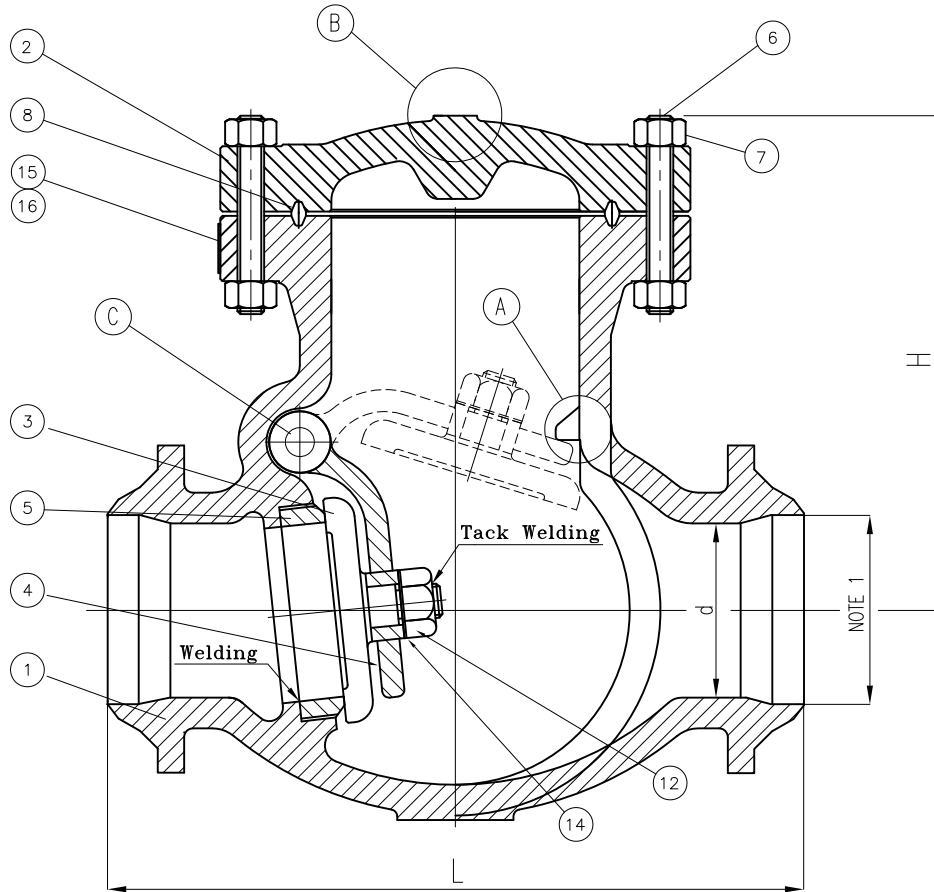
DETAIL "C"

						MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm	
						DIM.OF FLANGE	ANSI B16.5	SHELL HYDRO 9275PSI	CLASS: 2500	DATE: 06/27/13	SCALE: N.T.S.
						FACE TO FACE	ANSI B16.10	SEAT AIR 80PSI	SIZE: 2" - 8"		FIG. No.: 2501F-62N
						WALL THICKNESS	ANSI B16.34	BACK SEAT HYDRO 6800PSI	DRAWN BY: F.J.		
Δ	6/27/13	RELEASED	F.J.	R.P.	R.P.	DESIGNED	BS1868, ANSI B16.34	NACE MR0175	CHK'D & APR'D BY: R.P.	REV: 1	DWG No.: 60SC120217

WILLIAM E. VALVE CORPORATION
 38-52 REVIEW AVENUE LONG ISLAND CITY, NY 11101
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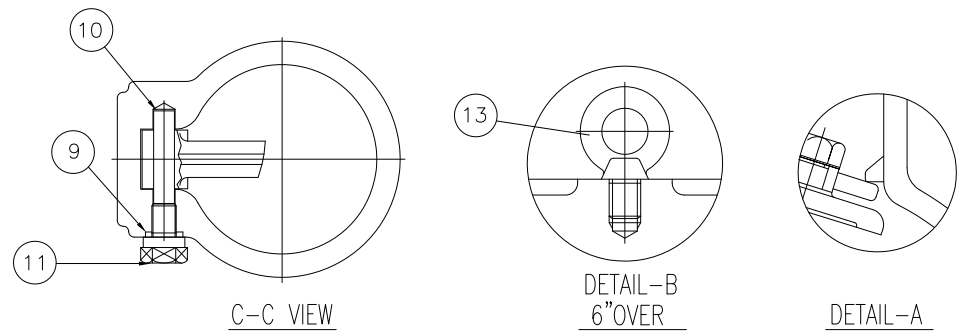
TITLE: CAST STEEL SWING CHECK VALVE CLASS 2500 - API TRIM 12 - BC. RF

Wm. E. Williams No. 2501W2N Class 2500 BW Swing Check Valve ASTM A216 WCB (API Trim 8) NACE



BILL OF MATERIALS			
NO.	PART NAME	MATERIAL	Q'TY
1	BODY	A216Gr WCB	1
2	COVER	A216Gr WCB	1
3	DISC	A216 GR WCB + 13Cr Faced	1
4	ARM	A216Gr WCB	1
5	SEAT RING	A105N + HF	1
6	COVER BOLT	A193Gr B7M	1SET
7	COVER NUT	A194Gr 2HM	1SET
8	GASKET, RING JOINT	304 + GRAPHITE	1
9	PIN GASKET	410	1
10	HINGE PIN	A479Gr 410	1
11	HINGE BOLT	A193Gr B7M	1
12	DISC NUT	A194Gr 2HM	1
13	EYE BOLT	A193Gr B7M	1
14	WASHER	STEEL	1
15	NAME PLATE	STAINLESS STEEL	1
16	RIVET	STAINLESS STEEL	2

NOTE:
1. SPECIFY PIPE SCHEDULE No. REQUIRED.



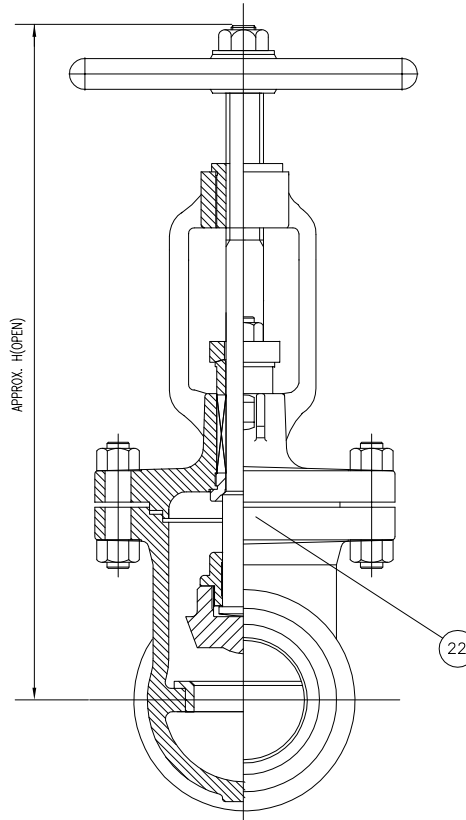
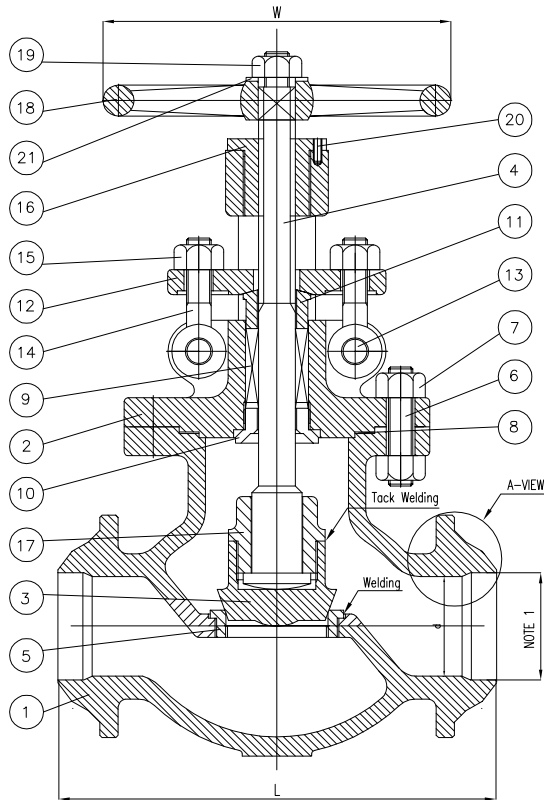
SIZE	d	L	H
2.00	1.50	17.75	13.00
3.00	2.25	22.75	16.00
4.00	2.87	26.50	16.00
6.00	4.37	36.00	23.00
8.00	5.75	40.25	28.50

Remark: Larger sizes available upon request.

						MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm	
						DIM.OF FLANGE	ANSI B16.5	SHELL HYDRO 9275PSI	CLASS: 2500	DATE: 07/02/13	SCALE: N.T.S.
						FACE TO FACE	ANSI B16.10	SEAT AIR 80PSI	SIZE: 2" - 8"		FIG. No.: 2501W-2N
						WALL THICKNESS	ANSI B16.34	BACK SEAT HYDRO 6800PSI	DRAWN BY: F.J.		
NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	BS1868, ANSI B16.34	NACE MR0175	CHK'D & APR'D BY: R.P.	REV: 1	DWG No.: 60SC120220

WILLIAM E. WILLIAMS VALVE CORPORATION
 38-52 REVIEW AVENUE LONG ISLAND CITY, NY 11101
 TEL: 718-392-1660 FAX: 718-729-5106
 TITLE: CAST STEEL SWING CHECK VALVE CLASS 2500 - API TRIM 8 - BUTTWELD

Wm. E. Williams No. 2502W2N Class 2500 BW Globe Valve ASTM A 216 WCB (API Trim 8) NACE

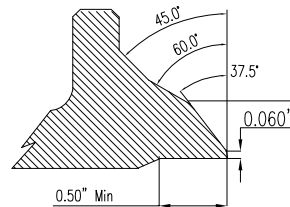


BILL OF MATERIALS			
NO.	PART NAME	MATERIALS	Q'TY
1	BODY	A216Gr WCB	1
2	BONNET	A216Gr WCB	1
3	DISC	A216Gr WCB + 13Cr Faced	1
4	STEM	A479 410	1
5	SEAT RING	A105N + HF	1
6	BONNET BOLT	A193Gr B7M	1SET
7	BONNET NUT	A194Gr 2HM	1SET
8	GASKET	304 + GRAPHITE	1
9	PACKING	GRAPHITE WITH CORROSION INHIBITOR AND DIE FORMED RINGS	1SET
10	BACK SEAT	A479Gr 410	1
11	GLAND RING	A479Gr 410	1
12	GLAND FLANGE	WCB	1
13	HINGE PIN	410	2
14	GLAND BOLT	A193Gr B7M	2
15	GLAND NUT	A194Gr 2HM	2
16	BONNET BUSH	A439Gr D2C	1
17	DISC NUT	A217Gr CA15	1
18	HAND WHEEL	A197	1
19	HANDLE NUT	A194Gr 2HM	1
20	SET SCREW	STEEL	1
21	WASHER	STEEL	1
22	NAME PLATE	STAINLESS STEEL	1

NOTE:
1. SPECIFY PIPE SCHEDULE No. REQUIRED.

SIZE	d	L	H	W
2.00	1.50	17.75	25.50	16.00
3.00	2.25	22.75	32.50	20.00
4.00	2.87	26.50	47.00	24.00
6.00	4.37	36.00	70.50	28.00
8.00	5.75	40.25	-	-

Remark: Larger sizes available upon request.



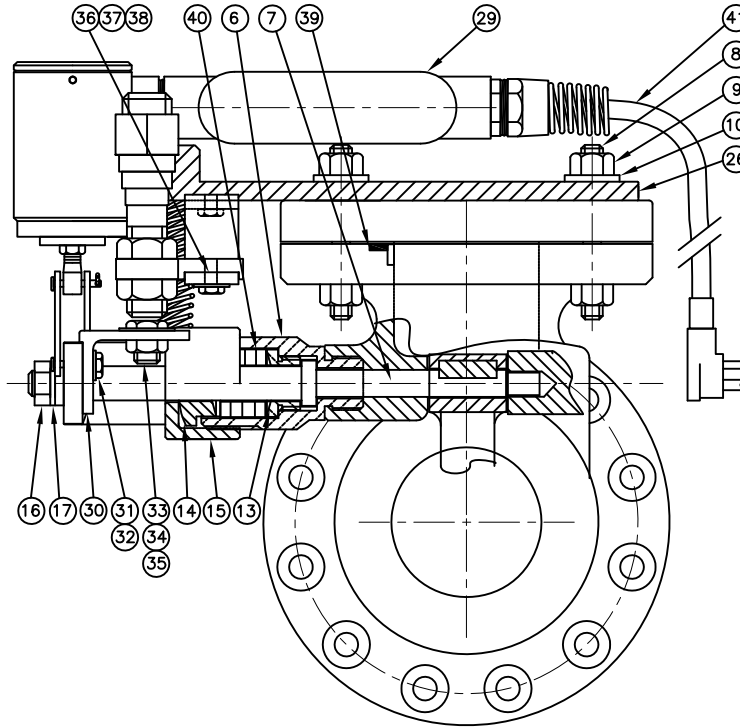
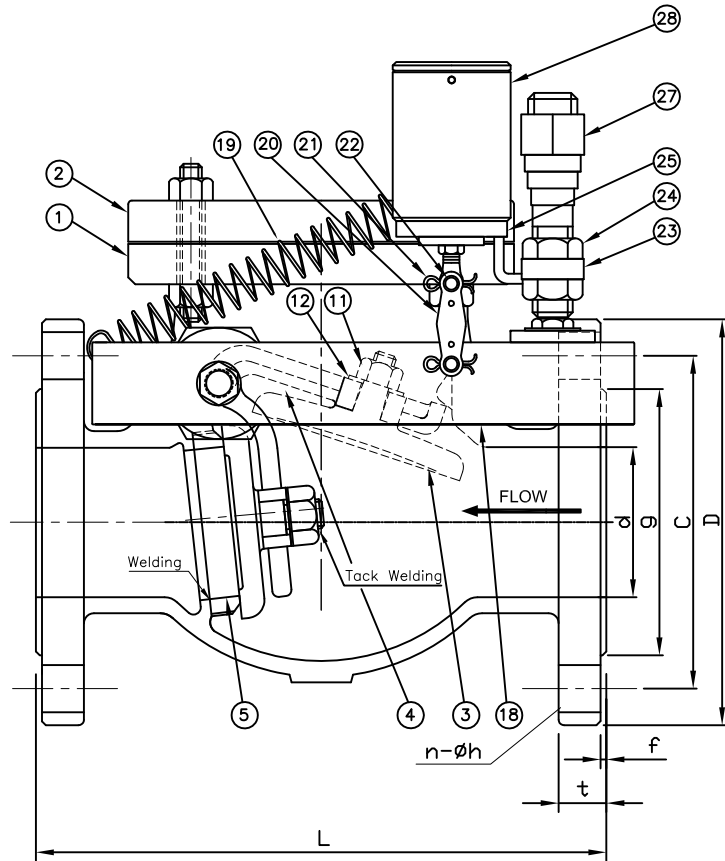
A-VIEW

WILLIAM E. WILLIAMS VALVE CORPORATION
 38-52 REVIEW AVENUE LONG ISLAND CITY, NY 11101
 TEL: 718-392-1660 FAX: 718-929-5106

TITLE: CAST STEEL GLOBE VALVE
 CLASS 2500 - API TRIM 8 - BUTTWELD - B,B OS&Y

					MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 GR.WCB	UNITS: Inch, mm		
					DIM.OF FLANGE	ANSI B16.5	SHELL HYDRO 9275PSI	CLASS: 2500	DATE: 07/01/13	SCALE: N.T.S.	
					FACE TO FACE	ANSI B16.10	SEAT AIR 80PSI	SIZE: 2" - 8"		FIG.No.: 2502W-2N	
					WALL THICKNESS	BS1873	BACK SEAT HYDRO 6800PSI	DRAWN BY: F.J.			
NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	BS1873, ANSI B16.34	NACE MR 0175	CHKD & APR'D BY: R.P.	REV: 1	DWG No.: 60GL120219

Wm. E. Williams No. MPSL-2 Class 150 Emergency Shut-Off Valve ASTM A216 Gr WCB (API Trim 8)



BILL OF MATERIAL			
NO.	PART NAME	MATERIAL	Q'TY
1	BODY	ASTM A216 Gr WCB	1
2	COVER	ASTM A216 Gr WCB	1
3	DISC	ASTM A216 Gr WCB With 13Cr Overlay	1
4	ARM	ASTM A216-WCB	1
5	SEAT RING	A105N + HF	1
6	STUFFING HOUSE	A276-316	1
7	SHAFT	A276-316	1
8	COVER BOLT	ASTM A193 Gr B7	1SET
9	COVER NUT	ASTM A194 Gr 2H	1SET
10	WASHER	A240-316	2
11	DISC NUT	ASTM A194 Gr 2H	1
12	WASHER	A240-316	1
13	RETAINER	A276-316	1
14	GLAND	CARBON STEEL	1
15	PACKING NUT	CARBON STEEL	1
16	LEVER NUT	ASTM A194 Gr 2H	1
17	WASHER	A240-316	1
18	LEVER	Cold Rolled Steel	1
19	SPRING	Steel	1
20	FUSIBLE LINK	165°F	2
21	PIN	S.S 18-8	2
22	LOCK PIN	S.S 316	2
23	LIMIT SWITCH BRACKET	S.S 316	1
24	LOCK NUT	S.S 316	2
25	MAGNETIC DISC	CARBON STEEL	1
26	MOUNTING BRACKET	CARBON STEEL	1
27	LIMIT SWITCH (SEE NOTE)	S.S 316	1Set
28	ELECTRO MAGNET		1
29	CONDUIT BODY	ALUMINUM	1
30	LEVER/MAGNETIC BOLT BRACKET	CARBON STEEL	1
31	BOLT	A193-B7	1
32	WASHER	A240-316	1
33	MAGNETIC TRIGGER BOLT	S.S 316	1
34	WASHER	A240-316	1
35	NUT	A194-2H	1
36	LIMIT SWITCH BRACKET	CARBON STEEL	1
37	BOLT	A193-B7	2
38	WASHER	A240-316	2
39	GASKET	GRAPHITE	1
40	PACKING	GRAPHITE WITH CORROSION INHIBITOR AND DIE FORMED RINGS	1
41	PLUG		1

SIZE	d	L	D	C	g	t	f	n-h
2.00	2.00	8.00	6.00	4.75	3.625	0.63	0.060	4-0.75
2.50	2.50	8.50	7.00	5.50	4.125	0.69	0.060	4-0.75
3.00	3.00	9.50	7.50	6.00	5.000	0.75	0.060	4-0.75
4.00	4.00	11.50	9.00	7.50	6.187	0.94	0.060	8-0.75
5.00	5.00	13.00	10.00	8.50	7.320	0.94	0.060	8-0.87
6.00	6.00	14.00	11.00	9.50	8.500	1.00	0.060	8-0.87
8.00	8.00	19.50	13.50	11.75	10.62	1.13	0.060	8-0.87
10.00	10.00	24.50	16.00	14.25	12.75	1.19	0.060	12-1.00
12.00	12.00	27.50	19.00	17.00	15.00	1.25	0.060	12-1.00
14.00	13.25	31.00	21.00	18.75	16.25	1.38	0.060	12-1.12
16.00	15.25	34.00	23.50	21.25	18.50	1.44	0.060	16-1.12
18.00	17.25	38.50	25.00	22.75	21.00	1.57	0.060	16-1.25
20.00	19.25	38.50	27.50	25.00	23.00	1.69	0.060	20-1.12
24.00	23.25	51.00	32.00	29.50	27.25	1.88	0.060	20-1.37

NOTE: LIMIT SWITCH (ITEM 27) AND HARDWARE (ITEMS 30 - 38) ARE OPTIONAL.

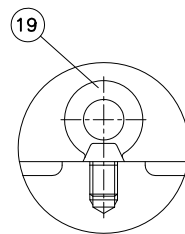
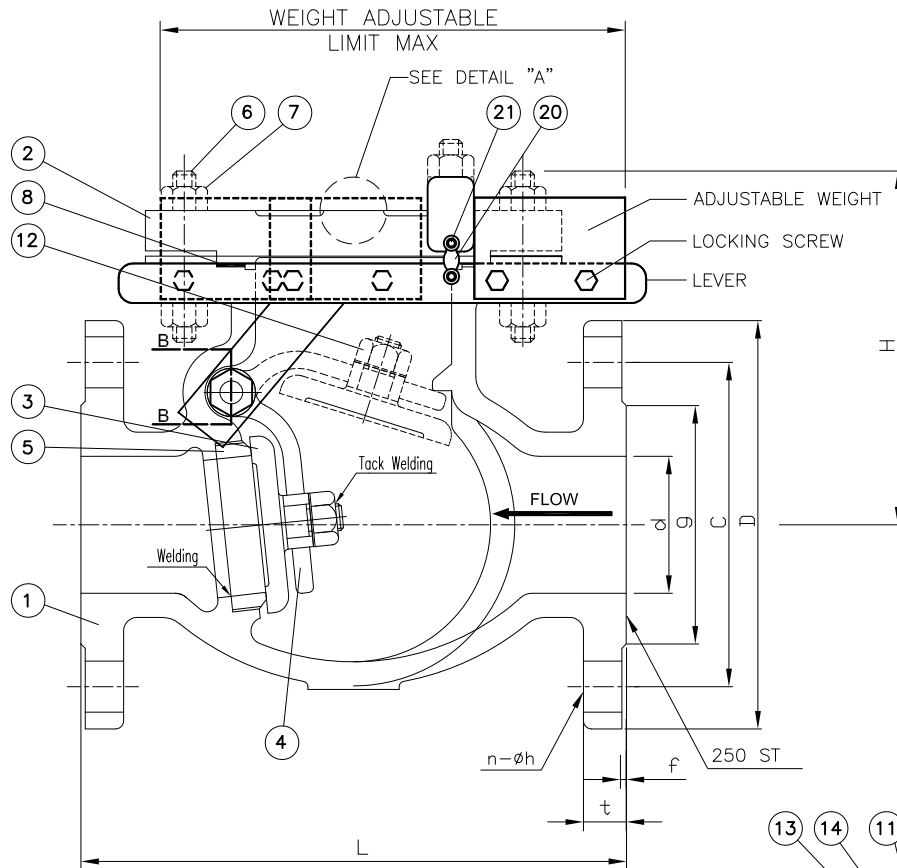
WILLIAM E. WILLIAMS VALVE CORPORATION
 38-52 REVIEW AVENUE LONG ISLAND CITY, NY 11101
 TEL: 718-392-1650 FAX: 718-729-5106

TITLE: CAST STEEL EMERGENCY SHUT OFF VALVE CLASS 150 - API TRIM 8 - WCB			
MATERIAL: ASTM A216 Gr. WCB	UNITS: Inch, mm	CLASS: 150	DATE: 01/01/12
FACE TO FACE: ANSI B16.10	SEAT: AIR	HYDRO: 425PSI	SCALE: N.T.S.
WALL THICKNESS: ANSI B16.34	BACK SEAT: HYDRO	HYDRO: 80PSI	FIG. No.: MPSL-2
DESIGNED: ANSI B16.34	CHK'D & APR'D BY: R.P.	REV: 1	DWG No.: 60ESOV120001

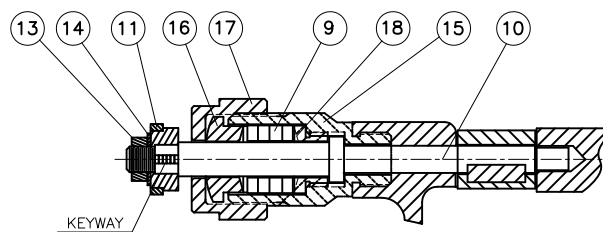
NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D
Δ	1/1/12	RELEASED	F.J.	R.P.	R.P.

MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598
DIM.OF FLANGE	ANSI B16.5	SHELL HYDRO 425PSI
FACE TO FACE	ANSI B16.10	SEAT AIR 80PSI
WALL THICKNESS	ANSI B16.34	BACK SEAT HYDRO 325PSI
DESIGNED	ANSI B16.34	

Wm. E. Williams No. PL-2 Class 150 Emergency Shut-Off Valve ASTM A216 Gr WCB (API Trim 8)



DETAIL "A" (8" OVER)



DETAIL B-B

BILL OF MATERIALS			
NO.	PART NAME	MATERIAL	Q'TY
1	BODY	A216Gr WCB	1
2	COVER	A216Gr WCB	1
3	DISC	A216Gr WCB W/Cr13 Face	1
4	ARM	A216Gr WCB	1
5	SEAT RING	A105 With Cr13 Face	1
6	COVER BOLT	A193Gr B7	1SET
7	COVER NUT	A194Gr 2H	1SET
8	GASKET	GRAPHITE	1
9	PACKING	GRAPHITE	1
10	HINGE PIN	A479Gr 410	1
11	LEVER	Cold Rolled Steel	1
12	DISC NUT	A194Gr 2H	1
13	LEVER NUT	A194Gr 2H	1
14	WASHER	STEEL	1
15	PACKER BOX	Carbon Steel	1
16	PACKING GLAND	410	1
17	PACKING NUT	Carbon Steel	1
18	RETAINER	Steel	1
19	EYE BOLT	A193Gr B7	1
20	FUSIBLE LINK (165°)		2
21	PIN	SS 18-8	2

SIZE	d	L	D	C	g	t	f	n-h	H
2.00	2.00	8.00	6.00	4.75	3.625	0.63	0.060	4-0.75	6.00
2.50	2.50	8.50	7.00	5.50	4.125	0.69	0.060	4-0.75	6.00
3.00	3.00	9.50	7.50	6.00	5.000	0.75	0.060	4-0.75	6.25
4.00	4.00	11.50	9.00	7.50	6.187	0.94	0.060	8-0.75	7.62
5.00	5.00	13.00	10.00	8.50	7.320	0.94	0.060	8-0.87	7.62
6.00	6.00	14.00	11.00	9.50	8.500	1.00	0.060	8-0.87	9.50
8.00	8.00	19.50	13.50	11.75	10.62	1.13	0.060	8-0.87	11.50
10.00	10.00	24.50	16.00	14.25	12.75	1.19	0.060	12-1.00	13.50
12.00	12.00	27.50	19.00	17.00	15.00	1.25	0.060	12-1.00	15.00
14.00	13.25	31.00	21.00	18.75	16.25	1.38	0.060	12-1.12	15.75
16.00	15.25	34.00	23.50	21.25	18.50	1.44	0.060	16-1.12	17.25

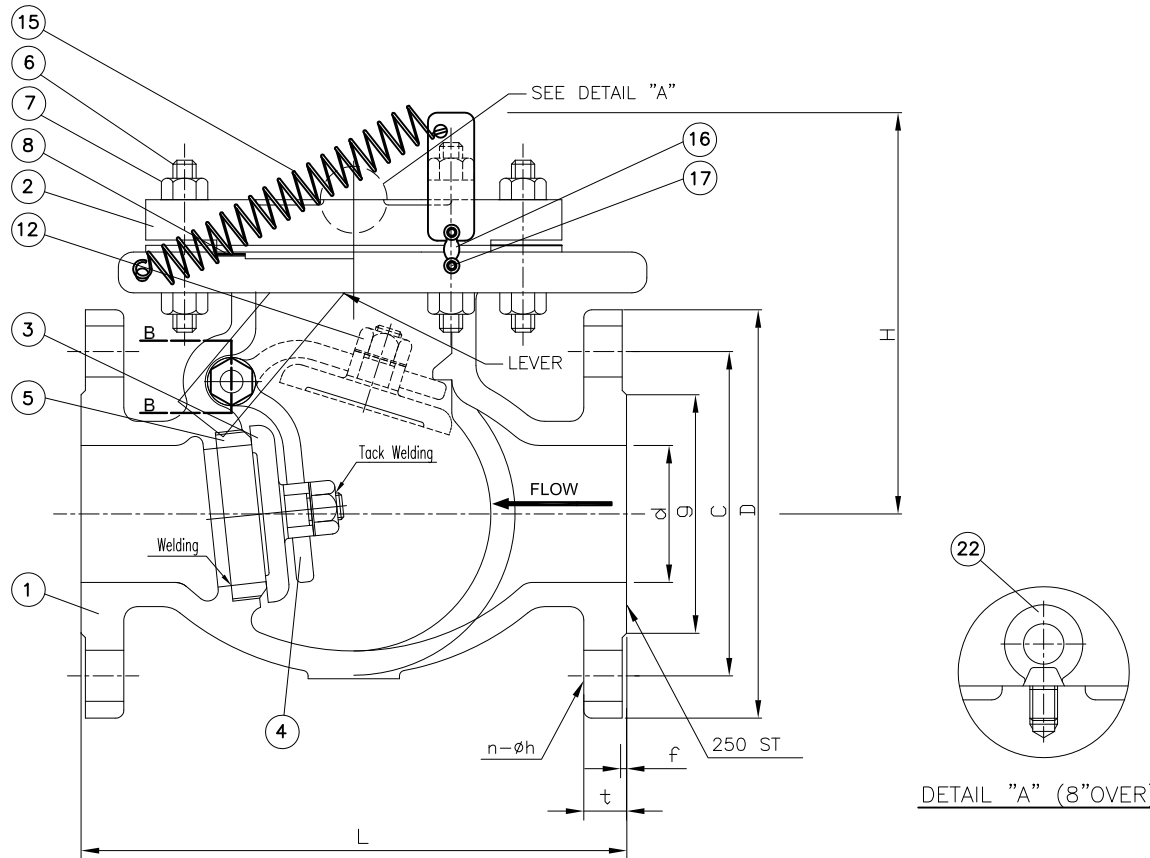
Remark: Larger sizes available upon request.

					MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST	API 598	MATERIAL	ASTM A216 Gr. WCB	UNITS:	Inch, mm
Δ	8/27/13	RE-RELEASED	F.J.	R.P.	R.P.	DIM.OF FLANGE	ANSI B16.5	SHELL	HYDRO	450PSI	CLASS:	150
						FACE TO FACE	ANSI B16.10	SEAT	AIR	80PSI	DATE:	01/01/12
Δ	1/1/12	RELEASED	F.J.	R.P.	R.P.	WALL THICKNESS	ANSI B16.34	BACK SEAT	HYDRO	315PSI	SIZE:	2" - 16"
						DESIGNED	BS1868, ANSI B16.34				DRAWN BY:	F.J.
											FIG. No.:	PL-2
											CHK'D & APR'D BY:	R.P.
											REV:	2
											DWG No.:	60ESOV120004

WILLIAM E. WILLIAMS VALVE CORPORATION
 38-52 REVIEW AVENUE LONG ISLAND CITY, NY 11101
 TEL: 718-392-1660 FAX: 718-729-5106

TITLE: CAST STEEL EMERGENCY SHUT-OFF VALVE WITH ADJUSTABLE WEIGHT - CLASS 150 - API TRIM 8 - WCB

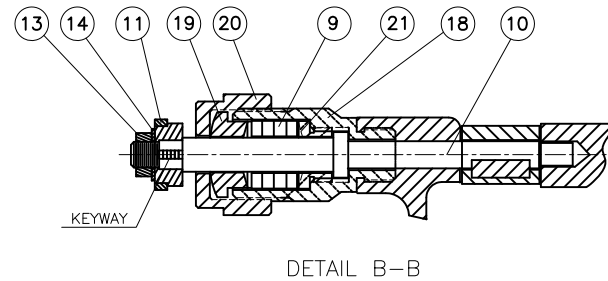
Wm. E. Williams No. PSL-2 Class 150 Emergency Shut-Off Valve ASTM A216 Gr WCB (API Trim 8)



BILL OF MATERIALS			
NO.	PART NAME	MATERIAL	Q'TY
1	BODY	A216Gr WCB	1
2	COVER	A216Gr WCB	1
3	DISC	A216Gr WCB W/Cr13 Face	1
4	ARM	A216Gr WCB	1
5	SEAT RING	A105 With Cr13 Face	1
6	COVER BOLT	A193Gr B7	1SET
7	COVER NUT	A194Gr 2H	1SET
8	GASKET	GRAPHITE	1
9	PACKING	GRAPHITE	1
10	HINGE PIN	A479Gr 410	1
11	LEVER	Cold Rolled Steel	1
12	DISC NUT	A194Gr 2H	1
13	LEVER NUT	A194Gr 2H	1
14	WASHER	STEEL	1
15	SPRING	MUSIC WIRE	1
16	FUSIBLE LINK (165°)		2
17	PIN	SS 18-8	2
18	PACKER BOX	Carbon Steel	1
19	PACKING GLAND	410	1
20	PACKING NUT	Carbon Steel	1
21	RETAINER	Steel	1
22	EYE BOLT	A193Gr B7	1

SIZE	d	L	D	C	g	t	f	n-h	H
2.00	2.00	8.00	6.00	4.75	3.625	0.63	0.060	4-0.75	6.00
2.50	2.50	8.50	7.00	5.50	4.125	0.69	0.060	4-0.75	6.00
3.00	3.00	9.50	7.50	6.00	5.000	0.75	0.060	4-0.75	6.25
4.00	4.00	11.50	9.00	7.50	6.187	0.94	0.060	8-0.75	7.62
5.00	5.00	13.00	10.00	8.50	7.320	0.94	0.060	8-0.87	7.62
6.00	6.00	14.00	11.00	9.50	8.500	1.00	0.060	8-0.87	9.50
8.00	8.00	19.50	13.50	11.75	10.62	1.13	0.060	8-0.87	11.50
10.00	10.00	24.50	16.00	14.25	12.75	1.19	0.060	12-1.00	13.50
12.00	12.00	27.50	19.00	17.00	15.00	1.25	0.060	12-1.00	15.00
14.00	13.25	31.00	21.00	18.75	16.25	1.38	0.060	12-1.12	15.75
16.00	15.25	34.00	23.50	21.25	18.50	1.44	0.060	16-1.12	17.25
18.00	17.25	38.50	25.00	22.75	21.00	1.57	0.060	16-1.25	19.80
20.00	19.25	38.50	27.50	25.00	23.00	1.69	0.060	20-1.25	21.30
24.00	23.25	51.00	32.00	29.50	27.25	1.88	0.060	20-1.37	26.58

Remark: Larger sizes available upon request.



NO.	DATE	DESCRIPTION	PRP'D	REV'D	APP'D	DESIGNED	MARKING SYSTEM	MSS-SP-25	INSPECTION & TEST: API 598	MATERIAL: ASTM A216 Gr. WCB	UNITS: Inch, mm
Δ	12/3/12	RE-RELEASED	F.J.	R.P.	R.P.		DIM.OF FLANGE	ANSI B16.5	SHELL	HYDRO	450PSI
							FACE TO FACE	ANSI B16.10	SEAT	AIR	80PSI
Δ	1/1/12	RELEASED	F.J.	R.P.	R.P.		WALL THICKNESS	ANSI B16.34	BACK SEAT	HYDRO	315PSI
											SCALE: N.T.S.
											FIG.No.: PSL-2
											DWG No.: 60ESOV120005

WILLIAM E. WILLIAMS VALVE CORPORATION
 38-52 REVIEW AVENUE LONG ISLAND CITY, NY 11101
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 WWW.WILLIAMSVALVE.COM

TITLE: CAST STEEL EMERGENCY SHUT-OFF VALVE WITH SPRING CLASS 150 - API TRIM 8 - WCB

CLASS: 150	DATE: 01/01/12
SIZE: 2" - 24"	FIG.No.: PSL-2
DRAWN BY: F.J.	CHK'D & APR'D BY: R.P.
REV: 2	