

MATERIALS TO NACE MR0175 LATEST EDITION (WETTED PARTS).
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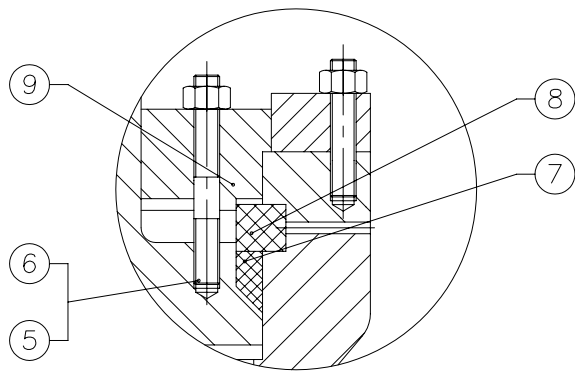
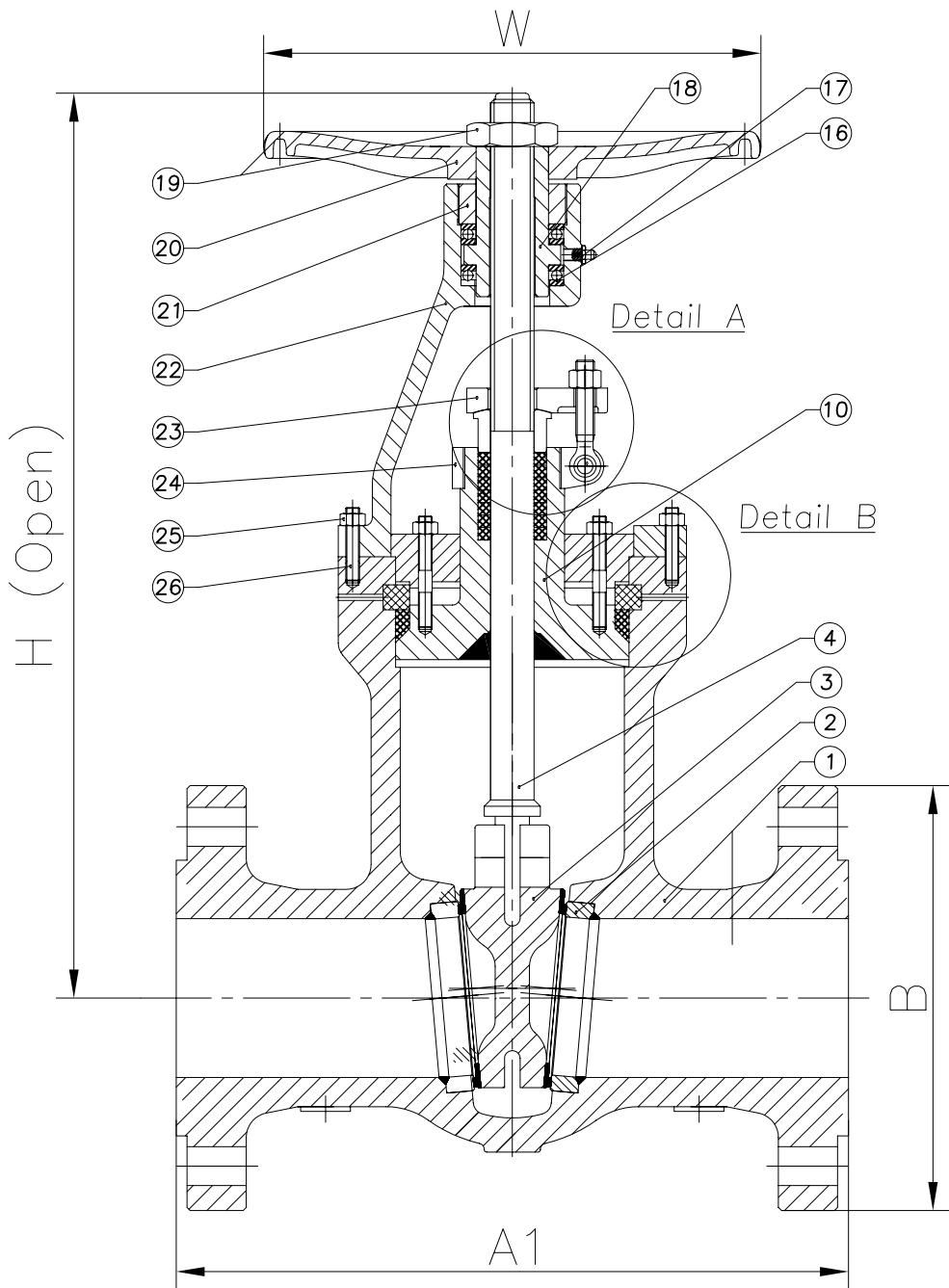
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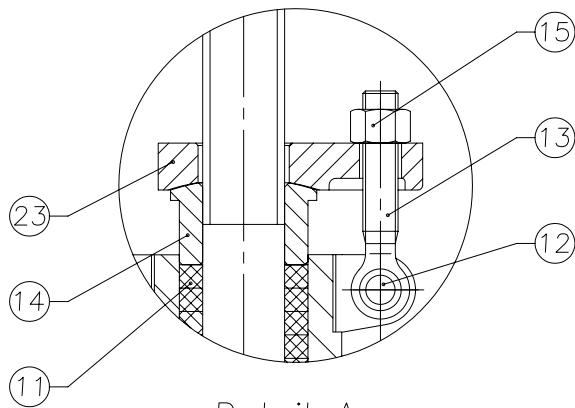
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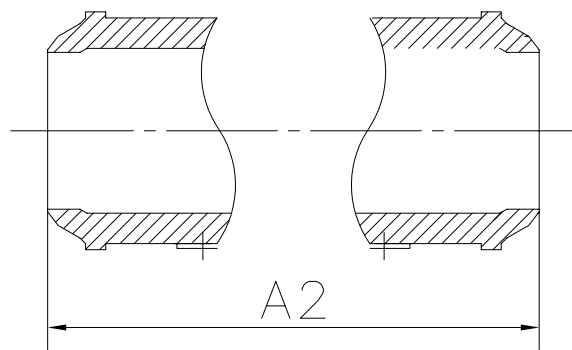
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Detail B



Detail A



Butt-Weld Ends

ENGINEERING DATA

DESIGN CODE	API 600/ANSI B16.34	TEST PRESSURES		
FACE TO FACE DIMENSIONS	ASME B16.10	BODY	153.15	Barg
ENDS FLANGES DIMENSIONS	ASME B16.5	SEAT	112.31	Barg
TESTING CODE	API 598	BACKSEAT	112.31	Barg
		AIR - SEAT	6.0	Barg

REV	DATE	DESCRIPTION	BY	CHK	APP	SCALE:
						DRAWN DM DATE
						CHECKED SMN DATE
						APPROVED AW DATE

BILL OF MATERIALS

NO.	Designation	QTY.	Material	Notes
26	Yoke Pan Bolt Nuts		ASTM A194 2HM	
25	Yoke Pan Bolts		ASTM A193 B7M	
24	Support	1	ASTM A216 WCB	
23	Gland Flange	1	ASTM A216 WCB	
22	Yoke	1	ASTM A216 WCB	
21	Retaining Nut	1	Carbon Steel	
20	Handwheel	1	Ductile Iron	
19	H.W.Lock Nut	1	Carbon Steel	
18	Stem Nut	1	AL-Bronze	
17	Lubricating Cup	1	Copper	
16	Axletree	2	Assembly	
15	Gland Nut	2	ASTM A194 2HM	
14	Gland	1	ASTM A182 F6	
13	Gland Eye Bolt	2	ASTM A193 B7M	
12	Pin	2	Carbon Steel	
11	Packing	7	Flexible Graphite	
10	Bonnet	1	ASTM A216 WCB	
9	Bonnet Flange	1	ASTM A216 WCB	
8	Gasket	1	304+Graphite	
7	Packing	1	Flexible Graphite	
6	Bonnet Nut		ASTM A194 2HM	
5	Bonnet Bolt		ASTM A193 B7M	
4	Stem	1	ASTM A182 F6	
3	Wedge	1	ASTM A216 WCB+STL	
2	Seat	2	ASTM A182 F6+STL	
1	Body	1	ASTM A216 WCB	

Size	A1	A2	H (Open)
2	292	178	559
2½	330	216	610
3	356	254	610
4	432	305	711
6	559	457	889
8	660	584	1168
10	787	711	1295
12	818	813	1473
14	889	889	1626
16	991	991	1854

DRAWING TITLE:
API CAST STEEL CLASS 600
PRESSURE-SEAL BONNET, RF, GATE VALVES
CLIENT:
VENDOR PO REF:
EVC REF:



CAD. No.	DRAWING NUMBER:	120035	REV
AREA No. 1	FACILITY	TYPE	SEQ. No.
SHT. No.			

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MATERIALS TO NACE MR0175 LATEST EDITION (WETTED PARTS).

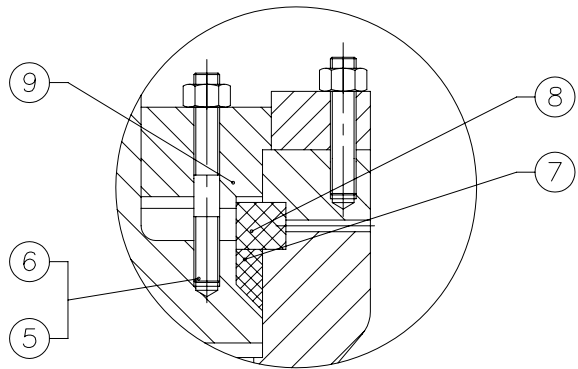
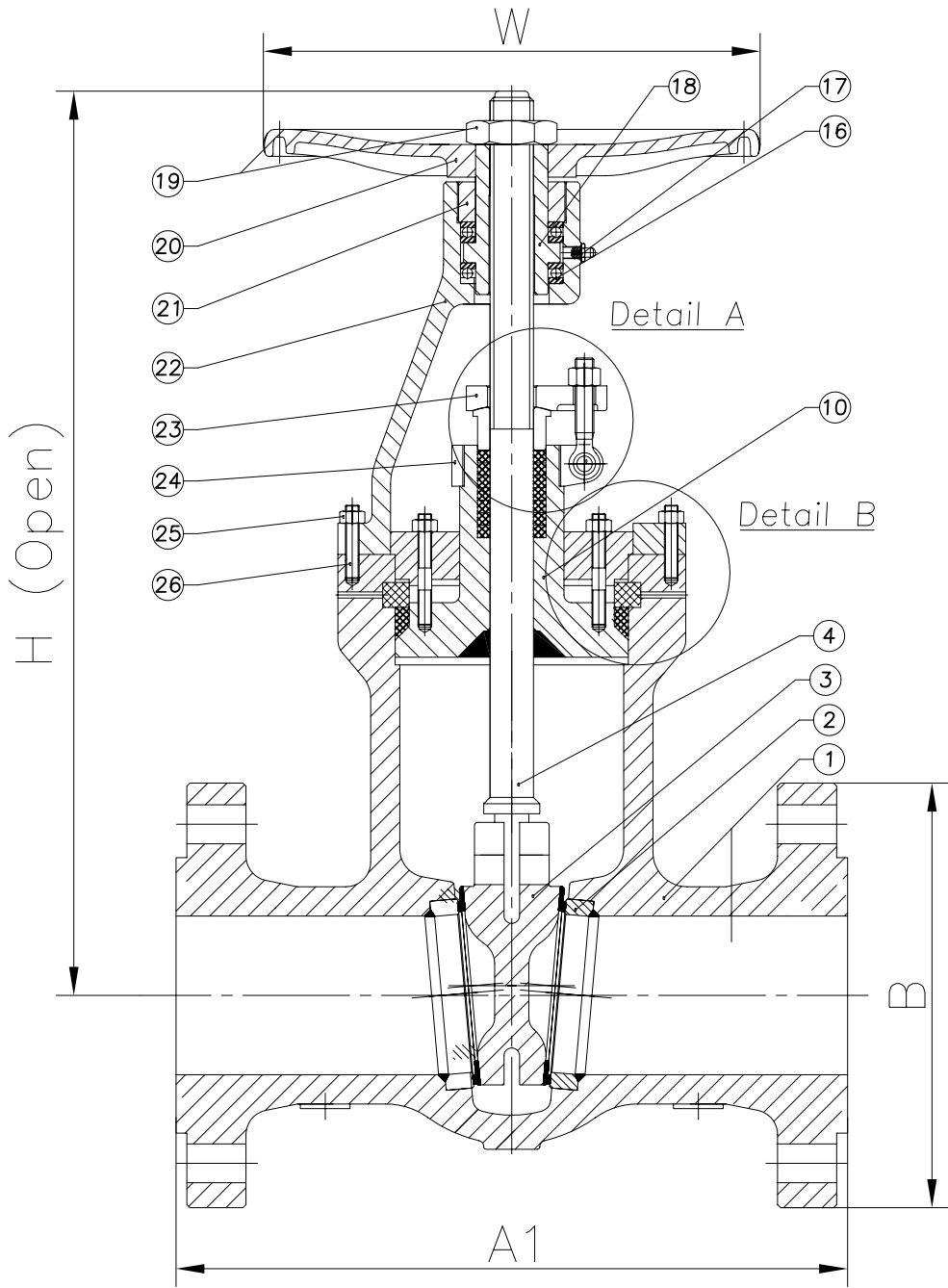
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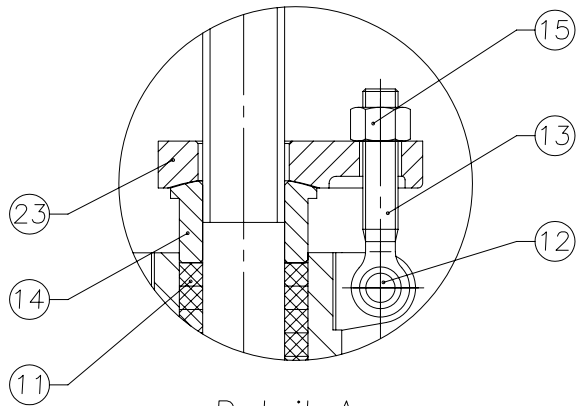
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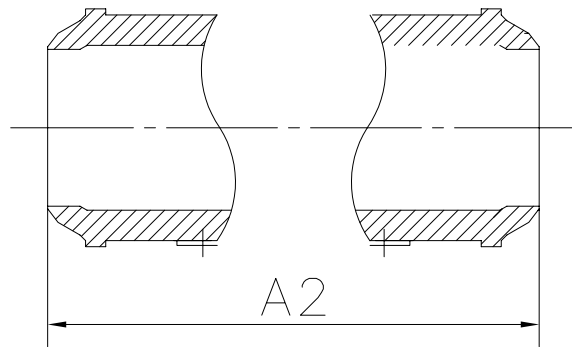
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Detail B



Detail A



Butt-Weld Ends

BILL OF MATERIALS

26	Yoke Pan Bolt Nuts		ASTM A194 2HM	
25	Yoke Pan Bolts		ASTM A193 B7M	
24	Support	1	ASTM A216 WCB	
23	Gland Flange	1	ASTM A216 WCB	
22	Yoke	1	ASTM A216 WCB	
21	Reataining Nut	1	Carbon Steel	
20	Handwheel	1	Ductile Iron	
19	H.W.Lock Nut	1	Carbon Steel	
18	Stem Nut	1	AL-Bronze	
17	Lubricating Cup	1	Copper	
16	Axletree	2	Assembly	
15	Gland Nut	2	ASTM A194 2HM	
14	Gland	1	ASTM A182 F6	
13	Gland Eye Bolt	2	ASTM A193 B7M	
12	Pin	2	Carbon Steel	
11	Packing	7	Flexible Graphite	
10	Bonnet	1	ASTM A216 WCB	
9	Bonnet Flange	1	ASTM A216 WCB	
8	Gasket	1	304+Graphite	
7	Packing	1	Flexible Graphite	
6	Bonnet Nut		ASTM A194 2HM	
5	Bonnet Bolt		ASTM A193 B7M	
4	Stem	1	ASTM A182 F6	
3	Wedge	1	ASTM A216 WCB+STL	
2	Seat	2	ASTM A182 F6+STL	
1	Body	1	ASTM A216 WCB	
NO.	Designation	QTY.	Material	Notes

Size	A1	A2	B	H (Open)
2	368	216	216	397
3	381	305	241	635
4	457	355	292	676
6	610	508	381	1083
8	737	660	470	1197
10	838	787	544.5	1367
12	965	914	610	1681
14	1029	990	641.5	1684
16	1130	1092	705	2148
18	1219	1092	785	2196

DRAWING TITLE:
API CAST STEEL CLASS 900
PRESSURE-SEAL BONNET, RF, GATE VALVES

CLIENT:

VENDOR PO REF:

EVC REF:



CAD. No. DRAWING NUMBER: 120036 REV

AREA No. 1 FACILITY TYPE SEQ. No. SHT. No.

ENGINEERING DATA

DESIGN CODE	API 600/ANSI B16.34	TEST PRESSURES		
FACE TO FACE DIMENSIONS	ASME B16.10	BODY	229.8	Barg
ENDS FLANGES DIMENSIONS	ASME B16.5	SEAT	168.52	Barg
TESTING CODE	API 598	BACKSEAT	168.52	Barg
		AIR - SEAT	6.0	Barg

REV	DATE	DESCRIPTION	BY	CHK	APP	SCALE:
						DRAWN DM DATE
						CHECKED SMN DATE
						APPROVED AW DATE

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MATERIALS TO NACE MR0175 LATEST EDITION (WETTED PARTS).

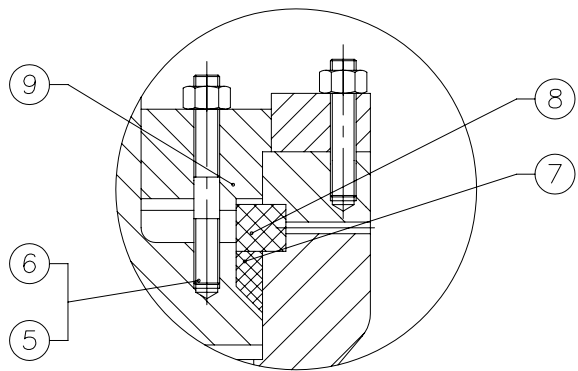
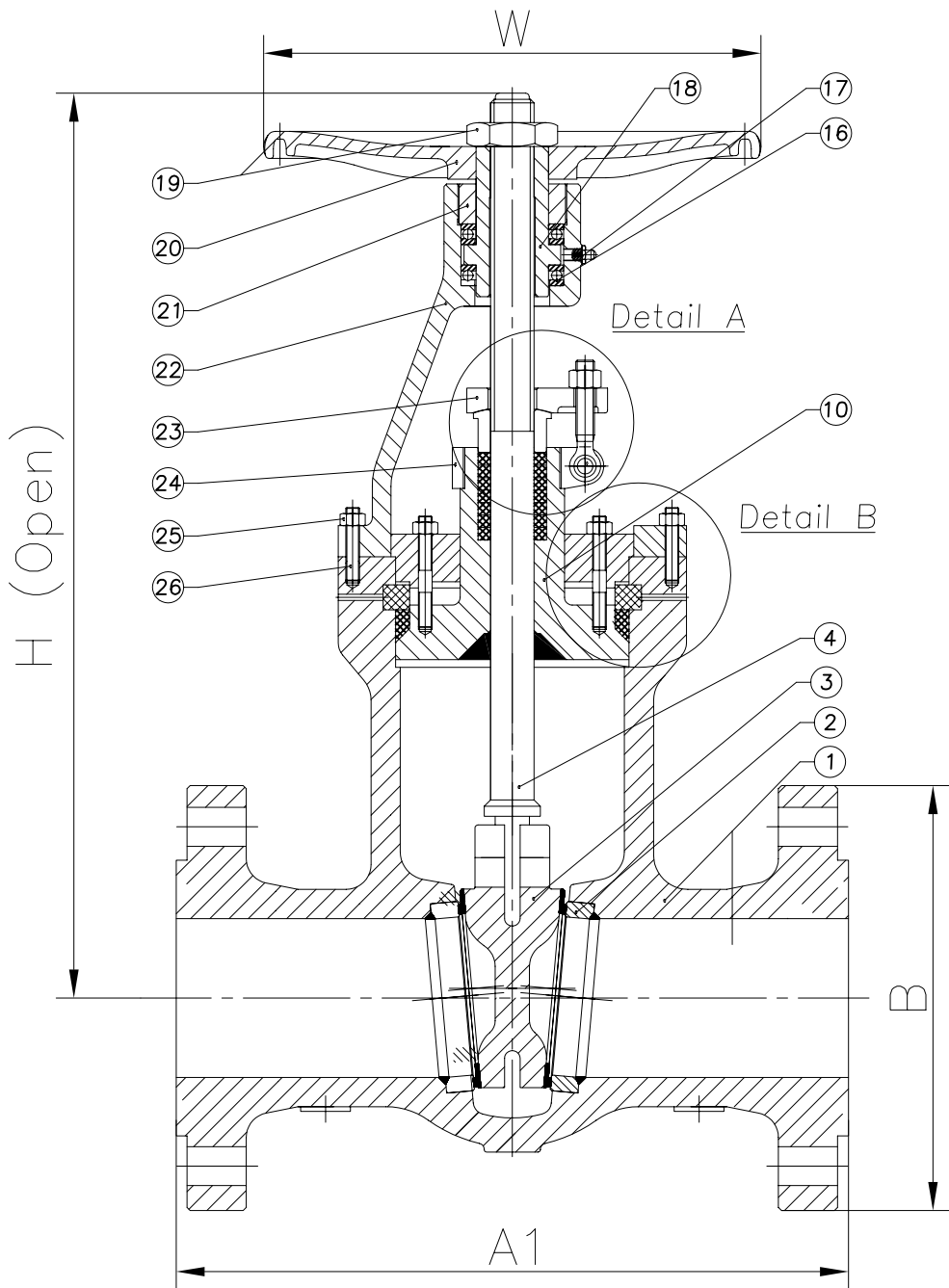
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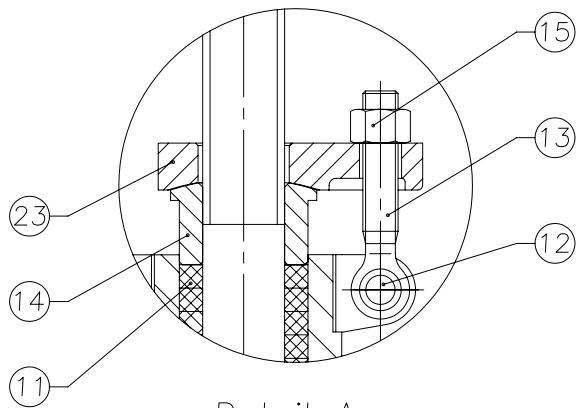
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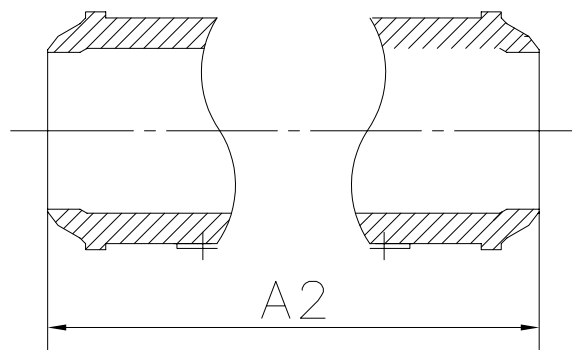
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Detail B



Detail A



Butt-Weld Ends

BILL OF MATERIALS

26	Yoke Pan Bolt Nuts		ASTM A194 2HM	
25	Yoke Pan Bolts		ASTM A193 B7M	
24	Support	1	ASTM A216 WCB	
23	Gland Flange	1	ASTM A216 WCB	
22	Yoke	1	ASTM A216 WCB	
21	Reataining Nut	1	Carbon Steel	
20	Handwheel	1	Ductile Iron	
19	H.W.Lock Nut	1	Carbon Steel	
18	Stem Nut	1	AL-Bronze	
17	Lubricating Cup	1	Copper	
16	Axletree	2	Assembly	
15	Gland Nut	2	ASTM A194 2HM	
14	Gland	1	ASTM A182 F6	
13	Gland Eye Bolt	2	ASTM A193 B7M	
12	Pin	2	Carbon Steel	
11	Packing	7	Flexible Graphite	
10	Bonnet	1	ASTM A216 WCB	
9	Bonnet Flange	1	ASTM A216 WCB	
8	Gasket	1	304+Graphite	
7	Packing	1	Flexible Graphite	
6	Bonnet Nut		ASTM A194 2HM	
5	Bonnet Bolt		ASTM A193 B7M	
4	Stem	1	ASTM A182 F6	
3	Wedge	1	ASTM A216 WCB+STL	
2	Seat	2	ASTM A182 F6+STL	
1	Body	1	ASTM A216 WCB	
NO.	Designation	QTY.	Material	Notes

Size	A1	A2	B	H (Open)
2	368	216	216	397
3	470	305	267	635
4	546	406	311	676
6	705	559	394	1083
8	832	711	483	1197
10	991	864	585	1367
12	1130	991	675	1681
14	1257	1067	750	1684
16	1384	1194	825	2003
18	1537	1092	915	2264

DRAWING TITLE:
 API CAST STEEL CLASS 1500
 PRESSURE-SEAL BONNET, RF, GATE VALVES
 CLIENT:
 VENDOR PO REF:
 EVC REF:



CAD. No. DRAWING NUMBER: 120037 REV
 AREA No. 1 FACILITY TYPE SEQ. No. SHT. No.

ENGINEERING DATA

DESIGN CODE	API 600/ANSI B16.34	TEST PRESSURES		
FACE TO FACE DIMENSIONS	ASME B16.10	BODY	382.95	Barg
ENDS FLANGES DIMENSIONS	ASME B16.5	SEAT	280.83	Barg
TESTING CODE	API 598	BACKSEAT	280.83	Barg
		AIR - SEAT	6.0	Barg

REV	DATE	DESCRIPTION	BY	CHK	APP	SCALE:
						DRAWN DM DATE
						CHECKED SMN DATE
						APPROVED AW DATE

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MATERIALS TO NACE MR0175 LATEST EDITION (WETTED PARTS).

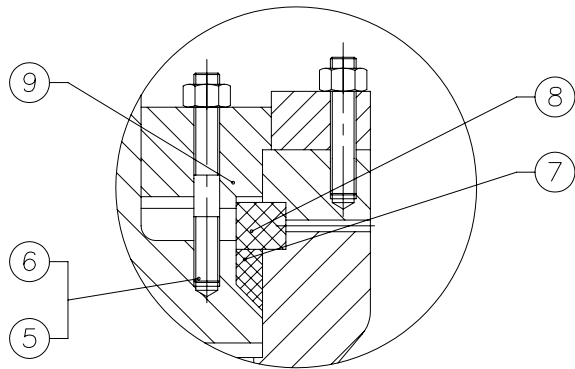
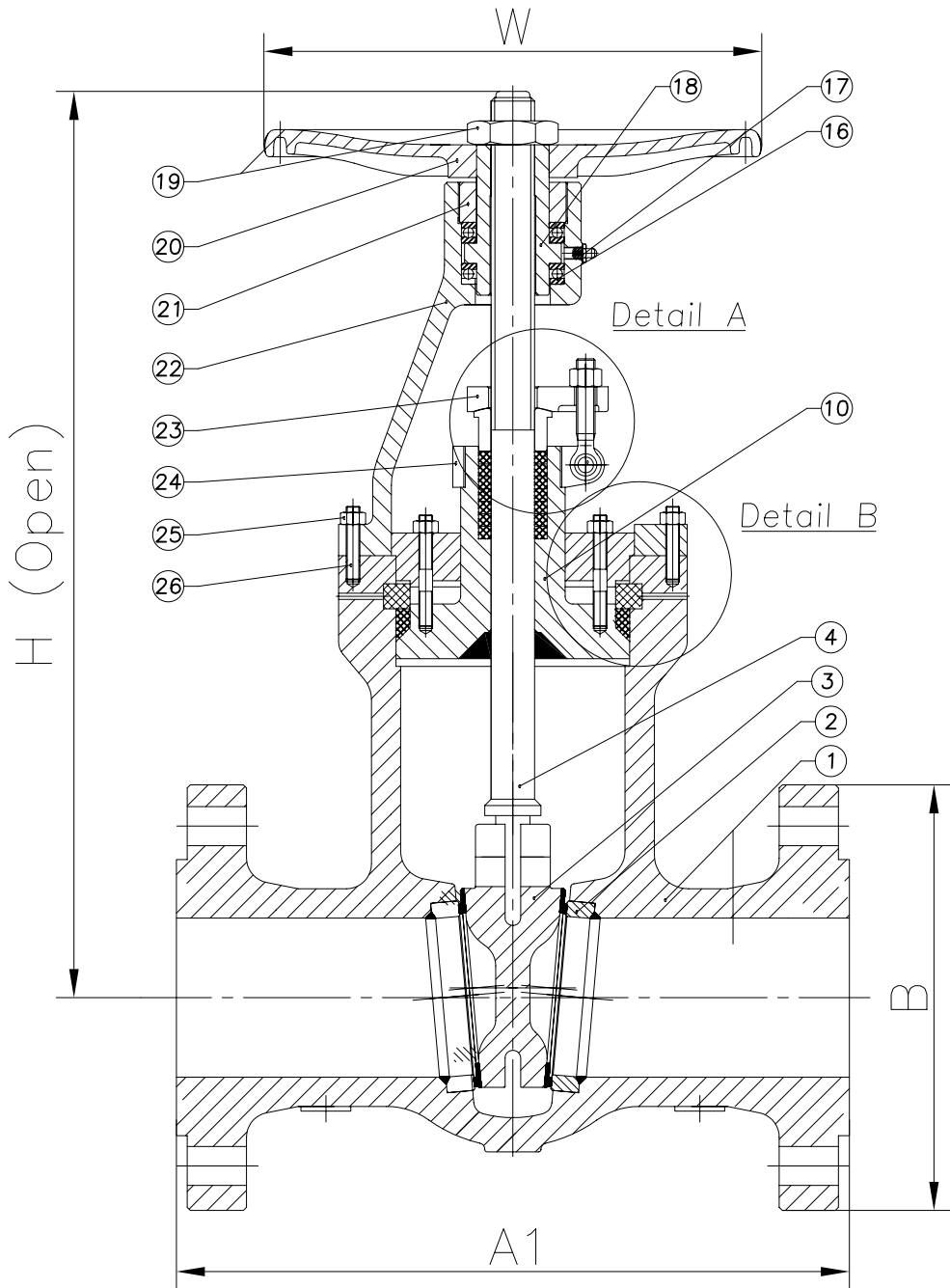
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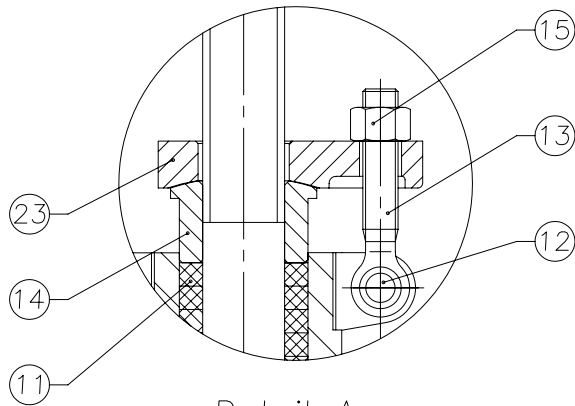
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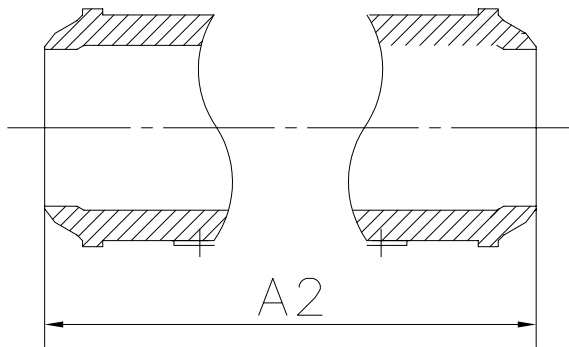
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Detail B



Detail A



Butt-Weld Ends

BILL OF MATERIALS

26	Yoke Pan Bolt Nuts		ASTM A194 2HM	
25	Yoke Pan Bolts		ASTM A193 B7M	
24	Support	1	ASTM A216 WCB	
23	Gland Flange	1	ASTM A216 WCB	
22	Yoke	1	ASTM A216 WCB	
21	Reataining Nut	1	Carbon Steel	
20	Handwheel	1	Ductile Iron	
19	H.W.Lock Nut	1	Carbon Steel	
18	Stem Nut	1	AL-Bronze	
17	Lubricating Cup	1	Copper	
16	Axletree	2	Assembly	
15	Gland Nut	2	ASTM A194 2HM	
14	Gland	1	ASTM A182 F6	
13	Gland Eye Bolt	2	ASTM A193 B7M	
12	Pin	2	Carbon Steel	
11	Packing	7	Flexible Graphite	
10	Bonnet	1	ASTM A216 WCB	
9	Bonnet Flange	1	ASTM A216 WCB	
8	Gasket	1	304+Graphite	
7	Packing	1	Flexible Graphite	
6	Bonnet Nut		ASTM A194 2HM	
5	Bonnet Bolt		ASTM A193 B7M	
4	Stem	1	ASTM A182 F6	
3	Wedge	1	ASTM A216 WCB+STL	
2	Seat	2	ASTM A182 F6+STL	
1	Body	1	ASTM A216 WCB	
NO.	Designation	QTY.	Material	Notes

Size	A1	A2	B	H (Open)
2	451	279	235	392
3	578	368	305	628
4	673	457	356	681
6	914	610	483	1043
8	1022	762	550	1222
10	1270	914	675	1334
12	1422	1041	760	1565

DRAWING TITLE:
 API CAST STEEL CLASS 2500
 PRESSURE-SEAL BONNET, RF, GATE VALVES
 CLIENT:
 VENDOR PO REF:
 EVC REF:



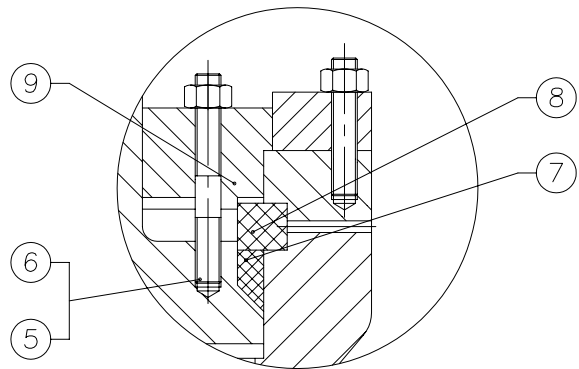
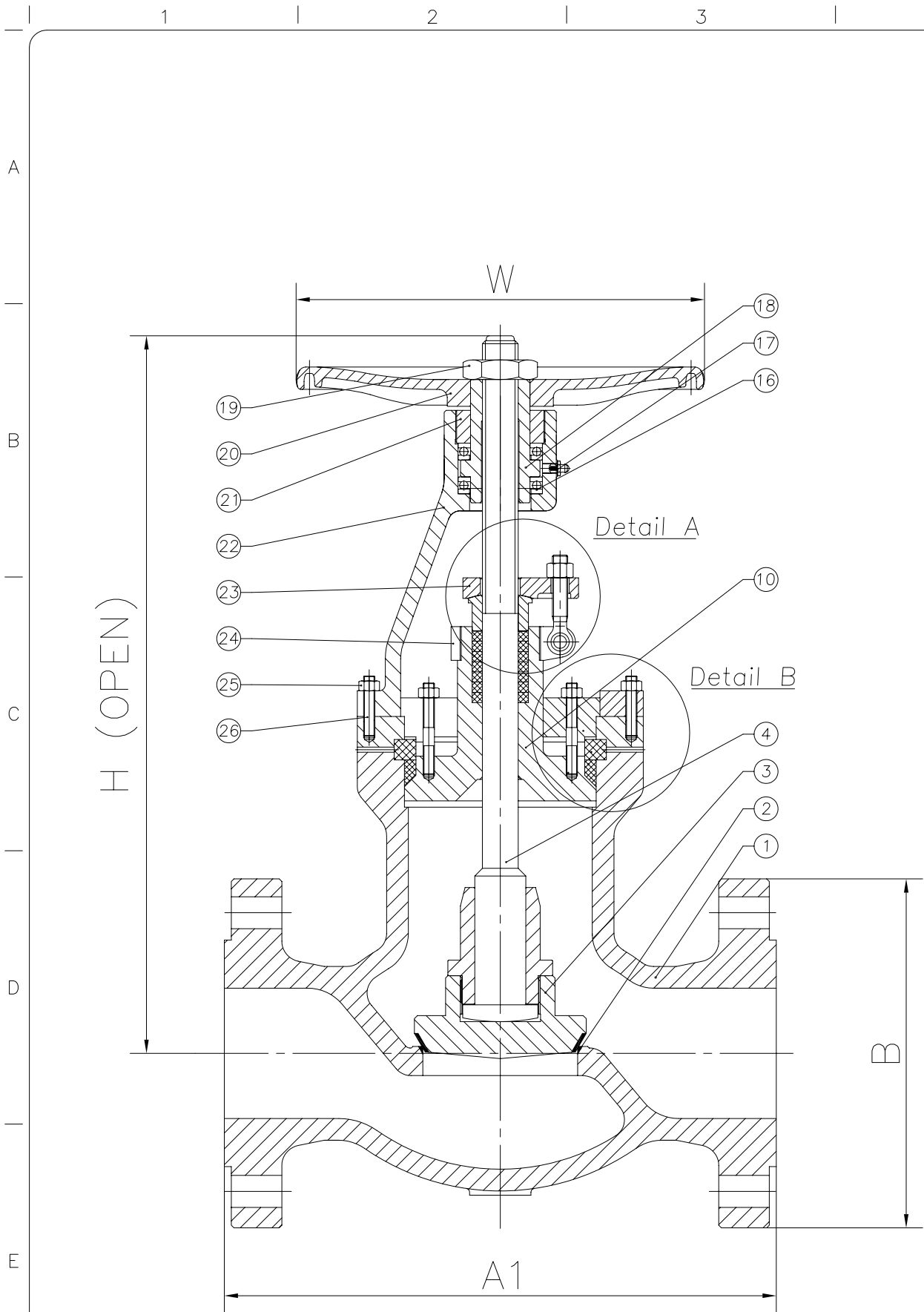
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 AREA No. 1 FACILITY TYPE SEQ. No. SHT. No.

ENGINEERING DATA

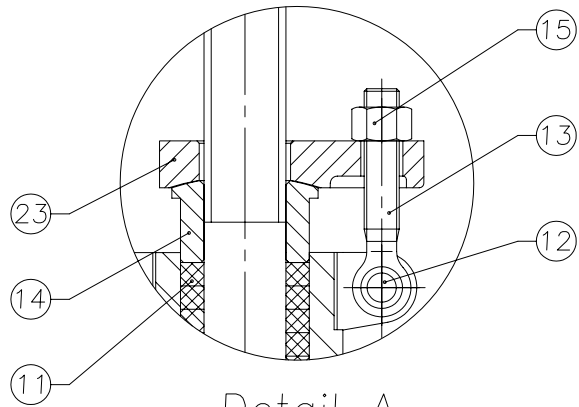
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FACE TO FACE DIMENSIONS	ASME B16.10	BODY	638.25	Barg
ENDS FLANGES DIMENSIONS	ASME B16.5	SEAT	468.05	Barg
TESTING CODE	API 598	BACKSEAT	468.05	Barg
		AIR - SEAT	6.0	Barg

REV	DATE	DESCRIPTION	BY	CHK	APP	SCALE:
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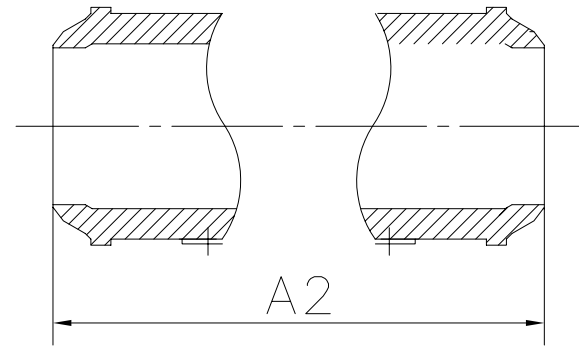
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Detail B



Detail A



Butt-Weld Ends

BILL OF MATERIALS

NO.	Designation	QTY.	Material	Notes
26	Yoke Pan Bolt Nuts		ASTM A194 2HM	
25	Yoke Pan Bolts		ASTM A193 B7M	
24	Support	1	ASTM A216 WCB	
23	Gland Flange	1	ASTM A216 WCB	
22	Yoke	1	ASTM A216 WCB	
21	Retaining Nut	1	Carbon Steel	
20	Handwheel	1	Ductile Iron	
19	H.W.Lock Nut	1	Carbon Steel	
18	Stem Nut	1	AL-Bronze	
17	Lubricating Cup	1	Copper	
16	Axletree	2	Assembly	
15	Gland Nut	2	ASTM A194 2HM	
14	Gland	1	ASTM A182 F6	
13	Gland Eye Bolt	2	ASTM A193 B7M	
12	Pin	2	Carbon Steel	
11	Packing	7	Flexible Graphite	
10	Bonnet	1	ASTM A216 WCB	
9	Bonnet Flange	1	ASTM A216 WCB	
8	Gasket	1	304+Graphite	
7	Packing	1	Flexible Graphite	
6	Bonnet Nut		ASTM A194 2HM	
5	Bonnet Bolt		ASTM A193 B7M	
4	Stem	1	ASTM A182 F6a	
3	Disc	1	ASTM A216 WCB+13Cr	
2	Seat	2	ASTM A216 WCB+STL	
1	Body	1	ASTM A216 WCB	

Size	A1	A2	B	H (Open)
2	292	178	165	435
3	356	254	210	598
4	432	305	273	646
6	559	457	356	1011
8	660	660	419	1089
10	787	787	510	1289
12	838	838	559	1597
14	889	889	605	1597
16	991	990	685	1854

ENGINEERING DATA

DESIGN CODE	API 600/ANSI B16.34	TEST PRESSURES		
FACE TO FACE DIMENSIONS	ASME B16.10	BODY	153.15	Barg
ENDS FLANGES DIMENSIONS	ASME B16.5	SEAT	112.31	Barg
TESTING CODE	API 598	BACKSEAT	112.31	Barg
		AIR - SEAT	6.0	Barg

REV	DATE	DESCRIPTION	BY	CHK	APP	SCALE:
						DRAWN DM DATE
						CHECKED SMN DATE
						APPROVED AW DATE

DRAWING TITLE:
API CAST STEEL CLASS 600
PRESSURE-SEAL BONNET, RF, GLOBE VALVES

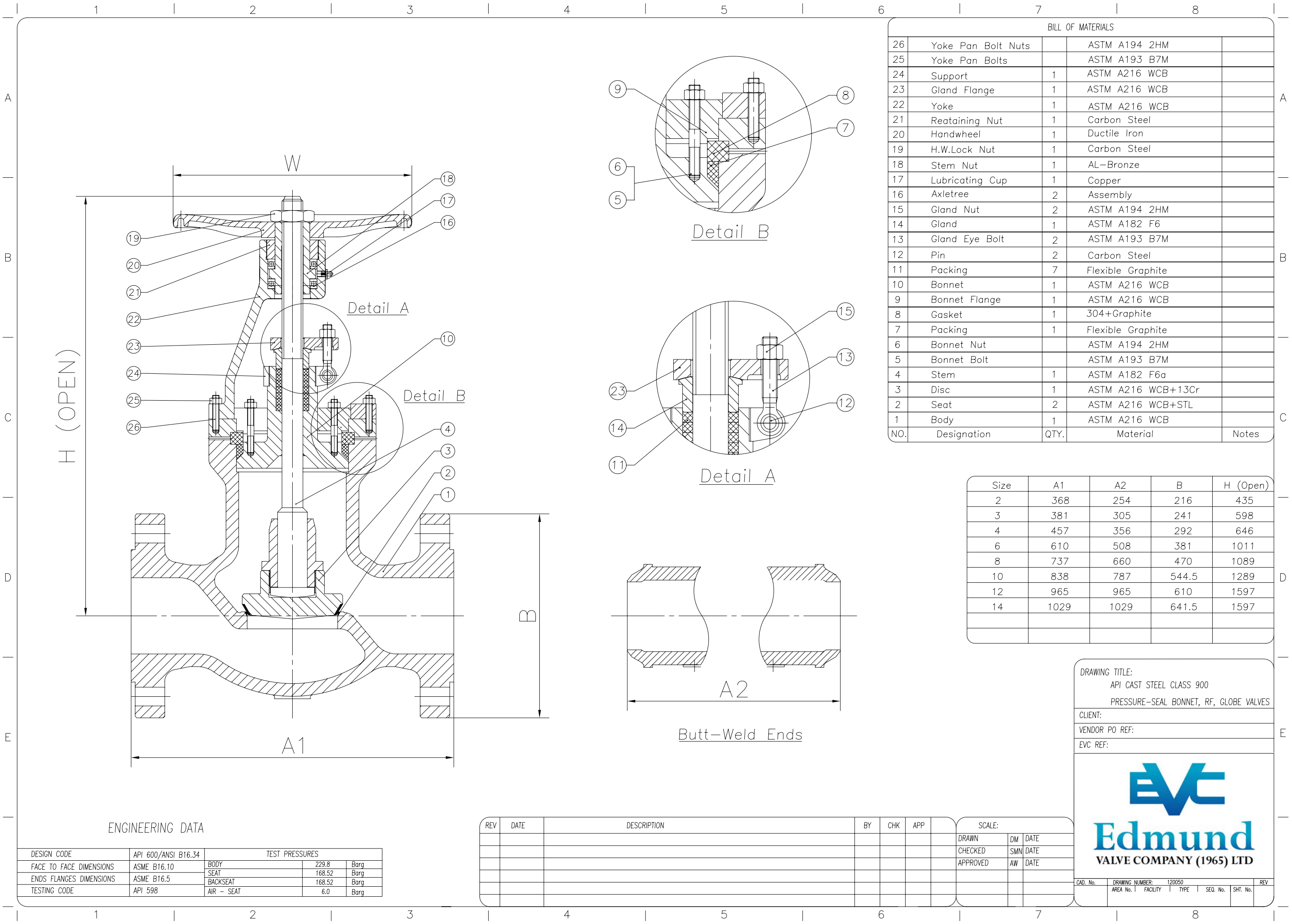
CLIENT:
VENDOR PO REF:
EVC REF:



CAD. No. DRAWING NUMBER: 120049
AREA No. 1 FACILITY TYPE SEQ. No. SHT. No. REV

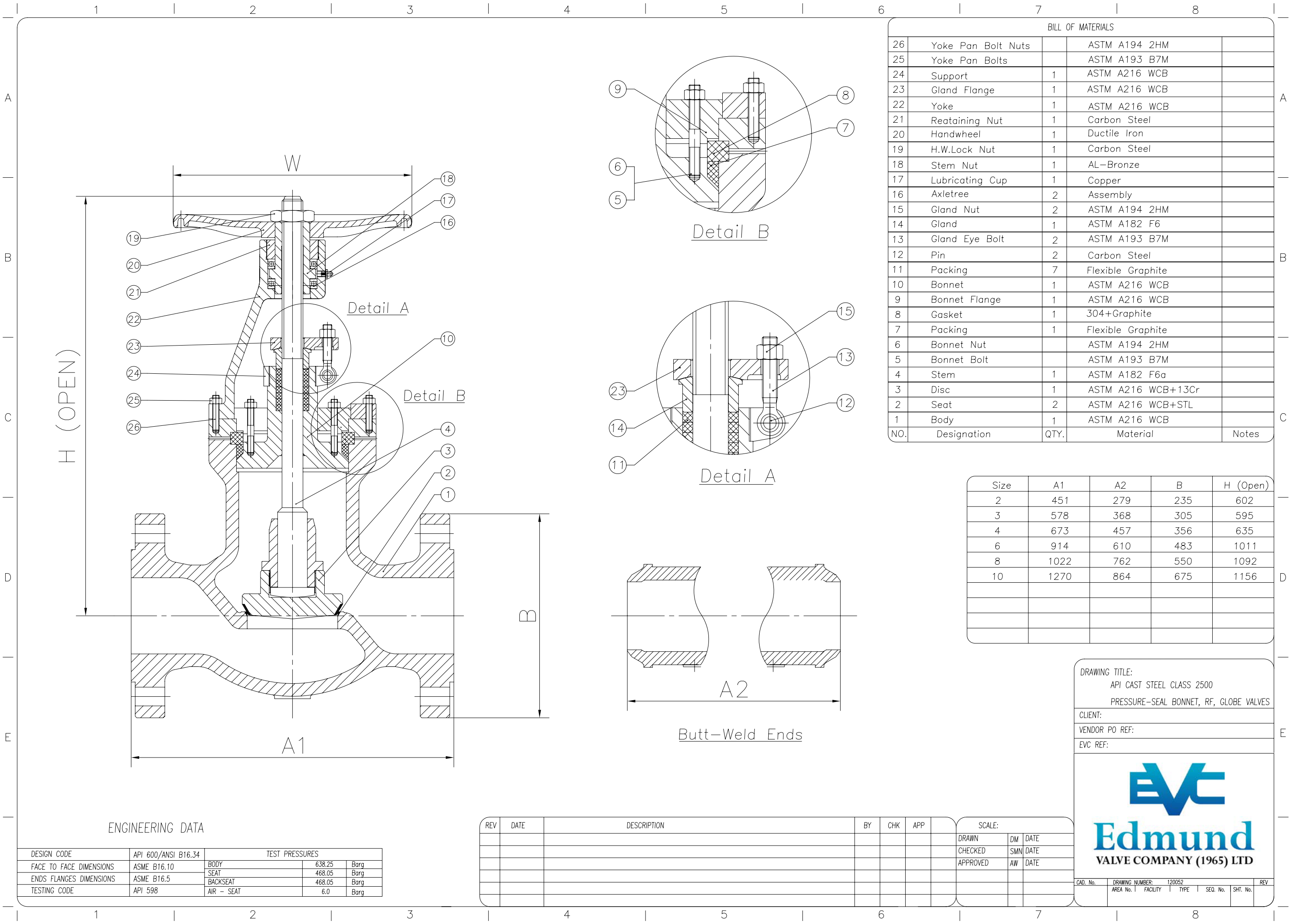
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MATERIALS TO NACE MR0175 LATEST EDITION (WETTED PARTS).



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MATERIALS TO NACE MR0175 LATEST EDITION (WETTED PARTS).



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A

B

C

D

E

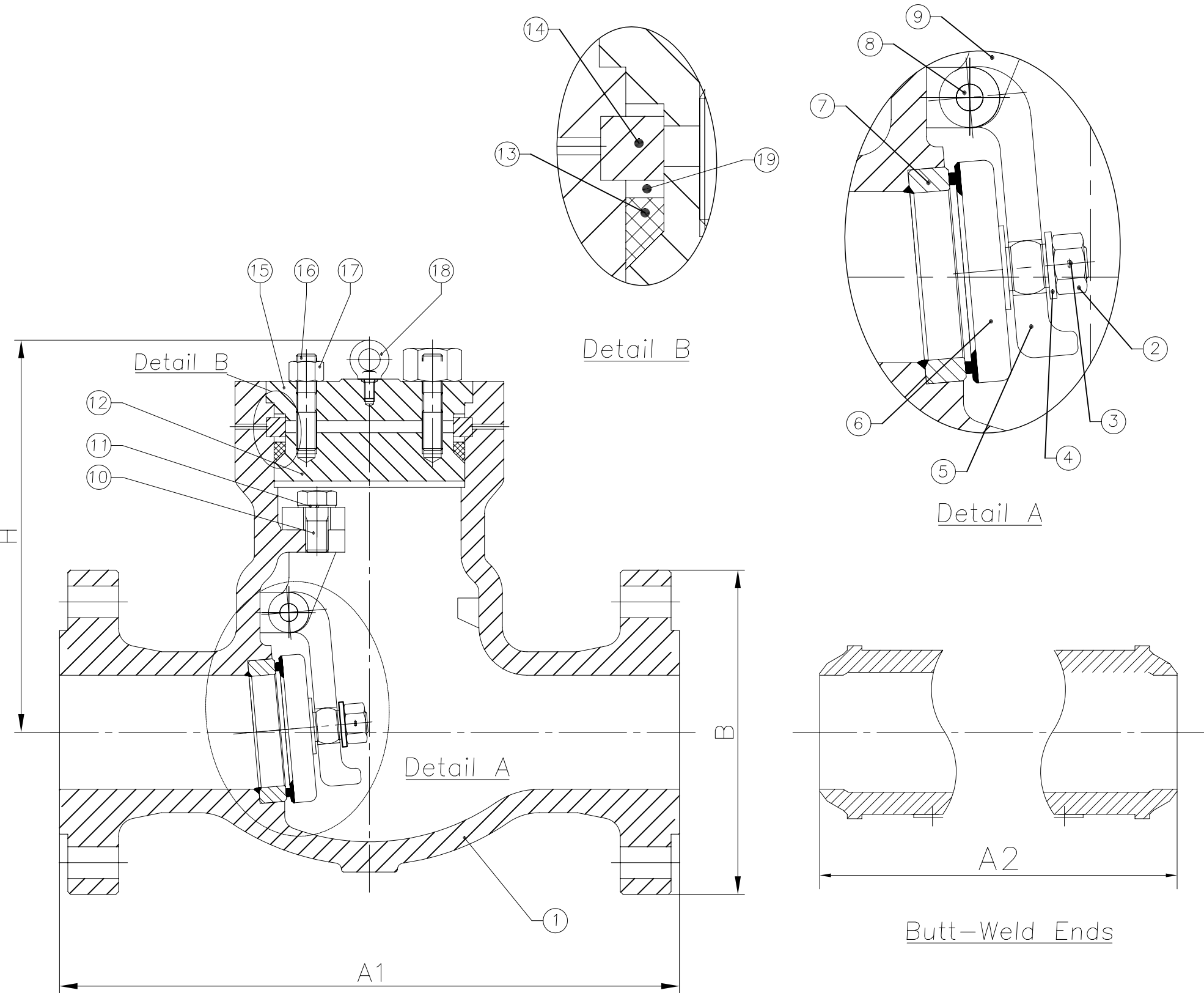
A

B

C

D

E



BILL OF MATERIALS				
NO.	DESIGNATION	QTY	MATERIAL	NOTES
1	BODY	1	ASTM A216 WCB	
2	VALVE NUT	1	ASTM A194 2HM	
3	DISC NUT PIN	1	CARBON STEEL	
4	DISC WASHER	1	CARBON STEEL	
5	HINGE	1	ASTM A216 WCB	
6	DISC	1	ASTM A216 WCB+STL	
7	SEAT	1	ASTM A105+13%Cr	
8	HINGE PIN	1	ASTM A182 F6a	
9	BEARING BRACKET	1	ASTM A216 WCB	
10	BEARING BRACKET BOLT	1	ASTM A193 B7M	
11	SPRING WASHER	1	SPRING STEEL	
12	BONNET	1	ASTM A216 WCB	
13	GASKET	1	304+GRAPHITE	
14	SEPARATE RING	1	ASTM A276 410	
15	COVER	1	ASTM A216 WCB	
16	COVER BOLT		ASTM A193 B7M	
17	COVER NUT		ASTM A194 2HM	
18	STATIONARY RINGS	1	CARBON STEEL	
19	THRUST RING	1	ASTM A276 410	

Size	A1	A2	B	H
2	292	178	165	241
3	356	254	210	270
4	432	305	273	318
6	559	457	356	400
8	660	584	419	587
10	787	771	509	606
12	838	813	559	695
14	889	889	604	749
16	991	991	685	730
18	1092	1092	743	730

Butt-Weld Ends

ENGINEERING DATA

DESIGN CODE	BS 1868/ANSI B16.34	TEST PRESSURES		
FACE TO FACE DIMENSIONS	ASME B16.10	BODY	153.15	Barg
ENDS CONNECTION DIMENSIONS	ASME B16.25	SEAT	112.31	Barg
TESTING CODE	API 598	BACKSEAT	112.31	Barg
		AIR - SEAT	6.0	Barg

				BY	CHK	APP	SCALE:	
							DRAWN	DATE
							CHECKED	DATE
							APPROVED	DATE

DRAWING TITLE:
API CAST STEEL CLASS 600
PS BONNET, RF, SWING CHECK VALVE

PROJECT:

PACKAGE:

VENDOR DOC.NO.:

Edmund
VALVE COMPANY (1965) LTD

CAD. No.	DRAWING NUMBER: 120053				REV
AREA No.	FACILITY	TYPE	SEQ. No.	SHT. No.	

[illegible]

Size	A1	A2	B	H
2	368	216	216	241
3	381	305	241	270
4	457	356	292	318
6	610	508	381	400
8	737	660	470	587
10	838	787	544.5	606
12	965	914	610	695
14	1029	991	641.5	749
16	1130	1092	705	730

DESIGN CODE	BS 1868/ANSI B16.34	TEST PRESSURES		
FACE TO FACE DIMENSIONS	ASME B16.10	BODY	229.8	Barg
ENDS CONNECTION DIMENSIONS	ASME B16.25	SEAT	168.52	Barg
		BACKSEAT	168.52	Barg
TESTING CODE	API 598	AIR – SEAT	6.0	Barg

	BY	CHK	APP		SCALE:	
					DRAWN	DATE
					CHECKED	DATE
					APPROVED	DATE



Edmund
VALVE COMPANY (1965) LTD

CAD. No.	DRAWING NUMBER: 120054				
	AREA No.	FACILITY	TYPE	SEQ. No.	SHT. No.

MATERIALS TO NACE MR0175 LATEST EDITION (WETTED PARTS).
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A

B

C

D

E

A

B

C

D

E

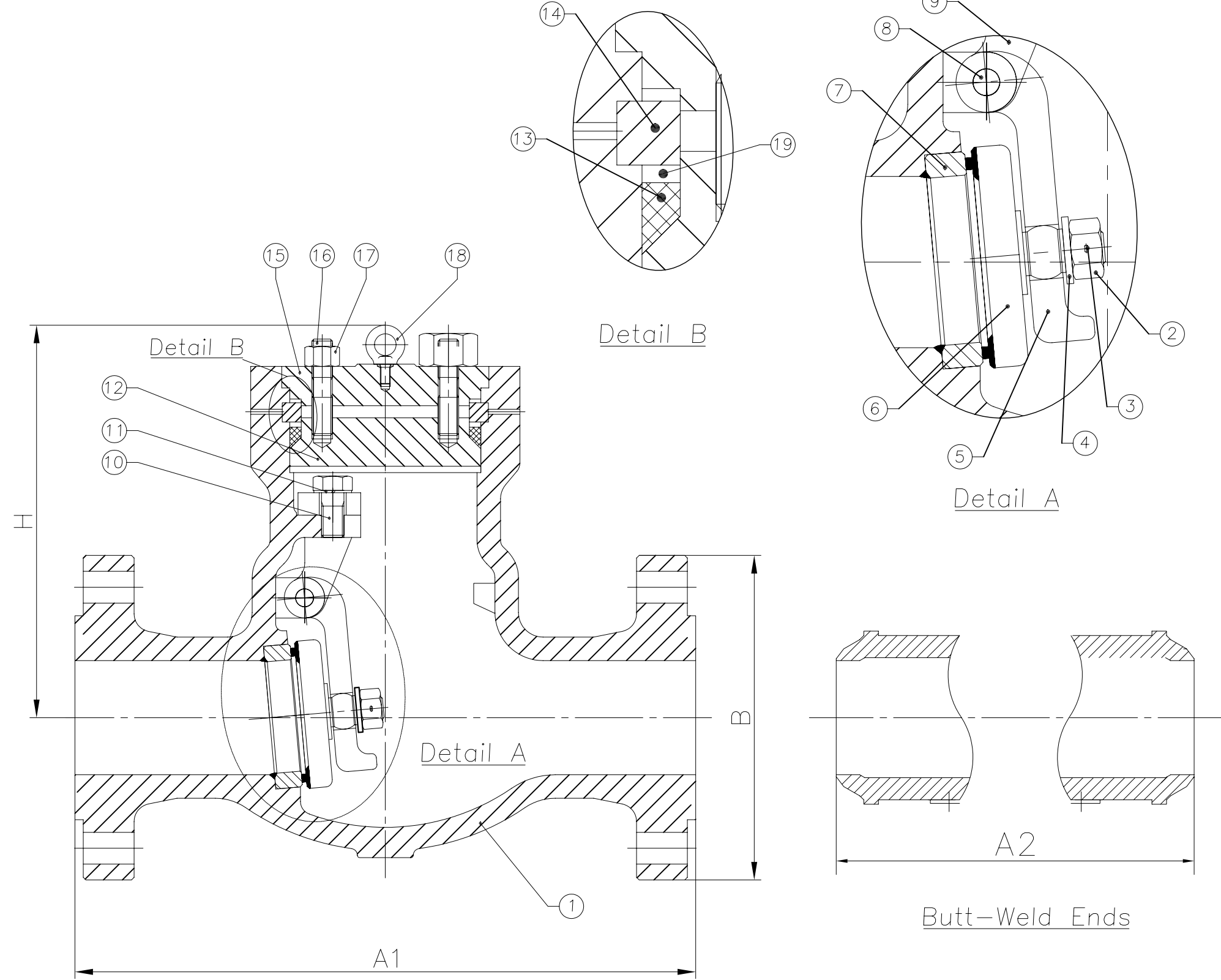
BILL OF MATERIALS				
NO.	DESIGNATION	QTY	MATERIAL	NOTES
1	BODY	1	ASTM A216 WCB	
2	VALVE NUT	1	ASTM A194 2HM	
3	DISC NUT PIN	1	CARBON STEEL	
4	DISC WASHER	1	CARBON STEEL	
5	HINGE	1	ASTM A216 WCB	
6	DISC	1	ASTM A216 WCB+STL	
7	SEAT	1	ASTM A105+13%Cr	
8	HINGE PIN	1	ASTM A182 F6a	
9	BEARING BRACKET	1	ASTM A216 WCB	
10	BEARING BRACKET BOLT	1	ASTM A193 B7M	
11	SPRING WASHER	1	SPRING STEEL	
12	BONNET	1	ASTM A216 WCB	
13	GASKET	1	304+GRAPHITE	
14	SEPARATE RING	1	ASTM A276 410	
15	COVER	1	ASTM A216 WCB	
16	COVER BOLT		ASTM A193 B7M	
17	COVER NUT		ASTM A194 2HM	
18	STATIONARY RINGS	1	CARBON STEEL	
19	THRUST RING	1	ASTM A276 410	

Size	A1	A2	B	H
2	368	216	216	241
3	470	305	267	273
4	546	406	311	318
6	705	559	394	422
8	832	711	483	480
10	991	864	585	590
12	1130	991	675	645
14	1257	1067	750	711
16	1384	1194	825	749

DRAWING TITLE:
API CAST STEEL CLASS 1500
PS BONNET, RF, SWING CHECK VALVE
PROJECT:
PACKAGE:
VENDOR DOC.NO.:



CAD. No. DRAWING NUMBER: 120055 REV
AREA No. FACILITY TYPE SEQ. No. SHT. No.



ENGINEERING DATA

DESIGN CODE	BS 1868/ANSI B16.34	TEST PRESSURES		
FACE TO FACE DIMENSIONS	ASME B16.10	BODY	382.95	Barg
ENDS CONNECTION DIMENSIONS	ASME B16.25	SEAT	280.83	Barg
TESTING CODE	API 598	BACKSEAT	280.83	Barg
		AIR - SEAT	6.0	Barg

BY	CHK	APP	SCALE:
			DRAWN DATE
			CHECKED DATE
			APPROVED DATE

MATERIALS TO NACE MR0175 LATEST EDITION (WETTED PARTS).
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A

B

C

D

E

A

B

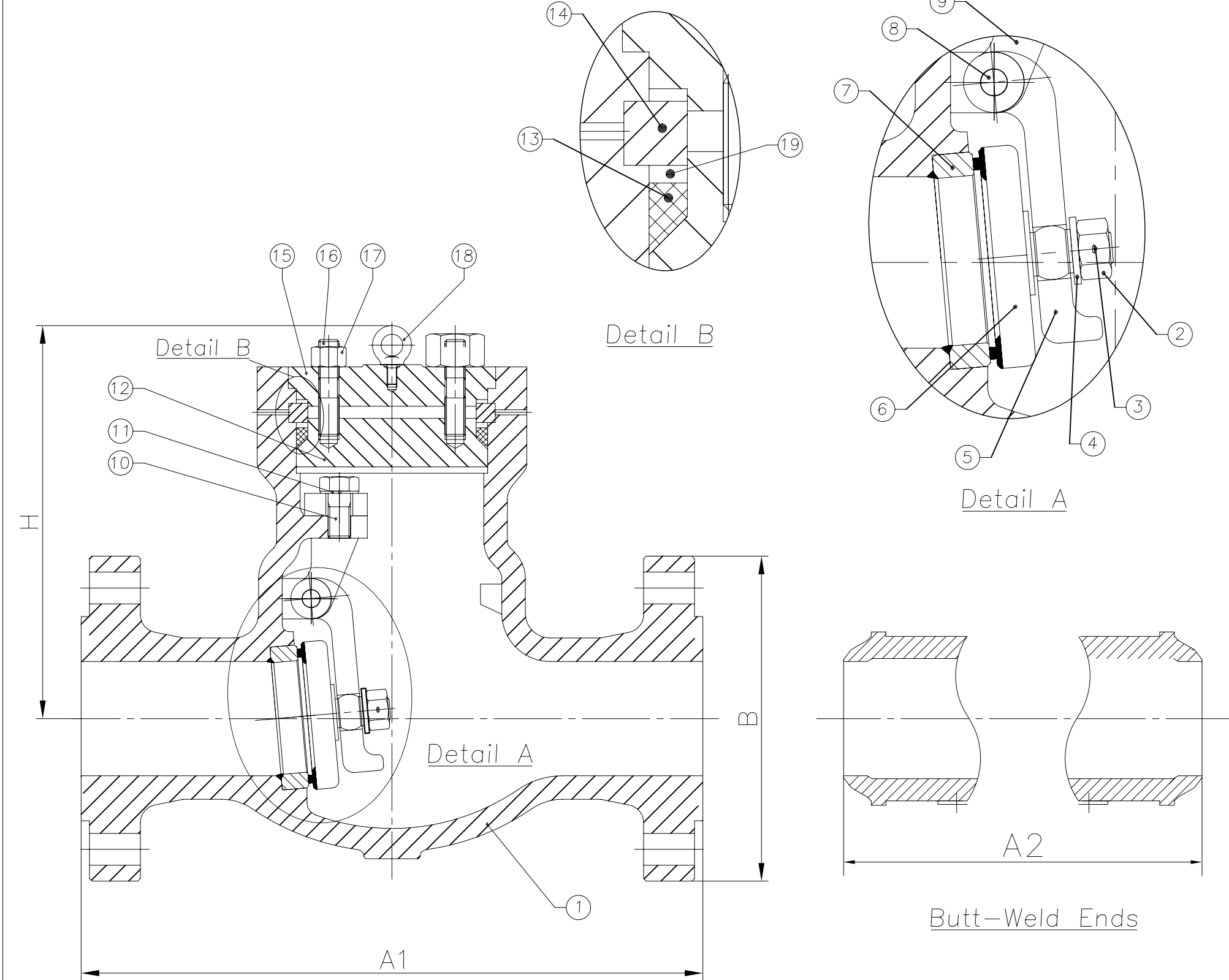
C

D

E

BILL OF MATERIALS				
NO.	DESIGNATION	QTY	MATERIAL	NOTES
1	BODY	1	ASTM A216 WCB	
2	VALVE NUT	1	ASTM A194 2HM	
3	DISC NUT PIN	1	CARBON STEEL	
4	DISC WASHER	1	CARBON STEEL	
5	HINGE	1	ASTM A216 WCB	
6	DISC	1	ASTM A216 WCB+STL	
7	SEAT	1	ASTM A105+13%Cr	
8	HINGE PIN	1	ASTM A182 F6a	
9	BEARING BRACKET	1	ASTM A216 WCB	
10	BEARING BRACKET BOLT	1	ASTM A193 B7M	
11	SPRING WASHER	1	SPRING STEEL	
12	BONNET	1	ASTM A216 WCB	
13	GASKET	1	304+GRAPHITE	
14	SEPARATE RING	1	ASTM A276 410	
15	COVER	1	ASTM A216 WCB	
16	COVER BOLT		ASTM A193 B7M	
17	COVER NUT		ASTM A194 2HM	
18	STATIONARY RINGS	1	CARBON STEEL	
19	THRUST RING	1	ASTM A276 410	

Size	A1	A2	B	H
2	451	279	235	245
3	578	368	305	270
4	673	457	356	318
6	914	610	483	451
8	1022	762	550	559
10	1270	914	675	578
12	1422	1041	760	654



Butt-Weld Ends

ENGINEERING DATA

DESIGN CODE	BS 1868/ANSI B16.34	TEST PRESSURES		
FACE TO FACE DIMENSIONS	ASME B16.10	BODY	638.25	Barg
ENDS CONNECTION DIMENSIONS	ASME B16.25	SEAT	468.05	Barg
TESTING CODE	API 598	BACKSEAT	468.05	Barg
		AIR - SEAT	6.0	Barg

				BY	CHK	APP	SCALE:	
							DRAWN	DATE
							CHECKED	DATE
							APPROVED	DATE

DRAWING TITLE:
API CAST STEEL CLASS 2500
PS BONNET, RF, SWING CHECK VALVE

PROJECT:

PACKAGE:

VENDOR DOC.NO.:

CAD. No.	DRAWING NUMBER: 120056	REV
AREA No.	FACILITY	TYPE
SEQ. No.	SHT. No.	