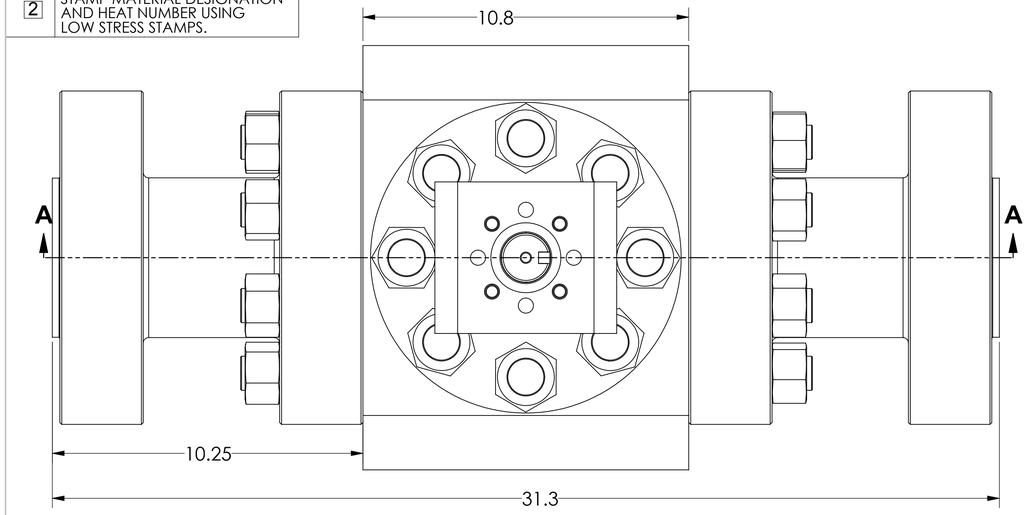
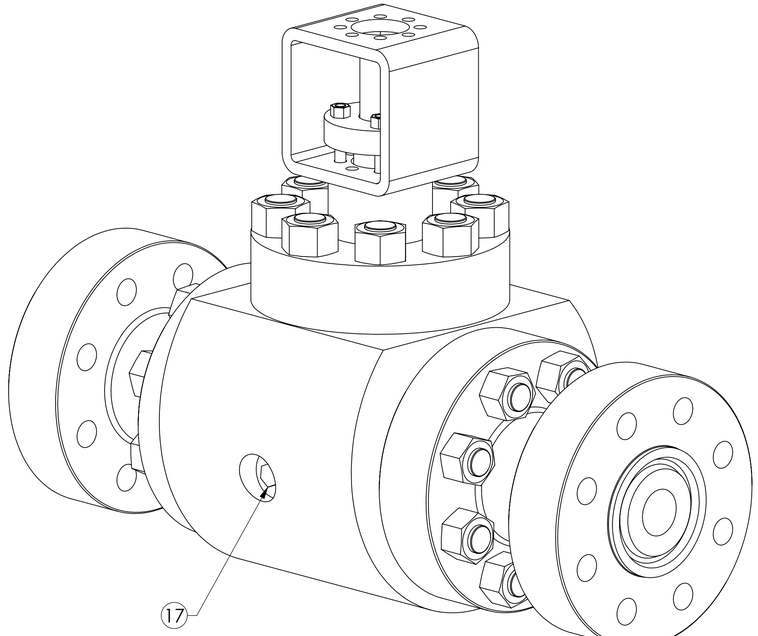
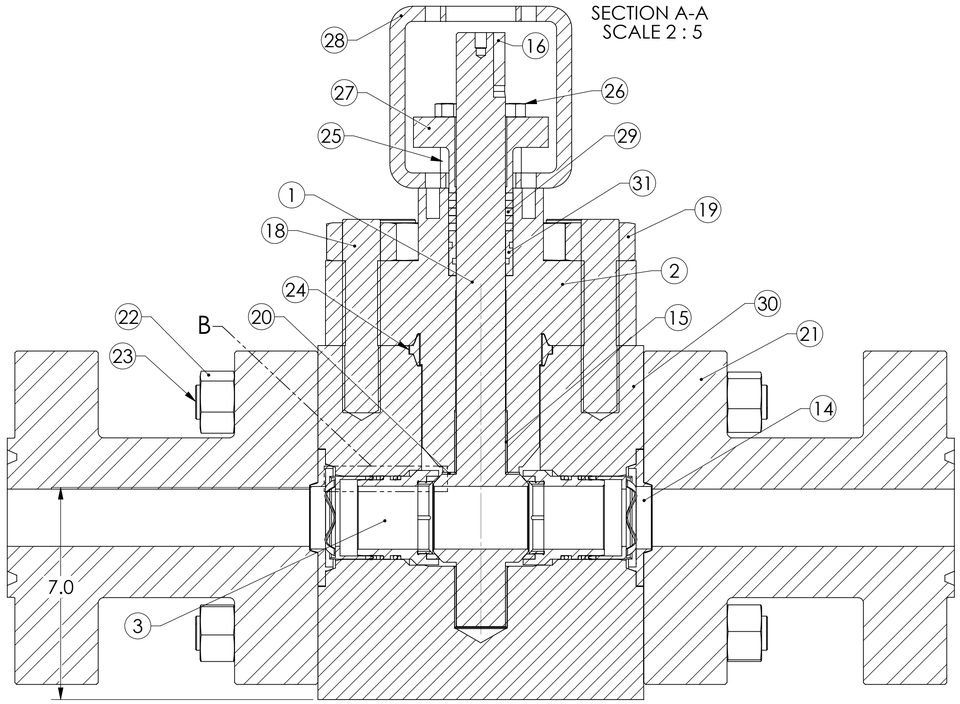
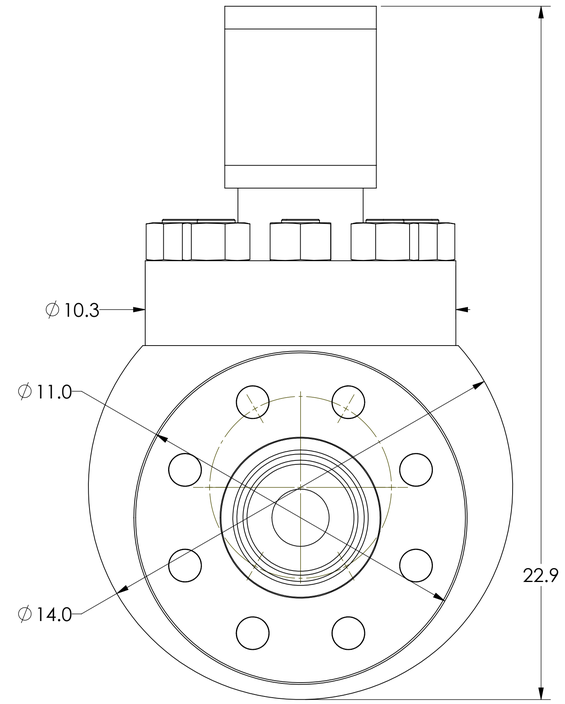
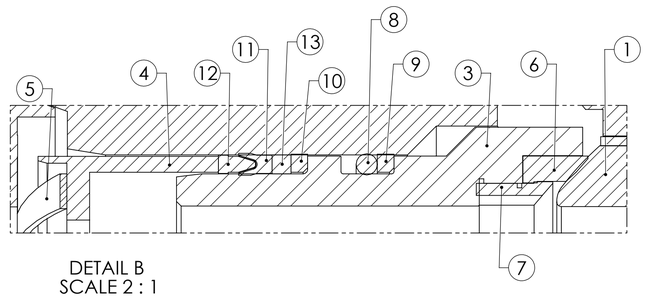
LOC	MARKING DATA
1	2" FULL PORT ANSI 2500 TE3 UNBALANCED BALL
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.











DETAIL B
SCALE 2 : 1

ITEM NO.	PART	MATERIAL	QTY.
1	TRUNNION BALL	4130 API 75KSI HARD CHROME	1
2	BONNET	4130 API 75KSI	1
3	SEAT CARRIER SPOOL	4130 API 75KSI	2
4	SEAT PUSH RING	4130 API 75KSI	2
5	WAVESPRING	INCONEL X750	2
6	SEAT SEAL	CF PEEK	2
7	SEAT RETAINER	4130 API 75KSI	2
8	PISTON O-RING	FKM V1238-95 OR EQUAL	2
9	ANTI-EXTRUSION RING	CF PEEK	2
10	ANTI-EXTRUSION RING	CF PEEK	2
11	LIP SEAL	PTFE / STAINLESS	2
12	LIP SEAL PUSH RING	AISI 316SS	2
13	FIRE SEAL	BRAIDED GRAPHITE	2
14	BODY SEAL RING	17-4 PH	2
15	TRUNNION BUSHING	METAL BEARING	2
16	DRIVE KEY	CARBON STEEL	1
17	NPT PLUG	CARBON STEEL	1
18	BONNET STUD	GRADE B7	8
19	BONNET HHEX NUT	GRADE 5	8
20	THRUST BEARING	CF PEEK	1
21	ENDFLANGE	TAILPIECE; 3 GR16 HUB	2
22	BODY HHEX NUT	GRADE 5	16
23	BODY STUD	GRADE B7	16
24	BONNET SEAL RING	17-4 PH	1
25	PACKING STUD	GRADE B7	4
26	PACKING NUT	GRADE 5	4
27	PACKING FLANGE	4130 API 75KSI	1
28	BRACKET	CARBON STEEL	1
29	STEM SEAL	FKM V1238-95 / GRAPHOIL	5
30	BODY	4130 API 75KSI	1
31	STEM SEAL SPOOL RING	4130 API 75KSI	1

REQUIRED ACTUATION TORQUE 40,900 INCH POUNDS
AT 11,250 PSIG DIFFERENTIAL PRESSURE (INCLUDES 1.25 SAFETY FACTOR)

THROUGH LEAKAGE PER FCI 70-2 CLASS VI

CUSTOM PIPE FLANGES DESIGNED TO BOILER CODE FOR QUOTATION.
WILL MATCH TO CUSTOMERS PIPING SPECIFICATION ON RECEIPT OF ORDER.
RTJ # 26 FLANGE SEAL RING GROOVE SHOWN.

VALVE INTERNALS MATERIALS OF CONSTRUCTION SUBJECT TO DETAILED MEDIA/SERVICE CONDITIONS FROM END USER

REV.	ECN	DESCRIPTION	DATE	BY	APPR'D
A	X	RELEASED DRAWING	7-13-11	BC	

REVISIONS

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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
.X= ±.030
.XX= ±.015
.XXX= ±.005
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS FINISH
CONCENTRICITY= ±.002 T.I.R.
BREAK ALL SHARP EDGES

DO NOT SCALE DRAWING

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CAD GENERATED DRAWING,
DO NOT MANUALLY UPDATE

APPROVALS	DATE
DRAWN BC	7-13-11
CHECKED	
RESP ENG	
APPROVED	
JOB NUMBER	

Cornerstone Valve
5506 Clara Road, Houston, TX, 77041

TITLE
2" FULL PORT ANSI 4500 TE3 UNBALANCED BALL

SIZE	DWG. NO.	REV.
D	2011BC15	A

SCALE: NTS | SHEET 1 OF 1