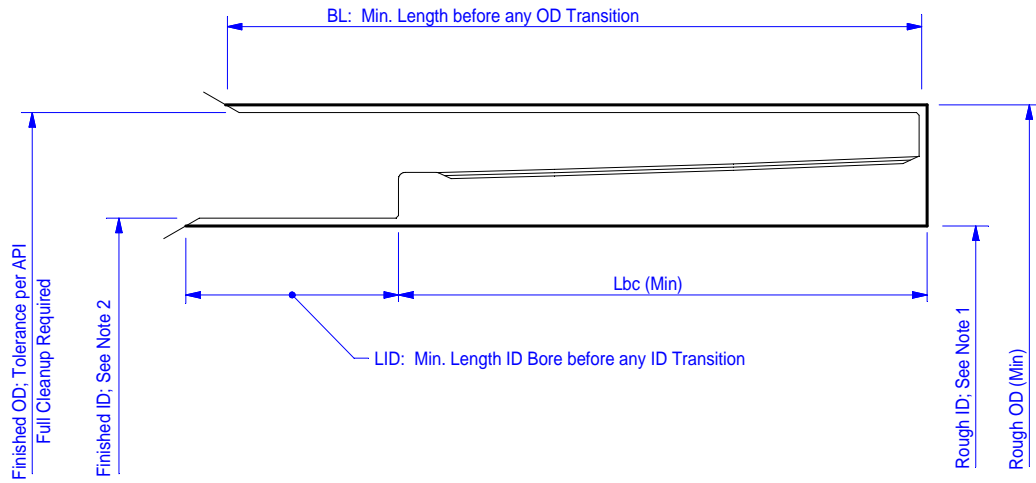
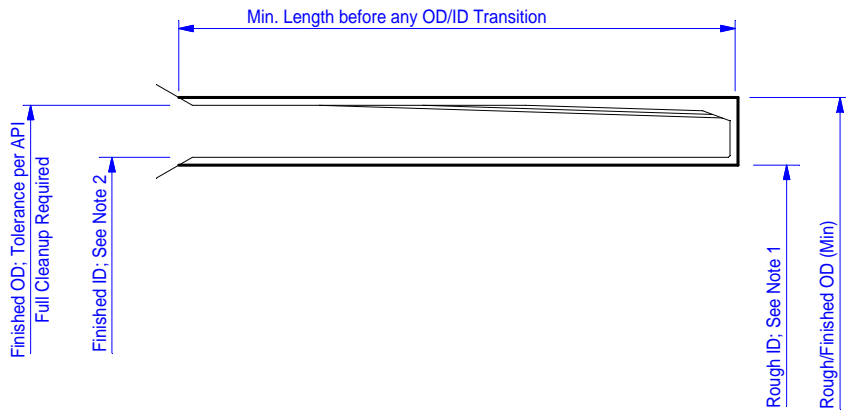


# CONFIDENTIAL

## Blanking Schematic for GB CDE & GB ACME Box



## Blanking Schematic for GB DWC & GB ACME Pins



### NOTES:

1. Rough ID - Machine to API Drift Diameter for Pipe Body +0.030-0.000.
2. Finished ID - To match corresponding Pipe ID  $\pm 0.010$ .
3. See Table GB DWC Blanking for size specific dimensions.
4. Blanking Schematics shown are applicable to GB Butt, GB 4P and GB 3P Threads.

Units: inches

### BLANKING DIMENSIONS FOR GB CD/CDE & GB ACME CONNECTIONS



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Date:	11/28/2006
Scale:	AS SHOWN
Drawing No.:	GBDWC700.0
Revision:	Rev. 0 (07/11/2017)
Filename:	GBDWC700 Rev 0

**Table: GB DWC Blank**

**GB Drilling With Casing (DWC) Connection Blanking Dimensions**

GB CD Pins			
Pipe OD (in)	Rough/Finished OD <i>Minimum</i> (in)	Min. Length before any OD/ID Transition (in)	Min. Length Recut (in)
<b>Buttress Threads</b>			
4 1/2	4.516	4.813	2.572
5	5.016	4.938	2.572
5 1/2	5.516	5.000	2.572
5 1/2 <b>EHTQ</b>	5.516	4.875	2.572
5 1/2 <b>Slim Hole</b>	5.516	5.000	2.572
6	6.016	5.188	2.572
6 5/8	6.641	5.188	2.572
7	7.016	5.375	2.572
7 5/8	7.641	5.563	2.572
7 5/8 <b>Slim Hole</b>	7.641	5.688	2.572
8 5/8	8.641	5.688	2.572
8 5/8 <b>Slim Hole</b>	8.641	5.688	2.572
8 5/8 <b>SlimHole Plus</b>	8.641	5.438	2.572
9 5/8	9.641	5.688	2.572
10 3/4	10.766	5.688	2.572
11 3/4	11.766	5.688	2.572
13 3/8	13.391	5.688	2.572
13 5/8	13.641	5.688	2.572
16	16.016	5.688	2.040
18 5/8	18.641	5.688	2.040
20	20.016	5.688	2.040
<b>4P Threads</b>			
10 3/4	10.766	5.688	2.572
11 3/4	11.766	5.688	2.572
13 3/8	13.391	5.688	2.572
<b>3P Threads</b>			
16	16.016	5.688	2.247
18 5/8	18.641	5.688	2.247
20	20.016	5.688	2.247

Finished ID per API Specifications for casing size and weight.  
shall meet API Specified ID and drift diameter.

GB CDE Box							
Pipe OD (in)	Pipe Weight (lbs)	Rough OD <i>Minimum</i> (in)	Finished OD (1) (in)	Min. Length before any OD Transition (in)	Lbc <i>Minimum</i> (in)	Min. Length ID Bore before any ID Transition (in)	Min. Length Recut (in)
<b>Buttress Threads</b>							
4 1/2	11.60 & 13.50	5.080	5.000	6.238	4.048	1.700	4.063
5	All other weight	5.330	5.250	6.238	4.048	1.700	4.063
5 1/2	All other weight	5.880	5.800	6.363	4.173	1.700	4.188
5 1/2	All other weight	6.380	6.300	6.425	4.235	1.700	4.250
5 1/2 <b>EHTQ</b>	All other weight	6.380	6.300	6.425	4.110	1.700	4.125
5 1/2 <b>Slim Hole</b>	All other weight	5.980	5.900	6.425	4.235	1.700	4.250
6	All other weight	6.955	6.875	6.613	4.423	1.700	4.438
6 5/8	All other weight	7.470	7.390	6.613	4.423	1.700	4.438
7	All other weight	7.955	7.875	6.800	4.610	1.700	4.625
7 5/8	All other weight	8.580	8.500	6.988	4.798	1.700	4.188
7 5/8 <b>Slim Hole</b>	All other weight	7.980	7.900	6.988	4.798	1.700	4.188
8 5/8	All other weight	9.705	9.625	7.250	4.985	2.000	5.000
8 5/8 <b>Slim Hole</b>	All other weight	9.080	9.000	7.250	4.985	2.000	5.000
8 5/8 <b>SlimHole Plus</b>	All other weight	9.110	9.030	7.000	4.735	2.000	4.750
9 5/8	All other weight	10.705	10.625	7.250	4.985	2.000	5.000
10 3/4	All other weight	11.830	11.750	7.250	4.985	2.000	5.000
11 3/4	All other weight	12.830	12.750	7.250	4.985	2.000	5.000
13 3/8	All other weight	14.455	14.375	7.250	4.985	2.000	5.000
13 5/8	All other weight	14.705	14.625	7.250	4.985	2.000	5.000
16	All other weight	17.080	17.000	7.250	4.985	2.000	5.000
18 5/8	All other weight	19.705	19.625	7.250	4.985	2.000	5.000
20	All other weight	21.080	21.000	7.250	4.985	2.000	5.000
<b>4P Threads</b>							
10 3/4	All other weight	11.830	11.750	7.250	4.985	2.000	5.000
11 3/4	All other weight	12.830	12.750	7.250	4.985	2.000	5.000
13 3/8	All other weight	14.455	14.375	7.250	4.985	2.000	5.000
<b>3P Threads</b>							
16	All other weight	17.080	17.000	7.250	4.985	2.000	5.000
18 5/8	All other weight	19.705	19.625	7.250	4.985	2.000	5.000
20	All other weight	21.080	21.000	7.250	4.985	2.000	5.000

Finished ID shall meet API Specified ID and drift diameter at coupling center section per API Specifications for casing size and weight.

(1) Full OD cleanup is required

**NOTE:** All accessories requiring box threads shall be cut with GB CDE Boxes; NO EXCEPTIONS. The "E" in GB CDE refers to internal shoulder. GB CD pins will mate with both GB CD and GB CDE boxes with the matching threadform i.e. Butt, 3P, etc. Keep in mind, GB CDE Boxes are weight specific, so the ID at the center (dc) section must match the mating pipe/pin ID. Also, the center section (at pipe/pin ID) should extend at minimum 1.7" to 2" (as indicated in the table) before any ID transition in the accessory.

**Table: GB ACME Blank**

**GB TCC ACME IS Connection Blanking Dimensions**

<b>GB TCC ACME / ACME IS Pins</b>			
Pipe OD (in)	Rough/Finished OD <i>Minimum</i> (in)	Min. Length before any OD/ID Transition (in)	Min. Length Recut (in)
<b>ACME Threads</b>			
2 3/8	2.391	4.188	2.008
2 7/8	2.891	4.188	2.008
3 1/2	3.516	4.188	2.008
4 1/2	4.516	4.188	2.008

Finished ID per API Specifications for casing size and weight shall meet API Specified ID and drift diameter.

<b>GB TCC ACME IS Box</b>							
Pipe OD (in)	Pipe Weight (lbs)	Rough OD <i>Minimum</i> (in)	Finished OD (1) (in)	Min. Length before any OD Transition (in)	Lbc <i>Minimum</i> (in)	Min. Length ID Bore before any ID Transition (in)	Min. Length Recut (in)
<b>ACME Threads</b>							
2 3/8	≤ 5.80	2.938	2.875	5.000	3.470	1.500	3.470
2 7/8	≤ 8.60	3.563	3.500	5.000	3.470	1.500	3.470
3 1/2	≤ 12.70	4.313	4.250	5.000	3.470	1.500	3.470
4 1/2	≤ 15.10	5.263	5.200	5.000	3.470	1.500	3.470

Finished ID shall meet API Specified ID and drift diameter at coupling center section per API Specifications for tubing size and weight.

(1) Full OD cleanup is required

**NOTE:** All accessories requiring box threads shall be cut with GB ACME IS Boxes; NO EXCEPTIONS. Keep in mind, GB ACME IS Boxes are weight specific, so the ID at the center (dc) section must match the mating pipe/pin ID. Also, the center section (at pipe/pin ID) should extend at minimum 1.500" (as indicated in the table) before any ID transition in the accessory.