

## How to Use API Ring Gage to Measure API Tubing, Casing & Line Pipe Couplings?

FYOU PMEC , One Stop Shopping for Threading and Gauging Solutions. The premier leader in providing the highest quality of API Oil Country Gauges, including API Working Gauges, API Master Gauges. But How to USE API Plug Gauges to Measure API Tubing & API Casing & API Line Pipe Couplings?

**Any question and request about the API Gauges Please contact: [edwin@szfyou.com](mailto:edwin@szfyou.com)**

API Specification 5B states that the required nominal standoff between the ring gage and the small end face of the pipe is 0, the ring gage should be flush to the small end face of the pipe. The tolerance on standoff is:

8TPI Tubing & Casing =  $\pm 1P$

10TPI Tubing =  $\pm 1 - 1/2P$

Line Pipe (All Pitches) =  $\pm 1P$

The table below lists all of the size and pitch combinations and their corresponding standoff tolerance for each thread type

Non-Upset Tubing		
Size Designation D	Threads per in. TPI	$\pm$ Standoff Tolerance (Decimal)
1.050	10	0.1500
1.315	10	0.1500
1.660	10	0.1500
1.900	10	0.1500
2-3/8	10	0.1500
2-7/8	10	0.1500
3-1/2	10	0.1500
4	8	0.1250
4-1/2	8	0.1250

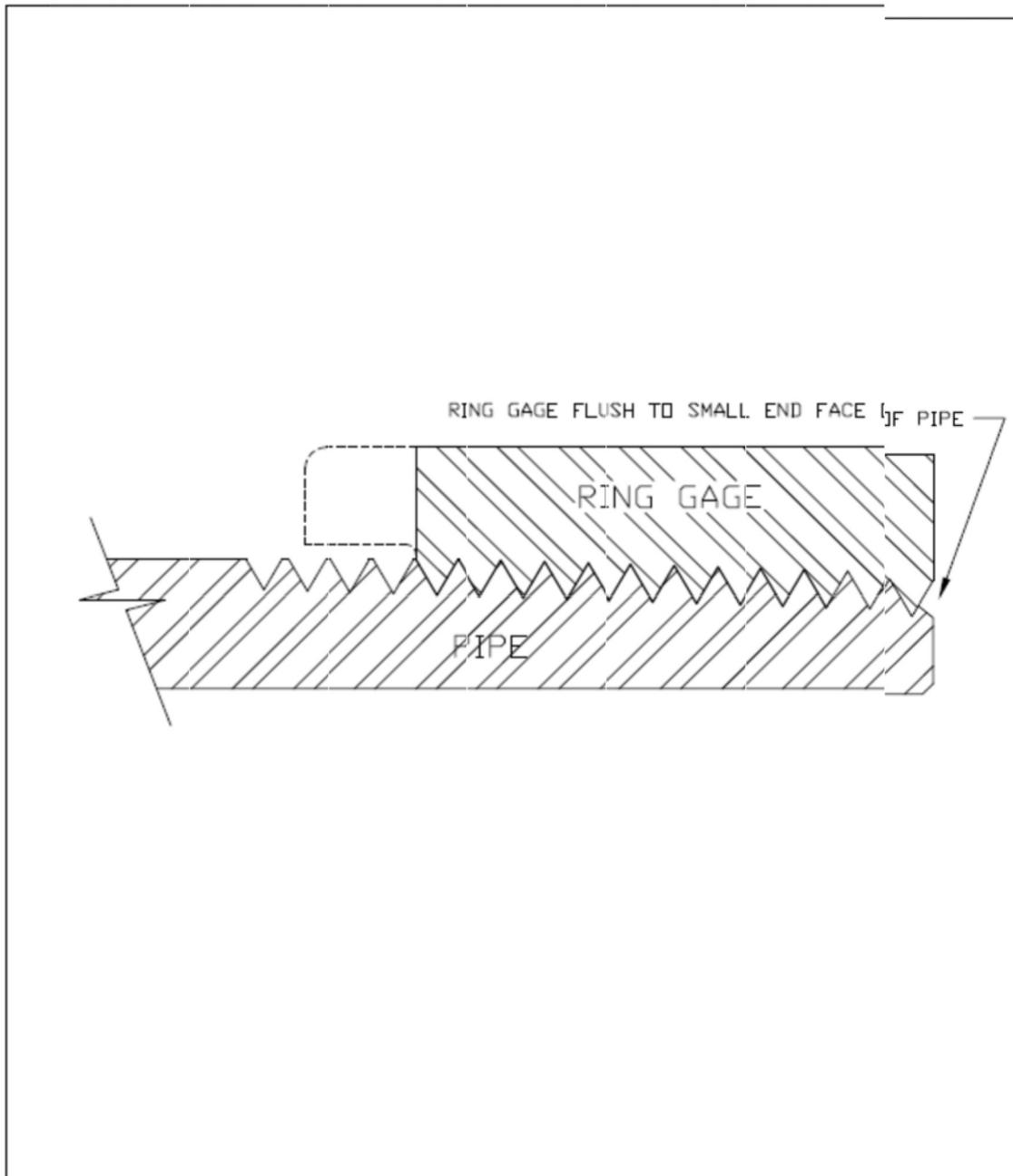
External-Upset Tubing		
Size Designation D	Threads per in. TPI	$\pm$ Standoff Tolerance (Decimal)
1.050	10	0.1500
1.315	10	0.1500
1.660	10	0.1500
1.900	10	0.1500
2-3/8	8	0.1250
2-7/8	8	0.1250
3-1/2	8	0.1250
4	8	0.1250
4-1/2	8	0.1250



<b>Casing</b>		
<b>Size Designation D</b>	<b>Threads per in. TPI</b>	<b>± Standoff Tolerance (Decimal)</b>
4-1/2	8	0.1250
5	8	0.1250
5-1/2	8	0.1250
6-5/8	8	0.1250
7	8	0.1250
7-5/8	8	0.1250
8-5/8	8	0.1250
9-5/8	8	0.1250
10-3/4	8	0.1250
11-3/4	8	0.1250
13-3/8	8	0.1250
16	8	0.1250
18-5/8	8	0.1250
20	8	0.125

<b>Line Pipe</b>		
<b>Size Designation D</b>	<b>Threads per in. TPI</b>	<b>± Standoff Tolerance (Decimal)</b>
1/8	27	0.0370
1/4	18	0.0556
3/8	18	0.0556
1/2	14	0.0714
3/4	14	0.0714
1	11.5	0.0870
1-1/4	11.5	0.0870
1-1/2	11.5	0.0870
2	11.5	0.0870
2-1/2	8	0.1250
3	8	0.1250
3-1/2	8	0.1250
4	8	0.1250
5	8	0.1250
6	8	0.1250
8	8	0.1250
10	8	0.1250
12	8	0.1250
14	8	0.1250
16	8	0.1250
18	8	0.1250
20	8	0.1250





Note: Standoff information provided is based on nominal condition and is for reference only. API 5B requires that standoff to the pipe is adjusted/compensated by using the P1 value of your working ring as measured against a certified reference master gage. The standoff tolerance is then applied to the P1 value to determine the minimum and maximum standoff allowed. When available, this P1 value should be used in order to properly adjust the gage standoff in order to maintain compliance to API 5B.