

Look to www.woodcousa.com as "The Source".

API Flange Weight Reference Chart 1

Includes API Spec 6A current, discontinued, and obsolete flanges

TRADEMARK



REG. U.S. PATENT OFFICE

[Terms of Use and Copyright © 2010 WOODCO USA](#)

WOODCO USA provides Web Site Tools for identification, estimating, and reference only. Do not use this information for manufacturing or inspection. Users of these tools should not use them as a substitute for professional engineering advice. Anyone making use of the information presented does so at his own risk and assumes any and all liability resulting from such use.

FOR FURTHER INFORMATION, OR TO LEARN MORE ABOUT WOODCO USA PRODUCTS AND SERVICES,

CONTACT:

WOODCO USA
P.O. Box 1261
Houston, Texas 77251-1261
Phone: 713-672-9491
U.S. and Canada: 1-800-496-6326
Fax: 713-672-8768
www.woodcousa.com
sales@woodcousa.com

Look to www.woodcousa.com as "The Source".

API Flange Weight Reference Chart 1

Includes API Spec 6A current, discontinued, and obsolete flanges

See page 9 of this document for important notes.

API 6A Flange Size	Weld Neck Weight Lbs.	Blind Weight Lbs.	Number of Stud Bolts per set	Weight for 1 Set of All Thread Stud Bolts with 2 nuts each Lbs.	Weight for 1 Set of Tap End Studs with 1 nut each Lbs.	Ring Gasket	
						Number	Weight Lbs.
1-5/8-10M / 2"-2900 *	29.6	28.5	8	13.3	8.2	R-85	0.88
						RX-85	1.18
1-11/16-10M *	19.5	24.7	8	7.7	4.7	BX-150	0.29
1-11/16-15M *	24.0	27.6	8	7.9	4.8	BX-150	0.29
1-25/32-10M 2-1/2" 2900 *	44.4	43.1	8	19.5	12.4	R-86	1.44
						RX-86	1.82
1-13/16-2M *	9.8	9.4	4	3.5	2.3	R-20	0.37
						RX-20	0.53
1-13/16-3M *	16.0	15.6	4	7.9	5.1	R-20	0.37
						RX-20	0.53
1-13/16-5M *	16.3	15.6	4	7.9	5.1	R-20	0.37
						RX-20	0.53
1-13/16-10M	20.8	24.6	8	7.7	4.7	BX-151	0.33
1-13/16-15M	27.5	31.5	8	11.6	7.1	BX-151	0.33
1-13/16-20M	62.3	66.2	8	18.4	11.1	BX-151	0.33
1-13/16-30M *	110.4	114.1	8	35.0	21.4	BX-151	0.33
2" 960 *	11.7	11.7	8	4.7	3.0	R-23	0.76
						RX-23	1.18
2-1/16-2M	12.0	11.7	8	4.7	3.0	R-23	0.76
						RX-23	1.18
2-1/16-3M	28.9	27.2	8	12.2	7.7	R-24	0.87
						RX-24	1.36
2-1/16-5M	29.6	27.2	8	12.2	7.7	R-24	0.87
						RX-24	1.36

Look to www.woodcousa.com as "The Source".

API Flange Weight Reference Chart 1

Includes API Spec 6A current, discontinued, and obsolete flanges

See page 9 of this document for important notes.

API 6A Flange Size	Weld Neck Weight Lbs.	Blind Weight Lbs.	Number of Stud Bolts per set	Weight for 1 Set of All Thread Stud Bolts with 2 nuts each Lbs.	Weight for 1 Set of Tap End Studs with 1 nut each Lbs.	Ring Gasket	
						Number	Weight Lbs.
2-1/16-10M / 3" 2900 *	62.3	61.2	8	27.8	17.0	R-87	1.59
						RX-87	2.01
2-1/16-10M	25.3	30.4	8	7.7	4.8	BX-152	0.41
2-1/16-15M	36.1	41.7	8	12.2	7.4	BX-152	0.41
2-1/16-20M	87.2	92.8	8	25.9	15.8	BX-152	0.41
2-1/16-30M *	126.8	131.9	8	36.8	22.3	BX-152	0.41
2-1/2" 960 *	16.5	16.9	8	7.7	4.9	R-26	0.93
						RX-26	1.44
2-9/16-2M	16.9	16.9	8	7.7	4.9	R-26	0.93
						RX-26	1.44
2-9/16-3M	39.4	37.3	8	17.3	11.1	R-27	1.00
						RX-27	1.53
2-9/16-5M	40.1	37.3	8	17.3	11.1	R-27	1.00
						RX-27	1.53
2-9/16-10M / 3-1/2" 2900 *	88.8	89.9	8	37.4	23.2	R-89	2.49
						RX-89	3.03
2-9/16-10M	39.0	47.5	8	12.2	7.4	BX-153	0.62
2-9/16-15M	52.0	60.7	8	17.6	10.7	BX-153	0.62
2-9/16-20M	122.7	132.1	8	35.6	21.4	BX-153	0.62
2-9/16-30M *	175.8	185.4	12	57.9	34.4	BX-153	0.62
3" 960 *	21.3	24.2	8	7.9	5.0	R-31	1.14
						RX-31	1.77

Look to www.woodcousa.com as "The Source".

API Flange Weight Reference Chart 1

Includes API Spec 6A current, discontinued, and obsolete flanges

See page 9 of this document for important notes.

API 6A Flange Size	Weld Neck Weight Lbs.	Blind Weight Lbs.	Number of Stud Bolts per set	Weight for 1 Set of All Thread Stud Bolts with 2 nuts each Lbs.	Weight for 1 Set of Tap End Studs with 1 nut each Lbs.	Ring Gasket	
						Number	Weight Lbs.
3-1/8-2M	21.8	22.7	8	7.9	5.0	R-31	1.14
						RX-31	1.77
3-1/8-3M	35.8	34.9	8	12.2	7.7	R-31	1.14
						RX-31	1.77
3-1/8-5M	52.4	49.6	8	24.4	15.6	R-35	1.25
						RX-35	1.95
3-1/8-10M 4" 2900 *	112.9	113.9	8	49.0	30.4	R-88	2.70
						RX-88	3.26
3-1/16-10M	60.1	73.2	8	17.6	10.9	BX-154	0.85
3-1/16-15M	75.7	89.1	8	24.9	15.4	BX-154	0.85
3-1/16-20M	157.7	172.5	8	46.7	28.2	BX-154	0.85
3-1/16-30M *	256.1	270.5	12	76.8	45.6	BX-154	0.85
4" 960 *	33.1	36.4	8	11.9	7.5	R-37	1.37
						RX-37	2.13
4-1/16-2M	44.4	45.7	8	12.2	7.7	R-37	1.37
						RX-37	2.13
4-1/16-3M	57.9	57.6	8	23.9	15.4	R-37	1.37
						RX-37	2.13
4-1/16-5M	78.4	76.2	8	33.2	21.1	R-39	1.49
						RX-39	2.31
4-1/16-10M / 5" 2900 *	167.9	169.1	8	80.9	50.5	R-90	4.51
						RX-90	6.84

Look to www.woodcousa.com as "The Source".

API Flange Weight Reference Chart 1

Includes API Spec 6A current, discontinued, and obsolete flanges

See page 9 of this document for important notes.

API 6A Flange Size	Weld Neck Weight Lbs.	Blind Weight Lbs.	Number of Stud Bolts per set	Weight for 1 Set of All Thread Stud Bolts with 2 nuts each Lbs.	Weight for 1 Set of Tap End Studs with 1 nut each Lbs.	Ring Gasket	
						Number	Weight Lbs.
4-1/16-10M	99.1	125.1	8	25.9	15.8	BX-155	1.44
4-1/16-15M	142.6	169.8	8	45.2	27.4	BX-155	1.44
4-1/16-20M	298.5	328.5	8	94.7	57.7	BX-155	1.44
4-1/16-30M *	500.6	529.3	12	154.5	93.0	BX-155	1.44
5" 960 *	42.6	47.9	8	12.2	7.7	R-41	1.66
						RX-41	2.58
5-1/8-2M	75.1	76.5	8	17.6	11.3	R-41	1.66
						RX-41	2.58
5-1/8-3M	92.1	93.5	8	32.5	20.8	R-41	1.66
						RX-41	2.58
5-1/8-5M	145.7	143.8	8	58.4	36.8	R-44	1.78
						RX-44	2.76
5-1/8-10M	140.3	134.5	12	41.0	24.5	BX-169	1.74
5-1/8-15M	231.1	220.1	12	93.0	56.5	BX-169	1.74
6" 960 *	55.2	65.2	12	18.7	11.7	R-45	1.94
						RX-45	3.01
7-1/16-2M	88.2	92.0	12	27.0	17.2	R-45	1.94
						RX-45	3.01
7-1/16-3M	119.0	119.5	12	38.8	24.1	R-45	1.94
						RX-45	3.01
7-1/16-5M	176.3	176.6	12	74.5	45.6	R-46	2.38
						RX-46	3.67
7-1/16-10M / 10" 2900 *	480.1	480.0	12	235.9	144.9	R-91	15.64
						RX-91	17.16

Look to www.woodcousa.com as "The Source".

API Flange Weight Reference Chart 1

Includes API Spec 6A current, discontinued, and obsolete flanges

See page 9 of this document for important notes.

API 6A Flange Size	Weld Neck Weight Lbs.	Blind Weight Lbs.	Number of Stud Bolts per set	Weight for 1 Set of All Thread Stud Bolts with 2 nuts each Lbs.	Weight for 1 Set of Tap End Studs with 1 nut each Lbs.	Ring Gasket	
						Number	Weight Lbs.
7-1/16-10M	319.8	315.2	12	94.3	57.2	BX-156	4.04
7-1/16-15M	405.0	390.3	16	134.7	80.7	BX-156	4.04
7-1/16-20M	949.1	893.9	16	327.5	193.2	BX-156	4.04
7-1/16-30M *	1779.4	1888.1	16	611.4	362.8	BX-156	4.04
8" 960 *	85.4	106.7	12	27.0	17.2	R-49	2.47
						RX-49	3.85
9-2M	130.2	146.8	12	38.8	24.1	R-49	2.47
						RX-49	3.85
9-3M	204.5	204.8	12	66.8	42.3	R-49	2.47
						RX-49	3.85
9-5M	306.9	299.8	12	118.1	73.3	R-50	4.42
						RX-50	6.35
9-10M	488.1	498.5	16	138.3	81.6	BX-157	6.40
9-15M	842.1	807.4	16	259.7	154.1	BX-157	6.40
9-20M	1738.0	1651.8	16	632.1	375.8	BX-157	6.40
10" 960 *	117.8	158.9	16	50.8	32.1	R-53	2.97
						RX-53	4.63
11-2M	248.2	240.1	16	69.9	44.0	R-53	2.97
						RX-53	4.63
11-3M	302.0	300.8	16	92.0	57.9	R-53	2.97
						RX-53	4.63

Look to www.woodcousa.com as "The Source".

API Flange Weight Reference Chart 1

Includes API Spec 6A current, discontinued, and obsolete flanges

See page 9 of this document for important notes.

API 6A Flange Size	Weld Neck Weight Lbs.	Blind Weight Lbs.	Number of Stud Bolts per set	Weight for 1 Set of All Thread Stud Bolts with 2 nuts each Lbs.	Weight for 1 Set of Tap End Studs with 1 nut each Lbs.	Ring Gasket	
						Number	Weight Lbs.
11-5M	533.5	512.3	12	179.8	111.3	R-54	5.30
						RX-54	7.63
11-10M	772.5	809.3	16	215.9	128.9	BX-158	9.36
11-15M	1949.9	1619.4	20	438.0	255.7	BX-158	9.36
11-20M	2235.7	2198.3	16	836.6	497.3	BX-158	9.36
12" 960 *	169.2	231.5	16	67.5	42.8	R-57	3.49
						RX-57	5.44
13-5/8-2M	***	302.3	20	88.9	55.8	R-57	3.49
						RX-57	5.44
13-5/8-3M	***	419.1	20	120.5	75.1	R-57	3.49
						RX-57	5.44
13-5/8-5M / 14" 1500 *	***	1033.4	16	430.3	265.2	R-63	16.12
						RX-63	26.47
13-5/8-5M	616.7	743.5	16	159.6	96.7	BX-160	6.64
13-5/8-10M	1236.9	1329.3	20	349.6	205.1	BX-159	14.08
13-5/8-15M	2008.8	2098.0	20	611.0	360.2	BX-159	14.08
13-5/8-20M	5075.1	5008.3	20	1504.7	875.2	BX-159	14.08
16" 960 *	294.6	393.4	20	111.3	70.5	R-65	4.31
						RX-65	6.71
16-3/4-2M	***	515.0	20	148.3	93.1	R-65	4.31
						RX-65	6.71

Look to www.woodcousa.com as "The Source".

API Flange Weight Reference Chart 1

Includes API Spec 6A current, discontinued, and obsolete flanges

See page 9 of this document for important notes.

API 6A Flange Size	Weld Neck Weight Lbs.	Blind Weight Lbs.	Number of Stud Bolts per set	Weight for 1 Set of All Thread Stud Bolts with 2 nuts each Lbs.	Weight for 1 Set of Tap End Studs with 1 nut each Lbs.	Ring Gasket	
						Number	Weight Lbs.
16-3/4-3M	***	636.8	20	194.2	120.9	R-66	7.69
						RX-66	10.48
16-3/4-5M	810.2	1085.8	16	245.5	147.0	BX-162	4.96
16-3/4-10M	1464.5	1813.1	24	419.6	246.2	BX-162	4.96
17-3/4-2M *	***	649.2	20	155.0	97.6	R-69	4.89
						RX-69	7.62
17-3/4-3M *	***	904.0	20	296.1	183.7	R-70	11.79
						RX-70	20.16
18-3/4-5M	1616.6	1871.9	20	409.4	243.5	BX-163	14.70
18-3/4-10M	2999.2	3256.1	24	770.7	451.1	BX-164	21.35
18-3/4-15M	4357.6	4628.2	20	1391.3	823.2	BX-164	21.35
20" 960 *	440.0	623.5	24	175.3	110.4	R-73	6.59
						RX-73	11.65
21-1/4-2M	***	842.5	24	233.1	145.1	R-73	6.59
						RX-73	11.65
20-3/4-3M	***	1131.0	20	364.5	225.1	R-74	12.91
						RX-74	22.05
21-1/4-5M	2086.4	2463.2	24	515.8	302.0	BX-165	18.74
21-1/4-10M	3877.9	4304.1	24	1041.6	606.5	BX-166	27.17
26-3/4-2M	1435.1	1931.0	20	257.5	153.5	BX-167	17.85
26-3/4-3M	2088.0	2566.0	24	486.4	287.3	BX-168	22.23

Look to www.woodcousa.com as "The Source".

API Flange Weight Reference Chart 1

Includes API Spec 6A current, discontinued, and obsolete flanges

See important notes below.

API 6A Flange Size	Weld Neck Weight Lbs.	Blind Weight Lbs.	Number of Stud Bolts per set	Weight for 1 Set of All Thread Stud Bolts with 2 nuts each Lbs.	Weight for 1 Set of Tap End Studs with 1 nut each Lbs.	Ring Gasket	
						Number	Weight Lbs.
30" 300# MSS **	1055.9	1694.6	28	347.6	214.8	R-95	18.70
30" 600# MSS **	1426.2	2516.7	28	527.5	323.7	R-95	18.70
30" 900# MSS **	2323.4	3816.8	20	1155.4	719.3	R-102	51.49
30-2M	1691.4	2454.2	32	348.8	208.2	BX-303	27.57
30-3M	2457.8	3239.9	32	559.4	328.1	BX-303	27.57

* API discontinued or obsolete flange.

** MSS flanges used primarily on Diverter BOP's of 500 psi and 1,000 psi working pressure.

***API has not specified a weld neck for 6B flanges larger than 11" 5M and WOODCO USA has no entry on this table for these flanges.

API has specified weld necks for many 6BX flanges, and not done so for many others, but API has provided the basis for determining the dimensions of a 6BX integral flange that the manufacturer may attach to a body by welding. WOODCO USA has used API specified dimensions to calculate all the flange weights shown on this table. All weights rounded to the nearest 1/10 lb., except ring gaskets, shown in pounds with decimals to 2 places.

Various tolerances contribute to significant differences in weights. Most API 6A manufacturers that only make flanges, make 6B weld neck flanges with raised faces, while most API 6A wellhead manufacturers make all of their API 6B flanges, weld neck or otherwise, with full faces. All 6BX flanges must have a raised face, but API specifies a minimum raised face of 1/8" height, with a maximum height equal to the ring groove depth. More recently API 6A has increased the tolerance on bolt holes, adding further variation to weight. The calculated weights for flanges shown in this table consider the flanges to have the maximum weight based on the tolerance limits specified by API. Consider all flange weights shown as approximate.

Only the weight of 3 ring gasket profiles, R (Oval), RX and BX appear on this table, consider weights for R (Octagonal), SRX and SBX as virtually the same.

Terms of Use

Welcome to www.woodcousa.com, the official website of WOODCO USA ("WOODCO"). www.woodcousa.com provides services to you subject to the following conditions. If you visit www.woodcousa.com, you accept these conditions. Please read them carefully. In addition, when you use any current or future woodcousa.com service or download WOODCO USA software, you also agree to comply with any of these conditions that may apply to such service or software use.

1. WOODCO USA may change, add, or remove portions of its website at any time. WOODCO USA also may impose limits on certain features and services or restrict access to all or any part of its website without notice or liability.
2. WOODCO USA intends its website (the "Content") for your personal use only.
3. All materials published on the WOODCO USA website have copyright protection pursuant to U.S. and international copyright laws. You may not modify, publish, transmit, participate in the transfer or sale of, reproduce (except as provided in Paragraph 4 below), create new works from, distribute, perform, display, or in any way exploit any of the Content in whole or in part. You shall abide by all additional copyright notices, information, and other restrictions associated with any of the Content.
4. You may download or copy the Content and other downloadable items forming parts of the Content for personal use only, provided that you maintain all copyright and other notices contained therein. You may not copy or store any Content for other than personal use without prior written permission from an officer of WOODCO USA.
5. WOODCO USA does not assume liability for any errors or omissions in the Content, or in the transmission or delivery of all or any part thereof, or for any damages arising there from. You acknowledge sole responsibility (sole risk) for any reliance you may have in the Content or actions you may take relying upon any of the Content. WOODCO USA makes every effort to assure the accuracy of the Content, but, WOODCO USA MAKES THE CONTENT AVAILABLE TO YOU ON AN "AS IT APPEARS" BASIS, WITHOUT WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OF TITLE OR IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. YOU HEREBY ACKNOWLEDGE THAT YOU USE THE CONTENT AT YOUR SOLE RISK.
6. You shall have no rights to any of the proprietary rights associated with any of the Content.
7. WOODCO USA may, in its sole discretion, terminate or suspend access to all or part of the Content for any reason, including without limitation, breach or assignment of this Agreement.
8. This Agreement originates in Houston, Texas and any interpretation and/or enforcement shall comply with Texas law. Any action to enforce this agreement shall occur in, and only in, the federal or state courts located in Harris County, Texas.
9. Privacy - Please review our Privacy Policy, which also governs your visit to woodcousa.com, to understand our practices.
10. Please direct all questions to: **sitemaster@woodcousa.com**

Copyright Notice 1999 - 2010, WOODCO USA.

WOODCO USA will enforce all rights under copyright law, regarding all photographs, graphics, written materials or other content appearing on this website, the legally protected property of WOODCO USA. WOODCO USA prohibits reproduction or re-use of any kind, other than that described in "Terms of Use" above, without written permission from an officer of WOODCO USA. Submit all requests for re-use of copyrighted materials in writing to: **sitemaster@woodcousa.com**