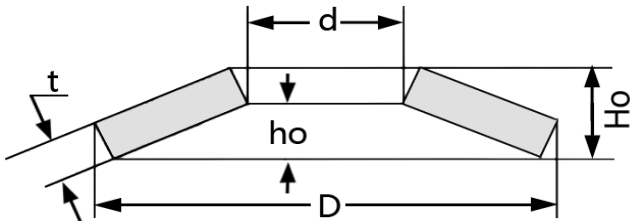


## Flange Bolting Washers

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\*Inconel X-750 (-200...+600°C)

Item no.	Bolt Size	D	d	t	ho	Ho	Load (-100%)	Torque
	inch	inch	inch	inch	inch	inch	lbs	ft-lbs
FT-750-001	1/2''	1.012	0.530	0.131	0.010	0.141	4406	30
FT-750-002		1.012	0.530	0.157	0.009	0.166	6386	45
FT-750-003		1.012	0.530	0.180	0.008	0.188	8573	60
FT-750-004	5/8''	1.147	0.640	0.151	0.013	0.164	6610	60
FT-750-005		1.147	0.640	0.179	0.011	0.190	10094	90
FT-750-006		1.147	0.640	0.186	0.012	0.198	12354	120
FT-750-007	3/4''	1.368	0.763	0.189	0.013	0.202	9868	100
FT-750-008		1.368	0.763	0.225	0.013	0.238	16649	150
FT-750-009		1.368	0.763	0.219	0.015	0.234	17715	200
FT-750-010	7/8''	1.588	0.890	0.219	0.015	0.234	13199	160
FT-750-011		1.588	0.890	0.264	0.013	0.277	20040	240
FT-750-012		1.588	0.890	0.281	0.016	0.297	29742	320
FT-750-013	1''	1.811	1.020	0.259	0.016	0.275	17982	245
FT-750-014		1.811	1.020	0.306	0.015	0.321	28039	368
FT-750-015		1.811	1.020	0.315	0.018	0.333	36393	490
FT-750-016	1-1/8''	2.024	1.144	0.295	0.020	0.315	26672	355
FT-750-017		2.024	1.144	0.344	0.017	0.361	35948	533
FT-750-018		2.024	1.144	0.369	0.018	0.387	46979	710
FT-750-019	1-1/4''	2.308	1.269	0.323	0.024	0.347	31579	500
FT-750-020		2.308	1.269	0.396	0.020	0.416	48495	750
FT-750-021		2.308	1.269	0.403	0.025	0.428	64208	1000
FT-750-022	1-3/8''	2.467	1.400	0.375	0.020	0.395	37007	680
FT-750-023		2.467	1.400	0.463	0.016	0.479	55721	1020
FT-750-024		2.467	1.400	0.532	0.014	0.546	74005	1360
FT-750-025	1-1/2''	2.680	1.525	0.416	0.021	0.437	45057	800
FT-750-026		2.680	1.525	0.510	0.017	0.527	67208	1200
FT-750-027		2.680	1.525	0.585	0.015	0.600	89545	1600
FT-750-028	1-5/8''	2.950	1.650	0.451	0.024	0.475	53428	1100
FT-750-029		2.950	1.650	0.559	0.019	0.578	80434	1650
FT-750-030		2.950	1.650	0.638	0.017	0.655	106995	2200

Item no.	Bolt Size inch	D inch	d inch	t inch	ho inch	Ho inch	Load (-100%) lbs	Torque ft-lbs
FT-750-031		3.170	1.775	0.492	0.025	0.517	62548	1500
FT-750-032	1-3/4''	3.170	1.775	0.607	0.020	0.627	93967	2250
FT-750-033		3.170	1.775	0.692	0.018	0.710	125305	3000
FT-750-034		3.390	1.900	0.527	0.027	0.554	72651	2000
FT-750-035	1-7/8''	3.390	1.900	0.645	0.022	0.667	108530	3000
FT-750-036		3.390	1.900	0.746	0.019	0.765	145016	4000
FT-750-037		3.598	2.025	0.566	0.028	0.594	83151	2200
FT-750-038	2''	3.598	2.025	0.692	0.023	0.715	124826	3300
FT-750-039		3.598	2.025	0.798	0.020	0.818	166455	4400
FT-750-040		4.040	2.280	0.642	0.031	0.673	106808	3180
FT-750-041	2-1/4''	4.040	2.280	0.790	0.025	0.815	160494	4770
FT-750-042		4.040	2.280	0.907	0.022	0.929	213739	6360
FT-750-043		4.490	2.530	0.714	0.034	0.748	133555	4400
FT-750-044	1-1/2''	4.490	2.530	0.879	0.028	0.907	200193	6600
FT-750-045		4.490	2.530	1.018	0.024	1.042	266550	8800
FT-750-046		4.920	2.780	0.795	0.037	0.832	163391	5920
FT-750-047	2-3/4''	4.920	2.780	0.975	0.030	1.005	244377	8880
FT-750-048		4.920	2.780	1.126	0.026	1.152	326222	11840
FT-750-049		5.358	3.030	0.863	0.041	0.904	195424	7720
FT-750-050	3''	5.358	3.030	1.062	0.033	1.095	293123	11580
FT-750-051		5.358	3.030	1.221	0.029	1.250	391478	15440
FT-750-052	3-1/4''	5.400	3.290	1.330	0.025	1.355	462152	-
FT-750-053	3-1/2''	6.130	3.540	1.433	0.041	1.474	537758	-
FT-750-054	3-3/4''	6.665	3.790	1.544	0.035	1.579	620409	-
FT-750-055	4''	7.130	4.050	2.051	0.030	2.081	1088152	-

\*30 denotes 30,000 psi bolt stress

\*45 denotes 45,000 psi bolt stress

\*60 denotes 60,000 psi bolt stress

\* Torque values for sizes 1-1/8" and larger are based on the 8-pitch thread series for flanged piping

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Doc no. FT1022V15-6