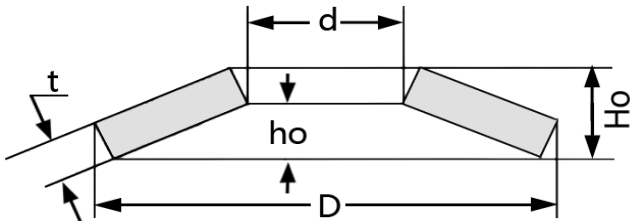


Flange Bolting Washers

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*H13 Tool Steel (-50***+600°C)

Item no.	Bolt Size	D	d	t	ho	Ho	Load (-100%)	Torque
	inch							
FT-H13-001	1/2''	1.010	0.529	0.116	0.015	0.131	4488	30
FT-H13-002		1.010	0.529	0.145	0.013	0.158	7596	45
FT-H13-003		1.010	0.529	0.142	0.014	0.156	7683	60
FT-H13-004	5/8''	1.146	0.642	0.145	0.013	0.158	6208	60
FT-H13-005		1.146	0.642	0.175	0.012	0.187	10073	90
FT-H13-006		1.146	0.642	0.185	0.013	0.198	12892	120
FT-H13-007	3/4''	1.368	0.760	0.175	0.016	0.191	9360	100
FT-H13-008		1.368	0.760	0.215	0.014	0.229	15188	150
FT-H13-009		1.368	0.760	0.222	0.014	0.236	16721	200
FT-H13-010	7/8''	1.587	0.893	0.202	0.021	0.223	14190	160
FT-H13-011		1.587	0.893	0.245	0.018	0.263	21701	240
FT-H13-012		1.587	0.893	0.282	0.015	0.297	27578	320
FT-H13-013	1''	1.807	1.023	0.231	0.024	0.255	18805	245
FT-H13-014		1.807	1.023	0.280	0.020	0.300	27909	368
FT-H13-015		1.807	1.023	0.315	0.018	0.333	35763	490
FT-H13-016	1-1/8''	2.022	1.148	0.265	0.023	0.288	21784	355
FT-H13-017		2.022	1.148	0.320	0.022	0.342	36690	533
FT-H13-018		2.022	1.148	0.368	0.018	0.386	45655	710
FT-H13-019	1-1/4''	2.307	1.274	0.300	0.030	0.330	30940	500
FT-H13-020		2.307	1.274	0.366	0.024	0.390	44945	750
FT-H13-021		2.307	1.274	0.406	0.023	0.429	58794	1000
FT-H13-022	1-3/8''	2.467	1.400	0.333	0.027	0.360	36845	680
FT-H13-023		2.467	1.400	0.400	0.026	0.426	56869	1020
FT-H13-024		2.467	1.400	0.446	0.024	0.470	72767	1360
FT-H13-025	1-1/2''	2.680	1.525	0.363	0.032	0.395	44432	800
FT-H13-026		2.680	1.525	0.440	0.038	0.478	69238	1200
FT-H13-027		2.680	1.525	0.505	0.024	0.529	89725	1600
FT-H13-028	1-5/8''	2.950	1.650	0.396	0.035	0.431	51307	1100
FT-H13-029		2.950	1.650	0.484	0.031	0.515	82969	1650
FT-H13-030		2.950	1.650	0.543	0.029	0.572	109601	2200

Item no.	Bolt Size inch	D inch	d inch	t inch	ho inch	Ho inch	Load (-100%) lbs	Torque ft-lbs
FT-H13-031		3.170	1.775	0.431	0.039	0.470	63891	1500
FT-H13-032	1-3/4''	3.170	1.775	0.521	0.033	0.554	95493	2250
FT-H13-033		3.170	1.775	0.591	0.029	0.620	122491	3000
FT-H13-034		3.390	1.909	0.465	0.041	0.506	73882	2000
FT-H13-035	1-7/8''	3.390	1.902	0.563	0.034	0.597	108743	3000
FT-H13-036		3.390	1.902	0.616	0.031	0.647	129868	4000
FT-H13-037		3.598	2.025	0.542	0.035	0.577	88898	2200
FT-H13-038	2''	3.598	2.025	0.608	0.032	0.640	114732	3300
FT-H13-039		3.598	2.025	0.635	0.031	0.666	126621	4400
FT-H13-040		4.038	2.281	0.559	0.047	0.606	104308	3180
FT-H13-041	2-1/4''	4.038	2.290	0.687	0.041	0.728	168903	4770
FT-H13-042		4.038	2.290	0.715	0.035	0.750	162544	6360
FT-H13-043		4.480	2.530	0.635	0.050	0.685	132115	4400
FT-H13-044	1-1/2''	4.480	2.530	0.762	0.044	0.806	200899	6600
FT-H13-045		4.480	2.530	0.782	0.043	0.825	212202	8800
FT-H13-046		4.918	2.778	0.693	0.055	0.748	156780	5920
FT-H13-047	2-3/4''	4.918	2.778	0.843	0.047	0.890	241161	8880
FT-H13-048		4.918	2.778	0.869	0.044	0.913	247308	11840
FT-H13-049		5.358	3.028	0.760	0.062	0.822	196477	7720
FT-H13-050	3''	5.358	3.028	0.928	0.052	0.980	300004	11580
FT-H13-051		5.358	3.028	0.974	0.045	1.019	300171	15440
FT-H13-052	3-1/4''	5.397	3.293	0.970	0.044	1.014	308191	-
FT-H13-053	3-1/2''	6.130	3.525	1.175	0.046	1.221	417985	-
FT-H13-054	3-3/4''	6.665	3.818	1.215	0.052	1.267	440379	-
FT-H13-055	4''	7.130	4.050	1.350	0.059	1.409	594417	-

*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 threadseries for flanged piping

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