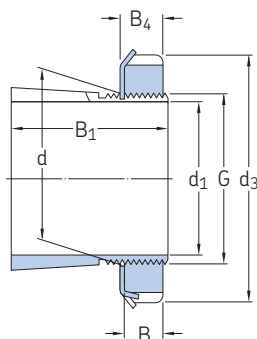
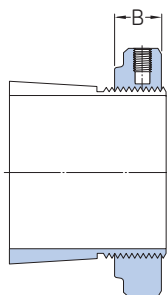


23.1 Adapter sleeves for metric shafts

d_1 17 – 180 mm



H



H..E

Principal dimensions

d_1 d d_3 B_1 B B_4 B_5 G G_2 G_3 A

mm

Mass

kg

Designations

Adapter sleeve assembly

Included products lock nut

locking device

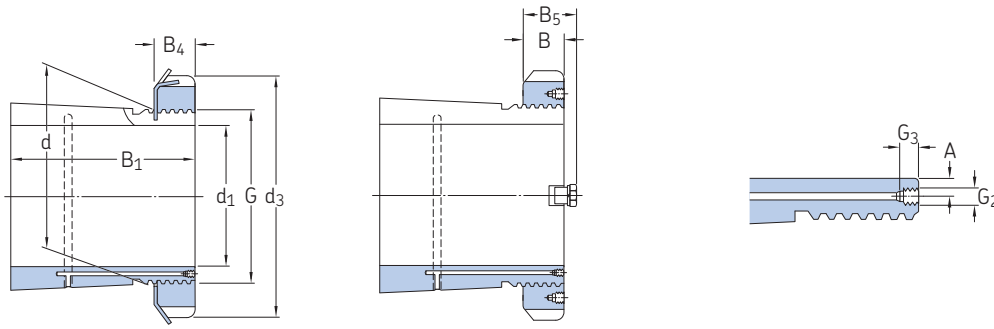
Associated hydraulic nut

d_1	d	d_3	B_1	B	B_4	B_5	G	G_2	G_3	A	Mass	Designations	Included products	locking device	Associated hydraulic nut
											kg	–			
17	20	32	24	6	7	–	M 20x1	–	–	–	0,036	► H 204	KM 4	MB 4	–
	20	32	28	6	7	–	M 20x1	–	–	–	0,04	► H 304	KM 4	MB 4	–
	20	38	28	10,5	–	–	M 20x1	–	–	–	0,047	► H 304 E	KMFE 4	–	–
20	25	38	26	7	8	–	M 25x1,5	–	–	–	0,064	► H 205	KM 5	MB 5	–
	25	38	29	7	8	–	M 25x1,5	–	–	–	0,071	► H 305	KM 5	MB 5	–
	25	38	29	10,5	–	–	M 25x1,5	–	–	–	0,076	► H 305 E	KMFE 5	–	–
25	30	45	27	7	8	–	M 30x1,5	–	–	–	0,086	► H 206	KM 6	MB 6	–
	30	45	31	7	8	–	M 30x1,5	–	–	–	0,095	► H 306	KM 6	MB 6	–
	30	45	31	10,5	–	–	M 30x1,5	–	–	–	0,11	► H 306 E	KMFE 6	–	–
30	35	52	29	8	9	–	M 35x1,5	–	–	–	0,12	► H 207	KM 7	MB 7	–
	35	52	35	8	9	–	M 35x1,5	–	–	–	0,14	► H 307	KM 7	MB 7	–
	35	52	35	11,5	–	–	M 35x1,5	–	–	–	0,15	► H 307 E	KMFE 7	–	–
35	40	58	31	9	10	–	M 40x1,5	–	–	–	0,16	► H 208	KM 8	MB 8	–
	40	58	36	9	10	–	M 40x1,5	–	–	–	0,17	► H 308	KM 8	MB 8	–
	40	58	36	13	–	–	M 40x1,5	–	–	–	0,19	► H 308 E	KMFE 8	–	–
40	45	65	33	10	11	–	M 45x1,5	–	–	–	0,21	► H 209	KM 9	MB 9	–
	45	65	39	10	11	–	M 45x1,5	–	–	–	0,23	► H 309	KM 9	MB 9	–
	45	65	39	13	–	–	M 45x1,5	–	–	–	0,24	► H 309 E	KMFE 9	–	–
45	50	70	35	11	12	–	M 50x1,5	–	–	–	0,24	► H 210	KM 10	MB 10	HMV 10E
	50	70	42	11	12	–	M 50x1,5	–	–	–	0,27	► H 310	KM 10	MB 10	HMV 10 E
	50	70	42	14	–	–	M 50x1,5	–	–	–	0,3	► H 310 E	KMFE 10	–	HMV 10 E
50	55	75	37	11	12,5	–	M 55x2	–	–	–	0,28	► H 211	KM 11	MB 11	HMV 11E
	55	75	45	11	12,5	–	M 55x2	–	–	–	0,32	► H 311	KM 11	MB 11	HMV 11 E
	55	75	45	14	–	–	M 55x2	–	–	–	0,34	► H 311 E	KMFE 11	–	HMV 11 E
55	60	80	38	11	13	–	M 60x2	–	–	–	0,31	► H 212	KM 12	MB 12	HMV 12E
	60	80	47	11	13	–	M 60x2	–	–	–	0,36	► H 312	KM 12	MB 12	HMV 12 E
	60	80	47	14	–	–	M 60x2	–	–	–	0,4	► H 312 E	KMFE 12	–	HMV 12 E
60	65	85	40	12	13,5	–	M 65x2	–	–	–	0,36	► H 213	KM 13	MB 13	HMV 13E
	65	85	50	12	13,5	–	M 65x2	–	–	–	0,42	► H 313	KM 13	MB 13	HMV 13 E
	65	85	50	15	–	–	M 65x2	–	–	–	0,43	► H 313 E	KMFE 13	–	HMV 13 E
65	65	85	65	15	–	–	M 65x2	–	–	–	0,53	► H 2313 E	KMFE 13	–	HMV 13 E
	70	92	52	12	13,5	–	M 70x2	–	–	–	0,67	► H 314	KM 14	MB 14	HMV 14 E
	70	92	52	15	–	–	M 70x2	–	–	–	0,67	► H 314 E	KMFE 14	–	HMV 14 E
65	75	98	43	13	14,5	–	M 75x2	–	–	–	0,66	► H 215	KM 15	MB 15	HMV 15E
	75	98	55	13	14,5	–	M 75x2	–	–	–	0,78	► H 315	KM 15	MB 15	HMV 15 E
	75	98	55	16	–	–	M 75x2	–	–	–	0,82	► H 315 E	KMFE 15	–	HMV 15 E

Principal dimensions											Mass	Designations	Included products		Associated
d ₁	d	d ₃	B ₁	B	B ₄	B ₅	G	G ₂	G ₃	A		Adapter sleeve assembly	lock nut	locking device	hydraulic nut
mm											kg	–			
70	80	105	46	15	17	–	M 80x2	–	–	–	0,81	► H 216	KM 16	MB 16	HMV 16E
	80	105	59	15	17	–	M 80x2	–	–	–	0,95	► H 316	KM 16	MB 16	HMV 16 E
	80	105	59	18	–	–	M 80x2	–	–	–	1	► H 316 E	KMFE 16	–	HMV 16 E
75	85	110	50	16	18	–	M 85x2	–	–	–	0,94	► H 217	KM 17	MB 17	HMV 17E
	85	110	63	16	18	–	M 85x2	–	–	–	1,1	► H 317	KM 17	MB 17	HMV 17 E
	85	110	63	19	–	–	M 85x2	–	–	–	1,15	► H 317 E	KMFE 17	–	HMV 17 E
80	90	120	52	16	18	–	M 90x2	–	–	–	1,1	► H 218	KM 18	MB 18	HMV 18E
	90	120	65	16	18	–	M 90x2	–	–	–	1,3	► H 318	KM 18	MB 18	HMV 18 E
	90	120	65	19	–	–	M 90x2	–	–	–	1,45	► H 318 E	KMFE 18	–	HMV 18 E
85	95	125	55	17	19	–	M 95x2	–	–	–	1,25	► H 219	KM 19	MB 19	HMV 19E
	95	125	68	17	19	–	M 95x2	–	–	–	1,4	► H 319	KM 19	MB 19	HMV 19 E
	95	125	68	20	–	–	M 95x2	–	–	–	1,45	► H 319 E	KMFE 19	–	HMV 19 E
90	100	130	58	18	20	–	M 100x2	–	–	–	1,4	► H 220	KM 20	MB 20	HMV 20E
	100	130	71	18	20	–	M 100x2	–	–	–	1,6	► H 320	KM 20	MB 20	HMV 20 E
	100	130	71	21	–	–	M 100x2	–	–	–	1,7	► H 320 E	KMFE 20	–	HMV 20 E
	100	130	76	18	20	–	M 100x2	–	–	–	1,8	► H 3120	KM 20	MB 20	HMV 20 E
	100	130	76	21	–	–	M 100x2	–	–	–	1,8	► H 3120 E	KMFE 20	–	HMV 20 E
	100	130	97	21	–	–	M 100x2	–	–	–	2	► H 320 E	KMFE 20	–	HMV 20 E
100	110	145	63	19	21	–	M 110x2	–	–	–	1,8	► H 222	KM 22	MB 22	HMV 22E
	110	145	77	19	21	–	M 110x2	–	–	–	2,05	► H 322	KM 22	MB 22	HMV 22 E
	110	145	77	21,5	–	–	M 110x2	–	–	–	2,1	► H 322 E	KMFE 22	–	HMV 22 E
	110	145	81	19	21	–	M 110x2	–	–	–	2,1	► H 3122	KM 22	MB 22	HMV 22 E
	110	145	81	21,5	–	–	M 110x2	–	–	–	2,15	► H 3122 E	KMFE 22	–	HMV 22 E
	110	145	105	21,5	–	–	M 110x2	–	–	–	2,75	► H 322 E	KMFE 22	–	HMV 22 E
110	120	155	72	26	–	–	M 120x2	–	–	–	1,85	► H 3024 E	KMFE 24	–	HMV 24 E
	120	155	88	20	22	–	M 120x2	–	–	–	2,5	► H 3124	KM 24	MB 24	HMV 24 E
	120	155	112	26	–	–	M 120x2	–	–	–	3,1	► H 2324 E	KMFE 24	–	HMV 24 E
115	130	165	80	28	–	–	M 130x2	–	–	–	2,9	► H 3026 E	KMFE 26	–	HMV 26 E
	130	165	92	21	23	–	M 130x2	–	–	–	3,45	► H 3126	KM 26	MB 26	HMV 26 E
125	140	180	82	28	–	–	M 140x2	–	–	–	3,05	► H 3028 E	KMFE 28	–	HMV 28 E
	140	180	97	22	24	–	M 140x2	–	–	–	4,1	► H 3128	KM 28	MB 28	HMV 28 E
135	150	195	87	30	–	–	M 150x2	–	–	–	3,75	► H 3030 E	KMFE 30	–	HMV 30 E
	150	195	111	24	26	–	M 150x2	–	–	–	5,25	► H 3130	KM 30	MB 30	HMV 30 E
	150	195	111	30	–	–	M 150x2	–	–	–	4,7	► H 3130 E	KMFE 30	–	HMV 30 E
140	160	210	93	32	–	–	M 160x3	–	–	–	5,1	► H 3032 E	KMFE 32	–	HMV 32 E
	160	210	119	25	28	–	M 160x3	–	–	–	7,25	► H 3132	KM 32	MB 32	HMV 32 E
	160	210	119	32	–	–	M 160x3	–	–	–	7,35	► H 3132 E	KMFE 32	–	HMV 32 E
150	170	220	101	33	–	–	M 170x3	–	–	–	5,9	► H 3034 E	KMFE 34	–	HMV 34 E
	170	220	122	26	29	–	M 170x3	–	–	–	8,1	► H 3134	KM 34	MB 34	HMV 34 E
	170	220	122	33	–	–	M 170x3	–	–	–	8,1	► H 3134 E	KMFE 34	–	HMV 34 E
160	180	230	109	34	–	–	M 180x3	–	–	–	6,7	► H 3036 E	KMFE 36	–	HMV 36 E
	180	230	131	27	29,5	–	M 180x3	–	–	–	9,15	► H 3136	KM 36	MB 36	HMV 36 E
170	190	240	141	28	30,5	–	M 190x3	–	–	–	10,5	► H 3138	KM 38	MB 38	HMV 38 E
180	200	250	150	29	31,5	–	M 200x3	–	–	–	12	► H 3140	KM 40	MB 40	HMV 40 E

23.1 Adapter sleeves for metric shafts

d₁ 200 – 500 mm

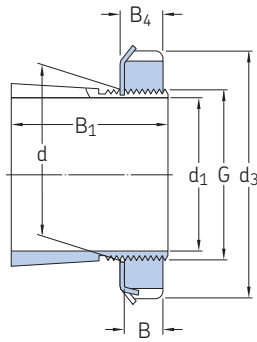


Principal dimensions											Mass	Designations			
d ₁	d	d ₃	B ₁	B	B ₄	B ₅	G	G ₂	G ₃	A		Adapter sleeve assembly	Included products lock nut	locking device	Associated hydraulic nut
mm											kg	–			
200	220	260	126	30	–	41	Tr 220x4	M 6	9	6,5	9,9	► OH 3044 H	HM 3044	MS 3044	HMV 44E
	220	280	161	32	35	–	Tr 220x4	M 6	9	4,2	15	► OH 3144 H	HM 44 T	MB 44	HMV 44E
220	240	290	133	34	–	46	Tr 240x4	M 6	9	4,2	12	► OH 3048 H	HM 3048	MS 3052-48	HMV 48E
	240	300	172	34	37	–	Tr 240x4	M 6	9	4,2	16,5	► OH 3148 H	HM 48 T	MB 48	HMV 48E
240	260	310	145	34	–	46	Tr 260x4	M 6	9	4,2	13,5	► OH 3052 H	HM 3052	MS 3052-48	HMV 52E
	260	330	190	36	39	–	Tr 260x4	M 6	9	4,2	21	► OH 3152 H	HM 52 T	MB 52	HMV 52E
260	280	330	152	38	–	50	Tr 280x4	M 6	9	6,5	16	► OH 3056 H	HM 3056	MS 3056	HMV 56E
	280	350	195	38	41	–	Tr 280x4	M 6	9	4,2	23	► OH 3156 H	HM 56 T	MB 56	HMV 56E
280	300	360	168	42	–	54	Tr 300x4	M 6	9	6,5	20,5	► OH 3060 H	HM 3060	MS 3060	HMV 60E
	300	380	208	40	–	53	Tr 300x4	M 6	9	4,2	29	► OH 3160 H	HM 3160	MS 3160	HMV 60E
	300	380	240	40	–	53	Tr 300x4	M 6	9	4,2	32	► OH 3260 H	HM 3160	MS 3160	HMV 60E
300	320	380	171	42	–	55	Tr 320x5	M 6	9	6,5	22	► OH 3064 H	HM 3064	MS 3068-64	HMV 64E
	320	400	226	42	–	56	Tr 320x5	M 6	9	4	32	► OH 3164 H	HM 3164	MS 3164	HMV 64E
	320	400	258	42	–	56	Tr 320x5	M 6	9	4	35	OH 3264 H	HM 3164	MS 3164	HMV 64E
320	340	400	187	45	–	58	Tr 340x5	M 6	9	6,5	27	► OH 3068 H	HM 3068	MS 3068-64	HMV 68E
	340	440	254	55	–	72	Tr 340x5	M 6	9	4	50	► OH 3168 H	HM 3168	MS 3172-68	HMV 68E
	340	440	288	55	–	72	Tr 340x5	M 6	9	4	51,5	► OH 3268 H	HM 3168	MS 3172-68	HMV 68E
340	360	420	188	45	–	58	Tr 360x5	M 6	9	6,5	29	► OH 3072 H	HM 3072	MS 3072	HMV 72E
	360	460	259	58	–	75	Tr 360x5	M 6	9	4	56	► OH 3172 H	HM 3172	MS 3172-68	HMV 72E
	360	460	299	58	–	75	Tr 360x5	M 6	9	4	60,5	OH 3272 H	HM 3172	MS 3172-68	HMV 72E
360	380	450	193	48	–	62	Tr 380x5	M 6	9	6,5	35,5	► OH 3076 H	HM 3076	MS 3080-76	HMV 76E
	380	490	264	60	–	77	Tr 380x5	M 6	9	4	61,5	► OH 3176 H	HM 3176	MS 3176	HMV 76E
	380	490	310	60	–	77	Tr 380x5	M 6	9	4	69,5	OH 3276 H	HM 3176	MS 3176	HMV 76E
380	400	470	210	52	–	66	Tr 400x5	M 6	9	6,5	40	OH 3080 H	HM 3080	MS 3080-76	HMV 80E
	400	520	272	62	–	82	Tr 400x5	M 6	9	4	73	► OH 3180 H	HM 3180	MS 3184-80	HMV 80E
	400	520	328	62	–	82	Tr 400x5	M 6	9	4	87	OH 3280 H	HM 3180	MS 3184-80	HMV 80E
400	420	490	212	52	–	66	Tr 420x5	M 6	9	6,5	47	OH 3084 H	HM 3084	MS 3084	HMV 84E
	420	540	304	70	–	90	Tr 420x5	M 6	9	4	80	► OH 3184 H	HM 3184	MS 3184-80	HMV 84E
	420	540	352	70	–	90	Tr 420x5	M 6	9	4	96	OH 3284 H	HM 3184	MS 3184-80	HMV 84E
410	440	520	228	60	–	77	Tr 440x5	M 8	12	6,5	65	OH 3088 H	HM 3088	MS 3092-88	HMV 88E
	440	560	307	70	–	90	Tr 440x5	M 8	12	6,5	95	OH 3188 H	HM 3188	MS 3192-88	HMV 88E
	440	560	361	70	–	90	Tr 440x5	M 8	12	6,5	117	OH 3288 H	HM 3188	MS 3192-88	HMV 88E
430	460	540	234	60	–	77	Tr 460x5	M 8	12	6,5	71	OH 3092 H	HM 3092	MS 3092-88	HMV 92E
	460	580	326	75	–	95	Tr 460x5	M 8	12	6,5	119	► OH 3192 H	HM 3192	MS 3192-88	HMV 92E

Principal dimensions											Mass	Designations				
d ₁	d	d ₃	B ₁	B	B ₄	B ₅	G		G ₂	G ₃	A	Adapter sleeve assembly	Included products lock nut	locking device	Associated hydraulic nut	
mm											kg	–				
450	480	560	237	60	–	77	Tr 480x5		M 8	12	6,5	75	OH 3096 H	HM 3096	MS 30/500-96	HMV 96E
	480	620	335	75	–	95	Tr 480x5		M 8	12	6,5	135	OH 3196 H	HM 3196	MS 3196	HMV 96E
500	530	630	265	68	–	90	Tr 530x6		M 8	12	6,5	105	OH 30/530 H	HM 30/530	MS 30/600-530	HMV 106E

23.2 Adapter sleeves with inch dimensions

d_1 $\frac{3}{4}$ – $3\frac{1}{4}$ in.
19,05 – 82,55 mm



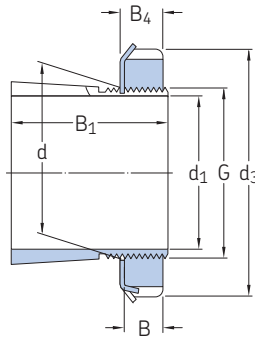
Principal dimensions							Thread	Mass	Designations	Included products lock nut	products locking device	Associated hydraulic nut	
d ₁	d	d ₃ max.	B ₁	B	B ₄	B ₅	G	Threads per inch	Adapter sleeve assembly				
in./mm	mm	in.					in.	–	kg	–			
3/4 19,05	25	1,568	1,259	0,416	0,456	–	0,969	32	0,11	► SNW 5x3/4	N 05	W 05	–
15/16 23,813	30	1,755	1,343	0,416	0,456	–	1,173	18	0,14	► SNW 6x15/16	N 06	W 06	–
1 25,4	30	1,755	1,343	0,416	0,456	–	1,173	18	0,13	► SNW 6x1	N 06	W 06	–
1 1/8 28,575	35	2,068	1,449	0,448	0,488	–	1,376	18	0,16	► SNW 7x1.1/8	N 07	W 07	–
1 3/16 30,163	35	2,068	1,449	0,448	0,488	–	1,376	18	0,16	► SNW 7x1.3/16	N 07	W 07	–
1 1/4 31,75	35	2,068	1,449	0,448	0,488	–	1,376	18	0,16	SNW 7x1.1/4	N 07	W 07	–
	40	2,255	1,494	0,448	0,496	–	0,496	18	0,19	► SNW 8x1.1/4	N 08	W 08	–
1 5/16 33,338	40	2,255	1,494	0,448	0,496	–	1,563	18	0,19	SNW 8x1.5/16	N 08	W 08	–
	45	2,536	1,574	0,448	0,496	–	1,767	18	0,28	► SNW 9x1.5/16	N 09	W 09	–
1 3/8 34,925	40	2,255	1,494	0,448	0,496	–	1,563	18	0,19	► SNW 8x1.3/8	N 08	W 08	–
	45	2,536	1,574	0,448	0,496	–	1,767	18	0,28	► SNW 9x1.3/8	N 09	W 09	–
	45	2,536	2,123	0,448	0,496	–	1,767	18	0,32	SNW 109x1.3/8	N 09	W 09	–
	45	2,536	1,574	0,448	0,496	–	1,767	18	0,28	► SNW 9x1.7/16	N 09	W 09	–
	45	2,536	1,574	0,448	0,496	–	1,767	18	0,32	► SNW 109x1.7/16	N 09	W 09	–
1 1/2 38,1	45	2,536	1,574	0,448	0,496	–	1,767	18	0,28	SNW 9x1.1/2	N 09	W 09	–
	45	2,536	2,123	0,448	0,496	–	1,767	18	0,32	► SNW 109x1.1/2	N 09	W 09	–
	50	2,536	1,755	0,448	0,558	–	1,967	18	0,33	SNW 10x1.1/2	N 09	W 10	HMVC 10E
1 5/8 41,275	50	2,693	1,755	0,51	0,558	–	1,967	18	0,33	► SNW 10x1.5/8	N 10	W 10	HMVC 10E
	55	2,693	2,384	0,51	0,558	–	1,967	18	0,39	SNW 110x1.5/8	N 10	W 10	HMVC 10E
1 11/16 42,863	50	2,693	1,755	0,51	0,558	–	1,967	18	0,33	► SNW 10x1.11/16	N 10	W 10	HMVC 10E
	50	2,693	2,384	0,51	0,558	–	1,967	18	0,39	► SNW 110x1.11/16	N 10	W 10	HMVC 10E
1 3/4 44,45	50	2,693	1,755	0,51	0,558	–	1,967	18	0,33	SNW 10x1.3/4	N 10	W 10	HMVC 10E
	55	2,693	2,384	0,51	0,558	–	1,967	18	0,39	► SNW 110x1.3/4	N 10	W 10	HMVC 10E
	55	2,974	1,835	0,51	0,563	–	2,157	18	0,36	► SNW 11x1.3/4	N 11	W 11	HMVC 11E
1 13/16 46,038	55	2,974	1,835	0,51	0,563	–	2,157	18	0,36	► SNW 11x1.13/16	N 11	W 11	HMVC 11E

Principal dimensions							Thread		Mass	Designations	Included products		Associated
d ₁	d	d ₃ max.	B ₁	B	B ₄	B ₅	G	Threads per inch		Adapter sleeve assembly	lock nut	locking device	hydraulic nut
in./mm	mm	in.					in.	–	kg	–			
1 7/8 47,625	55 55	2,974 2,974	1,835 2,506	0,51 0,51	0,563 0,563	– –	2,157 2,157	18 18	0,36 0,43	► SNW 11x1.7/8 SNW 111x1.7/8	N 11 N 11	W 11 W 11	HMVC 11E HMVC 11E
1 15/16 49,213	55 55	2,974 2,974	1,835 2,506	0,51 0,51	0,563 0,563	– –	2,157 2,157	18 18	0,36 0,43	► SNW 11x1.15/16 ► SNW 111x1.15/16	N 11 N 11	W 11 W 11	HMVC 11E HMVC 11E
2 50,8	55 55 65	2,974 2,974 3,38	1,835 2,506 2,09	0,51 0,51 0,573	0,563 0,563 0,573	– – –	2,157 2,157 2,548	18 18 18	0,36 0,43 0,64	► SNW 11x2 SNW 111x2 ► SNW 13x2	N 11 N 11 N 13	W 11 W 11 W 13	HMVC 11E HMVC 11E HMVC 13E
2 1/16 52,388	60	3,161	2,649	0,541	0,594	–	2,36	18	0,73	► SNW 112x2.1/16	N 12	W 12	HMVC 12E
2 1/8 53,975	65 65	3,38 3,38	2,09 2,09	0,573 0,573	0,626 0,626	– –	2,548 2,548	18 18	0,64 0,79	SNW 13x2.1/8 SNW 113x2.1/8	N 13 N 13	W 13 W 13	HMVC 13E HMVC 13E
2 3/16 55,563	65 65	3,38 3,38	2,09 2,761	0,573 0,573	0,626 0,626	– –	2,548 2,548	18 18	0,64 0,79	► SNW 13x2.3/16 ► SNW 113x2.3/16	N 13 N 13	W 13 W 13	HMVC 13E HMVC 13E
2 1/4 57,15	65 65	3,38 3,38	2,09 2,761	0,573 0,573	0,626 0,626	– –	2,548 2,548	18 18	0,64 0,79	► SNW 13x2.1/4 ► SNW 113x2.1/4	N 13 N 13	W 13 W 13	HMVC 13E HMVC 13E
2 5/16 58,738	65	3,38	2,09	0,573	0,626	–	2,548	18	0,64	► SNW 13x2.5/16	N 13	W 13	HMVC 13E
2 3/8 60,325	75 75	3,88 3,88	2,286 3,074	0,604 0,604	0,666 0,666	– –	2,933 2,933	12 12	1 1,35	► SNW 15x2.3/8 SNW 115x2.3/8	AN 15 AN 15	W 15 W 15	HMVC 15E HMVC 15E
2 7/16 61,913	75 75	3,88 3,88	2,286 3,074	0,604 0,604	0,666 0,666	– –	2,933 2,933	12 12	1 1,35	► SNW 15x2.7/16 ► SNW 115x2.7/16	AN 15 AN 15	W 15 W 15	HMVC 15E HMVC 15E
2 1/2 63,5	75 75	3,88 3,88	2,286 3,074	0,604 0,604	0,666 0,666	– –	2,933 2,933	12 12	1 1,35	SNW 15x2.1/2 SNW 115x2.1/2	AN 15 AN 15	W 15 W 15	HMVC 15E HMVC 15E
2 5/8 66,675	80 80	4,161 4,161	2,366 3,194	0,604 0,604	0,666 0,666	– –	3,137 3,137	12 12	1,1 1,45	SNW 16x2.5/8 SNW 116x2.5/8	AN 16 AN 16	W 16 W 16	HMVC 16E HMVC 16E
2 11/16 68,263	80 80	4,161 4,161	2,366 3,194	0,604 0,604	0,666 0,666	– –	3,137 3,137	12 12	1,1 1,45	► SNW 16x2.11/16 ► SNW 116x2.11/16	AN 16 AN 16	W 16 W 16	HMVC 16E HMVC 16E
2 3/4 69,85	80 80	4,161 4,161	2,366 3,194	0,604 0,604	0,666 0,666	– –	3,137 3,137	12 12	1,1 1,45	► SNW 16x2.3/4 SNW 116x2.3/4	AN 16 AN 16	W 16 W 16	HMVC 16E HMVC 16E
2 13/16 71,438	85 85	4,411 4,411	2,476 3,302	0,635 0,635	0,697 0,697	– –	3,34 3,34	12 12	1,3 1,55	SNW 17x2.13/16 SNW 117x2.13/16	AN 17 AN 17	W 17 W 17	HMVC 17E HMVC 17E
2 7/8 73,025	85 85	4,411 4,411	2,476 3,302	0,635 0,635	0,697 0,697	– –	3,34 3,34	12 12	1,3 1,55	SNW 17x2.7/8 SNW 117x2.7/8	AN 17 AN 17	W 17 W 17	HMVC 17E HMVC 17E
2 15/16 74,613	85 85	4,411 4,411	2,476 3,302	0,635 0,635	0,697 0,697	– –	3,34 3,34	12 12	1,3 1,55	► SNW 17x2.15/16 ► SNW 117x2.15/16	AN 17 AN 17	W 17 W 17	HMVC 17E HMVC 17E
3 76,2	85 85	4,411 4,411	2,476 3,302	0,635 0,635	0,697 0,697	– –	3,34 3,34	12 12	1,3 1,55	► SNW 17x3 ► SNW 117x3	AN 17 AN 17	W 17 W 17	HMVC 17E HMVC 17E
3 1/16 77,788	90 90	4,661 4,661	2,636 3,543	0,698 0,698	0,782 0,782	– –	3,527 3,527	12 12	1,4 1,8	► SNW 18x3.1/16 SNW 118x3.1/16	AN 18 AN 18	W 18 W 18	HMVC 18E HMVC 18E
3 1/8 79,375	90 90	4,661 4,661	2,636 3,543	0,698 0,698	0,782 0,782	– –	3,527 3,527	12 12	1,4 1,8	SNW 18x3.1/8 SNW 118x3.1/8	AN 18 AN 18	W 18 W 18	HMVC 18E HMVC 18E
3 3/16 80,963	90 90	4,661 4,661	2,636 3,543	0,698 0,698	0,782 0,782	– –	3,527 3,527	12 12	1,4 1,8	SNW 18x3.3/16 ► SNW 118x3.3/16	AN 18 AN 18	W 18 W 18	HMVC 18E HMVC 18E
3 1/4 82,55	90 90	4,661 4,661	2,636 3,543	0,698 0,698	0,782 0,782	– –	3,527 3,527	12 12	1,4 1,8	SNW 18x3.1/4 SNW 118x3.1/4	AN 18 AN 18	W 18 W 18	HMVC 18E HMVC 18E



23.2 Adapter sleeves with inch dimensions

d_1 3 5/16 – 5 1/4 in.
84,138 – 133,35 mm



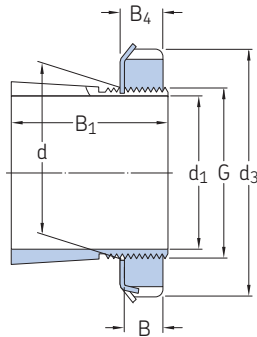
Principal dimensions							Thread	Mass	Designations	Included products lock nut	locking device	Associated hydraulic nut	
d ₁	d	d ₃ max.	B ₁	B	B ₄	B ₅	G	Threads per inch	Adapter sleeve assembly				
in./mm	mm	in.					in.	–	kg	–			
3 5/16 84,138	95	4,943	2,75	0,729	0,813	–	3,73	12	1,85	▶ SNW 19x3.5/16 ▶ SNW 119x3.5/16 SNW 20x3.5/16	AN 19	W 19	HMVC 19E
	95	4,943	3,692	0,729	0,813	–	3,73	12	1,85		AN 19	W 19	HMVC 19E
	100	5,193	2,859	0,76	0,844	–	3,918	12	2		AN 20	W 20	HMVC 20E
	100	3,918	3,961	0,76	0,844	–	3,918	12	2,85	SNW 120x3.5/16	AN 20	W 20	HMVC 20E
3 3/8 85,725	100	5,193	2,859	0,76	0,844	–	3,918	12	2	SNW 20x3.3/8	AN 20	W 20	HMVC 20E
	100	5,193	3,961	0,76	0,844	–	3,918	12	2,85	SNW 120x3.3/8	AN 20	W 20	HMVC 20E
3 7/16 87,313	100	5,193	2,859	0,76	0,844	–	3,918	12	2	▶ SNW 20x3.7/16 ▶ SNW 120x3.7/16	AN 20	W 20	HMVC 20E
	100	5,193	3,961	0,76	0,844	–	3,918	12	2,85		AN 20	W 20	HMVC 20E
3 1/2 88,9	100	5,193	2,859	0,76	0,844	–	3,918	12	2	▶ SNW 20x3.1/2 ▶ SNW 120x3.1/2	AN 20	W 20	HMVC 20E
	100	5,193	3,961	0,76	0,844	–	3,918	12	2,85		AN 20	W 20	HMVC 20E
3 11/16 93,663	105	5,443	2,977	0,76	0,844	–	4,122	12	2,05	▶ SNW 21x3.11/16 ▶ SNW 121x3.11/16 SNW 22x3.11/16	AN 21	W 21	HMVC 21E
	105	5,443	4,157	0,76	0,844	–	4,122	12	2,25		AN 21	W 21	HMVC 21E
	110	5,724	3,196	0,791	0,906	–	4,325	12	2,25		AN 22	W 22	HMVC 22E
	110	5,724	4,338	0,791	3,693	–	4,325	6	3	SNW 122x3.11/16	AN 22	W 22	HMVC 22E
3 3/4 95,25	110	5,724	4,338	0,791	0,906	–	4,325	12	2,95	SNW 122x3.3/4	AN 22	W 22	HMVC 22E
	110	5,724	4,338	0,791	0,906	–	4,325	12	2,25	SNW 22x3.13/16	AN 22	W 22	HMVC 22E
3 13/16 96,838	110	5,724	4,338	0,791	0,906	–	4,325	12	2,25	SNW 122x3.13/16	AN 22	W 22	HMVC 22E
	110	5,724	4,338	0,791	0,906	–	4,325	12	2,95	SNW 22x3.7/8	AN 22	W 22	HMVC 22E
3 7/8 98,425	110	5,724	4,338	0,791	0,906	–	4,325	12	2,25	SNW 122x3.7/8	AN 22	W 22	HMVC 22E
	4,338	5,724	4,338	0,791	0,906	–	4,325	12	2,95		AN 22	W 22	HMVC 22E
3 15/16 100,013	110	5,724	4,338	0,791	0,906	–	4,325	12	2,25	▶ SNW 22x3.15/16 ▶ SNW 122x3.15/16	AN 22	W 22	HMVC 22E
	110	5,724	4,338	0,791	0,906	–	4,325	12	2,95		AN 22	W 22	HMVC 22E
4 101,6	110	5,724	4,338	0,791	0,906	–	4,325	12	2,25	▶ SNW 22x4 SNW 122x4 SNW 3024x4	AN 22	W 22	HMVC 22E
	110	5,724	4,338	0,791	0,906	–	4,325	12	2,95		AN 22	W 22	HMVC 22E
	120	6,13	2,937	0,823	0,938	–	4,716	12	2,8		AN 24	W 24	HMVC 24E
	120	6,13	3,456	0,823	0,938	–	4,716	12	3	SNW 24x4	AN 24	W 24	HMVC 24E
120	6,13	4,638	0,823	0,938	–	4,716	12	3,55	SNW 124x4	AN 24	W 24	HMVC 24E	
4 1/16 103,188	120	5,693	2,937	0,823	0,938	–	4,716	12	2,8	SNW 3024x4.1/16	N 024	W 024	HMVC 24E
	120	6,13	3,456	0,823	0,938	–	4,716	12	3	SNW 24x4.1/16	AN 24	W 24	HMVC 24E
	120	6,13	4,638	0,823	0,938	–	4,716	12	3,55	SNW 124x4.1/16	AN 24	W 24	HMVC 24E
4 1/8 104,775	120	5,693	2,937	0,823	0,938	–	4,716	12	2,8	SNW 3024x4.1/8	N 024	W 024	HMVC 24E
	120	6,13	3,456	0,823	0,938	–	4,716	12	3	SNW 24x4.1/8	AN 24	W 24	HMVC 24E
	120	6,13	4,638	0,823	0,938	–	4,716	12	3,55	SNW 124x4.1/8	AN 24	W 24	HMVC 24E

Principal dimensions							Thread	Mass	Designations	Included products lock nut	locking device	Associated hydraulic nut	
d ₁	d	d ₃ max.	B ₁	B	B ₄	B ₅	G	Threads per inch	Adapter sleeve assembly				
in./mm	mm	in.					in.	–	kg	–			
4 3/16 106,363	120	5,693	2,937	0,823	0,938	–	4,716	12	2,8	► SNW 3024x4.3/16	N 024	W 024	HMVC 24E
	120	5,693	3,456	0,823	0,938	–	4,716	12	2,65	SNW 3124x4.3/16	N 024	W 024	HMVC 24E
	120	6,13	3,456	0,823	0,938	–	4,716	12	3	► SNW 24x4.3/16	AN 24	W 24	HMVC 24E
	120	6,13	4,638	0,823	0,938	–	4,716	12	3,55	► SNW 124x4.3/16	AN 24	W 24	HMVC 24E
4 1/4 107,95	120	5,693	2,937	0,823	0,938	–	4,716	12	2,8	SNW 3024x4.1/4	N 024	W 024	HMVC 24E
	120	5,693	3,456	0,823	0,938	–	4,716	12	2,65	► SNW 3124x4.1/4	N 024	W 024	HMVC 24E
	120	6,13	3,456	0,823	0,938	–	4,716	12	3	► SNW 24x4.1/4	AN 24	W 24	HMVC 24E
	120	6,13	4,638	0,823	0,938	–	4,716	12	3,55	SNW 124x4.1/4	AN 24	W 24	HMVC 24E
4 5/16 109,538	130	6,13	3,227	0,885	1	–	5,106	12	3,4	SNW 3026x4.5/16	N 026	W 026	HMVC 26E
	130	6,755	3,752	0,885	1	–	5,106	12	4,4	SNW 26x4.5/16	AN 26	W 26	HMVC 26E
	130	6,755	4,972	0,885	1	–	5,106	12	5,65	SNW 126x4.5/16	AN 26	W 26	HMVC 26E
4 3/8 111,125	130	6,13	3,227	0,885	1	–	5,106	12	3,4	SNW 3026x4.3/8	N 026	W 026	HMVC 26E
	130	6,755	3,752	0,885	1	–	5,106	12	4,4	SNW 26x4.3/8	AN 26	W 26	HMVC 26E
	130	6,755	4,972	0,885	1	–	5,106	12	5,65	SNW 126x4.3/8	AN 26	W 26	HMVC 26E
4 7/16 112,713	130	6,13	3,227	0,885	1	–	5,106	12	3,4	► SNW 3026x4.7/16	N 026	W 026	HMVC 26E
	130	6,13	3,752	0,885	1	–	5,106	12	3,8	► SNW 3126x4.7/16	N 026	W 026	HMVC 26E
	130	6,755	3,752	0,885	1	–	5,106	12	4,4	► SNW 26x4.7/16	AN 26	W 26	HMVC 26E
	130 140	6,755 7,099	4,972 5,313	0,885 0,948	1 1	– –	5,106 5,497	12 12	5,65 5,9	► SNW 126x4.7/16 SNW 128x4.7/16	AN 26 AN 28	W 26 W 28	HMVC 26E HMVC 28E
4 1/2 114,3	130	6,13	3,227	0,885	1	–	5,106	12	3,4	► SNW 3026x4.1/2	N 026	W 026	HMVC 26E
	130	6,13	3,752	0,885	1	–	5,106	12	3,8	► SNW 3126x4.1/2	N 026	W 026	HMVC 26E
	130	6,755	3,752	0,885	1	–	5,106	12	4,4	► SNW 26x4.1/2	AN 26	W 26	HMVC 26E
	130	6,755	4,972	0,885	1	–	5,106	12	5,65	SNW 126x4.1/2	AN 26	W 26	HMVC 26E
4 13/16 122,238	140	6,505	3,33	0,948	1,063	–	5,497	12	3,8	SNW 3028x4.13/16	N 028	W 028	HMVC 28E
	140	7,099	3,971	0,948	1,063	–	5,497	12	4,75	SNW 28x4.13/16	AN 28	W 28	HMVC 28E
	140	7,099	5,313	0,948	1,063	–	5,497	12	5,9	SNW 128x4.13/16	AN 28	W 28	HMVC 28E
4 7/8 123,825	140	6,505	3,33	0,948	1,063	–	5,497	12	3,8	SNW 3028x4.7/8	N 028	W 028	HMVC 28E
	140	7,099	3,971	0,948	1,063	–	5,497	12	4,75	SNW 28x4.7/8	AN 28	W 28	HMVC 28E
	140	7,099	5,313	0,948	0,906	–	5,497	12	5,9	SNW 128x4.7/8	AN 28	W 28	HMVC 28E
4 15/16 125,413	140	6,505	3,33	0,948	1,063	–	5,888	12	3,8	► SNW 3028x4.15/16	N 028	W 028	HMVC 28E
	140	6,505	3,971	0,948	1,063	–	5,497	12	4	► SNW 3128x4.15/16	N 028	W 028	HMVC 28E
	140	7,099	3,971	0,948	1,063	–	5,497	12	4,75	► SNW 28x4.15/16	AN 28	W 28	HMVC 28E
	140	7,099	5,313	0,948	1,063	–	5,497	12	5,9	► SNW 128x4.15/16	AN 28	W 28	HMVC 28E
5 127	140	6,505	3,33	0,948	1,063	–	5,497	12	3,8	► SNW 3028x5	N 028	W 028	HMVC 28E
	140	6,505	3,971	0,948	1,063	–	5,497	12	4	► SNW 3128x5	N 028	W 028	HMVC 28E
	140	7,099	3,971	0,948	1,063	–	5,497	12	4,75	► SNW 28x5	AN 28	W 28	HMVC 28E
	140	7,099	5,313	0,948	0,906	–	5,497	12	5,9	SNW 128x5	AN 28	W 28	HMVC 28E
5 1/8 130,175	150	7,13	3,482	0,979	1,094	–	5,888	12	4,45	SNW 3030x5.1/8	N 030	W 030	HMVC 30E
	150	7,693	4,231	0,979	1,125	–	5,888	12	7,25	SNW 30x5.1/8	AN 30	W 30	HMVC 30E
	150	7,693	5,611	0,979	1,125	–	5,888	12	8,15	SNW 130x5.1/8	AN 30	W 30	HMVC 30E
5 3/16 131,763	150	7,13	3,482	0,979	1,094	–	5,888	12	4,45	► SNW 3030x5.3/16	N 030	W 030	HMVC 30E
	150	7,13	4,231	0,979	1,094	–	5,888	12	6,2	► SNW 3130x5.3/16	N 030	W 030	HMVC 30E
	150	7,693	4,231	0,979	1,125	–	5,888	12	7,25	► SNW 30x5.3/16	AN 30	W 30	HMVC 30E
	150	7,693	5,611	0,979	1,125	–	5,888	12	8,15	► SNW 130x5.3/16	AN 30	W 30	HMVC 30E
5 1/4 133,35	150	7,13	3,482	0,979	1,094	–	5,888	12	4,45	SNW 3030x5.1/4	N 030	W 030	HMVC 30E
	150	7,693	4,231	0,979	1,125	–	5,888	12	7,25	► SNW 30x5.1/4	AN 30	W 30	HMVC 30E
	150	7,693	5,611	0,979	1,125	–	5,888	12	8,15	SNW 130x5.1/4	AN 30	W 30	HMVC 30E



23.2 Adapter sleeves with inch dimensions

d_1 5 5/16 – 7 13/16 in.
134,938 – 198,438 mm

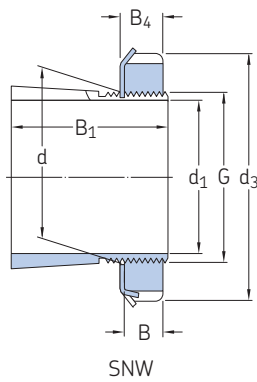


Principal dimensions							Thread	Mass	Designations	Included products lock nut	locking device	Associated hydraulic nut	
d ₁	d	d ₃ max.	B ₁	B	B ₄	B ₅	G	Threads per inch	Adapter sleeve assembly				
in./mm	mm	in.					in.	—	kg	—			
5 5/16 134,938	150	7,693	4,231	0,979	1,125	—	5,888	12	7,25	▶ SNW 30x5.5/16	AN 30	W 30	HMVC 30E
	150	7,693	5,611	0,979	1,125	—	6,284	12	8,15	SNW 130x5.5/16	AN 30	W 30	HMVC 30E
	180	9,068	6,446	1,104	1,104	—	7,066	8	10	SNW 136x5.5/16	AN 36	W 36	HMVC 36E
5 3/8 136,525	150	7,693	4,231	0,979	1,125	—	5,888	12	7,25	SNW 30x5.3/8	AN 30	W 30	HMVC 30E
	150	7,693	5,611	0,979	1,125	—	6,284	12	8,15	SNW 130x5.3/8	AN 30	W 30	HMVC 30E
	160	7,505	3,701	1,041	1,156	—	6,284	8	5,45	SNW 3032x5.3/8	N 032	W 032	HMVC 32E
	160	8,068	4,568	1,041	1,187	—	6,284	8	7,05	SNW 32x5.3/8	AN 32	W 32	HMVC 32E
	160	8,068	5,91	1,041	1,187	—	6,284	8	8,15	SNW 132x5.3/8	AN 32	W 32	HMVC 32E
	180	9,068	6,446	1,104	1,104	—	7,066	8	10	SNW 136x5.3/8	AN 36	W 36	HMVC 36E
	160	8,068	5,91	1,041	1,187	—	6,284	8	8,15	▶ SNW 132x5.7/16	AN 32	W 32	HMVC 32E
5 7/16 138,113	160	7,505	3,701	1,041	1,156	—	6,284	8	5,45	▶ SNW 3032x5.7/16	N 032	W 032	HMVC 32E
	160	7,505	4,568	1,041	1,156	—	6,284	8	6,1	▶ SNW 3132x5.7/16	N 032	W 032	HMVC 32E
	160	8,068	4,568	1,041	1,187	—	6,284	8	7,05	▶ SNW 32x5.7/16	AN 32	W 32	HMVC 32E
	160	8,068	5,91	1,041	1,187	—	6,284	8	8,15	▶ SNW 132x5.7/16	AN 32	W 32	HMVC 32E
5 1/2 139,7	160	7,505	3,701	1,041	1,156	—	6,284	8	5,45	SNW 3032x5.1/2	N 032	W 032	HMVC 32E
	160	8,068	8,068	1,041	1,187	—	6,284	8	7,05	SNW 32x5.1/2	AN 32	W 32	HMVC 32E
	160	8,068	5,91	1,041	1,187	—	6,284	8	8,15	SNW 132x5.1/2	AN 32	W 32	HMVC 32E
5 3/4 146,05	160	8,068	4,568	1,041	1,187	—	6,284	8	7,05	▶ SNW 32x5.3/4	AN 32	W 32	HMVC 32E
5 13/16 147,638	170	7,88	4,009	1,073	1,188	—	6,659	8	6,1	SNW 3034x5.13/16	N 034	W 034	HMVC 34E
	170	8,661	4,837	1,073	1,219	—	6,659	8	8,85	SNW 34x5.13/16	AN 34	W 34	HMVC 34E
	170	8,661	6,178	1,073	1,219	—	6,659	8	9,55	SNW 134x5.13/16	AN 34	W 34	HMVC 34E
5 7/8 149,225	170	7,88	4,009	1,073	1,188	—	6,659	8	6,1	SNW 3034x5.7/8	N 034	W 034	HMVC 34E
	170	8,661	4,837	1,073	1,219	—	6,659	8	8,85	SNW 34x5.7/8	AN 34	W 34	HMVC 34E
	170	8,661	6,178	1,073	1,219	—	6,659	8	9,55	SNW 134x5.7/8	AN 34	W 34	HMVC 34E
5 15/16 150,813	170	7,88	4,009	1,073	1,188	—	6,659	8	6,1	▶ SNW 3034x5.15/16	N 034	W 034	HMVC 34E
	170	7,88	4,837	1,073	1,188	—	6,659	8	7,3	▶ SNW 3134x5.15/16	N 034	W 034	HMVC 34E
	170	8,661	4,837	1,073	1,219	—	6,659	8	8,85	▶ SNW 34x5.15/16	AN 34	W 34	HMVC 34E
	170	8,661	6,178	1,073	1,219	—	6,659	8	9,55	▶ SNW 134x5.15/16	AN 34	W 34	HMVC 34E
6 152,4	170	7,88	4,009	1,073	1,188	—	6,659	8	6,1	▶ SNW 3034x6	N 034	W 034	HMVC 34E
	170	7,88	4,837	1,073	1,188	—	6,659	8	7,3	▶ SNW 3134x6	N 034	W 034	HMVC 34E
	170	8,661	8,661	1,073	1,219	—	6,659	8	8,85	▶ SNW 34x6	AN 34	W 34	HMVC 34E
	170	8,661	6,178	1,073	1,219	—	6,659	8	9,55	▶ SNW 134x6	AN 34	W 34	HMVC 34E
6 5/16 160,338	180	8,255	4,327	1,104	1,219	—	7,066	8	6,8	SNW 3036x6.5/16	N 036	W 036	HMVC 36E
	180	9,068	5,028	1,104	1,25	—	7,066	8	9,3	SNW 36x6.5/16	AN 36	W 36	HMVC 36E
	180	9,068	6,446	1,104	6,3175	—	7,066	8	8,5	SNW 136x6.5/16	AN 36	W 36	HMVC 36E

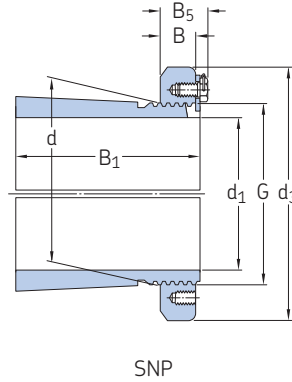
Principal dimensions							Thread	Mass	Designations	Included products lock nut	locking device	Associated hydraulic nut	
d ₁	d	d ₃ max.	B ₁	B	B ₄	B ₅	G	Threads per inch	Adapter sleeve assembly				
in./mm	mm	in.					in.	–	kg	–			
6 3/8 161,925	180	8,255	4,327	1,104	1,219	–	7,066	8	6,8	SNW 3036x6.3/8	N 036	W 036	HMVC 36E
	180	9,068	5,028	1,104	1,25	–	7,066	8	9,3	SNW 36x6.3/8	AN 36	W 36	HMVC 36E
	180	9,068	6,446	1,104	1,104	–	7,066	8	10	SNW 136x6.3/8	AN 36	W 36	HMVC 36E
6 7/16 163,513	180	8,255	4,327	1,104	1,219	–	7,066	8	6,8	▶ SNW 3036x6.7/16	N 036	W 036	HMVC 36E
	180	8,255	5,028	1,104	1,219	–	7,066	8	7,75	▶ SNW 3136x6.7/16	N 036	W 036	HMVC 36E
	180	9,068	5,028	1,104	1,25	–	7,066	8	9,3	▶ SNW 36x6.7/16	AN 36	W 36	HMVC 36E
	180	9,068	6,446	1,104	1,25	–	7,066	8	10	▶ SNW 136x6.7/16	AN 36	W 36	HMVC 36E
6 1/2 165,1	180	8,255	4,327	1,104	1,219	–	7,066	8	6,8	SNW 3036x6.1/2	N 036	W 036	HMVC 36E
	180	8,255	5,028	1,104	1,219	–	7,066	8	7,75	SNW 3136x6.1/2	N 036	W 036	HMVC 36E
	180	9,068	5,028	1,104	1,25	–	7,066	8	9,3	▶ SNW 36x6.1/2	AN 36	W 36	HMVC 36E
	180	9,068	6,446	1,104	1,104	–	7,066	8	10	SNW 136x6.1/2	AN 36	W 36	HMVC 36E
6 13/16 173,038	190	8,693	4,402	1,135	1,25	–	7,472	8	7,5	SNW 3038x6.13/16	N 038	W 038	HMVC 38E
	190	9,474	5,251	1,135	1,281	–	7,472	8	10,5	SNW 38x6.13/16	AN 38	W 38	HMVC 38E
	190	9,474	6,748	1,135	1,281	–	7,472	8	12,5	SNW 138x6.13/16	AN 38	W 38	HMVC 38E
6 7/8 174,625	190	8,693	4,402	1,135	1,25	–	7,472	8	7,5	SNW 3038x6.7/8	N 038	W 038	HMVC 38E
	190	9,474	5,251	1,135	1,281	–	7,472	8	10,5	SNW 38x6.7/8	AN 38	W 38	HMVC 38E
	190	9,474	6,748	1,135	1,281	–	7,472	8	12,5	SNW 138x6.7/8	AN 38	W 38	HMVC 38E
6 15/16 176,213	180	9,068	6,446	1,104	1,104	–	7,066	8	10	SNW 136x6.15/16	AN 36	W 36	HMVC 36E
	190	8,693	4,402	1,135	1,25	–	7,472	8	7,5	▶ SNW 3038x6.15/16	N 038	W 038	HMVC 38E
	190	8,693	5,251	1,135	1,25	–	7,472	8	8,95	▶ SNW 3138x6.15/16	N 038	W 038	HMVC 38E
	190	9,474	5,251	1,135	1,281	–	7,472	8	10,5	▶ SNW 38x6.15/16	AN 38	W 38	HMVC 38E
	190	9,474	6,748	1,135	1,281	–	7,472	8	12,5	▶ SNW 138x6.15/16	AN 38	W 38	HMVC 38E
7 177,8	190	8,693	4,402	1,135	1,25	–	7,472	8	7,5	▶ SNW 3038x7	N 038	W 038	HMVC 38E
	190	8,693	5,251	1,135	1,25	–	7,472	8	8,95	▶ SNW 3138x7	N 038	W 038	HMVC 38E
	190	9,474	5,251	1,135	1,281	–	7,472	8	10,5	▶ SNW 38x7	AN 38	W 38	HMVC 38E
	190	9,474	6,748	1,135	1,281	–	7,472	8	12,5	▶ SNW 138x7	AN 38	W 38	HMVC 38E
7 1/8 180,975	20	9,849	7,085	1,198	1,344	–	7,847	8	16	SNW 140x7.1/8	AN 40	W 40	HMVC 40E
	200	9,443	4,74	1,198	1,313	–	7,847	8	8,85	SNW 3040x7.1/8	N 040	W 040	HMVC 40E
	200	9,849	5,474	1,198	1,344	–	7,847	8	14	SNW 40x7.1/8	AN 40	W 40	HMVC 40E
7 3/16 182,563	200	9,443	4,74	1,198	1,313	–	7,847	8	8,85	▶ SNW 3040x7.3/16	N 040	W 040	HMVC 40E
	200	9,443	5,474	1,198	1,313	–	7,847	8	13	▶ SNW 3140x7.3/16	N 040	W 040	HMVC 40E
	200	9,849	5,474	1,198	1,344	–	7,847	8	14	▶ SNW 40x7.3/16	AN 40	W 40	HMVC 40E
	200	9,849	7,085	1,198	1,344	–	7,847	8	16	▶ SNW 140x7.3/16	AN 40	W 40	HMVC 40E
7 1/4 184,15	220	11,005	7,227	1,26	1,406	–	8,628	8	21	SNW 144x7.3/16	N 44	W 44	HMVC 44E
	200	9,849	7,085	1,198	1,344	–	7,847	8	16	SNW 140x7.1/4	AN 40	W 40	HMVC 40E
	200	9,443	4,74	1,198	1,313	–	7,847	8	8,85	SNW 3040x7.1/4	N 040	W 040	HMVC 40E
7 7/16 188,913	200	9,849	5,474	1,198	1,344	–	7,847	8	14	SNW 40x7.1/4	AN 40	W 40	HMVC 40E
	200	9,443	4,74	1,198	1,313	–	7,847	8	8,85	SNW 3040x7.7/16	N 040	W 040	HMVC 40E
	200	9,443	4,74	1,198	1,313	–	7,847	8	8,85	SNW 3040x7.7/16	N 040	W 040	HMVC 40E
7 1/2 190,5	220	11,005	5,891	1,26	1,406	–	8,628	8	14,5	SNW 44x7.1/2	N 44	W 44	HMVC 44E
	220	11,005	7,227	1,26	1,406	–	8,628	8	21	SNW 144x7.1/2	N 44	W 44	HMVC 44E
7 13/16 198,438	200	9,849	7,085	1,198	1,344	–	7,847	8	16	SNW 140x7.13/16	AN 40	W 40	HMVC 40E
	220	10,255	5,12	1,26	1,375	–	8,628	8	11	SNW 3044x7.13/16	N 044	W 044	HMVC 44E
	220	11,005	5,891	1,26	1,406	–	8,628	8	14,5	SNW 44x7.13/16	N 44	W 44	HMVC 44E
	220	11,005	7,227	1,26	1,406	–	8,628	8	21	SNW 144x7.13/16	N 44	W 44	HMVC 44E

23.2 Adapter sleeves with inch dimensions

d_1 7 7/8 – 16 1/2 in.
200,025 – 419,1 mm



SNW



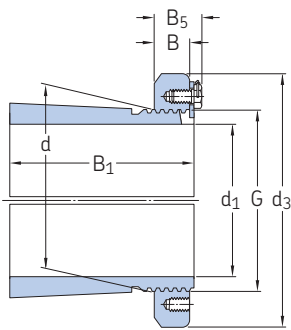
SNP

Principal dimensions							Thread	Mass	Designations	Included products lock nut	Associated locking device	Associated hydraulic nut
d_1	d	d_3 max.	B_1	B	B_4	B_5	G	Threads per inch	Adapter sleeve assembly			
in./mm	mm	in.					in.	–	kg	–		
7 7/8 200,025	200	9,849	7,085	1,198	1,344	–	7,847	8	16	SNW 140x7.7/8	AN 40	HMVC 40E
	220	10,255	5,12	1,26	1,375	–	8,628	8	11	SNW 3044x7.7/8	N 044	HMVC 44E
	220	11,005	5,891	1,26	1,406	–	8,628	8	14,5	SNW 44x7.7/8	N 44	HMVC 44E
	220	11,005	7,227	1,26	1,406	–	8,628	8	21	SNW 144x7.7/8	N 44	HMVC 44E
7 15/16 201,613	220	10,255	5,12	1,26	1,375	–	8,628	8	11	► SNW 3044x7.15/16	N 044	HMVC 44E
	220	10,255	5,891	1,26	1,375	–	8,628	8	13	► SNW 3144x7.15/16	N 044	HMVC 44E
	220	11,005	5,891	1,26	1,406	–	8,628	8	14,5	► SNW 44x7.15/16	N 44	HMVC 44E
	220	11,005	7,277	1,26	1,406	–	8,628	8	21	► SNW 144x7.15/16	N 44	HMVC 44E
8 203,2	200	9,849	7,085	1,198	1,344	–	7,847	8	16	SNW 140x8	AN 40	HMVC 40E
	220	10,255	5,12	1,26	1,375	–	8,628	8	11	► SNW 3044x8	N 044	HMVC 44E
	220	10,255	5,891	1,26	1,375	–	8,628	8	13	► SNW 3144x8	N 044	HMVC 44E
	220	11,005	5,891	1,26	1,406	–	8,628	8	14,5	► SNW 44x8	N 44	HMVC 44E
8 7/16 214,313	220	11,005	7,227	1,26	1,406	–	8,628	8	21	SNW 144x8	N 44	HMVC 44E
	240	11,443	5,422	1,354	–	1,698	9,442	6	14,5	SNP 3048x8.7/16	N 048	HMVC 48E
8 1/2 215,9	240	11,443	5,422	1,354	–	1,698	9,442	6	14,5	SNP 3048x8.1/2	N 048	HMVC 48E
	240	11,443	5,422	1,354	–	1,698	9,442	6	14,5	► SNP 3048x8.15/16	N 048	HMVC 48E
8 15/16 227,013	240	11,443	6,628	1,354	–	1,698	9,442	6	17	► SNP 3148x8.15/16	N 048	HMVC 48E
	240	11,443	8,099	1,354	–	1,698	9,442	6	22	► SNP 148x8.15/16	N 048	HMVC 48E
	240	11,443	8,099	1,354	–	1,698	9,442	6	22			
9 228,6	240	11,443	5,422	1,354	–	1,698	9,442	6	14,5	SNP 3048x9	N 048	HMVC 48E
	240	12,193	8,764	1,416	–	1,76	10,192	6	17	► SNP 3152x9	N 052	HMVC 52E
	260	12,193	8,764	1,416	–	1,76	10,192	6	25	SNP 152x9	N 052	HMVC 52E
9 7/16 239,713	260	12,193	6,009	1,416	–	1,76	10,192	6	18,5	► SNP 3052x9.7/16	N 052	HMVC 52E
	260	12,193	8,764	1,416	–	1,76	10,192	6	20	► SNP 3152x9.7/16	N 052	HMVC 52E
	260	12,193	8,764	1,416	–	1,76	10,192	6	25	► SNP 152x9.7/16	N 052	HMVC 52E
9 1/2 241,3	260	12,193	6,009	1,416	–	1,76	10,192	6	18,5	► SNP 3052x9.1/2	N 052	HMVC 52E
	260	12,193	8,764	1,416	–	1,76	10,192	6	20	► SNP 3152x9.1/2	N 052	HMVC 52E

Principal dimensions						Thread		Mass	Designations	Included products lock nut	locking device	Associated hydraulic nut
d ₁	d	d ₃ max.	B ₁	B	B ₄	B ₅	G	Threads per inch	Adapter sleeve assembly			
in./mm	mm	in.					in.	–	–			
9 15/16 252,413	280 280	13,005 13,005	6,181 7,756	1,51 1,51	– –	1,854 1,854	11,004 11,004	6 6	20,5 21	► SNP 3056x9.15/16 ► SNP 3156x9.15/16	N 056 PL 56 N 056 PL 56	HMVC 56E HMVC 56E
10 254	280 280	13,005 13,005	6,181 7,756	1,51 1,51	– –	1,854 1,854	11,004 11,004	6 6	20,5 21	► SNP 3056x10 ► SNP 3156x10	N 056 PL 56 N 056 PL 56	HMVC 56E HMVC 56E
10 7/16 265,113	280 280 280	13,005 13,005 13,005	6,181 7,756 8,937	1,51 1,51 1,51	– – –	1,854 1,854 1,854	11,004 11,004 11,004	6 6 6	20,5 21 27	► SNP 3056x10.7/16 ► SNP 3156x10.7/16 ► SNP 3256x10.7/16	N 056 PL 56 N 056 PL 56 N 056 PL 56	HMVC 56E HMVC 56E HMVC 56E
10 1/2 266,7	280 280	13,005 13,005	6,181 7,756	1,51 1,51	– –	1,854 1,854	11,004 11,004	6 6	20,5 21	► SNP 3056x10.1/2 ► SNP 3156x10.1/2	N 056 PL 56 N 056 PL 56	HMVC 56E HMVC 56E
10 15/16 277,813	300 300 300	14,193 14,193 14,193	6,717 8,37 9,63	1,573 1,573 1,573	– – –	1,948 1,948 1,948	11,785 11,785 11,785	6 6 6	31 27 31	► SNP 3060x10.15/16 ► SNP 3160x10.15/16 ► SNP 3260x10.15/16	N 060 PL 60 N 060 PL 60 N 060 PL 60	HMVC 60E HMVC 60E HMVC 60E
11 279,4	300 300	14,193 14,193	6,717 9,63	1,573 1,573	– –	1,948 1,948	11,785 11,785	6 6	31 31	► SNP 3060x11 ► SNP 3260x11	N 060 PL 60 N 060 PL 60	HMVC 60E HMVC 60E
11 7/16 290,513	320	15,005	6,936	1,666	–	2,041	12,562	6	29,5	SNP 3064x11.7/16	N 064 PL 64	HMVC 64E
11 1/2 292,1	320	15,005	6,936	1,666	–	2,041	12,562	6	29,5	► SNP 3064x11.1/2	N 064 PL 64	HMVC 64E
11 15/16 303,213	320 320 320	15,005 15,005 15,005	6,936 9,101 10,361	1,666 1,666 1,666	– – –	2,041 2,041 2,041	12,562 12,562 12,562	6 6 6	29,5 33,5 44,5	► SNP 3064x11.15/16 ► SNP 3164x11.15/16 ► SNP 3264x11.15/16	N 064 PL 64 N 064 PL 64 N 064 PL 64	HMVC 64E HMVC 64E HMVC 64E
12 304,8	320 320 320	15,005 15,005 15,005	6,936 9,101 10,361	1,666 1,666 1,666	– – –	2,041 2,041 2,041	12,562 12,562 12,562	6 6 6	29,5 33,5 44,5	► SNP 3064x12 ► SNP 3164x12 ► SNP 3264x12	N 064 PL 64 N 064 PL 64 N 064 PL 64	HMVC 64E HMVC 64E HMVC 64E
12 7/16 315,913	340 340 340	15,755 15,755 15,755	7,533 9,777 11,116	1,791 1,791 1,791	– – –	2,166 2,166 2,166	13,303 13,303 13,303	5 5 5	35,5 42,5 47,5	► SNP 3068x12.7/16 ► SNP 3168x12.7/16 ► SNP 3268x12.7/16	N 068 PL 68 N 068 PL 68 N 068 PL 68	HMVC 68E HMVC 68E HMVC 68E
13 7/16 341,313	360 360 360	16,505 16,505 16,505	7,569 9,852 11,427	1,791 1,791 1,791	– – –	2,166 2,166 2,166	14,17 14,17 14,17	5 5 5	39 54,5 61,5	► SNP 3072x13.7/16 ► SNP 3172x13.7/16 ► SNP 3272x13.7/16	N 072 PL 72 N 072 PL 72 N 072 PL 72	HMVC 72E HMVC 72E HMVC 72E
13 15/16 354,013	360 360 380	16,505 17,755 17,755	7,569 11,867 7,733	1,791 1,916 1,916	– – –	2,166 2,353 2,353	14,17 14,921 14,921	5 5 5	39 66 43	SNP 3072x13.15/16 ► SNP 3276x13.15/16 ► SNP 3076x13.15/16	N 072 PL 72 N 076 PL 76 N 076 PL 76	HMVC 72E HMVC 76E HMVC 76E
	380	17,755	10,056	1,916	–	2,353	14,921	5	57	► SNP 3176x13.15/16	N 076 PL 76	HMVC 76E
14 355,6	360 380 380	17,755 17,755 17,755	11,867 7,733 10,056	1,916 1,916 1,916	– – –	2,353 2,353 2,353	14,921 14,921 14,921	5 5 5	66 43 57	► SNP 3276x14 ► SNP 3076x14 ► SNP 3176x14	N 076 PL 76 N 076 PL 76 N 076 PL 76	HMVC 76E HMVC 76E HMVC 76E
14 15/16 379,413	400	18,505	10,449	2,073	–	2,5	15,709	5	63,5	SNP 3180x14.15/16	N 080 PL 80	HMVC 80E
15 381	400 400 400	18,505 18,505 18,505	8,401 10,449 12,654	2,073 2,073 2,073	– – –	2,5 2,5 2,5	15,709 15,709 15,709	5 5 5	45,5 63,5 75	► SNP 3080x15 ► SNP 3180x15 ► SNP 3280x15	N 080 PL 80 N 080 PL 80 N 080 PL 80	HMVC 80E HMVC 80E HMVC 80E
15 3/4 400,05	420 420 420	19,318 19,318 19,318	8,488 11,402 13,292	2,073 2,073 2,073	– – –	2,5 2,5 2,5	16,496 16,496 16,496	5 5 5	47,5 66 75	► SNP 3084x15.3/4 ► SNP 3184x15.3/4 ► SNP 3284x15.3/4	N 084 PL 84 N 084 PL 84 N 084 PL 84	HMVC 84E HMVC 84E HMVC 84E
16 1/2 419,1	440 440 440	20,505 20,505 20,505	9,1 11,817 13,943	2,385 2,385 2,385	– – –	2,906 2,906 2,906	17,283 17,283 17,283	5 5 5	59,5 68,5 86,5	► SNP 3088x16.1/2 ► SNP 3188x16.1/2 ► SNP 3288x16.1/2	N 088 PL 88 N 088 PL 88 N 088 PL 88	HMVC 88E HMVC 88E HMVC 88E

23.2 Adapter sleeves with inch dimensions

d_1 17 – 19 1/2 in.
431,8 – 495,3 mm

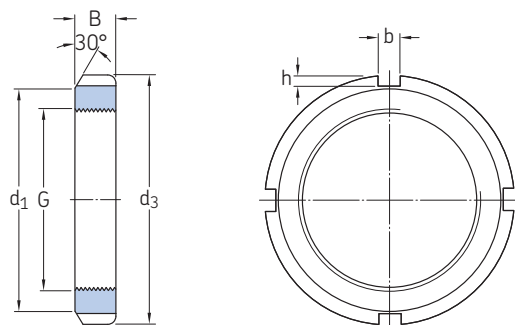


Principal dimensions							Thread	Mass	Designations	Included products lock nut	Associated locking device	Associated hydraulic nut	
d ₁	d	d ₃ max.	B ₁	B	B ₄	B ₅	G	Threads per inch	Adapter sleeve assembly				
in./mm	mm	in.					in.	–	kg	–			
17 431,8	460	21,255	9,336	2,385	–	2,906	18,071	5	71,5	► SNP 3092x17	N 092	PL 92	HMVC 92E
	460	21,255	12,368	2,385	–	2,906	18,071	5	95	► SNP 3192x17	N 092	PL 92	HMVC 92E
18 457,2	480	22,068	12,714	2,385	–	2,937	18,858	5	75	► SNP 3096x18	N 096	PL 96	HMVC 96E
	480	22,068	12,714	2,385	–	2,937	18,858	5	91,5	► SNP 3196x18	N 096	PL 96	HMVC 96E
18 1/2 469,9	500	22,818	9,838	2,703	–	3,25	19,646	5	91	► SNP 30/500x18.1/2	N 500	PL 500	HMVC 100E
19 1/2 495,3	530	24,818	10,579	2,703	–	3,25	20,827	4	120	► SNP 30/530x19.1/2	N 530	PL 530	HMVC 106E

25.1 KM(L) and HM .. T lock nuts

M 10x0,75 – M 200x3

Tr 210x4 – Tr 280x4



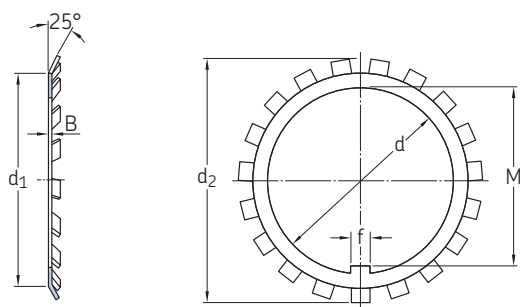
Dimensions						Axial load carrying capacity static	Mass	Designations		
G	d ₁	d ₃	B	b	h			Lock nut	Associated lock washer	spanner
mm						kN	kg	–		
M 10x0,75	13,5	18	4	3	2	9,8	0,004	► KM 0	MB 0	HN 0
M 12x1	17	22	4	3	2	11,8	0,006	► KM 1	MB 1	HN 1
M 15x1	21	25	5	4	2	14,6	0,009	► KM 2	MB 2	HN 2-3
M 17x1	24	28	5	4	2	19,6	0,012	► KM 3	MB 3	HN 2-3
M 20x1	26	32	6	4	2	24	0,025	► KM 4	MB 4	HN 4
M 25x1,5	32	38	7	5	2	31,5	0,028	► KM 5	MB 5	HN 5-6
M 30x1,5	38	45	7	5	2	36,5	0,039	► KM 6	MB 6	HN 5-6
M 35x1,5	44	52	8	5	2	50	0,059	► KM 7	MB 7	HN 7
M 40x1,5	50	58	9	6	2,5	62	0,078	► KM 8	MB 8	HN 8-9
M 45x1,5	56	65	10	6	2,5	78	0,11	► KM 9	MB 9	HN 8-9
M 50x1,5	61	70	11	6	2,5	91,5	0,14	► KM 10	MB 10	HN 10-11
M 55x2	67	75	11	7	3	91,5	0,15	► KM 11	MB 11	HN 10-11
M 60x2	73	80	11	7	3	95	0,16	► KM 12	MB 12	HN 12-13
M 65x2	79	85	12	7	3	108	0,19	► KM 13	MB 13	HN 12-13
M 70x2	85	92	12	8	3,5	118	0,23	► KM 14	MB 14	HN 14
M 75x2	90	98	13	8	3,5	134	0,27	► KM 15	MB 15	HN 15
M 80x2	95	105	15	8	3,5	173	0,36	► KM 16	MB 16	HN 16
M 85x2	102	110	16	8	3,5	190	0,41	► KM 17	MB 17	HN 17
M 90x2	108	120	16	10	4	216	0,51	► KM 18	MB 18	HN 18-20
M 95x2	113	125	17	10	4	236	0,55	► KM 19	MB 19	HN 18-20
M 100x2	120	130	18	10	4	255	0,64	► KM 20	MB 20	HN 18-20
M 105x2	126	140	18	12	5	290	0,79	► KM 21	MB 21	HN 21-22
M 110x2	133	145	19	12	5	310	0,87	► KM 22	MB 22	HN 21-22

Dimensions						Axial load carrying capacity static	Mass	Designations		
G	d ₁	d ₃	B	b	h			Lock nut	Associated lock washer	spanner
mm						kN	kg	—		
M 115x2	137	150	19	12	5	315	0,91	► KM 23	MB 23	TMFN 23-30
M 120x2	135	145	20	12	5	265	0,69	► KML 24	MBL 24	HN 21-22
	138	155	20	12	5	340	0,97	► KM 24	MB 24	TMFN 23-30
M 125x2	148	160	21	12	5	360	1,1	► KM 25	MB 25	TMFN 23-30
M 130x2	145	155	21	12	5	285	0,8	► KML 26	MBL 26	TMFN 23-30
	149	165	21	12	5	365	1,1	► KM 26	MB 26	TMFN 23-30
M 135x2	160	175	22	14	6	430	1,4	► KM 27	MB 27	TMFN 23-30
M 140x2	155	165	22	12	5	305	0,92	► KML 28	MBL 28	TMFN 23-30
	160	180	22	14	6	430	1,4	► KM 28	MB 28	TMFN 23-30
M 145x2	171	190	24	14	6	520	1,8	► KM 29	MB 29	TMFN 23-30
M 150x2	170	180	24	14	5	390	1,25	► KML 30	MBL 30	TMFN 23-30
	171	195	24	14	6	530	1,9	► KM 30	MB 30	TMFN 23-30
M 155x3	182	200	25	16	7	540	2,1	► KM 31	MB 31	TMFN 30-40
M 160x3	180	190	25	14	5	405	1,4	► KML 32	MBL 32	TMFN 23-30
	182	210	25	16	7	585	2,3	► KM 32	MB 32	TMFN 30-40
M 165x3	193	210	26	16	7	570	2,3	► KM 33	MB 33	TMFN 30-40
M 170x3	190	200	26	16	5	430	1,55	► KML 34	MBL 34	TMFN 30-40
	193	220	26	16	7	620	2,35	► KM 34	MB 34	TMFN 30-40
M 180x3	200	210	27	16	5	450	1,8	► KML 36	MBL 36	TMFN 30-40
	203	230	27	18	8	670	2,8	► KM 36	MB 36	TMFN 30-40
M 190x3	210	220	28	16	5	475	1,85	► KML 38	MBL 38	TMFN 30-40
	214	240	28	18	8	695	3,05	► KM 38	MB 38	TMFN 30-40
M 200x3	222	240	29	18	8	625	2,6	► KML 40	MBL 40	TMFN 30-40
	226	250	29	18	8	735	3,35	► KM 40	MB 40	TMFN 30-40
Tr 210x4	238	270	30	20	10	Contact SKF	5,1	► HM 42 T	—1)	TMFN 40-52
Tr 220x4	250	280	32	20	10	Contact SKF	4,75	► HM 44 T	MB 44	TMFN 40-52
Tr 230x4	260	290	34	20	10	Contact SKF	5,45	HM 46 T	—1)	TMFN 40-52
Tr 240x4	270	300	34	20	10	Contact SKF	5,6	► HM 48 T	MB 48	TMFN 40-52
Tr 250x4	290	320	36	20	10	Contact SKF	7,45	HM 50 T	—1)	TMFN 40-52
Tr 260x4	300	330	36	24	12	Contact SKF	7,55	► HM 52 T	MB 52	TMFN 52-64
Tr 280x4	320	350	38	24	12	Contact SKF	8,65	► HM 56 T	MB 56	TMFN 52-64



25.2 MB(L) lock washers

MB 0 – MB 56



Designation	Dimensions						Mass
	d	d ₁	d ₂	B	f	M	
–	mm						kg
► MB 0	10	13,5	21	1	3	8,5	0,001
► MB 1	12	17	25	1	3	10,5	0,002
MB 1 A		17	25	1,2	3	10,5	0,0025
► MB 2	15	21	28	1	4	13,5	0,003
MB 2 A		21	28	1,2	4	13,5	0,0035
► MB 3	17	24	32	1	4	15,5	0,003
MB 3 A		24	32	1,2	4	15,5	0,0035
► MB 4	20	26	36	1	4	18,5	0,004
MB 4 A		26	36	1,2	4	18,5	0,005
► MB 5	25	32	42	1,25	5	23	0,006
MB 5 A		32	42	1,8	5	23	0,0085
► MB 6	30	38	49	1,25	5	27,5	0,008
MB 6 A		38	49	1,8	5	27,5	0,011
► MB 7	35	44	57	1,25	6	32,5	0,011
MB 7 A		44	57	1,8	6	32,5	0,016
► MB 8	40	50	62	1,25	6	37,5	0,013
MB 8 A		50	62	1,8	6	37,5	0,018
► MB 9	45	56	69	1,25	6	42,5	0,015
MB 9 A		56	69	1,8	6	42,5	0,021
► MB 10	50	61	74	1,25	6	47,5	0,016
MB 10 A		61	74	1,8	6	47,5	0,023
► MB 11	55	67	81	1,5	8	52,5	0,022
MB 11 A		67	81	2,5	8	52,5	0,037
► MB 12	60	73	86	1,5	8	57,5	0,024
MB 12 A		73	86	2,5	8	57,5	0,04
► MB 13	65	79	92	1,5	8	62,5	0,03
MB 13 A		79	92	2,5	8	62,5	0,05
► MB 14	70	85	98	1,5	8	66,5	0,032
MB 14 A		85	98	2,5	8	66,5	0,053
► MB 15	75	90	104	1,5	8	71,5	0,035
MB 15 A		90	104	2,5	8	71,5	0,058

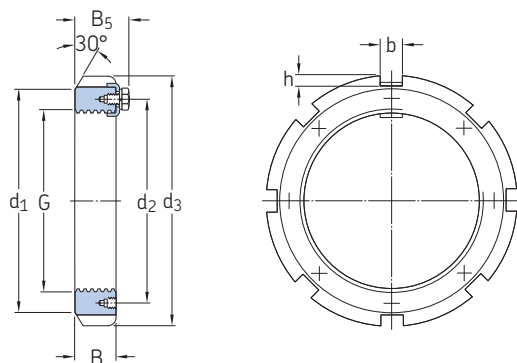
Designation	Dimensions						Mass
	d	d ₁	d ₂	B	f	M	
–	mm						kg
► MB 16	80	95	112	1,75	10	76,5	0,046
MB 16 A		95	112	2,5	10	76,5	0,066
► MB 17	85	102	119	1,75	10	81,5	0,053
MB 17 A		102	119	2,5	10	81,5	0,076
► MB 18	90	108	126	1,75	10	86,5	0,061
MB 18 A		108	126	2,5	10	86,5	0,087
► MB 19	95	113	133	1,75	10	91,5	0,066
MB 19 A		113	133	2,5	10	91,5	0,094
► MB 20	100	120	142	1,75	12	96,5	0,077
MB 20 A		120	142	2,5	12	96,5	0,11
► MB 21	105	126	145	1,75	12	100,5	0,083
► MB 22	110	133	154	1,75	12	105,5	0,091
► MB 23	115	137	159	2	12	110,5	0,11
► MBL 24	120	135	152	2	14	115	0,07
MB 24		138	164	2	14	115	0,11
► MB 25	125	148	170	2	14	120	0,12
► MBL 26	130	145	161	2	14	125	0,08
MB 26		149	175	2	14	125	0,12
► MB 27	135	160	185	2	14	130	0,14
► MBL 28	140	155	172	2	16	135	0,09
MB 28		160	192	2	16	135	0,14
► MB 29	145	172	202	2	16	140	0,17
► MBL 30	150	170	189	2	16	145	0,1
MB 30		171	205	2	16	145	0,18
► MB 31	155	182	212	2,5	16	147,5	0,2
► MBL 32	160	180	199	2,5	18	154	0,14
MB 32		182	217	2,5	18	154	0,22
► MB 33	165	193	222	2,5	18	157,5	0,24

Designation	Dimensions						Mass
	d	d ₁	d ₂	B	f	M	
–	mm						kg
► MBL 34	170	190	211	2,5	18	164	0,15
► MB 34		193	232	2,5	18	164	0,24
► MBL 36	180	200	222	2,5	20	174	0,16
► MB 36		203	242	2,5	20	174	0,26
► MBL 38	190	210	232	2,5	20	184	0,17
► MB 38		214	252	2,5	20	184	0,26
► MBL 40	200	222	245	2,5	20	194	0,22
► MB 40		226	262	2,5	20	194	0,28
► MB 44	220	250	292	3	24	213	0,35
► MB 48	240	270	312	3	24	233	0,45
► MB 52	260	300	342	3	28	253	0,65
► MB 56	280	320	362	3	28	273	0,7



25.3 HM lock nuts

Tr 280x4 – Tr 1120x8



Dimensions								Mass	Designations	Associated		
G	d ₁	d ₂	d ₃	B	B ₅	b	h		Lock nut	locking clip	spanner	eye bolt
mm								kg	–			
Tr 280x4	310	293	330	38	50	24	10	5,75	► HM 3056	MS 3056	TMFN 52-64	–
Tr 300x4	336	316	360	42	54	24	12	8,35	► HM 3060	MS 3060	TMFN 52-64	–
	340	326	380	40	53	24	12	11,5	► HM 3160	MS 3160	TMFN 52-64	–
Tr 320x5	356	336	380	42	55	24	12	9	► HM 3064	MS 3068-64	TMFN 52-64	–
	360	346	400	42	56	24	12	13	► HM 3164	MS 3164	TMFN 52-64	–
Tr 340x5	376	356	400	45	58	24	12	11	► HM 3068	MS 3068-64	TMFN 52-64	–
	400	373	440	55	72	28	15	24	► HM 3168	MS 3172-68	TMFN 64-80	M 10
Tr 360x5	394	375	420	45	58	28	13	11,5	► HM 3072	MS 3072	TMFN 64-80	–
	420	393	460	58	75	28	15	26,5	► HM 3172	MS 3172-68	TMFN 64-80	M 10
Tr 380x5	422	399	450	48	62	28	14	15	► HM 3076	MS 3080-76	TMFN 64-80	–
	440	415	490	60	77	32	18	32	► HM 3176	MS 3176	TMFN 64-80	M 10
Tr 400x5	442	419	470	52	66	28	14	17	► HM 3080	MS 3080-76	TMFN 64-80	–
	460	440	520	62	82	32	18	38	► HM 3180	MS 3184-80	TMFN 64-80	M 10
Tr 420x5	462	439	490	52	66	32	14	18,5	► HM 3084	MS 3084	TMFN 64-80	–
	490	460	540	70	90	32	18	45	► HM 3184	MS 3184-80	TMFN 80-500	M 10
Tr 440x5	490	463	520	60	77	32	15	26	► HM 3088	MS 3092-88	TMFN 64-80	M 10
	510	478	560	70	90	36	20	46,5	► HM 3188	MS 3192-88	TMFN 80-500	M 10
Tr 460x5	510	483	540	60	77	32	15	27	► HM 3092	MS 3092-88	TMFN 80-500	M 10
	540	498	580	75	95	36	20	50,5	HM 3192	MS 3192-88	TMFN 80-500	M 10
Tr 480x5	560	528	620	75	95	36	20	62	HM 3196	MS 3196	TMFN 80-500	M 10
Tr 500x5	550	523	580	68	85	36	15	33,5	► HM 30/500	MS 30/500-96	TMFN 500-600	M 10
Tr 530x6	590	558	630	68	90	40	20	42,5	► HM 30/530	MS 30/600-530	TMFN 500-600	M 10
Tr 560x6	610	583	650	75	97	40	20	44,5	► HM 30/560	MS 30/560	TMFN 500-600	M 10
Tr 600x6	660	628	700	75	97	40	20	52,5	► HM 30/600	MS 30/600-530	TMFN 500-600	M 10
Tr 630x6	690	658	730	75	97	45	20	55	► HM 30/630	MS 30/630	TMFN 500-600	M 10
Tr 670x6	740	703	780	80	102	45	20	68,5	► HM 30/670	MS 30/670	TMFN 600-750	M 10
Tr 710x7	780	742	830	90	112	50	25	91,5	► HM 30/710	MS 30/710	TMFN 600-750	M 12
Tr 750x7	820	782	870	90	112	55	25	94	► HM 30/750	MS 30/800-750	TMFN 600-750	M 12