

Adapter Sleeves and Withdrawal sleeves Lock Nuts, Lock washers

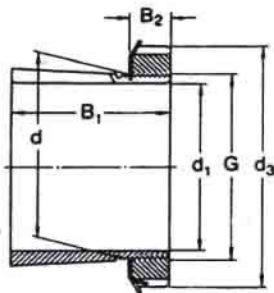
Prefix

Adapter Sleeve:

- H - Adapter sleeves suitable for metric size shaft
- HE - Adapter sleeves suitable for inch size shaft having dia. In multiples of 1/4 inch.
- OH - Adapter sleeve with oil injection groove and duct.
- AH - Withdrawal sleeve suitable for metric size shaft.
- AHX - Withdrawal sleeve with altered thread dia. And / or bore dia. In order to give full conformity to ISO standards.
- AOH - Withdrawal sleeves with oil injection groove and duct.
- HA - Adapter sleeve suitable for inch size shaft having dia. In multiples of 1/16 inch.
- HB - Adapter sleeve suitable for inch size shaft having dia. multiples of 7/8 inch.

Suffix

- A - Thread standard of adapter sleeves altered from withworth to metric. This is applicable to sizes 00 to 13. (Consequently the associated nut is taken from series KM instead of series HM).
- D - Sleeve in halves.
- U - Adapter sleeve without nut and locking device.



Adapter sleeve are normally manufactured with a taper on outer diameter while the bore is suitable for cylindrical shaft settings. These permit use of commercially drawn or machined shaft as wider diameter tolerances are allowed for sleeve settings then for bearing settings.

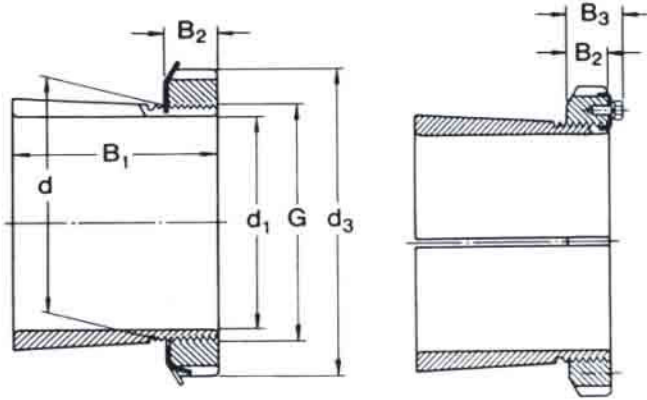
Adapter sleeves are supplied complete with lock nuts and locking washers.

Mounting and dismounting large bearings on adapter sleeve is considerably facilitated if a Hydraulic nut is used in conjunction with oil injection equipment.

Large size special adapter sleeves with facilities for oil injection (denoted by prefix OH) can be supplied on request.

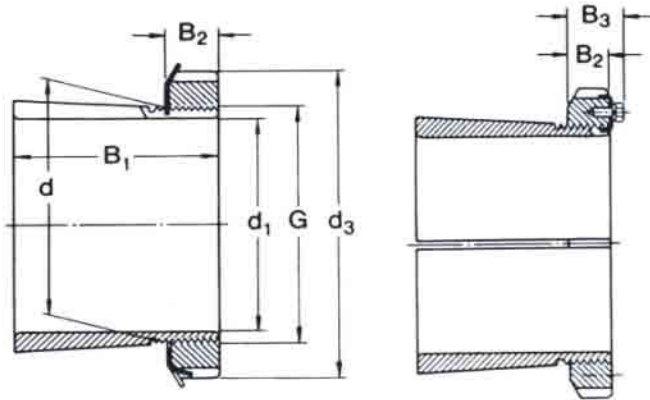
Material

All standard adapter sleeves are made of mild steel. However, large sleeves and sleeves of special types are made of EN 8 steel on request.



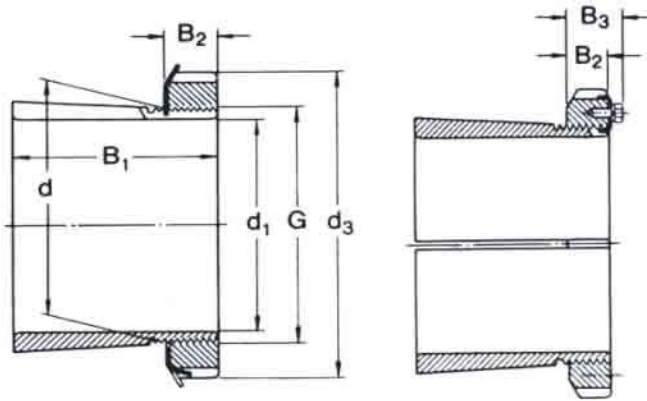
Adapter Sleeves for Metric Size Shafts

Dimensions							Designation	Appropriate	Locking
d ₁	d	d ₃	B ₁	B ₂	B ₃	G	Adapter Sleeve Complete	lock Nut	Device
mm									
20	25	38	26	8	---	M 25 X 1.5	H 205 A	KM 5	MB 5
		38	29	8	---	M 25 X 1.5	H 305 A	KM 5	MB 5
25	30	45	27	8	---	M 30 X 1.5	H 206 A	KM 6	MB 6
---	---	45	31	8	---	M 30 X 1.5	H 306 A	KM 6	MB 6
---	---	45	38	8	---	M 30 X 1.5	H 2306 A	KM 6	MB 6
30	35	52	29	9	---	M 35 X 1.5	H 207 A	KM 7	MB 7
---	---	52	35	9	---	M 35 X 1.5	H 307 A	KM 7	MB 7
---	---	52	43	9	---	M 35 X 1.5	H 2307 A	KM 7	MB 7
35	40	58	31	10	---	M 40 X 1.5	H 208 A	KM 8	MB 8
---	---	58	36	10	---	M 40 X 1.5	H 308 A	KM 8	MB 8
---	---	58	46	10	---	M 40 X 1.5	H 2308 A	KM 8	MB 8
40	45	65	33	11	---	M 45 X 1.5	H 209 A	KM 9	MB 9
---	---	65	39	11	---	M 45 X 1.5	H 309 A	KM 9	MB 9
---	---	65	50	11	---	M 45 X 1.5	H 2309 A	KM 9	MB 9
45	50	70	35	12	---	M 50 X 1.5	H 210 A	KM 10	MB 10
---	---	70	42	12	---	M 50 X 1.5	H 310 A	KM 10	MB 10
---	---	70	55	12	---	M 50 X 1.5	H 2310 A	KM 10	MB 10
50	55	75	37	12	---	M 55 X 2	H 211 A	KM 11	MB 11
---	---	75	45	12	---	W 55 X 19 TPI	H 311 A	KM 11	MB 11
---	---	75	59	12	---	M 55 X 2	H 2311 A	KM 11	MB 11
55	60	80	38	13	---	M 60 X 2	H 212 A	KM 12	MB 12
---	---	80	47	13	---	M 60 X 2	H 312 A	KM 12	MB 12
---	---	80	62	13	---	M 60 X 2	H 2312 A	KM 12	MB 12
60	65	85	40	14	---	M 65 X 2	H 213 A	KM 13	MB 13
---	---	85	50	14	---	M 65 X 2	H 313 A	KM 13	MB 13
---	---	85	65	14	---	M 65 X 2	H 2313 A	KM 13	MB 13
---	70	92	52	14	---	M 70 X 2	H 314	KM 14	MB 14



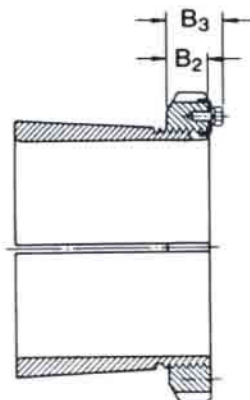
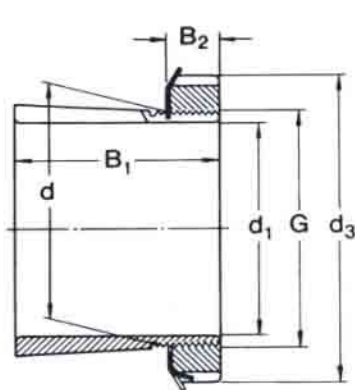
Adapter Sleeves for Metric Size Shafts

Dimensions							Designation	Appropriate	Locking
d ₁	d	d ₃	B ₁	B ₂	B ₃	G	Adapter Sleeve Complete	lock Nut	Device
mm									
—	—	92	68	14	—	M 70 X 2	H 2314	KM 14	MB 14
65	75	98	43	15	—	M 75 X 2	H 215	KM 15	MB 15
—	—	98	55	15	—	M 75 X 2	H 315	KM 15	MB 15
—	—	98	73	15	—	M 75 X 2	H 2315	KM 15	MB 15
70	80	105	46	17	—	M 80 X 2	H 216	KM 16	MB 16
—	—	105	59	17	—	M 80 X 2	H 316	KM 16	MB 16
—	—	105	78	17	—	M 80 X 2	H 2316	KM 16	MB 16
75	85	110	50	18	—	M 85 X 2	H 217	KM 17	MB 17
—	—	110	63	18	—	M 85 X 2	H 317	KM 17	MB 17
—	—	110	82	18	—	M 85 X 2	H 2317	KM 17	MB 17
80	90	120	52	18	—	M 90 X 2	H 218	KM 18	MB 18
—	—	120	65	18	—	M 90 X 2	H 318	KM 18	MB 18
—	—	120	86	18	—	M 90 X 2	H 2318	KM 18	MB 18
85	95	125	55	19	—	M 95 X 2	H 219	KM 19	MB 19
—	—	125	68	19	—	M 95 X 2	H 319	KM 19	MB 19
—	—	125	90	19	—	M 95 X 2	H 2319	KM 19	MB 19
90	100	130	58	20	—	M 100 X 2	H 220	KM 20	MB 20
—	—	130	71	20	—	M 100 X 2	H 320	KM 20	MB 20
—	—	130	97	20	—	M 100 X 2	H 2320	KM 20	MB 20
95	105	140	60	20	—	M 105 X 2	H 221	KM 21	MB 21
—	—	140	74	20	—	M 105 X 2	H 321	KM 21	MB 21
100	110	145	63	21	—	M 110 X 2	H 222	KM 22	MB 22
—	—	145	77	21	—	M 110 X 2	H 322	KM 22	MB 22
—	—	145	105	21	—	M 110 X 2	H 2322	KM 22	MB 22



Adapter Sleeves for Metric Size Shafts

Dimensions							Designation	Appropriate	Locking
d ₁	d	d ₃	B ₁	B ₂	B ₃	G	Adapter Sleeve Complete	lock Nut	Device
mm									
110	120	145	72	22	—	M 120 X 2	H 3024	KML 24	MBL 24
—	—	155	88	22	—	M 120 X 2	H 3124	KM 24	MB 24
—	—	155	112	22	—	M 120 X 2	H 2324	KM 24	MB 24
115	130	155	80	23	—	M 130 X 2	H 3026	KML 26	MBL 26
—	—	165	92	23	—	M 130 X 2	H 3126	KM 26	MB 26
—	—	165	121	23	—	M 130 X 2	H 2326	KM 26	MB 26
125	140	165	82	24	—	M 140 X 2	H 3028	KML 28	MBL 28
—	—	180	97	24	—	M 140 X 2	H 3128	KM 28	MB 28
—	—	180	131	24	—	M 140 X 2	H 2328	KM 28	MB 28
135	150	180	87	26	—	M 150 X 2	H 3030	KML 30	MBL 30
—	—	195	111	26	—	M 150 X 2	H 3130	KM 30	MB 30
—	—	195	139	26	—	M 150 X 2	H 2330	KM 30	MB 30
140	160	190	93	27.5	—	M 160 X 3	H 3032	KML 32	MBL 32
—	—	210	119	28	—	M 160 X 3	H 3132	KM 32	MB 32
—	—	210	147	28	—	M 160 X 3	H 2332	KM 32	MB 32
150	170	200	101	28.5	—	M 170 X 3	H 3034	KML 34	MBL 34
—	—	220	122	29	—	M 170 X 3	H 3134	KM 34	MB 34
—	—	220	154	29	—	M 170 X 3	H 2334	KM 34	MB 34
160	180	210	109	29.5	—	M 180 X 3	H 3036	KML 36	MBL 36
—	—	230	131	30	—	M 180 X 3	H 3136	KM 36	MB 36
—	—	230	161	30	—	M 180 X 3	H 2336	KM 36	MB 36
170	190	220	112	30.5	—	M 190 X 3	H 3038	KML 38	MBL 38
—	—	240	141	31	—	M 190 X 3	H 3138	KM 38	MB 38
—	—	240	169	31	—	M 190 X 3	H 2338	KM 38	MB 38



Adapter Sleeves for Metric Size Shafts

Dimensions							Designation Adapter Sleeve Complete	Appropriate lock Nut	Locking Device
d_1	d	d_3	B_1	B_2	B_3	G			
mm									
180	200	240	120	31.5	—	M 200 X 3	H 3040	KML 40	MBL 40
—	—	250	150	32	—	M 200 X 3	H 3140	KM 40	MB 40
—	—	250	176	32	—	M 200 X 3	H 2340	KM 40	MB 40
200	220	260	126	30	41	TR 220 X 4	H 3044	HM 3044	MS 3044
—	—	280	161	35	—	TR 220 X 4	H 3144 A	HM 44 T	MB 44
—	—	280	186	35	—	TR 220 X 4	H 2344 A	HM 44T	MB 44
220	240	290	133	34	46	TR 240 X 4	H 3048	HM 3048	MS 3052-48
—	—	300	172	37	—	TR 240 X 4	H 3148 A	HM 48 T	MB 48
—	—	300	199	37	—	TR 240 X 4	H 2348 A	HM 48 T	MB 48
240	260	310	145	34	46	TR 260 X 4	H 3052	HM 3052	MS 3052-48
—	—	330	190	39	—	TR 260 X 4	H 3152 A	HM 52 T	MB 52
—	—	330	211	39	—	TR 260 X 4	H 2352 A	HM 52 T	MB 52
260	280	330	152	38	50	TR 280 X 4	H 3056	HM 3056	MS 3056
—	—	350	195	41	—	TR 280 X 4	H 3156 A	HM 56 T	MB 56
—	—	350	224	41	—	TR 280 X 4	H 2356 A	HM 56 T	MB 56
280	300	360	168	42	54	TR 300 X 4	H 3060	HM 3060	MS 3060
—	—	380	208	40	53	TR 300 X 4	H 3160	HM 3160	MS 3160
300	320	380	171	42	55	TR 320 X 5	H 3064	HM 3064	MS 3068-64
—	—	400	226	42	56	TR 320 X 5	H 3164	HM 3164	MS 3164
—	—	400	258	42	56	TR 320 X 5	H 3264	HM 3164	MS 3164
320	340	400	187	45	58	TR 340 X 5	H 3068	HM 3068	MS 3068-64
320	340	440	254	55	72	TR 340 X 5	OH 3168H	HM 3168	MS 3172-68
340	360	420	188	45	58	TR 360 X 5	H 3072	HM 3072	MS 3072
340	360	460	259	58	75	TR 360 X 5	OH 3172H	HM 3172	MS 3172-68
360	380	450	193	48	62	TR 380 X 5	H 3076	HM 3076	MS 3080-76
360	380	490	264	60	77	TR 380 X 5	OH 3176H	HM 3176	MS 3176
380	400	470	210	52	66	TR 400 X 5	H 3080	HM 3080	MS 3080-76
380	400	520	272	62	82	TR 400 X 5	OH 3180H	HM 3180	MS 3184-80
400	420	490	212	52	66	TR 420 X 5	H 3084	HM 3084	MS 3084
400	420	540	304	70	90	TR 420 X 5	OH 3184H	HM 3184	MS 3184-80
410	440	560	307	70	90	TR 440 X 5	OH 3188H	HM 3188	MS 3192-88
430	460	580	326	75	95	TR 460 X 5	OH 3192H	HM 3192	MS 3192-88
450	480	560	237	60	77	TR 480 X 5	H 3096	HM 3096	MS 30/500-96
450	480	620	235	75	95	TR 480 X 5	OH 3196H	HM 3196	MS 3196