

Section B
GUIDE BUSHING

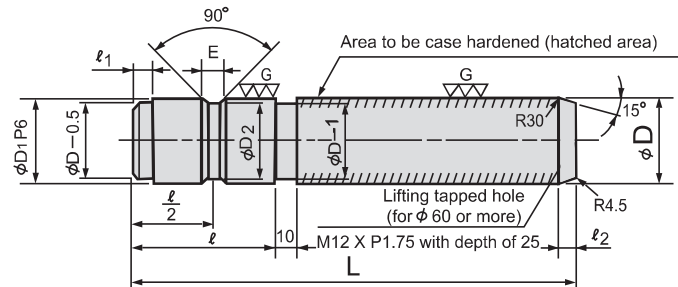


Guide Post



ASGP

Material	Case hardening Steel
Hardness	56 - 60 Rc



Standard No.	ϕ D		ϕ D1	p6	ϕ D2	L	ℓ	ℓ1	ℓ2	E
ASGP - 25X 80	25	-0.005 -0.015	25	+0.035 +0.022	21	80	30	5	5	8
ASGP - 25X100						100				
ASGP - 25X120						120				
ASGP - 30X100	26		100		40					
ASGP - 30X120			120							
ASGP - 30X140			140							
ASGP - 40X120	30		40	+0.042 +0.026	36	120	50			
ASGP - 40X140						140				
ASGP - 40X160						160				
ASGP - 50X160	50		50		45	160	70	10		
ASGP - 50X200						200				
ASGP - 50X250						250				
ASGP - 60X200	60	60	+0.051 +0.032	55	200	90	12			
ASGP - 60X250					250					
ASGP - 60X300					300					
ASGP - 60X350					350					
ASGP - 65X250	65	65		60	250	100				
ASGP - 65X300					300					
ASGP - 65X350			350							
ASGP - 80X250	80	80	+0.059 +0.037	75	250	120				
ASGP - 80X300					300					
ASGP - 80X350					350					
ASGP - 80X400					400					
ASGP - 100X300	100	100		95	300	150				
ASGP - 100X350					350					
ASGP - 100X400			400							

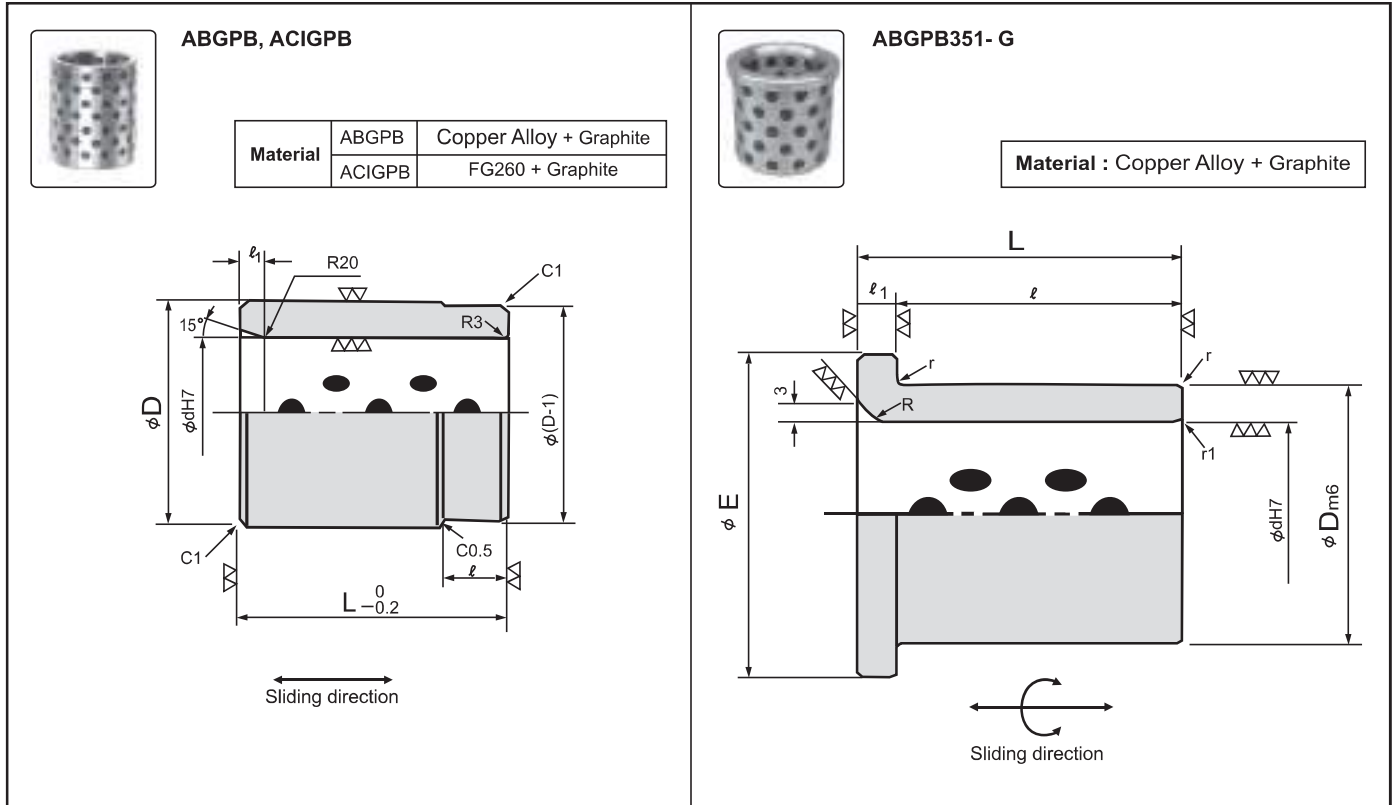
ORDERING
CODE

CATALOG NO.	D	L
ASGP	50	200



Oilless Guide Post Bushing

Use this bushing together with Guide Post ASGP



Standard No.	ϕd	H7	ϕD	L	ℓ	ℓ_1
ABGPB (ACIGPB) -30	30	$+0.021$ 0	50	+0.008	50	10
ABGPB (ACIGPB) -35	35	$+0.025$ 0	60	± 0.0095	55	15
ABGPB (ACIGPB) -40	40		70		60	10
ABGPB (ACIGPB) -50	50	$+0.030$ 0	80	± 0.011	75	15
ABGPB (ACIGPB) -60	60		100		90	20
ABGPB (ACIGPB) -80	80		120		120	25
ABGPB (ACIGPB) -100	100	$+0.035$ 0	120	± 0.0125	150	
ABGPB (ACIGPB) -120	120		140		180	



**ORDERING
CODE**

CATALOG NO. d

ACIGPB 60

Standard No.	φ d	H7	L	φ D	m6	φ E	ℓ1	ℓ	R	r	r1
ABGPB351 - 25X 40-G	25	$+0.021$ 0	40	35	$+0.025$ $+0.009$	45	7	33	R10	R1	R2
ABGPB351 - 30X 50-G	30		50	40		50	40				
ABGPB351 - 40X 70-G	40	$+0.025$ 0	70	55	$+0.030$ $+0.011$	65	60	R20			
ABGPB351 - 50X 80-G	50		65	75		70					
ABGPB351 - 60X 80-G	60	80	75	85		70					
ABGPB351 - 65X 80-G	65	$+0.030$ 0	80	90		110					
ABGPB351 - 65X 120-G	65		120	80		90					
ABGPB351 - 80X 100-G	80	100	100	110	130						
ABGPB351 - 80X 140-G	80	140	$+0.035$ $+0.013$	130	130						
ABGPB351 - 100X 100-G	100	100			120	90					
ABGPB351 - 100X 140-G	100	140			120	130					



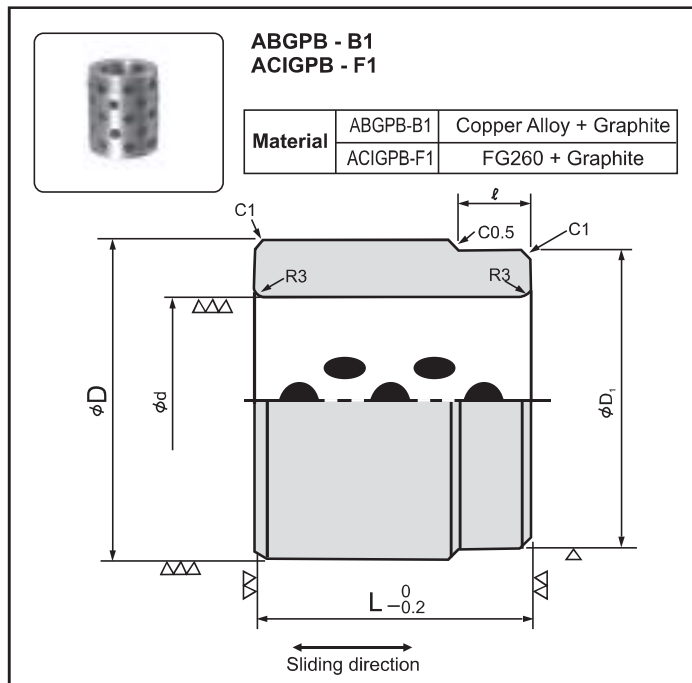
**ORDERING
CODE**

CATALOG NO. d L

ABGPB351 80 100

Oilless Lifter Guide Post Bushing

This is a knock - in type lifter guide bushing for transfer dies.



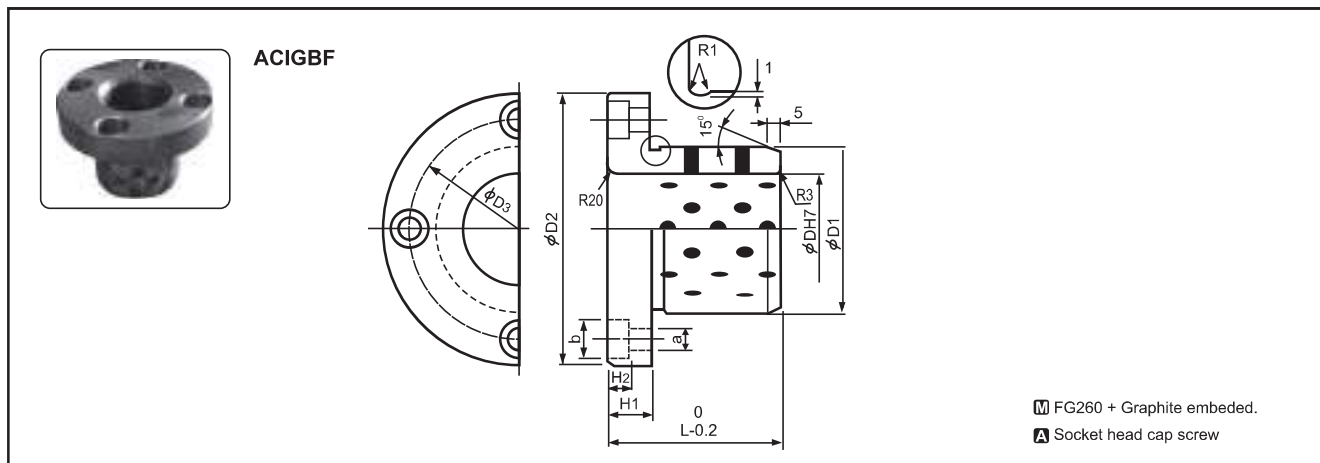
Standard No.	Material	ϕd	ϕD	$\phi D1$	L	ℓ
ABGPB - B1 - 30X 60	Copper Alloy	30	50 ± 0.008	49	60	10
ABGPB - B1 - 40X 80		40	60 ± 0.0095	59	80	15
ABGPB - B1 - 50X100		50	70 ± 0.0095	69	100	15
ACIGPB - F1 - 30X 60	FG260	30	50 ± 0.008	49	60	10
ACIGPB - F1 - 40X 80		40	60 ± 0.0095	59	80	15
ACIGPB - F1 - 50X100		50	70 ± 0.0095	69	100	15



ORDERING
CODE

CATALOG NO.
ACIGPB-F1 50

Oil-free Guide Bushes with Flange



D2	D3	D1	DH7	L	H1	H2	a	b	A Mounting Bolts	Catalog No.	
										Type	D
90	70	50	± 0.008	30	$+0.021$ 0	50	20	10.8	11	17.5	Allen Bolt M10-30 Q,ty : 4
100	80	60	± 0.0095	40	$+0.025$ 0	65					
125	100	75		50		80					
135	110	85	± 0.011	60	$+0.030$ 0	100					
170	140	110		80		130	25	13	14	20	CB12-40 Q,ty : 4
190	160	130	± 0.0125	100	$+0.035$ 0	160					



ORDERING
CODE

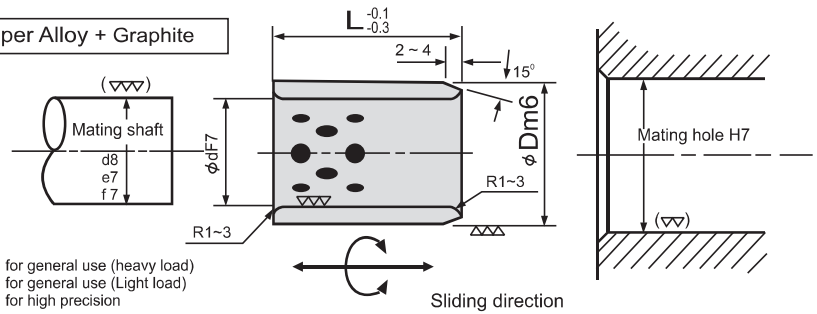
CATALOG NO.
ACIGBF 80

Oilless Plain Bushing



ABPB

Material : Copper Alloy + Graphite



Standard No.	Dimension					Washer
	I.D.	φ d F7	O.D.	φ D m6	L ^{-0.1} / _{-0.3}	
ABPB- 081208	8	+ 0.028 +0.013	12	+ 0.018 +0.007	8	ABW-10
ABPB- 081210					10	
ABPB- 081212					12	
ABPB- 081215					15	
ABPB- 101408	10	+ 0.028 +0.013	14	+ 0.018 +0.007	8	ABW-10
ABPB- 101410					10	
ABPB- 101412					12	
ABPB- 101415					15	
ABPB- 101420	12	+ 0.034 +0.016	18	+ 0.021 +0.008	20	ABW-12
ABPB- 121810					10	
ABPB- 121812					12	
ABPB- 121815					15	
ABPB- 121816					16	
ABPB- 121820					20	
ABPB- 121825					25	
ABPB- 121830					30	
ABPB- 131910	13	+ 0.034 +0.016	19	+ 0.021 +0.008	10	ABW-13
ABPB- 131915					15	
ABPB- 131916					16	
ABPB- 131920					20	
ABPB- 142010	14	+ 0.034 +0.016	20	+ 0.021 +0.008	10	ABW-14
ABPB- 142012					12	
ABPB- 142015					15	
ABPB- 142020					20	
ABPB- 142025					25	
ABPB- 142030					30	
ABPB- 152110	15	+ 0.034 +0.016	21	+ 0.021 +0.008	10	ABW-15
ABPB- 152112					12	
ABPB- 152115					15	
ABPB- 152116					16	
ABPB- 152120					20	
ABPB- 152125					25	
ABPB- 152130					30	
ABPB- 162210	16	+ 0.034 +0.016	22	+ 0.021 +0.008	10	ABW-16
ABPB- 162212					12	
ABPB- 162215					15	
ABPB- 162216					16	
ABPB- 162220					20	
ABPB- 162225					25	
ABPB- 162230					30	
ABPB- 162235					35	
ABPB- 162240	17	+ 0.034 +0.016	23	+ 0.021 +0.008	40	ABW-18
ABPB- 172315					15	

Standard No.	Dimension					Washer
	I.D.	ϕ d F7	O.D.	ϕ D m6	L ^{-0.1} _{-0.3}	
ABPB- 182412	18	+ 0.034 + 0.016	24		12	ABW-18
ABPB- 182415					15	
ABPB- 182416					16	
ABPB- 182420					20	
ABPB- 182425					25	
ABPB- 182430					30	
ABPB- 182435					35	
ABPB- 182440					40	
ABPB- 192615	19		26		15	——
ABPB- 192620					20	
ABPB- 202810	20	+ 0.041 +0.020	28	+ 0.021 +0.008	10	ABW-20
ABPB- 202812					12	
ABPB- 202815					15	
ABPB- 202816					16	
ABPB- 202820					20	
ABPB- 202825					25	
ABPB- 202830			30			
ABPB- 202835			35			
ABPB- 202840			40			
ABPB- 202850			50			
ABPB- 203016			30		16	
ABPB- 203020					20	
ABPB- 203025					25	
ABPB- 203030					30	
ABPB- 203035	35					
ABPB- 203040	40					
ABPB- 223212	22		32		12	——
ABPB- 223215					15	
ABPB- 223220					20	
ABPB- 223225					25	
ABPB- 253312	25	+ 0.041 + 0.020	33	+ 0.025 + 0.009	12	ABW-25
ABPB- 253315					15	
ABPB- 253316					16	
ABPB- 253320					20	
ABPB- 253325					25	
ABPB- 253330					30	
ABPB- 253335			35			
ABPB- 253340			40			
ABPB- 253350			50			
ABPB- 253360			60			
ABPB- 253512			35		12	
ABPB- 253515					15	
ABPB- 253516					16	
ABPB- 253520					20	
ABPB- 253525					25	
ABPB- 253530					30	
ABPB- 253535	35					
ABPB- 253540	40					
ABPB- 253550	50					

Oilless Plain Bushing

Standard No.	Dimension				Washer
	I.D.	ϕ d F7	O.D. ϕ D m6	L $\begin{smallmatrix} -0.1 \\ -0.3 \end{smallmatrix}$	
ABPB- 283820	28			20	—
ABPB- 283825				25	
ABPB- 283830				30	
ABPB- 283840				40	
ABPB- 303812	30	$\begin{smallmatrix} + 0.041 \\ \pm 0.020 \end{smallmatrix}$	38	12	ABW-30
ABPB- 303815				15	
ABPB- 303820				20	
ABPB- 303825				25	
ABPB- 303830				30	
ABPB- 303835				35	
ABPB- 303840				40	
ABPB- 303850				50	
ABPB- 303860			60		
ABPB- 304020			40	20	
ABPB- 304025				25	
ABPB- 304030				30	
ABPB- 304035				35	
ABPB- 304040				40	
ABPB- 304050				50	
ABPB- 304060				60	
ABPB- 314030	31.5	$\begin{smallmatrix} + 0.050 \\ + 0.025 \end{smallmatrix}$		40	30
ABPB- 314040	32		42	40	
ABPB- 324230				30	
ABPB- 324240				40	
ABPB- 354425	35	$\begin{smallmatrix} + 0.050 \\ + 0.025 \end{smallmatrix}$	44	25	ABW-35
ABPB- 354430				30	
ABPB- 354435				35	
ABPB- 354440				40	
ABPB- 354450				50	
ABPB- 354460				60	
ABPB- 354520			45	20	
ABPB- 354525				25	
ABPB- 354530				30	
ABPB- 354535				35	
ABPB- 354540				40	
ABPB- 354550				50	
ABPB- 354560				60	
ABPB- 384830	38		48	30	—
ABPB- 384840				40	
ABPB- 405020	40	$\begin{smallmatrix} + 0.050 \\ + 0.025 \end{smallmatrix}$	50	20	ABW-40
ABPB- 405025				25	
ABPB- 405030				30	
ABPB- 405035				35	
ABPB- 405040				40	
ABPB- 405050				50	
ABPB- 405060				60	
ABPB- 405070				70	
ABPB- 405080			80		
ABPB- 405525			55	25	
ABPB- 405530				30	
ABPB- 405535				35	
ABPB- 405540				40	
ABPB- 405550				50	
ABPB- 405560				60	

Standard No.	Dimension				Washer
	I.D.	ϕ d F7	O.D. ϕ D m6	L $\frac{-0.1}{-0.3}$	
ABPB- 455530	45	$+ 0.050$ $+ 0.025$	55	30	ABW-45
ABPB- 455535				35	
ABPB- 455540				40	
ABPB- 455550				50	
ABPB- 455560				60	
ABPB- 455630			56	30	
ABPB- 455635				35	
ABPB- 455640				40	
ABPB- 455650				50	
ABPB- 455660			60	60	
ABPB- 456030				30	
ABPB- 456035				35	
ABPB- 456040				40	
ABPB- 456050				50	
ABPB- 456060				60	
ABPB- 456070				70	
ABPB- 456080				80	
ABPB- 506030	50	$+ 0.050$ $+ 0.025$	60	30	ABW-50
ABPB- 506035				35	
ABPB- 506040				40	
ABPB- 506050				50	
ABPB- 506060				60	
ABPB- 506070				70	
ABPB- 506080			62	80	
ABPB- 506230				30	
ABPB- 506235				35	
ABPB- 506240				40	
ABPB- 506250				50	
ABPB- 506260				60	
ABPB- 506270				70	
ABPB- 506530	55	$+ 0.060$ $+ 0.030$	65	30	ABW-55
ABPB- 506540				40	
ABPB- 506550				50	
ABPB- 506560				60	
ABPB- 506570				70	
ABPB- 506580				80	
ABPB-5065100				100	
ABPB- 557040			70	40	
ABPB- 557050				50	
ABPB- 557060				60	
ABPB- 557070				70	
ABPB- 607430	60	$+ 0.060$ $+ 0.030$	74	30	ABW-60
ABPB- 607435				35	
ABPB- 607440				40	
ABPB- 607450				50	
ABPB- 607460				60	
ABPB- 607470				70	
ABPB- 607480				80	
ABPB- 607530			75	30	
ABPB- 607535				35	
ABPB- 607540				40	
ABPB- 607550				50	
ABPB- 607560				60	
ABPB- 607570				70	
ABPB- 607580				80	
ABPB-6075100				100	
ABPB- 637560	63	$+ 0.060$ $+ 0.030$	75	60	—
ABPB- 637570				70	
ABPB- 637580				80	
ABPB- 658050			80	50	
ABPB- 658060				60	
ABPB- 658070				70	
ABPB- 608080				80	

Oilless Plain Bushing

Standard No.	Dimension				Washer	
	I.D.	φ d F7	O.D.	φ D m6		L _{-0.1 -0.3}
ABPB- 708535	70	+ 0.060 + 0.030	85	+ 0.035 + 0.013	35	ABW-70
ABPB- 708540					40	
ABPB- 708550					50	
ABPB- 708560					60	
ABPB- 708570					70	
ABPB- 708580					80	
ABPB- 7085100					100	
ABPB- 709050					50	
ABPB- 709060					60	
ABPB- 709070					70	
ABPB- 709080	80	90				
ABPB- 759060	75				60	ABW-75
ABPB- 759070					70	
ABPB- 759080					80	
ABPB- 7590100		100				
ABPB- 759560	75		95		60	ABW-75
ABPB- 759570					70	
ABPB- 759580					80	
ABPB- 7595100					100	
ABPB- 809640	80	+ 0.060 + 0.030	96	+ 0.035 + 0.013	40	ABW-80
ABPB- 809650					50	
ABPB- 809660					60	
ABPB- 809670					70	
ABPB- 809680			80			
ABPB- 8096100			100			
ABPB- 8096120			120			
ABPB- 8010040			100		40	
ABPB- 8010050					50	
ABPB- 8010060					60	
ABPB- 8010070					70	
ABPB- 8010080					80	
ABPB- 80100100					100	
ABPB- 80100120					120	
ABPB- 80100140	140					

Standard No.			Dimension			Washer	
	I.D.	φ d F7	O.D.	φ D m6	L ^{-0.1} _{-0.3}		
ABPB- 8510080	85		100	+ 0.035 + 0.013	80	—	
ABPB- 9011030	90		110			30	ABW-90
ABPB- 9011050						50	
ABPB- 9011060						60	
ABPB- 9011070						70	
ABPB- 9011080						80	
ABPB- 90110100						100	
ABPB- 90110120						120	
ABPB- 10012060	100		120		60	ABW-100	
ABPB- 10012070					70		
ABPB- 10012080					80		
ABPB- 100120100					100		
ABPB- 100120120					120		
ABPB- 100120140					140		
ABPB- 11013080	110	130		80	—		
ABPB- 110130100				100			
ABPB- 110130120				120			
ABPB- 12014080	120	140		80	ABW-120		
ABPB- 120140100				100			
ABPB- 120140120				120			
ABPB- 120140140				140			
ABPB- 125145100	125	145	+ 0.040 + 0.015	100	—		
ABPB- 125145120				120			
ABPB- 130150100	130	150		100	—		
ABPB- 130150130				130			
ABPB- 140160100	140	160		100	—		
ABPB- 140160140				140			
ABPB- 150170100	150	170		100	—		
ABPB- 150170150				150			
ABPB- 160180100	160	180		100	—		
ABPB- 160180150				150			



ORDERING
CODE

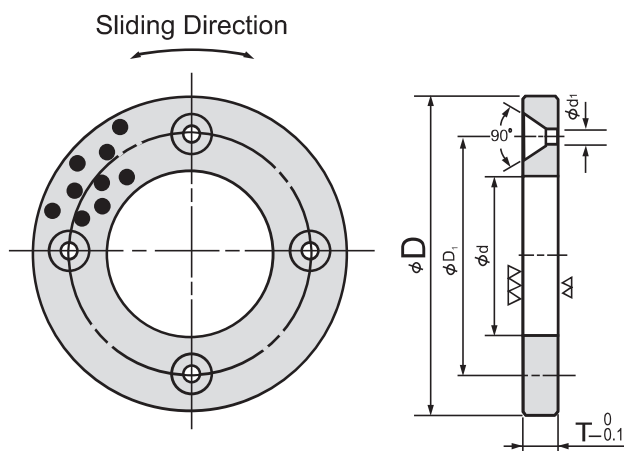
CATALOG NO.	d	D	L
ABPB	30	38	60

Oilless Washer



ABW

Material : Copper Alloy + Graphite



Standard No.	ϕ d	ϕ D	T 0 -0.1	Bolt				
				ϕ D ₁	Q'ty	Size	ϕ d ₁	
ABW - 10	10.2	30	3	—	—	—	—	
ABW - 12	12.2	40		28	2	M 3	3.5	
ABW - 13	13.2							
ABW - 14	14.2							
ABW - 15	15.2							
ABW - 16	16.2	50		—	—	—	—	
ABW - 16N				35	2	M 3	3.5	
ABW - 18						M 5	6	
ABW - 20	20.2			—	—	—	—	
ABW - 20N				40	2	M 5	6	
ABW - 25	25.2		55	5	—	—	—	—
ABW - 25N					45	2	M 5	6
ABW - 30	30.2	60						
ABW - 35	35.2	70						
ABW - 40	40.2	80	7	60	M 6	7		
ABW - 45	45.3	90		67.5				
ABW - 50	50.3	100	8	75			4	M 8
ABW - 55	55.3	110		85				
ABW - 60	60.3	120		90				
ABW - 65	65.3	125		95				
ABW - 70	70.3	130	10	100	M10	11		
ABW - 75	75.3	140		110				
ABW - 80	80.3	150		120				
ABW - 90	90.5	170		140				
ABW-100	100.5	190		160				
ABW-120	120.5	200		175				



ORDERING
CODE

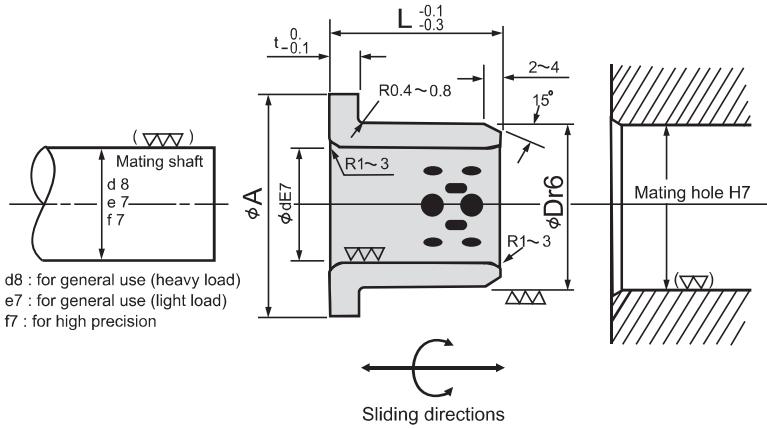
CATALOG NO.

ABW 40

Oilless Flanged Bushing

ABFB

Material : Copper Alloy + Graphite



Standard No.	ϕ d E7		ϕ D r6		ϕ A	t ₀ -0.1	L _{-0.1} -0.3		
ABFB - 10X15	10	+0.040 +0.025	14	+0.034 +0.023	22	2	15		
ABFB - 10X20							20		
ABFB - 12X15	12	+0.050 +0.032	18		25	3	15		
ABFB - 12X20							20		
ABFB - 13X15	13		19	26	15				
ABFB - 13X20							20		
ABFB - 14X15	14			20	27		15		
ABFB - 14X20								20	
ABFB - 15X15	15		21		28		15		
ABFB - 15X20								20	
ABFB - 15X25							25		
ABFB - 15X30							30		
ABFB - 16X15	16		22	+0.041 +0.028	29			15	
ABFB - 16X20									20
ABFB - 16X25									25
ABFB - 16X30									30
ABFB - 20X15	20	+0.061 +0.040	30		40	5	15		
ABFB - 20X20								20	
ABFB - 20X25								25	
ABFB - 20X30								30	
ABFB - 20X40								40	
ABFB - 25X15	25		35	+0.050 +0.034	45		15		
ABFB - 25X20								20	
ABFB - 25X25								25	
ABFB - 25X30								30	
ABFB - 25X40								40	
ABFB - 30X20	30		+0.061 +0.040	40			50	20	
ABFB - 30X25									25
ABFB - 30X30									30
ABFB - 30X35									35
ABFB - 30X40									40
ABFB - 30X50									50

Standard No.	ϕ d	E7	ϕ D	r6	ϕ A	t ₀ ⁰ _{0.1}	L _{-0.1} ^{-0.3}					
ABFB - 31X 20	31.5	+0.075 +0.050	40	+0.050 +0.034	50	5	20					
ABFB - 31X 35							35					
ABFB - 35X 20	35		45		60		20					
ABFB - 35X 30							30					
ABFB - 35X 40							40					
ABFB - 35X 50							50					
ABFB - 40X 20	40		50		65		20					
ABFB - 40X 30							30					
ABFB - 40X 40							40					
ABFB - 40X 50							50					
ABFB - 45X 30	45		55	+0.060 +0.041	70		30					
ABFB - 45X 40							40					
ABFB - 45X 50							50					
ABFB - 45X 60							60					
ABFB - 50X 30	50	+0.075 +0.050	60	+0.060 +0.041	75	30						
ABFB - 50X 40						40						
ABFB - 50X 50						50						
ABFB - 50X 60						60						
ABFB - 55X 40	55		+0.090 +0.060		65	80	40					
ABFB - 55X 60							60					
ABFB - 60X 40							60	75	+0.062 +0.043	90	40	
ABFB - 60X 50											50	
ABFB - 60X 80	80											
ABFB - 63X 67	67.5											
ABFB - 70X 50	70			+0.073 +0.051	85	105	7.5	50				
ABFB - 70X 80								80				
ABFB - 75X 60								75	90	110	10	60
ABFB - 80X 60												80
ABFB - 80X 80	100											
ABFB - 80X100	100											
ABFB - 90X 60	90	+0.107 +0.072			110	+0.076 +0.054	130	60				
ABFB - 90X 80								80				
ABFB - 100X 80					100			120	150	80		
ABFB- 100X100										100		
ABFB- 120X 80	120		140		+0.088 +0.063	170	80					
ABFB- 120X100							100					



ORDERING
CODE

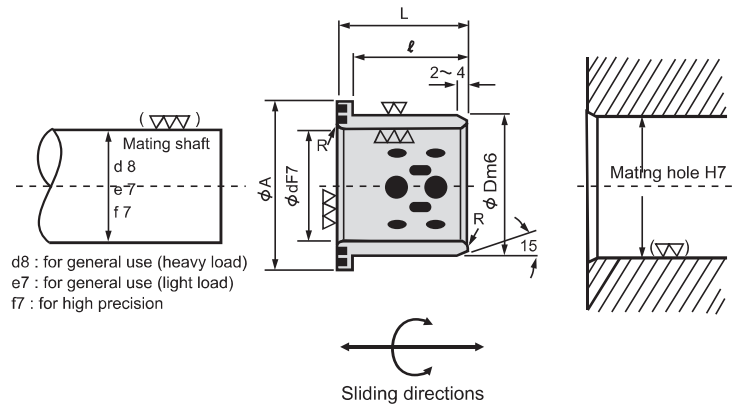
CATALOG NO.	d	L
ABFB	50	60

Oilless Thrust Bushing



ABTB

Material : Copper Alloy + Graphite



Standard No.	ϕd F7		ϕD m6		ϕA	ℓ	L
ABTB -12X15	12	+0.034 +0.016	18	+0.018 +0.007	25	11	15
ABTB -16X20	16		22	+0.021 +0.008	30	15	20
ABTB -20X25	20		28		36	20	25
ABTB -25X30	25	+0.041 +0.020	33	+0.025 +0.009	43	25	30
ABTB -30X35	30		38		48	30	35
ABTB -40X45	40	+0.050 +0.025	50		60	40	45
ABTB -50X55	50		62	+0.030 +0.011	75	49	55
ABTB -60X65	60	+0.060 +0.030	75		90	58	65



ORDERING
CODE

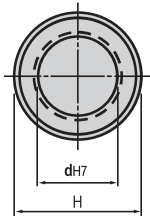
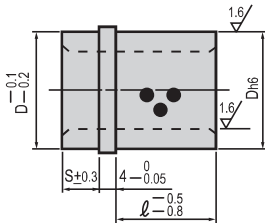
CATALOG NO.	d	L
ABTB	50	55

Ejector Guide Bushing



AEGBZS (Copper Alloy Graphite)

dH7	
13 * 16	$+0.018$ 0
20~30	$+0.021$ 0
35~50	$+0.025$ 0



S	H	Dh6	Type	Catalog No.		l
				d		
10	25	22	AEGBZS	13	10 13 15	13 15
10	28	25		16	13 15	
10	33	30		20	13 15	20
10	38	35		25	15	20
15	43	40		30	20 25	20 25
20	48	45		35	20 25	20 25
20	55	52		40	20 25 30	20 25 30
20	65	62		50	25 30	25 30



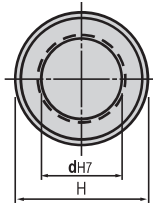
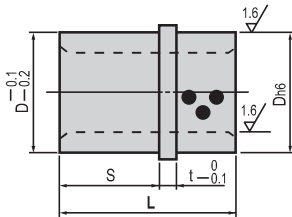
ORDERING
CODE

CATALOG NO.	l
AEGBZS 16	20



AEGBZ Copper Alloy +Graphite (Long S dimension)

dH7	
13 * 16	$+0.018$ 0
20~30	$+0.021$ 0
35~50	$+0.025$ 0



S	H	Dh6	t	Catalog No.		L
				Type	d	
14	25	22	4	AEGBZ	13	25
19	28	25			16	25
14						33
19	33	30			20	25
24						33
14						38
19	38	35				43
24					25	25
14						33
19						38
24			8	AEGBZ	30	38
19	38	35			25	43 53
24						33
19						38
24	43	40			35	43
29						53
24						38
29	48	45			40	43
39						53
24						68
29	61	55		AEGBZ	50	43
39						53
29	71	65				68
39						53
39						68

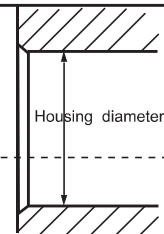
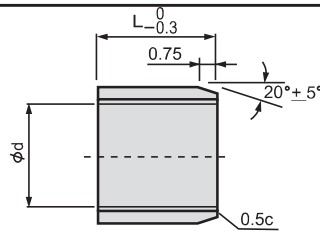
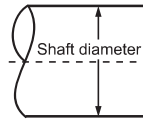


ORDERING
CODE

CATALOG NO.	L
AEGBZ 20	33



ABM



Standard No.	Major size		Recommended size			
	I.D. ϕd	Length L -0.3	Housing		Shaft	
			I.D.	H7	O.D.	tolerance
ABM0303	3	3	5	+0.012 0	3	-0.025 -0.034
ABM0304		4				
ABM0305		5				
ABM0306		6				
ABM0404	4	4	6	+0.012 0	4	-0.025 -0.037
ABM0406		6				
ABM0408		8				
ABM0504	5	4	7	+0.012 0	5	-0.025 -0.037
ABM0505		5				
ABM0506		6				
ABM0508		8				
ABM0605	6	5	8	+0.015 0	6	-0.025 -0.040
ABM0606		6				
ABM0607		7				
ABM0608		8				
ABM0610	7	10	9	+0.015 0	7	-0.025 -0.040
ABM0705		5				
ABM0707		7				
ABM0710		10				
ABM0712	8	12	10	+0.018 0	8	-0.025 -0.040
ABM0805		5				
ABM0806		6				
ABM0807		7				
ABM0808	10	8	12	+0.018 0	10	-0.025 -0.043
ABM0810		10				
ABM0812		12				
ABM1006		6				
ABM1007	12	7	14	+0.018 0	12	-0.025 -0.046
ABM1008		8				
ABM1010		10				
ABM1012		12				
ABM1015	13	15	15	+0.018 0	13	-0.025 -0.043
ABM1020		20				
ABM1206		6				
ABM1208	14	8	16	+0.018 0	14	-0.025 -0.043
ABM1210		10				
ABM1212		12				
ABM1215		15				
ABM1220	15	20	17	+0.018 0	15	-0.025 -0.043
ABM1308		8				
ABM1310		10				
ABM1315		15				
ABM1410	16	10	18	+0.018 0	16	-0.025 -0.043
ABM1412		12				
ABM1415		15				
ABM1420		20				
ABM1508	17	8	19	+0.018 0	17	-0.025 -0.043
ABM1510		10				
ABM1512		12				
ABM1515		15				
ABM1520	18	20	20	+0.018 0	18	-0.025 -0.043
ABM1525		25				
ABM1610		10				
ABM1612		12				
ABM1615	19	15	21	+0.018 0	19	-0.025 -0.043
ABM1620		20				
ABM1625		25				

Standard No.	Major size		Recommended size			
	I.D. ϕd	Length L -0.3	Housing		Shaft	
			I.D.	H7	O.D.	tolerance
ABM1810	18	10	20	+0.021 0	18	-0.025 -0.043
ABM1812		12				
ABM1815		15				
ABM1820		20				
ABM1825	20	25	23	+0.021 0	20	-0.025 -0.046
ABM2010		10				
ABM2012		12				
ABM2015		15				
ABM2020	22	20	25	+0.021 0	22	-0.025 -0.046
ABM2025		25				
ABM2030		30				
ABM2210		10				
ABM2212	24	12	27	+0.021 0	24	-0.025 -0.046
ABM2215		15				
ABM2220		20				
ABM2225		25				
ABM2230	25	30	28	+0.021 0	25	-0.025 -0.046
ABM2415		15				
ABM2420		20				
ABM2425		25				
ABM2430	26	30	30	+0.025 0	26	-0.025 -0.046
ABM2510		10				
ABM2512		12				
ABM2515		15				
ABM2520	28	20	32	+0.025 0	28	-0.025 -0.046
ABM2525		25				
ABM2530		30				
ABM2535		35				
ABM2540	30	40	34	+0.025 0	30	-0.025 -0.046
ABM2615		15				
ABM2620		20				
ABM2630		30				
ABM2812	32	12	36	+0.025 0	32	-0.025 -0.046
ABM2815		15				
ABM2820		20				
ABM2825		25				
ABM2830	35	30	39	+0.025 0	35	-0.025 -0.050
ABM3012		12				
ABM3015		15				
ABM3020		20				
ABM3025	36	25	40	+0.025 0	36	-0.025 -0.050
ABM3030		30				
ABM3035		35				
ABM3040		40				
ABM3220	38	20	42	+0.025 0	38	-0.025 -0.050
ABM3225		25				
ABM3230		30				
ABM3240		40				
ABM3512	40	12	44	+0.025 0	40	-0.025 -0.050
ABM3520		20				
ABM3525		25				
ABM3530		30				
ABM3535	42	35	46	+0.025 0	42	-0.025 -0.050
ABM3540		40				
ABM3550		50				

Standard No.	Major size		Recommended size			
	I.D. ød	Length L +0 -0.3	Housing		Shaft	
			I.D.	H7	O.D.	tolerance
ABM3820	38	20	42		38	
ABM3825		25				
ABM3830		30				
ABM3835		35				
ABM3840	40	40	44	+0.025 0	40	
ABM4012		12				
ABM4015		15				
ABM4020		20				
ABM4025	40	25	44	+0.025 0	40	
ABM4030		30				
ABM4035		35				
ABM4040		40				
ABM4050	45	50	50		45	-0.025 -0.050
ABM4520		20				
ABM4525		25				
ABM4530		30				
ABM4535	45	35	50		45	-0.025 -0.050
ABM4540		40				
ABM4550		50				
ABM5015	50	15	55		50	
ABM5020		20				
ABM5025		25				
ABM5030		30				
ABM5035	50	35	55		50	
ABM5040		40				
ABM5050		50				
ABM5060		60				
ABM5525	55	25	60	+0.030 0	55	-0.025 -0.055
ABM5530		30				
ABM5535		35				
ABM5540		40				
ABM5550	60	50	65		60	
ABM5560		60				
ABM6030		30				
ABM6035		35				
ABM6040	60	40	65		60	
ABM6060		60				

Standard No.	Major size		Recommended size			
	I.D. ød	Length L +0 -0.3	Housing		Shaft	
			I.D.	H7	O.D.	tolerance
ABM6530	65	30	70		65	
ABM6540		40				
ABM6550		50				
ABM6560		60				
ABM7030	70	30	75	+0.030 0	70	-0.035 -0.005
ABM7035		35				
ABM7040		40				
ABM7050		50				
ABM7060	75	60	80		75	
ABM7080		80				
ABM7530		30				
ABM7535	75	35	80		75	
ABM7540		40				
ABM7550		50				
ABM7560		60				
ABM7580	80	80	85		80	
ABM8040		40				
ABM8050		50				
ABM8060		60				
ABM8080	90	80	95	+0.035 0	90	
ABM9035		35				
ABM9040		40				
ABM9060		60				
ABM9090	100	90	105		100	
ABM10050		50				
ABM10070		70				
ABM10095		95				
ABM10550	105	50	110		105	+0.035 0
ABM10590		90				
ABM11050	110	50	115		110	
ABM11070		70				
ABM11095		95				
ABM12050	120	50	125	+0.040 0	120	
ABM12070		70				
ABM12095		95				
ABM15050	150	50	155		150	+0.035 -0.005
ABM15080		80				

Drystar is a double layer bearing, comprising bronze bearing sintered on steel base material & low friction PTFE & lead mixture impregnated. It has excellent wear resistance resulting from improved self lubrication.

The material gives high mechanical strength & less dimensional changes due to thermal expansion because material has copper backup.

- **Allowable load upto :** 60 N/mm² (Static load) Rotates, Oscillates & Slides.
150 N/mm² (static load) Moves very slow.
15-30 N/mm² (Dynamic load)
- **Coefficient of friction :** 0.04 upto 0.018
- **Allowable temperature range :** 200~280 °c
- **Compression Strength :** 300N/mm²
- **Thermal Conductivity :** 42 W/(m.°c)
- **Precautions for handling :**
 - 1) Do not grind the inner surface of outer diameter of the bushing to reduce the size for use.
 - 2) Maintain surface roughness of 3 µm Rmax or more on the mating shaft surface.
 - 3) Offset the bushing joint from the maximum load point.
 - 4) Press fit the bushing perpendicular to the housing.
 - 5) Carry out initial operation. Long life operation can be achieved.



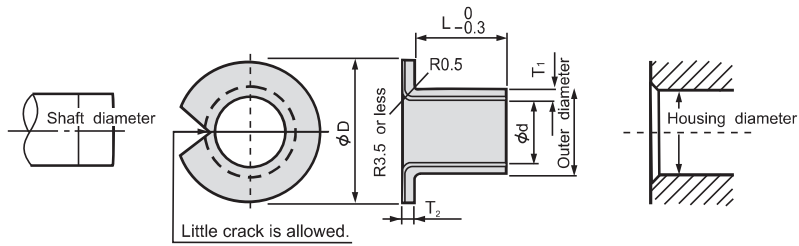
ORDERING
CODE

CATALOG NO.	d	L
ABM	25	20

Drystar (Flanged Bushing)



ABM-F



Standard No.	Major size					Recommended Size		
	I.D. φd	Shaft O.D. φd	Length L	Bush Thickness T1 Tolerance	Flange Thickness T2 Tolerance	Housing I.D. H7	Shaft O.D. Tolerance	
ABM-F0303	3	7	3	0.8 ⁰ _{-0.025}	0.8 ⁰ _{-0.025}	4.6 ^{+0.012} ₀	3 ^{-0.025} _{-0.034}	
ABM-F0404	4	9	4			5.6 ⁰ ₀	4	
ABM-F0504	5	10	4			7	5	-0.025 -0.037
ABM-F0505			5					
ABM-F0605	6	12	5			8	6	
ABM-F0606			6					
ABM-F0607			7					
ABM-F0705	7	13	5			9	7	
ABM-F0707			7					
ABM-F0806	8	15	6			10	8	
ABM-F0808			8					
ABM-F1006	10	18	6	1.0 ⁰ _{-0.025}	1.0 ⁰ _{-0.15}	12	10	-0.025 -0.040
ABM-F1007			7					
ABM-F1008			8					
ABM-F1010			10					
ABM-F1012			12					
ABM-F1015			15					
ABM-F1206	12	20	6			14	12	
ABM-F1208			8					
ABM-F1210			10					
ABM-F1212			12					
ABM-F1215			15					
ABM-F1410	14	22	10			16	14	
ABM-F1412			12					
ABM-F1415			15					
ABM-F1510	15	23	10			17	15	-0.025 -0.043
ABM-F1512			12					
ABM-F1515			15					
ABM-F1520			20					
ABM-F1615	16	24	15			18	16	
ABM-F1620			20					
ABM-F1810	18	26	10			20	18	
ABM-F1812			12					
ABM-F1815			15					
ABM-F1820			20					
ABM-F2010	20	31	10	1.5 ⁰ _{-0.030}	1.5 ⁰ _{-0.15}	23	20	-0.025 -0.046
ABM-F2012			12					
ABM-F2015			15					
ABM-F2020			20					
ABM-F2025			25					

Standard No.	Major size					Recommended Size		
	I.D. φ d	Shaft O.D. φ d	Length L mm	Bush Thickness T1 Tolerance	Flange Thickness T2 Tolerance	Housing		Shaft
						I.D.	H7	O.D. Tolerance
ABM-F2210	22	33	10	1.5 ⁰ _{-0.030}	1.5 ⁰ _{-0.15}	25		22
ABM-F2212			12					
ABM-F2215			15					
ABM-F2220			20					
ABM-F2415	24	35	15			27	+0.021 ₀	24
ABM-F2420			20					
ABM-F2425			25					
ABM-F2510			25					
ABM-F2512	12							
ABM-F2515	15							
ABM-F2520	20							
ABM-F2525	25	-0.025 -0.046						
ABM-F2615	26		38			15	30	26
ABM-F2620						20		
ABM-F2812	28		40			12	32	28
ABM-F2815		15						
ABM-F2820		20						
ABM-F3012	30	42	12	2.0 ⁰ _{-0.030}	2.0 ⁰ _{-0.15}	34	30	
ABM-F3015			15					
ABM-F3020			20					
ABM-F3025			25					
ABM-F3030	31	45	30			35	31	
ABM-F3125			25					
ABM-F3220	32	46	20			36	32	
ABM-F3225			25					
ABM-F3230			30					
ABM-F3512	35	49	12			39	+0.025 ₀	35
ABM-F3520			20					
ABM-F3525			25					
ABM-F3530			30					
ABM-F3540	38	52	40			42	38	-0.025 -0.050
ABM-F3820			20					
ABM-F4012	40	54	12			44	40	
ABM-F4020			20					
ABM-F4025			25					
ABM-F4030			30					
ABM-F4040	45	60	40	50	45			
ABM-F4520			20					
ABM-F4525			25					
ABM-F4030			30					
ABM-F4540	50	65	40	55	50			
ABM-F5020			20					
ABM-F5025			25					
ABM-F5040			40					
ABM-F5530	55	70	30	60	+0.030 ₀	55		
ABM-F5540			40					
ABM-F6030	60	75	30	65	60	-0.025 -0.055		
ABM-F6040			40					



ORDERING
CODE

CATALOG NO.

d

L

ABM-F 25 20