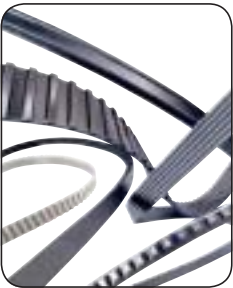


SKF Power Transmission products





SKF Bushings

SKF bushing range nomenclature has a defined prefix of PHF. The bushing range is covered by limited standards, but main SKF range is interchangeable with other brands.

Bushings

The bushing range designation from SKF has the following is an example to indicate set up.

SKF Designation prefix

PHF TB2517 X55MM

Bushing size and type

Example:

TB2517 – taper bushing size 2517

M – QD series M

FX10 – FX friction bush series 10

Supplementary

Bore sizes and dimensions

QD & taper bushing

X55MM – 55mm bore diameter standard keyway

-2-3/4 – inch shaft 2-3/4 with standard keyway

50X80 – FX bushing bore and OD dimensions

Note

See SKF product training for full supplementary notations

Bushings and Hubs (PHF Product Group)

SKF Taper bushings, QD bushings, Weld-on and Bolt-on hubs are manufactured according to established market standards and are fully interchangeable with other brands.

Metric bore keyway machined according to BS 4235: Part 1 and DIN 6885.

Imperial bore keyway machined according to BS 46: Part 1.

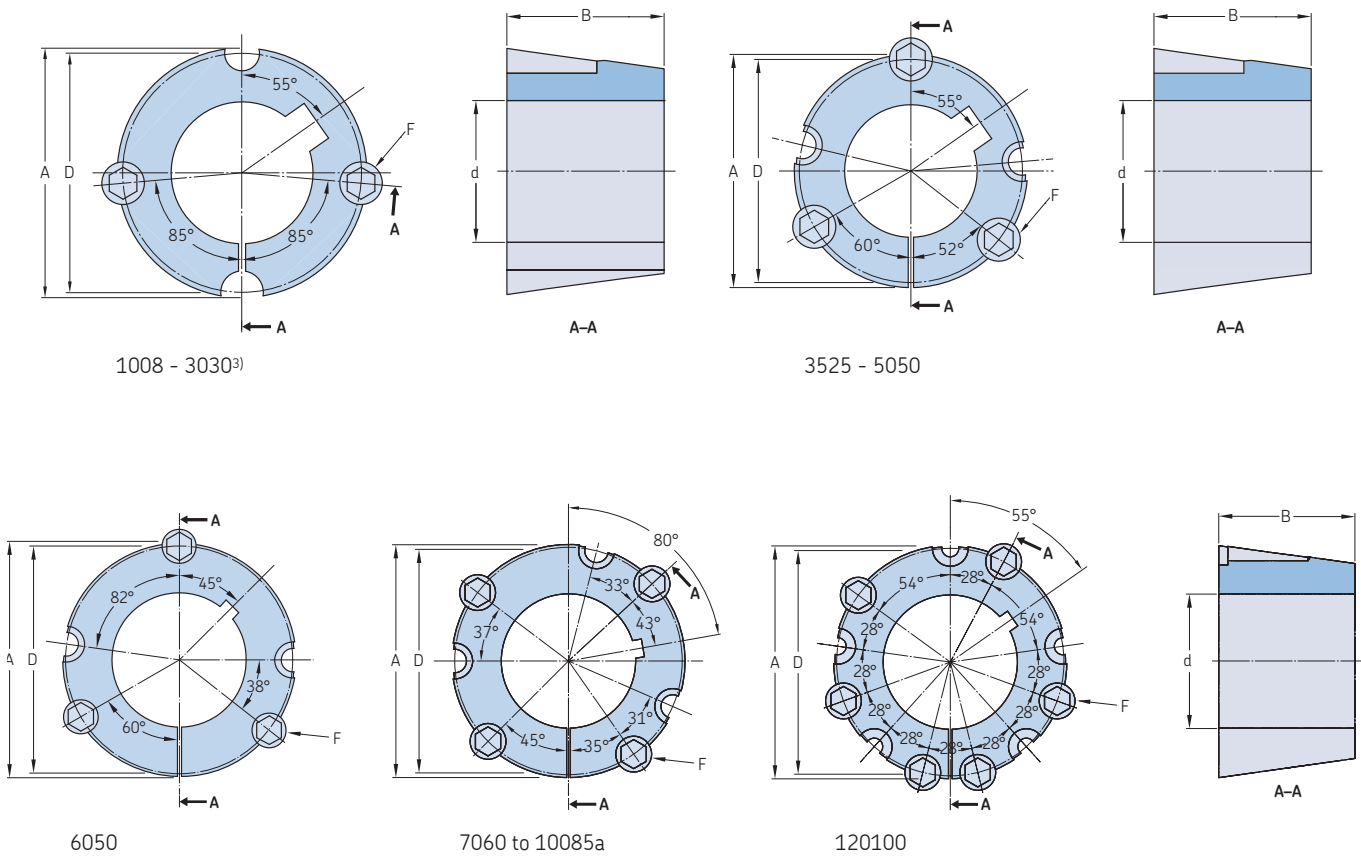
Phosphate coating and blackening are used to improved corrosion resistance, excluding FX bushings.

Main materials used in bushings and hubs

Taper bushing	Grey cast iron HT250
QD bushing	Grey cast iron HT250
Weld on and Bolt on hubs	Grey cast iron HT250
FX Bushings	C45 Steel

Taper bushings

Bushing number 1008 – 120100



Bushing number	Bore		Dimensions							Mass	Designation
	d		A	B	D	E	F ²⁾				
	Min.	Max.							kg	-	
	mm	in.	mm	in.	mm						
1008	9	3/8	25	1	35,2	22,2	33,7	-	6,350 x 12,700	0,05	PHF TB1008X...
1108	9	3/8	28	1 1/8	38,4	22,2	36,9	-	6,350 x 12,700	0,08	PHF TB1108X...
1210	11	1/2	32	1 1/4	47,6	25,4	44,5	-	9,525 x 15,875	0,19	PHF TB1210X...
1215	11	1/2	32	1 1/4	47,6	38,1	44,5	-	9,525 x 15,875	0,27	PHF TB1215X...
1610	14	1/2	42	1 3/8	57,2	25,4	54,0	-	9,525 x 15,875	0,31	PHF TB1610X...
1615	14	1/2	42	1 3/8	57,2	38,1	54,0	-	9,525 x 15,875	0,46	PHF TB1615X...
2012	14	1/2	50	2	69,9	31,8	66,7	-	11,113 x 22,225	0,65	PHF TB2012X...
2017	14	1/2	50	2	69,9	44,5	66,7	-	11,113 x 22,225	0,91	PHF TB2017X...
2517 ³⁾	16	1/2	60	2 1/2	85,7	44,5	82,6	-	12,700 x 25,400	1,47	PHF TB2517X...
2525	16	1/2	60	2 1/2	85,7	63,5	82,6	-	12,700 x 25,400	4,30	PHF TB2525X...
3020	25	1	75	3	108,0	50,8	101,6	-	15,875 x 31,750	2,25	PHF TB3020X...
3030	35	1	75	3	108,0	76,2	101,6	-	15,875 x 31,750	3,25	PHF TB3030X...
3525 ³⁾	35	1 1/4	100*	4	127,0	63,5	123,0	-	12,700 x 38,100	4,23	PHF TB3525X...
3535 ³⁾	35	1 1/4	90	3 1/2	127,0	89,0	123,0	-	12,700 x 38,100	5,78	PHF TB3535X...
4030	40	1 3/4	115*	4 1/4	146,0	76,2	141,0	-	15,875 x 44,450	7,00	PHF TB4030X...
4040	40	1 3/4	100	4	146,0	102,0	141,0	-	15,875 x 44,450	9,20	PHF TB4040X...
4535	55	2	125	5	161,0	89,0	156,0	-	19,050 x 50,800	9,10	PHF TB4535X...
4545	55	2	115*	4 1/2	161,0	114,0	156,0	-	19,050 x 50,800	11,80	PHF TB4545X...
5040	70	2 5/8	140	5 1/2	178,0	101,6	171,0	-	22,255 x 57,150	12,26	PHF TB5040X...
5050	70	2 5/8	125	5	178,0	127,0	171,0	-	22,255 x 57,150	15,18	PHF TB5050X...
6050	95	3 7/8	150	6	235,0	127,0	228,6	171,5	31,800 x 88,900	25,00	PHF TB6050X...
7060	110	4 5/8	170	7	260,4	152,4	254,0	196,9	31,800 x 88,900	34,00	PHF TB7060X...
8065	130	5 1/16	190	8	285,8	165,1	279,4	222,3	31,800 x 88,900	45,00	PHF TB8065X...
10085	170	6 9/16	260	10	374,7	215,9	368,3	298,5	38,100 x 114,300	104,00	PHF TB10085X...
120100	200	7 9/16	290	12	438,2	254,0	431,8	362,0	38,100 x 114,300	163,00	PHF TB120100X...

Note: Bushings cannot be bored out larger than listed.
 Bushings are supplied with screws: 1008 - 3030 (2 screws); 3525 - 6050 (3 screws); 7060 - 10085 (4 screws); and 120100 (6 screws).
¹⁾ Bushings are also available with coarse thread (UNC) according to ASME/ANSI standard. To complete designation, add U before bushing number and bore size at the end of designation, e.g. PHF TBU3525X70MM.
²⁾ Screw size x length.
 A is the diameter at the face of the bush and D is the bolt pitch diameter.
 To complete designation, add bore size. For example: PHF TB1215X16MM designates a 1215 taper bushing with a 16 mm bore.
 *Indicates shallow key required (e.g. DIN 6885/3).
³⁾ Sizes 1008 - 3030 may be supplied in either 3 hole or 4 hole. There is no difference in their respective performance characteristics.

Metric bores and keyway

Bore diameter	Keyway Width	Depth	Shallow keyway depth	Bore sizes available															
				1008	1108	1210	1610	1615	2012	2517	3020	3030	3525	3535	4030	4040	4535	4545	5040
9	3	1,4	—	•	•														
10	3	1,4	—	•	•														
11	4	1,8	—	•	•	•													
12	4	1,8	—	•	•	•													
14	5	2,3	—	•	•	•	•	•	•										
15	5	2,3	—	•	•	•	•	•	•										
16	5	2,3	—	•	•	•	•	•	•	•									
18	6	2,8	—	•	•	•	•	•	•	•									
19	6	2,8	—	•	•	•	•	•	•	•									
20	6	2,8	—	•	•	•	•	•	•	•									
22	6	2,8	—	•	•	•	•	•	•	•									
24	8	3,3	1,3	•*	•	•	•	•	•	•									
25	8	3,3	1,3	•*	•	•	•	•	•	•									
28	8	3,3	1,3	•	•*	•	•	•	•	•									
30	8	3,3	—	•	•	•	•	•	•	•									
32	10	3,3	—		•	•	•	•	•	•									
35	10	3,3	—		•	•	•	•	•	•									
38	10	3,3	—		•	•	•	•	•	•									
40	12	3,3	1,3		•	•	•	•	•	•									
42	12	3,3	1,3		•	•*	•	•	•	•									
45	14	3,8	—					•	•	•									
48	14	3,8	—					•	•	•									
50	14	3,8	—					•	•	•									
55	16	4,3	—						•	•									
60	18	4,4	—						•	•									
65	18	4,4	—							•									
70	20	4,9	—							•									
75	20	4,9	—							•									
80	22	5,4	—																
85	22	5,4	—																
90	25	5,4	—																
95	25	5,4	—																
100	28	6,4	4,4																
105	28	6,4	—																
110	28	6,4	—																
110	32	7,4	5,4																
120	32	7,4	—																
125	32	7,4	—																
130	32	7,4	—																
140	32	8,4	6,4																

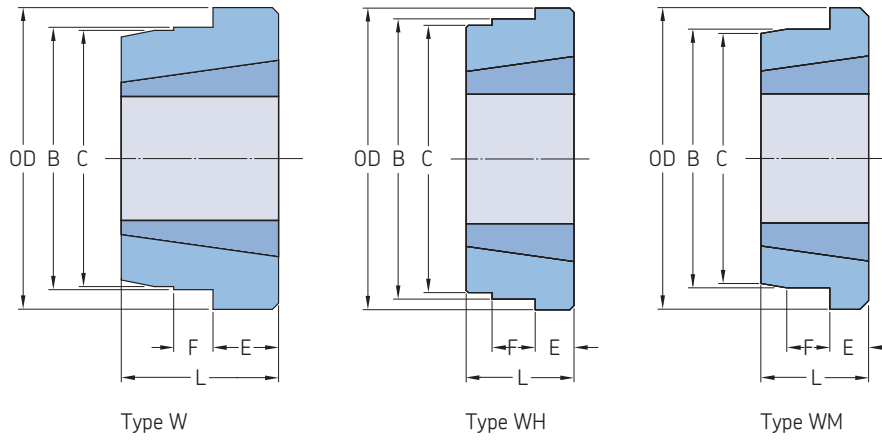
Inch bores and keyway

Bore diameter	Keyway Width	Depth	Shallow keyway depth	Bore sizes available															
				1008	1108	1210	1610	1615	2012	2517	3020	3030	3525	3535	4030	4040	4535	4545	5040
3/8	1/8	1/16	—	•	•														
1/2	1/8	1/16	—	•	•														
5/8	3/32	3/32	—	•	•	•													
3/4	3/32	3/32	—	•	•	•													
7/8	1/4	1/8	—	•	•	•													
1	1/4	1/8	1/16	•*	•	•													
1 1/8	5/16	1/8	3/64		•*	•													
1 1/4	5/16	1/8	—		•	•													
1 3/8	3/8	1/8	—		•	•													
1 1/2	3/8	1/8	—		•	•													
1 5/8	7/16	5/32	1/8			•													
1 3/4	7/16	5/32	—			•													
1 7/8	1/2	3/32	—			•													
2	1/2	5/32	—			•													
2 1/8	5/8	7/32	—			•													
2 1/4	5/8	7/32	—			•													
2 3/8	5/8	7/32	—			•													
2 1/2	5/8	7/32	—			•													
2 5/8	3/4	1/4	—			•													
2 3/4	3/4	1/4	—			•													
2 7/8	3/4	1/4	—			•													
3	3/4	1/4	—			•													
3 1/8	7/8	3/16	—			•													
3 1/4	7/8	3/16	—			•													
3 3/8	7/8	3/16	—			•													
3 1/2	7/8	5/16	—			•													
3 3/4	1	3/8	5/16			•*													
4	1	3/8	7/32			•*													
4 1/4	1 1/4	7/16	—			•													
4 1/2	1 1/4	7/16	1 1/32			•													
4 3/4	1 1/4	7/16	—			•													
5	1 1/4	7/16	1 1/32			•													

* Bushing comes with a shallow keyway.

Weld-on hubs

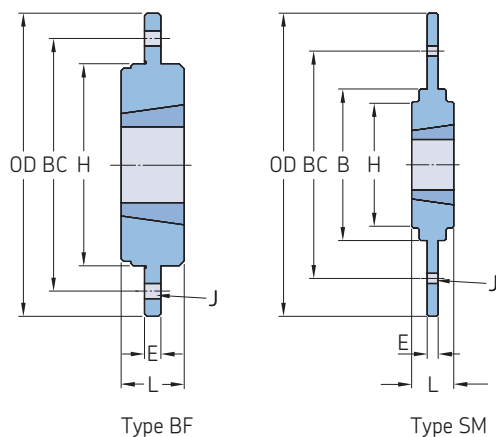
W taper bushed | WH taper bushed | WM taper bushed



Type	Bushing number	Dimensions						Designation	
		OD	B	C	L	E	F		
-	-	mm						-	
W	1215	73,03	63,50	62,71	38,1	15,88	9,53	PHH W12	
	1615	82,55	73,03	72,24	38,1	15,88	9,53	PHH W16	
	2017	101,60	88,90	88,11	44,4	19,05	11,91	PHH W20	
	2517	127,00	111,13	110,34	44,4	19,05	12,70	PHH W25	
	3030	149,86	133,35	132,56	76,2	25,40	19,05	PHH W30	
	3535	184,15	158,75	157,96	88,9	31,75	25,40	PHH W35	
	4040	225,43	196,85	196,06	101,6	31,75	31,75	PHH W40	
	4545	254,00	222,25	221,46	114,3	38,10	38,10	PHH W45	
	WH	1210	70,00	65,00	64,50	25,0	9,00	10,00	PHH WH12
		1610	80,00	75,00	74,50	25,0	9,00	10,00	PHH WH16
2012		95,00	90,00	89,50	32,0	12,00	12,00	PHH WH20	
2517		115,00	110,00	109,50	44,0	19,00	15,00	PHH WH25	
3020		145,00	140,00	139,50	50,0	20,00	15,00	PHH WH30	
3535		190,00	180,00	179,50	89,0	25,00	25,00	PHH WH35-2	
4030		200,00	190,00	189,50	76,0	32,00	30,00	PHH WH40-1	
4040		200,00	190,00	189,50	101,0	32,00	30,00	PHH WH40-2	
4535		210,00	200,00	199,50	89,0	40,00	30,00	PHH WH45-1	
4545		210,00	200,00	199,50	114,0	40,00	30,00	PHH WH45-2	
5040	230,00	220,00	219,50	102,0	40,00	35,00	PHH WH50-1		
5050	230,00	220,00	219,50	127,0	40,00	35,00	PHH WH50-2		
WM	1210	70,00	60,00	58,00	25,0	9,00	10,00	PHH WM12	
	1610	83,00	70,00	68,00	25,0	9,00	10,00	PHH WM16-1	
	1615	83,00	70,00	68,00	38,0	16,00	11,00	PHH WM16-2	
	2012	95,00	90,00	88,00	32,0	12,00	12,00	PHH WM20	
	2517	127,00	110,00	108,00	44,0	19,00	13,00	PHH WM25	
	3020	152,00	130,00	125,00	50,0	20,00	15,00	PHH WM30-1	
	3030	152,00	130,00	125,00	76,0	25,00	19,00	PHH WM30-2	
	3535	184,00	155,00	151,00	89,0	32,00	25,00	PHH WM35	
	4040	225,00	195,00	187,00	102,0	32,00	32,00	PHH WM40	
	4545	254,00	220,00	213,00	114,0	38,00	38,00	PHH WM45	
5050	276,00	242,00	228,00	127,0	38,00	38,00	PHH WM50		

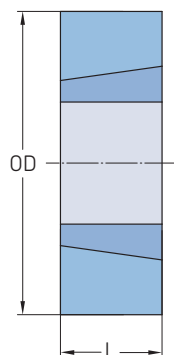
Bolt-on hubs / Adapters

BF taper bushed | SM taper bushed | Taper bushed adapters



Type	Bushing number	Dimensions							Designation
		OD	B	BC	L	E	H	J*	
		mm							
BF	1210	120	80	100	25	6,5	–	6 x 6,6	PHH BF12
	1610	130	90	110	25	6,5	–	6 x 6,6	PHH BF16
	2012	145	100	125	32	8,5	–	6 x 9,0	PHH BF20
	2517	185	130	155	44	11,5	–	6 x 11,0	PHH BF25
	3020	220	165	190	50	11,5	–	6 x 13,0	PHH BF30
SM	1210	180	90	135	25	6,5	75	6 x 7,5	PHH SM12
	1615	200	110	150	38	7,5	85	6 x 7,5	PHH SM16
	2012	270	140	190	32	8,5	110	6 x 9,5	PHH SM20
	2517	340	170	240	45	9,5	125	8 x 11,5	PHH SM25
	3020	430	220	300	51	13,5	160	8 x 13,5	PHH SM30-1
	3020	485	250	340	51	13,5	160	8 x 13,5	PHH SM30-2

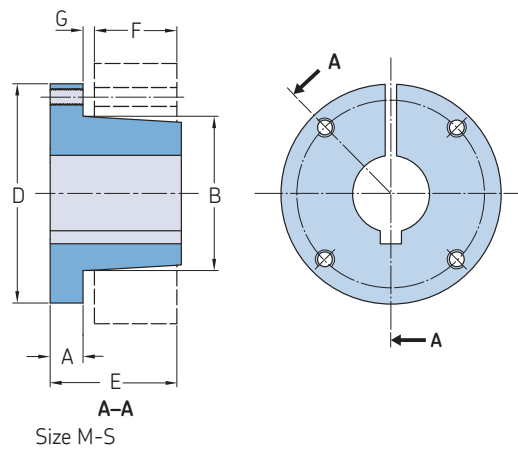
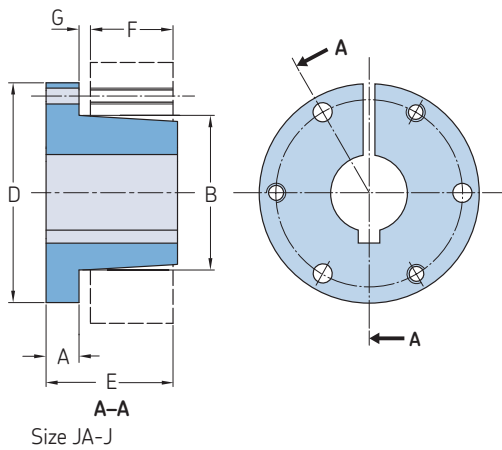
* Number of screw holes x hole diameter.



Taper bushed adapters (obsolete)

Type	Bushing number	Dimensions		Keyway Width	Depth	Designation
		OD	L			
		mm				
1008KM	1008	45	22	5	2,5	PHH TBA1008KM
1008PM	1008	45	22	–	–	PHH TBA1008PM
1210KM	1210	60	25	6	3,0	PHH TBA1210KM
1210PM	1210	60	25	–	–	PHH TBA1210PM
1215KM	1215	60	38	6	3,0	PHH TBA1215KM
1215PM	1215	60	38	–	–	PHH TBA1215PM
1610KM	1610	70	25	10	4,0	PHH TBA1610KM
1610PM	1610	70	25	–	–	PHH TBA1610PM
1615KM	1615	70	38	10	4,0	PHH TBA1615KM
1615PM	1615	70	38	–	–	PHH TBA1615PM
2517KM	2517	105	45	16	4,0	PHH TBA2517KM
2517PM	2517	105	45	–	–	PHH TBA2517PM
3030KM	3030	130	76	20	5,0	PHH TBA3030KM
3030PM	3030	130	76	–	–	PHH TBA3030PM
3535KM	3535	160	89	22	5,0	PHH TBA3535KM
3535PM	3535	160	89	–	–	PHH TBA3535PM
4040KM	4040	185	102	24	5,0	PHH TBA4040KM
4040PM	4040	185	102	–	–	PHH TBA4040PM

QD Bushings



Bushing number	Bore range			Dimensions						Set screw size	Average mass		Designation
	Min.	Standard keyway Max.	Shallow keyway	A	B	D	E	F	G		kg	lbs.	
-	mm										kg	lbs.	-
JA	9,53	25,40	31,75	7,90	35,10	50,80	25,40	14,22	3,05	254,00 - 609,60	0,40	0,9	PHF JA...
SH	12,70	34,92	42,86	10,90	47,80	66,80	33,27	20,57	3,05	6,35	0,50	1,0	PHF SH...
SDS	12,70	42,86	50,80	10,90	55,40	80,80	33,27	19,05	3,05	6,35	0,72	1,0	PHF SDS...
SD	12,70	42,86	49,21	10,90	55,40	80,80	45,97	31,75	3,05	6,35	0,93	1,5	PHF SD...
SK	12,70	53,97	63,50	14,20	71,40	98,60	49,02	31,75	5,58	33,34	0,90	2,0	PHF SK...
SF	12,70	74,61	71,43	16,00	79,50	117,60	52,32	31,75	5,58	33,34	2,23	3,0	PHF SF...
E	22,26	73,02	88,90	22,40	97,30	152,40	69,85	41,02	6,35	9,50	4,62	10,0	PHF E...
F	25,40	100,01	100,01	25,40	112,50	168,40	95,25	63,50	8,64	12,70	5,20	11,5	PHF F...
J	36,51	95,25	114,30	28,70	130,60	184,20	122,68	80,77	9,65	41,27	8,20	18,0	PHF J...
M	74,61	120,65	139,70	31,80	165,10	228,60	171,45	131,57	10,41	19,10	27,00	37,0	PHF M...
N	61,91	130,18	152,40	38,10	177,80	254,00	206,25	158,75	14,22	19,10	37,50	57,0	PHF N...
P	74,61	150,81	177,80	44,50	209,60	298,50	238,25	184,15	16,02	22,20	54,40	120,0	PHF P...
W	101,60	190,50	215,90	50,80	264,70	381,00	289,05	228,60	12,70	25,40	113,40	250,0	PHF W...
S	152,40	209,55	254,00	69,90	308,10	450,90	387,35	304,80	19,05	31,75	181,40	400,0	PHF S...

To complete the designation, add bore size in inch or millimetres (standard bore sizes available on next page).
 E.g.: PHF SDS-1-11/16 and PHF SDS-25MM.

QD Bushings

Dimensions

Inch bores and keyway

Bushing number	Bore	Keyway
–	in.	
JA	$\frac{3}{8} - \frac{7}{8}$ $\frac{1}{2}$ $1 \frac{1}{16} - 1 \frac{1}{8}$ $1 \frac{3}{16}$ $1 \frac{1}{4}$	No keyway STD $\frac{1}{4} \times \frac{1}{16}$ $\frac{1}{4} \times \frac{1}{16}$ No keyway
SH	$\frac{1}{2} - 1 \frac{3}{8}$ $1 \frac{7}{16} - 1 \frac{1}{2}$ $1 \frac{9}{16} - 1 \frac{5}{8}$ $1 \frac{11}{16}$	STD $\frac{3}{8} \times \frac{1}{16}$ $\frac{3}{8} \times \frac{1}{16}$ No keyway
SDS	$\frac{1}{2} - 1 \frac{11}{16}$ $1 \frac{3}{4}$ $1 \frac{13}{16}$ $1 \frac{7}{8} - 1 \frac{15}{16}$ 2	STD $\frac{3}{8} \times \frac{1}{8}$ $\frac{1}{2} \times \frac{1}{8}$ $\frac{1}{2} \times \frac{1}{16}$ No keyway
SD	$\frac{1}{2} - 1 \frac{11}{16}$ $1 \frac{3}{4}$ $1 \frac{13}{16}$ $1 \frac{7}{8}$ $1 \frac{15}{16}$ 2	STD $\frac{3}{8} \times \frac{1}{8}$ $\frac{1}{2} \times \frac{1}{8}$ $\frac{1}{2} \times \frac{1}{16}$ $\frac{1}{2} \times \frac{1}{16}$ No keyway
SK	$\frac{1}{2} - 2 \frac{1}{8}$ $2 \frac{3}{16} - 2 \frac{1}{4}$ $2 \frac{5}{16} - 2 \frac{1}{2}$ $2 \frac{9}{16} - 2 \frac{5}{8}$	STD $\frac{1}{2} \times \frac{1}{8}$ $1 \frac{5}{8} \times \frac{1}{16}$ No keyway
SF	$\frac{1}{2} - 2 \frac{1}{4}$ $2 \frac{5}{16} - 2 \frac{1}{2}$ $2 \frac{9}{16} - 2 \frac{3}{4}$ $2 \frac{13}{16} - 2 \frac{7}{8}$ $2 \frac{15}{16}$	STD $1 \frac{5}{8} \times \frac{3}{16}$ $\frac{5}{8} \times \frac{1}{16}$ $\frac{3}{4} \times \frac{1}{16}$ $\frac{3}{4} \times \frac{1}{32}$
E	$\frac{7}{8} - 2 \frac{7}{8}$ $2 \frac{15}{16} - 3 \frac{1}{4}$ $3 \frac{3}{8} - 3 \frac{1}{2}$	STD* $\frac{3}{4} \times \frac{1}{8}$ $\frac{7}{8} \times \frac{1}{16}$
F	$1 - 3 \frac{15}{16}$ $3 \frac{3}{8} - 3 \frac{3}{4}$ $3 \frac{7}{8} - 3 \frac{15}{16}$ 4	STD* $\frac{7}{8} \times \frac{3}{16}$ $1 \times \frac{1}{8}$ No keyway
J	$1 \frac{1}{4} - 3 \frac{3}{4}$ $3 \frac{13}{16} - 4 \frac{1}{2}$	STD* $1 \times \frac{1}{8}$
M	$2 - 4 \frac{3}{4}$ $4 \frac{13}{16} - 5 \frac{1}{2}$	STD* $1 \frac{1}{4} \times \frac{1}{4}$
N	$2 \frac{7}{16}$ $5 \frac{7}{8} - 5 \frac{1}{2}$ $5 \frac{9}{16}$	STD* $1 \frac{1}{4} \times \frac{1}{4}$ $1 \frac{1}{2} \times \frac{1}{4}$
P	$2 \frac{15}{16} - 5 \frac{15}{16}$ $6 - 6 \frac{1}{2}$ $6 \frac{9}{16}$	STD* $1 \frac{1}{2} \times \frac{1}{4}$ $1 \frac{3}{4} \times \frac{1}{8}$
W	$4 - 7 \frac{1}{2}$ $7 \frac{9}{16} - 8 \frac{1}{2}$	STD* $2 \times \frac{1}{4}$

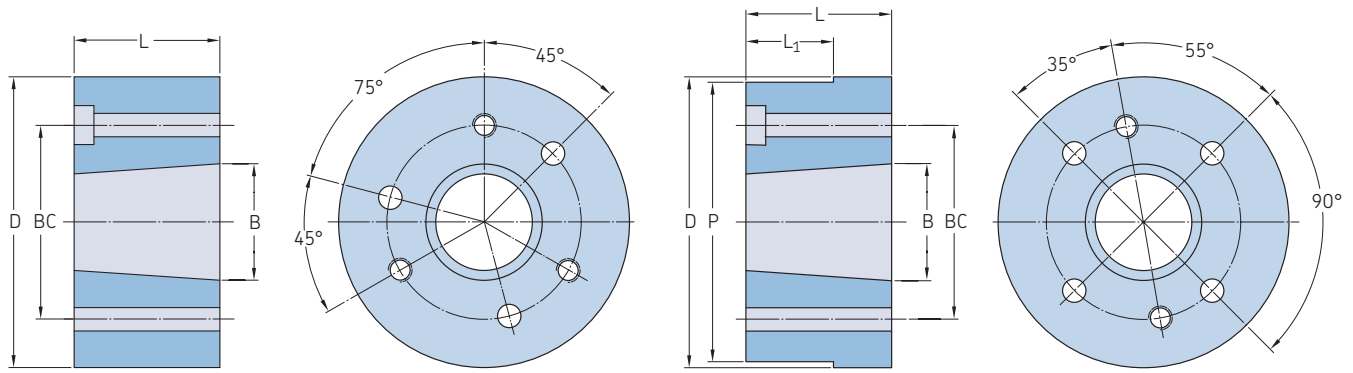
* Please contact SKF for details.

Metric bores and keyway

Bushing number	Bore	Keyway - WxT
–	mm	
SH	24, 25 28, 30 32, 35	8 x 7 – 10 x 8
SDS	24, 25 28, 30 32, 35 38 40, 42	8 x 7 – 10 x 8 – 12 x 8
SD	24, 25 28, 30 32, 35 38 40, 42	8 x 7 – 10 x 8 – 12 x 8
SK	24, 25 28, 30 32, 35 38 40, 42 48, 50 55	8 x 7 – 10 x 8 – 12 x 8 14 x 9 16 x 10
SF	28, 30 32, 35 38 40, 42 48, 50 55 60	8 x 7 10 x 8 – 12 x 8 14 x 9 16 x 10 18 x 11
E	35, 38 40, 42 48, 50 55 60, 65 70, 75	10 x 8 12 x 8 14 x 9 16 x 10 18 x 11 20 x 12
F	48, 50 55 60, 65 70, 75 80, 85	14 x 9 16 x 10 18 x 11 20 x 12 22 x 14
J	90	25 x 14
J	50 55 60, 65 70, 75 80, 85 90, 95 100	14 x 9 16 x 10 18 x 11 20 x 12 22 x 14 25 x 14 28 x 16

The metric system does not refer to keyseat or keyway dimensions as the inch system. Instead, dimensions are given for the key itself which is rectangular in shape, not square as in the inch system.

QD Weld-on hubs



Type 1

Type 2

Bushing number	Dimensions						Type drilling	Approx mass	Mounting	Designation
	D	L	B	P	L ₁	BC				
-	mm						-	kg	-	-
JA	57,2	14,3	34,9	-	-	42,1	1	0,18	Std or reverse mount	PHH WJA
SH	76,2	20,6	47,5	-	-	57,2	1	0,45	Std or reverse mount	PHH WSH
SDS	88,9	19,1	55,6	-	-	68,3	1	0,57	Std or reverse mount	PHH WSDS
SK	111,1	31,8	71,5	-	-	84,1	1	1,36	Std or reverse mount	PHH WSK
SF	127,0	31,8	79,4	-	-	98,4	1	1,81	Std or reverse mount	PHH WSF
E	158,8	41,3	97,3	-	-	127,0	1	4,08	Std or reverse mount	PHH WE
F	177,8	63,5	112,7	-	-	142,9	1	7,26	Std or reverse mount	PHH WF
J	196,9	81,0	130,6	-	-	158,8	1	10,21	Std or reverse mount	PHH WJ
M	241,3	131,8	164,9	235,0	90,5	200,0	2	22,69	Std mount only	PHH WM
N	266,7	158,8	177,5	260,4	114,3	215,9	2	34,03	Std mount only	PHH WN
P	330,2	184,2	209,3	-	-	254,0	2	70,33	Std mount only	PHH WP
W	393,7	228,6	265,1	-	-	323,9	2	136,12	Std mount only	PHH WW
S	495,3	304,8	308,0	476,3	-	381,0	2	253,18	Std mount only	PHH WS



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PUB PT/P1 11015 EN • Edition 2 • September 2013

This publication supersedes publication PUB PT/P1 11015 EN.