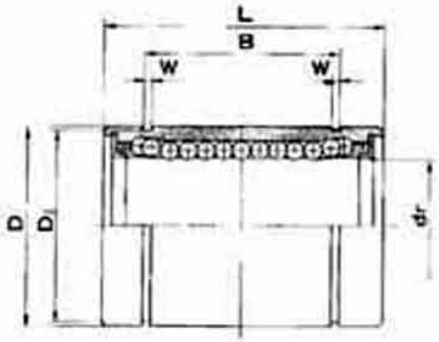
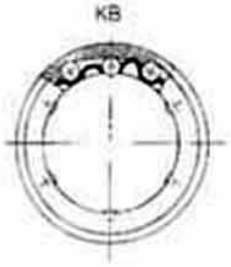
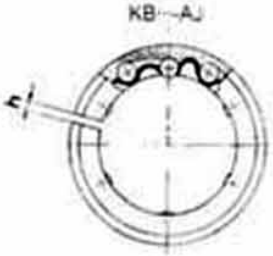
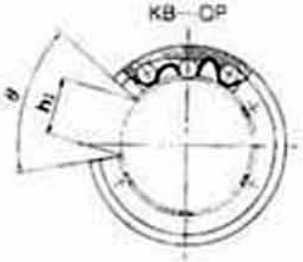
Manicotti standard



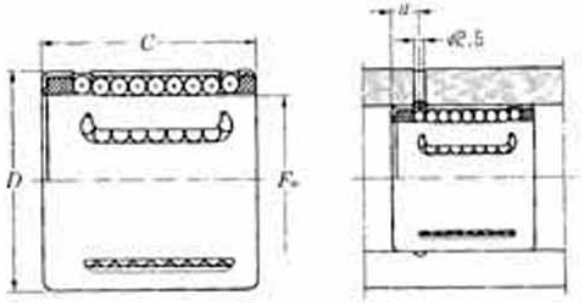






Diametro nominale albero mm	SIGLA						Dimensioni di ingombro (mm)									Coefficiente di carico (N)	
	KB	N° circuiti	KB-AJ	N° circuiti	KB-OP	N° circuiti	dr	D	L	B	W	D_1	h	h_1	α °	dinamico C	statico Co
3	KB 3	4	--	--	--	--	3	7	10	--	--	--	--	--	--	69	105
4	KB 4	4	--	--	--	--	4	8	12	--	--	--	--	--	--	88	127
5	KB 5	4	--	--	--	--	5	12	22	14,5	1,1	11,5	--	--	--	206	265
8	KB 8	4	--	--	--	--	8	16	25	16,5	1,1	15,2	--	--	--	265	402
10	KB 10	4	--	--	--	--	10	19	29	22	1,3	18	--	--	--	372	549
12	KB 12	4	KB 12-AJ	4	KB 12-OP	3	12	22	32	22,9	1,3	21	1,5	7,5	78	510	784
16	KB 16	4	KB 16-AJ	4	KB 16-OP	3	16	26	36	24,9	1,3	24,9	1,5	10	78	578	892
20	KB 20	5	KB 20-AJ	5	KB 20-OP	4	20	32	45	31,5	1,6	30,3	2	10	60	862	1.370
25	KB 25	6	KB 25-AJ	6	KB 25-OP	5	25	40	58	44,1	1,85	37,5	2	12,5	60	980	1.570
30	KB 30	6	KB 30-AJ	6	KB 30-OP	5	30	47	68	52,1	1,85	44,5	2	12,5	50	1.570	2.740
40	KB 40	6	KB 40-AJ	6	KB 40-OP	5	40	62	80	60,6	2,15	59	3	16,8	50	2.160	4.020
50	KB 50	6	KB 50-AJ	6	KB 50-OP	5	50	75	100	77,6	2,65	72	3	21	50	3.820	7.940
60	KB 60	6	KB 60-AJ	6	KB 60-OP	5	60	90	125	101,7	3,15	86,5	3	27,2	54	4.700	9.800
80	KB 80	6	KB 80-AJ	6	KB 80-OP	5	80	120	165	133,7	4,15	116	3	36,3	54	7.350	16.000

Tipo KH
Tipo KH··LL

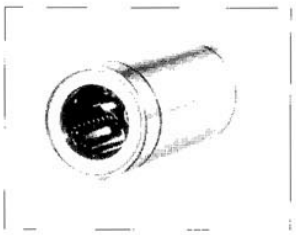


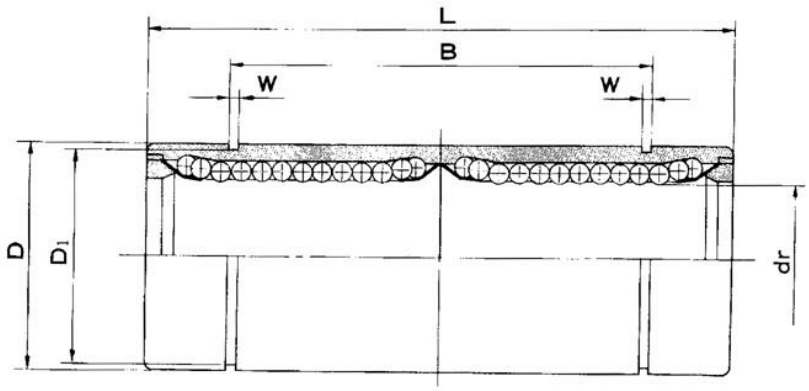
F_w 6～50mm

Dimensioni d'ingombro mm				Appellativo	Coefficienti di carico dinamico N	statico N	dinamico kgf	statico kgf	Numero di corone di sfere	Massa kg
F_w	D	C	α[1)]		C_r	C_{or}	C_r	C_{or}		(Approssimata)
6	12	22	4	**KH0622**	380	225	39	23	4	0.007
8	15	24	5	**KH0824**	420	255	43	26	4	0.012
10	17	26	5	**KH1026**	480	325	49	33	4	0.015
12	19	28	6	**KH1228**	605	495	62	51	5	0.018
14	21	28	6	**KH1428**	600	505	61	51	5	0.021
16	24	30	7	**KH1630**	775	600	79	61	5	0.027
20	28	30	7	**KH2030**	1 050	880	107	90	6	0.033
25	35	40	8	**KH2540**	1 930	1 560	197	159	6	0.066
30	40	50	8	**KH3050**	2 700	2 450	275	250	7	0.095
40	52	60	9	**KH4060**	4 250	4 000	435	410	8	0.18
50	62	70	9	**KH5070**	5 300	5 700	540	580	9	0.24

Manicotti serie lunga

KB-W (gabbia in acciaio) **KBS-W** (gabbia in acciaio inox)
KB-GW (gabbia in poliammide) **KBS-GW** (gabbia in poliammide)



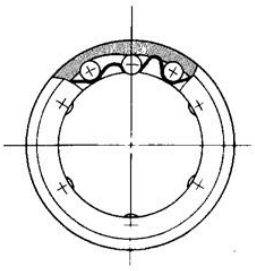


Diametro nominale albero mm	SIGLA				Numero di circuiti	dr	Tolleranza µm
	Acciaio		Acciaio inossidabile				
	KB-W	**KB-GW**	**KBS-W**	**KBS-GW**			
8	**KB 8W**	**KB 8GW**	**KBS 8W**	**KBS 8GW**	4	8	+9/-1
12	**KB 12W**	**KB 12GW**	**KBS 12W**	**KBS 12GW**	4	12	+9/-1
16	**KB 16W**	**KB 16GW**	**KBS 16W**	**KBS 16GW**	4	16	+11/-1
20	**KB 20W**	**KB 20GW**	**KBS 20W**	**KBS 20GW**	5	20	+11/-1
25	**KB 25W**	**KB 25GW**	**KBS 25W**	**KBS 25GW**	6	25	+13/-2
30	**KB 30W**	**KB 30GW**	**KBS 30W**	**KBS 30GW**	6	30	+13/-2
40	**KB 40W**	**KB 40GW**	**KBS 40W**	**KBS 40GW**	6	40	+16/-4
50	**KB 50W**	**KB 50GW**	**KBS 50W**	**KBS 50GW**	6	50	+16/-4
60	**KB 60W**	**KB 60GW**	**KBS 60W**	**KBS 60GW**	6	60	+16/-4

Manicotti con tenuta:
KBS 20W UU

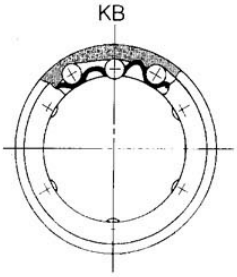
-	Senza tenute
U	Tenuta da un solo lato
UU	Tenuta da entrambi i lati

KB..W
KBS..W



KBS..W
KBS..GW

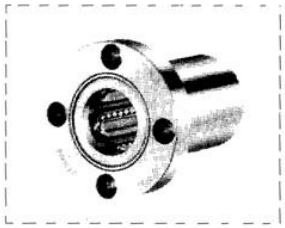
KB

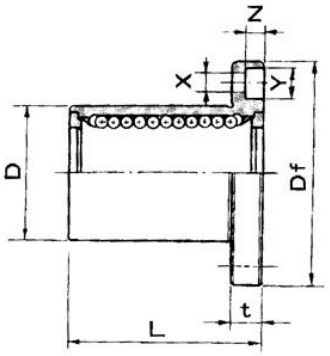


Dimensioni di ingombro (mm)								Errore di eccentricitá µm	Coefficiente di carico (N)		Peso g
D	Tolleranza µm	**L**	Tolleranza µm	**B**	Tolleranza µm	**W**	**D_1**		Dinamico C	Statico Co	
16	0/-9	46	0/-300	33	0/-300	1,1	15,2	15	421	804	40
22	0/-11	61	0/-300	45,8	0/-300	1,3	21	15	813	1.570	80
26	0/-11	68	0/-300	49,8	0/-300	1,3	24,9	15	921	1.780	115
32	0/-13	80	0/-300	61	0/-300	1,6	30,5	17	1.370	2.740	180
40	0/-13	112	0/-400	82	0/-400	1,5	38	17	1.570	3.140	430
47	0/-13	123	0/-400	104,2	0/-400	1,85	44,5	17	2.500	5.490	615
62	0/-15	151	0/-400	121,2	0/-400	2,15	59	20	3.430	8.040	1.400
75	0/-15	192	0/-400	155,2	0/-400	2,65	72	20	6.080	15.900	2.320
90	0/-20	209	0/-400	170	0/-400	3,15	86,5	25	7.550	20.000	3.920

Manicotti flangiati standard - Flangia tonda e quadra

KBF	**(gabbia in acciaio)**	**KBSF**	**(gabbia in acciaio inox)**
KBK	**(gabbia in acciaio)**	**KBSK**	**(gabbia in acciaio inox)**
KBF-G	**(gabbia in poliammide)**	**KBSF-G**	**(gabbia in poliammide)**
KBK-G	**(gabbia in poliammide)**	**KBSK-G**	**(gabbia in poliammide)**





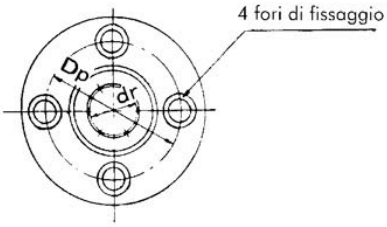
Diametro nominale albero mm	SIGLA				Dimensioni di ingombro (mm)					
	Acciaio		Acciaio inossidabile							
	KBF KBK	KBF - G KBK - G	KBSF KBSK	KBSF-G KBSK - G	dr	Tolleranza µm	D	Tolleranza µm	L	Tolleranza µm
5	--	KBF 5G	--	KBSF 5G	5	+8/0	12	0/-13	22	+/-300
	--	KBK 5G	--	KBSK 5G	5	+8/0	12	0/-13	22	+/-300
8	KBF 8	KBF 8G	KBSF 8	KBSF 8G	8	+8/0	16	0/-13	25	+/-300
	KBK 8	KBK 8G	KBSK 8	KBSK 8G	8	+8/0	16	0/-13	25	+/-300
12	KBF 12	KBF 12G	KBSF 12	KBSF 12G	12	+8/0	22	0/-16	32	+/-300
	KBK 12	KBK 12G	KBSK 12	KBSK 12G	12	+8/0	22	0/-16	32	+/-300
16	KBF 16	KBF 16G	KBSF 16	KBSF 16G	16	+9/-1	26	0/-16	36	+/-300
	KBK 16	KBK 16G	KBSK 16	KBSK 16G	16	+9/-1	26	0/-16	36	+/-300
20	KBF 20	KBF 20G	KBSF 20	KBSF 20G	20	+9/-1	32	0/-19	45	+/-300
	KBK 20	KBK 20G	KBSK 20	KBSK 20G	20	+9/-1	32	0/-19	45	+/-300
25	KBF 25	KBF 25G	KBSF 25	KBSF 25G	25	+11/-1	40	0/-19	58	+/-300
	KBK 25	KBK 25G	KBSK 25	KBSK 25G	25	+11/-1	40	0/-19	58	+/-300
30	KBF 30	KBF 30G	KBSF 30	KBSF 30G	30	+11/-1	47	0/-19	68	+/-300
	KBK 30	KBK 30G	KBSK 30	KBSK 30G	30	+11/-1	47	0/-19	68	+/-300
40	KBF 40	KBF 40G	KBSF 40	KBSF 40G	40	+13/-2	62	0/-22	80	+/-300
	KBK 40	KBK 40G	KBSK 40	KBSK 40G	40	+13/-2	62	0/-22	80	+/-300
50	KBF 50	KBF 50G	KBSF 50	KBSF 50G	50	+13/-2	75	0/-22	100	+/-300
	KBK 50	KBK 50G	KBSK 50	KBSK 50G	50	+13/-2	75	0/-22	100	+/-300
60	KBF 60	KBF 60G	KBSF 60	KBSF 60G	60	+13/-2	90	0/-25	125	+/-300
	KBK 60	KBK 60G	KBSK 60	KBSK 60G	60	+13/-2	90	0/-25	125	+/-300
80	KBF 80	--	--	--	80	+16/-4	120	0/-25	165	+/-300
	KBK 80	--	--	--	80	+16/-4	120	0/-25	165	+/-300

Manicotto flangiato con tenuta:

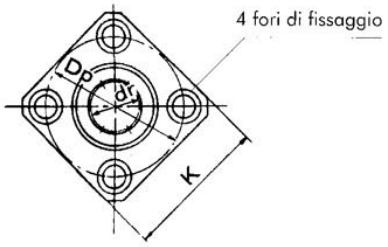
KBF 80 UU

-	Senza tenute
UU	Tenuta da entrambi i lati

KBF KBF..G
KBSF KBSF..G



KBK KBK..G
KBSK KBSK..G

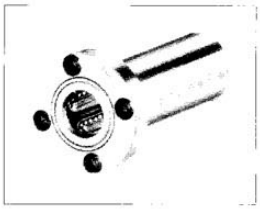


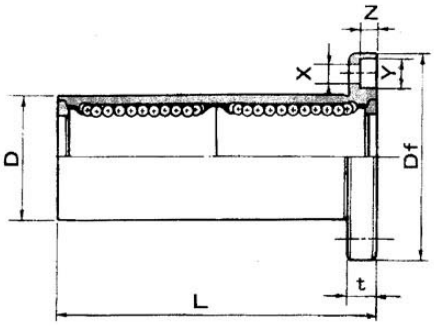
Dimensioni di ingombro (mm)							Errore di Eccentricitá µm	Errore di Quadratura µm	Coefficiente di carico (N)		Peso g
Df	K	t	Dp	X	Y	Z			Dinamico C	Statico Co	
28	22	5	20	3,5	6	3,1	12	12	206	265	26
28	22	5	20	3,5	6	3,1	12	12	206	265	20
32	25	5	24	3,5	6	3,1	12	12	265	402	41
32	25	5	24	3,5	6	3,1	12	12	265	402	33
42	32	6	32	4,5	7,5	4,1	12	12	510	784	80
42	32	6	32	4,5	7,5	4,1	12	12	510	784	64
46	35	6	36	4,5	7,5	4,1	12	12	578	892	103
46	35	6	36	4,5	7,5	4,1	12	12	578	892	90
54	42	8	43	5,5	9	5,1	15	15	862	1.370	182
54	42	8	43	5,5	9	5,1	15	15	862	1.370	147
62	50	8	51	5,5	9	5,1	15	15	980	1.570	335
62	50	8	51	5,5	9	5,1	15	15	980	1.570	295
76	60	10	62	6,6	11	6,1	15	15	1.570	2.740	560
76	60	10	62	6,6	11	6,1	15	15	1.570	2.740	465
98	75	13	80	9	14	8,1	17	17	2.160	4.020	1.175
98	75	13	80	9	14	8,1	17	17	2.160	4.020	975
112	88	13	94	9	14	8,1	17	17	3.820	7.940	1.745
112	88	13	94	9	14	8,1	17	17	3.820	7.940	1.545
134	106	18	112	11	17	11,1	20	20	4.700	9.800	3.220
134	106	18	112	11	17	11,1	20	20	4.700	9.800	2.780
164	136	18	142	11	17	11,1	20	20	7.350	16.000	6.420
164	136	18	142	11	17	11,1	20	20	7.350	16.000	5.920

Manicotti flangiati serie lunga

KBF-W (gabbia in acciaio)
KBK-W (gabbia in acciaio)
KBF-GW (gabbia in poliammide)
KBK-GW (gabbia in poliammide)

KBSF-W (gabbia in acciaio inox)
KBSK-W (gabbia in acciaio inox)
KBSF-GW (gabbia in poliammide)
KBSK-GW (gabbia in poliammide)



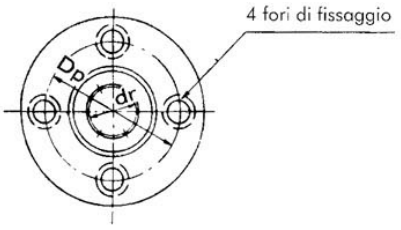


Diametro nominale albero mm	SIGLA				Dimensioni di ingombro (mm)					
	Acciaio		Acciaio inossidabile		dr	Tolleranza µm	D	Tolleranza µm	L	Tolleranza µm
	KBF-W KBK-W	KBF-GW KBK-GW	KBSF-W KBSK-W	KBSF-GW KBSK-GW						
8	KBF 8W	KBF 8GW	KBSF 8W	KBSF 8GW	8	+8/0	16	0/-13	46	+/-300
	KBK 8W	KBK 8GW	KBSK 8W	KBSK 8GW	8	+8/0	16	0/-13	46	+/-300
12	KBF 12W	KBF 12GW	KBSF 12W	KBSF 12GW	12	+8/0	22	0/-16	61	+/-300
	KBK 12W	KBK 12GW	KBSK 12W	KBSK 12GW	12	+8/0	22	0/-16	61	+/-300
16	KBF 16W	KBF 16GW	KBSF 16W	KBSF 16GW	16	+9/-1	26	0/-16	68	+/-300
	KBK 16W	KBK 16GW	KBSK 16W	KBSK 16GW	16	+9/-1	26	0/-16	68	+/-300
20	KBF 20W	KBF 20GW	KBSF 20W	KBSF 20GW	20	+9/-1	32	0/-19	80	+/-300
	KBK 20W	KBK 20GW	KBSK 20W	KBSK 20GW	20	+9/-1	32	0/-19	80	+/-300
25	KBF 25W	KBF 25GW	KBSF 25W	KBSF 25GW	25	+11/-1	40	0/-19	112	+/-300
	KBK 25W	KBK 25GW	KBSK 25W	KBSK 25GW	25	+11/-1	40	0/-19	112	+/-300
30	KBF 30W	KBF 30GW	KBSF 30W	KBSF 30GW	30	+11/-1	47	0/-19	123	+/-300
	KBK 30W	KBK 30GW	KBSK 30W	KBSK 30GW	30	+11/-1	47	0/-19	123	+/-300
40	KBF 40W	KBF 40GW	KBSF 40W	KBSF 40GW	40	+13/-2	62	0/-22	151	+/-300
	KBK 40W	KBK 40GW	KBSK 40W	KBSK 40GW	40	+13/-2	62	0/-22	151	+/-300
50	KBF 50W	KBF 50GW	KBSF 50W	KBSF 50GW	50	+13/-2	75	0/-22	192	+/-300
	KBK 50W	KBK 50GW	KBSK 50W	KBSK 50GW	50	+13/-2	75	0/-22	192	+/-300
60	KBF 60W	KBF 60GW	KBSF 60W	KBSF 60GW	60	+13/-2	90	0/-25	209	+/-300
	KBK 60W	KBK 60GW	KBSK 60W	KBSK 60GW	60	+13/-2	90	0/-25	209	+/-300

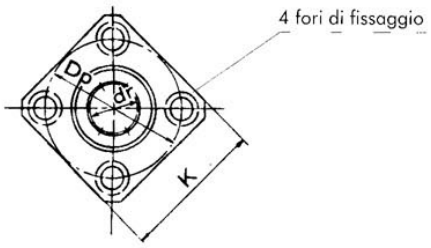
Manicotto flangiato con tenuta:
KBF 20W UU

-	Senza tenute
UU	Tenuta da entrambi i lati

KBF..W KBF..GW
KBSF...W KBSF..GW



KBK..W KBK..GW
KBSK...W KBSK..GW

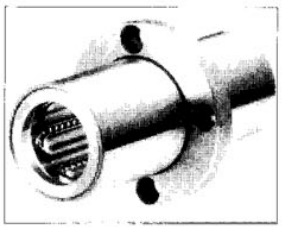


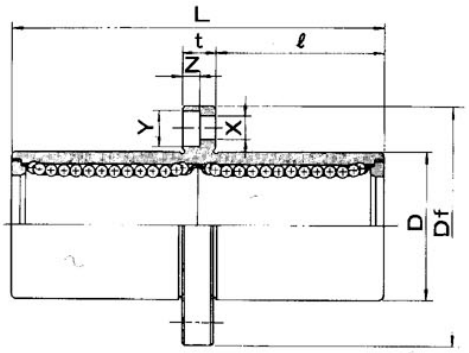
Dimensioni di ingombro (mm)							Errore di Eccentricitá µm	Errore di Quadratura µm	Coefficiente di carico (N) Dinamico C	Statico Co	Peso g
Df	**K**	**t**	**Dp**	**X**	**Y**	**Z**					
32	25	5	24	3,5	6	3,1		15	421	804	59
32	25	5	24	3,5	6	3,1	15	15	421	804	51
42	32	6	32	4,5	7,5	4,1		15	813	1.570	110
42	32	6	32	4,5	7,5	4,1	15	15	813	1.570	90
46	35	6	36	4,5	7,5	4,1		15	921	1.780	160
46	35	6	36	4,5	7,5	4,1	15	15	921	1.780	135
54	42	8	43	5,5	9	5,1		17	1.370	2.740	260
54	42	8	43	5,5	9	5,1	17	17	1.370	2.740	225
62	50	8	51	5,5	9	5,1		17	1.570	3.140	540
62	50	8	51	5,5	9	5,1	17	17	1.570	3.140	500
76	60	10	62	6,6	11	6,1		17	2.500	5.490	815
76	60	10	62	6,6	11	6,1	17	17	2.500	5.490	720
98	75	13	80	9	14	8,1		20	3.430	8.040	1.805
98	75	13	80	9	14	8,1	20	20	3.430	8.040	1.600
112	88	13	94	9	14	8,1		20	6.080	15.900	2.820
112	88	13	94	9	14	8,1	20	20	6.080	15.900	2.620
134	106	18	112	11	17	11,1		25	7.550	20.000	4.920
134	106	18	112	11	17	11,1	25	25	7.550	20.000	4.480

Manicotti con flangia centrale

KBFC	**(gabbia in acciaio)**	**KBSFC**	**(gabbia in acciaio inox)**
KBKC	**(gabbia in acciaio)**	**KBSKC**	**(gabbia in acciaio inox)**
KBFC-G	**(gabbia in poliammide)**	**KBSFC-G**	**(gabbia in poliammide)**
KBKC-G	**(gabbia in poliammide)**	**KBSKC-G**	**(gabbia in poliammide)**

con lunghezza doppia





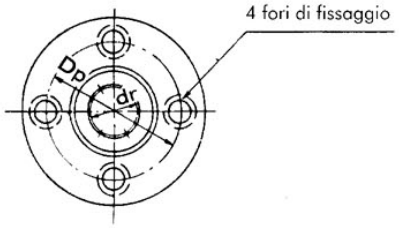
Diametro nominale albero mm	SIGLA				Dimensioni di ingombro (mm)					
	Acciaio		Acciaio inossidabile		dr	Tolleranza µm	D	Tolleranza µm	L	Tolleranza µm
	KBFC KBKC	KBFC-G KBKC-G	KBSFC KBSKC	KBSFC-G KBSKC-G						
8	**KBFC 8**	**KBFC 8G**	**KBSFC 8**	**KBSFC 8G**	8	+9/-1	16	0/-13	46	+/-300
	KBKC 8	**KBKC 8G**	**KBSKC 8**	**KBSKC 8G**	8	+9/-1	16	0/-13	46	+/-300
12	**KBFC 12**	**KBFC 12G**	**KBSFC 12**	**KBSFC 12G**	12	+9/-1	22	0/-16	61	+/-300
	KBKC 12	**KBKC 12G**	**KBSKC 12**	**KBSKC 12G**	12	+9/-1	22	0/-16	61	+/-300
16	**KBFC 16**	**KBFC 16G**	**KBSFC 16**	**KBSFC 16G**	16	+11/-1	26	0/-16	68	+/-300
	KBKC 16	**KBKC 16G**	**KBSKC 16**	**KBSKC 16G**	16	+11/-1	26	0/-16	68	+/-300
20	**KBFC 20**	**KBFC 20G**	**KBSFC 20**	**KBSFC 20G**	20	+11/-1	32	0/-19	80	+/-300
	KBKC 20	**KBKC 20G**	**KBSKC 20**	**KBSKC 20G**	20	+11/-1	32	0/-19	80	+/-300
25	**KBFC 25**	**KBFC 25G**	**KBSFC 25**	**KBSFC 25G**	25	+13/-2	40	0/-19	112	+/-300
	KBKC 25	**KBKC 25G**	**KBSKC 25**	**KBSKC 25G**	25	+13/-2	40	0/-19	112	+/-300
30	**KBFC 30**	**KBFC 30G**	**KBSFC 30**	**KBSFC 30G**	30	+13/-2	47	0/-19	123	+/-300
	KBKC 30	**KBKC 30G**	**KBSKC 30**	**KBSKC 30G**	30	+13/-2	47	0/-19	123	+/-300
40	**KBFC 40**	**KBFC 40G**	**KBSFC 40**	**KBSFC 40G**	40	+16/-4	62	0/-22	151	+/-300
	KBKC 40	**KBKC 40G**	**KBSKC 40**	**KBSKC 40G**	40	+16/-4	62	0/-22	151	+/-300
50	**KBFC 50**	**KBFC 50G**	**KBSFC 50**	**KBSFC 50G**	50	+16/-4	75	0/-22	192	+/-300
	KBKC 50	**KBKC 50G**	**KBSKC 50**	**KBSKC 50G**	50	+16/-4	75	0/-22	192	+/-300
60	**KBFC 60**	**KBFC 60G**	**KBSFC 60**	**KBSFC 60G**	60	+16/-4	90	0/-25	209	+/-300
	KBKC 60	**KBKC 60G**	**KBSKC 60**	**KBSKC 60G**	60	+16/-4	90	0/-25	209	+/-300

Manicotto flangiato con tenuta:

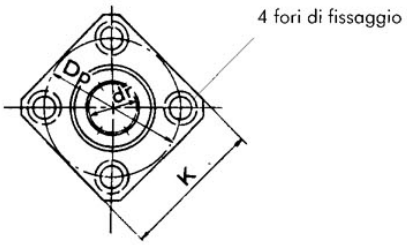
KBFC 20 UU

-	Senza tenute
UU	Tenuta da entrambi i lati

KBFC KBFC..G
KBSFC KBSFC..G



KBKC KBKC..G
KBSKC KBSKC..G



Dimensioni di ingombro (mm)								Errore di Eccentricitá µm	Errore di Quadratura µm	Coefficiente di carico (N)		Peso g
ℓ	Df	K	t	Dp	X	Y	Z			Dinamico C	Statico Co	
20,5	32	25	5	24	3,5	6	3,1	15	15	421	804	59
20,5	32	25	5	24	3,5	6	3,1	15	15	421	804	51
27,5	42	32	6	32	4,5	7,5	4,1	15	15	813	1.570	110
27,5	42	32	6	32	4,5	7,5	4,1	15	15	813	1.570	90
31,0	46	35	6	36	4,5	7,5	4,1	15	15	921	1.780	160
31,0	46	35	6	36	4,5	7,5	4,1	15	15	921	1.780	135
36,0	54	42	8	43	5,5	9	5,1	17	17	1.370	2.740	260
36,0	54	42	8	43	5,5	9	5,1	17	17	1.370	2.740	225
52,0	62	50	8	51	5,5	9	5,1	17	17	1.570	3.140	540
52,0	62	50	8	51	5,5	9	5,1	17	17	1.570	3.140	500
56,5	76	60	10	62	6,6	11	6,1	17	17	2.500	5.490	815
56,5	76	60	10	62	6,6	11	6,1	17	17	2.500	5.490	720
69,0	98	75	13	80	9	14	8,1	20	20	3.430	8.040	1.805
69,0	98	75	13	80	9	14	8,1	20	20	3.430	8.040	1.600
89,5	112	88	13	94	9	14	8,1	20	20	6.080	15.900	2.820
89,5	112	88	13	94	9	14	8,1	20	20	6.080	15.900	2.620
95,5	134	106	18	112	11	17	11,1	25	25	7.550	20.000	4.920
95,5	134	106	18	112	11	17	11,1	25	25	7.550	20.000	4.480