



SNODI SFERICI • TESTE A SNODO • ARTICOLAZIONI SFERICHE **SPHERICAL PLAIN BEARINGS • ROD ENDS • BALL JOINT ROD ENDS**

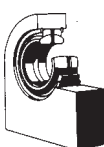


CATALOGO TECNICO GENERALE
GENERAL TECHNICAL CATALOGUE
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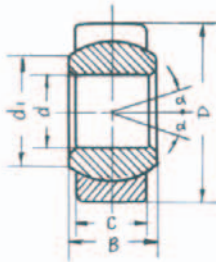


Tipo Type	Sigla corrispondente Equivalent				Diametro foro (mm) Bore diameter (mm)	Caratteristiche tecniche Technical details	Pag. Page
	SKF	INA	IKO	THK			
 Snodi sferici radiali anche scanalati senza schermi stagni (serie GE..E - GE..ES) <i>Spherical plain radial bearings with/without fitting crack and groove (GE..E - GE..ES series)</i>	GE..E GE..ES	GE..DO	—	—	4 - 300	Anello esterno senza scanalatura circonferenziale senza foro e scanalatura di lubrificazione. Fosfatizzati su entrambi gli anelli. <i>Outer ring without single split in axial direction. No lubrication grooves and holes. Both outer and inner rings are properly phosphorlylate-treated.</i>	4
 Snodi sferici radiali anche scanalati con schermi stagni (serie GE..ES 2RS) <i>Spherical plain radial bearings with seals, with/without fitting crack and groove (GE..ES 2RS series)</i>	GE..ES 2RS	GE..DO 2RS	—	—	15 - 300	Anello esterno con scanalatura circonferenziale e a due tenute stagne. Scanalatura e foro di lubrificazione su anello esterno ed interno. Fosfatizzati su entrambi gli anelli. <i>Outer ring with single split in axial direction. With two seals. Lubrication grooves and holes in the outer and inner rings. Both outer and inner rings are properly phosphorlylate-treated</i>	4
 Snodi sferici radiali anche scanalati senza schermi stagni (serie GEG..E - GEG..ES) <i>Spherical plain radial bearings with/without fitting crack and groove (GEG..E - GEG..ES series)</i>	GEG..E GEG..ES	GE..FO	—	—	15 - 280	Anello esterno senza scanalatura circonferenziale senza foro e scanalatura di lubrificazione. Fosfatizzati su entrambi gli anelli. <i>Outer ring without single split in axial direction. No lubrication grooves and holes. Both outer and inner rings are properly phosphorlylate-treated.</i>	5
 Snodi sferici radiali anche scanalati con schermi stagni (serie GEG..ES 2RS) <i>Spherical plain radial bearings with seals, with/without fitting crack and groove (GEG..ES 2RS series)</i>	GEG..ES 2RS	GE..FO 2RS	—	—	15 - 280	Anello esterno con scanalatura circonferenziale e a due tenute stagne. Scanalatura e foro di lubrificazione su anello esterno ed interno. Fosfatizzati su entrambi gli anelli. <i>Outer ring with single split in axial direction. With two seals. Lubrication grooves and holes in the outer and inner rings. Both outer and inner rings are properly phosphorlylate-treated</i>	5
 Snodi sferici radiali scanalati con anello interno largo senza schermi stagni (serie GEEW..ES) <i>Spherical plain radial bearings with wide inner ring with/without fitting crack (GEEW..ES series)</i>	GEG..ES	GE..LO	—	—	12 - 125	Anello esterno con scanalatura circonferenziale. Anello interno con estensione cilindrica su ambo i lati. Scanalatura e foro di lubrificazione su anello esterno ed interno. Fosfatizzati su entrambi gli anelli. <i>Outer ring with single split in axial direction. Inner ring with cylindrical extension at either side. Lubrication grooves and holes in the outer and inner rings. Both outer and inner rings are properly phosphorlylate-treated</i>	6
 Snodi sferici radiali scanalati con anello interno largo con schermi stagni (serie GEEW..ES 2RS) <i>Spherical plain radial bearings with wide inner ring with/without fitting crack and seals (GEEW..ES 2RS series)</i>	GEG..ES 2RS	GE..LO 2RS	—	—	12 - 125	Anello esterno con scanalatura circonferenziale e a due tenute stagne. Anello interno con estensione cilindrica su ambo i lati. Scanalatura e foro di lubrificazione su anello esterno ed interno. Fosfatizzati su entrambi gli anelli. <i>Outer ring with single split in axial direction. With two seals. Inner ring with cylindrical extension at either side. Lubrication grooves and holes in the outer and inner rings. Both outer and inner rings are properly phosphorlylate-treated</i>	6
 Snodi sferici radiali scanalati con anello interno largo con schermi stagni (serie GEEW..ES 2RS) <i>Spherical plain radial bearings with wide inner ring with/without fitting crack and seals (GEEW..ES 2RS series)</i>	GEM..ES 2RS	GE..HO 2RS	—	—	20 - 80	Anello esterno con scanalatura circonferenziale e a due tenute stagne. Anello interno con estensione cilindrica su ambo i lati. Scanalatura e foro di lubrificazione su anello esterno ed interno. Fosfatizzati su entrambi gli anelli. <i>Outer ring with single split in axial direction. With two seals. Inner ring with cylindrical extension at either side. Lubrication grooves and holes in the outer and inner rings. Both outer and inner rings are properly phosphorlylate-treated</i>	6
 Snodi sferici radiali esenti da manutenzione (serie GE..C - GE..ET 2RS GEG..C - GEG..ET 2RS) <i>Maintenance-free spherical plain radial bearings (GE..C - GE..ET 2RS GEG..C - GEG..ET 2RS series)</i>	GE..C GE..L 2RS GE..H GEH..C 2RS	GE..UK GE..UK 2RS GE..FW GE..FW 2RS	—	—	4 - 30 20 - 140 4 - 30 30 - 140	Anello esterno con accoppiamento acciaio su bronzo sinterizzato con PTFE. Superficie sferica dell'anello interno a cromatura dura. <i>Outer ring pressed around inner ring. To line SF1 material on the surface of spherical plain. Spherical surface of inner ring with chromium plating.</i>	7-8
 Snodi sferici a contatto obliquo (serie GAC..S) <i>Angular contact spherical plain bearings (GAC..S series)</i>	GAC..F	GE..SX	—	—	25 - 120	Anelli interni ed esterni separabili. Scanalatura e foro di lubrificazione sull'anello esterno. Fosfatizzati su entrambi gli anelli. <i>Separable outer and inner rings. Lubrication grooves and holes in the outer ring. Both outer and inner rings are properly phosphorlylate-treated.</i>	9

Tipo Type	Sigla corrispondente Equivalent				Diametro foro (mm) Bore diameter (mm)	Caratteristiche tecniche Technical details	Pag. Page
	SKF	INA	IKO	THK			
 Snodi sferici assiali (serie GX..S) <i>Spherical plain thrust bearings (GX..S series)</i>	GX..F	GE..AX	—	—	10 - 120	Ralle per alloggiamento e per albero separabili. Scanalatura e foro di lubrificazione sulla ralla di alloggiamento. Entrambe le ralle sono fosfatizzate. <i>Separable shaft and housing washers. Lubrication grooves and holes in the housing washer. Both shaft and housing washers are properly phosphorlylate-treated.</i>	9
 Snodi sferici radiali in pollici scanalati senza schermi stagni (serie GEZ..ES) <i>Inches spherical plain radial bearings with/without fitting crack (GEZ..ES series)</i>	GEZ..ES	GE..ZO	—	—	12.7 - 152.4	Come il tipo GE..ES ma con dimensione in pollici. <i>As type GE..ES, but dimensions inches</i>	10
 Snodi sferici radiali in pollici scanalati con schermi stagni (serie GEZ..ES 2RS) <i>Inches spherical plain radial bearings with/without fitting crack and seals (GEZ..ES 2RS series)</i>	GEZ..ES 2RS	GE..ZO 2RS	—	—	12.7 - 152.4	Come il tipo GE..ES 2RS ma con dimensione in pollici. <i>As type GE..ES 2RS, but dimensions inches</i>	10
 Snodi sferici radiali in due pezzi (serie GE..XS K) <i>Two-pieces spherical plain radial bearings (GE..XS K series)</i>	—	—	SB..	—	12 - 150	Anello esterno in due pezzi assiali. Scanalature e fori di lubrificazione su anello interno ed esterno. Snodo bonderizzato fosfatizzato. <i>Outer ring with two-pieces in axial direction. Lubrication grooves and holes in the outer and inner rings. Both outer and inner rings are properly phosphorlylate-treated.</i>	11
 Snodi sferici radiali in due pezzi con schermi stagni (serie GEK..XS 2RS) <i>Two-pieces spherical plain radial bearings with seals (GEK..XS 2RS series)</i>	—	—	—	—	25 - 60	Anello esterno in due pezzi e 2 schermi sfera interna in acciaio cromato con scanalatura e foro di lubrificazione. <i>Outer ring with two axial pieces and two seals. Spherical surface of inner ring with chromium plating. Lubrication grooves and holes in the inner ring.</i>	12
 Snodi sferici con gambo (serie SQD..C) <i>Ball joint rod ends with one shank (SQD..C series)</i>	—	—	—	—	5 - 16	Snodo sferico radiale con sfera interna con gambo filettato. Anello esterno con accoppiamento acciaio su bronzo sinterizzato con PTFE. <i>Ball joint housing is a outer ring of spherical plain radial bearings. To line SF1 material on the surface of spherical plain.</i>	13
 Articolazioni sferiche angolari (serie SQ..C RS) <i>Winding shape ball joint rod ends (SQ..C RS series)</i>	—	—	—	RBL	5 - 22	Articolazione sferica ad "L" con parapolvere. Esecuzione femmina con filettatura destra o sinistra. Accoppiamento acciaio su bronzo sinterizzato con PTFE. <i>Ball joint housing is a "L" shaped shank with dust cover with female thread. They are available for right or left-hand thread. To line SF1 material on the surface of spherical plain.</i>	14
 Articolazioni sferiche diritte (serie SQZ..C RS) <i>Straight ball joint rod ends (SQZ..C RS series)</i>	—	—	—	RBI	5 - 22	Articolazione sferica diritta in linea con parapolvere. Esecuzione femmina con filettatura destra o sinistra. Accoppiamento acciaio su bronzo sinterizzato con PTFE. <i>Ball joint housing is axial shank with dust cover with female thread. Stretching rod with right or left-hand thread. To line SF1 material on the surface of spherical plain.</i>	14
 Teste a snodo (Femmina) (serie SI..E - SI..ES - SI..ES 2RS - SI..C - SI..C 2RS) <i>Rod ends (Female) (SI..E - SI..ES - SI..ES 2RS - SI..C - SI..C 2RS series)</i>	SIA..ES SIA..ES 2RS SIA..TE SIA..TE 2RS	GIR..DO GIR..DO 2RS GIR..UK GIR..UK 2RS	—	—	5 - 80 15 - 80 15 - 80 6 - 30 35 - 80	Snodo sferico GE..E - GE..ES con gambo filettato. È costruito con uno snodo sferico radiale montato sul corpo di una testa a snodo e può essere con filettatura destra o sinistra. La serie SI..E - SI..ES - SI..ES 2RS è provvista d'ingrassatore o foro di lubrificazione. <i>Bearings with a stretching rod. Stretching rod with right or left-hand, male or female thread. It is made up of a spherical plain radial bearing of type GE..E - GE..ES and rod body. The housing with a lubrication hole or a grease nipple for SI..E - SI..ES - SI..ES 2RS series.</i>	15

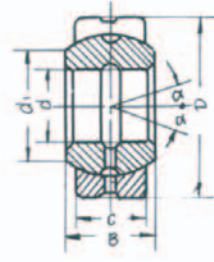
Tipo Type	Sigla corrispondente Equivalent				Diametro foro (mm) Bore diameter (mm)	Caratteristiche tecniche Technical details	Pag. Page
	SKF	INA	IKO	THK			
 Teste a snodo (Maschio) (serie SA..E - SA..ES - SA..ES 2RS - SA..C - SA..C 2RS) Rod ends (Male) (SA..E - SA..ES - SA..ES 2RS - SA..C - SA..C 2RS series)	SAA..ES SAA..ES 2RS SA..C SAA..TE 2RS	GAR..DO GAR..DO 2RS GAR..UK GAR..UK 2RS	— —	— —	5 - 80 15 - 80 15 - 80 6 - 30 35 - 80	Snodo sferico GE.. - GE..ES con gambo filettato. È costruito con uno snodo sferico radiale montato sul corpo di una testa a snodo e può essere con filettatura destra o sinistra. La serie SA..E - SA..ES - SA..ES 2RS è provvista d'ingrassatore o foro di lubrificazione. Accoppiamento: Acciaio/PTFE. Bearings with a stretching rod. Stretching rod with right or left-hand. It is made up of a spherical plain radial bearing of type GE.. - GE..ES and rod body. To line SF1 material on the surface of spherical plain. The housing with a lubrication hole or a grease nipple for SA..E - SA..ES - SA..ES 2RS series.	16
 Teste a snodo per idraulica (serie T.A.C.) Rod ends for hydraulic components (T.A.C. series)	SC..ES	GK..DO	—	—	10 - 80	Terminali a snodo rotondi da saldare sul fondello di cilindri. Dimensioni a norme DIN. Accoppiamento acciaio/acciaio. Round ball joint ends to weld on the bottom of cylinder. Standard dimensions DIN. Sliding contact surface: steel/steel.	17
 Teste a snodo per idraulica (serie TAPR..N - TAPR..U) Rod ends for hydraulic components (TAPR..N - TAPR..U series)	SIRD..ES SIR..ES	GIHR..DO GIHR - K..DO	—	—	20 - 120 20 - 120	Terminali a snodo da avvitare sullo stelo ed anche con corpo dotato di viti di bloccaggio, in esecuzione massiccia. Accoppiamento acciaio/acciaio. Screwed ball joint ends with screw on shank and also with body equipped of clamping screws in hard execution. Sliding contact surface: steel/steel.	18
 Teste a snodo per idraulica (serie T.P.N.) Rod ends for hydraulic components (T.P.N. series)	SCF..ES	GF..DO	—	—	20 - 120	Terminali a snodo in esecuzione robusta da saldare, indicato in presenza di carichi alterni. Accoppiamento acciaio/acciaio. Ball joint ends in strong execution to weld advisable with alternate loads. Sliding contact surface: steel/steel.	19
 Teste a snodo per idraulica (serie TAPR..DO) Rod ends for hydraulic components (TAPR..DO series)	TAPR..S	GIHO-K..DO	—	—	12 - 100	Terminali a snodo con filettatura interna e bloccaggio mediante due viti sui due lati a norme DIN. Accoppiamento acciaio/acciaio. Ball joint ends with internal thread and clamping device through two screw on two sides Standard DIN. Sliding contact surface: steel/steel.	20
 Teste a snodo per idraulica (serie TAPR..CE) Rod ends for hydraulic components (TAPR..CE series)	SIQG..ES	GIHN-K..LO	—	—	12 - 125	Terminali a snodo massicci a filettatura interna a norme DIN provvista di viti laterali per il bloccaggio. Accoppiamento acciaio/acciaio. Stout ball joint ends with internal thread Standard DIN with screws clamping device sliding contact surface: steel/steel.	21
 Teste a snodo (Maschio/Femmina) (serie TSM - TSM..C - TSF - TSF..C) Rod ends (Male/Female) (TSM - TSM..C - TSF - TSF..C series)	SAKAC..M — SIKAC..M —	GAK-FR..PB GAK-FR..PW GIK-FR..PB GIK-FR..PW	— — — —	— — — —	5 - 30 5 - 30 5 - 30 5 - 30	Snodo sferico con gambo filettato destro o sinistro maschio o femmina. Accoppiamento anello esterno in bronzo e sfera in acciaio cromato. C: esente da lubrificazione Bearings with a stretching rod. Stretching rod with right or left-hand, male of female thread. To line bronze material on the surface of spherical plain. Spherical surface of ball with chromium plating. C: maintenance free	22-23
 Snodi sferici (serie SSR) Spherical plain bearings (SSR series)	—	—	—	—	5 - 30	Anello esterno con scanalatura circonferenziale con foro di lubrificazione. Accoppiamento bronzo/acciaio. Outer ring with single split in axial direction. Lubrification grooves and holes in the outer rings. Sliding contact surfaces: bronze/steel.	24
 Snodi angolari con testa sferica temprata (serie B-BS) Ball joint rod ends with shank (B-BS series)	—	—	—	—	8 - 19	Snodi angolari con testa sferica temprata e con tenuta a molla (serie B-BS). Ball joints rod ends with shank and with spring clamping (B-BS series).	25
 Snodi angolari con testa sferica temprata (serie A-AS) Ball joint rod ends with shank (A-AS series)	—	—	—	—	8 - 19	Snodi angolari con testa sferica temprata e con tenuta a molla ed anello di sicurezza (serie A-AS). Ball joints rod ends with shank and with spring clamping and safety-ring (A-AS series).	25

SNODI SFERICI RADIALI ANCHE SCANALATI CON E SENZA SCHERMI STAGNI
SPHERICAL PLAIN RADIAL BEARINGS WITH FITTING CRACK. TWO SEALS AND FITTING CRACK, FITTING GROOVE.



GE...E
GEG...E

Equivalentente SKF GE...E
—
Equivalentente INA GE...DO
GE...FO
Equivalentente IKO GE...E
GE...G

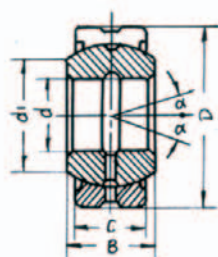


GE...ES
GEG...ES

GE...ES
GEH...ES
GE...DO
GE...FO
GE...ES
GE...GS

SKF: GE...E/ES GE...ES-2RS INA: GE...DO GE...DO-2RS			Dimensioni mm Dimensions mm					Carico Ratings load		α *	Peso Weight + Kg
			d	D	B	C	d ₁ min.	Dynamic KN	Static KN		
GE4E			4	12	5	3	6	2	10	16	0.0033
GE5S			5	14	6	4	7	3,4	17	13	0.0038
GE6E			6	14	6	4	8	3,4	17	13	0.0042
GE8E			8	16	8	5	10	5,5	27	15	0.0075
GE10E			10	19	9	6	13	8,1	40	12	0,011
GE12E			12	22	10	7	15	10	54	10	0.015
GE15ES	GE15ES-2RS		15	26	12	9	18	17	85	8	0,027
GE17ES	GE17ES-2RS		17	30	14	10	20	21	106	10	0.041
GE20ES	GE20ES-2RS		20	35	16	12	24	30	146	9	0.066
GE25ES	GE25ES-2RS		25	42	20	16	29	48	240	7	0.119
GE30ES	GE30ES-2RS		30	47	22	18	34	62	310	6	0.153
GE35ES	GE35ES-2RS		35	55	25	20	39	80	400	6	0.233
GE40ES	GE40ES-2RS		40	62	28	22	45	100	500	7	0.306
GE45ES	GE45ES-2RS		45	68	32	25	50	127	640	7	0.427
GE50ES	GE50ES-2RS		50	75	35	28	55	156	780	6	0.546
GE60ES	GE60ES-2RS		60	90	44	36	66	245	1220	6	1.045
GE70ES	GE70ES-2RS		70	105	49	40	77	315	1560	6	1.55
GE80ES	GE80ES-2RS		80	120	55	45	88	400	2000	6	2.31
GE90ES	GE90ES-2RS		90	130	60	50	98	490	2450	5	2.75
GE100ES	GE100ES-2RS		100	150	70	55	109	610	3050	7	4.45
GE110ES	GE110ES-2RS		110	160	70	55	120	655	3250	6	4.82
GE120ES	GE120ES-2RS		120	180	85	70	130	950	4750	6	8.05
GE140ES	GE140ES-2RS		140	210	90	70	150	1080	5400	7	11.02
GE160ES	GE160ES-2RS		160	230	105	80	170	1370	6800	8	14.01
GE180ES	GE180ES-2RS	GE180DS	180	260	105	80	192	1530	7650	6	18.65
GE200ES	GE200ES-2RS	GE200DS	200	290	130	100	212	2120	10600	7	28.03
GE220ES	GE220ES-2RS	GE220DS	220	320	135	100	238	2320	11600	8	35.91
GE240ES	GE240ES-2RS	GE240DS	240	340	140	100	265	2.550	12700	8	39.91
GE260ES	GE260ES-2RS	GE260DS	260	370	150	110	285	3050	15300	7	51.84
GE280ES	GE280ES-2RS	GE280DS	280	400	155	120	310	3550	18000	6	65.36
GE300ES	GE300ES-2RS	GE300DS	300	430	165	120	330	3800	19000	7	78.07

SNODI SFERICI RADIALI SCANALATI CON E SENZA SCHERMI STAGNI
SPHERICAL PLAIN RADIAL BEARINGS WITH FITTING CRACK. TWO SEALS AND FITTING CRACK, FITTING GROOVE.

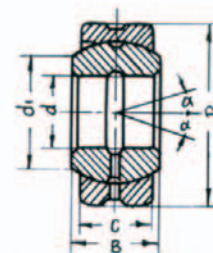


GE...ES-2RS
GEG...ES-2RS

Equivalente SKF GE...ES-2RS
GEH...ES-2RS

Equivalente INA GE...DO-2RS
GE...FO-2RS

Equivalente IKO GE...ES-2RS
GE...GS-2RS

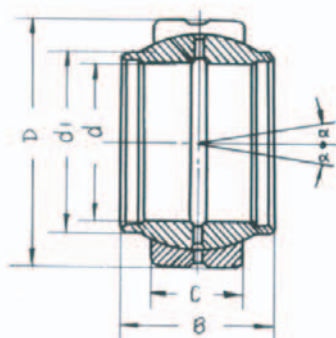


GE...DS
GEG...DS

SKF: GEH...ES GEH...ES-2RS INA: GE...FO GE...FO-2RS			Dimensioni mm Dimensions mm					Carico Ratings load		α *	Peso Weight = Kg
			d	D	B	C	d ₁ min.	Dynamic KN	Static KN		
GEG4E			4	14	7	4	7	3,4	17	20	0.0045
GEG5E			5	16	9	5	8	5,5	27	21	0.0066
GEG6E			6	16	9	5	9	5,5	27	21	0.0081
GEG8E			8	19	11	6	11	8,1	40	21	0.014
GEG10E			10	22	12	7	13	10	54	18	0.021
GEG12E			12	26	15	9	16	17	85	18	0.033
GEG15ES	GEG15ES-2RS		15	30	16	10	19	21	106	16	0.049
GEG17ES	GEG17ES-2RS		17	35	20	12	21	30	146	19	0.083
GEG20ES	GEG20ES-2RS		20	42	25	16	24	48	240	17	0.153
GEG25ES	GEG25ES-2RS		25	47	28	18	29	62	310	17	0.203
GEG30ES	GEG30ES-2RS		30	55	32	20	34	80	400	17	0.304
GEG35ES	GEG35ES-2RS		35	62	35	22	39	100	500	16	0.408
GEG40ES	GEG40ES-2RS		40	68	40	25	44	127	640	17	0.542
GEG45ES	GEG45ES-2RS		45	75	43	28	50	156	780	15	0.713
GEG50ES	GEG50ES-2RS		50	90	56	36	57	245	1220	17	1.44
GEG60ES	GEG60ES-2RS		60	105	63	40	67	315	1560	17	1.60
GEG70ES	GEG70ES-2RS		70	120	70	45	77	400	2000	16	3.01
GEG80ES	GEG80ES-2RS		80	130	75	50	87	490	2450	14	3.64
GEG90ES	GEG90ES-2RS		90	150	85	55	98	610	3050	15	5.22
GEG100ES	GEG100ES-2RS		100	160	85	55	110	655	3250	14	6.05
GEG110ES	GEG110ES-2RS		110	180	100	70	122	950	4750	12	9.68
GEG120ES	GEG120ES-2RS		120	210	115	70	132	1080	5400	16	14.72
GEG140ES	GEG140ES-2RS		140	230	130	80	151	1370	6.800	16	19.01
GEG160ES	GEG160ES-2RS	GEG160DS	160	260	135	80	176	1530	7650	16	20.02
GEG180ES	GEG180ES-2RS	GEG180DS	180	290	155	100	196	2120	10600	14	32.21
GEG200ES	GEG200ES-2RS	GEG200DS	200	320	165	100	220	2320	11600	15	45.28
GEG220ES	GEG220ES-2RS	GEG220DS	220	340	175	100	243	2550	12700	16	51.12
GEG240ES	GEG240ES-2RS	GEG240DS	240	370	190	110	263	3050	15300	15	65.12
GEG260ES	GEG260ES-2RS	GEG260DS	260	400	205	120	285	3550	18000	15	82.44
GEG280ES	GEG280ES-2RS	GEG280DS	280	430	210	120	310	3800	19000	15	97.21

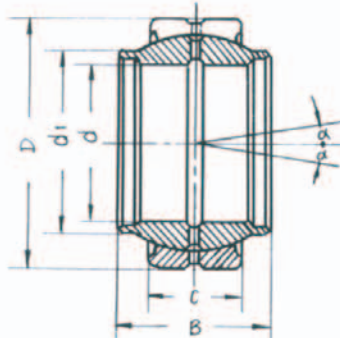
SNODI SFERICI RADIALI SCANALATI CON ANELLO INTERNO LARGO CON E SENZA SCHERMI STAGNI

SPHERICAL PLAIN RADIAL BEARINGS WITH WIDE INNER RING AND FITTING CRACK. TWO SEALS AND WIDE INNER RING AND FITTING CRACK.


GEEW...ES

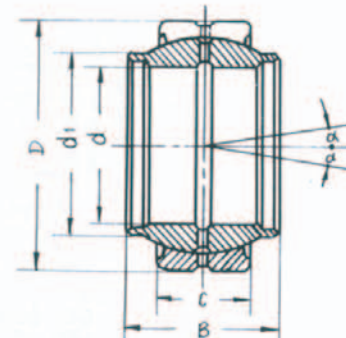
Equivalente SKF GEG...ES

Equivalente INA GE...LO


GEEW...ES-2RS

—

—


GEEM...ES-2RS

GEM...ES-2RS

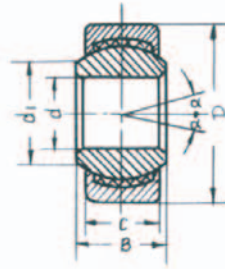
GE...HO-2RS

SKF: GEG...ES INA: GE...LO		Dimensioni mm Dimensions mm					Carico Ratings load		α *	Peso Weight = Kg
		d	D	B	C	d ₁ min.	Dynamic KN	Static KN		
GEEW12ES*	GEEW12ES-2RS*	12	22	12	7	15,5	10	54	4	0.022
GEEW15ES	GEEW15ES-2RS	15	26	15	9	18,5	17	85	5	0.031
GEEW16ES	GEEW16ES-2RS	16	28	16	9	20	17	85	4	0.035
GEEW17ES	GEEW17ES-2RS	17	30	17	10	21	21	106	7	0.044
GEEW20ES	GEEW20ES-2RS	20	35	20	12	25	30	146	4	0.071
GEEW25ES	GEEW25ES-2RS	25	42	25	16	30,5	48	240	4	0.131
GEEW30ES	GEEW30ES-2RS	30	47	30	18	34	62	310	4	0.168
GEEW32ES	GEEW32ES-2RS	32	52	32	18	37	62	310	4	0.182
GEEW35ES	GEEW35ES-2RS	35	55	35	20	40	80	400	4	0.253
GEEW40ES	GEEW40ES-2RS	40	62	40	22	46	100	500	4	0.338
GEEW45ES	GEEW45ES-2RS	45	68	45	25	52	127	640	4	0.481
GEEW50ES	GEEW50ES-2RS	50	75	50	28	57	156	780	4	0.558
GEEW60ES	GEEW60ES-2RS	60	90	60	36	68	245	1220	3	1.15
GEEW63ES	GEEW63ES-2RS	63	95	63	36	71,5	245	1220	4	1.23
GEEW70ES	GEEW70ES-2RS	70	105	70	40	78	315	1560	4	1.71
GEEW80ES	GEEW80ES-2RS	80	120	80	45	91	400	2000	4	2.39
GEEW100ES	GEEW100ES-2RS	100	150	100	55	113	610	3050	4	4.80
GEEW125ES	GEEW125ES-2RS	125	180	125	70	138	950	4750	4	8,50

* Scanalatura e foro lubrificazione solo sull'anello esterno — A lubrication groove and holes in the outer ring only.

SKF: GEM...ES-2RS INA: GE...HO-2RS		Dimensioni mm Dimensions mm					Carico Ratings load		α *	Peso Weight = Kg
		d	D	B	C	d ₁ max	Dynamic KN	Static KN		
GEEM20ES-2RS		20	35	24	12	24	30	146	6	0.073
GEEM25ES-2RS		25	42	29	16	29	48	240	4	0.13
GEEM30ES-2RS		30	47	30	18	34	62	310	4	0.17
GEEM35ES-2RS		35	55	35	20	40	80	400	4	0.25
GEEM40ES-2RS		40	62	38	22	45	100	500	4	0.35
GEEM45ES-2RS		45	68	40	25	52	127	640	4	0.49
GEEM50ES-2RS		50	75	43	28	57	156	780	4	0.60
GEEM60ES-2RS		60	90	54	36	68	245	1220	3	1.15
GEEM70ES-2RS		70	105	65	40	78	315	1560	4	1.65
GEEM80ES-2RS		80	120	74	45	90	400	2000	4	2.50

SNODI SFERICI RADIALI ESENTI DA MANUTENZIONE
MAINTENANCE-FREE SPHERICAL PLAIN RADIAL BEARINGS.



GE...C
 GE...ET-2RS

Equivalente SKF GE...C
 GE...L-2RS
 Equivalente INA GE...UK
 GE...UK-2RS
 Equivalente IKO GE...EC
 GE...EC-2RS

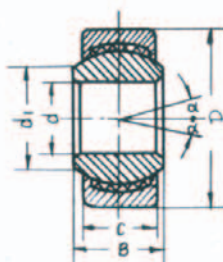
SKF: GE...C INA: GE...UK	Dimensioni mm Dimensions mm					Carico Ratings load		α *	Peso Weight = Kg
	d	D	B	C	d ₁ min.	Dynamic KN	Static KN		
GE4C	4	12	5	3	6	2.1	5.4	16	0.0033
GE5C	5	14	6	4	7	3.6	9.1	13	0.0038
GE6C	6	14	6	4	8	3.6	9.1	13	0.0042
GE8C	8	16	8	5	10	5.8	14	15	0.0075
GE10C	10	19	9	6	13	8.6	21	12	0.011
GE12C	12	22	10	7	15	11	28	10	0.015
GE15C	15	26	12	9	18	18	45	8	0.027
GE17C	17	30	14	10	20	22	56	10	0.041
GE20C	20	35	16	12	24	31	78	9	0.066
GE25C	25	42	20	16	29	51	127	7	0.119
GE30C	30	47	22	18	34	65	166	6	0.163

SKF: GE...L-2RS INA: GE...UK-2RS	Dimensioni mm Dimensions mm					Carico Ratings load		α *	Peso Weight = Kg
	d	D	B	C	d ₁ min.	Dynamic KN	Static KN		
GE20ET-2RS	20	35	16	12	24	31	78	9	0.066
GE25ET-2RS	25	42	20	16	29	51	127	7	0.119
GE30ET-2RS	30	47	22	18	34	65	166	6	0.163
GE35ET-2RS	35	55	25	20	—	110	220	6	0.25
GE40ET-2RS	40	62	28	22	—	140	280	6	0.30
GE45ET-2RS	45	68	32	25	—	180	350	6	0.35
GE50ET-2RS	50	75	35	28	—	220	430	6	0.50
GE60ET-2RS	60	90	44	36	—	340	690	6	1.00
GE70ET-2RS	70	105	49	40	—	430	870	6	1.40
GE80ET-2RS	80	120	55	45	—	560	1140	6	2.00
GE90ET-2RS	90	130	60	50	—	690	1350	6	2.50
GE100ET-2RS	100	150	70	55	—	850	1700	6	4.00
GE110ET-2RS	110	160	70	55	—	900	1850	6	4.50
GE120ET-2RS	120	180	85	70	—	1300	2700	6	7.20
GE140ET-2RS	140	210	90	70	—	1500	3000	6	10.00

ET/C = Accoppiamento acciaio su bronzo sinterizzato con PTFE

ET/C = To line SF1 material on the surface of spherical plain.

SNODI SFERICI RADIALI ESENTI DA MANUTENZIONE **MAINTENANCE-FREE SPHERICAL PLAIN RADIAL BEARINGS.**



GEG...C
GEG...ET-2RS

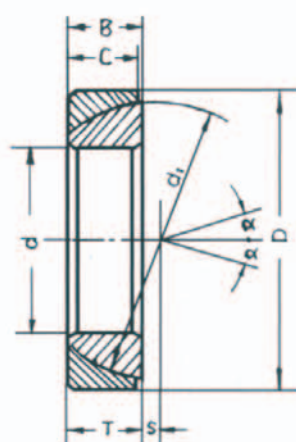
Equivalente SKF GEH...C
 GEH...C-2RS
 Equivalente INA GE...FW
 GE...FW-2RS
 Equivalente IKO GE...GC
 GE...GC-2RS

SKF: GEH...C INA: GE...FW	Dimensioni mm Dimensions mm					Carico Ratings load		α *	Peso Weight = Kg
	d	D	B	C	d ₁ min.	Dynamic KN	Static KN		
GEG4C	4	14	7	4	7	3.6	9.1	20	0.0045
GEG5C	5	16	9	5	8	5.8	14	21	0.0066
GEG6C	6	16	9	5	9	5.8	14	21	0.0081
GEG8C	8	19	11	6	11	8.8	21	21	0.014
GEG10C	10	22	12	7	13	11	28	18	0.021
GEG12C	12	26	15	9	16	18	45	18	0.033
GEG15C	15	30	16	10	19	22	56	16	0.049
GEG17C	17	35	20	12	21	31	78	19	0.083
GEG20C	20	42	25	16	24	51	127	17	0.153
GEG25C	25	47	28	18	29	65	166	17	0.203
GEG30C	30	55	32	20	34	83	212	17	0.304

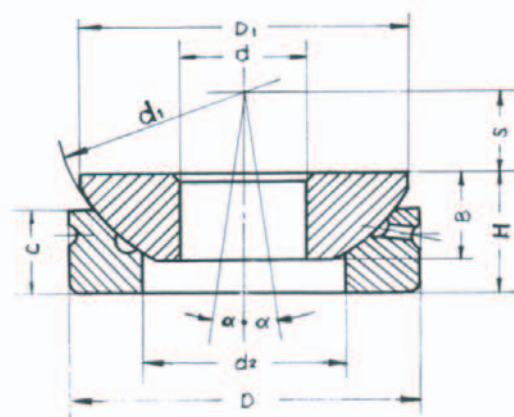
SKF: GEH...C-2RS INA: GE...FW-2RS	Dimensioni mm Dimensions mm					Carico Ratings load		α *	Peso Weight = Kg
	d	D	B	C	d ₁ min.	Dynamic KN	Static KN		
GEG30ET-2RS	30	55	32	20	—	110	220	17	0.30
GEG35ET-2RS	35	62	35	22	—	140	270	17	0.35
GEG40ET-2RS	40	68	40	25	—	180	350	15	0.50
GEG45ET-2RS	45	75	43	28	—	220	430	15	0.60
GEG50ET-2RS	50	90	56	36	—	340	680	15	1.40
GEG60ET-2RS	60	105	63	40	—	430	850	15	2.00
GEG70ET-2RS	70	120	70	45	—	550	1100	16	2.80
GEG80ET-2RS	80	130	75	50	—	680	1350	14	3.40
GEG90ET-2RS	90	150	85	55	—	850	1700	15	5.00
GEG100ET-2RS	100	160	85	55	—	900	1800	14	5.50
GEG110ET-2RS	110	180	100	70	—	1300	2700	12	9.00
GEG120ET-2RS	120	210	115	70	—	1500	3000	15	14.50
GEG140ET-2RS	140	230	130	80	—	1900	3500	15	18.20

ET/C = Accoppiamento acciaio su bronzo sinterizzato con PTFE

ET/C = To line SF1 material on the surface of spherical plain.

SNODI SFERICI A CONTATTO OBLIQUO
ANGULAR CONTACT SPHERICAL PLAIN
BEARINGS


Equivalent SKF **GAC...S**
 Equivalent INA **GAC...F**
 Equivalent GE...SX

SNODI SFERICI ASSIALI
SPHERICAL PLAIN THRUST BEARINGS


Equivalent SKF **GX...S**
 Equivalent INA **GX...F**
 Equivalent GE...AX

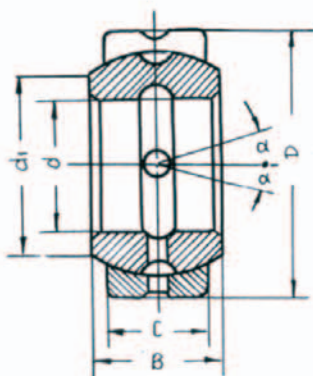
SKF: GAC...F INA: GE...SX	Dimensioni mm Dimensions mm							Carico Ratings load		α^* =	Peso Weight = Kg
	d	D	B	C	T	d ₁	S	Dynamic KN	Static KN		
GAC25S	25	47	15	14	15	42	0.6	47.5	236	3.5	0.148
GAC30S	30	55	17	15	17	49.5	1.3	63	315	3	0.208
GAC35S	35	62	18	16	18	55.5	2.1	76.5	390	3	0.268
GAC40S	40	68	19	17	19	62	2.8	90	450	3	0.327
GAC45S	45	75	20	18	20	68.5	3.5	106	530	3	0.416
GAC50S	50	80	20	19	20	74	4.3	118	585	3	0.455
GAC60S	60	95	23	21	23	88.5	5.7	160	800	3	0.714
GAC70S	70	110	25	23	25	102	7.2	208	1040	2.5	1.04
GAC80S	80	125	29	25.5	29	115	8.6	250	1250	2.5	1.54
GAC90S	90	140	32	28	32	128.5	10.1	320	1600	2.5	2.09
GAC100S	100	150	32	31	32	141	11.6	345	1760	2	2.34
GAC110S	110	170	38	34	38	155	13	475	2360	2	3.68
GAC120S	120	180	38	37	38	168	14.5	510	2550	2	3.97

Su richiesta sono fornibili con accoppiamento acciaio/PTFE esempio GAC...C
 On request are supplying on sliding contact surface steel/PTFE example GAC...C

SKF: GX...F INA: GE...AX	Dimensioni mm Dimensions mm									Carico Ratings load		α^* =	Peso Weight = Kg
	d	D	H	B	C	d ₁	d ₂	D ₁	S	Dynamic KN	Static KN		
GX10S	10	30	9.5	7.5	7	32	15.5	27.5	7	24	120	9	0.036
GX12S	12	35	13	9.5	9.3	38	18	32	8	32.5	163	8	0.072
GX15S	15	42	15	11	10.8	46	22.5	39	10	52	260	8	0.108
GX17S	17	47	16	11.8	11.2	52	27	43.5	11	58.5	300	10	0.137
GX20S	20	55	20	14.5	13.8	60	31	50	12.5	75	375	9	0.246
GX25S	25	62	22.5	16.5	16.7	68	34.5	58.5	14	129	640	7	0.415
GX30S	30	75	26	19	19	82	42	70	17.5	170	850	7	0.614
GX35S	35	90	28	22	20.7	98	50.5	84	2.2	260	1290	8	0.973
GX40S	40	105	32	27	21.5	114	59	97	24.5	375	1860	9	1.59
GX45S	45	120	36.5	31	25.5	128	67	110	27.5	490	2450	9	2.24
GX50S	50	130	42.5	33	30.5	139	70	120	30	655	3250	7	3.14
GX60S	60	150	45	37	34	160	84	140	35	735	3650	8	4.63
GX70S	70	160	50	42	36.5	176	94.5	153	35	800	4050	8	5.37
GX80S	80	180	50	43.5	38	197	107.5	172	42.5	1040	5200	8	6.91
GX100S	100	210	59	51	46	222	127	198	45	1200	6000	8	10.98
GX120S	120	230	64	53.5	50	250	145	220	52.5	1250	6200	6	13.97

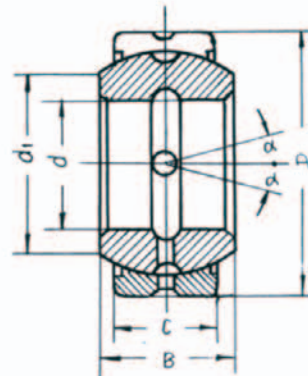
Su richiesta sono fornibili con accoppiamento acciaio/PTFE esempio GX...C
 On request are supplying on sliding contact surface steel/PTFE example GX...C

SNODI SFERICI RADIALI SCANALATI CON E SENZA SCHERMI STAGNI
SPHERICAL PLAIN RADIAL BEARINGS DIMENSION IN INCHES WITH FITTING CRACK
TWO SEALS AND FITTING CRACK.



GEZ...ES

Equivalente SKF GEZ...ES
 Equivalente INA GE...ZO
 Equivalente IKO SBB...

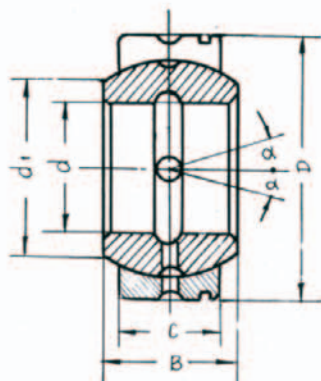


GEZ...ES-2RS

GEZ...ES 2RS
 GE...ZO 2RS
 SBB...2RS

SKF: GEZ...ES GEZ...ES-2RS INA: GE...ZO GE...ZO-2RS		Dimensioni mm Dimensions mm					Carico Ratings load		α * =	Peso Weight = Kg
		d	D	B	C	d ₁ min.	Dynamic KN	Static KN		
GEZ12ES		12.7	22.225	11.1	9.525	14.1	13.7	41.5	6	0,022
GEZ15ES		15.875	26.988	13.894	11.913	18.3	22.0	65.5	6	0.036
GEZ19ES		19.05	31.75	16.662	14.275	21.8	31.5	95.0	6	0.053
GEZ22ES		22.225	36.513	19.431	16.662	25.4	4.25	127	6	0.085
GEZ25ES	GEZ25ES-2RS	25.4	41.275	22.225	19.05	27.6	56.0	166	6	0.121
GEZ31ES	GEZ31ES-2RS	31.75	50.8	27.762	23.8	36.0	86.5	260	6	0.232
GEZ34ES	GEZ34ES-2RS	34.925	55.563	30.15	26.187	38.6	102	310	6	0.351
GEZ38ES	GEZ38ES-2RS	38.1	61.913	33.325	28.575	41.2	125	375	6	0.422
GEZ44ES	GEZ44ES-2RS	44.45	71.438	38.887	33.325	50.7	170	510	6	0.641
GEZ50ES	GEZ50ES-2RS	50.8	80.963	44.45	38.1	57.9	224	670	6	0.932
GEZ57ES	GEZ57ES-2RS	57.15	90.488	50.013	42.85	64.9	280	850	6	1,33
GEZ63ES	GEZ63ES-2RS	63.5	100.013	55.55	47.625	73.3	355	1060	6	1.85
GEZ69ES	GEZ69ES-2RS	69.85	111.125	61.112	52.375	79.1	415	1250	6	2.42
GEZ76ES	GEZ76ES-2RS	76.2	120.65	66.675	57.15	86.8	500	1500	6	3.10
GEZ82ES	GEZ82ES-2RS	82.55	130.175	72.238	61.9	94.5	585	1760	6	3.82
GEZ88ES	GEZ88ES-2RS	88.9	139.7	77.775	66.675	101.6	680	2040	6	4.79
GEZ95ES	GEZ95ES-2RS	95.25	149.225	83.337	71.425	108.7	780	2360	6	5.78
GEZ101ES	GEZ101ES-2RS	101.6	158.75	88.9	76.2	115.8	900	2650	6	6.99
GEZ107ES	GEZ107ES-2RS	107.95	168.275	94.463	80.95	122.8	1000	3000	6	8.41
GEZ114ES	GEZ114ES-2RS	114.3	177.8	100.013	85.725	130.6	1120	3400	6	9.79
GEZ120ES	GEZ120ES-2RS	120.65	187.325	105.562	90.475	137.6	1250	3750	6	11.5
GEZ127ES	GEZ127ES-2RS	127	196.85	111.125	95.25	145.3	1400	4150	6	13.5
GEZ152ES	GEZ152ES-2RS	152.4	222.25	120.65	104.775	168.2	1730	5200	5	17.5

SNODI SFERICI RADIALI IN DUE PEZZI
SPHERICAL PLAIN RADIAL BEARINGS WITH TWO-PIECES

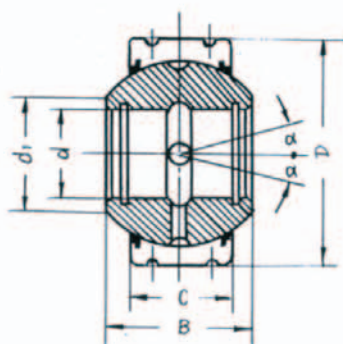


GE...XS-K

Equivalente IKO SB...

	Dimensioni mm Dimensions mm					Carico Ratings load		α *	Peso Weight = Kg
	d	D	B	C	d ₁ min.	Dynamic KN	Static KN		
GE12XS K	12	22	11	9	14	12.9	39.2	7	0.019
GE15XS K	15	26	13	11	17.5	19.5	57.8	6	0.028
GE20XS K	20	32	16	14	23	31.3	94.8	4	0.053
GE22XS K	22	37	19	16	25.5	40.3	122	6	0.085
GE25XS K	25	42	21	18	29	51.1	155	5	0.116
GE30XS K	30	50	27	23	36	81.2	248	6	0.225
GE35XS K	35	55	30	26	40	103	314	5	0.302
GE40XS K	40	62	33	28	44	122	370	6	0.375
GE45XS K	45	72	36	31	50.5	152	461	5	0.598
GE50XS K	50	80	42	36	58.5	225	622	5	0.869
GE55XS K	55	90	47	40	64.5	253	768	6	1.26
GE60XS K	60	100	53	45	72.5	321	980	6	1.72
GE65XS K	65	105	55	47	76	350	1060	5	2.05
GE70XS K	70	110	58	50	81.5	396	1220	5	2.23
GE75XS K	75	120	64	55	89.5	478	1450	5	3.01
GE80XS K	80	130	70	60	97.5	571	1730	5	3.98
GE85XS K	85	135	74	63	100.5	624	1890	6	4.31
GE90XS K	90	140	76	65	105.5	670	2030	5	4.72
GE95XS K	95	150	82	70	113.5	776	2350	5	6.05
GE100XS K	100	160	88	75	121.5	891	2700	5	7.43
GE110XS K	110	170	93	80	130	1010	3070	5	8.54
GE115XS K	115	180	98	85	132.5	1110	3370	5	10.3
GE120XS K	120	190	105	90	140	1250	3780	6	12.4
GE130XS K	130	200	110	95	148.5	1390	4220	5	13.8
GE150XS K	150	220	120	105	166	1710	5170	5	17.1

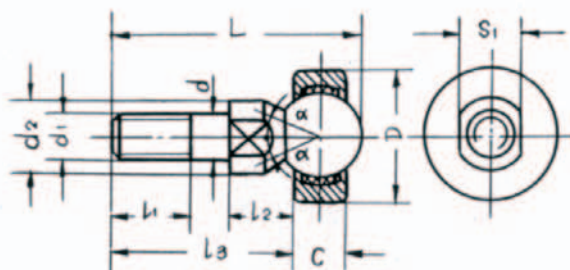
SNODI SFERICI RADIALI IN DUE PEZZI CON SCHERMI STAGNI
SPHERICAL PLAIN RADIAL BEARINGS WITH TWO SEALS AND TWO-PIECE



GEK...XS-2RS

	Dimensioni mm Dimensions mm					Carico Ratings load		α * =	Peso Weight = Kg
	d	D	B	C	d ₁ min.	Dynamic KN	Static KN		
GEK25XS-2RS	25	68	40	28	30	117	590	19	0.516
GEK30XS-2RS	30	70	47	32	37.3	163	813	19	0.785
GEK35XS-2RS	35	80	54	38	44.5	226	1130	17	1.23
GEK40XS-2RS	40	90	64	44	48	298	1490	19	1.83
GEK45XS-2RS	45	100	72	52	54	398	1990	17	2.56
GEK50XS-2RS	50	110	80	58	60	493	2450	17	3.43
GEK55XS-2RS	55	125	90	64	63.2	598	2990	19	5.02
GEK60XS-2RS	60	135	98	72	69.3	732	3660	17	6.43

SNODI SFERICI CON GAMBO
BALL JOINT ROD ENDS WITH ONE SHANK



SQD...C

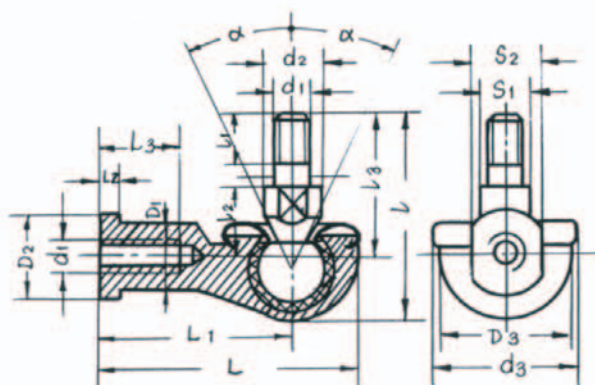
	Dimensioni mm Dimensions mm										Carico Ratings load		α *	Peso Weight = Kg
	d	d ₁	d ₂ min	L max	l ₁ min	l ₂	l ₃ max	S ₁	C	D	Dynamic KN	Static KN	=	
SQD5C	5	M5	9	27.5	8	8	19	7	6	16	2.4	6.2	25	0.014
SQD6C	6	M6	10	33.5	11	8.8	23.8	8	6.75	18	3.2	8.1	25	0.021
SQD8C	8	M8	12	41	12	11.6	28.6	10	9	22	5.5	14	25	0.042
SQD10C	10	M10x1.25	14	49	15	14.2	34.2	11	10.5	26	7.8	20	25	0.067
SQD12C	12	M12x1.25	19	55.1	17	15.1	38.1	16	12	30	10	27	25	0.108
SQD14C	14	M14x1.5	19	70.7	22	16.8	51.3	16	13.5	34	13	35	20	0.167
SQD16C	16	M16x1.5	22	76.3	23	18	54.5	18	15	38	17	45	20	0.238

Accoppiamento acciaio su bronzo sinterizzato con PTFE
 To line SF1 material on the surface of spherical plain.

Le misure non sono impegnative - The size are not binding.

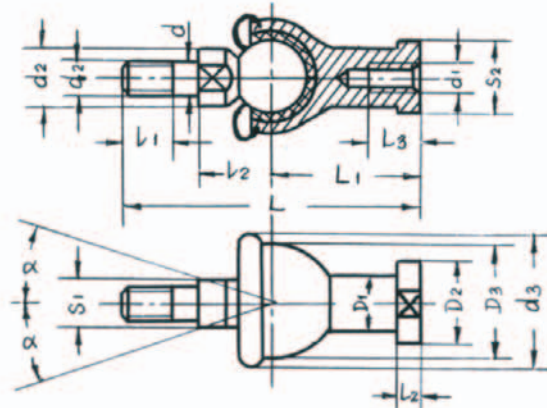
ARTICOLAZIONI SFERICHE ANGOLARI
WINDING SHAPE BALL JOINT ROD ENDS

ARTICOLAZIONI SFERICHE DIRITTE
STRAIGHT BALL JOINT ROD ENDS



SQ...C-RS

Equivalente THK RBL



SQZ...C-RS

Equivalente THK RBL

		Dimensioni mm Dimensions mm																	Carico Ratings load		α =	Peso Weight = kg
		d	d ₁	d ₂ min	d ₃ max	i max	l ₁ min	l ₂	l ₃ max	S ₁	L max	L ₁	L ₂ max	L ₃ min	D ₁ max	D ₂ max	D ₃ max	S ₂	Dynamic KN	Static KN		
SQ5C	SQ5C-RS	5	M5	9	20	30	8	10	21	7	36	27	4	14	9	12	18	10	2.7	9.2	25	0.026
SQ6C	SQ6C-RS	6	M6	10	20	36	11	11	26	8	40.5	30	5	14	10	13	20	10	3.6	12	25	0.039
SQ8C	SQ8C-RS	8	M8	12	24	43.5	12	14	31	10	49	36	5	17	12.5	16	25	13	5.7	19	25	0.068
SQ10C	SQ10C-RS	10	M10x1.25	14	30	51.5	15	17	37	11	58	43	6.5	21	15	19	29	16	8.2	27	25	0.112
SQ12C	SQ12C-RS	12	M12x1.25	19	32	57.5	17	19	42	16	66	50	6.5	25	17.5	22	31	18	11	37	25	0.164
SQ14C	SQ14C-RS	14	M14x1.5	19	38	73.5	22	21.5	56	16	75	57	8	26	20	25	35	21	14	48	25	0.254
SQ16C	SQ16C-RS	16	M16x1.5	22	44	79.5	23	23.5	60	18	84	64	8	32	22	27	39	24	16	53	20	0.336
SQ18C	SQ18C-RS	18	M18x1.5	25	45	90	25	26.5	68	21	93	71	10	34	25	31	44	27	18	61	20	0.464
SQ20C	SQ20C-RS	20	M20x1.5	29	50	90	25	27	68	24	99	77	10	35	27.5	34	44	30	18	61	20	0.538
SQ22C	SQ22C-RS	22	M22x1.5	29	52	95	26	28	70	24	109	84	12	41	30	37	50	30	22	75	16	0.713

C = Accoppiamento acciaio su bronzo sinterizzato con PTFE — Per filettatura sinistra aggiungerete il suffisso «L» es.: SQL...C.
SQ10-SQ12-SQ14-SQ16 Fornibili anche con passo M1,5 (SQ10 e 12) e M2 (SQ14 e 16).

Available with thread M1,5 (SQ10 and SQ12) and M2 (SQ14 and SQ16).

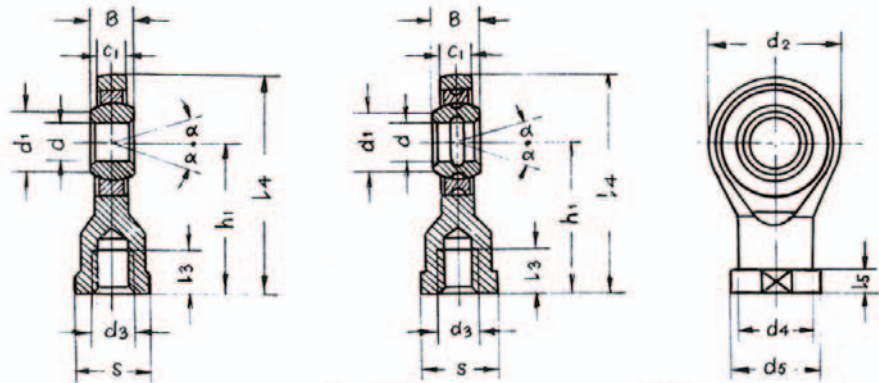
C = To line SF1 material on the surface of spherical plain — The shank of ball joint housing may be left-hand thread, for left-hand thread, suffix «L» is added to bearings number and thread sign. e.g. SQL6C, M6L-6H.

		Dimensioni mm Dimensions mm														Carico Ratings load		α *	Peso Weight = Kg	
		d	d ₁	d ₂ min	d ₃ max	l ₁ min	l ₂	S ₁	L max	L ₁	L ₂ max	L ₃ min	D ₁ max	D ₂ max	D ₃ max	S ₂	Dynamic KN			Static KN
SQZ5C	SQZ5C-RS	5	M5	9	20	8	11	7	46	24	4	12	9	12	17	10	1.7	5.7	15	0.025
SQZ6C	SQZ6C-RS	6	M6	10	20	11	12.2	8	55.2	28	5	15	10	13	20	10	2.2	7.5	15	0.040
SQZ8C	SQZ8C-RS	8	M8	12	24	12	16	10	65	32	5	16	12.5	16	24	13	3.3	11	15	0.075
SQZ10C	SQZ10C-RS	10	M10x1.25	14	30	15	19.5	11	74.5	35	6.5	18	15	19	28	16	4.8	16	15	0.121
SQZ12C	SQZ12C-RS	12	M12x1.25	19	32	17	21	16	84	40	6.5	20	17.5	22	32	18	6.6	22	15	0.187
SQZ14C	SQZ14C-RS	14	M14x1.5	19	38	22	23.5	16	104.5	45	8	25	20	25	36	21	8.7	29	11	0.277
SQZ16C	SQZ16C-RS	16	M16x1.5	22	44	23	25.5	18	112	50	8	27	22	27	40	24	10	33	11	0.361
SQZ18C	SQZ18C-RS	18	M18x1.5	25	45	25	31	21	130.5	58	10	32	25	31	45	27	11	37	11	0.539
SQZ20C	SQZ20C-RS	20	M20x1.5	29	50	25	31	24	133	63	10	38	27.5	34	45	30	11	37	7.5	0.575
SQZ22C	SQZ22C-RS	22	M22x1.5	29	52	26	33	24	145	70	12	43	30	37	50	30	14	46	7.5	0.757

C = Accoppiamento acciaio su bronzo sinterizzato con PTFE — Per filettatura sinistra aggiungerete il suffisso «L» es.: SQZL...C

C = To line SF1 material on the surface of spherical plain — The shank of ball joint housing may be left-hand thread. For left-hand thread, suffix «L» is added to bearings number and thread sign. e.g. SQZL5C, M5L-6H.

TESTE A SNODO — COMBINATION (SERIES E) ROD ENDS



SI...E/ES
SI...ES-2RS
SI...E
SI...ES/SIA...ES
GIR...DO
GIR...DO-2RS

Equivalente SKF
Equivalente INA

SI...C
SI...C-2RS
SI...C
SIA...TE-2RS
GIR...UK
GIR...UK-2RS

FEMMINA - FEMALE

SKF: SI...E INA: GIR...DO GIR...DO-2RS		Dimensioni mm Dimensions mm														Carico Ratings load		α^* =	Peso Weight = Kg
		d	B	C ₁ max	d ₁ min	d ₂ max	d ₃	h ₁	l ₃ min.	l ₄ max	l ₅ max	d ₄ max	d ₅ max	S	Dynamic KN	Static KN			
SI5E		5	6	4.5	7	21	M5	30	11	42	5	10	13	10	3.4	8.1	13	0.016	
SI6E		6	6	4.5	8	21	M6	30	11	42	5	11	13	11	3.4	8.1	13	0.017	
SI8E		8	8	6.5	10	24	M8	36	15	49	5	13	16	13	5.5	12.9	15	0.035	
SI10E		10	9	7.5	13	29	M10	43	15	58	6.5	16	19	16	8.1	17.6	12	0.061	
SI12E		12	10	8.5	15	34	M12	50	18	67	7	18	22	18	10.8	24.5	10	0.096	
SI15ES	SI15ES-2RS	15	12	10.5	18	40	M14	61	21	81	8	21	26	21	17	36	8	0.162	
SI17ES	SI17ES-2RS	17	14	11.5	20	46	M16	67	24	90	10	24	29	24	21	45	10	0.233	
SI20ES	SI20ES-2RS	20	16	13.5	24	53	M20x1.5	77	30	104	10	28	34	30	30	60	9	0.324	
SI25ES	SI25ES-2RS	25	20	18	29	64	M24x2	94	36	126	12	35	42	36	48	83	7	0.625	
SI30ES	SI30ES-2RS	30	22	20	34	73	M30x2	110	45	147	15	42	50	46	62	110	6	0.976	
SI35ES	SI35ES-2RS	35	25	22	39	82	M36x3	125	60	167	15	48	58	55	80	146	6	1.52	
SI40ES	SI40ES-2RS	40	28	24	45	92	M39x3	142	65	190	18	52	65	60	100	180	7	2.06	
SI45ES	SI45ES-2RS	45	32	28	50	102	M42x3	145	65	199	20	58	70	65	127	240	7	2.72	
SI50ES	SI50ES-2RS	50	35	31	55	112	M45x3	160	68	221	20	62	75	70	156	290	6	3.57	
SI60ES	SI60ES-2RS	60	44	39	66	135	M52x3	175	70	247	20	70	88	80	245	450	6	5.63	
SI70ES	SI70ES-2RS	70	49	43	77	160	M56x4	200	80	283	20	80	98	85	315	610	6	8.33	
SI80ES	SI80ES-2RS	80	55	48	88	180	M64x4	230	85	325	25	95	110	95	400	750	6	13.04	

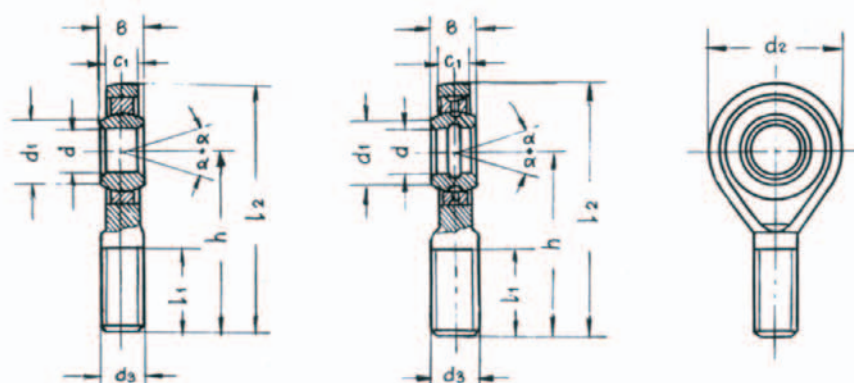
Per filettatura sinistra aggiungere il suffisso «L» es. SI...ES — For left hand thread, Suffix «L» is added to bearings number and thread sign. eg. SI30ES. Accoppiamento: acciaio/acciaio — Sliding contact surface: steel/steel. Fornibile con filetto maggiorato — Available with increased thread.

FEMMINA - FEMALE

SKF: SI...C SI...TE-2RS INA: GIR...UK GIR...UK-2RS		Dimensioni mm Dimensions mm													Carico Ratings load		α^* =	Peso Weight = Kg
		d	B	C ₁ max	d ₁ min	d ₂ max	d ₃	h ₁	l ₃ min.	l ₄ max	l ₅ max	d ₄ max	d ₅ max	S	Dynamic KN	Static KN		
SI6C		6	6	4.5	8	21	M6	30	11	42	5	11	13	11	3.4	8.1	13	0.017
SI8C		8	8	6.5	10	24	M8	36	15	49	5	13	16	13	5.5	12.9	15	0.035
SI10C		10	9	7.5	13	29	M10	43	15	58	6.5	16	19	16	8.1	17.6	12	0.061
SI12C		12	10	8.5	15	34	M12	50	18	67	7	18	22	18	10.8	24.5	10	0.096
SI15C		15	12	10.5	18	40	M14	61	21	81	8	21	26	21	17	36	8	0.162
SI17C		17	14	11.5	20	48	M16	67	24	90	10	24	29	24	21	45	10	0.233
SI20C		20	16	13.5	24	53	M20x1.5	77	30	104	10	28	34	30	30	60	9	0.324
SI25C		25	20	18	29	64	M24x2	94	36	126	12	35	42	36	48	83	7	0.625
SI30C		30	22	20	34	73	M30x2	110	45	147	15	42	50	46	62	110	6	0.976
	SI35C-2RS	35	25	22	39	82	M36x3	125	60	167	15	48	58	55	80	146	6	1.52
	SI40C-2RS	40	28	24	45	92	M39x3	142	65	190	18	52	65	60	100	180	7	2.06
	SI45C-2RS	45	32	28	50	102	M42x3	145	65	199	20	58	70	65	127	240	7	2.72
	SI50C-2RS	50	35	31	55	112	M45x3	160	68	221	20	62	75	70	156	290	6	3.57
	SI60C-2RS	60	44	39	66	135	M52x3	175	70	247	20	70	88	80	245	450	6	5.63
	SI70C-2RS	70	49	43	77	160	M56x4	200	80	283	20	80	98	85	315	610	6	8.33
	SI80C-2RS	80	55	48	88	180	M64x4	230	85	325	25	95	110	95	400	750	6	13.04

Per filettatura sinistra aggiungere il suffisso «L» es. SI...ES — For left hand thread, Suffix «L» is added to bearings number and thread sign. eg. SI30ES. Accoppiamento: acciaio/PTFE — Sliding contact surface: steel/PTFE.

TESTE A SNODO — COMBINATION (SERIES E) ROD ENDS



SA...E/ES
SA...ES-2RS
SA...E
SA...ES/SAA...ES
GAR...DO
GAR...DO-2RS

Equivalent SKF

Equivalent INA

SA...C
SA...C-2RS
SA...C
SAA...TE-2RS
GAR...UK
GAR...UK-2RS

MASCHIO - MALE

SKF: SA...E INA: GAR...DO GAR...DO-2RS		Dimensioni mm Dimensions mm									Carico Ratings load		α °	Peso Weight = Kg
		d	B	C ₁ max	d ₁ min	d ₂ max	d ₃	h	l ₁ min.	l ₂ max	Dynamic KN	Static KN		
SA5E		5	6	4.5	7	21	M5	36	16	48	3.4	8.1	1	0.011
SA6E		6	6	4.5	8	21	M6	36	16	48	3.4	8.1	13	0.013
SA8E		8	8	6.5	10	24	M8	42	21	55	5.5	12.9	15	0.026
SA10E		10	9	7.5	13	29	M10	48	26	63	8.1	17.8	12	0.044
SA12E		12	10	8.5	15	34	M12	54	28	71	10.8	24.5	10	0.066
SA15ES	SA15ES-2RS	15	12	10.5	18	40	M14	63	34	83	17	36	8	0.121
SA17ES	SA17ES-2RS	17	14	11.5	20	46	M16	69	36	92	21	45	10	0.172
SA20ES	SA20ES-2RS	20	16	13.5	24	53	M20x1.5	78	43	105	30	60	9	0.283
SA25ES	SA25ES-2RS	25	20	18	29	64	M24x2	94	53	126	48	83	7	0.504
SA30ES	SA30ES-2RS	30	22	20	34	73	M30x2	110	65	147	62	110	6	0.835
SA35ES	SA35ES-2RS	35	25	22	39	82	M36x3	140	82	182	80	148	6	1.41
SA40ES	SA40ES-2RS	40	28	24	45	92	M39x3	150	86	198	100	180	7	1.86
SA45ES	SA45ES-2RS	45	32	28	50	102	M42x3	163	92	217	127	240	7	2.57
SA50ES	SA50ES-2RS	50	35	31	55	112	M45x3	185	104	246	156	290	6	3.58
SA60ES	SA60ES-2RS	60	44	39	66	135	M52x3	210	115	282	245	450	6	5.73
SA70ES	SA70ES-2RS	70	49	43	77	160	M56x4	235	125	318	315	610	6	7.94
SA80ES	SA80ES-2RS	80	55	48	88	180	M64x4	270	140	365	400	750	6	12.06

Per filettatura sinistra aggiungere il suffisso «L» es. SAL...ES — For left hand thread, Suffix «L» is added to bearings number and thread sign. eg. SAL30ES. Accoppiamento: acciaio/acciaio — Sliding contact surface: steel/steel. Fornibile con filetto maggiorato — Available with increased thread.

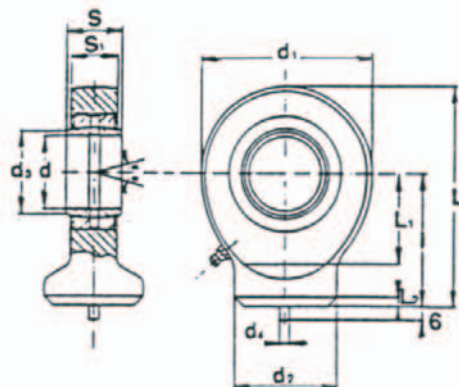
MASCHIO - MALE

SKF: SA...C SA...TE-2RS INA: GAR...UK GAR...UK-2RS		Dimensioni mm Dimensions mm									Carico Ratings load		α °	Peso Weight = Kg
		d	B	C ₁ max	d ₁ min	d ₂ max	d ₃	h	l ₁ min.	l ₂ max	Dynamic KN	Static KN		
SA6C		6	6	4.5	8	21	M6	42	21	48	3.4	8.1	13	0.013
SA8C		8	8	6.5	10	24	M8	42	21	55	5.5	12.9	15	0.026
SA10C		10	9	7.5	13	29	M10	48	26	63	8.1	17.6	12	0.044
SA12C		12	10	8.5	15	34	M12	54	28	71	10.8	24.5	10	0.066
SA15C		15	12	10.5	18	40	M14	63	34	83	17	36	8	0.121
SA17C		17	14	11.5	20	46	M16	69	36	92	21	45	10	0.172
SA20C		20	16	13.5	24	53	M20x1.5	78	43	105	30	60	9	0.283
SA25C		25	20	18	29	64	M24x2	94	53	126	48	83	7	0.504
SA30C		30	22	20	34	73	M30x2	110	65	147	62	110	6	0.835
	SA35C-2RS	35	25	22	39	82	M36x3	140	82	182	80	146	6	1.41
	SA40C-2RS	40	28	24	45	92	M39x3	150	86	198	100	180	7	1.86
	SA45C-2RS	45	32	28	50	102	M42x3	163	92	217	127	240	7	2.57
	SA50C-2RS	50	35	31	55	112	M45x3	185	104	246	156	290	6	3.58
	SA60C-2RS	60	44	39	66	135	M52x3	210	115	282	245	450	6	5.73
	SA70C-2RS	70	49	43	77	160	M56x4	235	125	318	315	610	6	7.94
	SA80C-2RS	80	55	48	88	180	M64x4	270	140	365	400	750	6	12.06

Per filettatura sinistra aggiungere il suffisso «L» es. SAL...ES — For left hand thread, Suffix «L» is added to bearings number and thread sign. eg. SAL30ES. Accoppiamento: acciaio/PTFE — Sliding contact surface: steel/PTFE.

TESTE A SNODO PER IDRAULICA (DIN 648)
Accoppiamento di strisciamento: acciaio/acciaio

ROD ENDS FOR HYDRAULIC COMPONENTS
Contacting surface: steel/steel

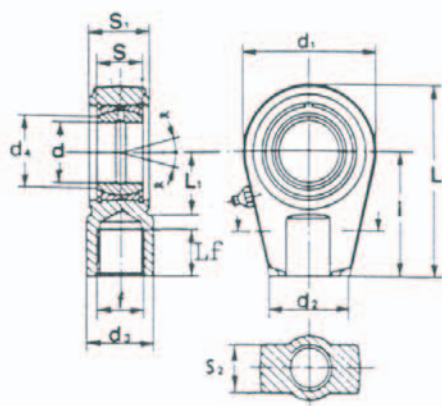


Equivalente
 Equivalente
 Equivalente

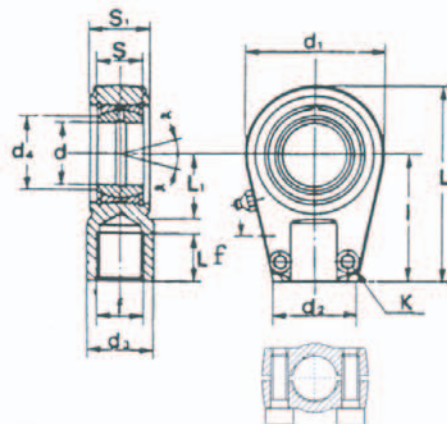
T.A.C.
 TS...C
 SC...ES
 GK...DO

SKF
 INA

TYPE	d	S	d ₁	l	d ₂	d ₃	d ₄	S ₁	L	L ₁	L ₂
T.A.C. 210	10	9	29	24	15	13	3	7	38.5	14	2
T.A.C. 212	12	10	34	27	17.5	15	3	8	44	16	2
T.A.C. 215	15	12	40	31	21	18	4	10	51	18	2.5
T.A.C. 217	17	14	46	35	24	20.5	4	11	58	20	3
T.A.C. 220	20	16	53	38	27.5	24	4	13	65.4	23	3
T.A.C. 225	25	20	64	45	33.5	29	4	17	77	27	4
T.A.C. 230	30	22	73	51	40	34	4	19	87.5	30	4
T.A.C. 235	35	25	82	61	47	39.5	4	21	102	37	4
T.A.C. 240	40	28	92	69	52	45	4	23	115	44	5
T.A.C. 245	45	32	102	77	58	50.5	6	27	128	48	5
T.A.C. 250	50	35	112	88	62	56	6	30	144	58	6
T.A.C. 260	60	44	135	100	70	66.5	6	38	167.5	68	8
T.A.C. 270	70	49	160	115	80	77.5	6	42	195	78	10
T.A.C. 280	80	55	180	141	95	89	6	47	231	91	10

TESTE A SNODO PER IDRAULICA
Accoppiamento di strisciamento: acciaio/acciaio
ROD ENDS FOR HYDRAULIC COMPONENTS
Contacting surface: steel/steel

TAPR.N

Equivalente TAPR.N
 Equivalente SKF SIRD...ES
 Equivalente INA GIHR...DO


TAPR.U

Equivalente TAPR.U
 Equivalente SKF SIR...ES
 Equivalente INA GIHR-K...DO

TYPE	d	S	d ₁	i	L ₁	d ₂	d ₃	d ₄	S ₁	S ₂	L	L ₁	f
TAPR. 420 N	20	16	56	50	17	36	25	24	19	17	80	25	M16 × 1.5
TAPR. 425 N	25	20	56	50	17	36	25	29	23	21	80	28	M16 × 1.5
TAPR. 430 N	30	22	64	60	23	40	32	34	28	26	94	30	M22 × 1.5
TAPR. 435 N	35	25	78	70	29	50	40	39.5	30	28	112	38	M28 × 1.5
TAPR. 440 N	40	28	94	85	36	60	49	45	35	33	135	45	M35 × 1.5
TAPR. 450 N	50	35	116	105	46	72	61	56	40	37	168	55	M45 × 1.5
TAPR. 460 N	60	44	130	130	59	90	75	66.5	50	46	200	65	M58 × 1.5
TAPR. 470 N	70	49	154	150	66	100	86	77.5	55	51	232	75	M65 × 1.5
TAPR. 480 N	80	55	176	170	81	125	102	89	60	55	265	80	M80 × 2
TAPR. 490 N	90	60	206	210	101	146	124	98	65	60	323	90	M100 × 2
TAPR. 495 N	100	70	230	235	111	166	138	109.5	70	65	360	105	M110 × 2
TAPR. 496 N	110	70	265	265	125	190	152	121	80	75	407.5	115	M120 × 3
TAPR. 497 N	120	85	340	310	135	257	172	135.5	90	85	490	140	M130 × 5

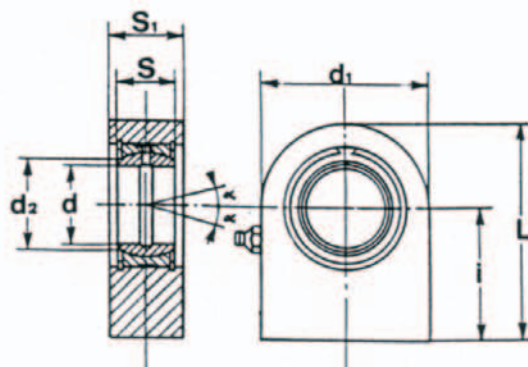
TYPE	d	S	d ₁	i	L ₁	d ₂	d ₃	d ₄	S ₁	S ₂	L	L ₁	f
TAPR. 520 U	20	16	56	50	17	36	25	24	19	17	80	25	M16 × 1.5
TAPR. 525 U	25	20	56	50	17	36	25	29	23	21	80	28	M16 × 1.5
TAPR. 530 U	30	22	64	60	23	40	32	34	28	26	94	30	M22 × 1.5
TAPR. 535 U	35	25	78	70	29	50	40	39.5	30	28	112	38	M28 × 1.5
TAPR. 540 U	40	28	94	85	36	60	49	45	35	33	135	45	M35 × 1.5
TAPR. 550 U	50	35	116	105	46	72	61	56	40	37	168	55	M45 × 1.5
TAPR. 560 U	60	44	130	130	59	90	75	66.5	50	46	200	65	M58 × 1.5
TAPR. 570 U	70	49	154	150	66	100	86	77.5	55	51	232	75	M65 × 1.5
TAPR. 580 U	80	55	176	170	81	125	102	89	60	55	265	80	M80 × 2
TAPR. 590 U	90	60	206	210	101	146	124	98	65	60	323	90	M100 × 2
TAPR. 595 U	100	70	230	235	111	166	138	109.5	70	65	360	105	M110 × 2
TAPR. 596 U	110	70	265	265	125	190	152	121	80	75	407.5	115	M120 × 3
TAPR. 597 U	120	85	340	310	135	257	172	135.5	90	85	490	140	M130 × 5

TESTE A SNODO PER IDRAULICA

Accoppiamento di strisciamento: acciaio/acciaio

ROD ENDS FOR HYDRAULIC COMPONENTS

Contacting surface: steel/steel



Equivalente	T.P.N.
Equivalente	TS..N
Equivalente	SKF SCF...ES
Equivalente	INA GF...DO

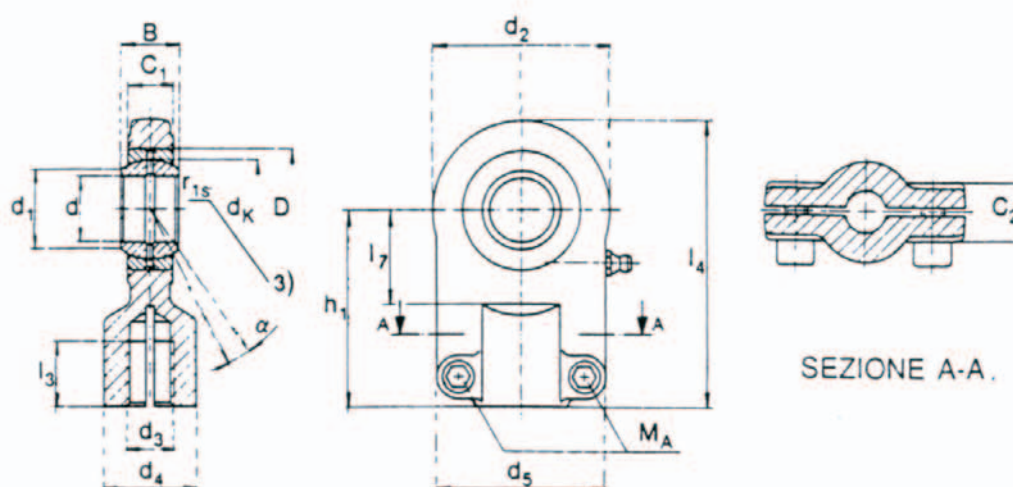
TYPE	d	S	d ₁	i	d ₂	S ₁	L
T.P.N. 320	20	16	50	38	24	19	63
T.P.N. 325	25	20	55	45	29	23	72.5
T.P.N. 330	30	22	65	51	34	28	83.5
T.P.N. 335	35	25	83	61	39.5	30	102.5
T.P.N. 340	40	28	100	69	45	35	119
T.P.N. 345	45	32	110	77	50.5	40	132
T.P.N. 350	50	35	123	88	56	40	149.5
T.P.N. 360	60	44	140	100	66.5	50	170
T.P.N. 370	70	49	164	115	77.5	55	197
T.P.N. 380	80	55	180	141	89	60	231
T.P.N. 390	90	60	226	150	98	65	263
T.P.N. 395	100	70	250	170	109.5	70	295
T.P.N. 396	110	70	295	185	121	80	332.5
T.P.N. 397	120	85	360	210	135.5	90	390

TESTE A SNODO PER IDRAULICA

Accoppiamento di strisciamento: acciaio/acciaio

ROD ENDS FOR HYDRAULIC COMPONENTS

Contacting surface: steel/steel


TAPR.DO

Equivalente

TAPR..S

Equivalente INA GIHO-K...DO

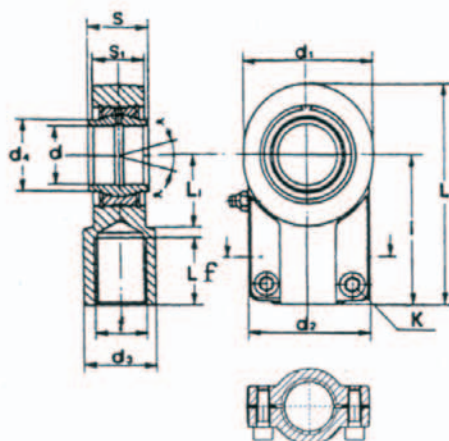
TYPE	$\varnothing d$	B	d_2	d_1	d_3	d_4	d_5	C_1	C_2	h_1	l_3	l_4	l_7
TAPR. 701 DO	12	10	32	15	10x1.25	17	40	8	13	42	15	58	18
TAPR. 702 DO	16	14	42	20	12x1.25	21	45	11	13	48	17	69	22
TAPR. 703 DO	20	16	50	25	14x1.5	25	55	13	17	58	19	83	28
TAPR. 704 DO	25	20	62	29	16x1.5	30	62	/	68	23	99	34	
TAPR. 705 DO	30	22	76	34	20x1.5	36	80	19	/	85	29	123	38
TAPR. 706 DO	40	28	96	45	27x2	45	90	23	/	105	37	153	48
TAPR. 707 DO	50	35	116	55	33x2	55	105	30	/	130	46	188	62
TAPR. 708 DO	60	44	150	66	42x2	68	134	38	/	150	57	255	74
TAPR. 709 DO	80	55	195	88	48x2	78	156	47	/	185	64	282.5	98
TAPR. 710 DO	100	70	235	109	64x3	100	190	57	/	240	86	357.5	122

TESTE A SNODO PER IDRAULICA

Accoppiamento di strisciamento: acciaio/acciaio

ROD ENDS FOR HYDRAULIC COMPONENTS

Contacting surface: steel/steel


TAPR.CE

Equivalente

TAPR...CE

Equivalente

SIQG...ES

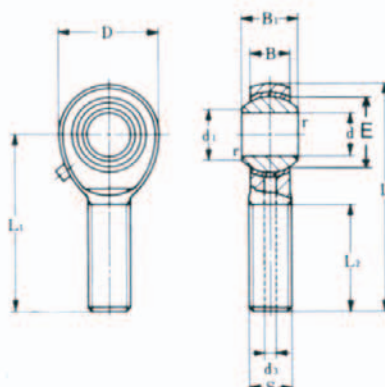
Equivalente

INA GIHN-K...LO

TYPE	d	S	d ₁	i	L ₁	d ₂	d ₃	d ₄	S ₁	S ₂	L	L ₁	f
TAPR. 612 CE	12	12	32	38	17	32	16	15.5	10.5	12	54	14	M12x1.25
TAPR. 616 CE	16	16	40	44	19	40	21	20	13	11.5	64	18	M14x1.5
TAPR. 620 CE	20	20	47	52	23	47	25	25	17	14	77	22	M16x1.5
TAPR. 625 CE	25	25	58	65	29	54	30	30.5	21	17	96	27	M20x1.5
TAPR. 632 CE	32	32	70	80	37	66	38	38	27	22	118	32	M27x2
TAPR. 640 CE	40	40	89	97	46	80	47	46	32	26	145.5	41	M33x2
TAPR. 650 CE	50	50	108	120	57	96	58	57	40	32	179	50	M42x2
TAPR. 663 CE	63	63	132	140	64	114	70	71.5	52	38	211	62	M48x2
TAPR. 670 CE	70	70	155	160	76	135	80	79	57	42	245	70	M56x2
TAPR. 680 CE	80	80	168	180	86	148	90	91	66	48	270	78	M64x3
TAPR. 690 CE	90	90	185	195	91	160	100	99	72	52	296	85	M72x3
TAPR. 695 CE	100	100	210	210	96	178	110	113	84	62	322	98	M80x3
TAPR. 696 CE	110	110	235	235	101	190	125	124	88	62	364	105	M90x3
TAPR. 697 CE	125	125	264	260	106	200	135	138	103	72	405	120	M100x3

TESTE A SNODO

ROD ENDS

TSM
TSM...CEquivalente SKF
SAKAC...MEquivalente INA
GAK FR...PB
GAK FR...PW

TSM: MASCHIO - MALE

TIPO TYPE	d	d ₁	B ₁	E	B	D	S	L ₁	L ₂	CARICO KN RATINGS LOAD KN		PESO WEIGHT Kg.
										DYNAMIC	STATIC	
TSM 5	5	7.7	8	11.11	7	16	M 5x0.8	33	20	3.2	7	0.014
TSM 6	6	9	9	12.70	7	18	M 6x1	36	22	3.5	8	0.019
TSM 8	8	10.4	12	15.88	9	22	M 8x1.25	42	25	5.8	13	0.036
TSM 10	10	12.9	14	19.05	11	26	M10x1.5	48	29	8.6	18	0.060
TSM 12	12	15.4	16	22.23	12	30	M12x1.75	54	33	11.5	24	0.089
TSM 14	14	16.9	19	25.40	14	34	M14x2	60	36	17.5	36	0.129
TSM 16	16	19.4	21	28.58	15	38	M16x2	66	40	20	40	0.181
TSM 17	17	20.6	22	30.16	16	40	M16x1.5	69	42	22	45	0.206
TSM 18	18	21.9	23	31.75	17	42	M18x1.5	72	44	27	50	0.250
TSM 20	20	24.4	25	34.93	18	46	M20x1.5	78	47	31	60	0.333
TSM 22	22	25.9	28	38.10	20	50	M22x1.5	84	51	43	72	0.430
TSM 25	25	29.5	31	42.86	22	56	M24x2	94	57	50	85	0.575
TSM 28	28	32.3	35	47.59	25	66	M27x2	103	62	60	90	0.800
TSM 30	30	34.9	37	50.80	26	67	M30x2	110	66	66	110	0.996

Accoppiamento: acciaio/bronzo — Sliding contact surface: steel/bronze.

Per filettatura sinistra aggiungere il suffisso «L» es. TSML — For left-hand thread, Suffix «L» is added to bearings number and thread sign. e.g. TSML

TSM...C: Esente da lubrificazione - Maintenance free

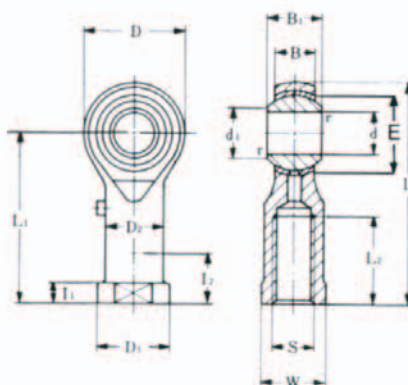
TIPO TYPE	d	d ₁	B ₁	E	B	D	S	L ₁	L ₂	CARICO KN RATINGS LOAD KN		PESO WEIGHT Kg.
										DYNAMIC	STATIC	
TSM 5 C	5	7.7	8	11.11	7.5	18	M 5	33	20	3.2	7	0.014
TSM 6 C	6	8.9	9	12.70	7.5	20	M 6	36	22	3.5	8	0.019
TSM 8 C	8	10.3	12	15.88	9.5	24	M 8	42	25	5.8	13	0.036
TSM 10 C	10	12.9	14	19.05	11.5	30	M10	48	29	8.6	18	0.070
TSM 12 C	12	15.4	16	22.23	12.5	34	M12	54	33	11.5	24	0.110
TSM 14 C	14	16.8	19	25.40	14.5	38	M14	60	36	17.5	36	0.130
TSM 16 C	16	19.3	21	28.58	15.5	42	M16	66	40	20	40	0.220
TSM 18 C	18	21.8	23	31.75	17.5	46	M18x1.5	72	44	27	50	0.290
TSM 20 C	20	24.3	25	34.93	18.5	50	M20x1.5	78	47	31	60	0.360
TSM 22 C	22	25.8	28	38.10	21	56	M22x1.5	84	51	43	72	0.490
TSM 25 C	25	29.5	31	42.86	23	60	M24x2	94	57	50	85	0.650
TSM 28 C	28	32.2	35	47.59	26	66	M27x2	103	62	60	90	0.870
TSM 30 C	30	34.8	37	50.80	27	70	M30x2	110	66	66	110	1.060

Accoppiamento: Acciaio/PTFE — Sliding contact surface: steel/PTFE.

To line SF1 material on the surface of spherical plain. For left-hand thread, Suffix «L» is added to bearings number and thread sign. e.g. TSML...C

TESTE A SNODO

ROD ENDS

TSF
TSF...CEquivalente SKF
SIKAC...MEquivalente INA
GIK FR...PB
GIK FR...PW

TSF: FEMMINA - FEMALE

TIPO TYPE	d	d ₁	B ₁	E	B	D	S	L ₁	L ₂	D ₂	D ₃	I ₁	W	CARICO KN RATINGS LOAD KN		PESO WEIGHT Kg.
														DYNAMIC	STATIC	
TSF 5	5	7.7	8	11.11	7	16	M 5x0.8	27	8	9	12	4	9	3.2	7	0.018
TSF 6	6	9.0	9	12.71	7	18	M 6x1	30	9	10	13	5	11	3.5	8	0.026
TSF 8	8	10.4	12	15.88	9	22	M 8x1.25	36	12	12.5	16	5	14	5.8	13	0.045
TSF 10	10	12.9	14	19.05	11	26	M10x1.5	43	15	15	19	6.5	17	8.6	18	0.076
TSF 10.1	10	12.9	14	19.05	11	26	M10x1.25	43	15	15	19	6.5	17	8.6	18	0.076
TSF 12	12	15.4	16	22.23	12	30	M12x1.75	50	18	17.5	22	6.5	19	11.5	24	0.114
TSF 12.1	12	15.4	16	22.23	12	30	M12x1.25	50	18	17.5	22	6.5	19	11.5	24	0.114
TSF 14	14	16.9	19	25.40	14	34	M14x2	57	21	20	25	8	22	17.5	36	0.158
TSF 16	16	19.4	21	28.58	15	38	M16x2	64	24	22	27	8	22	20	40	0.200
TSF 16.1	16	19.4	21	28.58	15	38	M16x1.5	64	24	22	27	8	22	20	40	0.200
TSF 17	17	20.6	22	30.16	16	40	M16x1.5	67	25	24	31	10	27	22	45	0.259
TSF 18	18	21.9	23	31.75	17	42	M18x1.5	71	27	25	31	10	27	27	50	0.288
TSF 20	20	24.4	25	34.93	18	46	M20x1.5	77	30	27.5	37	10	30	31	60	0.372
TSF 22	22	25.9	28	38.10	20	50	M22x1.5	84	33	30	37	12	32	43	72	0.475
TSF 25	25	29.6	31	42.86	22	56	M24x2	94	36	33.5	42	12	36	50	85	0.673
TSF 28	28	32.3	35	47.59	25	66	M27x2	103	41	37	46	14	41	60	90	0.950
TSF 30	30	34.9	37	50.80	26	67	M30x2	110	45	40	50	15	41	66	110	1.050

Accoppiamento: acciaio/bronzo — Sliding contact surface: steel/bronze.

Per filettatura sinistra aggiungere il suffisso «L» es. TSFL — For left-hand thread. Suffix «L» is added to bearings number and thread sign. e.g. TSFL

TSF...C: Esente da lubrificazione — Maintenance free.

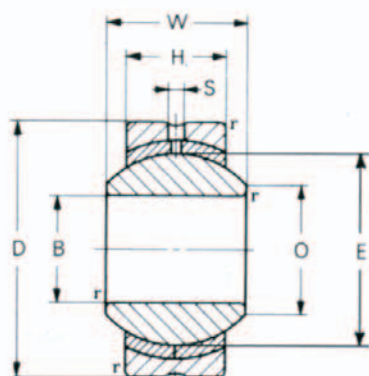
TIPO TYPE	d	d ₁	B ₁	E	B	D	S	L ₁	L ₂	D ₂	D ₃	I ₁	W	CARICO KN RATINGS LOAD KN		PESO WEIGHT Kg.
														DYNAMIC	STATIC	
TSF 5 C	5	7.7	8	11.11	7.5	18	M 5	27	8	9	12	4	10	3.2	7	0.018
TSF 6 C	6	8.9	9	12.71	7.5	20	M 6	30	9	10	13	5	10	3.5	8	0.026
TSF 8 C	8	10.3	12	15.88	9.5	24	M 8	36	12	12.5	16	5	13	5.8	13	0.045
TSF10 C	10	12.9	14	19.05	11.5	30	M10	43	15	15	19	6.5	16	8.6	18	0.088
TSF10.1C	10	12.9	14	19.05	11.5	30	M10x1.25	43	15	15	19	6.5	16	8.6	18	0.088
TSF12 C	12	15.4	16	22.23	12.5	34	M12	50	18	17.5	22	6.5	18	11.5	24	0.120
TSF12.1C	12	15.4	16	22.23	12.5	34	M12x1.25	50	18	17.5	22	6.5	18	11.5	24	0.120
TSF14 C	14	16.8	19	25.40	14.5	38	M14	57	21	20	25	8	21	17.5	36	0.140
TSF16 C	16	19.3	21	28.58	15.5	42	M16	64	24	22	27	8	24	20	40	0.240
TSF16.1C	16	19.3	21	30.16	15.5	42	M16x1.5	64	24	22	27	8	24	20	40	0.240
TSF18 C	18	21.8	23	31.75	17.5	46	M18	71	27	25	31	10	27	27	50	0.320
TSF20 C	20	24.3	25	34.93	18.5	50	M20	77	30	27.5	37	10	30	31	60	0.430
TSF22 C	22	25.8	28	38.10	21	56	M22	84	33	30	37	12	34	43	72	0.610
TSF25 C	25	29.5	31	42.86	23	60	M24	94	36	33.5	42	12	36	50	85	0.810
TSF28 C	28	32.2	35	47.59	26	66	M27	103	41	37	46	14	41	60	90	1.120
TSF30 C	30	34.8	37	50.80	27	70	M30	110	45	40	50	15	46	66	110	1.350

Accoppiamento: Acciaio/PTFE

Per filettatura sinistra aggiungere il suffisso «L» es. TSFL...C

To line SF1 material on the surface of spherical plain. For left-hand thread. Suffix «L» is added to bearings number and thread sign. e.g. TSFL...C

SNODI SFERICI — SPHERICAL PLAIN BEARINGS



SSR

TIPO TYPE	Dimensioni mm Dimensions									Angolo di disassamento max.	Carico statico limite Max static ratings load		Peso Weight g.
	B	W	H	O	D	R	S	E	α	Radial Kg.	Axial Kg.		
SSR 5	5	8	7	7.71	16	0.5	1.5	11.11	24	930	230	10	
SSR 6	6	9	7	8.96	18	0.5	1.5	12.7	28	1070	270	12	
SSR 8	8	12	9	10.4	22	0.5	1.5	15.88	25	1720	430	24	
SSR 10	10	14	11	12.92	26	0.5	1.5	19.05	23	2510	630	40	
SSR 12	12	16	12	15.43	30	1	2	22.23	24	3200	800	58	
SSR 14	14	19	14	16.86	34	1	2	25.4	23	4270	1070	86	
SSR 15	15	20	14	18.12	36	1	2	26.99	24	4530	1130	98	
SSR 16	16	21	15	19.39	38	1	2	28.58	24	5140	1290	116	
SSR 17	17	22	16	20.63	40	1	2.5	30.16	23	5790	1450	135	
SSR 18	18	23	17	21.89	42	1.5	2.5	31.75	23	6480	1620	157	
SSR 20	20	25	18	24.38	46	1.5	2.5	34.93	24	7540	1890	200	
SSR 22	22	28	20	25.84	50	1.5	2.5	38.1	23	9140	2290	262	
SSR 25	25	31	22	29.6	56	1.5	3	42.86	23	11320	2830	362	
SSR 28	28	35	25	32.29	62	1.5	3	47.83	22	14290	3570	500	
SSR 30	30	37	26	34.81	67	2	3	50.8	23	15850	3960	608	

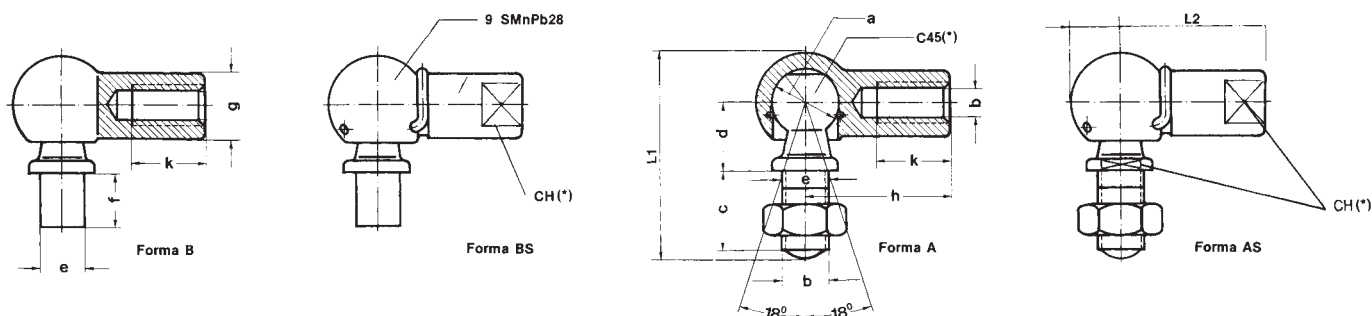
MATERIALI:

Supporto: Acciaio
 Inserto : Bronzo
 Sfera : Acciaio

MATERIALS:

Housing: Steel
 Insert : Bronze
 Ball : Chrome steel

SNODI ANGOLARI CON TESTA SFERICA TEMPRATA
BALL JOINTS ROD ENDS WITH SHANK



DIN 71802

SNODO SFERICO CON TENUTA A MOLLA — BALL JOINT ROD END WITH SPRING CLAMPING

a H9/h8	b	d	e h11	f	g	h	k	CH*	Peso in gr. B e BS
8	M5	9	5	4	8	22	10.2	7	12.85
				7.5					13.35
10	M6	11	6	4.5	10	25	11.5	8	21.3
				8					22
13	M8	13	8	5	13	30	14	11	43.2
				10					45
16	M10	16	10	6	16	35	15.5	13	82.3
				13					86.6
19	M14x1.5	20	14	12	22	45	21.5	17	181
	M14x2			18					188.7

SNODO SFERICO CON TENUTA A MOLLA E ANELLO DI SICUREZZA — BALL JOINT ROD END WITH SPRING CLAMPING AND SAFETY-RING

a H9/h8	b	c	d	e h11	g	h	L ₁	L ₂	k	CH*	Peso in gr. A e AS
8	M5	10	9	5	8	22	25.2	28.5	10.2	7	15.2
10	M6	12	11	6	10	25	30.2	32.5	11.5	8	25.2
13	M8	16	13	8	13	30	38.2	39.5	14	11	53.1
16	M10	19	16	10	16	35	47.5	47	15.5	13	102.8
19	M14x1.5	27	20	14	22	45	62.5	60	21.5	17	220.9
	M14x2										

Lavorazione normale: trattamento di zincatura FeZn7 Uni 4721 - a richiesta superficie grezza oliata

Surface: zinc-plating FeZn7 Uni 4721 - or coarse oiled surface by request.

(*CH): Piani di serraggio — Clamping plains.

C45(*): Speciale — Special.

Le misure non sono impegnative - The size are not binding.

Gli snodi sferici e le teste a snodo **LSK** sono costruiti con materiali selezionati e lavorati con macchine di precisione; questo permette di garantire un elevato grado di qualità. Offrono larghe possibilità di impiego nel campo dell'industria, dell'agricoltura, dell'idraulica e della pneumatica, dovunque è richiesto un impiego esente da manutenzione, di precisione e per carichi gravosi.

Le tolleranze di lavorazione e di assemblaggio rispettano le norme degli standard **ISO** (e **DIN** per alcune serie utilizzate in applicazioni di idraulica) e sono intercambiabili con i prodotti delle marche più prestigiose.

Il materiale utilizzato per la costruzione degli snodi sferici è il seguente:

- Anello esterno e sfera: acciaio 100 CR 6 (acciaio per cuscinetti) temprato e rettificato e superficie trattata (fosfatizzazione al bisolfuro di molibdeno) per aumentarne la durata.
- Accoppiamento: acciaio su acciaio, oppure, nelle esecuzioni esenti da lubrificazione, acciaio su tessuto di PTFE.

Il materiale utilizzato per la costruzione delle teste a snodo è il seguente:

- Gambo: acciaio C 45 stampato o forgiato, con superficie trattata anticorrosione e con inserita una boccola sagomata in bronzo sinterizzato.
- Sfera: acciaio 100 CR 6, rivestita in cromo duro.
- Accoppiamento: acciaio su acciaio o acciaio su bronzo sinterizzato o acciaio su tessuto di PTFE.

*Spherical plain bearings and rod ends **LSK** are manufactured with material of the best quality on machines of high precision, therefore we are able to guarantee that they are products of high quality, suitable to a many lot of uses in sector of industry, farming, hidraulics, pneumatics and everywhere it is requested a precision use, or hard loads, or maintenance free. The tolerances of manufacture and assemblage respect the rules of standard **ISO** (and **DIN** for some series used for hydraulics) and they are interchangeable with the products of the most important manufactures.*

The material used for the manufacture of spherical plain bearings is the following.

- *Outer ring and ball: steel 100 CR 6 (steel for bearings) tempered and ground, with phosphorlylate-treated surface in molybdenum bisulphide to increase their endurance.*
- *Sliding contact surface: steel on steel, or, maintenance-free, steel on PTFE.*

The material used for the manufacture of rod ends is the following:

- *Shank: steel C 45 pressed or moulded, with anticorrosion treated surface and with a shaped syntherized-bronze-bushing.*
- *Ball: steel 100 CR 6, hard chromium plated.*
- *Sliding contact surface: steel on steel, or steel on syntherized-bronze, or steel on PTFE.*



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