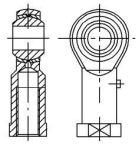
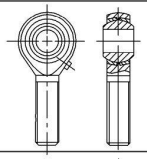
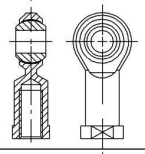
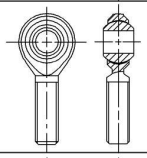
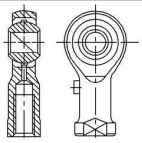
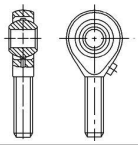
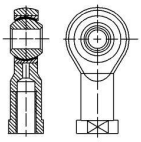
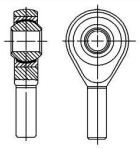
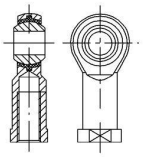
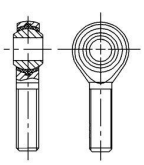
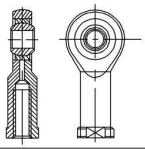
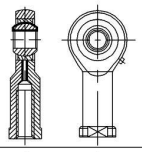
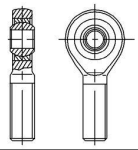
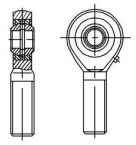
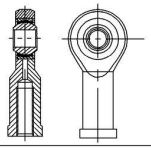
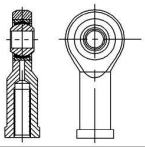
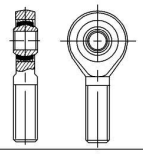
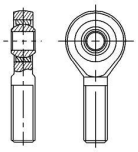
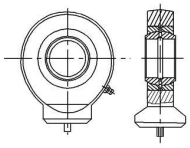
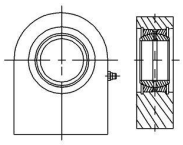
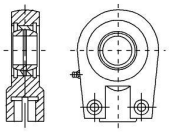
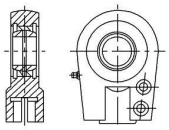
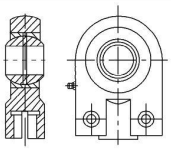
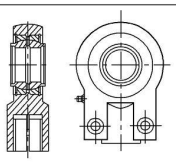
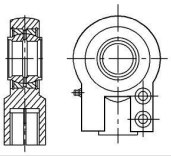
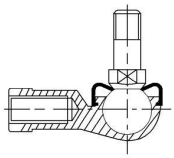
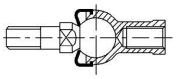
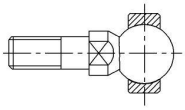
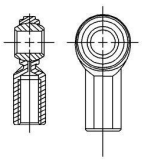
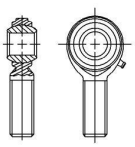
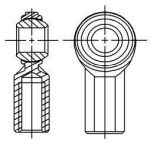
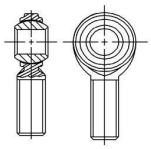
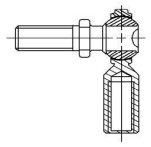
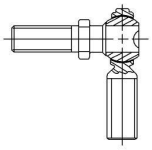
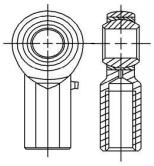
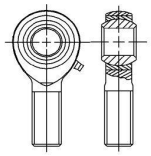
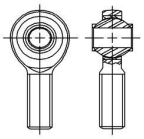
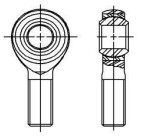
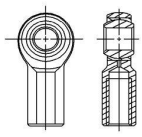
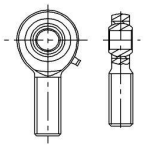
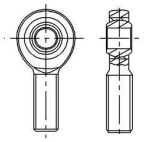
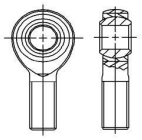
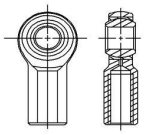
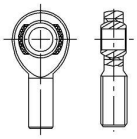
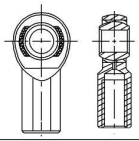
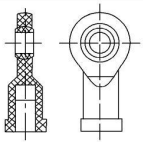
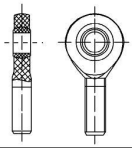
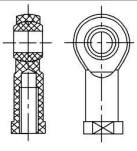
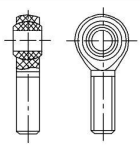
LDK® Assortment of Rod Ends and Spherical Plain Bearings

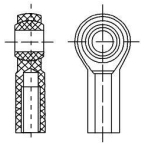
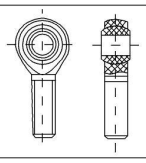
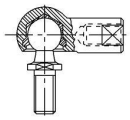
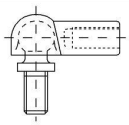
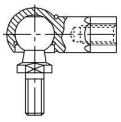
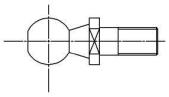
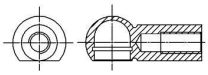
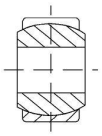
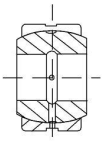
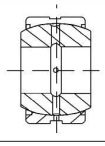
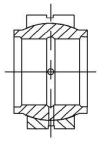
Structure	Series	Size range (mm)	Sliding contact surface	If requiring relubrication	Design characteristics
	PHS SPHS PHSB	3-30 5-30 4.82-25.4	Steel/Brass	Yes	Inlaid liner rod ends, Prefix "S"=Stainless steel. PHSB in inch dimensions
	POS SPOS POSB	3-30 5-30 4.82-25.4	Steel/Brass	Yes	Inlaid liner rod ends, Predix "S"=Stainless steel.POSB in inch dimensions
	PHS...EC SPHS...EC SPHSB...EC	5-22 5-22 4.82-19.05	Steel/PTFE	No	Extrusion and self-lubricated type of rod ends,Predix "S"=Stainless steel "B" in inch dimensions
	POS...EC SPOS...EC SPOSB...EC	5-22 5-22 4.82-19.05	Steel/PTFE	No	Extrusion and self-lubricated type of rod ends,Prefix "S"=Stainless steel "B" in inch dimensions
	PHS...HD	5-30	Steel/Brass	Yes	Combination rod ends
	POS...HD	5-30	Steel/Brass	Yes	Combination rod ends
	CHS SCHS	3-30 5-30	Steel/PTFE	No	Self-lubricated rod ends, Prefix "S"=Stainless steel.
	COS SCOS	3-30 5-30	Steel/PTFE	No	Self-lubricated rod ends, Prefix "S"=Stainless steel.
	NPHS	5-30	Steel/Nylon	No	Self-lubricated rod ends,race in Nylon polymer with PTFE additive.
	NPOS	5-30	Steel/Nylon	No	Self-lubricated rod ends,race in Nylon polymer with PTFE additive.

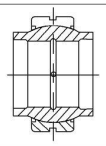
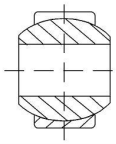
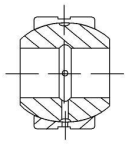
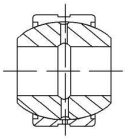
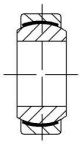
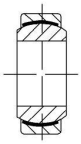
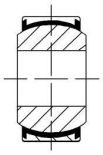
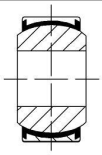
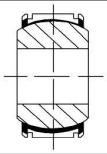
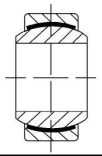
Structure	Series	Size range (mm)	Sliding contact surface	If requiring relubrication	Design characteristics
	SI...E	5-12	Steel/Steel	No	Combination rod ends,mounted with GE..E type of radial spherical plain bearings
	SI...ES SI...ES-2RS	15-80	Steel/Steel	Yes	Combination rod ends,mounted with GE..ES/GE..ES-2RS type of radial spherical plain bearings
	SA...E	5-12	Steel/Steel	No	Combination rod ends,mounted with GE..E type of radial spherical plain bearings
	SA...ES SA...ES-2RS	15-80	Steel/Steel	Yes	Combination rod ends,mounted with GE..ES type of radial spherical plain bearings
	SI...C	5-30	Steel/PTFE	No	Combination rod ends,mounted with GE..C type of radial spherical plain bearings
	SI...ET-2RS	15-80	Steel/PTFE fabric	No	Combination rod ends,mounted with GE..ET-2RS type of radial spherical plain bearings
	SA...C	5-30	Steel/PTFE	No	Combination rod ends,mounted with GE..C type of radial spherical plain bearings
	SA...ET-2RS	15-80	Steel/PTFE fabric	No	Combination rod ends,mounted with GE..ET-2RS type of radial spherical plain bearings
	SK...E SK...ES	10-12 15-80	Steel/Steel	Yes	Stretching rod in fine weldable steel, with slot in the shank and can be clamped by socket screws, combinated with GE..ES type of radial spherical plain bearings
	SF...ES	20-120	Steel/Steel	Yes	Stretching rod in fine weldable steel, with dowel pin,combinated with GE.. ES type of radial spherical plain bearings, housing with a rectangle welding surface

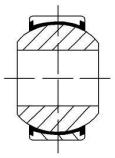
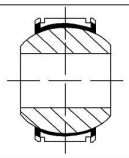
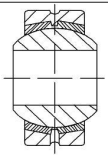
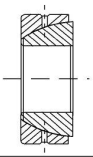
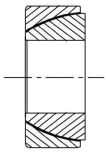
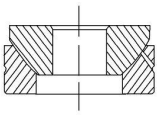
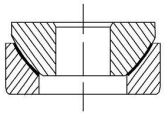
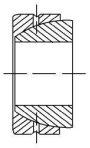
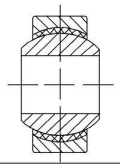
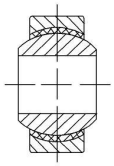
Structure	Series	Size range (mm)	Sliding contact surface	If requiring relubrication	Design characteristics
	SIR...ES (d≤50)	20-50	Steel/Steel	Yes	Bearings with two slots in the shank and can be clamped by socket screws, right and left thread, combinated with GE..ES type of radial spherical plain bearings,
	SIR...ES (d≥60)	60-120	Steel/Steel	Yes	Bearings with single slots in the shank and can be clamped by socket screws, right and left thread, combinated with GE..ES type of radial spherical plain bearings,
	SIQ...ES	12-60	Steel/Steel	Yes	Bearings with two slots in the shank and can be clamped by socket screws, right and left thread, combinated with GE..ES type of radial spherical plain bearings,
	SIGEW...ES (d≤50)	12-50	Steel/Steel	Yes	Bearings with two slots in the shank and can be clamped by socket screws, right and left thread, combinated with GEEW..ES type of radial spherical plain bearings
	SIGEW...ES (d≥63)	63-125	Steel/Steel	Yes	Bearings with single slots in the shank and can be clamped by socket screws, right and left thread, combinated with GE..ES type of radial spherical plain bearings,
	SQ...-RS	5-22	Steel/Zinc alloy	Yes	Winding shape ball joint rod ends with female thread, housing is made of Zinc alloy.
	SQZ...-RS	5-22	Steel/Zinc alloy	Yes	Straight ball joint rod ends with axial shank,female thread, housing is made of Zinc alloy.
	SQD...	5-16	Steel/Zinc alloy	Yes	Ball joint housing is an outer ring of radial spherical plain bearing, made of Zinc alloy
	CF... SCF...	4.82-19.05	Steel/Steel	Yes	Extrusion type of rod ends, Inch dimensions, Prefix "S"=stainless steel
	CM... SCM... CMX...	4.82-19.05	Steel/Steel	Yes	Extrusion type of rod ends, Inch dimensions, Prefix "S"=stainless steel

Structure	Series	Size range (mm)	Sliding contact surface	If requiring relubrication	Design characteristics
	CF...T SCF...T	4.82-19.05	Steel/PTFE	No	Extrusion and self-lubricated type of rod ends,Inch dimensions, Prefix "S"=stainless steel
	CM...T SCM...T CMX...T	4.82-19.05	Steel/PTFE	No	Extrusion and self-lubricated type of rod ends, Inch dimensions, Prefix "S"=stainless steel
	CF...TY	10-32 ~ 3/4-16	Steel/PTFE	Yes	Ball joint rod ends, Inch dimensions.
	CM...TY	10-32 ~ 3/4-16	Steel/PTFE	Yes	Ball joint rod ends, Inch dimensions.
	F JF.../JFL... JFX.../JFXL... RJF... ALJF.../ALJFL...	4.82-25.4 4.82-25.4 4.82-25.4 6.35-9.525 4.82-12.7	Steel/Brass Steel/Steel Steel/Steel Steel/Steel Steel/Steel	Yes	Wide alternatives of material for shanks and races for wider application.
	M JM.../JML... JMX.../JMXL... RJM... ALJM../ALJML...	4.82-25.4 4.82-25.4 4.82-25.4 6.35-9.525 4.82-19.05	Steel/Brass Steel/Steel Steel/Steel teel/Steel Steel/Steel	Yes	Wide alternatives of material for shanks and races for wider application.
	HJMX...T HRSMX...T	9.52-19.05	Steel/PTFE	No	Wide inner races, PTFE lined.
	RJMX...T SJM...T/SRSM...T HJMX...T PMX...T	9.52-15.88 6.35-19.05 9.52-19.05 7.93-19.05	Steel/PTFE	No	Self-lubricated type, PTFE lined.
	SJF...T	6.35-19.05	Steel/PTFE	No	Self-lubricated type, PTFE lined. Balls, shanks,races are all stainless steel.

Structure	Series	Size range (mm)	Sliding contact surface	If requiring relubrication	Design characteristics
	RSM... RSMX... ALRSM...	4.82-15.88 4.82-19.05 9.52-12.7	Steel/Steel	Yes	High strength rod ends, Heavy duty shank.
	RSM...T RSMX...T RRSMX...T SRSM...T	4.82-15.88 4.82-22.23 9.52-15.88 9.525-15.88	Steel/PTFE	No	Self-lubricated type,Heavy duty shank.
	NJM...	4.82-19.05	Steel/Nylon	No	Injection-moulded type,race in injected Nylon polymer.
	NJF...	4.82-19.05	Steel/Nylon	No	Injection-moulded type,race in injected Nylon polymer.
	NXM... NEXM... NAM...	4.82-19.05	Steel/Nylon	No	Injection-moulded type,race in injected Nylon polymer for extra axial load capacity.
	NXF... NEXF... NAF...	4.82-19.05	Steel/Nylon	No	Injection-moulded type,race in injected Nylon polymer for extra axial load capacity
	PEFM..	4-30	Plastic/Plastic	No	All plastic polymer rod ends.body and ball are manufactured from high quality engineering plastic polymer.
	PEMM..	5-30	Plastic/Plastic	No	All plastic polymer rod ends.body and ball are manufactured from high quality engineering plastic polymer.
	PKFM..	2-30	Plastic/Plastic	No	All plastic polymer rod ends.body and ball are manufactured from high quality engineering plastic polymer.
	PKMM..	5-30	Plastic/Plastic	No	All plastic polymer rod ends.body and ball are manufactured from high quality engineering plastic polymer.

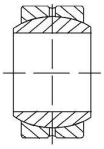
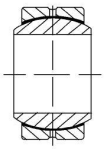
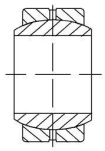
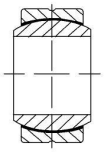
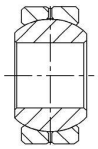
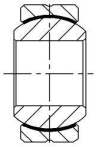
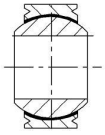
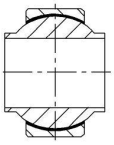
Structure	Series	Size range (mm)	Sliding contact surface	If requiring relubrication	Design characteristics
	PKFI..	4.82-25.4	Plastic/Plastic	No	All plastic polymer rod ends.body and ball are manufactured from high quality engineering plastic polymer.
	PKMI..	4.82-25.4	Plastic/Plastic	No	All plastic polymer rod ends.body and ball are manufactured from high quality engineering plastic polymer.
	AS	6-12	Steel/Nylon	No	Self-lubricated type ball joint rod ends,Race in Nylon polymer.
	BS	5-8	Steel/Nylon	No	Self-lubricated type ball joint rod ends,Body in Nylon polymer with MoS2 additive.
	CS	5-16	Steel/Steel	YES	Body and stud both in carbon steel, Body threaded,The axial clearance and load rating rely on two spring retaining rings.
	BALL STUD DIN71803	8-19	Steel/Steel	YES	Ball stud for CS ball joints. Not assembled for user's convenient installation purpose in special circumstances.The user can decide and create a new way of linkage by selecting ball stud or socket.
	BALL SOCKET DIN71805	8-19	Steel/Steel	YES	Ball socket for CS ball joints. Not assembled for user's convenient installation purpose in special circumstances.The user can decide and create a new way of linkage by selecting ball stud or socket.
	GE...E	4-12	Steel/Steel	NO	Heavy duty, Outer race fractured, inner race hardened.
	GE...ES GEZ...ES	15-300 12.7-152.4	Steel/Steel	YES YES	Outer race fractured,inner race hardened. Structure same as GE..ES, Inch dimensions.
	GE...ES-2RS GEZ...ES-2RS	15-300 25-101	Steel/Steel Steel/Steel	YES YES	Structure and dimension same as GE..ES,sealed on both sides. Structure same as GE..ES-2RS, Inch dimensions.
	GEEW...ES	12-320	Steel/Steel	YES	Outer race fractured,wider inner race, hardended.

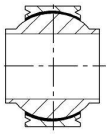
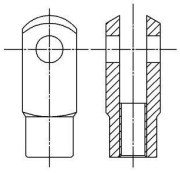
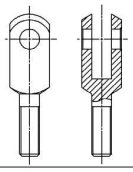
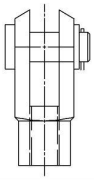
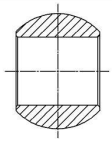
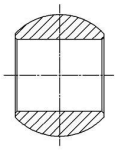
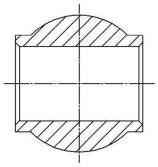
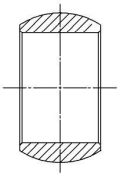
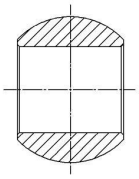
Structure	Series	Size range (mm)	Sliding contact surface	If requiring relubrication	Design characteristics
	GEEM...ES-2RS	20-80	Steel/Steel	YES	Outer race fractured,wider inner race, hardended.Seals on both sides.
	GEG...E	4-12	Steel/Steel	NO	Heavy duty, Outer race fractured, inner race hardened.
	GEG...ES	15-280	Steel/Steel	YES	Heavy duty, Outer race fractured, inner race hardened.
	GEG...ES-2RS	15-280	Steel/Steel	YES	Heavy duty, Outer race fractured, inner race hardened.Seals on both sides
	GE...C	4-30	Steel/PTFE	NO	Outer race extruded, inner race surface hard chromium plated.PTFE lined.
	**SGE...C**	4-30	Steel/PTFE	NO	**Complete stainless steel,**Outer race extruded,inner race surface hard chromium plated.PTFE lined.
	GE...ET-2RS	15-120	Steel/PTFE fabric	No	Outer race extruded, inner race surface hard chromium plated. Sealed on both size, with PTFE liner, self-lubricated.
	**SGE...ET-2RS**	15-60	Steel/PTFE	No	**Complete stainless steel,**Outer race extruded,inner race surface hard chromium plated.Sealed on both size, with PTFE liner,self-lubricated.
	GE...XT-2RS	140-300	Steel/PTFE fabric	No	Outer race axially splited,inner race surface hard chrome plated,seals on both sides,PTFE lined.
	GEG...C	4-30	Steel/PTFE	No	Heavet duty,outer race extruded, wider inner race with bigger chamfer, surface hard chrome plated,PTFE lined.

Structure	Series	Size range (mm)	Sliding contact surface	If requiring relubrication	Design characteristics
	GEG...ET-2RS	15-110	Steel/PTFE fabric	No	Heavet duty,Outer race fractured, wider inner race with bigger chamfer, surface hard chrome plated,seals on both sides,PTFE lined.
	GEG...XT-2RS	120-280	Steel/PTFE fabric	No	Heavy duty,outer race splited,wider inner race with bigger chamfer, surface hard chrome plated,seals on both sides,PTFE lined.
	GEBK...S	5-30	Steel/Bronze	Yes	Outer race extruded, inner race surface hard chrome plated.
	GAC...S	25-200	Steel/Steel	Yes	Outer and inner races are separate, both hardended and phosphated.
	GAC...T	25-200	Steel/PTFE fabric	No	Outer and inner races are separate, inner race surface hard chrome plated,PTFE lined.
	GX...S	10-200	Steel/Steel	Yes	Bearing housings and inner races are separate,hardened and phosphated.
	GX...T	10-200	Steel/PTFE fabric	No	Bearing housings and inner races can be split,hardened;inner race surface hard chrome plated,PTFE lined.
	GACZ...S	12.7-152.4	Steel/Steel	Yes	Outer and inner races can be split, both hardended and phosphated. Inch dimensions.
	GE...PW	2-30	Steel/PTFE	No	Outer race extruded, inner race surface hard chrome plated, PTFE lined.
	**SGE...PW**	5-30	Steel/PTFE	No	**Complete stainless steel,**Outer race extruded,inner race surface hard chrome plated.PTFE lined.

LDK®

Assortment of Rod Ends and Spherical Plain Bearings

Structure	Series	Size range (mm)	Sliding contact surface	If requiring relubrication	Design characteristics
	COM HCOM	4.83-25.4 25.4-50.8	Steel/Steel Steel/Steel	Yes Yes	Outer race alloy steel,with grease groove and holes, inner race surface hard chrome plated.Inch dimensions.
	COM...T HCOM...T	4.83-25.4 25.4-50.8	Steel/PTFE Steel/PTFE	No No	Outer race alloy steel,PTFE lined, inner race surface hard chrome plated.Inch dimensions.
	SCOM	4.83-25.4	Steel/Steel	Yes	Outer and inner races are both stainless steel,Inch dimensions.
	SCOM..T	4.83-25.4	Steel/PTFE	No	Outer and inner races are both stainless steel,PTFE composite bonded to I.D of inner race,Inner race surface hard chrome plated, Inch dimensions.
	MIB... AIB... SIB...	4.82-25.4	Steel/Steel	Yes	Inner race heat treated,Hard chrome plated,Outer race extruded,Material in carbon steel(MIB),alloy steel(AIB) and stainless steel(SIB)respectively.
	MIB...T AIB...T SIB...T WSSB... NSSB...	4.82-25.4	Steel/PTFE	No	Outer race extruded,PTFE lined; Outer and inner races for WSSB..., NSSB...are stainless steel.
	WSSB...V NSSB...V	4.82-25.4	Steel/PTFE	No	Outer race extruded,with staking grooves,PTFE lined; Outer and inner races are stainless steel.
	YSSB	6.35-19.05	Steel/PTFE	No	Outer race extruded,PTFE lined; Outer and inner races are stainless steel.Inner races extended on both sides.

Structure	Series	Size range (mm)	Sliding contact surface	If requiring relubrication	Design characteristics
	YSSB-V	6.35-19.05	Steel/PTFE	No	Outer race extruded,PTFE lined; Outer and inner races are stainless steel.Inner races extended on both sides.With staking grooves on outer races.
	CLEVIS END FEMALE DIN71752	4-16			Used for suspension or drag.It's the main part of the clevis end,can be provided individually upon request. Stainless steel or Steel parts are optional for different application. Steel parts' surface galvanized.
	CLEVIS END MALE DIN71752	6-20			Used for suspension or drag,can be provided individually upon request. Stainless steel or Steel parts are optional for different application. Steel parts' surface galvanized.
	CLEVIS END ASSEMBLY DIN71751	4-16	Steel/Steel		Used for suspension or drag.The two rods connected with this assembly can only swing within same surface.Stainless steel or steel parts are optional for different application.Steel parts' surface galvanized.
	SPHERICAL BALL TK	5-30			Used exclusively for inner race of rod end bearings.Metric series. Stainless steel material is optional for special application.
	SPHERICAL BALL CBL..DP	4.8-25.4			Used exclusively for inner race of rod end bearings.Imperial series. Stainless steel material is optional for special application.
	SPHERICAL BALL HJMX	9.52-19.05			Used in inner race of radial spherical plain bearings.Imperial series.Steps on both ends. Ball surface hard chrome plated. Stainless steel material is optional for special application.
	SPHERICAL BALL B-GE..C	4-30			Used for the inner race of sliding bearing, Metric & Light duty series. Ball surface hard chrome plated. Metric & heavy duty series GEG..C is also available.Stainless steel material is optional for special application.
	SPHERICAL BALL B-COM	4.8-25.4			Used in inner race of radial spherical plain bearing.Imperial series.Ball surface hard chrome plated, Stainless steel material is optional for special application.