

SRG

Universal Joint Bearing



SRG BEARINGS

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About us 公司简介

SRG Bearings is an internationally renowned bearing brand belonging to SRG GROUP LIMITED. It is a bearing factory that integrates bearing production, research and development, and export. We mainly provide roller and ball bearings.

SRG Bearing Factory was established in 1997 and is located in Liaocheng City, Shandong Province. It is a long-standing bearing production enterprise. We have 120 CNC machine tools, 6 bearing processing production lines, and can independently complete bearing production, assembly, precision grinding, heat treatment, and other processes. The inner bore size range is from 3mm to 6.5m, and the weight range is from 10.5g to 2.6 tons.

Our main products include:

Miniature and medium-sized deep groove ball bearings

Double row self-aligning roller bearings

Four-row heavy-duty cylindrical roller bearings

Self-aligning roller bearings

Thrust ball bearings, thrust ball and roller bearings

Single and double row tapered roller bearings

Needle roller bearings

High-precision spindle bearings

Pillow block bearings, shaft sleeves, steel balls

Technical support

Maintenance and repair

Product training

SRG bearings are widely used in railways, mines, machinery, automobiles, ships, metallurgy, petroleum, electricity, agriculture, textile, and aviation industries.

SRG products have been sold to Europe, Asia, America, and Southeast Asia, which are our most important markets. We have spent a lot of time developing new products while also producing high-quality products. We are popular both domestically and internationally.

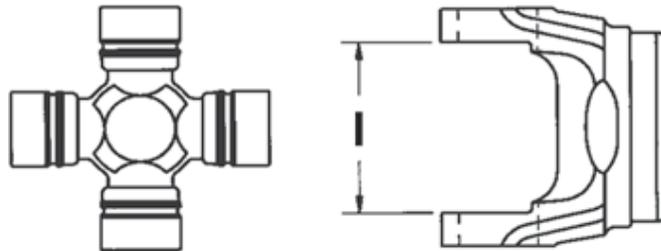
We welcome your inquiries and look forward to future cooperation.

Product introduce

INSIDE LOCK-UP

This universal joint design uses round bearing cups with a snap ring groove on the outside diameter of the bearings and machined flat surfaces on the inside of the yoke ears. It is easier to measure the lock-up for this style by measuring the yoke from inside ear to inside ear. If the yoke is not available, lock-up can be measured on the universal joint itself.

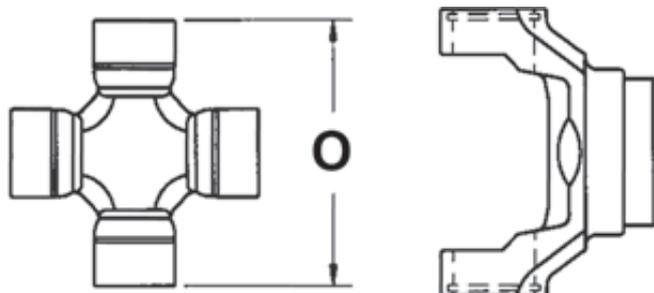
1. Assemble bearing cups onto cross.
2. Install snap rings in bearing grooves.
3. Remove rubber seals or clamp bearing cups with a C-clamp or vise.
4. Measure across all four snap rings - "A".
5. Measure outside diameters of all four bearing cups. Conversion joints and some OE applications use two different diameter bearing cups.



OUTSIDE LOCK-UP

This universal joint design uses round bearing cups with a flat ground back surface. The cups are retained in the yoke by a snap ring that locks into a groove in the yoke crosshole.

1. Assemble bearing cups onto cross.
2. Remove rubber seals or clamp bearing cups with a C-clamp or vise.
3. Measure across the outsides of all four bearing cups - "B"
4. Measure outside diameters of all four bearing cups. Conversion joints and some OE applications use two different diameter bearing cups.



PLASTIC INJECTION

This style of lock-up was used only in OEM Saginaw CV applications. When disassembled, OE joints are replaced with standard universal joint kits using inside lock-up.

U-B OLT & BEARING STRAP

These two types of universal joints use round bearings secured in the yoke ears by a U-shaped bolt or strap that fits over the bearing cup. Measure in the same manner as outside lock-up.

RETAINER PLATE

These universal joint kits use a flat plate welded to the back surface of the bearing cups. Two bolts retain each bearing in the yoke ears. Heavy Duty series using this style are 1610, 1710, 1760, 1800* and 1810. Basic reference dimensions required to identify each one are listed below. Measure between the inside surfaces of the retainer plates or between the outside surfaces of the yoke ears.

LOCK-UP	SERIES	KIT NO.
5 ⁵ / ₁₆ "	1610	4-0279
6 ³ / ₃₂ "	1710	5-0280
6 ⁶³ / ₆₄ "	1760	6-0407
6 ¹⁹ / ₃₂ "	1800	6-0124
7 ¹⁷ / ₃₂ "	1810	6-0281

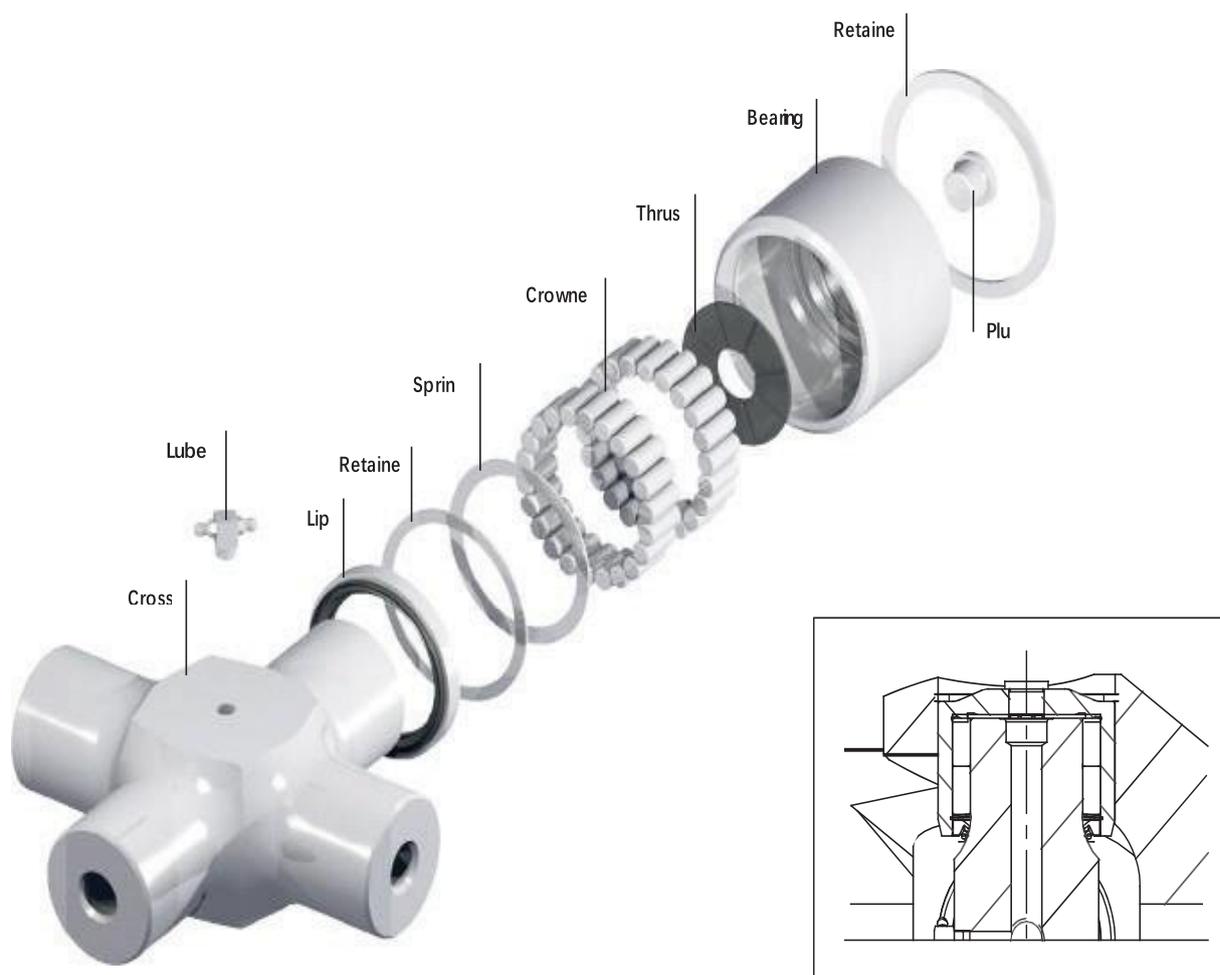
*1800 series driveline components obsolete - only universal joint kits available.

MECHANICS DESIGN

(WING & BLOCK BUSHINGS)

This universal joint design uses a block- or wing- style bearing cup that locates in a flat flange-type yoke with a tongue and groove arrangement. Identify the bearing shape on the previous diagram. Some applications use two different bearing types.

1. Assemble bearing cups onto cross.
2. Clamp the bearings with C-clamp or vise.
3. Measure across two bearings, in the same manner as outside lock-up.



Radius Shoulder Trunions—Shoulder has generous radius at base of cross trunion to reduce

stress.

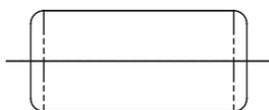
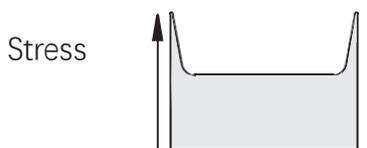
Double-Lip Seal—Abrasion resistant multi-lip extruder type seals to insure integrity of the bearing lube reservoir.

Thrust Bearings—Each cap has a filled nylon compound thrust washer to prevent steel-on-steel contact of the trunion to minimize friction and prevent galling under heavy loads. Filled nylon bearings automatically adjust themselves to compensate for minor deflections.

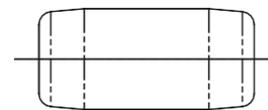
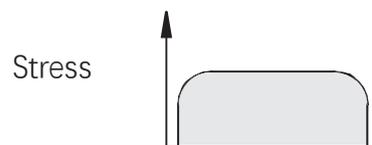
Crowned Rollers—Eliminate stress concentrations at the ends of the rollers. The reduction in stress contributes significantly to increased bearing (B10) life.

Zero Clearance Assembly—Cross and bearing assembled for zero radial clearance for optimum thrust and radial bearing performance and elimination of radial whirl and associated vibrations.

Contoured Bearing Caps—Allows longer cross journals for increased torque and bearing capacity.



Straight Roller



Crowned Roller

Standard Design Universal Joint

- Journals cross is a high quality Alloy steel forging
- Journal crosses are heat treated in a carburizing process that produces bearing quality case hardened steel which maximizes life expectancy.
- End lube option features the grease fitting in the bearing cup.
- Bearing caps are extruded, carburized and case hardened to a uniform depth for strength and durability. Cup face and outer diameter are precision ground for precise lock-up tolerances and fit to yoke ear dimensions. Needle bearings are sized for maximum load carrying capacity.
- Seals are made of nitrile rubber for optimal grease retention and contaminant exclusion. They are pliable, yet tough and abrasion resistant.
- Lubrication grooves feature a 360 degree pattern which assures that grease penetrates around the entire circumference of the journal and between all needle bearings.



Premium Design Universal Joint

- Red High Performance seals are made of nitrile rubber for optimal sealing and temperature resistance.
- Bearing cups are pre-lubricated for life with synthetic lithium grease, providing superior friction reduction and higher temperature resistance.
- Nitrile rubber seal compound has internal lubricant to reduce friction between sealing surfaces.
- Nitrile rubber seal compound has Anti-Ozonant for resistance to ozone attack and to reduce cracking from oxidation.
- Journals are solid for higher load-carrying capacity.
- Grease reservoirs are located in each journal end to assure lubrication.
- Solid forged cross body increases the strength of the joint for rigorous loads.



SRG Design Universal Joint

- Specifically designed for use in vehicles originally equipped with Aluminum driveshaft yokes.

- Appropriate bearing cups and snap rings are protected by OEM approved coating process that resists corrosion.
- Corrosion resistant surface prevents electrolysis (Galvanic Corrosion) between Aluminum and steel surfaces that are in contact.
- Retains ALL of the quality features of our Premium Universal Joint.
- OEM driveshaft applications can be verified by using a magnet against the driveshaft tubing. Non-magnetic driveshafts should use Universal Joints.



Wing Bearing Style Universal Joint

- Bearing cups are made from formed bar stock or precision forgings.
- Bearing surfaces are case hardened to a uniform depth for strength and durability.
- Mounting key and bolt holes are machined for a precise fit to mating parts.
- Needle bearings are made from the highest quality bearing steel and are sized for maximum life and load carrying capabilities.
- Seals are made of nitrile rubber or cork for optimal grease retention and contaminant exclusion.
- Lubrication channels and grooves are provided to allow positive greasing of each bearing cup for extended joint life.
- Trunnions are put through a deep carburization process and ground to precision tolerances to insure maximum life expectancy and smooth running surfaces.
- Journal trunnion ends are ground to length to insure proper fit of mating parts.



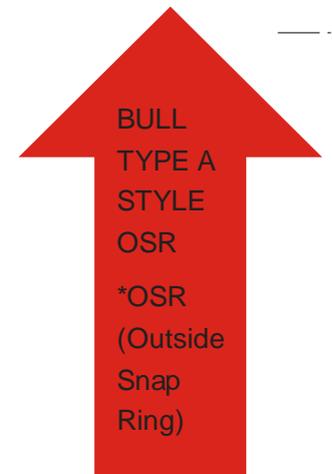
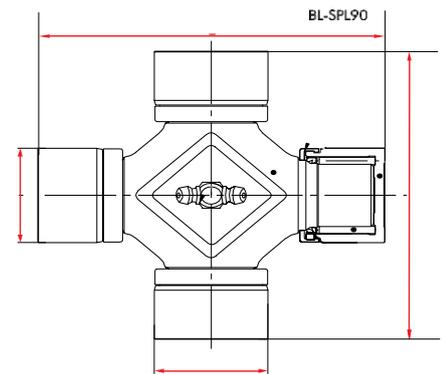
Heavy Duty Truck Universal Joint

- Back plate flanges are precision formed for controlled lock-up and are welded to case hardened cups for strength and durability.

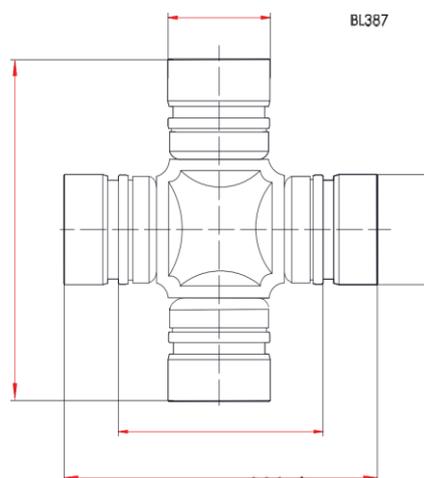
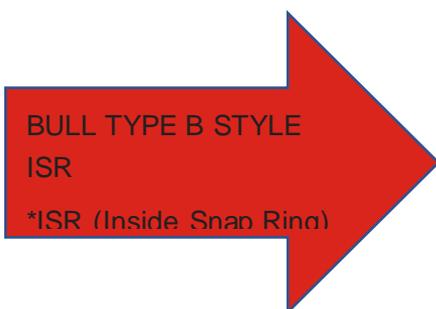
- Needle bearings are heat treated and have spherical ends to adjust for load variations. Bearing cups feature crown ground inside diameters for superior load distribution.
- Bearing Cup leading edge is set at a six degree angle for ease of installation. Each cup contains an integral thrust pad positioned to absorb the various thrust and shock loads found in Heavy Duty applications.
- Integral grease channels to allow for 360 degree grease distribution at all times.
- Labyrinth sealing system constructed in metal, rubber, and Nylatron (a reinforced nylon material) extends the life of the universal joint by providing maximum grease retention and dirt exclusion.
- One way check valve in each trunnion controls lubrication flow and prevents Dry Start Up.
- Journals are heat treated, case hardened, and carburized for strength and durability. Deep lubrication reservoirs are engineered into the journal for additional lubrication capacity.
- Journal cross is a drop forged alloy steel which ensures strength and durability.
- Twin zerk fittings allow the mechanic easier access to the universal joint.



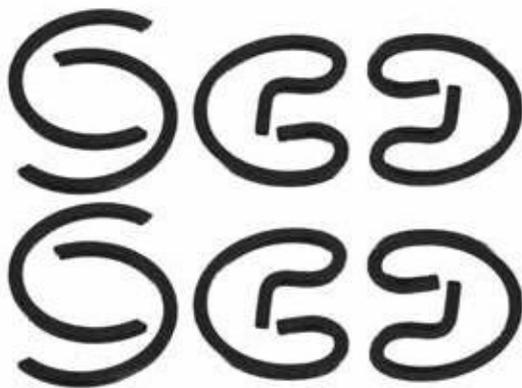
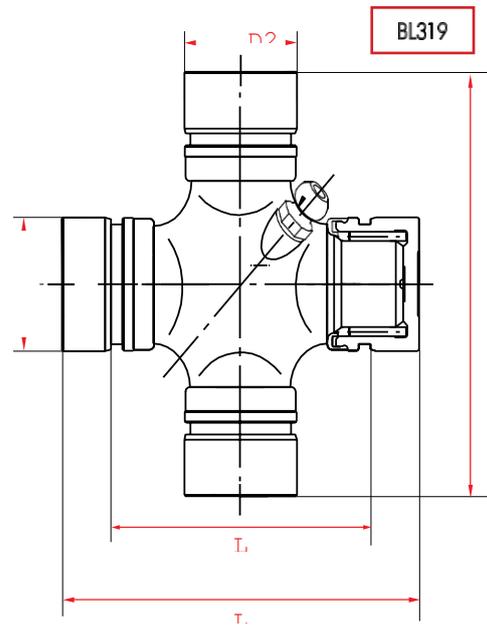
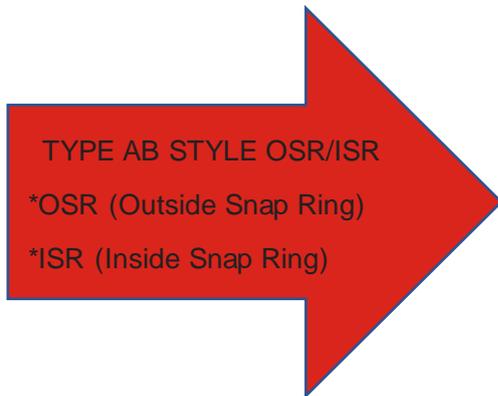
Number	PRECISION	SPICER	NEAPCO	D1	D2	L1	L2	L3
BL12062				48.05	48.05	161.00	161.00	
BL12072				57.00	57.00	164.00	164.00	
BL12100				45.00	45.00	120.40	120.40	
BL12276				44.00	44.00	149.00	149.00	
BL329	329	5-153X 5-1310X	1-0200	27.00	27.00	81.78	91.99	
BL330	330	5-160X 5-462X 5-481X	2-0054	30.19	30.19	106.35	106.35	
BL331	331	5-178X 5-1350X	2-0053	30.19	30.19	92.08	92.08	
BL340	340	5-101X 5-102X	1-0300	23.82	23.82	61.30	61.30	
BL341	341	5-101X	1-0300	23.82	23.82	61.30	61.30	
BL344	344	5-4X	1-0005	27.00	27.00	74.60	74.60	
BL348	348	5-648X	3-3140	27.00	30.19	92.08	81.80	
BL351	351	5-188X	3-0188	34.93	34.93	106.31	106.31	
BL353	353	5-134X	1-0134	27.00	27.00	92.08	81.78	
BL354	354	5-213X 5-1330X	2-4800	27.00	27.00	92.00	92.00	
BL358	358	5-155X	3-0155	34.93	34.93	126.22	126.22	
BL369	369	5-153X 5-1310X		27.00	27.00	91.99	91.99	
BL370	370			39.67	39.67	115.87	115.87	
BL380	380	5-153X 5-433-1X	1-0154	27.00	27.00	81.78	81.78	
BL382	382			33.00	33.00	93.00	93.00	
BL395	395		1-0011	20.01	20.01	56.99	56.99	
BL398	398	5-1503X	1-1557	25.00	25.00	63.80	63.80	
BL399		5-1516X		25.00	25.00	76.12	76.12	
BL437G	437G	5-443X	1-0443	27.00	27.00	61.93	61.93	
BL448	448	5-460X	2-3050	27.00	30.19	92.08	92.08	
BL462	462			40.00	40.00	115.00	115.00	
BL964	964	5-243X	2-2275	31.75	31.75	81.40	81.40	
BL-GUT24				22.06	22.06	57.50	57.50	
BL-SPL90		SPL90X SPL100-1X		41.28	41.28	126.00	126.00	



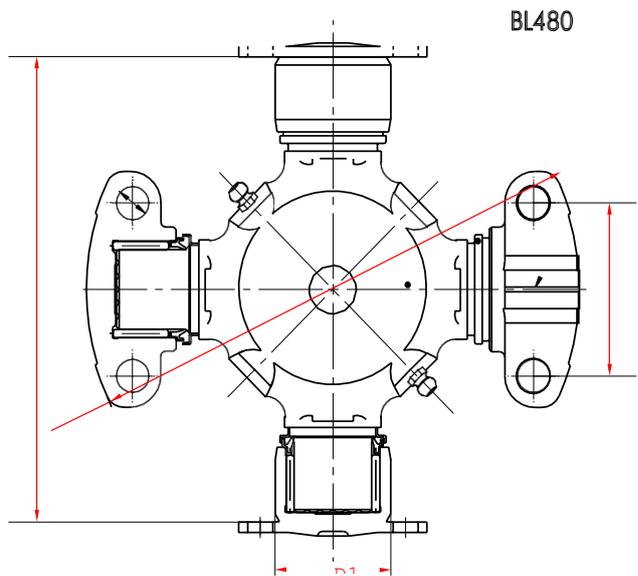
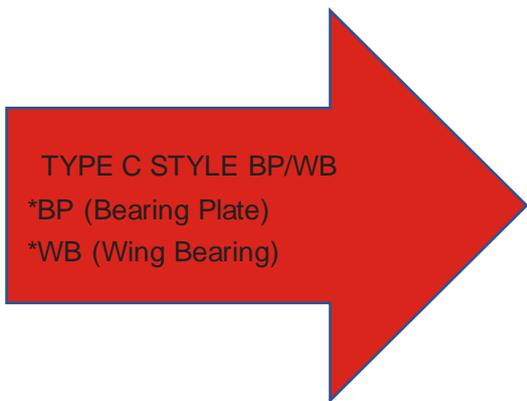
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BL12213				38.00	38.00			62.30
BL304	304			31.30	31.30			76.40
BL315G	315G		1-6301	27.40	27.40			53.80
BL316	316	5-811X	2-1175	28.60	28.60	92.36	92.36	66.96
BL317	317		1-6300	27.40	27.40	81.80	81.80	53.80
BL338	338	5-170X	1-0170	23.83	23.83	59.85	59.85	37.85
BL356	356		1-0174	27.00	27.00			55.50
BL365	365		1-0174	27.00	27.00			55.50
BL371	371	5-297X	1-0297	30.20	30.20	81.78	81.78	55.50
BL377	377			30.20	30.20			55.50
BL383	383	5-1515X	2-0383	29.00	29.00			53.00
BL384	384	5-1507X	1-1610	28.00	28.00	80.00	80.00	59.00
BL386	386	5-1513X	1-1608	26.50	26.50			50.80
BL387	387	5-1510X	1-1216	29.00	29.00			52.00
BL389	389	5-1511X	2-0020	32.00	32.00			64.00
BL390	390	5-1508X	1-0012	26.00	26.00			56.00
BL391	391	5-1501X	1-0027	25.02	25.02			44.00
BL393	393	5-1505X	1-0029	28.02	28.02			56.10
BL433	433	5-213X	2-4800	27.00	27.00			70.60
BL436	436	5-456X		27.00	27.00			41.38
BL446	446			27.00	27.00			49.00
BL492	492	5-795X		28.60	28.60			65.00
BL507	507	5-2011X	1-3600	25.40	25.40			59.50
BL514G	514	5-105X		25.40	25.40	63.80	63.80	40.14
BL534G	534G	5-3147X	2-3011	28.60	28.60			65.00
BL860	860	5-92X		24.60	24.60			36.60
BL861	861	5-92X	1-1475	24.60	24.60			36.60
BL995	995	5-242X		27.04	27.04	63.76	63.76	46.00
BL93M			2-0151	30.00	30.00	85.00	85.00	55.49



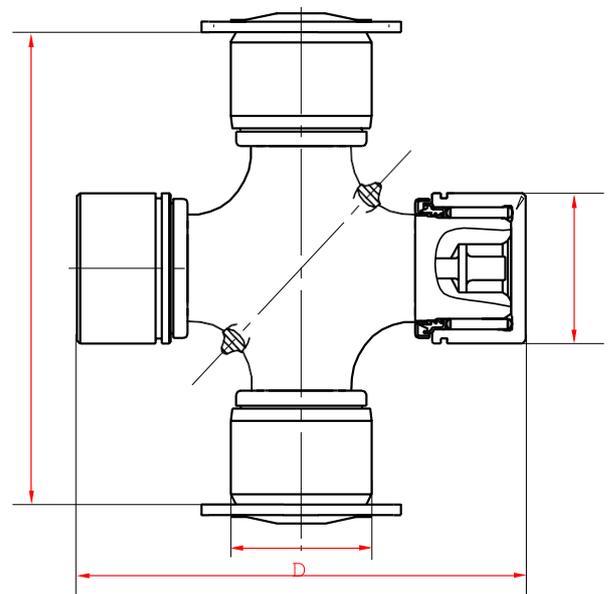
Number	PRECISION	SPICER	NEAPCO	D1	D2	L1	L2	L3
BL319	319	5-353X	2-3100	27.00	27.40	81.78	81.78	53.80
BL355	355		2-1569	27.00	28.60	92.00	92.00	64.80
BL361	361	5-248X	1-0248	25.42	27.00	61.95	61.95	43.60
BL372	372	5-3022X	3-3130	27.00	28.60	81.78	92.00	65.00
BL430	430	5-7439X	1-4635	27.00	28.60	81.60	81.60	59.50
BL434	434			27.00	28.60	92.00	92.00	70.60
BL447	447			30.17	28.57	91.99	65.02	



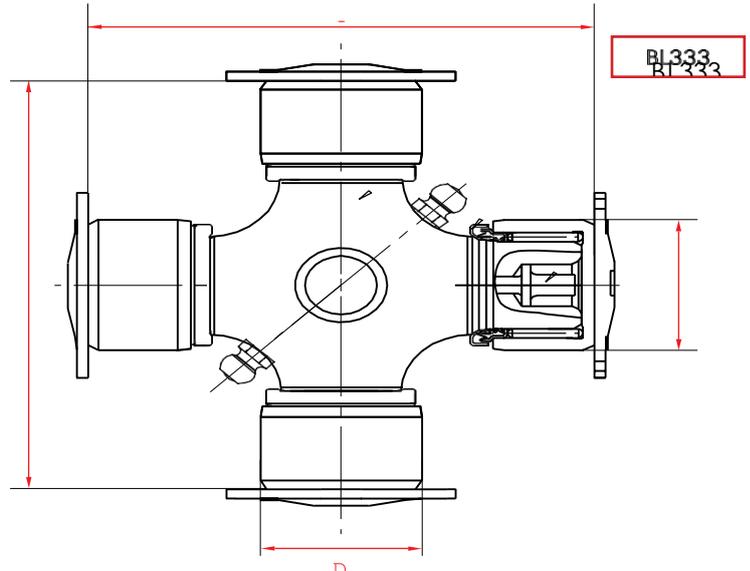
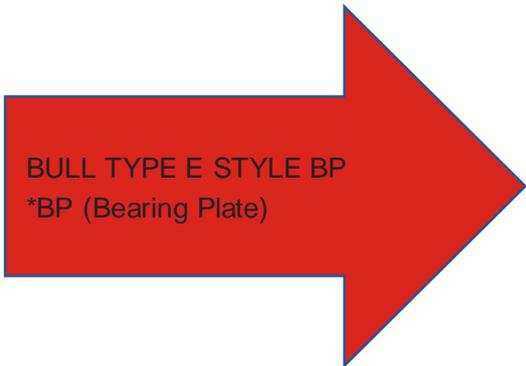
Number	PRECISION	SPICER	NEAPCO	D1	D2	L1	L2	L3
BL480	480	5-324X	6-0324	49.20	71.40	191.86	209.52	
BL488	488	5-326X	6-0326	55.57	71.42	205.58	209.55	



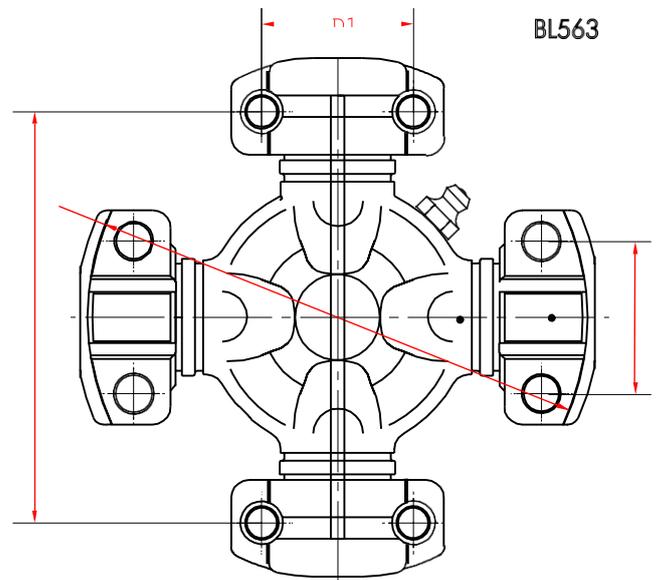
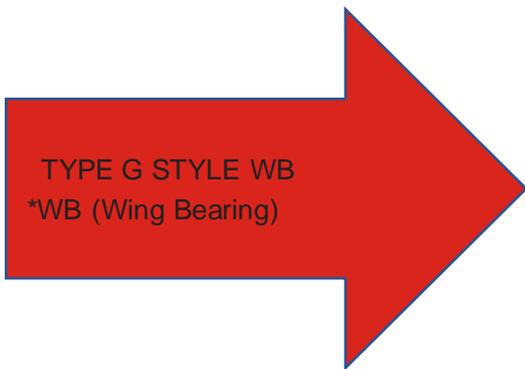
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BL475	475	5-674X	4-7291	47.62	47.62	135.00	135.00	
BL476	476	5-675X 5-515X	5-2801	49.20	49.20	157.10	154.80	
BL477	477	5-677X 5-469X	6-0677	49.20	49.20	179.98	177.98	
BL478	478	5-676X 5-510X		49.20	49.20	194.00	191.86	



Number	PRECISION	SPICER	NEAPCO	D1	D2	L1	L2	L3
BL333	333	5-279X	4-0279	47.62	47.62	135.03	135.03	
BL334	334	5-280X	5-0280	49.20	49.20	154.86	154.86	
BL335	335	5-124X	6-0124	58.98	58.98	167.58	167.58	
BL376	376	5-407X	6-0407	49.20	49.20	177.93	177.93	
BL381	381	5-281X	6-0281	49.20	49.20	191.86	191.86	

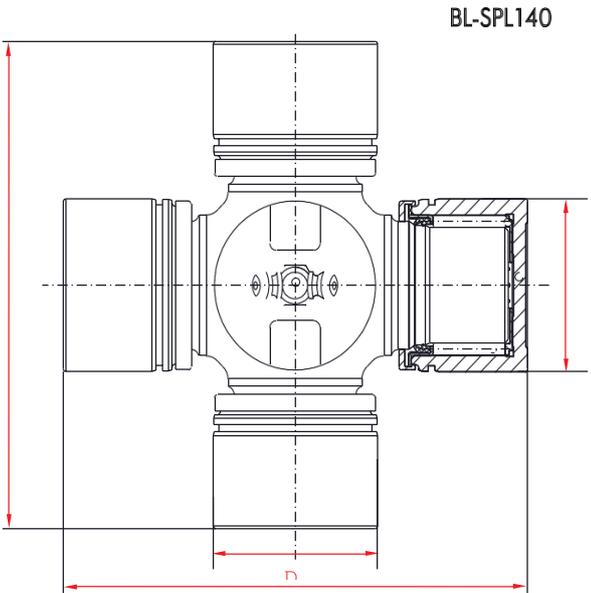


Number	PRECISION	SPICER	NEAPCO	D1	D2	L1	L2	L3
BL560	560	5-6000X	4-5122	42.80	42.80	140.20	114.20	
BL563	563	6C-9X	4-6114	42.80	42.80	140.20	114.20	
BL7100		5-7000X		49.22	49.22	148.43	148.43	
BL905	905	5-6106X	4-6128	42.80	42.80	140.20	114.20	
BL951	951	5-2002X	1-2171	33.34	33.34	79.00	59.54	

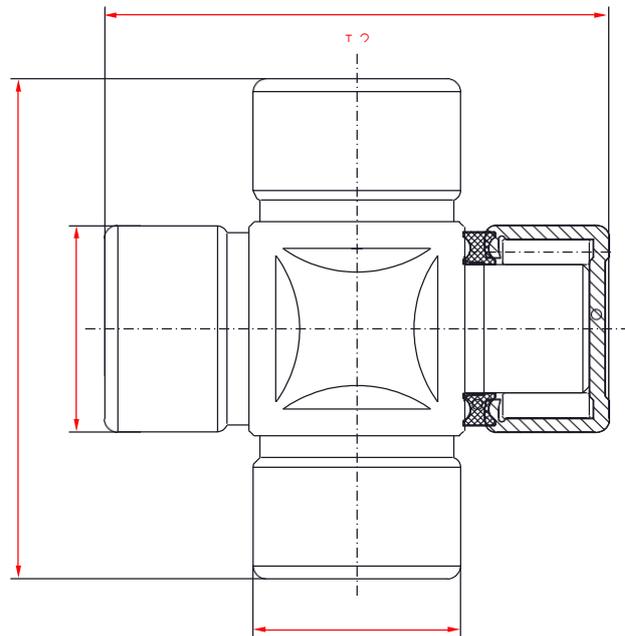
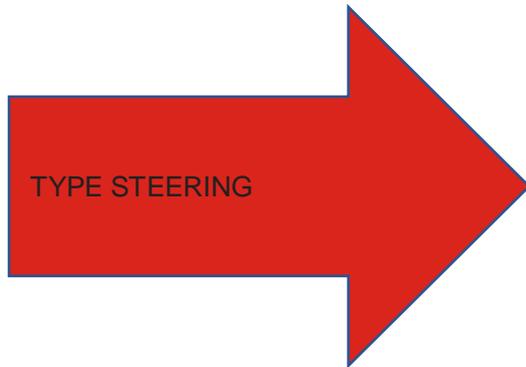


Number	PRECISION	SPICER	NEAPCO	D1	D2	L1	L2	L3
BL1651032				50.05	50.05	152.70	152.70	
BL1651229				57.07	57.07	152.80	152.80	
BL-SPL140		SPL140X		49.20	49.20	138.80	138.80	
BL-SPL170	3947697	SPL170X SPL170X-3X	2500678C91	55.00	55.00	164.20	164.20	
BL-SPL250	3947698	SPL250X	2500680C91	60.00	60.00	163.20	163.20	

TYPE SPL
 STYLE SPL/THDPLT
 * SPL (Spice Life Series)



Number	PRECISION	D1	D2	L1	L2	L3
BL15-38ST		15.05	15.05	38.00	38.00	
BL15-40ST		15.00	15.00	40.00	40.00	
BL16-38ST	ISUZU	16.05	16.05	38.00	38.00	
BL16-39ST	ISUZU	16.05	16.05	39.00	39.00	
BL16-40ST	ISUZU	16.03	16.03	38.50	38.50	
BL19-48ST	KENWORTH	19.06	19.06	47.60	47.60	



Number	SPICER	NEAPCO	D1	D2	L1	L2	L3
BL-CP20RPLS	CP20RPLS	6-0020	52.32	52.32	134.62	174.75	
BL-CP25RPLS	CP25RPLS	6-0025	52.32	52.32	168.40	208.28	



Product Center Supprts



BL88107ACS

SLIP-YOKE TUBE STYLE



BL5-37510-008-0

SLIP-YOKE TUBE STYLE



BL88508ACS

SLIP-YOKE TUBE STYLE



BL88509AC

SLIP-YOKE TUBE STYLE



BL88510ACS

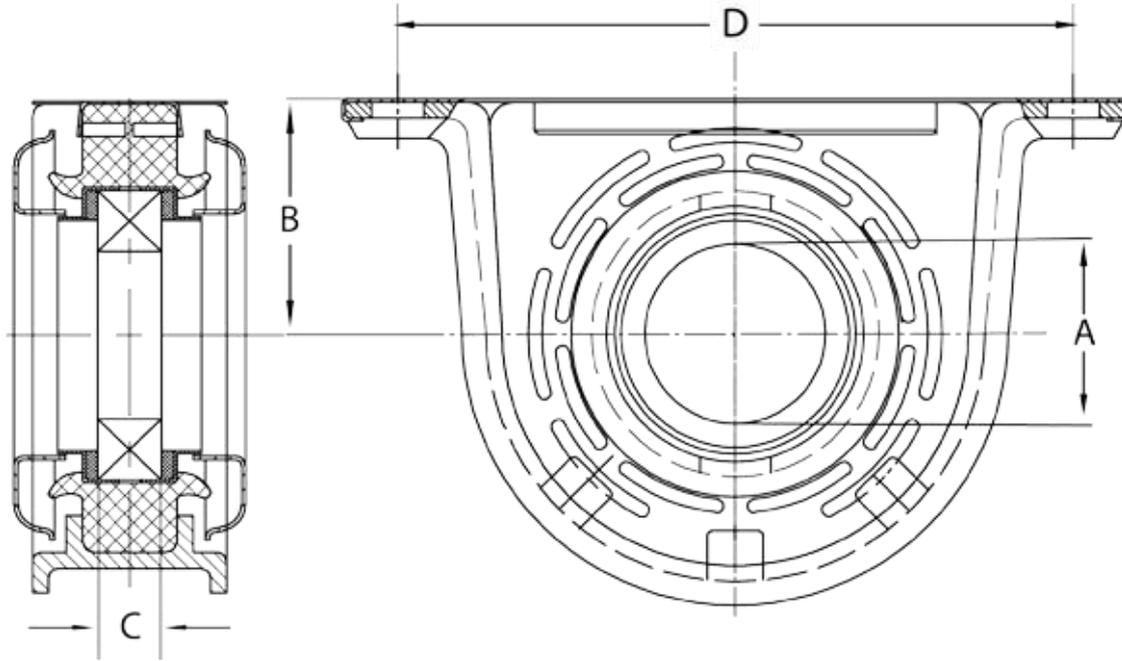
SLIP-YOKE TUBE STYLE



BL88512ACS

SLIP-YOKE TUBE STYLE

CENTER BEARING NO	BEARING ONLY	RUBBER ONLY	CROSS REFENCE	BEARING INSIDE DIAMETER "A"	HEIGHT "B"	BEARING WIDTH "C"	MOUNTING HOLES "D"
BL88107A			902010T-X	40.00	56.50	22.24	168.12
BL88107ACS		BL88107AR	210088-1X	35.00	56.50	24.95	167.30
BL5-37510-008-0			5-37510-008-0	32.00	65.00	20.00	158.40
BL88508ACS	BL88508AB	BL88508AR	210391-1X	40.00	60.00	27.01	168.10
BL88509ACS	BL88509AB	BL88509AR	210084-2X	45.00	68.26	26.98	168.21
BL88510ACS	BL88510AB	BL88510AR	210121-1X	50.00	71.43	30.02	193.67
BL88512ACS	BL88512AB	BL88512AR	210661-1X	60.00	85.72	35.71	219.07



GMB					
NO	BULL	NO	BULL	NO	BULL
G5-103X	BL338	G5-3009X	BL355	GU-400	BL340
G5-1201X	BL430	G5-3105X	BL534G	GU-400	BL341
G5-1203	BL354	G5-324X	BL480	GU-500	BL340
G5-1203X	BL433	G5-352X	BL353	GU-500	BL341
G5-1204	BL434	G5-353X	BL319	GU-700	BL338
G5-124X	BL335	G5-356X	BL372	GUA-7	BL813
G5-1301X	BL304	G5-358X	BL348	GUIS-52	BL383
G5-1306-1X	BL317	G5-3999X	BL534G	GUM-81	BL398
G5-1306HD	BL315G	G5-407X	BL376	GUM-93	BL93M
G5-1309X	BL316	G5-456X	BL436	GUMZ-10	BL385
G5-188X	BL351	G5-5000X	BL560	GUMZ-6	BL384
G5-2011X	BL507	G5-6106X	BL905	GUMZ-9	BL386
G5-242X	BL995	G5-7000X	BL7100	GUN-27	BL391
G5-248X	BL361	GGPL-12R	BL995	GUN-29	BL393
G5-260X	BL365	GGPL-35R	BL964	GUN-30	BL331
G5-273X	BL433	GGPL-6R	BL861	GUT-12	BL390
G5-279X	BL333	GU-100	BL329	GUT-20	BL389
G5-280X	BL334	GU-1100	BL344	GUT11	BL395
G5-281X	BL381	GU-2000	BL356	W3152	BL536
G5-297X	BL371	GU-2050	BL330		
G5-297X1	BL377	GU-3000	BL437G		

PRECISION					
NO	BULL	NO	BULL	NO	BULL
304	BL304	372	BL372	476	BL476
316	BL316	376	BL376	477	BL477
317	BL317	377	BL377	478	BL478
319	BL319	380	BL380	480	BL480
329	BL329	381	BL381	488	BL488
330	BL330	382	BL382	492	BL492
331	BL331	383	BL383	507	BL507
333	BL333	384	BL384	514	BL514G
334	BL334	385	BL385	560	BL560
335	BL335	386	BL386	563	BL563
338	BL338	387	BL387	785	BL785
340	BL340	389	BL389	811	BL811
341	BL341	390	BL390	813	BL813
344	BL344	391	BL391	860	BL860
348	BL348	393	BL393	861	BL861
351	BL351	395	BL395	905	BL905
353	BL353	398	BL398	951	BL951
354	BL354	430	BL430	964	BL964
355	BL355	433	BL433	983	BL983
356	BL356	434	BL434	995	BL995
358	BL358	436	BL436	3947697	BL-SPL170
361	BL361	446	BL446	3947698	BL-SPL250
365	BL365	447	BL447	315G	BL315G
369	BL369	448	BL448	437G	BL437G
370	BL370	462	BL462	534G	BL534G
371	BL371	475	BL475		

NEAPCO					
NO	BULL	NO	BULL	NO	BULL
1-0005	BL344	1-1604	BL385	2500678C91	BL-SPL170
1-0011	BL395	1-1608	BL386	2500680C91	BL-SPL250
1-0012	BL390	1-1610	BL384	3-0056	BL304
1-0027	BL391	1-2171	BL951	3-0155	BL358
1-0029	BL393	1-3600	BL507	3-0188	BL351
1-0061	BL983	1-4635	BL430	3-3130	BL372
1-0121	BL811	1-6300	BL317	3-3140	BL348
1-0134	BL353	1-6301	BL315G	4-0279	BL333
1-0154	BL380	2-0020	BL389	4-2791	BL475
1-0170	BL338	2-0053	BL331	4-5122	BL560
1-0174	BL356	2-0054	BL330	4-6114	BL563
1-0174	BL365	2-0151	BL93M	4-6128	BL905
1-0200	BL329	2-0383	BL383	5-0280	BL334
1-0248	BL361	2-1175	BL316	5-2801	BL476
1-0297	BL371	2-1569	BL355	6-0020	BL-CP20RPLS
1-0300	BL340	2-2275	BL964	6-0025	BL-CP25RPLS
1-0300	BL341	2-3011	BL534G	6-0124	BL335
1-0321	BL813	2-3050	BL448	6-0281	BL381
1-0443	BL437G	2-3100	BL319	6-0324	BL480
1-1216	BL387	2-3111	BL492	6-0326	BL488
1-1275	BL995	2-4800	BL354	6-0407	BL376
1-1475	BL861	2-4800	BL433	6-0677	BL477
1-1557	BL398	2-4900	BL434	6-8514	BL785

SPICER					
NO	BULL	NO	BULL	NO	BULL
5-101X	BL340	5-155X	BL358	5-469X	BL477
5-101X	BL341	5-160X	BL330	5-481X	BL330
5-102X	BL340	5-170X	BL338	5-4X	BL344
5-103X	BL338	5-178X	BL331	5-515X	BL476
5-105X	BL514G	5-188X	BL351	5-6000X	BL560
5-1201X	BL430	5-2002X	BL951	5-6102X	BL563
5-1204X	BL434	5-2011X	BL507	5-6106X	BL905
5-124X	BL335	5-212X	BL355	5-648X	BL348
5-1301X	BL304	5-213X	BL354	5-674X	BL475
5-1306-1X	BL317	5-213X	BL433	5-675X	BL476
5-1306X	BL315G	5-242X	BL995	5-676X	BL478
5-1309X	BL316	5-243X	BL964	5-677X	BL477
5-1310X	BL329	5-248X	BL361	5-7000X	BL7100
5-1310X	BL369	5-260X	BL356	5-7439X	BL430
5-1330X	BL354	5-260X	BL365	5-760X	BL371
5-134X	BL353	5-279X	BL333	5-788X	BL319
5-1350X	BL331	5-280X	BL334	5-795X	BL492
5-1501X	BL391	5-281X	BL381	5-811X	BL316
5-1503X	BL398	5-297X	BL371	5-92X	BL860
5-1505X	BL393	5-297X-1	BL377	5-92X	BL861
5-1507X	BL384	5-3022X	BL372	6C-9X	BL563
5-1508X	BL390	5-3147X	BL534G	CP20RPLS	BL-CP20RPLS
5-1510X	BL387	5-324X	BL480	CP25RPLS	BL-CP25RPLS
5-1511X	BL389	5-326X	BL488	SPL100-1X	BL-SPL90
5-1513X	BL386	5-353X	BL319	SPL140X	BL-SPL140
5-1514X	BL385	5-407X	BL376	SPL170X	BL-SPL170
5-1515X	BL383	5-433-1X	BL380	SPL170X-3X	BL-SPL170
5-1516X	BL399	5-443X	BL437G	SPL250X	BL-SPL250
5-153X	BL329	5-456X	BL436	SPL250X-3X	BL-SPL250
5-153X	BL369	5-460X	BL448	SPL90X	BL-SPL90
5-153X	BL380	5-462X	BL330		