



English



Español



Italiano



Deutsch



Français



Nederlands



Polskie

PHS-NYLON series

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Serie PHS-NYLON • SeriePHS-NYLON • PHS-NYLON-Serie

Série PHS-NYLON • PHS-NYLON-Serie • Seria PHS-NYLON

PHS-PU series

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Serie PHS-PU • Serie PHS-PU • PHS-PU-Serie

Série PHS-PU • PHS-PU-Serie • Seria PHS-PU

RF series

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Serie RF • Serie RF • RF-Serie

Série RF • RF-Serie • Seria RF

PHS-BRONZE series

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Serie PHS-BRONZE • Serie PHS-BRONZE • PHS-BRONZE-Serie

Série PHS-BRONZE • PHS-BRONZE-Serie • Seria PHS-BRONZE

PHS-PTFE series

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Serie PHS-PTFE • Serie PHS-PTFE • FPHS-PTFE-Serie

Série PHS-PTFE • PHS-PTFE-Serie • Seria PHS-PTFE

FX series

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Serie FX • Serie FX • FX-Serie

Série FX • FX-Serie • Seria FX

AL series

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Serie AL • Serie AL • AL-Serie

Série AL • AL-Serie • Seria AL

DB series

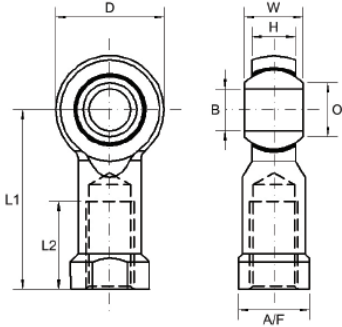
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Serie DB • Serie DB • DB-Serie

Série DB • DB-Serie • Seria DB

FEMALE ROD ENDS





PHS-NYLON SERIES

Description:
FP-Series is our 3-piece standard range of self-lubricating general purpose female rod ends, suitable for light to medium heavy industrial/mechanical load applications requiring low friction and good wear resistance, available in both metric and imperial bore and thread sizes. They have excellent moisture resistance and require no maintenance and have a wide operating temperature range.

Material Specifications:
Housing: Steel 230M07PB and forged 080M46, zinc plated and clear trivalent passivate and stainless steel 303L 304. Race: GR-nylon LV-3H. Ball: Bearing steel 100Cr6, hardened and electroless nickel plated and stainless steel 440C and *SAE660. Stud: Steel 230M07PB zinc plated and clear trivalent passivate and stainless steel 303L.

- Features:**
- Metric & imperial thread & bore sizes
 - Low friction
 - Self-lubricating
 - Good wear resistance
 - Excellent moisture resistance
 - No maintenance

- Studded option**
- Possible Applications:**
- Light to medium/heavy industrial/mechanical applications
 - Construction equipment
 - Agricultural equipment
 - Recreational vehicles

- Precision equipment**
Linear movement
- Temperature Range:**
-30°C to +170°C
- Specification:**
ELV & RoHS compliant

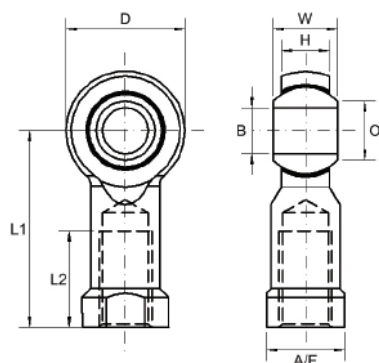
Interchange table

Dunlop	Rose	Tuthill	Alinabal	IKO	SKF	Asahi
PHS-NYLON (metric)	MFP	FJ-M	MPF	PHS-EC	SIKB-F	JAF-EC
PHSB-NYLON (imperial)	RFP-U	FJ	PF	PHSB-EC	-	-

Note: Manufacturers part numbers are used for descriptive purposes only and may not be direct equivalent products.



PHS-NYLON SERIES: MAINTENANCE FREE ROD ENDS WITH FEMALE THREAD (METRIC)



Housing: Steel 230M07Pb (Sizes M03 – M12)
 Forged 080M46 (Sizes M14 – M25)
 Zinc Plated and Clear Trivalent Passivate

Race: GR-Nylon, LV-3H

Ball: Bearing Steel 100Cr6, Hardened
 and Electro-less Nickel Plated

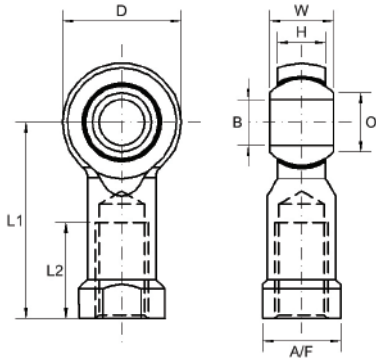
Specification: ELV and RoHS Compliant



Part No. Right Hand	Part No. Left Hand	Bore Size	Thread	W	H	D	L1	L2	O	AF	Static Load Rating Radial (Newtons)
PHS03	PHSL03	3	M3X0.50	6	4.50	12	21	10	5.20	6.5	3,040
PHS04-3	PHSL04-3	3	M4X0.70	7	5.00	14	24	12	6.30	8.0	4,060
PHS04	PHSL04	4	M4X0.70	7	5.00	14	24	12	6.30	8.0	4,060
PHS05-4	PHSL05-4	4	M5X0.80	8	6.00	16	27	14	7.50	9.0	5,340
PHS05	PHSL05	5	M5X0.80	8	6.00	16	27	14	7.50	9.0	5,340
PHS06-5	PHSL06-5	5	M6X1.00	9	6.75	18	30	14	9.30	11.0	7,720
PHS06	PHSL06	6	M6X1.00	9	6.75	18	30	14	9.30	11.0	7,720
PHS08-6	PHSL08-6	6	M8X1.25	12	9.00	22	36	17	10.40	14.0	12,775
PHS08-6C	PHSL08-6C	6	M8X1.00	12	9.00	22	36	17	10.40	14.0	12,775
PHS08	PHSL08	8	M8X1.25	12	9.00	22	36	17	10.40	14.0	12,775
PHS08C	PHSL08C	8	M8X1.00	12	9.00	22	36	17	10.40	14.0	12,775
PHS10-8	PHSL10-8	8	M10X1.50	14	10.50	26	43	21	12.90	17.0	16,960
PHS10-8C	PHSL10-8C	8	M10X1.25	14	10.50	26	43	21	12.90	17.0	16,960
PHS10	PHSL10	10	M10X1.50	14	10.50	26	43	21	12.90	17.0	16,960
PHS10C	PHSL10C	10	M10X1.25	14	10.50	26	43	21	12.90	17.0	16,960
PHS12-10	PHSL12-10	10	M12X1.75	16	12.00	30	50	24	15.40	19.0	22,900
PHS12-10C	PHSL12-10C	10	M12X1.25	16	12.00	30	50	24	15.40	19.0	22,900
PHS12	PHSL12	12	M12X1.75	16	12.00	30	50	24	15.40	19.0	22,900
PHS12C	PHSL12C	12	M12X1.25	16	12.00	30	50	24	15.40	19.0	22,900
PHS14-12	PHSL14-12	12	M14X2.00	19	13.50	34	57	27	16.80	22.0	28,950
PHS14-12C	PHSL14-12C	12	M14X1.50	19	13.50	34	57	27	16.80	22.0	28,950
PHS14	PHSL14	14	M14X2.00	19	13.50	34	57	27	16.80	22.0	28,950
PHS14C	PHSL14C	14	M14X1.50	19	13.50	34	57	27	16.80	22.0	28,950
PHS16-14	PHSL16-14	14	M16X2.00	21	15.00	38	64	33	19.30	22.0	37,130
PHS16-14C	PHSL16-14C	14	M16X1.50	21	15.00	38	64	33	19.30	22.0	37,130
PHS16	PHSL16	16	M16X2.00	21	15.00	38	64	33	19.30	22.0	37,130
PHS16C	PHSL16C	16	M16X1.50	21	15.00	38	64	33	19.30	22.0	37,130
PHS18-16C	PHSL18-16C	16	M18X1.50	23	16.50	46	71	36	21.80	27.0	45,730
PHS18C	PHSL18C	18	M18X1.50	23	16.50	46	71	36	21.80	27.0	45,730
PHS20-18	PHSL20-18	18	M20X2.50	25	18.00	50	77	40	24.50	32.0	55,240
PHS20-18C	PHSL20-18C	18	M20X1.50	25	18.00	50	77	40	24.50	32.0	55,240
PHS20	PHSL20	20	M20X2.50	25	18.00	50	77	40	24.50	32.0	55,240
PHS20C	PHSL20C	20	M20X1.50	25	18.00	50	77	40	24.50	32.0	55,240
PHS22	PHSL22	22	M22X1.50	28	20.00	54	84	43	25.80	32.0	57,420
PHS25	PHSL25	25	M24X2.00	31	22.00	60	94	48	29.60	36.0	67,140

For stainless steel add 'SS' to part no. For example 'PHS-03-NYLON-SS'

PHS-NYLON SERIES: MAINTENANCE FREE ROD ENDS WITH FEMALE THREAD (IMPERIAL)



Housing: Steel 230M07Pb (Sizes 03 - 07)
Forged 080M46 (Sizes 08 - 16)
Zinc Plated and Clear Trivalent Passivate

Race: GR-Nylon, LV-3H

Ball: Bearing Steel 100Cr6, Hardened
and Electro-less Nickel Plated

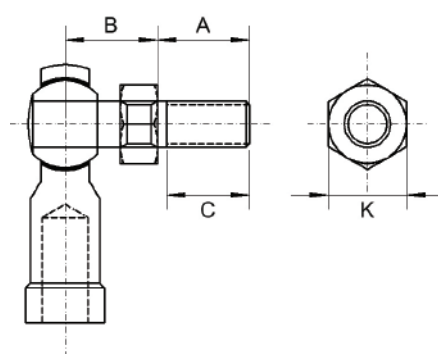
Specification: ELV and RoHS Compliant



Part No. Right Hand	Part No. Left Hand	Bore Size	Thread	W	H	D	L1	L2	O	AF	Static Load Rating Radial (Newtons)
PHSB03	PHSBL03	3/16	10-32 UNF	0.312	0.250	0.625	1.062	0.562	0.306	0.312	5,340
PHSB04-3	PHSBL04-3	3/16	1/4 UNF	0.375	0.281	0.750	1.312	0.750	0.354	0.375	8,450
PHSB04-3F	PHSBL04-3F	3/16	1/4 BSF	0.375	0.281	0.750	1.312	0.750	0.354	0.375	8,450
PHSB04	PHSBL04	1/4	1/4 UNF	0.375	0.281	0.750	1.312	0.750	0.354	0.375	8,450
PHSB04F	PHSBL04F	1/4	1/4 BSF	0.375	0.281	0.750	1.312	0.750	0.354	0.375	8,450
PHSB05-4	PHSBL05-4	1/4	5/16 UNF	0.437	0.344	0.875	1.375	0.750	0.447	0.437	12,010
PHSB05-4F	PHSBL05-4F	1/4	5/16 BSF	0.437	0.344	0.875	1.375	0.750	0.447	0.437	12,010
PHSB05	PHSBL05	5/16	5/16 UNF	0.437	0.344	0.875	1.375	0.750	0.447	0.437	12,010
PHSB05F	PHSBL05F	5/16	5/16 BSF	0.437	0.344	0.875	1.375	0.750	0.447	0.437	12,010
PHSB06-5	PHSBL06-5	5/16	3/8 UNF	0.500	0.406	1.000	1.625	0.932	0.516	0.562	16,900
PHSB06-5F	PHSBL06-5F	5/16	3/8 BSF	0.500	0.406	1.000	1.625	0.932	0.516	0.562	16,900
PHSB06	PHSBL06	3/8	3/8 UNF	0.500	0.406	1.000	1.625	0.932	0.516	0.562	16,900
PHSB06F	PHSBL06F	3/8	3/8 BSF	0.500	0.406	1.000	1.625	0.932	0.516	0.562	16,900
PHSB07-6	PHSBL07-6	3/8	7/16 UNF	0.562	0.437	1.125	1.812	1.062	0.586	0.625	19,750
PHSB07-6F	PHSBL07-6F	3/8	7/16 BSF	0.562	0.437	1.125	1.812	1.062	0.586	0.625	19,750
PHSB07	PHSBL07	7/16	7/16 UNF	0.562	0.437	1.125	1.812	1.062	0.586	0.625	19,750
PHSB07F	PHSBL07F	7/16	7/16 BSF	0.562	0.437	1.125	1.812	1.062	0.586	0.625	19,750
PHSB08-7	PHSBL08-7	7/16	1/2 UNF	0.625	0.500	1.312	2.125	1.187	0.700	0.750	28,900
PHSB08-7F	PHSBL08-7F	7/16	1/2 BSF	0.625	0.500	1.312	2.125	1.187	0.700	0.750	28,900
PHSB08	PHSBL08	1/2	1/2 UNF	0.625	0.500	1.312	2.125	1.187	0.700	0.750	28,900
PHSB08F	PHSBL08F	1/2	1/2 BSF	0.625	0.500	1.312	2.125	1.187	0.700	0.750	28,900
PHSB10-8	PHSBL10-8	1/2	5/8 UNF	0.750	0.562	1.500	2.500	1.500	0.811	0.875	32,000
PHSB10-8F	PHSBL10-8F	1/2	5/8 BSF	0.750	0.562	1.500	2.500	1.500	0.811	0.875	32,000
PHSB10	PHSBL10	5/8	5/8 UNF	0.750	0.562	1.500	2.500	1.500	0.811	0.875	32,000
PHSB10F	PHSBL10F	5/8	5/8 BSF	0.750	0.562	1.500	2.500	1.500	0.811	0.875	32,000
PHSB12-10	PHSBL12-10	5/8	3/4 UNF	0.875	0.687	1.750	2.875	1.562	0.978	1.000	52,400
PHSB12-10F	PHSBL12-10F	5/8	3/4 BSF	0.875	0.687	1.750	2.875	1.562	0.978	1.000	52,400
PHSB12	PHSBL12	3/4	3/4 UNF	0.875	0.687	1.750	2.875	1.562	0.978	1.000	52,400
PHSB12F	PHSBL12F	3/4	3/4 BSF	0.875	0.687	1.750	2.875	1.562	0.978	1.000	52,400
PHSB16-12	PHSBL16-12	3/4	1" UNF	1.375	1.000	2.500	4.125	2.125	1.486	1.500	65,200
PHSB16-12F	PHSBL16-12F	3/4	1" BSF	1.375	1.000	2.500	4.125	2.125	1.486	1.500	65,200
PHSB16	PHSBL16	1	1" UNF	1.375	1.000	2.500	4.125	2.125	1.486	1.500	65,200
PHSB16F	PHSBL16F	1	1" BSF	1.375	1.000	2.500	4.125	2.125	1.486	1.500	65,200

For stainless steel add 'SS' to part no. For example 'PHSB03-NYLON-SS'

PHS-NYLON+STUD SERIES: STUDED FEMALE ROD ENDS (METRIC)



Housing: Steel 230M07Pb (Sizes M05 – M12 & 03 – 07)
Forged 080M46 (Sizes M14 – M16 & 08 – 10)
Zinc Plated and Clear Trivalent Passivate

Race: GR-Nylon, LV-3H

Ball: Bearing Steel 100Cr6, Hardened
and Electro-less Nickel Plated

Stud: Steel 230M07Pb, Zinc Plated and Clear
Trivalent Passivate

Specification: ELV and RoHS Compliant



Part No. Right Hand	Part No. Left Hand	Stud Size	Housing Thread	A	B	C	K	Static Load Rating (Newtons) Radial
PHS05S	PHSLM05S	M5X0.80	M5X0.80	10	10	8	9	1,200
PHS06-5S	PHSLM06-5S	M5X0.80	M6X1.00	12	12	10	10	1,200
PHS06S	PHSLM06S	M6X1.00	M6X1.00	12	12	10	10	1,930
PHS08-6S	PHSLM08-6S	M6X1.00	M8X1.25	16	16	14	13	1,930
PHS08S	PHSLM08S	M8X1.25	M8X1.25	16	16	14	13	3,140
PHS10-8S	PHSLM10-8S	M8X1.25	M10X1.50	20	20	18	17	3,140
PHS10S	PHSLM10S	M10X1.50	M10X1.50	20	20	18	17	4,240
PHS12-10S	PHSLM12-10S	M10X1.50	M12X1.75	24	24	21	19	4,240
PHS12S	PHSLM12S	M12X1.75	M12X1.75	24	24	21	19	5,720
PHS14-12S	PHSLM14-12S	M12X1.75	M14X2.00	28	28	25	22	5,720
PHS14S	PHSLM14S	M14X2.00	M14X2.00	28	28	25	22	7,200
PHS16-14S	PHSLM16-14S	M14X2.00	M16X2.00	29	29	24	24	7,200
PHS16S	PHSLM16S	M16X2.00	M16X2.00	29	29	24	24	9,000

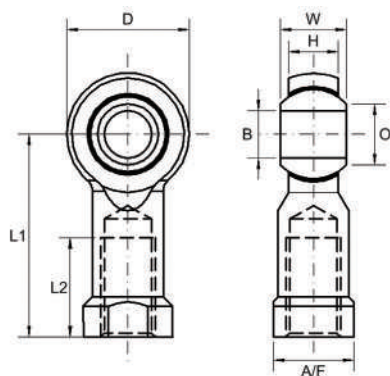
PHS-NYLON+STUD SERIES: STUDED FEMALE ROD ENDS (IMPERIAL)

Part No. Right Hand	Part No. Left Hand	Stud Size	Housing Thread	A	B	C	K	Static Load Rating (Newtons) Radial
PHSB03S	PHSBL03S	3/16 UNF	3/16 UNF	0.500	0.516	0.437	0.312	1,200
PHSB04-3S	PHSBL04-3S	3/16 UNF	1/4 UNF	0.562	0.485	0.500	0.375	1,200
PHSB04S	PHSBL04S	1/4 UNF	1/4 UNF	0.562	0.485	0.500	0.375	1,930
PHSB05-4S	PHSBL05-4S	1/4 UNF	5/16 UNF	0.687	0.547	0.594	0.437	1,930
PHSB05S	PHSBL05S	5/16 UNF	5/16 UNF	0.687	0.547	0.594	0.437	3,140
PHSB06-5S	PHSBL06-5S	5/16 UNF	3/8 UNF	0.906	0.562	0.812	0.500	3,140
PHSB06S	PHSBL06S	3/8 UNF	3/8 UNF	0.906	0.562	0.812	0.500	4,240
PHSB07-6S	PHSBL07-6S	3/8 UNF	7/16 UNF	1.125	0.843	1.000	0.625	4,240
PHSB07S	PHSBL07S	7/16 UNF	7/16 UNF	1.125	0.843	1.000	0.625	5,720
PHSB08-7S	PHSBL08-7S	7/16 UNF	1/2 UNF	1.125	0.875	1.000	0.625	5,720
PHSB08S	PHSBL08S	1/2 UNF	1/2 UNF	1.125	0.875	1.000	0.625	7,200
PHSB10-8S	PHSBL10-8S	1/2 UNF	5/8 UNF	1.125	1.000	1.000	0.750	7,200
PHSB10S	PHSBL10S	5/8 UNF	5/8 UNF	1.125	1.000	1.000	0.750	9,000

For stainless steel add 'SS' to part no. For example 'PHS05-NYLON+STUD SS'



FEMALE ROD ENDS



PHS-PU SERIES

Description:

FH-Series is our 3-piece unique internationally patented range of female rod ends, incorporating a polyurethane bearing race that provides ultra smooth operation. A nitrotec surface protected ball with a PTFE lubricant provide superior shock load and extended wear properties, combined with excellent chemical and corrosion resistance. The unique innovative captive body design prevents detachment through excessive axial loads. For optimum performance, ensure that the rod end is mounted with the moulded lettering facing away from the direction of pull.

Material Specifications:

Housing: Steel 230M07PB zinc plated and clear trivalent passivate and stainless steel 303C. Race: Polyurethane. Ball: 230M07PB nitrotec finish and stainless steel 440C. Stud: Steel 230M07PB zinc plated and clear trivalent passivate and stainless steel 303C. Lubricant: Uniflor oil.

Features:

Metric & imperial sizes
Ultra low friction
High shock loads
Extended wear life
No maintenance
Studded option
Safety features

Possible Applications:

Metric & imperial sizes
Ultra low friction
High shock loads
Extended wear life
No maintenance
Studded option
Safety features

Temperature Range:

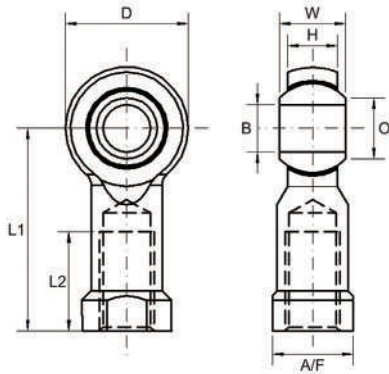
-30°C to +170°C

Specification:

ELV & RoHS compliant



PHS-PU SERIES: MAINTENANCE FREE ROD ENDS WITH FEMALE THREAD (METRIC)



Housing: Steel 230M07Pb, Zinc Plated and Clear Trivalent Passivate

Race: Polyurethane

Ball: Steel 230M07Pb – Nitrotec Surface Protection

Lubricant: Uniflor Oil

Specification: ELV and RoHS Compliant



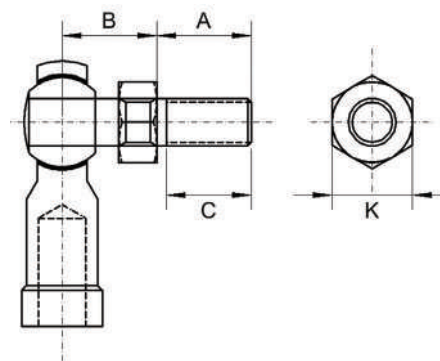
Part No. Right Hand	Part No. Left Hand	Bore Size	Thread	W	H	D	L1	L2	O	Static Load Rating (Newtons) Radial
PHS06	PHSL06	6	M6X1.00	9	6.75	20	30	14.0	8.90	9,506
PHS08	PHSL08	8	M8X1.25	12	9.00	24	36	17.0	10.35	17,652
PHS08C	PHSL08C	8	M8X1.00	12	9.00	24	36	17.0	10.35	17,652
PHS10	PHSL10	10	M10X1.50	14	10.50	28	43	21.0	12.85	21,575
PHS10C	PHSL10C	10	M10X1.25	14	10.50	28	43	21.0	12.85	21,575
PHS12	PHSL12	12	M12X1.75	16	12.00	32	50	25.0	15.46	25,890
PHS12C	PHSL12C	12	M12X1.25	16	12.00	32	50	25.0	15.46	25,890

PHS-PU SERIES: MAINTENANCE FREE ROD ENDS WITH FEMALE THREAD (IMPERIAL)

Part No. Right Hand	Part No. Left Hand	Bore Size	Thread	W	H	D	L1	L2	O	Static Load Rating (Newtons) Radial
PHSB04	PHSBL04	1/4	1/4 UNF	0.354	0.266	0.787	1.181	0.551	0.350	9,806
PHSB04F	PHSBL04F	1/4	1/4 BSF	0.354	0.266	0.787	1.181	0.551	0.350	9,806
PHSB05	PHSBL05	5/16	5/16 UNF	0.472	0.354	0.945	1.417	0.670	0.406	17,652
PHSB05F	PHSBL05F	5/16	5/16 BSF	0.472	0.354	0.945	1.417	0.670	0.406	17,652
PHSB06	PHSBL06	3/8	3/8 UNF	0.551	0.413	1.102	1.693	0.827	0.508	21,575
PHSB06F	PHSBL06F	3/8	3/8 BSF	0.551	0.413	1.102	1.693	0.827	0.508	21,575
PHSB07	PHSBL07	7/16	7/16 UNF	0.561	0.440	1.200	1.810	0.905	0.585	23,540
PHSB07F	PHSBL07F	7/16	7/16 BSF	0.561	0.440	1.200	1.810	0.905	0.585	23,540
PHSB08	PHSBL08	1/2	1/2 UNF	0.623	0.472	1.250	1.968	0.984	0.700	25,890
PHSB08F	PHSBL08F	1/2	1/2 BSF	0.623	0.472	1.250	1.968	0.984	0.700	25,890
PHSB10	PHSBL10	5/8	5/8 UNF	0.750	0.562	1.503	2.520	1.300	0.811	34,520
PHSB10F	PHSBL10F	5/8	5/8 BSF	0.750	0.562	1.503	2.520	1.300	0.811	34,520
PHSB12	PHSBL12	3/4	3/4 UNF	0.875	0.687	1.750	2.875	1.575	0.978	43,150
PHSB12F	PHSBL12F	3/4	3/4 BSF	0.875	0.687	1.750	2.875	1.575	0.978	43,150

For stainless steel add 'SS' to part no. For example 'PHS06-PU-SS'

PHS-PU+STUD SERIES: MAINTENANCE FREE ROD ENDS WITH FEMALE THREAD (METRIC)



Housing: Steel 230M07Pb, Zinc Plated and Clear Trivalent Passivate

Race: Polyurethane

Ball: Steel 230M07Pb – Nitrotec Surface Protection

Lubricant: Uniflor Oil

Stud: Steel 230M07Pb, Zinc Plated and Clear Trivalent Passivate

Specification: ELV and RoHS Compliant



Part No. Right Hand	Part No. Left Hand	Stud Size	Housing Thread	A	B	C	K	Static Load Rating (Newtons) Radial
PHS06S	PHSL06S	M6X1.00	M6X1.00	12.5	11.0	10.5	8	1,930
PHS08S	PHSL08S	M8X1.25	M8X1.25	16.5	13.0	14.5	11	3,190
PHS08/1S	PHSL08/1S	M8X1.25	M6X1.00	16.5	13.0	14.5	9	3,190
PHS08/2S	PHSL08/2S	M8X1.25	M10X1.50	16.5	13.0	14.5	9	3,190
PHS10S	PHSL10S	M10X1.50	M10X1.50	20.0	16.0	18.0	13	4,240
PHS10CS	PHSL10CS	M10X1.50	M10X1.25	20.0	16.0	18.0	13	4,240
PHS10/1S	PHSL10/1S	M10X1.50	M10X1.50	28.1	15.3	13.5*	13	4,240
PHS10/2S	PHSL10/2S	M10X1.50	M10X1.50	23.0	16.0	20.0	11	4,240
PHS12S	PHSL12S	M12X1.75	M12X1.75	20.0	13.0	18.0	16	5,720

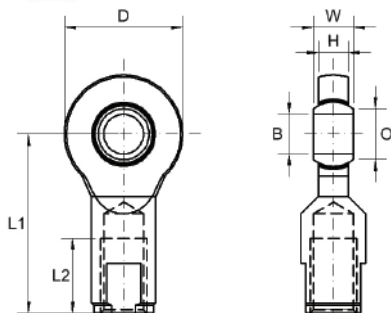
PHS-PU+STUD SERIES: MAINTENANCE FREE ROD ENDS WITH FEMALE THREAD (IMPERIAL)

Part No. Right Hand	Part No. Left Hand	Stud Size	Housing Thread	A	B	C	K	Static Load Rating (Newtons) Radial
PHSB04S	PHSBL04S	1/4 UNF	1/4 UNF	0.492	0.433	0.412	5/16	1,930
PHSB04FS	PHSBL04FS	1/4 UNF	1/4 BSF	0.492	0.433	0.412	5/16	1,930
PHSB05S	PHSBL05S	5/16 UNF	5/16 UNF	0.650	0.512	0.570	7/16	3,190
PHSB05FS	PHSBL05FS	5/16 UNF	5/16 BSF	0.650	0.512	0.570	7/16	3,190
PHSB06S	PHSBL06S	3/8 UNF	3/8 UNF	0.787	0.630	0.707	1/2	4,240
PHSB06FS	PHSBL06FS	3/8 UNF	3/8 BSF	0.787	0.630	0.707	1/2	4,240
PHSB07S	PHSBL07S	7/16 UNF	7/16 UNF	0.945	0.750	0.865	1/2	5,720
PHSB07FS	PHSBL07FS	7/16 UNF	7/16 BSF	0.945	0.750	0.865	1/2	5,720
PHSB08S	PHSBL08S	1/2 UNF	1/2 UNF	1.100	0.866	0.945	9/16	7,200
PHSB08FS	PHSBL08FS	1/2 UNF	1/2 BSF	1.100	0.866	0.945	9/16	7,200

For stainless steel add 'SS' to part no. For example 'PHS06S-PU-SS'



FEMALE ROD ENDS



RF SERIES

Description:

RF-Series is our 3-piece thin series range of female rod ends that have been specifically designed for use with other linkage components such as clevises etc. The RM-Series design allows the rod ends head and ball to neatly slide inside of its mating clevises fork end, ideal for fitting to pre-assembled linkages. Metric and imperial bore and thread sizes are available. Standard product is supplied with a frictional load on the bearing ball, recommended for applications where misalignment may arise in an assembly.

Material Specifications:

Housing: Steel 230M07Pb, zinc plated and clear trivalent passivate and stainless steel 303L. Race: Nylon 66 glass filled with molybdenum disulphide. Ball: Bearing steel 100Cr6, hardened and electroless nickel plated and stainless steel 440C. Stud: Steel 230M07PB zinc plated and clear trivalent passivate and stainless steel 303L.

Features

Metric thread & bore sizes
Friction load applications
High shock loads
Thin section
No maintenance
Studded option

Possible Applications

Light to medium
industrial/mechanical
Construction equipment
Agricultural equipment
Recreational vehicles

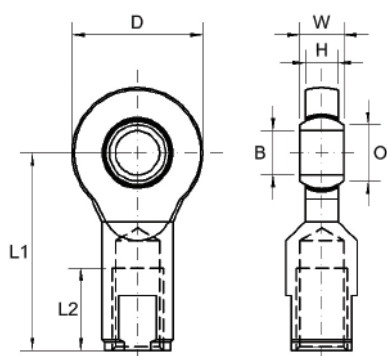
Temperature Range

-30 °C to +120 °C

Specification

ELV & RoHS compliant

RF SERIES: MAINTENANCE FREE ROD ENDS WITH FEMALE THREAD (METRIC)



Housing: Steel 230M07Pb, Zinc Plated and Clear Trivalent Passivate

Race: Nylon 66

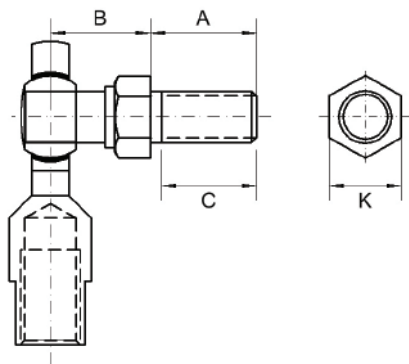
Ball: Bearing Steel 100Cr6, Hardened and Electro-less Nickel Plated

Specification: ELV and RoHS Compliant



Part No. Right Hand	Part No. Left Hand	Bore Size	Thread	W	H	D	L1	L2	O	Static Load Rating (Newtons) Radial
RMF6	RMF6LH	6	M6X1.00	6	4.0	21	30	15	8.00	7,500
RMF6/2	RMF6/2LH	6	M8X1.25	6	4.0	20.7	30	15	8.00	7,500
RMF8	RMF8LH	8	M8X1.25	8	6.0	24	36	15	10.25	12,850
RMF8C	RMF8CLH	8	M8X1.00	8	6.0	24	36	15	10.25	12,850
RMF8/2	RMF8/2LH	8	M8X1.25	8	6.0	24	36	15	10.25	12,850
RMF8/3	RMF8/3LH	8	M10X1.50	8	6.0	24	36	15	10.25	12,850
RMF8/4	RMF8/4LH	8	M6X1.00	8	6.0	24	36	15	10.25	12,850
RMF8/6	RMF8/6LH	8	M10X1.50	8	6.0	24	56	35	10.25	12,850
RMF8/7	RMF8/7LH	8	M8X1.25	8	5.2	24	46	26	10.25	12,850
RMF10	RMF10LH	10	M10X1.50	9	7.0	29	43	19	13.23	17,125
RMF10C	RMF10CLH	10	M10X1.25	9	7.0	29	43	19	13.23	17,125
RMF10/4	RMF0/4LH	12	M10X1.50	9	7.0	29	43	19	13.23	17,125

RFS SERIES: MAINTENANCE FREE ROD ENDS WITH FEMALE THREAD (METRIC)



Housing: Steel 230M07Pb, Zinc Plated and Clear Trivalent Passivate

Race: Nylon 66

Ball: Bearing Steel 100Cr6, Case Hardened and Electro-less Nickel Plated

Stud: Steel 230M07Pb, Zinc Plated and Clear Trivalent Passivate

Specification: ELV and RoHS Compliant



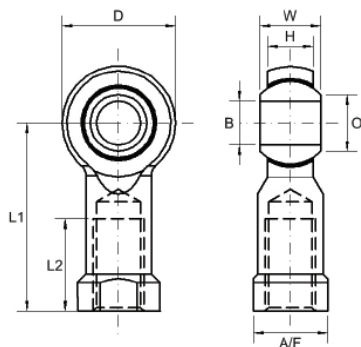
Part No. Right Hand	Part No. Left Hand	Stud Size	Housing Thread	A	B	C	K	Static Load Rating (Newtons) Radial
RMFS6	RMFS6LH	M6X1.00	M6X1.00	12.5	11.0	8.00	9	1,930
RMFS6/1	RMFS6/1LH	M6X1.00	1/4 UNF	0.492"	0.453"	0.470"	5/16"	1,930
RMFS6/2	RMFS6/2LH	M6X1.00	M6X1.00	12.5	11.0	11.00	8	1,930
RMFS8	RMFS8LH	M8X1.25	M8X1.25	16.5	13.0	10.00	10	3,190
RMFS8C	RMFS8CLH	M8X1.25	M8X1.00	16.5	13.0	10.00	10	3,190
RMFS8/1	RMFS8/1LH	M8X1.25	M8X1.25	19.8	10.0	18.00	11	3,190
RMFS8/2	RMFS8/2LH	M8X1.25	M6X1.00	15.2	10.2	13.25	11	3,190
RMFS8/4	RMFS8/4LH	M8X1.25	M8X1.25	19.8	10.0	14.20	11	3,190
RMFS8/5	RMFS8/5LH	M8X1.25	M8X1.25	16.5	13.0	15.00	11	3,190
RMFS10	RMFS10LH	M10X1.50	M10X1.50	20.0	13.0	18.00	13	4,240
RMFS10C	RMFS10CLH	M10X1.50	M10X1.25	20.0	13.0	18.00	13	4,240
RMFS10/2	RMFS10/2LH	M10X1.50	M10X1.50	20.0	16.0	18.00	13	4,240
RMFS10/3	RMFS10/3LH	M10X1.50	M10X1.25	20.0	16.0	18.00	13	4,240



For stainless steel add 'SS' to part no. For example 'RMF6 SS' and RMF6S SS



FEMALE ROD ENDS



PHS-BRONZE SERIES

Description:

PHS-Bronze Series is our 4-piece standard range of maintenance required general purpose female rod ends suitable for medium heavy industrial/mechanical load applications requiring low friction and good wear resistance, available in both metric and imperial bore and thread sizes. An oil impregnated sintered bronze race is also available for some sizes or if quantity justifies production, suitable for high precision motion transfer applications and extended wear life.

Material Specifications:

Housing: Steel 230M07PB and forged 080M46, zinc plated and clear trivalent passivate Race: Bronze SAE660. Ball: Bearing steel 100Cr6, hardened and electroless nickel plated. Stud: Steel 230M07PB zinc plated and clear trivalent passivate.

Features

Metric & imperial thread & bore sizes
Low friction
Self-lubricating option
Extended wear life
Maintenance required
Studded option

Possible Applications

Medium/heavy industrial/mechanical applications
Construction equipment
Agricultural equipment
Recreational vehicles
Precision equipment

Temperature Range

-34 °C to +149 °C

Specification

ELV & RoHS compliant

Interchange table

Dunlop	Rose	Tuthill	Alinabal	SKF	Asahi	IKO	Fluro
PHS-BRONZE (metric)	MF	FB-M	MVF-M	SIKAC-M	JAF	PHS	GIS
PHSB-BRONZE (imperial)	RF-U	FB	VF-G	-	-	PHSB	-

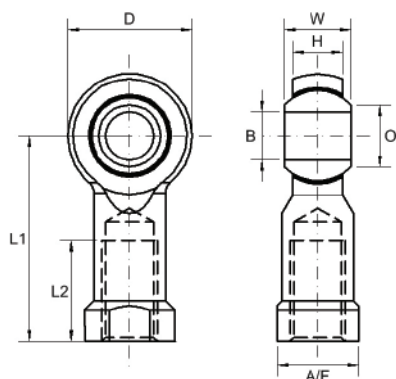
Note: Manufacturers part numbers are used for descriptive purposes only and may not be direct equivalent products.



An oil impregnated Sintered Bronze race is also available for many sizes or if quantity justifies production. This will offer extended life without the need for routine maintenance i.e. maintenance free, add suffix "SPB" to part number for example PHS10-BRONZE SPB. Please enquire for availability

For stainless steel add 'SS' to part no. For example 'PHS03-BRONZE-SS'

PHS-BRONZE SERIES: MAINTENANCE REQUIRED ROD ENDS WITH FEMALE THREAD (METRIC)



Housing: Steel 230M07Pb (Sizes M03 – M12),
Forged 080M46 (Sizes M14 – M25),
Zinc Plated and Clear Trivalent Passivate

Race: Bronze SAE660

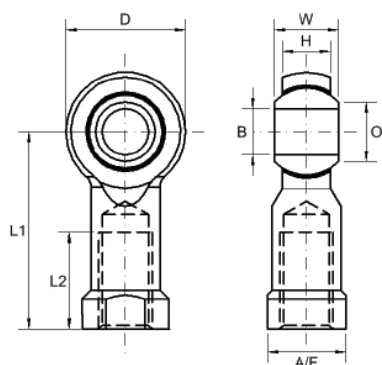
Ball: Bearing Steel 100Cr6, Hardened
Electro-less Nickel Plated

Specification: ELV and RoHS Compliant



Part No. Right Hand	Part No. Left Hand	Bore Size	Thread	W	H	D	L1	L2	O	AF	Static Load Rating Radial (Newtons)
PHS03	PHSL03	3	M3X0.50	6	4.50	12	21	10	5.20	6.5	3,648
PHS04	PHSL04	4	M4X0.70	7	5.00	14	24	12	6.30	8.0	4,960
PHS05	PHSL05	5	M5X0.80	8	6.00	16	27	14	7.50	9.0	6,360
PHS06	PHSL06	6	M6X1.00	9	6.75	18	30	14	9.30	11.0	6,820
PHS08	PHSL08	8	M8X1.25	12	9.00	22	36	17	10.40	14.0	10,450
PHS10	PHSL10	10	M10X1.50	14	10.50	26	43	21	12.90	17.0	14,000
PHS12	PHSL12	12	M12X1.75	16	12.00	30	50	24	15.40	19.0	18,745
PHS14	PHSL14	14	M14X2.00	19	13.50	34	57	27	16.80	22.0	22,125
PHS16	PHSL16	16	M16X2.00	21	15.00	38	64	33	19.30	22.0	23,700
PHS20	PHSL20	20	M20X2.50	25	18.00	50	77	40	24.50	32.0	28,640
PHS22	PHSL22	22	M22X1.50	28	20.00	54	84	43	25.80	32.0	34,200
PHS25	PHSL25	25	M24X2.00	31	22.00	60	94	48	29.60	36.0	47,750

PHS-BRONZE SERIES: MAINTENANCE REQUIRED ROD ENDS WITH FEMALE THREAD (IMPERIAL)



Housing: Steel 230M07Pb (Sizes 03 – 07),
Forged 080M46 (Sizes 08 – 16),
Zinc Plated and Clear Trivalent Passivate

Race: Bronze SAE660

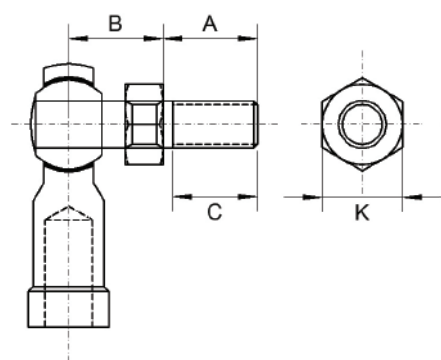
Ball: Bearing Steel 100Cr6, Hardened
and Electro-less Nickel Plated

Specification: ELV and RoHS Compliant



Part No. Right Hand	Part No. Left Hand	Bore Size	Thread	W	H	D	L1	L2	O	AF	Static Load Rating Radial (Newtons)
PHSB03	PHSBL03	3/16	10-32	0.312	0.250	0.625	1.062	0.562	0.306	0.312	6,360
PHSB04	PHSBL04	1/4	1/4 UNF	0.375	0.281	0.750	1.312	0.750	0.354	0.375	6,820
PHSB05	PHSBL05	5/16	5/16 UNF	0.437	0.344	0.875	1.375	0.750	0.447	0.437	10,450
PHSB06	PHSBL06	3/8	3/8 UNF	0.500	0.406	1.000	1.625	0.932	0.516	0.562	13,640
PHSB07	PHSBL07	7/16	7/16 UNF	0.562	0.437	1.125	1.812	1.062	0.586	0.625	16,360
PHSB08	PHSBL08	1/2	1/2 UNF	0.625	0.500	1.312	2.125	1.187	0.700	0.750	19,545
PHSB10	PHSBL10	5/8	5/8 UNF	0.750	0.562	1.500	2.500	1.500	0.811	0.875	22,500
PHSB12	PHSBL12	3/4	3/4 UNF	0.875	0.687	1.750	2.875	1.562	0.978	1.000	28,640
PHSB16	PHSBL16	1	1" UNF	1.375	1.000	2.500	4.125	2.125	1.486	1.500	47,500

PHS-BRONZE+STUD SERIES: MAINTENANCE FREE ROD ENDS WITH FEMALE THREAD (METRIC)



Housing: Steel 230M07Pb (Sizes M05 – M12)
Forged 080M46 (Sizes M14 – M16)
Zinc Plated and Clear Trivalent Passivate

Race: Bronze SAE660

Ball: Bearing Steel 100Cr6, Hardened and Electro-less Nickel Plated

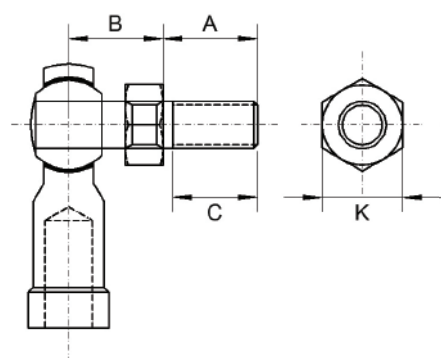
Stud: Steel 230M07Pb, Zinc Plated and Clear Trivalent Passivate

Specification: ELV and RoHS Compliant



Part No. Right Hand	Part No. Left Hand	Stud Size	Housing Thread	A	B	C	K	Static Load Rating (Newtons) Radial
PHS05S	PHSL05S	M5X0.80	M5X0.80	10	10	8	9	1,200
PHS06S	PHSL06S	M6X1.00	M6X1.00	12	12	10	10	1,930
PHS08S	PHSL08S	M8X1.25	M8X1.25	16	16	14	13	3,190
PHS10S	PHSL10S	M10X1.50	M10X1.50	20	20	18	17	4,240
PHS12S	PHSL12S	M12X1.75	M12X1.75	24	24	21	19	5,720
PHS14S	PHSL14S	M14X2.00	M14X2.00	28	28	25	22	7,200
PHS16S	PHSL16S	M16X2.00	M16X2.00	29	29	24	24	9,000

PHS-BRONZE+STUD SERIES: STUDED FEMALE ROD ENDS (IMPERIAL)



Housing: Steel 230M07Pb (Sizes 03 – 07)
Forged 080M46 (Sizes 08 – 10)
Zinc Plated and Clear Trivalent Passivate

Race: Bronze SAE660

Ball: Bearing Steel 100Cr6, Hardened and Electro-less Nickel Plated

Stud: Steel 230M07Pb, Zinc Plated and Clear Trivalent Passivate

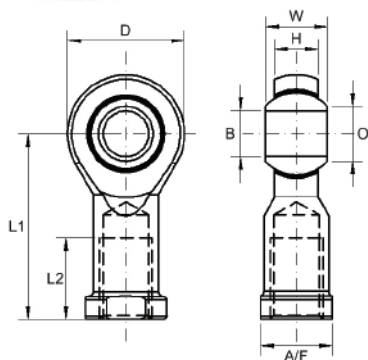
Specification: ELV and RoHS Compliant



Part No. Right Hand	Part No. Left Hand	Stud Size	Housing Thread	A	B	C	K	Static Load Rating (Newtons) Radial
PHSB03S	PHSBL03S	3/16 UNF	3/16 UNF	0.500	0.516	0.437	0.312	1,200
PHSB04S	PHSBL04S	1/4 UNF	1/4 UNF	0.562	0.485	0.500	0.375	1,930
PHSB05S	PHSBL05S	5/16 UNF	5/16 UNF	0.687	0.547	0.594	0.437	3,190
PHSB06S	PHSBL06S	3/8 UNF	3/8 UNF	0.906	0.562	0.812	0.500	4,240
PHSB07S	PHSBL07S	7/16 UNF	7/16 UNF	1.125	0.843	1.000	0.625	5,720
PHSB08S	PHSBL08S	1/2 UNF	1/2 UNF	1.125	0.875	1.000	0.625	7,200
PHSB10S	PHSBL10S	5/8 UNF	5/8 UNF	1.125	1.000	1.000	0.750	9,000

B.S.F. threads are available from size FB-04S, (FBL-04S), and above by adding suffix "F" to the part number e.g. PHSB08+STUD . Stainless steel, Grade 303L, rod ends are available by adding suffix "SS" to the part number e.g. PHS-B10+STUD-SS.

For stainless steel add 'SS' to part no. For example 'FB-M05S SS'

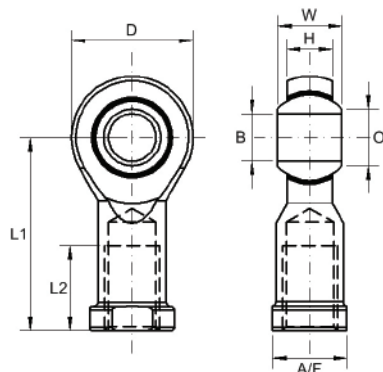


ELV & RoHS compliant

Note: Manufacturers part numbers are used for descriptive purposes only and may not be direct equivalent products.



PHS-PTFE SERIES: MAINTENANCE FREE ROD ENDS WITH FEMALE THREAD (METRIC)



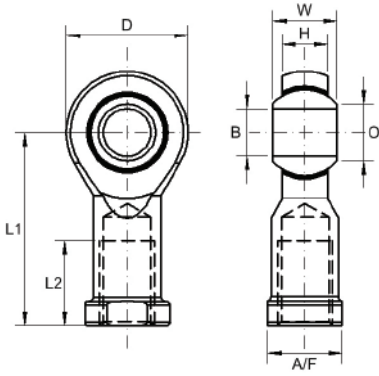
- Housing:** Steel 230M07Pb (Sizes M05 – M12)
Forged 080M46 (Sizes M14 – M25)
Zinc Plated and Clear Trivalent Passivate
- Inner Ring:** Steel 070M20, Zinc Plated and Clear Trivalent Passivate
- Ball:** Bearing Steel 100Cr6, Hardened and Electro-less Nickel Plated
- Liner:** High strength PTFE composite
- Specification:** ELV and RoHS Compliant



Part No. Right Hand	Part No. Left Hand	Bore Size	Thread	W	H	D	L1	L2	O	AF	Static Load Rating (Newtons) Radial
PHS05	PHSL05	5	M8X0.80	8	6.00	18	27	10	7.70	9	8000
PHS06-5	PHSL06-5	5	M6X1.00	9	6.75	20	30	12	8.90	11	8900
PHS06	PHSL06	6	M6X1.00	9	6.75	20	30	12	8.90	11	8900
PHS08-6	PHSL08-6	6	M8X1.25	12	9.00	24	36	16	10.40	13	14,100
PHS08-6C	PHSL08-6C	6	M8X1.00	12	9.00	24	36	16	10.40	13	14,100
PHS08	PHSL08	8	M8X1.25	12	9.00	24	36	16	10.40	13	14,100
PHS08C	PHSL08C	8	M8X1.00	12	9.00	24	36	16	10.40	13	14,100
PHS10-8	PHSL10-8	8	M10X1.50	14	10.50	28	43	20	12.90	17	19,300
PHS10-8C	PHSL10-8C	8	M10X1.25	14	10.50	28	43	20	12.90	17	19,300
PHS10	PHSL10	10	M10X1.50	14	10.50	28	43	20	12.90	17	19,300
PHS10C	PHSL10C	10	M10X1.25	14	10.50	28	43	20	12.90	17	19,300
PHS12-10	PHSL12-10	10	M12X1.75	16	12.00	32	50	22	15.40	19	23,600
PHS12-10C	PHSL12-10C	10	M12X1.25	16	12.00	32	50	22	15.40	19	23,600
PHS12	PHSL12	12	M12X1.75	16	12.00	32	50	22	15.40	19	23,600
PHS12C	PHSL12C	12	M12X1.25	16	12.00	32	50	22	15.40	19	23,600
PHS14-12	PHSL14-12	12	M14X2.00	19	13.50	36	57	25	16.80	22	29,200
PHS14-12C	PHSL14-12C	12	M14X1.50	19	13.50	36	57	25	16.80	22	29,200
PHS14	PHSL14	14	M14X2.00	19	13.50	36	57	25	16.80	22	29,200
PHS14C	PHSL14C	14	M14X1.50	19	13.50	36	57	25	16.80	22	29,200
PHS16-14	PHSL16-14	14	M16X2.00	21	15.00	42	64	28	19.30	22	32,100
PHS16-14C	PHSL16-14C	14	M16X1.50	21	15.00	42	64	28	19.30	22	32,100
PHS16	PHSL16	16	M16X2.00	21	15.00	42	64	28	19.30	22	32,100
PHS16C	PHSL16C	16	M16X1.50	21	15.00	42	64	28	19.30	22	32,100
PHS18-16C	PHSL18-16C	16	M18X1.50	23	16.50	46	71	32	21.80	27	38,400
PHS18C	PHSL18C	18	M18X1.50	23	16.50	46	71	32	21.80	27	38,400
PHS20-18	PHSL20-18	18	M20X2.50	25	18.00	50	77	33	24.30	32	45,000
PHS20-18C	PHSL20-18 C	18	M20X1.50	25	18.00	50	77	33	24.30	32	45,000
PHS20	PHSL20	20	M20X2.50	25	18.00	50	77	33	24.30	32	45,000
PHS20C	PHSL20C	20	M20X1.50	25	18.00	50	77	33	24.30	32	45,000
PHS22-20	PHSL22-20	20	M22X1.50	28	20.00	54	84	37	25.80	32	52,750
PHS22	PHSL22	22	M22X1.50	28	20.00	54	84	37	25.80	32	52,750
PHS25-20	PHSL25-20	20	M24X2.00	31	22.00	60	94	42	29.60	36	62,000
PHS25	PHSL25	25	M24X2.00	31	22.00	60	94	42	29.60	36	62,000

For stainless steel add 'SS' to part no. For example 'PHS05-PTFE-SS'

PHS-PTFE SERIES: MAINTENANCE FREE ROD ENDS WITH FEMALE THREAD (IMPERIAL)



Housing: Steel 230M07Pb (Sizes 04 - 07)
Forged 080M46 (Sizes 08 - 12)
Zinc Plated and Clear Trivalent Passivate

Inner Ring: Steel 070M20, Zinc Plated and Clear
Trivalent Passivate

Ball: Bearing Steel 100Cr6, Hardened
and Electro-less Nickel Plated

Liner: High Strength PTFE Composite

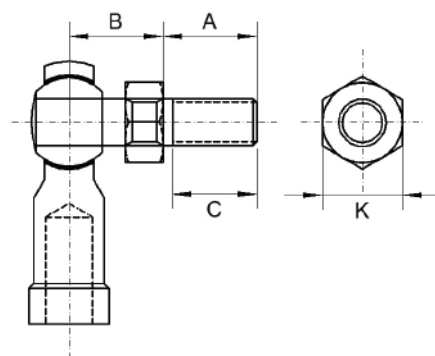
Specification: ELV and RoHS Compliant



Part No. Right Hand	Part No. Left Hand	Bore Size	Thread	W	H	D	L1	L2	O	AF	Static Load Rating (Newtons) Radial
PHSB04	PHSBL04	1/4	1/4 UNF	0.375	0.281	0.812	1.312	0.750	8.40	0.375	8,500
PHSB04F	PHSBL04F	1/4	1/4 BSF	0.375	0.281	0.812	1.312	0.750	8.40	0.375	8,500
PHSB05-4	PHSBL05-4	1/4	5/16 UNF	0.437	0.344	1.000	1.375	0.750	11.35	0.437	14,100
PHSB05-4F	PHSBL05-4F	1/4	5/16 BSF	0.437	0.344	1.000	1.375	0.750	11.35	0.437	14,100
PHSB05	PHSBL05	5/16	5/16 UNF	0.437	0.344	1.000	1.375	0.750	11.35	0.437	14,100
PHSB05F	PHSBL05F	5/16	5/16 BSF	0.437	0.344	1.000	1.375	0.750	11.35	0.437	14,100
PHSB06-5	PHSBL06-5	5/16	3/8 UNF	0.500	0.406	1.125	1.625	0.937	13.10	0.562	19,300
PHSB06-5F	PHSBL06-5F	5/16	3/8BSF	0.500	0.406	1.125	1.625	0.937	13.10	0.562	19,300
PHSB06	PHSBL06	3/8	3/8 UNF	0.500	0.406	1.125	1.625	0.937	13.10	0.562	19,300
PHSB06F	PHSBL06F	3/8	3/8 BSF	0.500	0.406	1.125	1.625	0.937	13.10	0.562	19,300
PHSB07-6	FSL-07-6	3/8	7/16 UNF	0.562	0.437	1.250	1.812	1.062	14.90	0.625	21,000
PHSB07-6F	FSL-07-6F	3/8	7/16 BSF	0.562	0.437	1.250	1.812	1.062	14.90	0.625	21,000
PHSB07	FSL-07	7/16	7/16 UNF	0.562	0.437	1.250	1.812	1.062	14.90	0.625	21,000
PHSB07F	FSL-07F	7/16	7/16 BSF	0.562	0.437	1.250	1.812	1.062	14.90	0.625	21,000
PHSB08-7	FSL-08-7	7/16	1/2 UNF	0.625	0.500	1.375	2.125	1.187	17.75	0.750	23,600
PHSB08-7F	FSL-08-7F	7/16	1/2 BSF	0.625	0.500	1.375	2.125	1.187	17.75	0.750	23,600
PHSB08	FSL-08	1/2	1/2 UNF	0.625	0.500	1.375	2.125	1.187	17.75	0.750	23,600
PHSB08F	FSL-08F	1/2	1/2 BSF	0.625	0.500	1.375	2.125	1.187	17.75	0.750	23,600
PHSB10-8F	FSL-10-8F	1/2	5/8 UNF	0.750	0.562	1.750	2.500	1.500	21.30	0.875	32,100
PHSB10-8F	FSL-10-8F	1/2	5/8 BSF	0.750	0.562	1.750	2.500	1.500	21.30	0.875	32,100
PHSB10	FSL-10	5/8	5/8 UNF	0.750	0.562	1.750	2.500	1.500	21.30	0.875	32,100
PHSB10F	FSL-10F	5/8	5/8 BSF	0.750	0.562	1.750	2.500	1.500	21.30	0.875	32,100
PHSB12-10	FSL-12-10	5/8	3/4 UNF	0.875	0.687	2.000	2.875	1.750	24.80	1.000	45,000
PHSB12-10F	FSL-12-10F	5/8	3/4 BSF	0.875	0.687	2.000	2.875	1.750	24.80	1.000	45,000
PHSB12	FSL-12	3/4	3/4 UNF	0.875	0.687	2.000	2.875	1.750	24.80	1.000	45,000
PHSB12F	FSL-12F	3/4	3/4 BSF	0.875	0.687	2.000	2.875	1.750	24.80	1.000	45,000

For stainless steel add 'SS' to part no. For example 'PHSB04-PTFE-SS'

PHS-PTFE+STUD SERIES: STUDED FEMALE ROD ENDS (METRIC)

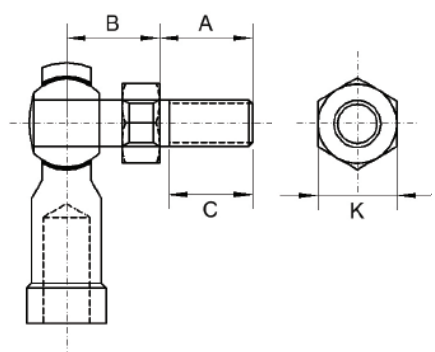


- Housing: Steel 230M07Pb (Sizes M05 – M12)
Forged 080M46 (Sizes M14 – M16)
Zinc Plated and Clear Trivalent Passivate
- Inner Ring: Steel 070M20, Zinc Plated and Clear Trivalent Passivate
- Ball: Bearing Steel 100Cr6, Hardened and Electro-less Nickel Plated
- Stud: Steel 230M07Pb, Zinc Plated and Clear Trivalent Passivate
- Liner: High Strength PTFE Composite
- Specification: ELV and RoHS Compliant



Part No. Right Hand	Part No. Left Hand	Stud Size	Housing Thread	A	B	C	K	Static Load Rating (Newtons) Radial
PHS05S	PHSL05S	M5X0.80	M5x0.80	10	10	8	9	1,200
PHS06S	PHSL06S	M6X1.00	M6X1.00	12	12	10	10	1,930
PHS08S	PHSL08S	M8X1.25	M8X1.25	16	16	14	13	3,190
PHS10S	PHSL10S	M10X1.50	M10X1.50	20	20	18	17	4,240
PHS12S	PHSL12S	M12X1.75	M12X1.75	24	24	21	19	5,720
PHS14S	PHSL14S	M14X2.00	M14X2.00	28	28	25	22	7,200
PHS16S	PHSL16S	M16X2.00	M16X2.00	29	29	24	24	9,000

PHS-PTFE+STUD SERIES: STUDED FEMALE ROD ENDS (IMPERIAL)



- Housing: Steel 230M07Pb (Sizes 04 - 07)
Forged 080M46 (Sizes 08 - 10)
Zinc Plated and Clear Trivalent Passiv.
- Inner Ring: Steel 070M20, Zinc Plated and Clear Trivalent Passivate
- Ball: Bearing Steel 100Cr6, Hardened and Electro-less Nickel Plated
- Stud: Steel 230M07Pb, Zinc Plated and Clear Trivalent Passivate
- Liner: High Strength PTFE Composite
- Specification: ELV and RoHS Compliant



Part No. Right Hand	Part No. Left Hand	Stud Size	Housing Thread	A	B	C	K	Static Load Rating (Newtons) Radial
PHSB04S	PHSBL04S	1/4 UNF	1/4 UNF	0.562	0.485	0.500	0.375	1,500
PHSB05S	PHSBL05S	5/16 UNF	5/16 UNF	0.687	0.547	0.594	0.437	3,190
PHSB06S	PHSBL06S	3/8 UNF	3/8 UNF	0.906	0.562	0.812	0.500	4,240
PHSB07S	PHSBL07S	7/16 UNF	7/16 UNF	1.125	0.843	1.000	0.625	5,720
PHSB08S	PHSBL08S	1/2 UNF	1/2 UNF	1.125	0.875	1.000	0.625	7,200
PHSB10S	PHSBL10S	5/8 UNF	5/8 UNF	1.125	1.000	1.000	0.750	9,000

For stainless steel add 'SS' to part no. For example 'PHS05-PTFE-SS'



FEMALE ROD ENDS

FX SERIES

Description:

FX series Rod Ends have been developed for use in General Engineering applications where medium to high loads are encountered. Within their load carrying capacity they will withstand shock loading and high frequency oscillation.

Material Specifications:

Housing: 817M 40, heat treated to 80/90 tons/in² tensile, Phosphated all over. Ball: 100Cr 6, heat treated, Phosphated all over.

Features

Metric and Imperial sizes available
Can be used in application involving shock loading and high frequency oscillation.

Possible Applications

Medium / heavy industrial/mechanical applications
Construction equipment
Agricultural equipment and motor sport.

Temperature Range

-40°C to +150°C

Specification

ELV & RoHS compliant

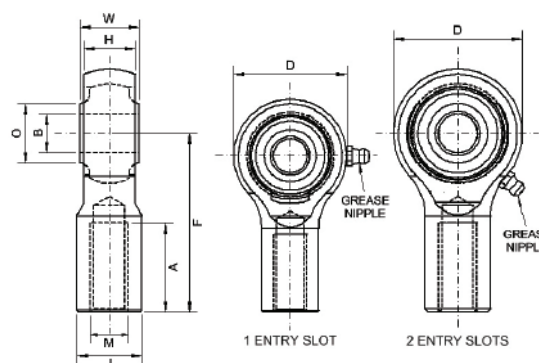


Interchange table

Dunlop	Rose	NMB
FX-M (metric)	RBJ-M	RBJ-M
FX (imperial)	RBJ	RBJ

Note: Manufacturers part numbers are used for descriptive purposes only and may not be direct equivalent products.

FX SERIES: MAINTENANCE REQUIRED ROD ENDS WITH FEMALE THREAD (METRIC)



Housing: Forged 817M40, Heat Treated to 80/90 tons/in² tensile and Phosphate all over

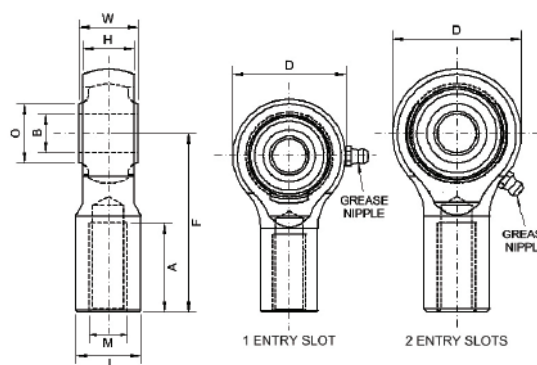
Ball: Bearing Steel 100Cr6, Heat Treated and Phosphate all over

Specification: ELV and RoHS Compliant



Part No. Right Hand	Part No. Left Hand	B	W	H	O	D	F	A	J	M	X	Static Load Rating (Newtons) Radial
FX-M06	FXL-M06	6	9,5	8,1	9,5	20,6	28,7	14,0	10,1	M6 x 1.00	22	11770
FX-M08C	FXL-M08C	8	11,0	9,5	11,0	23,8	33,2	17,0	11,1	M8 x 1.00	21	19610
FX-M08	FXL-M08	8	11,0	9,5	11,0	23,8	33,2	17,0	11,1	M8 x 1.25	21	19610
FX-M10C	FXL-M10C	10	14,2	12,2	14,2	31,0	41,2	21,0	15,2	M10 x 1.25	22	27460
FX-M10	FXL-M10	10	14,2	12,2	14,2	31,0	41,2	21,0	15,2	M10 x 1.50	22	27460
FX-M12CG	FXL-M12CG	12	19,0	16,2	19,0	41,2	54,2	28,0	20,3	M12 x 1.25	22	49030
FX-M12G	FXL-M12G	12	19,0	16,2	19,0	41,2	54,2	28,0	20,3	M12 x 1.75	22	49030
FX-M16CG	FXL-M16CG	16	22,2	19,0	22,2	49,2	66,7	34,0	25,4	M16 x 1.50	21	77470
FX-M16G	FXL-M16G	16	22,2	19,0	22,2	49,2	66,7	34,0	25,4	M16 x 2.00	21	77470
FX-M20CG	FXL-M20CG	20	22,2	20,6	25,4	54,0	79,2	44,0	28,5	M20 x 1.50	16	110810
FX-M20G	FXL-M20G	20	22,2	20,6	25,4	54,0	79,2	44,0	28,5	M20 x 2.50	16	110810

FX SERIES: MAINTENANCE REQUIRED ROD ENDS WITH FEMALE THREAD (IMPERIAL)



Housing: Forged 817M40, Heat Treated to 80/90 tons/in² tensile and Phosphate all over

Ball: Bearing Steel 100Cr6, Heat Treated and Phosphate all over

Specification: ELV and RoHS Compliant



Part No. Right Hand	Part No. Left Hand	B	W	H	O	D	F	A	J	M	X	Static Load Rating (Newtons) Radial
FX-04	FXL -04	.2500	.375	.320	.375	.812	1.125	.562	.400	1/4 UNF	22	11770
FX-05	FXL-05	.3125	.437	.375	.437	.937	1.312	.687	.437	5/16 UNF	21	19610
FX-05F	FXL-05F	.3125	.437	.375	.437	.937	1.312	.687	.437	5/16 BSF	21	19610
FX-06	FXL-06	.3750	.562	.480	.562	1.218	1.625	.875	.600	3/8 UNF	22	27460
FX-06F	FXL-06F	.3750	.562	.480	.562	1.218	1.625	.875	.600	3/8 BSF	22	27460
FX-08G	FXL-08G	.5000	.750	.640	.750	1.625	2.125	1.125	.800	1/2 UNF	22	49030
FX-08FG	FXL-08FG	.5000	.750	.640	.750	1.625	2.125	1.125	.800	1/2 BSF	22	49030
FX-10G	FXL-10G	.6250	.875	.750	.875	1.937	2.625	1.375	1.000	5/8 UNF	21	77470
FX-10FG	FXL-10FG	.6250	.875	.750	.875	1.937	2.625	1.375	1.000	5/8 BSF	21	77470
FX-12G	FXL-12G	.7500	.875	.812	1.000	2.125	3.125	1.750	1.125	3/4 UNF	16	110810
FX-12G	FXL-12FG	.7500	.875	.812	1.000	2.125	3.125	1.750	1.125	3/4 BSF	16	110810
FX-16G	FXL-16G	1.0000	1.375	1.0000	1.375	3.000	4.125	2.125	1.625	1 1/4 UNF	24	150250
FX-16FG	FXL-16FG	1.0000	1.375	1.0000	1.375	3.000	4.125	2.125	1.625	1 1/4 BSF	24	150250



'G' in part number denotes grease nipple fitted.



FEMALE ROD ENDS



AL SERIES

Description:

AL-Series is our 3-piece aluminium light weight range of self-lubricating general purpose female rod ends suitable for light industrial/mechanical load applications requiring low friction, with good wear resistance and available in metric bore and thread sizes. They have excellent moisture resistance and require no maintenance.

Material Specifications:

Housing: Aluminium A6026, black anodised. Race: GR-nylon LV-3H.

Ball: Bearing steel 100Cr6, hardened and electroless nickel plated.

Features

Metric bore & thread sizes
Low friction
Self-lubricating
Good wear resistance
Excellent moisture resistance
No maintenance
Light weight

Possible Applications

Light industrial/mechanical applications
Weight restricted applications
Linear movement sensors

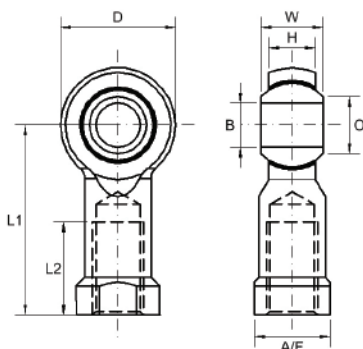
Temperature Range

-30°C to +170°C

Specification

ELV & RoHS compliant

AL SERIES: MAINTENANCE FREE ROD ENDS WITH FEMALE THREAD (METRIC)



Housing: Aluminium A6026, Black Anodised

Race: GR-Nylon, LV-3H

Ball: Bearing Steel 100Cr6, Hardened and Electro-less Nickel Plated

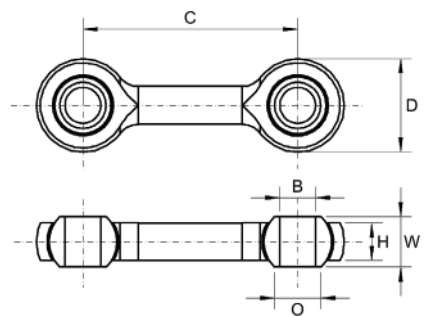
Specification: ELV and RoHS Compliant



Part No. Right Hand	Part No. Left Hand	Bore Size	Thread	W	H	D	L1	L2	O	AF	Static Load Rating Radial (Newtons)
AL-SA-116	AL-SA-116LH	3	M3X0.50	6	4.50	12	13.5	6.0	5.2	6.0	3,040
AL-SA-176	AL-SA-176LH	3	M3X0.50	6	4.50	12	13.5	6.0	5.2	7.0	3,040
AL-SA-106	AL-SA-106LH	3	M3X0.50	6	4.50	12	18.5	7.0	5.2	6.5	3,040
AL-SA-032	AL-SA-032LH	3	M3X0.50	6	4.50	12	18.5	7.0	5.2	6.5	3,040
AL-SA-033	AL-SA-033LH	3	M3X0.50	6	4.50	12	21.0	9.0	5.2	6.5	3,040
AL-SA-127	AL-SA-127LH	3	M4X0.70	6	4.50	12	13.5	6.0	5.2	7.0	3,040
AL-SA-091	AL-SA-091LH	3	M4X0.70	6	4.50	12	13.5	6.0	5.2	6.0	3,040
AL-SA-090	AL-SA-090LH	3	M4X0.70	6	4.50	12	19.5	6.0	5.2	6.0	3,040
AL-SA-009	AL-SA-009LH	5	M4X0.70	8	6.00	16	27.0	14.0	9.0	9.0	5,340
AL-SA-178	AL-SA-178LH	5	M4X0.70	8	6.00	16	16.2	8.0	9.0		5,340
AL-SA-135	AL-SA-135LH	5	M4X0.70	8	6.00	16	18.0	6.0	9.0	9.0	5,340
AL-SA-111	AL-SA-111LH	5	M4X0.70	8	6.00	16	25.0	11.5	9.0	9.0	5,340
AL-SA-177	AL-SA-177LH	5	M4X0.70	8	6.00	16	27.0	17.5	9.0	9.0	5,340
AL-SA-010	AL-SA-010LH	5	M5X0.80	8	6.00	16	27.0	14.0	9.0	9.0	5,340
AL-SA-019	AL-SA-019LH	5	M5X0.80	8	6.00	16	18.0	6.5	9.0	9.0	5,340
AL-SA-201	AL-SA-201LH	5	M6X1.00	8	6.00	16	27.0	13.5	9.0	9.0	5,340
AL-SA-080		6	M6X1.00	9	6.75	18	30.0	13.5	9.3	11.0	7,720
AL-SA-081		6	M6X1.00	9	6.75	18	30.0	13.5	9.3	11.0	7,720
AL-SA-082	AL-SA-082LH	8	M8X1.25	12	9.00	22	36.0	16.5	10.4	14.0	7,720



MALE ROD ENDS



DB SERIES

Description:

DB-Series is our 3-piece 'dog bone' range of rod ends primarily based on our MP-Series with regards to function and structure. A wide range of preset centre distances are available. Suitable for light to medium industrial/mechanical load applications requiring low friction, with good wear resistance and available in both metric and imperial bore sizes. They have excellent moisture resistance and require no maintenance.

Material Specifications:

Housing: Steel 230M07PB zinc plated and clear trivalent passivate.

Race: GR-nylon LV-3H. Ball: Bearing steel 100Cr6, hardened and electroless nickel plated.

Features:

Metric & imperial thread & bore sizes
Low friction
Self-lubricating
Good wear resistance
Excellent moisture resistance
No maintenance

Possible Applications:

Light to medium/heavy industrial/mechanical applications
Construction equipment
Agricultural equipment
Recreational vehicles

Temperature Range:

-30°C to +170°C

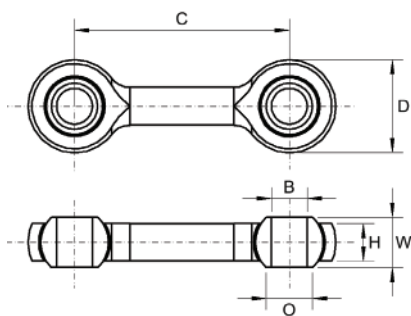
Specification:

ELV & RoHS compliant



MALE ROD ENDS

DB SERIES: MAINTENANCE FREE DOG BONES (IMPERIAL)



Housing: Steel 230M07Pb, Zinc Plated and Clear Trivalent Passivate

Race: GR-Nylon, LV-3H

Ball: Bearing Steel 100Cr6, Hardened and Electro-less Nickel Plated



Part No.	Bore Size	C	W	H	D	O	Liner	Static Load Rating (Newtons) Radial
DB-SA-076	5/16	60.0	0.437	0.344	0.875	0.447	GR-NYLON	6,880
DB-SA-158	5/16	75.0	0.437	0.344	0.875	0.447	GR-NYLON	12,010
DB-SA-067	5/16	80.0	0.437	0.344	0.875	0.447	GR-NYLON	12,010
DB-SA-128	5/16	82.5	0.437	0.344	0.875	0.447	GR-NYLON	12,010
DB-SA-162	3/8	50.0	0.500	0.406	1.000	0.516	GR-NYLON	12,830
DB-SA-156	3/8	60.0	0.500	0.406	1.000	0.516	GR-NYLON	12,830
DB-SA-205	3/8	60.0	0.500	0.415	1.000	0.516	SINTERED BRONZE	13,640
DB-SA-159	3/8	65.0	0.500	0.406	1.000	0.516	GR-NYLON	16,900
DB-SA-195	3/8	70.0	0.500	0.406	1.000	0.516	GR-NYLON	16,900
DB-SA-206	3/8	85.0	0.500	0.406	1.000	0.516	GR-NYLON	16,900
DB-SA-155	3/8	100.0	0.500	0.406	1.000	0.516	GR-NYLON	16,900
DB-SA-168	3/8	120.0	0.500	0.406	1.000	0.516	GR-NYLON	16,900
DB-SA-157	3/8	124.0	0.500	0.406	1.000	0.516	GR-NYLON	16,900
DB-SA-207	3/8	175.0	0.500	0.406	1.000	0.516	GR-NYLON	16,900

DB SERIES: MAINTENANCE FREE DOG BONES (METRIC)

Part No.	Bore Size	C	W	H	D	O	Liner	Static Load Rating (Newtons) Radial
DB-SA-074	8	60.0	12	9.0	22	10.4	GR-NYLON	12,775
DB-SA-173	8	75.0	12	9.0	22	10.4	GR-NYLON	12,775
DB-SA-169	8	80.0	12	9.0	22	10.4	GR-NYLON	12,775
DB-SA-170	8	82.5	12	9.0	22	10.4	GR-NYLON	12,775
DB-SA-175	10	50.0	14	10.5	26	12.9	GR-NYLON	16,960
DB-SA-060	10	60.0	14	10.5	26	12.9	GR-NYLON	16,960
DB-SA-200	10	60.0	14	10.5	26	12.9	SINTERED BRONZE	16,960
DB-SA-174	10	65.0	14	10.5	26	12.9	GR-NYLON	16,960
DB-SA-196	10	70.0	14	10.5	26	12.9	GR-NYLON	16,960
DB-SA-160	10	85.0	14	10.5	26	12.9	GR-NYLON	16,960
DB-SA-171	10	100.0	14	10.5	26	12.9	GR-NYLON	16,960
DB-SA-059	10	120.0	14	10.5	26	12.9	GR-NYLON	16,960
DB-SA-172	10	124.0	14	10.5	26	12.9	GR-NYLON	16,960
DB-SA-180	10	175.0	14	10.5	26	12.9	GR-NYLON	16,960
DB-SA-355	12	151.0	16	12.0	30	15.4	SINTERED BRONZE	22,900

The above list shows our current production programme of Dog Bone rod ends. Please enquire for any item not shown.