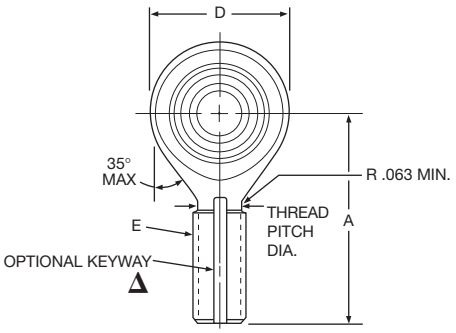
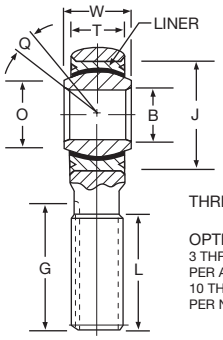
SECTION 4

ROD END BEARINGS – Self Lubricating

AS81935 Narrow – Male Thread





THREAD PER AS8879

OPTIONAL KEYWAY:
3 THROUGH 8 SIZES
PER AS81935/3
10 THROUGH 16 SIZES
PER NAS 559

Δ For keyway details, refer to the engineering section, pages 68-69.

Notes:

- Bearings listed in the tables are approved for procurement to AS81935.
- Temperature: Operating temperature range per AS81935; -65° to 325°F . Broader temperature capabilities are achievable. Contact NHBB Applications Engineering.

Part Number	MS Dash No.	(B) Bore Diameter	(D) Head Diameter	(W) Ball Width	(T) Body Width	(O) Shoulder Diameter	Ball Diameter	(A) Ball C/L to End	(E) Thread Size	(L) Complete Thread	(J) Housing I.D.	(G) Keyway Flat	(Q) Mis-alignment
		Inch	Inch	Inch	Inch	Inch	Inch	Inch		Inch	Inch	Inch	Ref.
		+.0000	+.010	+.000	+.005	Min.	Ref.	+.010		+.031	Max.	+.020	
M81935/4		-.0005	-.010	-.002	-.005			-.010	UNJF-3B	-.031		-.020	
ADNE3-382	-3	.1900	.680	.281	.228	.293	.406	1.315	1/4-28	.775	.5625	.896	10°
ADNE4-382	-4	.2500	.827	.343	.260	.364	.500	1.443	1/4-28	.775	.6562	.896	10°
ADNE5-382	-5	.3125	.984	.375	.291	.419	.562	1.948	5/16-24	1.187	.7500	1.308	10°
ADNE6-382	-6	.3750	1.131	.406	.322	.475	.656	2.030	3/8-24	1.187	.8125	1.308	9°
ADNE7-382	-7	.4375	1.294	.437	.353	.530	.718	2.250	7/16-20	1.281	.9062	1.402	8°
ADNE8-382	-8	.5000	1.459	.500	.400	.600	.813	2.544	1/2-20	1.468	1.0000	1.589	8°
ADNE10-382	-10	.6250	1.763	.625	.510	.739	.968	2.832	5/8-18	1.562	1.1875	1.683	8°
ADNE12-382	-12	.7500	2.140	.750	.603	.920	1.187	3.193	3/4-16	1.687	1.4375	1.808	8°
ADNE14-382	-14	.8750	2.372	.875	.713	.980	1.312	3.677	7/8-14	2.000	1.5625	2.121	8°
ADNE16-382	-16	1.0000	2.681	1.000	.807	1.118	1.500	3.968	1-12	2.100	1.7500	2.221	9°

Aerospace Standard P/N - Narrow

M81935/ 4- X X X

- Add "L" for Left Hand Thread
- Add "K" for Keyway
- Bore Diameter in Multiples of 1/16 inches
- Rod End Type: Male, Narrow
- AS P/N Prefix

NHBB P/N - Narrow

ADNE X X -382 X

- Add "W" for Keyway (See pages 68-69 for Keyway Details)
- Special NHBB P/N Suffix for Male "J" Form Thread Narrow Width
- Same as M81935/4 P/N
- Add "L" for Left Hand Thread
- NHBB P/N Prefix for Male Rod End

Materials

Part No.	Ball	Race	Liner	Body
Catalog No.	CRES 440C AMS 5630 Rc55-62	CRES 17-4PH AMS 5643 Rc28-37	TEFLON®/Fabric Bonded to Race I.D. No Lub. Required	4340 Alloy Steel AMS6415 Rc39-42 H.T. Cadmium Plated††
Catalog No. + CR†	CRES 440C AMS 5630 Rc55-62	CRES 17-4PH AMS 5643 Rc28-37	TEFLON®/Fabric Bonded to Race I.D. No Lub. Required	CRES 17-4PH AMS 5643 Rc39-44 Passivated

†† Body cadmium plated per AMS-QQ-P-416, Type II, CL. 2 on all surfaces including body bore.

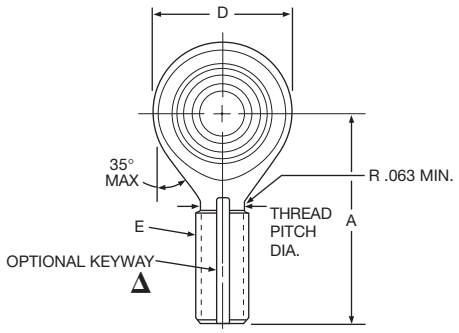
† Stainless Steel Series is not available to Aerospace Standard, but may be ordered to NHBB Part Number as indicated. Example: ADNE4CRJ or ADNE4-382CR

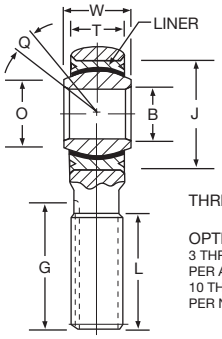
TEFLON® is a Du Pont registered trademark

Performance Properties - Narrow

M81935/4	MS Dash No.	No Load Rotational Breakaway Torque In-lbs.	Ultimate Static Radial Load lbs.	Axial Static Proof Load lbs.	Fatigue Load lbs.	Approx. Weight lbs.
ADNE3-382	-3	.5-6	3000	150	1100	.045
ADNE4-382	-4	.5-6	5300	430	1500	.060
ADNE5-382	-5	1-15	8600	700	2400	.100
ADNE6-382	-6	1-15	13000	1100	3600	.135
ADNE7-382	-7	1-15	17800	1400	5000	.200
ADNE8-382	-8	1-15	24200	2040	6800	.285
ADNE10-382	-10	1-15	38500	2430	10800	.505
ADNE12-382	-12	1-15	56600	2940	16000	.830
ADNE14-382	-14	1-24	77400	3190	21900	1.235
ADNE16-382	-16	1-24	101400	3570	28600	1.725

AS81935 Wide – Male Thread





THREAD PER AS8879

OPTIONAL KEYWAY:
3 THROUGH 8 SIZES
PER AS81935/3
10 THROUGH 16 SIZES
PER NAS 559

Δ For keyway details, refer to the engineering section, pages 68-69.

Notes:

- Bearings listed in the tables are approved for procurement to AS81935.
- Temperature: Operating temperature range per AS81935; -65° to 325°F . Broader temperature capabilities are achievable. Contact NHBB Applications Engineering.

Part Number	MS Dash No.	(B) Bore Diameter	(D) Head Diameter	(W) Ball Width	(T) Body Width	(O) Shoulder Diameter	Ball Diameter	(A) Ball C/L to End	(E) Thread Size	(L) Complete Thread	(J) Housing I.D.	(G) Keyway Flat	(Q) Mis-alignment
		Inch	Inch	Inch	Inch	Inch	Inch	Inch		Inch	Inch	Inch	Ref.
		+.0000	+.010	+.000	+.005			+.010		+.031		+.020	
M81935/1*		-.0005	-.010	-.002	-.005	Min.	Ref.	-.010	UNJF-3B	-.031	Max.	-.020	
ADNE3J	-3	.1900	.806	.437	.337	.300	.531	1.562	5/16-24	.968	.6250	.980	15°
ADNE4J	-4	.2500	.806	.437	.337	.300	.531	1.562	5/16-24	.968	.6250	.980	15°
ADNE5J	-5	.3125	.900	.437	.327	.360	.593	1.875	5/16-24	1.187	.6875	1.270	14°
ADNE6J	-6	.3750	1.025	.500	.416	.470	.687	1.938	3/8-24	1.187	.8125	1.235	8°
ADNE7J	-7	.4375	1.150	.562	.452	.540	.781	2.125	7/16-20	1.281	.9062	1.402	10°
ADNE8J	-8	.5000	1.337	.625	.515	.610	.875	2.438	1/2-20	1.468	1.0000	1.589	9°
ADNE10J	-10	.6250	1.525	.750	.577	.750	1.062	2.625	5/8-18	1.562	1.1875	1.683	12°
ADNE12J	-12	.7500	1.775	.875	.640	.850	1.250	2.875	3/4-16	1.687	1.3750	1.808	13°
ADNE14J	-14	.8750	2.025	.875	.765	1.000	1.375	3.375	7/8-14	2.000	1.6250	2.121	6°
ADNE16J	-16	1.0000	2.775	1.375	1.015	1.270	1.875	4.125	1 1/4-12	2.343	2.1250	2.464	12°

*For rod ends with threads per MIL-S-7742 Rev. D (UNF-3A), omit "J" from part number.

Aerospace Standard P/N - Wide

M81935/ 1- X X X

- Add "L" for Left Hand Thread
- Add "K" for Keyway
- Bore Diameter in Multiples of 1/16 inches
- Rod End Type: Male, Wide
- AS P/N Prefix

NHBB P/N - Wide

ADNE X X J X

- Add "W" for Keyway (See pages 68-69 for Keyway Details)
- "J" Indicates AS8879 Thread. This is Mandatory on M81935/1 & M81935/4 Rod Ends
- Bore Diameter: Same As M81935/1 P/N
- Add "L" for Left Hand Thread
- NHBB P/N Prefix for Male Rod End

Materials

Part No.	Ball	Race	Liner	Body
Catalog No.	CRES 440C AMS 5630 Rc55-62	CRES 17-4PH AMS 5643 Rc28-37	TEFLON®/Fabric Bonded to Race I.D. No Lub. Required	4340 Alloy Steel AMS6415 Rc39-42 H.T. Cadmium Plated††
Catalog No. + CR†	CRES 440C AMS 5630 Rc55-62	CRES 17-4PH AMS 5643 Rc28-37	TEFLON®/Fabric Bonded to Race I.D. No Lub. Required	CRES 17-4PH AMS 5643 Rc39-44 Passivated

†† Body cadmium plated per AMS-QQ-P-416, Type II, CL. 2 on all surfaces including body bore.

† Stainless Steel Series is not available to Aerospace Standard, but may be ordered to NHBB Part Number as indicated. Example: ADNE4CRJ or ADNE4-382CR

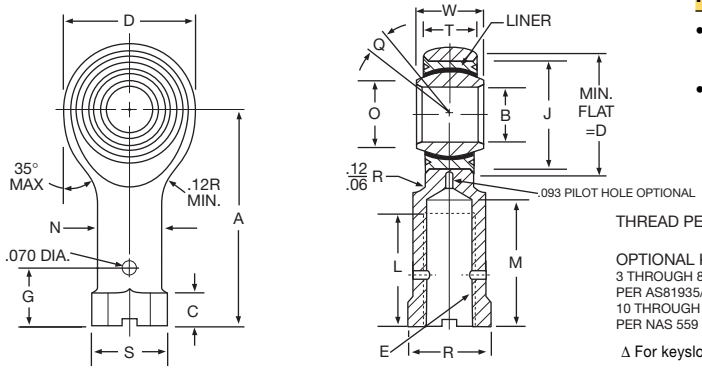
TEFLON® is a Du Pont registered trademark

Performance Properties - Wide

WIDE M81935/1*	MS Dash No.	No Load Rotational Breakaway Torque	Ultimate Static Radial Load	Axial Static Proof Load	Fatigue Load	Approx. Weight
		In-lbs.	lbs.	lbs.	lbs.	lbs.
ADNE3J	-3	.5-6	2360	1000	1470	.072
ADNE4J	-4	.5-6	4860	1000	2380	.072
ADNE5J	-5	1-15	7180	1100	2770	.087
ADNE6J	-6	1-15	8550	1660	3570	.136
ADNE7J	-7	1-15	12000	1850	4800	.183
ADNE8J	-8	1-15	19500	2040	7680	.278
ADNE10J	-10	1-15	21900	2430	9180	.424
ADNE12J	-12	1-15	29300	2810	11600	.639
ADNE14J	-14	1-24	34500	3320	13100	.963
ADNE16J	-16	1-24	80300	4340	30400	2.546

*For rod ends with threads per MIL-S-7742 Rev. D (UNF-3A), omit "J" from part number.

AS81935 Narrow – Female Thread



THREAD PER AS8879

OPTIONAL KEYSLOT:
3 THROUGH 8 SIZES
PER AS81935/5
10 THROUGH 16 SIZES
PER NAS 559 OR NAS 513

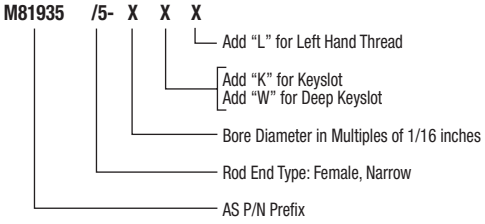
Δ For keyslot details, refer to the engineering section, pages 68-69.

Notes:

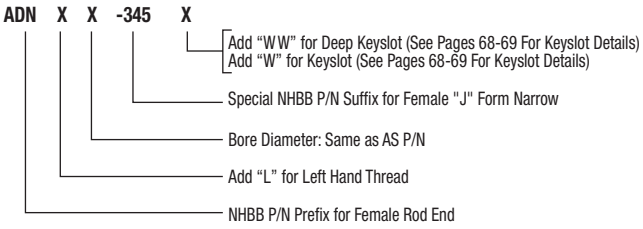
- Bearings listed in the tables are approved for procurement to AS81935.
- Temperature: Operating temperature range per AS81935; -65° to 325°F.
  Broader temperature capabilities are achievable.

Part Number	MS Dash No.	(B) Bore Diameter	(D) Head Diameter	(W) Ball Width	(T) Body Width	(O) Shoulder Diameter	Ball Diameter	(A) Ball C/L to End	(E) Thread Size	(L) Complete Thread	(N) Shank Diameter	(M) Drill Depth	(C) Flange Thickness	(R) Wrench Flat	(S) Corners or Diam.	(G) Drill C/L to End	(J) Housing I.D.	(Q) Mis-alignment
		Inch	Inch	Inch	Inch	Inch	Inch	Inch		Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch	Ref.
		+.0000	+.010	+.000	+.005	Min.	Ref.	+.010		Min.	+.010	Max.	+.010	+.002	Ref.	+.020	Max.	
M81935/5		-.0005	-.010	-.002	-.005			-.010	UNJF-3B		-.010		-.062	-.010		-.020		
ADN3-345	-3	.1900	.680	.281	.228	.293	.406	1.210	1/4-28	.625	.329	.750	.188	.375	.430	.312	.5625	10°
ADN4-345	-4	.2500	.827	.343	.260	.364	.500	1.338	1/4-28	.625	.329	.750	.188	.375	.430	.312	.6562	10°
ADN5-345	-5	.3125	.984	.375	.291	.419	.562	1.566	5/16-24	.750	.413	.875	.188	.437	.500	.375	.7500	10°
ADN6-345	-6	.3750	1.131	.406	.322	.475	.656	1.908	3/8-24	1.000	.501	1.125	.250	.625	.720	.437	.8125	9°
ADN7-345	-7	.4375	1.294	.437	.353	.530	.718	2.125	7/16-20	1.125	.584	1.250	.250	.625	.720	.500	.9062	8°
ADN8-345	-8	.5000	1.459	.500	.400	.600	.813	2.356	1/2-20	1.250	.672	1.375	.375	.875	1.020	.562	1.0000	8°
ADN10-345	-10	.6250	1.763	.625	.510	.739	.968	2.707	5/8-18	1.375	.845	1.500	.375	.875	1.020	.687	1.1875	8°
ADN12-345	-12	.7500	2.140	.750	.603	.920	1.187	3.193	3/4-16	1.625	1.017	1.750	.500	1.125	1.300	.812	1.4375	8°
ADN14-345	-14	.8750	2.372	.875	.713	.980	1.312	3.677	7/8-14	1.875	1.187	2.062	.500	1.250	1.375	.937	1.5625	8°
ADN16-345	-16	1.0000	2.681	1.000	.807	1.118	1.500	4.101	1-12	2.125	1.356	2.312	.500	1.375	1.590	1.062	1.7500	9°

Aerospace Standard P/N - Narrow



NHBB P/N - Narrow



Materials

Part No.	Ball	Race	Liner	Body
Catalog No.	CRES 440C AMS 5630 Rc55-62	CRES 17-4PH AMS 5643 Rc28-37	TEFLON®/Fabric Bonded to Race I.D. No Lub. Required	4340 Alloy Steel, AMS6415 Rc39-42 Cadmium Plated††
Catalog No. + CR†	CRES 440C AMS 5630 Rc55-62	CRES 17-4PH AMS 5643 Rc28-37	TEFLON®/Fabric Bonded to Race I.D. No Lub. Required	CRES 17-4PH AMS 5643 Rc39-44 Passivated

††Body Cadmium plated per AMS-QQ-P-416, Type II, CL. 2 on all surfaces including body bore.

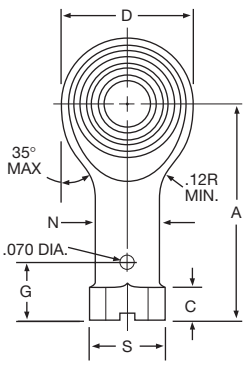
† Stainless Steel Series is not available to Aerospace Standard, but may be ordered to NHBB Part Number as indicated. Example: ADN4CRJ or ADN 4-345CR

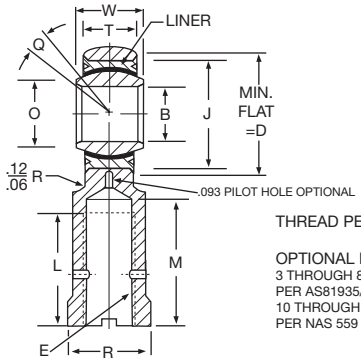
TEFLON® is a Du Pont registered trademark

Performance Properties – Narrow

M81935/5	MS Dash No.	No Load Rotational Breakaway Torque In-lbs.	Ultimate Static Radial Load lbs.	Axial Static Proof Load lbs.	Fatigue Load lbs.	Approx. Weight lbs.
ADN 3-345	-3	.5-6	3000	150	1100	.045
ADN 4-345	-4	.5-6	5500	430	1300	.060
ADN 5-345	-5	1-15	8900	700	2000	.100
ADN 6-345	-6	1-15	13400	1100	3100	.145
ADN 7-345	-7	1-15	18200	1400	4200	.215
ADN 8-345	-8	1-15	24600	2040	5700	.303
ADN 10-345	-10	1-15	39500	2430	9200	.550
ADN 12-345	-12	1-15	57200	2940	13500	.930
ADN 14-345	-14	1-24	77800	3100	18400	1.390
ADN 16-345	-16	1-24	101100	3570	24000	1.975

AS81935 Wide – Female Thread





THREAD PER AS8879

OPTIONAL KEYSLOT:
3 THROUGH 8 SIZES
PER AS81935/2
10 THROUGH 16 SIZES
PER NAS 559 OR NAS 513

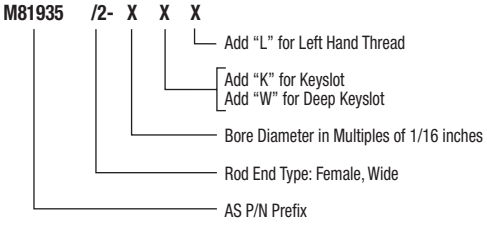
Notes:

- Bearings listed in the tables are approved for procurement to AS81935.
- Temperature: Operating temperature range per AS81935; -65° to 325°F.
  Broader temperature capabilities are achievable.

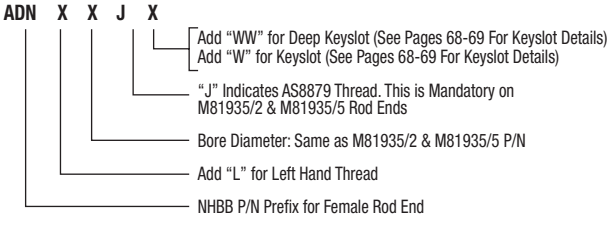
Part Number M81935/2*	MS Dash No.	(B) Bore Diameter	(D) Head Diameter	(W) Ball Width	(T) Body Width	(O) Shoulder Diameter	Ball Diameter	(A) Ball C/L to End	(E) Thread Size	(L) Complete Thread	(N) Shank Diameter	(M) Drill Depth	(C) Flange Thickness	(R) Wrench Flat	(S) Corners or Diam.	(G) Drill C/L to End	(J) Housing I.D.	(Q) Mis-alignment
		Inch +.0000 -.0005	Inch +.010 -.010	Inch +.000 -.002	Inch +.005 -.005	Inch Min.	Inch Ref.	Inch +.010 -.010	UNJF-3B	Inch Min.	Inch +.010 -.010	Max.	Inch +.010 -.062	Inch +.002 -.010	Inch Ref.	Inch +.020 -.020	Inch Max.	Ref.
ADN3J	-3	.1900	.806	.437	.337	.300	.531	1.375	5/16-24	.750	.422	.875	.188	.437	.500	.375	.6250	15°
ADN4J	-4	.2500	.806	.437	.337	.300	.531	1.469	5/16-24	.750	.422	.875	.188	.437	.500	.375	.6250	15°
ADN5J	-5	.3125	.900	.437	.327	.360	.593	1.625	3/8-24	.875	.485	1.000	.250	.500	.580	.437	.6875	14°
ADN6J	-6	.3750	1.025	.500	.416	.470	.687	1.812	3/8-24	1.000	.547	1.125	.250	.562	.660	.437	.8125	8°
ADN7J	-7	.4375	1.150	.562	.452	.540	.781	2.000	7/16-20	1.125	.610	1.250	.250	.625	.720	.500	.9062	10°
ADN8J	-8	.5000	1.337	.625	.515	.610	.875	2.250	1/2-20	1.250	.735	1.375	.250	.750	.880	.562	1.0000	9°
ADN10J	-10	.6250	1.525	.750	.577	.750	1.062	2.500	5/8-18	1.375	.860	1.500	.375	.875	1.020	.687	1.1875	12°
ADN12J	-12	.7500	1.775	.875	.640	.850	1.250	2.875	3/4-16	1.625	.985	1.750	.375	1.000	1.160	.812	1.3750	13°
ADN14J	-14	.8750	2.025	.875	.765	1.000	1.375	3.375	7/8-14	1.875	1.110	2.062	.500	1.125	1.300	.937	1.6250	6°
ADN16J	-16	1.0000	2.775	1.375	1.015	1.270	1.875	4.125	1 1/4-12	2.125	1.688	2.312	.563	1.750	2.020	1.312	2.1250	12°

* For rod ends with threads per MIL-S-7742 Rev. D (UNF-3B), omit "J" from part number.

Aerospace Standard P/N - Wide



NHBB P/N - Wide



Materials

Part No.	Ball	Race	Liner	Body
Catalog No.	CRES 440C AMS 5630 Rc55-62	CRES 17-4PH AMS 5643 Rc28-37	TEFLON®/Fabric Bonded to Race I.D. No Lub. Required	4340 Alloy Steel, AMS6415 Rc39-42 Cadmium Plated††
Catalog No. + CR†	CRES 440C AMS 5630 Rc55-62	CRES 17-4PH AMS 5643 Rc28-37	TEFLON®/Fabric Bonded to Race I.D. No Lub. Required	CRES 17-4PH AMS 5643 Rc39-44 Passivated

††Body Cadmium plated per AMS-QQ-P-416, Type II, CL. 2 on all surfaces including body bore.

† Stainless Steel Series is not available to Aerospace Standard, but may be ordered to NHBB Part Number as indicated. Example: ADN4CRJ or ADN 4-345CR

TEFLON® is a Du Pont registered trademark

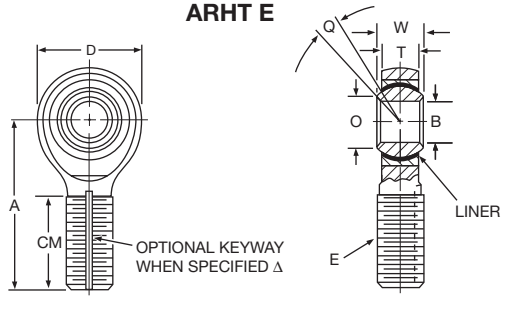
Performance Properties – Wide

M81935/2*	MS Dash No.	No Load Rotational Breakaway Torque In-lbs.	Ultimate Static Radial Load lbs.	Axial Static Proof Load lbs.	Fatigue Load lbs.	Approx. Weight lbs.
ADN 3J	-3	.5-6	2360	1000	1470	.080
ADN 4J	-4	.5-6	4860	1000	2380	.084
ADN 5J	-5	1-15	7180	1100	3020	.102
ADN 6J	-6	1-15	8550	1660	3570	.161
ADN 7J	-7	1-15	12000	1850	4800	.212
ADN 8J	-8	1-15	19500	2040	8260	.325
ADN 10J	-10	1-15	21900	2430	9180	.481
ADN 12J	-12	1-15	29300	2810	11600	.673
ADN 14J	-14	1-24	34500	3320	13100	.959
ADN 16J	-16	1-24	80300	4340	30400	2.717

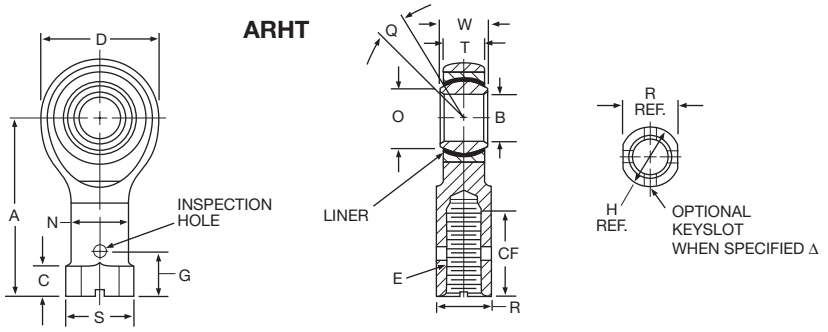
* For rod ends with threads per MIL-S-7742 Rev. D (UNF-3B), omit "J" from part number

3-Piece Heavy Duty – Male & Female Threads

ARHT E



ARHT



Δ For keyway and keyslot details, refer to the engineering section, pages 68-69.

Part Number	(B) Bore Diameter	(D) Head Diameter	(W) Ball Width	(T) Body Width	Ball Diameter	(O) Flat Diameter	(A) Ball C/L to End	(E) Thread Size	(Q) Mis-alignment	(CM) Thread Length	(CF) Thread Depth	(G) Inspection Hole Dimension	(N) Shank Diameter	(S) Flange Diameter	(C) Flange Thickness	(R) Wrench Flat	No Load Rotational Breakaway Torque	Limit Static Radial Load	Axial Static Proof Load	Weight
	Inch	Inch	Inch	Inch	Inch	Inch	Inch			Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch - lbs.	lbs.	lbs.	lbs.
	+.0000	+.010	+.000	+.005			+.010	UNF - 3A*		+.031			+.010		+.010	+.002				Ref.
	-.0005	-.010	-.002	-.005	Ref.	Ref.	-.010	UNF - 3B*	Ref.	-.031	Min.	Ref.	-.010	Ref.	+.062	-.010				
ARHT4E	.2500	.806	.375	.337	.531	.375	1.562	5/16 - 24	5°	.968	.750	.375	.485	.562	.188	.500	.5 - 6	6060	1000	.067
ARHT4							1.469													.084
ARHT5E	.3125	.900	.437	.327	.593	.401	1.875	3/8 - 24	14°	1.187	.875	.437	.547	.625	.250	.562	1 - 10	7290	1100	.095
ARHT5							1.625													.102
ARHT6E	.3750	1.025	.500	.416	.687	.471	1.938	7/16 - 20	9°	1.187	1.000	.500	.610	.687	.250	.625	1 - 10	8870	1660	.140
ARHT6							1.812													.160
ARHT7E	.4375	1.150	.562	.452	.781	.542	2.125	1/2 - 20	10°	1.281	1.125	.562	.735	.875	.250	.750	1 - 10	9560	1850	.210
ARHT7							2.000													.230
ARHT8E	.5000	1.337	.625	.515	.875	.612	2.438	5/8 - 18	9°	1.468	1.250	.687	.860	1.000	.250	.875	1 - 10	18560	2040	.330
ARHT8							2.250													.340
ARHT10E	.6250	1.525	.750	.577	1.062	.752	2.625	3/4 - 16	12°	1.562	1.375	.812	.985	1.125	.375	1.000	1 - 10	20610	2430	.480
ARHT10							2.500													.490
ARHT12E	.7500	1.775	.875	.640	1.250	.892	2.875	7/8 - 14	13°	1.687	1.625	.937	1.110	1.250	.375	1.125	1 - 10	27640	2810	.730
ARHT12							2.875													.740

* UNF-3A = Male Thread. UNF-3B = Female Thread per MIL-S-7742, Rev. D.

Notes:

- †Plating: When specified in materials block, body cadmium plated all surfaces per AMS-QQ-P-416.
- Dimensions: Dimensions apply after plating.
- Temperature: Operating temperature range -65° to 350°F (ADY only).
- Qualifications: Liner is approved to MIL-B-8942 Rev. A (ARHT series only).
- Options:

1. For left hand threads, add “L” to prefix. (Examples: ARHTL4E or ARHTL4)
2. For Keyway or keyslot options add suffix “W” to part number.
3. For “J” form threads per AS8879, add suffix “J” to part number. (Examples: ARHT10EJW or ARHT10JW)

Materials (ARHT)

Designation	Ball	Race	Liner	Body
Basic† Part No.	CRES 440C AMS 5630 Rc55-62	Stainless Steel, H.T.††	TEFLON® Fabric Bonded to Race I.D.	C.M. Steel H.T., Cadmium Plated
No. + CR	CRES 440C AMS 5630	Stainless Steel, H.T.†† Rc55-62	TEFLON® Fabric Bonded to Race I.D.	CRES 17-4PH AMS 5643 H.T

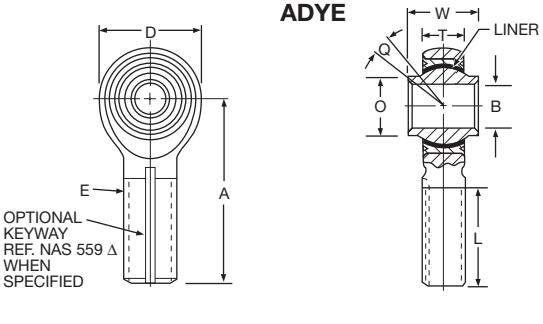
† Stainless Steel Series may be ordered to NHBB Part Number as indicated.

†† Part No. designation as shown furnished with CRES 410 race material. To specify CRES 17-4PH race material, add suffix “H” to designation. Examples: ARHT8ECRH or ARHT8CRH.

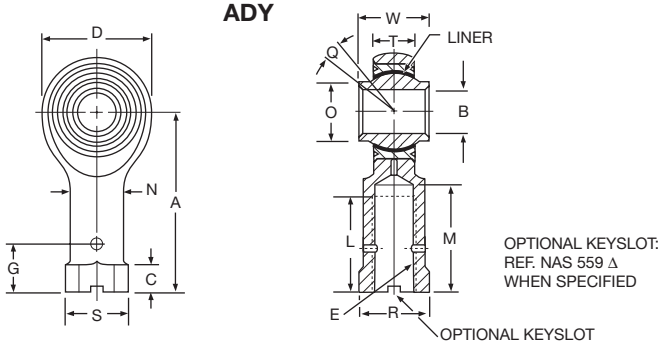
TEFLON® is a Du Pont registered trademark

3-Piece High Misalignment – Male & Female Threads

ADYE



ADY



ΔFor keyway and keyslot details, refer to the engineering section, page 68-69.

Part Number	(B) Bore Diameter	(D) Head Diameter	(W) Ball Width	(T) Body Width	(O) Shoulder Diameter	Ball Diameter	(A) Ball C/L to End	(E) Thread Size	(Q) Mis-alignment	(L) Thread Length	(N) Shank Diameter	(R) Wrench Flat	(S) Flange Diameter	(C) Flange Thickness	(G) Drill C/L to End	No Load Rotational Breakaway Torque	Limit Static Radial Load	Weight
	Inch +.0000 -.0005	Inch Max.	Inch +.000 -.005	Inch +.005 -.005	Inch Ref.	Inch Ref.	Inch +.06 -.06	UNF - 3A* UNF - 3B*	Ref.	Inch +.06 -.06	Inch +.010 -.010	Inch Ref.	Inch Ref.	Inch +.010 +.062	Inch +.002 -.010	Inch - lbs.	lbs.	lbs. Ref.
ADYE3(L)	.1900	.781	.560	.337	.301	.531	1.562	5/16 - 24	16°	1.000	.500	.515	.562	.250	.375	. 5 - 6	2425	.07
ADY3(L)							1.625			.750								.08
ADYE3-101(L)	.1900	.750	.500	.220	.319	.437	1.500	5/16 - 24	15°	1.000	.437	.452	.500	.250	.375	.5 - 6	4060 **	.07
ADY3-101(L)							1.375			.750								.06
ADYE4(L)	.2500	1.000	.593	.265	.390	.593	1.938	3/8 - 24	23°	1.250	.562	.577	.625	.250	.437	1 - 15	7040 **	.11
ADY4(L)							1.625			.937								.11
ADYE5(L)	.3125	1.125	.813	.355	.512	.781	2.125	7/16 - 20	23°	1.375	.625	.640	.688	.250	.500	1 - 15	8260	.16
ADY5(L)							1.812			1.062								.18
ADYE6(L)	.3750	1.125	.813	.355	.512	.781	2.125	7/16 - 20	23°	1.375	.625	.640	.688	.250	.500	1 - 15	8260	.15
ADY6(L)							1.812			1.062								.17
ADYE7(L)	.4375	1.312	.875	.355	.618	.875	2.437	1/2 - 20	22°	1.500	.750	.765	.812	.250	.562	1 - 15	12420	.25
ADY7(L)							2.125			1.125								.26
ADYE8(L)	.5000	1.500	.937	.411	.730	1.000	2.625	5/8 - 18	20°	1.625	.875	.890	.938	.375	.687	1 - 15	17430	.39
ADY8(L)							2.625			1.500								.40
ADYE10(L)	.6250	1.750	1.200	.577	.856	1.250	2.875	3/4 - 16	20°	1.750	1.000	1.015	1.125	.375	.812	1 - 15	23620	.62
ADY10(L)							2.875			1.750								.63
ADYE12(L)	.7500	2.000	1.280	.630	.970	1.375	3.375	7/8 - 14	18°	1.875	1.125	1.140	1.250	.500	.937	1 - 24	30550	.90
ADY12(L)							3.375			1.875								.87
ADYE14(L)	.8750	2.200	1.400	.635	1.140	1.531	3.750	7/8 - 14	18°	2.000	1.125	1.140	1.250	.500	.937	1 - 24	31970	1.08
ADY14(L)							3.750			2.000								1.01
ADYE16(L)	1.0000	2.750	1.875	.845	1.278	1.875	4.125	1 1/4 - 12	21°	2.125	1.688	1.703	1.813	.562	1.312	1 - 24	59510	2.20
ADY16(L)							4.125			2.125								2.31
ADYE20(L)	1.2500	3.125	1.875	1.015	1.523	2.250	5.000	1 1/4 - 12	21°	2.875	1.688	1.703	1.813	.562	1.312	1 - 24	70060	3.10
ADY20(L)							5.000			3.125								3.15

* UNF-3A = Male Thread. UNF-3B = Female Thread per MIL-S-7742, Rev. D. ** Load based on pin limitation.

Notes:

- †Plating: When specified in materials block, body cadmium plated all surfaces per AMS-QQ-P-416.
- Dimensions: Dimensions apply after plating.
- Temperature: Operating temperature range -65° to 350°F (ADY only).
- Qualifications: Liner is approved to AS81820 (ADY series only.)
- Options:
  1. For left hand threads, add "L" to prefix. (Examples: ADYEL4(L) or ADYL4(L))
  2. For Keyway or keyslot options add suffix "W" to part number.
  3. For "J" form threads per AS8879, add suffix "J" to part number. (Examples: ADYE4JW(L) or ADY4JW(L))

Materials (ADYE & ADY)

Part No.	Ball	Race	Liner	Body
Catalog No.	CRES 440C AMS 5630 Rc55-62	CRES 17-4PH AMS 5643 Rc28-37	TEFLON® Fabric Bonded to Race I.D. No Lub.Required	4130 Alloy Steel H.T., and Cadmium Plated†
Catalog No. + SS	CRES 440C AMS 5630 Rc55-62	CRES 17-4PH AMS 5643 Rc28-37	TEFLON® Fabric Bonded to Race I.D. No Lub.Required	CRES 17-4PH AMS 5643 H.T., and Passivated

† Stainless Steel Series may be ordered to NHBB Part Number as indicated.
TEFLON® is a Du Pont registered trademark