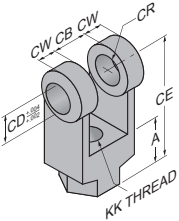
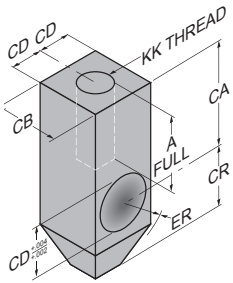


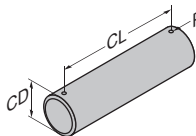
Dimensional Data Clevis/Brackets/Pins/Rod Eyes

ROD CLEVIS													ROD EYE		
	Part #	Code	Max. Load (tension) (lbs)	Thread Size	KK	A	CA	CB	CD	CE	CR	CW	ER	Part #	Code
	15-72-1001	C101	4,380	7/16-20	3/4	1 1/2	3/4	1/2	1 1/2	1/2	1/2	5/8		15-73-1001	C301
	15-72-1002	C102	12,372	3/4-16	1 1/8	2 1/16	1 1/4	3/4	2 3/8	3/4	5/8	7/8		15-73-1002	C302
	15-72-1003	C103	20,433	1-14	1 5/8	2 13/16	1 1/2	1	3 1/8	1	3/4	3 1/16		15-73-1003	C303
	15-72-1004	C104	30,483	1 1/4-12	2	3 7/16	2	1 3/8	4 1/8	1 3/8	1	1 9/16		15-73-1004	C304
	15-72-1005	C105	49,479	1 1/2-12	2 1/4	4	2 1/2	1 3/4	4 1/2	1 3/4	1 1/4	2		15-73-1005	C305
	15-72-1006	C106	70,095	1 7/8-12	3	5	2 1/2	2	5 1/2	2	1 1/4	2 1/2		15-73-1006	C306
	15-72-1007	C107	94,248	2 1/4-12	3 1/2	5 13/16	3	2 1/2	6 1/2	2 1/2	1 1/2	2 13/16		15-73-1007	C307
	15-72-1008	C108	121,932	2 1/2-12	3 1/2	6 1/8	3	3	6 3/4	2 3/4	1 1/2	3 1/4		15-73-1008	C308
	15-72-1009	C109	187,908	3 1/4-12	4 1/2	7 5/8	4	3 1/2	8 1/2	3 1/2	2	3 7/8		15-73-1009	C309
	15-72-1010	C110	268,026	4-12	5 1/2	9 1/8	4 1/2	4	10	4	2 1/4	4 7/16		15-73-1010	C310
															

NOTE: The Rod Clevis and Rod Eyes are designed for use with the standard *Milwaukee Cylinder* Style No. 2 Rod End.

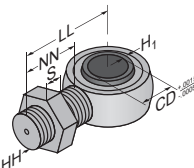
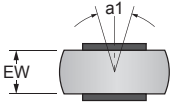
When ordering these accessories, be sure to match the thread size of the Style No. 2 Rod End of the rod size you ordered to the thread size of the accessory you require.

PIVOT PIN				
Part #	Code	CD	CL	P
15-76-1001	P101	1/2	1 7/8	9/64
15-76-1002	P102	3/4	2 5/8	9/64
15-76-1003	P103	1	3 1/8	13/64
15-76-1004	P104	1 3/8	4 1/8	13/64
15-76-1005	P105	1 3/4	5 1/8	13/64
15-76-1006	P106	2	5 1/8	17/64
15-76-1007	P107	2 1/2	6 1/8	Groove width .086 to .091
15-76-1008	P108	3	6 3/16	Groove width .103 to .108
15-76-1009	P109	3 1/2	8 1/8	Groove width .120 to .125
15-76-1010	P110	4	9 1/8	Groove width .120 to .125

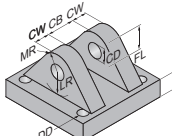
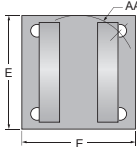
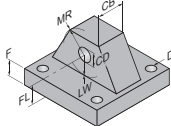
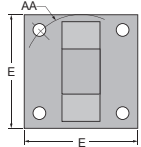


- Pivot pins are furnished with clevis mounted cylinders as standard.
- Pivot pins for 1 1/2" - 6" bore are furnished with cotter pins.
Pivot pins for 7" thru 12" bore are furnished with snap rings.
- Pivot pins are not furnished as standard and must be ordered separately for use with accessories.

SPHERICAL ROD EYE (WITH NUT)									
Part #	Max. Load (tension) (lbs)	a1	CD	EW	H ₁	HH	LL	NN	S
HS-301	1,665	12°	1/2	5/8	1 1/16	7/16-20	2 7/16	1 15/32	1/4
HS-302	7,020	13 1/2°	3/4	7/8	2 9/32	3/4-16	2 27/32	1 23/32	7/16
HS-303	19,050	14°	1	1 3/8	1 13/32	1-14	4 3/32	2 3/32	9/16
S-301	1,450	12°	1/2	5/8	1 1/16	7/16-20	2 7/16	1 15/32	1/4
S-302	2,880	13 1/2°	3/4	7/8	2 9/32	3/4-16	2 27/32	1 23/32	7/16
S-303	10,885	14°	1	1 3/8	1 13/32	1-14	4 3/32	2 3/32	9/16

NOTE: The Spherical Rod Eye is used with Style 3 and 5 rod ends.

CLEVIS BRACKET													EYE BRACKET						
 	Part # Code	Max. Load (tension) (lbs)*	Max. Press. (psi)*	AA	CB	CD	CW	Thrd. Size	DE	E	Clevis	Eye	Clevis	Eye	LR	LW	MR	Part # Code	
	15-74-2001 B101	7,510	3,000	2.3	3/4	1/2	1/2	3/8-24	13/32	2 1/2	3/8	1 1/8	1 1/8	1 1/8	13/16	1 1/16	1/2	15-75-2001 B401	
	15-74-2002 B122	20,082	3,000	2.9	1 1/4	3/4	5/8	1/2-20	17/32	3	5/8	1 7/8	1 7/8	1 7/8	13/16	1 1/4	3/4	15-75-2002 B422	
	15-74-2003 B102	20,082	3,000	3.6	1 1/4	3/4	5/8	1/2-20	17/32	3 1/2	5/8	1 7/8	1 7/8	1 7/8	15/16	1 3/16	3/4	15-75-2003 B402	
	15-74-2004 B103	27,684	3,000	4.6	1 1/2	1	3/4	5/8-18	2 1/32	4 1/2	3/4	2 1/4	2 1/4	2 1/4	1 3/8	1 3/8	1	15-75-2004 B403	
	15-74-2005 B104	20,685	3,000	5.4	2	1 3/8	1	5/8-18	2 1/32	5	7/8	3	3	3	1 7/8	1 7/8	1 3/8	15-75-2005 B404	
	15-74-2006 B105	55,000	3,000	7.0	2 1/2	1 3/4	1 1/4	7/8-14	29/32	6 1/2	7/8	1 1/8	3 1/8	3 3/8	2	2 1/32	1 5/8	15-75-2006A B405A	
	15-74-2007 B106	80,000	3,000	8.1	2 1/2	2	1 1/4	1-14	1 1/32	7 1/2	1	1 1/2	3 1/2	4	2 1/16	2 1/16	2	15-75-2007A B406A	
	15-74-2008 B107	115,000	3,000	9.3	3	2 1/2	1 1/2	1 1/8-12	1 5/32	8 1/2	1	1 3/4	4	4 3/4	2 5/8	2 21/32	2 3/8	15-75-2008A B407A	
	15-74-2009 B108	125,000	3,000	10.6	3	3	1 1/2	1 1/4-12	1 9/32	9 1/2	1	2	4 1/4	5 1/4	2 7/8	2 7/8	2 3/4	15-75-2009A B408A	
													 						

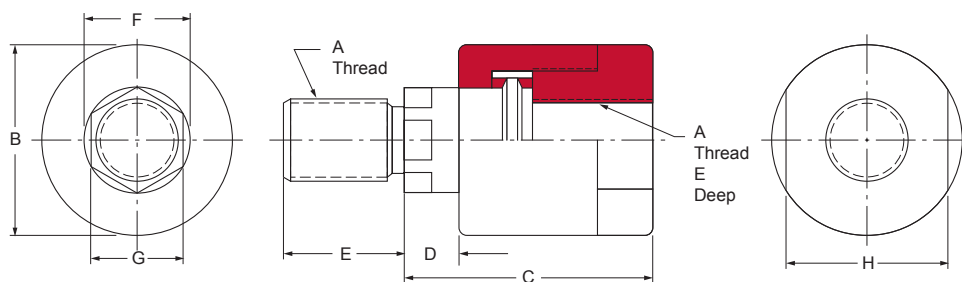
* Eye Bracket only. Eye Brackets with suffix letter "A" reflect revised NFPA standards for F and FL dimensions.

Milwaukee
Cylinder

Cylinder Accessories

	Page
<i>Linear Alignment Coupler</i>	149
<i>AMLOK® Rod Clamp</i>	150-151
<i>Flange Couplers and Weld Plates</i>	152
<i>Spherical Rod Accessories</i>	153

Milwaukee Cylinder provides various cylinder accessories to maximize your cylinder's potential. **Linear Alignment Couplers** prevent binding and erratic movement caused by misalignment. **Amlok® Rod Clamps** hold position securely after motion has stopped. Additional accessories are detailed in this section, and also on the inside back cover of this catalog.



▼ Linear Alignment Coupler Dimensional Chart

Model No.	A Thread	B Body Ø	C Body Length	D Shank Length	E Thread Length	F Shank Ø	G Flats	H Flats	Max. Rated Load (lbs)	Max. Load @ Yield (lbs)
MC-312	5/16-24	7/8	1 1/4	1/4	5/8	5/16	1/4	3/4	2075	8300
MC-375	3/8-24	7/8	1 1/4	1/4	5/8	5/16	5/16	3/4	2075	8300
MC-437	7/16-20	1 1/4	2	1/2	3/4	5/8	1/2	1	2500	10,000
MC-500	1/2-20	1 1/4	2	1/2	3/4	5/8	1/2	1	3500	14,000
MC-625	5/8-18	1 1/4	2	1/2	3/4	5/8	1/2	1	4750	19,000
MC-750	3/4-16	1 3/4	2 5/16	1/2	1 1/8	31/32	7/8	1 1/2	8500	34,000
MC-875	7/8-14	1 3/4	2 5/16	1/2	1 1/8	31/32	7/8	1 1/2	9750	39,000
MC-1000	1-14	2 1/2	2 15/16	1/2	1 5/8	1 3/8	1 5/32	2 1/4	16,000	64,000
MC-1250	1 1/4-12	2 1/2	2 15/16	1/2	1 5/8	1 3/8	1 5/32	2 1/4	19,500	78,000
MC-1500	1 1/2-12	3 1/4	4 3/8	13/16	2 1/4	1 3/4	1 1/2	3	33,500	134,000
MC-1750	1 3/4-12	3 1/4	4 3/8	13/16	2 1/4	1 3/4	1 1/2	3	33,500	134,000
MC-1875	1 7/8-12	3 3/4	5 7/16	7/8	3	2	1 7/8	3 1/2	60,000	240,000
MC-2000	2-12	3 3/4	5 7/16	7/8	3	2	1 7/8	3 1/2	60,000	240,000

NOTES:

All dimensions are subject to change by manufacturer.

Larger sizes, special designs and metric versions are available. Consult factory.

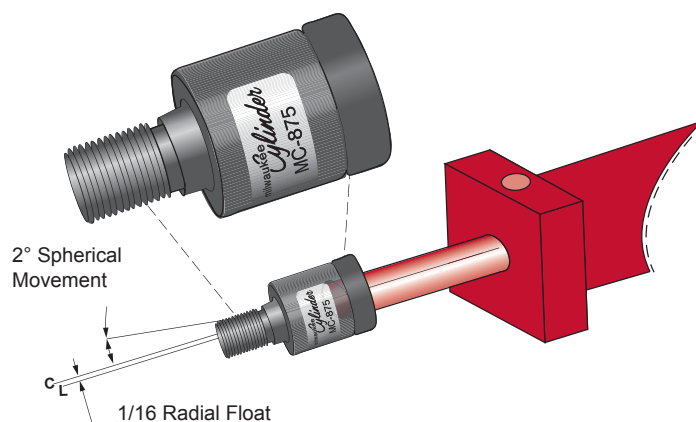
Use jam nut to lock coupler to rod when used with full diameter threads.

Use "Max. Rated Load" for 4:1 safety factor.

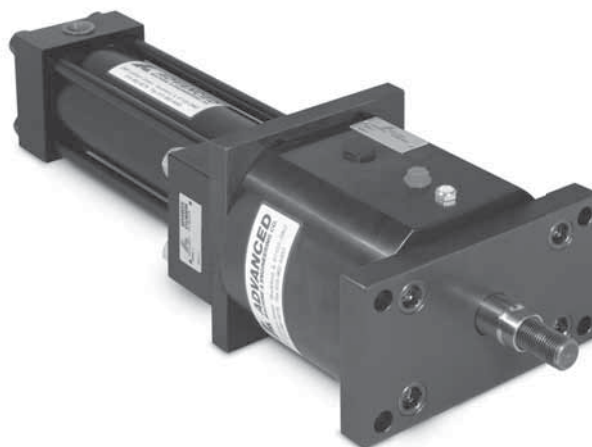
Eliminate Alignment Problems. Install a Linear Alignment Coupler.

Features...

- Reduces rod seal and bearing wear
- Prevents binding and erratic movement caused by misalignment
- Permits a greater tolerance between cylinder centerline and mating member
- Works equally well in "push" or "pull" applications



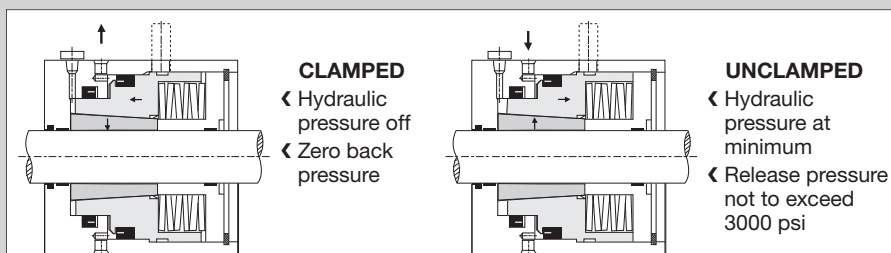
Contact your Milwaukee Cylinder representative for product selection assistance.



AMLOK® TYPE RCH ROD CLAMP

- Provides power-off clamping of rods and shafts
- Clamps are actuated by a spring/collet mechanism and unclamped by hydraulic pressure
- Designed to clamp components after the motion has stopped and to hold the position securely as long as the forces do not exceed the table values

▼ HOW AMLOK® TYPE RCH ROD CLAMP WORKS



Optional Accessories

- **Proximity Switch** – to indicate an “unlocked” condition.
- **Air Bleed** - It is important that all the air be bled from the AMLOK® piston area. It is recommended to install an automatic air bleed valve between the AMLOK® and the oil reservoir.

▼ HOW TO ORDER

Example: **RCH - XXX - XXX - 075 100 150 X** Example: RCH - 100 250 - 150 N

Rod Size - X.XX (inches)

Cylinder Bore Size - X.XX (inches)

Release Pressure - (psi divided by 10)

Select Options:

- P - Proximity Switch (indicates unclamped position)
- N - No Proximity Switch

1.00" Rod - 2.50" Cylinder Bore
1500 psi Release Pressure
No Proximity Switch

Movement in Load A direction is zero.

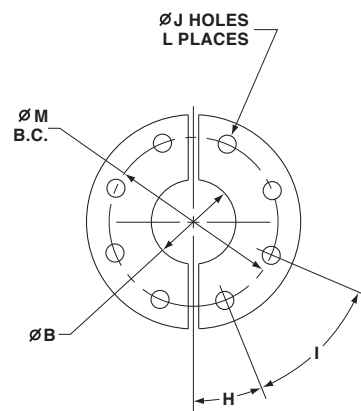
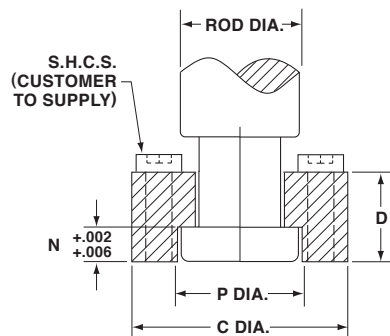
Movement in Load B direction is .012" maximum when clamp is fully locked

Rod Dia. ¹	Rod Dia. Tolerance ²	Cyl Bore	AMLOK® Part No. RCH –	Min. Release Pressure psi ³	Max. Holding Force ⁴	D ± .03	L ± .03	E ± .015	R ± .005	TF ± .005	FB ± .015	B ± .015	A ± .015	K ± .015	C ± .03	F ± .03	G ± .03	J ± .03	M ± .03	Port
.625	+.000 -.003	1.50	062 150-075 062 150-100 062 150-150	750 1000 1500	1100 1800 2250	4.37	3.55	1.63	1.625	3.437	.44	1.25	2.48	.23	.38	2.13	.75	.79	.78	SAE 4
1.000	+.000 -.003	1.50	100 150-075 100 150-100 100 150-150	750 1000 1500	1200 2000 2300	4.37	3.45	1.75	1.625	3.437	.44	1.63	2.76	.23	.50	1.88	.87	.79	.78	SAE 4
1.000	+.000 -.003	2.00	100 200-075 100 200-100 100 200-150	750 1000 1500	2900 5200 5600	5.37	4.37	2.25	2.050	4.125	.56	1.63	3.74	.23	.35	2.90	.85	1.00	0	SAE 4
1.000	+.000 -.003	2.50	100 250-075 100 250-100 100 250-150	750 1000 1500	2900 5200 6000	5.98	5.12	2.50	2.550	4.625	.56	1.63	4.13	.23	.50	3.40	1.00	1.50	0	SAE 4
1.375	+.000 -.003	2.00	137 200-075 137 200-100 137 200-150	750 1000 1500	2700 2700 5200	5.37	4.65	2.25	2.050	4.125	.56	2.13	3.74	.23	.50	3.00	1.00	1.50	0	SAE 4
1.375	+.000 -.003	2.50	137 250-075 137 250-100 137 250-150	750 1000 1500	2700 5200 6000	5.98	5.12	2.50	2.550	4.625	.56	2.13	4.13	.23	.50	3.50	.90	1.50	0	SAE 4
1.375	+.000 -.003	3.25	137 325-075 137 325-100 137 325-150	750 1000 1500	8200 11500 16000	7.75	6.50	3.25	3.250	5.875	.69	2.13	5.70	.28	.45	4.50	1.10	2.60	0	SAE 4
1.750	+.000 -.003	2.50	175 250-075 175 250-100 175 250-150	750 1200 2000	3500 5700 7500	6.00	5.91	2.50	2.55	4.630	.56	2.38	4.33	.32	.70	3.90	.96	2.44	.78	SAE 4
1.750	+.000 -.003	3.25	175 325-075 175 325-100 175 325-150	750 1000 1500	8200 11500 16000	7.75	6.50	3.25	3.250	5.875	.69	2.50	5.70	.30	.63	4.67	.93	2.60	0	SAE 4
1.750	+.000 -.003	4.00	175 400-075 175 400-100 175 400-150	750 1000 1500	8200 12000 17000	8.38	6.50	3.50	3.820	6.375	.69	2.50	6.10	.34	.50	4.375	1.225	2.20	0	SAE 4
2.000	+.000 -.003	3.25	200 325-075 200 325-100 200 325-150	750 1000 1500	8200 11500 16000	7.75	6.50	3.25	3.250	5.875	.69	2.68	5.70	.29	.58	4.50	1.10	2.60	0	SAE 4
2.000	+.000 -.003	5.00	200 500-075 200 500-100 200 500-150	750 1000 1500	8200 12000 17000	11.25	6.50	3.50	4.950	8.187	.94	2.75	6.10	.34	.50	4.375	1.225	2.20	0	SAE 4
2.500	+.000 -.003	4.00	250 400-075 250 400-100 250 400-150	750 1000 1500	6000 8000 15000	7.68	7.10	3.50	3.813	6.375	.69	3.14	6.10	.35	.56	4.77	1.23	3.00	.91	SAE 4
2.500	+.000 -.003	6.00	250 600-075 250 600-100 250 600-150	750 1000 1500	30000 36000 50000	12.75	9.00	5.00	5.730	9.437	1.06	3.25	8.85	.38	.75	3.625	1.125	3.00	0	SAE 4
3.000	+.000 -.003	6.00	300 600-075 300 600-100	750 1000	17000 22500	12.75	9.00	5.00	5.730	9.437	1.06	3.88	—	—	.38	4.88	1.1	3.11	0	SAE 8
3.000	+.000 -.003	7.00	300 700-075 300 700-100 300 700-150	750 1000 1500	30000 36000 50000	14.75	10.00	6.50	6.580	10.625	1.19	3.88	—	—	.75	7.325	1.375	4.73	0	SAE 8
3.500	+.000 -.003	8.00	350 800-075 350 800-100 350 800-150	750 1000 1500	40000 55000 80000	16.14	11.50	7.00	7.500	11.812	1.31	4.38	—	—	.90	8.93	1.32	5.35	0	SAE 10
4.000	+.000 -.005	8.00	400 800-075 400 800-100 400 800-150	750 1000 1500	40000 55000 80000	16.14	11.50	7.00	7.500	11.812	1.31	4.88	—	—	.90	8.875	1.365	5.35	0	SAE 10

¹ Other sizes available upon request.² Rod tolerances that exceed these limits will affect the holding force.³ Maximum Hydraulic Release Pressure: 3000 psi⁴ Holding forces are based on dry or mineral-oil lubricated shafts.

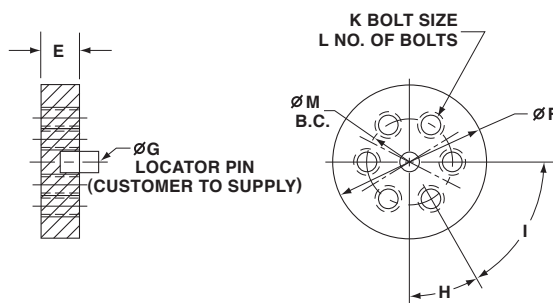
Dimensions are subject to change without notice.

▼ FLANGE COUPLERS



PART#	ROD DIA.	B	C	D	H	I	J	L	M	N	P	MATERIAL
ACFC-062	.625	.406	1.500	.562	45°	90°	.218	4	1.125	.250	.656	AISI 1144 CD
ACFC-100	1.000	.750	2.000	.875	30°	60°	.281	6	1.500	.375	1.063	AISI 1144 CD
ACFC-137	1.375	.938	2.500	1.000	30°	60°	.343	6	2.000	.375	1.438	AISI 1018 CD
ACFC-175	1.750	1.187	3.000	1.250	22.5°	45°	.343	8	2.375	.500	1.813	AISI 1018 CD
ACFC-200	2.000	1.438	3.500	1.625	15°	30°	.406	12	2.688	.625	2.063	AISI 1018 CD
ACFC-250	2.500	1.875	4.000	1.875	15°	30°	.406	12	3.188	.750	2.625	AISI 1018 CD
ACFC-300	3.000	2.375	5.000	2.375	15°	30°	.531	12	4.000	.875	3.125	AISI 1018 CD
ACFC-350	3.500	2.625	5.875	2.625	15°	30°	.656	12	4.688	1.000	3.625	C1119 MOD
ACFC-400	4.000	3.125	6.375	2.625	15°	30°	.656	12	5.188	1.000	4.125	C1119 MOD
ACFC-450	4.500	3.625	6.875	3.125	15°	30°	.656	12	5.688	1.500	4.625	C1119 MOD
ACFC-500	5.000	4.000	7.375	3.125	15°	30°	.656	12	6.188	1.500	5.125	C1119 MOD
ACFC-550	5.500	4.500	8.250	3.875	15°	30°	.781	12	6.875	1.875	5.625	C1119 MOD

▼ WELD PLATES



PART#	SIZE	E	F	G	H	I	K	L	M	MATERIAL
ACWP-062	.625	.500	2.000	.250	45°	90°	10 - 24	4	1.125	CD 1018
ACWP-100	1.000	.500	2.500	.250	30°	60°	1/4 - 20	6	1.500	CD 1018
ACWP-137	1.375	.625	3.000	.250	30°	60°	5/16 - 18	6	2.000	CD 1018
ACWP-175	1.750	.625	4.000	.250	22.5°	45°	5/16 - 18	8	2.375	CD 1018
ACWP-200	2.000	.750	4.000	.375	15°	30°	3/8 - 16	12	2.688	CD 1018
ACWP-250	2.500	.750	4.500	.375	15°	30°	3/8 - 16	12	3.188	CD 1018
ACWP-300	3.000	1.000	5.500	.375	15°	30°	1/2 - 13	12	4.000	CD 1018
ACWP-350	3.500	1.000	7.000	.375	15°	30°	5/8 - 11	12	4.688	A 36 HRS
ACWP-400	4.000	1.000	7.000	.375	15°	30°	5/8 - 11	12	5.188	A 36 HRS
ACWP-450	4.500	1.000	8.000	.375	15°	30°	5/8 - 11	12	5.688	A 36 HRS
ACWP-500	5.000	1.000	8.000	.375	15°	30°	5/8 - 11	12	6.188	A 36 HRS
ACWP-550	5.500	1.250	9.000	.375	15°	30°	3/4 - 10	12	6.875	A 36 HRS

▼ SPHERICAL EYE BRACKETS



PART#	CB	CD - .0005	DD	E	F	FL	LR	M	MR	R
ACEB-05	1/2	.5000	13/32	2 1/2	3/8	1 1/8	3/4	1 1/16	1 1/16	1.62
ACEB-07	3/4	.7500	17/32	3 1/2	5/8	1 7/8	1 1/4	1 3/16	1 3/16	2.56
ACEB-10	1	1.0000	2 1/32	4 1/2	3/4	2 1/4	1 1/2	1 3/8	1 3/8	3.25
ACEB-13	1 1/8	1.3750	2 1/32	5	7/8	3	2 1/8	2	2	3.81
ACEB-17	1 1/2	1.7500	2 9/32	6 1/2	7/8	3 1/8	2 1/4	2 1/8	2 1/8	4.94
ACEB-20	1 3/4	2.0000	1 1/32	7 1/2	1	3 1/2	2 1/2	2 3/8	2 3/8	5.75

MATERIAL: 05 thru 10, 1144 Steel Forging; 13 thru 20, Steel Weldment

▼ PIVOT PINS FOR SPHERICAL CLEVIS BRACKETS



PART#	CD	CL
ACPP-05	.4997-.0004	1 1/16
ACPP-07	.7497-.0005	2 1/32
ACPP-10	.9997-.0005	2 1/2
ACPP-13	1.3746-.0006	3 5/16
ACPP-17	1.7496-.0006	4 7/32
ACPP-20	1.9996-.0007	4 15/16

MATERIAL: CD1144 **HEAT TREATMENT:** Nitrotec

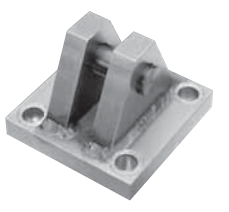
▼ SPHERICAL ROD EYES



PART#	CD - .0005	A	CE	EX	ER	LE	KK	JL
ACRE-05	.5000	1 1/16	7/8	7/16	7/8	3/4	7/16 - 20	7/8
ACRE-07	.7500	1	1 1/4	2 1/32	1 1/4	1 1/16	3/4 - 16	1 1/16
ACRE-10	1.0000	1 1/2	1 7/8	7/8	1 3/8	1 7/16	1 - 14	1 1/2
ACRE-13	1.3750	2	2 1/8	1 3/16	1 13/16	1 7/8	1 1/4 - 12	2
ACRE-17	1.7500	2 1/8	2 1/2	1 17/32	2 3/16	2 1/8	1 1/2 - 12	2 1/4
ACRE-20	2.0000	2 7/8	2 3/4	1 3/4	2 5/8	2 1/2	1 1/8 - 12	2 3/4

MATERIAL: Ductile Iron Casting

▼ SPHERICAL CLEVIS BRACKETS



PART#	E	F	M	R	CD	CF	CW	DD	FL	LR	MR
ACCB-05	3.00	.50	.50	2.05	.500	.44	.50	.41	1.50	.94	.62
ACCB-07	3.75	.62	.88	2.76	.750	.66	.62	.53	2.00	1.38	1.00
ACCB-10	5.50	.75	1.00	4.10	1.000	.88	.75	.53	2.50	1.69	1.19
ACCB-13	6.50	.88	1.38	4.95	1.375	1.19	1.00	.66	3.50	2.44	1.62
ACCB-17	8.50	1.25	1.75	6.58	1.750	1.53	1.25	.91	4.50	2.88	2.06
ACCB-20	10.62	1.50	2.00	7.92	2.000	1.75	1.50	.91	5.00	3.31	2.38

MATERIAL: Steel Weldment