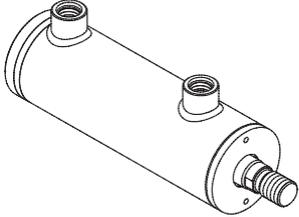
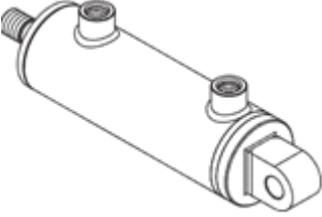
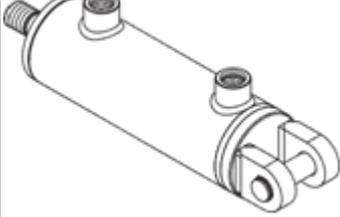
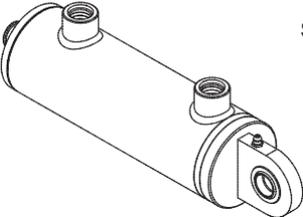
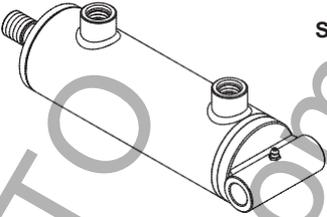
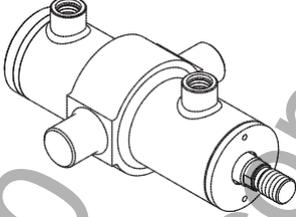
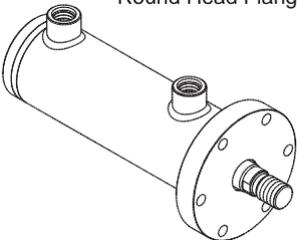
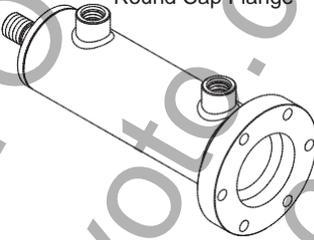
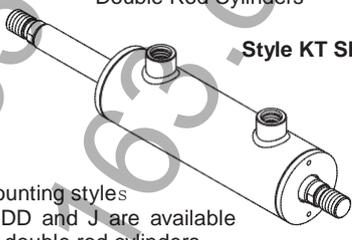


RDH 液压缸安装方式 最大工作压力 160bar

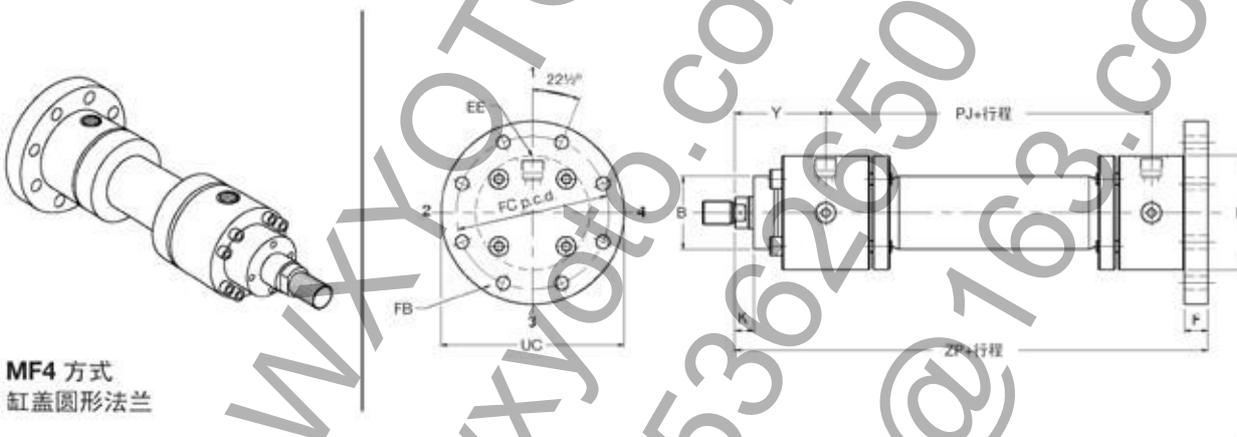
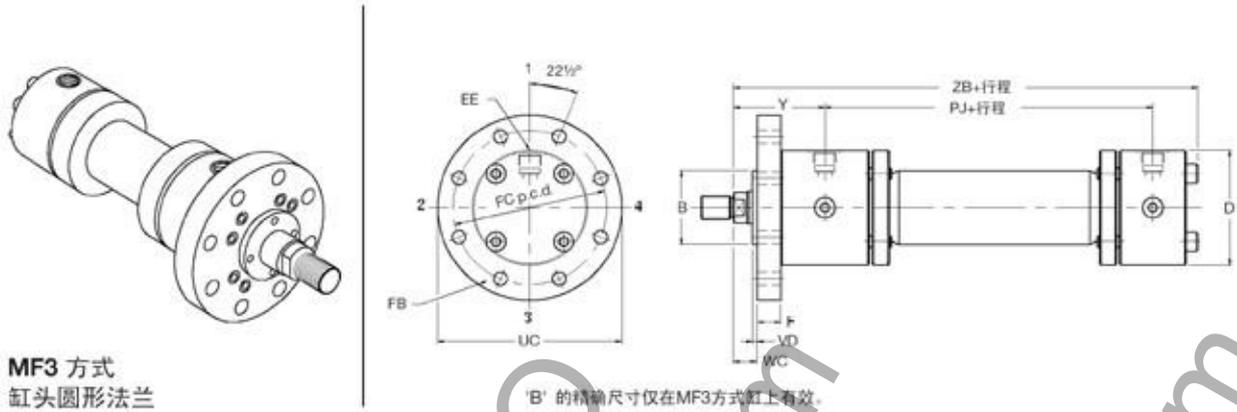


所有的安装形式

<p>Basic, No Mount</p>  <p>Style T</p>	<p>Cap Fixed Eye</p>  <p>Style B</p>	<p>Cap Fixed Clevis</p>  <p>Style BB</p>
<p>Spherical Bearing Cap End</p>  <p>Style SB/SBM</p>	<p>Crosstube Cap End</p>  <p>Style TT</p>	<p>Intermediate Fixed Trunnion</p>  <p>Style DD</p>
<p>Round Head Flange</p>  <p>Style J</p>	<p>Round Cap Flange</p>  <p>Style H</p>	<p>Double Rod Cylinders</p>  <p>Style KT Shown</p> <p>Mounting styles T, DD and J are available as double rod cylinders.</p>

WXYOTO
 www.wxyoto.com
 0510-85362650
 13951586037@

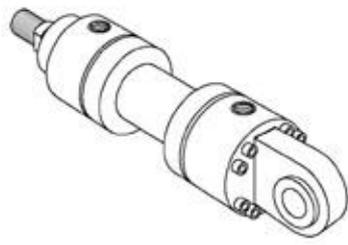
圆形法兰安装方式 MF3、MF4



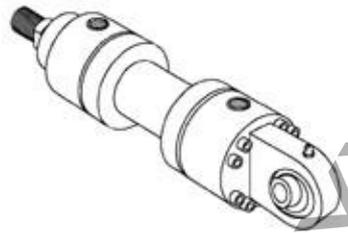
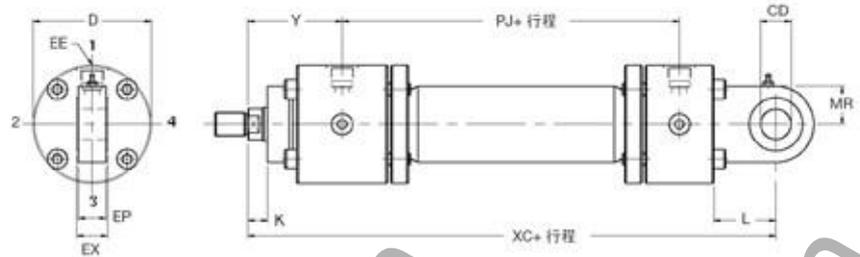
MF3、MF4 尺寸表

缸内径 Ø	活塞杆 号	MM 活塞杆直径 Ø	B f8	D max	EE (BSPF)	F	FB h13	FC s13	K	UC max	VD min	WC	Y	+ 行程		
														PJ	ZB max	ZP
40	1	22	50	78	G ¹ / ₂	16	9	106	13	125	3	16	71	97	198	206
	2	28														
50	1	28	60	95	G ¹ / ₂	20	11	126	14	148	4	18	72	111	213	225
	2	36														
63	1	36	70	116	G ³ / ₄	25	13.5	145	16	170	4	20	82	117	236	249
	2	45														
80	1	45	85	130	G ³ / ₄	32	17.5	165	18	195	4	22	91	134	262	282
	2	56														
100	1	56	106	158	G1	32	22	200	20	238	5	25	108	162	314	332
	2	70														
125	1	70	132	192	G1	32	22	285	23	272	5	28	121	174	341	357
	2	90														
160	1	90	160	232	G ¹ / ₄	36	22	280	25	316	5	30	143	191	386	406
	2	110														
200	1	110	200	285	G ¹ / ₄	40	26	340	30	385	5	35	190	224	466	490
	2	140														
250	1	140	250	365	G ¹ / ₂	56	33	420	32	500	8	40	205	290	570	606
	2	180														
320	1	180	320	450	G ¹ / ₂	63	39	520	37	600	8	45	250	358	684	723
	2	220														

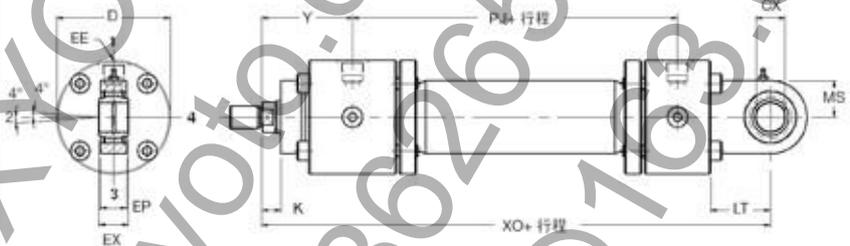
铰接安装方式 MP3、MP5



MP3 方式
缸盖固定耳环



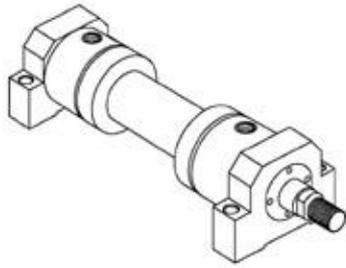
MP5 方式
缸盖固定耳环
带球面轴承



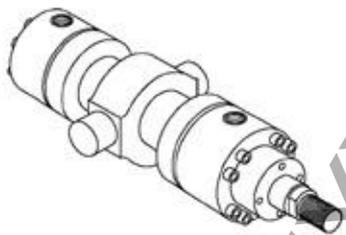
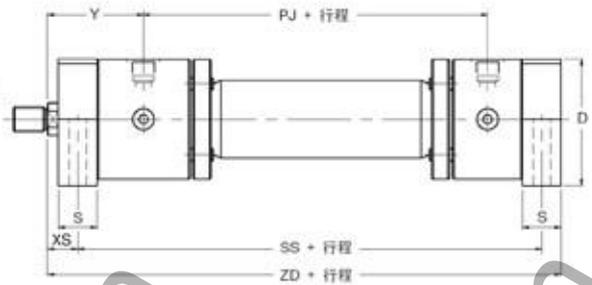
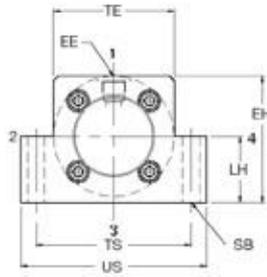
MP3、MP5 尺寸表

缸内径 Ø	活塞杆 号	MM 活塞杆直径 Ø	CD ^{H9} & CX ^{H7}	D _{max}	EE (BSPP)	EP	EX _{h12}	K	L & LT	MR & MS	Y	+行程	
												PJ	XC & XO
40	1 2	22 28	20	78	G ¹ / ₂	18	20	13	41	25	71	97	231
50	1 2	28 36	25	95	G ¹ / ₂	22	25	14	52	32	72	111	257
63	1 2	36 45	32	116	G ³ / ₄	27	32	16	65	40	82	117	289
80	1 2	45 56	40	130	G ³ / ₄	35	40	18	82	50	91	134	332
100	1 2	56 70	50	158	G1	40	50	20	95	63	108	162	395
125	1 2	70 90	63	192	G1	52	63	23	103	71	121	174	428
160	1 2	90 110	80	232	G ¹ / ₄	66	80	25	135	90	143	191	505
200	1 2	110 140	100	285	G ¹ / ₄	84	100	30	165	112	190	224	615
250	1 2	140 180	125	365	G ¹ / ₂	102	125	32	223	160	205	290	773
320	1 2	180 220	160	450	G ¹ / ₂	130	160	37	270	200	250	358	930

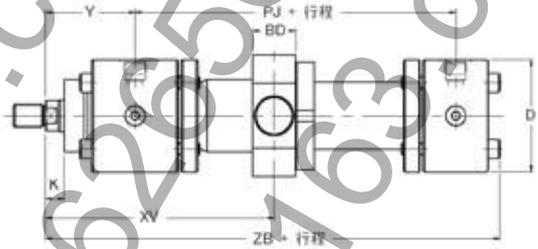
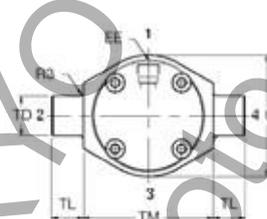
耳轴和底座安装方式 MT4、MS2



MS2 方式
底座安装



MT4 方式
中间固定耳轴

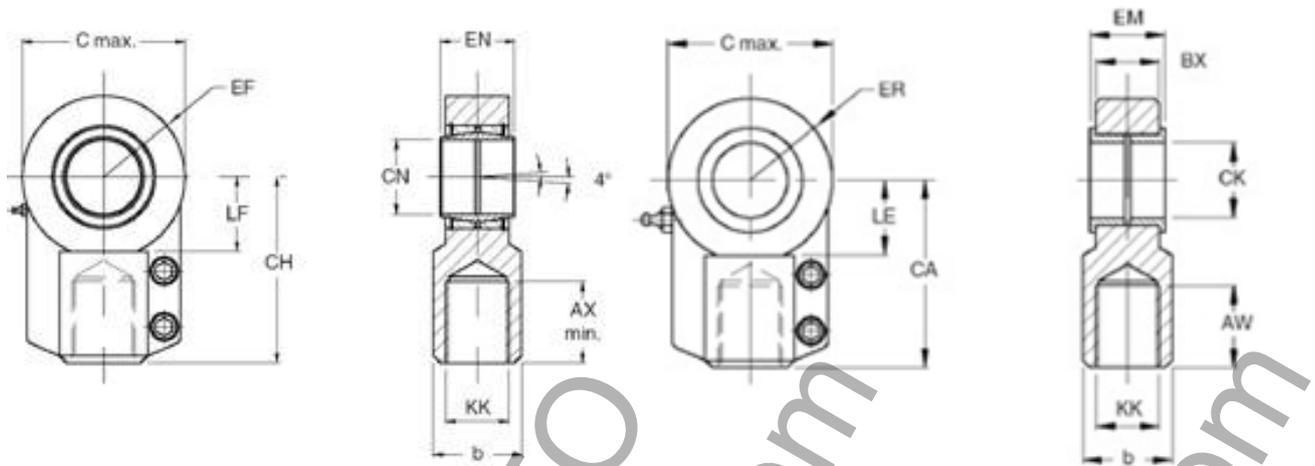


注意：XV尺寸须由客户指定，如果其最小尺寸接受不了，请咨询制造商。

MS2、MT4 尺寸表

缸内径 Ø	活塞杆 号	MM 活塞杆 直径 Ø	BD max	D & TE max	EE (BSP)	EH	K	LH h10	S	SB H13	TD t8	TL Jst5	TM h12	TS Jst3	US	UV max	XS	XV min	Y	Min. 行程 MT4	+ 行程				
																					PJ	SS	XV max	ZB max	ZD
40	1 2	22 28	30	78	G1/2	82	13	43	25	11	20	16	90	100	120	78	19.5	130	71	37	97	183	93	198	215
50	1 2	28 36	35	95	G1/2	100	14	52	32	14	25	20	105	120	145	95	22	142	72	40	111	199	102	213	237
63	1 2	36 45	45	116	G3/4	120	16	62	32	18	32	25	120	150	180	116	29	160	82	53	117	211	107	236	256
80	1 2	45 56	50	130	G3/4	135	18	70	40	22	40	32	135	170	210	130	34	180	91	53	134	236	122	262	290
100	1 2	56 70	60	158	G1	161	20	82	50	26	50	40	160	205	250	158	32	210	108	58	162	293	152	314	350
125	1 2	70 90	75	192	G1	196	23	100	56	33	63	50	195	245	300	195	32	235	121	78	174	321	157	341	381
160	1 2	90 110	90	232	G1 1/4	238	25	119	60	33	80	63	240	295	350	240	36	273	143	96	191	364	177	386	430
200	1 2	110 140	110	285	G1 1/4	288	30	145	72	39	100	80	295	350	415	390	39	337	190	70	224	447	267	466	522
250	1 2	140 180	135	365	G1 1/2	-	32	-	-	-	125	100	370	-	-	480	-	393	205	95	290	-	298	570	-
320	1 2	180 220	175	450	G1 1/2	-	37	-	-	-	160	125	470	-	-	600	-	486	250	116	358	-	370	684	-

杆用耳环带球面轴承-ISO 6982 杆用耳环带滑动轴套-ISO 6981

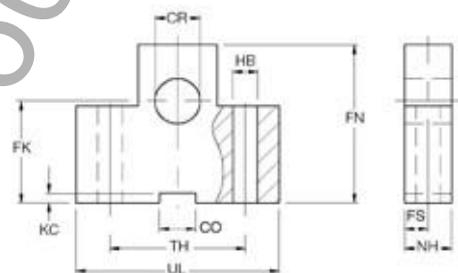


尺寸表

缸内径 Ø	KK	球面轴承 零件号	滑动轴套 零件号	AX & AW min.	b	BX	C max.	CA & CH	CK & CN	EF & ER	EM ^{M12} & EN ^{M12}	LE & LF	额定 载荷 kN	重量 kg
40	M16x1.5	145239	148729	23	25	17	52	20	25	20	22	20		
50	M20x1.5	145240	148730	29	30	21	65	25	32	25	27	32		
63	M27x2	145241	148731	37	38	27	80	32	40	32	32	50		
80	M33x2	145242	148732	46	47	32	97	40	50	40	41	80		
100	M42x2	145243	148733	57	58	40	120	50	63	50	50	125		
125	M48x2	145244	148734	64	70	52	140	63	71	63	62	200		
160	M64x3	145245	148735	86	90	66	180	80	90	80	78	320		
200	M80x3	148724	148737	96	110	84	210	100	112	100	98	500		
250	M100x3	148726	148739	113	135	102	260	125	160	125	120	800		
320	M125x4	148727	148740	126	165	130	310	160	250	160	150	1250		

耳轴安装座-ISO8132

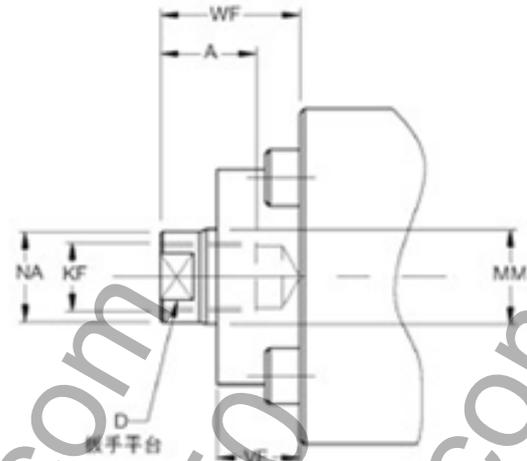
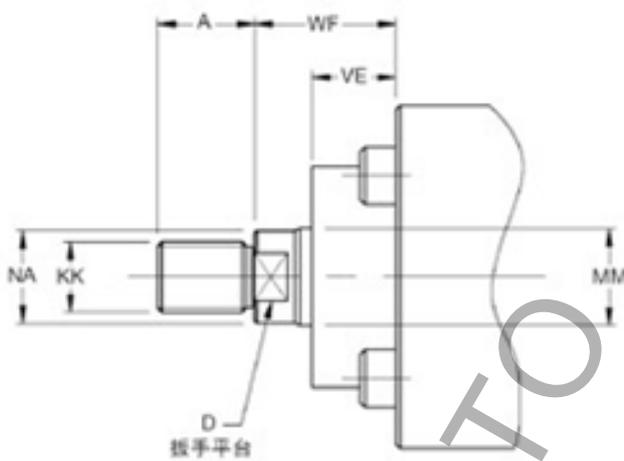
缸内径 Ø	零件号	CO N9	CR H7	FK js12	FN max	FS js14	HB H13	KC +0.3	NH max	TH js14	UL max	额定 载荷 kN
40	149333	16	20	45	70	10	11	4.3	21	60	90	20
50	149334	25	25	55	80	12	13.5	5.4	26	80	110	32
63	149335	25	32	65	100	15	17.5	5.4	33	110	150	50
80	149336	36	40	76	120	16	22	8.4	41	125	170	80
100	149337	36	50	95	140	20	26	8.4	51	160	210	125
125	149338	50	63	112	180	25	33	11.4	61	200	265	200
160	149339	50	80	140	220	31	39	11.4	81	250	325	320



活塞杆端杆结构

杆端方式 4 和 7

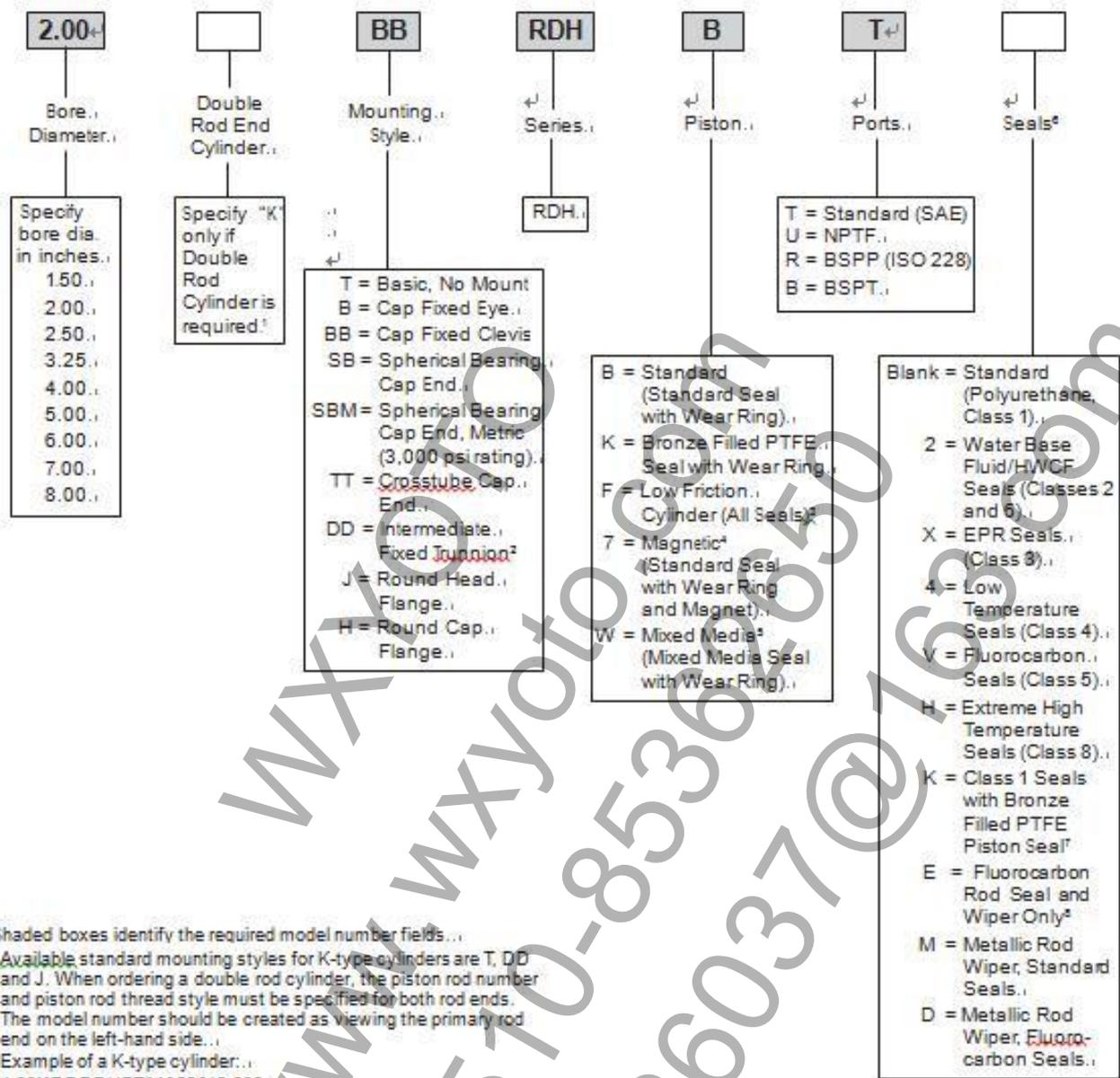
端杆方式 9

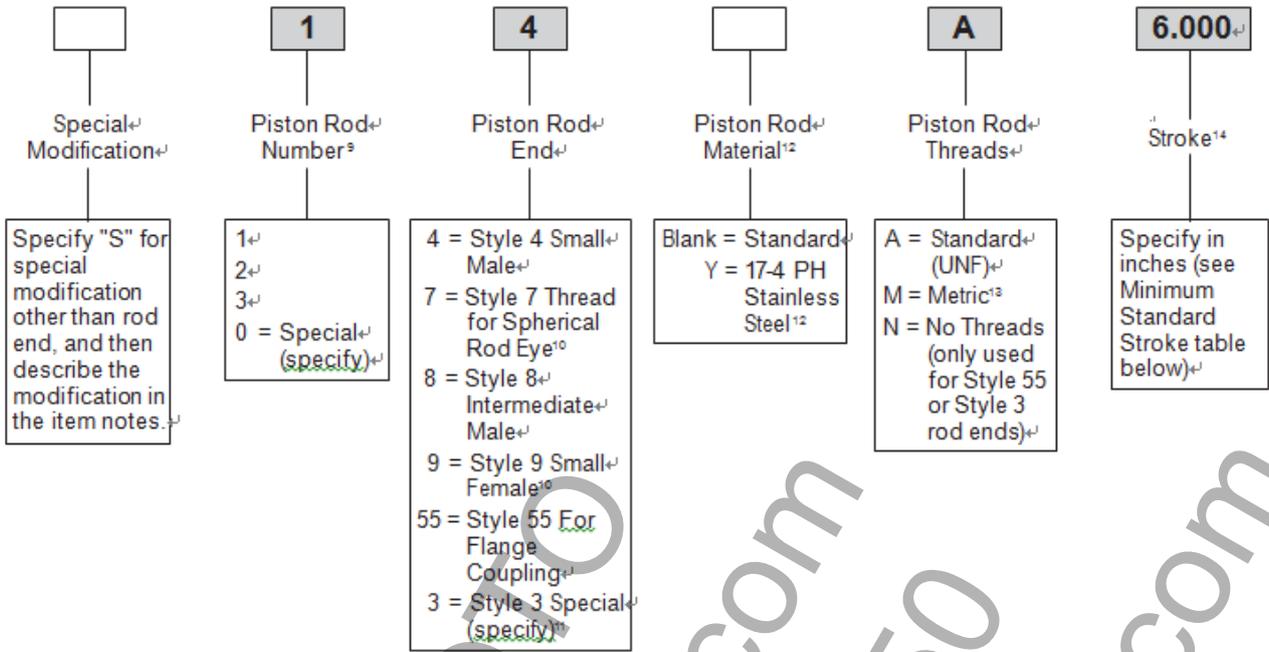


活塞杆端尺寸

缸内径 Ø	活塞杆 号	MM 活塞杆 直径 Ø	方式4		方式7		方式9		D	NA	VE	WF
			KK	A	KK	A	KF	A				
40	1	22	M16x1.5	22	-	-	M16x1.5	22	18	21	19	32
	2	28	M20x1.5	28	M16x1.5	22	M20x1.5	28	22	26		
50	1	28	M20x1.5	28	-	-	M20x1.5	28	22	26	24	38
	2	36	M27x2	36	M20x1.5	28	M27x2	36	30	34		
63	1	36	M27x2	36	-	-	M27x2	36	30	34	29	45
	2	45	M33x2	45	M27x2	36	M33x2	45	39	43		
80	1	45	M33x2	45	-	-	M33x2	45	39	43	36	54
	2	56	M42x2	56	M33x2	45	M42x2	56	48	54		
100	1	56	M42x2	56	-	-	M42x2	56	48	54	37	57
	2	70	M48x2	63	M42x2	56	M48x2	63	62	68		
125	1	70	M48x2	63	-	-	M48x2	63	62	68	37	60
	2	90	M64x3	85	M48x2	63	M64x3	85	80	88		
160	1	90	M64x3	85	-	-	M64x3	85	80	88	41	66
	2	110	M80x3	95	M64x3	85	M80x3	95	100	108		
200	1	110	M80x3	95	-	-	M80x3	95	100	108	45	75
	2	140	M100x3	112	M80x3	95	M100x3	112	128	138		
250	1	140	M100x3	112	-	-	M100x3	112	128	138	64	96
	2	180	M125x4	125	M100x3	112	M125x4	125	-	175		
320	1	180	M125x4	125	-	-	M125x4	125	-	175	71	108
	2	220	M160x4	160	M125x4	125	M160x4	160	-	214		

如何订购液压缸



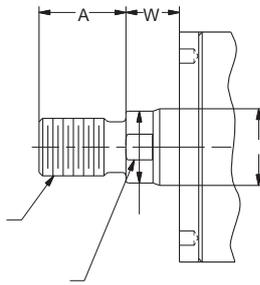


Minimum Standard Stroke

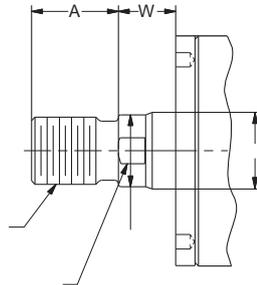
BoreØ	Rod No.	With inline ports(same position)			With ports in different positions		
		All Male Rod Ends	Styles 7A and 9 Rod Ends		All Male Rod Ends	Styles 7A and 9 Rod Ends	
			J Mount	Other Mounts ¹⁵		J Mount	Other Mounts ¹⁵
1.50	1	2.690	2.690	2.690	0.000	0.000	0.000
	2	2.690	2.690	2.690	0.000	0.000	0.000
2.00	1	2.200	2.200	2.200	0.000	0.000	0.000
	2	2.200	2.200	2.200	0.000	0.000	0.500
2.50	1	2.250	2.250	2.250	0.000	0.000	0.000
	2	2.250	2.250	2.250	0.000	0.000	1.000
	3	2.250	2.250	2.250	0.000	0.000	0.500
3.25	1	2.320	2.320	2.320	0.000	0.000	0.000
	2	2.320	2.320	2.320	0.000	0.000	1.000
	3	2.320	2.320	2.320	0.000	0.000	0.500
4.00	1	1.880	1.880	1.880	0.000	0.000	0.000
	2	1.880	1.880	2.000	0.000	1.000	2.000
	3	1.880	1.880	1.880	0.000	0.000	0.750
5.00	1	1.820	1.820	1.820	0.000	0.000	0.500
	2	1.820	1.820	2.250	0.000	1.000	2.250
	3	1.820	1.820	1.820	0.000	0.000	1.500
6.00	1	1.750	1.750	1.750	0.000	0.000	1.500
	2	1.750	1.750	3.000	0.000	1.500	3.000
	3	1.750	1.750	2.000	0.000	0.500	2.000
7.00	1	2.000	2.000	2.000	0.000	0.000	2.000
	2	2.000	2.000	4.000	0.000	2.000	4.000
	3	2.000	2.000	3.000	0.000	1.000	3.000
8.00	1	2.000	2.000	2.000	0.000	0.000	2.000
	2	2.000	3.000	5.000	0.000	3.000	5.000
	3	2.000	2.000	3.500	0.000	1.500	3.500

Rod End Dimensions

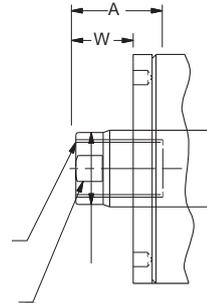
**Thread Style 4
(NFFA Style SM)
Small Male**



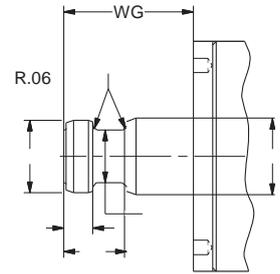
**Thread Style 8
(NFFA Style IM)
Intermediate Male**



**Thread Style 9¹
(NFFA Style SF)
Small Female**



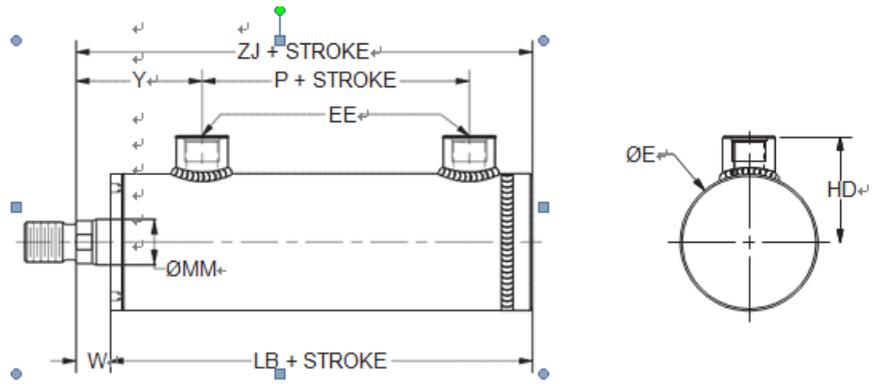
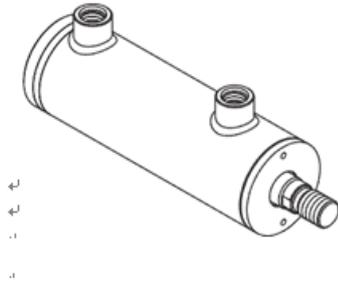
**Style 55²
Flanged Rod End**



Rod End Dimensions

Bore Ø	Rod No.	MM Rod Ø	Thread		A	AD	AE +0.001 -0.001	AF Ø	AM Ø	D	NA	W	WG
			Style 8 CC	Style 4 & 9 KK									
1.50	1 (std)	0.625	1/2-20	7/16-20	0.75	0.63	0.249	0.38	0.57	0.50	0.56	0.56	1.13
	2	1.000	7/8-14	3/4-16	1.13	0.94	0.374	0.69	0.95	0.88	0.94	0.69	1.50
2.00	1 (std)	1.000	7/8-14	3/4-16	1.13	0.94	0.374	0.69	0.95	0.88	0.94	0.69	1.50
	2	1.375	1 1/4-12	1-14	1.63	1.06	0.374	0.88	1.32	1.13	1.31	0.81	1.75
2.50	1 (std)	1.000	7/8-14	3/4-16	1.13	0.94	0.374	0.69	0.95	0.88	0.94	0.69	1.50
	2	1.750	1 1/2-12	1 1/4-12	2.00	1.31	0.499	1.13	1.70	1.50	1.69	0.94	2.00
	3	1.375	1 1/4-12	1-14	1.63	1.06	0.374	0.88	1.32	1.13	1.31	0.81	1.75
3.25	1 (std)	1.375	1 1/4-12	1-14	1.63	1.06	0.374	0.88	1.32	1.13	1.31	0.81	1.75
	2	2.000	1 3/4-12	1 1/2-12	2.25	1.69	0.624	1.38	1.95	1.69	1.94	1.00	2.63
	3	1.750	1 1/2-12	1 1/4-12	2.00	1.31	0.499	1.13	1.70	1.50	1.69	0.94	2.00
4.00	1 (std)	1.750	1 1/2-12	1 1/4-12	2.00	1.31	0.499	1.13	1.70	1.50	1.69	0.94	2.00
	2	2.500	2 1/4-12	1 7/8-12	3.00	1.94	0.749	1.75	2.45	2.06	2.38	1.06	3.25
	3	2.000	1 3/4-12	1 1/2-12	2.25	1.69	0.624	1.38	1.95	1.69	1.94	1.00	2.63
5.00	1 (std)	2.000	1 3/4-12	1 1/2-12	2.25	1.69	0.624	1.38	1.95	1.69	1.94	1.00	2.63
	2	3.500	3 1/4-12	2 1/2-12	3.50	2.69	0.999	2.50	3.45	3.00	3.38	1.06	4.38
	3	2.500	2 1/4-12	1 7/8-12	3.00	1.94	0.749	1.75	2.45	2.06	2.38	1.06	3.25
6.00	1 (std)	2.500	2 1/4-12	1 7/8-12	3.00	1.94	0.749	1.75	2.45	2.06	2.38	1.06	3.25
	2	4.000	3 3/4-12	3-12	4.00	2.69	0.999	3.00	3.95	3.38	3.88	1.06	4.50
	3	3.000	2 3/4-12	2 1/4-12	3.50	2.44	0.874	2.25	2.95	2.63	2.88	1.06	3.63
7.00	1 (std)	3.000	2 3/4-12	2 1/4-12	3.50	2.44	0.874	2.25	2.95	2.63	2.88	1.06	3.63
	2	5.000	4 3/4-12	3 1/2-12	5.00	3.19	1.499	3.88	4.95	_3	4.88	1.19	5.38
	3	4.000	3 3/4-12	3-12	4.00	2.69	0.999	3.00	3.95	3.38	3.88	1.06	4.50
8.00	1 (std)	3.500	3 1/4-12	2 1/2-12	3.50	2.69	0.999	2.50	3.45	3.00	3.38	1.06	4.38
	2	5.500	5 1/4-12	4-12	5.50	3.94	1.874	4.38	5.45	_3	5.38	1.19	6.25
	3	4.500	4 1/4-12	3 1/4-12	4.50	3.19	1.499	3.50	4.45	_3	4.38	1.19	5.25

Basic, No Mount
Style T



Bore Ø	Rod No.	E Ø	EE		HD	Add Stroke	
			NPTF ¹	SAE ²		LB	P
1.50	1 (std)	1.88	3/8	6	1.60	3.56	1.19
	2	1.88	3/8	6	1.60	3.94	1.19
2.00	-	2.38	1/2	8	2.04	4.81	1.93
2.50	-	3.00	1/2	8	2.37	5.25	1.88
3.25	-	3.88	3/4	12	2.81	6.00	2.06
4.00	-	4.61	3/4	12	3.20	6.50	2.50
5.00	-	5.75	3/4	12	3.79	7.12	2.56
6.00	-	7.00	1	16	4.58	8.37	3.00
7.00	-	8.00	1 1/4	20	5.11	9.00	3.25
8.00	-	9.25	1 1/4	20	5.76	9.50	3.25
Bore Ø	Rod No.	MM Rod Ø	W	Y	Add Stroke ZJ		
1.50	1 (std)	0.625	0.56	2.12	4.12		
	2	1.000	0.69	2.62	4.63		
2.00	1 (std)	1.000	0.69	2.51	5.50		
	2	1.375	0.81	2.63	5.62		
2.50	1 (std)	1.000	0.69	2.69	5.94		
	2	1.750	0.94	2.94	6.19		
	3	1.375	0.81	2.81	6.06		
3.25	1 (std)	1.375	0.81	3.07	6.81		
	2	2.000	1.00	3.25	7.00		
	3	1.750	0.94	3.19	6.94		
4.00	1 (std)	1.750	0.94	3.39	7.44		
	2	2.500	1.06	3.52	7.56		
	3	2.000	1.00	3.46	7.50		
5.00	1 (std)	2.000	1.00	3.70	8.12		
	2	3.500	1.06	3.76	8.18		
	3	2.500	1.06	3.76	8.18		
6.00	1 (std)	2.500	1.06	4.24	9.43		
	2	4.000	1.06	4.24	9.43		
	3	3.000	1.06	4.24	9.43		
7.00	1 (std)	3.000	1.06	4.25	10.06		
	2	5.000	1.19	4.38	10.19		
	3	4.000	1.06	4.25	10.06		
8.00	1 (std)	3.500	1.06	4.44	10.56		
	2	5.500	1.19	4.56	10.68		
	3	4.500	1.19	4.56	10.68		

Cap Fixed Eye Mounting
Style B

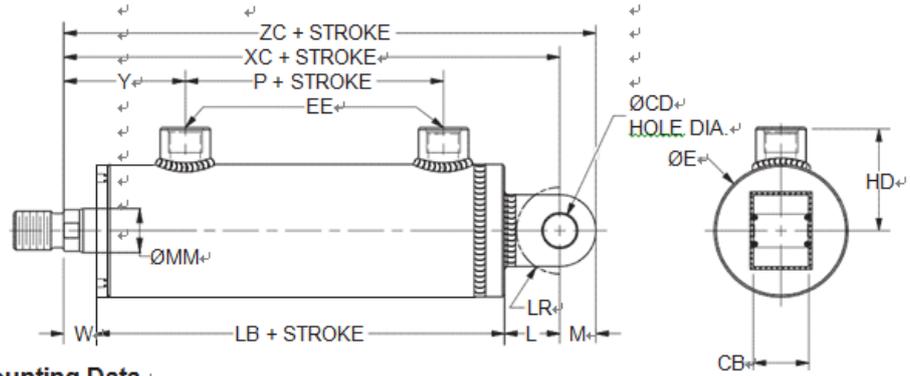
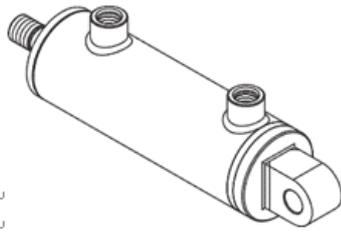


Table 1 – Dimensional and Mounting Data

Bore Ø	Rod No.	CB	CD Ø +0.02 -0.00	E Ø	EE		HD	L	LR min.	M	Add Stroke	
					NPTF ¹	SAE ²					LB	P
1.50	1 (std)	0.75	.502	1.88	3/8	6	1.60	0.75	0.56	0.50	3.56	1.19
	2	0.75	.502	1.88	3/8	6	1.60	0.75	0.56	0.50	3.94	1.19
2.00	–	1.25	.752	2.38	1/2	8	2.04	1.25	1.06	0.75	4.81	1.93
2.50	–	1.25	.752	3.00	1/2	8	2.37	1.25	0.88	0.75	5.25	1.88
3.25	–	1.50	1.002	3.88	3/4	12	2.81	1.50	1.13	1.00	6.00	2.06
4.00	–	2.00	1.377	4.61	3/4	12	3.20	2.13	1.50	1.38	6.50	2.50
5.00	–	2.50	1.752	5.75	3/4	12	3.79	2.25	1.88	1.75	7.12	2.56
6.00	–	2.50	2.002	7.00	1	16	4.58	2.50	2.13	2.00	8.37	3.00
7.00	–	3.00	2.502	8.00	1 1/4	20	5.11	3.00	2.63	2.50	9.00	3.25
8.00	–	3.00	3.002	9.25	1 1/4	20	5.76	3.25	3.00	2.75	9.50	3.25

Table 2 – Dimensional and Mounting Data

Bore Ø	Rod No.	MM Rod Ø	W	Y	Add Stroke	
					XC	ZC
1.50	1 (std)	0.625	0.56	2.12	4.87	5.37
	2	1.000	0.69	2.62	5.38	5.88
2.00	1 (std)	1.000	0.69	2.51	6.75	7.50
	2	1.375	0.81	2.63	6.87	7.62
2.50	1 (std)	1.000	0.69	2.69	7.19	7.94
	2	1.750	0.94	2.94	7.44	8.19
	3	1.375	0.81	2.81	7.31	8.06
3.25	1 (std)	1.375	0.81	3.07	8.31	9.31
	2	2.000	1.00	3.25	8.50	9.50
	3	1.750	0.94	3.19	8.44	9.44
4.00	1 (std)	1.750	0.94	3.39	9.56	10.94
	2	2.500	1.06	3.52	9.69	11.06
	3	2.000	1.00	3.46	9.62	11.00
5.00	1 (std)	2.000	1.00	3.70	10.37	12.12
	2	3.500	1.06	3.76	10.43	12.18
	3	2.500	1.06	3.76	10.43	12.18
6.00	1 (std)	2.500	1.06	4.24	11.93	13.93
	2	4.000	1.06	4.24	11.93	13.93
	3	3.000	1.06	4.24	11.93	13.93
7.00	1 (std)	3.000	1.06	4.25	13.06	15.56
	2	5.000	1.19	4.38	13.19	15.69
	3	4.000	1.06	4.25	13.06	15.56
8.00	1 (std)	3.500	1.06	4.44	13.81	16.56
	2	5.500	1.19	4.56	13.93	16.68
	3	4.500	1.19	4.56	13.93	16.68

Cap Fixed Clevis Mounting
Style BB

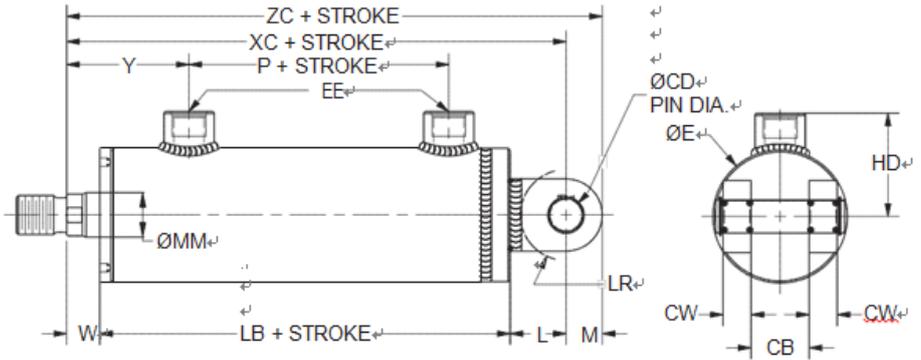
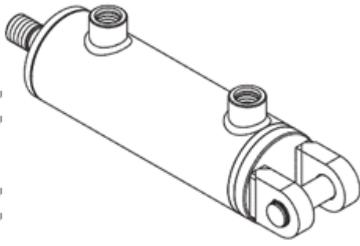
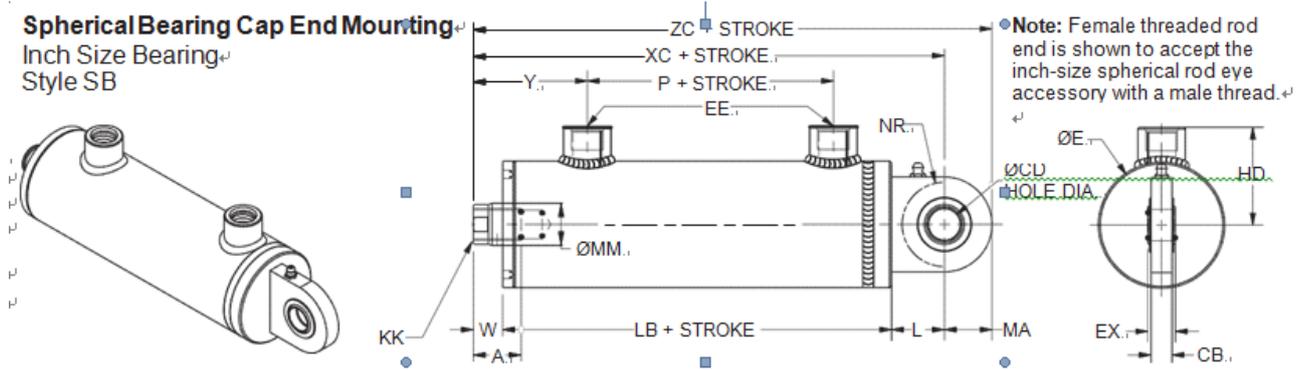


Table 1 – Dimensional and Mounting Data

Bore Ø	Rod No.	CB min.	CD ¹ Ø +.000 -.002	CW	E Ø	E		HD	L	LR min.	M	Add Stroke	
						NPTF ²	SAE ³					LB	P
1.50	1 (std)	.765	.501	0.50	1.88	3/8	6	1.60	0.75	0.56	0.50	3.56	1.19
	2	.765	.501	0.50	1.88	3/8	6	1.60	0.75	0.56	0.50	3.94	1.19
2.00	-	1.077	.751	0.50	2.38	1/2	8	2.04	1.25	0.88	0.75	4.81	1.93
2.50	-	1.265	.751	0.63	3.00	1/2	8	2.37	1.25	0.88	0.75	5.25	1.88
3.25	-	1.515	1.001	0.75	3.88	3/4	12	2.81	1.50	1.13	1.00	6.00	2.06
4.00	-	2.015	1.376	1.00	4.61	3/4	12	3.20	2.13	1.81	1.38	6.50	2.50
5.00	-	2.515	1.751	1.25	5.75	3/4	12	3.79	2.25	1.88	1.75	7.12	2.56
6.00	-	2.515	2.001	1.25	7.00	1	16	4.58	2.50	2.13	2.00	8.37	3.00
7.00	-	3.015	2.501	1.50	8.00	1 1/4	20	5.11	3.00	2.63	2.50	9.00	3.25
8.00	-	3.015	3.001	1.50	9.25	1 1/4	20	5.76	3.25	3.00	2.75	9.50	3.25

Table 2 – Dimensional and Mounting Data

Bore Ø	Rod No.	MM Rod Ø	W	Y	Add Stroke	
					XC	ZC
1.50	1 (std)	0.625	0.56	2.12	4.87	5.37
	2	1.000	0.69	2.62	5.38	5.88
2.00	1 (std)	1.000	0.69	2.51	6.75	7.50
	2	1.375	0.81	2.63	6.87	7.62
2.50	1 (std)	1.000	0.69	2.69	7.19	7.94
	2	1.750	0.94	2.94	7.44	8.19
	3	1.375	0.81	2.81	7.31	8.06
3.25	1 (std)	1.375	0.81	3.07	8.31	9.31
	2	2.000	1.00	3.25	8.50	9.50
	3	1.750	0.94	3.19	8.44	9.44
4.00	1 (std)	1.750	0.94	3.39	9.56	10.94
	2	2.500	1.06	3.52	9.69	11.06
	3	2.000	1.00	3.46	9.62	11.00
5.00	1 (std)	2.000	1.00	3.70	10.37	12.12
	2	3.500	1.06	3.76	10.43	12.18
	3	2.500	1.06	3.76	10.43	12.18
6.00	1 (std)	2.500	1.06	4.24	11.93	13.93
	2	4.000	1.06	4.24	11.93	13.93
	3	3.000	1.06	4.24	11.93	13.93
7.00	1 (std)	3.000	1.06	4.25	13.06	15.56
	2	5.000	1.19	4.38	13.19	15.69
	3	4.000	1.06	4.25	13.06	15.56
8.00	1 (std)	3.500	1.06	4.44	13.81	16.56
	2	5.500	1.19	4.56	13.93	16.68
	3	4.500	1.19	4.56	13.93	16.68



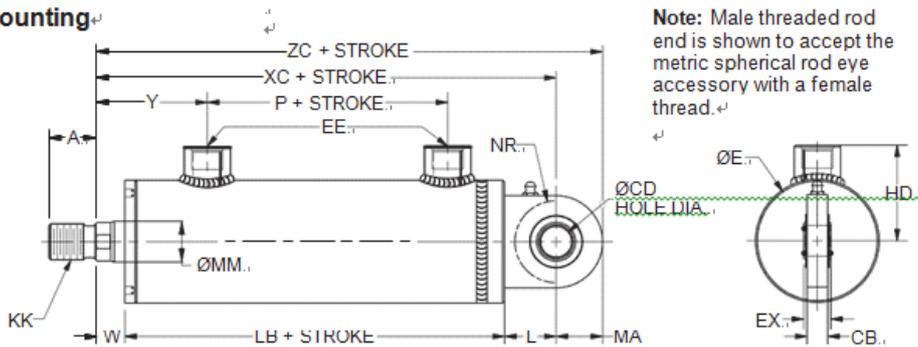
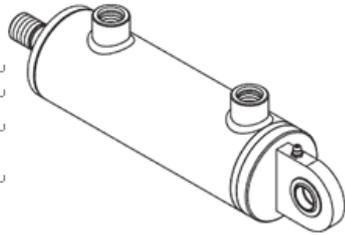
Note: Standard spherical bearing is maintenance-free (sealed) for hole diameters larger than 0.5000".

Table 1 — Dimensional and Mounting Data

Bore Ø	Rod No.	MM Rod Ø	Thread		A	CB	CD ² Ø +0.0000 -0.0005	EX	L	MA	NR min.	W	Y	Add Stroke			
			Style 9A KK ¹	Style 7A KK ¹										XC	ZC		
1.50	1 (std)	0.625	7/16-20	—	0.75	0.38	0.5000	0.44	0.75	0.75	0.56	0.56	2.12	4.88	6.00		
	2	1.000	—	7/16-20	0.75									0.69	2.62	5.38	6.13
2.00	1 (std)	1.000	3/4-16	—	1.13	0.56	0.7500	0.66	1.25	1.00	1.06	0.69	2.51	6.75	7.75		
	2	1.375	—	3/4-16	1.13									0.81	2.63	6.87	7.87
2.50	1 (std)	1.000	3/4-16	—	1.13	0.56	0.7500	0.66	1.25	1.00	1.06	0.69	2.69	7.19	8.19		
	2	1.750	—	3/4-16	1.13									0.94	2.94	7.44	8.44
	3	1.375	—	3/4-16	1.13									0.81	2.81	7.31	8.31
3.25	1 (std)	1.375	1-14	—	1.63	0.75	1.0000	0.88	1.50	1.25	1.31	0.81	3.07	8.31	9.56		
	2	2.000	—	1-14	1.63									1.00	3.25	8.50	9.75
	3	1.750	—	1-14	1.63									0.94	3.19	8.44	9.69
4.00	1 (std)	1.750	1 1/4-12	—	2.00	1.00	1.3750	1.19	2.13	1.88	1.88	0.94	3.39	9.56	11.44		
	2	2.500	—	1 1/4-12	2.00									1.06	3.52	9.69	11.56
	3	2.000	—	1 1/4-12	2.00									1.00	3.46	9.62	11.50
5.00	1 (std)	2.000	1 1/2-12	—	2.25	1.25	1.7500	1.53	2.25	2.50	1.94	1.00	3.70	10.37	12.87		
	2	3.500	—	1 1/2-12	2.25									1.06	3.76	10.43	12.93
	3	2.500	—	1 1/2-12	2.25									1.06	3.76	10.43	12.93
6.00	1 (std)	2.500	1 7/8-12	—	3.00	1.50	2.0000	1.75	2.50	2.50	2.19	1.06	4.24	11.93	14.43		
	2	4.000	—	1 7/8-12	3.00									1.06	4.24	11.93	14.43
	3	3.000	—	1 7/8-12	3.00									1.06	4.24	11.93	14.43
7.00	See SBM Mount on the next page																

Spherical Bearing Cap End Mounting

Metric Size Bearing
Style SBM



Note: Male threaded rod end is shown to accept the metric spherical rod eye accessory with a female thread.

Note: Standard spherical bearing is maintenance-free (sealed).

Table 1 — Dimensional and Mounting Data

Bore Ø	Rod No.	MM Rod Ø	A ² Thread Length (mm)	KK ² Thread Style 7M Male	W	Y	Add Stroke		Dimensions at cap end (mm)					
							XC	ZC	CB (mm)	CD ³ Ø (mm)	EX (mm)	L (mm)	MA (mm)	NR min (mm)
1.50	1 (std)	0.625	0.71 (18)	M14X1.5	0.56	2.12	5.11	6.25	0.51 (13)	0.7874 (-0.005 -0.012) (20)	0.63 (16)	0.98 (25)	1.14 (29)	0.87 (22)
	2	1.000	0.71 (18)	M14X1.5	0.69	2.62	5.61	6.75						
2.00	1 (std)	1.000	0.87 (22)	M16X1.5	0.69	2.51	6.72	8.02	0.67 (17)	0.9843 (-0.005 -0.012) (25)	0.79 (20)	1.22 (31)	1.30 (33)	1.10 (28)
	2	1.375	0.87 (22)	M16X1.5	0.81	2.63	6.84	8.14						
2.50	1 (std)	1.000	1.10 (28)	M20X1.5	0.69	2.69	7.43	9.01	0.75 (19)	1.1811 (-0.005 -0.012) (30)	0.87 (22)	1.50 (38)	1.57 (40)	1.38 (35)
	2	1.750	1.10 (28)	M20X1.5	0.94	2.94	7.68	9.26						
	3	1.375	1.10 (28)	M20X1.5	0.81	2.81	7.56	9.13						
3.25	1 (std)	1.375	1.42 (36)	M27X2	0.81	3.07	8.70	10.67	0.91 (23)	1.5748 (-0.005 -0.012) (40)	1.10 (28)	1.89 (48)	1.97 (50)	1.73 (44)
	2	2.000	1.42 (36)	M27X2	1.00	3.25	8.89	10.86						
	3	1.750	1.42 (36)	M27X2	0.94	3.19	8.83	10.80						
4.00	1 (std)	1.750	1.77 (45)	M33X2	0.94	3.39	9.72	12.16	1.18 (30)	1.9685 (-0.005 -0.012) (50)	1.38 (35)	2.28 (58)	2.44 (62)	2.13 (54)
	2	2.500	1.77 (45)	M33X2	1.06	3.52	9.84	12.28						
	3	2.000	1.77 (45)	M33X2	1.00	3.46	9.78	12.22						
5.00	1 (std)	2.000	2.20 (56)	M42X2	1.00	3.70	10.95	14.10	1.50 (38)	2.3622 (-0.006 -0.015) (60)	1.73 (44)	2.83 (72)	3.15 (80)	2.68 (68)
	2	3.500	2.20 (56)	M42X2	1.06	3.76	11.01	14.16						
	3	2.500	2.20 (56)	M42X2	1.06	3.76	11.01	14.16						
6.00	1 (std)	2.500	2.48 (63)	M48X2	1.06	4.24	13.05	16.99	1.85 (47)	3.1496 (-0.006 -0.015) (80)	2.17 (55)	3.62 (92)	3.94 (100)	3.46 (88)
	2	4.000	2.48 (63)	M48X2	1.06	4.24	13.05	16.99						
	3	3.000	2.48 (63)	M48X2	1.06	4.24	13.05	16.99						
7.00 ¹	1 (std)	3.000	2.48 (63)	M48X2	1.06	4.25	13.68	17.62	1.85 (47)	3.1496 (-0.006 -0.015) (80)	2.17 (55)	3.62 (92)	3.94 (100)	3.46 (88)
	2	5.000	2.48 (63)	M48X2	1.19	4.38	13.81	17.75						
	3	4.000	2.48 (63)	M48X2	1.06	4.25	13.68	17.62						
8.00	1 (std)	3.500	3.35 (85)	M64X3	1.06	4.44	15.12	19.85	2.24 (57)	3.9370 (-0.008 -0.020) (100)	2.76 (70)	4.57 (116)	4.72 (120)	4.37 (111)
	2	5.500	3.35 (85)	M64X3	1.19	4.56	15.25	19.97						
	3	4.500	3.35 (85)	M64X3	1.19	4.56	15.25	19.97						

Crosstube Cap End Mounting
Style TT

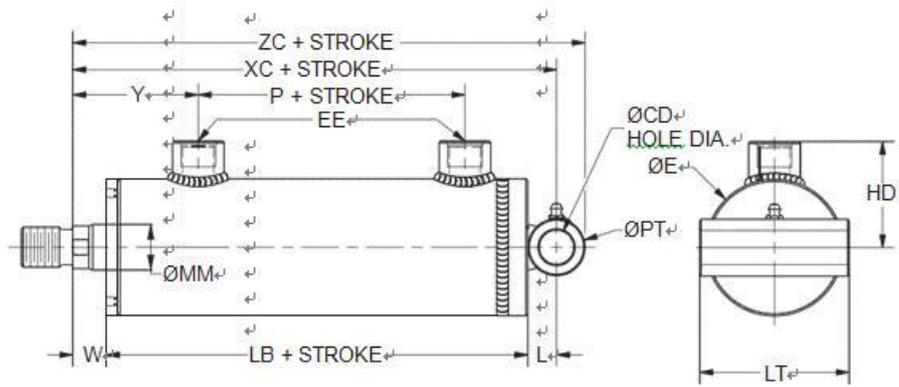
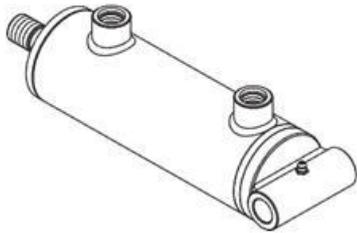


Table 1 – Dimensional and Mounting Data

Bore Ø	Rod No.	CD Ø +0.02 -0.00	E Ø	E		HD	L	LT	PT Ø	Add Stroke	
				NPTF ¹	SAE ²					LB	P
1.50	1 (std)	0.752	1.88	3/8	6	1.60	0.63	2.38	1.25	3.56	1.19
	2	0.752	1.88	3/8	6	1.60	0.63	2.38	1.25	3.94	1.19
2.00	–	0.752	2.38	1/2	8	2.04	0.63	2.88	1.25	4.81	1.93
2.50	–	1.002	3.00	1/2	8	2.37	0.75	3.50	1.50	5.25	1.88
3.25	–	1.252	3.88	3/4	12	2.81	0.94	4.38	1.88	6.00	2.06
4.00	–	1.377	4.61	3/4	12	3.20	1.00	5.13	2.00	6.50	2.50
5.00	–	1.752	5.75	3/4	12	3.79	1.38	6.25	2.75	7.12	2.56
6.00	–	2.002	7.00	1	16	4.58	1.50	7.50	3.00	8.37	3.00
7.00	–	2.502	8.00	1 1/4	20	5.11	1.88	8.50	3.75	9.00	3.25
8.00	–	3.002	9.25	1 1/4	20	5.76	2.00	9.75	4.00	9.50	3.25

Bore Ø	Rod No.	MM Rod Ø	W	Y	Add Stroke	
					XC	ZC
1.50	1 (std)	0.625	0.56	2.12	4.75	5.37
	2	1.000	0.69	2.62	5.25	5.88
2.00	1 (std)	1.000	0.69	2.51	6.13	6.75
	2	1.375	0.81	2.63	6.25	6.87
2.50	1 (std)	1.000	0.69	2.69	6.69	7.44
	2	1.750	0.94	2.94	6.94	7.69
	3	1.375	0.81	2.81	6.81	7.56
3.25	1 (std)	1.375	0.81	3.07	7.75	8.69
	2	2.000	1.00	3.25	7.94	8.88
	3	1.750	0.94	3.19	7.88	8.81
4.00	1 (std)	1.750	0.94	3.39	8.44	9.44
	2	2.500	1.06	3.52	8.56	9.56
	3	2.000	1.00	3.46	8.50	9.50
5.00	1 (std)	2.000	1.00	3.70	9.49	10.87
	2	3.500	1.06	3.76	9.55	10.93
	3	2.500	1.06	3.76	9.55	10.93
6.00	1 (std)	2.500	1.06	4.24	10.93	12.43
	2	4.000	1.06	4.24	10.93	12.43
	3	3.000	1.06	4.24	10.93	12.43
7.00	1 (std)	3.000	1.06	4.25	11.94	13.81
	2	5.000	1.19	4.38	12.06	13.94
	3	4.000	1.06	4.25	11.94	13.81
8.00	1 (std)	3.500	1.06	4.44	12.56	14.56
	2	5.500	1.19	4.56	12.68	14.68
	3	4.500	1.19	4.56	12.68	14.68

Intermediate Fixed Trunnion Mounting
Style DD

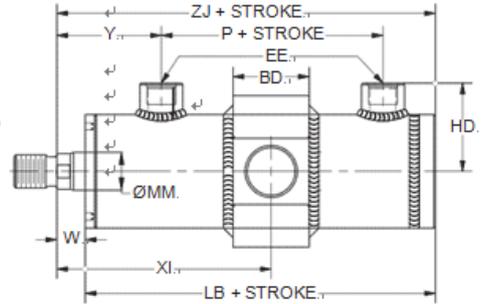
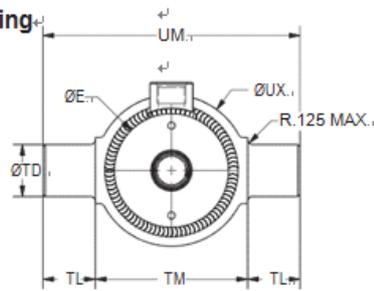
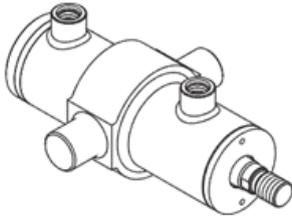


Table 1 – Dimensional and Mounting Data

Bore Ø	Rod No.	BD	E Ø	E		HD	TD Ø +0.001 -0.001	TL	TM	UM	UX Ø	Add Stroke	
				NPTF ¹	SAE ²							LB	P
1.50	1 (std)	1.38	1.88	3/8	6	1.60	1.000	1.00	3.00	5.00	3.00	3.56	1.19
	2	1.38	1.88	3/8	6	1.60	1.000	1.00	3.00	5.00	3.00	3.94	1.19
2.00	–	1.75	2.38	1/2	8	2.04	1.375	1.38	3.50	6.25	3.50	4.81	1.93
2.50	–	1.75	3.00	1/2	8	2.37	1.375	1.38	4.00	6.75	4.00	5.25	1.88
3.25	–	2.25	3.88	3/4	12	2.81	1.750	1.75	5.00	8.50	5.00	6.00	2.06
4.00	–	2.50	4.61	3/4	12	3.20	2.000	1.75	5.50	9.00	5.50	6.50	2.50
5.00	–	3.00	5.75	3/4	12	3.79	2.500	1.75	7.00	10.50	7.00	7.12	2.56
6.00	–	3.50	7.00	1	16	4.58	3.000	2.00	8.50	12.50	8.50	8.37	3.00
7.00	–	4.00	8.00	1 1/4	20	5.11	3.500 ³	2.50	9.75	14.75	9.75	9.00	3.25
8.00	–	4.50	9.25	1 1/4	20	5.76	4.000 ³	3.00	11.00	17.00	11.00	9.50	3.25
Bore Ø	Rod No.	MM Rod Ø	W	Y	Min. Stroke ⁴	Min. XI ⁵	Add Stroke						
							Max. XI ⁶	ZJ					
1.50	1 (std)	0.625	0.56	2.12	7.06	6.25	-0.81	4.13					
	2	1.000	0.69	2.62	7.06	6.75	-0.31	4.63					
2.00	1 (std)	1.000	0.69	2.51	6.95	6.95	0.00	5.50					
	2	1.375	0.81	2.63	6.95	7.07	0.12	5.62					
2.50	1 (std)	1.000	0.69	2.69	7.00	7.13	0.13	5.94					
	2	1.750	0.94	2.94	7.00	7.38	0.38	6.19					
	3	1.375	0.81	2.81	7.00	7.25	0.25	6.06					
3.25	1 (std)	1.375	0.81	3.07	7.57	7.88	0.31	6.81					
	2	2.000	1.00	3.25	7.57	8.07	0.50	7.00					
	3	1.750	0.94	3.19	7.57	8.00	0.44	6.94					
4.00	1 (std)	1.750	0.94	3.39	7.38	8.33	0.96	7.44					
	2	2.500	1.06	3.52	7.38	8.45	1.08	7.56					
	3	2.000	1.00	3.46	7.38	8.39	1.02	7.50					
5.00	1 (std)	2.000	1.00	3.70	7.82	8.89	1.07	8.12					
	2	3.500	1.06	3.76	7.82	8.95	1.13	8.18					
	3	2.500	1.06	3.76	7.82	8.95	1.13	8.18					
6.00	1 (std)	2.500	1.06	4.24	8.25	9.87	1.62	9.43					
	2	4.000	1.06	4.24	8.25	9.87	1.62	9.43					
	3	3.000	1.06	4.24	8.25	9.87	1.62	9.43					
7.00	1 (std)	3.000	1.06	4.25	9.00	10.38	1.38	10.06					
	2	5.000	1.19	4.38	9.00	10.51	1.51	10.19					
	3	4.000	1.06	4.25	9.00	10.38	1.38	10.06					
8.00	1 (std)	3.500	1.06	4.44	9.50	10.81	1.31	10.56					
	2	5.500	1.19	4.56	9.50	10.94	1.44	10.68					
	3	4.500	1.19	4.56	9.50	10.94	1.44	10.68					

Round Head Flange Mounting¹.
Style J⁺

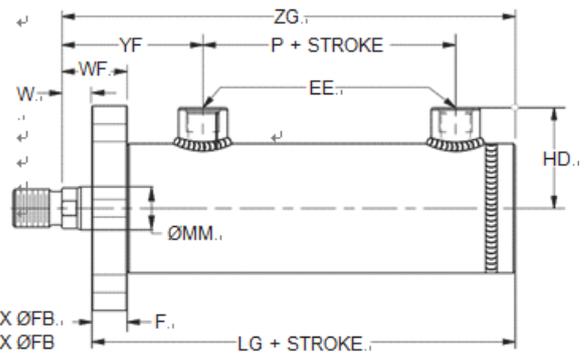
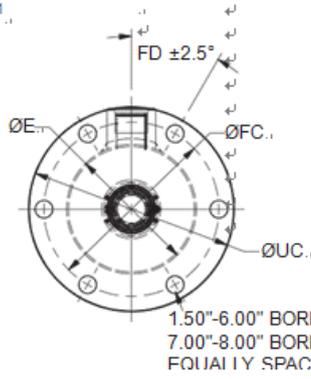
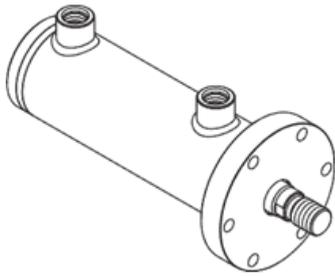


Table 1 – Dimensional and Mounting Data

Bore Ø	E Ø	E		F	F B Ø	F C Ø	FD	HD	U C Ø	Add Stroke	
		NPTF ²	SAE ³							LG	P
1.50	1.88	3/8	6	0.63	0.28	2.75	30°	1.60	3.25	3.94	1.19
2.00	2.38	1/2	8	0.69	0.28	3.25	30°	2.04	3.75	5.25	1.93
2.50	3.00	1/2	8	0.81	0.41	4.00	30°	2.37	4.75	5.81	1.88
3.25	3.88	3/4	12	1.00	0.53	5.25	30°	2.81	6.13	6.75	2.06
4.00	4.61	3/4	12	1.25	0.66	6.25	30°	3.20	7.63	7.50	2.50
5.00	5.75	3/4	12	1.63	0.79	7.75	30°	3.79	9.00	8.43	2.56
6.00	7.00	1	16	1.88	0.91	9.38	30°	4.58	10.88	9.87	3.00
7.00	8.00	1 1/4	20	2.38	1.04	10.50	22.5°	5.11	12.25	11.00	3.25
8.00	9.25	1 1/4	20	2.50	1.19	12.13	22.5°	5.76	14.00	11.50	3.25

Bore Ø	Rod No.	MM Rod Ø	W	WF	YF	Add Stroke
						ZG
1.50	1 (std)	0.625	0.56	1.19	2.50	4.50
	2	1.000	0.69	1.32	2.62	4.63
2.00	1 (std)	1.000	0.69	1.38	2.95	5.94
	2	1.375	0.81	1.50	3.07	6.06
2.50	1 (std)	1.000	0.69	1.50	3.25	6.50
	2	1.750	0.94	1.75	3.50	6.75
	3	1.375	0.81	1.62	3.37	6.62
3.25	1 (std)	1.375	0.81	1.81	3.82	7.56
	2	2.000	1.00	2.00	4.00	7.75
	3	1.750	0.94	1.94	3.94	7.69
4.00	1 (std)	1.750	0.94	2.19	4.39	8.44
	2	2.500	1.06	2.31	4.52	8.56
	3	2.000	1.00	2.25	4.46	8.50
5.00	1 (std)	2.000	1.00	2.63	5.01	9.43
	2	3.500	1.06	2.69	5.08	9.49
	3	2.500	1.06	2.69	5.08	9.49
6.00	1 (std)	2.500	1.06	2.94	5.74	10.93
	2	4.000	1.06	2.94	5.74	10.93
	3	3.000	1.06	2.94	5.74	10.93
7.00	1 (std)	3.000	1.06	3.44	6.25	12.06
	2	5.000	1.19	3.44	6.38	12.19
	3	4.000	1.06	3.44	6.25	12.06
8.00	1 (std)	3.500	1.06	3.56	6.44	12.56
	2	5.500	1.19	3.69	6.56	12.68
	3	4.500	1.19	3.69	6.56	12.68

Round Cap Flange Mounting
Style H

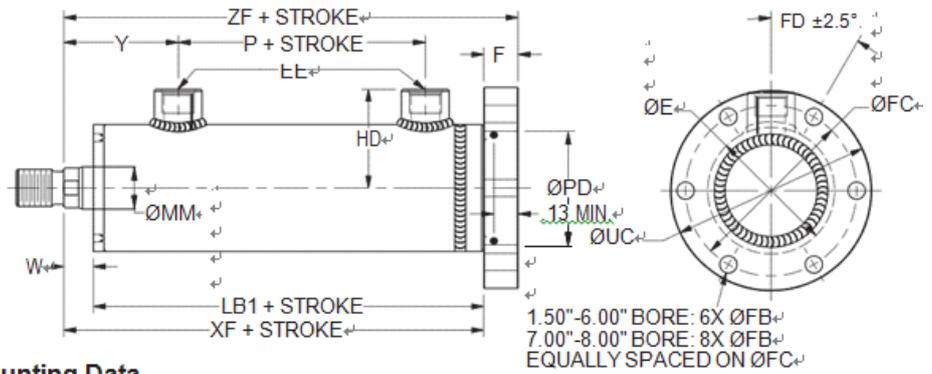
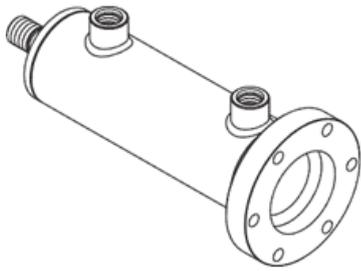


Table 1 – Dimensional and Mounting Data.

Bore Ø	Rod No.	E Ø	EE		F	FB Ø	FC Ø	FD	HD	PD ³ Ø	UC Ø	Add Stroke	
			NPTF ¹	SAE ²								LB1	P
1.50	1 (std)	1.88	3/8	6	0.63	0.28	2.75	30°	1.60	1.50	3.25	3.44	1.19
	2	1.88	3/8	6	0.63	0.28	2.75	30°	1.60	1.50	3.25	3.81	1.19
2.00	–	2.38	1/2	8	0.69	0.28	3.25	30°	2.04	2.00	3.75	4.69	1.93
2.50	–	3.00	1/2	8	0.81	0.41	4.00	30°	2.37	2.50	4.75	5.13	1.88
3.25	–	3.88	3/4	12	1.00	0.53	5.25	30°	2.81	3.25	6.13	5.88	2.06
4.00	–	4.61	3/4	12	1.25	0.66	6.25	30°	3.20	4.00	7.63	6.36	2.50
5.00	–	5.75	3/4	12	1.63	0.79	7.75	30°	3.79	5.00	9.00	6.99	2.56
6.00	–	7.00	1	16	1.88	0.91	9.38	30°	4.58	6.00	10.88	8.25	3.00
7.00	–	8.00	1 1/4	20	2.38	1.04	10.50	22.5°	5.11	7.00	12.25	8.88	3.25
8.00	–	9.25	1 1/4	20	2.50	1.19	12.13	22.5°	5.76	8.00	14.00	9.37	3.25

Bore Ø	Rod No.	MM Rod Ø	W	Y	Add Stroke	
					XF	ZF
1.50	1 (std)	0.625	0.56	2.12	4.00	4.62
	2	1.000	0.69	2.62	4.50	5.13
2.00	1 (std)	1.000	0.69	2.51	5.38	6.06
	2	1.375	0.81	2.63	5.50	6.18
2.50	1 (std)	1.000	0.69	2.69	5.81	6.63
	2	1.750	0.94	2.94	6.06	6.88
	3	1.375	0.81	2.81	5.94	6.75
3.25	1 (std)	1.375	0.81	3.07	6.69	7.69
	2	2.000	1.00	3.25	6.88	7.88
	3	1.750	0.94	3.19	6.81	7.81
4.00	1 (std)	1.750	0.94	3.39	7.31	8.56
	2	2.500	1.06	3.52	7.44	8.69
	3	2.000	1.00	3.46	7.37	8.62
5.00	1 (std)	2.000	1.00	3.70	7.99	9.62
	2	3.500	1.06	3.76	8.05	9.68
	3	2.500	1.06	3.76	8.05	9.68
6.00	1 (std)	2.500	1.06	4.24	9.31	11.18
	2	4.000	1.06	4.24	9.31	11.18
	3	3.000	1.06	4.24	9.31	11.18
7.00	1 (std)	3.000	1.06	4.25	9.94	12.31
	2	5.000	1.19	4.38	10.06	12.44
	3	4.000	1.06	4.25	9.94	12.31
8.00	1 (std)	3.500	1.06	4.44	10.43	12.94
	2	5.500	1.19	4.56	10.56	13.06

Double Rod Cylinder
Style KT

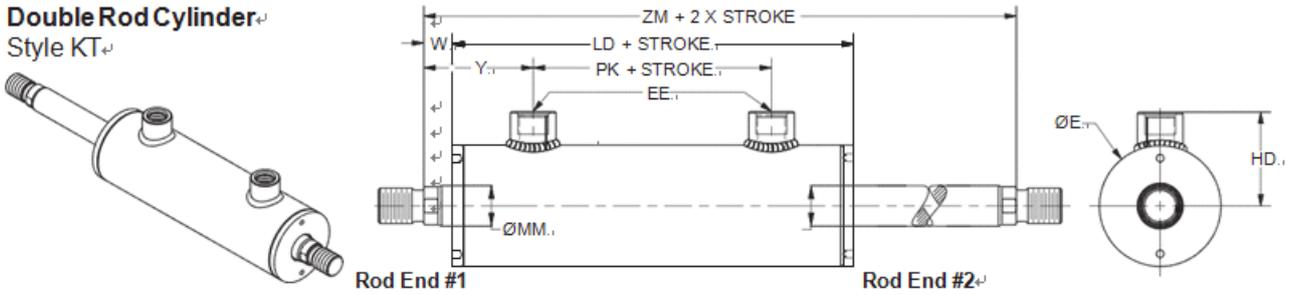
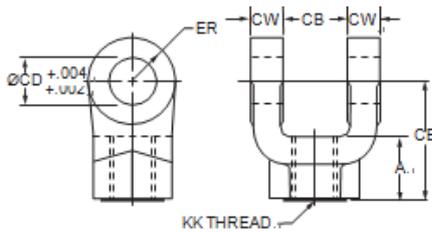


Table 1 – Dimensional and Mounting Data

Table 1 – Dimensional and Mounting Data

Bore Ø	Rod No.	MM Rod Ø	EE		W	Y	YF J Mount	Min. Stroke T, J Mount	Min. Stroke DD Mount	Add Stroke			Add 2X Stroke	
			NPTF	SAE						LD	LGK	PK	ZM	ZM (J)
1.50	1 (std)	0.625	3/8	6	0.56	2.12	2.50	2.57	7.06	4.34	4.71	1.22	5.48	5.85
	2	1.000	3/8	6	0.69	2.62	2.62	2.57	7.06	5.09	5.09	1.22	6.48	6.48
2.00	1 (std)	1.000	1/2	8	0.69	2.51	2.95	1.25	6.94	5.40	5.83	1.76	6.79	7.23
	2	1.375	1/2	8	0.81	2.63	3.07	1.27	6.94	5.40	5.83	1.76	7.04	7.48
2.50	1 (std)	1.000	1/2	8	0.69	2.69	3.25	1.13	7.00	5.90	6.46	1.90	7.29	7.85
	2	1.750	1/2	8	0.94	2.94	3.50	1.13	7.00	5.90	6.46	1.90	7.79	8.35
	3	1.375	1/2	8	0.81	2.81	3.37	1.13	7.00	5.90	6.46	1.90	7.54	8.10
3.25	1 (std)	1.375	3/4	12	0.81	3.07	3.82	1.00	7.56	6.52	7.27	2.02	8.16	8.91
	2	2.000	3/4	12	1.00	3.25	4.00	1.00	7.56	6.52	7.27	2.02	8.54	9.29
	3	1.750	3/4	12	0.94	3.19	3.94	1.00	7.56	6.52	7.27	2.02	8.42	9.17
4.00	1 (std)	1.750	3/4	12	0.94	3.39	4.39	0.63	7.38	7.27	8.27	2.35	9.17	10.17
	2	2.500	3/4	12	1.06	3.52	4.52	0.75	7.38	7.27	8.27	2.35	9.41	10.41
	3	2.000	3/4	12	1.00	3.46	4.46	0.75	7.38	7.27	8.27	2.35	9.29	10.29
5.00	1 (std)	2.000	3/4	12	1.00	3.70	5.01	0.51	7.81	7.90	9.21	2.50	9.93	11.24
	2	3.500	3/4	12	1.06	3.76	5.08	0.50	7.81	7.90	9.21	2.50	10.05	11.36
	3	2.500	3/4	12	1.06	3.76	5.08	0.50	7.81	7.90	9.21	2.50	10.05	11.36
6.00	1 (std)	2.500	1	16	1.06	4.24	5.74	0.25	8.25	9.15	10.65	2.79	11.31	12.81
	2	4.000	1	16	1.06	4.24	5.74	0.25	8.25	9.15	10.65	2.79	11.31	12.81
	3	3.000	1	16	1.06	4.24	5.74	0.25	8.25	9.15	10.65	2.79	11.31	12.81
7.00	1 (std)	3.000	1 1/4	20	1.06	4.25	6.25	0.00	9.00	9.54	11.54	3.16	11.68	13.68
	2	5.000	1 1/4	20	1.19	4.38	6.38	0.00	9.00	9.54	11.54	3.16	11.93	13.93
	3	4.000	1 1/4	20	1.06	4.25	6.25	0.00	9.00	9.54	11.54	3.16	11.68	13.68
8.00	1 (std)	3.500	1 1/4	20	1.06	4.44	6.44	0.00	9.50	9.96	11.96	3.21	12.10	14.10
	2	5.500	1 1/4	20	1.19	4.56	6.56	0.00	9.50	9.96	11.96	3.21	12.35	14.35
	3	4.500	1 1/4	20	1.19	4.56	6.56	0.00	9.50	9.96	11.96	3.21	12.35	14.35
Replaces dimension:										LB	LG	P	-	-
On single rod mounting styles:										T ² , J ³ , DD ⁴				

Rod Clevis Dimensions

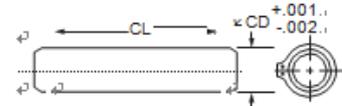


Part Number ¹	Pin ² Ø ²	A ²	CB ²	CD Ø ²	CE ²	CW ²	ER ²	KK Thread ²
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0509400000 ²	0.50 ²	0.75 ²	0.77 ²	0.500 ²	1.50 ²	0.49 ²	0.50 ²	7/16-20 ²
0509410000 ²	0.50 ²	0.75 ²	0.77 ²	0.500 ²	1.50 ²	0.49 ²	0.50 ²	1/2-20 ²
0509420000 ²	0.75 ²	1.13 ²	1.27 ²	0.750 ²	2.13 ²	0.62 ²	0.75 ²	3/4-16 ²
1332840000 ²	0.75 ²	1.13 ²	1.27 ²	0.750 ²	2.38 ²	0.62 ²	0.75 ²	3/4-16 ²
0509430000 ²	1.00 ²	1.63 ²	1.52 ²	1.000 ²	2.94 ²	0.74 ²	1.00 ²	7/8-14 ²
0509440000 ²	1.00 ²	1.63 ²	1.52 ²	1.000 ²	2.94 ²	0.74 ²	1.00 ²	1-14 ²
1332850000 ²	1.00 ²	1.63 ²	1.52 ²	1.000 ²	3.13 ²	0.74 ²	1.00 ²	1-14 ²
0509450000 ²	1.38 ²	1.88 ²	2.04 ²	1.375 ²	3.75 ²	0.99 ²	1.38 ²	1 1/4-12 ²
1332860000 ²	1.38 ²	2.00 ²	2.04 ²	1.375 ²	4.13 ²	0.99 ²	1.38 ²	1 1/4-12 ²
0509460000 ²	1.75 ²	2.25 ²	2.54 ²	1.750 ²	4.50 ²	1.24 ²	1.75 ²	1 1/2-12 ²
0509470000 ²	2.00 ²	3.00 ²	2.54 ²	2.000 ²	5.50 ²	1.24 ²	2.00 ²	1 3/4-12 ²
0509480000 ²	2.00 ²	3.00 ²	2.54 ²	2.000 ²	5.50 ²	1.24 ²	2.00 ²	1 7/8-12 ²
0509490000 ²	2.50 ²	3.50 ²	3.04 ²	2.500 ²	6.50 ²	1.49 ²	2.50 ²	2 1/4-12 ²
0509500000 ²	3.00 ²	3.50 ²	3.04 ²	3.000 ²	6.75 ²	1.49 ²	2.75 ²	2 1/2-12 ²
0509510000 ²	3.00 ²	3.50 ²	3.04 ²	3.000 ²	6.75 ²	1.49 ²	2.75 ²	2 3/4-12 ²
0509520000 ²	3.50 ²	3.50 ²	4.04 ²	3.500 ²	7.75 ²	1.98 ²	3.50 ²	3 1/4-12 ²
0509530000 ²	4.00 ²	4.00 ²	4.54 ²	4.000 ²	8.81 ²	2.23 ²	4.00 ²	3 1/2-12 ²
0509540000 ²	4.00 ²	4.00 ²	4.54 ²	4.000 ²	8.81 ²	2.23 ²	4.00 ²	4-12 ²

¹ Includes Pivot Pin.

² Consult appropriate cylinder rod end dimensions for compatibility...

Pivot Pin Dimensions



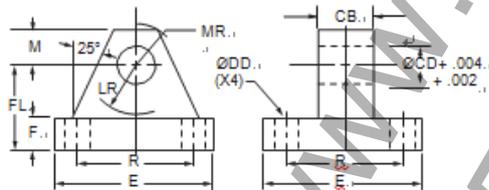
Part Number ¹	CD Ø ²	CL ²
0683680000 ²	0.500 ²	1.88 ²
0683690000 ²	0.750 ²	2.63 ²
0683700000 ²	1.000 ²	3.13 ²
0683710000 ²	1.375 ²	4.13 ²
0683720000 ²	1.750 ²	5.19 ²
0683730000 ²	2.000 ²	5.19 ²
0683740000 ²	2.500 ²	6.19 ²
0683750000 ²	3.000 ²	6.25 ²
0735450000 ²	3.500 ²	8.25 ²
0735470000 ³	4.000 ²	9.00 ²

³ This size supplied with cotter pins...

Note:

1. Pivot Pins are furnished with BB Mount cylinders as standard.
2. Pivot Pins are furnished with (2) Retaining Rings (except as noted).
3. Pivot Pins must be ordered as a separate item if to be used with Knuckles, Rod Clevises, or Clevis Brackets.

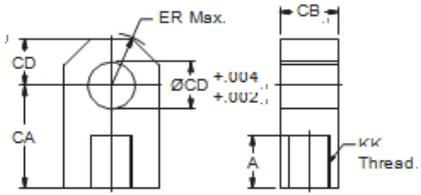
Fabricated Steel Mounting Plate/Eye Bracket Dimensions



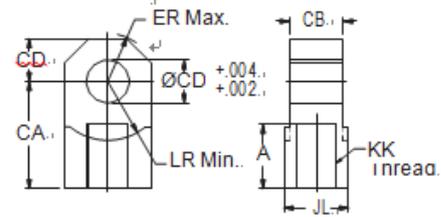
Fabricated Steel ¹ Part Number ¹	Pin ² Ø ²	CB ²	CD Ø ²	DD Ø ²	E ²	F ²	FL ²	LR ²	M ²	MR ²	R ²	For Use With BB Mount Per Bore: ²
0740770000 ²	0.31 ²	0.31 ²	0.313 ²	0.27 ²	2.25 ²	0.38 ²	1.00 ²	0.63 ²	0.38 ²	0.50 ²	1.75 ²	- ²
0691950000 ²	0.50 ²	0.75 ²	0.500 ²	0.41 ²	2.50 ²	0.38 ²	1.13 ²	0.75 ²	0.50 ²	0.56 ²	1.63 ²	1.50 ²
0691960000M ²	0.75 ²	1.06 ²	0.750 ²	0.53 ²	3.50 ²	0.63 ²	1.88 ²	1.25 ²	0.75 ²	0.88 ²	2.55 ²	2.00 ²
0691960000 ²	0.75 ²	1.25 ²	0.750 ²	0.53 ²	3.50 ²	0.63 ²	1.88 ²	1.25 ²	0.75 ²	0.88 ²	2.55 ²	2.50 ²
0853610000 ²	1.00 ²	1.50 ²	1.000 ²	0.66 ²	4.50 ²	0.88 ²	2.38 ²	1.50 ²	1.00 ²	1.25 ²	3.25 ²	3.25 ²
0691980000 ²	1.38 ²	2.00 ²	1.375 ²	0.66 ²	5.00 ²	0.88 ²	3.00 ²	2.13 ²	1.38 ²	1.63 ²	3.82 ²	4.00 ²
0853620000 ²	1.75 ²	2.50 ²	1.750 ²	0.91 ²	6.50 ²	1.13 ²	3.38 ²	2.25 ²	1.75 ²	2.13 ²	4.95 ²	5.00 ²
0853630000 ²	2.00 ²	2.50 ²	2.000 ²	1.06 ²	7.50 ²	1.50 ²	4.00 ²	2.50 ²	2.00 ²	2.44 ²	5.73 ²	6.00 ²
0853640000 ²	2.50 ²	3.00 ²	2.500 ²	1.19 ²	8.50 ²	1.75 ²	4.75 ²	3.00 ²	2.50 ²	3.00 ²	6.58 ²	7.00 ²
0853650000 ²	3.00 ²	3.00 ²	3.000 ²	1.31 ²	9.50 ²	2.00 ²	5.25 ²	3.25 ²	2.75 ²	3.25 ²	7.50 ²	8.00 ²
0735380000 ²	3.50 ²	4.00 ²	3.500 ²	1.81 ²	12.63 ²	1.69 ²	5.69 ²	4.00 ²	3.50 ²	4.13 ²	9.62 ²	- ²
0735390000 ²	4.00 ²	4.50 ²	4.000 ²	2.06 ²	14.88 ²	1.94 ²	6.44 ²	4.50 ²	4.00 ²	5.25 ²	11.45 ²	- ²

¹ When used to mate with the Rod Clevis, select by Pivot Pin diameter in the table on the prior page...

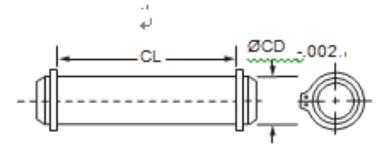
Knuckle Dimensions



For KK thread sizes 1-7/8"-12 to 4"-12.



Pivot Pin Dimensions



Part Number	Pin Ø	A	CA	CB	CD Ø	ER	JL	KK Thread	LR min
0740750000	0.44	0.75	1.50	0.44	0.438	0.53	-	5/16-24	-
0690890000	0.50	0.75	1.50	0.75	0.500	0.59	-	7/16-20	-
0690900000	0.50	0.75	1.50	0.75	0.500	0.59	-	1/2-20	-
0690910000	0.75	1.13	2.06	1.25	0.750	0.87	-	3/4-16	-
0690920000	1.00	1.13	2.38	1.50	1.000	1.15	-	7/8-14	-
0690930000	1.00	1.63	2.81	1.50	1.000	1.15	-	1-14	-
0690940000	1.38	2.00	3.44	2.00	1.375	1.55	-	1 1/4-12	-
0690950000	1.75	2.25	4.00	2.50	1.750	1.96	-	1 1/2-12	-
0690960000	2.00	2.25	4.38	2.50	2.000	2.24	-	1 3/4-12	-
0690970000	2.00	3.00	5.00	2.50	2.000	2.24	3.00	1 7/8-12	2.77
0690980000	2.50	3.50	5.81	3.00	2.500	2.76	3.50	2 1/4-12	3.09
0690990000	3.00	3.50	6.13	3.00	3.000	3.30	4.00	2 1/2-12	3.58
0691000000	3.00	3.63	6.50	3.50	3.000	3.30	4.00	2 3/4-12	3.58
0735360000	3.50	4.50	7.63	4.00	3.500	3.87	6.00	3 1/4-12	4.18
0734370000	3.50	5.00	7.63	4.00	3.500	3.87	6.00	3 1/2-12	4.18
0734380000	4.00	5.50	9.13	4.50	4.000	4.43	6.00	4-12	4.80
0734390000	4.00	5.50	9.13	5.00	4.000	4.43	-	4 1/2-12	-

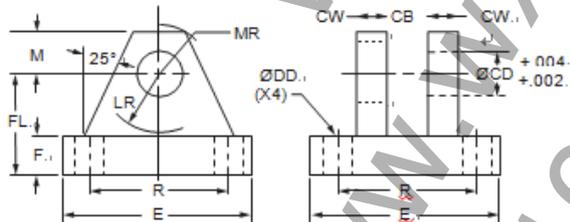
Part Number	CD Ø	CL
0740780000	0.438	1.31
0683680000	0.500	1.88
0683690000	0.750	2.63
0683700000	1.000	3.13
0683710000	1.375	4.13
0683720000	1.750	5.19
0692150000	2.000	5.69
0683740000	2.500	6.19
0683750000	3.000	6.25
0692160000	3.000	6.75
0735450000	3.500	8.25
0821810000	4.000	8.63
0735470000	4.000	9.00

¹ This size supplied with cotter pins.

Note:

1. Pivot Pins are furnished with BB Mount cylinders as standard.
3. Pivot Pins must be ordered as a separate item if to be used with Knuckles, Rod Clevises, or Clevis Brackets.

Fabricated Steel Clevis Bracket Dimensions



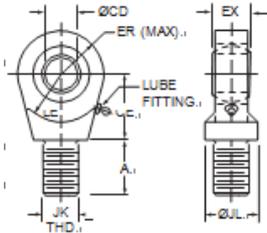
Fabricated Steel Part Number	Pin Ø	CB	CD Ø	CW	DD Ø	E	F	FL	LR	M	MR	R	For Use With B Mount Per Bore
0740760000	0.44	0.46	0.438	0.38	0.27	2.25	0.38	1.00	0.63	0.38	0.50	1.75	-
0692050000	0.50	0.80	0.500	0.50	0.41	3.50	0.50	1.50	0.75	0.50	0.63	2.55	1.50
0692060000	0.75	1.30	0.750	0.63	0.53	5.00	0.63	1.88	1.19	0.75	0.91	3.82	2.00, 2.50
0692070000	1.00	1.59	1.000	0.75	0.66	6.50	0.75	2.25	1.50	1.00	1.25	4.95	3.25
0692080000	1.38	2.09	1.375	1.00	0.66	7.50	0.88	3.00	2.00	1.38	1.66	5.73	4.00
0692090000	1.75	2.59	1.750	1.25	0.91	9.50	0.88	3.63	2.75	1.75	2.22	7.50	5.00
0692100000	2.00	2.59	2.000	1.50	1.06	12.75	1.00	4.25	3.19	2.25	2.78	9.40	6.00
0692110000	2.50	3.09	2.500	1.50	1.19	12.75	1.00	4.50	3.50	2.50	3.13	9.40	7.00
0692120000	3.00	3.09	3.000	1.50	1.31	12.75	1.00	6.00	4.25	3.00	3.59	9.40	8.00
0692130000	3.00	3.59	3.000	1.50	1.31	12.75	1.00	6.00	4.25	3.00	3.59	9.40	-
0735420000	3.50	4.09	3.500	2.00	1.81	15.50	1.69	6.69	5.00	3.50	4.13	12.00	-
0735430000	4.00	4.59	4.000	2.00	2.06	17.50	1.94	7.69	5.75	4.00	4.88	13.75	-
0735440000	4.00	5.09	4.000	2.00	2.06	17.50	1.94	7.69	5.75	4.00	4.88	13.75	-

² When used to mate with the Knuckle, select by Pivot Pin diameter in the table on the prior page.

Accessories for spherical bearing mount cylinders include Spherical Rod Eyes, Pivot Pins and Clevises

Brackets. To identify the proper part number for the desired accessory, please see the tables below.

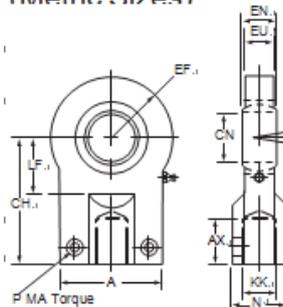
Spherical Rod Eye (Inch Sizes)



Note: Standard spherical bearing is maintenance-free (sealed) for CDØ > 0.5000".

Bore Ø.	Part No.	A.	CD Ø. +0.000 -0.0005	CE.	ER.	EX.	JK Thread Size.	JL Ø.	LE.	Load Capacity (lb).
1.50.	1322900000	0.69	0.5000	0.88	0.84	0.44	7/16-20.	0.88	0.78	2644.
2.00.	1322910000	1.00	0.7500	1.25	1.19	0.66	3/4-16.	1.31	1.06	9441.
2.50.										
3.25.	1322920000	1.50	1.0000	1.88	1.28	0.88	1-14.	1.50	1.44	16860.
4.00.	1322930000	2.00	1.3750	2.13	1.72	1.19	1 1/4-12.	2.00	1.51	28562.
5.00.	1322940000	2.13	1.7500	2.50	2.09	1.53	1 1/2-12.	2.25	2.16	43005.
6.00.	1322950000	2.88	2.0000	2.75	2.53	1.75	1 7/8-12.	2.75	2.50	70193.

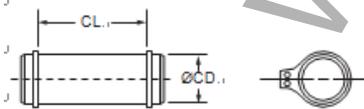
Spherical Rod Eye (Metric Sizes)



Note: Standard spherical bearing is maintenance-free (sealed).

Part No.	A.	AX	CH	CN.	EF	EN.	EU	KK.	LF	MA max Nm.	N.	P.	Load Cap. (lb)
1452540000	40	15	42	12 -0.008	20.	10 -0.12	8.	M10x1.25	16.	10.	17.	M6	1798.
1452550000	45	17	48	16 -0.008	22.5	14 -0.12	11	M12x1.25	20.	10.	21.	M6	2810.
1452560000	55	19	58	20 -0.012	27.5	16 -0.12	13	M14x1.5	25.	25.	25.	M8	4496.
1452570000	62	23	68	25 -0.012	32.5	20 -0.12	17	M16x1.5	30.	25.	30.	M8	7194.
1452580000	80	29	85	30 -0.012	40.	22 -0.12	19	M20x1.5	35.	45.	36.	M10	11240.
1452590000	90	37	105	40 -0.012	50.	28 -0.12	23	M27x2.	45.	45.	45.	M10	17985.
1452600000	105	46	130	50 -0.012	62.5	35 -0.12	30	M33x2.	58.	80.	55.	M12	28101.
1452610000	134	57	150	60 -0.015	80.	44 -0.15	38	M42x2.	68.	160.	68.	M16	44962.
1452620000	156	64	185	80 -0.015	102.5	55 -0.15	47	M48x2.	92.	310.	90.	M20	71939.
1452630000	190	86	240	100 -0.020	120.	70 -0.20	57	M64x3.	116.	530.	110	M24	112404.

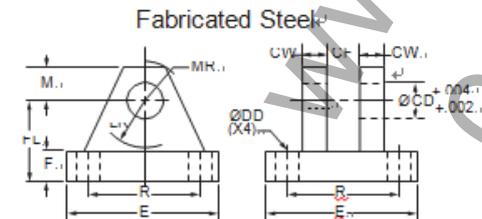
Pivot Pin (Inch Sizes)



Pivot Pins are furnished with (2) Retainer Rings.

Bore Ø.	Part No.	CD Ø.	CL.	Shear Capacity (lb).
1.50.	0839620000	.4997 -0.0004.	1.56.	8600.
2.00.	0839630000	.7497 -0.0005.	2.03.	19300.
2.50.				
3.25.	0839640000	.9997 -0.0005.	2.50.	34300.
4.00.	0839650000	1.3746 -0.0006.	3.31.	65000.
5.00.	0839660000	1.7496 -0.0006.	4.22.	105200.
6.00.	0839670000	1.9996 -0.0007.	4.94.	137400.

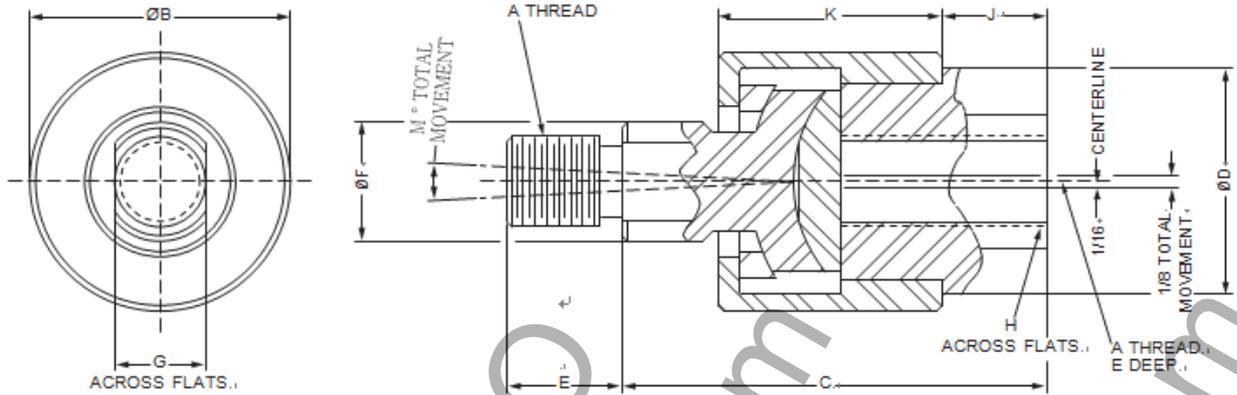
Clevis Bracket for SB Mount Cap or Spherical Rod Eye (Inch Sizes)



Bore Ø.	Fabricated Steel Part Number.	CD Ø.	CF.	CW.	DD Ø.	E.	F.	FL.	LR.	M.	MR.	R.	Load Capacity (lb).
1.50.	0839470000.	0.500.	0.45.	0.50.	0.41.	3.00.	0.50.	1.50.	0.94.	0.50.	0.63.	2.05.	5770.
2.00.	0839480000.	0.750.	0.67.	0.63.	0.53.	3.75.	0.63.	2.00.	1.38.	0.88.	1.00.	2.76.	9450.
2.50.													
3.25.	0839490000.	1.000.	0.89.	0.75.	0.53.	5.50.	0.75.	2.50.	1.69.	1.00.	1.19.	4.10.	14300.
4.00.	0839500000.	1.375.	1.20.	1.00.	0.66.	6.50.	0.88.	3.50.	2.44.	1.38.	1.63.	4.95.	20322.
5.00.	0839510000.	1.750.	1.55.	1.25.	0.91.	8.50.	1.25.	4.50.	2.88.	1.75.	2.06.	6.58.	37800.
6.00.	0839520000.	2.000.	1.77.	1.50.	0.91.	10.63.	1.50.	5.00.	3.31.	2.00.	2.38.	7.92.	50375.

Alignment Coupler

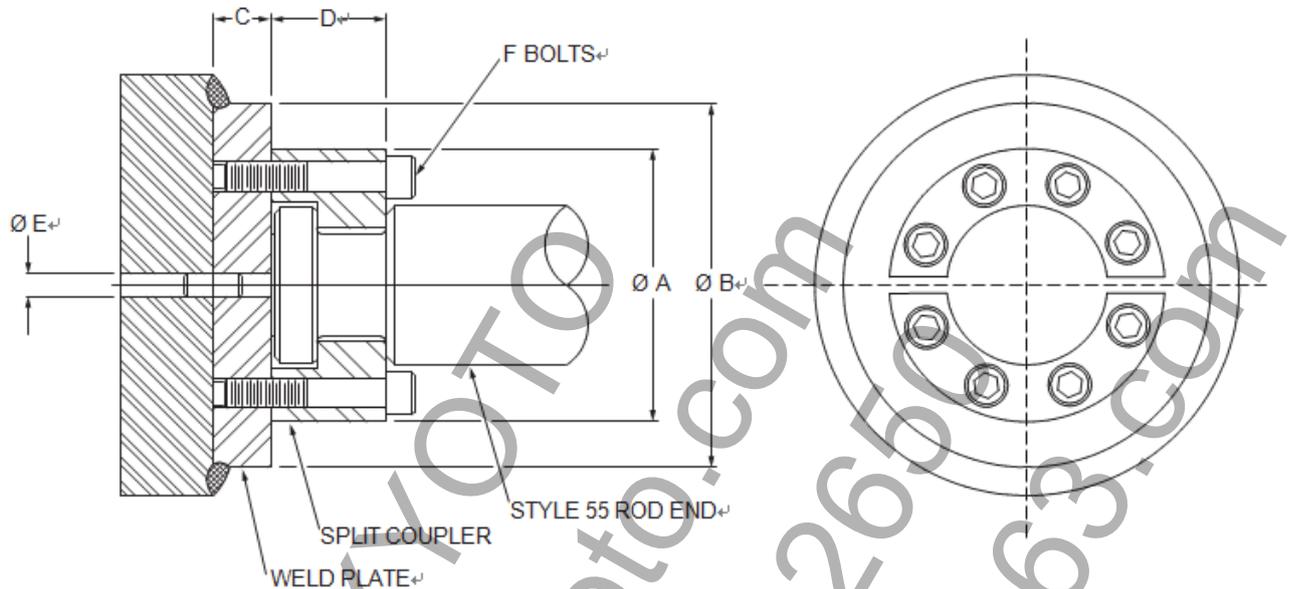
See Table for Part Numbers and Dimensions



Part Numbers and Dimensions

Part No.	A' Thread Size	B \varnothing	C	D \varnothing	E	F \varnothing	G	H	J	K	M	Max. Pull Load (lbs.)	Max. Approx. Weight (lbs.)
1347570031	5/16-24	1.13	1.75	0.94	0.50	0.50	0.38	0.75	0.38	0.94	6°	1200	.35
1347570038	3/8-24	1.13	1.75	0.94	0.50	0.50	0.38	0.75	0.38	0.94	6°	2425	.35
1347570044	7/16-20	1.38	2.00	1.13	0.75	0.63	0.50	0.88	0.38	1.09	6°	3250	.55
1347570050	1/2-20	1.38	2.00	1.13	0.75	0.63	0.50	0.88	0.38	1.09	6°	4450	.55
1347570063	5/8-18	1.38	2.00	1.13	0.75	0.63	0.50	0.88	0.38	1.09	6°	6800	.55
1347570075	3/4-16	2.00	2.31	1.63	1.13	0.94	0.75	1.31	0.44	1.28	6°	9050	1.4
1347570088	7/8-14	2.00	2.31	1.63	1.13	0.94	0.75	1.31	0.44	1.28	6°	14450	1.4
1347570100	1-14	3.13	3.00	2.38	1.63	1.44	1.25	1.88	0.75	1.78	6°	19425	4.8
1347570125	1 1/4-12	3.13	3.00	2.38	1.63	1.44	1.25	1.88	0.75	1.78	6°	30500	4.8
1337390125	1 1/4-12	3.50	4.00	2.00	2.00	1.50	1.25	1.69	0.75	2.50	10°	30500	6.9
1337390150	1 1/2-12	4.00	4.38	2.25	2.25	1.75	1.50	1.94	0.88	2.75	10°	45750	9.8
1337390175	1 3/4-12	4.00	4.38	2.25	2.25	1.75	1.50	1.94	0.88	2.75	10°	58350	9.8
1337390188	1 7/8-12	5.00	5.63	3.00	3.00	2.25	1.94	2.63	1.38	3.38	10°	67550	19.8
1337390200	2-12	5.00	5.63	3.00	3.00	2.25	1.94	2.63	1.38	3.38	10°	77450	19.8
1337390225	2 1/4-12	6.75	6.38	3.25	3.50	2.75	2.38	2.88	1.63	3.75	10°	99250	35.3
1337390250	2 1/2-12	7.00	6.50	4.00	3.50	3.25	2.88	3.38	1.63	3.88	10°	123750	45.3
1337390275	2 3/4-12	7.00	6.50	4.00	3.50	3.25	2.88	3.38	1.63	3.88	10°	150950	45.3
1337390300	3-12	7.00	6.50	4.00	3.50	3.25	2.88	3.38	1.63	3.88	10°	180850	45.3
1337390325	3 1/4-12	9.25	8.50	5.25	4.50	4.00	3.38	4.50	2.00	5.50	10°	218450	-
1337390425	4 1/4-12	12.88	11.25	7.75	4.50	5.50	4.88	7.00	1.50	8.75	10°	370850	-

Style 55 Piston Rod End
Split Couplers and Weld Plates



Part Numbers and Dimensions

Rod Ø	A Ø	B Ø	C	D	E Ø	F	Bolt Size	Bolt Circle	Split Coupler Part No.	Weld Plate Part No.
0.625	1.50	2.00	0.50	0.56	.250	4	#10-24 x .94 LG	1.125	1472340062	1481740062
1.000	2.00	2.50	0.50	0.88	.250	6	1/4-20 x 1.25 LG	1.500	1472340100	1481740100
1.375	2.50	3.00	0.63	1.00	.250	6	5/16-18 x 1.00 LG	2.000	1472340138	1481740138
1.750	3.00	4.00	0.63	1.25	.250	8	5/16-18 x 1.75 LG	2.375	1472340175	1481740175
2.000	3.50	4.00	0.75	1.63	.375	12	3/8-16 x 2.25 LG	2.687	1472340200	1481740200
2.500	4.00	4.50	0.75	1.88	.375	12	3/8-16 x 2.50 LG	3.187	1472340250	1481740250
3.000	5.00	5.50	1.00	2.38	.375	12	1/2-13 x 3.25 LG	4.000	1472340300	1481740300
3.500	5.88	7.00	1.00	2.63	.375	12	5/8-11 x 3.50 LG	4.687	1472340350	1481740350
4.000	6.38	7.00	1.00	2.63	.375	12	5/8-11 x 3.50 LG	5.187	1472340400	1481740400
4.500	6.88	8.00	1.00	3.13	.375	12	5/8-11 x 4.00 LG	5.687	1472340450	1481740450
5.000	7.38	8.00	1.00	3.13	.375	12	5/8-11 x 4.00 LG	6.187	1472340500	1481740500
5.500	8.25	9.00	1.25	3.88	.375	12	3/4-10 x 5.00 LG	6.875	1472340550	1481740550