

DOUBLE-ACTION AIR CYLINDER & COMPONENTS INDEX

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DOUBLE-ACTION CYLINDER

(VDMA 24 562)
(A00 SERIES)

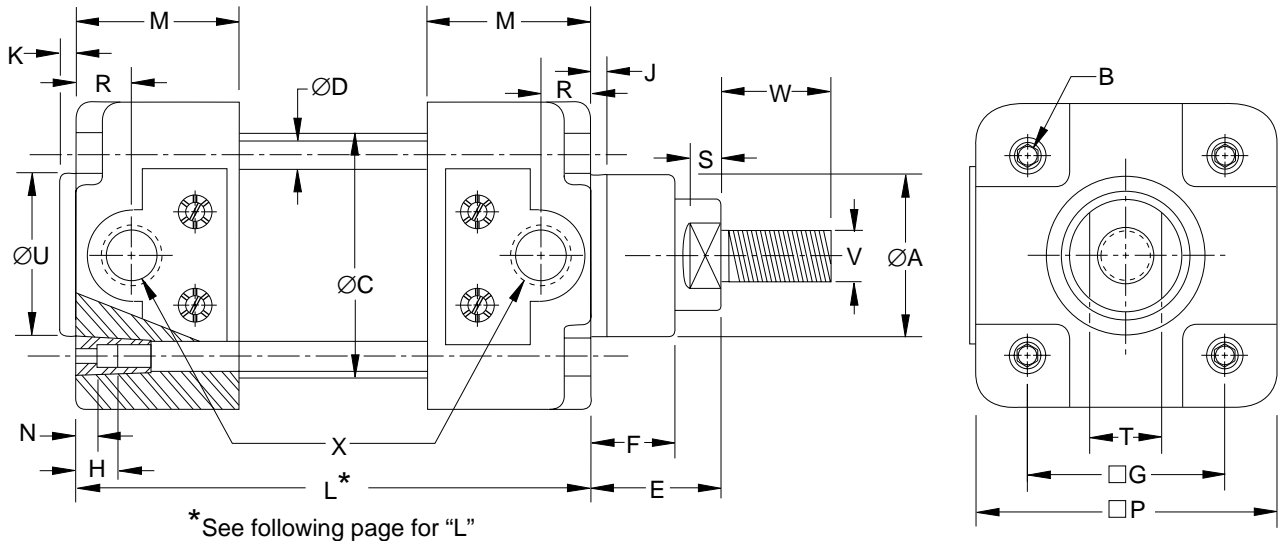
GLOBAL STANDARD COMPONENTS



Stamping

04/16/96

WITHOUT MOUNTING BRACKETS



CYL. BORE Ø	A e11	B	C	D	E	F	G	H MIN	J MIN	K +0 -1
32	30	M6	37	≤ B	26	20 ⁺⁰ ₋₅	32.5±0.5	16	4	4
40	35	M6	45		30	22 ⁺⁰ ₋₅	38±0.5	16	4	4
50	40	M8	55		37	29 ⁺⁰ ₋₅	46.5±0.6	16	4	4
63	45	M8	68		37	29 ⁺⁰ ₋₅	56.5±0.7	16	4	4
80	45	M10	86		46	35 ⁺⁰ ₋₅	72±0.7	16	4	4
100	55	M10	107		51	38 ⁺⁰ ₋₆	89±0.7	16	4	4
125	60	M12	133		65	50 ⁺⁰ ₋₁₀	110±1.1	20	6	6
160	65	M16	170		80	60 ⁺⁰ ₋₁₀	140±1.1	24	6	6

CYL. BORE	M MAX Ø	N +0 -2	P MAX	R MIN	S	T	U e11	V	W NOM	X NPT
32	35	5	50	13	6	10	30	M10X1.25	22	1/8
40	39	5	58	14	6.5	13	35	M12X1.25	24	1/4
50	39	6	70	14	8	16	40	M16x1.5	32	1/4
63	46	6	85	16	8	16	45	M16x1.5	32	3/8
80	48	-	105	16	10	21	45	M20x1.5	40	3/8
100	51	-	130	18	10	21	55	M20x1.5	40	1/2
125	62	-	157	18	13	27	60	M27x2	54	1/2
160	70	-	195	25	16	36	65	M36x2	72	3/4

NOTES & SPECIFICATIONS:

Stroke lengths: 25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500

Stroke length tolerance: 0 to 2.5

Maximum operating pressure: 1MPa (10 bar)

CODING ON FOLLOWING PAGE

DOUBLE-ACTION CYLINDER CODING

(A00 SERIES)



Stamping

05/09/01

WITHOUT MOUNTING BRACKETS

NAAMS CODE	BORE X STROKE	L (OVERALL BODY LENGTH + STROKE)
A000302	32 x 25	119±0.4
A000305	32 x 50	144±0.4
A000308	32 x 80	174±0.4
A000310	32 x 100	194±0.4
A000312	32 x 125	219±0.4
A000316	32 x 160	254±0.4
A000320	32 x 200	294±0.4
A000325	32 x 250	344±0.4
A000332	32 x 320	414±0.4
A000340	32 x 400	494±0.4
A000350	32 x 500	594±0.4
A000402	40 x 25	130±0.7
A000405	40 x 50	155±0.7
A000408	40 x 80	185±0.7
A000410	40 x 100	205±0.7
A000412	40 x 125	230±0.7
A000416	40 x 160	265±0.7
A000420	40 x 200	305±0.7
A000425	40 x 250	355±0.7
A000432	40 x 320	425±0.7
A000440	40 x 400	505±0.7
A000450	40 x 500	605±0.7
A000502	50 x 25	131±0.7
A000505	50 x 50	156±0.7
A000506	50 x 63	169±0.7
A000508	50 x 80	186±0.7
A000510	50 x 100	206±0.7
A000512	50 x 125	231±0.7
A000516	50 x 160	266±0.7
A000520	50 x 200	306±0.7
A000525	50 x 250	356±0.7
A000532	50 x 320	426±0.7
A000540	50 x 400	506±0.7
A000550	50 x 500	606±0.7
A000602	63 x 25	146±0.8
A000605	63 x 50	171±0.8
A000608	63 x 80	201±0.8
A000610	63 x 100	221±0.8
A000612	63 x 125	246±0.8
A000616	63 x 160	281±0.8
A000620	63 x 200	321±0.8
A000625	63 x 250	371±0.8
A000632	63 x 320	441±0.8
A000640	63 x 400	521±0.8
A000650	63 x 500	621±0.8

NAAMS CODE	BORE X STROKE	L (OVERALL BODY LENGTH + STROKE)
A000802	80 x 25	153±0.8
A000805	80 x 50	178±0.8
A000808	80 x 80	208±0.8
A000810	80 x 100	228±0.8
A000812	80 x 125	253±0.8
A000816	80 x 160	288±0.8
A000820	80 x 200	328±0.8
A000825	80 x 250	378±0.8
A000832	80 x 320	448±0.8
A000840	80 x 400	528±0.8
A000850	80 x 500	628±0.8
A001002	100 x 25	163±1
A001005	100 x 50	188±1
A001008	100 x 80	218±1
A001010	100 x 100	238±1
A001012	100 x 125	263±1
A001016	100 x 160	298±1
A001020	100 x 200	338±1
A001025	100 x 250	388±1
A001032	100 x 320	458±1
A001040	100 x 400	538±1
A001050	100 x 500	638±1
A001202	125 x 25	185±1
A001205	125 x 50	210±1
A001208	125 x 80	240±1
A001210	125 x 100	260±1
A001212	125 x 125	285±1
A001216	125 x 160	320±1
A001220	125 x 200	360±1
A001225	125 x 250	410±1
A001232	125 x 320	480±1
A001240	125 x 400	560±1
A001250	125 x 500	660±1
A001602	160 x 25	205±1.1
A001605	160 x 50	230±1.1
A001608	160 x 80	260±1.1
A001610	160 x 100	280±1.1
A001612	160 x 125	305±1.1
A001616	160 x 160	340±1.1
A001620	160 x 200	380±1.1
A001625	160 x 250	430±1.1
A001632	160 x 320	500±1.1
A001640	160 x 400	580±1.1
A001650	160 x 500	680±1.1

C

A

B

FLANGE MOUNT (FRONT)

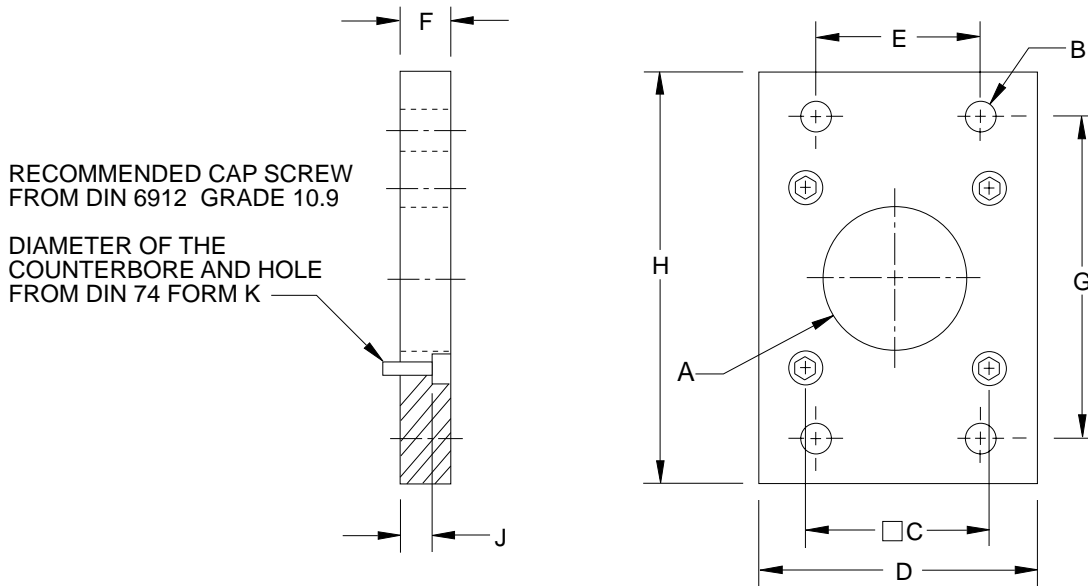
(A21 SERIES)

GLOBAL STANDARD COMPONENTS

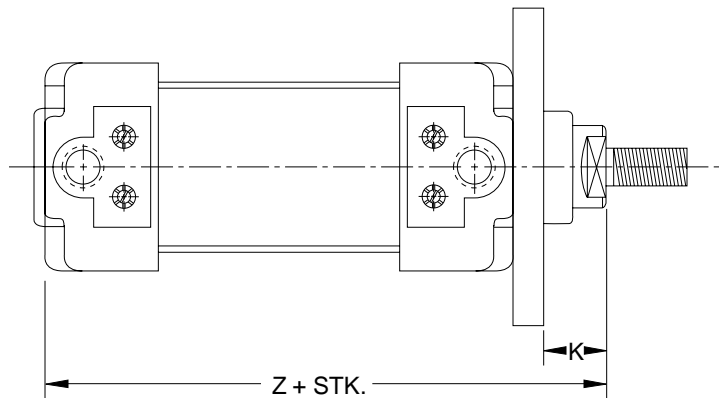


Stamping

04/16/96



NAAMS CODE	CYLINDER BORE Ø	A H11	B H13	C	D MAX	E JS14	F JS14	G JS14	H MAX	J -0.5	K	Z
A210032	32	30	7	32.5±0.2	50	32	10	64	86	5	16	120
A210040	40	35	9	38±0.2	58	36	10	72	96	5	20	135
A210050	50	40	9	46.5±0.2	70	45	12	90	115	6.5	25	143
A210063	63	45	9	56.5±0.2	85	50	12	100	130	6.5	25	158
A210080	80	45	12	72±0.2	105	63	16	126	165	8	30	174
A210100	100	55	14	89±0.2	130	75	16	150	187	8	35	189
A210125	125	60	16	110±0.3	157	90	20	180	224	10.5	45	225
A210160	160	65	18	140±0.3	195	115	20	230	280	9.5	60	260



NOTES & SPECIFICATIONS:

Stroke lengths: 25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500

Same flange plate to be used for front and rear mount application

FLANGE MOUNT (REAR)

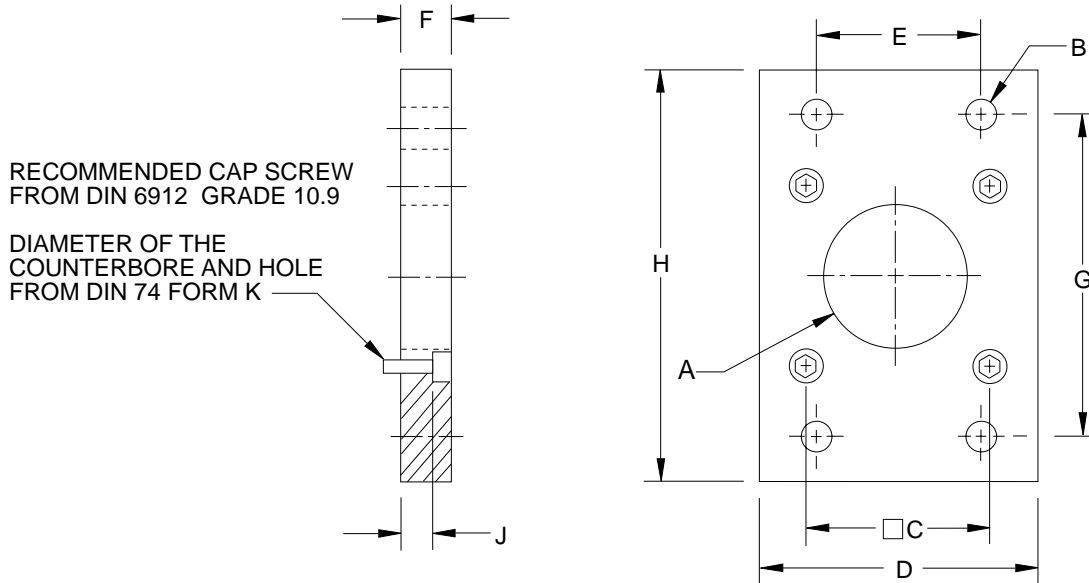
(A21 SERIES)

GLOBAL STANDARD COMPONENTS

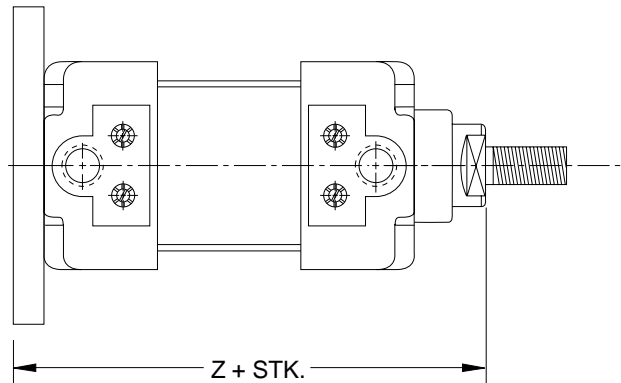


Stamping

04/16/96



NAAMS CODE	CYLINDER BORE Ø	A H11	B H13	C	D MAX	E JS14	F JS14	G JS14	H MAX	J -0.5	Z
A210032	32	30	7	32.5±0.2	50	32	10	64	86	5	130
A210040	40	35	9	38±0.2	58	36	10	72	96	5	145
A210050	50	40	9	46.5±0.2	70	45	12	90	115	6.5	155
A210063	63	45	9	56.5±0.2	85	50	12	100	130	6.5	170
A210080	80	45	12	72±0.2	105	63	16	126	165	8	190
A210100	100	55	14	89±0.2	130	75	16	150	187	8	205
A210125	125	60	16	110±0.3	157	90	20	180	224	10.5	245
A210160	160	65	18	140±0.3	195	115	20	230	280	9.5	280



NOTES & SPECIFICATIONS:

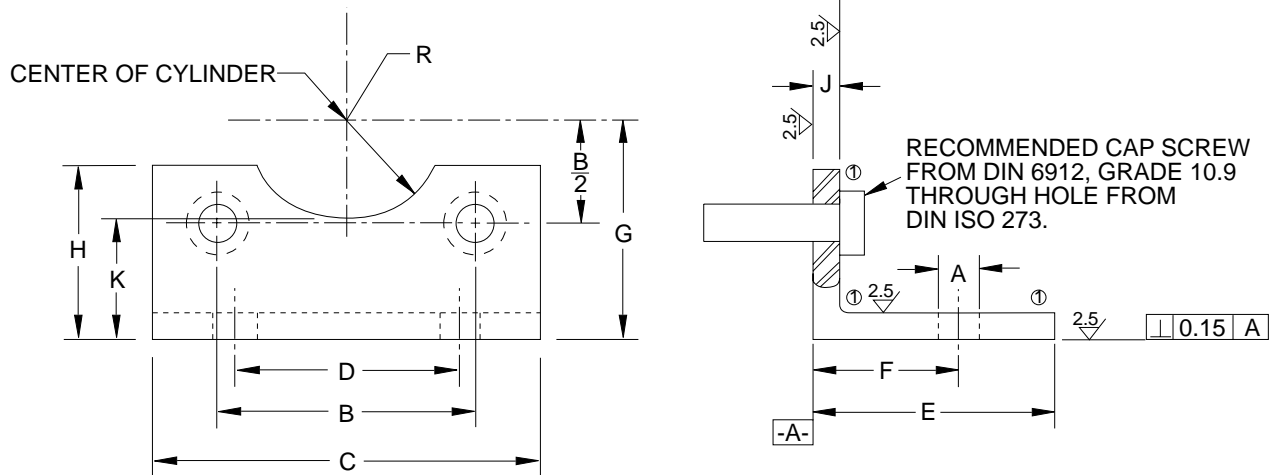
Stroke lengths: 25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500
Same flange plate to be used for front and rear mount application

FOOT MOUNT BRACKET

(A31 SERIES)

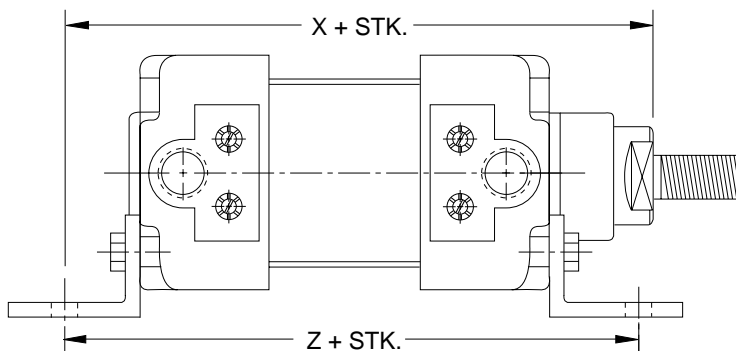
Stamping

04/16/96



- Allowable rolling or bending radii should not affect head alignment of cap screw.
 Alternate: Spot face to hold dimension "J" acceptable for screw holes.
- ⊗ Not to VDMA

NAAMS CODE	CYL. BORE Ø	A H14	B		C MAX	D JS14	E MAX	F ±0.2	G JS15	H ±1.0	J		K JS14	R H15	Z	X
			NOM	TOL							NOM	TOL				
A310032	32	7	32.5	±0.2	50	32	44.4 [⊗]	24	32	32	5 [⊗]	±0.7	17	15	142	144
A310040	40	9	38		58	36	44.4 [⊗]	28	36	36	5 [⊗]		18.5	17.5	161	163
A310050	50	9	46.5		70	45	50.8 [⊗]	32	45	45	6 [⊗]		25	20	170	175
A310063	63	9	56.5		85	50	50.8 [⊗]	32	50	50	6 [⊗]		27.5	22.5	185	190
A310080	80	12	72		105	63	76.2 [⊗]	41	63	63	8 [⊗]		40.5	22.5	210	215
A310100	100	14	89	±0.3	130	75	76.2 [⊗]	41	71	71	8 [⊗]	±1	43.5	27.5	220	230
A310125	125	16	110		157	90	76.2 [⊗]	45	90	90	11 [⊗]		60	30	250	270
A310160	160	18	140		195	115	88.9 [⊗]	60	115	115	13 [⊗]		82.5	32.5	300	320



NOTES & SPECIFICATIONS:

Stroke Lengths: 25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500

TRUNNION MOUNT BRACKET

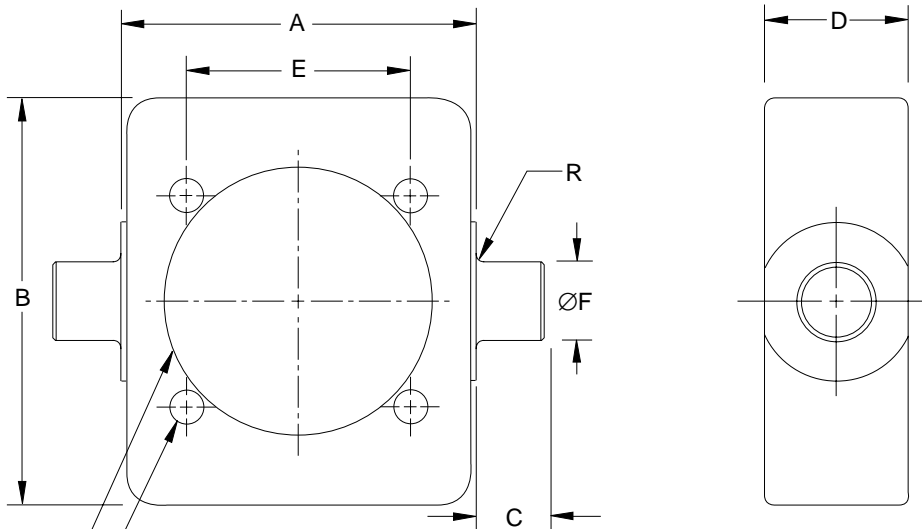
(A41 SERIES)

GLOBAL STANDARD COMPONENTS



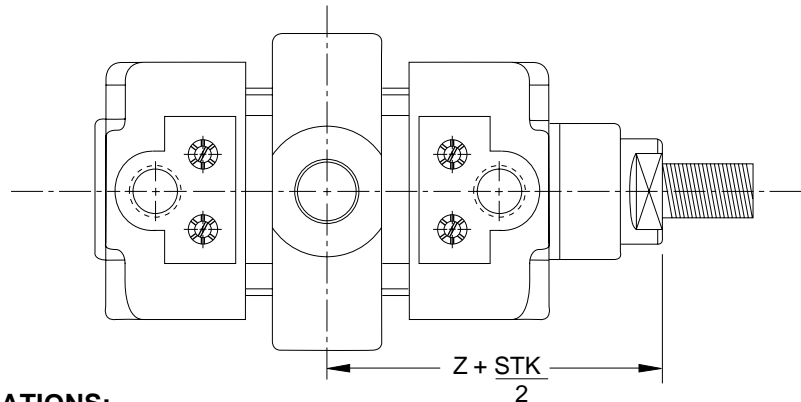
Stamping

06/05/96



THE MOUNT MAY EITHER BE SCREWED OR CLAMPED TO THE TIE ROD.
 $\varnothing > \varnothing C$ FROM NAAMS BASIC AIR CYLINDER STANDARD (VDMA 24 562 SECTION 1).

NAAMS CODE	CYLINDER BORE \varnothing	A h14	B MAX	C h14	D MAX	E		F e9	R MAX	Z
						NOM	TOL			
A410032	32	50	65	12	25	32.5	±0.2	12	1	73
A410040	40	63	75	16	28	38		16	1.6	82.5
A410050	50	75	95	16	28	46.5		16	1.6	90
A410063	63	90	105	20	36	56.5		20	1.6	97.5
A410080	80	110	130	20	36	72		20	1.6	110
A410100	100	132	145	25	48	89	±0.3	25	2	120
A410125	125	160	175	25	50	110		25	2	145
A410160	160	200	220	32	50	140		32	2.5	170



NOTES & SPECIFICATIONS:

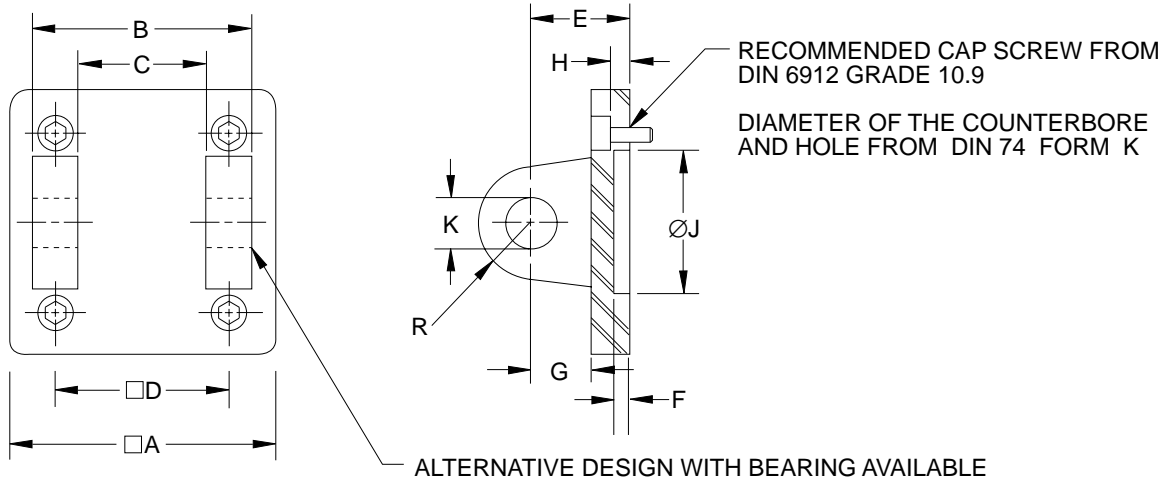
Stroke Lengths: 25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500

CLEVIS MOUNT BRACKET

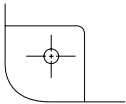
(A51 SERIES)

Stamping

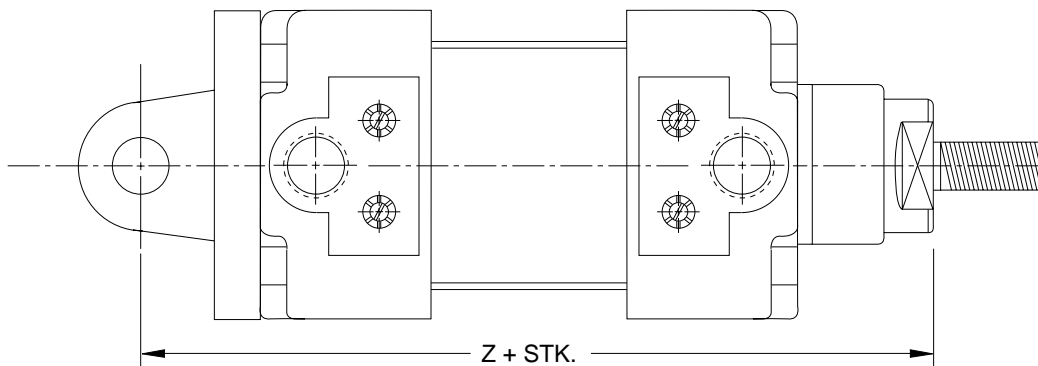
06/05/96



ALTERNATIVE WAY TO FORM THE COUNTERBORE



NAAMS CODE	CYLINDER BORE Ø	A MAX	B d12	C H14	D		E ±0.2	F MIN	G MIN	H ±0.5	J H11	K H9	R MAX	Z
					NOM	TOL								
A510032	32	50	45	26	32.5	±0.2	22	4.5	12	5.5	30	10	11	142
A510040	40	58	52	28	38		25	4.5	15	5.5	35	12	13	160
A510050	50	70	60	32	46.5		27	4.5	15	6.5	40	16	13	170
A510063	63	85	70	40	56.5		32	4.5	20	6.5	45	16	17	190
A510080	80	105	90	50	72		36	4.5	20	10	45	20	17	210
A510100	100	130	110	60	89		41	4.5	25	10	55	20	21	230
A510125	125	157	130	70	110	±0.3	50	7	30	10	60	30	26	275
A510160	160	195	170	90	140		55	7	35	10	65	35	31	315



NOTES & SPECIFICATIONS:

Stroke Lengths: 25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500

PIVOT MOUNT BRACKET

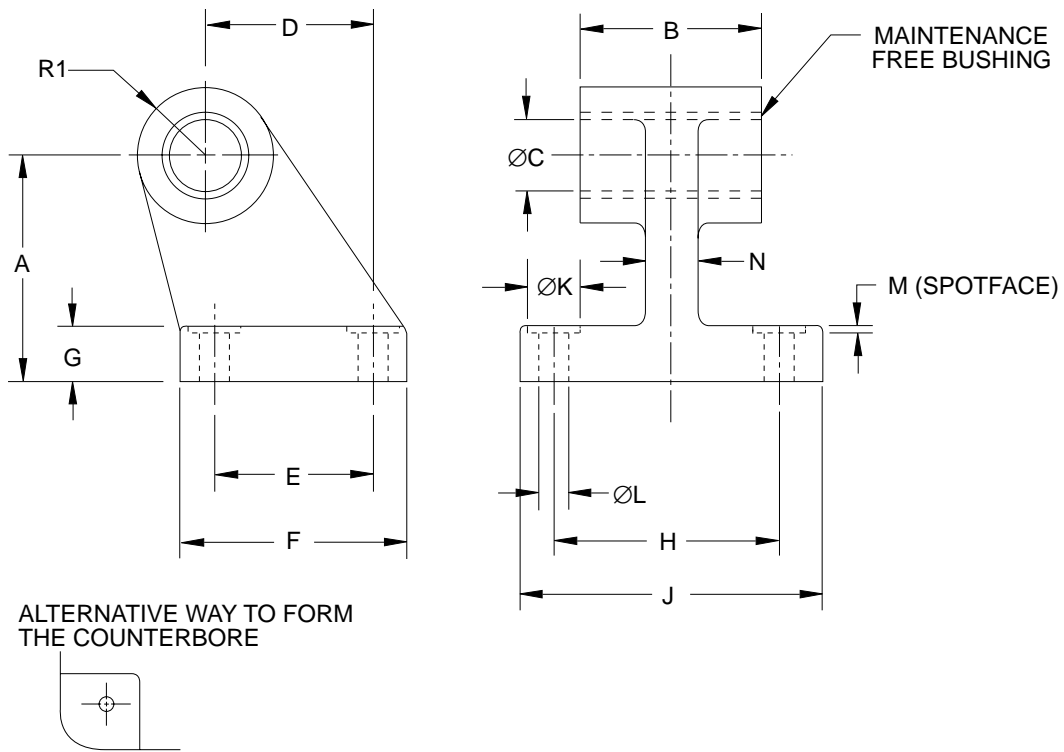
(A61 SERIES)

GLOBAL STANDARD COMPONENTS



Stamping

04/16/96

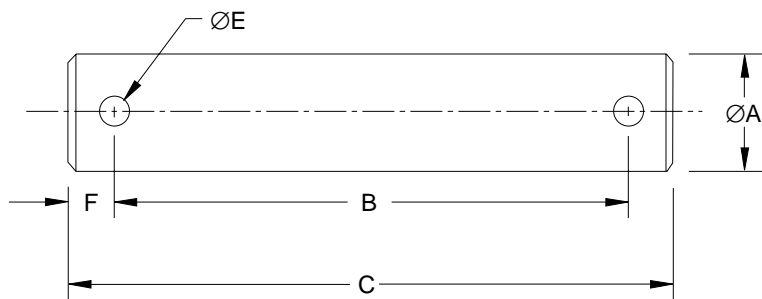


NAAMS CODE	CYLINDER BORE Ø	A JS15	B	C H9	D JS14	E JS14	F MAX	G	H JS14	J MAX	R1 MAX	K MIN	L H13	M MAX	N MAX
A611032	32	32	26 ^{-0.2} _{-0.6}	10	21	18	31	8	38	51	10	11	6.6	1.6	10
A611240	40	36	28 ^{-0.2} _{-0.6}	12	24	22	35	10	41	54	11	11	6.6	1.6	12
A611250	50	45	32 ^{-0.2} _{-0.6}	16	33	30	45	12	50	65	13	15	9.0	1.6	16
A611663	63	50	40 ^{-0.2} _{-0.6}	16	37	35	50	12	52	67	15	15	9.0	1.6	16
A611680	80	63	50 ^{-0.2} _{-0.6}	20	47	40	60	14	66	86	15	18	11	2.5	20
A612010	100	71	60 ^{-0.2} _{-0.6}	20	55	50	70	15	76	96	19	18	11	2.5	20
A612512	125	90	70 ^{-0.5} _{-1.5}	30	70	60	90	20	94	124	22.5	20	14	3.2	30
A613016	160	115	90 ^{-0.5} _{-1.5}	35	97	88	126	25	118	156	31.5	20	14	4	36

CLEVIS PIN

(A64 SERIES)

FOR CLEVIS & PIVOT BRACKET MOUNTS



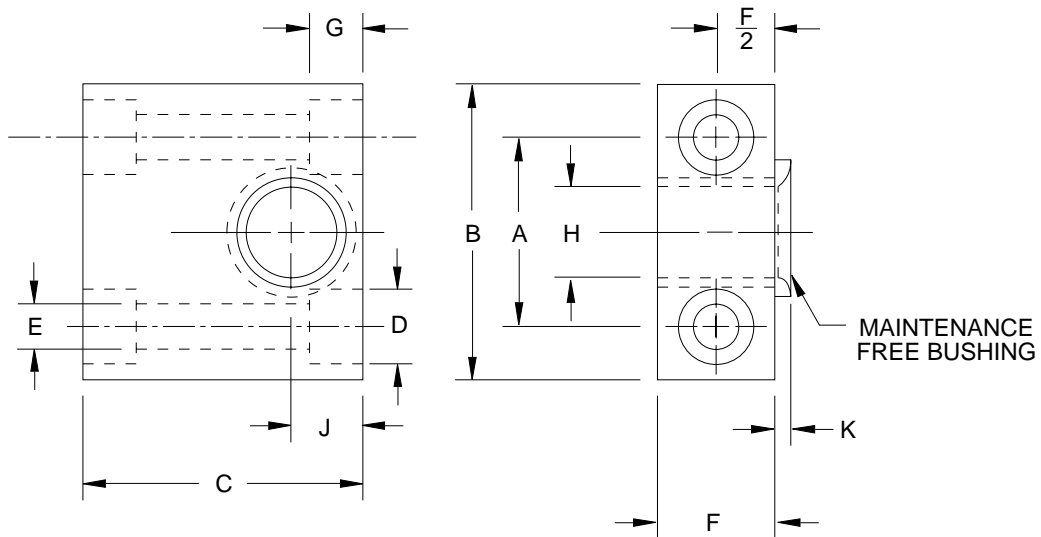
NAAMS CODE	CYLINDER BORE \varnothing	A h9	B	C MAX	D	E H12	F MAX
A643264	32	10	55	64	14	3	4.5
A644076	40	12	64	76	16	4	6
A645085	50	16	73	85	20	4	6
A646395	63	16	83	95	20	4	6
A648011	80	20	104	116	24	4	6
A641013	100	20	124	136	24	4	6
A641216	125	30	148	166	36	6	9
A641620	160	35	190	208	41	6	9

TRUNNION PILLOW BLOCK

(A62 SERIES)

Stamping

05/14/97



NAAMS CODE	CYLINDER BORE Ø	A	B	C	D	E	F	G	H	J	K	SCR SIZE
A621332	32	32	46	45	11	6.6	15	8	12	15	3	M6
A621545	40/50	36	55	54	15	9	18	9	16	18	3	M8
A621668	63/80	42	65	60	18	11	20	11	20	20	3	M10
A622011	100/125	50	75	75	20	14	25	13	25	25	3.5	M12
A622516	160	60	92	90	26	18	36	17	32	30	4	M16

TRUNNION PILLOW BLOCK MOUNTING BRACKET

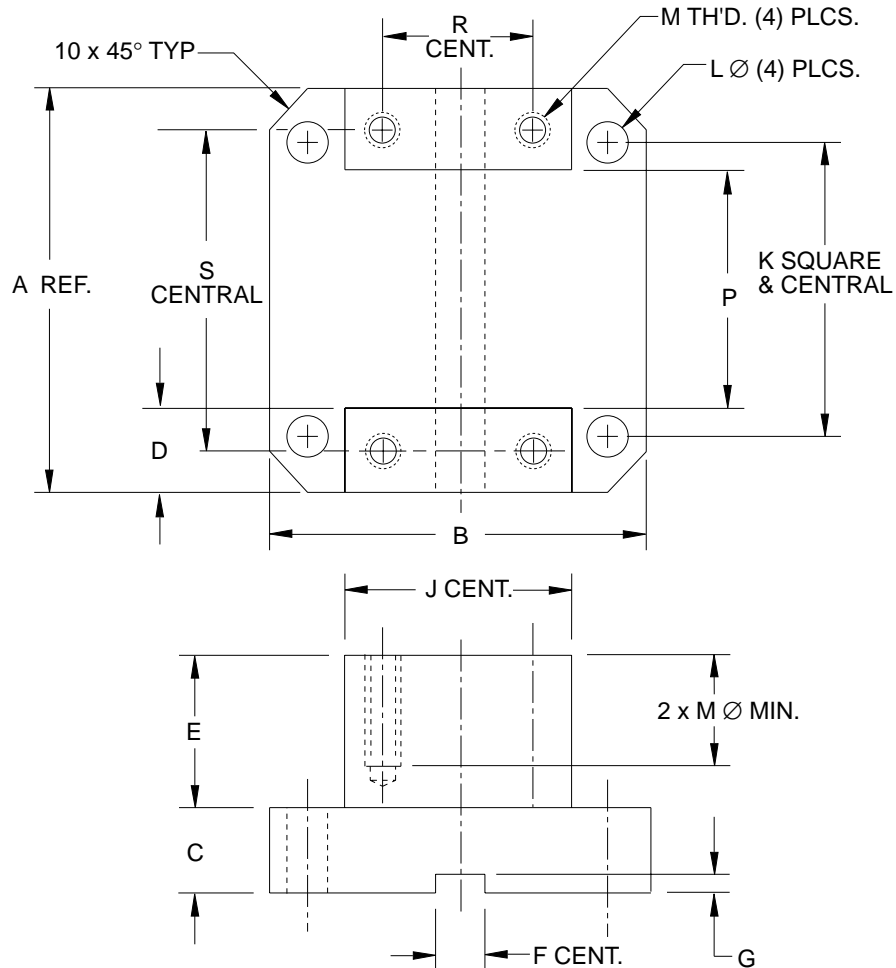
(A65 SERIES)

GLOBAL STANDARD COMPONENTS



Stamping

05/14/97



NAAMS CODE	CYL. BORE Ø	A	B	C	D	E	F	G	J	K	L DIA.	M TH'D.	P	R	S
A650032	32	91	90	20	20	25	12	4	50	71	9	M6 x 1	51	32	71
A650040	40	110	121	20	22	50	12	4	60	87	12	M8 x 1.25	66	36	88
A650050	50	121	110	20	22	50	12	4	60	87	12	M8 x 1.25	77	36	99
A650063	63	140	160	25	24	63	14	4.5	70	116	14	M10 x 1.5	92	42	116
A650080	80	160	140	25	24	63	14	4.5	70	116	14	M10 x 1.5	112	42	136
A650100	100	200	228	30	35	89	14	4.5	90	164	18	M12 x 1.75	130	50	165
A650125	125	228	200	30	35	89	14	4.5	90	164	18	M12 x 1.75	158	50	193
A650160	160	282	332	38	37	120	20	6	100	241	18	M16 x 2	208	60	245

NOTES & SPECIFICATIONS:

Material, steel

ROD END CLEVIS ASSEMBLY

(A66 SERIES)

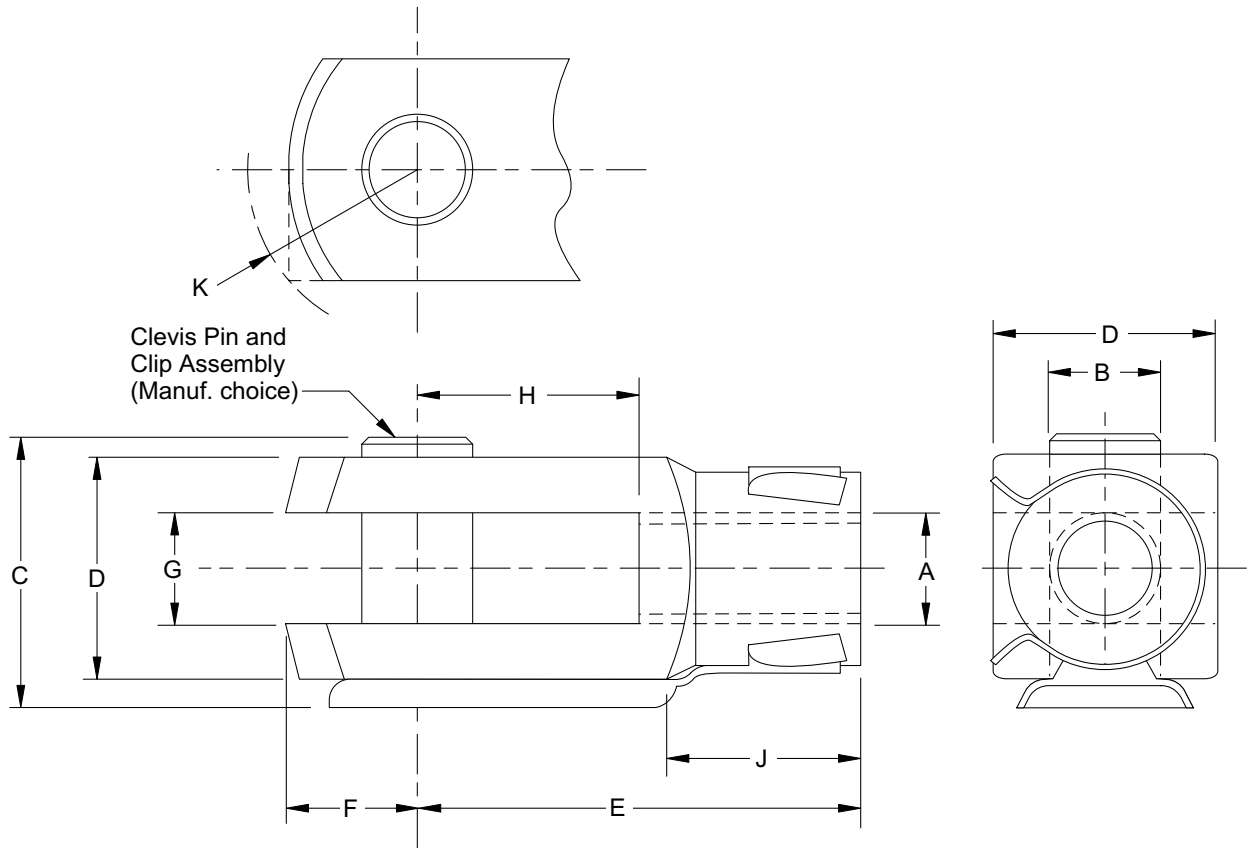
GLOBAL STANDARD COMPONENTS



Stamping

12/17/98

(REPLACES A63 SERIES)



NAAMS CODE	CYL BORE-Ø	A Nominal	B H7/e8	C	D max	E	F	G		H	J Min.	K Max.
								Dim.	Tol.			
A660310	32	M 10 x 1.25	10	26.0	20	40	12	10	+ 0.50 + 0.15	20	20	16
A660412	40	M 12 x 1.25	12	31.0	24	48	14	12		24	22	19
A660516	50, 63	M 16 x 1.50	16	39.0	32	64	19	16	+ 0.60 + 0.15	32	28	25
A660820	80, 100	M 20 x 1.50	20	53.0	40	80	25	20		40	33	32
A661227	125	M 27 x 2.00	30	74.0	55	110	38	30	+ 0.15	54	51	45
A661636	160, 200	M 36 x 2.00	35	90.5	70	144	44	35		72	56	57
A662542	250	M 42 x 2.00	40	109.5	85	168	64	40	+ 0.15	84	60	77
A663248	320	M 48 x 2.00	50	120.0	96	192	73	50		96	65	88

COUPLING PLATE

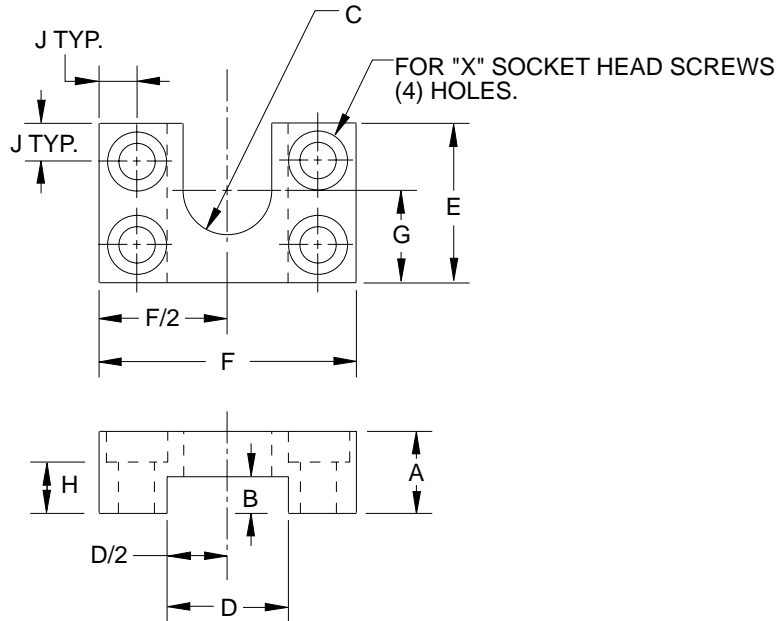
(A71 SERIES)

GLOBAL STANDARD COMPONENTS



Stamping

04/16/96



NAAMS CODE	CYL. BORE	A	B	C	D	E	F	G	H	J	X
A710014	32,40	25	11	14	38	50	80	30	15	11.5	M10
A710020	50, 63, 80,100	32	15	20	50	55	100	35	20	12.5	M12
A710025	125, 160, 200	40	20	25	60	65	120	45	24	16.0	M16
A710033	250	45	20	33	80	100	150	64	19	18.0	M20

NOTES & SPECIFICATIONS:

Material, steel

COUPLING PLATE NUT

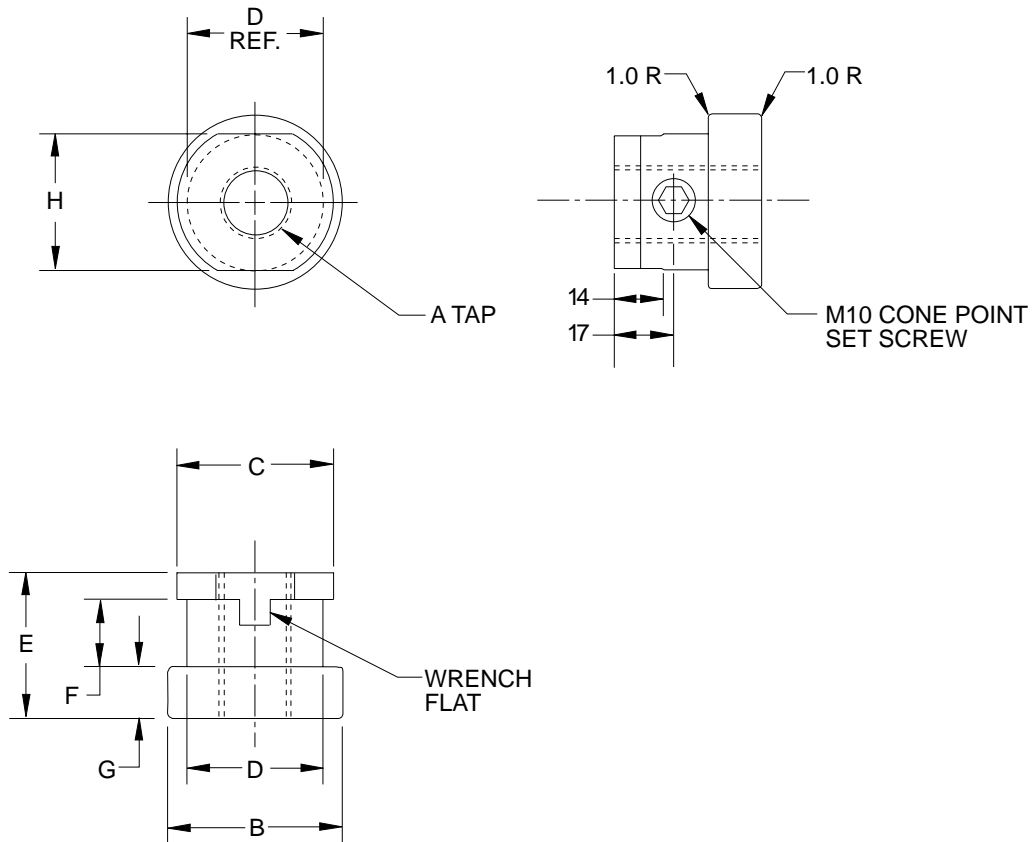
(A72 SERIES)

GLOBAL STANDARD COMPONENTS



Stamping

04/16/96



NAAMS CODE NUT	CYLINDER BORE Ø	A TAP	B	C	D	E	F	G	H	COUPLING PLATE NAAMS CODE
A721014	32	M10 x 1.25	35	30	25	30	16	10	24	A710014
A721214	40	M12 x 1.25	35	30	25	30	16	10	24	A710014
A721620	50, 63	M16 x 1.5	47	42	37	40	19	14	36	A710020
A722020	80, 100	M20 x 1.5	47	42	37	40	19	14	36	A710020
A722725	125	M27 x 2.0	57	52	47	50	24	19	46	A710025
A723625	160,200	M36 x 2.0	57	52	47	50	24	19	46	A710025
A724233	250	M42 x 2.0	76	64	59	76	50	19	60	A710033

NOTES & SPECIFICATIONS:

Material, steel

IN-LINE COUPLING

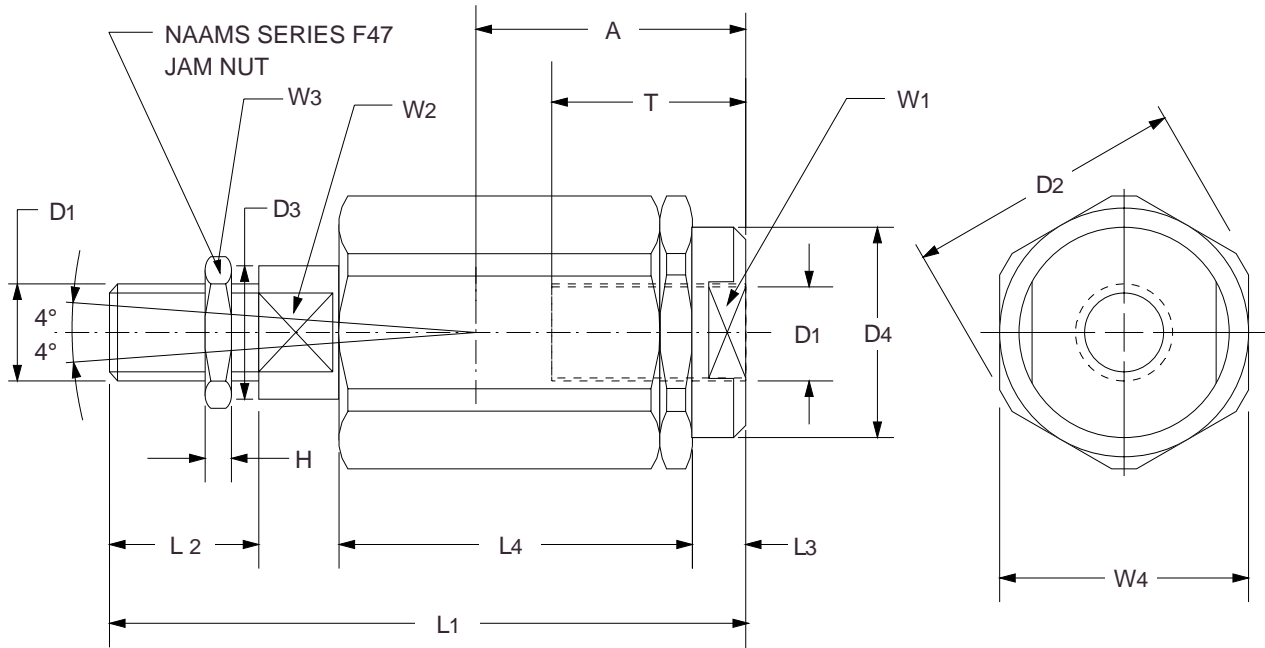
(A73 SERIES)

GLOBAL STANDARD COMPONENTS



Stamping

05/14/97



NAAMS CODE NO.	CYLINDER BORE Ø	PISTON ROD THREAD D ₁	D ₂	D ₃	D ₄	H	L ₁	L ₂	L ₃	L ₄	A	T	ACROSS WRENCH FLATS			
													W ₁	W ₂	W ₃	W ₄
A733210	32	M10 x 1.25	32	14	21.8	5	69.5	20	8	34	31	23	19	12	17	30
A734012	40	M 12 x 1.25	32	14	21.8	6	74.5	24	9	34	32	24	19	12	19	30
A735016	50,63	M 16 x 1.5	45	22	33.8	8	103	32	9	53	44.5	32	30	19	24	41
A738020	80,100	M 20 x 1.5	45	22	33.8	10	120	40	18	53	46.5	41	30	19	30	41
A731227	125	M 27 x 2	62	28	55*	13.5	147	54	-	-	58	40	55	24	41	55
A731636	160	M 36 x 2	80	38	75*	18	251	72	-	-	110	78	75	32	55	75

*Hex, not round

REAR BLOCK ADAPTER

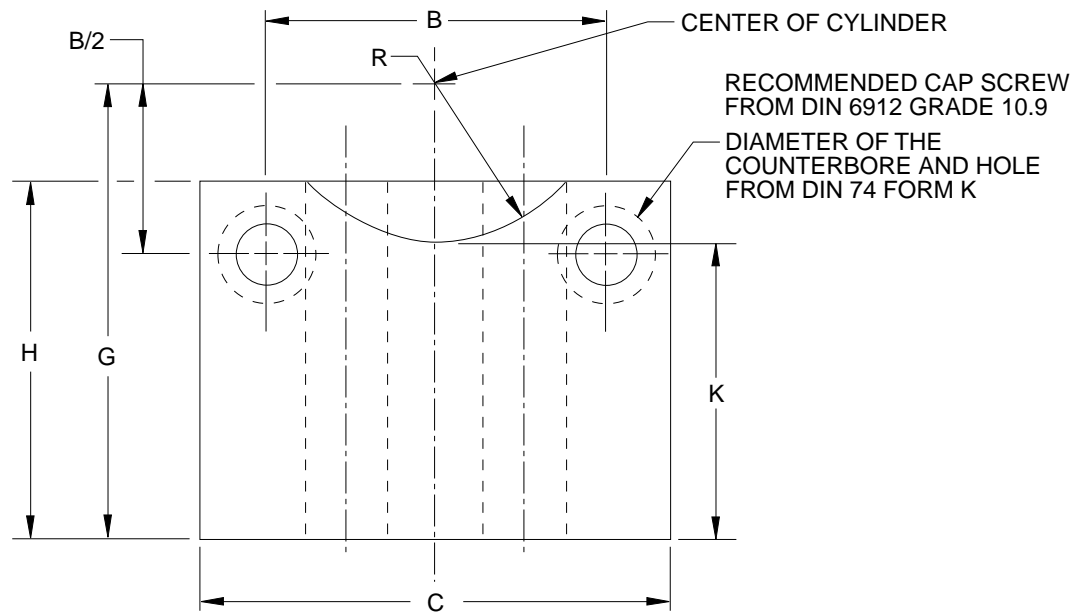
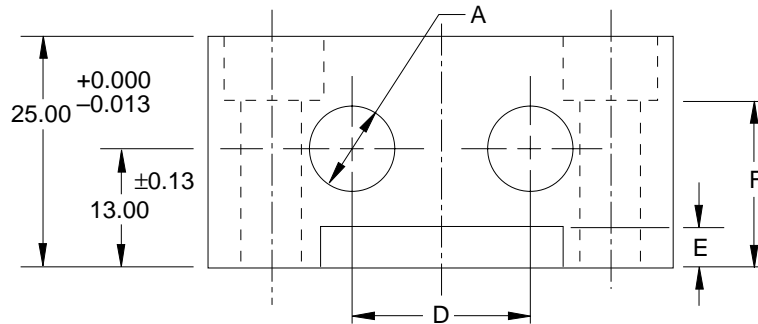
(A81 SERIES)

GLOBAL STANDARD COMPONENTS



Stamping

10/19/01



NAAMS CODE	CYLINDER BORE Ø	A H14	B		C MAX	D ±0.25	E MIN	F ±0.13	G JS15	H ±0.13	K JS14	R H15
			NOM	TOL								
A810032	32	9.0	32.5	±0.2	50	16	4.5	18.4	42	40	27.0	15.0
A810040	40	9.0	38.0	±0.2	58	20	4.5	18.4	46	40	28.5	17.5
A810050	50	11.0	46.5	±0.2	70	20	4.5	16	55	50	35.0	20.0
A810060	60	11.0	56.5	±0.2	85	30	4.5	16	60	50	37.5	22.5
A810080	80	11.0	72.0	±0.2	105	40	4.5	14	73	70	50.5	22.5
A810100	100	11.0	89.0	±0.2	130	50	4.5	14	81	70	53.5	27.5
A810125	125	11.0	110.0	±0.3	157	70	7.0	11.5	100	80	70.0	30.0
A810160	160	13.5	140.0	±0.3	195	80	7.0	7.5	125	90	----	32.5

FRONT ANGLE BRACKET

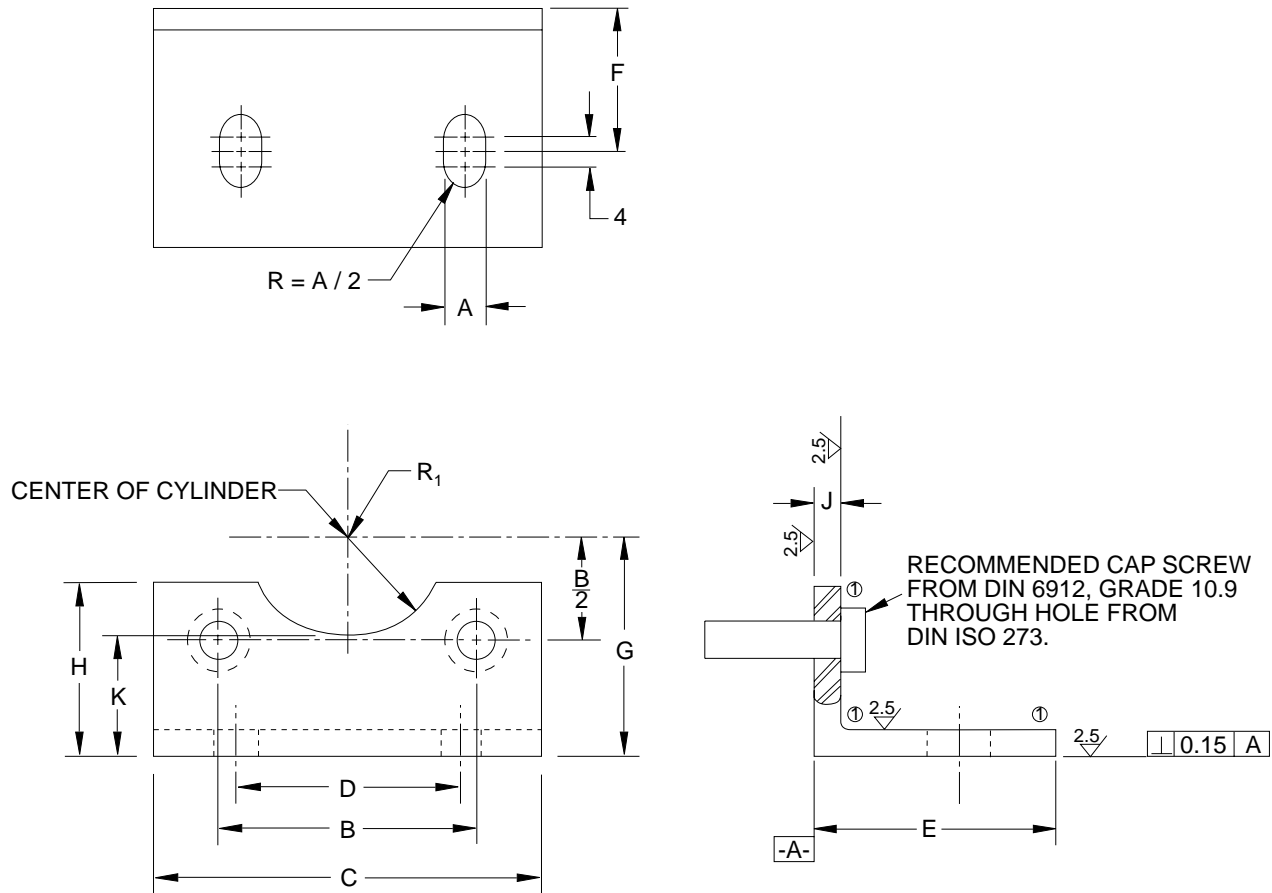
(A82 SERIES)

GLOBAL STANDARD COMPONENTS



Stamping

10/19/01



- ① Allowable rolling or bending radii should not affect head alignment of cap screw.
 Alternate: Spot face to hold dimension "J" acceptable for screw holes.

NAAMS CODE	CYLINDER BORE Ø	A H14 (X)	B		C MAX	D JS14	E MAX (X)	F ±0.2	G JS15	H ±1.0	(X) J		K JS14	R ₁ H15
			NOM	TOL							NOM	TOL		
A830032	32	6.6	32.5	±0.2	50	32	44.4	24	32	32	5	±0.7	17	15
A830040	40	9.0	38		58	36	44.4	28	36	36	5		18.5	17.5
A830050	50	9.0	46.5		70	45	50.8	32	45	45	6		25	20
A830063	63	9.0	56.5		85	50	50.8	32	50	50	6		27.5	22.5
A830080	80	11.0	72		105	63	76.2	41	63	63	8		40.5	22.5
A830100	100	13.5	89		130	75	76.2	41	71	71	8		43.5	27.5
A830125	125	13.5	110	±0.3	157	90	76.2	45	90	90	11	±1	60	30
A830160	160	17.5	140		195	115	88.9	60	115	115	13		82.5	32.5

(X) Not to VDMA

ROD END CLEVIS ASSEMBLY FOR STOCK CROWDER

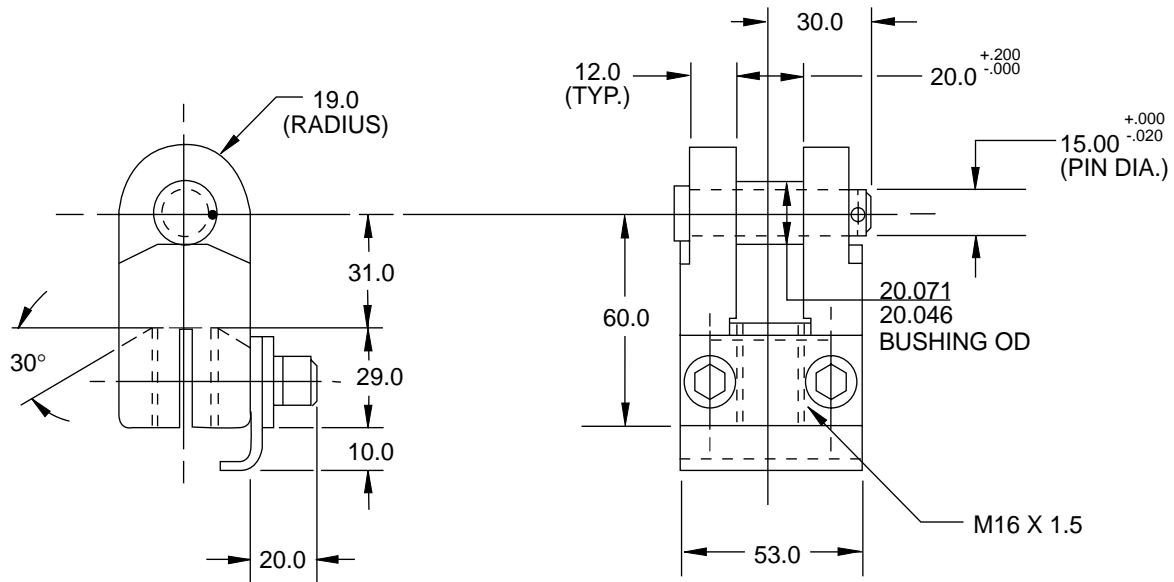
(A63 SERIES)

GLOBAL STANDARD COMPONENTS



Stamping

10/19/01



NAAMS CODE
A630516

NOTES & SPECIFICATIONS:

For use only with NAAMS Stock Crowder M17 Series.

For all other applications with 50 and 63MM cylinders, use A66 Series, NAAMS Number A660516.

AIR RESERVOIRS

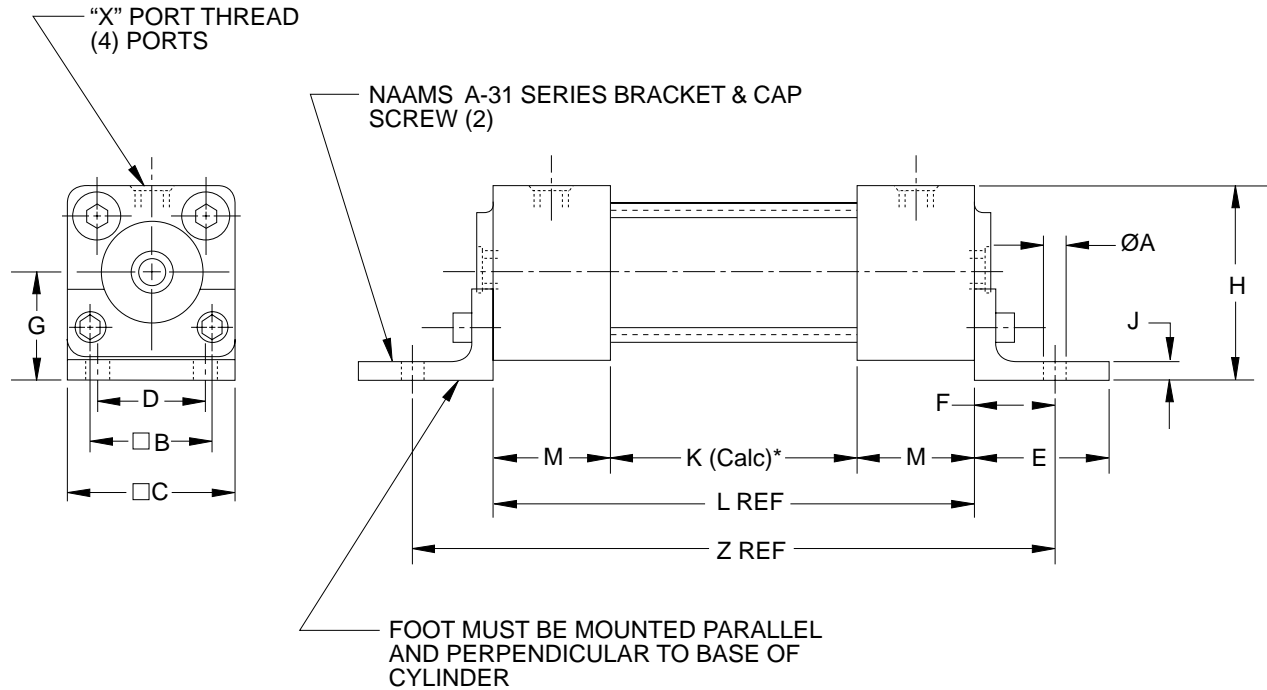
(A10 and A11 SERIES)

Service for 1 or 2 Air Cylinders

Either round or extruded main body is acceptable

Unspecified dimensions conform to VDMA 24 562

Recommended Volume: 7 x to 10 x total swept volume of cylinder(s)



$$*K = \frac{\text{Volume}}{0.785 B_c^2}$$

Cylinder Bore B _c	NAAMS Code		B	C Max	G JS 15	H Ref	L Max Ref JS 15	M Max	"X" Port Size	Z Ref
	NPT Ports	BSP Ports								
100	A101000	A111000	89 ±0.2	130	71	136	K + 102	51	1/2	184 + K
125	A101200	A111200	110 ±0.3	157	90	168.5	K + 124	62	1/2	214 + K
160	A101600	A111600	140 ±0.3	195	115	212.5	K + 140	70	3/4	260 + K

Cylinder Bore B _c	NAAMS Bracket	øA H14	D JS 14	E Max	F ±0.2	J Min
100	A310100	14	75	76.2	41	8
125	A310125	16	90	76.2	45	11
160	A310160	18	115	88.9	60	13