

DOUBLE-ACTION AIR CYLINDER & COMPONENTS INDEX

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DOUBLE-ACTION CYLINDER

(VDMA 24 562)
(A00 SERIES)

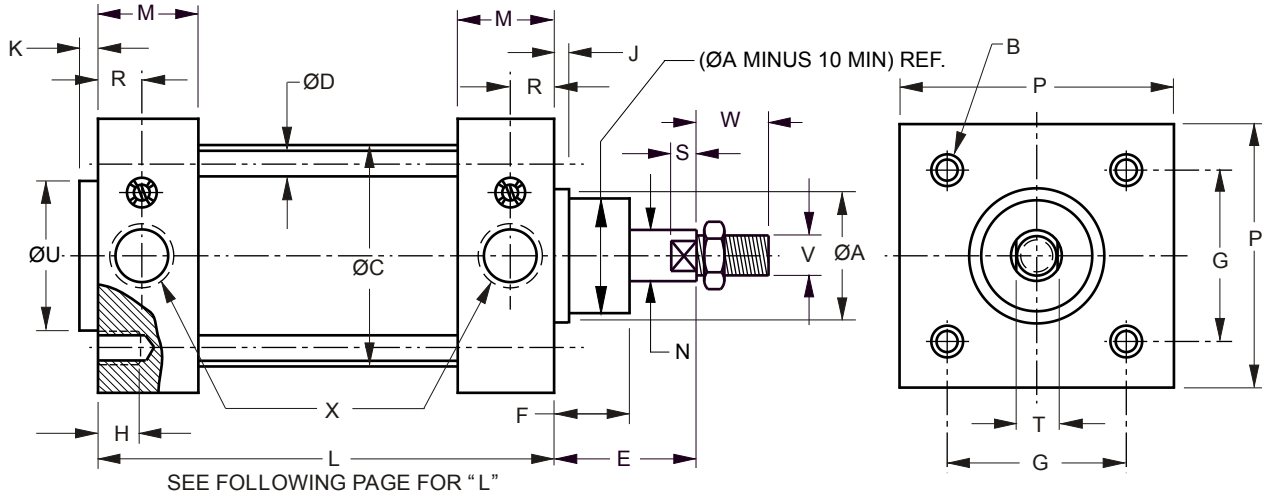
GLOBAL STANDARD COMPONENTS



Stamping

06/17/13

WITHOUT MOUNTING BRACKETS



CYL BORE	A d11	B	C MAX.	D	E	F	G	H MIN	J MIN	K -1	M MAX	N	MIN. TUBING SIZE (O.D.)		
32	30	M6	37	≤B	26	±1.4	20 +0/-5	32.5 ±0.5	16	4	4	35	12	8	
40	35	M6	45		30		22 +0/-5	38 ±0.5	16	4	4	4	39		16
50	40	M8	55		37		29 +0/-5	46.5 ±0.6	16	4	4	4	39		20
63	45	M8	68		37	±1.8	29 +0/-5	56.5 ±0.7	16	4	4	4	46	20	12
80	45	M10	86		46		35 +0/-5	72 ±0.7	16	4	4	4	48	25	
100	55	M10	107		51		38 +0/-5	89 ±0.7	16	4	4	4	51	32	
125	60	M12	133		65	±2.2	50 +0/-10	110 ±1.1	20	6	6	6	62	40	16
160	65	M16	170		80		60 +0/-10	140 ±1.1	24	6	6	6	70	40	
200	75	M16	212		95		65 +0/-15	175 ±1.1	24	6	6	6	70	40	

CYL BORE	P MAX	R MIN	S MIN	T	U d11	V ISO 4395	W NOM	X ISO 16030	STROKE LENGTH TOLERANCE	FORCE @ 4 BAR		
										EXTEND	RETRACT	
32	50	13	6	10	30	M10x1.25	22	G1/8	+2	322 N	276 N	
40	58	14	6.5	13	35	M12x1.25	24			G1/4	503 N	422 N
50	70	14	8	17	40	M16x1.5	32			G1/4	785 N	660 N
63	85	16	8	17	45	M16x1.5	32	G3/8	+2.5	1247 N	1121 N	
80	105	16	10	22	45	M20x1.5	40			G3/8	2011 N	1814 N
100	130	18	10	22	55	M20x1.5	40	G1/2	-0	3142 N	2820 N	
125	157	18	13	27	60	M27x2	54			G1/2	4909 N	4408 N
160	195	25	16	36	65	M36x2	72			G3/4	8040 N	7256 N
200	238	25	16	36	75	M36x2	72	G3/4	-0	12560N	11770N	

NOTES & SPECIFICATIONS:

- All cylinders are cushioned both ends and fully ported.
- All cylinders are compliant with ISO 15552
- All cylinders to be "heavy duty" construction with no plastic pistons allowed.
- All cylinders supplied with hex jam nut - fine thread.
- Manufacturer's logo to appear on cylinder.
- Port and cushion can be offset from center.
- Stroke lengths: 25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500 mm.
- When a female rod end or any other modification is required - cylinder must be ordered as a 'special'.
- Maximum operating pressure: 1 MPa (10 bar).

CODING ON FOLLOWING PAGE

DOUBLE-ACTION CYLINDER CODING

(A00 SERIES)

GLOBAL STANDARD COMPONENTS



Stamping

06/17/13

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
A002002	200 x 25	205±1.6
A002005	200 x 50	230±1.6
A002008	200 x 80	260±1.6
A002010	200 x 100	280±1.6
A002012	200 x 125	305±1.6
A002016	200 x 160	340±1.6
A002020	200 x 200	380±1.6
A002025	200 x 250	430±1.6
A002032	200 x 320	500±1.6
A002040	200 x 400	580±1.6
A002050	200 x 500	680±1.6

C
A
D
B

FLANGE MOUNT

(ISO 15552)(MF1-2)

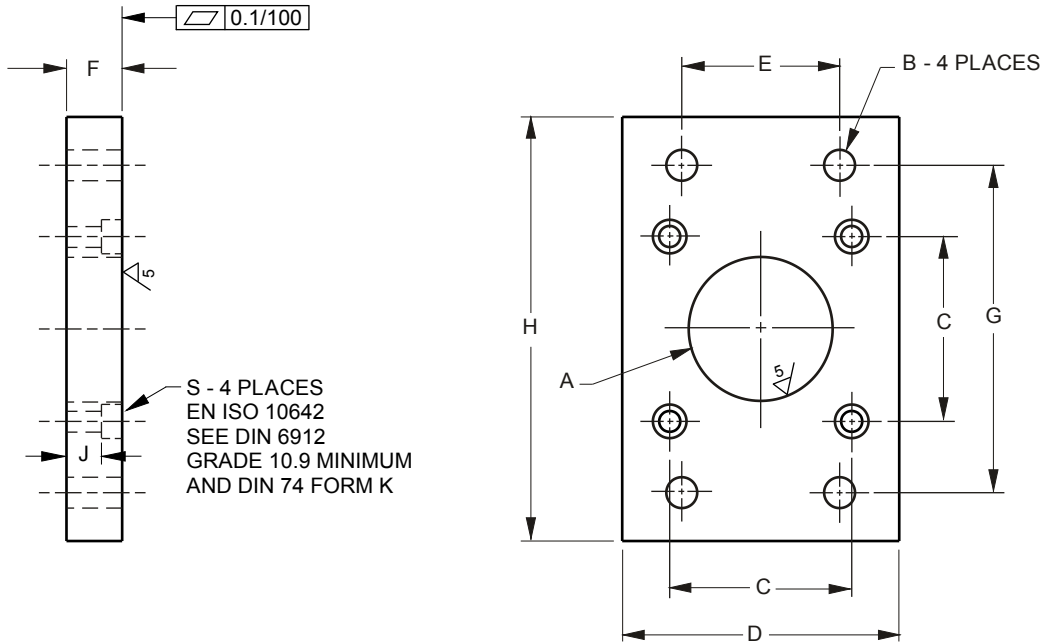
(A21 SERIES)

GLOBAL STANDARD COMPONENTS



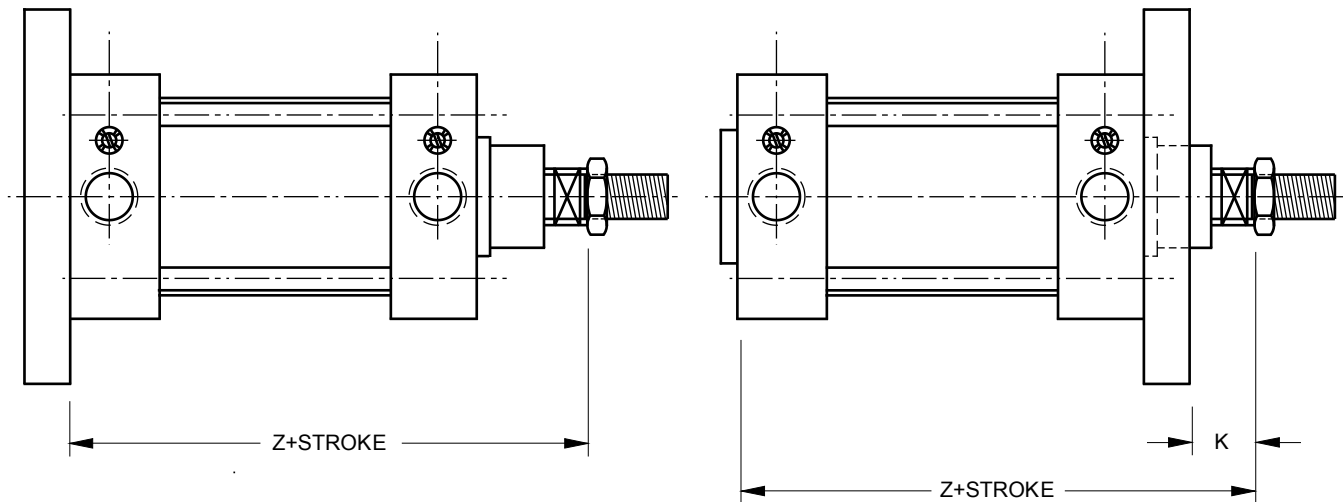
Stamping

06/17/13



NAAMS CODE	CYLINDER BORE	A H11	B H13	C	D MAX	E JS14	F JS14	G JS14	H MAX	J +0/-0.5	K	Z	S
A210032	32	30	7	32.5±0.2	50	32	10	64	86	5.0	16±1.6	120±1.25	FOR M6
A210040	40	35	9	38±0.2	58	36	10	72	96	5.0	20±1.6	135±1.25	FOR M6
A210050	50	40	9	46.5±0.2	70	45	12	90	115	6.5	25±1.6	143±1.25	FOR M8
A210063	63	45	9	56.5±0.2	85	50	12	100	130	6.5	25±2.0	158±1.6	FOR M8
A210080	80	45	12	72±0.2	105	63	16	126	165	9.0	30±2.0	174±1.6	FOR M10
A210100	100	55	14	89±0.2	130	75	16	150	187	9.0	35±2.0	189±1.6	FOR M10
A210125	125	60	16	110±0.3	157	90	20	180	224	10.5	45±2.5	225±2.0	FOR M12
A210160	160	65	18	140±0.3	195	115	20	230	280	9.5	60±2.5	260±2.0	FOR M16
A210200	200	75	22	175±0.3	238	135	25	270	320	12.5	70±2.5	275±2.0	FOR M16

A



NOTES & SPECIFICATIONS:

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

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

FOOT MOUNT BRACKET

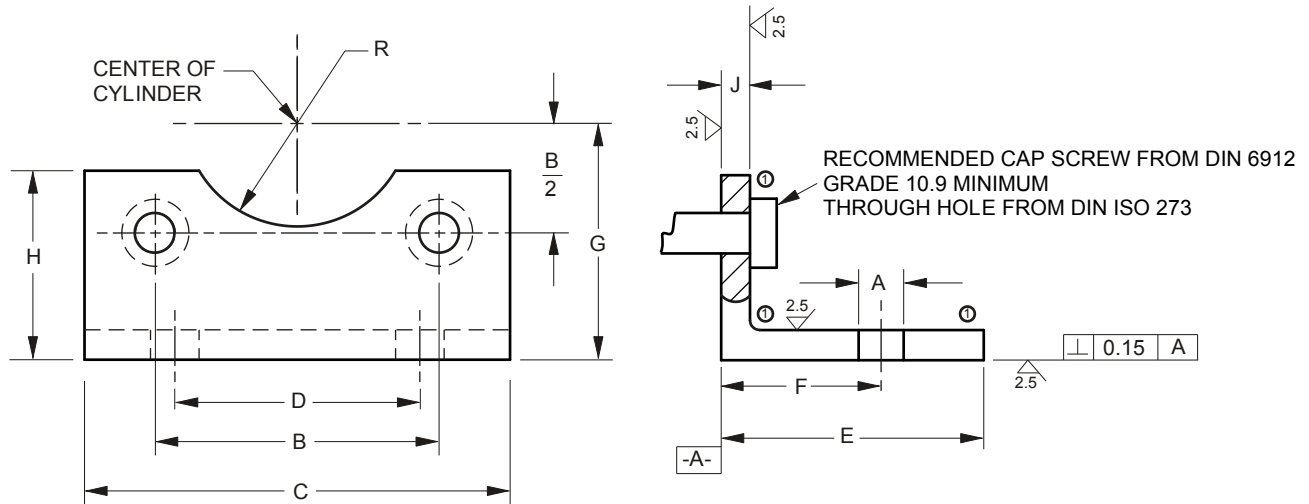
(ISO 15552)(MS1)
(A31 SERIES)

GLOBAL STANDARD COMPONENTS

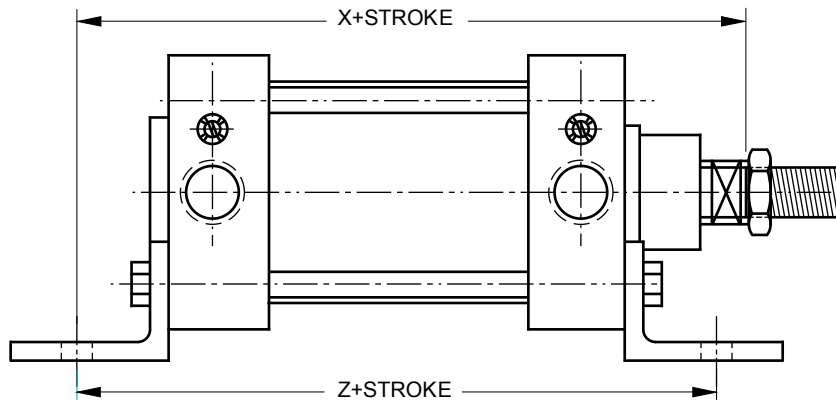


Stamping

06/17/13



NAAMS CODE	CYLINDER BORE Ø	A H14	B	C MAX	D JS14	E MAX	F ±0.2	G JS16	H MAX	J	R H15	Z	X
A310032	32	7	32.5±0.2	50	32	35	24	32	32	4.0±0.3	15	142±1.25	144±1.25
A310040	40	10	38.0±0.2	58	36	43	28	36	36	4.0±0.3	17.5	161±1.25	163±1.25
A310050	50	10	46.5±0.2	70	45	47	32	45	45	5.0±0.3	20	170±1.25	175±1.25
A310063	63	10	56.5±0.2	85	50	47	32	50	50	5.0±0.5	22.5	185±1.6	190±1.6
A310080	80	12	72±0.2	105	63	61	41	63	63	6.0±0.5	22.5	210±1.6	215±1.6
A310100	100	14.5	89±0.2	130	75	66	41	75	71	6.0±0.5	27.5	220±1.6	230±1.6
A310125	125	16.5	110±0.3	157	90	70	45	90	90	8.0±1.0	30	250±2	270±2
A310160	160	18.5	140±0.3	195	115	85	60	115	115	10.0±1.0	32.5	300±2	320±2
A310200	200	24	175±0.3	238	135	105	70	135	135	12.0±1.0	37.5	320±2	345±2



NOTES & SPECIFICATIONS:

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

A

TRUNNION MOUNT BRACKET

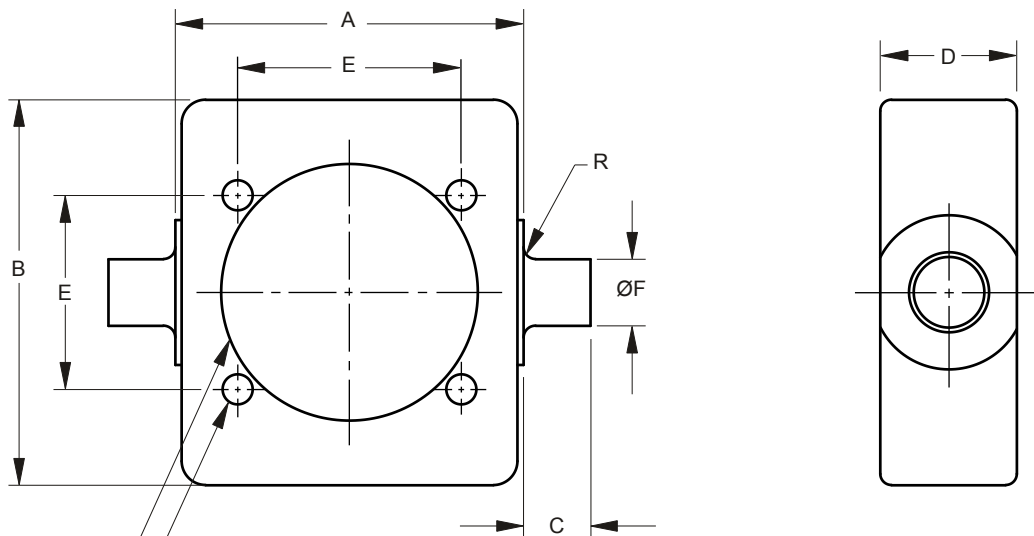
(ISO 15552)(MT4)
(A41 SERIES)

GLOBAL STANDARD COMPONENTS



Stamping

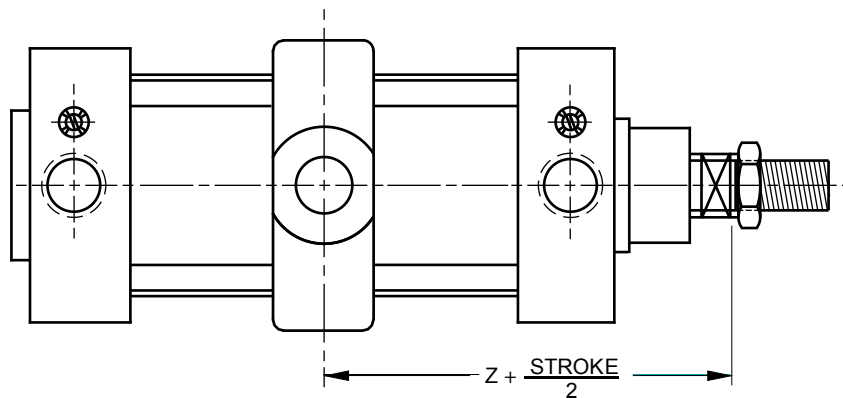
06/17/13



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	CYL BORE Ø	A h14	B MAX	C h14	D MAX	E		F e9	R MAX	Z	
						NOM	TOL			NOM	TOL
A410032	32	50	65	12	25	32.5	±0.2	12	1	73	±0.2
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	±2.5
A410125	125	160	175	25	50	110		25	2	145	
A410160	160	200	220	32	50	140		32	2.5	170	
A410200	200	250	260	32	50	175		32	2.5	185	

A



NOTES & SPECIFICATIONS:

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

CLEVIS MOUNT BRACKET

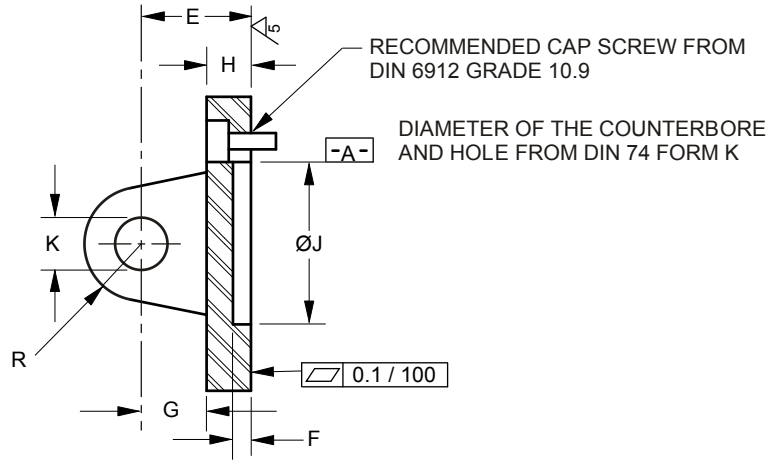
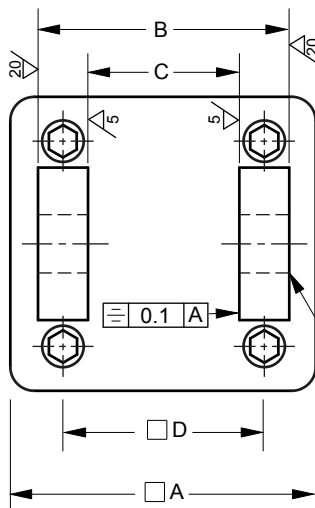
(ISO 15552(MP2))
(A51 SERIES)

GLOBAL STANDARD COMPONENTS



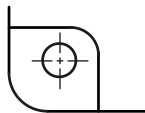
Stamping

06/17/13

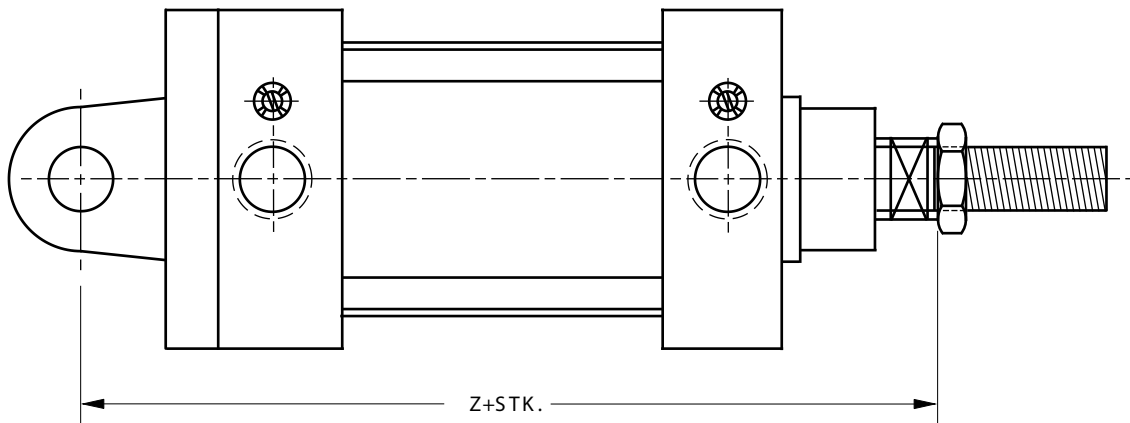


ALTERNATIVE DESIGN WITH BEARING AVAILABLE

ALTERNATIVE WAY TO FORM THE COUNTERBORE



NAAMS CODE	BORE Ø	A MAX	B h14	C H14	D NOM	TOL	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	10	30	10	11	142	±1.25
A510040	40	58	52	28	38		25	4.5	15	10	35	12	13	160	
A510050	50	70	60	32	46.5		27	4.5	15	12	40	12	13	170	
A510063	63	85	70	40	56.5		32	4.5	20	12	45	16	17	190	
A510080	80	105	90	50	72	±0.3	36	4.5	20	16	45	16	17	210	±1.6
A510100	100	130	110	60	89		41	4.5	25	16	55	20	21	230	
A510125	125	157	130	70	110		50	7.0	30	20	60	25	26	275	
A510160	160	195	170	90	140		55	7.0	35	20	65	30	31	315	
A510200	200	238	170	90	175	60	7.0	35	25	75	30	31	335	±2.0	



NOTES & SPECIFICATIONS:

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

A

PIVOT MOUNT BRACKET

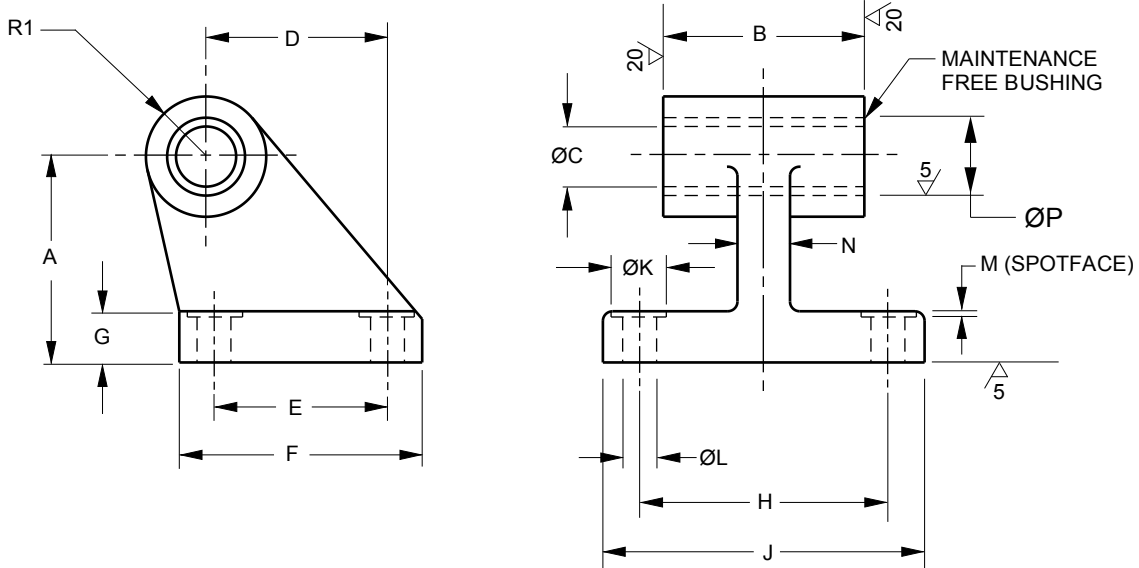
(ISO 1552)(AB7)
(A61 SERIES)

GLOBAL STANDARD COMPONENTS

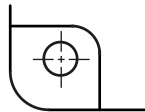


Stamping

06/17/13



ALTERNATIVE WAY TO FORM THE COUNTERBORE



NAAMS CODE	CYL. BORE	A JS15	B	C H9	D JS14	E JS14	F MAX	G MAX	H JS14	J MAX	R1 MAX	K MIN	L H13	M MAX	N MAX	P H7
A611032	32	32	26 ^{-0.2} _{-0.6}	10	21	18	31	8	38	51	10	11	6.6	1.6	12	12
A611240	40	36	28 ^{-0.2} _{-0.6}	12	24	22	35	10	41	54	11	11	6.6	1.6	12	14
A611250	50	45	32 ^{-0.2} _{-0.6}	12	33	30	45	12	50	65	13	15	9.0	1.6	16	14
A611663	63	50	40 ^{-0.2} _{-0.6}	16	37	35	50	12	52	67	15	15	9.0	1.6	16	18
A611680	80	63	50 ^{-0.2} _{-0.6}	16	47	40	60	14	66	86	15	18	11	2.5	20	18
A612010	100	71	60 ^{-0.2} _{-0.6}	20	55	50	70	15	76	96	19	18	11	2.5	20	23
A612512	125	90	70 ^{-0.5} _{-1.5}	25	70	60	90	20	94	124	22.5	20	14	3.2	30	28
A613016	160	115	90 ^{-0.5} _{-1.5}	30	97	88	126	25	118	156	31.5	20	14	4	36	34
A613020	200	135		30	105	90	130	30	122	162		26	18	4	40	34

A

CLEVIS PIN

(ISO 15552)(AA4)
(A64 SERIES)

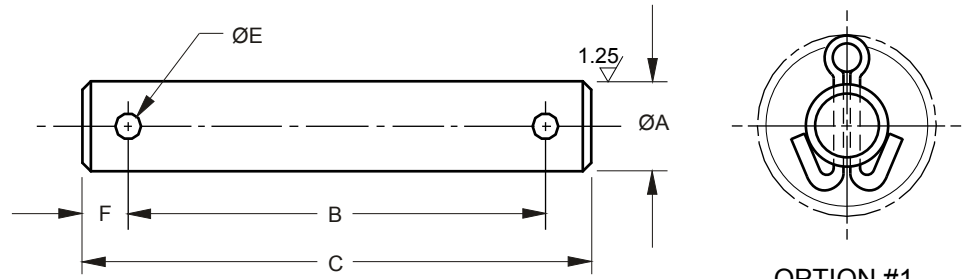
GLOBAL STANDARD COMPONENTS



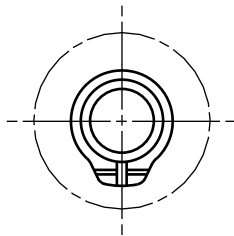
Stamping

06/17/13

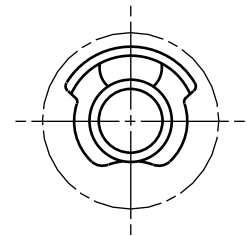
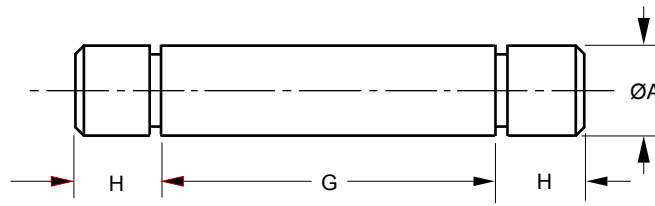
FOR CLEVIS & PIVOT BRACKET MOUNTS



OPTION #1



OPTION #2



OPTION #3

A

NAAMS CODE	CYL. BORE Ø	A e8	B -0.0 +0.5	C MAX	E H14	F MAX	G	H
A643264	32	10	53	64	3.2	4.5	48	4.5
A644076	40	12	62	76	4.0	6	55	5
A645085	50	12	70	85	4.0	6	63	5
A646395	63	16	81	95	4.0	6	73	5
A648011	80	16	101	116	4.0	6	93	5
A641013	100	20	123	136	5.0	6	113	5
A641216	125	25	146	166	6.3	9	135	7
A641620	160, 200	30	188	208	8.0	9	175	7

NOTES & SPECIFICATIONS:

Pin to be supplied with 2 - cotter pins & 2 - flat washers. (For option #1) or 2 clips (for options #2 and #3)
Surfaces conform to DIN EN ISO 1302 (No Burrs)

TRUNNION PILLOW BLOCK

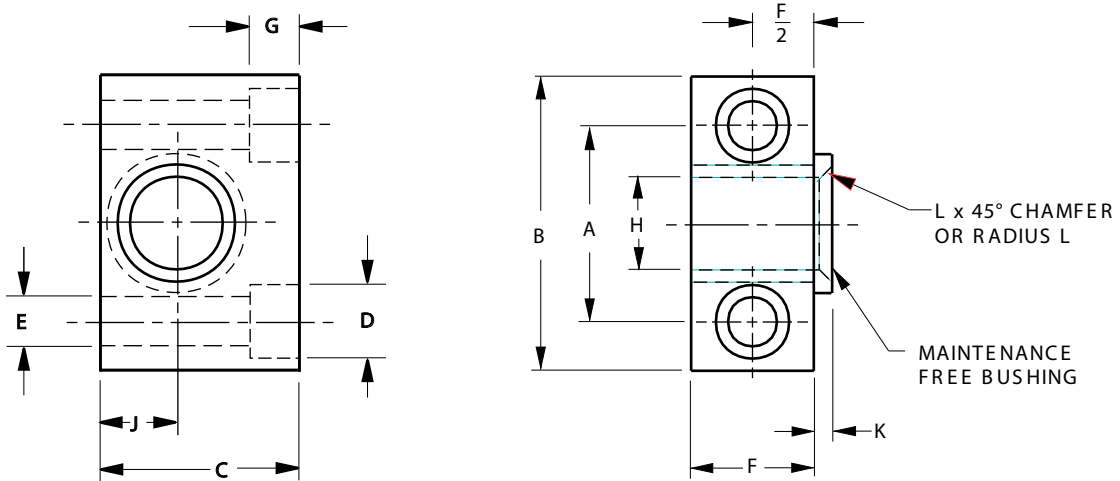
(ISO 15552)(AT4)
(A62 SERIES)

GLOBAL STANDARD COMPONENTS



Stamping

06/17/13



A

NAAMS CODE	CYL. BORE Ø	A	B	C	D	E H13	F	G	H H9	J	K	L	SCREW SIZE
A621332	32	32±0.2	46	30	11	6.6	15	8	12	15±0.1	3	1.0	M6
A621545	40/50	36±0.2	55	36	15	9	18	9	16	18±0.1	3	1.6	M8
A621668	63/80	42±0.2	65	40	18	11	20	11	20	20±0.1	3	1.6	M10
A622011	100/125	50±0.2	75	50	20	13.5	25	13	25	25±0.1	3.5	2.0	M12
A622516	160/200	60±0.3	92	60	26	18	35	17	32	30±0.2	5	2.5	M16

NOTES & SPECIFICATIONS:

Order 2 per cylinder.

TRUNNION PILLOW BLOCK MOUNTING BRACKET

(A65 SERIES)

GLOBAL STANDARD COMPONENTS

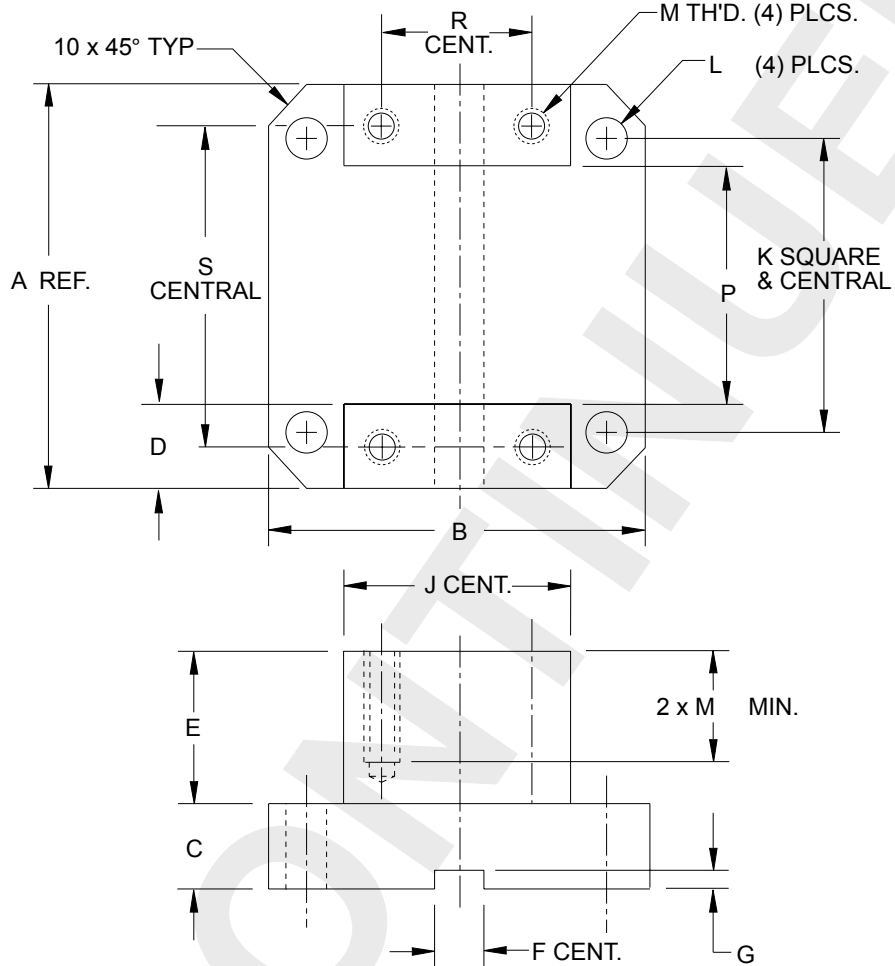
NAAMS



Stamping

06/17/13

A



NAAMS CODE	CYL. BORE	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)

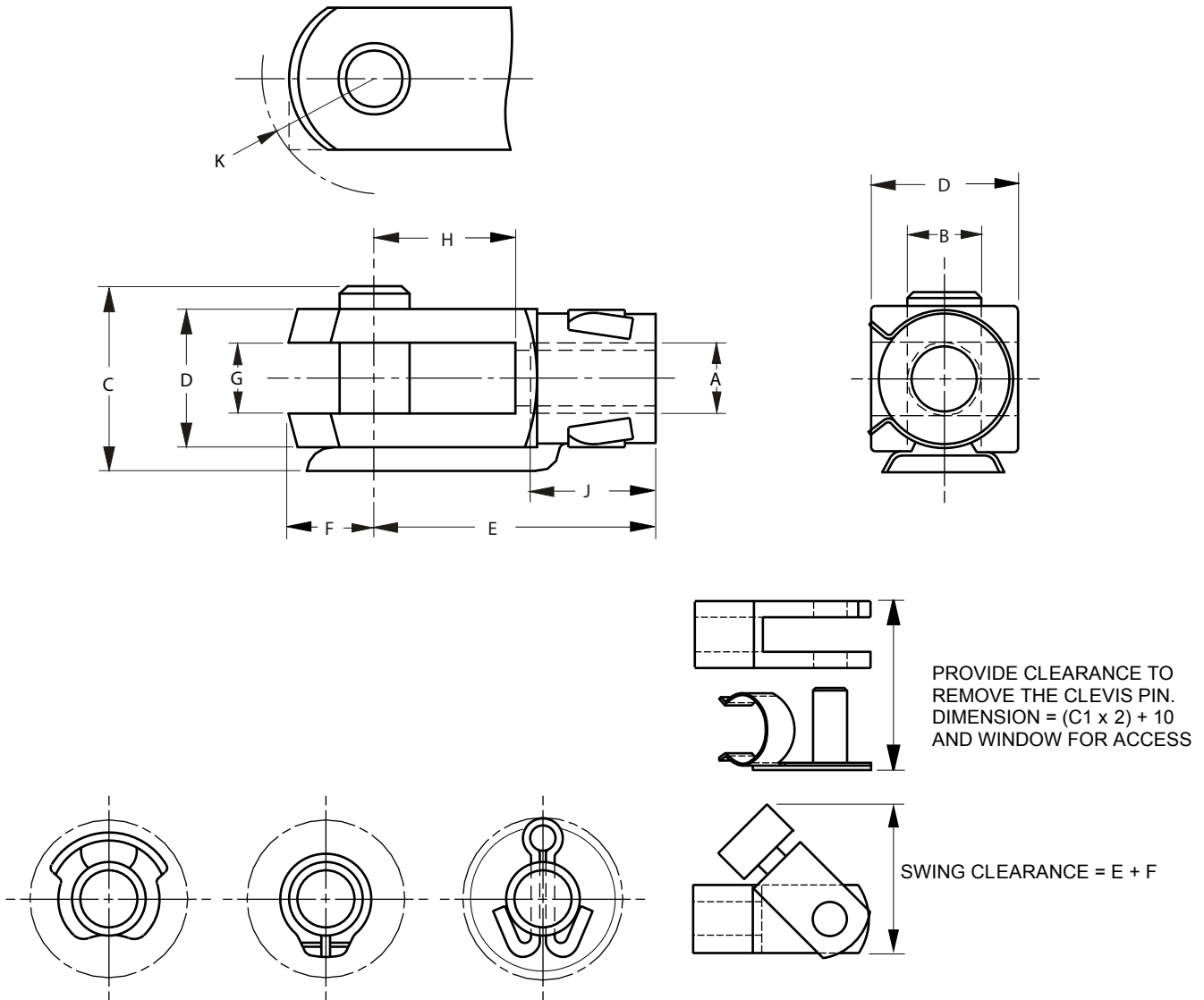
GLOBAL STANDARD COMPONENTS



Stamping

06/17/13

(REPLACES A63 SERIES)



A

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		20	20	16
A660412	40	M 12 x 1.25	12	31.0	24	48	14	12	+0.50	24	22	19
A660516	50, 63	M 16 x 1.50	16	39.0	32	64	19	16	+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	+0.60	54	51	45
A661636	160, 200	M 36 x 2.00	35	90.5	70	144	44	35	+0.15	72	56	57

NOTES & SPECIFICATIONS:

Conforms to DIN 71752.

Clevis pin may be: pin with integral retaining clip, headed pin, or double ended pin with one of the retaining methods shown above. To be used with corresponding jam nut.

COUPLING PLATE

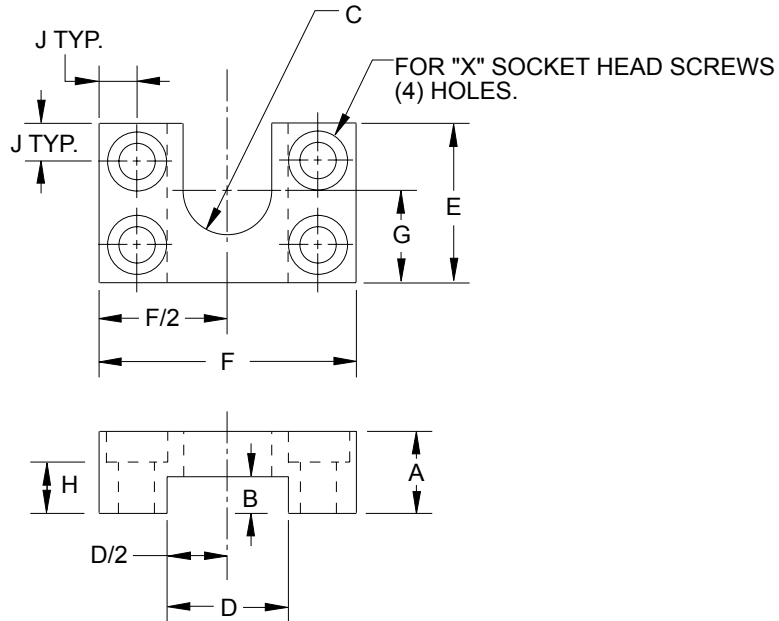
(A71 SERIES)

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

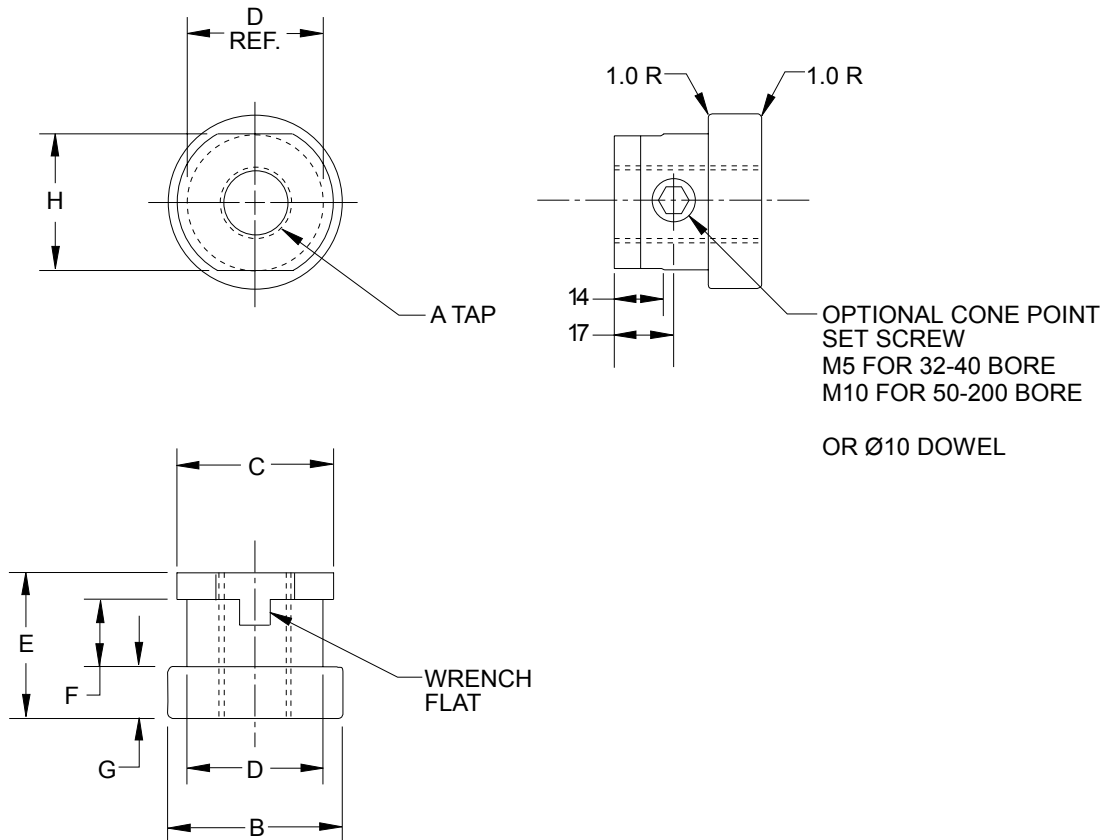
(A72 SERIES)

GLOBAL STANDARD COMPONENTS



Stamping

06/17/13



A

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)

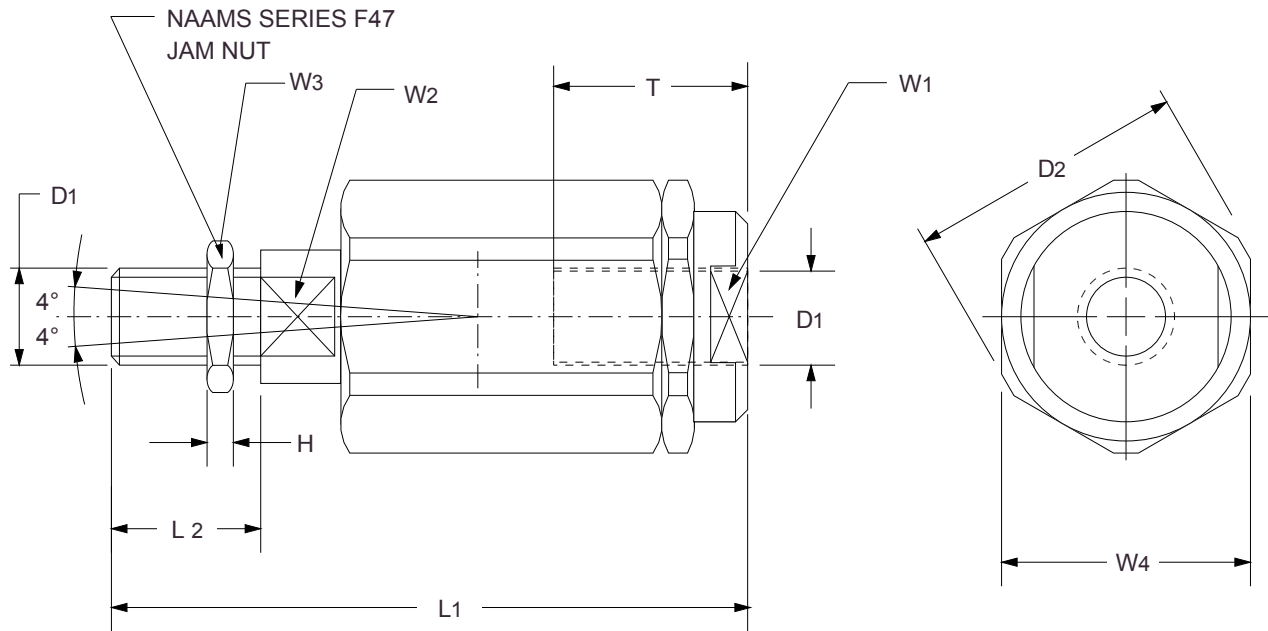
GLOBAL STANDARD COMPONENTS



Stamping

06/17/13

A



NAAMS CODE NO.	CYLINDER BORE Ø	PISTON ROD THREAD D ₁	D ₂	H	L ₁ MIN	L ₂ MIN	T MIN	ACROSS WRENCH FLATS			
								W ₁ MIN	W ₂	W ₃	W ₄
A733210	32	M10 x 1.25	32	5	69.5	20	23	19	12	17	30
A734012	40	M 12 x 1.25	32	6	67	24	23	19	12	19	30
A735016	50,63	M 16 x 1.5	45	8	103	32	32	30	19	24	41
A738020	80,100	M 20 x 1.5	45	10	120	39	41	30	19	30	41
A731227	125	M 27 x 2	62	13.5	145	48	40	32	24	41	55
A731636	160, 200	M 36 x 2	80	18	250	65	50	50	32	55	75

*Hex, not round

REAR BLOCK ADAPTER

(A81 SERIES)

GLOBAL STANDARD COMPONENTS

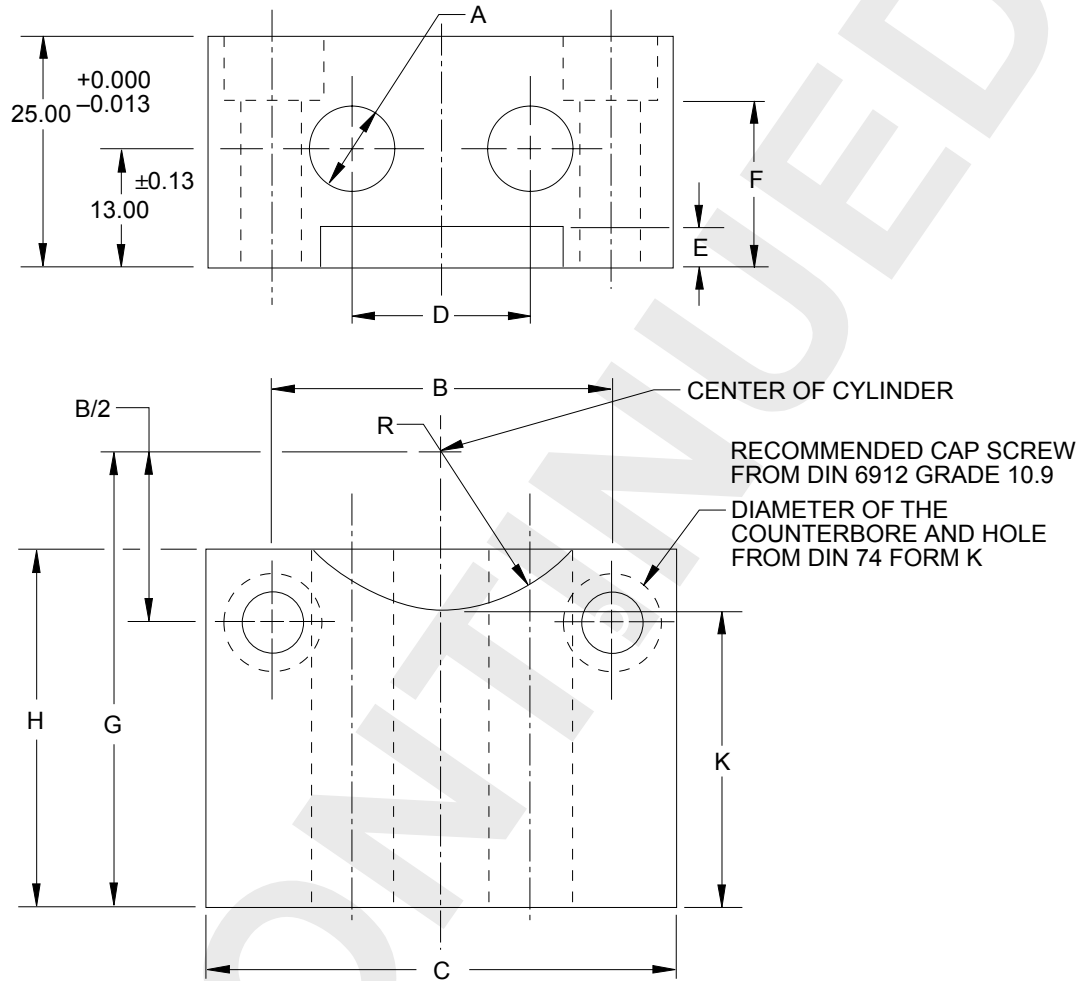
TM **NAAMS**



Stamping

06/17/13

A



NAAMS CODE	CYLINDER BORE	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)

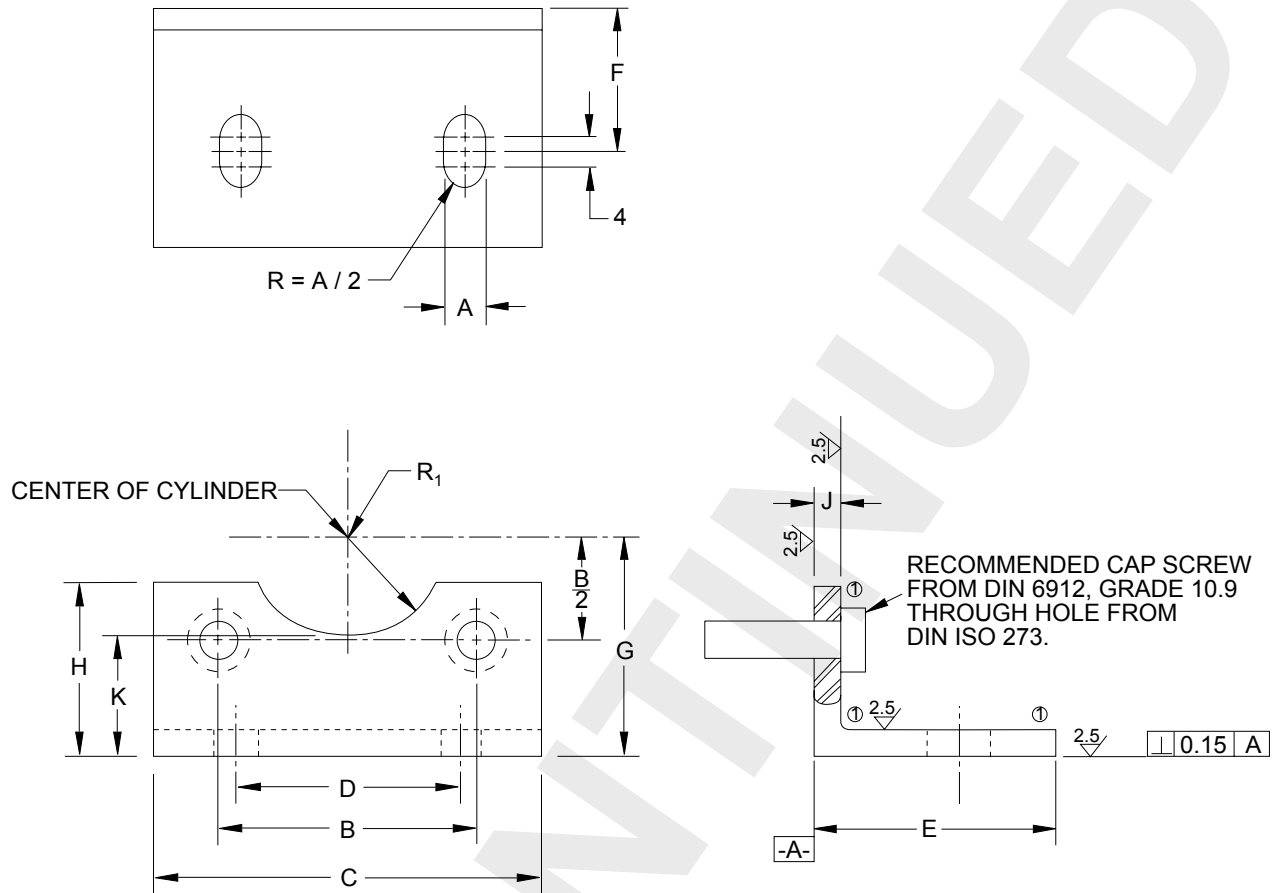
GLOBAL STANDARD COMPONENTS



Stamping

06/17/13

A



- 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	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

Not to VDMA

ROD END CLEVIS ASSEMBLY FOR STOCK CROWDER

(A63 SERIES)

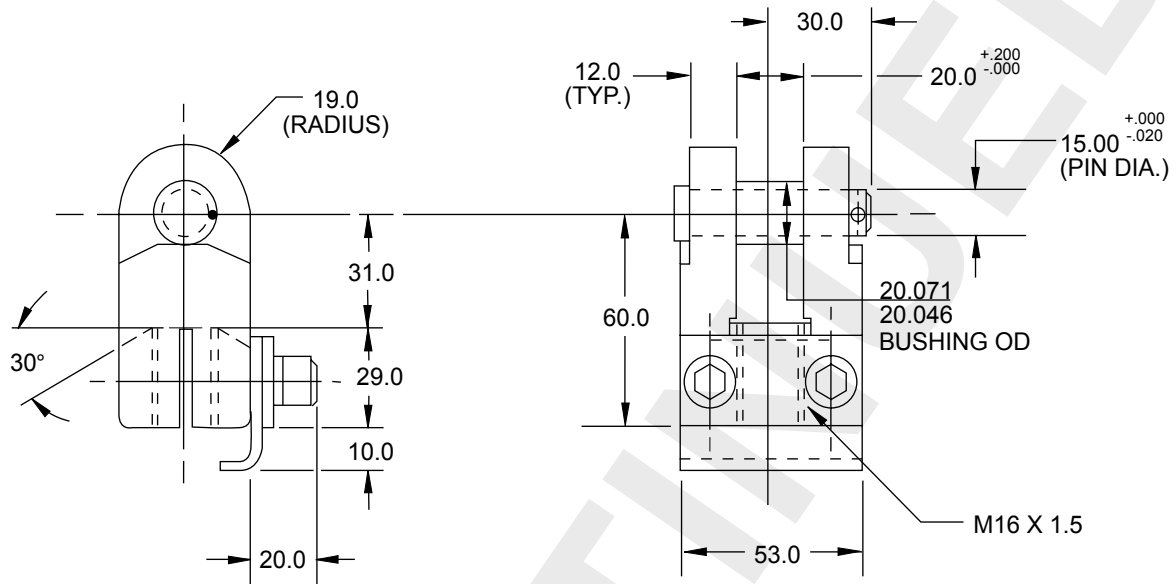
GLOBAL STANDARD COMPONENTS



Stamping

06/17/13

A



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)

GLOBAL STANDARD COMPONENTS



Stamping

06/17/13

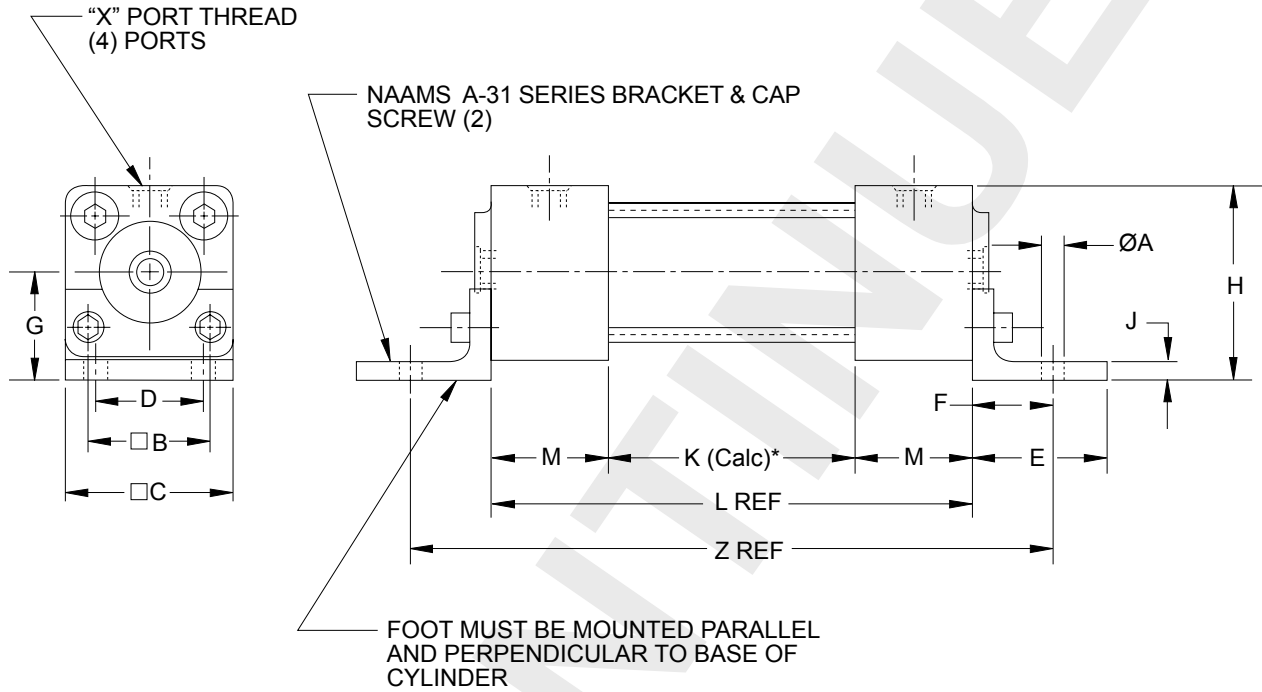
A

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

WIDE FLANGE MOUNT (FRONT OR REAR)

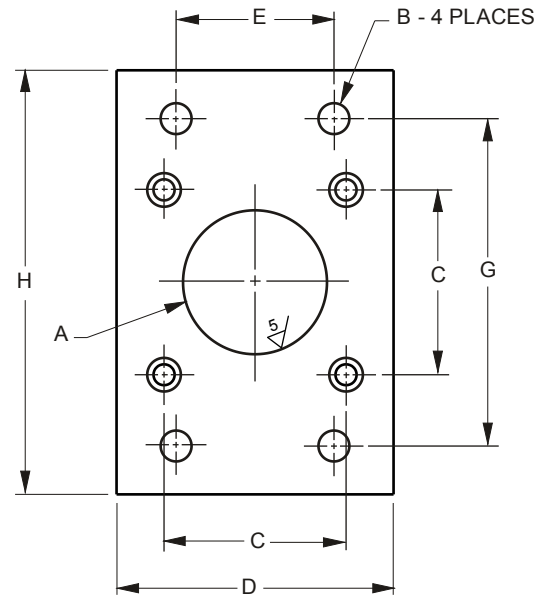
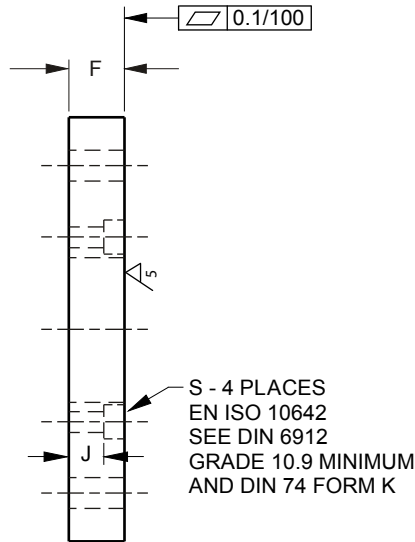
(A22 SERIES)

GLOBAL STANDARD COMPONENTS

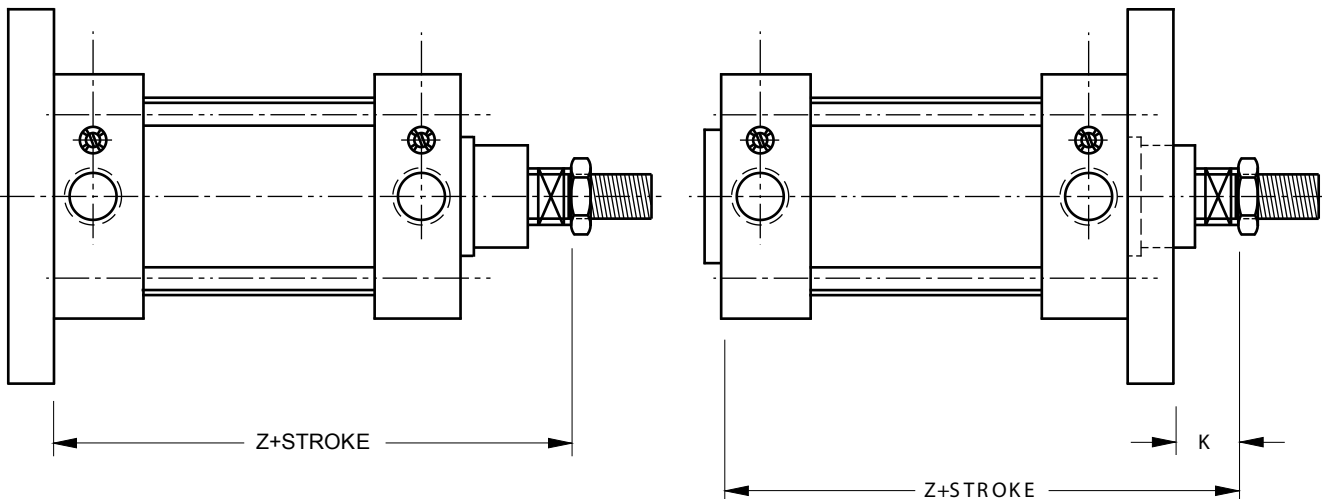


Stamping

06/17/13



NAAMS CODE	CYLINDER BORE	A H11	B H13	C	D MAX	E JS14	F JS14	G JS14	H MAX	J +/-0.5	K	Z	S
A220032	32	30	7	32.5±0.2	50	32	10	100	115	5.0	16±1.6	120±1.25	FOR M6
A220040	40	35	9	38±0.2	58	36	10	105	125	5.0	20±1.6	135±1.25	FOR M6
A220050	50	40	9	46.5±0.2	70	45	12	120	140	6.5	25±1.6	143±1.25	FOR M8
A220063	63	45	9	56.5±0.2	85	50	12	135	155	6.5	25±2.0	158±1.6	FOR M8
A220080	80	45	12	72±0.2	105	63	16	155	180	9.0	30±2.0	174±1.6	FOR M10
A220100	100	55	14	89±0.2	130	75	16	185	210	9.0	35±2.0	189±1.6	FOR M10
A220125	125	60	16	110±0.3	157	90	20	210	235	10.5	45±2.5	225±2.0	FOR M12
A220160	160	65	18	140±0.3	195	115	20	250	280	9.5	60±2.5	260±2.0	FOR M16
A220200	200	75	22	175±0.3	238	135	25	300	335	12.5	70±2.5	275±2.0	FOR M16



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