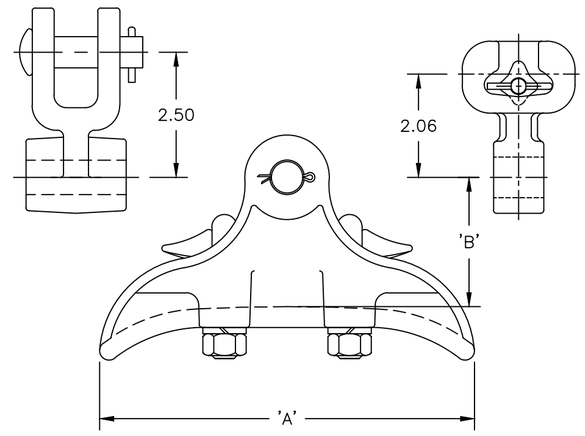
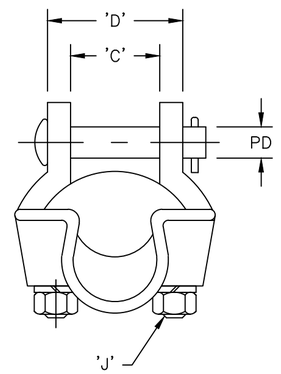
CATALOG NUMBER	TYPE OF FITTING	CLAMPING RANGE MIN.	CLAMPING RANGE MAX.	A	B	C	D	J	PD	ULTIMATE STRENGTH IN LBS.	APPROX. SHIP WT. LBS. EA.
HAS–85–S	SOCKET	.40	.85	7.50	2.56	1.12	1.84	.50	.63	18,000	3.35
HAS–85–C	CLEVIS										3.35
HAS–85–N	NONE										2.10
HAS–104–S	SOCKET	.50	1.04	8.12	2.75	1.25	1.97	.50	.63	25,000	3.75
HAS–104–C	CLEVIS										3.75
HAS–104–N	NONE										2.50
HAS–118–S	SOCKET	.70	1.18	8.00	2.75	1.34	2.41	.50	.63	25,000	4.95
HAS–118–C	CLEVIS										4.65
HAS–118–N	NONE										3.25
HAS–129–S	SOCKET	.90	1.29	8.91	3.06	1.50	2.44	.50	.63	25,000	4.50
HAS–129–C	CLEVIS										4.50
HAS–129–N	NONE										3.10
HAS–139–S	SOCKET	.90	1.39	8.88	3.00	1.62	2.56	.50	.63	25,000	4.60
HAS–139–C	CLEVIS										4.60
HAS–139–N	NONE										3.25
HAS–147–S	SOCKET	1.00	1.47	9.19	3.12	1.72	2.64	.50	.63	25,000	5.00
HAS–147–C	CLEVIS										5.00
HAS–147–N	NONE										3.50
HAS–162–S	SOCKET	1.10	1.62	9.50	3.08	1.78	2.78	.50	.63	25,000	5.25
HAS–162–C	CLEVIS										5.25
HAS–162–N	NONE										3.75
HAS–182–S	SOCKET	1.25	1.82	10.00	3.37	2.06	3.00	.50	.63	25,000	6.80
HAS–182–C	CLEVIS										7.00
HAS–182–N	NONE										5.00
HAS–204–S	SOCKET	1.40	2.04	10.50	3.53	2.17	3.12	.50	.63	25,000	6.50
HAS–204–C	CLEVIS										6.50
HAS–204–N	NONE										4.90
HAS–227–S	SOCKET	1.75	2.27	11.00	3.88	2.41	3.47	.62	.63	25,000	10.00
HAS–227–C	CLEVIS										10.00
HAS–227–N	NONE										8.00
HAS–252–S	SOCKET	2.00	2.52	12.00	4.25	2.69	3.81	.62	.63	30,000	11.50
HAS–252–C	CLEVIS									25,000	11.50
HAS–252–N	NONE									30,000	9.85
HAS–250–16S	SOCKET	2.00	2.50	16.00	4.50	2.62	–	.62	.75	30,000	13.75
HAS–250–16C	CLEVIS										13.75
HAS–250–16N	NONE										11.50

CATALOG NUMBER	TYPE OF FITTING	CLAMPING RANGE MIN.	CLAMPING RANGE MAX.	A	B	C	D	J	PD	ULTIMATE STRENGTH IN LBS.	APPROX. SHIP WT. LBS. EA.
HAS–280–S	SOCKET	2.40	2.80	14.00	4.88	3.00	4.50	.62	.75	30,000	12.30
HAS–280–C	CLEVIS									25,000	12.30
HAS–280–N	NONE									40,000	10.65
HAS–62–S	SOCKET	.20	.62	6.75	2.28	.91	1.72	.50	.63	17,000	2.85
HAS–62–C	CLEVIS										2.85
HAS–62–N	NONE										1..90
HAS–293–S	SOCKET	2.55	2.93	15.00	5.00	3.12	–	.62	.75	30,000	
HAS–293–C	CLEVIS									25,000	
HAS–293–N	NONE									30,000	
HAS–182–S–BP	SOCKET	1.25	1.82	10.00	3.25	1.94	–	.62	.63	25,000	
HAS–182–C–BP	CLEVIS										
HAS–182–N–BP	NONE										
HAS–252–S–BPA	SOCKET	2.00	2.52	12.00	4.25	2.69	3.81	.75	.63	30,000	11.5
HAS–252–C–BPA	CLEVIS									25,000	11.5
HAS–252–N–BPA	NONE									30,000	9.85
HAS–139–S–DP	SOCKET	.90	1.39	8.75	3.12	1.53	2.41	.62	.63	25,000	5.10
HAS–139–C–DP	CLEVIS										5.10
HAS–139–N–DP	NONE										3.60
HAS–213–S–DP–1	SOCKET	1.40	2.13	10.50	3.62	2.25	3.25	.62	.63	25,000	9.00
HAS–213–C–DP–1	CLEVIS										9.00
HAS–213–N–DP–1	NONE										7.50
HAS–213–S–DP–2	SOCKET	1.40	2.13	10.50	3.62	2.25	3.25	.62	.63	25,000	9.00
HAS–213–C–DP–2	CLEVIS										9.00
HAS–213–N–DP–2	NONE										7.50
HAS–325–S	SOCKET	2.78	3.25	18.00	5.38	3.50	5.00	.62	1.00	60,000	
HAS–325–C	CLEVIS										
HAS–325–N	NONE										
HAS–213–S	SOCKET	1.40	2.13	10.50	3.62	2.25	3.25	.62	.63	25,000	9.00
HAS–213–C	CLEVIS										9.00
HAS–213–N	NONE										7.50
HAS–213–S–DP	SOCKET	1.40	2.13	10.50	3.62	2.25	3.25	.62	.63	25,000	9.00
HAS–213–C–DP	CLEVIS										9.00
HAS–213–N–DP	NONE										7.50
HAS–182–30–S	SOCKET	1.25	1.82	10.00	3.17	2.06	2.88	.50	.63	30,000	5.75
HAS–182–30–C	CLEVIS										5.75
HAS–182–30–N	NONE										4.25





SPECIFICATIONS:

ALUMINUM SUSPENSION CLAMPS ARE RECOMMENDED FOR ACSR WITH PREFORMED STRAIGHT OR TAPERED ARMOR RODS. LINERS ARE NOT REQUIRED.

CLAMP BODIES AND KEEPERS ARE OF HIGH STRENGTH ALUMINUM ALLOY, HEAT TREATED. SOCKETS AND CLEVISES ARE 654512 DUCTILE IRON, HOT DIP GALVANIZED. BOLTS, NUTS, LOCKWASHERS AND PINS ARE HOT DIP GALVANIZED STEEL. COTTER PINS IN SOCKET ARE H/D BRONZE, OTHERS ARE S/S #302.

NOTES:
FOR CABLE APPLICATION OF SUSPENSION CLAMPS SEE DRAWING C–4168, SHEET NUMBERS 1,2,3,4, AND 5.

CLAMP MAY BE FURNISHED WITH 5/8–11 GALVANIZED STEEL BOLT AND NUT WITH #302 STAINLESS STEEL COTTER PIN WHEN SPECIFIED BY CUSTOMER. EXAMPLE, ADD 'BNK' TO STANDARD CATALOG NUMBER.

'BPA' SUFFIX REQUIRES MEETING BONNEVILLE POWER'S SPECIFICATIONS.

'HL' SUFFIX REQUIRES: S/S CLEVIS PIN, ALUMINUM U–BOLTS, WAXED ALUMINUM NUTS AND ALUMINUM LOCKWASHER. (HAWAIIAN LIGHTING)

'CFE' SUFFIX REQUIRES: DATE CODE ON BODY CASTING

THE HAS–213–SERIES IS IDENTIFIED BY A COLOR SPRAYED ON THE BACK SIDE (U–SECTION) OF ALL U–BOLTS:

HAS–213–C(S/N) (NO COLOR). HAS–213–C(S/N)–DP (RED).

HAS–213–C(S/N)–DP–1 (WHITE). HAS–213–C(S/N)–DP–2 (BLUE).

"CVN" SUFFIX CLAMPS INDICATE THE HARDWARE WILL BE GALVANIZED PER CSA G164 AND THE CLEVIS BOLT SHALL MEET CSA C83 LEVEL 1 CHARPY IMPACT RESULTS (ABSORPTION LEVELS OF 20 JOULES AT –20°C).

"LUB" SUFFIX REQUIRES LONGER U–BOLT FOR ATTACHMENT OF BONDING/GROUNDING TERMINAL

EC #	DATE	CHG BY	RESP ENG
66333	8/11/16	WJI	WJI

DESC OF DWG:
ADDED NOTE ON 'CVN' SUFFIX
ADD LUB SUFFIX NOTE
UPDATE B DIM FOR HAS182- DELETE SHEETS 2 THRU 6
--
REASON (S) FOR CHANGE: --
DISPOSITION OF MAT'L: --

ANDERSON® TOLERANCE CHART

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HUBBELL® POWER SYSTEMS

TITLE: HIGH STR. AL. SUSP. CLAMP

SIZE	DWG NO.	CAT / PART / ASSY NO.	REV
C	C–4167	SEE CHART	44

DO NOT SCALE THIS DRAWING | DRN BY MAJ | DATE 10/11/00 | SHEET 1 OF 1