INSTALLATION INSTRUCTIONS:

GENERAL:
THE MODULES CAN PREFERABLY BE WELDED TO LOAD CARRIER AND FOUNDATION, WHICH ELIMINATES
PROBLEMS OF GETTING HOLES ON TOP AND BOTTOM LINED UP. OR, FOR EXAMPLE, BOLTED ON TOP
AND WELDED ON BOTTOM. THE MODULES ARE DELIVERED PRE-ASSEMBLED EXCL. LOAD CELLS AND LOADING CUPS AS SHOWN ON FIGURE 1.

INSTALLATION:

1. POSITION THE PRE—ASSEMBLED MODULES ON THE FOUNDATION PLATES AND PUT ON THE LOAD CARRIER AS SHOWN IN FIGURE 1.

2. WELD MODULES ON TOP AND BOTTOM AS SHOWN ON FIGURE 1. ALSO SEE NOTE 2.

2. WELD MODULES ON TOP AND BOTTOM AS SHOWN ON FIGURE 1. ALSO SEE NOTE 2. ALTERNATIVELY BOLT AS SHOWN ON FIGURE 3.

3. APPLY A LAYER OF GREASE TO THE O-RINGS PROVIDED INSIDE THE UPPER AND LOWER LOAD CUPS AND ASSEMBLE CUPS WITH THE LOAD SENSOR, SLIDE LOAD SENSOR WITH CUPS INTO POSITION, MOUNT THE LOWER CLAMP AND TORQUE THE SCREWS TO 11LB-FT [15NM]. ALSO MOUNT THE UPPER CLAMP BUT TORQUE SCREWS LOOSELY AT THIS STAGE. IMPORTANTI! THE LOWER LOAD CUP IS TALLER THAN THE UPPER LOAD CUP AND IS DESIGNED TO PREVENT LOAD SENSOR ROTATION. THE LOWER LOAD CUP SHOULD ALWAYS BE POSITIONED AT THE LOW SIDE LOCATION OF THE WEIGH MODILIE.

ROTATION. THE LOWER LOAD COP STOOLD ALTHOUGH SET TO SEE TO SHARM THE WEIGH MODULE.

4. REMOVE THE 2 FIXATION SCREWS ON ALL WEIGH MODULES. CHECK THAT THE GAP BETWEEN THE LIFT OFF WASHER AND THE BOTTOM UNIT IS AT 10 MM.

5. FOR ONE MODULE AT A TIME, LIFT THE LOAD CARRIER SLIGHTLY 1—3 MM TO ALLOW REMOVAL OF THE SPACERS. LIFTING IS PREFERABLY DONE WITH A HYDRAULIC JACK POSITIONED IN SUITABLE

POSITION CLOSE TO THE MODULE.

6. LOWER THE LOAD CARRIER ONTO LOAD SENSOR AND REMOVE THE JACK. NOW TORQUE THE SCREWS FOR THE UPPER CLAMP TO 11LB-FT [15NM]. SET THE "LIFT OFF GAP" TO 1-3 MM AND LOCK THE LIFT OFF SCREW WITH THE LOCKING SCREW.

7. REPEAT THE PROCEDURE DESCRIBED IN NOTES 5-6 FOR ALL WEIGH MODULES.

8. FOR VERY STIFF LOAD CARRIERS, SHIMMING MIGHT BE NECESSARY TO OBTAIN EVEN LOAD DISTRIBUTION. THIS SHOULD BE PLANNED AND PREPARED PRIOR TO INSTALLATION.
9. SEE DRAWING SHEET 2 FOR MOUNTING PLATE OFFSET DIMENSIONS.

* IN TANK/SILO APPLICATIONS WITH 3 RESPECTIVELY 4 WEIGH MODULES CAN BE ASSUMED THAT MINIMUM 2 MODULES WILL EQUALLY SHARE <u>ACTUAL</u> SIDE FORCE (WIND) ON THE TANK/SILO.

<u>ACTUAL</u> LIFT OFF FORCE SHALL, FOR WORST CASE, BE ASSUMED BEING TAKEN BY ONE MODULE.

FOR STAINLESS MODULES, REDUCE "MAX LIFT OFF FORCE" AND "MAX SIDE FORCE" STATED IN

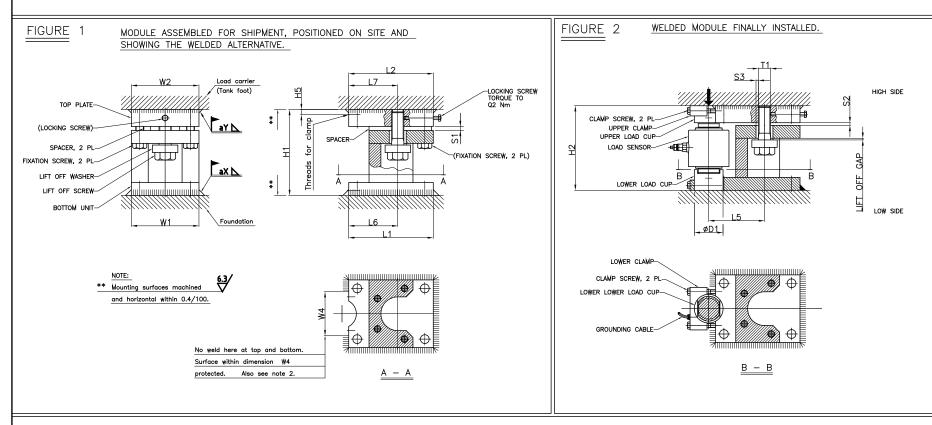
NOTE 2.
MATERIAL OF MILD STEEL WEIGH MODULE IS \$355JR.
IF WELDING IS TO BE DONE, MATERIALS MUST BE BROUGHT UP TO SUITABLE TEMPERATURES BEFORE WELDING. AFTER WELDING, CLEAN, APPLY PRIMER AND PROTECTIVE PAINT.

STAINLESS STEEL WEIGH MODULE TOP AND BOTTOM PLATES ARE MADE OF DIN 1.4301 (SS 304) OR ASTM-A240 TYPE 304 (S30400)

NOTE 3:
OPERATING TEMPERATURE RATING FOR LOAD POINT MODULES IS -40°C TO +80°C.
USAGE OF LOAD POINT MODULE AT TEMPERATURES BELOW -40°C REQUIRES THAT THE ENTIRE LOAD
POINT MODULE ASSEMBLY AND LOAD SENSOR CABLE BE TEMPERATURE CONTROLLED.

CAPACITY LBS [T]	MODEL NUMBER STAINLESS STEEL	MODEL NUMBER PLATED STEEL	LOAD SENSOR MODEL NUMBER	LOAD SENSOR CABLE LENGTH	MAXIMUM LIFT-OFF FORCE KLB [KN] *	MAXIMUM SIDE FORCE KLB [KN] *	WEIGHT — EXCLUDING LOAD SENSOR
66KLB [30T]	HI LPRC03-66K-43C	HI LPRC03-66K-45C	HIRCHC03-66K	30FT [9.1M]	40.4 [180]	20.2 [90]	711.0 [70/0]
88KLB [40T]	HI LPRC03-88K-43C	HI LPRC03-88K-45C	HIRCHC03-88K	30F1 [9.1M]	40.4 [180]	20.2 [90]	71LB [32KG]

	DIMENSIONS IN [MM]												BOLT TI	HREAD	TORQUE LB	-FT [NM]	WELD SIZE	IN [MM]								
D1	D2	H1	H2	Н3	H4	H5	L1	L2	L3	L4	L5	L6	L7	S1	S2	S3	₩1	W2	₩3	₩4	T1	T2	Q1	Q2	Х	Y
2.36 [60]	.87 [22]	8.03 [204]	7.87 [200]	1.41 [29]	1.57 [40]	.49 [12.5]	8.27 [210]	8.27 [210]	6.69 [170]	1.18 [30]	4.92 [125]	4.53 [115]	4.53 [115]	.47 [12]	.31 [8]	.24 [6]		5.91 [150]	4.33 [110]	3.94 [100]	M30	M20	295 [400]	26 [35]	.31 [8]	.24 [6]



CENTER POINT — THIS CENTER POINT OF THE UPPER LOAD CUP SHOULD BE CENTERED ON THE LOAD CARRIER FOOT PLATE.

NOTES: UNLESS OTHERWISE SPECIFIED

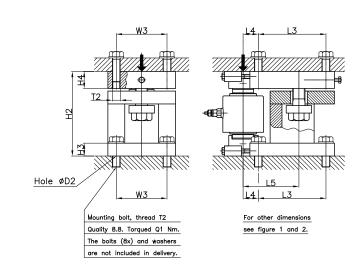
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BOLTED MODULE FINALLY INSTALLED.

FIGURE 3

DESCRIPTION

REVISED PER ECN.



0588-0139

DO NOT SCALE DRAWING

ITEM	QTY	PART N	UMBER			DESCR	RIPTION			
					PA	RTS I	LIST			
		E SPECIFIED CHES [MM]	CONTRACT	NO.						
TOLERAN	CES ARE:	oo []		APPROVAL:	S					
	ONS: N/A IALS: .XX	= ±.03 = ±.010	DRAWN V. CHULA	TITLE						
	SLES: ±0°,		CHECKED D. DRAKE	-	DATE 01-30-09					
MATERIAL	MATERIAL			1	DATE 01-30-09	ŀ	11 L			
FINISH			ISSUED V. CHULA	4	DATE 01-30-09	SIZE	FSCM 21			
			PRODUCTIO	N	DATE	7 1 6				

DUTLINE DRAWING, LOAD POINT, LPRC03 SERIES, 66KLB-88KLB

21316

OUTLINE DRAWING, LOAD POINT, HI LPRC03 SERIES, 66KLB-88KLB

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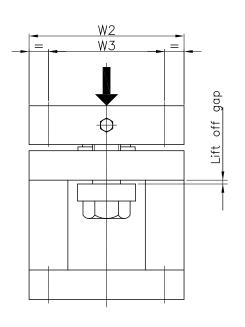
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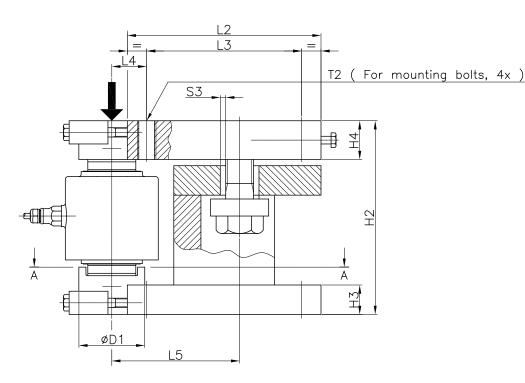
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SEE NOTES

COMMENTS

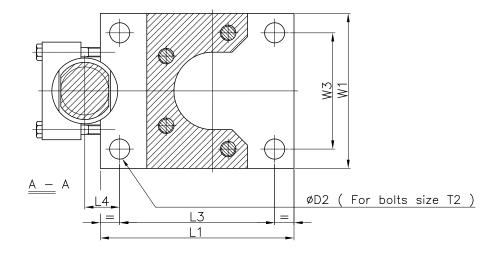
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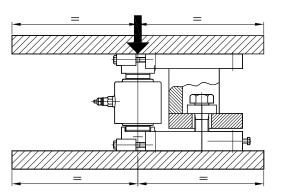




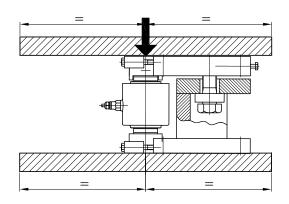
GENERAL:

THE MODULE CAN PREFERABLY BE WELDED TO TANK FOOT AND FOUNDATION PLATE, WHICH ELIMINATES PROBLEMS OF GETTING HOLES ON TOP AND BOTTOM LINED UP. OR, FOR EXAMPLE, BOLTED ON TOP AND WELDED ON BOTTOM.





WEIGH MODULE CAN ALSO BE INSTALLED INVERTED



WEIGH MODULE AS NORMALLY INSTALLED

CENTER POINT - THIS CENTER POINT OF THE UPPER LOAD CUP SHOULD BE CENTERED ON THE LOAD CARRIER FOOT PLATE.

CAPACITY LBS [T]	MODEL NUMBER STAINLESS STEEL	MODEL NUMBER PLATED STEEL	LOAD SENSOR MODEL NUMBER	LOAD SENSOR CABLE LENGTH	MAXIMUM LIFT—OFF FORCE KLB [KN] *	MAXIMUM SIDE FORCE KLB [KN] *	WEIGHT — EXCLUDING LOAD SENSOR
66KLB [30T]	HI LPRC03-66K-43C	HI LPRC03-66K-45C	HIRCHC03-66K	70ET [0.1M]	40.4 [180]	20.2 [90]	71LB [32KG]
88KLB [40T]	HI LPRC03-88K-43C	HI LPRC03-88K-45C	HIRCHC03-88K	30FT [9.1M]	40.4 [160]	20.2 [90]	/ 1LB [32NG]

DIMENSIONS IN [MM]												BOLT THREAD		
D1	D2	H2	Н3	H4	L1	L2	L3	L4	L5	S3	W1	W2	W3	T2
2.36 [60]	.87 [22]	7.87 [200]	1.41 [29]	1.57 [40]	8.27 [210]	8.27 [210]	6.69 [170]	1.18 [30]	4.92 [125]	.24 [6]	5.91 [150]	5.91 [150]	4.33 [110]	M20

NOTE: * IN TANK/SILO APPLICATIONS WITH 3 RESPECTIVELY 4 WEIGH MODULES CAN BE ASSUMED THAT MINIMUM 2 MODULES WILL EQUALLY SHARE ACTUAL SIDE FORCE (WIND) ON THE TANK/SILO. ACTUAL LIFT OFF FORCE SHALL, FOR WORST CASE, BE ASSUMED BEING TAKEN BY ONE MODULE. FOR STAINLESS MODULES, REDUCE "MAX LIFT OFF FORCE" AND "MAX SIDE FORCE" STATED IN TABLE TO 60%.

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OUTLINE DRAWING, LOAD POINT, HI LPRC03 SERIES, 66KLB-88KLB

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