Bolt-On Horizontal Beam Application Data Form

Date_____ Sheet _____of _____

Site Information

City _____ State_____ Industry_____
Company Name_____ Division of_____
Address_____
_____
_____

Contact Information

Contact Name_____ Title_____
Tel_____ Fax_____

Originator Information

Form Completed by_____ Title_____
Tel_____ Fax_____

Vessel(s) Information

Total Number of Vessels Contained in this ADF_____
Equipment Use
☐ Inventory Only ☐ Inventory & Control ☐ Active Process Control
Vessel and Application Data Source
☐ Phone ☐ Drawing(s) ☐ On-Site Visit

Describe the application and use of the measured levels in the vessel(s)

_____
_____
_____
_____
_____
_____
_____
_____

To be completed by Kistler-Morse

S.O. #_____REVIEWED BY_____Date_____

APPROVED BY_____Date_____

Vessel(s) Information

Vessel	ID	Material in Vessel	Tank Capacity lbs or kg) Design	Working	Stress Level: Refer to Stress Calculation	# of Support Beams*	Temperature (°F/°C) of Material in Vessel Maximum	Minimum	Hazardous Rating Class	Div	Group	Operating Accuracy	Display Units
A													
B													
C													
D													
E													
F													
G													
H													

*Attach drawings, if applicable.

Circle the appropriate vessel(s) with ——————————**Vessels**——————————

Corrosive materials	A	B	C	D	E	F	G	H
CIP or washdown	A	B	C	D	E	F	G	H
Protruding through roof or building	A	B	C	D	E	F	G	H
Located indoors	A	B	C	D	E	F	G	H
Capable of truck loadout	A	B	C	D	E	F	G	H

Controller

Enclosure ☐ Plastic/Fiberglass ☐ Stainless Steel

Power ☐ 115/230VAC ☐ 100VAC ☐ DC (24V)

Hazardous Rating at Controller Location(s) Class_____ Division_____ Group_____

Temperature at Controller Location(s) Max_____ºF/ºC Min_____ºF/ºC

Distance from Controller to the Most Distant Vessel_____feet/meters

Electronics

☐ Weigh II ☐ MVS-4D ☐ MVS-8D

☐ MVS-4D with STX ☐ MVS-8D with STX

Output Relays Required? ☐ No ☐ Yes. How many?_____

Current Outputs Required? ☐ No ☐ Yes. How many?_____

Serial Options ☐ RS422 ☐ RS485 ☐ RS232 Compatible ☐ A-B RIO ☐ Modbus

☐ Other_____

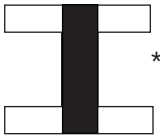
Stress Level Calculation (copy this page for additional vessels)

(**a**) Divide live load by the number of beams supporting weight: _____lbs

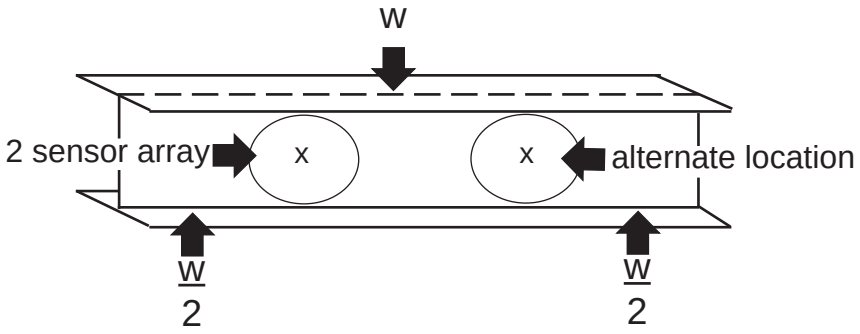
(**b**) Divide (**Step a**) by 2: $\frac{\text{(Step a)}}{2}$ = _____lbs

(**c**) Record shear area* of one beam: _____in.^{2}

(**d**) Calculate stress: $\frac{\text{(Step b)}}{\text{(Step c)}}$ = _____psi

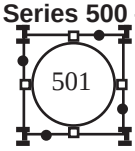
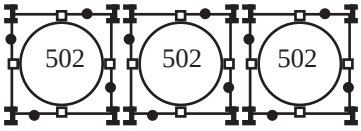
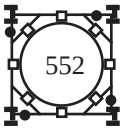
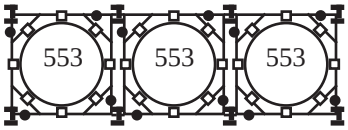
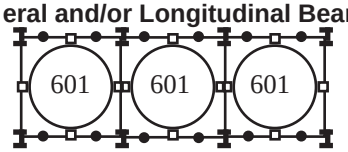
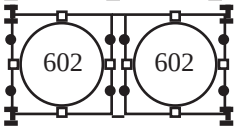
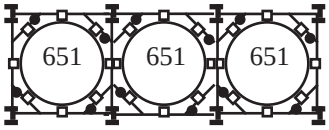


*for shear area, see steel tables



Additional Information

Vessel Selection (copy this page for additional vessels)

(check application)		Description	# of Beams Supporting Weight for Each Vessel	
	Series 500 — Independent Beams			
☐		Single vessel — no diagonal beam supports	4	
☐		Multiple vessels — no diagonal beam supports, no common beams or common vertical legs	4	
☐		Single vessel — diagonal beam supports, weight supported by diagonal beams only	4	
☐		Single vessel — diagonal beam supports, weight supported by horizontal and diagonal beams	8	
☐		Multiple vessels — diagonal beam supports, weight supported by horizontal and diagonal beams, no common beams, common vertical legs	8*	*Use 4 when calculating the stress on page 3
	Series 600 — Common Horizontal Lateral and/or Longitudinal Beams			
☐		Multiple vessels — no diagonal beam supports, common internal lateral beams, common internal vertical legs	4	
☐		Multiple vessels — no diagonal beam supports, independent internal lateral beams, common longitudinal beams	4	
☐		Multiple vessels — diagonal beam supports, weight supported by horizontal and diagonal beams, common internal lateral beams, common internal vertical legs	8	

Note: Illustrations for Series 501, 502, 551, 552, 553, and 651 show Microcells to left of load points. If obstructions prevent use of these locations, locate **all** Microcells to right of load points on indicated beams.

Legend:
- I = vertical leg
- □ = vessel support point
- ● = mounting location for Microcell set

Give depth and weight/foot and shear area of these beams (see appropriate steel tables.)

A._____

B._____

C._____

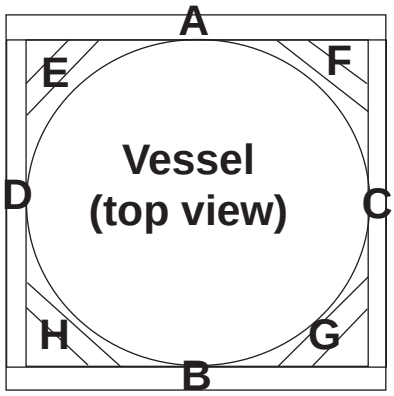
D._____

E._____

F._____

G._____

H._____



Indicate on sketch:
● at each vessel load point
X at each support column
S at each beam shared with adjoining vessels

KM #97-5024D

150 Venture Boulevard
Spartanburg, SC 29306
800.426.9010 - 864.574.2763
Fax: 864.574.8063
kistlermorse.com