



Bolt-On Vertical Column Leg 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 vessels

To be completed by Kistler-Morse

S.O. # _____ REVIEWED BY _____ Date _____

APPROVED BY _____ Date _____

Vessel	ID	Material in Vessel	Tank Capacity (lbs or kgs)		Stress Level: Refer to Stress Calculation	# of Support Columns	Column Type I, P*	Brace Effect **	Temperature (°F/°C) of Material in Vessel		Hazardous Rating		Operating Display	
			Design	Working					Maximum	Minimum	Cl	Div	Grp	Accuracy
A														
B														
C														
D														
E														
F														
G														
H														

*I = I-Beam, P = Pipe

**See page 3 for further clarification.

Circle the appropriate vessel(s) with

	Vessels							
	A	B	C	D	E	F	G	H
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 _____ °F/°C Min _____ °F/°C
 Distance from Controller to the Most Distant Vessel _____ feet/meters

Electronics

Weigh II MVS-4D MVS-8D
 SVS 2000 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)

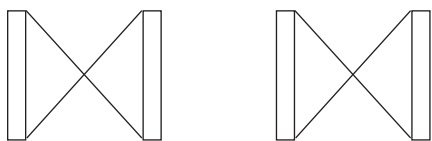
- (a) Divide live load by number of support legs: _____ lbs
 - (b) Record compression area* of one support leg: _____ in.²
 - (c) If the Microcells are to be installed on the legs between braces, go to Step d.
 Otherwise, calculate stress: $\frac{\text{(Step a)}}{\text{(Step b)}} = \text{_____ psi}$
 - (d) If the Microcells are to be installed on the legs between braces:
 - d1. Record compression area* of one brace: _____ in.²
 - d2. Calculate effective brace area: $\text{(Step d1)} \times 0.707 \times N^{**} = \text{_____ in.}^2$
 - d3. Calculate stress: $\frac{\text{(Step a)}}{\text{(Step b)} + \text{(Step d2)}} = \text{_____ psi}$
 - d4. Calculate Brace Effect: $\frac{\text{(Step b)}}{\text{(Step d1)} \times N^{**}} = \text{_____}$
- Note: If Brace Effect is less than 3, braces can cause significant weighing errors. Consult factory.*



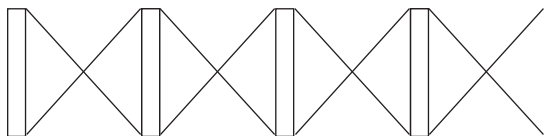
*for compression area, see steel tables
 **For N, see page 4

Additional Information

Braces

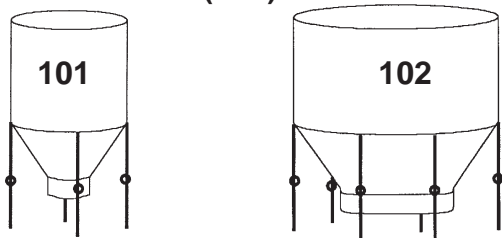


N = 1
One brace per leg

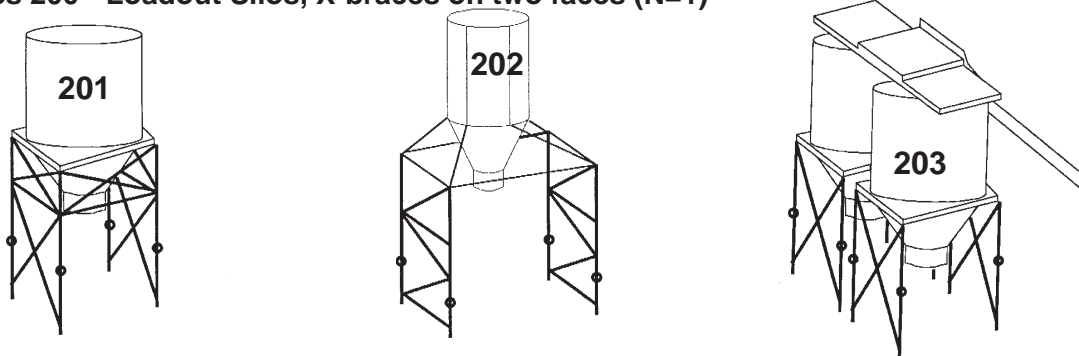


N = 2
Two sets of braces per leg

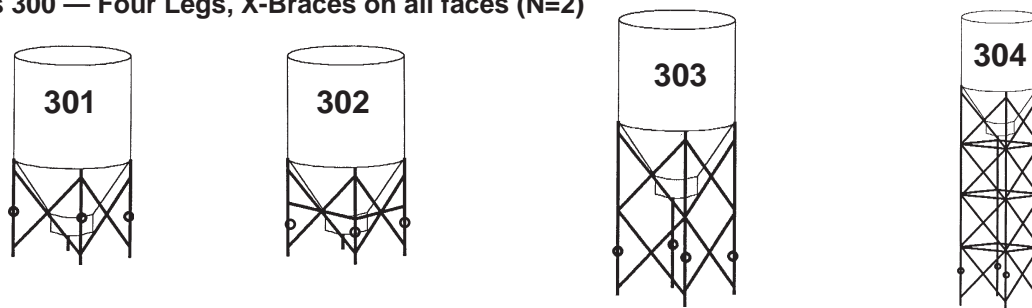
Series 100—No X-braces (N=0)



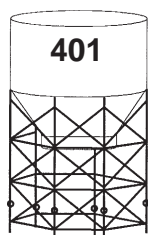
Series 200—Loadout Silos, X-braces on two faces (N=1)



Series 300 — Four Legs, X-Braces on all faces (N=2)



Series 400 — More Than Four Legs, X-Braces on All Faces (N=2)



Legend:
 ● = mounting location for Microcell set (mount on two sides of each leg)
 N = measure of effect of x-braces on stress at the Microcell location;
 used in calculating stress



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