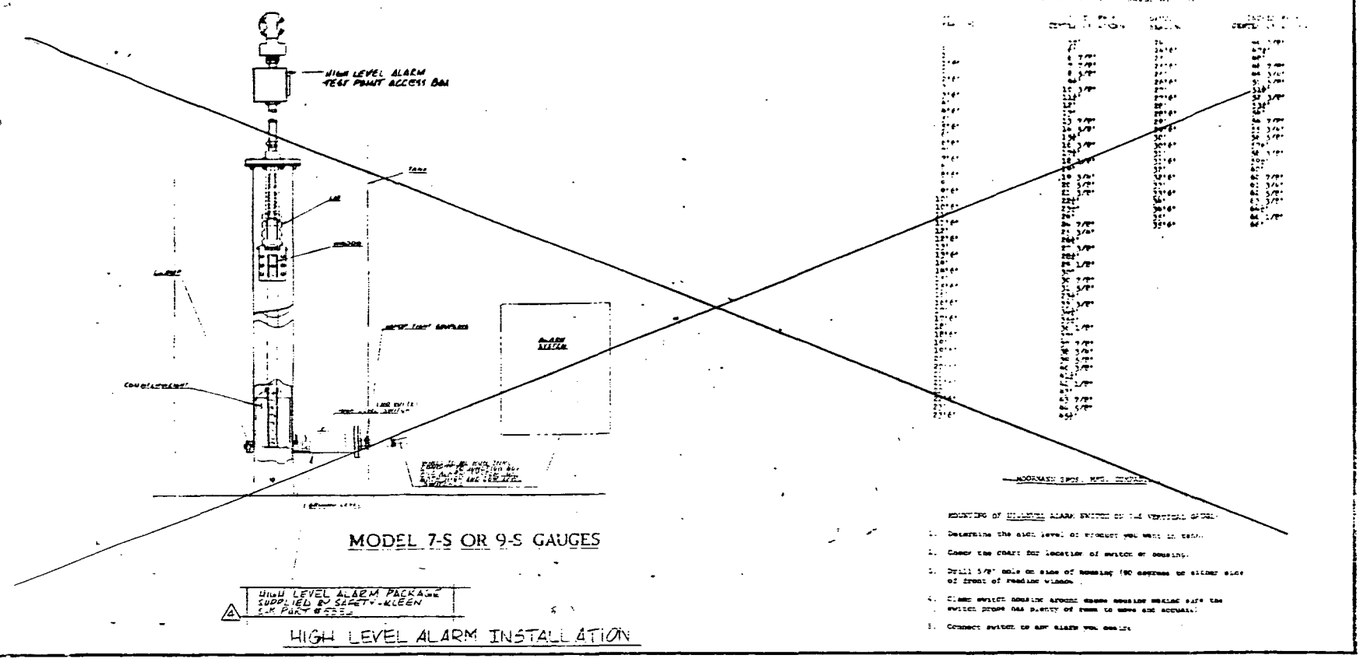
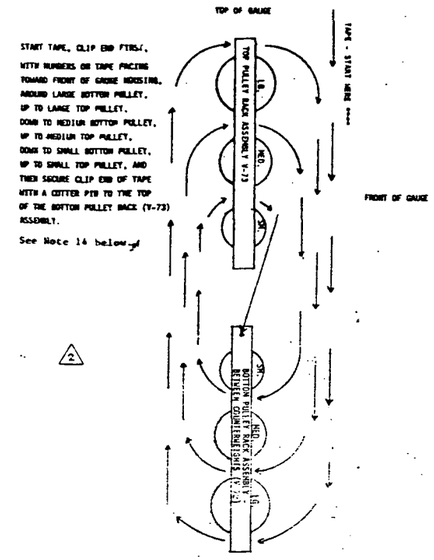


MODEL 7-S OR 9-S GAUGES

△1 HIGH LEVEL ALARM PACKAGE SUPPLIED BY SAFETY-KLEEN U.M. PART # 6552

HIGH LEVEL ALARM INSTALLATION



ENLARGED DETAIL SHOWING HOW TAPE IS WOUND ON PULLEY RACK ASSEMBLIES OF MOORMANN MODEL #7-S.
CUT OFF EXCESS TAPE AT FLOAT.

MATERIAL LIST
Model 7-S

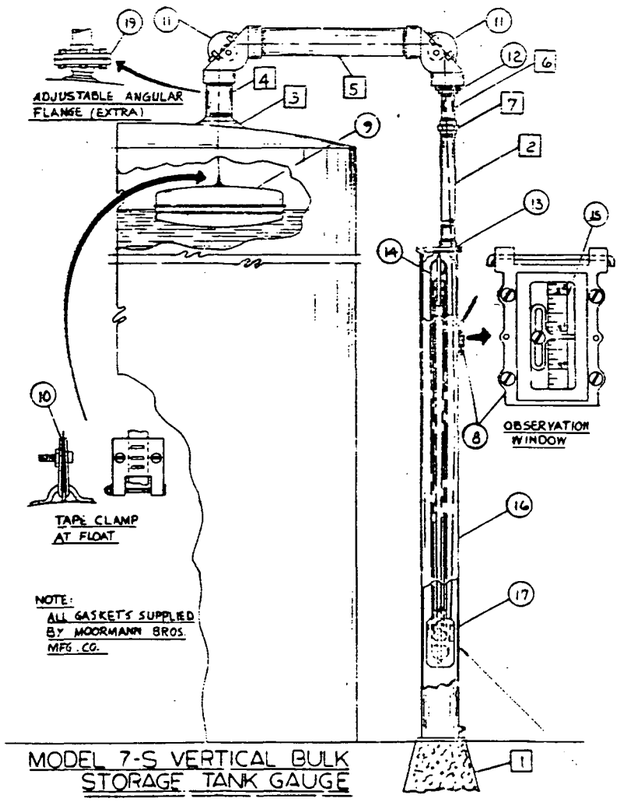
For All Vertical Tanks Up To & Including 25'

☐ Material Supplied by CONTRACTOR

1. Gauge Housing Base Support.
2. 1" Galvanized Pipe (cut to length).
3. Tank Roof Flange.
4. 2" Tank Opening Pipe.
5. 2" Galvanized Pipe (cut to length).
6. 1" Galvanized Nipple (any length).
7. 1" Galvanized Union.

◯ Material Supplied by Moormann Bros. (SAFETY-KLEEN)

	PART NAME	PART No.	QUANTITY Per Unit
8.	Observation Window Assembly	A-34—A-38	1
9.	Float	V-75,	1
10.	Stainless Steel Tape Clamp & Screws	V-93	1
11.	Elbow Assembly Complete	A-30, A-33	2
12.	2" to 1" Reducing Bushing		1
13.	Eccentric Cap Complete with Nuts & Bolts	V-71	1
14.	Pulley Rack Assembly	V-73	2
15.	Lufkin Stainless Steel High Visibility Tape	V-49	1
16.	Rust-Proofed Steel Gauge Housing	V-77	1
17.	Counterweight	V-72	2
18.	Condensation Drain Plug		1
	Frame & Lid Assembly for Observation Window	A-34, A-38	1
	Gaskets - Set for Observation Window	V-81, V-82	1
	Gasket - Elbow Cap	V-83	2
	Gasket - V-71 Eccentric Cap	V-84	1
	Glass - Window	V-86	1
	Stainless Steel Indicator Finger for Observation Window	V-94	1
	Wire Pin - Stainless Steel	V-96	5



MODEL 7-S VERTICAL BULK STORAGE TANK GAUGE

INSTALLATION INSTRUCTIONS - MODEL 7-S

1. Locate gauge position on ground — mark top edge of tank directly above ground location
2. Measure, cut and thread 2" pipe (as marked on print).
3. Use pipe dope on all connections.
4. Assemble both A-30 elbows and 2" pipe as shown on print.
5. Screw (1) elbow A-30 onto 2" pipe with reducing bushing, close nipple and union as shown on print; other A-30 elbow onto 2" nipple in tank then screw other end of 2" pipe into tank elbow, make straight with tank marking.
6. Level 2" pipe, use temporary wood brace or alignment flange, if necessary
7. Set gauge housing with eccentric cap assembled on ground directly below overhanging elbow.
8. Measure for 1" pipe (reducing bushing in elbow to eccentric cap V-71 on gauge housing) allow for threads, cut and thread 1" pipe.
9. Screw 1" pipe into elbow, then remove V-71 eccentric cap from housing and put on 1" pipe. CAUTION — Be sure eccentric cap is straight and 1" outlet is farthest away from tank.
10. Fasten pulley rack with large pulley up to eccentric cap using stainless steel pins.
11. Assemble other pulley rack in counterweights with large pulley down.
12. Place counterweight on ground directly beneath eccentric cap pulley rack.
13. Remove A-33 caps from both elbows.
14. Thread tape from tank elbow with numbers up and clip ends first through 2" pipe and over elbow pulleys down through 1" pipe and out eccentric cap, straight down and around bottom pulley in C/W and up and over top pulley in eccentric cap, down to medium pulley up and over medium pulley, down and around small pulley on C/W and up and around small pulley on eccentric cap, down and fasten to lug on counterweight pulley rack—use stainless steel pin. CAUTION—Do not thread tape over or under cross bars in pulley rack. Use caution—do not kink or bend tape.
15. Fasten tape to float with tape clamp (as per print) CAUTION — Do not fasten tape clamp too tight as this may damage tape.
16. Place eccentric cap gasket on housing top and insert counterweight assembly into housing, CAUTION — Do not allow C/W to drop or kink as this may cause damage to bearings, also be sure the tape is in groove of pulleys and not on the edge.
17. Fasten housing to eccentric cap with observation window directly below 1" pipe.
18. Place outside strand of tape over tape guide in observation window, CAUTION — Do not bend or kink tape, and put ONLY ONE (1) strand of tape over the tape guide.
19. If tank is empty adjust tape reading at 1-3/8" (float draft) if it is partially full set reading exactly with stick, make minor tape reading adjustments with the float by slipping tape through tape clamp. Minor adjustments (within 1" make with observation finger).
20. In setting the reading on the gauge, ½", ¼" or even 1/8" is not close enough, be particular, set gauge to the exact amount of liquid in tank.
21. CAUTION — Let float down in tank easily. Do not let it drop.
22. Assemble observation frame and lid A-34—A-38 place on housing, tighten for vapor-proofing.
23. Fix base for housing either, concrete, wood post, or steel plate welded to tank, CAUTION — Do not weld gauge housing to tank.
24. In most climates, condensation forms inside the tank and gauge. A drain plug has been provided for draining at the bottom of housing. In most climates this is necessary 2 times a year (spring & fall). However, in extreme cases draining is required more often.

GENERAL NOTES

1. TANK GAUGE ASSEMBLY SUPPLIED BY SAFETY-KLEEN CORP.
2. SEE INDIVIDUAL SERVICE CENTER SITE PLANS FOR LOCATION OF THE INSTALLATION.
3. GAUGE MUST BE ORDERED WITH THE PERFORATED TAPE FOR FUTURE REMOTE READ-OUT SYSTEM.
4. HIGH/LOW LEVEL ALARM SWITCH INFORMATION, MATERIAL LIST & INSTALLATION INSTRUCTIONS INCORPORATED ONTO DRAWING.
5. △1 IF REQUIRED, ADDITIONAL VERBAL INSTALLATION INSTRUCTIONS CAN BE OBTAINED BY CALLING MOORMAN BROS. MFG. CO., RUSHVILLE, INDIANA - (317) 932-5590 - ASK FOR: BOB GAINES OR JIM RAVENCRAFT

REV	DESCRIPTION	BY	DATE
A	ADDED SAFETY-KLEEN P/N'S		
B	ADDED ADDITIONAL HIGH LEVEL ALARM INFO.		
C	ADDED TAPE WINDING INFO ABOVE	WLJ	11-2-94
△1	ADDED NOTE 5	WLJ	11-15-94

safety-kleen corp.

MOORMANN BROS. TANK GAUGE INSTALLATION—

SCALE: NONE
DRAWN: WLJ 10-7-93
TRACED:
CHECKED:

For: Service Center Branch Improvement &/or Construction

DWG. NO. A10243