

MDS400 SINGLE CYLINDER SCALE

INSTALLATION & OPERATION MANUAL

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MDS400 INFORMATION

GENERAL

The MDS400 is a single cylinder scale designed specifically for the water and waste water industry. The scale base and weighing surfaces are made of Type 2 PVC plastic and are guaranteed for five years against environmental damage. All mechanical parts wherever possible are made of stainless steel or protected with a durable chemical resistant powder finish.

The MDS400 can accommodate any gas cylinder that does not exceed 15" dia. and 400 lbs. gross weight. When specified the MDS400 can also be used as a drum scale.

SPECIFICATIONS

Accuracy:.....±1% F.S.
Resolution:.....1 lb.
Scale readability:.....1/2 lb.
Scale capacity:.....400 lbs.
Safe overload capacity:.....500 lbs.

FEATURES

- All scales are assembled, tested and calibrated at the factory.
- Easy to read 5" scale length with 150 graduations and 1/2 lb readability.
- Can be specified and ordered as a 400 lb capacity chemical drum scale, for drums up to 15" in diameter.

ASSEMBLY

Remove the scale parts from the carton and inspect for shipping damage. Place the post on the floor with the indicator face up and insert the 6-32 threaded extension rod into the brass bottom stop.

Cut the plastic tie wrap and stand the scale base vertical on its back skirt. Guide the extension rod thru the base and long lever while bringing the post and base together. Use the extension rod to pull the brass bottom stop thru the long lever and insert the "E" ring. Secure the base to the post with two 5/16 hex bolts and lock washers.

Locate the scale on a reasonably level floor. The circular rings are designed to support the loads. For best performance, use the two holes located in the back corners to bolt the scale base to the floor.

OPERATION

Locate a full cylinder in the approximate center of the weighing surface, connect the cylinder chains and make all the required gas connections. Use the tare weight adjust knob to cancel out the tare weight of the gas cylinder. Using the tare adjust knob, set the pointer to the net weight of the cylinder (150 in the case of the standard chlorine cylinders). The displayed weight is now an indication of the weight of product remaining.

WARRANTY

Eagle Microsystems warrants the MDS400 scale base to be free from all defects in material and workmanship. Any parts that fail because of defective workmanship or material within five (5) years of date of shipment will be replaced. The warranty does not include misuse, negligence or modifications.

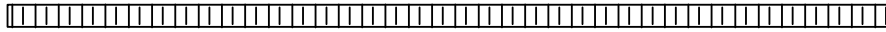
Eagle Microsystems shall not be liable for transportation or installation charges, or any other expenses incurred by the customer.

MDS400 ASSEMBLY INSTRUCTIONS

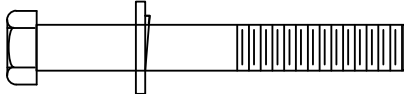
The MDS400 Has Been Assembled, Tested & Calibrated, Then Disassembled & packaged for shipment. The Following Steps Are Required For Re-assembly.

REQUIRED ITEMS

- A. One Threaded Extension Rod.



- B. Hex Head Bolt - 5/16 - 18 x 2 1/2" & Lock Washer (2)



- C. One "E" Ring

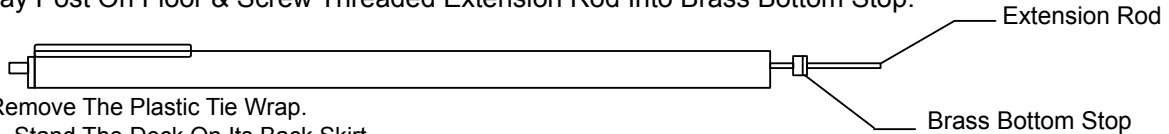


CAUTION

Do Not Stand Post Vertical! Damage To The Steelyard Can Result.

ASSEMBLY STEPS

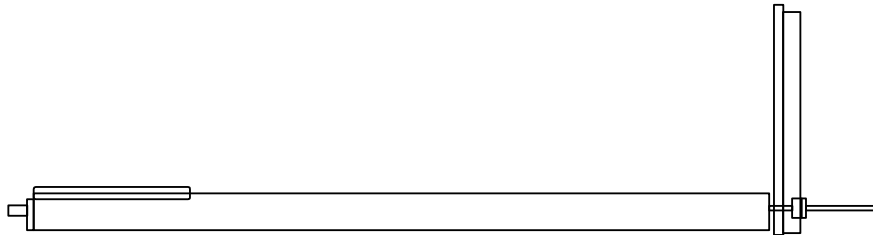
1. Lay Post On Floor & Screw Threaded Extension Rod Into Brass Bottom Stop.



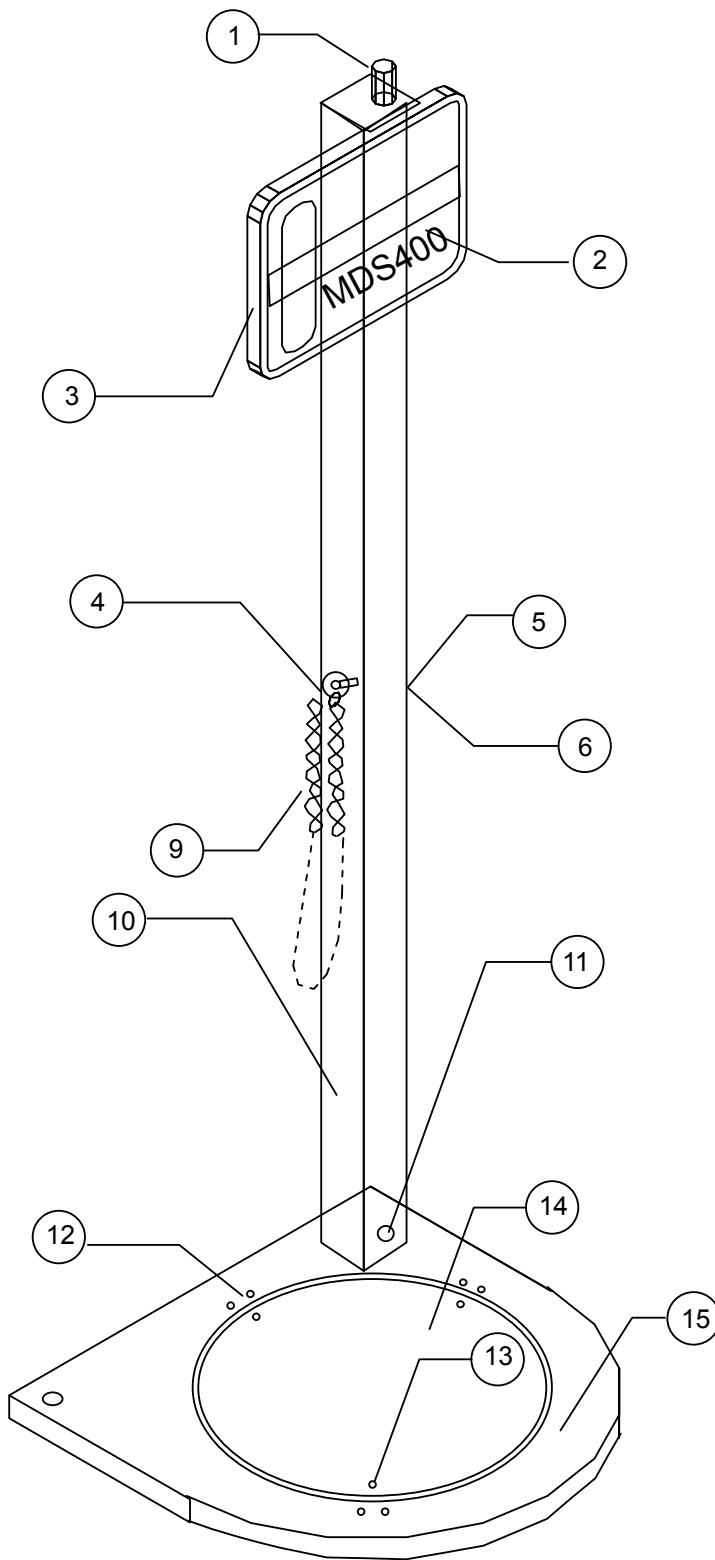
2. Remove The Plastic Tie Wrap.

3. Stand The Deck On Its Back Skirt.

4. Slide Deck & Post Together, While Using The Extension Rod To Guide The "Brass Bottom Stop" Thru The Lever.



5. Screw 5/16 Hex Bolts With Lock Washers Thru Bottom Of Deck & Into Bottom Of Post.
6. Pull The Extension Rod Thru The Lever Hole. Insert E-rings Into Snap Ring Grove, & Let Stops Back Into Lever Holes.
7. Unscrew Extension Rod & Stand Scale Upright.



ITEM	DISCRIPTION	P/N	QTY.
1	Zero Knob	400316	1
2	Overlay	10018	1
3	Back Plate	400343	1
4	Eye 5/16	613033	1
5	Washer	613018	1
6	5/16 Hex Jam Nut	613028	1
7			
8			
9	46" Cylinder Chain	100631	1
10	Post	400307	1
11	Post Clamp	400308	1
12	10B x 5/8 Self Tap	611060	6
13	Pivot Screw	400229	3
14	Disc	400340-1	1
15	Deck	400340	1
16	Stop "E" Ring	613709	1
17	Steelyard Stop	400313	1
18	Steelyard	400140	1
19	Adjusting Nut	610693	1
20	Jam Nut	610632	1
21	Clevis	400312	1
22	Clevis Bushing	400334	1
23	Link	400329	1
24	Tension Spring	400318	1
25	Zero Adj. Link	400315	1
26	Socket Set Screw	610436	2
27	Post Cap	400328	1
28	Link "E" Ring	612101	1
29	Dial Scale	100602	1
30	Pointer Crank Axel	400305	1
31	Pointer "E" Ring	610506	1
32	Pointer	400304	1
33	Axel Bushing	400317	1
34	Pointer Axel	400309	1
35	Lock Nut	611035	1
36	Disk Washer	400154	3
37	Perimeter Flexure	400143	3
38	Perimeter Clamp	400144	3
39	Center Clamp	400145	1
40	Center Flexure	400142	1
41	Short Lever	400339	2
42	Long Lever	400338	1
43			
44	10-24 x 3/8 Hex Head	611061	10
45	10B-5/8 Self Tap Phlip	611060	6
46			
47	10-32 x 3 1/4 Bolt	611013	3

