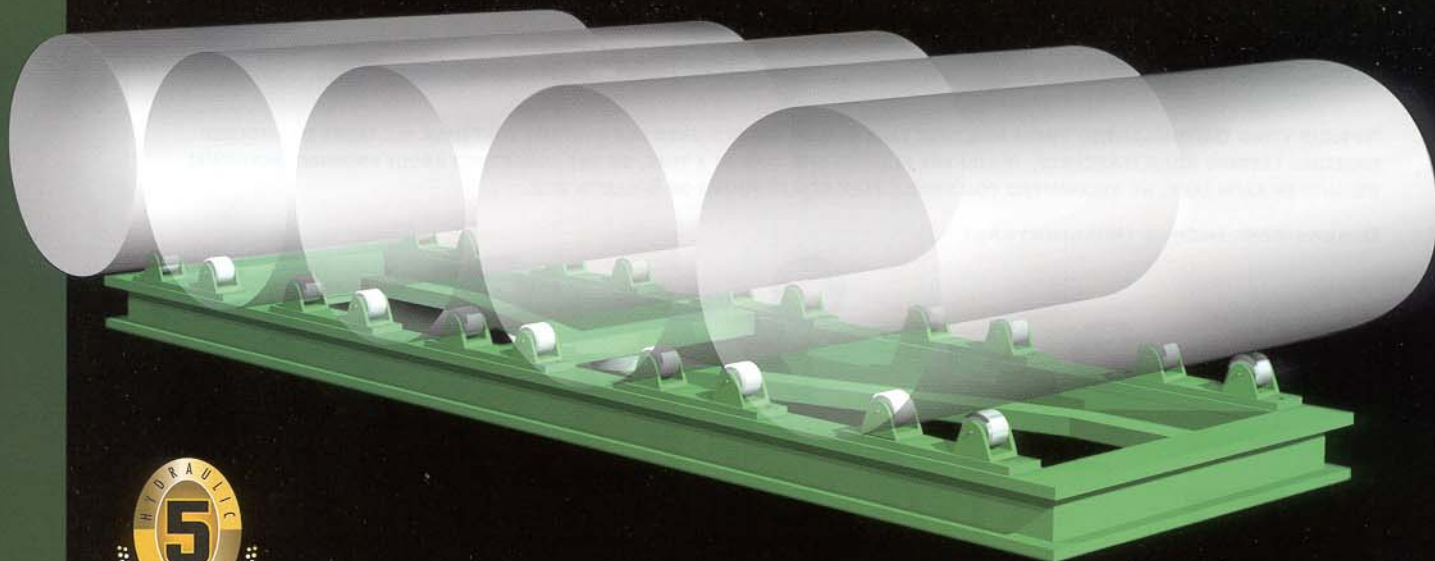


# HYDRAULIC CHLOR-SCALE®

FOR 3 – 6 TON CONTAINERS

BULLETIN  
203



- HYDRAULIC - REQUIRES NO POWER SOURCE!
- SIMPLE TO INSTALL, OPERATE AND MAINTAIN
- INTRINSICALLY SAFE BY DESIGN
- 2-PART EPOXY FINISH
- PATENTED DESIGN USES SINGLE LOAD CELL
- ROLLER TRUNNIONS FOR EASY POSITIONING OF TANK VALVES



HYDRAULIC SYSTEM REQUIRES NO POWER! IT IS VIRTUALLY MAINTENANCE FREE AND IS IMMUNE TO POWER FAILURE, LIGHTNING STRIKES AND RFI/EFI.

WHEN SIMPLICITY IS YOUR FIRST PRIORITY, THE HYDRAULIC CHLOR-SCALE IS THE SOLUTION. THE MULTIPLE HYDRAULIC CHLOR-SCALE WAS DEVELOPED TO ACCOMMODATE LARGE MUNICIPAL WATER AND WASTEWATER PLANTS WHERE MULTIPLE TON CONTAINERS ARE MANIFOLDED TOGETHER IN ORDER TO SATISFY HIGH CHEMICAL DEMANDS. THE PLATFORM'S BUILT-IN ROLLER TRUNNIONS SAFELY CRADLE THE TON CONTAINERS AND ALLOW THE OPERATOR TO ROTATE THE TANK TO POSITION THE VALVES FOR PROPER FEEDING.

A UNIQUE PATENTED DESIGN USES A LEVER SYSTEM TO TRANSFER LOAD TO A SINGLE HYDRAULIC LOAD CELL. BY USING ONLY A SINGLE LOAD CELL, WE HAVE CREATED AN INCREDIBLY SIMPLE WEIGHING DEVICE THAT ELIMINATES THE NEED FOR HYDRAULIC TOTALIZERS AND COMPLICATED INSTALLATION PROCEDURES THAT GO ALONG WITH MULTIPLE LOAD CELL SYSTEMS.

**FORCE FLOW**  
EQUIPMENT

OVER 25 YEARS OF EXPERIENCE

# HYDRAULIC CHLOR-SCALE®

## MODELS AND ORDERING INFORMATION

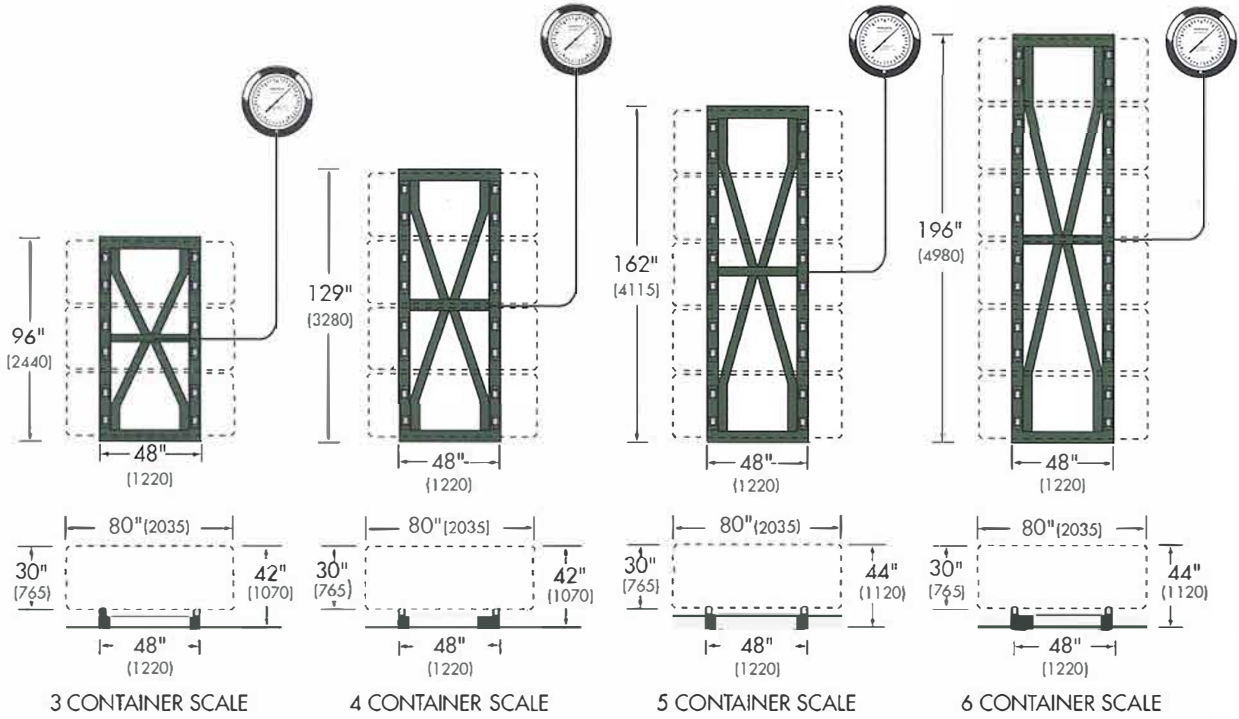
SCALES COME COMPLETE WITH 20' OF PVC COATED COPPER TUBING AND QUICK DISCONNECT. SPECIFY ADDITIONAL LENGTHS AS REQUIRED. FOR INFORMATION ON RECORDERS, TRANSMITTERS AND ALARMS PLEASE CONSULT FACTORY.

MODEL	NUMBER OF CONTAINERS	CAPACITY	STANDARD INCREMENTS	WEIGHT
12D120 (12D60K)	3	12,000 LBS (6000KG)	40/20 LB. (20/10KG)	630 LBS
12D160 (12D80K)	4	16,000 LBS (8000KG)	50/25 LB. (20/10KG)	875 LBS
12D200 (12D100K)	5	20,000 LBS (10,000KG)	80/40 LB. (40/20KG)	1400 LBS
12D240 (12D120K)	6	24,000 LBS (12,000KG)	80/40 LB. (40/20KG)	1600 LBS

CHLOR-SCALES ACCOMMODATE MOST INTERNATIONAL TANK SIZES. EXAMPLE: 864KG, 908KG, 920KG, 1000KG.

**SPECIFYING GUIDELINES:** THESE MULTIPLE TANK SCALES ARE DESIGNED FOR SYSTEMS THAT HAVE ALL TANKS MANIFOLDED TOGETHER FEEDING SIMULTANEOUSLY. IF YOU ARE FEEDING ONE TANK AT A TIME, OR ARE CONCERNED ABOUT KNOWING INDIVIDUAL WEIGHTS OF EACH TANK, WE RECOMMEND OUR SINGLE TANK SCALES FOUND ON BULLETIN 202.

**DIMENSIONS: INCHES (MILLIMETERS)**



### TYPICAL SPECIFICATION FOR HYDRAULIC MULTIPLE CHLORINE AND SO<sub>2</sub> TON CONTAINER SCALE

SCALES SHALL BE OF THE HYDRAULIC LOAD CELL TYPE. SCALE FRAME WILL BE EPOXY FINISHED AND SIZED TO ACCEPT \_\_\_ (3,4,5 OR 6) 3,600 POUND CHLORINE CONTAINERS. IT SHALL HAVE THE REQUIRED NUMBER OF HEAVY DUTY BUSHED BEARING TRUNNIONS INSTALLED FOR EACH CONTAINER TO ALLOW EASY CONTAINER ROTATION. SCALE SHALL BE OF SUCH A SIZE THAT IT IS WITHIN THE DIMENSIONS OF THE TANKS IT SUPPORTS. FRAME SHALL BE CONSTRUCTED OF ASTM GRADE A36 STRUCTURAL STEEL AND SHALL TRANSFER LOAD VIA LEVERS TO A SINGLE HYDRAULIC LOAD CELL. NO HYDRAULIC TOTALIZERS OR SUMMING DEVICES SHALL BE REQUIRED.

LOAD CELL SHALL BE OF THE TEMPERATURE STABLE, ROLLING DIAPHRAGM TYPE. LOAD PLATE SHALL BE ABLE TO TILT 4 DEGREES WITHOUT AFFECTING ACCURACY. FLEXIBLE TUBING SHALL LEAD FROM THE LOAD CELL TO ALLOW REMOTE INSTALLATION OF THE DIAL AND SHALL BE \_\_\_ (20 FEET STANDARD) FEET IN LENGTH. LOAD CELL SYSTEM SHALL REQUIRE NO ELECTRIC POWER AND SHALL BE IMMUNE TO ALL RF/EMI, POWER FAILURES AND LIGHTNING STRIKES.

DIAL DIAMETER SHALL BE 12 INCHES AND READ ZERO TO \_\_\_ POUNDS WITH PROVISION FOR TARE ADJUSTMENT. DIAL SHALL BE TEMPERATURE STABLE WITH DAMPER INSTALLED TO PREVENT SHOCK DAMAGE. DIAL ACCURACY SHALL BE BETTER THAN 1/2 OF 1%.

SCALE SHALL CARRY A MINIMUM 5 YEAR WARRANTY.

SCALE SHALL BE CHLOR-SCALE MODEL \_\_\_ AS MANUFACTURED BY FORCE FLOW EQUIPMENT, 1150-D BURNETT AVE., CONCORD, CA 94520.

#### OPTIONAL FEATURES

- 4-20MA TRANSMITTER (MODEL MA-420) - LOOP POWERED 4-20MA TRANSMITTER (REQUIRES 12-45 VOLTS DC POWER)
- LOW-LEVEL ALARM (MODEL RS-5) - ADJUSTABLE LOW-LEVEL ALARM WITH 25 AMP MANUAL RESET RELAY
- HOLD DOWN CHAINS AND STRAPS - (MODEL HD-4000) HOLD-DOWN CHAINS WITH BINDERS OR (MODEL PS-4000) HOLD-DOWN POLYESTER STRAPS WITH RATCHET BUCKLE
- CIRCULAR CHART RECORDER - CHOOSE 1 OR 7 DAY, ELECTRIC OR WIND-UP
- ADDITIONAL HYDRAULIC TUBING AND FITTINGS- DIAL INDICATORS CAN BE REMOTE MOUNTED UP TO 200' FROM SCALE LOCATION

