ROLA-CHEM
CORPORATION

MAINTENANCE MADE EASY

MAINTENANCE MADE EASY
SOLUTIONS FOR THE SWIMMING POOL, SPA AND HOT TUB PROFESSIONAL

Our **Pro Series** peristaltic pumps deliver professional quality features that make operation and maintenance simple.

PRO SERIES FEATURES INCLUDE:
- A quick-release cover for fast tubing access
- Electronic controls for extended motor life
- A three-way switch controls Time/OFF/Continuous
- Self-priming pump
- Includes Clear Tygon and Black Norprene Squeeze Tubes
- 30 psi rating
- 18-ft. suction lift
- Pumps operate on 9-minute cycles
- Available in 120V or 240V corded or permanent wire
- Maximum amps – 2.5
- One-year limited warranty (tubing not included)
- **Manufactured in the USA**

three-roller operation

ROLA-CHEM PRO SERIES SIZING GUIDE
ESTIMATED MAXIMUM GALLONS PER DAY

SETTINGS	ON	OFF	RC-252	RC-25/53	RC-103	RC-503
LO	4 SEC.	8 MIN. 56 SEC.	.01	.10	.34	1.00
2	1.5 MIN.	7.5 MIN.	.18	1.20	3.72	8.88
3	3 MIN.	6 MIN.	.33	3.60	10.80	24.00
4	4.5 MIN.	4.5 MIN.	.50	6.00	19.40	40.00
5	6 MIN.	3 MIN.	.66	8.40	25.20	53.00
6	7.5 MIN.	1.5 MIN.	.78	11.00	33.40	67.00
HI	8 MIN. 56 SEC.	4 SEC.	.90	12.00	38.00	77.00
OUNCES PER MINUTE AT FULL ON			.08	1.06	3.37	6.84

two-roller operation
(1) GPD pump only

ROLA-CHEM PRO SERIES OUTPUT RATES

| MODEL	MINIMUM FEED RATE/24HR	MAXIMUM FEED RATE/24HR	RECOMMENDED VOLUME OF SPA WATER TO BE TREATED (GALLONS)*	RECOMMENDED VOLUME OF POOL WATER TO BE TREATED (GALLONS)*	MAXIMUM VOLUME OF WATER TO BE TREATED (GALLONS) - PER CALIFORNIA BUILDING CODE TITLE 24
RC-252 SC	.01 GPD	.9 GPD	500-2,500	2,500-5,000	3,000
RC-25/53 SC	.10 GPD	12 GPD	2,500-25,000	5,000-65,000	40,000
RC-103 SC	.34 GPD	38 GPD		65,000-200,000	127,000
RC-503 SC	1.0 GPD	77 GPD		200,000-400,000	257,000

GPD = GALLONS PER DAY   *USING 12.5% LIQUID CHLORINE

ROLA-CHEM PUMPS
ARE (NSF®) c(UL)us LISTED.

ROLA-CHEM®

GENERATION II DIGITAL CONTROLLERS
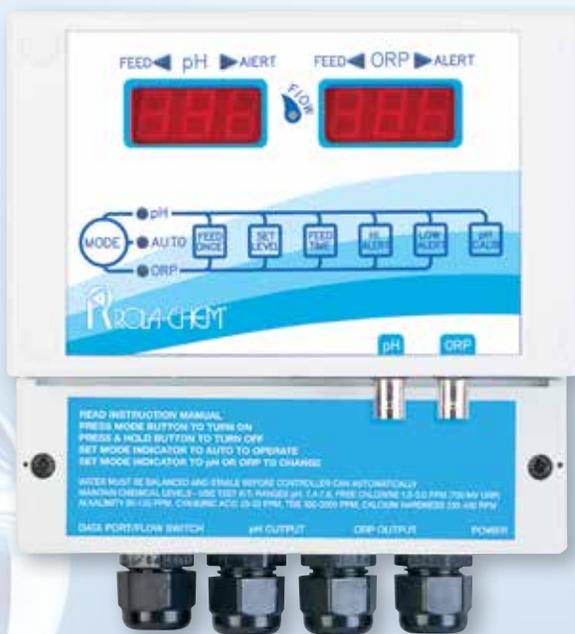
MODEL RC554XP
P/N 554000
Digital pH/ORP Controller

INCLUDES: Controller, flow cell with flow switch, probes, 3/8" tubing and fittings.

	pH	ORP	Feed Cycle
• Factory Setting:	7.4	650 mV	.6 sec.
• Display Range:	6.8–8.2	0–995 mV	
• Setpoint Range:	7.0–8.0	400–900 mV	
• Feed Cycles:	.6 to 900 seconds with 5-minute analyzation periods		
• Power:	120V corded (input/output)		
• Feed:	Timed or Continuous		
• Maximum Output:	5 Amps		

NSF/ANSI 50 LISTED

MODEL RC554XXP
P/N 554300
Digital pH/Dual ORP Controller
USED TO CONTROL TWO SANITIZER SOURCES

INCLUDES: Controller, flow cell with flow switch, probes, 3/8" tubing and fittings.

	pH	ORP1	ORP2	Feed Cycle
• Factory Setting:	7.4	650 mV	640 mV	.6 sec.
• Display Range:	6.8–8.2	0–995 mV	0–995 mV	
• Setpoint Range:	7.0–8.0	400–900 mV	400–900 mV	
• Feed Cycles:	.6 to 900 seconds with 5-minute analyzation periods			
• Power:	120V corded (input/output)			
• Feed:	Timed or Continuous			
• Maximum Output:	3.15 Amps			

NSF/ANSI 50 LISTED

DIGITAL pH/ORP CONTROLLERS FEATURE:

- Digital readouts
- ORP technology
- Redox sensor
- Proportional feed or continuous feed
- Dip switch programmable settings

- Built-in out-of-range safety timeouts
- pH calibration
- Acid or base feed
- Microprocessor logic
- Globe flow cell with flow switch

- Compatible with most peristaltic pumps
- Can also be used with erosion feeder/ solenoid applications
- **Manufactured in the USA**

ONE-YEAR LIMITED WARRANTY ON CONTROLLER ELECTRONICS AND PROBES
NOTE: It is recommended that an in-line filter system (part number 550591) be used before the flow cell.
MET controllers are also available.

NSF/ANSI 50 LISTED

NSF/ANSI 50 LISTED

MODEL RC554P
P/N 554200
Digital pH Controller

INCLUDES: Controller, flow cell with flow switch, pH probe, 3/8″ tubing and fittings.

	pH	Feed Cycle
• Factory Setting:	7.4	.6 sec.
• Display Range:	6.8-8.2	
• Setpoint Range:	7.0-8.0	
• Feed Cycles:	.6 to 900 seconds with 5-minute analyzation periods	
• Power:	120V corded (input/output)	
• Feed:	Timed or Continuous	
• Maximum Output:	5 Amps	

- Easy to read, sun bright LED display
- Compact package (approx. 7" x 3" x 3")
- **Manufactured in the USA**

MODEL RC554X
P/N 554230
Digital ORP Controller

INCLUDES: Controller, flow cell with flow switch, ORP probe, 3/8" tubing and fittings.

	ORP	Feed Cycle
• Factory Setting:	650 mV	.6 sec.
• Display Range:	0–995 mV	
• Setpoint Range :	400–900 mV	
• Feed Cycles:	.6 to 900 seconds with 5-minute analyzation periods	
• Power:	120V corded (input/output)	
• Feed:	Timed or Continuous	
• Maximum Output:	5 Amps	

- Easy to read, sun bright LED display
- Compact package (approx. 7" x 3" x 3")
- **Manufactured in the USA**

NOW AVAILABLE

MODEL RC554M
P/N 554400
Controller Remote Monitor

- Monitor is compatible with Rola-Chem Generation II Digital pH/ORP Controllers: RC554XP (manufactured after October 2015) and RC554XXP (manufactured after May 2016)
- Monitor will upload controller data at specific intervals – set by operator
- Secure website with operator set password
- Serial connection cable from monitor to data port of contoller is included
- A hardwired ethernet connection with unrestricted internet access must be provided
- LED lights verify connection to local network (Green) and activity (Amber)
- Internal reset button – used to reconnect monitor to server
- Power down will automatically reconnect monitor to server
- Includes 12-month subscription

ONE-YEAR LIMITED WARRANTY ON CONTROLLER ELECTRONICS AND PROBES
NOTE: It is recommended that an in-line filter system (part number 550591) be used before the flow cell.

READY-TO-MOUNT CONTROLLER SYSTEMS

(All components required for pool automation mounted on a polypropylene board.)

pH Liquid Acid/ORP Liquid Chlorine System

554107

INCLUDES: Programmable Digital pH/ORP Controller complete with Flow Cell, Flow Switch, Sample Valves, ORP and pH Probes, 40′ of Black 3/8″ Tubing, 100′ Clear 7/16″ Tubing and Fittings, two Peristaltic Pumps (38 GPD), In-line Flow Cell Strainer.

Also Available:

554118	includes <u>one</u> **38 GPD** & <u>one</u> **12 GPD** Peristaltic Pump
554119	includes <u>two</u> **1 GPD** Peristaltic Pumps
554120	includes <u>two</u> **12 GPD** Peristaltic Pumps
554121	includes <u>one</u> **1 GPD** & <u>one</u> **12 GPD** Peristaltic Pump
554410	includes <u>one</u> **77 GPD** & <u>one</u> **38 GPD** Peristaltic Pump

Control Two Sanitizer Sources with Digital pH/Dual ORP System

554320

INCLUDES: Programmable Digital pH/Dual ORP Controller complete with Flow Cell, Flow Switch, Sample Valves, ORP and pH Probes, 40′ of Black 3/8″ Tubing, 100′ Clear 7/16″ Tubing and Fittings, two Peristaltic Pumps (38 GPD), In-line Flow Cell Strainer.

554430 includes <u>two</u> **12 GPD** Peristaltic Pumps

NOTE: Complete systems mounted to a polypropylene board. These systems are designed to control pools up to 100,000 gallons. Larger pools may require larger GPD peristaltic pumps.

READY-TO-MOUNT CONTROLLER SYSTEMS

(All components required for pool automation mounted on a polypropylene board.)

550290
Solenoid Kit

pH/ORP Erosion Feeder System

554222

INCLUDES: Programmable Digital pH/ORP Controller complete with Flow Cell, Flow Switch, Sample Valves, ORP and pH Probes, 40′ of Black 3/8″ Tubing, 100′ Clear 7/16″ Tubing and Fittings, one Peristaltic Pump (38 GPD), 120 volt Solenoid Kit (includes Solenoid, In-line filter and Check Valve), In-line Flow Cell Strainer.
Erosion Feeder NOT included.

554122   includes one **12 GPD** Peristaltic Pump

pH/ORP Salt Generator System

554223

INCLUDES: Programmable Digital pH/ORP Controller complete with Flow Cell, Flow Switch, Sample Valves, ORP and pH Probes, 40′ of Black 3/8″ Tubing, 100′ Clear 7/16″ Tubing and Fittings, one Peristaltic Pump (38 GPD), In-line Flow Cell Strainer.

• Power output to Salt Generator (not included) is 110 Volt 5 Amp

554123   includes one **12 GPD** Peristaltic Pump

pH Only Liquid Acid System

554217

INCLUDES: Programmable Digital pH Controller complete with Flow Cell, Flow Switch, Sample Valves, pH Probe, 40′ of Black 3/8″ Tubing, 100′ Clear 7/16″ Tubing and Fittings, one Peristaltic Pump (38 GPD), In-line Flow Cell Strainer.

554234   includes one **12 GPD** Peristaltic Pump

ORP Only Liquid Chlorine System
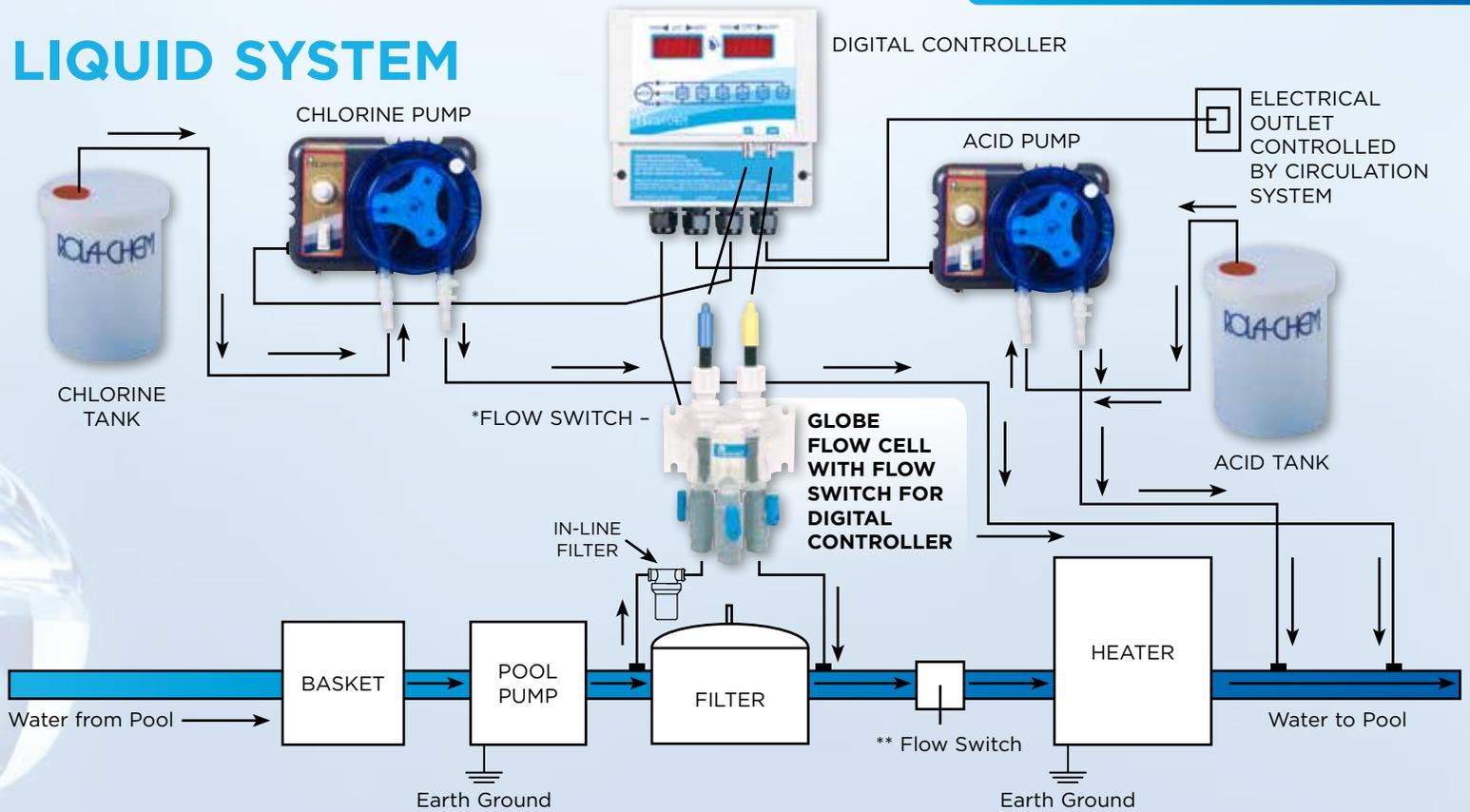
554233

INCLUDES: Programmable Digital ORP Controller complete with Flow Cell, Flow Switch, Sample Valves, ORP Probe, 40′ of Black 3/8″ Tubing, 100′ Clear 7/16″ Tubing and Fittings, one Peristaltic Pump (38 GPD), In-line Flow Cell Strainer.

554235   includes one **12 GPD** Peristaltic Pump
554229   includes one 120 Volt Solenoid Kit (for erosion system)

ROLA-CHEM®

LIQUID SYSTEM

DIGITAL CONTROLLER

CHLORINE PUMP

ACID PUMP

ELECTRICAL OUTLET CONTROLLED BY CIRCULATION SYSTEM

CHLORINE TANK

ACID TANK

*FLOW SWITCH –

GLOBE FLOW CELL WITH FLOW SWITCH FOR DIGITAL CONTROLLER

IN-LINE FILTER

HEATER

Water from Pool

BASKET

POOL PUMP

FILTER

** Flow Switch

Water to Pool

Earth Ground

Earth Ground
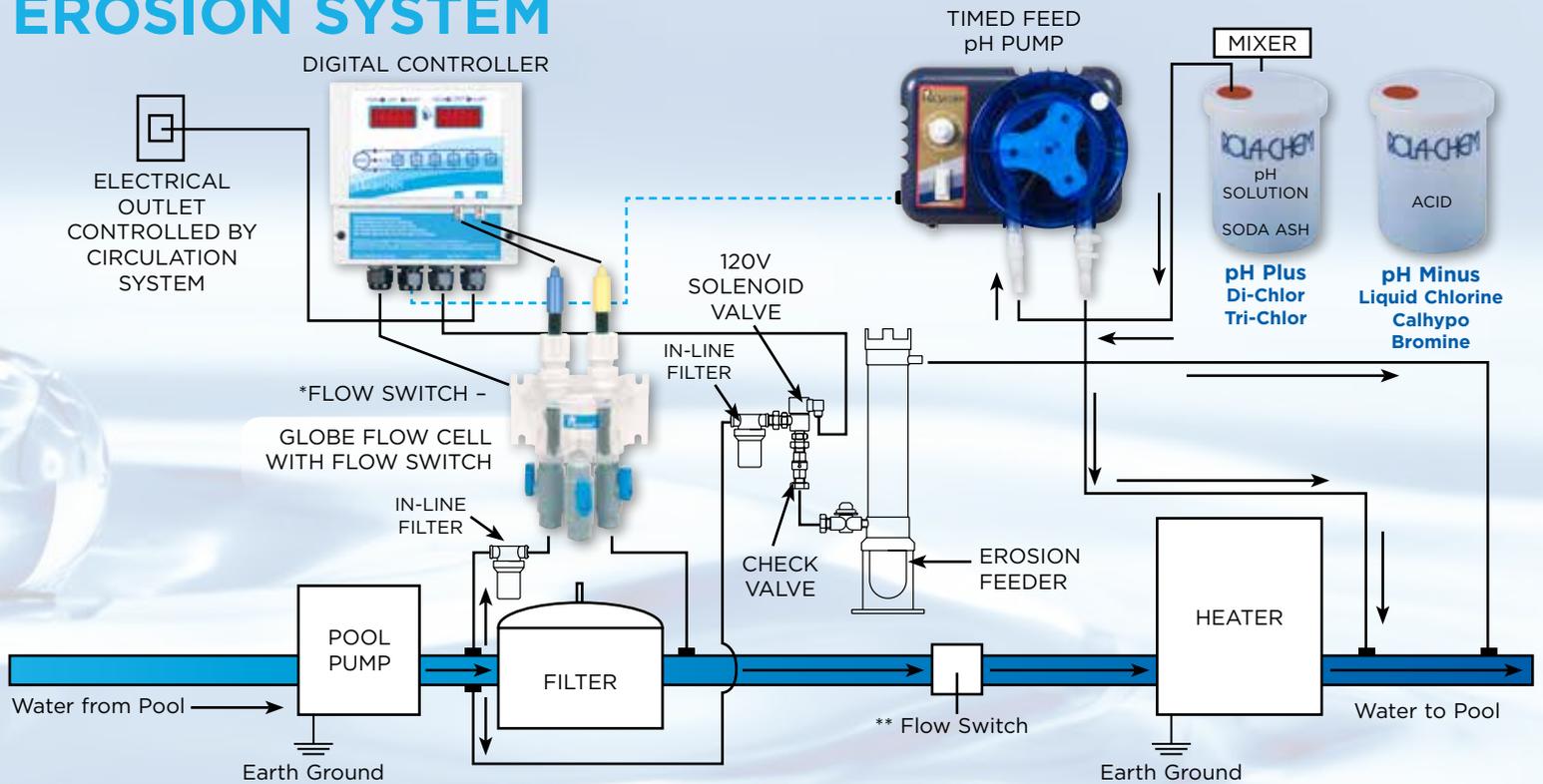
* **Flow switch to ensure circulation to control probes and indication that pool circulation is occurring (Included in Digital Controller/Globe Flow Cell Only)**

** **Safety flow switch for protection of heater and to ensure dilution of chemical into pool**

EROSION SYSTEM

TIMED FEED pH PUMP

MIXER

DIGITAL CONTROLLER

ELECTRICAL OUTLET CONTROLLED BY CIRCULATION SYSTEM

pH SOLUTION

SODA ASH

ACID

pH Plus
Di-Chlor
Tri-Chlor

pH Minus
Liquid Chlorine
Calhypo
Bromine

*FLOW SWITCH –

GLOBE FLOW CELL WITH FLOW SWITCH

120V SOLENOID VALVE

IN-LINE FILTER

IN-LINE FILTER

CHECK VALVE

EROSION FEEDER

HEATER

Water from Pool

POOL PUMP

FILTER

** Flow Switch

Water to Pool

Earth Ground

Earth Ground

* **Flow switch to ensure circulation to control probes and indication that pool circulation is occurring (Included in Digital Controller/Globe Flow Cell Only)**

** **Safety flow switch for protection of heater and to ensure dilution of chemical into pool**

PROFESSIONAL SYSTEM COMPONENTS

550180
Globe Flow Cell
Made from high-impact
acrylic with Flow Switch

• For Digital Controller System

550089
Probe Replacement Fitting
• For Flow Cells

550135
**8' pH
Heavy-Duty
Probe**

550136
**8' ORP
Heavy-Duty
Probe**

550208
**3' pH
Heavy-Duty
Probe**

550209
**3' ORP
Heavy-Duty
Probe**

• For Digital & Analog Controller System

550201
ORP Gold Tip Probe
• Recommended for
use with Chlorine
(Salt) Generators

**Visit Rola-chem.com for
more system accessories.**

7125190
Quick Connect Valve
3/8" Tubing x 1/4" MNPT
• For Flow Cells

550193
Tubing Connectors
3/8" Tubing x 1/4" MNPT

550194
Black Tubing
3/8"

**Hose
Assemblies**

523140 Norprene

523118 Tygon

**Check
Valves**

521160
3/8" Hose Barb x 3/8" Hose Barb

521170
3/8" Hose Barb x 1/4" MNPT

Injectors

527158

527159

520113

523400
Tri-Roller

523114
Norprene Hose
Black

523115
Tygon Hose

RolaCHEM

NO MORE CLOGGED FLOWMETERS!
ROLA-CHEM'S FLOWMETERS HAVE A WIDE CHAMBER THAT GREATLY REDUCES MINERAL DEPOSITS BY ALLOWING HIGHER FLOW VOLUME

Designed to be compatible with practically every existing flowmeter, replace your old clogged flowmeters with these accurate, easily serviced units from **Rola-Chem**.

Rola-Chem flowmeters are built to withstand water temperatures up to 200°F and are manufactured to work with schedule 40 PVC pipe.

ACCURATE READINGS
- Our heavy-duty gasket ensures airtight seals

VISUAL INDICATOR
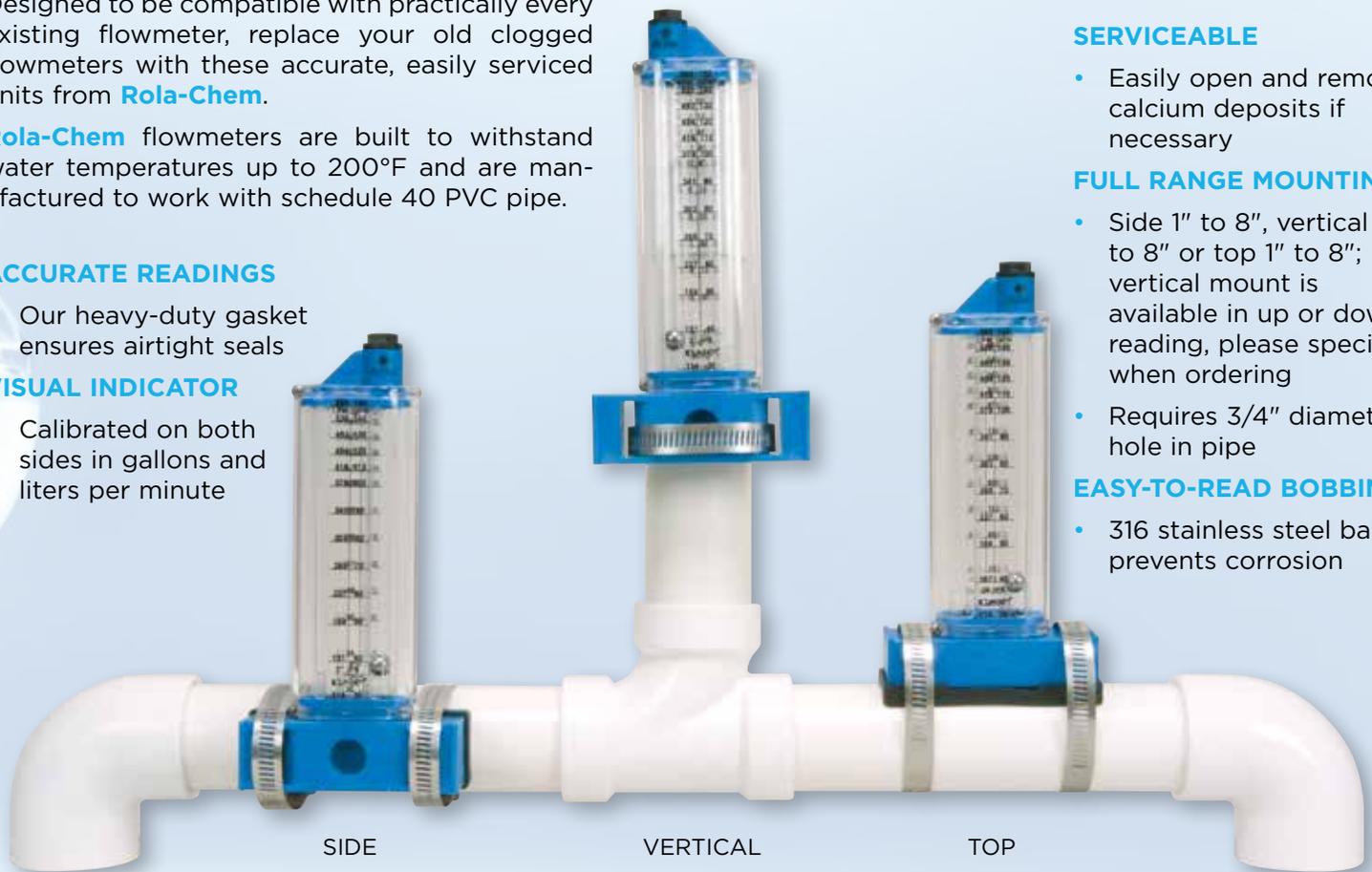- Calibrated on both sides in gallons and liters per minute

SERVICEABLE
- Easily open and remove calcium deposits if necessary

FULL RANGE MOUNTING
- Side 1″ to 8″, vertical 1″ to 8″ or top 1″ to 8″; vertical mount is available in up or down reading, please specify when ordering
- Requires 3/4″ diameter hole in pipe

EASY-TO-READ BOBBIN
- 316 stainless steel ball prevents corrosion

SIDE   VERTICAL   TOP

FLOWMETER SPECIFICATIONS - MINIMUM DIMENSIONS

MODEL NO.	PIPE MATERIAL	PIPE SIZE	A* MINIMUM	B** MINIMUM	RANGE GPM	RANGE LPM	CLAMP SIZE	MOUNT POSITION
570321	PVC-GALV	1″	5″	10″	10-30	38-114	40	S, T, & V
570331	PVC-GALV	1.25″	6″	11″	15-50	57-189	44	S, T, & V
570340	COPPER	1.5″	8″	15″	20-55	76-208	44	S, T, & V
570341	PVC-GALV	1.5″	8″	15″	25-60	95-227	44	S, T, & V
570350	COPPER	2″	10″	20″	40-140	151-530	56	S, T, & V
570351	PVC-GALV	2″	10″	20″	40-140	151-530	56	S, T, & V
570360	COPPER	2.5″	13″	25″	70-245	265-927	64	S, T, & V
570361	PVC-GALV	2.5″	13″	25″	70-240	265-908	64	S, T, & V
570370	COPPER	3″	15″	30″	100-280	379-1060	64	S, T, & V
570371	PVC-GALV	3″	15″	30″	100-300	379-1136	64	S, T, & V
570380	COPPER	4″	20″	40″	200-480	757-1816	44 (2)	S, T, & V
570381	PVC-GALV	4″	20″	40″	175-500	662-1893	44 (2)	S, T, & V
570391	PVC-GALV	6″	30″	60″	400-1050	1514-3975	64 (2)	S, T, & V
570401	PVC-GALV	8″	40″	80″	700-1900	2650-7192	72 (2)	S, T, & V

*A = Minimum distance from downstream elbow or restriction.   ****B = Minimum distance from upstream elbow or restriction.**

After Part Number, Indicate Mounting: (T) = Top • (S) = Side • (V) = Vertical

55 GAL.

30 GAL.

15 GAL.

5 GAL.

CHEMICAL TANKS

Rola-Chem offers a range of heavy-duty tanks and covers available in 5, 15, 30, and 55 gallon sizes. Precision-molded of high-density polyethylene polymer, which is highly resistant to corrosive solutions. For your convenience, tanks and lids are sold separately.

FEATURES:
- Heavy-Duty Construction - formed from high-density polyethylene
- Translucent - allows visual check of chemical level
- UV Protected - solar rays will not damage chemicals

SYSTEM TANK

FEATURES:
- Convenient mounting of your Rola-Chem Pump on tank
- Includes chemical re-fill and pick-up holes
- Heavy-Duty Construction - formed from high-density polyethylene
- Translucent - allows visual check of chemical level
- UV Protected - solar rays will not damage chemicals

543724   RC-103 SC Rola-Chem Pro Series Pump 38 GPD mounted on a 15-Gallon Poly Tank

543725   RC-25/53 SC Rola-Chem Pro Series Pump 12 GPD mounted on a 15-Gallon Poly Tank

*15 GAL. ONLY
(Pump not included.)

CHEMICAL TANKS - SPECIFICATIONS

TANKS & COVERS		DIMENSIONS			
PART	PRODUCT DESCRIPTION	CAPACITY	HT.	DIA.	WT.
561004	Poly Tank	5 GAL	14"	11"	6#
561105	Poly Cover w/Cap Plug	5 GAL			
561015	Poly Tank	15 GAL	21.5"	15"	15#
561115	Poly Cover w/Cap Plug	15 GAL			
561030	Poly Tank	30 GAL	28.5"	18"	17#
561130	Poly Cover w/Cap Plug	30 GAL			
561055	Poly Tank	55 GAL	34"	22.5"	22#
561155	Poly Cover w/Cap Plug	55 GAL			
561265	System Tank*	15 GAL	36.75"	15"	12#