



Accessories:

Chemical Feed Pumps
Pro Chemicals
Test Kits
Mazzei Injectors
John Guest Fittings



Chemical Feed Pumps

45 Pump Series Single Head Adjustable Rate

How it Works

Stenner's adjustable metering pump is built with three detachable components: the motor, feed rate control and pump head. Outputs are dependent upon three factors: the rpm of the motor gears, the percentage setting on the feed rate control and the size of the peristaltic pump tube. All Stenner metering pumps have a 3-point roller design in the pump head, which acts as a check valve to prevent back flow, siphoning, overdosing and loss of prime.

The motor shaft rotates at a fixed rpm which drives the adjustable feed rate control to intermittently engage the roller assembly within the pump head. The chemical solution in the pump tube is captured between the rollers as they rotate and compress the tube. As the rollers advance, the squeezed tube section regains its original form and generates a vacuum, creating the self-priming feature that delivers a constant flow unaffected by the outlet pressure.



STENNER PUMPS

Advantages:

- ➔ Self-priming up to 25 feet does not lose prime
- ➔ Can pump off-gassing solutions
- ➔ Solutions contained in tube, not exposed to pump components or air
- ➔ Sub-assemblies fit together without tools, easy service or conversion to another model
- ➔ Pump head universal to all Stenner pumps
- ➔ Can run dry without damage
- ➔ Will not clog from dirt or debris
- ➔ Reproducible outputs within 2%
- ➔ Adjustable feed rate control from 5% - 100% in 2.5% increments
- ➔ Pump tubes accept a variety of chemical
- ➔ 1 Year Guarantee from date of manufacture

the patented mechanical feed rate control allows the pump's output to be scaled from 5% to 100% with the simple turn of the dial.

Chemical Feed Pumps

45MHP2

100 psi (6.9 bar)
max 3 gpd (11 lpd)

Outputs @ 60Hz

Gallons per day: 0.2 to 3.0
Gallons per hour: 0.01 to 0.13
Liters per day: 0.8 to 11.4
Liters per hour: 0.03 to 0.48
Ounces per minute: 0.02 to 0.27
Milliliter per minute: 0.56 to 7.92

Outputs @ 50Hz

Liters per day: 0.6 to 9.1
Liters per hour: 0.03 to 0.38
Milliliters per minute: 0.31 to 6.32

Maximum Operating Temperature

12° F (52° C)

Amp Draw

1.7 120V; 0.9 220V, 230V, 250V

Dimensions (l x w x h)

10.6 x 5.3 x 6.0 in
(26.9 x 13.4 x 15.2 cm)

Shipping Weight

9 lbs (4 kg)

45MHP10

100 psi (6.9 bar)
10 gpd (38 lpd)

Outputs @ 60Hz

Gallons per day: 0.5 to 10.0
Gallons per hour: 0.02 to 0.42
Liters per day: 1.9 to 37.9
Liters per hour: 0.08 to 1.58
Ounces per minute: 0.04 to 0.89
Milliliter per minute: 1.32 to 26.32

Outputs @ 50Hz

Liters per day: 1.5 to 30.3
Liters per hour: 0.06 to 1.26
Milliliters per minute: 1.04 to 21.04

Discharge Pressure

26-100 psi (1.7-6.9 bar)

Voltage

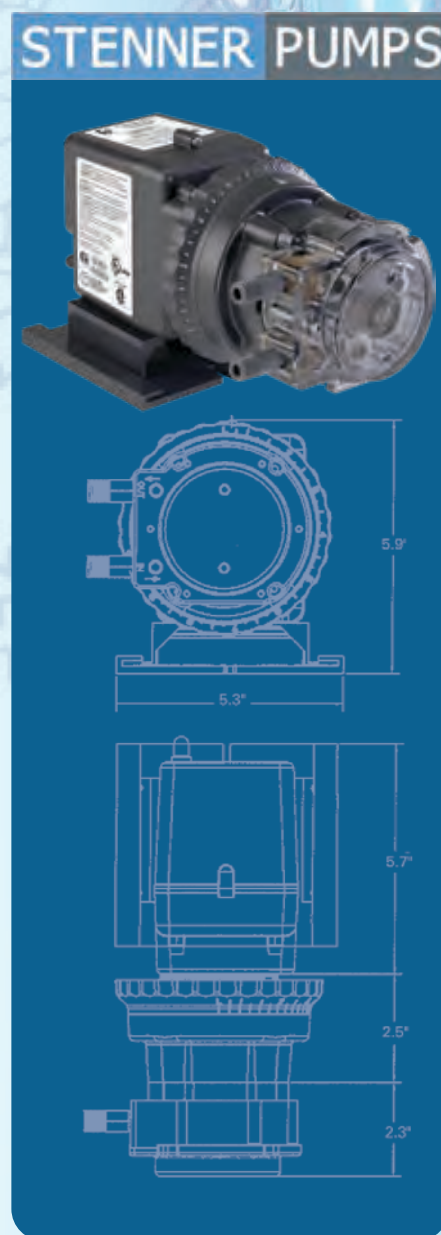
120V 60Hz; 220V 60Hz
230V 50Hz; 250V 50Hz International

Motor

shaded pole; 26 rpm; 1/30 HP

Suction Lift

25' (7.6 m)



Item #		Model	Tube	Feed Rate Setting: Outputs per day in US Gallons @ 60Hz										
CDN #	US #			L	1	2	3	4	5	6	7	8	9	10
11873	11873	45MHP2	#1	0.2	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3
11874	11810													
11876	11809	45MHP10	#2	0.5	1	2	3	4	5	6	7	8	9	10
11879	11808													

Item #	Description
11873	45MHP2-110v, ¼" tubing
11874	45MHP2-220v, ¼" tubing
11876	45MHP10-110v, ¼" tubing
11879	45MHP10-220v, ¼" tubing

Chemical Feed Pumps

85 Pump Series Single Head Adjustable Rate

How it Works

Stenner's fixed output metering pump is built with two detachable components: the motor and pump head. Outputs are dependent upon the rpm of the motor gears and the size of the peristaltic pump tube.

The fixed rate pump has no output adjustment. All Stenner metering pumps have a 3-point roller design in the pump head, which acts as a check valve to prevent back flow, siphoning, overdosing and loss of prime.

The motor's output shaft rotates at a fixed rpm which drives the roller assembly within the pump head. The chemical solution in the pump tube is captured between the rollers as they rotate and compress the tube. As the rollers advance, the squeezed tube section regains its original form and generates a vacuum, creating the self-priming feature that delivers a constant flow unaffected by the outlet pressure.



STENNER PUMPS

Advantages:

- Self-priming up to 25 feet and does not lose prime
- Can pump off-gassing solutions
- Solutions contained in tube, not exposed to pump components or air
- Subassemblies fit together without tools; easy service or conversion to another model
- Pump head universal to all Stenner pumps
- Can run dry without damage
- Will not clog from dirt or debris
- Reproducible outputs within 2%
- Adjustable feed rate control from 5%-100% in 2.5% increments
- Pump tubes accept a variety of chemicals

Outputs @ 60Hz

Gallons per day: 0.8 to 17.0
Gallons per hour: 0.03 to 0.71
Liters per day: 3.0 to 64.4
Liters per hour: 0.13 to 2.68
Ounces per minute: 0.07 to 1.51
Milliliter per minute: 2.08 to 44.65

Outputs @ 50Hz

Liters per day: 2.4 to 51.5
Liters per hour: 0.10 to 2.15
Milliliters per minute: 1.67 to 35.76

Discharge Pressure

26-100 psi (1.7-6.9 bar)

Voltage

Voltage 120V 60Hz; 220V 60Hz/230V 50Hz; 250V 50Hz International

Motor

shaded pole; 44 rpm; 1/30 HP

Suction Lift

25' (7.6 m)

Maximum Operating Temperature

125° F (52° C)

Amp Draw

1.7 120V; 0.9 220V, 230V, 250V

Dimensions (l x w x h)

10.6 x 5.3 x 6.0 in
(26.9 x 13.4 x 15.2 cm)

Shipping Weight

9 lbs (4 kg)

Item #		Model	Tube	Feed Rate Setting: Outputs per day in US Gallons @ 60Hz										
CDN #	US #			L	1	2	3	4	5	6	7	8	9	10
11880	11852	85MHP5	#1	0.3	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
11872	11853													

Item #	Description
11880	STENNER-PUMP-85MHP5-110
11872	STENNER-PUMP-85MHP5-220

Chemical Feed Pumps

Materials of Construction

All Housings: Lexan® polycarbonate plastic
Pump tube & check valve duckbill: Santoprene® FDA approved

Pump tube: Tygothane® FDA approved

Checkvalve duckbill (w/Tygothane tube): Pellathane®

Suction/discharge tubing & ferrules (1/4" & 6 mm):

LDPE polyethylene,

NSF/FDA approved

Tube fittings, connecting nuts, check valve fitting,

weighted strainer: Type 1 Rigid PVC-NSF listed

All fasteners: Stainless Steel

Lexan® is a registered trademark of General Electric.

Santoprene® is a registered trademark of Advanced Elastomer system

Tygothane® is a registered trademark of Saint-Gobain Performance Plastics

Pellathane® is a registered trademark of The Dow Company

STENNER PUMPS



Agency listings

Santoprene®: UL, CSA, CE, NSF-50, NSF-61

Tygothane®: UL, CSA, CE

Accessories shipped with each pump

- 3 connecting nuts 1/4" or 3/8"
- 3 ferrules 1/4" & 6 mm or 2 ferrules 3/8"
- 1 injection check valve
- 1 weighted strainer
- 1 20' roll of suction/discharge tubing 1/4" or 3/8" white or UV black or 6 mm (Europe) white
- 1 spare pump tube
- 1 mounting bracket
- 1 installation manual

Stenner Pump Control Module

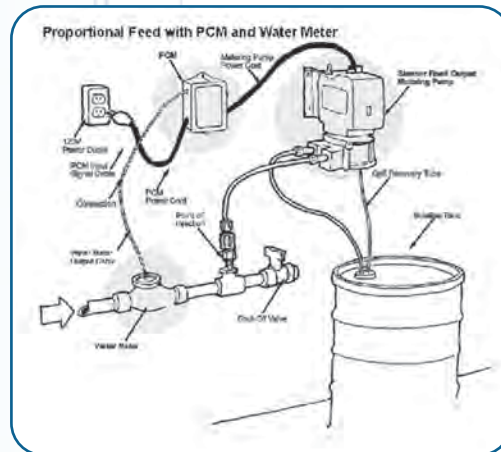
How It Works:

The Pump Control Module (PCM) is a component of the proportional feed system, which delivers repeatable doses regardless of the system's flow rate. The system is used in applications requiring proportional chemical injection.

The proportional feed system, Stenner refers to as the PCM system consists of three components:

- ➔ PCM – pump control module
- ➔ Single head fixed output pump (45 or 85 model)
- ➔ Dry contact water meter

The water meter sends a pulse signal to the PCM which activates the pump to deliver the desired dose based on water volume. The PCM turns on the pump for the set duration determined to inject the solution into the water line.



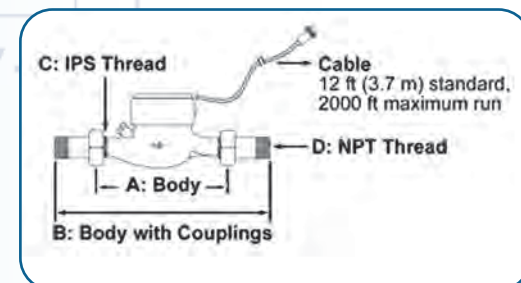
Water Meters

Features:

- ➔ Reed switch
- ➔ Dry contact
- ➔ Power not required

Material:

- ➔ Body: Cast bronze
- ➔ Internal: Engineered thermoplastic
- ➔ Magnet: Alnico



Size	A Body	B Body w Couplings	C IPS Thread	D NPT Thread
3/4"	7 1/2" (19.1 cm)	12 5/8" (32.1 cm)	1" (2.5 cm)	3/4" (1.9 cm)
1"	10 1/4" (26.0 cm)	15 5/8" (36.7 cm)	1 1/4" (3.2 cm)	1" (2.5 cm)
1 1/2"	11 3/4" (29.9 cm)	17 5/8" (44.8 cm)	2" (5.1 cm)	1 1/2" (3.8 cm)
2"	11 3/4" (29.9 cm)	17 5/8" (44.8 cm)	2 1/2" (6.4 cm)	2" (5.1 cm)

Water Meters		Min Flow	Max Flow	Max Operating Temp	Max Operating Pressure
Part #	Description	(Gallons Per Minute)			
80060050	Meter, Contacting Stenner WM0751G 3/4" 1Gallon/Pulse	0.22	22	105 F (40 C)	150 psi
80060051	Meter, Contacting Stenner WM1001G 1" 1Gallon/Pulse	0.44	52	105 F (40 C)	150 psi
80060052	Meter, Contacting, 1.5" 1.0 GPC, 404(Gal/Contact)	0.88	88	105 F (40 C)	150 psi
80060053	Meter, Contacting, 2.0" 1.0 GPC, 504(Gal/Contact)	1.98	132	105 F (40 C)	150 psi
27339	Timer, Stenner, Pump Control Module 5, 0.5 to 5.0 seconds				

Flow Switch (Low Flow Rate – SPDT)

Description:

For use on liquid lines using water, ethylene glycol solutions, or other liquids not corrosive to the brass or phosphor bronze parts. The SPDT contact switch is activated by a low flow rate; however, it has a large flow capacity with a minimum pressure drop.

Applications:

- ➔ Water purification and treatment systems
- ➔ Booster pumps
- ➔ Fast shutdown on high input boilers to guard against circulation failure
- ➔ Cooling systems for electronic tubes, bearings, and compressors



F61KD-4

Item #	Description	Inlet and Outlet Size Female NPT	Enclosure NEMA Type	Adjustment Range - GPM (L/Min)		Maximum Liquid Temp	Minimum Liquid Temp	Maximum Liquid Pressure
				R to Y Closes Flow Increase	R to Y Opens Flow Decrease			
85251	F61KD-4C Flow Switch (Low Flow Rate - SPDT)	3/4" x 3/4" (19mm x 19mm)	1	Min 0.6 (2.27) Max 1.1 (4.17)	Min 0.3 (1.14) Max 0.9 (3.4)	250°F (121°C)	32°F (0°C)	150 psig (1034 kPa)

Item #	Description
32881	K3VTC1 - KOP KIT
32880	K4VTC1 - KOP KIT

Dimensions
5 1/32" h x 4" w x 2 13/16" d
127mm x 102mm x 71mm)

Pulsafeeder Kopkit



Electrical	120 VAC
Horsepower	1
AC Full Load A	16
AC Locked Rotor A	96
Non-Inductive or Resistance Load A	16
Pilot Duty	125 VA, 24/277 VAC

Kopkit®

Available for every model, the KOPkit provides an economically priced package of parts required for routine maintenance. The kit typically contains new valve cartridges with o-rings, head, diaphragm, secondary o-ring seal, head screws and washers.

Retention Tanks

Made from a unique 3 piece internal construction that allows for consistent engineered dome profiles and integrally bonded connections that lead to longer tank life. Its heavy duty base is molded out of ABS for maximum strength and durability. And, It has a removable schedule 80 PVC bottom connection that can be "accessorized" for increased installation flexibility.

- ➔ Durable PVC water connection.
- ➔ Flexwave tanks are made in the USA and built to comply with NSF/ANSI Std 61
- ➔ 5 year warranty



FWC Contact Retention Tanks - Dimensions & Capacities

Part #	Description	Total Tank Volume		Height		Diameter		Socket Glue Connection	FPT	Total Weight	
		Gallons	Litres	In	Cm	In	Cm			Lbs	Kilos
33201-1	AFLU30-EZ	30	114	42.5	108	16.5	41.8	1 1/4"schd-80	1 1/4"	23.0	10.4
33202-1	AFLU40-EZ	40	151	53.4	135.6	16.5	41.8	1 1/4"schd-80	1 1/4"	31.0	14.1
33203-1	AFLU40SQ-EZ	40	151	36.9	93.8	21.4	54.2	1 1/4"schd-80	1 1/4"	33.1	15.0
33204-1	AFLU80-EZ	80	303	64.1	162.8	21.4	54.2	1 1/4"schd-80	1 1/4"	60.0	27.0
33205-1	AFLU120-EZ	120	454	71.5	181.6	24.2	61.4	1 1/4"schd-80	1 1/4"	83.5	38.0

Maximum working temperature, internal & external 120F. Materials of Construction: Tank top and bottom domes injection molded copolymer polypropylene. Shell extruded polypropylene. Outer shell composite construction with fiberglass coated with epoxy resin. Base is injection molded ABS. Top and side ports are stainless steel reinforced.

BAF Mixing Tank - Dimensions & Capacities

Part #	Description	Total Tank Volume		Height		Diameter		Thread Connection	Outlet Connection at top of tank	Total Weight	
		Gallons	Litres	In	Cm	In	Cm			Lbs	Kilos
33217	BAF 80	80	303	64.1	163	21.4	54.4	1 1/4"NPT	1 1/4" FPT	23.0	10.4
33211	BAF 120	119	450	71.5	182	21.4	54.4	1 1/4"NPT	1 1/4" FPT	31.0	14.1

Maximum working pressure 100 PSI. Maximum working temperature, internal & external 120F. Materials of Construction: Copolymer polypropylene wrapped with fiberglass coated with epoxy resin. Base is rigid ABS. Inner baffle is a copolymer polypropylene with a PVC sch 40 standpipe and diffuser cap. Top port is stainless steel reinforced and bottom connections are a 1 1/4" NPT schedule 80- connection

Mixing Tanks



The Mixmaster(BAF) Series tanks are a retention tank with an internal baffle and diffuser which improves mixing and increases the retention time improving the effectiveness of chemical treatment of water for disinfection or mineral removal. Great for killing bacteria or for agricultural applications.

- ➔ Polypropylene tank reinforced with fiberglass sealed with epoxy resin.
- ➔ Cross- link polyethylene upper and lower water chamber. Standpipe and diffuser 1-1/4" pvc sch 40

Metal Storage Tanks for Reverse Osmosis Applications

Water goes through a reverse osmosis membrane very slowly and people don't have the patience to wait a long time to get a glass of water. For this reason the residential RO units need a water storage tank to store the purified water. The RO tanks can deliver stable and constant water flow when the faucet is opened.

To avoid bad odors from the diaphragm, all of the tank diaphragms are post-cured before assembly, to eliminate the possibility of odors from the tank.

Tanks are NSF approved under standard 58, and CE approved under the PED (pressure equipment directive).



- ➔ Maximum Working Pressure: 100PSI
- ➔ All Tanks are Pre-charged at 7 PSI
- ➔ Fittings sold separately
- ➔ NSF 58 certified



Item #	Description	Port	Capacity gal (liters)	Diameter inch (mm)	Height inch (mm)	Color	Shipping Weight lbs (kg)
92371	PRO-3.2	1/4" NPT	3.2 (12)	8.98 (228)	13.8 (345)	White	9.9 (4.5)
92372	PRO-11	3/4" NPT	11 (41.6)	14.97 (380)	21.2(530)	Blue	28 (12.7)
92373	PRO-20	3/4" NPT	20 (71.7)	14.97 (380)	28.8 (720)	Blue	39 (17.17)

Shut-off Valve for 1/4" NPT Tank Item #	Description
PPSV500822W	Shut Off Valve, 1/4" QC X 1/4" NPTF
PPSV501222W	Shut Off Valve, 3/8" QC X 1/4" NPTF
80704	Shut Off Valve, 3/8" Comp Nut X 1/4" NPTF
Shut-off Valve for 3/4" NPT Tank Item #	Description
92295	Kit, 3/8" Comp Nut Shut-off valve X 3/4" NPTF

Chemicals



Sani-System Liquid Sanitizer Concentrate

Sani-System is the only EPA & NSF approved sanitizer for use in water softeners and reverse osmosis units. It's proven to kill 99.99% of harmful bacteria without the use of chlorine, oxidizers or acids that can harm system equipment parts and resin. The exact pre-measured doses of concentrated

Simple to Use:

For water softeners it is as simple as pouring into the brine well or brine tank and manually regenerating the unit. For reverse osmosis units, simply remove the cartridges and place the packet contents in the first housing and flush. Sani-System is the only sanitizer on the market proven by the WQA to safely sanitize an RO unit membrane.

User Benefits:

- ➔ Faster, easier and safer than other alternative sanitizers
- ➔ Easy & reliable single dose packages
- ➔ 99.99% effective kill rate against harmful bacteria
- ➔ Only sanitizer on market proven by WQA to sanitize membrane

Technical Information:

- ➔ Sani-System is a clear liquid and will react to oxidizers
- ➔ Routine storage. Rubber gloves are suggested when handling. Read all relevant MSDS before handling.
- ➔ Do not mix with other chemicals
- ➔ Certified to NSF/ANSI 60 Standards

Part #	Description
50035	Sani-System RO Sanitizer 0.25 fl.oz (24 Packets)
50032	Sani-System Water Softener Sanitizer 0.5 fl.oz (24 Packets)

Chemicals

Pro Chemicals

Pro Chemicals provides a diverse portfolio of water softener cleaners designed to clean, restore and maintain the life of water softeners. These products are formulated to treat water softeners with iron or for daily preventative maintenance.

Rust Out® Water Softener Cleaner/iron remover

Rust Out® chemically removes iron and rust build-up that coats the resin bead and fouls the water softener. Rust Out changes rust and iron into a clear solution that easily rinses away and does not contain harsh or abrasive chemicals that damage fiberglass, porcelain or acrylic finishes. The advanced formula contains more than five chemicals that are formulated to clean, restore and maintain the life of water softeners. Rust Out can also be used to clean tough rust stains from toilets, sinks, tubs, white clothes and exterior surfaces.



Item #	Description
45126	Rust Out - 1.5 lb. Bottle
45127	Rust Out - 5 lb. Bottle
45128	Rust Out - 50 lb Pail



Res Care® Liquid Resin Cleaning Solution

Res Care® is a specially formulated liquid cleaner designed to remove limited iron, manganese, silt, metal particles and organic compounds that cause softener inefficiencies. Regular use of Res Care will restore the softener back to peak efficiency and maintain the life of the unit. For best results use a Res Care Automatic Feeder or manually add during regeneration to prevent mineral build-up.

Item #	Description
45147	Res Care - 1 gal. (128 oz) Bottle
80030022	Res Care - 64 oz Bottle (Easy Feeder Refill)
45148	Res Care - 1 qt. (32 oz) Bottle

Chemicals

Easy Feeder

The Pro Easy Feeder automatically dispenses the right amount of Pro Res Care Cleaning Solution to maintain water softener efficiency. The Pro Easy Feeder is non-electric and easy to install and use. For use with 64 oz bottles of Res Care.



Item #	Description
55030005	Easy Feeder - 0.5 oz/day Feeder
55030006	Easy Feeder - 1.0 oz/day Feeder



Pot® Perm Greensand Iron Filter Regenerant

Pro Pot Perm is an iron filter regenerant and a strong oxidizing agent that converts dissolved iron and/or manganese to insoluble oxides which can easily be removed through filtration. As an iron filter regenerant, Pot Perm regenerates and oxidizes greensand iron filter media, restoring the exchange capacity of the unit.

Item #	Description
45143-1	Pot Perm - 4.75 Lb. Bottle
45145-1	Pot Perm - 10 Lb. Bottle
50010	Pot Perm - 55 Lb. Bottle

Chemicals

Part #	Description
45138	Ban T - 1.5 lb. Bottle

Ban T® Alkaline Water Neutralizer

Ban T® (formerly called Pro-Citric Acid) is specifically formulated to effectively lower pH and remove iron and other contaminants from fouled water softeners. Ban T should be used as preventative maintenance on all water softeners in areas with moderate iron content to clean, restore and maintain the life of the softener. Ban T is an environmentally-friendly cleaning agent that removes hard water deposits and moderate iron staining from household fixtures.



Neutra Sul® - Eliminate Rotten Egg Smell Professional Grade Oxidizer

Protects against irregular coloring and rotten egg smells in treated water. Pro Neutra Sul® is formulated to neutralize the rotten egg smell and pollutants from any water supply through oxidation. Neutra Sul should be used in place of Hydrogen Peroxide 7% solution to prevent the formation of colors, tastes, corrosion and scaling by pollution degradation. Pro Neutra Sul is NSF Certified to meet NSF/ANSI Standard 60 for drinking water additives.

Part #	Description
50023	Neutra Sul -1 gallon Bottle

Neutra 7® Acid Water Neutralizer®

Neutra 7® (formerly called Pro Soda Ash) is a proprietary alkaline blend which neutralizes acid water and keeps the injection point clean. This helps to eliminate corrosion of piping, pressure tanks, water heaters and fixtures without the hassle of constant cleaning of calcium build-up.

Part #	Description
45157	Neutra 7 - 7 Lb. Bottle
45158	Neutra 7 - 40 Lb. Pail



Hach Test Kits



#202300



#49018



#66751



#4918370



**NEW Dealer Combination Kit –
Hardness, iron,
sulphur, pH, Manganese, TDS**

PART #	DESCRIPTION
Test Kits	
49145300	5B HARDNESS KIT - 0-30 GPG
49146700	MN5 MANGANESE (0-3 MG/L) KIT
49193701	TA3 TANNIN - LIGNIN KIT
49225401	CN65 TOTAL CHLORINE KIT / 0.2 - 20
49223101	KIT,TEST,CN-66,CHLORINE,TOTAL/FREE,0.1-3.5
49018	HS-C HYDROGEN SULPHIDE KIT (0 - 5 MG/L)
49016	TEST KIT COMBINATION DEALER 2496101
202300	TEST KIT, HA-77 HARDNESS & IRON
33004	SOAP TEST KIT
491407699	CHLORINE, PP DPD TOTAL, 5 ML, 100/PK TEST STRIPS
491407799	CHLORINE, DPD FREE, 5 ML, 100/PK TEST STRIPS
49183701	HA62A HARDNESS, IRON, pH KIT
49-1464-01	KIT,TEST,IR188,IRON,0-10
Testers & Meters	
80050007	PH/TEMP WATERPROOF HYDRO TESTER, PH-80
66761	PH/TEMP METER, pH-200, 0-14 pH
66751	METER TDS MYRON L 0-5000 PPM 512M5
66760	TESTER,TDS,TDS-3,0-9990 PPM,TEMP,C/W CASE,HMDIGI
Solutions & Reagents	
4942511	SOLUTION, HARDNESS 2, 500 ML
4942616	SOLUTION, HARDNESS 3, 500 ML
49022	TABLETS, ALKASELTZER 36
4985199	PILLOW, HARDNESS INDICATOR POWDER PK/100 Manver 2
4998499	PILLOW, SODIUM PERIODATE POWDER PK/100
4998366	PILLOW, BUFFER CITRATE POWDER PK/100
301233	PILLOW, FERROUS IRON REAGENT POWDER PK/100
4985466	PILLOW, FERROVER POWDER,25ML ,PK\100
49021	PILLOW, BROMTHYMOL BLUE,POWDER PK\100
49023	PAPER, HYDROGEN SULFIDE 100
301518	UNIVER 3 POWDER PILLOWS,PK/100
301226	HARDNESS 3 TEST SOLUTION,100 ML MDB
301228	HARDNESS 2 TEST SOLUTION,100 ML MDB 42532
301227	BUFFER SOLUTION HARDNESS 3 ,100 ML MDB 42432
492107669	BUFFER CITRATE TYPE PK/100,10 ML
4921320	UNIVER 3 POWDER 28.3 GRAMS 213-20H
49008	WIDE RANGE,4 PH IND,100ML,C/W DROPPER
4921111	PHENOL RED,IND SOLN,500ML
492107769	SODIUM PERODATE 10ML PK/100
492105769	FERROVER IRON RGT PK/100, 10 ML
12098071	DPD,TOTAL CHLORINE,10 ML REAGENT,100PACK,#2105669
12098070	DPD,FREE CHLORINE, 10 ML REAGENT,100PACK,#2105569
Miscellaneous	
49014	DROPPER,CHILD RES,ASSY,PK\6
49173006	TUBE,VIEWING,/5ML MARK,
4943906	BOTTLE,SQUARE GLASS,



#49145300 hach 5b hardness test Kit 1 – 30 gpg
Trust the original Hach test kit! Simple drop count
Titration measures hardness as CaCo3(1 gpg = 17.1
mg / l). 100 tests.

Spectrum Test Kits (U.S. Only)

SPECTRUM High Quality Test
For Testing the Quality of Water

	Basic	Standard	Deluxe
Components	2403	2401	2404
Sturdy Plastic Case	X	X	X
Hardness Test	X	X	X
Iron Test		X	X
pH Test		X	X
Chlorine Test			X
TDS Test			X



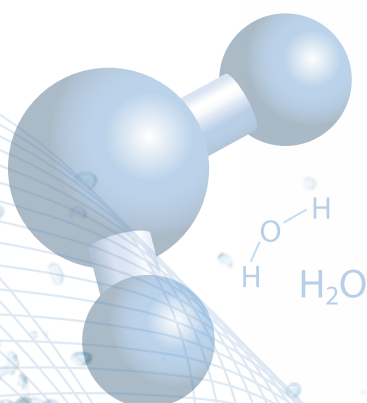
Basic Kit Hardness



Standard Kit Hardness,
Iron, pH & Chlorine

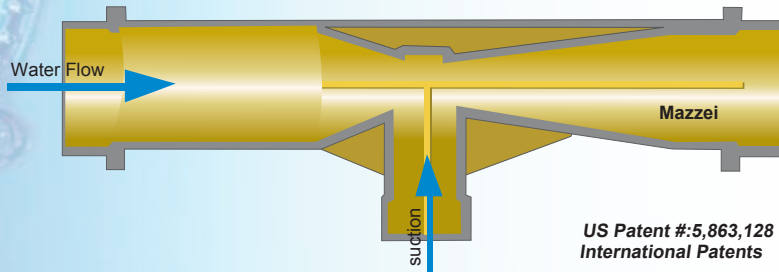


Deluxe Kit Hardness,
Iron, pH, Chlorine & TDS



Mazzei Injectors

Mazzei® Injectors are high-efficiency, venturi-type, differential pressure injectors with internal mixing vanes. When a sufficient pressure difference exists between the inlet and outlet ports of the injector, a vacuum is created inside the injector body, which initiates suction of a liquid or gas through the suction port.



Item #	Description
80040001	Injector, Mazzei, 384-PP, ½" Inlet / Outlet
13584-484A	Injector, Mazzei, 484A-PP, ¾" Inlet / Outlet
13584-384	Injector, Mazzei, Bypass Kit 384-PP, ½" Inlet / Outlet
80040004	Injector, Mazzei, Bypass Kit 484A-PP, ¾" Inlet / Outlet

How a Mazzei® Injector Works

When pressurized water enters the injector inlet, it is constricted toward the injection chamber and changes into a high-velocity jet stream. The increase in velocity through the injection chamber results in a decrease in pressure, thereby enabling an additive material to be drawn through the suction port and entrained into the water stream. As the jet stream is diffused toward the injector outlet, its velocity is reduced and it is re-converted into pressure energy (but at a pressure lower than injector inlet pressure).

Mazzei® Injectors are extremely efficient. They operate over a wide range of pressures and require only a minimal pressure differential between the inlet and outlet sides to initiate a vacuum at the suction port.

Mattson / Witt K7225 Eductor

Used for iron removal - the K7225 Eductor is used in combination with an aeration tank and a backwashable filter containing special media, adds a controlled amount of air to the water supply just before it enters the aeration tank. As the water sprays into the aeration tank it picks up more air. The oxygen in the air starts the natural iron removal process by oxidizing the iron and causing it to come out of solution. The iron can then be more easily filtered.



Item #	Description
33354	Eductor PVC 1" FXF 0-15 GPM Single Port

Tubing & Fittings (John Guest Quick Connect)

Polypropylene Fittings

The PP Range of inch-size push-in fittings is offered for tube sizes 1/4" O.D. to 1/2" O.D. The fittings are manufactured in white polypropylene with food grade EPDM O-rings. They have been developed to satisfy the compatibility needs for a wide range of applications.

Working Pressures and Temperatures

Water Max. 150 psi at 70°F (Max. 10 Bar at 20°C)

Max. 60 psi at 140°F (Max. 4 Bar at 60°C)

Min. 33°F/1°C



Polypropylene Shut-Of Valve

The PPSV Range of Shut-Off Valve is offered for tube sizes 1/4" O.D. and 3/8" O.D., produced in polypropylene and fitted with EPDM O-rings. Polypropylene has the advantage of being more chemically resistant than acetal. The valves are for use with potable water. For use with other potable liquids please contact our Technical Support Department for guidance. The valves are not to be used with compressed air, explosive gases, petroleum spirits and other fuels or for heating systems.

Working Pressures and Temperatures

Water Max. 150 psi at 70°F (Max. 10 bar at 20°C)

Max. 60 psi at 140°F (Max. 4 bar at 60°C)

Min. 33°F/1°C



Polypropylene Fittings

The John Guest PE Range of plastic tubing is produced in Linear Low Density Polyethylene for cold and intermittent hot water applications. Our tubing is made from FDA compliant materials and is NSF International Standard 51 & 61 certified. John Guest LLDPE Tubing provides excellent resistance to environmental stress cracking as measured by ASTM D-1693 (10% IGEPAL). John Guest Polyethylene tubing is designed for use with John Guest Super Speedfit push-in fittings, John Guest Shut-Off Valves and virtually all standard tubing connectors.

Tubing & Fittings (John Guest Quick Connect)

Part #	Model Description
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Male Connector - NPTF Thread



CI010821W	1/4" X 1/8"-WHITE, (10 Pack)
CI010822W	1/4" X 1/4"-WHITE, (10 Pack)
CI010823W	1/4" X 3/8"-WHITE, (10 Pack)
CI011222W	3/8" X 1/4"-WHITE, (10 Pack)
PI010821S	1/4" X 1/8", (10 Pack)
PI010822S	1/4" X 1/4", (10 Pack)
PI010823S	1/4" X 3/8", (10 Pack)
PI011221S	3/8" X 1/8", (10 Pack)
PI011222S	3/8" X 1/4", (10 Pack)
PI011223S	3/8" X 3/8", (10 Pack)
PI011224S	3/8" X 1/2", (10 Pack)
PI011623S	1/2" X 3/8", (10 Pack)
PI011624S	1/2" X 1/2", (10 Pack)
PI012026S	1/4" X 3/4", (10 Pack)
PP010822W	1/4" X 1/4"-WHITE, (10 Pack)
PP010823W	1/4" X 3/8"-WHITE, (10 Pack)
PP011222W	3/8" X 1/4"-WHITE, (10 Pack)
PP011223W	3/8" X 3/8", (10 Pack)
PP011224W	3/8" X 1/2", (10 Pack)
PP011623W	1/2" X 3/8", (10 Pack)
PP011624W	1/2" X 1/2", (10 Pack)

Male Connector - Flare Male Connector (tube X thread)



PI0108F4S	1/4" X 1/4", (10 Pack)
PI0112F4S	3/8" X 1/4", (10 Pack)
PI0112F6S	3/8" X 3/8", (10 Pack)
PI0112F8S	3/8" X 1/2", (10 Pack)
PI0116F8S	1/2" X 1/2", (10 Pack)

Union Tee (for use when branching of - RO faucets & tanks)



CI0208W	1/4" - WHITE, (10 Pack)
CI0212W	3/8" - WHITE, (10 Pack)
PI0208S	1/4", (10 Pack)
PI0212S	3/8", (10 Pack)
PI0216S	1/2", (10 Pack)
PP0208W	1/4", (10 Pack)
PP0212W	3/8", (10 Pack)

Reducing Tee (tube x tube x branch)



PI301208S	3/8" X 3/8" X 1/4", (10 Pack)
PI301612S	1/2" X 1/2" X 3/8", (10 Pack)
PP30121208W	3/8" X 3/8" X 1/4", (10 Pack)
PP301612W	1/2" X 1/2" X 3/8", (10 Pack)

Part #	Model Description
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Union Elbow (tube)



CI0308W	1/4" - WHITE, (10 Pack)
CI0312W	3/8" - WHITE, (10 Pack)
PI0308S	1/4", (10 Pack)
PI0312S	3/8", (10 Pack)
PI0316S	1/2", (10 Pack)
PP0308W	1/4", (10 Pack)
PP0312W	3/8", (10 Pack)
PP0316W	1/2", (10 Pack)

Fixed Elbow (NPTF Thread - tube X thread)



CI480821W	1/4" X 1/8" - WHITE, (10 Pack)
CI480822W	1/4" X 1/4" - WHITE, (10 Pack)
CI480823W	1/4" X 3/8" - WHITE, (10 Pack)
CI481222W	3/8" X 1/4" - WHITE, (10 Pack)
PI480821S	1/4" X 1/8", (10 Pack)
PI480822S	1/4" X 1/4", (10 Pack)

PI480823S	1/4" X 3/8", (10 Pack)
PI481222S	3/8" X 1/4", (10 Pack)
PI481223S	3/8" X 3/8", (10 Pack)
PI482024S	5/8" X 1/2", (10 Pack)
PP480821W	1/4" X 1/8", (10 Pack)
PP480822W	1/4" X 1/4", (10 Pack)
PP480823W	1/4" X 3/8", (10 Pack)
PP481222W	3/8" X 1/4", (10 Pack)
PP481223W	3/8" X 3/8", (10 Pack)

Reducing Elbow (tube X tube)



PI211208S	3/8" X 1/4", (10 Pack)
PI211612S	1/2" X 3/8", (10 Pack)
PP211208W	3/8" X 1/4", (10 Pack)
PP211612W	1/2" X 3/8", (10 Pack)

Plug In/Stem Elbow (stem X tube)



CI220808W	1/4" X 1/4" - WHITE, (10 Pack)
CI221208W	3/8" X 1/4" - WHITE, (10 Pack)
CI221212W	3/8" X 3/8" - WHITE, (10 Pack)
PI220808S	1/4" X 1/4", (10 Pack)
PI221208S	3/8" X 1/4", (10 Pack)
PI221212S	3/8" X 3/8", (10 Pack)
PI221616S	1/2" X 1/2", (10 Pack)
PP220808W	1/4" X 1/4", (10 Pack)
PP221208W	3/8" X 1/4", (10 Pack)
PP221212W	3/8" X 3/8", (10 Pack)
PP221616W	1/2" X 1/2", (10 Pack)

Tubing & Fittings (John Guest Quick Connect)

Part #	Model Description
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Union Connector (tube X tube)



CI0408W	1/4" - WHITE, (10 Pack)
CI0412W	3/8" - WHITE, (10 Pack)
PI0408S	1/4", (10 Pack)
PI0412S	3/8", (10 Pack)
PI0416S	1/2", (10 Pack)
PP0408W	1/4", (10 Pack)
PP0412W	3/8", (10 Pack)
PP0416W	1/2", (10 Pack)

Reducing Union (union X tube X tube)



PI201208S	3/8" X 1/4", (10 Pack)
PI201612S	1/2" X 3/8", (10 Pack)
PP201208W	3/8" X 1/4", (10 Pack)
PP201612W	1/2" X 3/8", (10 Pack)

Stem Adaptor (NPTF Thread - stem X thread)



CI050821W	1/4" X 1/8" - WHITE, (10 Pack)
CI050822W	1/4" X 1/4" - WHITE, (10 Pack)
CI051222W	3/8" X 1/4" - WHITE, (10 Pack)
CI051223W	3/8" X 3/8" - WHITE, (10 Pack)
PI050821S	1/4" X 1/8", (10 Pack)
PI050822S	1/4" X 1/4", (10 Pack)
PI051222S	3/8" X 1/4", (10 Pack)
PI051223S	3/8" X 3/8", (10 Pack)
PI051623S	1/2" X 3/8", (10 Pack)
PI051624S	1/2" X 1/2", (10 Pack)
PP050821W	1/4" X 1/8", (10 Pack)
PP050822W	1/4" X 1/4", (10 Pack)
PP051222W	3/8" X 1/4", (10 Pack)
PP051223W	3/8" X 3/8", (10 Pack)
PP051623W	1/2" X 3/8", (10 Pack)
PP051624W	1/2" X 1/2", (10 Pack)

Stem Reducer (stem X thread)



CI061208W	3/8" X 1/4" - WHITE, (10 Pack)
PI061208S	3/8" X 1/4", (10 Pack)
PI061612S	1/2" X 3/8", (10 Pack)
PP061208W	3/8" X 1/4", (10 Pack)
PP061612W	1/2" X 3/8", (10 Pack)

Part #	Model Description
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Bulkhead Union (tube X mounting hole diameter)



CI1208W	1/4" - 0.67 - WHITE, (10 Pack)
PI1208S	1/4" - 0.67, (10 Pack)
PI1212S	3/8" - 0.83, (10 Pack)
PI1216S	1/2" - 1.06, (10 Pack)
PP1208W	1/4" - 0.67, (10 Pack)
PP1212W	3/8" - 0.83, (10 Pack)
PP1216W	1/2" - 1.06, (10 Pack)

Reducing Bulkhead Union (tube X tube X mounting hole diameter)



PI121208S	3/8" X 1/4" - 0.83, (10 Pack)
PP121208W	3/8" X 1/4" - 0.83, (10 Pack)

Faucet Connector UNS Thread (tube X thread)



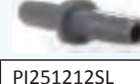
CI3208U7S	1/4" X 7/16", (10 Pack)
CI3212U7S	3/8" X 7/16", (10 Pack)
PP3208U7W	1/4" X 7/16", (10 Pack)
PP3212U7W	3/8" X 7/16", (10 Pack)

Stem to Hose Barb (stem X hose barb)



PI250808S	1/4" X 1/4", (10 Pack)
PI251208S	3/8" X 1/4", (10 Pack)
PI251212S	3/8" X 3/8", (10 Pack)
PI251216S	3/8" X 1/2", (10 Pack)
PP251212W	3/8" X 3/8", (10 Pack)
PP251216W	3/8" X 1/2", (10 Pack)
PP251612W	1/2" X 3/8", (10 Pack)
PP251616W	1/2" X 1/2", (10 Pack)

Stem to Hose Barb Long Version (stem X hose barb)



PI251212SL	3/8" X 3/8", (10 Pack)
PI290808S	1/4" X 1/4", (10 Pack)
PI291208S	3/8" X 1/4", (10 Pack)

Female Connector NPTF Thread (tube X thread)



PI450822S	1/4" X 1/4", (10 Pack)
PI451222S	3/8" X 1/4", (10 Pack)
PP450822W	1/4" X 1/4", (10 Pack)
PP451222W	3/8" X 1/4", (10 Pack)

Tubing & Fittings (John Guest Quick Connect)

PEI202820 3/4" x 1/2" Reducing Coupler,

PEX Plug-in Elbow



PEI222020 PEX Plug-In Elbow, 1/2" Stem - 1/2" Pipe,

PEI222828 PEX Plug-In Elbow, 3/4" Stem - 3/4" Pipe,

PEX Reducing Tee



PEI3028A PEX Reducing Tee 3/4" x 3/4" x 1/2" CTS,

PEI3028B PEX Reducing Tee 3/4" x 1/2" x 1/2" CTS,

PEI3028C PEX Reducing Tee 1/2" x 1/2" x 3/4" CTS,

PEI3028D PEX Reducing Tee 3/4" x 1/2" x 3/4" CTS,

PEX Stackable Tee



PEI532020 PEX Stackable Tee 1/2" CTS x 1/2" Stem x 1/2" CTS

PEI532820 PEX Stackable Tee 3/4" CTS x 3/4" Stem x 1/2" CTS

PEI532828 PEX Stackable Tee 3/4" CTS x 3/4" Stem x 3/4" CTS

PEX Miscellaneous



PEIBTC2034 PEX Female Swivel Elbow, 1/2" CTS x 1/2" NPS

PEIBTC20C75 PEX Female Ballcock Elbow, 1/2" CTS x 7/8"-15/16 UNS

PEISTC2034 PEX Female Swivel Connector, 1/2" CTS x 1/2" NPS

PEISTC20C75 PEX Female Ballcock Connector, 1/2" CTS x 7/8"-15/16 UNS

Installation Fitting Guide for Valves



Description: Straight, Inlet/Outlet, 3/4" NPT
Used on: 65/75/85/85HE
Item no.: 60010020
O-ring to match: 60010026
Assy: 60090006



Description: Straight, Inlet/Outlet, 1" NPT
Used on: 65/75/85/85HE
Item no.: 60010019
O-ring to match: 60010026
Assy: 60090003



Description: Straight, Inlet/Outlet, 1" NPT
Used on: 95
Item no.: 60010213
O-ring to match: 60010216
Assy: 60090013



Description: Elbow, Inlet/Outlet, 3/4" NPT
Used on: 65/75/85/85HE
Item no.: 60010023
O-ring to match: 60010026
Assy: 60090010



Description: Elbow, brine line, 3/8" NPT
Used on: 85HE/89
Item no.: 60010172
O-ring to match: 60010185
Assy: 60090004



Description: Straight, Inlet/Outlet, 1.5" NPT
Used on: 95/95MTS
Item no.: 60010215
O-ring to match: 60010216
Assy: 60090011



Description: Elbow, drain line barb
Used on: 65/75/85/85HE
Item no.: 60010229
O-ring to match: 60010044
Assy: 60090001



Description: 45° Elbow, drain line barb
Used on: 65/75/85/85HE
Item no.: 60010250
O-ring to match: 60010044
Assy: 60090024



Description: Straight, Inlet/Outlet, 1" US standard
Used on: 65/75/85/85HE
Item no.: 60010325
O-ring to match: 60010026
Assy: 60090032



Description: Elbow, drain line, 1/2" NPT
Used on: 65/75/85/85HE
Item no.: 60010251
O-ring to match: 60010044
Assy: 60090025



Description: Brine line plug, Bypass plug
Used on: 65/75/85/85HE/89, 063 bypass, 89 bypass
Item no.: 60010209
O-ring to match: 60010044
Assy: 60090005



Description: Straight, Inlet/Outlet, 1.25" NPT
Used on: 95/95MTS
Item no.: 60010214
O-ring to match: 60010216
Assy: 60090012



Description: Elbow, Inlet/Outlet, 1" NPT
Used on: 89
Item no.: 60010252
O-ring to match: 60010590
Assy: 60090026



Description: Straight, Inlet/Outlet, 1" NPT
Used on: 89
Item no.: 60010592
O-ring to match: 60010590
Assy: 60090027



Description: Port plug
Used on: 95/95MTS/95HF
Item no.: 60010212
O-ring to match: 60010211
Assy: 60090031



Description: Drain line hose barb
Used on: 89
Item no.: 60010255
Gasket to match: 60010256
Assy: 60090028



Description: Elbow, drain line, 3/4" NPT
Used on: 89/95
Item no.: 60010253
O-ring to match: 60010211
Assy: 60090029



Description: Elbow, drain line, 1" NPT
Used on: 89/95/95MTS/95HF
Item no.: 60010254
O-ring to match: 60010211
Assy: 60090030



Description: Straight, Inlet/Outlet, 3/4" US standard
Used on: 65/75/85/85HE
Item no.: 60010013
O-ring to match: 60010026
Assy: 60090033



Description: Elbow, Inlet/Outlet, 1.25" NPT
Used on: 89
Item no.: 60010272
O-ring to match: 60010590
Assy: 60090036