Series PZ / PZi / PZiG Pulse Metering Pumps



The Power of Intelligent Pumps Expands!



Feature	TYPE ▶		NUAL ITROL	EXTERNAL INPUT		MMABLE OUTPUTS
reature		PZ	PZD	PZi4	PZi8	PZiG
	• PZ Models (Speed only is adjustable from 15 to 300 SPM)	•	_	_	_	_
Manual control	• PZD & PZi Models (Adjust speed 1 to 300 SPM plus stroke length adjustment ¹)	_	•	•	•	•
	Enter desired flow directly in ml/min.	_	•	_	•	•
Calibration function	Calibrate pump flow to actual condition of chemical, pressure, viscosity, etc.	_	•	_	•	•
Control input	• External interlock (Examples: level switch, remote start, reset)	_		•	•	•
Operation	• Indicates speed and status	_		•	•	•
display	• Indicates speed, feed rate ² , status and other operational data	_	_	_	•	•
	• Pulse signal Frequency-divide 1/1 to 1/9999, Multiply 1 to 9999 (See pg.6)	_		•	•	•
Signal input ³ 4-pin connector	• Analog signal Shift function, Proportional band function (See page 6)	_		•	•	•
+ pill connector	• pH Control/Residual Chlorine Control (See page 8)	_		_	_	•
_	• Alarm output (Level switch, injection monitor ²)	_		_	•	•
Signal output ⁴ 8-pin connector	Operation pulse signal (Synchronous pulse output for each stroke)	_	_	_	•	•
o-pin connector	Operation progress signal (Time or number of strokes remaining in program)	_		_	•	•
Alarms	Alarm display, output and action (run, pause or stop) can be selected	_	_	_	•	•
	• Two point level control (See page 9)	_	_	_	•	•
	Power supply for flow checker	_	_	_	•	_
Other functions	• Interval operation (Repeat cycle program, see page 9) ON time: 1 to 999999 minutes / OFF time: 1 to 999999 minutes	_	_	_	•	•
	• Counter (Countdown batch injection, see page 9) 1 to 9999 strokes (X1, X10, X100, X1000)	_	_	_	•	•
	• Head can be turned 90° to allow base to be mounted to a vertical wall 5	•		•	•	

NOTES: 1. PZi4 and PZi8 Models in sizes -31/-61/-12: 50% to 100% stroke length adjustment.

PZi4 and PZi8 Models in sizes -32/-52 plus all PZD and PZiG Models: 20% to 100% stroke length adjustment.

- 2. PZi8 only when used with Flow Checker shown on page 5.
- 3. PZi4 has one analog input and one high speed digital pulse input; PZi8 and PZiG have one analog input and two high speed digital pulse inputs. See page 9.
- 4. Two separate configurable outputs, either open collector (alarm, error, run) or pulse (operational sync or end of cycle).
- 5. Sizes -31/-61/-12 only.

MODEL NUMBER SELECTION – The complete model number consists of three parts: TYPE + SIZE + MATERIAL CODE

TYPE – Specify **PZ** or **PZD** for manual control; specify **PZi4** for external input; specify **PZi8** for programmable models. The largest models are the **PZiG** Series, available in full programmable type only.

SIZE – Size code selects the capacities per the charts on page 3. Sizes **-31**, **-61** and **-12** are available for type PZ. Higher capacity sizes **-32** and **-52** are available for type PZD. All five sizes are available for types PZi4 and PZi8. The very high PZiG capacities are shown in a separate chart.

MATERIAL CODE – Select from charts on page 4.

Example – The complete model for a pump with a Kynar liquid end with Viton seals rated at 160 ml/min capable of accepting a 4-20mA input would be:

Type **PZi4** + Size **-61** + Material code **-FFC**

The complete model number becomes

PZi4-61-FFC

Type PZD/PZi-32/52 High Capacity Models

PZD Series pumps offer higher capacities. These models feature an extra large keyboard and the injection rate can be entered directly in milliliters per minute.

The injection rate can be set three ways by direct entry of:

- Stroke speed: 1 to 300 spm
- Percentage: 1 to 100%
- Injection rate: ml/min.

High Capacity models are available in material codes VFC, VEC, SS and FTC only.

• Onboard calibration measures the VFC model is shown. actual discharge volume under the exact operating condition of the specific installation and chemical, then stores that value to insure the correct injection rate.



- Manual stroke length adjustment 20% to 100%.
- Set points can be easily viewed on the LCD.
- Pump head may be rotated to face in any of the three positions other than where the keypad and display are located.
- Pump head can be decoupled from the controller base for remote mounting.

Type PZiG Programmable Large Volume Models

PZiG Models offer capacities typically requiring motor driven pumps. Special models easily handle viscosities of 1000 CPS (up to 4000 CPS at reduced volume).

Powerful onboard controls allow proportional flow rate, pH and residual chlorine control by direct analog connection eliminating the PID Controller and Inverter (plus the control panel to house them), that are required by similar sized motor driven pumps.

The injection rate can be set three ways by direct entry of:

- Stroke speed: 1 to 300 spm
- Percentage: 1 to 100%
- Injection rate: ml/min.
- Manual stroke length adjustment 20% to 100%.

Control Functions also include (see pages 8 & 9):

- Onboard calibration measures the actual discharge volume under the exact operating condition of the specific installation and chemical, then stores that value to insure the correct injection rate.
- Multi-pump proportional flow rate injection from a single direct flowmeter signal (pulse/analog).
- Two point level switch control (see page 9)

Note: Install a pulsation dampener for discharge lines greater than 7 feet to achieve maximum pressure capability.

> PZiG with VTCF **Liquid Head**

- Batch injection
- Interval injection
- Proportional control with shift and proportional band function.
- Two line LCD screen displays injection rate and/or operational progress.



TYPE & SIZE SELECTION CHART: PZ / PZD / PZi4 / PZi8

Head can be turned 90° to allow base to be mounted to a vertical wall (-31/-61/-12 only).

	NUAL	EXTERNAL INPUT MODEL 1	PROGRAMMABLE MODEL ¹	MA GPD	X. CAPAC GPH	CITY ML/MIN.	MAX. PRES. PSI	DWG./ CURVE	STROKE LENGTH (MM)	MAX. PWR. (VA)	AVG. PWR. (WATTS)
PZ-31	1-HP ²	PZi4-31-HP ²	PZi8-31-HP ²	10.5	0.44	28	220	page 7	1.0	200	15
PZ-31	1	PZi4-31	PZi8-31	12	0.5	30	140	page 7	1.0	200	15
PZ-61	1	PZi4-61	PZi8-61	24	1.0	60	115	page 7	1.0	250	18
PZ-12	2	PZi4-12	PZi8-12	38	1.6	100	60	page 7	1.0	250	18
PZD-:	32	PZi4-32	PZi8-32	137	5.7	360	45	page 7	1.5	500	30
PZD-	52	PZi4-52	PZi8-52	204	8.5	540	30	page 7	1.5	500	30

NOTES: 1 PZi4 models include 2-meter cable with 4-pin connector on one end; PZi8 models include separate 2-meter signal cables, one each with 4-pin and 8-pin connector end. ² High Pressure models are available as PZ-31, PZi4-31 or PZi8-31 only; available in FEC or SS only. Refer to Material Code Chart on page 4.

TYPE & SIZE SELECTION CHART: PZiG

Available Only in Programmable Models

(See page 8 for Direct Connection of pH and Residual Chlorine Control Instruments)

PROGRAMMABLE MODEL	M/ GPD	AX. CAPA	CITY ML/MIN.	MAX. PRESSURE PSI	DRAWING/ CURVE	STROKE LENGTH (MM)	MAX. POWER (VA)	AVG. POWER (WATTS)
PZiG-300	130	5.4	340	140	page 7	1.5	750	100
PZiG-500	200	8.4	530	100	page 7	1.5	750	100
PZiG-700	288	12.0	760	60	page 7	1.5	750	100
PZiG-1000	380	15.8	1000	45	page 7	1.5	750	100
PZiG-1300	495	20.6	1300	30	page 7	1.5	750	100

Variety of Liquid End Materials

Standard Model: PVC ▶ (VFC/VEC)

- · General chemical applications
- Valve seats and O-rings are available in Viton® or EPDM
- Built-in relief valve



Universal Model: PVDF > (FFC/FEC/FTC)

- For most chemicals and highly corrosive chemicals
- Valve seats and O-rings are available in Viton®, EPDM or Teflon®
- Built-in relief valve



Stainless Steel Model (55) ▼

• For solvents and other chemicals where plastics



Chlorine Model: ◆ Acrylic (CL)

- Transparent pump head allows visual check of valves
- Reduced head volume and upward sloping ports vent gas away from diaphragm
- Improved pump efficiency for countering gas lock
- Built-in relief valve



Chlorine Model: ◆ Acrylic (ARPZ)

- CL model with automatic air release mechanism
- Derate capacity 5% for air release models

To specify pump, choose the type from the chart on page 2 plus the size from the chart on page 3 (ex: PZi4-31). Then add the appropriate material code from the chart below (ex: PZi4-31-FFC). Complete instructions regarding Model Number Selection are on page 2.

Adapters for NPT connection are available

PZiG with

MATERIALS CHART: PZ / PZD / PZi4 / PZi8

MATERIAL CODE	PUMP HEAD	TUBE JOINT	VALVE SEAT	CHECK BALL	DIAPHRAGM	FOOT VALVE & STRAINER	BACKPRESSURE INJECTION ASSEMBLY	SUCTION CONNECTION – TUBE*	DISCHARGE CONNECTION – TUBE*
VFC	PVC	PVC	Viton	Ceramic	PTFE	PVC	PVC	3/8" Tube – Soft PVC²	3/8" Tube – PE ²
VEC	PVC	PVC	EPDM	Ceramic	PTFE	PVC	PVC	3/8" Tube – Soft PVC²	3/8" Tube – PE ²
CL ¹	Acrylic	PVC	Viton	Ceramic	PTFE	PVC	PVC	3/8" Tube – Soft PVC	3/8" Tube – PE
ARPZ 1	Acrylic	PVC	Viton	Ceramic	PTFE	PVC	PVC	3/8" Tube – Soft PVC	3/8" Tube – PE
SS	316SS	N/A	EPDM	316SS	PTFE	Not Included	Not Included	3/8" MNPT – None	3/8" MNPT – None
FFC ¹	PVDF	PP	Viton	Ceramic	PTFE	PVDF – Molded	PVDF – Molded	3/8" Tube – PE ³	3/8" Tube – PE
FEC ¹	PVDF	PP 4	EPDM	Ceramic	PTFE	PVDF – Molded	PVDF – Molded	3/8" Tube – PE ³	3/8" Tube – PE 4
FTC	PVDF	PVDF	Teflon	Ceramic	PTFE	PVDF – Molded	PVDF – Machined	3/8" Tube – FEP ^{2,3}	3/8" Tube – FEP ²

¹ Not available in -32 or -52 size codes.

² PZ-32 and PZ-52 Models – 18x12 mm Soft PVC Tube for VFC and VEC Models; 15x12 mm PTFE Tube for FTC Models

³ Ceramic Weight Included 4 220 psi Model PZ/PZi-31-FEC - 1/4" Tube Joint and Tube - PP *NOTE: 3/8" Tube is 3/8" OD x 1/4" ID; Adapters for NPT connection are available

MATERIALS CHART: PZiG

MATERIAL CODE	PUMP HEAD	VALVE SEAT	CHECK BALL	DIA- PHRAGM	STRAINER	BACKPRESSURE INJECTION ASSEMBLY	SUCTION/ DISCHARGE CONNECTION
VTCE	PVC	EPDM	Ceramic	Teflon	Not Included	Not Included	1/2" FNPT
VTCF	PVC	Viton	Ceramic	Teflon	Not Included	Not Included	1/2 " FNPT
VTCF-V 1	PVC	Viton	Ceramic	Teflon	Not Included	Not Included	3/4" FNPT
FTCT	PVDF	Teflon	Ceramic	Teflon	Not Included	Not Included	1/2 " FNPT
FTCT-A ²	PVDF	Teflon	Ceramic	Teflon	PVDF	PVDF	15 x 12 PTFE ²

¹ High Viscosity Model rated 1000 to 4000 cps. Consult factory for applications greater than 2000 cps.



² Only these models include Foot Valve Strainer, Antisiphon Check Valve, plus 15x12 mm Teflon Suction and Discharge Tubing. Tubing rated 75 psi max.

INCLUDED WITH EACH PUMP:

Foot Valve Strainer*

Back Pressure/Check Valve Injector with Quill*

Suction, Discharge and Air Release Tubing*



Foot Valve **Back Pressure** Strainer Injector

Power Cord with 3-Prong Plug

Signal Cable with Multi-Pin Connectors (one with PZi4 & two with PZi8 & PZiG models)

*except some PZiG models (see page 4)

MATERIAL SELECTION CHART

PUMPING LIQUID (in alphabetical order)	CONCENTRATION	RECOMMENDED TYPE
Acetic acid	50%	VFC/FFC
Acetic acid	concentrated 24°C	FTC
Aluminum sulfate	_	VEC
Amine*	_	SS
Aqueous ammonia	_	VEC
Calcium/Sodium hypochlorite	12%	CL/AR
Caustic soda	_	VEC
Ferric/Ferrous chloride	_	VFC
Ferric/Ferrous sulfate	_	VFC
Hydrochloric acid	10% to conc.	VFC
Hydrogen peroxide	30%	VFC
Nitric acid	10%	VFC
Nitric acid	30% to conc.	FTC
Phosphoric acid	10% to conc.	FTC
Poly-aluminum chloride (PAC)	_	VEC
Potassium permanganate	_	VEC
Sulfuric acid	to 40%	VFC/FFC
Sulfuric acid	concentrated	FTC

^{*}Boiler compounds with small amounts of Amine - FEC

CAUTION – ALL MODELS

• Ambient temperature: 32 to 104°F (0 to 40°C) Pumped liquids:

Temperature: 32 to 104°F (0 to 40°C), Viscosity: 100 CPS max. except as noted

- This pump is designed for outdoor use. Avoid installing pump in a location where service life could be shortened (i.e., where it is exposed to direct sunlight or driving rain).
- This pump cannot pump liquids containing a slurry.
- A relief valve should be installed on the discharge side, if the pump does not have a built-in relief valve and the discharge piping has a shutoff valve.

Feed Verification

Model FC-1 FLOW CHECKER

The Model FC-1 Flow Checker output provides vital information for water treatment programs requiring feed verification to manage chemistry and monitor drum inventory.

- The flow checker mounts directly to the discharge of PZ and PZi metering pumps.
- The flow checker is an oval gear flow meter which measures the pump output and transmits one pulse for each 1 ml of flow.
- Flow checker output can be connected to Model PZi8 Pumps for instantaneous indication of pump output displayed on the pump LCD.
- Connect the flow checker output to your controller or PLC (external power supply required if not used with PZi8 type pump).

DIMENSIONS V

2-3/8" (60)

LED: RED LED: GREEN

(shown with

PZi8 type

(amua

inches (mm) 3-3/8" (85)

FLOW CHECKER SELECTION CHART

MODEL NO.	MATERIAL	USE w/ PUMP MODEL†
FC-1P-P-N1	Ryton*	PZ or PZi-31
FC-1N-P-N1	Noryl**	PZ or PZi-31
FC-1P-P-N2	Ryton*	PZ or PZi-61 or -12
FC-1N-P-N2	Noryl**	PZ or PZi-61 or -12

[†] Not available for larger models.

LIQUID-END MATERIALS

PART NAME	MODEL FC-1P-	MODEL FC-1N-□
Body	Ryton*	Noryl**
Ball Check	Ceramic	Ceramic
Ball Guide/Joint	PVC	PVC
Valve Seat/O-Ring	EPDM	Fluororubber

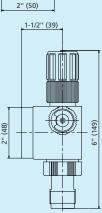
- * Ryton: PPS Polyphenylene-sulfide (for general chemicals)
- ** Noryl: PPO—Polyphenylene-oxide (for sodium hypochlorite)

SPECIFICATIONS

Pulse constant	1mL/pulse
Accuracy	±3% (Depends on nature of chemical, flow rate, temperature and back pressure.)
Normal operating pressure	140 psi (10 Kg/cm²)
Momentary maximum operating pressure	200 psi (14 Kg/cm²)
Temperature	32-104°F (0-40°C) (Liquid should not freeze.)
Liquid viscosity	1 to 50 cps
Output	Open collector (Collector capacity: 30V, 30mA)
Power requirement	4.5 to 25VDC (20mA Max.)*

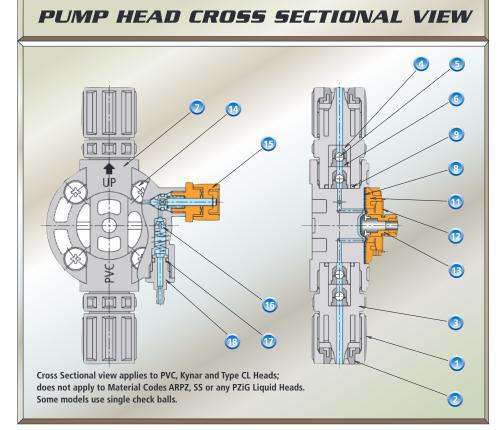
Green LED lights for each pulse output. Red LED on when the power is ON.

- NOTES: 1. Use flow checker only for clear liquids.
 - 2. Pressure loss is 0.5 Kg/cm² (at maximum flow rate using water).
 - * + 5V Power Supply provided on board PZi8 Models.



Advantages

- Digital settings from 15 to 300 pulses per minute on PZ models and from 1 to 300 pulses per minute on PZi and PZD models
- High stroking speed ensures more uniform distribution of chemical at low feed rates
- Pump delivery is constant at any voltage from 94 to 264 VAC single phase and is not affected by voltage fluctuations
- Outdoor use—pump is water and UV resistant. Equivalent to IEC specification IP65.
 Dust proof, wash down duty (with proper electrical connection).



Applications

- Injection of chemicals to boilers and cooling towers
- Chlorine sterilization for food plants, small-scale water-supply systems, buildings and swimming pools
- Injection of nutrients and disinfectants in the livestock industry, such as poultry and hog producers, as well as for hydroponic cultivation
- Very low flow rate injection of low viscosity liquids for any application (100 CPS max. except high viscosity models)

- 1 Hose Nut
- Support ring
- Retaining ring
- Protective diaphragm
- Hose joint
- Spacer
- Ball guide
- 1 Truss screw
- Check ball
- Relief valve
- O Valve seat
- O A:
- Pump head
- 6 Air release valve
- O Dianhragn
- ① O-ring
- Oiaphragm
- Air release nozzle
- O-ring

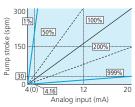
ANALOG SIGNAL INPUT

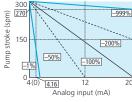
PZi4 / PZi8 / PZiG

DC4(0) to 20mA input

1. Proportional band function

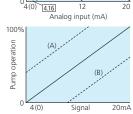
The proportional band can be adjusted within a range of $\pm 1\%$ to $\pm 999\%$. Pump response to increasing input signal is easily reversed from min. 4mA and max. flow at 20mA to max. flow 20mA and min. flow at 4mA. 0mA to 20mA range on PZi8 models.





2. Shift function

Shift can be set within the range ±100% allowing a min. preset flow at 0 (4mA) signal or allowing no flow until the input signal exceeds a preset value.



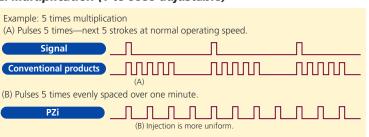
PULSE SIGNAL INPUT

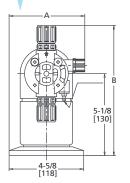
PZi4/PZi8/PZiG

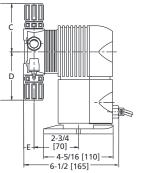
1. Frequency-division (1/1 to 1/9999 adjustable)



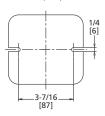
2. Multiplication (1 to 9999 adjustable)



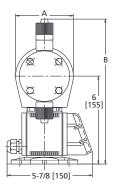


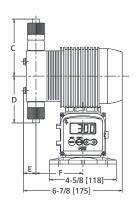


*The mounting slots allow mounting from 3-7/16" (87) to 4-5/16" (110) centers.

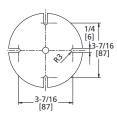


MODELS PZ/PZi-31/61/12										
MATERIAL A B C D E										
VFC/VEC	4¾ (120)	81/4 (206)	3 (76)	3 (76)	11/16 (17)					
FFC/FEC/FTC	4¾ (120)	9 (228)	3% (98)	3% (98)	111/16 (17)					
CL	3¼ (83)	8 (204)	2% (73)	3 (76)	1¼ (32)					
ARPZ	3¼ (83)	8 (204)	2% (73)	3 (76)	21/4 (57)					
SS	3¼ (83)	7% (194)	2½ (64)	2½ (64)	³ / ₄ (19)					

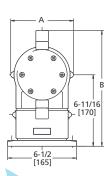


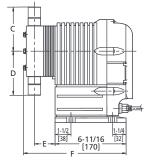


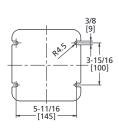
*The mounting slots allow mounting from 3-7/16" (87) to 4-5/16" (110) centers.



MODELS PZD/PZi-32/52									
MATERIAL	Α	В	C	D	E	F			
VFC/VEC	4 (102)	9% (244)	3½ (88)	3½ (88)	1 (25)	3% (86)			
FTC	4 (102)	10% (256)	4 (101)	3¼ (83)	% (22)	3¼ (83)			
SS	4 (102)	9 (227)	3¼ (83)	2% (72)	1 (24)	3½ (89)			





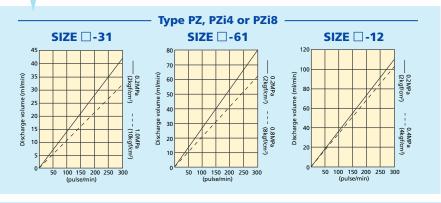


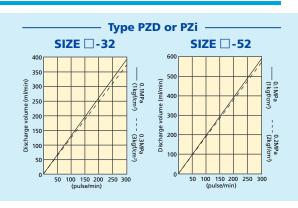
M	ODELS	PZiG-300)/500/7	00/100	0/1300	
MATERIAL	Α	В*	C*	D*	E	F
VTCE & V	TCF					
300/500	5% (150)	10% (270)	4 (100)	4 (100)	2 (50)	9¾ (247)
700	5% (150)	10¼ (260)	3½ (90)	3½ (90)	2 (50)	9¾ (247)
1000/1300	5% (150)	10½ (265)	3¾ (95)	3¾ (95)	21/6 (54)	10 (253)
FTCT						
300/500	5% (150)	11¼ (285)	4½ (115)	3% (97)	2 (50)	9¾ (247)
700	5% (150)	11¼ (285)	4½ (115)	3% (97)	2 (50)	9¾ (247)
1000/1300	5% (150)	11¾ (298)	5 (128)	5 (128)	2% (54)	10 (253)

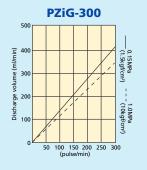
*For high viscosity liquid end type VTCF-V (all sizes): B = 11% (294) C = 4% (124) D = 4% (124)

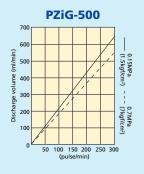
PERFORMANCE CURVES

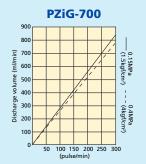
Conditions: Clean water, Room temperature

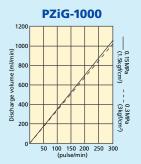


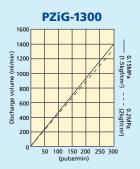












Programmable Models PZi8 & PZiG Control System Examples

YOUR SYSTEM IS ENHANCED BY OUTSTANDING CONTROLLABILITY

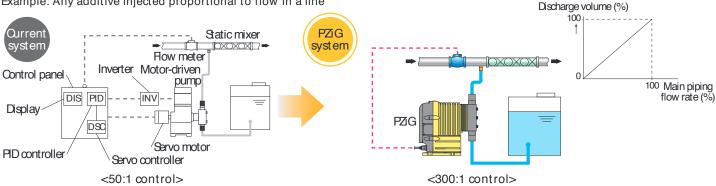
Proportional Flow Rate Control – Models PZi8 & PZiG

Advantage

Flow meter signals are received directly according to the flow rate of the main piping and the discharge volume is automatically controlled. This eliminates the need for control devices, which have been needed up until now, and reduces the cost of devices.

Cost benefits: Digital panel meters, PID controllers and inverters are no longer required.





Alkali injection amount

100 (%)

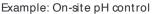
Acid injection amount

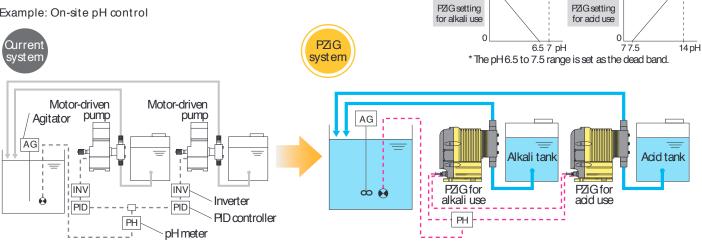
100 (%)

pH Control – Model PZiG only

Advantage

Control signals from the pH meter are received and chemicals are automatically injected according to the preset pH value. This simplifies the configuration of the control devices. Cost benefits: Two PID controllers and two inverters are no longer required.

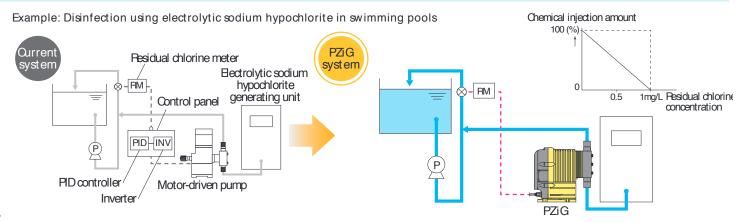




Sterilization – Model PZiG only

Advantage

Automatic control is possible on the pump unit merely by receiving signals directly from the residual chlorine meter and setting the target residual chlorine value. Cost benefits: Control panels (PID controllers and inverters) are no longer required.



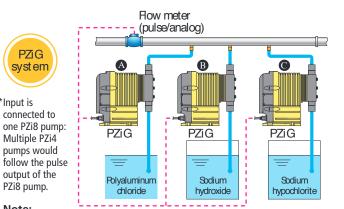
Multi-liquid Proportional Flow Rate Injection - Models PZi8* & PZiG

Advantage

PZiG

syst em

*Input is connected to Multiple PZiGs inject different chemicals according to preset values while calculating the signal from a single flow meter. This eliminates the need for a signal distributor.



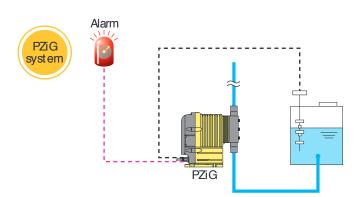
PZi8 pump.

Multiple PZiG pumps take pulse or analog signal directly: A single PZi8 pump would take a pulse or analog signal directly and slave a second or third pump to its output.

2-point Level Switch-based Control – Models PZi8 & PZiG

Advantage

A 2-point level control enables output of an alarm at the liquid level "low limit" and stops pump operation at the "low-low limit."



Batch Injection (counter)* – Models PZi8 & PZiG

Advantage

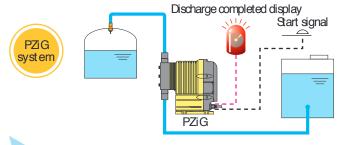
Pump operation starts on command signal. Operation automatically stops and operator is notified of completion when a preset count is reached. Maximum number of pulses 9999x1, x10, x100 or x1000 (555 hours max. run time).*

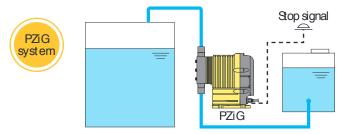
Interval Injection (repeat cycle)* – Models PZi8 & PZiG

Advantage

The pump is repeatedly started and stopped by a preset timed program. ON time and OFF interval can be easily set from 1 to 9999 minutes respectively.*

- *Calibration function assures accuracy greater than ordinary pumps in these applications (see page 3).
- **Pump operation can be interrupted by a remote signal at any time; program resumes when restarted.





CONTROL VARIATIONS – Models PZi8 & PZiG

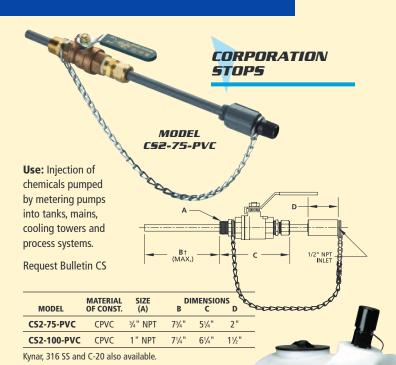
Basic specifications	Adjustment range	Stroke	1~300 spm (1 spm step)	
		Stroke length	20~100%*	
	Number of inputs	Analog input 4~20	1	
		Digital input high speed (1	2	
		Digital input low speed (1	2	
	Other	Power supply output	1	
Run mode	LCD display	[n)	
	Manual operation			
	Automatic operation	Analog mode	Analog signal	4~20 mADC
		Pulse	1/1~1/9999	
		Pulse	1 to 9999 times	
		Count mode	Number of strokes	1~9999 (x1, 10, 100, 1000)
		Interval mode	ON/OFF time	1 to 9999 mins / 1 to 9999 mins

*50~100% for sizes -31/-61/-12

1	
End signal output ²	
arm ³	
1 ³	

- 1. Output in sync with solenoid operation.
- 2. Output when operation for preset count is completed.
- 3. Alarm display, alarm output and pump operation can be selected in response to an alarm condition.

Quality **Accessories** by Neptune



PORTABLE MINI-TANK FEEDERS

Mini-tank system offers portability and economy. Compact 231/2" wide, 36" long, 29" high size fits through doorways, in elevators and allows installation in small areas. Tank removes

from base for ease of transport and handling.

- Total weight: 40 lbs. plus pump
- · Use with electronic or motor driven pumps
- 8" manway standard

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MODEL	DESCRIPTION			
MT-30	30 Gallon System includes polypropylene suction piping with isolation valve and "Y" strainer (pump not included)			
MT-30T	MT-30T 30 Gallon Molded Tank and Base Only			
OPTIONS AND ACCESSORIES				
MT-CC	Calibration Column			
MT-CT	Containment Basin			
MTA	1/20 HP Mixer			

POLYETHYLENE SOLUTION TANKS & AGITATORS

For PZ Series Pumps (Top Mounted)

- Self Supporting
- For Corrosive or Non-Corrosive Solutions
- Molded cover will accept "PZ" Series Pumps and **Neptune Economy Agitators**
- 30 or 50 Gallon Sizes

TANKS

MODEL	SIZE	HEIGHT	DIA. MAX.	WEIGHT
ST-30	30 Gal.	23"	22"	19 lbs.
ST-50	50 Gal.	32½"	22"	20 lbs.

MODEL 5T-50

Neptune

AGITATORS - PVC suction tubing protector pipe included

MODEL	MODEL DESCRIPTION	
AN-316-30	316SS shaft and propeller, fits 30-gallon polyethylene tank; 19" long shaft	14 lbs.
AN-316-50	polyethylene tank; 29" long shart Enoxy-coated shaft and impeller fits 30-	
AN-E-30		
AN-E-50	Epoxy-coated shaft and impeller, fits 50-gallon polyethylene tank; 29" long shaft	14 lbs.

NIMBLE SKID FLEXIBLE PUMP PACKAGES

Nimble Skids offer a complete chemical feed system ready for use with bulk or semi bulk tanks.

Standardized design with a menu of options allows design flexibility and rapid delivery at an affordable cost. Controls and Automation are available.

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Specifications and dimensions for the products in this bulletin are subject to change without notice.

MODEL

MT-30



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