

2014 Price List

ProMinent Fluid Controls Pty Ltd

Green Pages

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We reserve the right to make pricing and technical changes.
This PriceList supersedes all previous price lists.

E. & O. E.

All prices subject to the addition of GST.

Sydney, 1st January 2014

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1.1 Tube, Hose & Fittings

Description	Part No.	Price
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Tube Pack 7 metre, includes: 5m Translucent Polyethylene Dosing Tube and 2m Soft PVC Suction tube.

6mm O.D. x 4mm I.D.	PA01181048
8mm O.D. x 5mm I.D.	PA01281048
12mm O.D. x 9mm I.D.	PA01381048

Tube Pack 7 metre, includes: 5m Black (P.E.) Dosing tube & 2m Soft PVC Suction tube.

6mm O.D. x 4mm I.D.	PA01181049
8mm O.D. x 5mm I.D.	PA01281049
12mm O.D. x 9mm I.D.	PA01381049

Suction Tube, Clear Soft PVC - 25 metre roll

6mm O.D. x 4mm I.D.	A25121801
8mm O.D. x 5mm I.D.	A25221801
12mm O.D. x 9mm I.D.	A25321801

Dosing Tube, Translucent Polyethylene (P.E.) - 25 metre roll

6mm O.D. x 4mm I.D.	A25121800
8mm O.D. x 5mm I.D.	A25221800
12mm O.D. x 9mm I.D.	A25321800

Dosing Tube, Black Polyethylene (P.E.) - 25 metre roll

6mm O.D. x 4mm I.D.	A25151003
8mm O.D. x 5mm I.D.	A25251004
12mm O.D. x 9mm I.D.	A25351005

Suction Tube, Clear Soft PVC - 50 metre roll

6mm O.D. x 4mm I.D.	A01181006
8mm O.D. x 5mm I.D.	A01281006
12mm O.D. x 9mm I.D.	A01381006


Dosing Tube, Translucent Polyethylene (P.E.) - 50 metre roll

6mm O.D. x 4mm I.D.	A01181007
8mm O.D. x 5mm I.D.	A01281007
12mm O.D. x 9mm I.D.	A01381007

Dosing Tube, Black Polyethylene (P.E.) - 50 metre roll

6mm O.D. x 4mm I.D.	A01181008
8mm O.D. x 5mm I.D.	A01281008
12mm O.D. x 9mm I.D.	A01381008

High Pressure Fabric Reinforced PVC Tube

10x4 Tube Fabric reinforced 16 Bar 5m roll	1004533.
10x4 Tube Fabric reinforced 16 Bar 50m roll	1004536.
12x6 Tube Fabric reinforced 16 Bar 5m roll	1004538.
12x6 Tube Fabric reinforced 16 Bar 50m roll	1004541.

Note: When the above "Fabric Reinforced PVC Tube" is used under high pressure the tube may shrink significantly, so allow extra length especially during installation.

Prices Below
are Per Metre

Suction /Dosing tube, Clear PVC/Fabric, Food Grade

16mm I.D.	A01721802
20mm I.D.	A01821802
25mm I.D.	A01921802
32mm I.D.	A01021802

Dosing Tube, PTFE

6mm O.D. x 4mm I.D.	037426.
8mm O.D. x 4mm I.D.	1033166.
8mm O.D. x 5mm I.D.	037427.
12mm O.D. x 9mm I.D.	037428.
19mm O.D. x 16mm I.D.	037430.

Dosing Tube, Stainless Steel

6mm O.D. x 5mm I.D.	015738.
8mm O.D. x 7mm I.D.	015740.
12mm O.D. x 10mm I.D.	015743.

1.2 Tube & Pipe Fittings

	Description	Part No.	Price
 <p>Valve to Tube</p>	Tube & Pipe Fittings		
	3/4" Valve to 12x9 Tube		
	PVC	PA07321337	
 <p>3/4" Valve to 1/2" BSPT Adaptor</p>	PVDF (Cap Nut in PP)	PA07331337	
	3/4" Valve to 16mm Hose Tail		
	PVC	A07621788	
 <p>1" Valve to 16mm Hose Tail</p>	PVDF	1002288	
	SS	A07641788	
	3/4" Valve to 20mm Hose Tail		
 <p>Valve to Solvent Weld</p>	PVC	A07621303	
	PVDF	A07631303	
	SS	A07641303	
 <p>3/4" Valve to 1/2" BSPT Male</p>	3/4" Valve to 1/2" BSPT Male		
	PVC	A07521066	
	PVDF	A07531066	
 <p>Valve to Tube</p>	SS	A07541066	
	Note: PVDF 12x9 fittings fitted with PVC Cap Nuts		
	1" Valve to 12x9 Tube		
 <p>1" Valve to 16mm Hose Tail</p>	PVC	PA07321369	
	PVDF (Cap Nut in PVC)	PA07331369	
	1" Valve to 16mm Hose Tail		
 <p>1" Valve to 20mm Hose Tail</p>	PVC	A07521224	
	PVDF	A07531224	
	1" Valve to 20mm Hose Tail		
 <p>1" Valve to 25mm Hose Tail</p>	PVC	A07521211	
	PP *** Not Stocked ***	A07551211	
	PVDF	740632	
 <p>1" Valve to 3/4" BSPT Male</p>	1" Valve to 25mm Hose Tail		
	PVC	A07621309	
	PVDF	A07631309	
 <p>Valve to Tube</p>	1" Valve to 3/4" BSPT Male		
	PVC	A07521212	
	PVDF	A07531212	
 <p>3/4" Valve to 1/2" BSPT Adaptor</p>	SS	A07541212	
	Note: PVDF 12x9 fittings fitted with PVC Cap Nuts		
	Valve to Solvent Weld		
 <p>1" Valve to 16mm Hose Tail</p>	3/4" to 15mm PVC Pipe	A27022364	
	1" to 20mm PVC Pipe	A27022365	
	1-1/4" to 25mm PVC Pipe	A27022366	
 <p>1" Valve to 25mm Hose Tail</p>	1-1/2" to 25mm PVC Pipe	A27022367	
	PVC - Preferred stocking		
	NOTE: PP, PVDF & SS mostly to order only		
 <p>1" Valve to 3/4" BSPT Male</p>	TUBE & PIPE FITTINGS		
	1-1/4" Valve Adaptor to 16mm Hosetail		
	PVC	A07521213	
 <p>Valve to Tube</p>	PVDF	A07531213	
	1-1/4" Valve Adaptor to 20mm Hosetail		
	PVC	A07521092	
 <p>3/4" Valve to 1/2" BSPT Adaptor</p>	PVDF	A07531092	
	SS	A07541092	
	1-1/4" Valve Adaptor to 25mm Hosetail		
 <p>1" Valve to 16mm Hose Tail</p>	PVC	A07521093	
	PVDF	1006014	
	1-1/4" Valve Adaptor to 1/2" BSPT Male		
 <p>1" Valve to 25mm Hose Tail</p>	PVC	A07521098	
	PVDF	A07531098	
	1-1/4" Valve Adaptor to 3/4" BSPT Male		

NOTE: Sigma 1 has 3/4" & 1" Valves
Sigma 2 has 1" & 1-1/2" Valves
Sigma 3 has 1-1/2" & 2" valves

1.2 Tube & Pipe Fittings

	Description	Part No.	Price
 <p>1-1/4" Valve (Meta 130) to 16mm Hosetail</p>	PVC	A07521069	
	PVDF	A07531069	
	SS	A07541069	
	1-1/4" Valve Adaptor to 1" BSPT Male		
	PVC	A07521070	
	PVDF	A07531070	
	SS	A07541070	
	1-1/2" Valve Adaptor to 25mm Hosetail		
	PVC	A07521095	
	PVDF	A07531095	
 <p>1-1/4" Valve (Meta 130 - 260) to 3/4" BSPT Male</p>	1-1/2" Valve Adaptor to 32mm Hosetail		
	PVC	A07621455	
	PVDF	1005560	
	1-1/2" Valve Adaptor to 1" BSPT Male		
	PVC	A07521094	
	PVDF	A07531094	
	SS	A07541094	
	2" Valve Adaptor (DN32) to 32mm Female Solvent Weld Adaptor		
	PVC only	721-601-109	
	2" Valve Adaptor (DN32) to BSMT Male Adaptor		
	PVC only x 1-1/4"	A07022463	
	PVC only x 1-1/2"	A07022462	
	2-1/4" Valve Adaptor to 38mm Hosetail		
	PVC	A07621425	
	PVDF	A07631425	
	2-1/4" Valve Adaptor to 1-1/4" BSPT Male		
	PVC	A07521799	
	PVDF	A07531799	
	SS	A07541799	
	2-1/4" Valve Adaptor to 48mm Solvent weld		
	PVC	A07021426	
	Adaptors SS DN Female to BSPT Male		
	1-1/4" valve DN to 1" BSPT Male	A07542085	
	1-1/2" valve DN to 1" BSPT Male	A07542086	
	2-1/4" valve DN to 1-1/2" BSPT Male	A07542087	

1.3 BSPM to Hosetail Adaptors



BSPM to HOSETAIL ADAPTORS

Description	Part No.	Price
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BSPM to HOSETAIL ADAPTORS

PP - 1/2" BSPM to 16mm Hosetail - Moulded	A01551096	
PP - 1/2" BSPM to 20mm Hosetail - Moulded	A01551089	
PP - 3/4" BSPM to 20mm Hosetail - Moulded	A01551087	
PP - 1" BSPM to 25mm Hosetail - Moulded	A01551088	
PP - 1-1/4" BSPM to 35mm Hosetail - Moulded	A01551090	
PP - 1-1/2" BSPM to 40mm Hosetail - Moulded	A01551091	

PVC - 1/2" BSPM to 16mm Hosetail	A01521096	
PVC - 3/4" BSPM to 20mm Hosetail	A01521087	
PVC - 1" BSPM to 25mm Hosetail	A01521088	



HEX NIPPLES

HEX NIPPLES

PVC - 1/2" BSPT M/M - Machined	A07521064	
PP - 1/2" BSPT M/M - Moulded	A07551064	
PVC - 3/4" BSPT M/M - Machined	A07521065	
PP - 3/4" BSPT M/M - Moulded	A07551065	

REDUCING BUSH

PVC - 3/4" BSPTM to 1/2" BSPT Female - Moulded	A01521416	
PP - 3/4" BSPTM to 1/2" BSPT Female - Moulded	A01551416	



Tube Joiner 8x5 to 8x5

TUBE FITTINGS

Tube Joiner 6x4 to 6x4		
PVC	PA07121060	
PTFE *** Not Stocked ***	PA07131060	
Tube Joiner 8x5 to 8x5		
PVC	PA07221060	
PTFE *** Not Stocked ***	PA07231060	
Tube Joiner 12x9 to 12x9		
PVC	PA07321060	
PTFE *** Not Stocked ***	PA07331060	
Tube Joiner 6x4 to 8x5		
PVC	PA07321059	
PTFE *** Not Stocked ***	PA07331059	
Tube Joiner 6x4 to 12x9		
PVC	PA07321058	
PTFE *** Not Stocked ***	PA07331058	
Tube Joiner 8x5 to 12x9		
PVC	PA07321057	
PTFE *** Not Stocked ***	PA07331057	

Note: PTFE Hose Adaptors are fitted with PVC Cap Nuts.

MISCELLANEOUS FITTINGS

Connector - both ends G/4 style nipple (M20 x 1.5)

PVC	A07021328	
PTFE*** Not Stocked ***	A07031328	

Tube to Pipe Fittings

Tube Adaptor 6x4 to 1/2" BSPT Male

PVC	PA07121061	
PTFE*** Not Stocked ***	PA07131061	

Tube Adaptor 8x5 to 1/2" BSPT Male

PVC	PA07221061	
PTFE*** Not Stocked ***	PA07231061	

Tube Adaptor 12x9 to 1/2" BSPT Male

PVC	PA07321061	
PTFE*** Not Stocked ***	PA07331061	

Tube Adaptor 12x9 to 3/4" BSPT Male

PVC	PA07321062	
PTFE*** Not Stocked ***	PA07331062	

Tube Adaptor 8x5 to 1/4" BSPT Male

PA07522276



Tube Adaptor 8x5 to BSPT Male

1.4 Tube Adaptors

Description	Part No.	Price
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PVC Tube Adaptor 8x5 to 1/2" Solvent Weld

Tube to Solvent Weld

PVC Tube 6x4 to 1/2" Solvent Weld
 PVC Tube 8x5 to 1/2" Solvent Weld
 PVC Tube 12x9 to 1/2" Solvent Weld
 PVC Tube 16mm Hosetail to 1/2" Solvent Weld
 PVC Tube 20mm Hosetail to 3/4" Solvent Weld
 PVC Tube 20mm Hosetail to 1" Solvent Weld

PA07121184
 PA07221184
 PA07321184
 A07421184
 A
 A



16mm Hose Joiner PP

PP Hose Joiners

16 mm Hose Joiner PP
 20 mm Hose Joiner PP

A01651316
 A01651317



PP Equal Tee Pieces 16mm Hosetail all round

PP Equal Tee Pieces

16 mm Hosetails all round
 20 mm Hosetails all round

A01651318
 A01651319



20x1.5 Female Union to 15mm Solvent Weld

Union Adaptors

20x1.5 Female Union to 15mm Solvent Weld PVC

PA27022382



20x1.5 Female Fixed / Female Union

20x1.5 Female Union to 20x1.5 Female

PA03022627



20x1.5 Female Union / 1/2" BSPT Male

20x1.5 Female Union to 1/2" BSPT Male

PA01722804

Adaptors for Suction / Foot Valves for Vario and Sigma

3/4" valve to 16mm hose
 1" valve to 16mm hose
 1-1/4" valve to 20mm hose

PA 03422617
 PA06022635
 PA06022618

Description	Part No.	Price
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2.1 Chemical Tanks and Accessories

Description

Part No.

Price



**CHEMICAL TANKS - POLYETHYLENE -
ONE PIECE ROTATIONALLY MOULDED MDPE with vented lid.**

******* PLEASE NOTE *******

Prices below are a guide as prices may vary from time to time and state to state.
For accurate prices please consult Sydney office.

Prices include vented lids and poly BSP F socket up to 2" **STRICTLY** **NET**

	Diameter	Wall height	Apex height	Weight
1,000 litre tank	0.95 m	1.48 m	1.68 m	50
1,200 litre tank	0.95 m	1.87 m	2.13 m	60
1,600 litre tank	1.10 m	1.85 m	2.10 m	70
2,000 litre tank	1.20 m	1.79 m	1.98 m	85
2,600 litre tank	1.45 m	1.45 m	1.67 m	90
3,000 litre tank	1.47 m	1.78 m	1.98 m	115
5,000 litre tank	1.84 m	1.97 m	2.17 m	150
9,100 litre tank	2.37 m	2.14 m	2.41 m	275
10,000 litre tank	2.62 m	1.88 m	2.08 m	300
13,600 litre tank	2.86 m	2.26 m	2.64 m	355
22,600 litre tank	3.68 m	2.24 m	2.76 m	525

Note: Prices are for delivery into Sydney, ONLY.

For other sizes and destinations consult Sydney office.

Tanks are manufactured in NSW, QLD, and VIC offering a full range of fittings and attachments to your specifications.

The above tanks are precision rotomoulded to comply with ASMD 1998-93 and manufactured to contain liquids with a specific gravity to 1.5. All tanks are compatible with the storage of a wide range of chemicals, such as sodium hypochlorite, liquid alum, and hydrochloric acid.

BUNDS: The Standard for Storage of Corrosive Liquids specifies the inside lip of the bund at 63.5 degrees down from the top of the tank. Tanks of 250 litres or less are considered minor storage and do not have to comply with the standard.

Also ProMinent Tanks up to 1000 litres & Bunds to 250 It in Yellow Pages Price List.



TANK FITTINGS

Tank drain fitting with 3/4" Plug

809756.

Note: Large tanks can be fitted with outlets by the tank manufacturer.

2.1 Chemical Tanks and Accessories

Description

Part No.

Price

ELECTRIC STIRRER FOR PROMINENT PE TANKS

415 Volt Electric Stirrer

to suit 60 litre tanks

0.09k W 415/3/50 IP 55 Motor S/S shaft, P.P. Impeller

PA17002786

240 Volt Electric Stirrer

to suit 60 litre tanks

0.02 kW 240/1/50 IP55 Motor S/S Shaft, P.P. Impeller

P818576

415 Volt Electric Stirrer

to suit 100, 140, 250 litre tanks

0.25 kW 415/3/50 IP 55 Motor S/S shaft, P.P. Impeller

PA17002408

240 Volt Electric Stirrer

to suit 100, 140 & 250 litre tanks

0.18 kW 240/1/50 IP55 Motor S/S Shaft, P.P. Impeller

PA17002409

415 Volt Electric Stirrer - Light Duty

to suit 500 litre tanks

0.25 kW 415/3/50 IP 55 Motor S/S shaft, P.P. Impeller

PA17002370

240 Volt Electric Stirrer - Light Duty

to suit 500 litre tanks

0.18 kW 240/1/50 IP55 Motor S/S Shaft, P.P. Impeller

PA17002371

SLOW SPEED Stirrers

415 Volt Slow Speed 140 RPM Electric Stirrer (other speeds available)

to suit 250 - 500 litre tanks

0.25 kW 415/3/50 IP 55 Motor, Gearbox, S/S shaft, SS Impeller 200 dia.

PA17002339

240 Volt Slow Speed 140 RPM Electric Stirrer (other speeds available)

to suit 250 - 500 litre tanks

0.18 kW 240/1/50 IP 55 Motor, Gearbox, S/S shaft, SS Impeller 200 dia.

PA17032339

415 Volt Slow Speed 140 RPM Electric Stirrer (other speeds available)

to suit 1000 litre tanks

0.25 kW 415/3/50 IP 55 Motor, Gearbox, S/S shaft, 2 x SS Impeller 200 dia.

PA17012339

240 Volt Slow Speed 140 RPM Electric Stirrer (other speeds available)

to suit 1000 litre tanks

0.0.18 kW 240/1/50 IP 55 Motor, Gearbox, S/S shaft, 2 x SS Impeller 200 dia.

PA17022339

Note: Please advise size of tank when ordering. Blowers are available in lieu of stirrer.



240 Volt Electric Stirrer



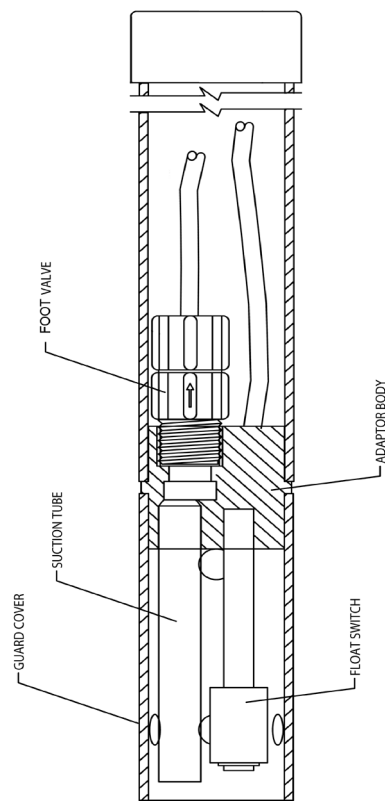
415 Volt Slow Speed Stirrer



Slow Speed Stirrer on 500 litre ProMinent Tank

2.2 Suction Assemblies

Description	Part No.	Price
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SUCTION ASSEMBLIES

CONCEPT

Rigid 1000 mm PVC assembly with foot valve & single stage PP level switch No. 142058. with 5m tube (42 OD PVC Pipe) for CONCEPT pumps.

6 x 4 tube	PA06181829
8 x 5 tube	PA06281830
12 x 9 tube	PA06381831

BETA, GALA, DELTA

Rigid 1000 mm PVC assembly with foot valve with 2 stage PVDF switch No. 1034698. for: BETA, GALA, DELTA with 5m tube.

6 x 4 tube	PA06181832
8 x 5 tube	PA06281833
12 x 9 tube	PA06381834

BETA, GALA, DELTA

same as above but 1200 mm long to suit BULKI BOX

Rigid 1200 mm PVC assembly with foot valve with 2 stage PVDF switch No. 1034698. for: BETA, GALA, DELTA with 5m tube.

6 x 4 tube	PA06481832
8 x 5 tube	PA06581833
12 x 9 tube	PA06681834

Note: Black LDPE tube is supplied as standard.
Soft clear PVC or translucent LDPE is also available.

Ask about Suction Guide Tubes

Description	Part No.	Price
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3.1 Miscellaneous Items

Description	Part No.	Price
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WITHDRAWABLE PVC INJECTION TUBES

With spring loaded injection valve.



6x4 tube connection x 3/4" BSPT	PA07121817
8x5 tube connection x 3/4" BSPT	PA07221817
12x9 tube connection x 3/4" BSPT	PA07321817

Note: The above assemblies include a 3/4" BSP Full Bore Stainless Steel ball valve (SS), and a SS nipple.

Note: Standard length is 75mm of tube past the nipple.

Maximum length can be up to 150mm, longer than this may be subject to damage.

Larger Withdrawable PVC Injection Tubes

No Injection Valve

16mm Hosetail & 1" BSPT Male	PA07621806
20mm Hosetail & 1" BSPT Male	PA07621807
25mm Hosetail & 1" BSPT Male	PA07621808

With injection Valve

16mm Hosetail & 1" BSPT Male	PA07011806
20mm Hosetail & 1" BSPT Male	PA07021807
25mm Hosetail & 1" BSPT Male	PA07031808

Note: The above assemblies include a 1" BSP Full Bore Stainless Steel ball valve (SS), and a SS nipple.

Note: Standard length is 75mm of tube past the nipple.

Maximum length can be up to 150mm, longer than this may be subject to damage.

Note: For extra long injection tubes to suit special applications, refer Sydney Office.

Large non-withdrawable injection

A PVC flanged pipe (advise length required) together with a lined diaphragm valve with flanged ends, suitable for flanged connection to rigid pipe or to hose.

Nipples

1/2"	BSPT Hex Nipple 316 SS	A27541236
3/4"	BSPT Hex Nipple 316 SS	A27841819
1"	BSPT Hex Nipple 316 SS	A27591234

Ball Valves

1/2"	BSPF Full Bore Stainless Steel Ball Valve	A09591256
3/4"	BSPF Full Bore Stainless Steel Ball Valve	A09891818
1"	BSPF Full Bore Stainless Steel Ball Valve	A09591257



WALL MOUNTING BRACKETS - not drilled.

Wall Mounting Bracket PVC suit for Beta4 & Concept pumps	H x W x D 120 x 120 x 120	A07051045
---	------------------------------	-----------

Wall Mounting Bracket PVC suit for Beta 5 & GALA pumps	150 x 150 x 150	A07051046
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Wall Mounting Bracket PVC suit for Delta, Sigma 1, 2 & 3 pumps	210 x 160 x 210	A07051047
---	-----------------	-----------



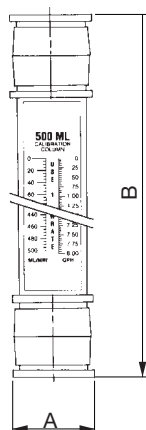
MOUNTING BOARDS - H.D.P.E. 15 mm thick

Size A 500 x 400	A35052176
Size B 600 x 500	A35082644
Size C 750 x 600	A35051307

Note: Add \$ 112 per hour mounting time

Size No.	Typical Use	Assembly Time
Size A	Conductivity D2C + DGMA	3 hours
Size B	D2C + CO ₂ + DGMA	4 hours
Size C	As per B + 2 small pumps	4 hours

3.2 Miscellaneous Items



ProMinent CALIBRATION CYLINDERS

Size	Diameter AB ± 3mm	Height Top	Fittings Bottom	Fittings Part No
100 ml	45	320	½" BSPM	½" BSPM PA07722186
250 ml	51	420	½" BSPM	½" BSPM PA07722187
500 ml	70	410	¾" BSPM	¾" BSPM PA07722188
1000 ml	76.5	660	15 SWF	15 SWF PA07002869
2000 ml	102.5	635	20 SWF	20 SWF PA07002870
5000 ml	200	526	40 SWF	40 SWF PA07002612
10000 ml	200	800	40 SWF	40 SWF PA07002616
20000 ml				PA07003137
30000 ml				PA07003176



PVC PULSATION DAMPNERS - Air to liquid

6x4	Clear Sight Tube	PA16121080
8x5	Clear Sight Tube	PA16221081
12x9	Clear Sight Tube	PA16321082

3/4" BSPT Male 0.5 Litres	120 l/h	PA16821404
1" BSPT Male 1.0 Litres	130 l/h	PA16921405
1" BSPT Male 2.0 Litres	260 l/h	PA16921406
1" BSPT Male 4.0 Litres	530 l/h	PA16921407

PA16121080

Note: See Yellow Pages for Bladder Type

*Note: The 3/4" & 1" require an inline
"T" by others. MAXIMUM 10 Bar pressure.*

Hidracar Pulsation Dampers

Description	Part No.	Price
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Pulsation dampers are used to stabilize the flow and the pressure in circuits with dosing pumps.

A pulsation damper is a vessel with gas inside, normally Nitrogen. In the pulsation dampers there is an element to isolate the gas from the circuit liquid. Its main function is to avoid the gas loss. This piece that separates both fluids is made basically with 2 materials: rubber (Nitrile, EPDM, FPM, Butyl, Silicone, etc.), and a thermoplastic material (usually PTFE).

When rubber is used, the dampener is named bladder or bag type. And if PTFE is used, we talk of membrane or bellows type, according to the separator element shape. The choice of one type or other will depend on the special performances of the circuit such as: the pressure, the temperature and the possible corrosive effect that could be produced by the liquid of the circuit.



U001A01E1-PC 10 Bar EPDM Bladder PVC
U001A01V1-PC 10 Bar Viton Bladder PVC

U002A01E1-PC 10 Bar EPDM Bladder PVC
U002A01V1-PC 10 Bar Viton Bladder PVC

U003A01E1-PC 10 Bar EPDM Bladder PVC
U003A01V1-PC 10 Bar Viton Bladder PVC

U007A01E1-PC 10 Bar EPDM Bladder PVC
U007A01V1-PC 10 Bar Viton Bladder PVC

U015A01E1-PC 10 Bar EPDM Bladder PVC
U015A01V1-PC 10 Bar Viton Bladder PVC

U001E-PC Bladder Insert EPDM Pulsation Damper
U002E-PC Bladder Insert EPDM Pulsation Damper
U003E-PC Bladder Insert EPDM Pulsation Damper
U007E-PC Bladder Insert EPDM Pulsation Damper
U015E-PC Bladder Insert EPDM Pulsation Damper

U001V-PC Bladder Insert Viton Pulsation Damper
U002V-PC Bladder Insert Viton Pulsation Damper
U003V-PC Bladder Insert Viton Pulsation Damper
U007V-PC Bladder Insert Viton Pulsation Damper
U015V-PC Bladder Insert Viton Pulsation Damper

BV010A1TM Filling kit
ADACNEU.5 Filling Adapter

DRB.A/B Damper dismantling tool

Recommended sizes (for more information see next page)

All Beta, Gala		U001 volume 0.075 l
Delta	up to 0730	U001 volume 0.075 l
Delta	0450 & 0280	U002 volume 0.150 l
Sigma 1	up to 35 lph	U001 volume 0.075 l
Sigma 1	42 lph & above	U002 volume 0.150 l
Sigma 2	up to 109 lph	U002 volume 0.150 l
Sigma 2	above 120 lph	U003 volume 0.350 l
Sigma 3	up to 330 lph	U007 volume 0.650 l
Sigma 3	410 lph & above	U015 volume 1.400 l

Note: Dampers are supplied uncharged and have to be filled according to the pressure in the system they will be installed in with either dry nitrogen or air. As a rule of thumb 70% of line pressure.
For more information contact Sydney office.

FOR OTHER PRESSURES, PLASTIC MATERIALS THREAD, CONNECTIONS AND RUBBERS, PLEASE CONSULT

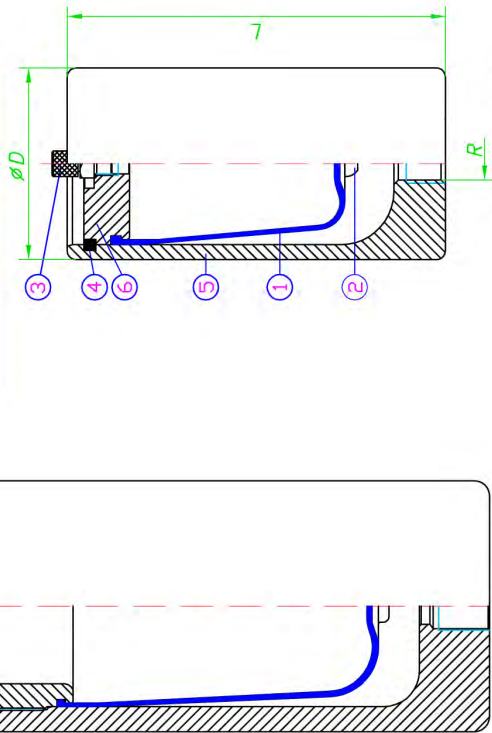
ORDER EX.: U007 A01 E 1 PP

Capacity; 0.65 litre
A01 \equiv 10 bar

Note: $\frac{\text{Maxi.Working Pressure}}{\text{Inflate gas Pressure}} \leq K \text{ (@Constant Temp.)}$

PP=POLYPROPYLENE
(+) PD= PVDF
PC= PVC

PRESSURE
**** DESIGN** 10^{bar-g} ALL SIZES



U150 & U200

U001 TO U100


**** MINIMUM SAFETY FACTOR: 4:1**

INFLATING WITH GAS(N₂),AND MOUNTING POSITION:VERTICAL ,VALVE ③ UP

STANDARD BLADDER RUBBERS N=NBR, E=EPDM, V=FPM

MAXI. WORKING TEMPERATURES	+50, -5°C
1. 1000	1000
2. 1000	1000
3. 1000	1000
4. 1000	1000
5. 1000	1000
6. 1000	1000
7. 1000	1000
8. 1000	1000
9. 1000	1000
10. 1000	1000
11. 1000	1000
12. 1000	1000
13. 1000	1000
14. 1000	1000
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93. 1000	1000
94. 1000	1000
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96. 1000	1000
97. 1000	1000
98. 1000	1000
99. 1000	1000
100. 1000	1000

THE MAXI.WORKING TEMPERATURES CAN BE REDUCED DEPENDING UPON THE LIQUID AND TIME OPERATION

 HIDRACAR SA	Customer
	Title PLASTIC PULSATION DAM (standard units)

PULSATION DAMPER REF.	VOLUME (litres)	D (mm)	L (mm)	R (BSP)	WEIGHT (Kg)			K VALUE
					PC & PD	PP		
U001	0.07	60	98	3/8"	0,35	0,25	2,5	
U002	0.15	80	135	1/2"	0,7	0.5		
U003	0.35	90	170	3/4"	1,2	0,8	3	
U007	0.65	100	230		1,8	1,2	3,5	
U010	0.95	130	245	1"	3	2	3	
U015	1.40		295		3,5	2,4	3,5	
U030	2.60	160	325		5			
U040	3.70		422		5.8	4	5	
U060	5.60	198	1 1/2"	13	9			
U100	9.50	250		500	20,4	14	4	
U150	15		672	2"	23,3	17	2,5	
U200	20	880			27,7	21	3	

TOLERANCES:
EXTERNAL DIMENSIONS; $\pm 2\%$
VOLUME; $\pm 1.5\%$ WEIGHT; $\pm 3.5\%$

6	COVER	1	(+)PP, PD or PC
5	BODY	1	(+)PP, PD or PC
4	RETAINING RING	1	(+)PP, PD or PC
3	INFLATING (AIR OR N2) VALVE	1	AISI 316 1/4" BSP
2	INSERT (BUTTON)	1	(+)PP, PD or PC
1	BLADDER	1	NBR, EPDM, & FPM
N°	DENOMINATION	QT.	MATERIALS
Customer Ref.	Replaced Drg.No AV.PL.BP.IN.DOC.Rev08	Drawn	Approved
		E.Ponsa	M.Carcaré
PERS	Drg.No AV.PL.BP.IN.DOC.	Rev.	Date
		09	JUN-12

3.3 Miscellaneous Items

Description	Part No.	Price
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AC Variable Speed Drives

BONFIGLIOLI Vectron SYNTHESIS

Single phase in / three phase out inverter

The simple use, wide range of controls, integrated EMC filter, IP65 protection level and the limited size make the SYN10 a sound response to the broadest needs for electronic speed variation, where basic performance and contained costs are matched with robust construction and great reliability. Noise suppressed to CE standards

Main Standard Hardware features

Integrated braking module (SYN10 S 220/07/09 - SYN10 T 400)

DC link connection (SYN10 S 220/07/09 - SYN10 T 400)

Inverter temperature monitoring

1 Analog Input (V or I selectable)

4 Digital Input (programmable multifunction)

1 Analog Output (voltage linear)

1 Relay output (programmable multifunction)

Keypad

Integrated standard

Main Functions

I2t Motor temperature monitoring

DC braking injection

Selectable Volt on Hz characteristic

JOG frequency

Selectable Auto-restart

Selectable stop method

Automatic alarm reset

Alarm history

Momentary power loss prevention

Stall prevention

Output Short-Circuit protection

Grounding fault protection

Heat sink overheat

These VFD's are NET PRICES

Drive	Part No	Capacity
IP20		
SYN10	SYN10 S 220 01 AF	0.20 kw
SYN10	SYN10 S 220 03 AF	0.40 kw
SYN10	SYN10 S 220 05 AF	0.75 kw
IP65		
SYN10	SYN10 S 220 01 AFIP65	0.20 kw
SYN10	SYN10 S 220 03 AFIP65	0.40 kw
SYN10	SYN10 S 220 05 AFIP65	0.75 kw



BONFIGLIOLI Active Series VF Drives

Single phase in / three phase out inverter

IP20 EMC Filter

Integrated up to 9.2 kW (EN 61800-3)

Main Standard Hardware features

Integrated dynamic braking module

DC link connection

Standard encoder interface

Motor temperature monitoring

Plug-in power terminals (up to 3kW)

Plug-in and programmable control terminals

6 digital input, 1 multifunction input

1 digital Output, 1 multifunction Output

1 relay output (changeover contact)

Optional Expansion Modules

Expansion of analog, digital inputs and outputs, additional encoder or resolver input, repetition frequency output, System bus (CANopen)

Optional Communication Modules

RS232, RS485, Profibus-DP, CANopen, LONIP20

Main Software Features

Programmable reference value channel, Programmable start and stop characteristics, Motor potentiometer, Programmable S curve, 4 data sets, Auto start-up and commissioning, Auto reset after failure, Auto start after power failure, PL controller, Programmable logic and timer functions, volume flow control, Bump-Less torque/speed changeover, Master / Slave function with electronic gear, Enhanced positioning function, Mechanical brake control free off friction, Index and stability control intelligent current limits, Power failure regulation, Comprehensive monitoring and protection capabilities, High speed control, 3 different brake Management Functions.

0.55 kw

0.75 kw

3.6 Metering Pump Auto Change Over Controller

Description

Part No.

Price



Pump Automatic Change Over Controller

For Metering pumps fitted with chemical flow switches and relay: i.e.- Gala or Sigma.

The controller monitors for loss of chemical flow and actuates change from Pump One to Pump Two. Redirects the 4-20 mA signal when used with Gala or Sigma pumps.

Features :

- Pump sequence switch (Select pump A to B or B to A)
- Fault alarm
- By-Pass switch.

N.B. Add price of chemical flow monitors and relays to selected pump price.

CTP-CO



ProMinent Pump Automatic Change Over Controller

The ProMinent Fluid Controls Automatic Change Over unit allows 2 ProMinent® Dosing pumps to operate in a duty/stand by arrangement. Flow detectors on the outlet of each pump provide fault detection. The switch over unit connects to each pump using ProMinent® standard control cable connections and receives an external 4-20mA control signal.

Normal Operation

During normal operation, both pump selector switches are placed in the AUTO position and either PUMP 1 or Pump 2 is selected on the duty selector. The selected duty pump will then operate until either a fault develops or the position of the selector switches changes.

Fault Operation

If a fault is detected in the operation of the duty pump, the operation will switch to the standby pump. The fault light on the display panel will illuminate and the retransmit fault signal will close.

To Clear a Fault

After rectifying the fault, the ALARM RESET button is pressed and the switch over unit will revert operation to the duty pump.

Pump removal for service

To remove a pump for service, first switch the required pump selector switch to OUT of SERVICE before removing the pump. When returning the pump to service, reconnect the pump then switch the duty selector to the AUTO position. Clear any fault indication on the pump and press the ALARM RESET switch on the switch over panel.

PA10002637



ProMinent Chloramination Dosing System Pump Automatic Change Over

For automatic control of chloramination. Has all the functions of PA1002637 above, however this is a 2 x 2 system system which controls 2 Chlorine pumps and 2 Amonia pumps. If both chlorine pumps fail then Amonia pumps are shut down.

PA10002692

3.7 ProMinent® Beta® Liquid Polymer Blending System

ProMinent®

Description	Part No.	Price
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ProMinent® Beta® PROMIX-LB1000 Liquid Polymer Blending System

Australian designed and manufactured. The Liquid Polymer Blending System is a liquid polyelectrolyte preparation system for continuous production of a consistent quality polymer solution.

The polyelectrolyte is prepared by the injection of liquid polymer into a mixing chamber by the ProMinent® Beta metering pump. Feed water is supplied to the mixing chamber by a flow controlled centrifugal pump. The metering pump is adjustable to achieve the required polymer dilution.

Self Contained

The unit is mounted on a polyethylene stand designed for easy installation and maintenance. Site installation requires only the connection of process water, liquid poly and a standard 3-pin 240-volt power outlet.

Wetting Assembly

The heart of the Liquid Polymer Blending System is the Australian designed & built mixing chamber incorporating a venturi which ensures the creation of long chain molecules and no unmixed polymer solution.

Flushing

After polymer make up is stopped a timer allows for the mixing chamber to be flushed with water.

System Capacity

PROMIX-LB1000-1008	1000 l/h flow @ 0.40% solution
PROMIX-LB1000-0713	1000 l/h flow @ 0.70% solution
PROMIX-LB1000-0420	1000 l/h flow @ 1.00% solution

Note: solution % will depend on type of poly used.

SPECIFICATION

Each system includes:

- 1 x Polyethylene Stand
- 1 x Water Transfer Pump
- 1 x ProMinent Beta Metering Pump
- 1 x Mixing Chamber
- 1 x Blending Pipe Work
- 1 x Control Panel



Liquid_polyrig_Beta

PROMIX-LB1000-1008
PROMIX-LB1000-0713
PROMIX-LB1000-0420

ProMinent® 3.8 ProMinent® spectra®^{3.8} Liquid Polymer Blending System

Revised: 1st January 2014

Description

Part No.

Price

ProMinent® Spectra® PROMIX-LS2000 Liquid Polymer Blending System

Australian designed and manufactured. The Liquid Polymer Blending System is a liquid polyelectrolyte preparation system for continuous production of a consistent quality polymer solution.

The polyelectrolyte is prepared by the injection of liquid polymer into a mixing chamber by the ProMinent® Spectra metering pump. Feed water is supplied to the mixing chamber by a flow controlled centrifugal pump. The metering pump is adjustable to achieve the required polymer dilution.

Self Contained

The unit is mounted on a polyethylene stand designed for easy installation and maintenance. Site installation requires only the connection of process water, liquid poly and a standard 3-pin 240-volt power outlet.

Wetting Assembly

The heart of the Liquid Polymer Blending System is the Australian designed & built mixing chamber incorporating a venturi which ensures the creation of long chain molecules and no unmixed polymer solution.

Flushing

After polymer make up is stopped a timer allows for the mixing chamber to be flushed with water.

System Capacity

Up to 2,000 l/h flow of a 1% solution. The Spectra progressive cavity pump is able to handle highly viscous polymers.



Liquid_polyrig_spectra

SPECIFICATION

Each system includes:

- 1 x Polyethylene Stand
- 1 x Water Transfer Pump
- 1 x ProMinent Spectra Metering Pump
- 1 x Mixing Chamber
- 1 x Blending Pipe Work
- 1 x Control Panel

PROMIX-LS2000

Other capacities available on request.

Also available Nalco type with Torture Path mixing ...
check with Sydney office for pricing

Description	Part No.	Price
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Custom made packages are available on request

Please consult Sydney office.



Description

Part No.

Price



4.1 pH & Redox Pool Probes

Description	Part No.	Price
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SP100-4330-DH

PROBE **pH** 0-12 pH 0 to 80°C HT3 glass Polymer Body
SN6 connector and PG13.5 standard mounting

SP100-4330-DH

Specifications:

- pH range: 0-13 pH
- Temperature range: 0° to 80° C
- Glass Membrane Type: HT-3, Low sodium ion error
- Reference: Silver / Silver Chloride (Ag/AgCl)
- Reference Junction: Precision low porosity ceramic
- Isopotential Point: pH 7
- Output per pH @ 25° C: Approx 59 millivolts
- Maximum Pressure: 4 bar
- Wetted Materials: Glass, Ceramic, Epoxy, Silicone
- Diameter: 12mm
- Length: 120mm

Applications:

- Pool Water
- Clean Water applications

Suitable Housings: PA02032258, PA03022383, DGMA

NOTE: Cable not included - Please add cable



SP100-4PB0-DH

PROBE **RH** 0-1000mV 0 to 80°C HT3 glass Polymer Body
SN6 connector and PG13.5 standard mounting

SP100-4PB0-DH

Specifications:

- Range: 0-1000mV
- Temperature range: 0° to 80° C
- Measurement half cell: Platinum Band
- Reference: Silver / Silver Chloride (Ag/AgCl)
- Reference Junction: Precision low porosity ceramic
- Maximum Pressure: 4 bar
- Wetted Materials: Glass, Ceramic, Epoxy, Silicone
- Diameter: 12mm
- Length: 120mm

Applications:

- Pool Water
- Clean Water applications

Suitable Housings: PA02032258, PA03022383, DGMA

NOTE: Cable not included - Please add cable

4.2 pH & Redox Industrial Probes

Description

Part No.

Price



SP200-2330-DH

PROBE **pH** 0-12 pH -5 to 110°C HT3 glass Glass Body
SN6 connector and PG13.5 standard mounting

SP200-2330-DH

Specifications:

- pH range: 0-13 pH
- Temperature range: -5° to 110° C
- Glass Membrane Type: HT-3, Low sodium ion error
- Reference: Silver / Silver Chloride (Ag/AgCl)
- Reference Junction: Precision low porosity ceramic
- Isopotential Point: pH 7
- Output per pH @ 25° C: Approx 59 millivolts
- Maximum Pressure: 10 bar
- Wetted Materials: Glass, Ceramic
- Diameter: 12mm
- Length: 120mm

Applications:

- Water and Wastewater
- Industrial Trade Waste
- Cooling Towers

Suitable Housings: PA02032258, PA03022383, DGMA, PA02032255, PA02032260



SP200-2430-DH

PROBE **pH** 11+pH -5 to 110°C HT4 glass Glass Body
SN6 connector and PG13.5 standard mounting
Description

SP200-2430-DH

Specifications:

- pH range: 0-14 pH
- Temperature range: -5° to 110° C
- Glass Membrane Type: HT-4, Low sodium ion error
- Reference: Silver / Silver Chloride (Ag/AgCl)
- Reference Junction: Precision low porosity ceramic
- Isopotential Point: pH 7
- Output per pH @ 25° C: Approx 59 millivolts
- Maximum Pressure: 10 bar
- Wetted Materials: Glass, Ceramic
- Diameter: 12mm
- Length: 120mm

Applications:

- Industrial Trade Waste
- Cooling Towers
- High pH Applications

Suitable Housings: PA02032258, PA03022383, DGMA, PA02032255, PA02032260



SP200-2PB0-DH

PROBE **RH** 0-1000mV -5 to 110°C HT3 glass Glass Body
SN6 connector and PG13.5 standard mounting

SP200-2PB0-DH

Specifications:

- ORP range: 0±1000 mV
- Temperature range: -5° to 110° C
- Measurement half cell: Platinum Band
- Reference: Silver / Silver Chloride (Ag/AgCl)
- Reference Junction: Precision low porosity ceramic
- Maximum Pressure: 10 bar
- Wetted Materials: Glass, Ceramic
- Diameter: 12mm
- Length: 120mm
- Thread: PG13.5
- Connection: SN6

Applications:

- Water and Wastewater
- Industrial Trade Waste
- Cooling Towers

Suitable Housings: PA02032258, PA03022383, DGMA, PA02032255, PA02032260

NOTE: Cable not included - Please add cable

4.3 pH & Redox Industrial Probes

Description	Part No.	Price
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PROBE pH 0-13 pH -5 to 100°C HT3 glass Glass Body
Pinwick, Double Junction, SS Flared Cap, 10.0 m Co-axial Cable
Pin Lug Connections.

A41021851

Specifications:

- pH range: 0-13 pH
- Temperature range: -5° to 100° C
- Glass Membrane Type: HT-3, Low sodium ion error
- Reference: Silver / Silver Chloride (Ag/AgCl)
- Reference Junction: Precision low porosity ceramic
- Isopotential Point: pH 7
- Output per pH @ 25° C: Approx 59 millivolts
- Maximum Pressure: 10 bar
- Wetted Materials: Glass, Ceramic
- Diameter: 12mm
- Length: 77mm

Applications:

- Water and Wastewater
- Industrial Trade Waste
- Cooling Towers

Suitable Housings: PA02031390, PA03021391, DGMA, PA02031880



PROBE rH Peripheral Probe 3.5mm Platinum Band.
0-100°C HT3 glass Glass Body, Pinwick, Double Junction,
SS Flared Cap, 10.0 m Co-axial Cable, Pin Lug Connections.

A42022002

Specifications:

- ORP range: 0±1000 mV
- Temperature range: -5° to 100° C
- Measurement half cell: Platinum Band
- Reference: Silver / Silver Chloride (Ag/AgCl)
- Reference Junction: Precision low porosity ceramic
- Maximum Pressure: 10 bar
- Wetted Materials: Glass, Ceramic
- Diameter: 12mm
- Length: 77mm

Applications:

- Water and Wastewater
- Industrial Trade Waste
- Cooling Towers

Suitable Housings: PA02031390, PA03021391, DGMA, PA02031880

Industrial Sensors for in-line or submersible applications

PROBE pH
PROBE pH with PT100
PROBE rH ORP

S400-RT330-A33FF
S400-RT33D-E33FF
S400-RTPB0-A33FF



These high quality sensors are constructed of corrosion-resistant wetted materials including Ryton®, Teflon®, ceramic, glass, platinum, 10.0 m Co-axial Cable, Pin Lug Connections. Coaxial Porous Teflon® Reference Junction. The large annular junction resists fouling. Additionally, the sealed, double-junction reference electrode is highly resistant to poisoning.

Specifications:

- pH range: 0-14 pH
- ORP range: 0±1000 mV
- Temperature range: 0° to 105° C
- Reference: Silver / Silver Chloride (Ag/AgCl)
- Maximum Pressure: 10 bar @ 100° C
- Wetted Materials pH: Ryton, PTFE or ceramic & glass
- Wetted Materials ORP: Ryton, PTFE or ceramic & platinum
- Body Diameter: 29.2 mm
- Length: 150 mm
- Width across flats: 25.4 mm
- Thread: 3/4" NPT - top & bottom

Applications:

- Water and Wastewater
- Industrial Trade Waste
- Cooling Towers

Pipe Adaptor Bush ... 3/4" Female NPT to 25mm Male Solvent Weld **A27022797**
Additional heavy duty PVC protection cap for S400 series **PA03022896**
For **SUBMERSIBLE** applications See Page 4.4 for **PA02032252**

4.7 DYNAPROBE™ pH & ORP Sensors & probe holders

Description

Part No.

Price

Description:

The ST851 is a rugged, sealed sensor assembly designed for in-line or submersion applications. The patented solid state reference cell features the unique IonTrap™ design for extended service life in the most severe applications. The body is molded from chemically resistant Ryton (PPS) and the reference junction is either porous Teflon or wood. Built-in temperature compensators are available. Optional sensor guard locks onto the front of the sensor and protects the sensor tip from impact. Sensor also available in ORP (Redox) version.

Specifications:

pH Range 0 - 14 pH
 ORP Range ± 5000 mV
 Temp Range 0-120°C
 Max Press./Temp 50 psig at 120°C
 Reference Ag-AgCl
 Wetted materials Ryton, Teflon or Wood, Glass, Viton O-Rings

Options

pH DynaProbe™ with Rugged Dome pH Bulb.

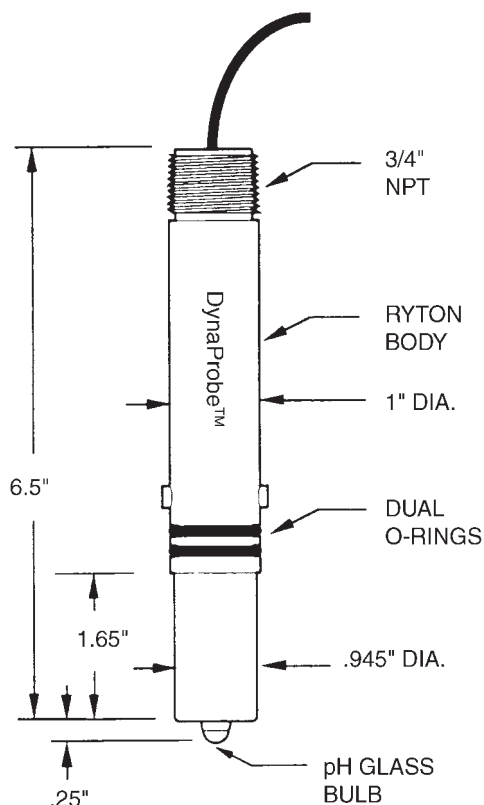
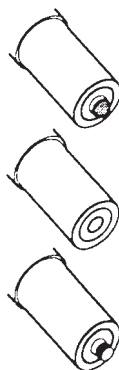
Choice of either Teflon or Wood Coaxial Liquid Junction
 Designed to withstand the toughest industrial applications for best overall performance.

pH DynaProbe™ with Flat pH Bulb.

Choice of Teflon Coaxial Liquid Junction only.
 Designed for obstructionless contact with the sample stream for self cleaning service.

ORP DynaProbe™ with Platinum Band.

Choice of either Teflon or Wood Coaxial Liquid Junction
 Designed for measuring the Oxidation- Reduction Potential of the sample.



pH DynaProbe ST851-T330-A33TE Twist lock Ryton body HT3 dome bulb and Teflon Junction, c/w 10m co-axial cable and pin lugs.

A41022120

rH DynaProbe ST851-RPB0-A33TE Twist lock Ryton body platinum band HT3 dome bulb and Teflon Junction, c/w 10m co-axial cable and pin lugs.

A42022136

Note: Alternate higher pressure and temperature sensors available.

Probe Holders for DynaProbe™ and S400

Top



For **SUBMERSIBLE** applications, Flexible pipe assembly with J-Box has union connection to top of DYNAPROBE and S400 and protective cover, 1.8m approx. NOTE: DYNAPROBE or S400 not included, must be ordered separately.

PA02032252

Top



For **SUBMERSIBLE or IN-LINE** applications, Flexible pipe assembly with J-Box has union connection to top of DYNAPROBE and TWIST-LOCK protective cover, 1.8m approx.

PA02032253

NOTE: DYNAPROBE not included, must be ordered separately.



PVC Twist-Lock Probe Adaptor for either submersible or 3/4" In-Line applications, with 1/4" plug for jet wash connections. To suit Twist Lock DYNAPROBES.

A03821496



CHEMICAL JET WASH applications add:- Special Jet Valve assy, 6x4 to 1/4" BSP. suitable for submersible or if holder mounted in line, flow must be stopped.

A914559.0

ADD Concept CNPA1002PPE200C0100 Pump or other set at 180SPM
 - see 'Yellow Pages' or BETA4

4.5 Electrode Holders

Description	Part No.	Price
-------------	----------	-------

Electrode Holders - Submersible, Direct Pipe mounting and Withdrawable

Industrial Submersible Holders

Heavy duty electrode gland assy in PVC 1.8m approx **PA03021390**
Complete with 2.0m flexible submersible connection and J-Box
for pH / Redox probes A41021850, A41021851 & A42022002

NOTE: For pH our preferred option is A41021851 with 10m cable.
To complete installation customers should provide stilling
chamber. This can be in PVC drainage pipe with a minimum
I.D. of 50mm. The preferred diameter is 80mm of any PVC pipe.

Heavy duty electrode gland assy in PVC 1.8m approx **PA03021391**
Complete with 2.0m RIGID submersible connection and J-Box
for pH / Redox probes A41021850, A41021851 & A42022002

NOTE: for pH our preferred option is A41021851 with 10m cable.

Option for above holders enclosure in lieu of Jay Box to suit
pH / RH Transducer **PA21002939**

NOTE: does **NOT** include pH / RH Transducer, see Yellow Pages.

Heavy duty flexible assembly in PVC 1.8m approx **PA02032789**
Complete with 2.0m flexible submersible connection
and J-Box for BJC S400 Industrial pH / Redox probes

Heavy duty Rigid assembly in PVC 1.8m approx **PA02032790**

Rigid probe holder assembly for, PG13.5 to 1/2" BSPP **PA02032258**
Male PVC 102 mm long to suit 120mm/130mm probe.
For mounting in-line.
Suitable for SP100 & SP200 probes
Suit Vinidex Cat 15 Faucet Tee 1/2".
For different pipeline sizes ask ProMinent.

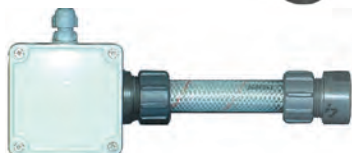
Rigid probe holder assembly for, PG13.5 to 1/2" BSPP **A03001876**
Male PVC 65 mm long to suit 77mm/80mm probe.
For mounting in-line.
Suitable for A41021851 and A42022002 probes
For different pipeline sizes ask ProMinent.

Heavy duty electrode gland assy, MKII, PVC. **PA03021880**
Suit pH / Redox probes A41021850, A41021851
& A42022002

Electrode gland assembly for pipeline mounting, **PA03021134**
heavy duty type with 1-1/4" BSPT connection.
Suit pH / Redox probes A41021850, A41021851
& A42022002

Withdrawable probe holder, to suit 16mm I.D. hose **PA03001113**
and 1-1/2" BSP full bore valve.
Suit pH / Redox probes A41021850, A41021851
& A42022002

Note: Above Part No includes 1-1/2" valve & nipple



4.6 Electrode Holders

Description

Part No.

Price

Electrode Holders - & Filters



By-Pass Sensor Holder DLG 2

for 25mm CLE, CTE etc. and PG13.5 probe with sight glass, sample valve, mounting bracket, 8 x 5 tube inlet and outlet. includes 791818. mounting kit for CLE, CTE etc.

PA03022502

By-Pass Sensor Holder DLG 2 type

for 2 x PG13.5 probe, for pH and ORP, with sight glass, sample valve, mounting bracket, 8 x 5 tube inlet and outlet.

PA03022958



By-Pass Sensor Holder DLG 5

High iron, dirty water applications for use with 25mm CLE, CTE etc.

Includes 1 x 25 mm port, and 2 x PG13.5 ports for pH and Pt100 sensors (if required), mounting bracket, 8 x 5 tube inlet and 16mm hose outlet, mounting kit 791818. for CLE, CTE etc.

PA03002885

Rotameter & Flow Switch for above

P86515T

Add flow control MARIC 33 l/hr assembly (not req'd for pools).

20x1.5 F to 15mm Solvent Weld - including MARIC insert assembly

PA27002656

20x1.5 M to 20x1.5 F - including MARIC insert assembly

PA27002657

20x1.5 F to 1/2" BSPT M - including MARIC insert assembly

PA27002805



Note: If using a Maric Valve you MUST use an filter in-line.

The following Filter Assemblies can be used for Pool and Industrial, and can be used in conjunction with all of our Sensor Holders and Flow switch.

- Max.working pressure 10 bar
- Element 316 Stainless Steel 27 dia x 69
- Filter size 80 micron
- Bowl transparent nylon
- 1/2" BSP threads
- Filtering capacity 55 l/m at .5 bar
- Body fibreglass reinforced polypropylene
- Viton gaskets



Filter only

3240T0235

Filter with 8x5 to 20x1.5F Kit

P3240T0235-A

Filter with 8x5 to 20x1.5F with Maric Kit

P3240T0235-B

Filter with 8x5 to 8x5 Kit

P3240T0235-C

Fitted with 1/4" BSPF to 20x1.5F + DGMA adaptor for connection direct to DGMA

P3240T0235-D

Note: Systems require valve at sample take-off point, **BR-B/V-TEE-MXF-15**

Note: See also ProMinent DGMA units in section 6.0 'Yellow Pages'.

4.7 Probe Holder Accessories

Description	Part No.	Price
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Probe Holder Accessories



Sample Water Low Flow Switch, suitable for fitting to inlet connection on by-pass probe holder assembly, (8 x 5). Arranged to pause controller. This unit is fitted with opposing magnets that act like a spring so it can be mounted in any position. Supplied complete with fittings. Normally Open or Normally Closed contacts available.

PA03022425



Flexible submersion pipe assembly to be used with DYNAPROBE or the MKII Gland Assembly below.

PA02032256



Adaptor PVC tube fitting, from J-Box to 23x16 hose

A27021362

Cap Nut

356562.



Components for Industrial Submersible Electrode Holders

1-1/2" full bore valve - nickel plated brass

A09591853



1-1/2" nipple BSPT Hex SS

A07541866



1/2" BSP M/F Ball Valve (nickle plated brass)

BR-B/V-TEE-MXF-15

4.8 Cables & Accessories

Description

Part No.

Price

CABLES & CONNECTORS



SN6 coax connector

SN6 coax connector for 5 mm dia. coax cable

304974.

SN6 coax connector for 3 mm dia coax cable

304975.

CABLE & GLANDS

Coax Cable, per meter

Military Grade, 50 ohm, type AM-900, Low Noise

A04001118

Grey HC2049 Cable, (2 core pulse)

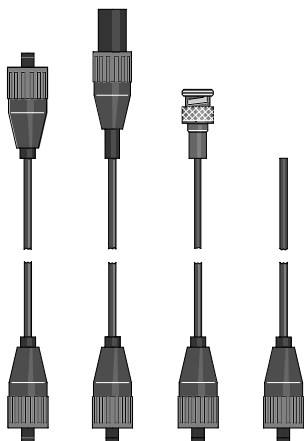
A04001289

Grey cable entry gland 1/4" BSPM

703830.

Black cable entry gland 3/8" BSPM

703885.



ProMinent® DULCOTEST COMPLETE SIGNAL CABLES

2 x SN6 Coax 0.8 m - SS

305077.

2 x SN6 Coax 2.0 m - SS

304955.

2 x SN6 Coax 5.0 m - SS

304956.

2 x SN6 Coax 10.0 m - SS

304957.

Below cables for typical use in PHE / RHE probes
in submersible holders such as PA2032260

SN6 - open end Coax 2.0m - S*

305030.

SN6 - open end Coax 5.0m - S*

305039.

SN6 - open end Coax 10.0m - S*

305040.

SN6 - open end Coax 20.0m - S*

304952.



TERG-A-ZYME®

ENZYME DETERGENT POWDER wt. 20gms

For manual or ultrasonic cleaning of proteinaceous soils from hard
surface materials, Laboratory probes and utensils, Reverse osmosis
equipment, Hospital and industrial ware, to sparkling brilliance.

A52002110

TERG-A-ZYME® Phosphate analysis:

Average 7.3% phosphorus by weight as phosphates.

Phosphorus at the recommended level = 2.1 grams

TERG-A-ZYME® contains no TRI-SODIUM phosphate

© Alconox inc. 1973

4.9 Electrode Comparison List

Description	Part No.	Price
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Electrode Comparison List

Existing Electrode	Part Number	Description	Length mm	Replacement	Comments
pH Electrodes					
PHE 112 SE	305054.	pH Electrode, pH 1-12, 0-60° C, glass, PG 13.5 thread, SN6 Cap, pin wick ref, 1X	120	SP100-4330-DH	
PHEP 112 SE	150041.	pH Electrode, pH 1-12, 0-80° C, glass, PG 13.5 thread, SN6 Cap, pin wick ref, 1X	120	SP200-2330-DH	
PHEX 112 SE	305096.	pH Electrode, pH 1-12, 0-100° C, glass, PG 13.5 thread, SN6 Cap, peripheral ref, 1X	120	SP200-2330-DH	
PHED 112 SE	741036.	pH Electrode, pH 1-12, 0-80° C, glass, PG 13.5 thread, SN6 Cap, pin wick ref, 2X	120	SP200-2330-DH	
No Longer Available	A41011942	pH Probe polmer (Blue), pH 1-13, PG 13.5 thread, SN6 Cap, pin wick ref, 1X	110	SP100-4330-DH	
Not Stocked	A41021850	pH Electrode, pH 1-13, 0-100° C, glass, S/S Cap, pin wick ref, 2X, 3M Cable, pin lugs	80	A41021851	
Still Available	A41021851	pH Electrode, pH 1-13, 0-100° C, glass, S/S Cap, pin wick ref, 2X, 10M Cable, pin lugs	80		
Still Available	A41021852	pH Electrode, pH 1-14, -5-100° C, HT4 glass, S/S Cap, peripheral ref, 2X, 3M Cable, pin lugs	80		
No Longer Available	A41021966	pH Electrode, pH 1-13, 0-100° C, glass, PG13.5 thread, SN6 Cap, peripheral ref, 2X	120	SP200-2330-DH	
Not Stocked	A41022001	pH Electrode, pH 1-13, 0-100° C, glass, S/S Cap, Calomel, pin wick ref, 2X, 3M Cable, pin lugs	80		Not Stocked can be ordered if required
No Longer Available	A41011685	pH Probe polmer (Blue), pH 1-13, S/S cap, pin wick ref, 1X, 3M cable, SN6 Plug	110	SP100-4330-DH	Add Coax cable with
SN6 plug					
Redox Electrodes					
RHE-Pt-SE	305001.	Redox Electrode,glass, 0-60° C, PG 13.5 thread, SN6 Cap, pin wick ref	120	SP100-4PB0-DH	
RHEP-Pt-SE	150094.	Redox Electrode,glass, 0-80° C, PG 13.5 thread, SN6 Cap, pin wick ref	120	SP200-2PB0-DH	
RHEX-Pt-SE	305097.	Redox Electrode,glass, 0-100° C, PG 13.5 thread, SN6 Cap, peripheral ref	120	SP200-2PB0-DH	
No Longer Available	A42011943	Redox Probe polmer (Red), PG 13.5 thread, SN6 Cap, pin wick ref, 1X	110	SP100-4PB0-DH	
No Longer Available	A42021991	Redox Probe, glass, PG 13.5 thread, SN6 Cap, pin wick ref, 1X	120	SP200-2PB0-DH	
Still Available	A42022002	Redox Electrode, glass, S/S Cap, platinum band, 2X, 10M cable, pin lugs.	80		
No Longer Available	A42011686	Redox Probe polmer (Red), S/S Cap, pin wick ref, 1X, 3M cable, SN6 Plug	110	SP100-4PB0-DH	Add Coax cable with
SN6 plug					
Fermprobe					
F-600-B110-A10TE	A41021809	pH Fermprobe, S/S Cap, pin wick ref, 2X, 3M cable, pin lugs	110		use A41021850 Check Temperature Req'd
pH Dynaprobe					
No Longer Available	A41021813	pH Dynaprobe, teflon junction, glass dome bulb, 3M cable, pin lugs			use A41022120
Still Available	A41022120	pH Dynaprobe, teflon junction, glass dome bulb, 10M cable, pin lugs			ST851-T330-A33TE
Still Available	A41021813-TC	pH Dynaprobe, teflon junction, glass dome bulb, 3M cable, pin lugs, temp comp pt100			ST851-T33D-E10T4
Redox Dynaprobe					
Not Stocked	A42022105	Redox Dynaprobe, teflon junction, platinum band, 10m cable, pin lugs			ST851-RPB0-A33TE
ST851-RPB0-A33TE	A42022136	Redox Dynaprobe, teflon junction, platinum band, 10m cable, pin lugs			ST851-RPB0-A33TE
Temperature Electrode					
PT 100 SE	305063.	Temperature Electrode, pt 100, 0-80° C, PG 13.5, SN6 cap			

Description	Part No.	Price
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5.1 ProMcon 500 series Conductivity Controller

Description

Part No.

Price

Digital Display Conductivity Controller

The ProMinent® series 500 Conductivity Controller is designed to control the TDS levels of tower cooling water. When the conductivity probe senses the TDS level exceeds the set-point the bleed solenoid is opened allowing high TDS water to be removed.

The controller features a scrolling menu keeps you informed of conductivity level, set-point, status of inhibitor and biocide dosing, and the day and time.

The controller has 3 main menus

- Advanced
- Change set-up
- Manual

The ProMinent® ProMcon 520 Conductivity is a fully integrated Cooling Water Treatment Control System normally supplied backboard mounted with metering pumps and sample water pipework.

The System provides:

- Conductivity based blow down for TDS control.
- Inhibitor Dosing.
- Timer based single and dual biocide control.
- Auto / Manual Inhibitor, Biocide and Bleed.

The system offers an overall control method for the various forms of chemical treatment of evaporative cooling towers, continually displaying on a rotating screen, the time, set points, pre bleed lockout and biocide status.

Conductivity Control

- Allows the TDS levels of the cooling water to be controlled. The TDS level is sensed by the conductivity probe and when the level exceeds the set-point the bleed solenoid is opened. This allows for the high TDS cooling water to be removed from the tower.
- Conductivity probe - union type for easy service.

Inhibitor Metering

Dosing of inhibitor can be in 3 ways:

- Simultaneously with bleed
- Continuous
- Controlled from a pulse contact water meter

Concept metering pumps have their own speed and stroke capacity adjustment. For Peristaltic metering pumps, the controller provides pump capacity adjustment from 1 to 100 percent when in simultaneous bleed or continuous. When controlled from a water meter there is adjustment for the number of pulses collected (1-100) to give and adjustable on-time from 1-100 seconds.

Timer Based Biocide Control For 1 or 2 Biocides

Timer Controlled biocide dosing is available for 1 or 2 pumps. There are 10 on/off times for both biocides 'A' and 'B' that can be set for any day or every day, with pre bleed and bleed lockout if required.



5.2 ProMcon 500 series Conductivity Controller

Description

Part No.

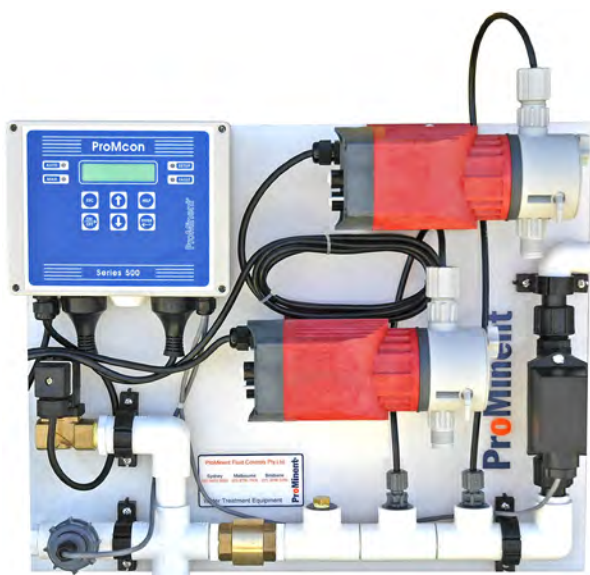
Price

Digital Display Cooling Tower Treatment Package

The ProMinent® ProMcon 520 Conductivity is a fully integrated Cooling Water Treatment Control System normally supplied backboard mounted with metering pumps and sample water pipework.

As a complete pre-assembled package the controller will be supplied with sample manifold, bleed solenoid valve, check valve, and 3 dosing points. A flow switch is available as an optional extra, as are a range of ProMinent dosing pumps.

The standard controller is supplied with a union type conductivity probe assembly and solvent weld PVC tee.



Spare Parts

Conductivity Probes

Conductivity probe assembly with carbon electrodes in PVC union arrangement.

c/w PVC 3/4" shed 40 Tee & 1m cable K=1.0

PA11922172

Probe only for above

A11002172

SOLENOID VALVE 1/2" BSP

146559C



5.3 ProMcon 500 series Conductivity Controller

Description

Part No.

Price

ProMinent®

Model	Description													
C 520 -	Conductivity 0-5,000 microsiemens													
	1 2 X	Power Supply:												
		0 1 2 X	Output:											
			0 X	Input:										
				0 X	Temp Comp:									
					0 2 3	Sockets:								
						0 1	Sensor:							
							0 1	Code:						
								0 B C D F G H S	HDPE Mounting Board with Sample Pipework:					
									0 1 2	Sample Flow Switch:				
										0 1 2	Inhibitor Pump:			
											0 1 4 5 7 8 9	1st Biocide Pump:		
												0 1 4 5 7 8 9	2nd Biocide Pump:	

5.4 Aquatrac Controller Packages

Description

Part No.

Price

Package:

AQT-AGIA-A1

Controller:

Aegis Controller Type AGIA1OPXX0PT001100R1

Measurement:

CTF (conductivity/ temperature/flow) sensor

pH sensor SP200-2330-DH

ORP sensor SP200-2PB0-DH

Inhibitor Pump:

Concept plus CNPA1002PPE200C0100 2.0 l/hr @ 10 bar

Biocide Pump:

Concept plus CNPA1002PPE200C0100 2.0 l/hr @ 10 bar

Hypo Pump:

Concept plus CNPA1002NPB200C0100 2.0 l/hr @ 10 bar

Acid Pump:

Concept plus CNPA1002PPE200C0100 2.0 l/hr @ 10 bar

Bleed:

½" Solenoid Valve

Manifold:
valve.

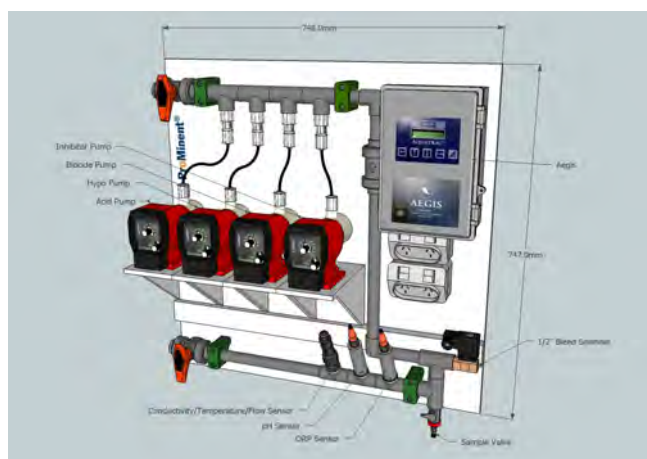
20mm UPVC with check valve, injection points and sample

Electrics:

Supplied with 3 pin standard plug with 2 metre cable.

2 off double power outlets pre-wired for dosing pumps.

Bleed solenoid and sensors cables pre-wired.



Package:

AQT-AGIA-A2

Controller:

Aegis Controller Type AGIA1OPXX0PT001100R1

Measurement:

CTF (conductivity/ temperature/flow) sensor

pH sensor SP200-2330-DH

ORP sensor SP200-2PB0-DH

Inhibitor Pump:

Dulcoflex DF20216T00A10W10 1.6 l/hr @ 1.5 bar

Biocide Pump:

Dulcoflex DF20216T00A10W10 1.6 l/hr @ 1.5 bar

Hypo Pump:

Dulcoflex DF20216T00A10W10 1.6 l/hr @ 1.5 bar

Acid Pump:

Dulcoflex DF20216T00A10W10 1.6 l/hr @ 1.5 bar

Bleed:

½" Solenoid Valve

Manifold:
valve.

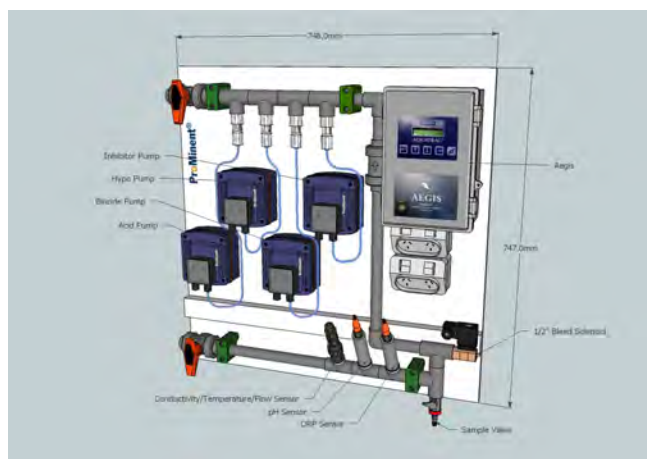
20mm UPVC with check valve, injection points and sample

Electrics:

Supplied with 3 pin standard plug with 2 metre cable.

2 off double power outlets pre-wired for dosing pumps.

Bleed solenoid and sensors cables pre-wired.



5.5 Aquatrac Controller Packages

Description

Part No.

Price

Package:

AQT-AGIA-A3

Controller:

Aegis Controller Type AGIA1IIPH0PT001100R1

Measurement:

CTF (conductivity/ temperature/flow) sensor

pH sensor SP200-2330-DH

CBR sensor Type CBR 1-mA-2ppm

Inhibitor Pump:

Concept plus CNPA1002PPE200C0100 2.0 l/hr @ 10 bar

Biocide Pump:

Concept plus CNPA1002PPE200C0100 2.0 l/hr @ 10 bar

Hypo Pump:

Concept plus CNPA1002NPB200C0100 2.0 l/hr @ 10 bar

Acid Pump:

Concept plus CNPA1002PPE200C0100 2.0 l/hr @ 10 bar

Bleed:

½" Solenoid Valve

Manifold:

20mm UPVC with check valve, injection points and sample

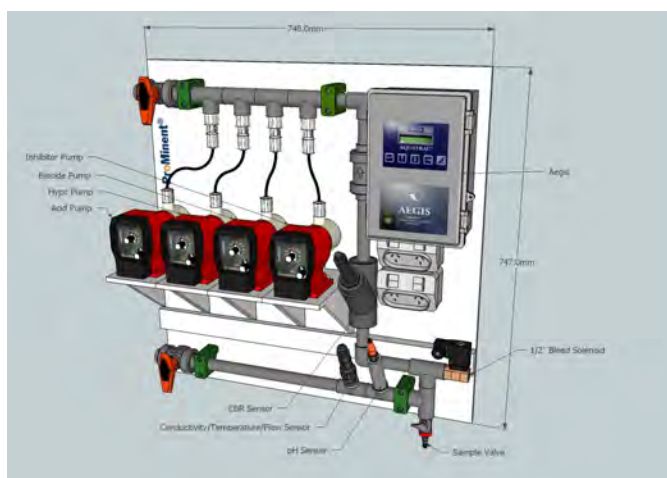
valve.

Electrics:

Supplied with 3 pin standard plug with 2 metre cable.

2 off double power outlets pre-wired for dosing pumps.

Bleed solenoid and sensors cables pre-wired.



Package:

AQT-AGIA-A4

Controller:

Aegis Controller Type AGIA1IIPH0PT001100R1

Measurement:

CTF (conductivity/ temperature/flow) sensor

pH sensor SP200-2330-DH

CBR sensor Type CBR 1-mA-2ppm

Inhibitor Pump:

Dulcoflex DF20216T00A10W10 1.6 l/hr @ 1.5 bar

Biocide Pump:

Dulcoflex DF20216T00A10W10 1.6 l/hr @ 1.5 bar

Hypo Pump:

Dulcoflex DF20216T00A10W10 1.6 l/hr @ 1.5 bar

Acid Pump:

Dulcoflex DF20216T00A10W10 1.6 l/hr @ 1.5 bar

Bleed:

½" Solenoid Valve

Manifold:

20mm UPVC with check valve, injection points and sample

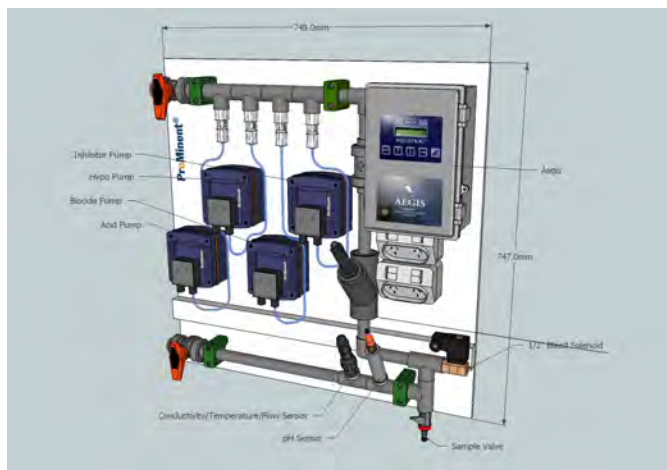
valve.

Electrics:

Supplied with 3 pin standard plug with 2 metre cable.

2 off double power outlets pre-wired for dosing pumps.

Bleed solenoid and sensors cables pre-wired.



5.6 Aquatrac Controller Packages

Description

Part No.

Price

Package:

AQT-SLIM-A1

Controller:

Slimflex Controller Type S4TA COIN OX TB LB 001

Measurement:

CTF (conductivity/ temperature/flow) sensor

ORP sensor SP200-2PB0-DH

Inhibitor Pump:

Concept plus CNPA1002PPE200C0100 2.0 l/hr @ 10 bar

Biocide Pump:

Concept plus CNPA1002PPE200C0100 2.0 l/hr @ 10 bar

Hypo Pump:

Concept plus CNPA1002NPB200C0100 2.0 l/hr @ 10 bar

Bleed:

½" Solenoid Valve

Manifold:

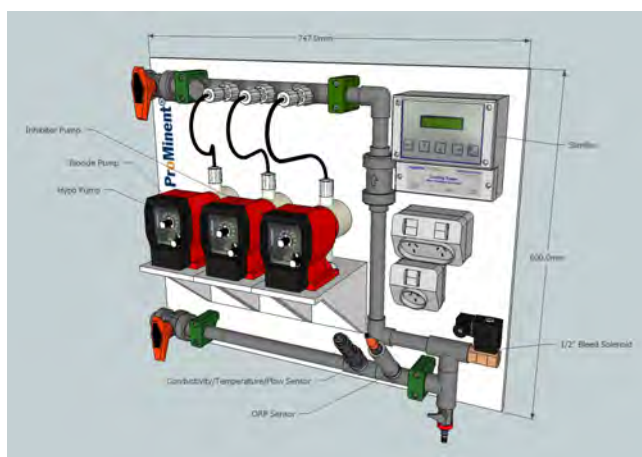
20mm UPVC with check valve, injection points and sample valve.

Electrics:

Supplied with 3 pin standard plug with 2 metre cable.

2 off double power outlets pre-wired for dosing pumps.

Bleed solenoid and sensors cables pre-wired.



Package:

AQT-SLIM-A2

Controller:

Slimflex Controller Type S4TA COIN OX TB LB 001

Measurement:

CTF (conductivity/ temperature/flow) sensor

ORP sensor SP200-2PB0-DH

Inhibitor Pump:

Dulcoflex DF20216T00A10W10 1.6 l/hr @ 1.5 bar

Biocide Pump:

Dulcoflex DF20216T00A10W10 1.6 l/hr @ 1.5 bar

Hypo Pump:

Dulcoflex DF20216T00A10W10 1.6 l/hr @ 1.5 bar

Bleed:

½" Solenoid Valve

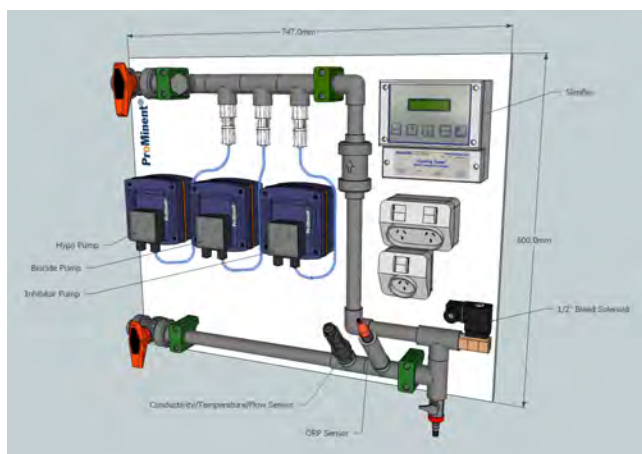
Manifold:

20mm UPVC with check valve, injection points and sample valve.

Electrics:

Supplied with 3 pin standard plug with 2 metre cable.

1 off double power outlet and 1 off single power outlet prewired for dosing pumps. Bleed solenoid and sensors cables pre-wired.



5.7 Aquatrac Controller Packages

Description	Part No.	Price
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Aquatrac Controller Packages

Notes:

Concept Pumps are supplied with dosing valve, foot valve, suction and discharge tubing. The injection valves are fitted into the pipe manifolds. The foot valves and 2 metres of 6x4 mm soft PVC suction tubing are supplied loose.

Dulcoflex pumps are supplied with a weight for the suction line and 2 metres of 6x4 mm soft PVC suction tubing.

Options:

Filter Assembly for sample water ¾" Y type PVC

Trackster 3 software

Suction Assemblies for Concept Pumps (each) PPE 790539

PCB 790536

Wireless Communication for Aegis

Wireless Communication for Slimflex

Spare Parts

Aquatrac pH/ORP Sensor Tee with solution ground PA03023145

CTF Sensor 7760021.

pH Sensor SP200-2330-DH

ORP Sensor SP200-2PB0-DH

NOTES ON WIRELESS COMMUNICATION SETUP

- There must be mobile phone coverage at site for this type of system to work.
- This setup is for a stand alone system, not a connection to an existing LAN.
- **How it Works (General Overview)**
- A maximum of 4 Controllers can be connected to the 3G router via Ethernet cable.
- USB modem attached to router.
- Client Supplied SIM card installed in the USB Modem must have a public IP address.
- Controller is publicly accessible on the Internet.
- Using a computer that has Internet access, you can connect to the Controller via a named address, ie dulcomarionbelrose.dns.alias.com which allows connection to the controller(s). (An account may need to be set up with dyndns.com).
- Note: Router must be configured with controller IP address.

For any additional information, please contact the Sydney Office.

Description	Part No.	Price
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multiFLEX M10

The Aquatrac multiFLEX M10 is a water treatment controller that provides the latest in water management technology. Packed with features, the multiFLEX line of products are designed to provide the highest degree of control and Flexibility.

Powerful Features

- Control up to 4 Towers at once or 8 Boilers
- Web Browser Accessible
- LAN Accessible
- Up to 14 Analog Inputs and Outputs
- Twelve Digital Inputs
- Ten Relay Outputs
- Works with Trackster 3 Software

Spare Parts

CT Sensor (Conductivity/Temperature)	7760200.
Thermal Flow Switch with tee	7760175.

LogR Sensor Package

ProMinent®

Description

Part No.

Price



Note: Tee not supplied

ProMinent® LogR Sensor Package

Description and Use

General corrosion is the evenly distributed thinning of an immersed metal due to the electrochemical reaction between the metal and the process stream. The rate of general corrosion is measured in mils per year, mpy. Weight loss coupons are commonly used to measure general corrosion. The coupon is weighed, immersed for 30, 60 or 90 days, removed, cleaned & re-weighed. The loss of weight & immersion period are converted to a corrosion rate. It's an inexpensive method but it does not measure corrosion rate in real time so it's difficult to identify process conditions, which increase or decrease corrosion.

Linear Polarization Resistance (LPR) measures general corrosion rate in real time updated every 2.5 minutes. The method includes conversion approximations which result is a measured that will not be the same as the coupon rate but that will track the coupon rate. LPR is used to measure changes in corrosion rate as process corrosivity varies and as process chemistry is controlled.

LPR Method

LPR uses two standardized cylindrical metal coupons, nominally 0.1875" D x 1.25" L of the same metallurgy, typically both steel, copper, admiralty, copper-nickel or zinc. The coupons are polarized to several mV and the resulting current measured. The polarity is reversed & the current re-measured. The corrosion rate is calculated using the measured currents, the polarization voltage corrected for process resistivity and constants based on the coupon metallurgy.

Pitting Indicator

The current measured when the coupon tips are connected together is displayed as a pitting index in mpy. Although LPR cannot measure the actual pitting rate, the pitting index is used as a measure of pitting severity.

ProMinent® LogR offers exchangeable sensor tips with on-board selectable metallurgy (carbon steel, copper & 443 admiralty), data logging with USB compatible down-loading & 4-20mA reporting & alarm contacts.

We typically stock one unit which is our P/N: 7760788.
This is the LogR monitor, and sensor (no tee).
The sensor has two 'tips' on the end, and both tips are the same metallurgy.
The tips on the sensor included with above P/N: 7760788 are Carbon Steel ('CS')

The sensor-tips are replaceable, and inter-changeable as pairs.

*Note: This means you must have same metallurgy for both tips on the sensor.
They are regarded as consumables.*

Sensor-tips are stocked separately.

1x pair (i.e. 2 individual tips) of Copper Tips ('Cu')
1x pair of Carbon Steel Tips ('CS')
1x pair of Admiralty Tips ('AM')

7760241.	\$92 net
7760240.	\$70 net
7760238.	\$126 net

LogR Sensor Package - Specifications

Description		Part No.	Price
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Sensor	Specification	Explanation / Detail	
LPR Sensor (Linear Polarization Resistance)	Non-metallic sensor rated 50C, 125F max, 125 psi max. Immersed components ABT, nylon & epoxy.	Digital, DC isolated 3 wire sensor, Power, Common & Data. Sensor supplied with ¾" SCH 80 threaded PVC 'T' fitting with ¾" non-metallic sensor entry fitting and 3m, 10ft of 3xAWG 22 PVC jacketed cable.	
LPR_CS LPR_CU LPR_AM	1010 Carbon Steel CDA 110 Copper CDA 443 Admiralty	1¼"L x 3/16"D electrode set supplied installed. Sensor accepts standardized LPR electrodes threaded #4-40 UNC	

LogR	Specification	Explanation / Detail	
Corrosion Rate Measure & Display	0.01 to 50.0 mpy for steel Updates every 150 seconds.	LogR CE compliant under 89/336/EEC Electrode metallurgy user selectable.	
4-20mA Output	Three wire: Power, Ground & 4-20mA out Resolution nominally 1 part in 4000.	User selectable 4-20mA range from 2 to 100 mpy. Adjustable loop Span & Zero.	
Data Logging	1Year @ 5 minute intervals.	Log auto-uploaded via USB thumb drive in .CSV format (Comma Separated Variable)	
Alarm Contacts	Normally closed Rated 24VDC, 250mA Thermally fused 300mA	User adjustable alarm trip point. Alarm contacts also open on loss of power.	
Display & Data Link	2x8 LCD Display. USB Host emulation.	Battery backed clock time & date stamps data log.	
UP-DOWN & Mode Switches	UP & DOWN push buttons 8 Selectable display modes, 0 to 7.	0: Corrosion 1: Metallurgy 2: Conductivity 3: Diagnostic 4: 4-20mA Current 5: Date-Time 6: Alarm Contacts 7: Loop Span	
Conductivity	50 to 9999 uS	Autoranging. 1uS resolution. Corrects corrosion rate for water resistivity.	
Power	9-24VDC, 100mA max. Polarity Protected.	Use included 12VDC, 500mA power cube or site 9-24VDC power. Power 240V AC plug set available.	
LogR Enclosure	Non-metallic, Rated IP65 4 3/8" x 4 3/8" x1 ¾", 110mm x 110mm x45mm	PG16 cable entry for sensor & current loop cabling included. Wall mount 3-point bracket included.	
Wiring Terminal Blocks	Rated AWG16-26 3.5mm spacing.	Power, 4-20mA, sensor and alarm contacts, 2 piece, removable wiring blocks	

6.1 Pool Packages

6.1 COMPACT Controller

DULCOMETER® Compact transmitters with control functions for pH and ORP measured variables provide basic functions for applications in water treatment. They have a fixed configuration with the following features.

Measured variables pH and ORP (can be changed on the controller)

- Operation independent of the operating language (use of abbreviations, such as CAL, PARAM, CONFIG, ERROR)
- Illuminated display
- 3 LED display operating state (relay 1 / 2 active, Error)
- Sensor monitoring for pH
- P and PID control characteristics
- Selectable control direction (raise or lower measured value)
- Pulse frequency relay for control of metering pump
- Power relay can be configured as an alarm, limit value or pulse width modulated control output for metering pumps, (connection function or switch on operating voltage)
- Analogue output 0/4...20 mA can be configured as a writer output or control output
- Digital input to switch off the control or to process a sample water limit contact by remote control
- Temperature sensor input (Pt 1000) for temperature compensation of the pH value

Applications

- Waste water treatment
- Treatment of drinking water
- Swimming pool water treatment

Technical Data

Measurement range

pH: 0.00 ... 14 ORP: -1000 ... +1000 mV

Resolution

pH: 0,01 pH ORP: 1 mV

Correction variable

Temperature for pH via Pt 1000

Correction range

0 ... 120 °C

Control characteristic

P/PID

Control

1-way controller with selectable control direction (raise/lower)

Signal current output

1 x 0/4-20 mA galvanically isolated max. load 400 Ω Range and assignment (measured or actuating variable) can be set

Control outputs

1 pulse frequency output for control of the metering pump 1 relay (alarm or limit value relay or pulse length control) 1 x analogue output 0/4 ... 20 mA

Electrical connection

90 - 253 V ~

Ambient temperature

-10 ... +60 °C

Enclosure rating

IP 67

Dimensions

135 x 125 x 75 mm (H x W x D)

Weight

0,5 kg

Compact controller for pH/ORP 1035638.

Compact controller for Chlorine 1038546.

Panel Mounting Kit 1037273.

Sensor for Chlorine, **ONLY** for use with **Compact Controller**

CLB 2-µA

Measured variable

free chlorine (hypochlorous acid HOCl)

Measuring range

0.05 - 5.0 mg/l: linear, can be used for shock chlorination up to 10.0 mg/l

Reference method

DPD1

pH range

5.0 ... 9.0

Temperature

5 ... 45 °C

Max. pressure

3.0 bar

Intake flow

30...60 l/h (in DGMA), constant flow needed as flow-dependent signal

Power supply

16...24 V DC (2-wire)

Output signal

Non-amplified primary current signal, not temperature-compensated, uncalibrated, not electrically isolated

Temperature compensation

Pt 1000, integrated, calculation in the compact controller

Typical applications

Swimming pool, drinking water, can also be used with membrane-free chlorine production electrolysis processes, even with varying media temperatures

Measurement and control equipment

Compact controller

In-line probe fitting

DGM, DLG III

Measuring principle

amperometric, 3 electrodes, no diaphragm

Measuring range

CLB 2-µA-5 ppm

1038902

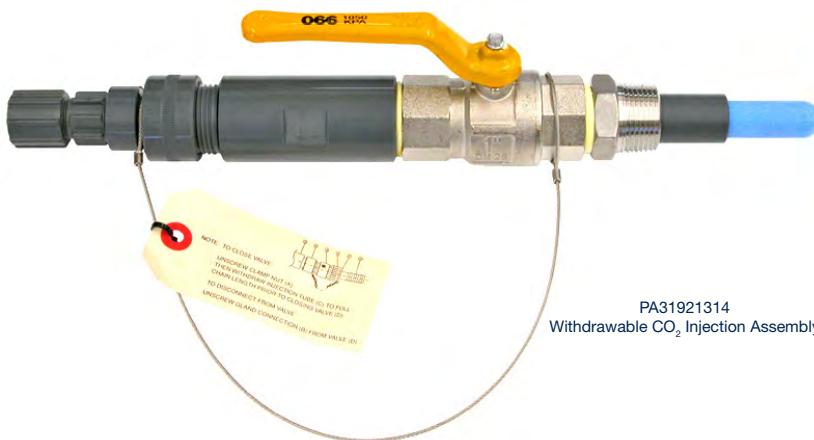


6.2 Pool Packages

6.2 Swimming Pool Accessories



PA31002458
CO₂ Controller



PA31921314
Withdrawable CO₂ Injection Assembly



PA03022425
Sample Flow Switch



SP100-4330-DH
pH Sensor



SP100-4PBO-DH
ORP Sensor



DGMA in-Line
Probe Holder & Flow Switch

Optional Equipment

Metering Pumps - see 'Yellow Pages' - select from the ProMinent range.

Probes - select from the ProMinent range, see 'Yellow Pages' section 5 and 'Green Pages' section 4.

Probe holders - select from the ProMinent range, see section 6 'Yellow Pages' for DGMA holders and section 4 'Green Pages' for low cost alternatives.

CO₂ Flow Regulator 25 l/m with Flow Meter and 240v Solenoid (as above) in enclosure with lighted on/off switch.

PA31002458

Sample Flow switch (low volt).

PA03022425

CO₂ Fixed In-line Injection Assy with 1/2" Bsp Male Connection.

PA09751676

CO₂ Withdrawable Injection Assembly to suit 100mm (4" dia.) pipe & over.

PA31921314

CO₂ Bottle Regulator with dual gauge.

PA31001428

includes regulator & pressure gauge.

Safety Chains & Brackets for single CO₂ bottle.

A31001935

Safety Chains & Brackets for dual CO₂ bottles.

A31001936

6.3 COMPACT controller pH/ORP Pool Packages

6.3 Pool Packages

COMPACT Controller

pH/ORP Pool Packages



DCC300 pH/ORP Pool Control System

Part No	Description	
1035638	COMPACT Controller	2
SP100-4330-DH	pH probe	1
SP100-4PB0-DH	ORP probe	1
DGMA320T000	Probe holder & flow switch assembly	1
305030	Probe cable	2
A04001289	cable 2 core	1
PA07221061	PVC 1/2" to 8x5 mm	2
A25251004	PE tube 25m 8 x 5mm	1
P3240T0235-D	Filter Assembly	1
A35082644	Backboard 600 x 500 & fitting	1
	pH 7 buffer & PH4	1

All mounted & with control cables for pumps

DCC300SC special for Salt Chlorinator



DCC400 pH/ORP Pool Control System

Part No	Description	
1035638	COMPACT Controller	2
PA31002458	CO ₂ Controller	1
PA09751676	Fixed in-line CO ₂ Injection 1/2" BSPM	1
SP100-4330-DH	pH probe	1
SP100-4PB0-DH	ORP probe	1
DGMA320T000	Probe holder & flow switch assembly	1
305030	Probe cable	2
A04001289	cable 2 core	1
PA07221061	PVC 1/2" to 8x5 mm	2
A25251004	PE tube 25m 8 x 5mm	1
A35082644	Backboard 600 x 500 & fitting	1
P3240T0235-D	Filter Assembly	1
	pH 7 buffer & PH4	1

All mounted & with control cables for pumps

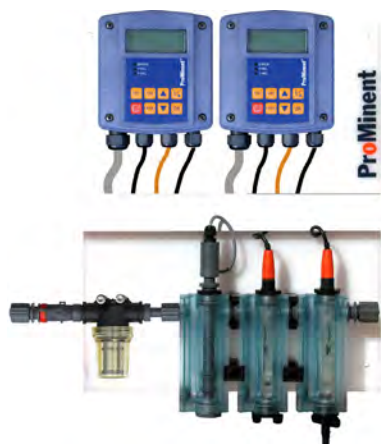
DCC400SC special for Salt Chlorinator

6.3 COMPACT controller pH/ORP Pool Packages

6.3 Pool Packages

COMPACT Controller

pH/CI Pool Packages



DCC500 pH/CI Pool Control System

Part No	Description	
1035638	COMPACT Controller pH	1
1038546	COMPACT Controller Chlorine	1
SP100-4330-DH	pH probe	1
1038902	CLB 2-μA-5 ppm probe	1
DGMA320T000	Probe holder & flow switch assembly	1
305030	Probe cable	2
A04001289	cable 2 core	1
PA07221061	PVC 1/2" to 8x5 mm	2
A25251004	PE tube 25m 8 x 5mm	1
P3240T0235-D	Filter Assembly	1
A35082644	Backboard 600 x 500 & fitting	1
	pH 7 buffer & PH4	1

All mounted & with control cables for pumps



DCC600 pH/CI Pool Control System

Part No	Description	
1035638	COMPACT Controller	1
1038546	COMPACT Controller Chlorine	1
PA31002458	CO ₂ Controller	1
PA09751676	Fixed in-line CO ₂ Injection 1/2" BSPM	1
SP100-4330-DH	pH probe	1
1038902	CLB 2-μA-5 ppm probe	1
DGMA320T000	Probe holder & flow switch assembly	1
305030	Probe cable	2
A04001289	cable 2 core	1
PA07221061	PVC 1/2" to 8x5 mm	2
A25251004	PE tube 25m 8 x 5mm	1
A35082644	Backboard 600 x 500 & fitting	1
P3240T0235-D	Filter Assembly	1
	pH 7 buffer & PH4	1

All mounted & with control cables for pumps

OPTIONS

PA55003052	Volt Free relays for external stop/start of any Beta, Gamma L, Delta, Sigma via pump control cable. This assembly includes 2 relays in a single enclosure mounted on the backboard & into the instrument.
PA55003053	240 volt relay switched output for control of other equipment. (e.g. hard wired Beta pump). This includes 2 relays in a single enclosure mounted on the backboard and into the instrument.
PA55003054	240 volt relay switched output for control of other equipment. This includes 2 relays with GPO's mounted on the backboard and into the instrument.

OPTIONS

PA55003055	Volt Free relays for external stop/start of any Beta, Gamma L, Delta, Sigma via pump control cable. This assembly includes 1 relay in a single enclosure mounted on the backboard & into the instrument.
PA55003056	240 volt relay switched output for control of other equipment. (e.g. hard wired Beta pump). This includes 1 relay in a single enclosure mounted on the backboard and into the instrument.
PA55003057	240 volt relay switched output for control of other equipment. This includes 1 relay with GPO mounted on the backboard and into the instrument.

6.4 diaLog pH/Cl₂ Pool Packages

6.4 Pool Packages

diaLog pH/Cl₂ Pool Packages

diaLog500 pH/Cl₂ Pool Control System



Part No	Description	
DACA00612000010010EN	DULCOMETER diaLog Controller	1
792919	Chlorine sensor CLE 3-mA-10ppm	1
SP100-4330-DH	pH probe	1
DGMA311T000	Probe holder & flow switch assembly	1
305030	Probe cable	1
A04001289	cable 2 core	2
PA07221061	PVC 1/2" to 8x5 mm	2
A25251004	PE tube 25m 8 x 5mm	1
P3240T0235-D	Filter Assembly	1
A35082644	Backboard 600 x 500 & fitting	1
506253	pH 7 buffer	1
506251	pH 4 buffer	1

diaLog600 pH/Cl₂ Pool Control System



Part No	Description	
DACA00612000010010EN	DULCOMETER diaLog Controller	1
PA31002458	CO2 flow regulator assembly	1
792919	Chlorine sensor CLE 3-mA-10ppm	1
SP100-4330-DH	pH probe	1
DGMA311T000	Probe holder & flow switch assembly	1
305030	Probe cable	1
A04001289	cable 2 core	2
PA07221061	PVC 1/2" to 8x5 mm	2
A25251004	PE tube 25m 8 x 5mm	1
P3240T0235-D	Filter Assembly	1
A35082644	Backboard 600 x 500 & fitting	1
PA09751676	Fixed in-line CO2 injection 1/2" BSPM	1
506253	pH 7 buffer	1
506251	pH 4 buffer	1

diaLog700 pH/Cl₂ Pool Control System



Part No	Description	
DACA00612000010010EN	DULCOMETER diaLog Controller	1
740684	Chlorine sensor CTE1-mA-10ppm	1
SP100-4330-DH	pH probe	1
DGMA311T000	Probe holder & flow switch assembly	1
305030	Probe cable	1
A04001289	cable 2 core	2
PA07221061	PVC 1/2" to 8x5 mm	2
A25251004	PE tube 25m 8 x 5mm	1
P3240T0235-D	Filter Assembly	1
A35082644	Backboard 600 x 500 & fitting	1
506253	pH 7 buffer	1
506251	pH 4 buffer	1

diaLog800 pH/Cl₂ Pool Control System



Part No	Description	
DACA00612000010010EN	DULCOMETER diaLog Controller	1
PA31002458	CO2 flow regulator assembly	1
740684	Chlorine sensor CTE1-mA-10ppm	1
SP100-4330-DH	pH probe	1
DGMA311T000	Probe holder & flow switch assembly	1
305030	Probe cable	1
A04001289	cable 2 core	2
PA07221061	PVC 1/2" to 8x5 mm	2
A25251004	PE tube 25m 8 x 5mm	1
P3240T0235-D	Filter Assembly	1
A35082644	Backboard 600 x 500 & fitting	1
PA09751676	Fixed in-line CO2 injection 1/2" BSPM	1
506253	pH 7 buffer	1
506251	pH 4 buffer	1

6.5 Dulcomarin II Compact Pool Packages

6.5 Pool Packages



DULCOMARIN-300

Dulcomarin II Compact Pool System

pH / Redox / Acid

Part No	Description	
DXCaW051M0PSEN	Dulcomarin	1
DGMa320T000	Probe holder	1
SP100-4330-DH	pH electrode	1
SP100-4PB0-DH	Redox Electrode	1
1024105	Coax Cable 0.8m	2
A35051307	Mounting Board 750H x 600W	1
724009	Power Cable	1
A04001289	2 Core Cable for Flow Switch	1
PROMLABEL150	ProMinent Label 150mm	1
P3240T0235-D	Filter Assembly	1
PA07221061	1/2" to 8 x 5 PVC Adaptor	2
A25251004	8 x 5 mm LDPE tubing - 25 m	1
506253	pH Buffer 7	1
506251	pH Buffer 4	1



DULCOMARIN-400

Dulcomarin II Compact Pool System

pH / Redox / CO₂

Part No	Description	
DXCaW051M0PSEN	Dulcomarin	1
DGMa320T000	Probe holder	1
SP100-4330-DH	pH sensor	1
SP100-4PB0-DH	Redox sensor	1
1024105	Coax Cable 0.8m	2
A35051307	Mounting Board 750H x 600W	1
724009	Power Cable	1
A04001289	2 Core Cable for Flow Switch	1
PROMLABEL150	ProMinent Label 150mm	1
P3240T0235-D	Filter Assembly	1
PA31002458	CO2 Controller	1
PA09751676	CO2 Injection quill - 1/2"BSPM	1
PA07221061	1/2" to 8 x 5 PVC Adaptor	2
A25251004	8 x 5 mm LDPE tubing - 25m	1
506253	pH Buffer 7	1
506251	pH Buffer 4	1



DULCOMARIN-500

Dulcomarin II Compact Indoor Pool System

pH / CLE 3 / Acid

Part No	Description	
DXCaW051M0PSEN	Dulcomarin	1
DGMa311T000	Probe holder	1
SP100-4330-DH	pH electrode	1
1024105	Coax Cable 0.8m	1
A35051307	Mounting Board 750H x 600W	1
724009	Power Cable	1
A04001289	2 Core Cable for Flow Switch	1
PROMLABEL150	ProMinent Label 150mm	1
1023425	Chlorine Sensor CLE3-CAN-10ppm	1
PA07221061	1/2" to 8 x 5 PVC Adaptor	2
A25251004	8 x 5 mm LDPE tubing - 25m	1
P3240T0235-D	Filter Assembly	1
506253	pH Buffer 7	1
506251	pH Buffer 4	1

6.5 Dulcomarin II Compact Pool Packages

6.5 Pool Packages



DULCOMARIN-510

pH / CLE 3 / Redox / Acid Compact Indoor Pool System

Part No	Description	
DXCaW051M0PSEN	Dulcomarin II	1
DGMa321T000	Probe holder	1
SP100-4330-DH	pH sensor	1
SP100-4PB0-DH	Redox sensor	1
1024105	Coax Cable 0.8m	2
A35051307	Mounting Board 750H x 600W	1
724009	Power Cable	1
A04001289	2 Core Cable for Flow Switch	1
PROMLABEL150	ProMinent Label 150mm	1
1023425	Chlorine sensor CLE3-CAN-10ppm	1
PA07221061	1/2" to 8 x 5 PVC Adaptor	2
A25251004	8 x 5 mm LDPE tubing - 25m	1
506253	pH Buffer 7	1
P3240T0235-D	Filter Assembly	1
506251	pH Buffer 4	1



DULCOMARIN-520

Dulcomarin II Compact Indoor Pool System

pH / CLE 3 / CTE / Acid

Part No	Description	
DXCaW051M0PSEN	Dulcomarin	1
DGMa312T000	Probe holder	1
SP100-4330-DH	pH sensor	1
1024105	Coax Cable 0.8m	1
A35051307	Mounting Board 750H x 600W	1
724009	Power Cable	1
A04001289	2 Core Cable for Flow Switch	1
PROMLABEL150	ProMinent Label 150mm	1
1023425	Chlorine sensor CLE3-CAN-10ppm	1
1023427	Chlorine sensor CTE1-CAN-10ppm	1
PA07221061	1/2" to 8 x 5 PVC Adaptor	2
A25251004	8 x 5 mm LDPE tubing - 25m	1
P3240T0235-D	Filter Assembly	1
506253	pH Buffer 7	1
506251	pH Buffer 4	1



DULCOMARIN-530

Dulcomarin II Compact Indoor Pool System

pH / CLE 3 / CTE / Redox / Acid

Part No	Description	
DXCaW051M0PSEN	Dulcomarin	1
DGMa322T000	Probe holder	1
SP100-4330-DH	pH sensor	1
SP100-4PB0-DH	Redox sensor	1
1024105	Coax Cable 0.8m	2
A35051307	Mounting Board 750H x 600W	1
724009	Power Cable	1
A04001289	2 Core Cable for Flow Switch	1
PROMLABEL150	ProMinent Label 150mm	1
1023425	Chlorine sensor CLE3-CAN-10ppm	1
1023427	Chlorine sensor CTE1-CAN-10ppm	1
PA07221061	1/2" to 8 x 5 PVC Adaptor	2
A25251004	8 x 5 mm LDPE tubing - 25m	1
P3240T0235-D	Filter Assembly	1
506253	pH Buffer 7	1
506251	pH Buffer 4	1

6.5 Dulcomarin II Compact Pool Packages

6.5 Pool Packages



DULCOMARIN-600

Dulcomarin II Compact Indoor Pool System

Part No	Description	
DXCaW051M0PSEN	Dulcomarin	1
DGMa311T000	Probe holder	1
SP100-4330-DH	pH sensor	1
1024105	Coax cable 0.8m	1
A35051307	Mounting board 750H x 600W	1
724009	Power cable	1
A04001289	2 Core cable for Flow Switch	1
PROMLABEL150	ProMinent label 150mm	1
PA31002458	CO2 Controller	1
PA09751676	CO2 Injection quill - 1/2" BSPM	1
1023425	Chlorine sensor CLE3-CAN-10ppm	1
PA07221061	1/2" to 8 x 5 PVC Adaptor	2
A25251004	8 x 5 mm LDPE tubing - 25m	1
P3240T0235-D	Filter Assembly	1
506253	pH Buffer 7	1
506251	pH Buffer 4	1

DULCOMARIN-610

Dulcomarin II Compact Indoor Pool System

pH / CLE 3 / Redox / CO₂

Part No	Description	
DXCaW051M0PSEN	Dulcomarin	1
DGMa321T000	Probe holder	1
SP100-4330-DH	pH sensor	1
SP100-4PB0-DH	Redox sensor	1
1024105	Coax cable 0.8m	2
A35051307	Mounting board 750H x 600W	1
724009	Power cable	1
A04001289	2 Core cable for Flow Switch	1
PROMLABEL150	ProMinent Label 150mm	1
PA31002458	CO2 Controller	1
PA09751676	CO2 Injection quill - 1/2" BSPM	1
1023425	Chlorine sensor CLE3-CAN-10ppm	1
PA07221061	1/2" to 8 x 5 PVC Adaptor	2
A25251004	8 x 5 mm LDPE tubing - 25m	1
P3240T0235-D	Filter Assembly	1
506253	pH Buffer 7	1
506251	pH Buffer 4	1

DULCOMARIN-620

Dulcomarin II Compact Indoor Pool System

pH / CLE 3 / CTE / CO₂

Part No	Description	
DXCaW051M0PSEN	Dulcomarin	1
DGMa312T000	Probe holder	1
SP100-4330-DH	pH sensor	1
1024105	Coax cable 0.8m	1
A35051307	Mounting board 750H x 600W	1
724009	Power cable	1
A04001289	2 Core cable for Flow Switch	1
PROMLABEL150	ProMinent Label 150mm	1
PA31002458	CO2 Controller	1
PA09751676	CO2 Injection quill - 1/2" BSPM	1
1023425	Chlorine sensor CLE3-CAN-10ppm	1
1023427	Chlorine sensor CTE1-CAN-10ppm	1
PA07221061	1/2" to 8 x 5 PVC Adaptor	2
A25251004	8 x 5 mm LDPE tubing - 25m	1
P3240T0235-D	Filter Assembly	1
506253	pH Buffer 7	1
506251	pH Buffer 4	1



6.5 Dulcomarin II Compact Pool Packages

6.5 Pool Packages



DULCOMARIN-630

Dulcomarin II Compact Indoor Pool System

pH / CLE 3 / CTE / Redox / CO₂

Part No	Description	
DXCaW051M0PSEN	Dulcomarin	1
DGMa322T000	Probe holder	1
SP100-4330-DH	pH electrode	1
SP100-4PB0-DH	Redox Electrode	1
1024105	Coax Cable 0.8m	2
A35051307	Mounting Board 750H x 600W	1
724009	Power Cable	1
A04001289	2 Core Cable for Flow Switch	1
PROMLABEL150	ProMinent Label 150mm	1
PA31002458	CO2 Controller	1
PA09751676	CO2 Injection quill - 1/2" BSPM	1
1023425	Chlorine sensor CLE3-CAN-10ppm	1
1023427	Chlorine sensor CTE1-CAN-10ppm	1
PA07221061	1/2" to 8 x 5 PVC Adaptor	2
A25251004	8 x 5 mm LDPE tubing - 25m length	1
P3240T0235-D	Filter Assembly	1
506253	pH Buffer 7	1
506251	pH Buffer 4	1



DULCOMARIN-700

Dulcomarin II Compact Outdoor Pool System

pH / CGE / Acid

Part No	Description	
DXCaW051M0PSEN	Dulcomarin	1
DGMa311T000	Probe holder	1
SP100-4330-DH	pH sensor	1
1024105	Coax cable 0.8m	1
A35051307	Mounting board 750H x 600W	1
724009	Power cable	1
A04001289	2 Core cable for Flow Switch	1
PROMLABEL150	ProMinent Label 150mm	1
1024420	Chlorine sensor CGE2-CAN-10ppm	1
PA07221061	1/2" to 8 x 5 PVC Adaptor	2
A25251004	8 x 5 mm LDPE tubing - 25m	1
P3240T0235-D	Filter Assembly	1
506253	pH Buffer 7	1
506251	pH Buffer 4	1



DULCOMARIN-710

Dulcomarin II Compact Outdoor Pool System

pH / CGE / Redox / Acid

Part No	Description	
DXCaW051M0PSEN	Dulcomarin	1
DGMa321T000	Probe holder	1
SP100-4330-DH	pH sensor	1
SP100-4PB0-DH	Redox sensor	1
1024105	Coax cable 0.8m	2
A35051307	Mounting board 750H x 600W	1
724009	Power cable	1
A04001289	2 Core cable for Flow Switch	1
PROMLABEL150	ProMinent Label 150mm	1
1024420	Chlorine sensor CGE2-CAN-10ppm	1
PA07221061	1/2" to 8 x 5 PVC Adaptor	2
A25251004	8 x 5 mm LDPE tubing - 25m	1
P3240T0235-D	Filter Assembly	1
506253	pH Buffer 7	1
506251	pH Buffer 4	1

6.5 Dulcomarin II Compact Pool Packages

6.5 Pool Packages



DULCOMARIN-800

Dulcomarin II Compact Indoor Pool System

pH / CGE / CO₂

Part No	Description	
DXCaW051M0PSEN	Dulcomarin	1
DGMa311T000	Probe holder	1
SP100-4330-DH	pH sensor	1
1024105	Coax cable 0.8m	1
A35051307	Mounting board 750H x 600W	1
724009	Power cable	1
A04001289	2 Core cable for Flow Switch	1
PROMLABEL150	ProMinent Label 150mm	1
PA31002458	CO2 Controller	1
PA09751676	CO2 Injection quill - 1/2"BSPM	1
1024420	Chlorine sensor CGE2-CAN-10ppm	1
PA07221061	1/2" to 8 x 5 PVC Adaptor	2
A25251004	8 x 5 mm LDPE tubing - 25m	1
P3240T0235-D	Filter Assembly	1
506253	pH Buffer 7	1
506251	pH Buffer 4	1



DULCOMARIN-810

Dulcomarin II Compact Indoor Pool System

pH / CGE / Redox / CO₂

Part No	Description	
DXCaW051M0PSEN	Dulcomarin	1
DGMa321T000	Probe holder	1
SP100-4330-DH	pH sensor	1
SP100-4PB0-DH	Redox sensor	1
1024105	Coax cable 0.8m	2
A35051307	Mounting board 750H x 600W	1
724009	Power cable	1
A04001289	2 Core cable for Flow Switch	1
PROMLABEL150	ProMinent Label 150mm	1
PA31002458	CO2 Controller	1
PA09751676	CO2 Injection quill - 1/2"BSPM	1
1024420	Chlorine sensor CGE2-CAN-10ppm	1
PA07221061	1/2" to 8 x 5 PVC Adaptor	2
A25251004	8 x 5 mm LDPE tubing - 25m	1
P3240T0235-D	Filter Assembly	1
506253	pH Buffer 7	1
506251	pH Buffer 4	1

Note:

Extra for OPC Server

Extra for A Module for pump activation or mA output

Extra for G Module for individual alarms

Note:

All Dulcomarin controllers include embedded web server and screen recorder which has 128 Mb SD card at N/C

6.5 Dulcomarin II Accessories

6.5 Pool Package Accessories

Chlorine sensor CLE 3-CAN-10 ppm	1023425.
Chlorine sensor CLE 3.1-CAN-10 ppm	1023426.
Chlorine sensor CTE 1-CAN-10 ppm	1023427.
Chlorine sensor CGE 2-CAN-10 ppm	1024420.
Chlorine sensor BRE 3-CAN-10 ppm	1029660.
Cable connection-CAN M12 5pol. 0,5m	1022137.
Cable connection-CAN M12 5pol. 1m	1022139.
Cable connection-CAN M12 5pol. 2m	1022140.
Cable connection-CAN M12 5pol. 5m	1022141.
T-splitter M12 5pol. CAN	1022155.
Terminator M12-female 120R(4-5)	1022154.
Terminator M12-male 120R(4-5)	1022592.
CAN-BUS-Cable	1022160.
Joining Kit CAN-BUS-Cable	1026589.
CAN Connection Cable - Green - CSN M12 to RJ45	1026715.
Cross Over Cable - Grey - RJ45 to RJ45	1027859.
LAN Coupling - Silver - RJ45	1027860.

BUFFERS

Vial of 10 Capsules pH4 Buffer Kit	A12001261
Vial of 10 Capsules pH7 Buffer Kit	A12001262
Vial of 10 Capsules pH10 Buffer Kit	A12001263

Each Capsule makes 100 mls Buffer

Note: Above part numbers and prices do not include distilled water.

BUFFER SOLUTION

3-molar KCl solution, 50 ml	505533.
3-molar KCl solution, 250 ml	791440.
3-molar KCl solution, 1000 ml	791441.
Buffer solution 465 mV, 30 ml	1042307.
Buffer solution 220 mV, 50 ml	506244.
Buffer solution pH 4.0 - red, 50 ml	506251.
Buffer solution pH 7.0 - green, 50 ml	506253.
Buffer solution pH 10.0 - blue, 50 ml	506255.

6.6 Chlorine Analyser Packages

6.6 Chlorine Analyser Packages



Chlorine Analyser Package

PA51002880

Part No	Description	
D1CBW00601000VC1011G00EN	Monitor	1
1003203	CTE 1-mA-5 ppm	1
A04001289	2core cable	2
PA03022502	By-pass sensor holder DLG2	1
P3240T0235-B	Filter with maric valve kit	1
PA07221061	1/2 inch to 8x5 mm PVC	2
DGMA300T000	Rotameter & flowswitch	
A25251004	25m, 8 x 5mm PE tube	1
A35082644	Backboard mounted	1

Note: With 1/2" BSPM or 8x5 on inlet, Maric valve, filter, CTE - 5 ppm

Chlorine Analyser Package

PA51002881

Part No	Description	
D1CBW00601000VC1011G00EN	Monitor	1
740685	CTE 1-mA-2 ppm	1
A04001289	2core cable	2
PA03022502	By-pass sensor holder DLG2	1
P3240T0235-B	Filter with maric valve kit	1
PA07221061	1/2 inch to 8x5 mm PVC	2
DGMA300T000	Rotameter & flowswitch	1
A25251004	25m, 8 x 5mm PE tube	1
A35082644	Backboard mounted	1

Note: With 1/2" BSPM or 8x5 on inlet, Maric valve, filter, CTE - 2 ppm

Chlorine Analyser Package

PA51002878

Part No	Description	
D1CBW00601000VC1011G00EN	Monitor	1
1003203	CTE 1-mA-5 ppm	1
A04001289	2core cable	2
PA03022502	By-pass sensor holder DLG2	1
PA27002656	Maric valve	1
PA07221061	1/2 inch to 8x5 mm PVC	2
DGMA300T000	Rotameter & flowswitch	1
A25251004	25m, 8 x 5mm PE tube	1
A35082644	Backboard mounted	1

Note: With 1/2" BSPM on inlet, Maric valve, no filter, CTE - 5 ppm

Chlorine Analyser Package

PA51002879

Part No	Description	
D1CBW00601000VC1011G00EN	Monitor	1
740685	CTE 1-mA-2 ppm	1
A04001289	2core cable	2
PA03022502	By-pass sensor holder DLG2	1
PA27002656	Maric valve	1
PA07221061	1/2 inch to 8x5 mm PVC	2
DGMA300T000	Rotameter & flowswitch	1
A25251004	25m, 8 x 5mm PE tube	1
A35082644	Backboard mounted	1

Note: With 1/2" BSPM on inlet, Maric valve, no filter, CTE - 2 ppm

6.6 Chlorine Analyser Packages

6.6 Chlorine Analyser Packages



Chlorine Analyser Package

PA51002882

Part No

Description

D1CBW00601000VC1011G00EN	Monitor	1
1003203	CTE 1-mA-5 ppm	1
A04001289	2core cable	2
PA03002885	By-pass sensor holder DLG5	1
A07051045	Bracket	1
86515T	Gemu Rotameter	1
1257000Z	Flowswitch	1
PA07221061	1/2 inch to 8x5 mm PVC	2
A25251004	25m, 8 x 5mm PE tube	1
A01721802	5m, 16mm braided hose	5
A35082644	Backboard mounted	1

Note: With 1/2" BSPM on inlet, 16mm hosetail outlet, no Maric valve, no filter, CTE - 5 ppm ... for High iron / particle applications

Chlorine Analyser Package

PA51002883

Part No

Description

D1CBW00601000VC1011G00EN	Monitor	1
740685	CTE 1-mA-2 ppm	1
A04001289	2core cable	2
PA03002885	By-pass sensor holder DLG5	1
A07051045	Bracket	1
86515T	Gemu Rotameter	1
1257000Z	Flowswitch	1
PA07221061	1/2 inch to 8x5 mm PVC	2
A25251004	25m, 8 x 5mm PE tube	1
A01721802	5m, 16mm braided hose	5
A35082644	Backboard mounted	1

Note: With 1/2" BSPM on inlet, 16mm hosetail outlet, no Maric valve, no filter, CTE - 2 ppm ... for High iron / particle applications

6.7 Chlorine Analyser Packages

6.7 Chlorine Analyser Packages



diaLog CHLORINE ANALYSER PACKAGE

pH Corrected Free Residual Chlorine

PA55002903

Part No	Description	
DACA00612000010010EN	DULCOMETER diaLog Controller	1
1018369	SENSOR Dulcotest CLE 3.1-mA-2ppm	1
SP200-2330-DH	Probe pH 0-12 pH -5 To 110°C HT3 Glass	1
305030	Probe Cable	1
A04001289	Cable 2x16/0.20 Copper, grey Cover	2
PA03022502	DLG2 Probe Holder Rev.4 In-line Type	1
P3240T0235-B	Sample Bypass Filter 8x5 - 20x1.5F Maric	1
DGMA300T000	DGMA300T000 Flow Control Unit	1
PA07221061	Adaptor Assembly 1/2" BSP to 8x5 tube PVC	2
A25221801	Tubing 8x5 Pvc Soft Clear X 25m Roll	1
A35082644	Mounting Board - 500x600x12mm LDPE White	1
	Assembled and tested	

diaLog CHLORINE CONTROL PACKAGE

pH Corrected Free Chlorine

with Feed Forward Control

PA55002904

Part No	Description	
DACA00614000010010EN	DULCOMETER diaLog Controller	1
1018369	SENSOR Dulcotest CLE 3.1-mA-2ppm	1
SP200-2330-DH	Probe pH 0-12 pH -5 To 110°C HT3 Glass	1
305030	Probe Cable	1
A04001289	Cable 2x16/0.20 Copper, grey Cover	2
PA03022502	DLG2 Probe Holder Rev.4 In-line Type	1
P3240T0235-B	Sample Bypass Filter 8x5 - 20x1.5F Maric	1
DGMA300T000	DGMA300T000 Flow Control Unit	1
PA07221061	Adaptor Assembly 1/2" BSP to 8x5 tube PVC	2
A25221801	Tubing 8x5 Pvc Soft Clear X 25m Roll	1
A35082644	Mounting Board - 500x600x12mm LDPE White	1
	Assembled and tested	

6.8 ProCal Granular Calcium Hypochlorite Feeder

6.8 ProCal Granular Hypochlorite Feeder

ProCal_3240A Series Granular
Calcium Hypochlorite System
from ProMinent

ProMinent®

Description of Operation

The ProMinent ProCal series system generates a dilute Calcium Hypochlorite solution from granulated dry chemical. The granules are stored in a chamber, up to 40kg, where it is held until required.

The granules are transferred into a mixing tank where it is blended with the incoming water. The feeder is operated in manual or pulse duration mode in response to the amount of chlorine in the pool water.

Automatic acid clean is incorporated.

Suitable for pools up to 1,000,000 litres

Capacity to 4kg/hr, (adjustable).

Dimensions: 900 L x 500 W x 1170 H mm

Benefits and Features

- The ProMinent unique compact design allows the use of granular Calcium Hypochlorite as your pool chlorine source.
- Reduced OH&S requirements.
- The ProCal series comes pre-wired and pre-plumbed for easy installation.
- Interface with ProMinent controllers or other pulse duration controller provides accurate and reliable chlorine control.
- Lower TDS, when compared to liquid chlorine.
- Granular Calcium Hypochlorite is less expensive and more readily available than tablets.
- Less impact on pH.
- Automatic acid clean.



PA55023125



PA28003028

Model

Pool Size

ProCal_3240A 1,000,000 litres

Spare Parts

2HMS4

Transfer Pump

PA55023125

Feeder Assy

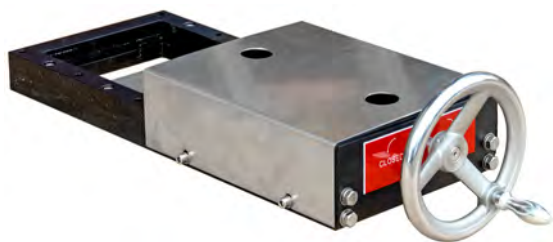
PA28003028

Vibrator and Bracket Assy

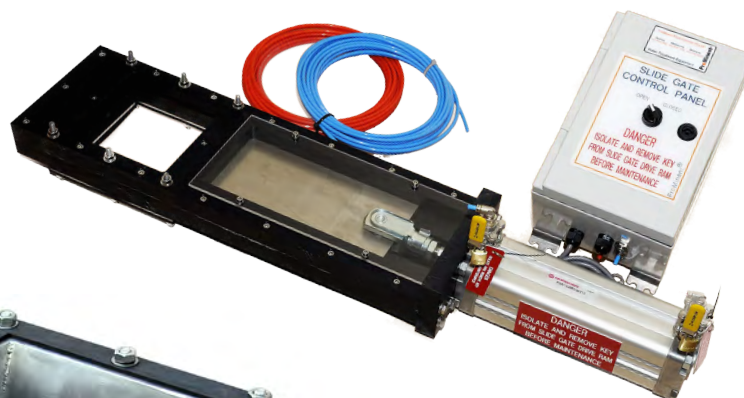


7.1 Dry Material Feeders

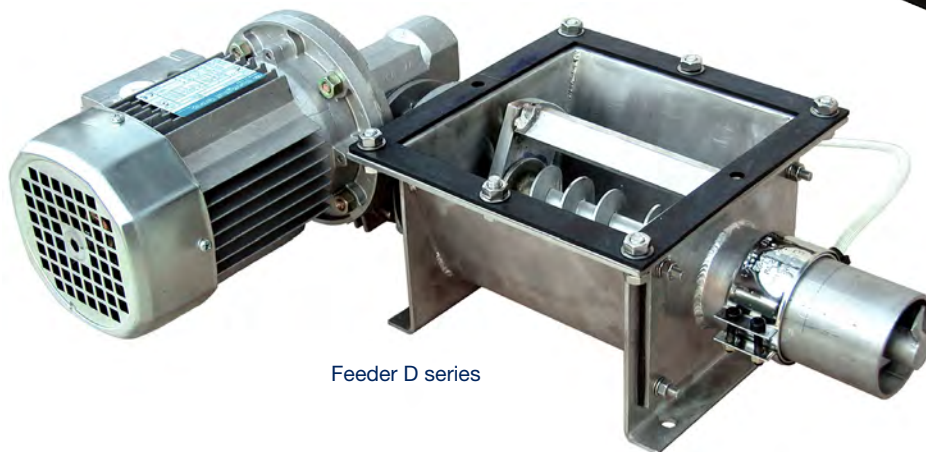
Dry Material Feeders



Manual slidegate



Pneumatic slidegate



Feeder D series

ProFeed dry material feeders can be used for any dry product in a powder or granular form.

ProFeed dry material feeders are used extensively in the water treatment and food industries, however, its application is limitless to any industry where controlled feed of dry material is required.

ProFeed consists of a 316 stainless steel body within which a feed screw and conditioning auger rotate at the same speed. The diameter of the feed screw and its speed is selected to provide the required feed rate of the product. The pitch of the feed screw varies to minimize bridging and to provide even draw down of material from the feed hopper. The conditioning auger helps condition the product prior to entering the feed screw which improves accuracy and avoids bridging.

Manual capacity adjustment can be achieved simply by turning the feeder on/off or by manual adjustment of a variable speed motor.

Automation can be achieved in a variety of ways, eg: infinite variable speed control from a process signal. Pulse duration control is also an option. AC, DC or pneumatic motors can be fitted.

Hoppers of any size can be installed above the feeder.

The entire system can be designed and constructed to suit your specific requirements.

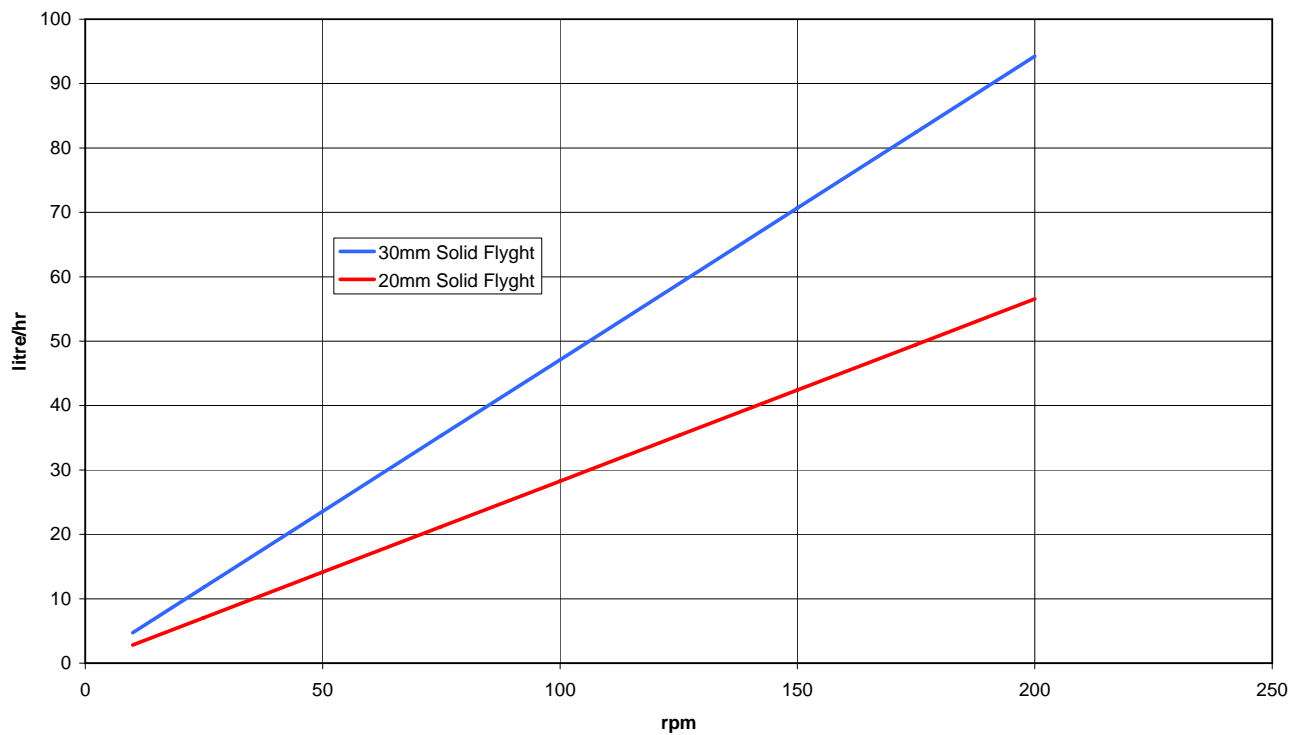
Also available:

- Manual slidegates, Pneumatic slidegates
- Crumbler
- Solution tanks 304/316 SS with floor mounting stirrers
- Wetting assemblies ie:
 - Ultra wet** for Polymer, P.A.C. etc. with hydraulic transfer.
 - Ultra spray** for dust suppression eg: fluoride, lime etc.
- **ProLoad** bag loader (304SS) with internal bag splitter and microswitch for dust collector.
- Loss of weight recording/integrating packages.
- Promix Polymer preparation systems with 2 or 3 tanks.
- Outlet spout heaters - to help eliminate caking of product in feeder spout.

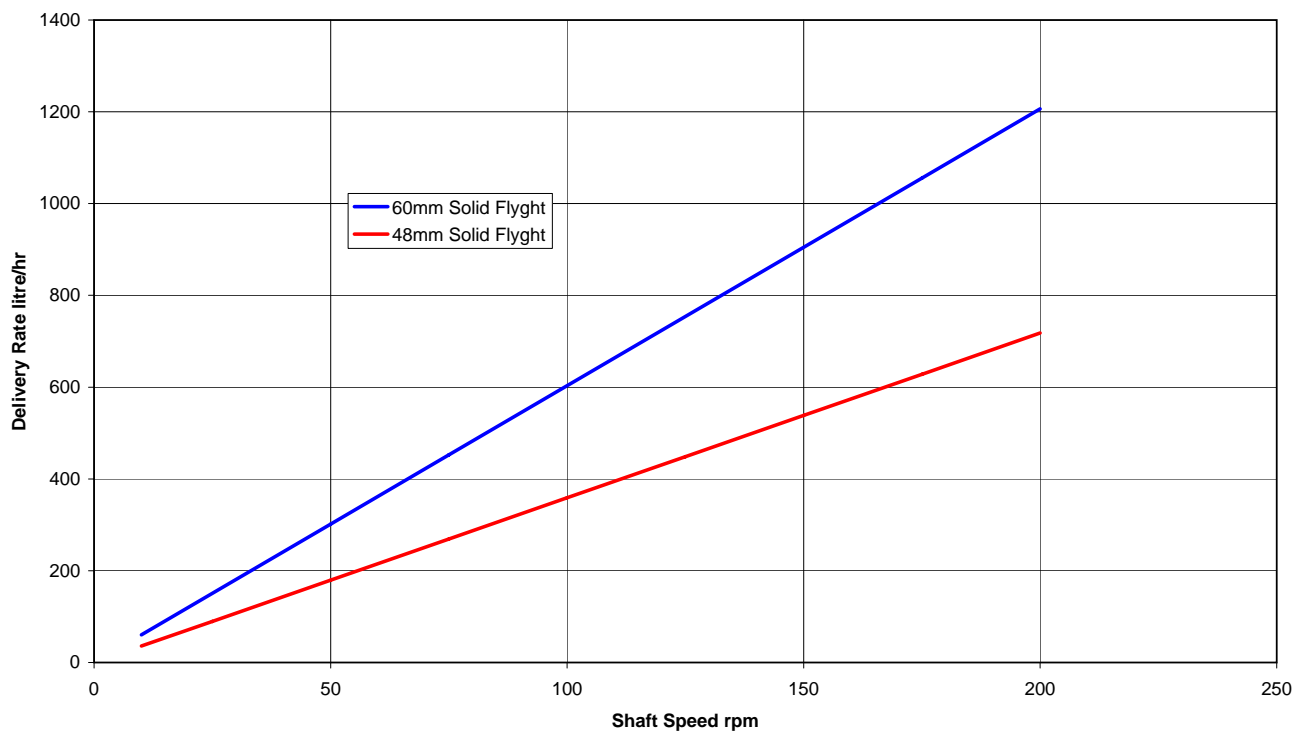
7.1 Dry Material Feeders

Dry Material Feeders

Feeder Delivery Rate vs rpm



Feeder Delivery Rate vs RPM



7.1 Dry Material Feeders

Dry Material Feeders

Series	Type	Feeder	Base Price
PF D	Small Feeder Capacity to 450 l/hr.		
PF B	Large Feeder Capacity to 1600 l/hr.		
	Screw Size		
	020 20mm	PFD020A	
	025 25mm <i>Solid Screw</i>	PFD025S	
	030 30mm	PFD030A	
	048 48mm	PFD048A	
	060 60mm	PFD060A	
	048 48mm <i>Solid Screw</i>	PFD048S	
	060 60mm <i>Solid Screw</i>	PFD060S	
	048 48mm <i>Solid Screw</i>	PFB048S	
	100 100mm } <i>Series B only Solid Screw</i>	PFB100S	
	150 150mm } <i>Series B only Solid Screw</i>	PFB150S	
	Screw		
A	Open	Options	
S	Solid 25, 48 and 60 only for D series		
X	Open Screw with Solid Insert 20 & 30 only for D series	add	
	Conditioning Arms <i>not available on B series</i>		
0	Without Arms		
1	With Arms	add	
2	With Arms for Hi-Compaction Material	add	
	Heater		
0	Without Heater	Heater add	
1	With Heater <i>for Spout 240V 30W</i>	020	
	Gearbox Ratio	030	
0007	7:1 <i>Not normally recommended</i>	048	
0010	10:1	060	
0015	15:1	100	
0020	20:1	150	
0028	28:1		
0035	35:1		
0046	46:1		
0060	60:1		
0070	70:1		
0100	100:1		
0000	Special i.e. Double Reduction		
	Motor		
A	0.18kW Standard on D Type		
B	0.37kW Standard on B up to 100		
C	0.55kW Standard on B 150		
D	0.09kW special for Double Reduction Gearbox		
X	Without Motor		
Y	Special Motor		
	Motor IP Rating & Speed		
A	IP55 4 pole <i>Standard on Series D & B</i>		
B	IP55 6 pole <i>Optional</i>	add	
C	IP56 4 pole <i>Optional</i>		
D	IP56 6 pole <i>Optional</i>		
F	DIP rated 4 pole		
Y	No Motor		
	Options		
0	None net price		
1	Mech Variator 5:1	Series D add	
2	Mech Variator 48 & 100	Series B add	
3	Mech Variator 100 & 150	Series B add	
4	AC VSD		
5	Cooling Fan for motor		
	Hopper Plate Heater 203 X 45 240V 50W		
PF	D	048	S
		1	0
		0020	A
		A	0

Example: D series, 48mm, solid screw, with arms, no heater, 20:1 gearbox ratio, standard motor, no options.

7.2 Dry Material Feeders Associated Equipment

Dry Material Feeders

We can supply complete Dry Feeder packages to order, or supply only the following components to allow you to construct your own systems or replace old with new updated systems.

- **Conversion of A-series feeder to D-Series Feeder**

PA28002708

A replacement type A drive shaft (A28041514) may be required, and requires customer to return the OLD feeder tub.

- **Hoppers**, in 304 stainless steel.

60 litre *Standard size for D series feeder with flange to take Bag-Loader*

A28042534

Hopper Dimensions	W	x	L	x	H
60 litre P.O.A.	600	x	200	x	810
125 litre P.O.A.	600	x	600	x	700
180 litre P.O.A.	680	x	680	x	754
240 litre P.O.A.	800	x	800	x	904
360 litre P.O.A.	900	x	900	x	960
500 litre P.O.A.	1000	x	1000	x	1250
over 500 litre consult Sydney office					

- **Bag-Loaders**, in 304 stainless steel.

800 mm high, stainless steel *for D series feeder*

A28002282

1000 mm high, stainless steel *for D series feeder*

A28002283

Front pull bag splitting option for above

(This is for VERY limited applications. See Sydney office for approval)

- **Wetting Cone**, in 304 stainless steel, eductor assemblies for Poly and PAC.

PA28002199

Eductors are available in the following sizes *(for more information consult Sydney Office)*

The eductors below are suitable for injection against a pressure up to 1 bar, when provided with a motive pressure of 4.5 bar PVC Pipe size 40 mm.

1000 l/hr *Note: an additional wash water of 480 l/hr is required for Wetting Cone*

62EJECTOR

2000 l/hr *Note: an additional wash water of 660 l/hr is required for Wetting Cone*

63EJECTOR

4000 l/hr *Note: an additional wash water of 660 l/hr is required for Wetting Cone*

65EJECTOR

A wetting cone overflow adaptor is available.

- **Slide Gates**, to suit D-series Feeder series, with handwheel

PA28003205

- **Slide Gates**, to suit D-series Feeder series, with pneumatic cylinder

PA2800XXXX

Note: Slide gates are intended for **OCCASIONAL USE ONLY** i.e. for maintenance.

For everyday closure we suggest the use of spout closer.

For more information contact Sydney office

- **Bulky-Bag Loading systems** (for PAC etc)

- **Crumblers**, in stainless steel

PA28042565

- **Solution Tanks**, in stainless steel and PE

- **Level switches**, for Hoppers and Solution tanks

- **Dust Extraction Systems**

- **Water Softeners**

For other PRICES contact Sydney Office:

Dry Material Feeders



Bulky-Bag System



Vacuum Transfer Unit



Dry Materials Feeder

PA28002199 Wetting Cone Assembly

*Note: Maric valve A09002681 (4000 l/hr)
is NOT included in assy.*



Poly System



Bag-Loader



Fluoride System

Dry Material Feeders

TOMAL T182-690



Should you have a problem sourcing spares for your A-690 feeder you may wish to consider replacing it with our TOMAL T182-690 package complete with hopper and supporting frame, built to the same overall dimensions to provide a simple changeover solution.

The TOMAL T182-690 package will be supported by your existing solution tank and can be easily adapted to accommodate your existing stirrer mounting.

TOMAL Type 182 feeder with twin overlapping and counter-rotating feed screws designed to provide maximum accuracy whilst minimizing the potential for arching and blocking.

TOMAL T182-690 capacities:

- up to 200 kg/hr for Soda Ash
- up to 90 kg/hr for Hydrated Lime
- equivalent feed rates for other chemicals

Note: System should be set to run at 70Hz, for BONFIGLIOLI Active Series VF Drives see section 3

Feeder T182-690	\$
Fan cooled 415 volt motor	\$
Feeder Spout Closer	\$
Stirrer support bracket	\$