

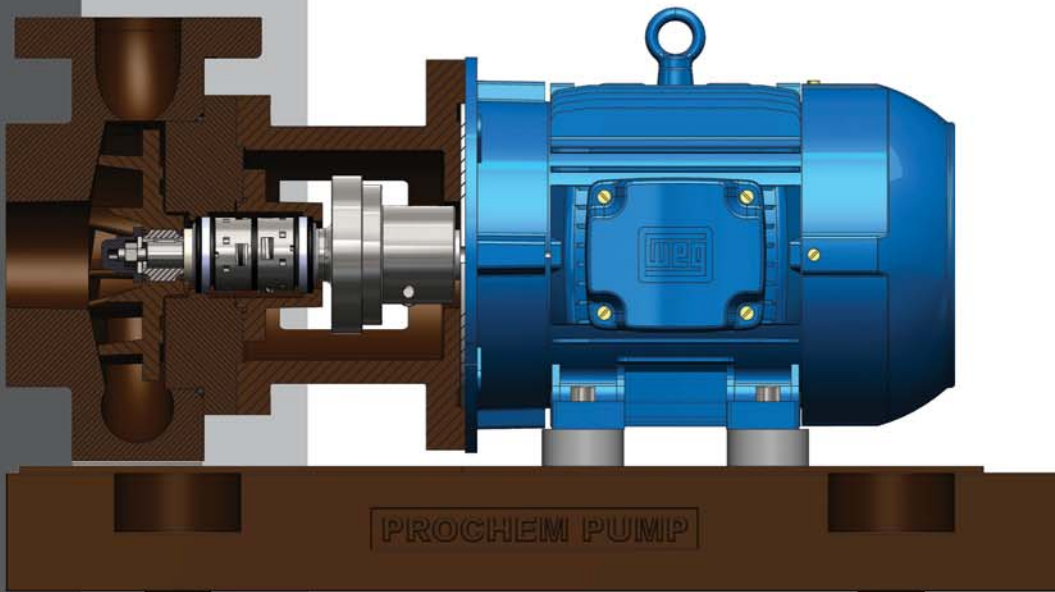


**CLOSE COUPLED  
MONOBLOCK TO**

**DIN | 24255  
24256**

**NO. 1**

**in chemical handling corrosion resistant**  
**PUMP TECHNOLOGY**



#### CONSTRUCTION

Prochem Pumps of the HCC Mark II Series are of end suction back pull-out design. All components coming into contact with the fluid handled are made from synthetic thermosetting corrosion and wear resistant materials.

#### APPLICATION

Prochem Pumps are utilised wherever conventional materials can only offer limited service life. The field of application ranges from general water supply to transfer of highly corrosive chemicals. Prochem Pumps have proven successful even under the most adverse conditions.

#### MATERIALS

Long proven experience with synthetic materials in chemical handling and strict observance of design principles, ensure the end user special advantages of utilising the Prochem Pump range of pumps. Synthetic thermosetting resin systems CPR, BR, BL, BX and BZ are reinforced with various fillers. They offer high strength and stability between operating temperatures of  $-20^{\circ}\text{C}$  to  $+120^{\circ}\text{C}$ , maintaining low vibration characteristics. They provide excellent resistance to corrosion over a wide spectrum of aggressive chemicals and solvents across the pH scale. They also offer very good erosion resistance to a variety of chemical related slurries. Furthermore, the systems used are relatively light weight, are non sparking, non magnetic and non galling. They do not support bacteria growth and can be steam sterilised. Due to the single material concept and simple but robust design and the many other inherent features, Prochem pumps will generally out price, out perform and out last many if not all major competitors supplying lined or unlined pumps in Engineered Plastics such as CPVC, PVC, PE, PVDF, ECTFE, FEP, PTFE and PFA, also rubber lined and coated pumps. On many occasions, Prochem Pumps are supplied where exotic alloy pumps manufactured in Hastelloy, Titanium and other exotic materials were conventionally being utilised involving high capital and replacement costs.

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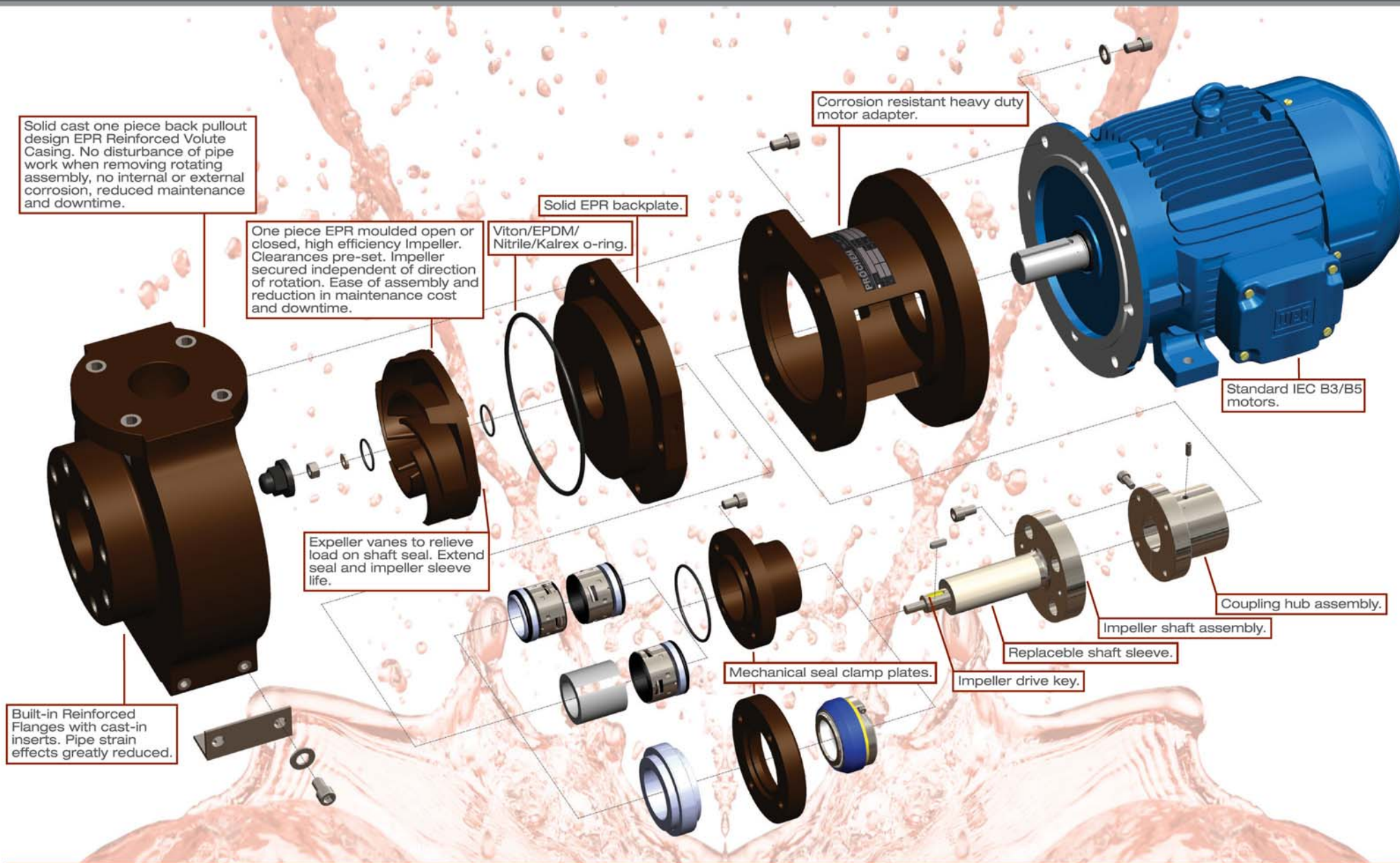
**PRESENT INDUSTRIES SERVED**

- Steel and Wire Manufacturing
- Paper and Pulp Manufacturing
- Water and Sewerage Treatment
- Metal Finishing
- Chemical Manufacture and Processing
- Fume Scrubbing
- Desalination
- Photographic Industry
- Brewing and Distilling
- Phamaceutical Manufacturing and Processing
- Food and Beverage Manufacturing and Processing
- Electronic (PC Manufacture)
- Precious Metal Refining
- Textile Manufacture and Process
- Agriculture Plant and Process
- Perfumaries and Cosmetics
- Aquariums
- Aquaculture
- Fertiliser Manufacturing

**ABOUT QUALITY AND SERVICE**

Prochem Pumps are rigidly inspected and tested at each stage of manufacture using the most up to date equipment available to ensure a quality product at all times. Prochem Pumps and it's staff are at your service constantly. In our book, service goes without saying, and not just as an after thought.

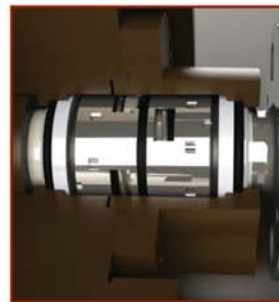
Prochem Pumps are also made in a variety of alloys for specific applications where the standard non metallic materials generally used have limited life. Refer to our technical department for



**MECHANICAL SHAFT SEALING ARRANGEMENTS**

The reliability in operation of a pump depends to a large degree on the correct choice of shaft seal. To meet the requirements of the vast number of applications, Prochem Pumps are fitted with High-Grade single/double-acting Standard Mechanical Seals, made by well-known major manufacturers. A wide variety of sealing materials are available to offer you the correct choice for your application. **CLOSED LOOP SEALANT SYSTEMS & CARTRIDGE SEAL ARRANGEMENTS AVAILABLE ON REQUEST.**

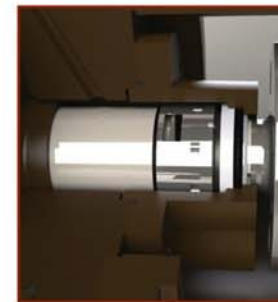
**DOUBLE-ACTION MECHANICAL SHAFT SEAL**  
 Application: Generally used where products pumped contain solids or tend to crystallise, or have limited lubricating properties. Flushing is normally by means of external water supply or other compatible fluid. They can also be used in systems where dry running can occur.



**SINGLE-ACTION EXTERNAL MECHANICAL SHAFT SEAL WITH PTFE BELLOWS**  
 Application: Generally used where products pumped are semi to highly corrosive and relatively clean. They should be utilised where dry running cannot occur.



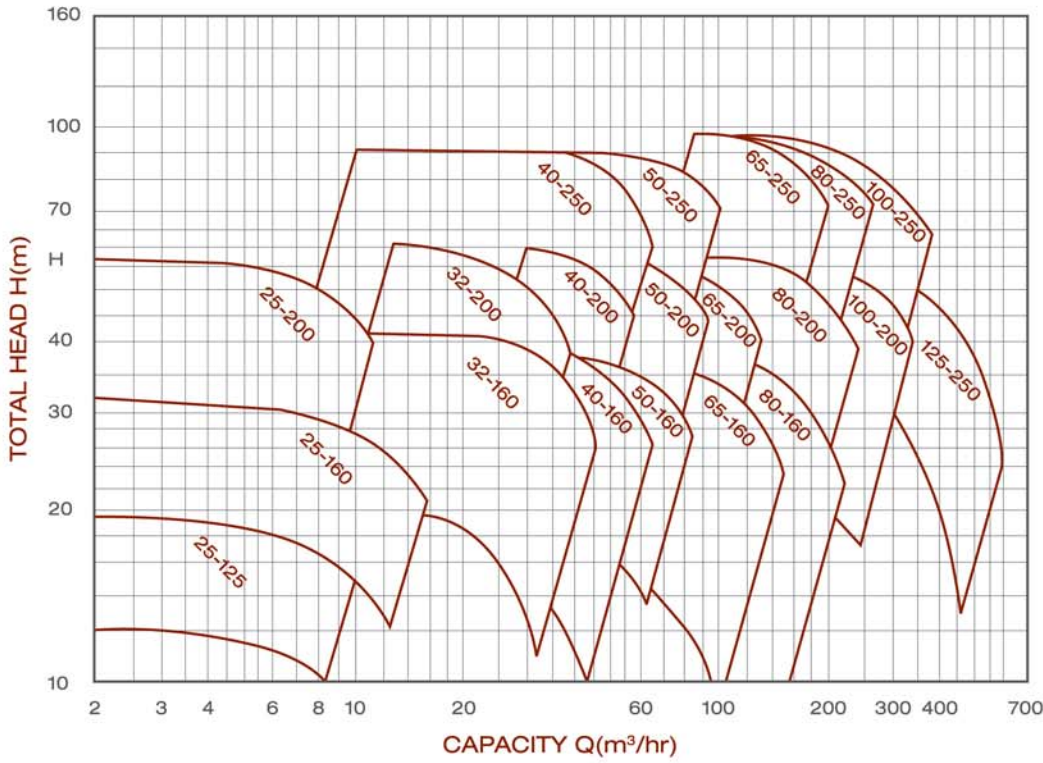
**SINGLE-ACTION NON-RELIEVED INTERNAL MECHANICAL SHAFT SEAL**  
 Application: Generally used where products pumped are chemical related slurries, and no external flushing can be accommodated, due to dilution or contamination. Flushing is by means of product recirculation.



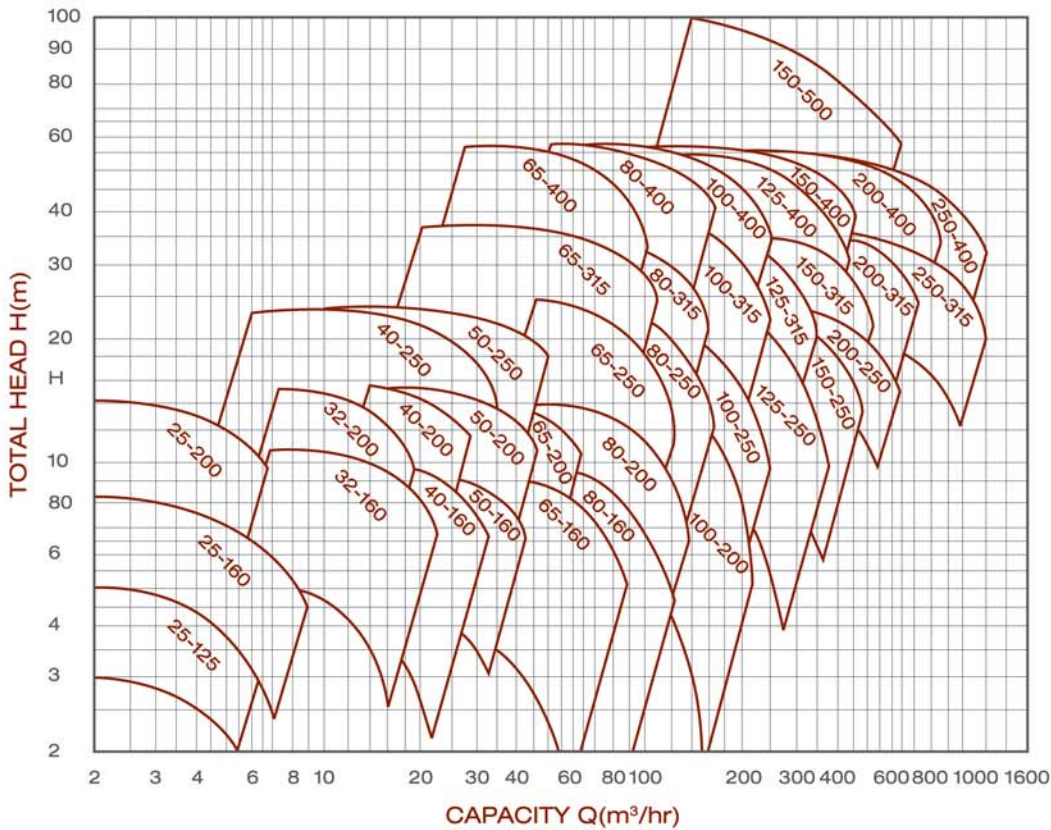
**WHEN YOU BUY A PROCHEM PUMP YOU CAN HAVE YOUR SOLUTION & PUMP IT!**

CURVES FOR STANDARDISED CRP HCC PUMPS MARK II

HYDRAULIC PERFORMANCE 2900 rpm



HYDRAULIC PERFORMANCE 1450 rpm



No. 1

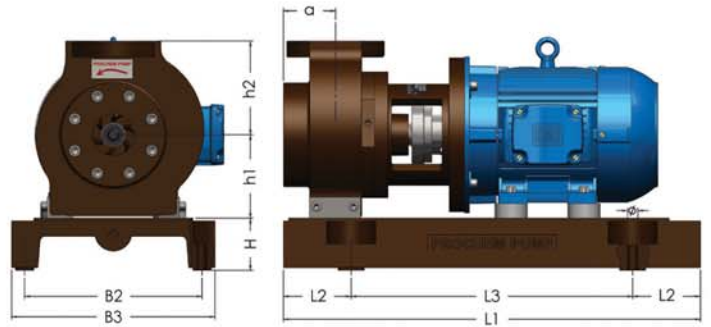
in chemical handling corrosion resistant  
**PUMP TECHNOLOGY**

**TABLE 1**

General lead dimensions only. Certified drawings available on request.

Pump type	Frame size	NWs	NWd	a	h1	h2
25-125	80/90	40	25	68	110	144
25-160	80/100	25	25	63	112	160
25-200	100/132	40	25	80	160	180
32-160	100/132	50	32	80	132	160
32-250	100/160	50	32	80	160	180
32-250	132/180	50	32	100	180	225
40-160	100/132	65	40	80	132	160
40-200	100/160	65	40	100	160	180
40-250	132/180	65	40	100	180	225
40-315	132/180	65	40	125	200	250
50-160	100/132	65	50	100	160	180
50-200	100/132	80	50	100	160	180
50-250	132/200	80	50	100	180	225
50-315	160/180	80	50	125	225	280
65-160	100/160	80	65	100	160	200
65-200	100/160	80	65	100	180	225
65-250	132/200	80	65	100	200	250
65-315	132/200	80	65	125	225	280
65-400	132/200	80	65	125	250	355
80-160	132/160	100	80	125	180	225
80-200	132/160	100	80	125	180	250
80-250	132/180	100	80	125	200	280
80-315	132/200	100	80	125	250	315
80-400	132/200	100	80	125	280	355
100-200	132/180	125	100	125	200	280
100-250	132/200	125	100	140	225	280
100-315	160/250	125	100	140	250	315
100-400	160/250	125	100	140	280	355
125-250	160/250	150	125	140	250	355
125-315	160/250	150	125	140	280	355
125-400	160/250	150	125	140	315	400
150-250	160/250	200	150	160	280	375
150-315	160/250	200	150	160	280	400
150-400	160/250	200	150	160	315	450
200-250	160/250	250	200	180	355	425
200-315	160/250	250	200	180	355	450
200-400	160/250	250	200	180	355	500
250-315	160/250	300	250	225	400	560
250-400	160/250	300	250	225	375	625

Motor frame sizes shown indicate minimum and maximum allowable for Close Coupled designs only. Special size pumps also available on request. POA

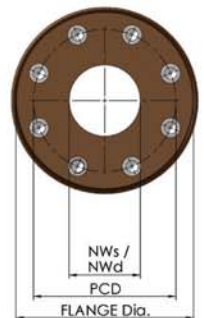


**BASE DIMENSIONS FOR PROCHEM CLOSE COUPLED PUMPS MARK II**

Base plate No.	1	2	3	4	5	6	7	8
L1	500	650	800	900	1000	1120	1250	1400
L2	130	130	130	150	170	190	205	230
L3	240	390	540	600	660	740	840	940
a	45	50	50	50	60	60	70	70
B1	210	260	300	340	380	430	480	530
B2	250	300	340	400	440	490	550	600
B3	280	350	390	450	490	540	610	660
H max	85	100	100	100	100	120	120	120
Ø for holddown	12	14	14	14	18	22	22	22
Kg	10	16	24	30	36	53	68	90

**FLANGE DETAILS** In accordance with BS4504/16

NWs NWd	Flange Dia.	PCD 650	Hole Dia.	No. of Holes	Bolt Dia.
25	115	85	14	4	M12
32	140	100	18	4	M16
40	150	110	18	4	M16
50	165	125	18	4	M16
65	185	145	18	4	M16
80	200	160	18	8	M16
100	220	180	18	8	M16
125	250	210	18	8	M16
150	285	240	22	8	M20
200	340	295	22	12	M20
250	405	355	26	12	M24
300	460	410	26	12	M24



Alternative flange configurations and adapters also available on request.

**PROCHEM**  
CHEMICAL PUMP MANUFACTURERS

PROCHEM PUMP MANUFACTURING C.C.  
Manufacturers & suppliers of chemical handling & allied pumping equipment since 1987.

No. 11 Spartan Rd, Aeroport, Spartan Ext. 20, Kempton Park 1619, RSA  
P.O. Box 10892, Aston Manor 1630, RSA

Tel: (+27 11) 392-1800 Fax: (+27 11) 392-1001  
Web: www.prochempump.com Email: info@prochempump.co.za

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