



CHEMITROL

CHEMITROL METERING PUMP

GENERAL INFORMATION

These pumps are of the high pressure, low volume reciprocating plunger, positive displacement type, ideal for use in feeding chemicals to hot water and steam boilers, as well as air conditioning systems. These pumps are designed for trouble free operation where a controlled volume of chemical treatment is required.

Units have undergone experience of 20 years of field installation and all are equipped with relief valves for positive protection at all times.

CONSTRUCTION

All standard pumps are equipped with double stainless steel check valve and valve balls. The piston is ground and polished stainless steel; easily accessible double chevron packing is provided, plus a grease ring which can be readily changed to a water or oil seal for handling crystallizing liquids. Pump cylinders are furnished in steel unless otherwise specified. Various sizes and types of pump cylinders, as well as pistons, are interchangeable on standard pumps and are available from stock.

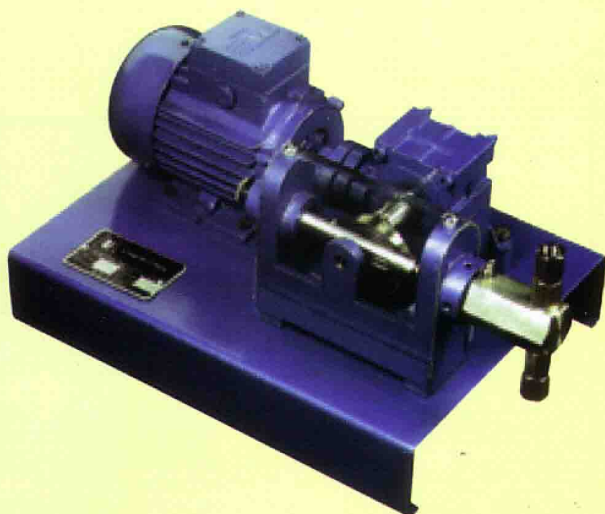
Standard pumps are furnished with a 1/2 H.P., 415 volt, 50 cycle TEFC motor and a reduction gear box with a 30 r.p.m. or 60 r.p.m. output as standard. Single phase 230 volts, 50 cycle are also available upon request. Pumps are mounted on a heavy steel baseplate. Special electrical characteristics for motor available upon request. The pumps can be furnished with multiple heads.

The attention and maintenance required on the pumps is extremely low due to a minimum wear achieved by special design principles. Also, the drive mechanism runs in oil.

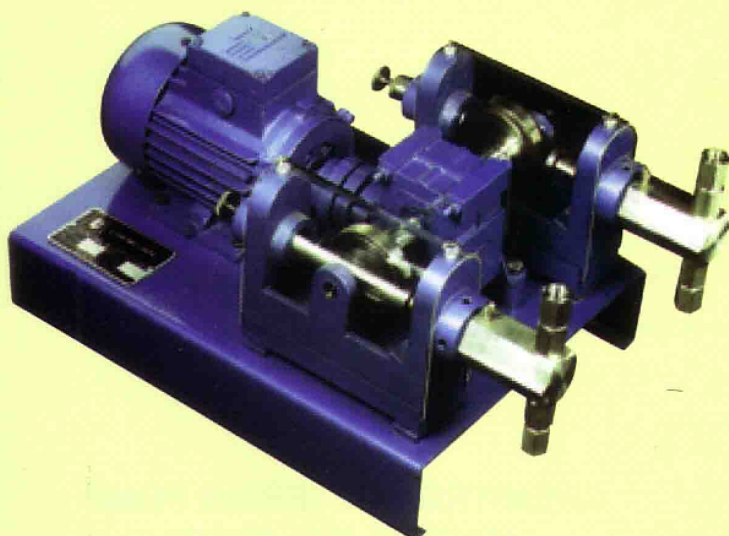
The pumps can be quickly and easily installed by making a few simple plumbing and electrical connection. Instructions are packed with the pump regarding proper lubrication and greasing.

STROKE ADJUSTMENT

The Stroke can be simply and quickly adjusted by loosening nut and turning head screw to the desired length stroke; then, tighten nut against slide. The stroke adjustment 0 to maximum capacity may be performed while pump is running or when pump is shut down.



V-5 SIMPLEX Fig 1



V-5 DUPLEX Fig 2

PUMP SIZE AND CAPACITIES (Based upon viscosity of water)

SIMPLEX MODELS

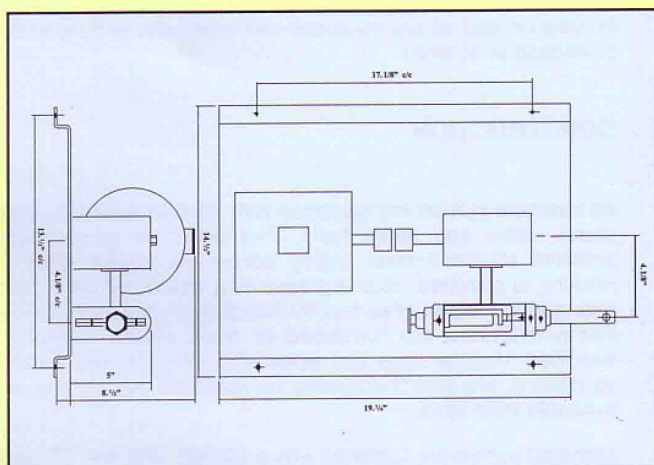
Model Type	Stroking Rate	Piston Dia.	Litres per Hour Max	Gals. Per Hour Max
V5-1860	60	2.54mm 1"	64.35	17
V5-1830	30	2.54mm 1"	32.18	8.5
V5-1560 (Standard)*	60	1.59mm 5/8"	23.47	6.20
V5-1530	30	1.59mm 5/8"	11.73	3.10
V5-1460	60	1.27mm 1/2"	12.49	3.30
V5-1430	30	1.27mm 1/2"	6.25	1.65
V5-1360	60	0.95mm 3/8"	6.13	1.62
V5-1330	30	0.95mm 3/8"	3.07	0.81
V5-1260	60	0.64mm 1/4"	3.79	1.00
V5-1230	30	0.64mm 1/4"	1.89	0.50

DUPLEX MODELS

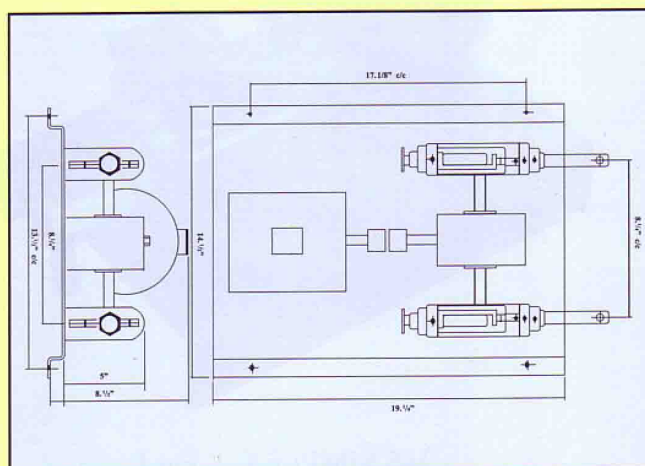
Model Type	Stroking Rate	Piston Dia.	Litres per Hour Max	Gals. Per Hour Max
V5-2860	60	2.54mm 1"	128.70	34**
V5-2830	30	2.54mm 1"	64.35	17**
V5-2560 (Standard)*	60	1.59mm 5/8"	46.94	12.40**
V5-2530	30	1.59mm 5/8"	23.47	6.20**
V5-2560	60	1.27mm 1/2"	14.98	6.60**
V5-2430	30	1.27mm 1/2"	12.49	3.3**
V5-2360	60	0.95mm 3/8"	12.26	3.24**
V5-2330	30	0.95mm 3/8"	6.51	1.72**
V5-2260	60	0.64mm 1/4"	7.57	2.00**
V5-2230	30	0.64mm 1/4"	3.79	1.00**

* Unless otherwise specified, Model V5-Type 1560 pumps will be shipped for Simplex and Model V5-Type 2560 for Duplex.

** For both pumping heads.



V-5 SIMPLEX Fig1



V-5 DUPLEX Fig1

QUOTATION AND ORDERING INFORMATION

Please provide the following data so that we can recommend the correct pump for your specific application.

1. Type of liquid to be pumped
2. Pumping capacities, maximum and normal, in gallons per hour. (Refer to Selection Chart.)
3. Discharge pressure required.
4. Motor Characteristics required.
5. Optional Equipment desired.
6. Special conditions or modifications required, if any.



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**CHEMITROL METERING PUMP
MADE IN MALAYSIA**

ARITA VALVES MPG, SDN. BHD.

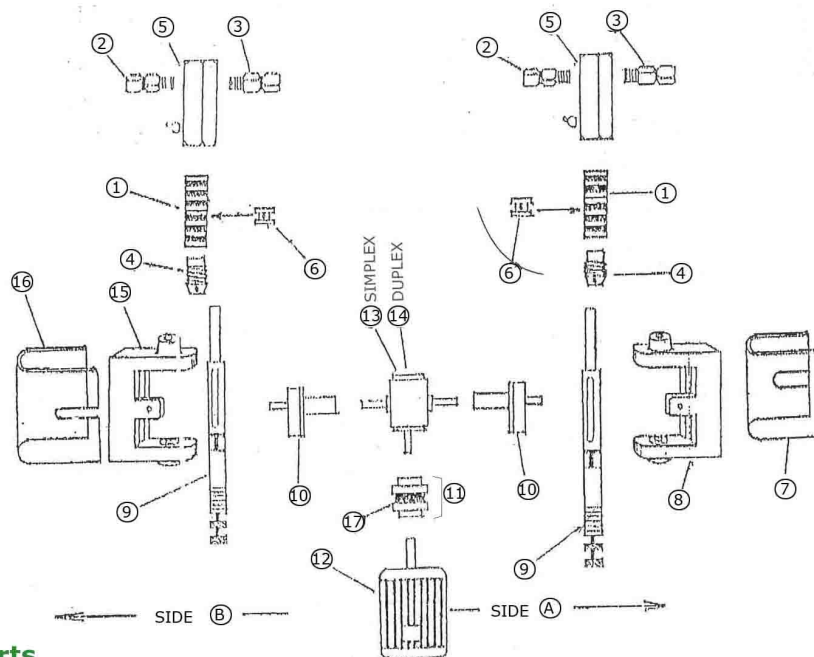
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UNIMECH GROUP, MALAYSIA

CHEMITROL CHEMICAL METERING PUMP

Stock Code : MWC02-0001 SIMPLEX CHEMICAL METERING PUMP V5-1560 - 6 GAL/HR, 300 PSI
MWC02-0002 DUPLEX CHEMICAL METERING PUMP V5-2560 - 6 X 2 GAL/HR, 300 PSI



Pump Spare Parts

No	PART STOCK CODE	DESCRIPTION
1	MWC03-0001	CHEMICAL PUMP SEAL SET (V-PACKING)
2	MWC03-0002	1/4" SS DISCHARGE CHECK VALVE
3	MWC03-0003	1/4" SS SUCTION CHECK VALVE
4	MWC03-0015	NYLON COMPRESSING NUT
5	MWC03-0005	1.3/4" S304 HEX. PISTON HEAD ASSEMBLY
6	MWC03-0016	NYLON LANTERN RING
7	MWC03-0004	PLACTIC COVER FOR SIMPLEX
8	MWC03-0014	ALUMINIUM BEARING BLOCK (SIMPLEX)
9	MWC03-0006	5/8" SS PISTON SLIDE ASSEMBLY
10	MWC03-0010	BEARING COMPLETE WITH WORK
11	MWC03-0009	COUPLING COMPLETE WITH WORK
12	MWC03-0011	MOTOR 1/2 HP / 415V
13	MWC03-0012	GEAR BOX FOR SIMPLEX
14	MWC03-0013	GEAR BOX FOR DUPLEX
15	MWC03-0014D	ALUMINIUM BEARING BLOCK (DUPLEX)
16	MWC03-0004D	PLASTIC COVER FOR DUPLEX
17	MWC03-0017	COUPLING RUBBER INSERT

Other Fittings :

PVC Foot Valve
Solution Tank (PE) 2.5 gall.
Tubing 3/8" (per meter)
Brass Male Tube Connector

Note :

Items (14) (15) (16) only apply to side 'B' of Duplex Pump

The contents of this literature are for informative purposes only. Unimech is not responsible for suitability or compatibility of these products in relation to system requirement. For specific requirements, consult Unimech or its distributors. Unimech reserves the right to change or modify product design without prior notice.

Our Ref. : 11/22