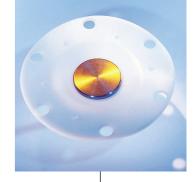
Hydro/ 2 and Hydro/ 3 motor-driven metering pumps from ProMinent.

HYDRAULIC SOLUTIONS FOR HIGH PRESSURE APPLICATIONS.



HIGH PRESSURE



ProMinent

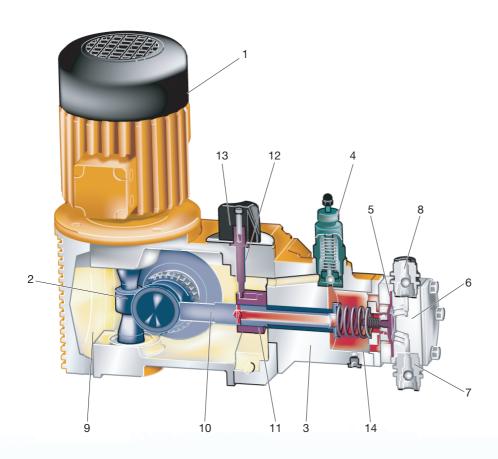
HYDRO/ 2 AND HYDRO/ 3: METERING WITH ASSURANCE.

High degree of functionality and long operating life:
low maintenance and precision hydraulic controller.

Durable diaphragm and long term metering accuracy.



HYDRAULIC CONTROL: "OILING THE WHEELS" FOR A FRICTION-FREE PROCESS.

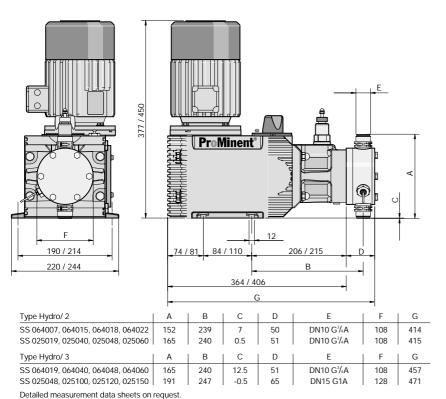


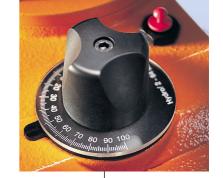
Unlike mechanically coupled diaphragm metering pumps, the Hydro's power end, moving pistons and metering diaphragms are not mechanically linked. The motor power is transmitted via a camshaft to a hollow piston and the metering diaphragm and the pistons are hydraulically coupled.

Control borings in the pistons close according to the control disc setting. Settings for the volume of hydraulic fluid displaced by the pistons – and thereby the metering stroke – are linear and continuous from 0 to 100 %.

A spring drives the piston back to its original position after the discharge stroke, and triggers the priming stroke. An integrated bypass valve protects the pump from any damage that could be caused by excess pressure in the hydraulic end.

- 1 Motor
- 2 Power end
- 3 Hydraulic end
- 4 By-pass valve
- 5 Metering diaphram
- 6 Liquid end
- 7 Priming valve
- 8 Discharge valve
- 9 Oil
- 10 Piston
- 11 Controller recorder
- 12 Adjuster
- 13 Adjusting knob
- 14 Piston spring





betailed medsarement data sheets of request

UNDER PRESSURE

Choose between two capacity classes.

Hydro/ 2: 60 I/h at 25 bar or 22 I/h at 64 bar.

Hydro/ 3: 150 I/h at 25 bar or 60 I/h at 64 bar.

Their broad capacity

ranges and safety
features make Hydro the
first choice for chemical
and petrochemical
industry processes, and
for many other industrial
production systems

where safety is the deciding factor. The Hydro is a far safer pump than mechanical alternatives. Hydro metering pumps can be fitted with PVDF liquid ends for

metering highly corrosive chemicals in the pressure range up to 16 bar.

	Operating at 50 Hz Feed rate at maximum back pressure		Max. stroke rate	Suction lift	Admissible priming pressure suction side	Connection suction/ discharge side	Shipping weight	
Pump type Hydro/ 2	bar	l/h	ml/ stroke	strokes/ min.	mwg	bar	inches - DN	kg
064007	64	7	2	60	3	1	³ / ₄ – 10	31
064015	64	15	2	125	3	1	³ / ₄ – 10	31
064018	64	18	2	150	3	1	³ / ₄ – 10	31
064022	64	22	2	187	3	1	³ / ₄ – 10	31
025019	25	19	5.3	60	3	1	³ / ₄ – 10	31
025040	25	40	5.3	125	3	1	³ / ₄ – 10	31
025048	25	48	5.3	150	3	1	³ / ₄ – 10	31
025060	25	60	5.3	187	3	1	³ / ₄ – 10	31
Hydro/ 3								
064019	64	19	5.3	60	3	1	³ / ₄ – 10	41
064040	64	40	5.3	125	3	1	³ / ₄ – 10	41
064048	64	48	5.3	150	3	1	³ / ₄ – 10	41
064060	64	60	5.3	187	3	1	³ / ₄ – 10	41
025048	25	48	13.4	60	3	1	1 – 15	41
025100	25	100	13.4	125	3	1	1 – 15	41
025120	25	120	13.4	150	3	1	1 – 15	41
025150	25	150	13.4	187	3	1	1 – 15	41

PVDF version, maximum pressure 16 bar.

SERIAL SUCCESS: PROMINENT® MOTOR-DRIVEN DIAPHRAGM METERING PUMPS



ProMinent® alpha Capacity ran

Capacity range: up to 10 bar up to 21 l/h



ProMinent® Vario

Capacity range: up to 12 bar up to 144 l/h



ProMinent® Sigma HM

Capacity range: up to 12 bar up to 420 l/h



ProMinent® Sigma/ 3

Capacity range: up to 12 bar up to 1030 l/h



ProMinent® Makro TZ HM/HMH

Capacity range: up to 16 bar up to 2500 l/h





PROMINENT® MOTOR-DRIVEN DIAPHRAGM PISTON PUMPS



ProMinent® Sigma HK

Capacity range: up to 320 bar up to 76 l/h



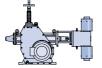
ProMinent® Meta HK

Capacity range: up to 240 bar up to 60 l/h



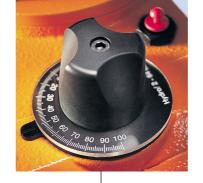
ProMinent® Makro TZ HK

Capacity range: up to 320 bar up to 1141 l/h



ProMinent® Makro/ 5 Capacity range

Capacity range: up to 320 bar up to 6000 l/h



SURE

	Liquid end version		
Materials in contact with chemicals	PVT	SST	
Liquid end	PVDF*	Stainless steel 1.4571	
Suction/ discharge connector	PVDF*	Stainless steel 1.4581	
Seals	PTFE	PTFE	
Valve balls	Ceramic	Stainless steel 1.4401	
Valve seat	PTFE	PTFE	

^{*}Polyvinylidenefluoride



The legendary ProMinent® reliability is now available for metering against high back pressures. The ProMinent® Hydro/ 2 and Hydro/ 3 are newly developed and, naturally, field-tested motor-driven

rate of up to 150 l/h. Each incorporates a full range of uncompromising safety features, a feed rate that is barely effected by pressure levels and outstanding reproducibility of ±1 %. And all these

The bypass valve in the hydraulic end prevents damage in the event of pressure overload. And last but not least, the triple-layer safety diaphragm signals the rupture of even one of the

PRESSURE POINT





metering pumps with hydraulic power transmission. The advanced development and functionality of these pumps provides total assurance in the pressure range of up to 64 bar and at a feed features are guaranteed for the operating life of every pump.

Safety is the top priority – both in the function principle and in the individual component assemblies. For instance, a blockage on the liquid side cannot damage the pump because the hydraulic piston is not attached to the cam.

layers – effectively
preventing hydraulic fluid
from entering the
metering chemical.



PROMINENT EXPERIENCE HYDRO'S WORLD-WIDE COMPANION.



ProMinent service – sound advice in all situations

You can rely on the Hydro pump series naturally on

expert advice and care before and during installation, and design assistance when tackling new fluid control applications.

In addition, ProMinent is highly accessible. We are

So you have made two sound choices: firstly in the Hydro/ 2 and Hydro/ 3, and secondly in the service team that will help you produce your process system both safely and economically.

PRESSURE TIGHT

a day-to-day basis –
ProMinent's high quality
standards give you the
vital security you require
when carrying out
commercial processes.
Over and above that
security, however, we
offer more:

represented in all the important industrial centres world-wide. Our consultants and technicians can be on site rapidly to provide technical service, regular maintenance, modification and retrofitting. Their accessibility and your satisfaction are the prime concerns of our specialists.



Comprehensive accessories make Hydro universally applicable



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