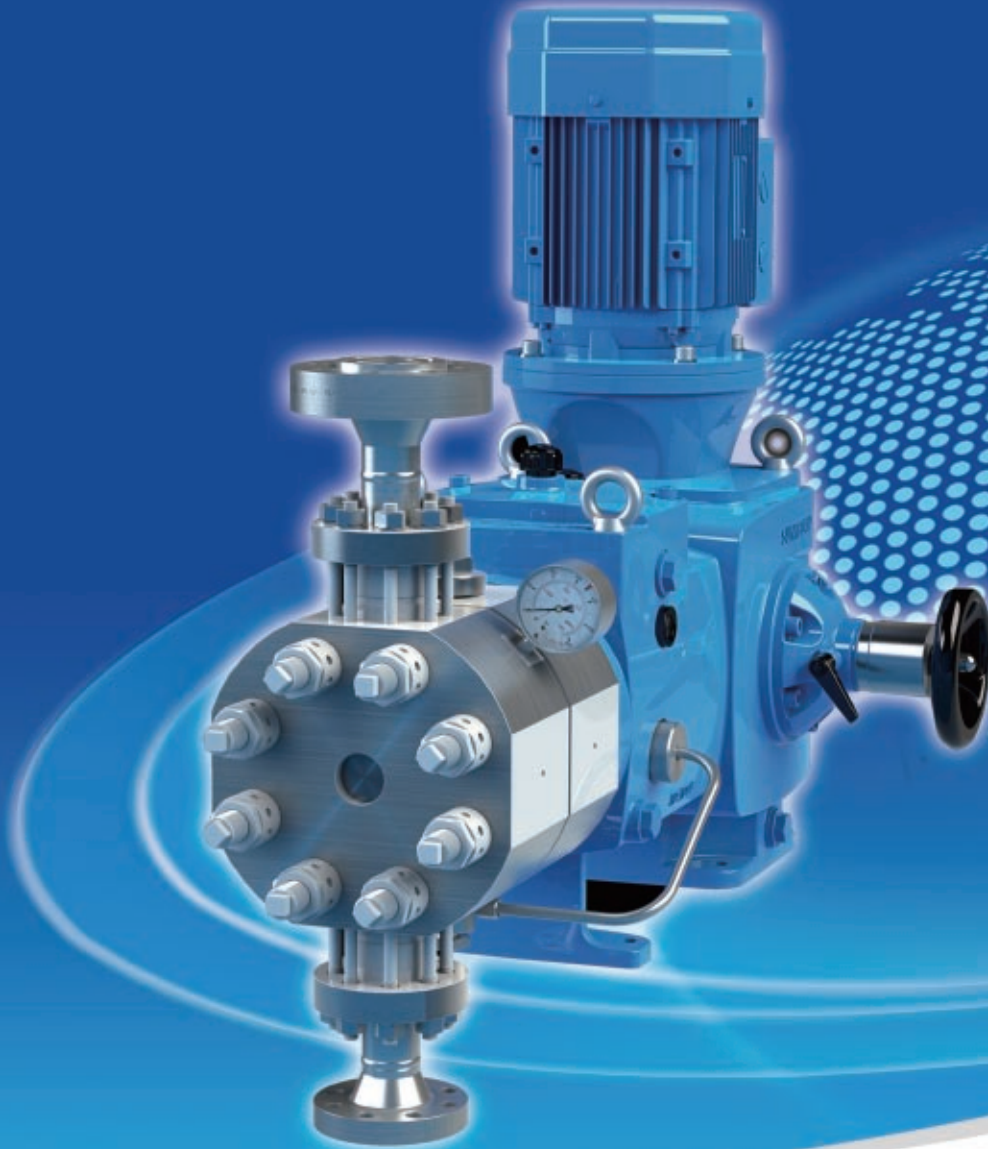
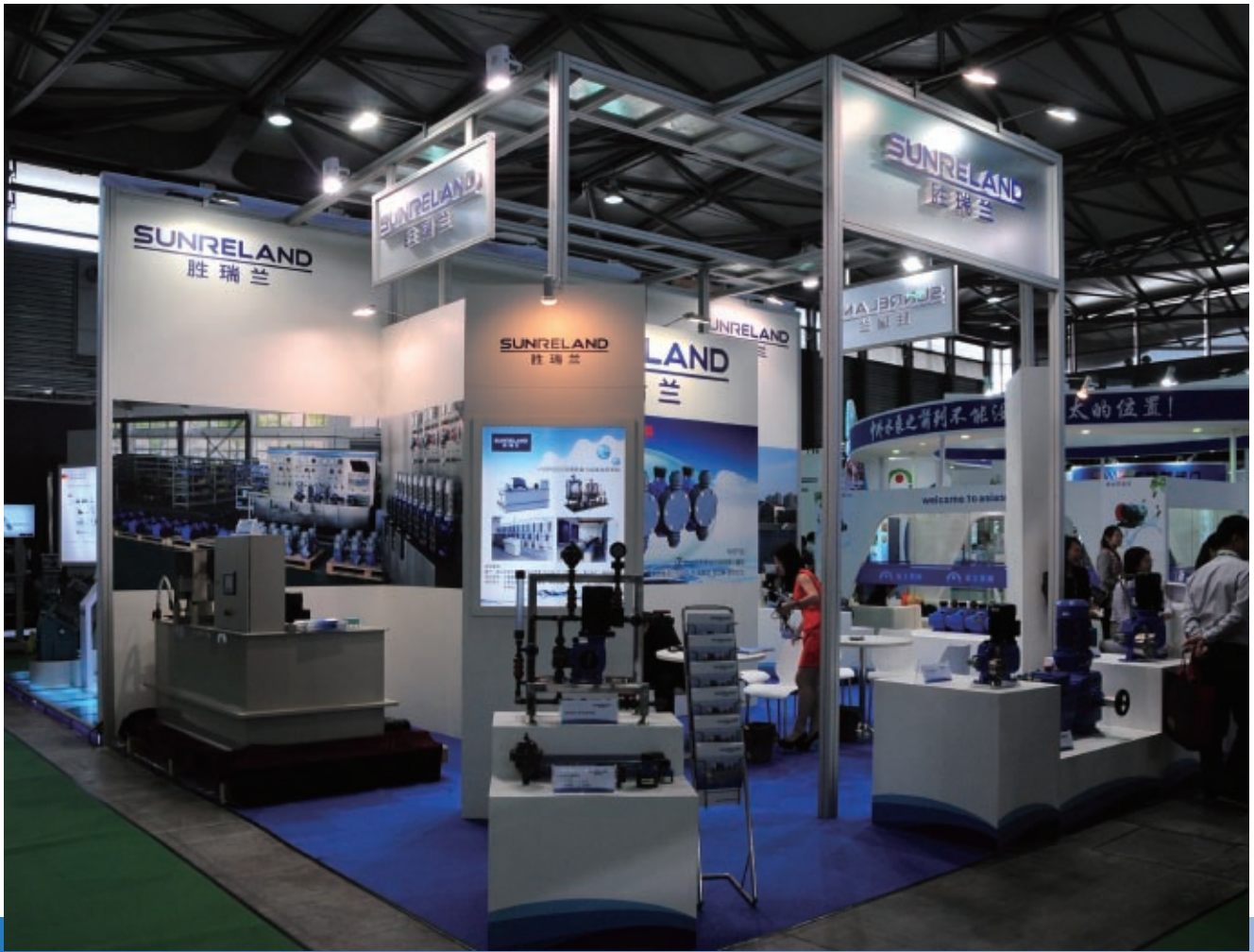


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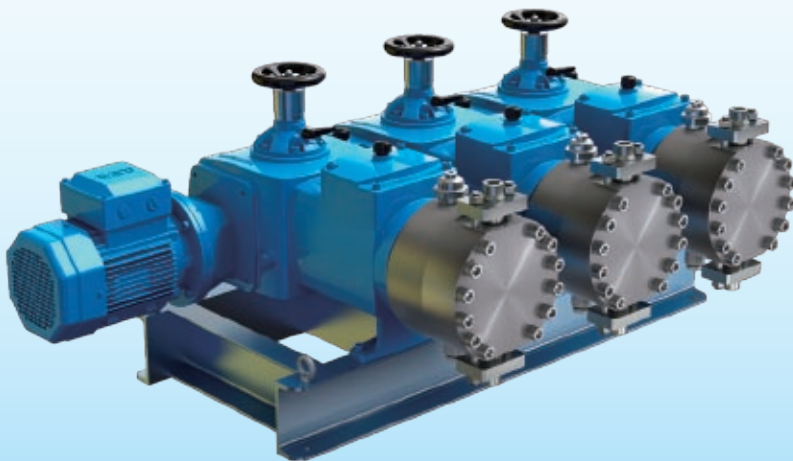
α -Flow Series Metering Pump *High performance and modular combination*

SUNRELAND INDUSTRIAL EQUIPMENT (SUZHOU) CO., LTD



Sunreland Industrial Equipment (Suzhou) Co., Ltd

Our company focuses on the production of pumps, valves, mixers, analytical instruments and other industrial products. The company adopts international advanced technology, providing clients first-class products and services according to the international standards.



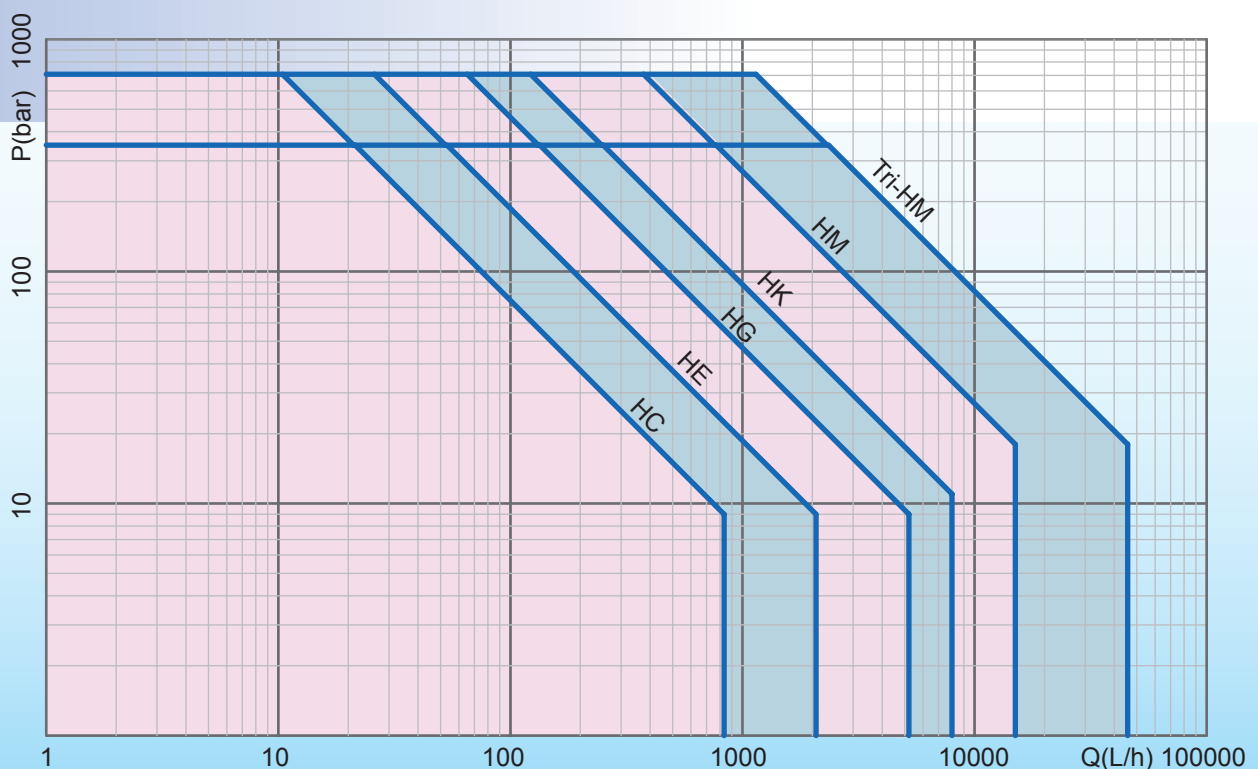
Technical Specification

- Max. flow rate: 10,000 L/h
- Max. discharge pressure: 300 Bar
- Turndown Ratio: 10:1
- Stability accuracy: $\pm 0.5\%$
- Max. viscosity: up to 10,000cP



α -flow series high performance combined type metering pump

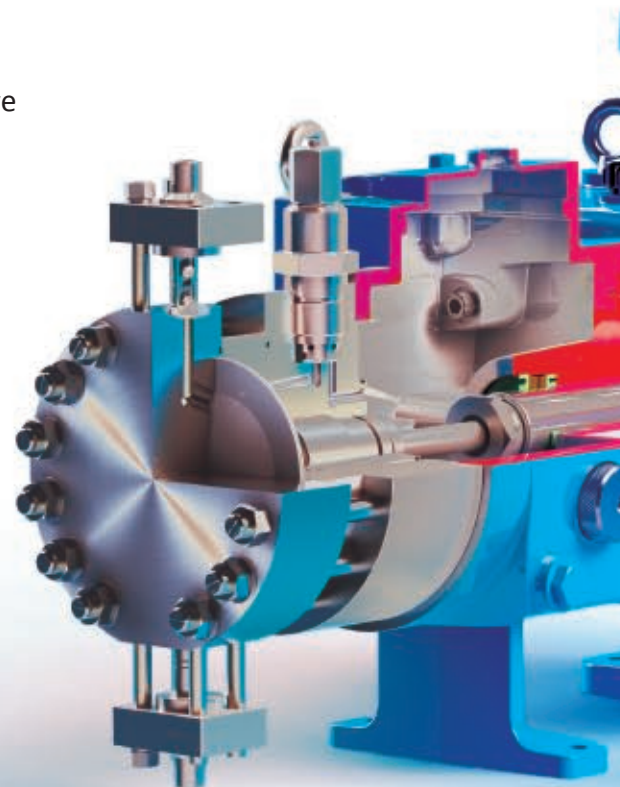
is a high-precision, high accuracy hydraulic diaphragm metering pump designed and manufactured according to the API 675 requirements. It is suitable for the application in various demanding and complicated process condition, its performance surpasses traditional metering pump, it is an ideal option for the various hazardous and harmful high-risk chemical dosing system. Mainly applied in chemistry, petrochemistry, oil gas field, power supply, papermaking, textile, energy, municipal water treatment and environmental protection, could be used in bio-pharmaceutical and food industry as well.



Technical Features

Liquid End

- Various materials available for the pump head: 316SS, PVC, PVDF, special alloys, stainless-steel fluorine lining
- Various pump head selection: PTFE diaphragm pump head, metal diaphragm pump head, plunger pump head
- Various structure selection: single diaphragm pump head, double diaphragm pump head, sandwich diaphragm pump head
- Many detective methods: on-site alarm of diaphragm rupture, distant transmission of alarm upon the diaphragm rupture
- Internal snifting valve, ensure the stability of output flow rate, meet the requirement of accuracy
- Internal pressure relief and venting valve, prevent the liquid end from overpressure, venting automatically
- Various check valve configuration: single-ball valve, double-ball valve, spring loaded valve, spring loaded disc valve
- Various connection ways: threaded connection, flange connection, quick connector connection
- Several pumps could be in parallel connection, meet delivering different mediums at the same time





Drive End

- Variable eccentric mechanism adjust the stroke length, ensure the pulsation vary gently
- Employ tapered roller-bearing suit high loads and demanding operation condition
- Modular design makes the maintenance and repair of the drive mechanism convenient
- Robust worm gear and worm shaft decelerating mechanism reduce the operation noise and ensure the steady work
- Oil bath lubrication ensure drive parts with low wear and high reliability

Flow Rate Adjustment Options

- Manually adjust the stroke length: adjust the stroke length at full range
- Standard configuration: adjust flow rate is available either during running or at standstill
- Electric stroke adjustment: receive external control signals to adjust the stroke length
 - Power source: 220V single phase power source
 - Input signal: 4-20mA
 - Output signal: 4-20mA/1-5V
- Frequency conversion speed adjusting: receive external control signals to adjust the stroke length
 - Power supply: 220V single phase power source/ 380V three phase power source
 - Input signal: 4-20mA
- Pneumatic stroke adjustment: receive external pressure signals to adjust the stroke length

Data Sheet

Hydraulically Actuated PTFE Diaphragm Liquid End Data Sheet

	Plunger (mm)	Pressure (bar)	Flow rate (L/h)
HE	Φ14	300	30
	Φ16	236	50
	Φ20	151	105
	Φ25	97	177
	Φ32	59	308
	Φ40	38	448
	Φ50	24	745
	Φ63	15	960
	Φ70	12	1200
	Φ80	9	1580
	Φ90	7	2000
	Φ100	6	2500
HG	Φ18	300	73
	Φ20	286	96
	Φ25	183	183
	Φ32	112	352
	Φ40	71	530
	Φ50	45	850
	Φ63	25	1420
	Φ70	23	1800
	Φ80	18	2380
	Φ90	14	3050
	Φ100	11	3890
HK	Φ25	300	150
	Φ32	248	320
	Φ40	159	590
	Φ50	102	970
	Φ55	84	1190
	Φ63	64	1590
	Φ80	40	2570
	Φ90	31	3300
	Φ100	25	4100
	Φ125	16	5950
	Φ145	12	8450

Others Consult Factory

Code and Performance

Frame Size Plunger Diameter Liquid End Type Pressure Options

■ ■ ■ ■ ■ ■ ■ ■ ■ ■

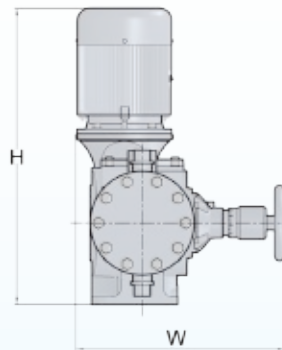
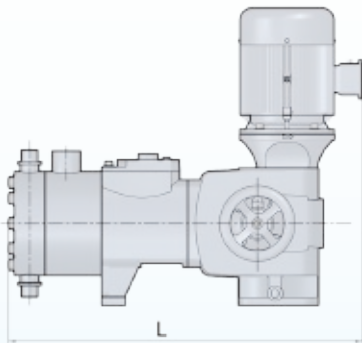
Frame Size: Drive Unit, **HE, HG, HK**

Plunger Diameter: Plunger Diameter, (mm)

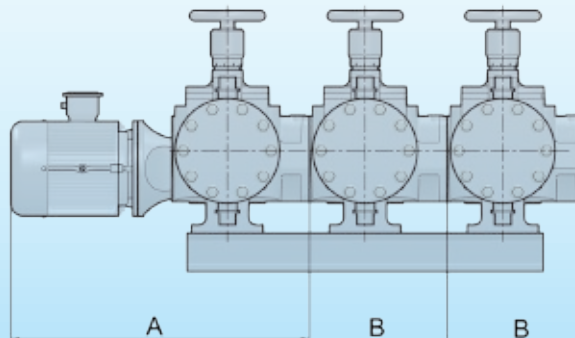
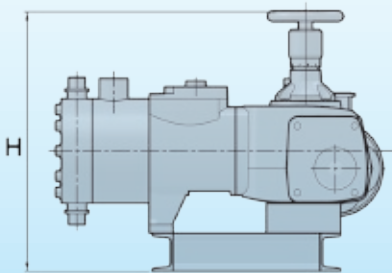
Liquid End Type: **P** - packing plunger type
 M - hydraulically actuated metal diaphragm type
 H - hydraulically actuated PTFE diaphragm type

Pressure: Pump Discharge Pressure, (Bar)

Options: Customized structures



	L	W	H	A	B
HE	650	450	800	780	300
HG	950	550	830	800	390
HK	1050	750	1200	1150	490





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