



# Select

Stainless Pumps

Advanced Technologies For Superior Performance

## MLS Series



### Typical Applications

Food, Dairy, Beverages, Paper & Pulp, Chemicals,  
Pharmaceuticals, Personal Care.





# Select

Stainless Pumps



MLS Series Hygienic in design, robust in construction

The **MLS Series** is a positive displacement **rotary lobe pump** designed using the latest innovative computer aided techniques and manufactured to meet today's stringent demands for high product quality, reliability, ease of maintenance, economy in purchase and low life time cost.



Superb operator and maintenance features, giving real operator benefits

- ↳ Classic rotary lobe pump design.
- ↳ Stainless steel 316L (DIN1.4404) contact parts.
- ↳ Used throughout the whole of the process industry ATEX compliant.
- ↳ Tri-lobe or multilobe rotor forms.
- ↳ Flush rotor retention.
- ↳ Hygienic flush front cover design.
- ↳ Universal mounting with bolt on feet.
- ↳ Easy to change shaft and port orientation.
- ↳ Shelf draining when ports vertical.
- ↳ Low shear.
- ↳ Externally mounted shaft seals.
- ↳ Mechanical seals or simple 'O' ring seal.
- ↳ Operates in either direction.
- ↳ Standard 0.8µm Ra machine finish.
- ↳ Enhanced surface finishes available.
- ↳ Scratch resistant powder coated finish on A0015, A0025, A0030, B0060, B0100, C0200 & C0300.
- ↳ Two pack epoxy finish on D0500, D0700, E0950, E1400 & E1400H.
- ↳ Protected front oil seals, prevents ingress of water from pressure washers.
- ↳ Simpler to maintain.

Clean and crevice free front cover. No product build up and hygienic in operation. Optional relief valve or heating jacket may be fitted.

Rotor spline area fully sealed front & rear with 'O' rings to maintain a high degree of cleanliness & facilitate easy rotor removal.



Fully swept pump chamber.

Full range of threaded and flanged connections, welded and polished internally for maximum hygiene.

Flush fitting rotor retainers offer increase cleanliness and security.

Fully ATEX compliant gland guard. Cannot be removed without the use of hand tools for increased safety whilst giving full visual access for seal inspection.

Modular design giving ease of maintenance and application.

Cast iron bearing housing giving stability across the pump operating range.

Heavy duty needle races of the rear afford full stability for belt or chain driven pumps.

ATEX compliant oil filter/breather cap.

Powder coated or epoxy finish. Durable, hygienic and easy clean surfaces.

Stainless steel bolt on feet for universal mounting at 90° increments.

All 316L stainless steel product contact parts to give compatibility across the process industries.

Heavy duty cast iron gear case.

Helical timing gears, low noise & high torque transmission.

Double taper roller bearings. High loads giving axial and radial stability.

### VERSATILITY AND SAFETY

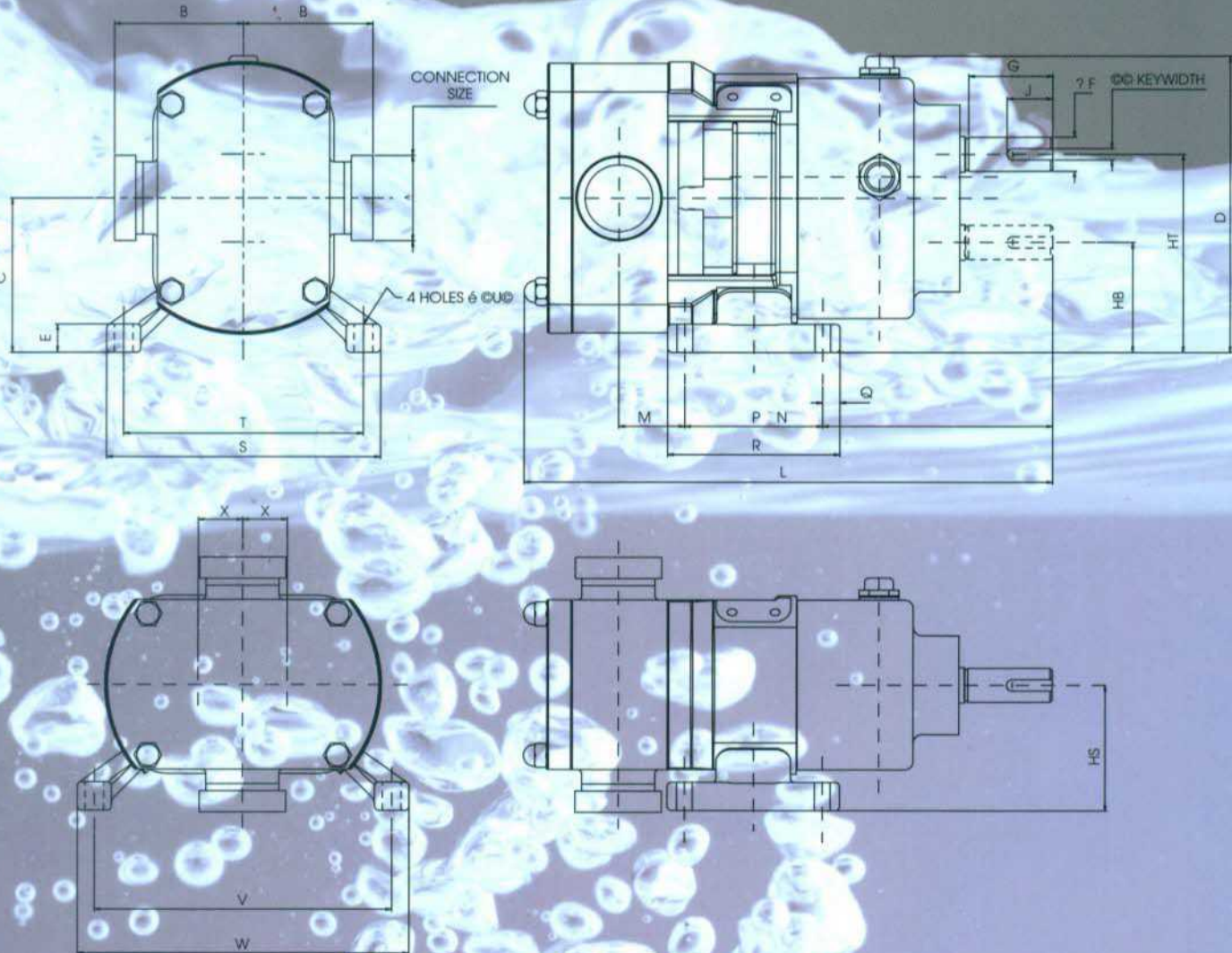
For maximum flexibility, the feet of the pump may be removed and re/set to change the drive and port orientation to operate with the ports in a horizontal or a vertical position or to accommodate a top or bottom shaft drive. For heat sensitive applications, jackets may be fitted to the rotorcase and/or front cover to either heat or cool the pump head. To protect the pump, a spring operated relief valve may be fitted to the front cover. This can be set on site to protect the pump from over pressurisation and is available with air operation for automated CIP process.

### STAY CLEANER

Hygienically designed, it produces a gentle pumping action for delicate liquids with soft solid as found in the food industry. The robust, stainless steel construction is suited to the aggressive slurries and pastes of the chemical industry. For hygiene and corrosion resistance all product/wetted part are manufactured from AISI 316L (DIN1.4404) stainless steel.

### EASIER MAINTENANCE

The mechanical seals are of cartridge design with the rotary seat retention isolated from the pumped medium giving improved operation and easier assembly, setting and maintenance. Available in single, flushed or double seal configurations, all seal combination use the same component wetted parts.



Measurements in millimeters (mm)

MLS MODEL	A	B1	B2	B3	B4	B5	C	D	E (mm)	F	G	HB	HS	HT	J (mm)	K	L	M	N	P	Q	R	S	T	U	V	W	X	Weight (Kg)
A0015	25	89	89	103	103	103	74	157	10	18 j6	28	48	63	100	25	6	249	47.5	116.4	45	10	65	146	126	8.5	162.5	183	26	13
A0025	40	89	111	103	103	103	74	157	10	18 j6	28	48	63	100	25	6	264	54.5	116.4	45	10	65	146	126	8.5	162.5	183	26	14
A0030	40	89	111	103	103	103	74	157	10	18 j6	28	48	63	100	25	6	276	65.5	116.4	45	10	65	146	126	8.5	162.5	183	26	15
B0060	40	98	120	112	112	112	109	219	20	24 j6	59	78	88.75	140	32	8	349	35	160.5	96	12	120	195	167	11	207.5	235.5	31	28
B0100	50	98	120	112	112	120	109	219	20	24 j6	59	78	88.75	140	32	8	369	46	160.5	96	12	120	195	167	11	207.5	235.5	31	31
C0200	50	124	146	138	138	146	133.5	272	25	38 k6	69.5	87	111.3	180	40	10	443	60.6	196.5	115	15	145	258	228	13	272.3	302.3	46.5	71
C0300	80	124	156	138	146	151	133.5	272	25	38 k6	69.5	87	111.3	180	40	10	478	80.6	196.5	115	15	145	258	228	13	272.3	302.3	46.5	77
D0500 Horizontal	80	159	191	173	181	186	177	343	23	48 k6	110	114	175	240	90	14	647	163	262.8	120	22.5	165	220	184	18	-	-	63	150
D0500 Vertical																		131	230.75	184	18	220	-	-	-	228	273		
D0700 Horizontal	100	163	206	173	181	186	177	343	23	48 k6	110	114	175	240	90	14	679	181.25	262.8	120	22.5	165	220	184	18	-	-	63	162
D0700 Vertical																		149.5	230.75	184	18	220	-	-	-	228	273		
E0950 Horizontal	100	188	235	202	210	215	215	422	30	60 m6	104	135	205	295	59	18	755	212	285	150	25	200	260	220	20	-	-	80	252
E0950 Vertical																		168	241	238	20	278	-	-	-	250	300		
E1400 Horizontal	150	N/A	N/A	182	182	N/A	215	422	30	60 m6	104	135	205	295	59	18	815	240	285	150	25	200	260	220	20	-	-	80	274
E1400 Vertical																		196	241	238	20	278	-	-	-	250	300		

Disclaimer: Dimensions are for guidance only. Please refer to our technical office if a certified drawings is required.



Pump Performance Parameters

MLS Model	Litres /rev.	Pressure Bar	Port ø mm	Max Speed RPM
A0015	0.046	12	25	1400
A0025	0.083	8	40	1400
A0030	0.111	5	40	1400
B0060	0.202	12	40	1000
B0100	0.313	7	50	1000
C0200	0.694	12	50	750
C0300	1.125	7	80	750

MLS Model	Litres /rev.	Pressure Bar	Port ø mm	Max Speed RPM
D0500	1.800	12	80	700
D0700	2.500	7	100	700
E0950	3.514	12	100	650
E1400	5.250	8	150	650
E1400H	5.250	12	150	150

E1400H High Pressure Pump

The Pump has been developed to serve the market requiring differential pressure handing capabilities to 12 Bar continuous with intermittent peaks to 28 Bar.

Superb operator and maintenance features, giving real operator benefits.

- Maximum Differential pressure rating 28 Bar.
- Excellent cleanability characteristics, far superior to Waukesha style pumps.

Examples of Applications served with this product Food and Beverage

- Loading and unloading into tankers (ships) and trucks.
- Bulk Juice and frozen Juice transfer.
- Filter Press Application (Spent Grain).
- Grain / Vegetables Oil Processing.
- Sugar / Starch/ Glucose.
- Simple to maintain and low ownership cost.
- Rugged rotary lobe pump design.

Chemical and Industrial

- Asphalt / Tar Processing.
- Glues & Adhesive.
- Greases & Lubricants.
- Pain, Pigment and Paper Coating.
- Petrochemical and Bio Fuel Processing.



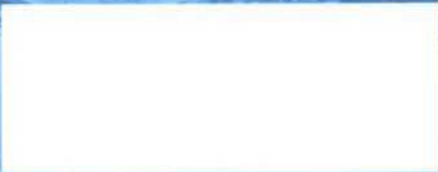
Our products are used across the whole of the process industries in applications as diverse as paper & pulp production through to the extreme hygiene end of the pharmaceutical industry on injectables and blood processing. We manufacture within our organization rotary lobe, centrifugal, circumferential piston, air operated double diaphragm and dosing pumps, all manufactured and designed with hygiene, cleanliness, affordability and robustness in mind. These pumps coupled with our range of hygienic turbine and magnetic flow meters, our full range of sanitary valves and our powder mixing technology from Quadro, gives a complete package for the modern high-tech process industries of today.



For more information, contact your local authorized Select distributor or contact us at:



Gus Soto
Office (716) 671-2326 Fax (716) 671-2327
Toll free (866) 313-0671
19 Ransier Drive West Seneca, NY 14224
gsoto@select-stainless.com



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Select Sanitary Division.