

# Siera

edition  
SILVERLINE

## S R

### Stainless Steel Horizontal Multistage Close-coupled Centrifugal Pump



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#### General

Siera comprises a range of horizontal multistage close-coupled centrifugal pumps, designed to meet applications where high discharge pressure is required.

This new generation pump is a state-of-the-art line pumps, which its entire hydraulic wet-ends are manufactured from stainless steel - **AISI 304** or **AISI 316**.

Adopting a unique pressing technology that revolutionised the pump design concept, coupled with stainless steel hydraulic wet-ends, leads to higher operating efficiency over a wider range of capacities and discharge pressures and lowers operating costs; which meet today's sophisticated application requirements in the building services and the general industries.



^ Impeller in pressed stainless steel

#### Design Features

**STAINLESS STEEL CONSTRUCTION** | All wetted parts are made of high quality polished stainless steel, with options of AISI 304 or AISI 316, offering not only excellent resistance to corrosion, but optimum performance and durability.

**CASING** | Designed with centreline discharged, ensuring maximum resistance to misalignment and distortion from pipe loads. The volute casing is designed as an integral part of the pump body.

Sealing between casing and pump bracket is by means of an o-ring.

**IMPELLER** | Impeller is of enclosed type, with projection-welded blades.

**SHAFT SEALING** | Mechanical seals (ceramic/ carbon/ NBR) are fitted as standard. Depending on characteristics of liquid handled, various sealing material options are available.

**MOTOR** | Coupled to totally enclosed fan-cooled (TEFC), aluminium-finned frame motor, with IP55 (weatherproof) protection rating as standard.

#### Applications

**BUILDING SERVICES** | General water transfer; pressure boosting systems; fire hose reel; landscaping & water feature applications.

**INDUSTRIAL** | Water circulation & machine cooling; washing system; waste water treatment system handling non-aggressive liquid; heat exchanger and other manufacturing processes.

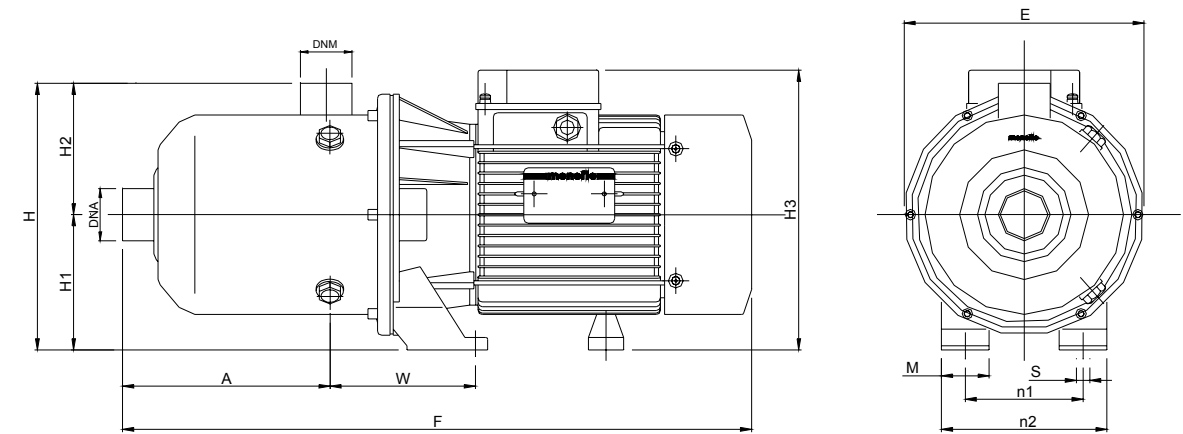
**AGRICULTURAL** | Horticultural irrigation systems; light irrigation for lawns & gardens; sprinkler application.

√  
Sprinkler application



# monoflo

#### Dimensions



Models	[kW]	Dimensions   mm												Conn.		Weight [kg]	
		A	E	F	H	H1	H2	H3	H3*	M	n1	n2	S	W	DNA		DNM
SR(M) 40-2/037	0.37	76	170	353	176	88	88	221	192	30	100	130	7	91	G1"	G1"	7.7
SR(M) 40-3/055	0.55	76	170	353	176	88	88	221	192	30	100	130	7	91	G1"	G1"	8.8
SR(M) 40-4/055	0.55	130	170	407	176	88	88	221	192	30	100	130	7	91	G1"	G1"	9.4
SR(M) 40-5/055	0.55	130	170	324	176	88	88	221	192	30	100	130	7	91	G1"	G1"	9.6
SR(M) 40-6/075	0.75	130	170	375	176	88	88	221	192	30	100	130	7	91	G1"	G1"	10.8
SR(M) 80-2/055	0.55	76	170	324	176	88	88	221	192	30	100	130	7	91	G1 1/4"	G1"	8.6
SR(M) 80-3/075	0.75	130	170	362	176	88	88	221	192	30	100	130	7	91	G1 1/4"	G1"	9.4
SR(M) 80-4/075	0.75	130	170	375	176	88	88	221	192	30	100	130	7	91	G1 1/4"	G1"	9.6
SR(M) 160-2/075	0.75	137	235	470	250	120	130	250	-	39	140	180	9	104	G1 1/4"	G1"	-
SR(M) 160-3/11	1.1	137	235	470	250	120	120	250	-	39	140	180	9	104	G1 1/2"	G1"	16.5
SR(M) 160-4/15	1.5	197	235	536	250	120	120	260	-	39	140	180	9	104	G1 1/2"	G1"	19.0
SR(M) 160-5/22	2.2	197	235	536	250	120	120	260	-	39	140	180	9	104	G1 1/2"	G1"	-

Dimensions H3 & H3\*, applicable for single-phase and three-phase motors, respectively.  
| All dimensions are for reference only, and are subjected to changes without prior notice.

www.monoflopumps.com

As MONOFLO Pumps is constantly improved, we reserve the right to make specification changes without prior notice and without incurring liability.

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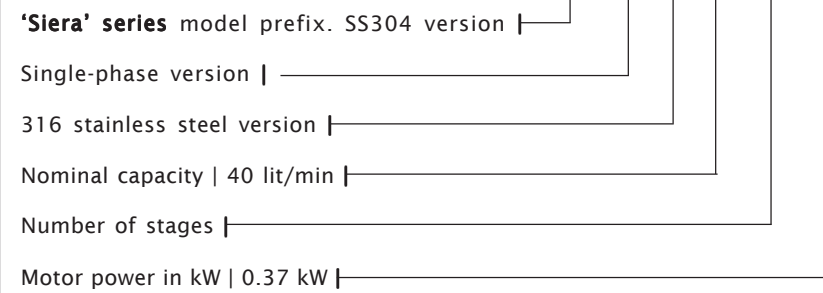
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### Operating Limits

- **LIQUID HANDLED** | Clean water or non-aggressive liquid compatible to AISI 304/316 stainless steel.
- **WORKING PRESSURE** | Maximum working pressure up to **8 bar or 800 kPa**.
- **CAPACITY** | Maximum capacity up to **260 litres/ min or 15.6 m3/hr**.
- **DISCHARGE PRESSURE** | Maximum discharge pressure up to **61 metres**.
- **OPERATING TEMPERATURE** | **-15 to 80°C** with *NBR/ceramic/carbon* standard fitted mechanical seal. For higher temperature, special seals are available upon request.

### Model Designation

**SR (M) Z 40 -2 / 037**

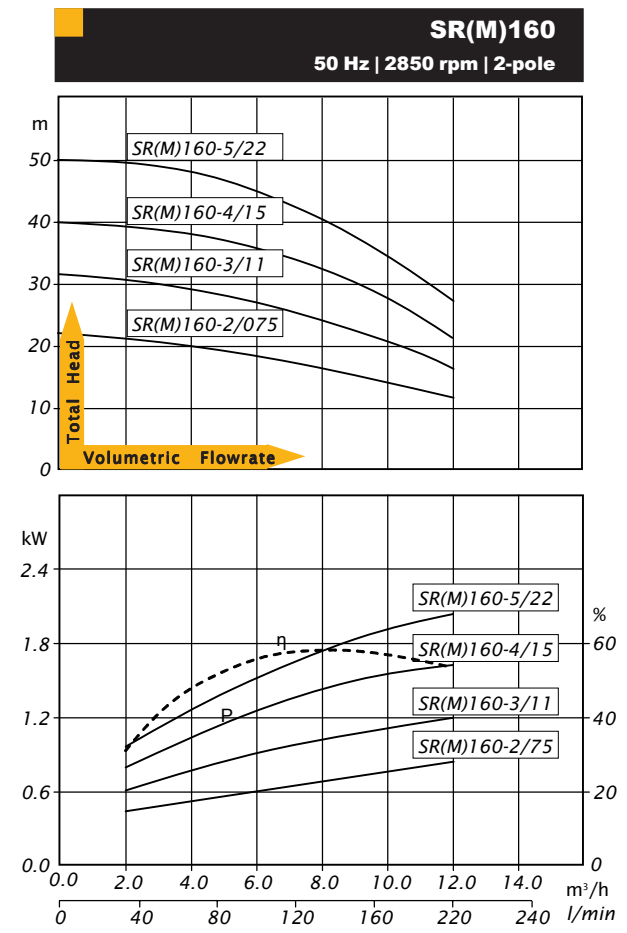
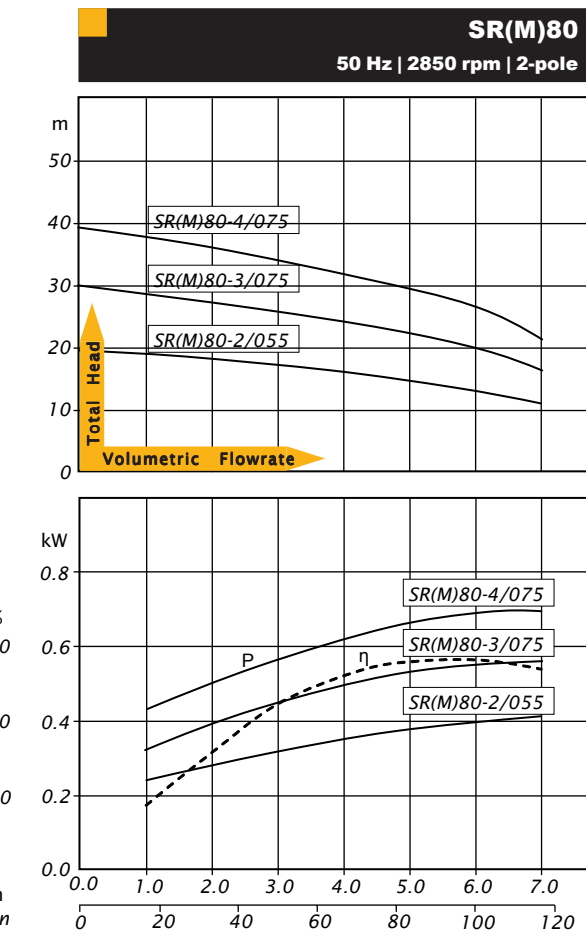
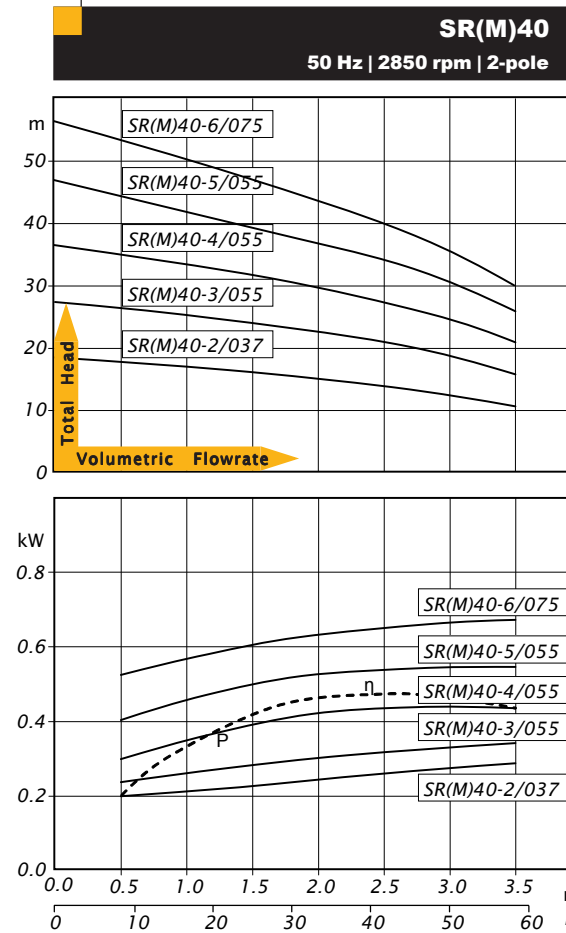


### Technical Data

Material of construction	
Parts	Material
Casing	Stainless steel AISI 304 or AISI 316 as option
Impeller	Stainless steel AISI 304 or AISI 316 as option
Backplate	Stainless steel AISI 304 or AISI 316 as option
Shaft	Stainless steel AISI 304 or AISI 316 as option
Motor frame	Aluminium
Shaft sealing	Mechanical seal   NBR/ Carbon/ Ceramic   DIN24960 Optional sealing material available upon request
Motor	
Motor type	Totally enclosed fan-cooled [TEFC], encased in aluminium-finned housing
Protection	IP 5 5 protection [Weatherproof]
Insulation	Class 'F'
Rating	Continuous
Voltage	<b>Single phase</b> ~ 220-230V/ 1 phase/ 50Hz ~ c/w permanent split capacitor & built-in overload protection  <b>Three phase</b> ~ 380-415V/ 3 phase/ 50Hz ~ Overload protection must be provided by end-users

### Performance Curves

- Performance tested to ISO2548, Class C
- Water test temperature at 20°C



Electrical data								
Models		Motor		Input power [kW]		Input current [Amp]		Capacitor
230V / 1Ø	415V / 3Ø	kW	Hp	1Ø	3Ø	230V	415V	µF V
SRM40-2/037	SR40-2/037	0.37	0.5	0.56	0.52	2.26	0.90	13 500
SRM40-3/055	SR40-3/055	0.55	0.75	0.76	0.71	3.60	1.24	20 500
SRM40-4/055	SR40-4/055	0.55	0.75	0.76	0.71	3.60	1.24	20 500
SRM40-5/055	SR40-5/055	0.55	0.75	0.76	0.71	3.60	1.24	20 500
SRM40-6/075	SR40-6/075	0.75	1.00	0.98	0.99	4.45	1.79	20 500
SRM80-2/055	SR80-2/055	0.55	0.75	0.76	0.71	3.60	1.24	20 500
SRM80-3/075	SR80-3/075	0.75	1.00	0.98	0.99	4.45	1.79	20 500
SRM80-4/075	SR80-4/075	0.75	1.00	0.98	0.99	4.45	1.79	20 500
SRM160-2/075	SR160-2/075	0.75	1.00	0.98	0.99	4.45	1.79	20 500
SRM160-3/11	SR160-3/11	1.10	1.50	1.41	1.32	6.42	2.34	30 500
SRM160-4/15	SR160-4/15	1.50	2.00	1.93	1.81	8.80	3.03	40 500
SRM160-5/22	SR160-5/22	2.20	2.50	2.74	-	4.62	-	40 500

