



Construction

Vertical column sump pumps, with motor in dry installation and with pump body submerged in the liquid handled (without suction line or foot valve).

Impeller - VAL: free-flow impeller (vortex or recessed impeller).
- SC: open impeller.

Connection - VAL 30, SC 30, SC 50: threaded port ISO 228 (BS 2779).
- VAL 65: flange with plain face oval threaded counter-flange UNI 2245, PN 2,5.

Applications

- For draining a basin or a sump with domestic or industrial sewage.
- For slightly dirty waste water, for liquids which are non-aggressive for the pump materials.

Operating conditions

Liquid temperature up to 40 °C.

Ambient temperature up to 40 °C.

Continuous duty.

Maximum size of solids: VAL 30 = 25 mm; VAL 65 = 50 mm;
SC 30 = 3 mm; SC 50 = 6 mm.

Motor

2-pole induction motor, 50 Hz (n = 2900 rpm).

VAL -SC: three-phase 230/400 V $\pm$ 10%.

VALM-SCM: single-phase 230 V $\pm$ 10%, with thermal protector.

Insulation class F.

Protection IP 54.

Classification scheme IE2 for three-phase motors from 0,75 kW.

Constructed in accordance with: EN 60034-1; EN 60034-30.
EN 60335-1, EN 60335-2-41.

Special features on request

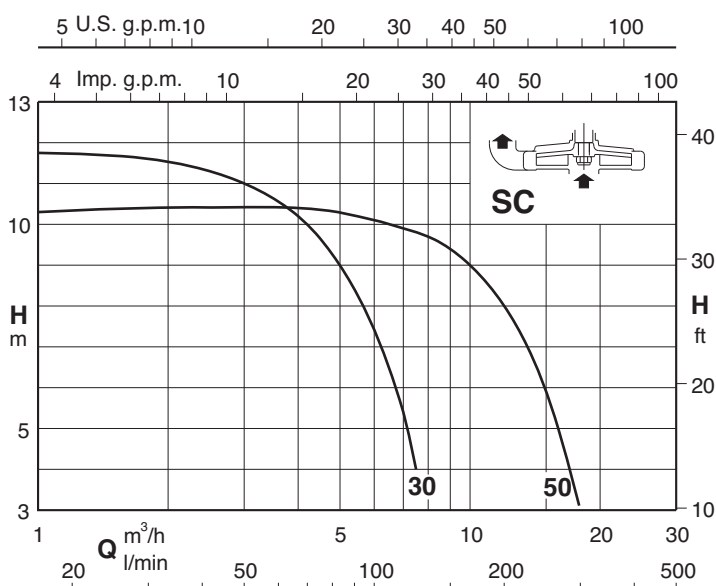
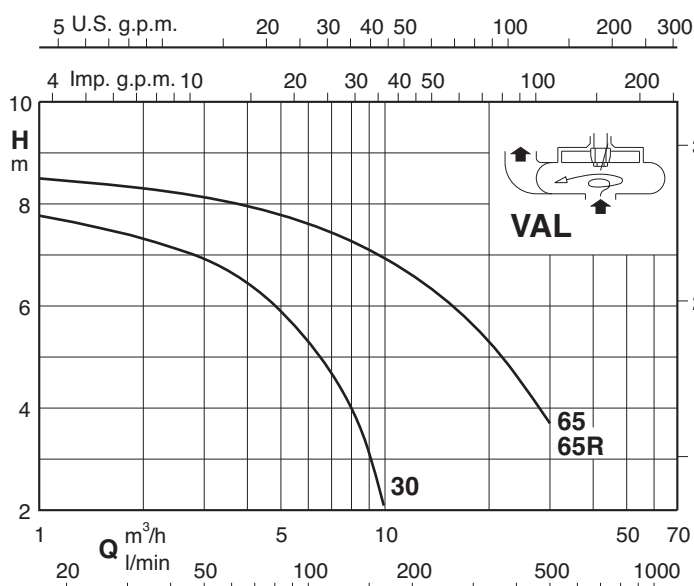
- Other voltages.
- Frequency 60 Hz (as per 60 Hz data sheet).
- Protection IP 55.
- Bronze bearing bush (for liquid up to 100 °C).
- Higher ambient temperatures.

Materials

Components	VAL	SC
Pump casing Lower bearing housing*	Cast iron GJL 200 EN 1561	Cast iron GJL 200 EN 1561
Impeller	Brass P-Cu Zn 40 Pb 2 UNI 5705 for VAL 30	Brass P-Cu Zn 40 Pb 2 UNI 5705
	Cast iron GJL 200 EN 1561 for VAL 65	
Shaft	Steel C 40 UNI 7231	
Bearing bush	Tecopolymer	
Shaft sleeve	Chromate bronze for VAL 65	—

* Not existing for VAL 30.

Characteristic Curves $n \approx 2900$ rpm



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Performance $n \approx 2900$ rpm

3 ~			230V 400V			1 ~			230V P ₁			P ₂		Q m³/h																				
		A	A			A	kW	kW	HP	l/min	50	58,3	66,6		75	83,3	91,6	100	108	116	125	133	150	166	200	233	266	300	333	416	500			
VAL 30/A			2,3	1,3	VALM 30/A			3,6	0,63	0,45	0,6	H m																						
VAL 65E			7,5	4,3						1,5	2																							
VAL 65-R/A			9,15	5,3						2,2	3																							
SC 30/A			2,3	1,3	SCM 30/A			2,8	0,47	0,37	0,5																							
SC 50/A			2,3	1,3	SCM 50/A			3,6	0,69	0,45	0,6																							

P₁ Max. power input.

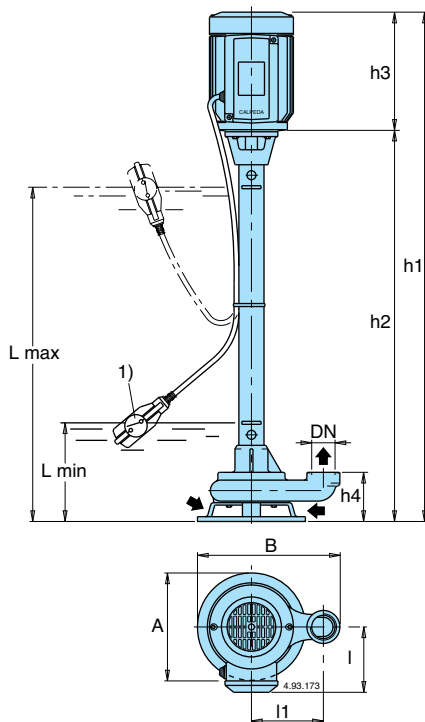
P₂ Rated motor power output.

H Total head in m.

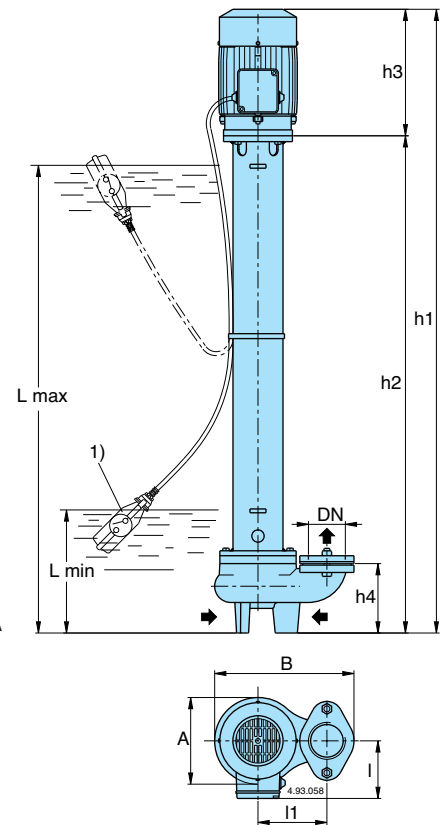
Tolerances according to ISO 9906, annex A.

Dimensions and weights

VAL 30E
SC 30E
SC 50E



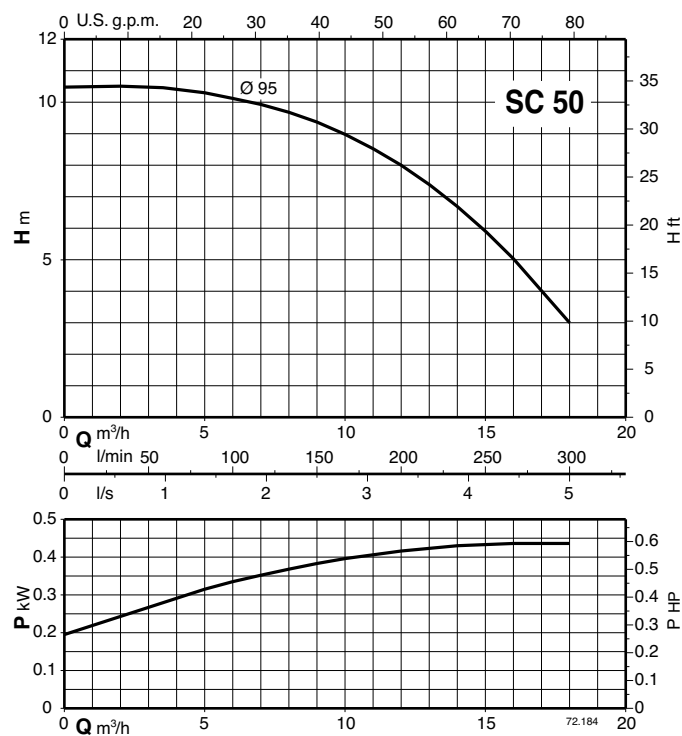
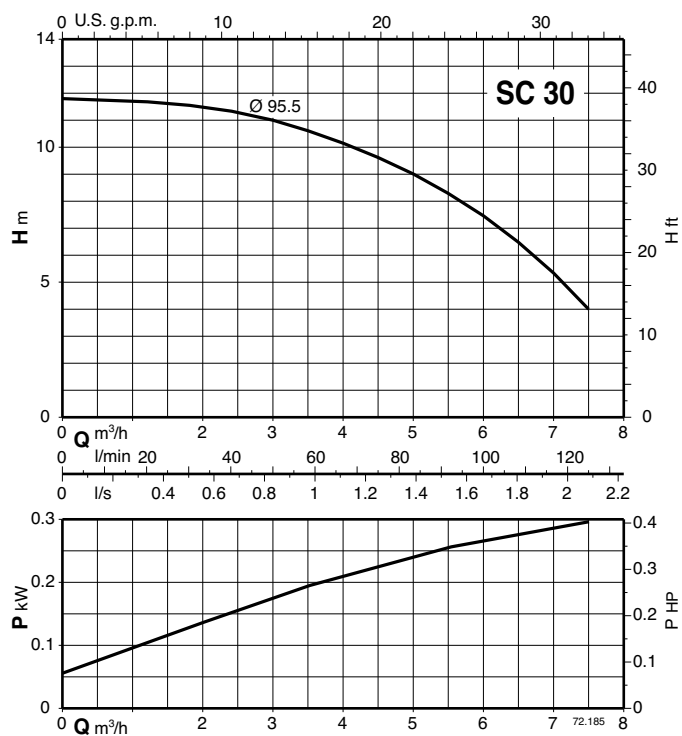
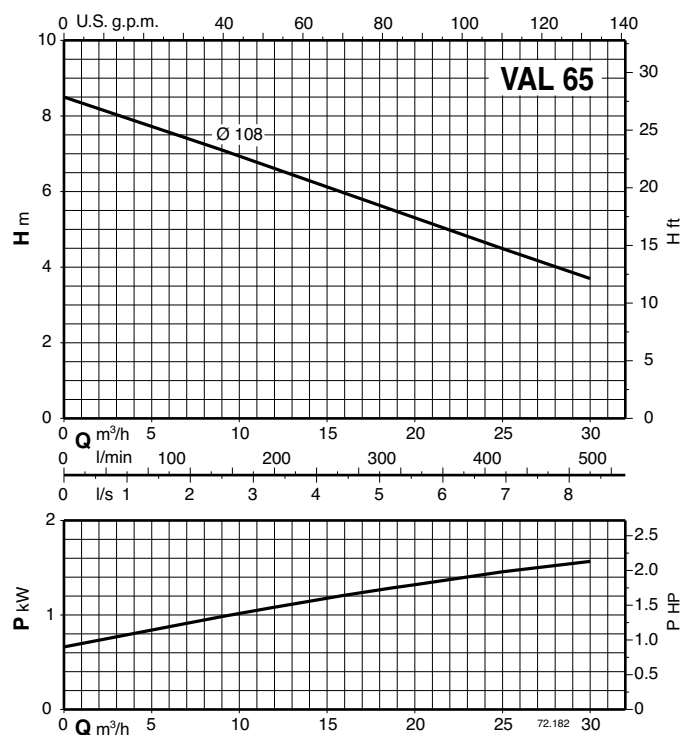
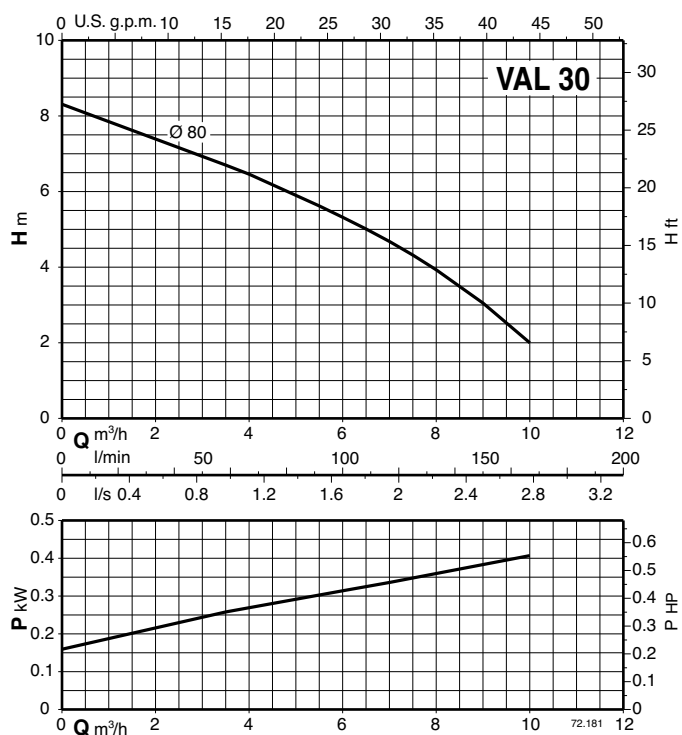
VAL 65E
VAL 65-R/A



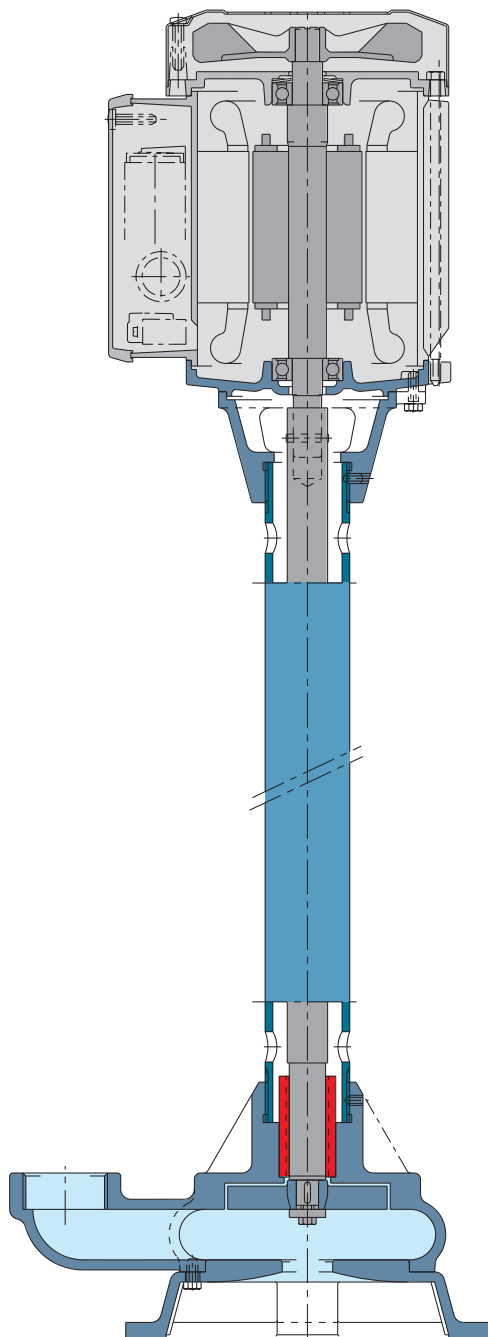
1) Float switch (on demand)

TYPE	DN ISO 228	mm										kg
		h1	h2	h3	h4	I	I1	L min	L max	A	B	
VAL 30/750/A	G 1 1/4	1025	825	200	82	111	120	150	750	180	235	17,8
VAL 30/1000/A		1275	1075						1000			19,5
VAL 65/1000E		1245	1010						950			40
VAL 65/1500E	G 2 1/2	1745	1510	235	140	135	140	250	1450	175	283	48
VAL 65/2000E		2245	2010						1950			56
VAL 65/2500E		2745	2510						2450			64
VAL 65/1000-R/A	G 2 1/2	1285	1010	275	140	135	140	250	950	175	283	43
VAL 65/1500-R/A		1785	1510						1450			51
VAL 65/2000-R/A		2285	2010						1950			59
VAL 65/2500-R/A	G 2 1/2	2785	2510	275	140	135	140	250	2450	175	283	67
SC 30/500/A		765	565						455			17,4
SC 30/750/A		1015	815						705			19,6
SC 30/1000/A	G 1 1/4	1265	1065	200	105	111	100	200	955	132	192	21,8
SC 30/1250/A		1515	1315						1205			24
SC 50/500/A		780	580						470			18,5
SC 50/750/A	G 2	1030	830	200	120	111	120	215	720	173	243	20,7
SC 50/1000/A		1280	1080						970			22,9
SC 50/1250/A		1530	1330						1220			25,1

Curve caratteristiche $n \approx 2900$ 1/min



Features

**RANGE**

Le differenti costruzioni e le diverse lunghezze disponibili nella gamma consentono di soddisfare il più ampio campo di installazioni e prestazioni richieste dall'utilizzatore.

COSTRUZIONE PRIVA DI TENUTA MECCANICA

L'assenza della tenuta meccanica consente di ridurre al minimo le operazioni di manutenzione necessarie alle pompe.

GALLEGGIANTE

Le pompe possono essere dotate di interruttore a galleggiante non necessitando in questo caso di un sistema di controllo dei livelli aggiuntivo.