

CIRCULATORS

FOR HEATING AND AIR CONDITIONING SYSTEMS



Single body consisting of a cast iron hydraulic unit. Die-cast aluminium motor casing.

Technopolymer impeller. Tempered stainless steel driving shaft mounted on graphite bearings lubricated by the pumped liquid itself.

Stainless steel protective rotor sleeve, stator sleeve and closing flange.

Ceramic thrust bearing, E.P.D.M. O-rings and brass air outlet cap.

The two-pole asynchronous motor with wet rotor is self-protected for resistance.

No overload protection required. Three-speed operation.

In the twin version an automatic clapet type valve is provided.

Operating range: from 0.5 to 4 m³/h with head up to 6.3 metres.

Liquid temperature range: from -10°C to +110°C.

Pumped liquid characteristics: clean, free from solids and mineral oils, non viscous, chemically neutral, close to the characteristics of water (max 30% glycol).

Maximum working pressure: 10 bar (1000 kPa).

Protection level: corresponding to IP 44

Insulation class: F

Cable grommet: PG 11

Installation: with motor axis horizontal.

ELECTRICAL AND HYDRAULIC DATA

SINGLE WITH UNIONS

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm	UNIONS ON REQUEST		ELECTRICAL DATA						MINIMUM HEAD PRESSURE
			STANDARD	SPECIAL	SPEED	n r.p.m.	P1 MAX W	I _n A	CAPACITOR μF V _c		
VA 25/130	1x230 V ~	130	1" F	3/4" F - 1 1/4" M	3	2590	57	0.26	1,5	450	t° +90°C m.t. 1,5
					2	2320	50	0.24			
					1	1895	38	0.18			
VA 25/180	1x230 V ~	180	1" F	3/4" F - 1 1/4" M	3	2590	57	0.26	1,5	450	t° +90°C m.t. 1,5
					2	2320	50	0.24			
					1	1895	38	0.18			
VA 25/180 X	1x230 V ~	180	1 1/4" F	-	3	2590	57	0.26	1,5	450	t° +90°C m.t. 1,5
					2	2320	50	0.24			
					1	1895	38	0.18			
VA 35/130	1x230 V ~	130	1" F	3/4" F - 1 1/4" M	3	2370	71	0.31	2	450	t° +90°C m.t. 1,5
					2	1910	60	0.28			
					1	1440	44	0.2			
VA 35/130 1/2"	1x230 V ~	130	-	-	3	2370	71	0.31	2	450	t° +90°C m.t. 1,5
					2	1910	60	0.28			
					1	1440	44	0.2			
VA 35/180	1x230 V ~	180	1" F	3/4" F - 1 1/4" M	3	2370	71	0.31	2	450	t° +90°C m.t. 1,5
					2	1910	60	0.28			
					1	1440	44	0.2			
VA 35/180 X	1x230 V ~	180	1 1/4" F	-	3	2370	71	0.31	2	450	t° +90°C m.t. 1,5
					2	1910	60	0.28			
					1	1440	44	0.2			
VA 55/130	1x230 V ~	130	1" F	3/4" F - 1 1/4" M	3	2330	82	0.36	2,5	450	t° +90°C m.t. 1,5
					2	1815	64	0.29			
					1	1330	45	0.2			
VA 55/130 1/2"	1x230 V ~	130	-	-	3	2330	82	0.36	2,5	450	t° +90°C m.t. 1,5
					2	1815	64	0.29			
					1	1330	45	0.2			
VA 55/180	1x230 V ~	180	1" F	3/4" F - 1 1/4" M	3	2330	82	0.36	2,5	450	t° +90°C m.t. 1,5
					2	1815	64	0.29			
					1	1330	45	0.2			
VA 55/180 X	1x230 V ~	180	1 1/4" F	-	3	2330	82	0.36	2,5	450	t° +90°C m.t. 1,5
					2	1815	64	0.29			
					1	1330	45	0.2			
VA 65/130	1x230 V ~	130	1" F	3/4" F - 1 1/4" M	3	2100	102	0.45	2,5	450	t° +90°C m.t. 2,5
					2	1460	78	0.35			
					1	1050	51	0.24			
VA 65/130 1/2"	1x230 V ~	130	-	-	3	2100	102	0.45	2,5	450	t° +90°C m.t. 2,5
					2	1460	78	0.35			
					1	1050	51	0.24			
VA 65/180	1x230 V ~	180	1" F	3/4" F - 1 1/4" M	3	2100	102	0.45	2,5	450	t° +90°C m.t. 2,5
					2	1460	78	0.35			
					1	1050	51	0.24			
VA 65/180 X	1x230 V ~	180	1 1/4" F	-	3	2100	102	0.45	2,5	450	t° +90°C m.t. 2,5
					2	1460	78	0.35			
					1	1050	51	0.24			

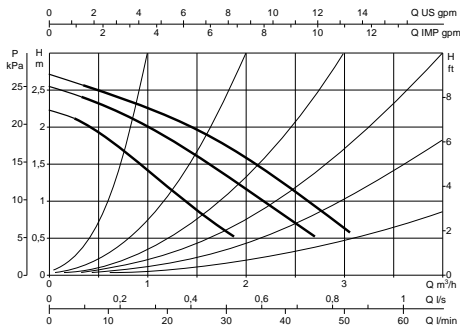
SINGLE WITH OVAL FLANGES

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm	UNIONS ON REQUEST		ELECTRICAL DATA						MINIMUM HEAD PRESSURE
			STANDARD	SPECIAL	SPEED	n r.p.m.	P1 MAX W	I _n A	CAPACITOR μF V _c		
VB 35/120	1x230 V ~	120	DN 25	DN 20 DN 32	3	2370	71	0.31	2	450	t° +90°C m.t. 1,5
					2	1910	60	0.28			
					1	1440	44	0.2			
VB 55/120	1x230 V ~	120	DN 25	DN 20 DN 32	3	2330	82	0.36	2,5	450	t° +90°C m.t. 1,5
					2	1815	64	0.29			
					1	1330	45	0.2			
VB 65/120	1x230 V ~	120	DN 25	DN 20 DN 32	3	2100	102	0.45	2,5	450	t° +90°C m.t. 2,5
					2	1460	78	0.35			
					1	1050	51	0.24			

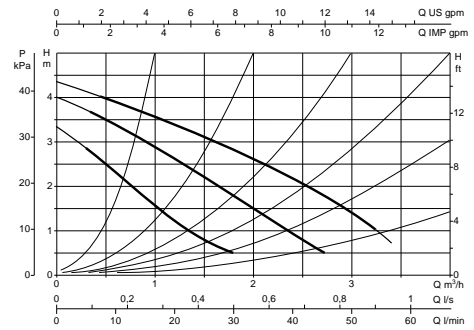
TWIN WITH OVAL FLANGES

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm	FLANGES ON REQUEST	ELECTRICAL DATA						MINIMUM HEAD PRESSURE
				SPEED	n r.p.m.	P1 MAX W	In A	CAPACITOR		
								μF	Vc	
VD 55/220.32	1x230 V ~	220	DN 32 / PN 6 / PN 10	3	2330	82	0,36	2,5	450	t° +90°C m.t. 1,5
				2	1815	64	0,29			
				1	1330	45	0,2			
VD 65/220.32	1x230 V ~	220	DN 32 / PN 6 / PN 10	3	2100	102	0,45	2,5	450	t° +90°C m.t. 2,5
				2	1460	78	0,35			
				1	1050	51	0,24			

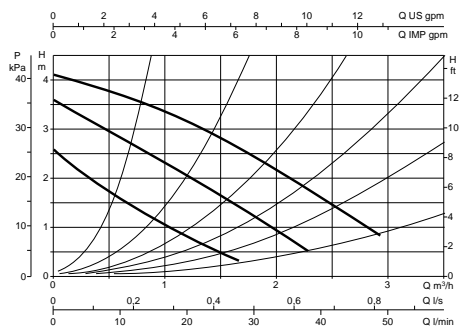
VA 25



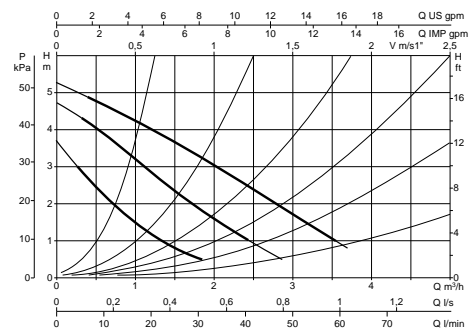
VA 35 - VB 35



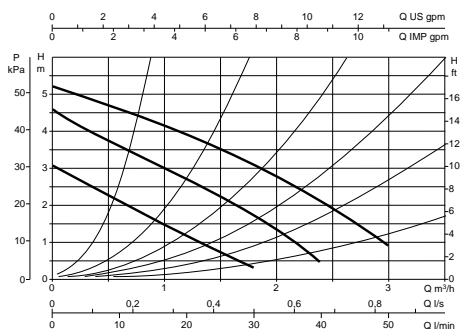
VA 35/130-1/2"



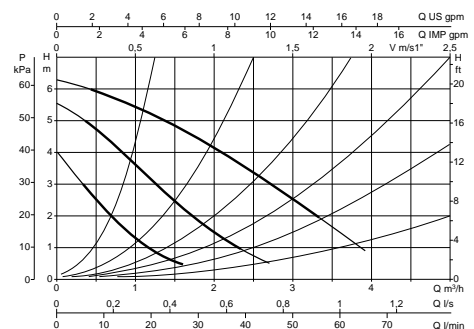
VA55 - VB 55 - VD 55/220.32*



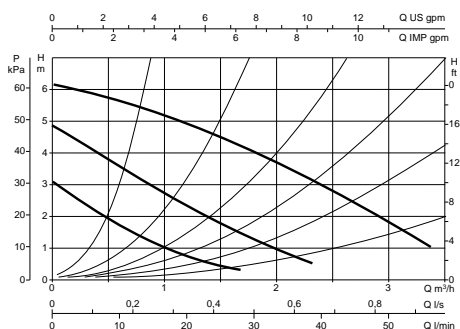
VA 55/130-1/2"



VA 65 - VB 65 - VD 65/220.32*



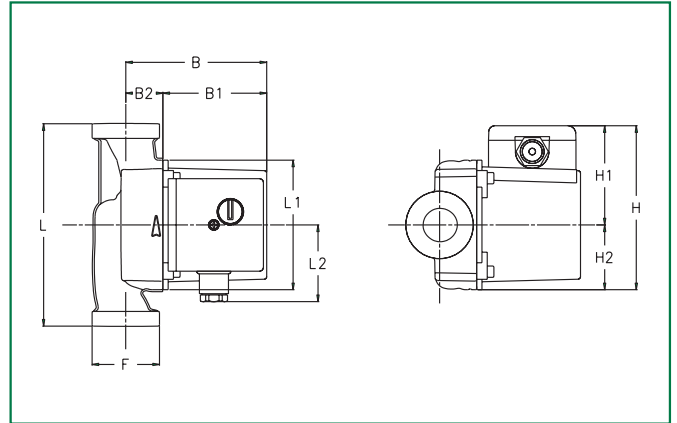
VA 65/130 1/2"



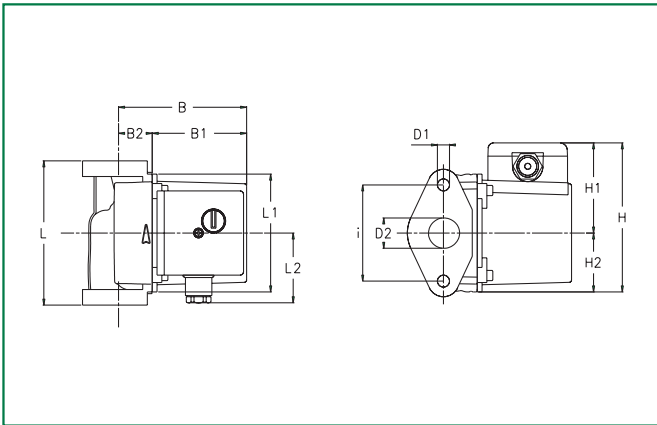
* Electrical data are related to only one motor in operation

DIMENSIONS AND WEIGHTS

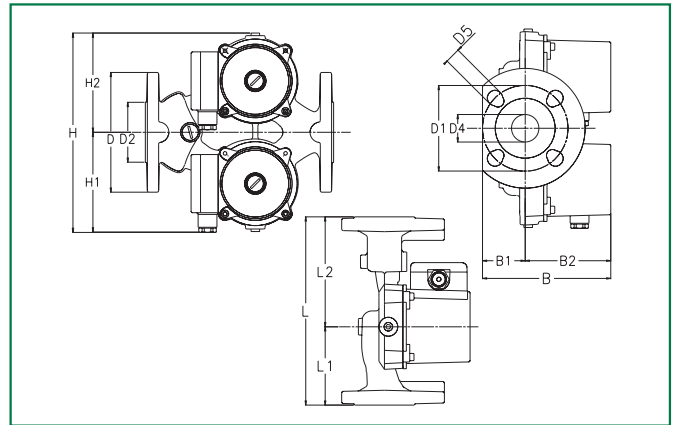
VA 25 - 35 - 55 - 65



VB 35 - 55 - 65



VD 55 - 65



MODEL	L	L1	L2	B	B1	B2	H	H1	H2	D	D1	D2	D4	D5	I	F	PACKING DIMENSIONS			VOLUME m ³	WEIGHT Kg
																	L	B	H		
VA 25/130	130	98	60	104	78	26	124	75	49	-	-	-	-	-	-	1 1/2" G	138	140	135	0,0026	2,65
VA 25/180	180	98	60	104	78	26	124	75	49	-	-	-	-	-	-	1 1/2" G	138	140	135	0,0036	2,8
VA 25/180 X	180	98	60	104	78	26	124	75	49	-	-	-	-	-	-	2" G	138	190	140	0,0036	2,8
VA 35/130	130	98	60	104	78	26	124	75	49	-	-	-	-	-	-	1 1/2" G	138	140	135	0,0026	2,65
VA 35/130 1/2	130	98	60	104	78	26	124	75	49	-	-	-	-	-	-	1" G	138	140	135	0,0026	2,65
VA 35/180	180	98	60	104	78	26	124	75	49	-	-	-	-	-	-	1 1/2" G	138	190	140	0,0036	2,8
VA 35/180 X	180	98	60	104	78	26	124	75	49	-	-	-	-	-	-	2" G	138	190	140	0,0036	2,8
VB 35/120	120	98	60	104	78	26	124	75	49	-	M10	25	-	-	78	-	138	130	145	0,0026	3,15
VA 55/130	130	98	60	104	78	26	124	75	49	-	-	-	-	-	-	1 1/2" G	138	140	135	0,0026	2,65
VA 55/130 1/2	130	98	60	104	78	26	124	75	49	-	-	-	-	-	-	1" G	138	140	135	0,0026	2,65
VA 55/180	180	98	60	104	78	26	124	75	49	-	-	-	-	-	-	1 1/2" G	138	190	140	0,0036	2,8
VA 55/180 X	180	98	60	104	78	26	124	75	49	-	-	-	-	-	-	2" G	138	190	140	0,0036	2,9
VB 55/120	120	98	60	104	78	26	124	75	49	-	M10	25	-	-	80	-	138	130	145	0,0026	3,15
VD 55/220.32	220	91,5	128,5	150	50	100	230	115	115	140	90 PN10	70	32	14 PN10	-	-	161	254	240	0,0085	8,1
VA 65/130	130	98	60	104	78	26	124	75	49	-	-	-	-	-	-	1 1/2" G	138	190	140	0,0036	2,65
VA 65/130 1/2	130	98	60	104	78	26	124	75	49	-	-	-	-	-	-	1" G	138	190	140	0,0036	2,65
VA 65/180	180	98	60	104	78	26	124	75	49	-	-	-	-	-	-	1 1/2" G	185	150	150	0,0036	3,15
VA 65/180 X	180	98	60	104	78	26	124	75	49	-	-	-	-	-	-	2" G	185	150	150	0,0036	3,15
VB 65/120	120	98	60	104	78	26	124	75	49	-	M10	26	-	-	80	-	156	126	150	0,0036	3,15
VD 65/220.32	220	91,5	128,5	150	50	100	230	115	115	120	90	70	32	14	-	-	161	254	240	0,0036	9

CIRCULATORS FOR HOT WATER SYSTEM



Pump for hot water circulation in hot water domestic systems of the closed and pressurised or open tank type. Also suitable for solar power systems. Single body formed of the bronze hydraulic unit. Die-cast aluminium motor casing. Technopolymer impeller. Ceramic driving shaft mounted on graphite bearings lubricated by the pumped liquid itself. Stainless steel protective rotor sleeve, stator sleeve and closing flange. Ceramic thrust bearing, E.P.D.M. "O" rings. The two-pole or four-pole asynchronous motor with wet rotor is self-protected for resistance. **No overload protection required.**



Operating range: from 0.6 to 4.2 m³/h with head up to 6.3 metres.
Liquid temperature range: from + 2°C to + 85°C (for sanitary use) +110°C (for others use).

Pumped liquid characteristics: clean, free from solids and mineral oils, non viscous, chemically neutral, close to the characteristics of water (max 30% glycol).

Maximum working pressure: 10 bar (1000 kPa).

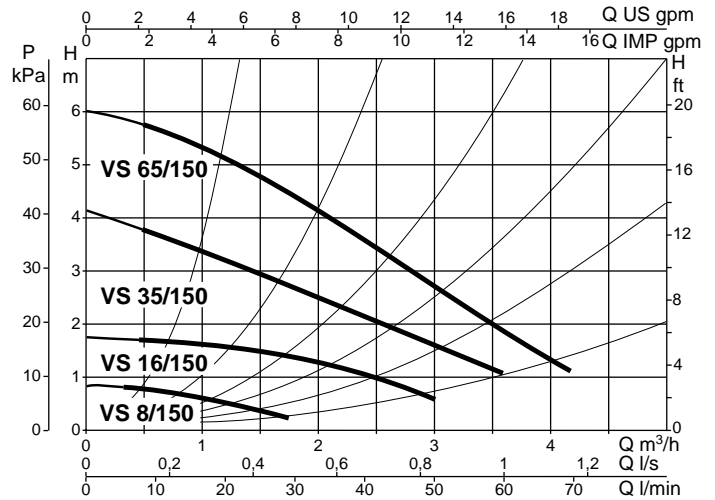
Protection level: IP 44

Insulation class: F

Cable grommet: PG 11

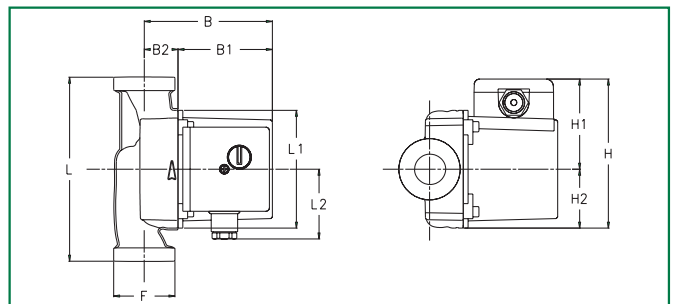
Installation: with motor axis horizontal.

ELECTRICAL AND HYDRAULIC DATA



MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm	UNIONS ON REQUEST	ELECTRICAL DATA					MINIMUM HEAD PRESSURE
				n r.p.m.	P1 MAX W	I _n A	CAPACITOR		
							μF	V _c	
VS 8/150	1x230 V ~	150	BRASS: 1/2" F - 3/4" F - 1" F COPPER: Ø 22 - Ø 28	1225	40	0,23	2	450	t° +60°C m.t. 1,5
VS 16/150	1x230 V ~	150		2680	54	0,25	1,5	450	t° +60°C m.t. 1,5
VS 35/150	1x230 V ~	150		2360	71	0,32	2	450	t° +60°C m.t. 1,5
VS 65/150	1x230 V ~	150		2105	103	0,45	2,5	450	t° +60°C m.t. 1,5

DIMENSIONS AND WEIGHTS



MODEL	L	L1	L2	B	B1	B2	H	H1	H2	F	PACKING DIMENSIONS			VOLUME m ³	WEIGHT Kg
											L	B	H		
VS 8/150	150	98	60	104	78	26	124	75	49	1 1/2" G	130	185	135	0,0032	2,6
VS 16/150	150	98	60	104	78	26	124	75	49	1 1/2" G	130	185	135	0,0032	2,6
VS 35/150	150	98	60	104	78	26	124	75	49	1 1/2" G	130	185	135	0,0032	2,6
VS 65/150	150	98	60	104	78	26	124	75	49	1 1/2" G	130	185	135	0,0032	2,6



CIRCULATORS

FOR HEATING AND AIR CONDITIONING SYSTEMS



Pump body in cast iron and motor casing in die-cast aluminium. Technopolymer impeller and tempered stainless steel driving shaft mounted on graphite bearings lubricated by the pumped liquid itself. Flanged vents, (threaded series A), provided with threaded connectors for controlling gauges. Stainless steel protective rotor sleeve, stator sleeve and closing flange. Ceramic thrust bearing, E.P.D.M. "O" rings and brass air outlet cap. The two-pole asynchronous motor with wet rotors designed for three-speed operation. Thermal overload protection incorporated in the single phase version. In the twin version an automatic clapet type valve and blank flange are provided.

Operating range: from 1 to 12 m³/h with head up to 8 metres.
Liquid temperature range: from -10°C to +110°C.
Pumped liquid characteristics: clean, free from solids and mineral oils, not viscous, chemically neutral, close to the characteristics of water (max 30% glycol).
Maximum working pressure: 10 bar (1000 kPa).
Protection level: IP 44
Insulation class: F
Cable grommet: PG 11
Installation: with motor axis horizontal.

ELECTRICAL DATA

SINGLE WITH UNIONS

MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm	UNIONS OR FLANGES ON REQUEST	ELECTRICAL DATA						MINIMUM HEAD PRESSURE
				SPEED	n r.p.m.	P1 MAX W	I _n A	CAPACITOR μF V _c		
A 20/180 XM	1x230 V ~	180	1 1/4" F	3	1355	76	0,34	2,5	400	t° +90°C m.t. 1,5
				2	1205	58	0,27			
				1	935	40	0,19			
A 50/180 XM	1x230 V ~	180	1 1/4" F	3	2710	160	0,72	4	400	t° +90°C m.t. 1,5
				2	2540	148	0,68			
				1	1715	140	0,66			
A 50/180 XT	3x400 V ~	180	1 1/4" F	2	2814	201	0,50	-	-	t° +90°C m.t. 1,5
				1	2562	129	0,23			
A 56/180 XM	1x230 V ~	180	1 1/4" F	3	2685	258	1,13	7	400	t° +90°C m.t. 1,5
				2	2440	242	1,10			
				1	1640	214	0,98			
A 56/180 XT	3x400 V ~	180	1 1/4" F	2	2790	227	0,53	-	-	t° +90°C m.t. 1,5
				1	2441	150	0,25			
A 80/180 XM	1x230 V ~	180	1 1/4" F	3	2710	244	1,08	7	400	t° +90°C m.t. 2,5
				2	2470	236	1,07			
				1	1730	207	0,95			
A 80/180 XT	3x400 V ~	180	1 1/4" F	2	2771	239	0,53	-	-	t° +90°C m.t. 2,5
				1	2339	163	0,27			

SINGLE WITH FLANGES

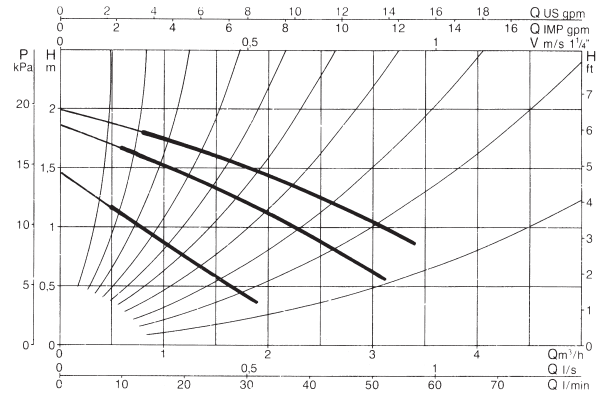
B 50/250.40 M	1x230 V ~	250	DN 40 - PN 10	3	2710	160	0,72	4	400	t° +90°C m.t. 1,5
				2	2540	148	0,68			
				1	1715	140	0,66			
B 50/250.40 T	3x400 V ~	250	DN 40 - PN 10	2	2814	201	0,50	-	-	t° +90°C m.t. 1,5
				1	2562	129	0,23			
B 56/250.40 M	1x230 V ~	250	DN 40 - PN 10	3	2685	258	1,13	7	400	t° +90°C m.t. 1,5
				2	2440	242	1,10			
				1	1640	214	0,98			
B 56/250.40 T	3x400 V ~	250	DN 40 - PN 10	2	2790	227	0,53	-	-	t° +90°C m.t. 1,5
				1	2441	150	0,25			
B 80/250.40 M	1x230 V ~	250	DN 40 - PN 10	3	2710	244	1,08	7	400	t° +90°C m.t. 2,5
				2	2470	236	1,07			
				1	1730	207	0,95			
B 80/250.40 T	3x400 V ~	250	DN 40 - PN 10	2	2771	239	0,53	-	-	t° +90°C m.t. 2,5
				1	2339	163	0,27			

TWIN WITH FLANGES

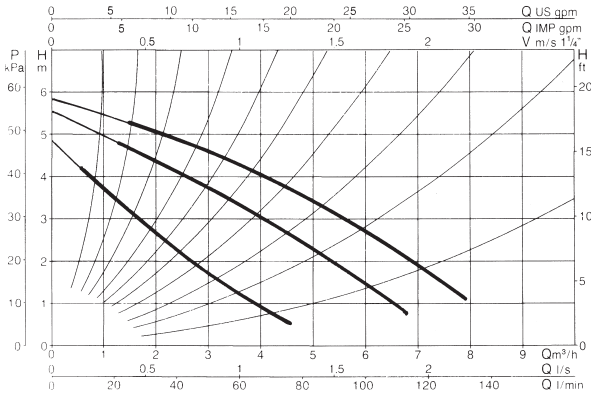
D 50/250.40 M	1x230 V ~	250	DN 40 - PN 10	3	2710	160	0,72	4	400	t° +90°C m.t. 1,5
				2	2540	148	0,68			
				1	1715	140	0,66			
D 50/250.40 T	3x400 V ~	250	DN 40 - PN 10	2	2814	201	0,50	-	-	t° +90°C m.t. 1,5
				1	2562	129	0,23			
D 56/250.40 M	1x230 V ~	250	DN 40 - PN 10	3	2685	258	1,13	7	400	t° +90°C m.t. 1,5
				2	2440	242	1,10			
				1	1640	214	0,90			
D 56/250.40 T	3x400 V ~	250	DN 40 - PN 10	2	2790	227	0,53	-	-	t° +90°C m.t. 1,5
				1	2441	150	0,25			
D 80/250.40 M	1x230 V ~	250	DN 40 - PN 10	3	2710	244	1,08	7	400	t° +90°C m.t. 2,5
				2	2470	236	1,07			
				1	1730	207	0,95			
D 80/250.40 T	3x400 V ~	250	DN 40 - PN 10	2	2771	239	0,53	-	-	t° +90°C m.t. 2,5
				1	2339	163	0,27			

HYDRAULIC DATA

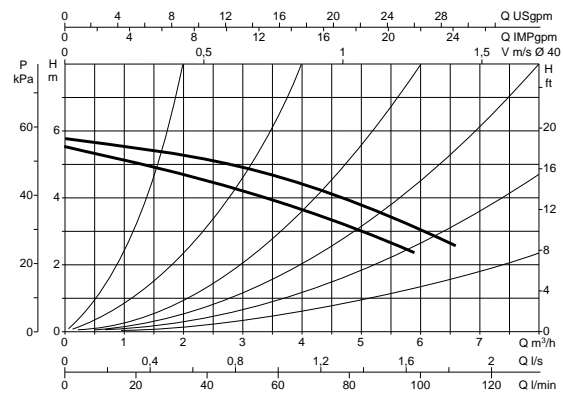
A 20



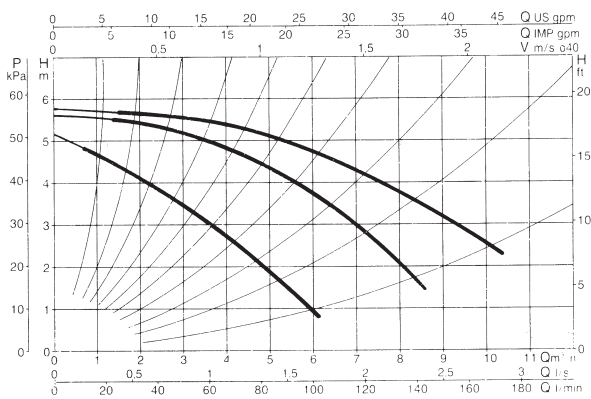
A 50 M - B 50 M - D 50 M*



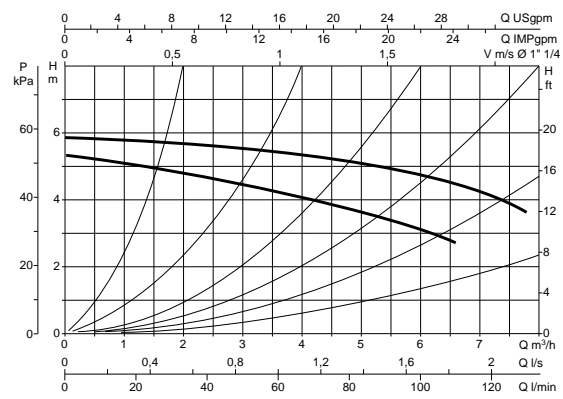
A 50 T - B 50 T - D 50 T*



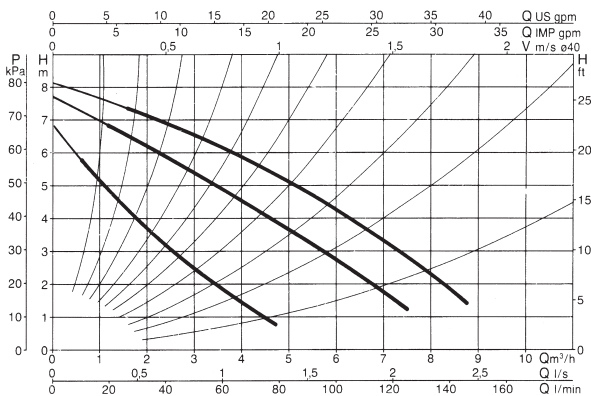
A 56 M - B 56 M - D 56 M*



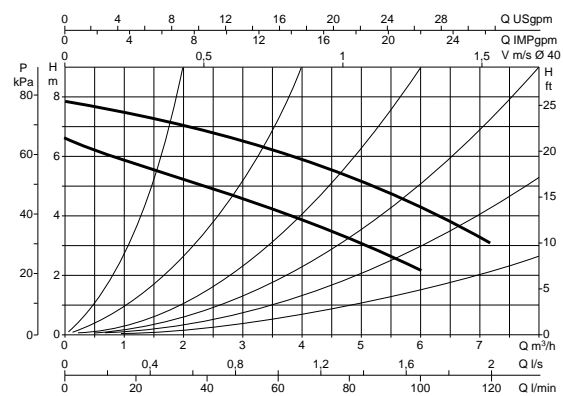
A 56 T - B 56 T - D 56 T*



A 80 M - B 80 M - D 80 M*



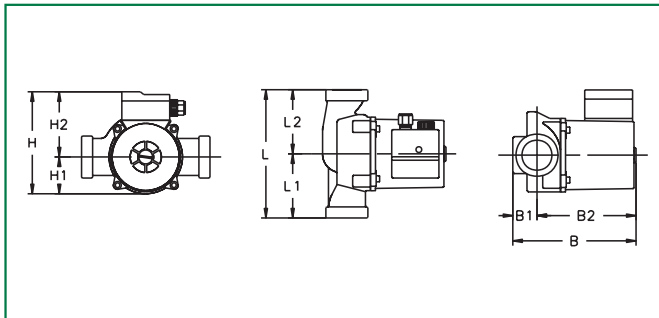
A 80 T - B 80 T - D 80 T*



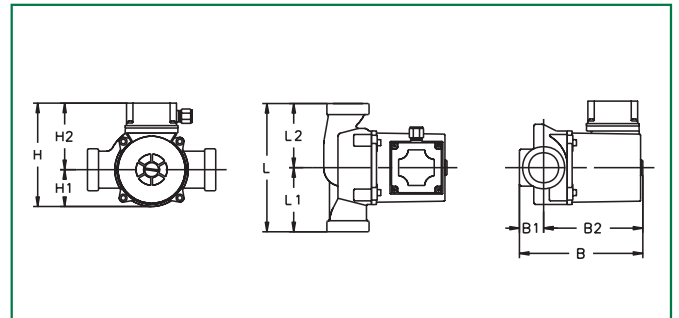
* The electrical and hydraulic data for the twin versions are related to only one motor in operation.

DIMENSIONS AND WEIGHTS

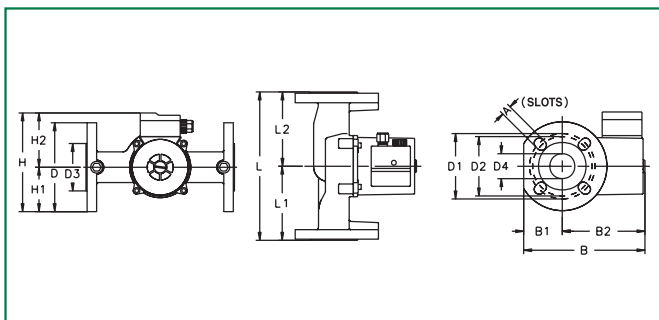
A 20-50-56-80/...M



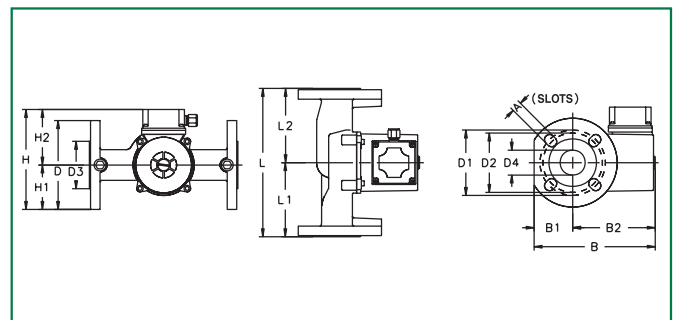
A 50-56-80/...T



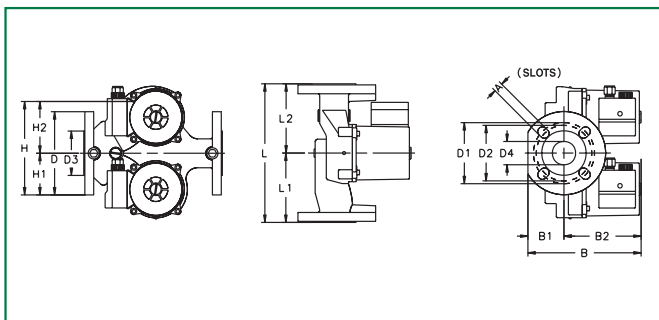
B 50-56-80/...M



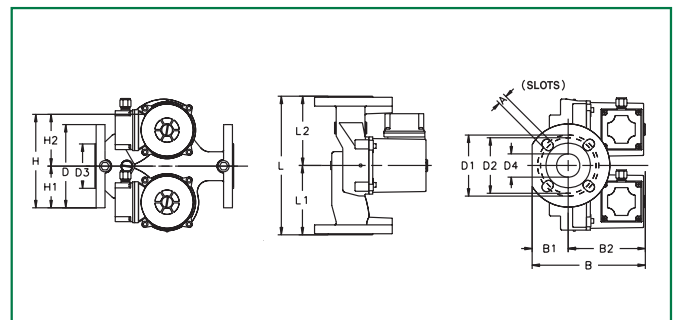
B 50-56-80/...T



D 50-56-80/...M



D 50-56-80/...T



MODEL	L	L1	L2	A	B	B1	B2	D	D1	D2	D3	D4	H	H1	H2	F	WEIGHT Kg
A 20/180 XM	180	90	90	–	175	34	141	–	–	–	–	–	145	52	93	2" G	4,8
A 50/180 XM	180	90	90	–	175	34	141	–	–	–	–	–	145	52	93	2" G	4,8
A 50/180 XT	180	90	90	–	175	34	141	–	–	–	–	–	148	52	96	2" G	5
A 56/180 XM	180	90	90	–	175	34	141	–	–	–	–	–	165	52	113	2" G	4,8
A 56/180 XT	180	90	90	–	175	34	141	–	–	–	–	–	148	52	96	2" G	5
A 80/180 XM	180	90	90	–	175	34	141	–	–	–	–	–	165	52	113	2" G	4,8
A 80/180 XT	180	90	90	–	175	34	141	–	–	–	–	–	148	52	96	2" G	5
B 50/250.40 M	250	125	125	17	205	65	140	150	110	100	80	40	167	75	92	–	8,6
B 50/250.40 T	250	125	125	17	205	65	140	150	110	100	80	40	171	75	96	–	8,8
B 56/250.40 M	250	125	125	17	205	65	140	150	110	100	80	40	188	75	113	–	8,6
B 56/250.40 T	250	125	125	17	205	65	140	150	110	100	80	40	171	75	96	–	8,8
B 80/250.40 M	250	125	125	17	205	65	140	150	110	100	80	40	188	75	113	–	8,6
B 80/250.40 T	250	125	125	17	205	65	140	150	110	100	80	40	171	75	96	–	8,8
D 50/250.40 M	250	120	130	17	205	65	140	150	110	100	80	40	250	122	128	–	14,1
D 50/250.40 T	250	120	130	17	205	65	140	150	110	100	80	40	322	161	161	–	14,6
D 56/250.40 M	250	120	130	17	205	65	140	150	110	100	80	40	250	122	128	–	14,2
D 56/250.40 T	250	120	130	17	205	65	140	150	110	100	80	40	366	183	183	–	14,8
D 80/250.40 M	250	120	130	17	205	65	140	150	110	100	80	40	250	122	128	–	14,2
D 80/250.40 T	250	120	130	17	205	65	140	150	110	100	80	40	322	161	161	–	14,6



ELECTRONIC CIRCULATORS FOR HEATING SYSTEMS



The VEA circulator has a built-in electronic control device that can detect the variations in the rate of flow required by the central heating system and adapt its performance automatically according to plant requirements.
Pump body in die cast iron and motor casing in aluminium.
Technopolymer impeller. Stainless steel driving shaft, protective rotor sleeve, separator tube section and closing flange.
Ceramic thrust bearing, E.P.D.M. O-rings.
Rotor mounted on graphite bearings. The two-pole, asynchronous motor with wet rotor is self-protected for resistance. **No overload protection required.**

Operating range: from 0.5 to 3.5 m³/h with head up to 5 metres.

Liquid temperature range: from +2°C to +95°C.

Pumped liquid characteristics: clean, free from solids and mineral oils, non viscous, chemically neutral, close to the characteristics of water (glycolic max 30%).

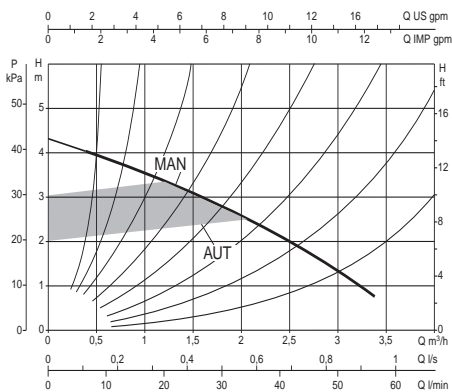
Maximum working pressure: 10 bar (1000 kPa).

Protection level: Δ corresponding to IP 42

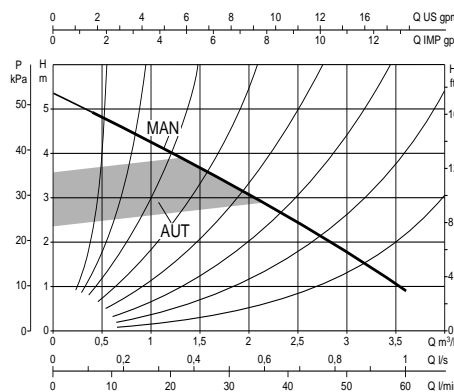
Insulation class: F

Cable grommet: PG 11

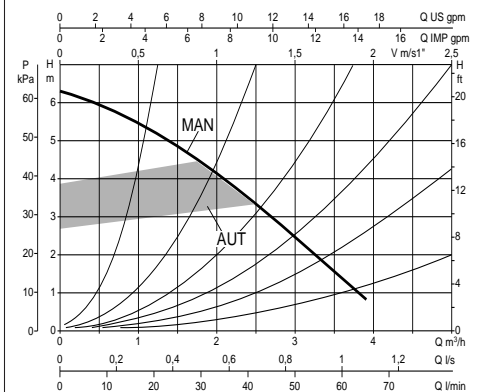
VEA 35 - VEB 35



VEA 55 - VEB 55



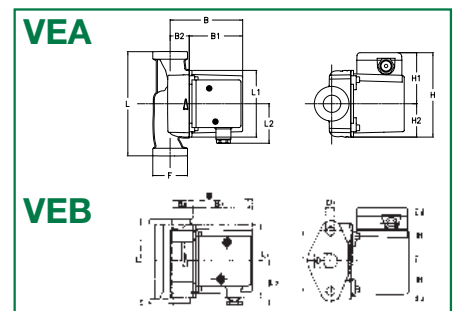
VEA 65 - VEB 65



MODEL	VOLTAGE 50 Hz	CENTRE DISTANCE mm	UNIONS ON REQUEST		SPEED	ELECTRICAL DATA				MINIMUM HEAD PRESSURE
			STANDARD	SPECIAL		P1 MAX W	In A	CAPACITOR μ F	Vc	
VEA 35/130	1x230 V ~	130	1" F	3/4" F - 1 1/4" M	MIN MAX	32 78	0.13 0.33	2	400	t° +90°C m.t. 1,5
VEA 35/180	1x230 V ~	180	1" F	3/4" F - 1 1/4" M	MIN MAX	32 78	0.13 0.33	2	400	t° +90°C m.t. 1,5
VEA 35/180 X	1x230 V ~	180	1 1/4" F	-	MIN MAX	32 78	0.13 0.33	2	400	t° +90°C m.t. 1,5
VEB 35/120	1x230 V ~	120	DN25	DN20-DN32	MIN MAX	36 71	0.17 0.31	2	400	t° +90°C m.t. 1,5
VEA 55/130	1x230 V ~	130	1" F	3/4" F - 1 1/4" M	MIN MAX	38 95	0.17 0.40	2,5	400	t° +90°C m.t. 1,5
VEA 55/180	1x230 V ~	180	1" F	3/4" F - 1 1/4" M	MIN MAX	38 95	0.17 0.40	2,5	400	t° +90°C m.t. 1,5
VEA 55/180 X	1x230 V ~	180	1 1/4" F	-	MIN MAX	38 95	0.17 0.40	2,5	400	t° +90°C m.t. 1,5
VEB 55/120	1x230 V ~	120	DN25	DN20-DN32	MIN MAX	45 82	0.20 0.36	2,5	400	t° +90°C m.t. 1,5
VEA 65/130	1x230 V ~	130	1" F	3/4" F - 1 1/4" M	MIN MAX	46 102	0.20 0.45	2,5	400	t° +90°C m.t. 1,5
VEA 65/180	1x230 V ~	180	1" F	3/4" F - 1 1/4" M	MIN MAX	46 102	0.20 0.45	2,5	400	t° +90°C m.t. 1,5
VEA 65/180 X	1x230 V ~	180	1 1/4" F	-	MIN MAX	46 102	0.20 0.45	2,5	400	t° +90°C m.t. 1,5
VEB 65/120	1x230 V ~	120	DN25	DN20-DN32	MIN MAX	46 102	0.20 0.45	2,5	400	t° +90°C m.t. 1,5

MODEL	L	L1	L2	B	B1	B2	H	H1	H2	F
VEA 35/130 - VEA 55/130 - VEA 65/130	130	98	65	104	78	26	130	61	49	1 1/2"
VEA 35/180 - VEA 55/180 - VEA 65/180	180	98	65	104	78	26	130	61	49	1 1/2"
VEA 35/180X - VEA 55/180X - VEA 65/180X	180	98	65	104	78	26	130	61	49	2"

MODEL	L	L1	L2	B	B1	B2	H	H1	H2	D	D1	I
VEB 35/120 - VEB 55/120 - VEB 65/120	130	98	65	104	78	26	130	61	49	26	10	80



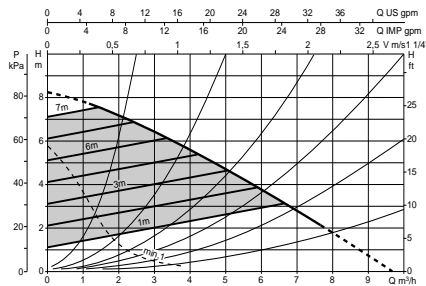
ELECTRONIC CIRCULATORS FOR HEATING SYSTEM



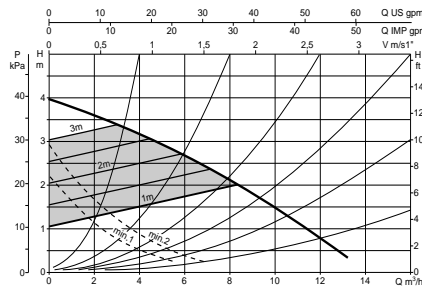
- Wet rotor pump
- Cast iron pump body
- Motor shaft in hardened stainless steel
- Rotor protection jacket in stainless steel
- Self-protected motor with built-in overload protection
- Zero potential contact for signalling operation and malfunctions.
- Possibility of economical running (min. 1)
- **Operating range:** from 0.5 to 120 m³/h with head up to 11,5 metres.

- **Characteristics of pumped liquid:** clean, free from solids and mineral oils, non viscous, chemically neutral, close to the characteristics of water.
- **Maximum operating pressure:** 6 bar (special execution on request 16 bar)
- **Maximum water operating temperature:** from +15°C to +95°C
- **Insulation class:** H
- **Cable grommet:** PG 16
- **Protection level:** IP 42
- **Product in compliance with the European Standard EN 60335-2-51.**

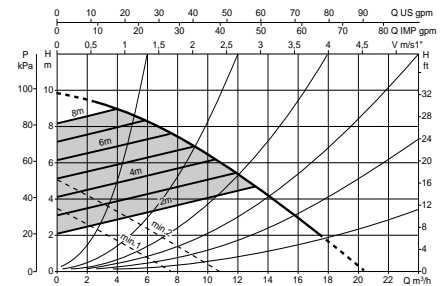
VEA 80/180



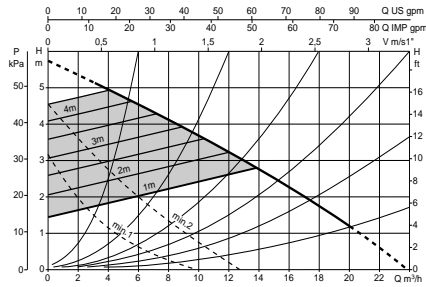
VEA 40/190 - VEB 40/250.40



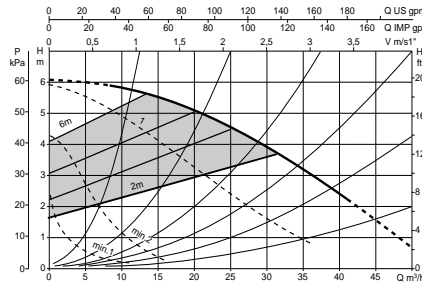
VEB 100/250.40



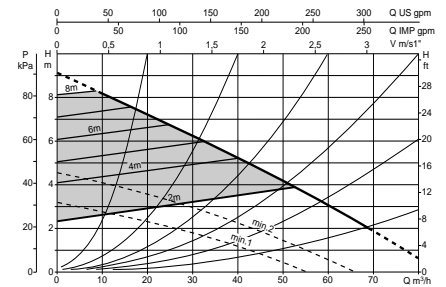
VEB 55/270.50



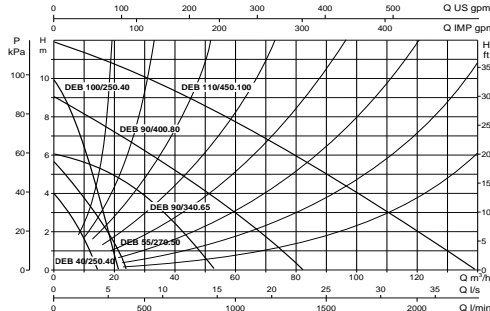
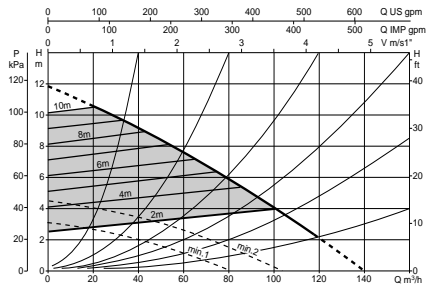
VEB 90/340.65



VEB 90/400.80



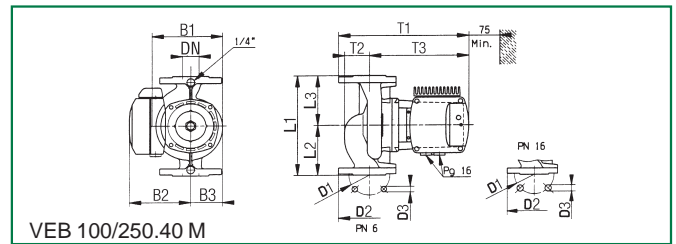
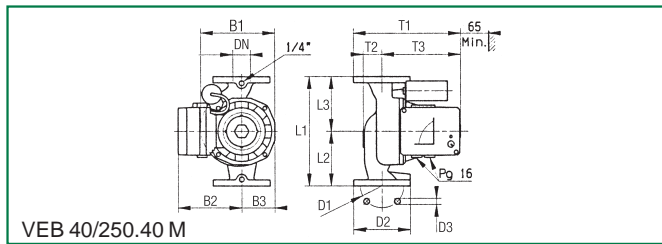
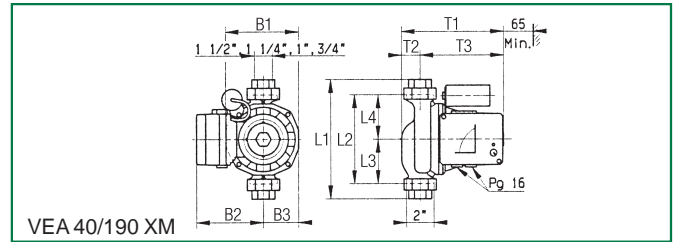
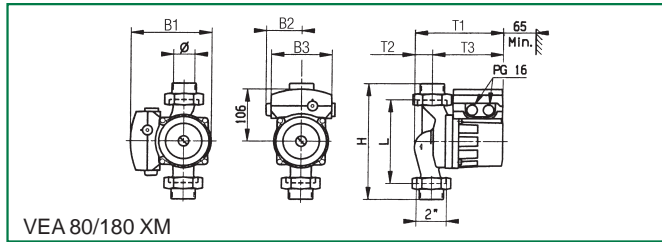
VEB 110/450.100



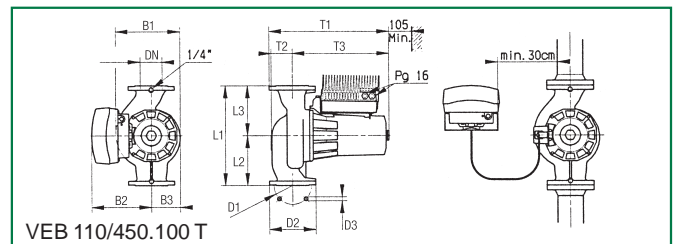
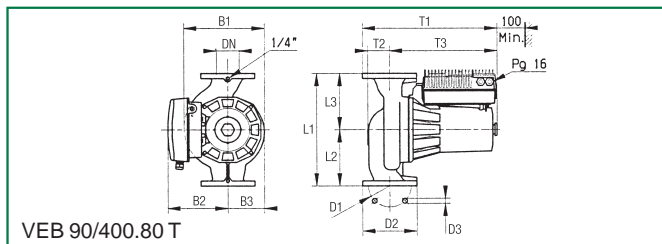
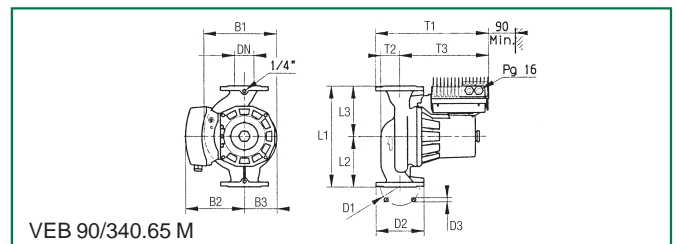
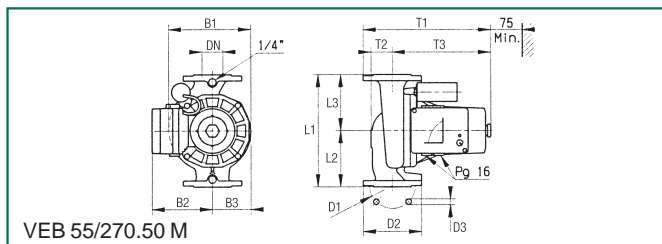
**Twin pump:
hydraulic performances
with two heads working**

MODEL		CENTRE DISTANCE mm	ELECTRICAL DATA							Min. 1 (economical running)			WEIGHT Kg	
SINGLE	TWIN		VOLTAGE 50 Hz	SPEED	n r.p.m.	P1 MAX W	In A	CAPACITOR μF Vc	n r.p.m.	P1 MAX W	In A	SINGLE	TWIN	
VEA 80/180 XM	-	180	1x230 V-	MIN MAX	1100 2800	65 250	65 250	1,5 450	900	130	0,6	4,5	-	
VEA 40/190 XM	-	190	1x230 V-	MIN MAX	700 1350	110 230	0,6 1,1	6 400	600 750	120	0,7	11	-	
VEB 40/250.40 M	DEB 40/250.40 M	250	1x230 V-	MIN MAX	700 1350	110 230	0,6 1,1	6 400	600 750	120	0,7	11	19	
VEB 100/250.40 M	DEB 100/250.40 M	250	1x230 V-	MIN MAX	1050 2850	80 450	0,45 2	10 320	1050	110	0,6	17	29	
VEB 55/270.50 M	DEB 55/270.50 M	270	1x230 V-	MIN MAX	800 1350	220 440	1,3 2,0	10 400	600 800	230	1,4	17	29	
VEB 90/340.65 M	DEB 90/340.65 M	340	1x230 V-	MAX	1400	920	4,1	16 400	900	140	0,8	29	57	
VEB 90/400.80 T	DEB 90/400.80 T	400	3x400 V-	MAX	1700	1630	4,2	- -	800	250	1,0	50	108	
VEB 110/450.100 T	DEB 110/450.100 T	450	3x400 V-	MAX	1700	2800	6,0	- -	800	400	1,0	75	153	

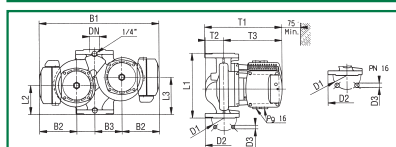
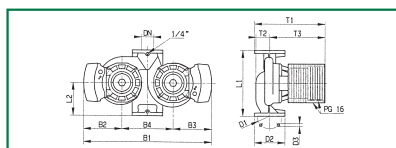
DIMENSIONS



MODEL	DN	B1	B2	B3	PN 6			PN 16			L1	L2	L3	L4	T1	T2	T3
					D1	D2	D3	D1	D2	D3							
VEA 80/180	-	160	70	120	-	-	-	-	-	-	-	-	-	175,5	34,5	141	
VEA 40/190	-	158	145	76	-	-	-	-	-	-	255	190	95	95	221	40	181
VEB 40/250.40	40	169	145	76	100	130	14	110	150	18	250	125	125	-	246	43	181
VEB 100/250.40	40	171	148	78	100	150	14	110	150	18	250	125	125	-	318	61	243
VEB 55/270.50	50	197	145	92	110	140	14	125	165	18	270	135	135	-	305	51	235



MODEL	DN	B1	B2	B3	PN 6			PN 16			L1	L2	L3	T1	T2	T3
					D1	D2	D3	D1	D2	D3						
VEB 90/340.65	65	244	201	109	130	185	14	145	185	18	340	170	170	384	73	291
VEB 90/400.80	80	284	212	129	150	190	18	160	200	18	400	200	200	475	76	380
VEB 110/450.100	100	294	273	131	170	210	18	180	220	18	450	225	225	545	96	440



MODEL	DN	B1	B2	B3	B4	PN 6			PN 16			L1	L2	T1		T2	T3
						D1	D2	D3	D1	D2	D3			PN 6	PN 16		
DEB 40/250.40	40	490	145	145	200	100	130	4x14	110	150	4x18	250	125	242	252	47	177
DEB 100/250.40	40	475	148	108	-	100	150	14	110	150	18	250	144	306	-	73	231
DEB 55/270.50	50	510	145	145	220	110	140	4x14	125	165	4x18	270	135	299	312	54	229
DEB 90/340.65	65	664	198	198	268	130	160	4x14	145	185	4x18	340	170	370	383	75	290
DEB 90/400.80	80	746	212	212	322	150	190	4x18	160	200	8x18	400	200	456	461	92	361
DEB 110/450.100	100	886	273	273	340	170	210	4x18	180	220	8x18	450	225	524	529	117	419

* Only on request