
VA


VD


VB

ONLY FOR EXTRA EU MARKETS

TECHNICAL DATA

Operating range: from 0.5 to 3,6 m3/h with head up to 6 metres.
Pumped liquid temperature range: from -10°C to +110°C.
Pumped liquid: clean, free from solids and mineral oils, non viscous, chemically neutral, close to the characteristics of water (max 30% glycol).
Maximum operating pressure: 10 bar (1000 kPa).
Minimum suction pressure: the values are given in the relative tables.
Installation: with HORIZONTAL MOTOR SHAFT on discharge or return pipe, with suction port as close as possible to expansion vessel, above maximum boiler level and as far as possible from bends, elbows, and circuit branches to avoid water turbulence with consequent noise.
Protection level: corresponding to IP 44
Insulation class: F
Cable grommet: PG 11
Special executions on requests: alternative voltages and/or frequencies.
Optional accessories: r$^{3}/_{4}$"F - 1"F - 1$^{1}/_{4}$"F - 1$^{1}/_{4}$"M unions
DN20-DN25-DN32 oval counter-flanges
DN32/PN6 round counter-flanges

APPLICATIONS

Pump for hot water circulation in domestic central heating and air conditioning systems of the closed circuit pressurized type or open circuit type.

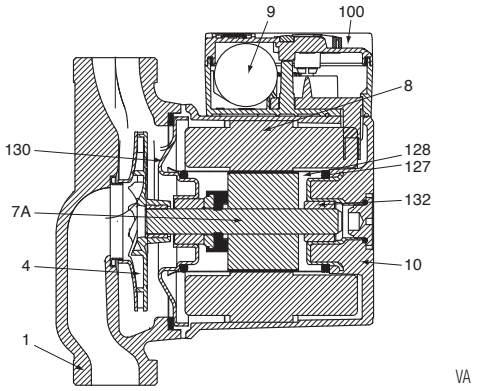
CONSTRUCTION FEATURES

Enbloc body composed of hydraulic section in cast iron and wet rotor motor. Motor casing in die cast aluminium. Impeller in technopolymer. Motor shaft in hardened stainless steel held in graphite bearings lubricated by the pumping medium.
Rotor protective jacket, stator jacket, and closing flange in stainless steel.
Ceramic thrust ring, ethylene-propylene seal rings and brass air breather plug. The two-pole asynchronous wet-rotor motor is resistance protected and does not require any form of overload protection.
Three-speed operation.
Protection rating: IP 44
Insulation class: F
Cable gland: PG 11
Installation: with horizontal motor shaft.
Standard voltage input: single-phase 230 V / 50 Hz
Special versions on request - alternative voltages and/or frequencies

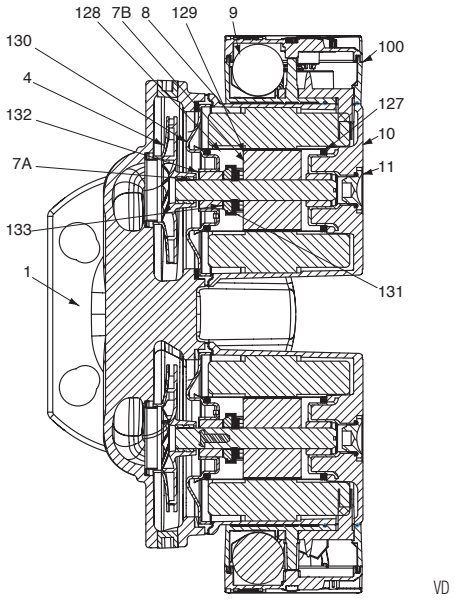
DAB PUMPS reserves the right to make modifications without notice.

MATERIALS

N.	PARTS	MATERIALS
1	PUMP BODY	CAST IRON
4	IMPELLER	TECHNOPOLYMER
7A	MOTOR SHAFT	STAINLESS STEEL
7B	ROTOR	–
8	STATOR	–
9	CAPACITOR	–
10	MOTOR CASING	DIE CAST ALUMINIUM
11	BREATHER PLUG	BRASS
100	TERMINAL BOX	–
127	SEAL RING	ETHYLENE POLYPROPYLENE
128	STATOR JACKET	STAINLESS STEEL
129	ROTOR JACKET	STAINLESS STEEL
130	CLOSING FLANGE	STAINLESS STEEL
131	THRUST RING SUPPORT	ETHYLENE PROPYLENE
132	BUSHINGS	GRAPHITE
133	THRUST RING	CERAMIC



VA



VD

– Legend:
(example)

VA 55 / 180 X

VA = single circulator
VB = circulator with DN 25 oval flanges
VD = twin circulator

maximum head (dm)

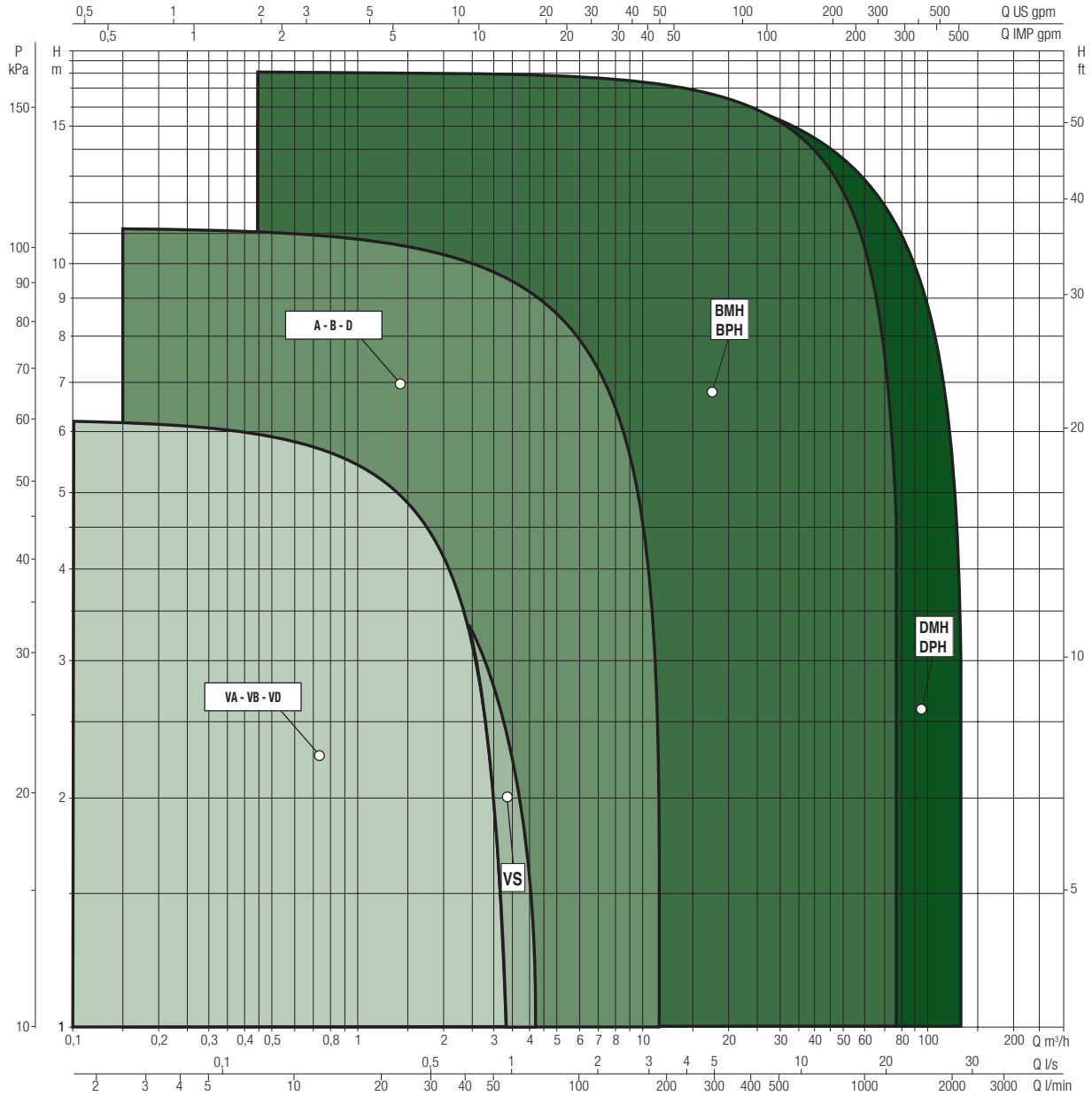
centre distance (mm)

standard (no ref.) = 1" 1/2 threaded ports
1/2" = 1" threaded ports
X = 2" threaded ports
32 = DN32/PN6/10 flanged ports

PERFORMANCE RANGE

The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

GRAPHIC SELECTION TABLE



SELECTION TABLE - VA *SINGLE WITH UNIONS*

MODEL	Q=m³/h	0	0,6	1,2	1,8	2,4	3	4,2
	Q=l/min	0	10	20	30	40	50	70
VA 25/130	H (m)	2,71	2,45	2,15	1,75	1,2	0,6	
VA 25/180		2,71	2,45	2,15	1,75	1,2	0,6	
VA 25/180X		2,71	2,45	2,15	1,75	1,2	0,6	
VA 35/130		4,3	3,9	3,4	2,8	2,15	1,4	
VA 35/130-1/2"		4,3	3,9	3,4	2,8	2,15	1,4	
VA 35/180		4,3	3,9	3,4	2,8	2,15	1,4	
VA 35/180 X		4,3	3,9	3,4	2,8	2,15	1,4	
VA 55/130		5,4	4,7	4,5	3,3	2,6	1,75	0,85
VA 55/130-1/2"		5,4	4,7	4,5	3,3	2,6	1,75	0,85
VA 55/180		5,4	4,7	4,5	3,3	2,6	1,75	0,85
VA 55/180 X		5,4	4,7	4,5	3,3	2,6	1,75	0,85
VA 65/130		6,3	5,8	5,3	4,3	3,4	2,4	
VA 65/130-1/2"		6,3	5,8	5,3	4,3	3,4	2,4	
VA 65/180		6,3	5,8	5,3	4,3	3,4	2,4	
VA 65/180 X		6,3	5,8	5,3	4,3	3,4	2,4	

SELECTION TABLE - VB *SINGLE WITH OVAL FLANGES*

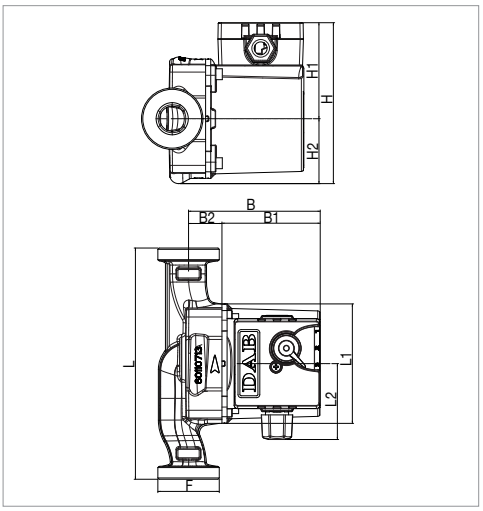
MODEL	Q=m³/h	0	0,6	1,2	1,8	2,4	3	4,2
	Q=l/min	0	10	20	30	40	50	70
VB 35/120	H (m)	4,3	3,9	3,4	2,8	2,15	1,4	
VB 55/120		5,4	4,7	4	3,3	2,5	1,75	0,85
VB 65/120		6,3	5,8	5,3	4,3	3,4	2,4	

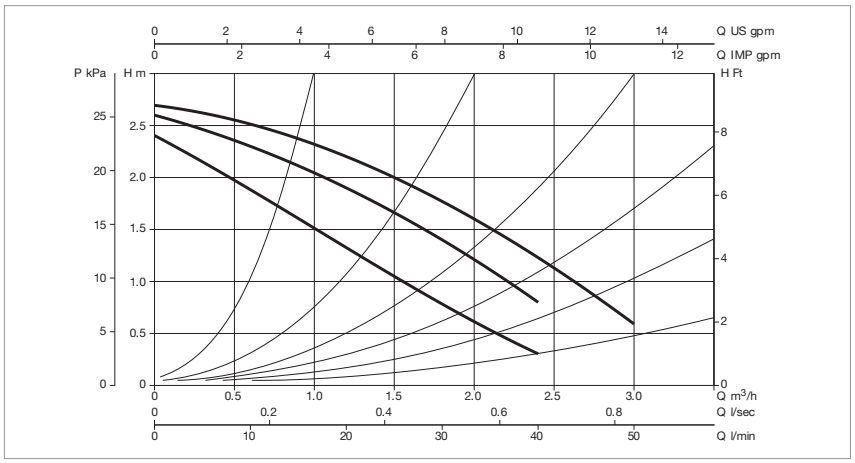
SELECTION TABLE - VD *TWIN WITH FLANGES*

MODEL	Q=m³/h	0	0,6	1,2	1,8	2,4	3	4,2
	Q=l/min	0	10	20	30	40	50	70
VD 55/220.32	H (m)	5,4	4,7	4,5	3,3	2,6	1,75	0,85
VD 65/220.32		6,3	5,8	5,3	4,3	3,4	2,4	

VA 25/130 - HEATING AND AIR CONDITIONING SYSTEMS

Pumped liquid temperature range: from -10 °C to +110 °C - **Maximum operating pressure:** 10 bar (1000 kPa)





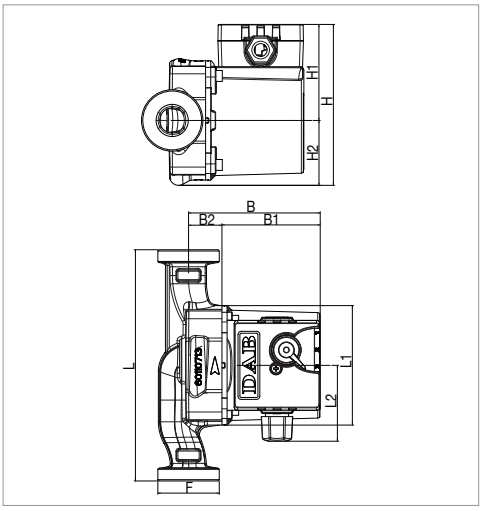
The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

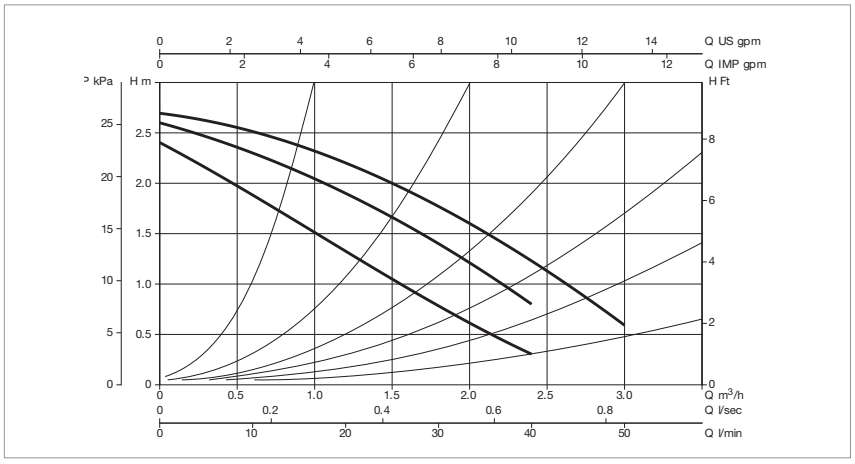
MODEL	CENTRE DISTANCE mm	POWER INPUT 50 Hz	UNIONS ON REQUEST		ELECTRICAL DATA						MINIMUM SUCTION PRESSURE	
			STANDARDISED	SPECIAL	SPEED	REV. 1/min	P1 MAX W	In A	CAPACITOR µF	CAPACITOR Vc	t°	90 °
VA 25/130	130	1x230 V ~	1" F	¾" F - 1¼" M	3 2 1	2655 2380 1680	43 38 31	0,19 0,17 0,15	1,5	450	m.c.a.	1,5

MODEL	L	L1	L2	B	B1	B2	H	H1	H2	F	PACKING DIMENSIONS			VOLUME m³	WEIGHT kg
											L	B	H		
VA 25/130	130	93	59	102,5	76,5	26	125,5	75	50,5	48	135	135	150	0,0027	2,5

VA 25/180 - HEATING AND AIR CONDITIONING SYSTEMS

Pumped liquid temperature range: from -10 °C to +110 °C - **Maximum operating pressure:** 10 bar (1000 kPa)





The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

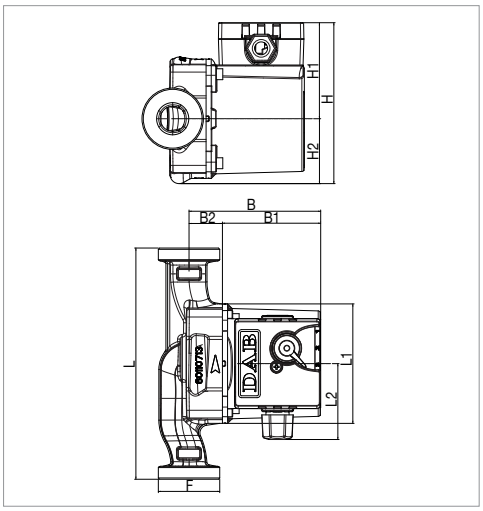
MODEL	CENTRE DISTANCE mm	POWER INPUT 50 Hz	UNIONS ON REQUEST		ELECTRICAL DATA						MINIMUM SUCTION PRESSURE	
			STANDARDISED	SPECIAL	SPEED	REV. 1/min	P1 MAX W	In A	CAPACITOR µF	CAPACITOR Vc	t°	90 °
VA 25/180	180	1x230 V ~	1" F	¾" F - 1¼" M	3 2 1	2655 2380 1680	43 38 31	0,19 0,17 0,15	1,5	450	m.c.a.	1,5

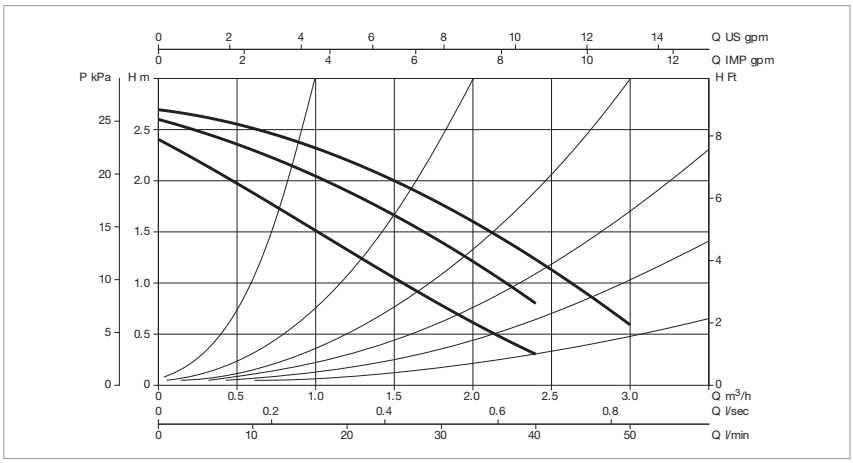
MODEL	L	L1	L2	B	B1	B2	H	H1	H2	F	PACKING DIMENSIONS			VOLUME m³	WEIGHT kg
											L	B	H		
VA 25/180	180	93	59	102,5	76,5	26	125,5	75	50,5	48	130	190	150	0,0037	2,6

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VA 25/180X - HEATING AND AIR CONDITIONING SYSTEMS

Pumped liquid temperature range: from -10 °C to +110 °C - **Maximum operating pressure:** 10 bar (1000 kPa)





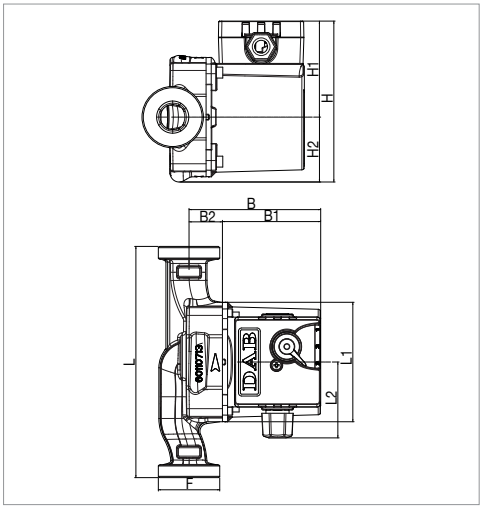
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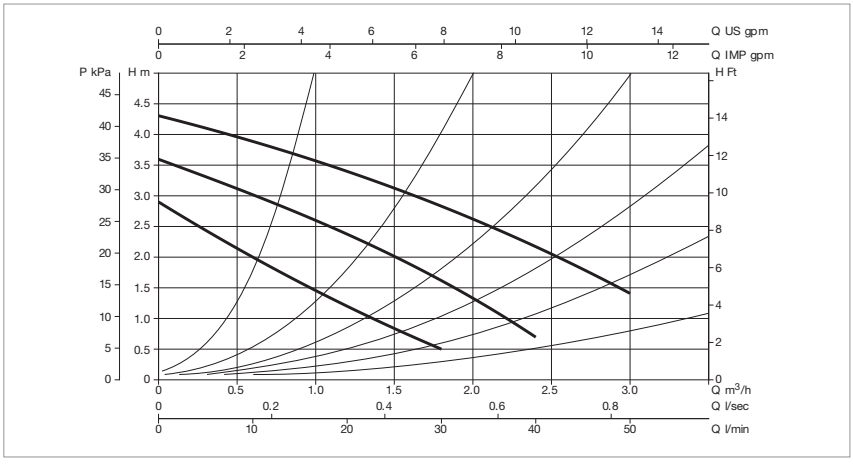
MODEL	CENTRE DISTANCE mm	POWER INPUT 50 Hz	UNIONS ON REQUEST	ELECTRICAL DATA						MINIMUM SUCTION PRESSURE	
			STANDARDISED	SPEED	REV. 1/min	P1 MAX W	In A	CAPACITOR µF	CAPACITOR Vc	t°	90 °
VA 25/180X	180	1x230 V ~	1" ¼" F	3 2 1	2655 2380 1680	43 38 31	0,19 0,17 0,15	1,5	450	m.c.a.	1,5

MODEL	L	L1	L2	B	B1	B2	H	H1	H2	F	PACKING DIMENSIONS			VOLUME m³	WEIGHT kg
											L	B	H		
VA 25/180X	180	93	59	102,5	76,5	26	125,5	75	50,5	48	130	190	150	0,0037	2,6

VA 35/130 - HEATING AND AIR CONDITIONING SYSTEMS

Pumped liquid temperature range: from -10 °C to +110 °C - **Maximum operating pressure:** 10 bar (1000 kPa)





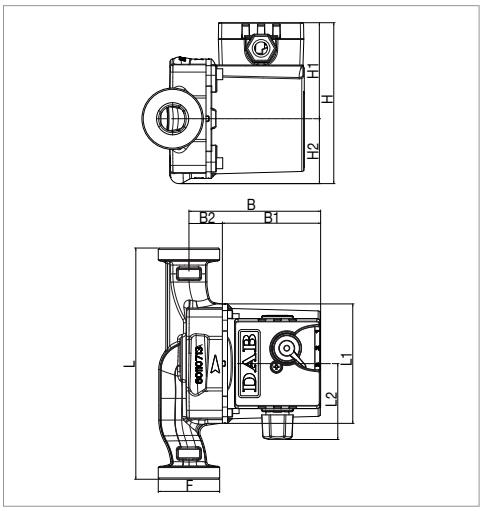
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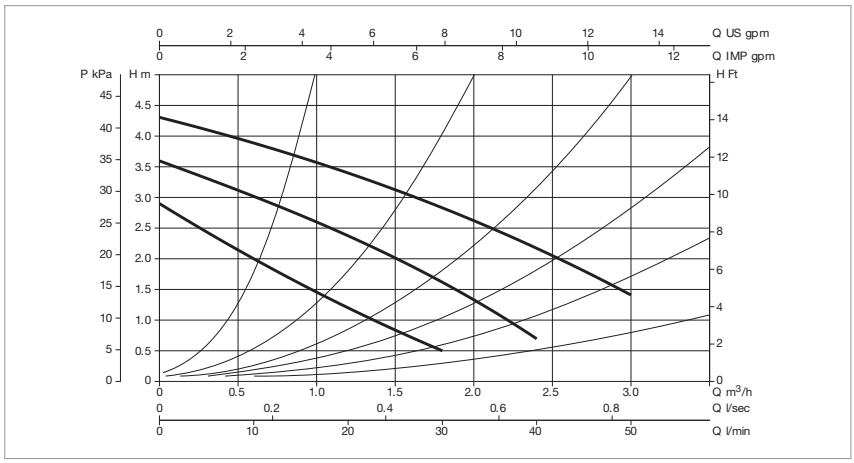
MODEL	CENTRE DISTANCE mm	POWER INPUT 50 Hz	UNIONS ON REQUEST		ELECTRICAL DATA						MINIMUM SUCTION PRESSURE	
			STANDARDISED	SPECIAL	SPEED	REV. 1/min	P1 MAX W	In A	CAPACITOR µF	CAPACITOR Vc	t°	90 °
VA 35/130	130	1x230 V ~	1" F	¾" F - 1¼" M	3 2 1	2465 1930 1150	56 50 35	0,25 0,22 0,16	1,7	450	m.c.a.	1,5

MODEL	L	L1	L2	B	B1	B2	H	H1	H2	F	PACKING DIMENSIONS			VOLUME m³	WEIGHT kg
											L	B	H		
VA 35/130	130	93	59	102,5	76,5	26	125,5	75	50,5	48	135	135	150	0,0027	2,5

VA 35/130 - 1/2" - HEATING AND AIR CONDITIONING SYSTEMS

Pumped liquid temperature range: from -10 °C to +110 °C - Maximum operating pressure: 10 bar (1000 kPa)





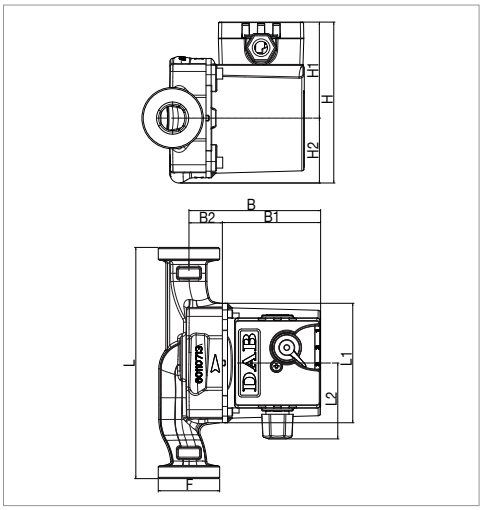
The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

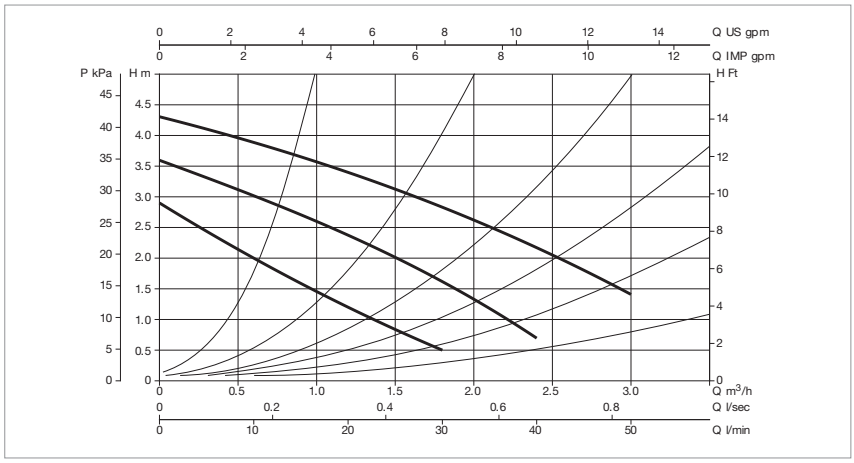
MODEL	CENTRE DISTANCE mm	POWER INPUT 50 Hz	UNIONS ON REQUEST		ELECTRICAL DATA						MINIMUM SUCTION PRESSURE	
			STANDARDISED	SPECIAL	SPEED	REV. 1/min	P1 MAX W	In A	CAPACITOR µF	CAPACITOR Vc	t°	90 °
VA 35/130 - 1/2"	130	1x230 V ~	–	–	3 2 1	2465 1930 1150	56 50 35	0,25 0,22 0,16	1,7	450	m.c.a.	1,5

MODEL	L	L1	L2	B	B1	B2	H	H1	H2	F	PACKING DIMENSIONS L	PACKING DIMENSIONS B	PACKING DIMENSIONS H	VOLUME m³	WEIGHT kg
VA 35/130 - 1/2"	180	93	59	102,5	76,5	26	125,5	75	50,5	48	135	135	150	0,0027	2,5

VA 35/180 - HEATING AND AIR CONDITIONING SYSTEMS

Pumped liquid temperature range: from -10 °C to +110 °C - Maximum operating pressure: 10 bar (1000 kPa)





The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

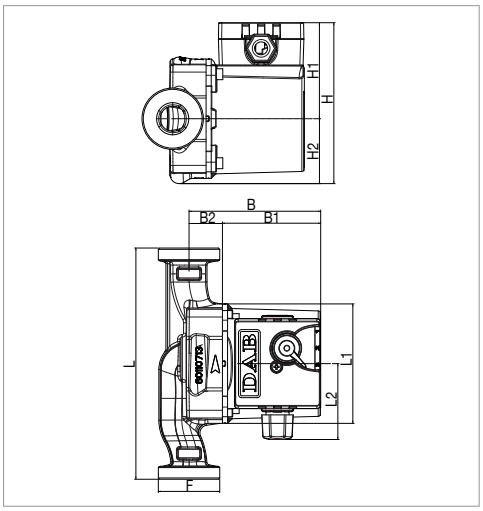
MODEL	CENTRE DISTANCE mm	POWER INPUT 50 Hz	UNIONS ON REQUEST		ELECTRICAL DATA						MINIMUM SUCTION PRESSURE	
			STANDARDISED	SPECIAL	SPEED	REV. 1/min	P1 MAX W	In A	CAPACITOR µF	CAPACITOR Vc	t°	90 °
VA 35/180	180	1x230 V ~	1" F	¾" F - 1¼" M	3 2 1	2465 1930 1150	56 50 35	0,25 0,22 0,16	1,7	450	m.c.a.	1,5

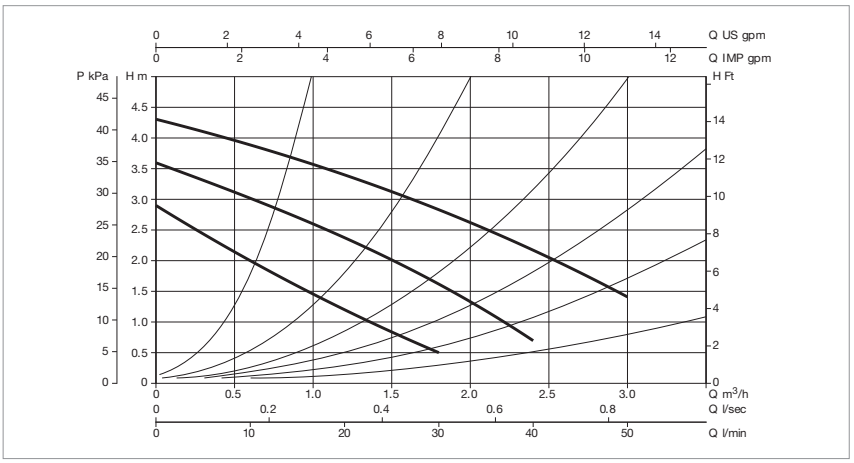
MODEL	L	L1	L2	B	B1	B2	H	H1	H2	F	PACKING DIMENSIONS L	PACKING DIMENSIONS B	PACKING DIMENSIONS H	VOLUME m³	WEIGHT kg
VA 35/180	180	93	59	102,5	76,5	26	125,5	75	50,5	48	130	190	150	0,0037	2,6

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VA 35/180X - HEATING AND AIR CONDITIONING SYSTEMS

Pumped liquid temperature range: from -10 °C to +110 °C - **Maximum operating pressure:** 10 bar (1000 kPa)





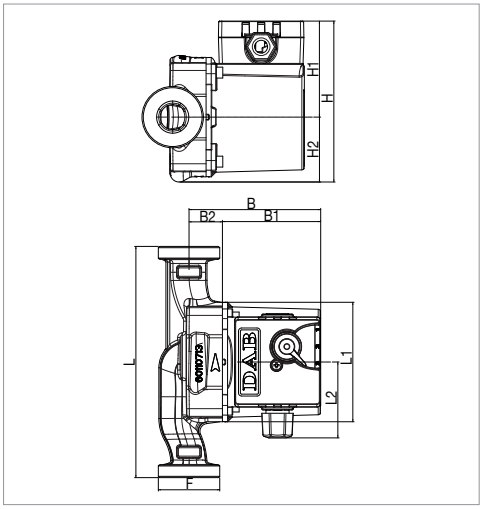
The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

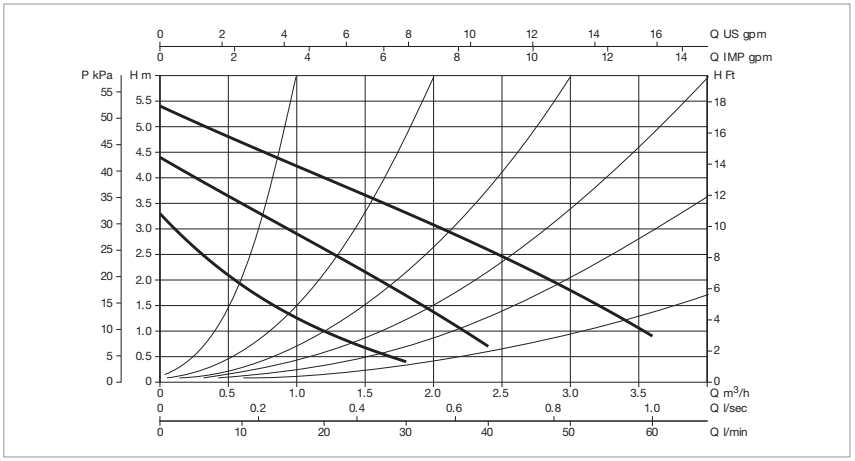
MODEL	CENTRE DISTANCE mm	POWER INPUT 50 Hz	UNIONS ON REQUEST		ELECTRICAL DATA						MINIMUM SUCTION PRESSURE	
			STANDARDISED	SPECIAL	SPEED	REV. 1/min	P1 MAX W	In A	CAPACITOR µF	CAPACITOR Vc	t°	90 °
VA 35/180X	180	1x230 V ~	–	–	3 2 1	2465 1930 1150	56 50 35	0,25 0,22 0,16	1,7	450	m.c.a.	1,5

MODEL	L	L1	L2	B	B1	B2	H	H1	H2	F	PACKING DIMENSIONS L	PACKING DIMENSIONS B	PACKING DIMENSIONS H	VOLUME m³	WEIGHT kg
VA 35/180X	180	93	59	102,5	76,5	26	125,5	75	50,5	48	130	190	150	0,0037	2,6

VA 55/130 - HEATING AND AIR CONDITIONING SYSTEMS

Pumped liquid temperature range: from -10 °C to +110 °C - **Maximum operating pressure:** 10 bar (1000 kPa)





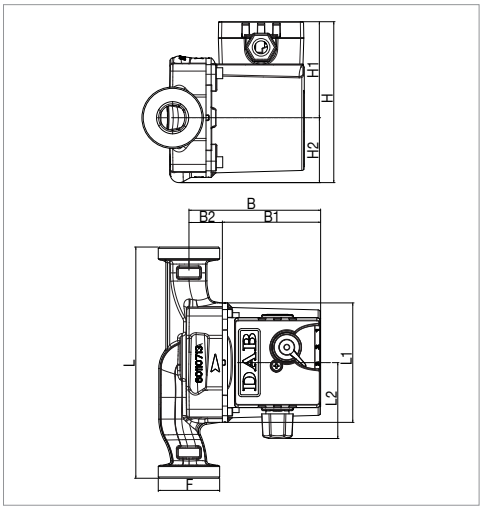
The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

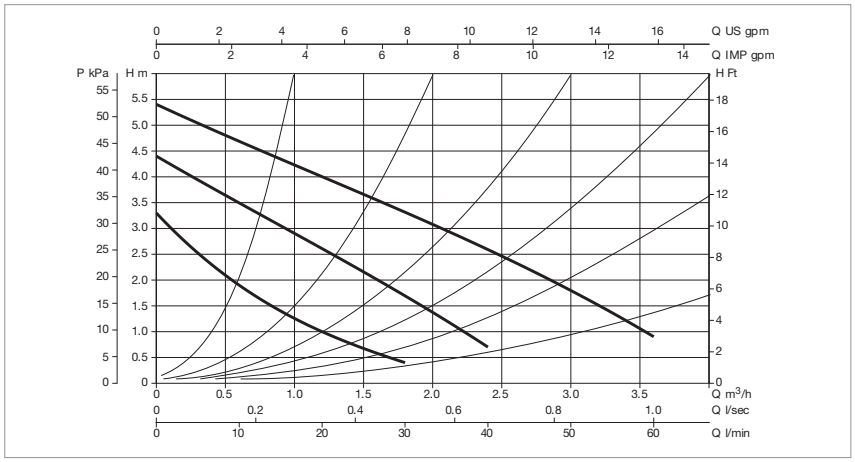
MODEL	CENTRE DISTANCE mm	POWER INPUT 50 Hz	UNIONS ON REQUEST		ELECTRICAL DATA						MINIMUM SUCTION PRESSURE	
			STANDARDISED	SPECIAL	SPEED	REV. 1/min	P1 MAX W	In A	CAPACITOR µF	CAPACITOR Vc	t°	90 °
VA 55/130	130	1x230 V ~	1" F	¾" F - 1¼" M	3 2 1	2400 1600 930	70 58 36	0,3 0,26 0,17	1,7	450	m.c.a.	1,5

MODEL	L	L1	L2	B	B1	B2	H	H1	H2	F	PACKING DIMENSIONS L	PACKING DIMENSIONS B	PACKING DIMENSIONS H	VOLUME m³	WEIGHT kg
VA 55/130	130	93	59	102,5	76,5	26	125,5	75	50,5	48	135	135	150	0,0027	2,5

VA 55/130 - 1/2" - HEATING AND AIR CONDITIONING SYSTEMS

Pumped liquid temperature range: from -10 °C to +110 °C - Maximum operating pressure: 10 bar (1000 kPa)





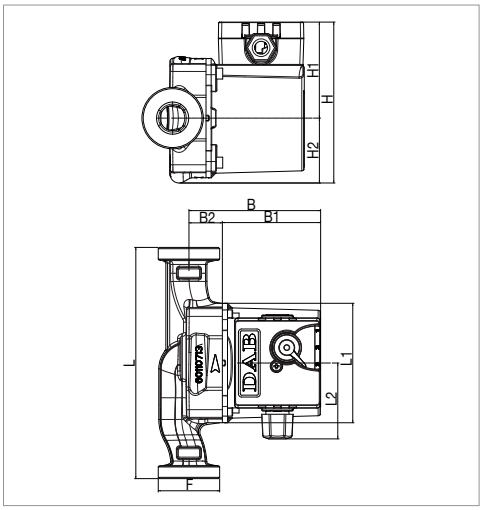
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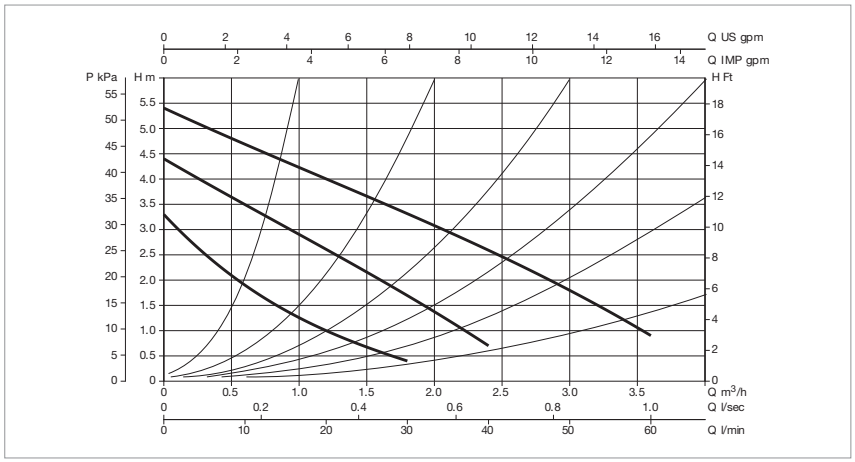
MODEL	CENTRE DISTANCE mm	POWER INPUT 50 Hz	UNIONS ON REQUEST		ELECTRICAL DATA						MINIMUM SUCTION PRESSURE	
			STANDARDISED	SPECIAL	SPEED	REV. 1/min	P1 MAX W	In A	CAPACITOR µF	CAPACITOR Vc	t°	90 °
VA 55/130 - 1/2"	130	1x230 V ~	–	–	3 2 1	2400 1600 930	70 58 36	0,3 0,26 0,17	1,7	450	m.c.a.	1,5

MODEL	L	L1	L2	B	B1	B2	H	H1	H2	F	PACKING DIMENSIONS L	PACKING DIMENSIONS B	PACKING DIMENSIONS H	VOLUME m³	WEIGHT kg
VA 55/130 - 1/2"	130	93	59	102,5	76,5	26	125,5	75	50,5	48	135	135	150	0,0027	2,5

VA 55/180 - HEATING AND AIR CONDITIONING SYSTEMS

Pumped liquid temperature range: from -10 °C to +110 °C - Maximum operating pressure: 10 bar (1000 kPa)





The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

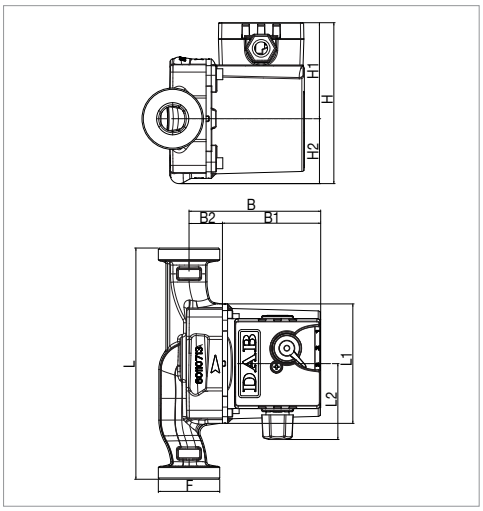
MODEL	CENTRE DISTANCE mm	POWER INPUT 50 Hz	UNIONS ON REQUEST		ELECTRICAL DATA						MINIMUM SUCTION PRESSURE	
			STANDARDISED	SPECIAL	SPEED	REV. 1/min	P1 MAX W	In A	CAPACITOR µF	CAPACITOR Vc	t°	90 °
VA 55/180	180	1x230 V ~	1" F	¾" F - 1¼" M	3 2 1	2400 1600 930	70 58 36	0,3 0,26 0,17	1,7	450	m.c.a.	1,5

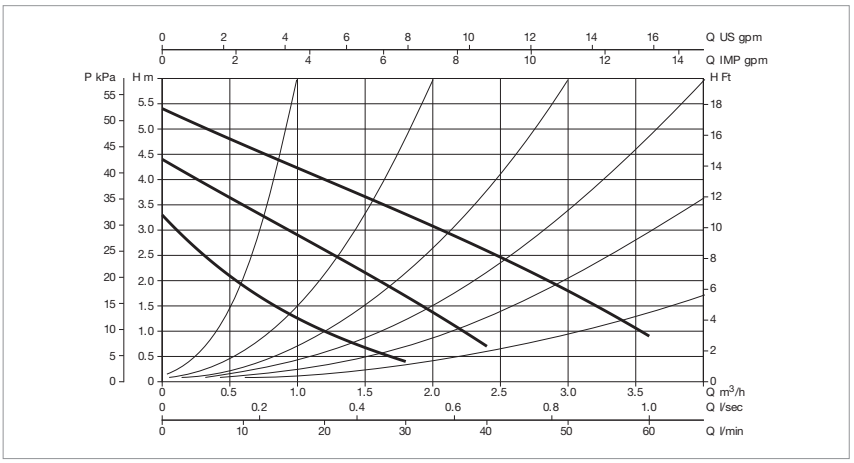
MODEL	L	L1	L2	B	B1	B2	H	H1	H2	F	PACKING DIMENSIONS L	PACKING DIMENSIONS B	PACKING DIMENSIONS H	VOLUME m³	WEIGHT kg
VA 55/180	180	93	59	102,5	76,5	26	125,5	75	50,5	48	130	190	150	0,0037	2,6

DAB PUMPS reserves the right to make modifications without notice.

VA 55/180X - HEATING AND AIR CONDITIONING SYSTEMS

Pumped liquid temperature range: from -10 °C to +110 °C - **Maximum operating pressure:** 10 bar (1000 kPa)





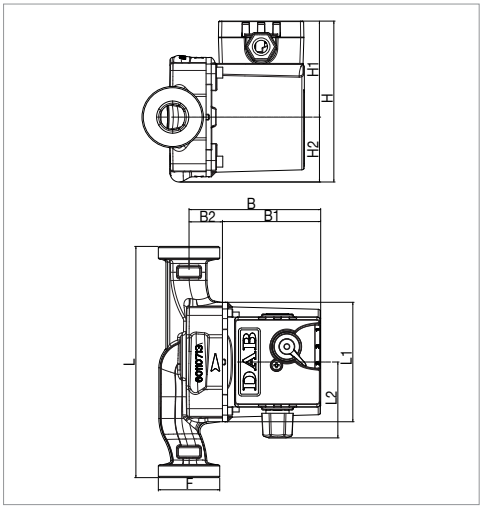
The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

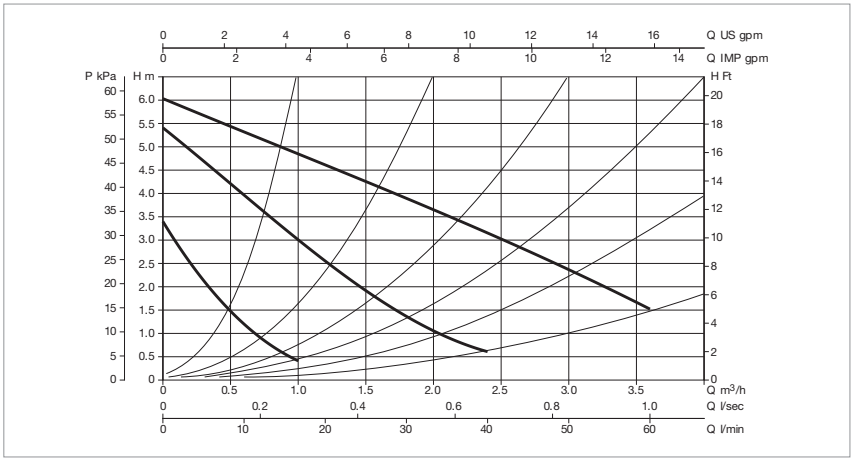
MODEL	CENTRE DISTANCE mm	POWER INPUT 50 Hz	UNIONS ON REQUEST	ELECTRICAL DATA						MINIMUM SUCTION PRESSURE	
			STANDARDISED	SPEED	REV. 1/min	P1 MAX W	In A	CAPACITOR µF	CAPACITOR Vc	t°	90 °
VA 55/180X	180	1x230 V ~	1" ¼" F	3 2 1	2400 1600 930	70 58 36	0,3 0,26 0,17	1,7	450	m.c.a.	1,5

MODEL	L	L1	L2	B	B1	B2	H	H1	H2	F	PACKING DIMENSIONS			VOLUME m³	WEIGHT kg
											L	B	H		
VA 55/180X	180	93	59	102,5	76,5	26	125,5	75	50,5	48	130	190	150	0,0037	2,6

VA 65/130 - HEATING AND AIR CONDITIONING SYSTEMS

Pumped liquid temperature range: from -10 °C to +110 °C - **Maximum operating pressure:** 10 bar (1000 kPa)





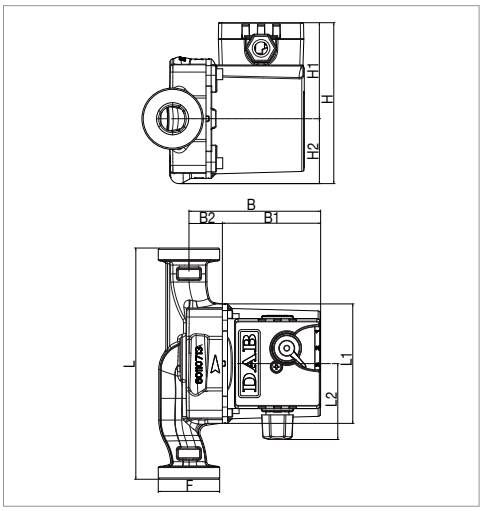
The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

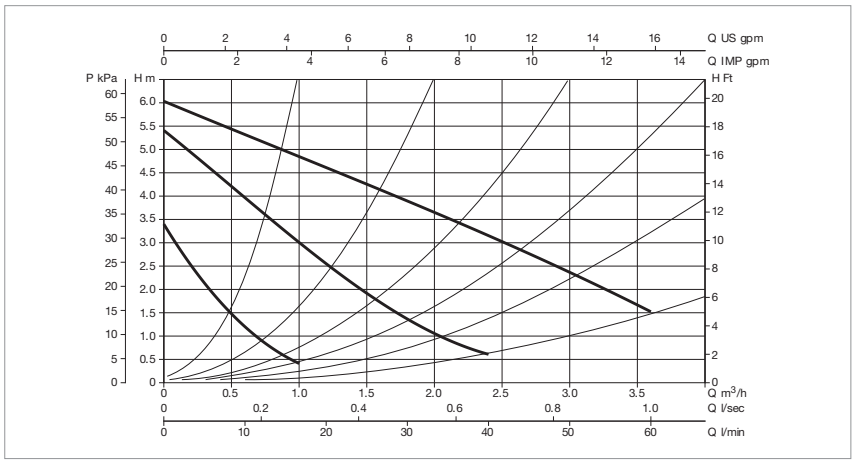
MODEL	CENTRE DISTANCE mm	POWER INPUT 50 Hz	UNIONS ON REQUEST		ELECTRICAL DATA						MINIMUM SUCTION PRESSURE	
			STANDARDISED	SPECIAL	SPEED	REV. 1/min	P1 MAX W	In A	CAPACITOR µF	CAPACITOR Vc	t°	90 °
VA 65/130	130	1x230 V ~	1" F	¾" F - 1¼" M	3 2 1	2310 1532 880	78 59 37	0,34 0,26 0,17	2	450	m.c.a.	2,5

MODEL	L	L1	L2	B	B1	B2	H	H1	H2	F	PACKING DIMENSIONS			VOLUME m³	WEIGHT kg
											L	B	H		
VA 65/130	130	93	59	102,5	76,5	26	125,5	75	50,5	48	135	135	150	0,0027	2,5

VA 65/130 - 1/2" - HEATING AND AIR CONDITIONING SYSTEMS

Pumped liquid temperature range: from -10 °C to +110 °C - Maximum operating pressure: 10 bar (1000 kPa)





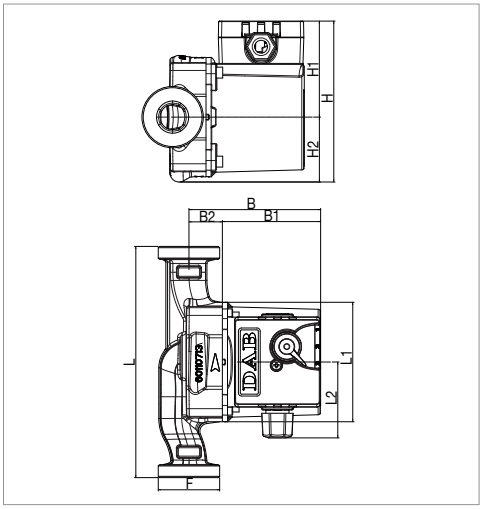
The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

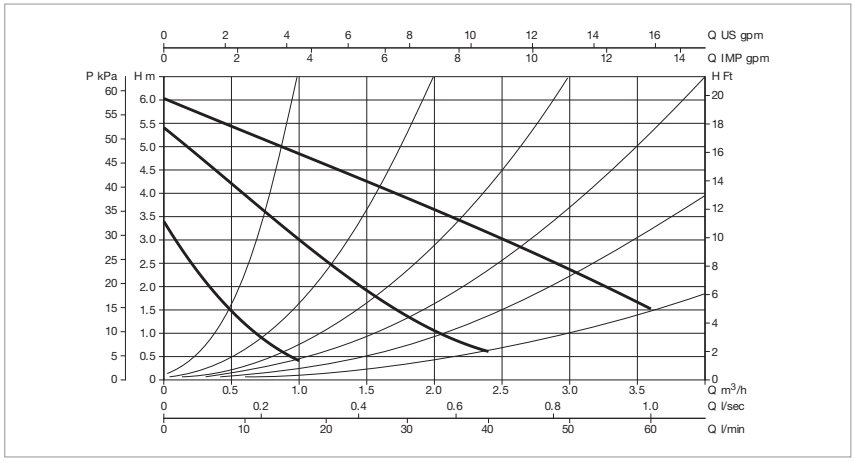
MODEL	CENTRE DISTANCE mm	POWER INPUT 50 Hz	UNIONS ON REQUEST		ELECTRICAL DATA						MINIMUM SUCTION PRESSURE	
			STANDARDISED	SPECIAL	SPEED	REV. 1/min	P1 MAX W	In A	CAPACITOR µF	CAPACITOR Vc	t°	90 °
VA 65/130 - 1/2"	130	1x230 V ~	–	–	3 2 1	2310 1532 880	78 59 37	0,34 0,26 0,17	2	450	m.c.a.	2,5

MODEL	L	L1	L2	B	B1	B2	H	H1	H2	F	PACKING DIMENSIONS L	PACKING DIMENSIONS B	PACKING DIMENSIONS H	VOLUME m³	WEIGHT kg
VA 65/130 - 1/2"	130	93	59	102,5	76,5	26	125,5	75	50,5	48	135	135	150	0,0027	2,5

VA 65/180 - HEATING AND AIR CONDITIONING SYSTEMS

Pumped liquid temperature range: from -10 °C to +110 °C - Maximum operating pressure: 10 bar (1000 kPa)





The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

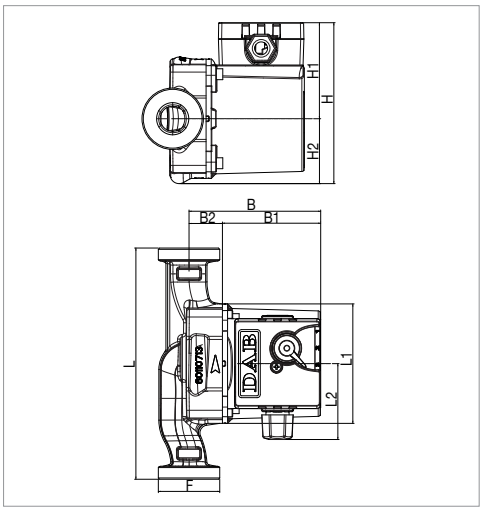
MODEL	CENTRE DISTANCE mm	POWER INPUT 50 Hz	UNIONS ON REQUEST		ELECTRICAL DATA						MINIMUM SUCTION PRESSURE	
			STANDARDISED	SPECIAL	SPEED	REV. 1/min	P1 MAX W	In A	CAPACITOR µF	CAPACITOR Vc	t°	90 °
VA 65/180	180	1x230 V ~	1" F	¾" F - 1¼" M	3 2 1	2310 1532 880	78 59 37	0,34 0,26 0,17	2	450	m.c.a.	2,5

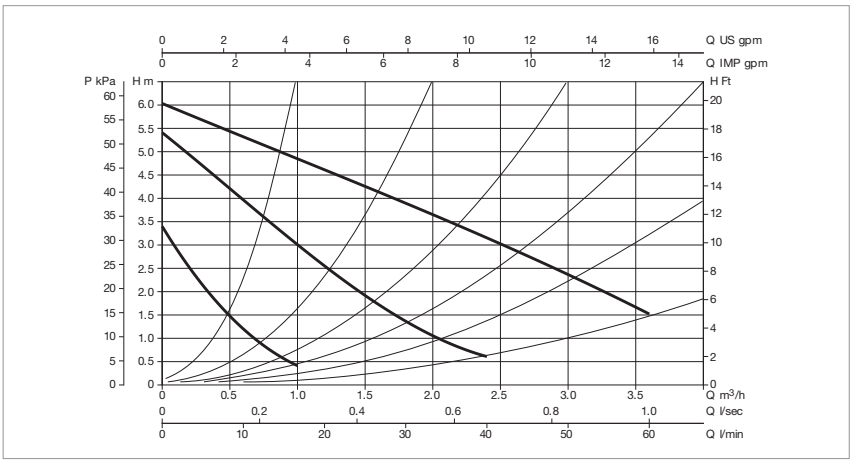
MODEL	L	L1	L2	B	B1	B2	H	H1	H2	F	PACKING DIMENSIONS L	PACKING DIMENSIONS B	PACKING DIMENSIONS H	VOLUME m³	WEIGHT kg
VA 65/180	180	93	59	102,5	76,5	26	125,5	75	50,5	48	130	190	150	0,0037	2,6

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VA 65/180X - HEATING AND AIR CONDITIONING SYSTEMS

Pumped liquid temperature range: from -10 °C to +110 °C - **Maximum operating pressure:** 10 bar (1000 kPa)





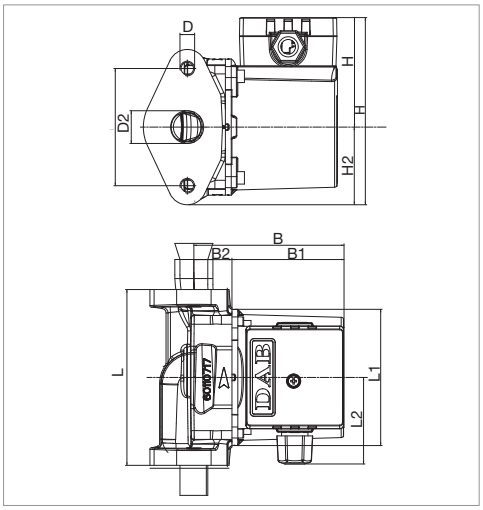
The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

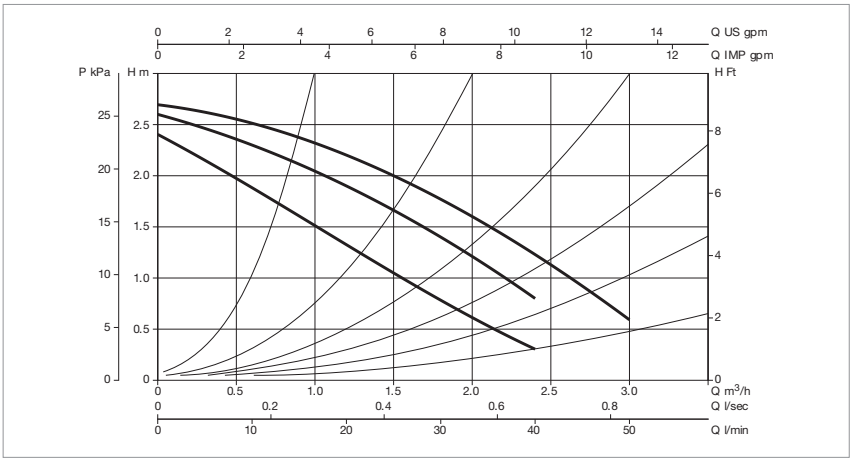
MODEL	CENTRE DISTANCE mm	POWER INPUT 50 Hz	UNIONS ON REQUEST	ELECTRICAL DATA						MINIMUM SUCTION PRESSURE	
			STANDARDISED	SPEED	REV. 1/min	P1 MAX W	In A	CAPACITOR µF	CAPACITOR Vc	t°	90 °
VA 65/180X	180	1x230 V ~	1" ¼" F	3 2 1	2310 1532 880	78 59 37	0,34 0,26 0,17	2	450	m.c.a.	2,5

MODEL	L	L1	L2	B	B1	B2	H	H1	H2	F	PACKING DIMENSIONS			VOLUME m³	WEIGHT kg
											L	B	H		
VA 65/180X	130	93	59	102,5	76,5	26	125,5	75	50,5	48	130	190	150	0,0037	2,6

VB 35/120 - HEATING AND AIR CONDITIONING SYSTEMS

Pumped liquid temperature range: from -10 °C to +110 °C - **Maximum operating pressure:** 10 bar (1000 kPa)





The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

MODEL	CENTRE DISTANCE mm	POWER INPUT 50 Hz	UNIONS ON REQUEST		ELECTRICAL DATA						MINIMUM SUCTION PRESSURE	
			STANDARDISED	SPECIAL	SPEED	REV. 1/min	P1 MAX W	In A	CAPACITOR µF	CAPACITOR Vc	t°	90 °
VB 35/120	120	1x230 V ~	DN 25	DN 20 DN 32	3 2 1	2465 1930 1150	56 50 35	0,25 0,22 0,16	1,7	450	m.c.a.	1,5

MODEL	L	L1	L2	B	B1	B2	H	H1	H2	D2	D1	I	PACKING DIMENSIONS			VOLUME m³	WEIGHT kg
													L	B	H		
VB 35/120	120	98	60	104	78	26	124	75	49	25	M10	78	135	135	150	0,0027	2,7