

VX Series

Vortex Submersible Pumps

 **SolidsPro**





Vortex Submersible Pump

VX50M1.520

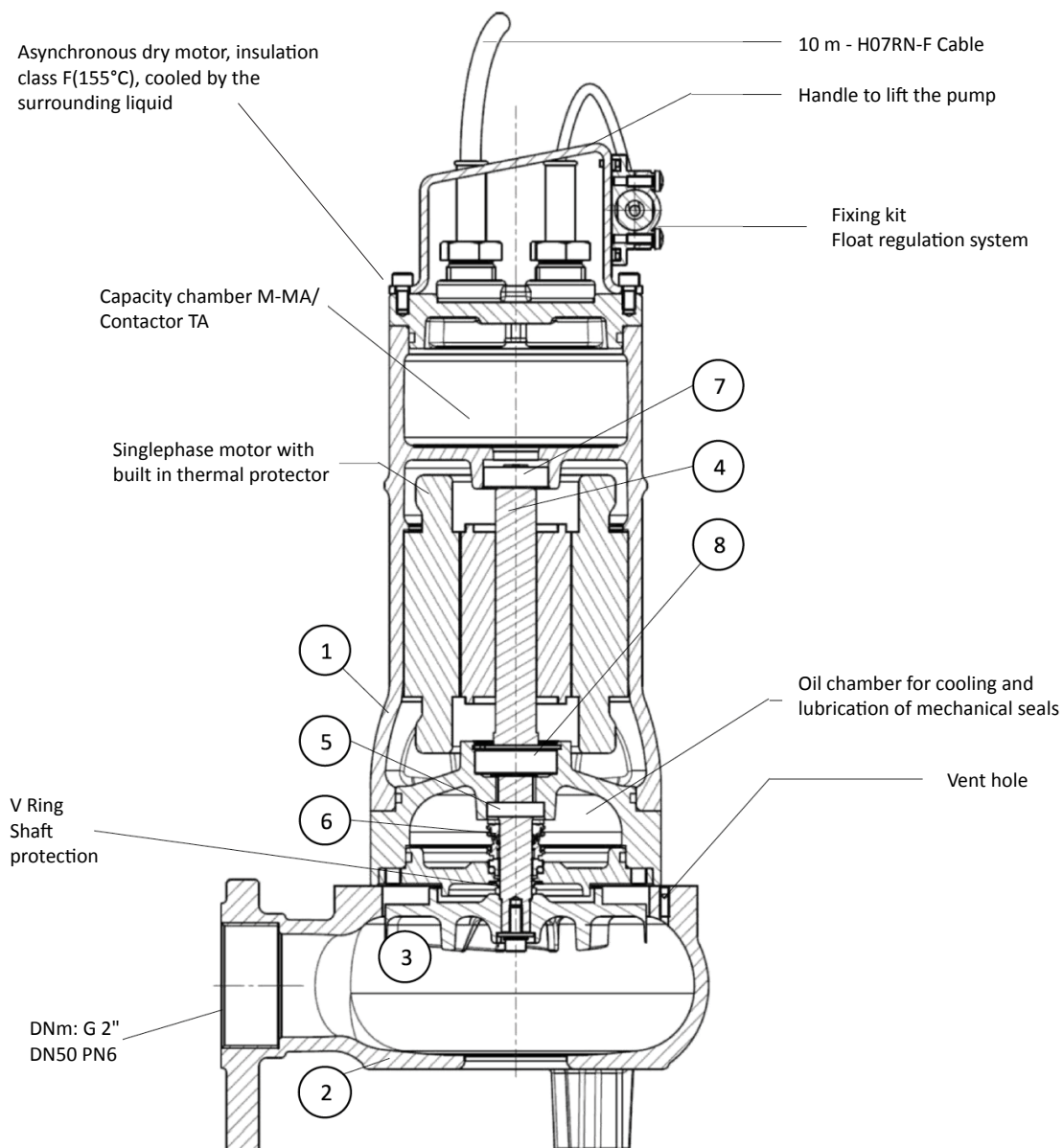


Vortex Submersible Pump

VX50M1.520



Construction features



No.	Description	Material
1	Motor	Cast iron
2	Cover	Cast iron
3	Impeller	Cast iron
4	Shaft	Steel AISI 420B

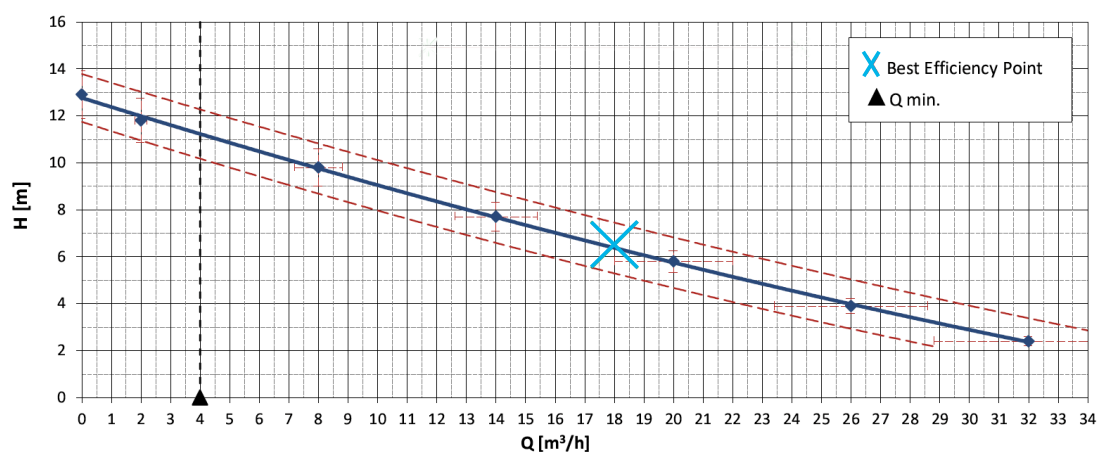
No.	Description	Material
5	Upper seal	NBR Lip Seal
6	Lower mech. seal	SiC/SiC/NBR
7	Top bearing	6201-2RS
8	Lower bearing	6203-2RS

Vortex Submersible Pump

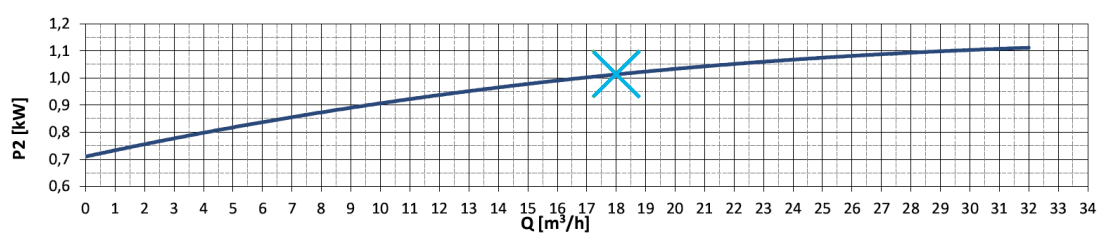
VX50M1.520



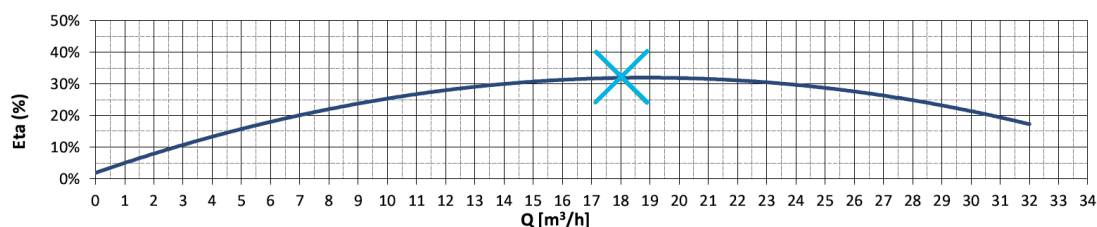
PERFORMANCE CURVE



SHAFT POWER



HYDRAULIC EFFICIENCY



FLOW (Q)	l/min	0,0	33,3	133,3	233,3	333,3	433,3	533,3					
	l/s	0,0	0,6	2,2	3,9	5,6	7,2	8,9					
	m³/h	0,0	2,0	8,0	14,0	20,0	26,0	32,0					
HEAD (H)	m	12,9	11,8	9,8	7,7	5,8	3,9	2,4					

Specifications

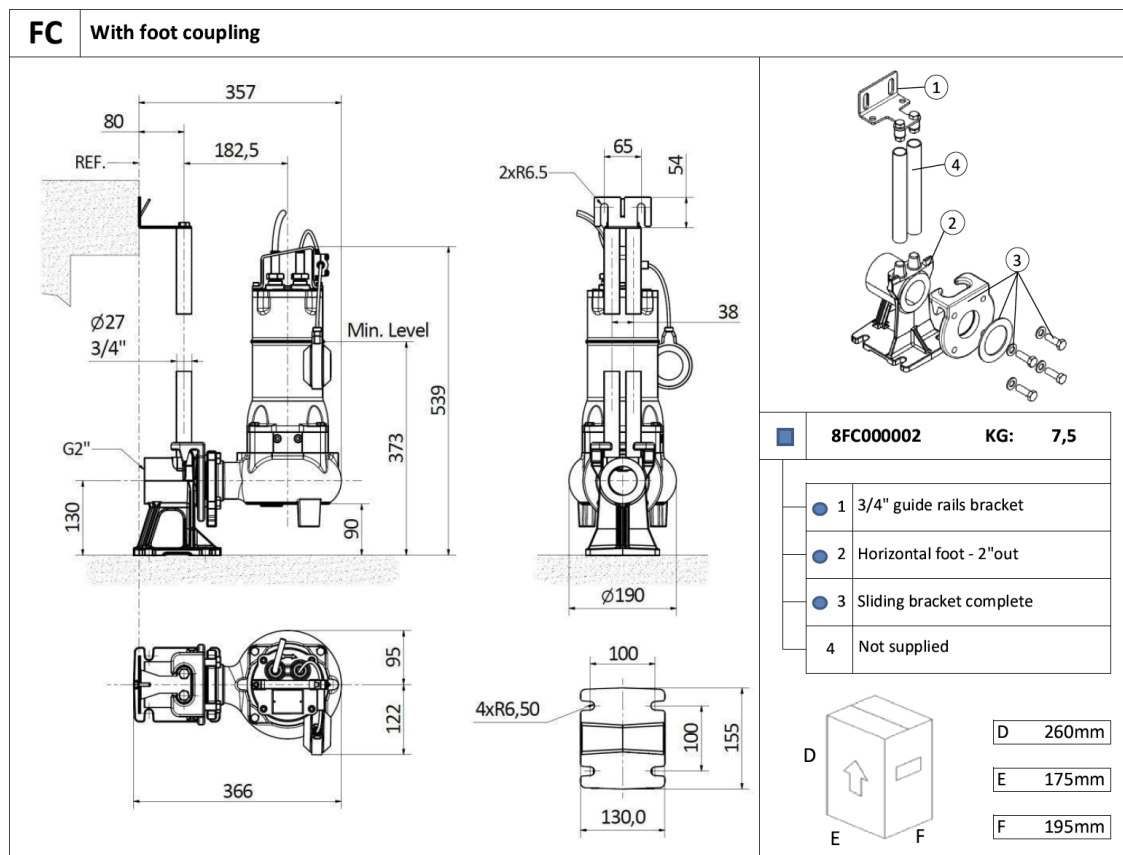
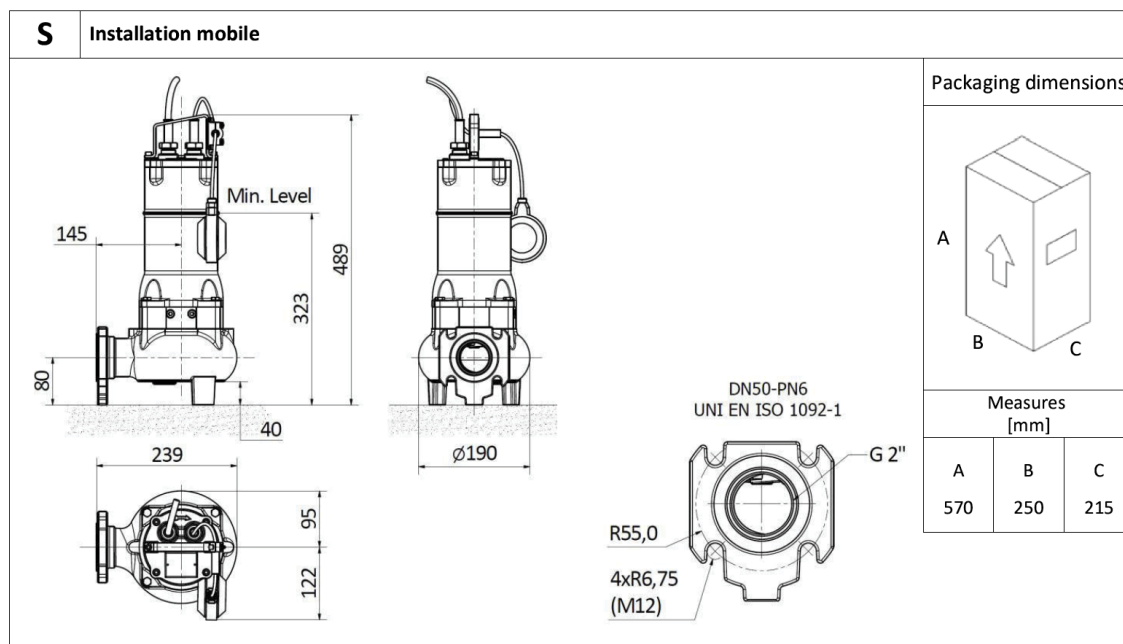
Pump Type	VX50M	Discharge	50mm BSP	Float	Yes
Code	VX50M1.521	Power Supply	1ph 230V - 50Hz	Thermal Protection	Yes
Construction	Cast Iron	Nominal Speed	2900rpm	Humidity Probe	No
Impeller Type	Vortex	Rated Motor Power	1.5kW	Cable Length	10m
Weight	25kg	Starting Current	21.6A	Max Flow	32m³/hr
Impeller diameter	127mm	Rated Current	7.7A	Max Head	13m
Solids Passage	50	Capacitor	25µF	Ingress Rating	IP68

Vortex Submersible Pump

VX50M1.520



Dimensions and installation





Vortex Submersible Pump

VX50T322

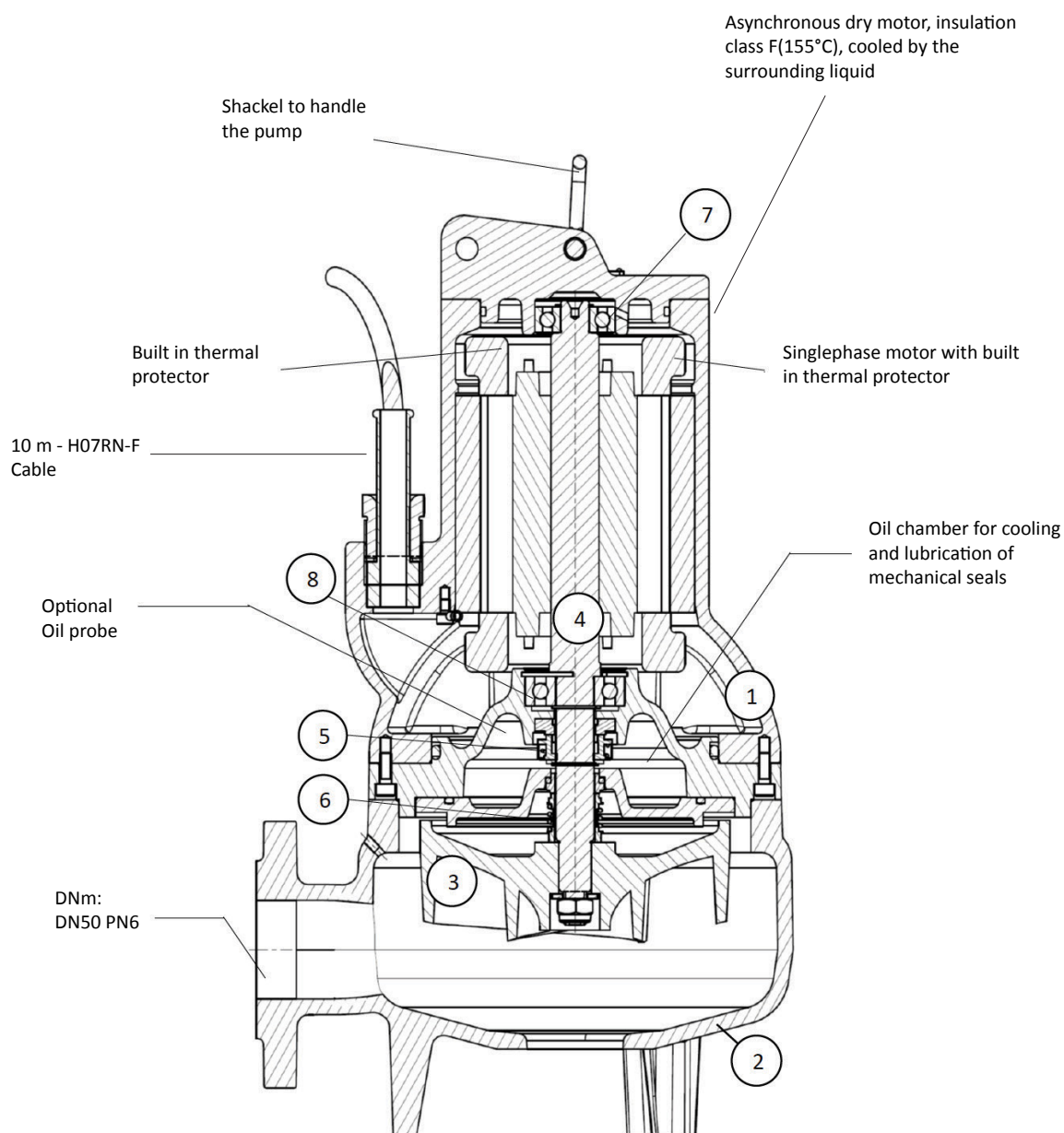


Vortex Submersible Pump

VX50T322



Construction features



No.	Description	Material
1	Motor group	Cast iron
2	Cover	Cast iron
3	Impeller	Cast iron
4	Shaft	AISI 420B

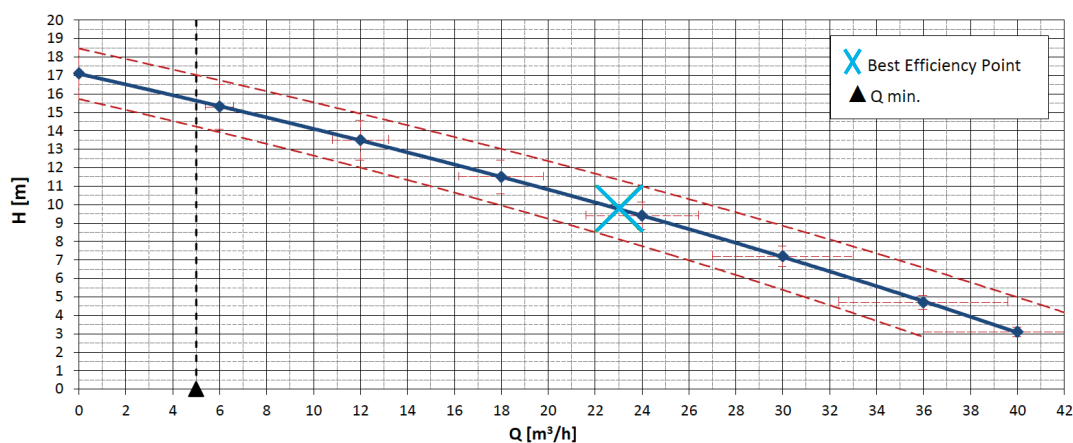
No.	Description	Material
5	Upper mech. seal	Carbon/Graphite/NBR
6	Lower mech. seal	SiC/SiC/NBR
7	Top bearing	6302-2RS
8	Lower bearing	6304-2RS

Vortex Submersible Pump

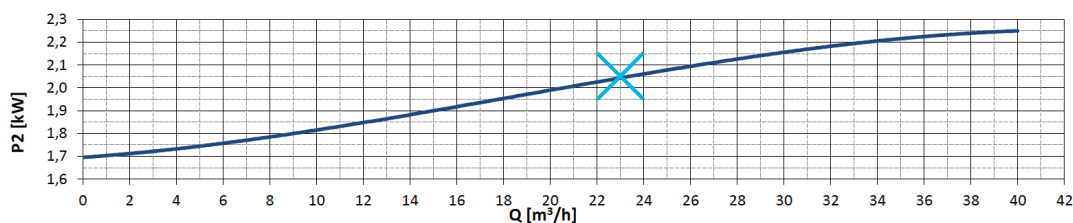
VX50T322



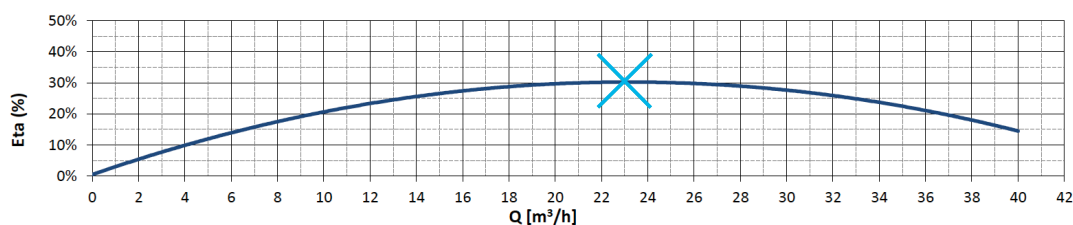
PERFORMANCE CURVE



SHAFT POWER



HYDRAULIC EFFICIENCY



FLOW (Q)	l/min	0,0	100,0	200,0	300,0	400,0	500,0	600,0	666,7				
	l/s	0,0	1,7	3,3	5,0	6,7	8,3	10,0	11,1				
	m³/h	0,0	6,0	12,0	18,0	24,0	30,0	36,0	40,0				
HEAD (H)	m	17,1	15,3	13,5	11,5	9,4	7,2	4,7	3,1				

Specifications

Pump Type	VX50T	Discharge	50mm BSP	Humidity Probe	Yes
Code	VX50T322	Power Supply	3ph 400V - 50Hz	Cable Length	10m
Construction	Cast Iron	Nominal Speed	2900rpm	Max Flow	40m³/hr
Impeller Type	Vortex	Rated Motor Power	3kW	Max Head	17.1m
Weight	36kg	Starting Current	24.2A	Ingress Rating	IP68
Impeller diameter	162mm	Rated Current	5.5A		
Solids Passage	48mm	Thermal Protection	Yes		

FC

With foot coupling

Technical drawing of the FC foot coupling assembly, showing side, front, and top views with dimensions.

Side View Dimensions:

- Ref. (Reference level)
- 80 (Height from Ref. to top of vertical pipe)
- 399,5 (Total height)
- 205,5 (Height from top of vertical pipe to top of pump housing)
- 2X $\varnothing 26,90$ (Pump housing diameter)
- 2X 3/4" (Pump housing connection size)
- G 2" (Pump housing connection size)
- 70 (Height from base to pump housing connection)
- 130 (Height from base to pump housing connection)
- 80 (Pump housing height)
- S3: 297 (Pump housing height)
- S1: 502 (Total height)

Front View Dimensions:

- 2xR6,5 (Top flange radius)
- 67 (Top flange diameter)
- 23 (Top flange thickness)
- 5,5 (Top flange offset)
- 38 (Pump housing height)
- $\varnothing 228$ (Pump housing diameter)

Top View Dimensions:

- 18 (Pump housing width)
- 114 (Pump housing height)
- 409 (Pump housing diameter)
- 4XR6,5 (Top flange radius)
- 100 (Pump housing width)
- 155 (Pump housing height)
- 100 (Pump housing width)
- 130 (Pump housing height)

Exploded view diagram of the FC foot coupling assembly, showing components 1 through 4.

- 1: 3/4" guide rails bracket
- 2: Horizontal foot - 2" out
- 3: Sliding bracket complete
- 4: Not supplied

8FC000002

- 1 3/4" guide rails bracket
- 2 Horizontal foot - 2" out
- 3 Sliding bracket complete
- 4 Not supplied

D

3D perspective view of the FC foot coupling assembly box, showing dimensions D, E, and F.

E

F

D 260mm

E 175mm

F 195mm



Vortex Submersible Pump

VX65T2.242

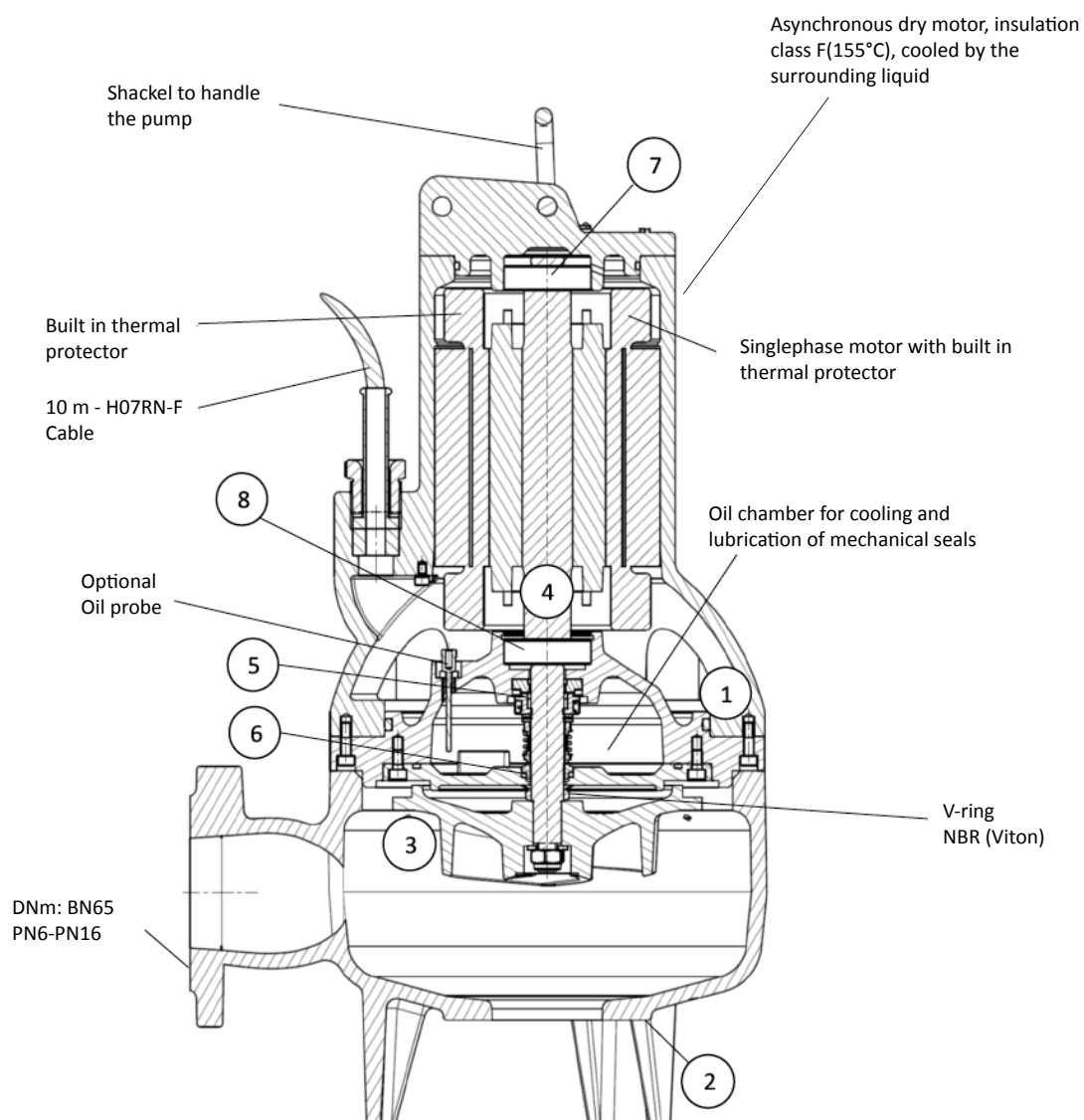


Vortex Submersible Pump

VX65T2.242



Construction features



No.	Description	Material
1	Motor group	Cast iron
2	Cover	Cast iron
3	Impeller	Cast iron
4	Shaft	AISI 420B

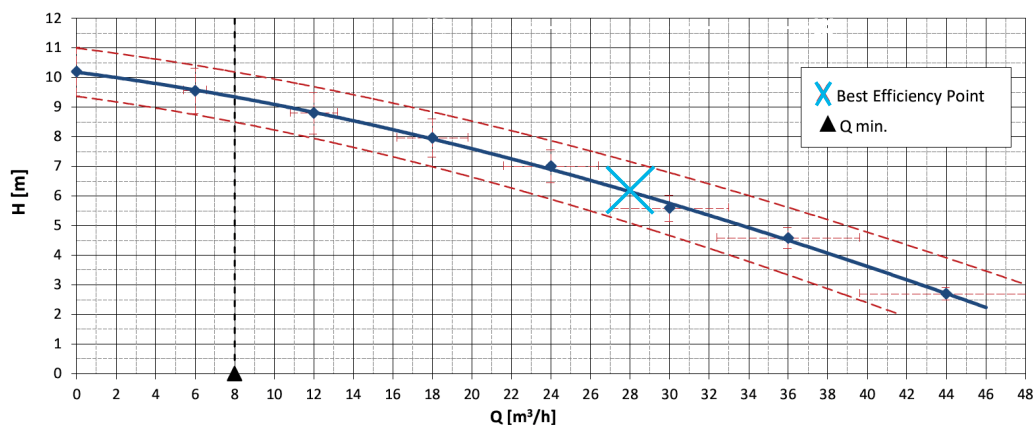
No.	Description	Material
5	Upper mech. seal	Carbon/Graphite/NBR
6	Lower mech. seal	SiC/SiC/NBR
7	Top bearing	6302-2RS
8	Lower bearing	6304-2RS

Vortex Submersible Pump

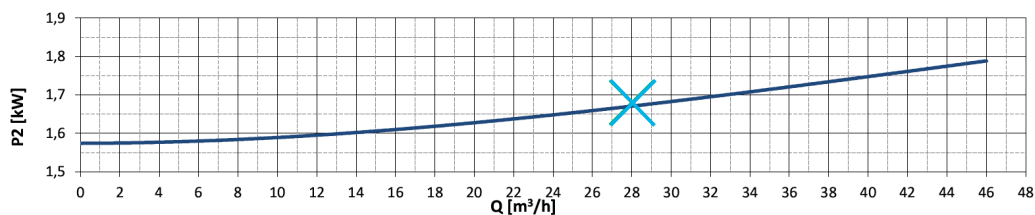
VX65T2.242



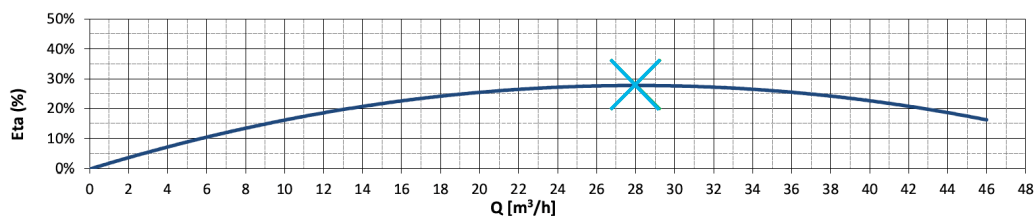
PERFORMANCE CURVE



SHAFT POWER



HYDRAULIC EFFICIENCY



FLOW (Q)	l/min	0,0	100,0	200,0	300,0	400,0	500,0	600,0	733,3				
	l/s	0,0	1,7	3,3	5,0	6,7	8,3	10,0	12,2				
	m³/h	0,0	6,0	12,0	18,0	24,0	30,0	36,0	44,0				
HEAD (H)	m	10,2	9,6	8,8	8,0	7,0	5,6	4,6	2,7				

Specifications

Pump Type	VX65T	Discharge	65mm BSP	Humidity Probe	Yes
Code	VX65T2.242	Power Supply	3ph 400V - 50Hz	Cable Length	10m
Construction	Cast Iron	Nominal Speed	1450rpm	Max Flow	44m³/hr
Impeller Type	Vortex	Rated Motor Power	2.2kW	Max Head	10.2m
Weight	62kg	Starting Current	21A	Ingress Rating	IP68
Impeller diameter	190mm	Rated Current	4.4A		
Solids Passage	65mm	Thermal Protection	Yes		

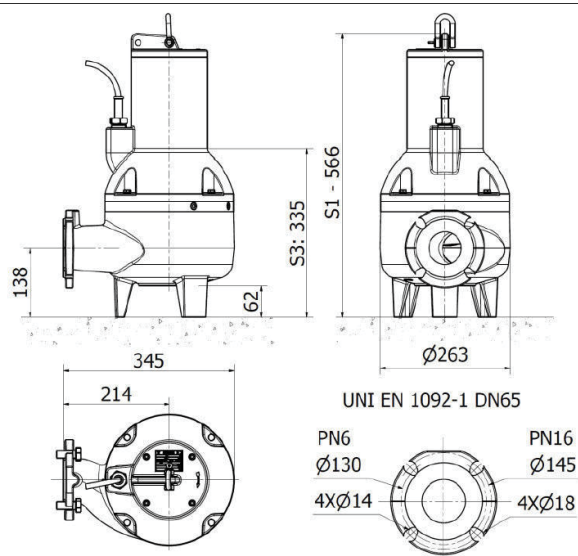
Vortex Submersible Pump

VX65T2.242

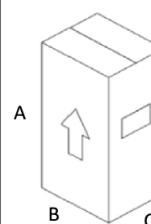


Dimensions and installation

S Installation mobile



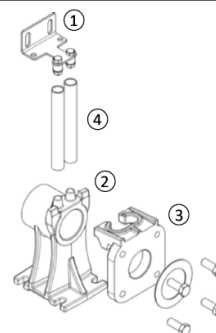
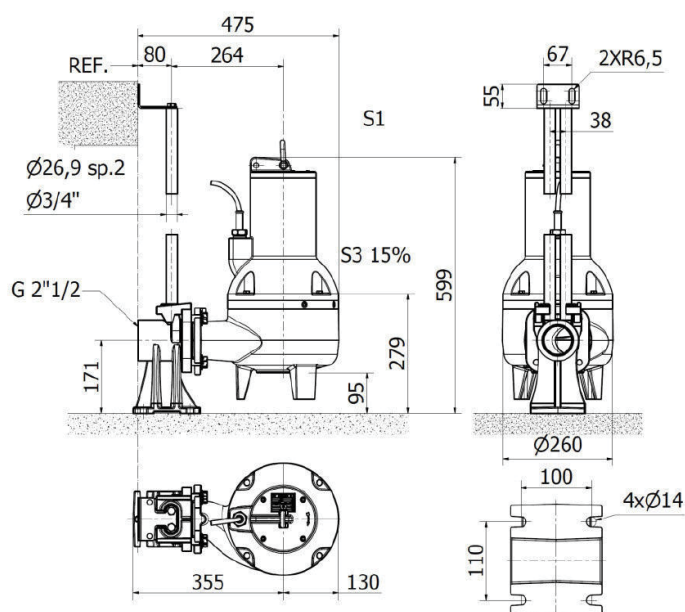
Packaging dimensions



Measures [mm]

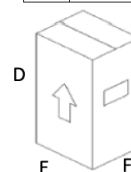
A	B	C
720	370	300

FC With foot coupling



8FC000003 KG: 10

- 1 3/4" guide rails bracket
- 2 Horizontal foot - 2"1/2 out
- 3 Sliding bracket complete
- 4 Not supplied



D	260
E	175
F	195



Vortex Submersible Pump

VX80T2.942

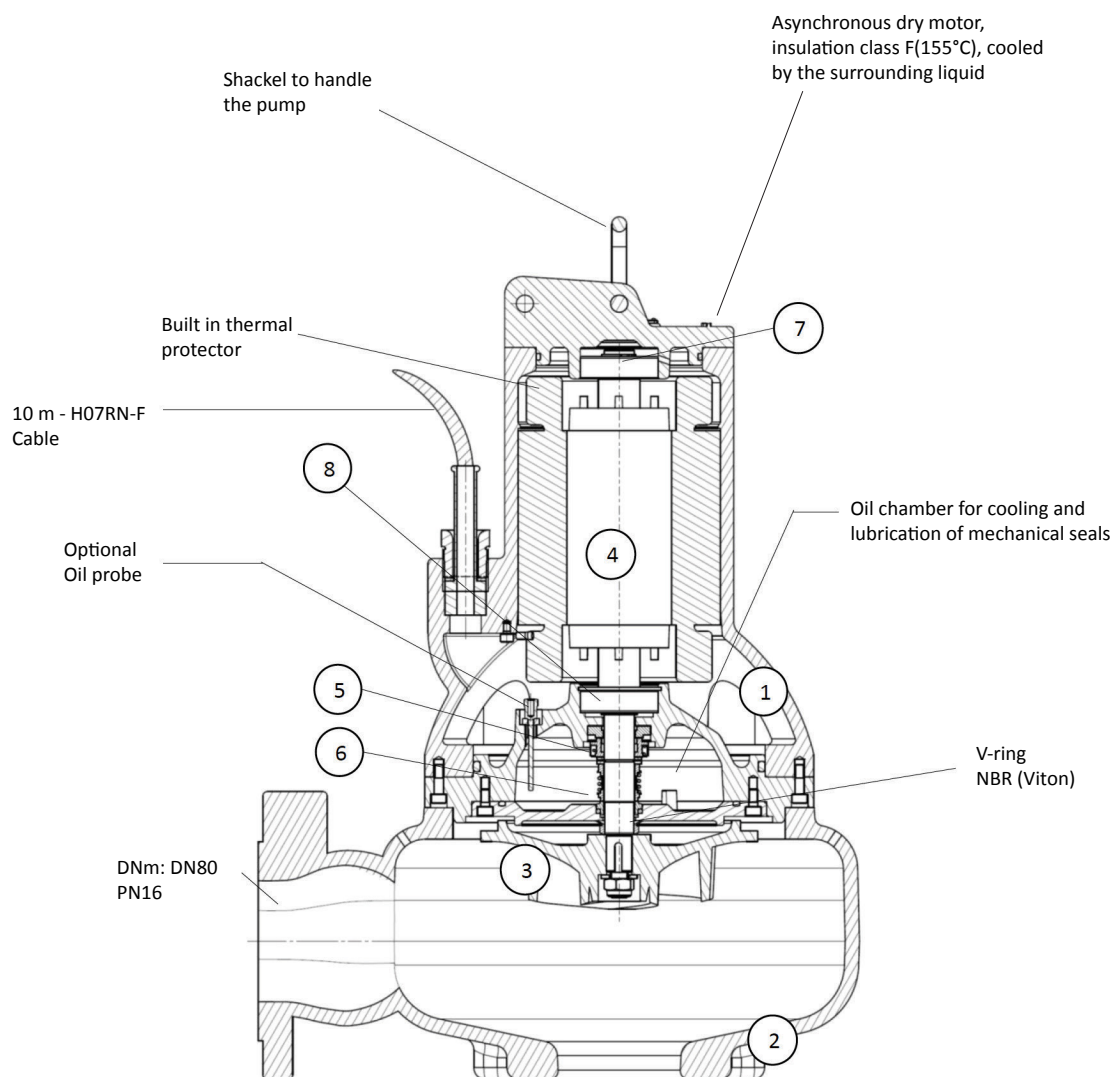


Vortex Submersible Pump

VX80T2.942



Construction features



No.	Description	Material
1	Motor group	Cast iron
2	Cover	Cast iron
3	Impeller	Cast iron
4	Shaft	AISI 420B

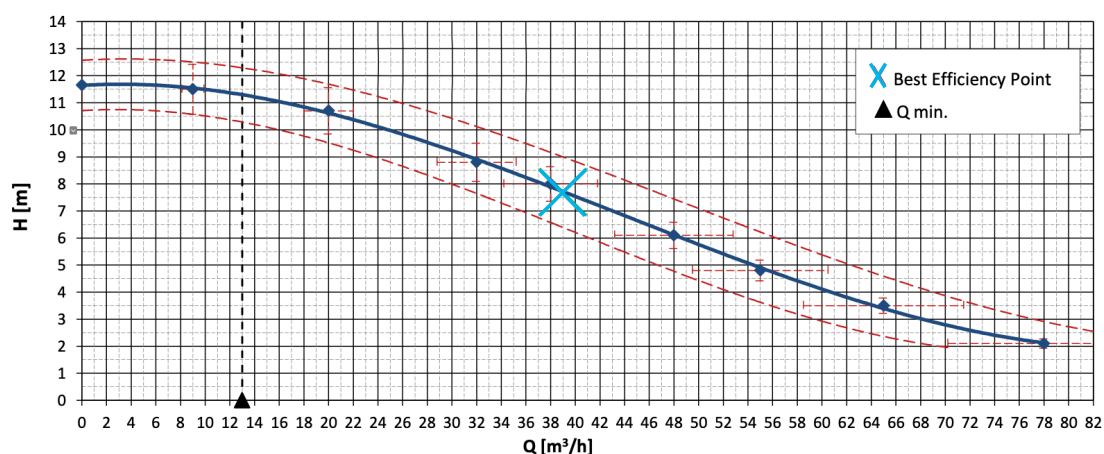
No.	Description	Material
5	Upper mech. seal	Carbon/Graphite/NBR
6	Lower mech. seal	SiC/SiC/NBR
7	Top bearing	6302-2RS
8	Lower bearing	6304-2RS

Vortex Submersible Pump

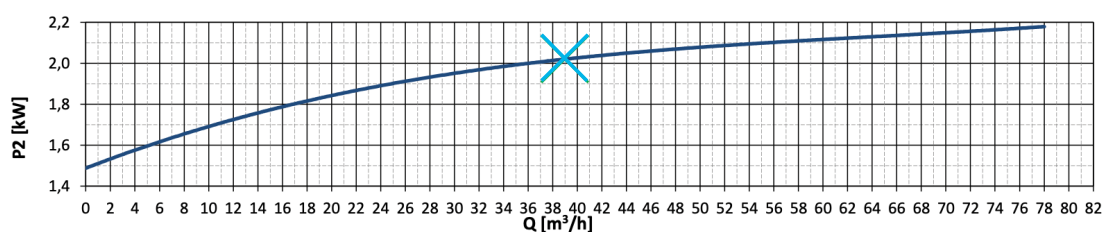
VX80T2.942



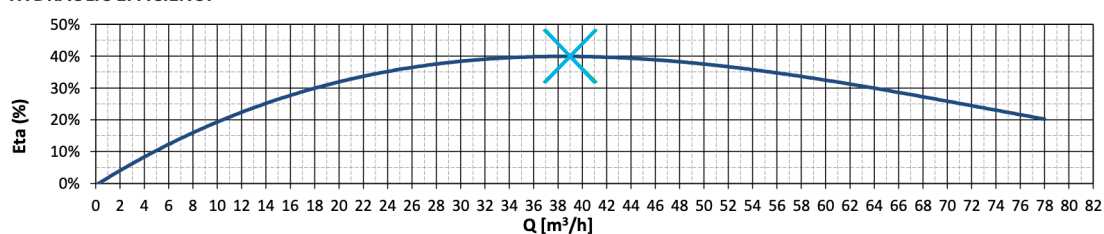
PERFORMANCE CURVE



SHAFT POWER



HYDRAULIC EFFICIENCY



FLOW (Q)	l/min	0,0	150,0	333,3	533,3	633,3	800,0	916,7	1083,3	1300,0			
	l/s	0,0	2,5	5,6	8,9	10,6	13,3	15,3	18,1	21,7			
	m³/h	0,0	9,0	20,0	32,0	38,0	48,0	55,0	65,0	78,0			
HEAD (H)	m	11,7	11,5	10,7	8,8	8,0	6,1	4,8	3,5	2,1			

Specifications

Pump Type	VX80T
Code	VX80T4.942
Construction	Cast Iron
Impeller Type	Vortex
Weight	76kg
Impeller diameter	219mm
Solids Passage	80mm

Discharge	80mm BSP
Power Supply	3ph 400V - 50Hz
Nominal Speed	1450rpm
Rated Motor Power	2.9kW
Starting Current	27A
Rated Current	5.2A
Thermal Protection	Yes

Humidity Probe	Yes
Cable Length	10m
Max Flow	78m³/hr
Max Head	11.7m
Ingress Rating	IP68

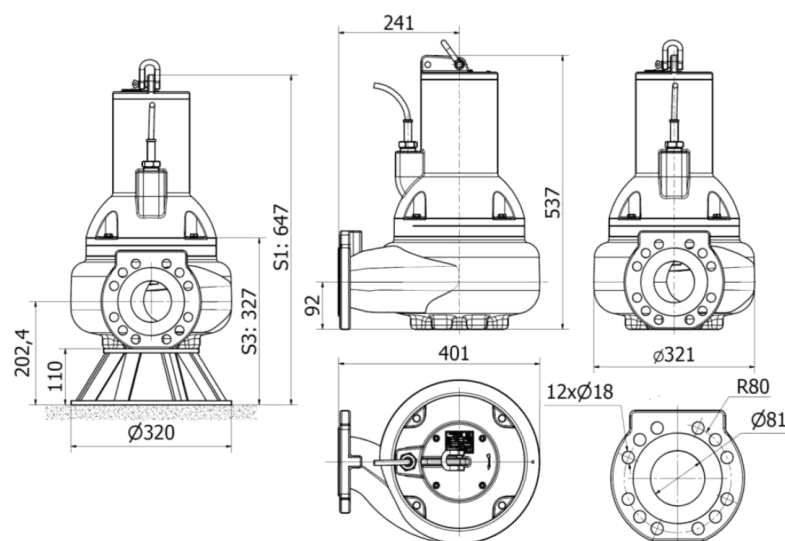
Vortex Submersible Pump

VX80T2.942

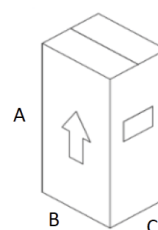


Dimensions and installation

S Installation mobile



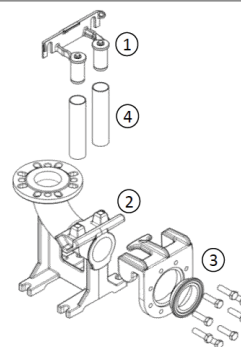
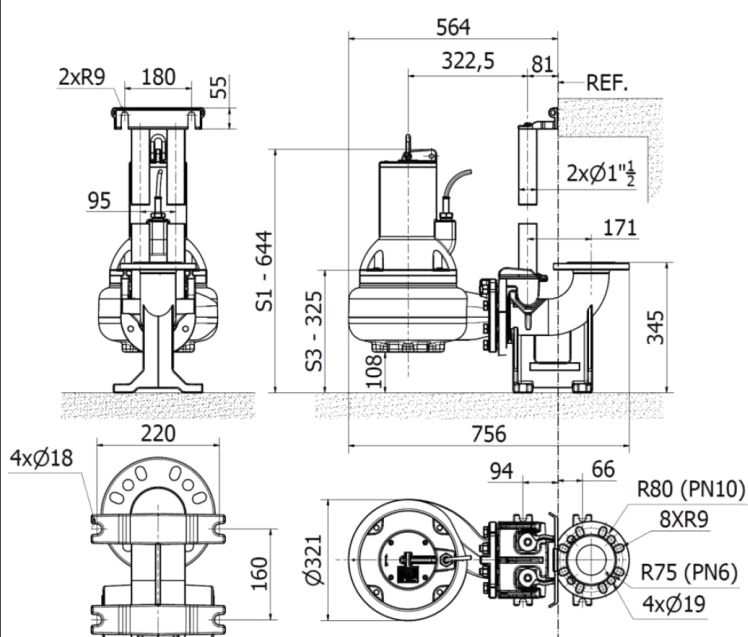
Packaging dimensions



Measures [mm]

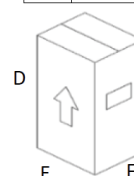
A	B	C
750	450	390

FC With foot coupling



8FC000004

- 1 1 1/2 guide rails bracket
- 2 Vertical foot - 3"out
- 3 Sliding bracket complete
- 4 Not supplied



D	550
E	600
F	400



Vortex Submersible Pump

VX80T3.722

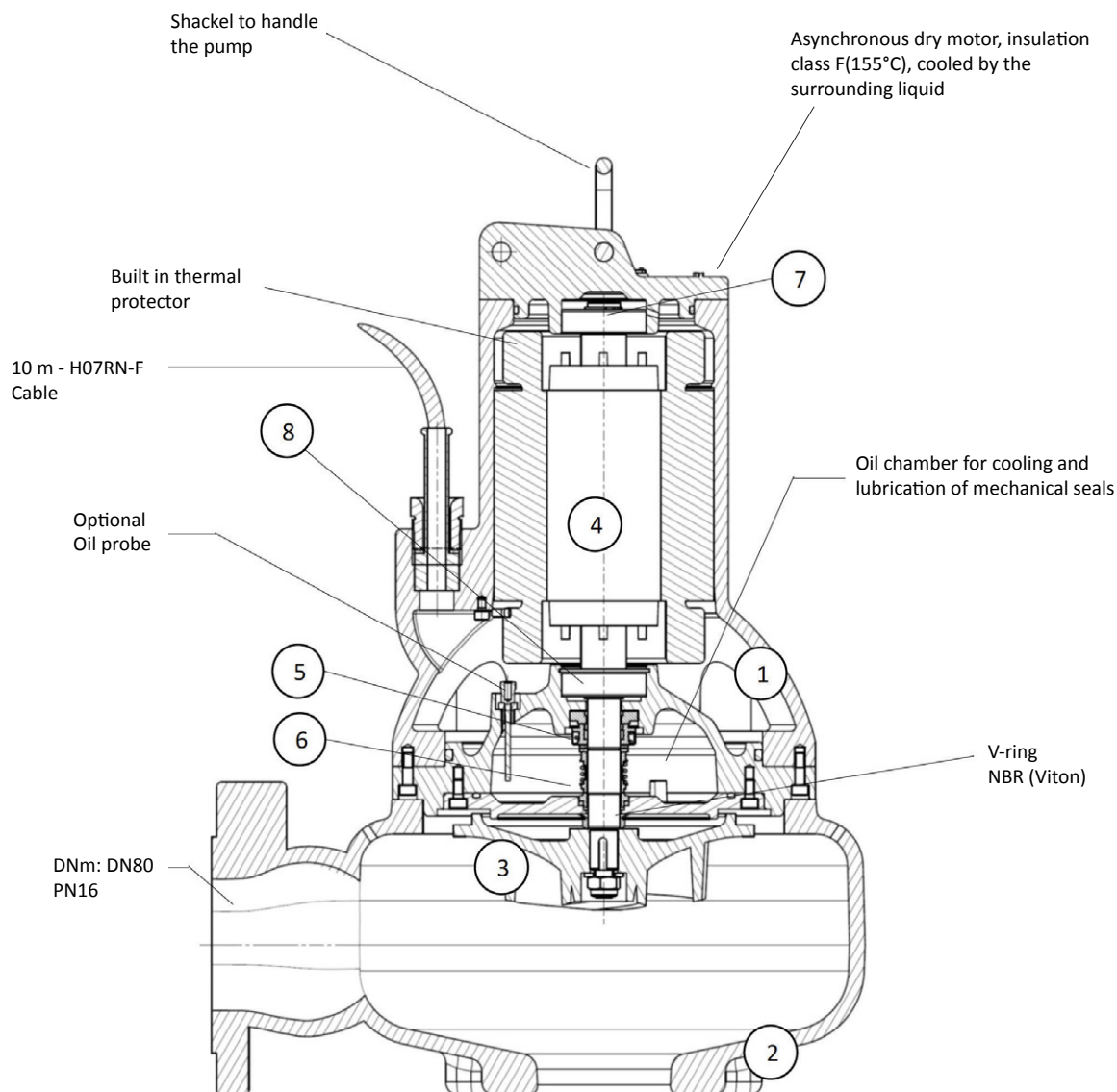


Vortex Submersible Pump

VX80T3.722



Construction features



No.	Description	Material
1	Motor group	Cast iron
2	Cover	Cast iron
3	Impeller	Cast iron
4	Shaft	AISI 420B

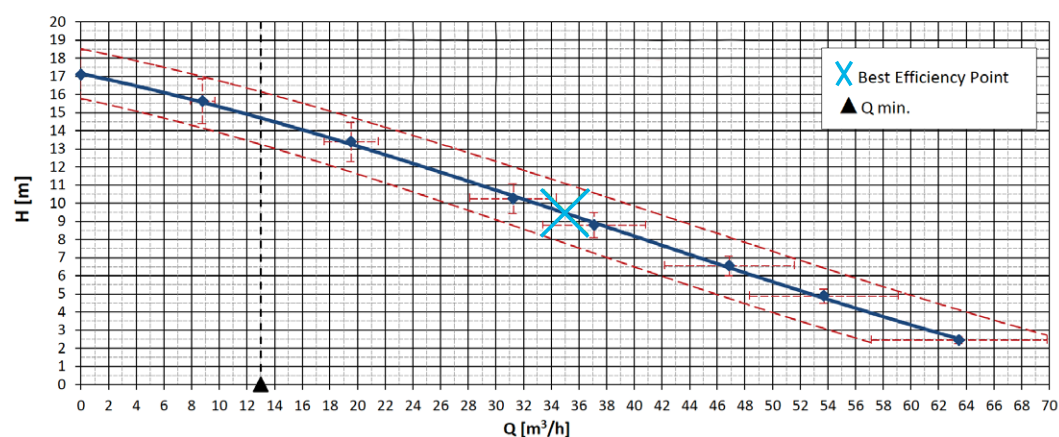
No.	Description	Material
5	Upper mech. seal	Carbon/Graphite/NBR
6	Lower mech. seal	SiC/SiC/NBR
7	Top bearing	6302-2RS
8	Lower bearing	6304-2RS

Vortex Submersible Pump

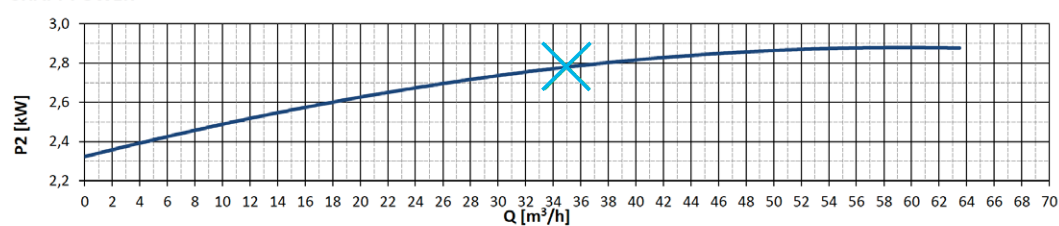
VX80T3.722



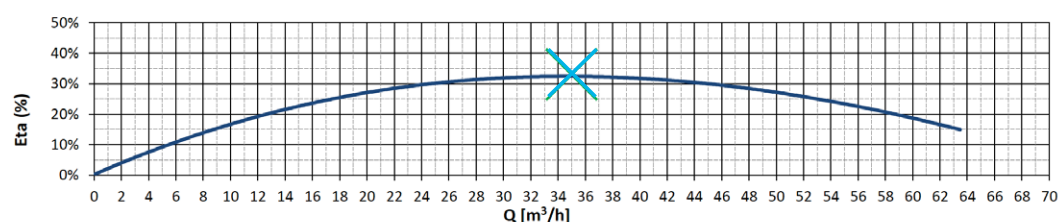
PERFORMANCE CURVE



SHAFT POWER



HYDRAULIC EFFICIENCY



FLOW (Q)	l/min	0,0	146,5	325,5	520,9	618,5	781,3	895,2	1058,0				
	l/s	0,0	2,4	5,4	8,7	10,3	13,0	14,9	17,6				
	m³/h	0,0	8,8	19,5	31,3	37,1	46,9	53,7	63,5				
HEAD (H)	m	17,1	15,6	13,4	10,3	8,8	6,5	4,9	2,4				

Specifications

Pump Type	VX80T	Discharge	80mm BSP	Humidity Probe	Yes
Code	VX80T3.722	Power Supply	3ph 400V - 50Hz	Cable Length	10m
Construction	Cast Iron	Nominal Speed	2900rpm	Max Flow	63.5m³/hr
Impeller Type	Vortex	Rated Motor Power	3.7kW	Max Head	17.1m
Weight	75kg	Starting Current	33A	Ingress Rating	IP68
Impeller diameter	168mm	Rated Current	6.6A		
Solids Passage	80mm	Thermal Protection	Yes		

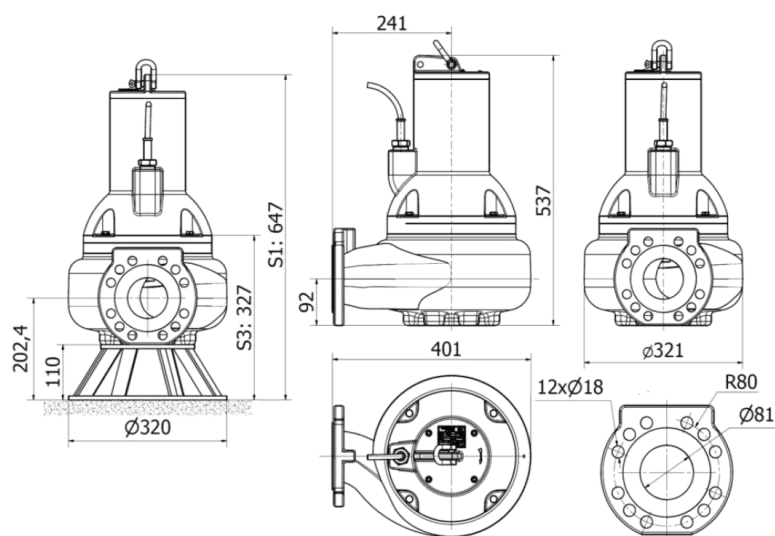
Vortex Submersible Pump

VX80T3.722

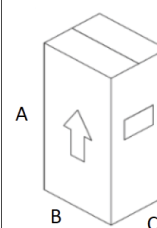


Dimensions and installation

S Installation mobile - Installation



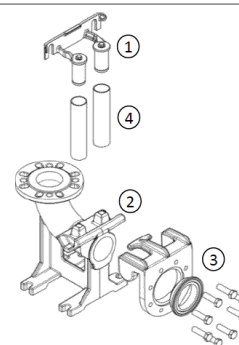
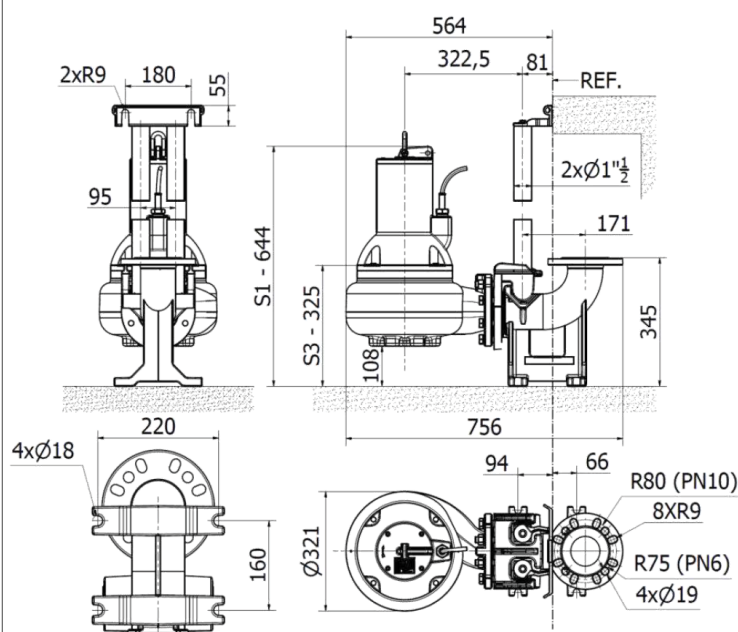
Packaging dimensions



Measures [mm]

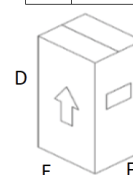
A	B	C
750	450	390

FC With foot coupling



8FC000004

- 1 1" 1/2 guide rails bracket
- 2 Vertical foot - 3" out
- 3 Sliding bracket complete
- 4 Not supplied



D 550

E 600

F 400



Vortex Submersible Pump

VX80T4.942

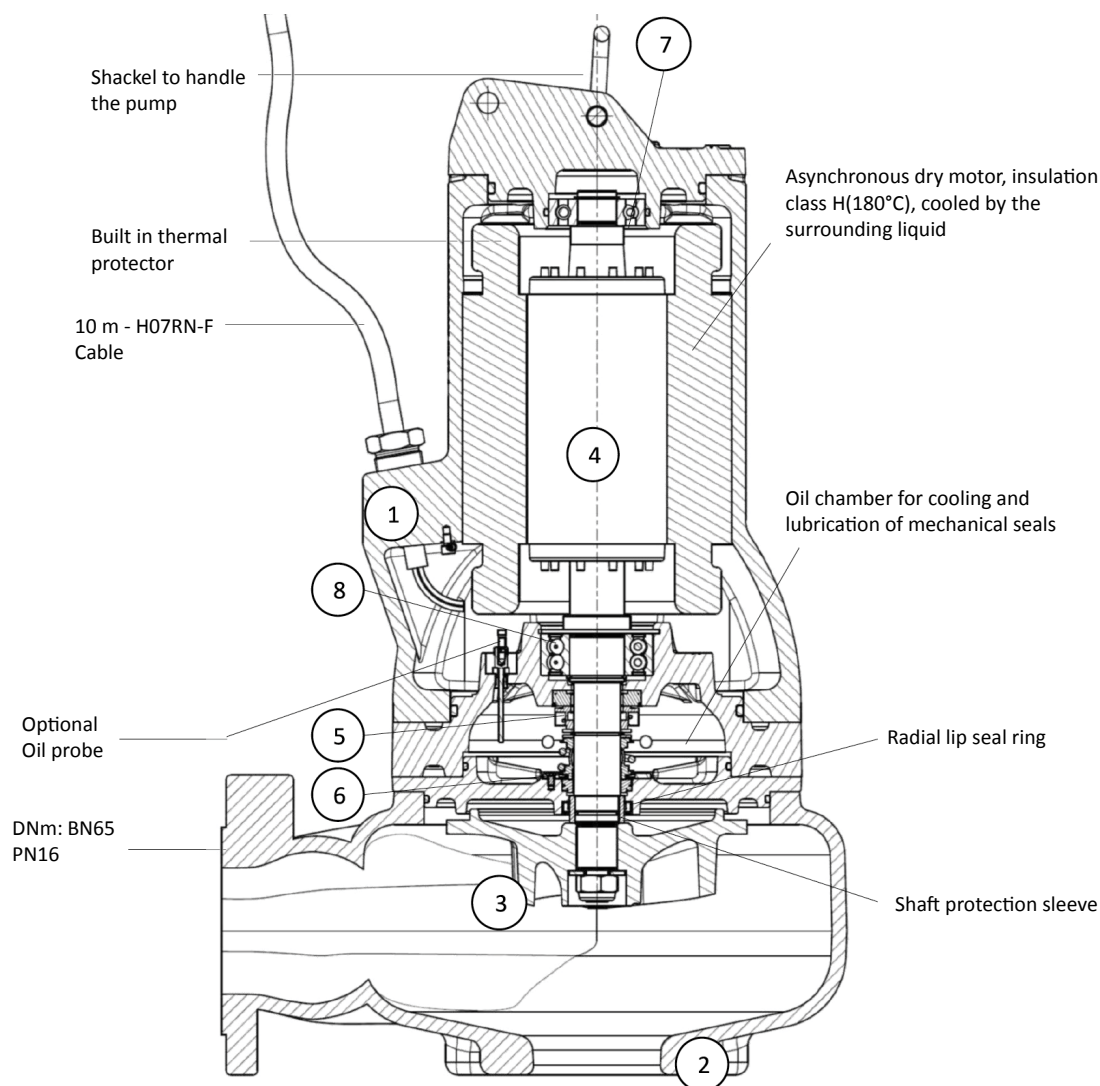


Vortex Submersible Pump

VX80T4.942



Construction features

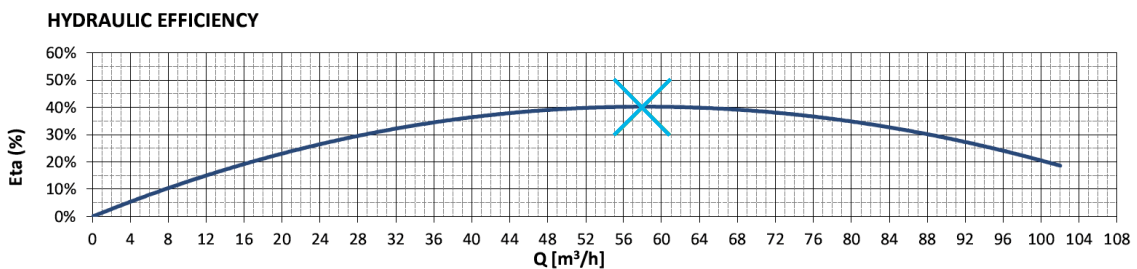
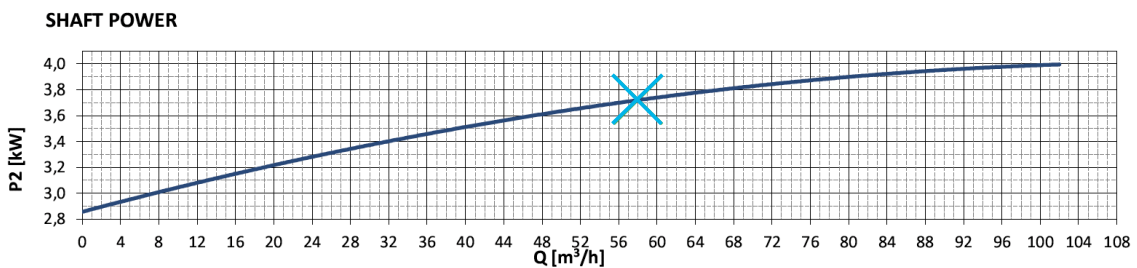
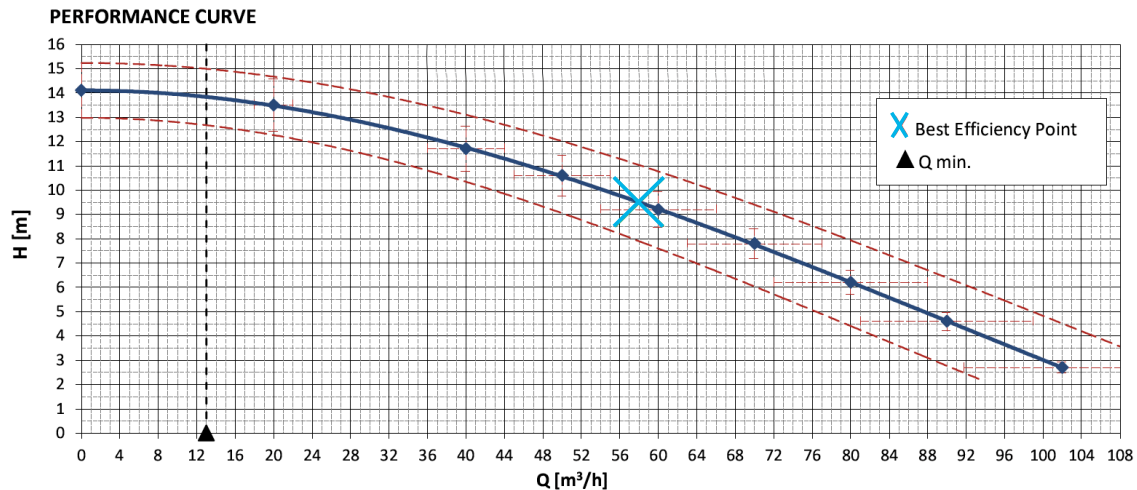


No.	Description	Material
1	Motor group	Cast iron
2	Cover	Cast iron
3	Impeller	Cast iron
4	Shaft	AISI 420B

No.	Description	Material
5	Upper mech. seal	Carbon/Graphite/NBR
6	Lower mech. seal	SiC/SiC/NBR
7	Top bearing	6305-2RS
8	Lower bearing	3207-2RS

Vortex Submersible Pump

VX80T4.942



FLOW (Q)	l/min	0,0	333,3	666,7	833,3	1000,0	1166,7	1333,3	1500,0	1700,0			
	l/s	0,0	5,6	11,1	13,9	16,7	19,4	22,2	25,0	28,3			
	m³/h	0,0	20,0	40,0	50,0	60,0	70,0	80,0	90,0	102,0			
HEAD (H)	m	14,1	13,5	11,7	10,6	9,2	7,8	6,2	4,6	2,7			

Specifications

Pump Type	VX80T	Discharge	80mm BSP	Humidity Probe	Yes
Code	VX80T4.942	Power Supply	3ph 400V - 50Hz	Cable Length	10m
Construction	Cast Iron	Nominal Speed	1450rpm	Max Flow	102m³/hr
Impeller Type	Vortex	Rated Motor Power	4.9kW	Max Head	14.1m
Weight	108kg	Starting Current	44.5A	Ingress Rating	IP68
Impeller diameter	220mm	Rated Current	8.1A		
Solids Passage	80mm	Thermal Protection	Yes		

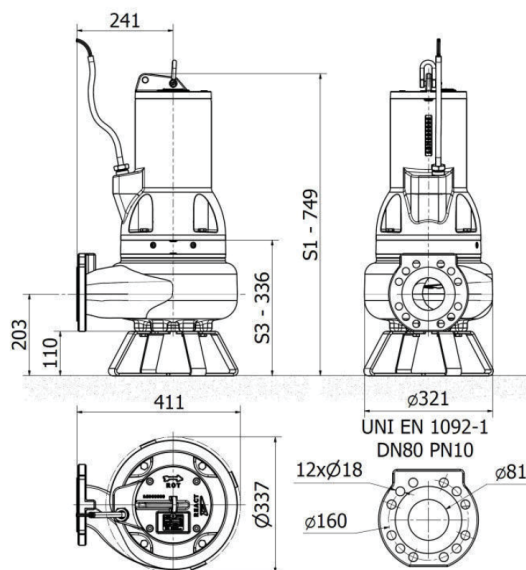
Vortex Submersible Pump

VX80T4.942

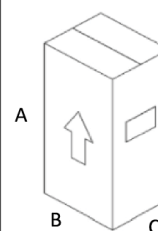


Dimensions and installation

S Installation mobile



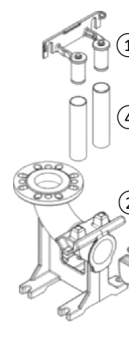
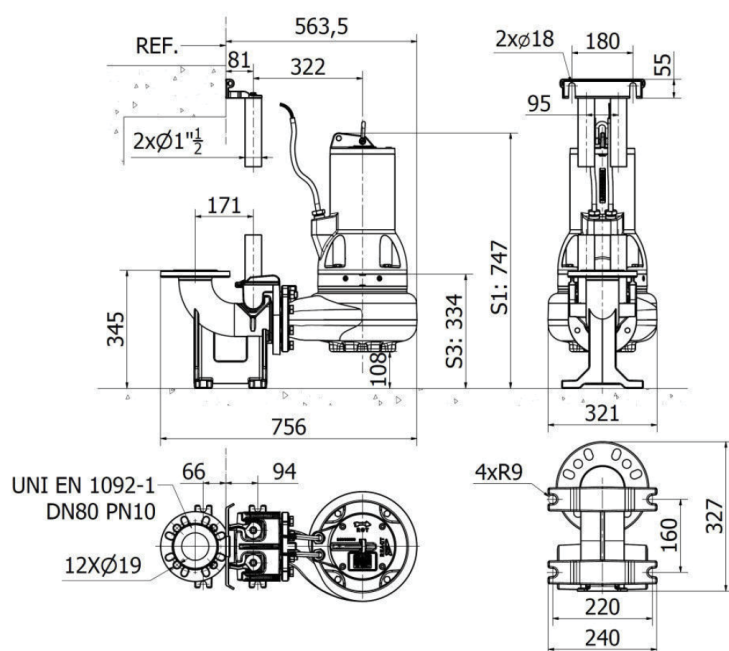
Packaging dimensions



Measures [mm]

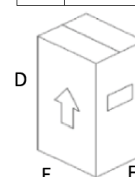
A	B	C
750	450	390

FC With foot coupling



8FC000004 KG: 30

- 1 1"1/2 guide rails bracket
- 2 Vertical foot - 3"out
- 3 Sliding bracket complete
- 4 Not supplied



D 550

E 600

F 400



Vortex Submersible Pump

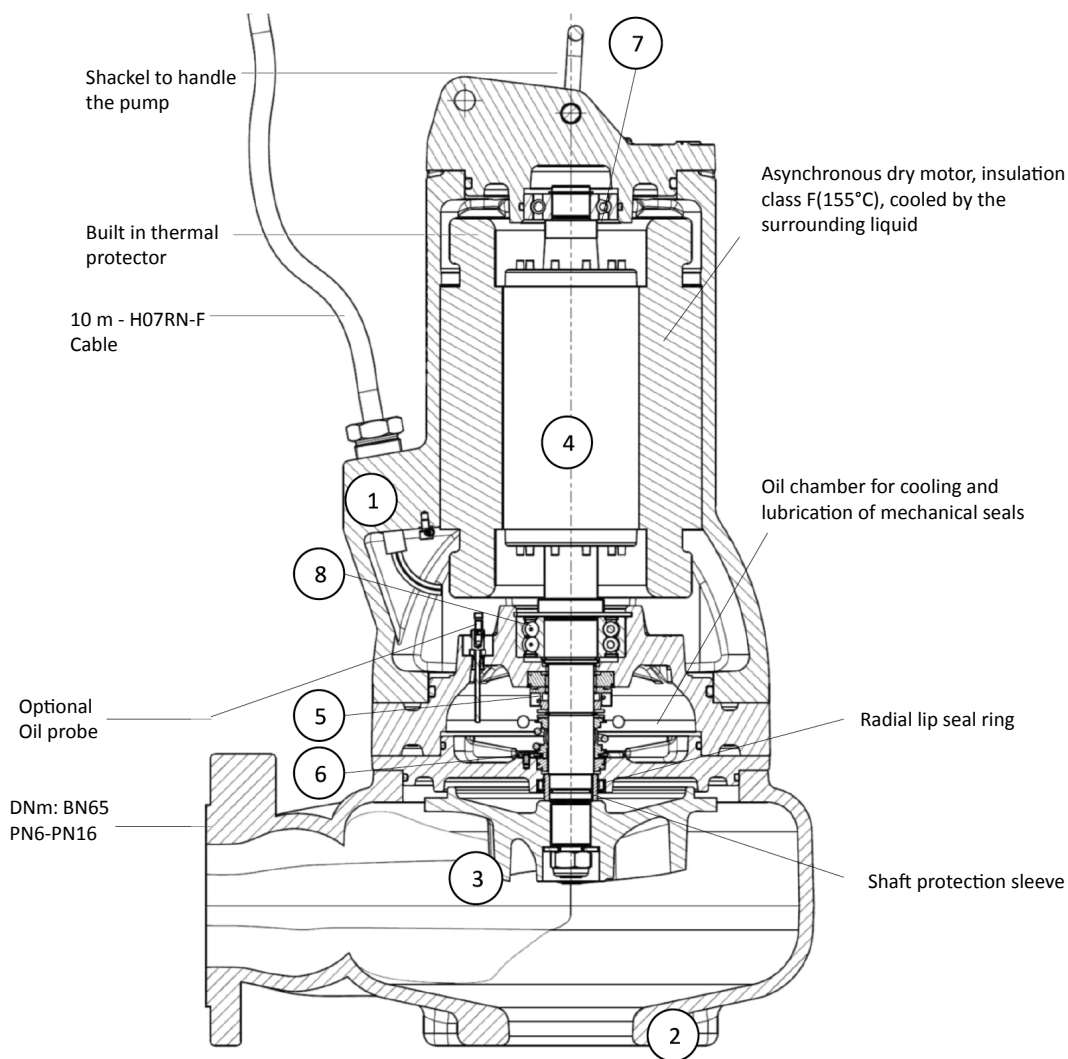
VX80T5.522



Vortex Submersible Pump VX80T5.522



Construction features



No.	Description	Material
1	Motor group	Cast iron
2	Cover	Cast iron
3	Impeller	Cast iron
4	Shaft	AISI 420B

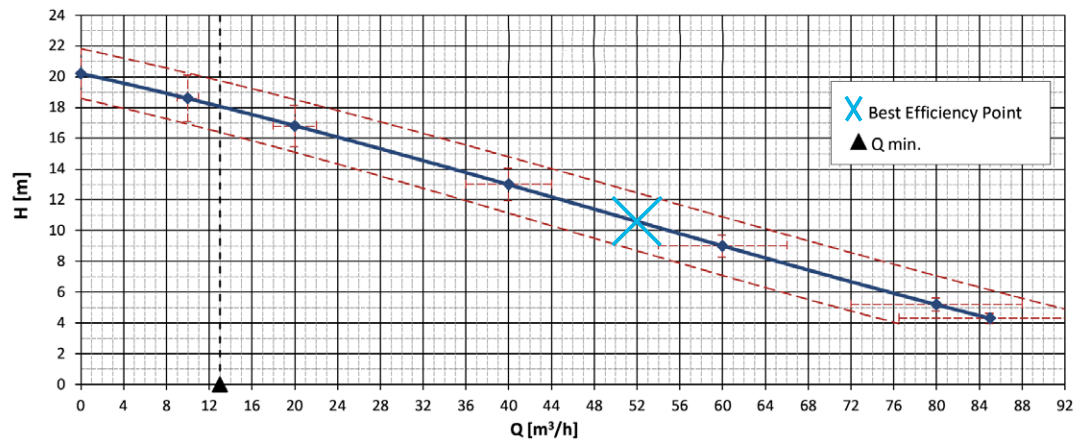
No.	Description	Material
5	Upper mech. seal	Carbon/Graphite/NBR
6	Lower mech. seal	SiC/SiC/NBR
7	Top bearing	6305-2RS
8	Lower bearing	3207-2RS

Vortex Submersible Pump VX80T5.522

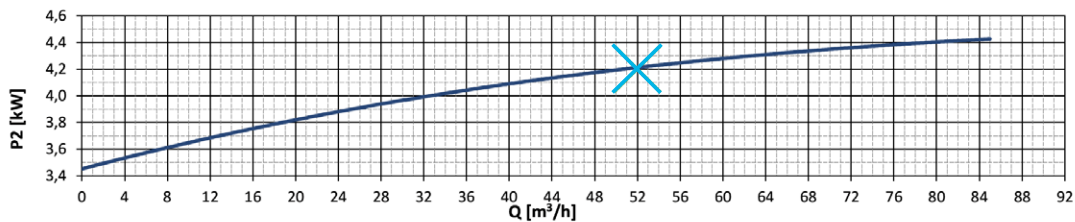


Influence area

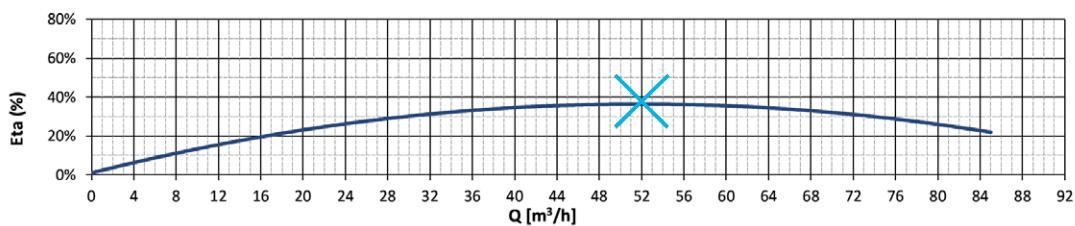
PERFORMANCE CURVE



SHAFT POWER



HYDRAULIC EFFICIENCY



FLOW (Q)	l/min	0,0	166,7	333,3	666,7	1000,0	1333,3	1416,7						
	l/s	0,0	2,8	5,6	11,1	16,7	22,2	23,6						
	m³/h	0,0	10,0	20,0	40,0	60,0	80,0	85,0						
HEAD (H)	m	20,2	18,6	16,8	13,0	9,0	5,2	4,3						

Specifications

Pump Type	VX80T	Discharge	80mm BSP	Humidity Probe	Yes
Code	VX80T5.522	Power Supply	3ph 400V - 50Hz	Cable Length	10m
Construction	Cast Iron	Nominal Speed	2900rpm	Max Flow	85m3/hr
Impeller Type	Vortex	Rated Motor Power	5.5kW	Max Head	20.2m
Weight	103kg	Starting Current	57A	Ingress Rating	IP68
Impeller diameter	161mm	Rated Current	10A		
Solids Passage	80mm	Thermal Protection	Yes		

Vortex Submersible Pump

VX80T5.522



Dimensions and installation

S	Installation mobile									
Packaging dimensions <table border="1"> <thead> <tr> <th colspan="3">Measures [mm]</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>750</td> <td>450</td> <td>390</td> </tr> </tbody> </table>		Measures [mm]			A	B	C	750	450	390
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