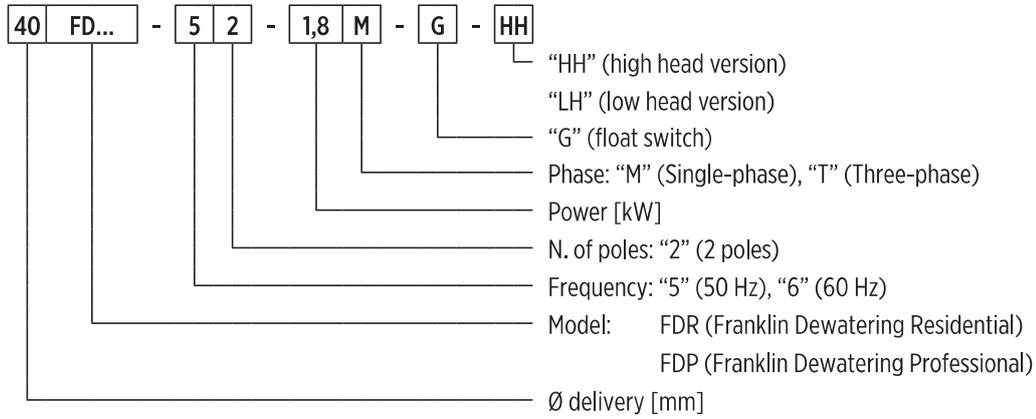


FDP Series - Submersible pumps for professional drainage 50 Hz



FDP SERIES - SUBMERSIBLE PUMPS FOR PROFESSIONAL DRAINAGE 50 HZ

PUMP IDENTIFICATION CODE



00140089 04/2023



40-50FDP SERIES 50 HZ

FEATURES & BENEFITS

APPLICATIONS



Drainage and dewatering



Rainwater Recovery



Construction site drainage and dewatering



Mining, Quarrying drainage and dewatering

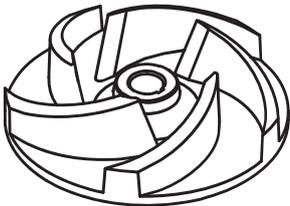


MARKETS



SUBMERSIBLE PUMPS FOR CLEAR AND TURBID WATER DRAINAGE

Submersible electric pumps in cast iron and stainless steel, suitable for draining clear and turbid waters. They can be used as ready-to-use portable pumps both for construction site use, basement wells, and for fixed installations with control panel.



00150305 04/2023

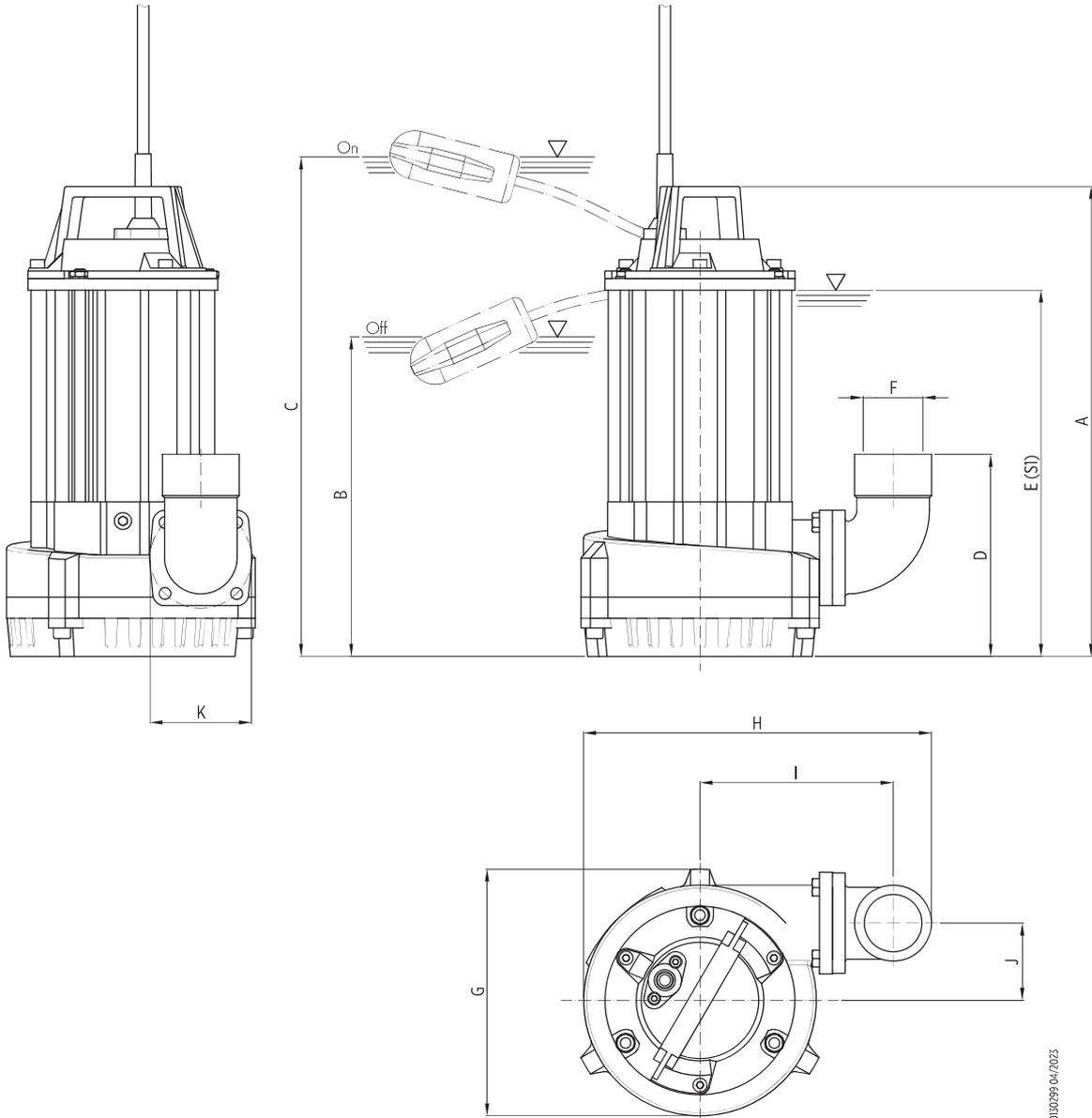
OPEN IMPELLER

GENERAL FEATURES

		Materials/Constr.design
Open impeller		Cast iron EN GJL200
External casing		Aluminium alloy EN AW6060
Pump body		Aluminium alloy
Cover		Aluminium alloy
Filter		Aluminium alloy
Wear plate	40FDP-52-1,0M	Stainless steel AISI304
	50FDP-52-1,4M, 50FDP-52-1,8M	Aluminium alloy with rubber coating
Mechanical seal		Silicon carbide (SiC/SiC)
Motor shaft		Stainless steel AISI420
Power cable	Type	10 m H07RN-F type
	Single-phase 40FDP-52-1,0M	4G1,5mm ² , capacitor box and SCHUKO plug (CEE 7/VII)
	Single-phase 50FDP-52-1,4M, 50FDP-52-1,8M	4G2,5mm ² , capacitor box and SCHUKO plug (CEE 7/VII)
	Three-phase	4G1,5mm ²
		Motor
Constr.design		asynchronous squirrel cage-type oil filled
Type		2 poles; 50 Hz
Insulation class		F
Protection degree		IP68
Voltage	Single-phase	230V ±6% built-in overheating protection (up to 1,1 kW), float switch as optional
	Three-phase	230V ±10%, 400V ±10%
		Limits of use
Maximum liquid temperature		+ 40°C
pH of pumped liquid		5 - 8
Liquid density		1,0 kg/dm ³
Maximum immersion depth:		5 m
Min. immersion depth for continuous service		see "Dimensional drawings"
Free passage		6 mm
Max. number of starting/hour		20
		Construction options

- 60 Hz version
- Different voltages
- Food-grade white oil

DIMENSIONAL DRAWINGS



001000995 04/2023

Pump model	Dimensions [mm]										
	A	B	C	D	E	F	G	H	I	J	K
40FDP-52-1,0M	390	-	-	162	290	G1½	190	290	175	60	75
40FDP-52-1,0T	390	-	-	162	290	G1½	190	290	175	60	75
40FDP-52-1,0M-G	390	230	440	162	290	G1½	190	290	175	90	75
40FDP-52-1,0T-G	390	-	-	162	290	G1½	190	290	175	60	75
40FDP-52-1,1T	390	-	-	162	290	G1½	190	290	175	60	75
40FDP-52-1,1T-G	390	-	-	162	290	G1½	190	290	175	60	75
50FDP-52-1,4M	445	-	-	190	345	G2	233	326	180	73	95
50FDP-52-1,4M-G	485	240	530	190	345	G2	233	326	180	73	95
50FDP-52-1,8M	445	-	-	190	345	G2	233	326	180	73	95
50FDP-52-1,8T	445	-	-	190	345	G2	233	326	180	73	95
50FDP-52-1,8M-G	485	240	530	190	345	G2	233	326	180	73	95
50FDP-52-1,8T-G	485	240	530	190	345	G2	233	326	180	73	95
50FDP-52-2,2T	445	-	-	190	345	G2	233	326	180	73	95
50FDP-52-2,2T-G	485	240	530	190	345	G2	233	326	180	73	95

Packaging		
Pump model	Dimensions [mm]	Weight [kg]
40FDP-52-1,0M	255x205x560	20,7
40FDP-52-1,0T	255x205x560	20,7
40FDP-52-1,0M-G	290x245x585	21
40FDP-52-1,0T-G	255x205x560	20,7
40FDP-52-1,1T	255x205x560	20,7
40FDP-52-1,1T-G	255x205x560	22,7
50FDP-52-1,4M	300x260x585	24
50FDP-52-1,4M-G	300x260x585	26
50FDP-52-1,8M	300x260x585	28
50FDP-52-1,8T	300x260x585	26
50FDP-52-1,8M-G	300x260x585	30
50FDP-52-1,8T-G	300x260x585	28
50FDP-52-2,2T	300x260x585	27
50FDP-52-2,2T-G	300x260x585	29

TECHNICAL DATA

Pump model	Motor absorbed power P ₁	Rated power P ₂		Voltage	Rated current	Phase	Power cable		float switch	Running capacitor	Delivery port	Weight [kg]
	[kW]	[kW]	[HP]	[V]	[A]		length [m]	Type		[μf]		
40FDP-52-1,0M	1,4	1	1,36	230	7,2	1 ~	10	4G1,5	-	25	G1½	20
40FDP-52-1,0T	1,4	1	1,36	400	2	3 ~	10	4G1,5	-	-	G1½	20
40FDP-52-1,0M-G	1,4	1	1,36	230	7,2	1 ~	10	4G1,5	•	25	G1½	20
40FDP-52-1,0T-G	1,4	1	1,36	400	2	3 ~	10	4G1,5	•	-	G1½	20
40FDP-52-1,1T	1,7	1,1	1,5	400	3	3 ~	10	4G1,5	-	-	G1½	20
40FDP-52-1,1T-G	1,7	1,1	1,5	400	3	3 ~	10	4G1,5	•	-	G1½	22
50FDP-52-1,4M	2,1	1,4	1,9	230	12	1 ~	10	4G2,5	-	25	G2	23
50FDP-52-1,4M-G	2,1	1,4	1,9	230	12	1 ~	10	4G2,5	•	25	G2	25
50FDP-52-1,8M	2,4	1,8	2,4	230	14	1 ~	10	4G2,5	-	30	G2	27
50FDP-52-1,8T	2,4	1,8	2,4	400	4,6	3 ~	10	4G1,5	-	-	G2	25
50FDP-52-1,8M-G	2,4	1,8	2,4	230	14	1 ~	10	4G2,5	•	30	G2	29
50FDP-52-1,8T-G	2,4	1,8	2,4	400	4,6	3 ~	10	4G1,5	•	-	G2	27
50FDP-52-2,2T	2,9	2,2	3	400	5	3 ~	10	4G1,5	-	-	G2	26
50FDP-52-2,2T-G	2,9	2,2	3	400	5	3 ~	10	4G1,5	•	-	G2	28

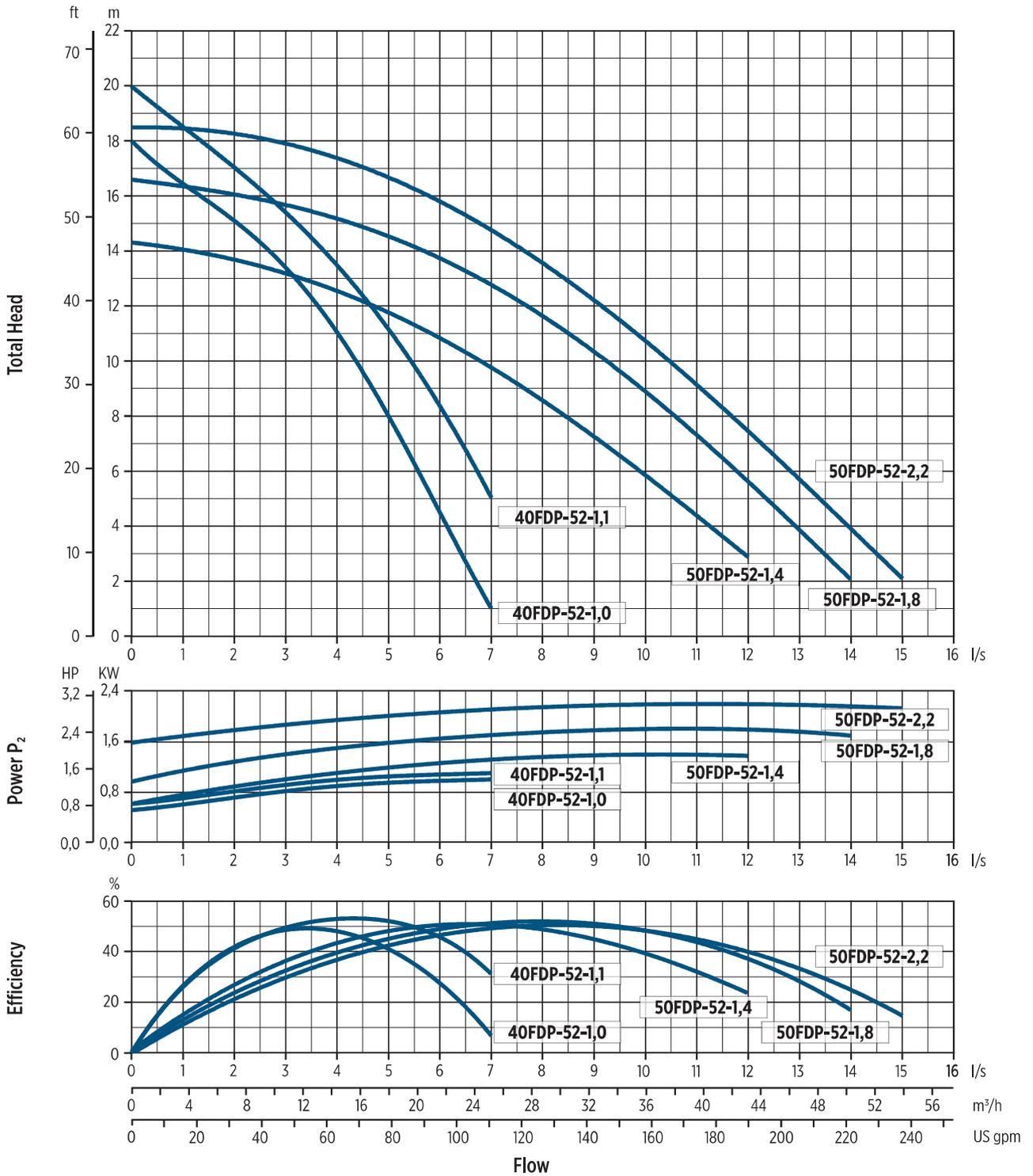
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HYDRAULIC PERFORMANCE AT 50 HZ

Pump model	Phase	Q = Delivery															
		l/sec 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
		m ³ /h 0	3,6	7,2	10,8	14,4	18	21,6	25,2	28,8	32,4	36	39,6	43,2	46,8	50,4	54
		US gpm 0	15,8	31,7	47,5	63,4	79,2	92,1	110,9	126,8	142,6	158,5	174,3	190,2	206	221,9	237,7
		H = Total meters head of water column [m]															
40FDP-52-1,0	1 ~	18	16,5	15	13,5	11	8	4,5	1								
	3 ~	18	16,5	15	13,5	11	8	4,5	1								
40FDP-52-1,1	3 ~	20	18,5	17	15,5	13,5	11	8,5	5								
50FDP-52-1,4	1 ~	14,3	14,1	13,7	13,1	12,5	11,8	11	9,8	8,5	7	6	4,5	2,8			
50FDP-52-1,8	1 ~	16,6	16,3	16,1	15,8	15,1	14,2	14	12,8	11,8	10,2	9	7	5,8	4	2	
	3 ~	16,6	16,3	16,1	15,8	15,1	14,2	14	12,8	11,8	10,2	9	7	5,8	4	2	
50FDP-52-2,2	3 ~	18,5	18,5	18,2	17,8	17,5	16,5	16	14,7	13,9	12	10,5	9,1	7,5	5,8	4	2

PERFORMANCE CURVES AT 50 HZ



0020105-04/2023

40FDP-HH SERIES 50 HZ

FEATURES & BENEFITS

APPLICATIONS



Drainage and dewatering



Rainwater Recovery



Construction site drainage and dewatering



Mining, Quarrying drainage and dewatering



MARKETS



COMMERCIAL



INDUSTRY



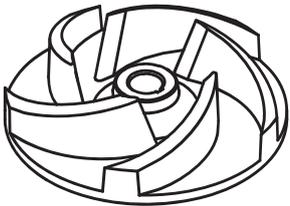
CONSTRUCTION



MINING

HIGH HEAD VERSION SUBMERSIBLE PUMPS FOR CLEAR AND TURBID WATER DRAINAGE

Submersible electric pumps in cast iron and stainless steel, suitable for draining clear and turbid waters. They can be used as ready-to-use portable pumps both for construction site use, basement wells, and for fixed installations with control panel.



0013336-01/2023

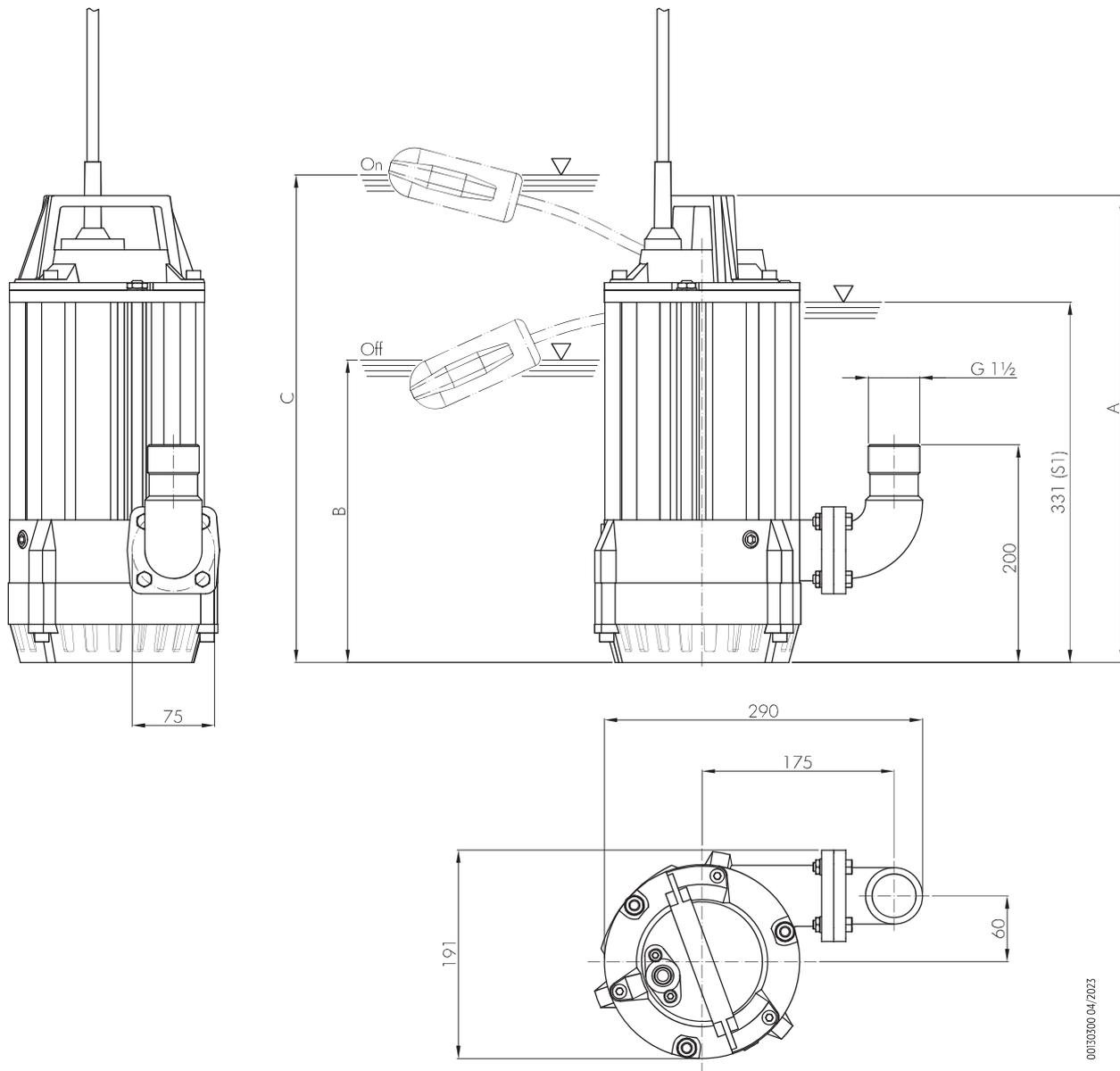
DOUBLE OPEN IMPELLER

GENERAL FEATURES

		Materials/Constr.design
Double open impeller		Cast iron EN GJL200
External casing		Aluminium alloy EN AW6060
Pump body		Aluminium alloy
Cover		Aluminium alloy
Filter		Aluminium alloy
Wear plate		Stainless steel AISI304
Mechanical seal		Silicon carbide (SiC/SiC)
Motor shaft		Stainless steel AISI431
Power cable	Type	10 m H07RN-F type
	Single-phase	4G2,5mm ² , capacitor box and SCHUKO plug (CEE 7/VII)
	Three-phase	4G1,5mm ²
		Motor
Constr.design		asynchronous squirrel cage-type oil filled
Type		2 poles; 50 Hz
Insulation class		F
Protection degree		IP68
Voltage	Single-phase	230V ±6%, float switch as optional
	Three-phase	230V ±10%, 400V ±10%
		Limits of use
Maximum liquid temperature		+ 40°C
pH of pumped liquid		5 - 8
Liquid density		1,0 kg/dm ³
Maximum immersion depth:		5 m
Min. immersion depth for continuous service		331 mm
Free passage		6 mm
Max. number of starting/hour		20
		Construction options

- 60 Hz version
- Different voltages
- Food-grade white oil

DIMENSIONAL DRAWINGS



00133300 04/2023

Pump model	Dimensions [mm]		
	A	B	C
40FDP-52-1,4M-HH	429	-	-
40FDP-52-1,4M-G-HH	469	250	570
40FDP-52-1,8M-HH	429	-	-
40FDP-52-1,8T-HH	429	-	-
40FDP-52-1,8M-G-HH	469	250	570
40FDP-52-1,8T-G-HH	469	250	570

Packaging		
Pump model	Dimensions [mm]	Weight [kg]
40FDP-52-1,4M-HH	290x245x585	23
40FDP-52-1,4M-G-HH	290x245x585	25
40FDP-52-1,8M-HH	290x245x585	26
40FDP-52-1,8T-HH	255x205x560	22,7
40FDP-52-1,8M-G-HH	290x245x585	28
40FDP-52-1,8T-G-HH	290x245x585	25

TECHNICAL DATA

Pump model	Motor absorbed power P ₁	Rated power P ₂		Voltage	Rated current	Phase	Power cable		float switch	Running capacitor	Delivery port	Weight [kg]
	[kW]	[kW]	[HP]	[V]	[A]		length [m]	Type		[μf]		
40FDP-52-1,4M-HH	2,2	1,4	1,9	230	12	1 ~	10	4G2,5	-	25	G1½	22
40FDP-52-1,4M-G-HH	2,2	1,4	1,9	230	12	1 ~	10	4G2,5	•	25	G1½	24
40FDP-52-1,8M-HH	2,7	1,8	2,4	230	14	1 ~	10	4G2,5	-	30	G1½	25
40FDP-52-1,8T-HH	2,4	1,8	2,4	400	4,6	3 ~	10	4G1,5	-	-	G1½	22
40FDP-52-1,8M-G-HH	2,7	1,8	2,4	230	14	1 ~	10	4G2,5	•	30	G1½	27
40FDP-52-1,8T-G-HH	2,4	1,8	2,4	400	4,6	3 ~	10	4G1,5	•	-	G1½	24

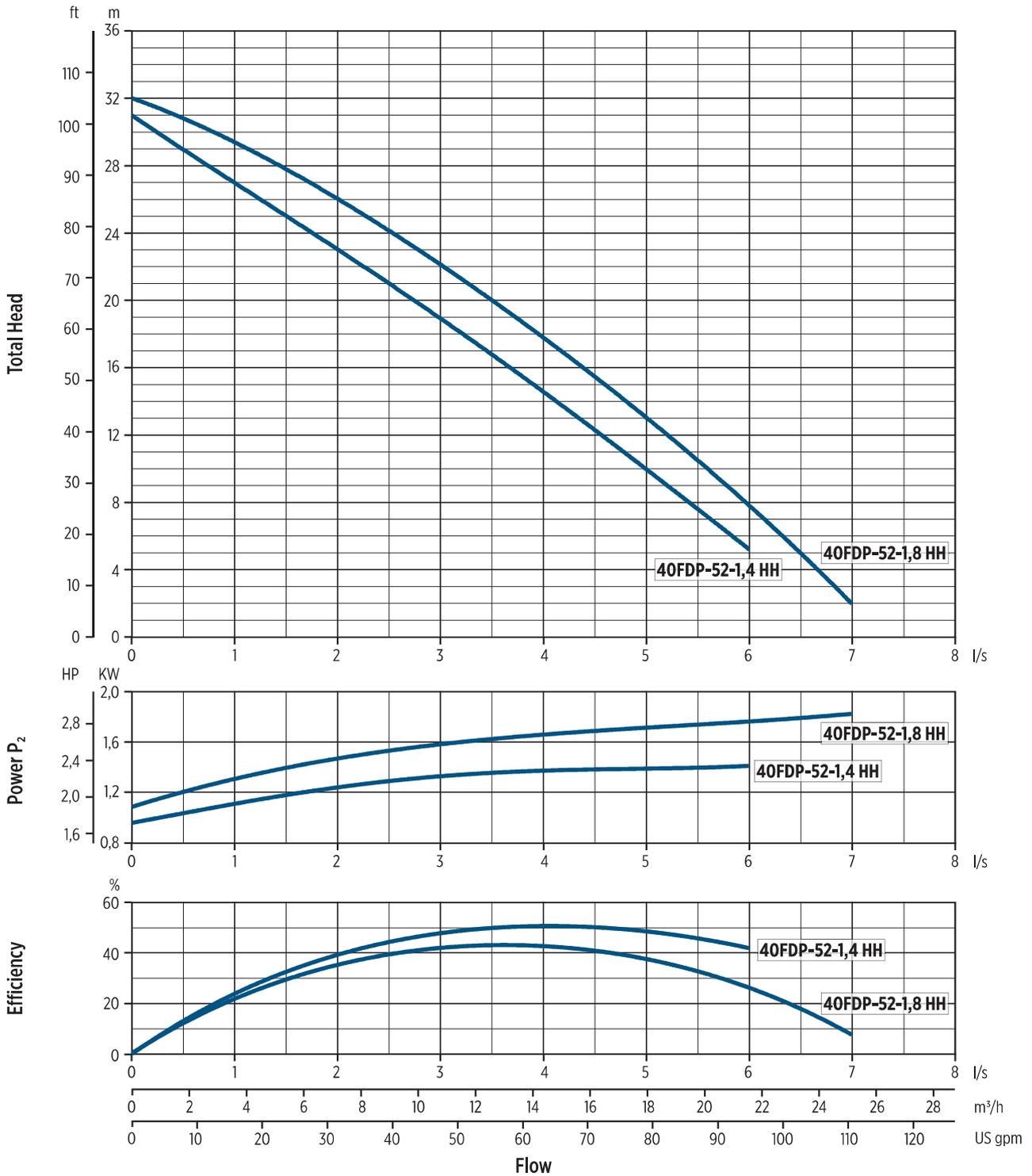
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HYDRAULIC PERFORMANCE AT 50 HZ

Pump model	Phase	Q = Delivery							
		l/sec 0	1	2	3	4	5	6	7
		m ³ /h 0	3,6	7,2	10,8	14,4	18	21,6	25,2
		US gpm 0	15,8	31,7	47,5	63,4	79,2	92,1	110,9
H = Total meters head of water column [m]									
40FDP-52-1,4 HH	1 ~	31	27	23	19	14,5	10	5,2	
40FDP-52-1,8 HH	1 ~	32	29,5	26	22	18	13	7,8	2
40FDP-52-1,8 HH	3 ~	32	29,5	26	22	18	13	7,8	2

PERFORMANCE CURVES AT 50 HZ



00120110_04/2023

70/80FDP SERIES 50 HZ

FEATURES & BENEFITS

APPLICATIONS



Drainage and dewatering



Rainwater Recovery



Construction site drainage and dewatering



Mining, Quarrying drainage and dewatering



Emergency flood water drainage

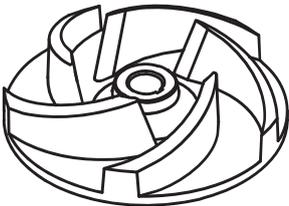


MARKETS



SUBMERSIBLE PUMPS FOR CLEAR AND TURBID WATER DRAINAGE

Submersible electric pumps suitable for draining clear and turbid water. Suitable for use on construction sites and for pumping liquids, including abrasive ones. Due to their handling they can be easily transported.



00150305 04/2023

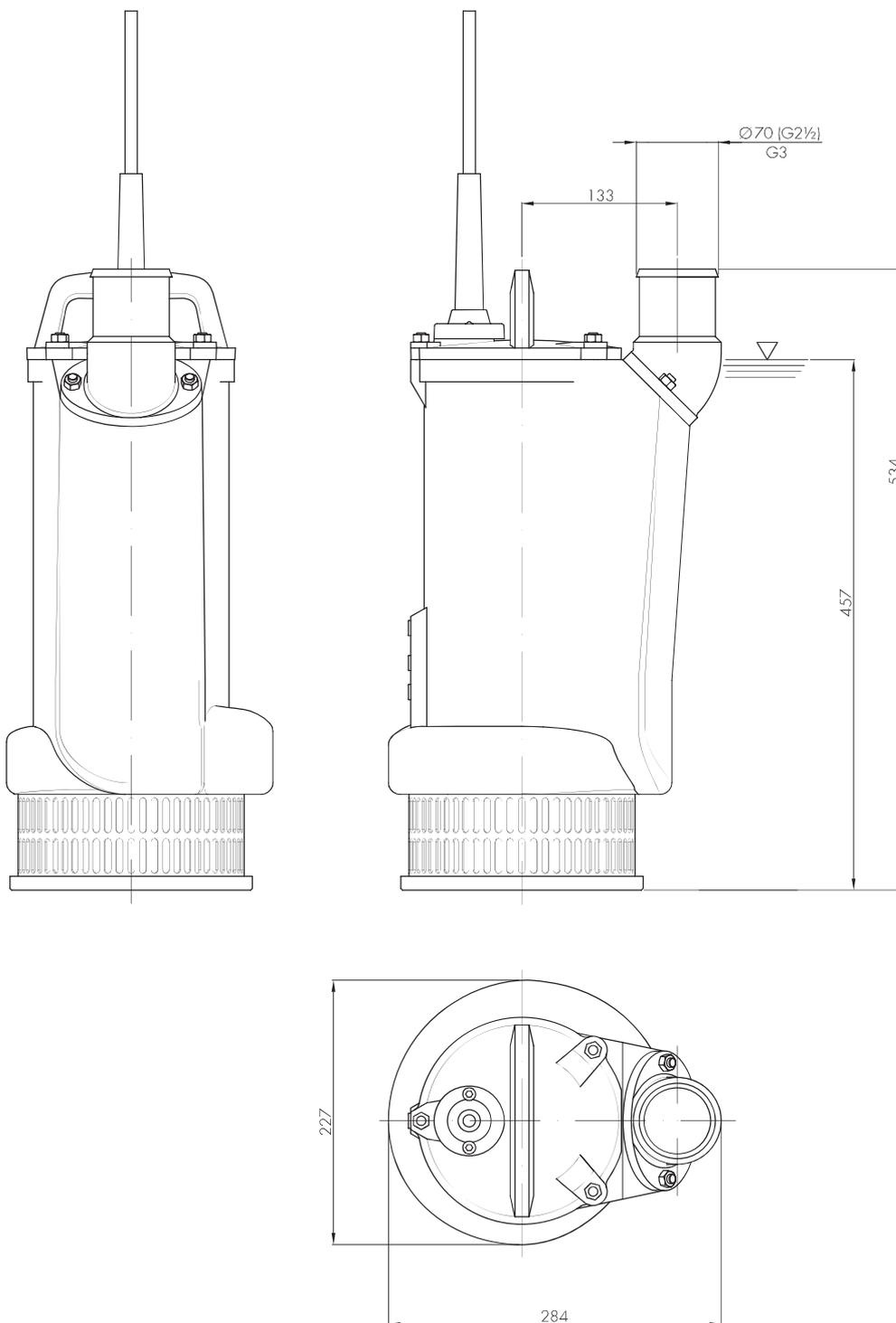
OPEN IMPELLER

GENERAL FEATURES

		Materials/Constr.design
Open impeller		Martensitic stainless steel
External casing		Aluminium alloy
Pump body		Aluminium alloy
Cover		Aluminium alloy
Filter		Stainless steel AISI304
Wear plate		Aluminium alloy with rubber coating
Mechanical seal	motor side	Graphite/Alumina
	pump side	Silicon carbide (SiC/SiC)
Motor shaft		Stainless steel AISI420
Power cable	Type	10 m H07RN-F type
	Single-phase 70FDP-52-2,2M	4G2,5mm ² , capacitor box and SCHUKO plug (CEE 7/VII)
	Three-phase 80FDP-52-4,1T	4G2,5mm ²
	Three-phase	4G1,5mm ²
		Motor
Constr.design		asynchronous squirrel cage-type in dry chamber
Type		2 poles; 50 Hz
Insulation class		F
Protection degree		IP68
Voltage	Single-phase	230 V ±6%
	Three-phase	230V ±10%, 400V ±10%
		Limits of use
Maximum liquid temperature		+ 40°C
pH of pumped liquid		5 - 8
Liquid density		1,1 kg/dm ³
Maximum immersion depth:		5 m
Min. immersion depth for continuous service		457 mm
Free passage		6 mm
Max. number of starting/hour		20
		Construction options

- 60 Hz version
- Different voltages
- With coating in composite material for wear protection (possible variations of the hydraulic performance)

DIMENSIONAL DRAWINGS



00130301 04/2023

Packaging		
Pump model	Dimensions [mm]	Weight [kg]
70FDP-52-2,2	300x260x585	34
70FDP-52-3,5	290x245x585	32
80FDP-52-4,1	300x260x585	36

TECHNICAL DATA

Pump model	Motor absorbed power P ₁	Rated power P ₂		Voltage	Rated current	Phase	Power cable		float switch	Running capacitor	Delivery port	Weight [kg]
	[kW]	[kW]	[HP]	[V]	[A]		length [m]	Type		[μf]		
70FDP-52-2,2M	3	2,2	3	230	14	1 ~	10	4G2,5	-	50	Ø70	33
70FDP-52-2,2T	3	2,2	3	400	5,2	3 ~	10	4G1,5	-	-	Ø70	30
70FDP-52-3,5T	4,7	3,5	4,7	400	8	3 ~	10	4G1,5	-	-	Ø70	31
80FDP-52-4,1T	6,2	4,1	5,5	400	9,9	3 ~	10	4G2,5	-	-	G3	35

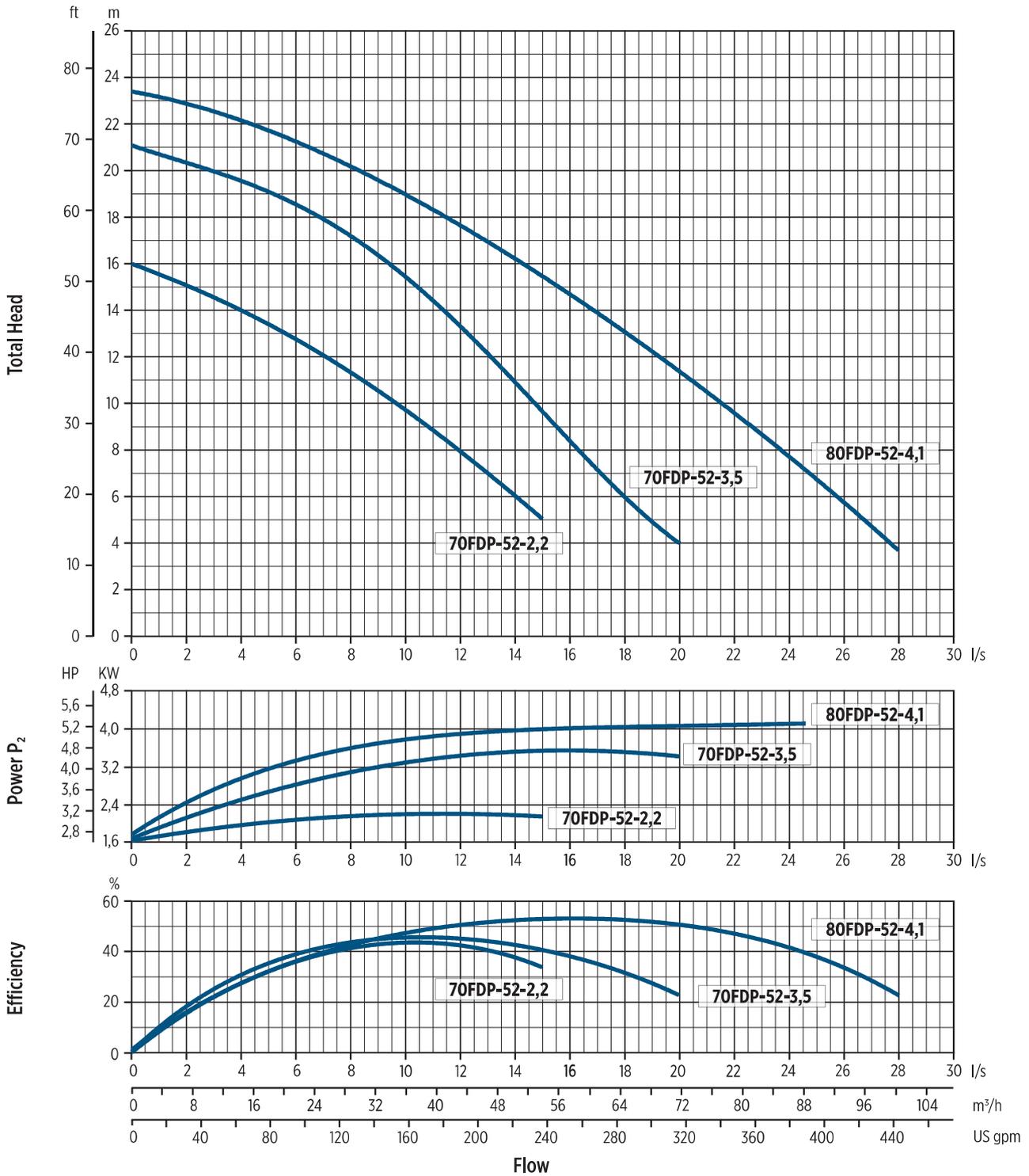
"-" = not available

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HYDRAULIC PERFORMANCE AT 50 HZ

Pump model	Phase	Q = Delivery										
		l/sec 0	2	4	6	8	10	12	15	20	25	28
		m ³ /h 0	7,2	14,4	21,6	28,8	36	43,2	54	72	90	100,8
		US gpm 0	31,7	63,4	92,1	126,8	158,5	190,2	237,7	317	396,2	443,8
		H = Total meters head of water column [m]										
70FDP-52-2,2	1 ~	16	15	14	12,8	11,3	9,6	8	5			
70FDP-52-2,2	3 ~	16	15	14	12,8	11,3	9,6	8	5			
70FDP-52-3,5	3 ~	21	20,5	19,5	18,5	17	15,5	13,5	9,5	4		
80FDP-52-4,1	3 ~	23,3	22,9	22,5	21	20,5	18,5	17,5	15,8	11,5	6,5	3,8

PERFORMANCE CURVES AT 50 HZ



00120111 04/2023

100FDP SERIES 50 HZ

FEATURES & BENEFITS

APPLICATIONS



Drainage and dewatering



Rainwater Recovery



Construction site drainage and dewatering



Mining, Quarrying drainage and dewatering



Emergency flood water drainage



MARKETS



COMMERCIAL



INDUSTRY



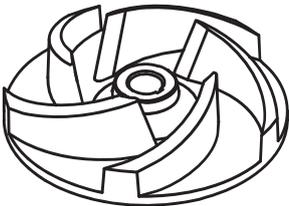
CONSTRUCTION



MINING

SUBMERSIBLE PUMPS FOR CLEAR AND TURBID WATER DRAINAGE

Submersible electric pumps suitable for draining clear and turbid water. Suitable for use on construction sites and for pumping liquids, including abrasive ones.



00150305 04/2023

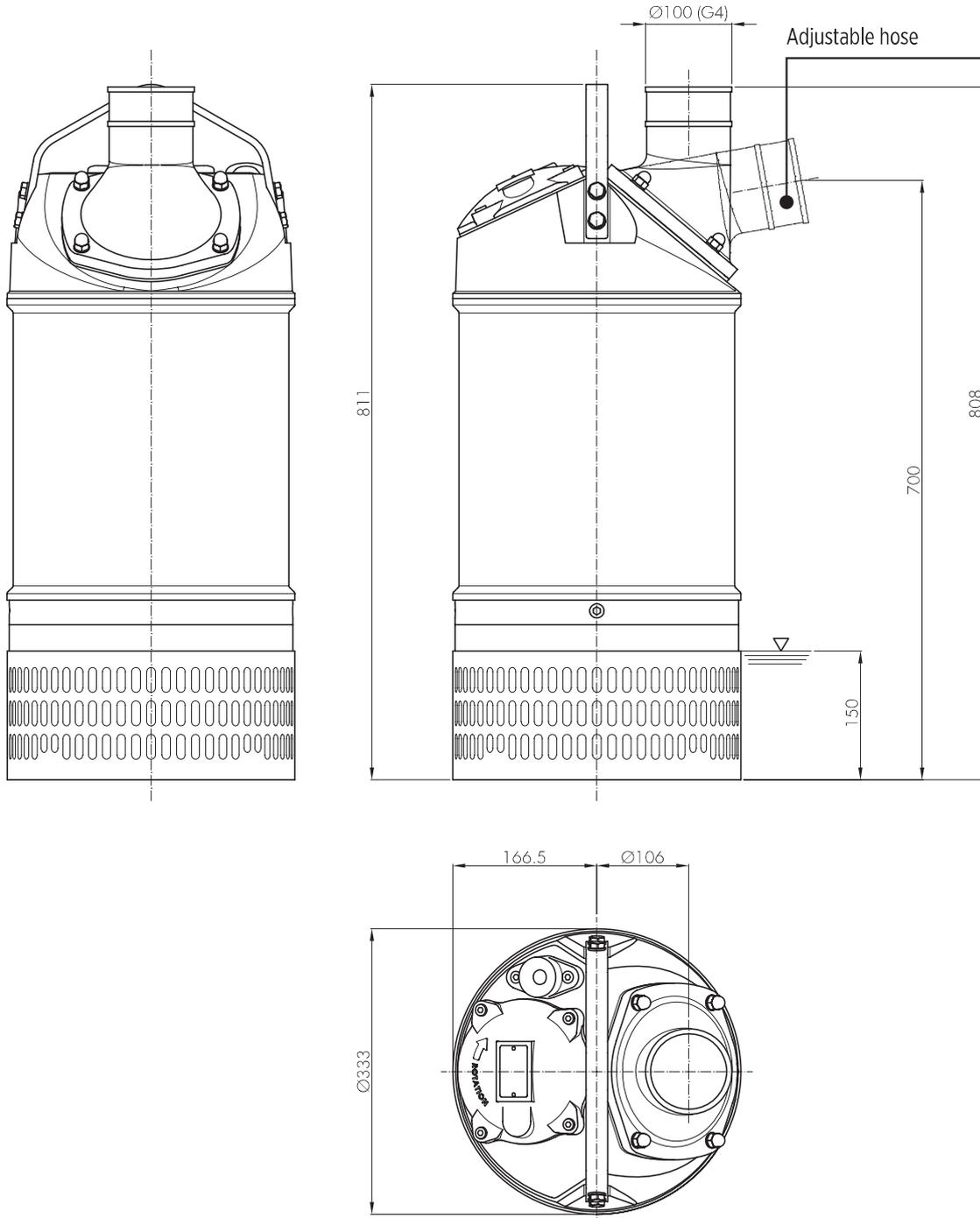
OPEN IMPELLER

GENERAL FEATURES

		Materials/Constr.design
Open impeller		High chrome cast iron
External casing		Stainless steel AISI304
Pump body		Cast iron EN GJL 200 with rubber coating
Cover		Cast iron EN GJL250
Filter		Stainless steel AISI304
Wear plate		Cast iron EN GJL 250 with rubber coating
Mechanical seal	motor side	Graphite/Alumina
	pump side	Silicon carbide (SiC/SiC)
Motor shaft		Stainless steel AISI431
Power cable	Type	20 m S1RN8-F type
	Three-phase 100FDP-52-5,5T, 100FDP-52-6,5T	4G2,5+3x1mm ²
	Three-phase 100FDP-52-8,1T	4G4+3x1mm ²
		Motor
Constr.design		asynchronous squirrel cage-type in dry chamber
Type		2 poles; 50 Hz
Insulation class		F
Protection degree		IP68
Voltage	Three-phase	400V ±10%
		Limits of use
Maximum liquid temperature		+ 40°C
pH of pumped liquid		6 - 10
Liquid density		1,1 kg/dm ³
Maximum immersion depth:		15 m
Min. immersion depth for continuous service		150 mm
Free passage		10 mm
Max. number of starting/hour		15
		Construction options

- 60 Hz version
- Different voltages
- Inner control of the thermal probes in the winding, control sequence and lack of phase (on request)

DIMENSIONAL DRAWINGS



00130302_04/2023

Pump model	Packaging	
	Dimensions [mm]	Weight [kg]
100FDP-52-5,5T-LH	475x370x985	128
100FDP-52-5,5T-HH	475x370x985	128
100FDP-52-6,5T-LH	475x370x985	133
100FDP-52-6,5T-HH	475x370x985	133
100FDP-52-8,1T-LH	475x370x985	138
100FDP-52-8,1T-HH	475x370x985	138

TECHNICAL DATA

Pump model	Motor absorbed power P ₁	Rated power P ₂		Voltage [V]	Rated current [A]	Phase	Power cable		float switch	Running capacitor [µf]	Delivery port	Weight [kg]
	[kW]	[kW]	[HP]				length [m]	Type				
100FDP-52-5,5T-LH	6	5,5	7,5	400	11	3 ~	20	4G2,5+3x1	-	-	Ø100	125
100FDP-52-5,5T-HH	6	5,5	7,5	400	11	3 ~	20	4G2,5+3x1	-	-	Ø100	125
100FDP-52-6,5T-LH	7,2	6,5	8,8	400	13	3 ~	20	4G2,5+3x1	-	-	Ø100	130
100FDP-52-6,5T-HH	7,2	6,5	8,8	400	13	3 ~	20	4G2,5+3x1	-	-	Ø100	130
100FDP-52-8,1T-LH	9	8,1	11	400	16	3 ~	20	4G4+3x1	-	-	Ø100	135
100FDP-52-8,1T-HH	9	8,1	11	400	15	3 ~	20	4G4+3x1	-	-	Ø100	135

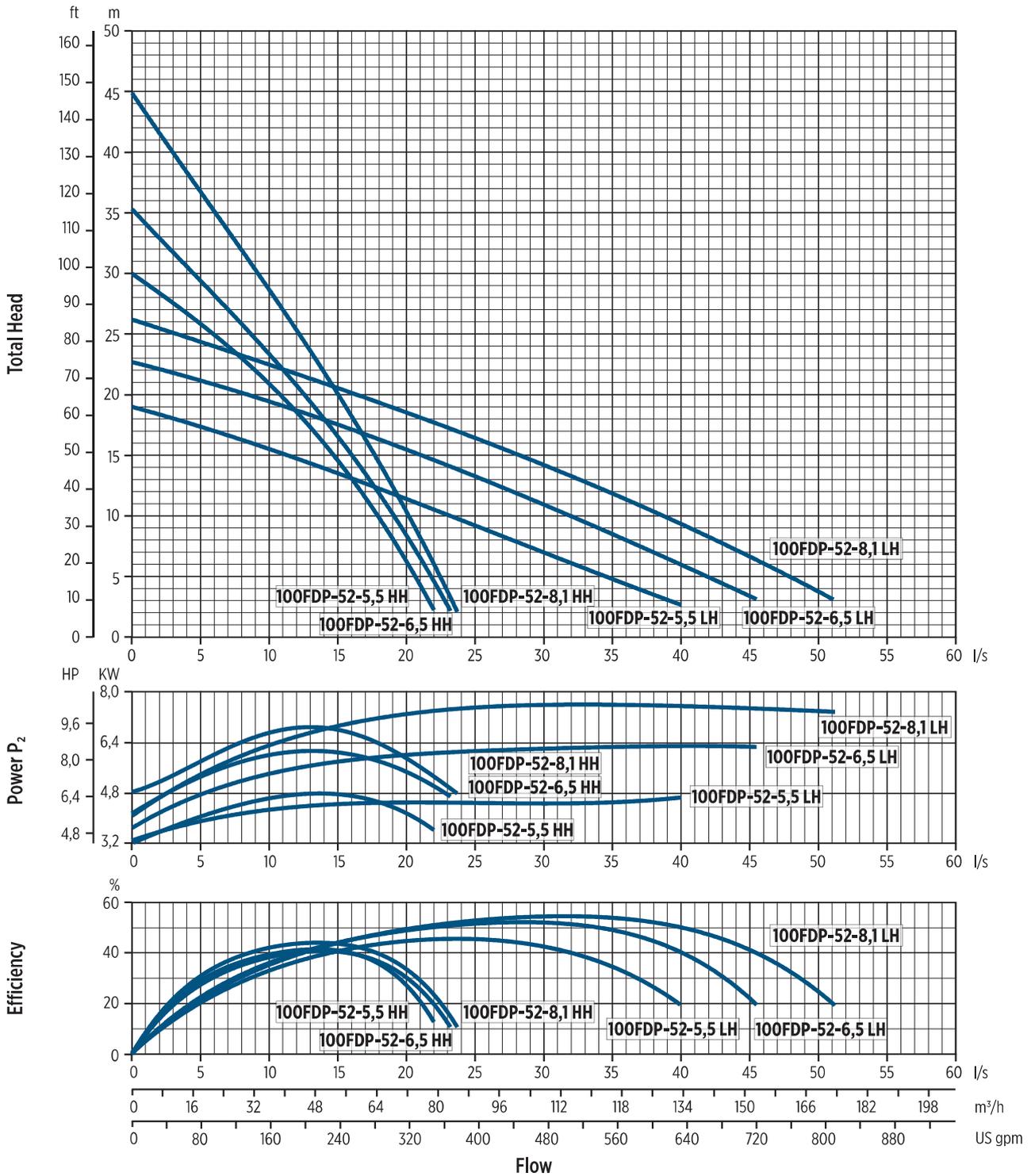
"-" = not available

• = available

HYDRAULIC PERFORMANCE AT 50 HZ

Pump model	Phase	Q = Delivery											
		l/sec 0	2,5	5	10	15	20	25	30	35	40	45	50
		m ³ /h 0	9	18	36	54	72	90	100,8	108	144	162	180
		US gpm 0	39,6	79,2	158,5	237,7	317	396,2	443,8	475,5	634	713,3	792,5
		H = Total meters head of water column [m]											
100FDP-52-5,5 LH	3 ~	18,9		17,5	15,7	13,4	11,3	9,1	7	5,1	2,5		
100FDP-52-5,5 HH	3 ~	30	27,9	26	20,8	14,6	6,3						
100FDP-52-6,5 LH	3 ~	22,4	0	21,4	20	17,6	15,1	12,7	10,9	8,8	6,6	3	
100FDP-52-6,5 HH	3 ~	35,3	32,3	29,5	23,2	16,7	8,3						
100FDP-52-8,1 LH	3 ~	25,9		24,6	22,9	20,7	18,3	15,9	14,1	12,1	9,7	6,8	3
100FDP-52-8,1 HH	3 ~	45	40,7	36,6	28,8	20,2	10,1						

PERFORMANCE CURVES AT 50 HZ



0012012 04/2023

The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

100/150 FDP-LH/HH SERIES 50 HZ

FEATURES & BENEFITS

APPLICATIONS



Drainage and dewatering



Rainwater Recovery



Construction site drainage and dewatering



Mining, Quarrying drainage and dewatering



Emergency flood water drainage

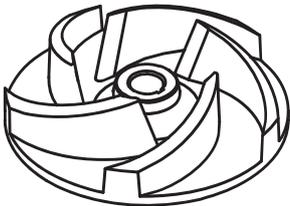


MARKETS



SUBMERSIBLE PUMPS FOR CLEAR AND TURBID WATER DRAINAGE

Submersible electric pumps suitable for draining clear and turbid water. Suitable for use on construction sites and for pumping liquids, including abrasive ones.



00150305 04/2023

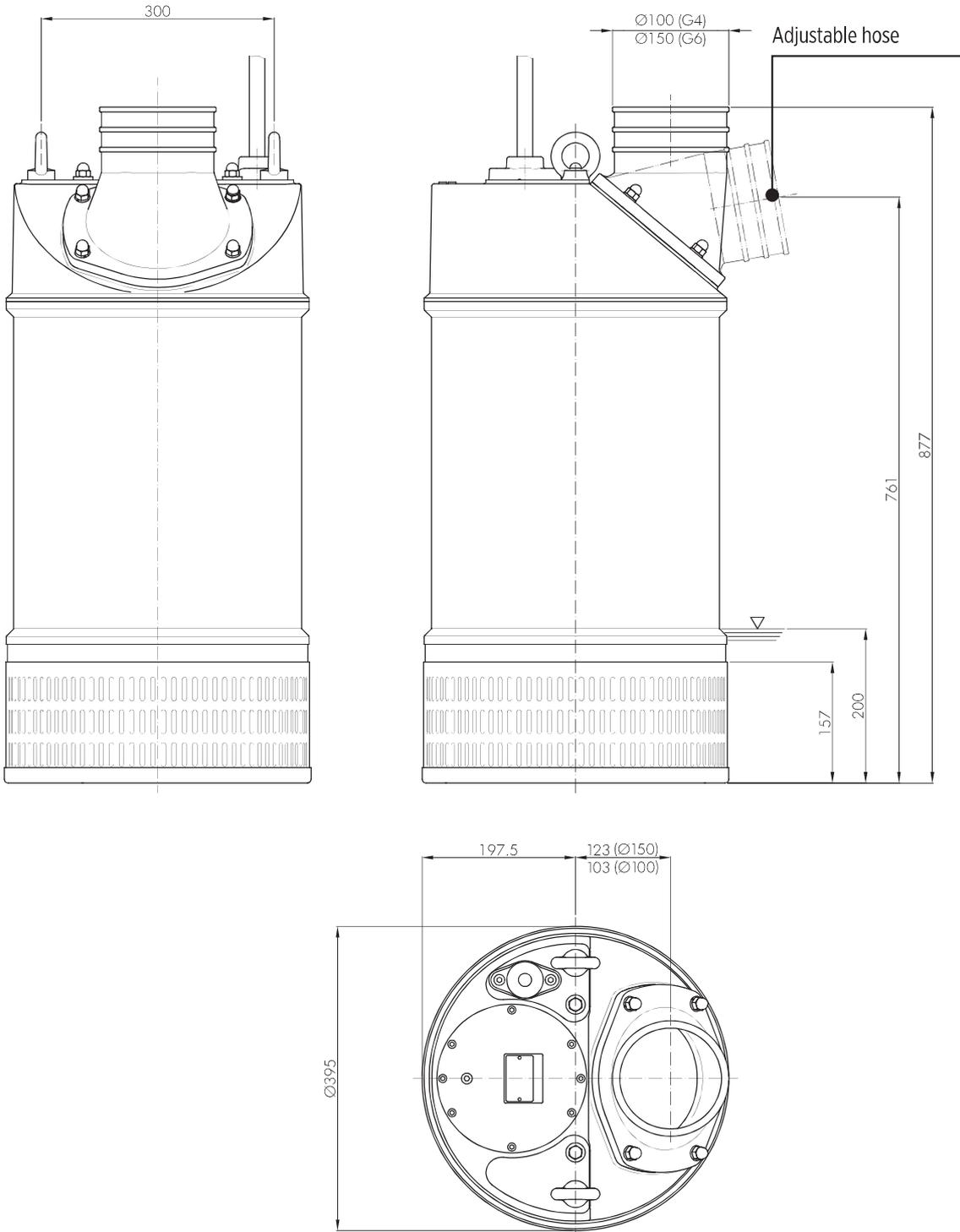
OPEN IMPELLER

GENERAL FEATURES

		Materials/Constr.design
Open impeller		High chrome cast iron
External casing		Stainless steel AISI304
Pump body		Cast iron EN GJL 200 with rubber coating
Cover		Cast iron EN GJL250
Filter		Stainless steel AISI304
Wear plate		Cast iron EN GJL 250 with rubber coating
Mechanical seal	motor side	Graphite/Alumina
	pump side	Silicon carbide (SiC/SiC)
Motor shaft		Stainless steel AISI431
Power cable		20 m 7G4+2x1,5mm ² , 07RN-F type
		Motor
Constr.design		asynchronous squirrel cage-type in dry chamber
Type		2 poles; 50 Hz
Insulation class		F
Protection degree		IP68
Voltage	Three-phase	400V ±10%
		Limits of use
Maximum liquid temperature		+ 40°C
pH of pumped liquid		6 - 10
Liquid density		1,1 kg/dm ³
Maximum immersion depth:		15 m
Min. immersion depth for continuous service		200 mm
Free passage		6 mm
Max. number of starting/hour		10
		Construction options

- 60 Hz version
- Different voltages
- Inner control of the thermal probes in the winding, control sequence and lack of phase (on request)

DIMENSIONAL DRAWINGS



0030303 04/2023

Packaging		
Pump model	Dimensions [mm]	Weight [kg]
150FDP-52-11T-LH	620x420x1030	196
100FDP-52-11T-HH	620x420x1030	196
150FDP-52-15T-LH	620x420x1030	208
100FDP-52-15T-HH	620x420x1030	208

TECHNICAL DATA

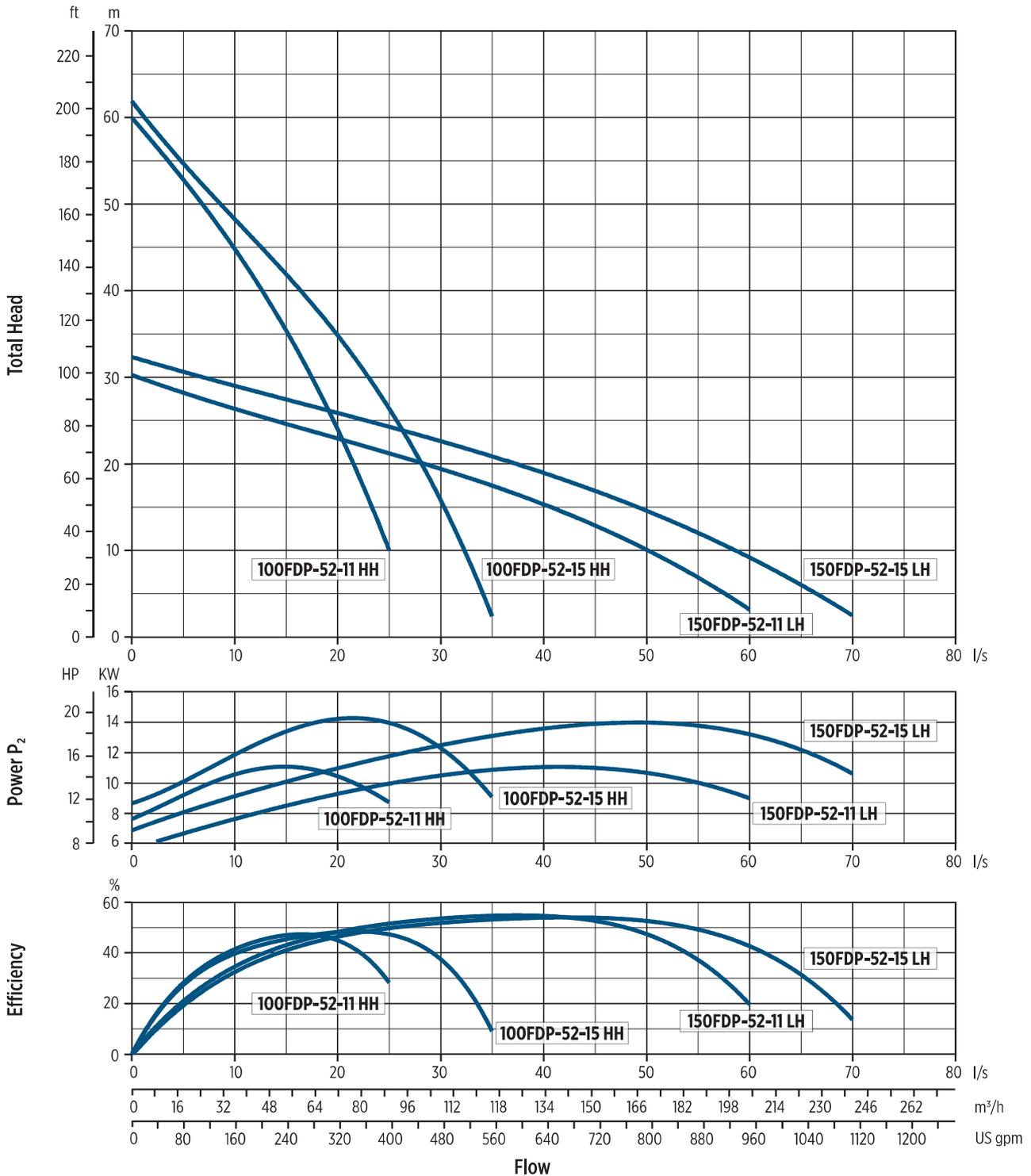
Pump model	Motor absorbed power P ₁	Rated power P ₂		Voltage	Rated current	Phase	Power cable		float switch	Running capacitor	Delivery port	Weight [kg]
	[kW]	[kW]	[HP]	[V]	[A]		length [m]	Type		[µf]		
150FDP-52-11T-LH	13	11	14,9	400	22	3 ~	20	7G4+2x1,5	-	-	Ø150	192
100FDP-52-11T-HH	13	11	14,9	400	22	3 ~	20	7G4+2x1,5	-	-	Ø100	192
150FDP-52-15T-LH	17	15	20,4	400	28	3 ~	20	7G4+2x1,5	-	-	Ø150	204
100FDP-52-15T-HH	17	15	20,4	400	28	3 ~	20	7G4+2x1,5	-	-	Ø100	204

“-” = not available
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HYDRAULIC PERFORMANCE AT 50 HZ

Pump model	Phase	Q = Delivery														
		l/sec 0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
		m ³ /h 0	18	36	54	72	90	100,8	108	144	162	180	198	216	234	252
		US gpm 0	79,2	158,5	237,7	317	396,2	443,8	475,5	634	713,3	792,5	871,8	951	1.030,3	1.109,5
		H = Total meters head of water column [m]														
150FDP-52-11 LH	3 ~	30	28,3	26,8	24,8	22,8	21	19,3	17,2	15,3	13	10,7	6,7	3		
100FDP-52-11 HH	3 ~	60	52,8	44,9	35,3	24	10									
150FDP-52-15 LH	3 ~	32	30,6	29,3	27,8	26,4	24,3	22,3	20,3	18,5	16,6	14,8	12,4	10,1	6	2
100FDP-52-15 HH	3 ~	62	54,6	48,4	42	35,1	25,8	16,4	2,3							

PERFORMANCE CURVES AT 50 HZ



0012015-04-2023

150FDP SERIES 50 HZ

FEATURES & BENEFITS

APPLICATIONS



Drainage and dewatering



Rainwater Recovery



Construction site drainage and dewatering



Mining, Quarrying drainage and dewatering



Emergency flood water drainage



MARKETS



COMMERCIAL



INDUSTRY



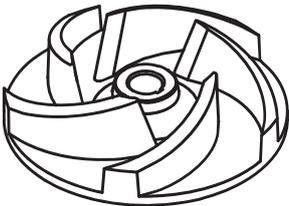
CONSTRUCTION



MINING

SUBMERSIBLE PUMPS FOR CLEAR AND TURBID WATER DRAINAGE

Submersible electric pumps suitable for draining clear and turbid water. Suitable for use on construction sites and for pumping liquids, including abrasive ones.



00150305 04/2023

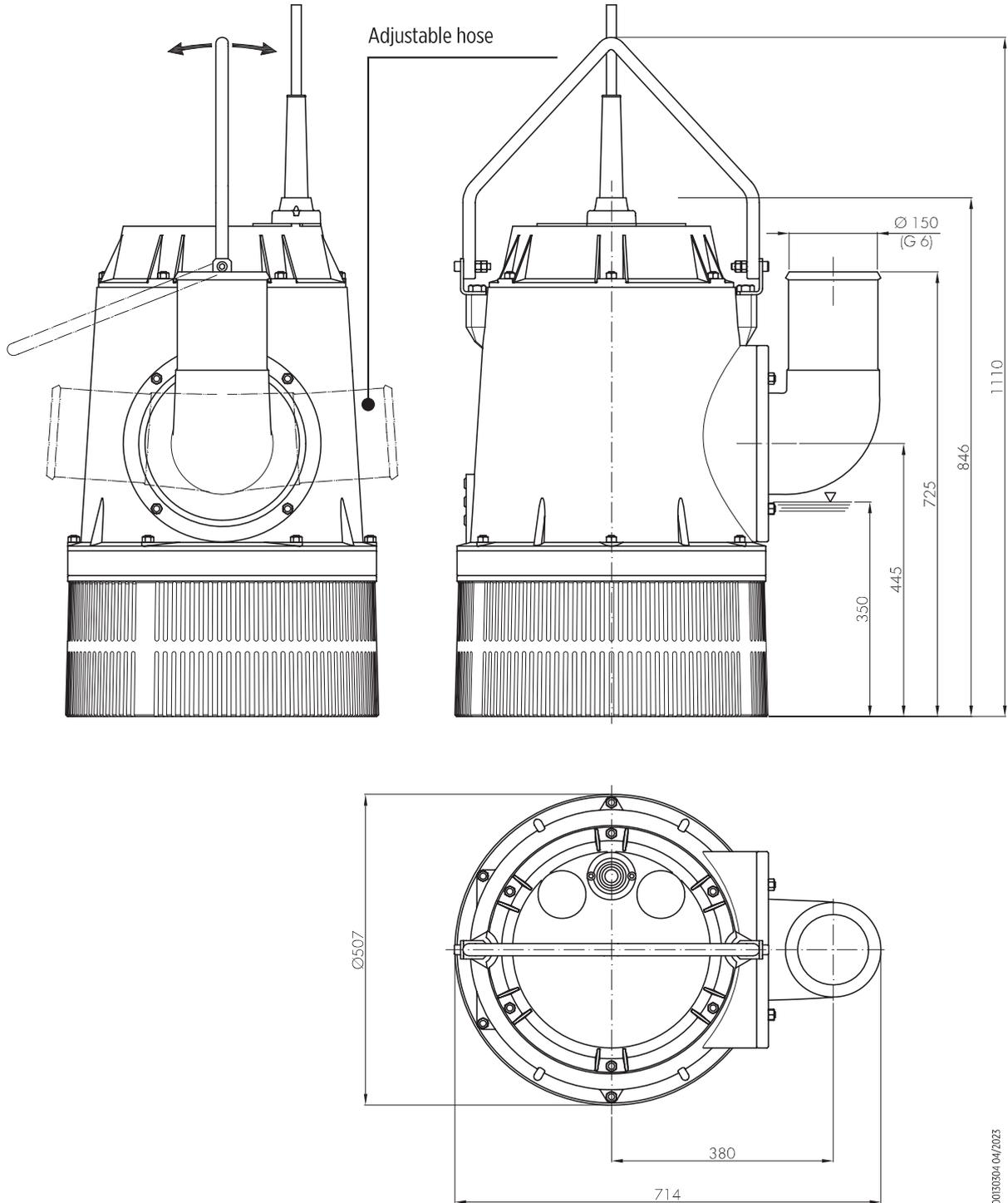
OPEN IMPELLER

GENERAL FEATURES

		Materials/Constr.design
Open impeller		Stainless steel AISI304
External casing		Aluminium alloy
Pump body		Aluminium alloy with rubber coating
Cover		Aluminium alloy
Filter		Aluminium alloy
Wear plate		Stainless steel AISI304 with rubber coating
Mechanical seal	motor side	Graphite/Alumina
	pump side	Silicon carbide (SiC/SiC)
Motor shaft		Stainless steel AISI431
Power cable		20 m 7G4+2x1,5mm ² , 07RN-F type
		Motor
Constr.design		asynchronous squirrel cage-type in dry chamber
Type		2 poles; 50 Hz
Insulation class		F
Protection degree		IP68
Voltage	Three-phase	400V ±10%
		Limits of use
Maximum liquid temperature		+ 40°C
pH of pumped liquid		5 - 8
Liquid density		1,1 kg/dm ³
Maximum immersion depth:		15 m
Min. immersion depth for continuous service		350 mm
Free passage		7 mm
Max. number of starting/hour		10
		Construction options

- 60 Hz version
- Different voltages

DIMENSIONAL DRAWINGS



Packaging		
Pump model	Dimensions [mm]	Weight [kg]
150FDP-52-22T	650x800x1200	233

TECHNICAL DATA

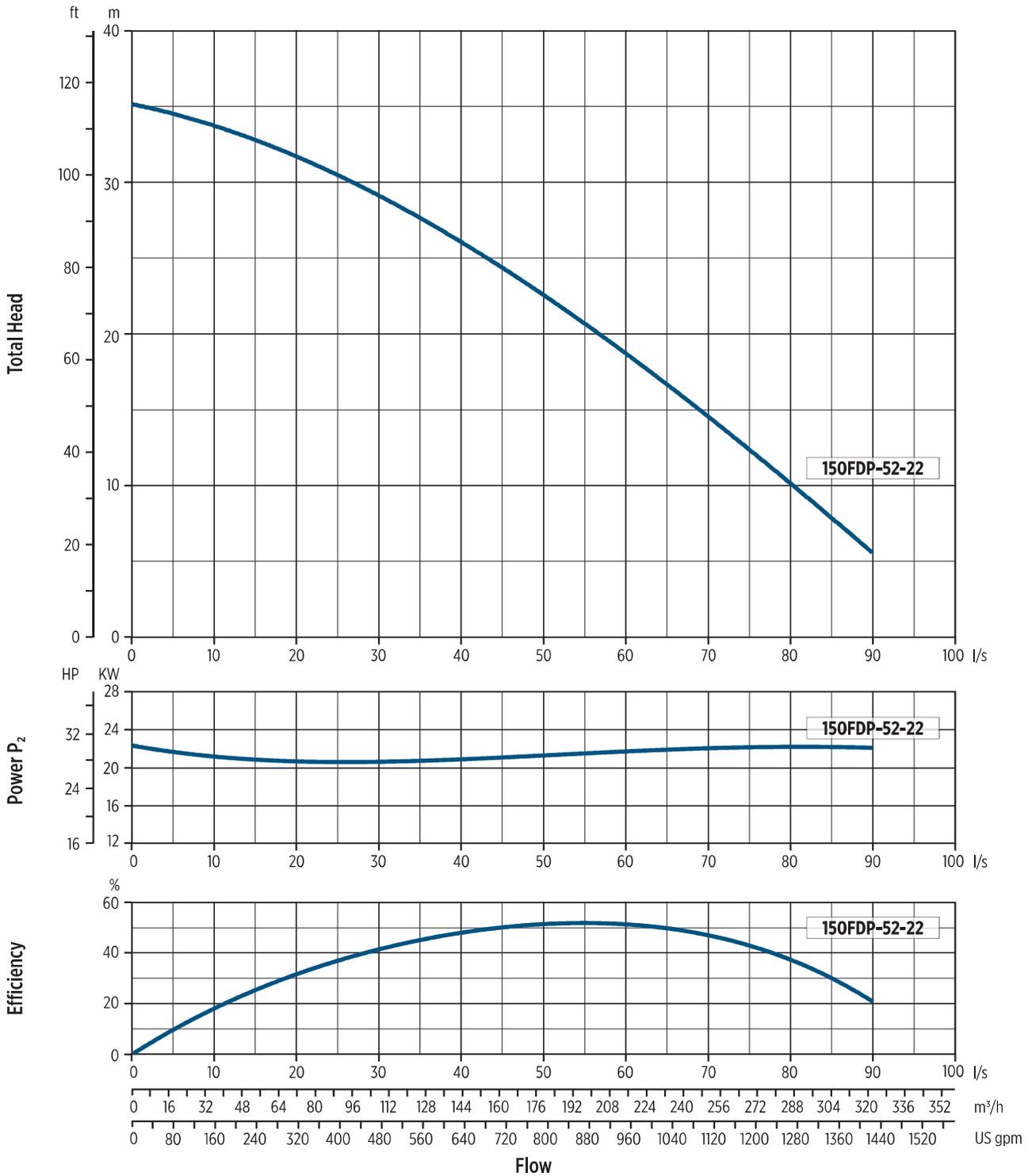
Pump model	Motor absorbed power P ₁	Rated power P ₂		Voltage	Rated current	Phase	Power cable		Float switch	Running capacitor	Delivery port	Weight [kg]
	[kW]	[kW]	[HP]	[V]	[A]		length [m]	Type		[μf]		
150FDP-52-22T	28	22	30	400	46	3 ~	20	7G4+2x1,5	-	-	Ø150	183

“-” = not available
 • = available

HYDRAULIC PERFORMANCE AT 50 HZ

Pump model	Phase	Q = Delivery											
		l/sec 0	20	25	30	35	40	45	50	60	70	80	90
		m ³ /h 0	72	90	100,8	108	144	162	180	216	252	288	324
		US gpm 0	317	396,2	443,8	475,5	634	713,3	792,5	951	1,109,5	1,268	1,426,5
		H = Total meters head of water column [m]											
150FDP-52-22	3 ~	35	32	31	29	28	26	24	22	18,5	15	11	5

PERFORMANCE CURVES AT 50 HZ



002014-04/2023

The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B



CATALOG REVISION CHANGE NOTICE

Rev. No.	Changes	Page
01	150FDP Performance curves graphic scale correction	48
01	40FDR and 50FDR General Features motor voltage single-phase correction	6, 12
02	70/80 FDP serie General Features table correction	30



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10000015089 EN REV.03_10-2024



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