Equipment and solutions

WFD Submersible Pump - Vortex and Double Channel

Product technical datasheet

Submersible pumps for wastewater and drainage, available in Vortex and Double Channel versions.

FT-P031 · Rev. 1



The WFD series comprises submersible pumps designed for wastewater pumping and drainage. With Vortex impeller options (for water with suspended solids) and Double Channel (for higher efficiency with lighter loads), these pumps offer versatility and mechanical strength for.

Applications

- Drainage of wastewater and sewage.
- Domestic, agricultural, and industrial use.
- Emptying of pits and settling tanks.
- Pumping of water with suspended solids (Vortex Models).

Operating conditions

- Confirm the installation conditions, power supply and duty point before commissioning.

Engineering note	Confirm the installation conditions, power supply and duty point before commissioning.
Complementary equipment	Contact JOVAL for compatible accessories and equipment.
Resources and support	Pump selection guide · JOVAL technical support
Contact	+351 253 490 740 · joval@joval.pt

Technical specifications

Type
Vortex / Bicanal

Max Temperature
40 °C

Protection
IP 68

Insulation
Class B

Electric cable length
10 m

Impeller
Vortex / Bicanal (Cast Iron)

Discharge
1" 1/2 - 2" - 3"

Applications

- Drainage of wastewater and sewage.
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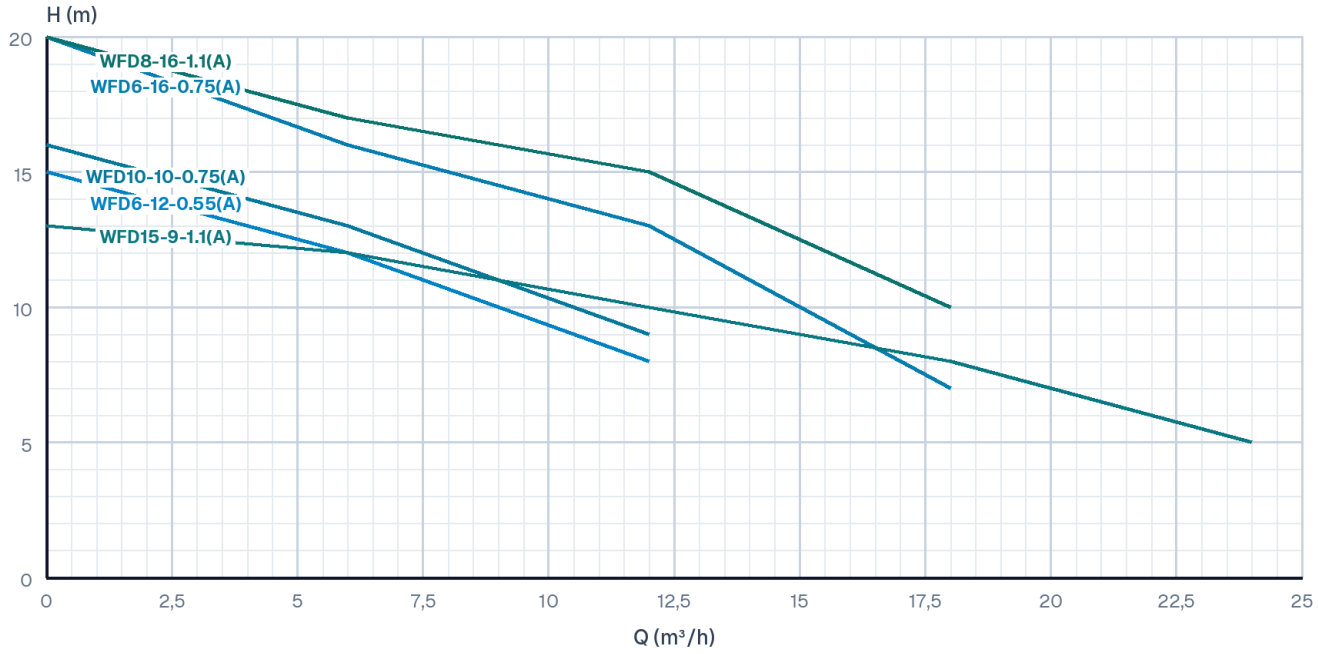
Operating conditions

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Engineering note Confirm the installation conditions, power supply and duty point before commissioning.

Performance · Vortex · 1/2

Performance curves



Electrical data

Rated values at 400 V

Model	kW	HP	A (400 V)
WFD6-12-0.55(A)	0,55	0,75	-
WFD6-16-0.75(A)	0,75	1	-
WFD10-10-0.75(A)	0,75	1	-

Model	kW	HP	A (400 V)
WFD15-9-1.1(A)	1,1	1,5	-
WFD8-16-1.1(A)	1,1	1,5	-

Performance · Vortex · 1/2

Hydraulic performance

Total head H in metres

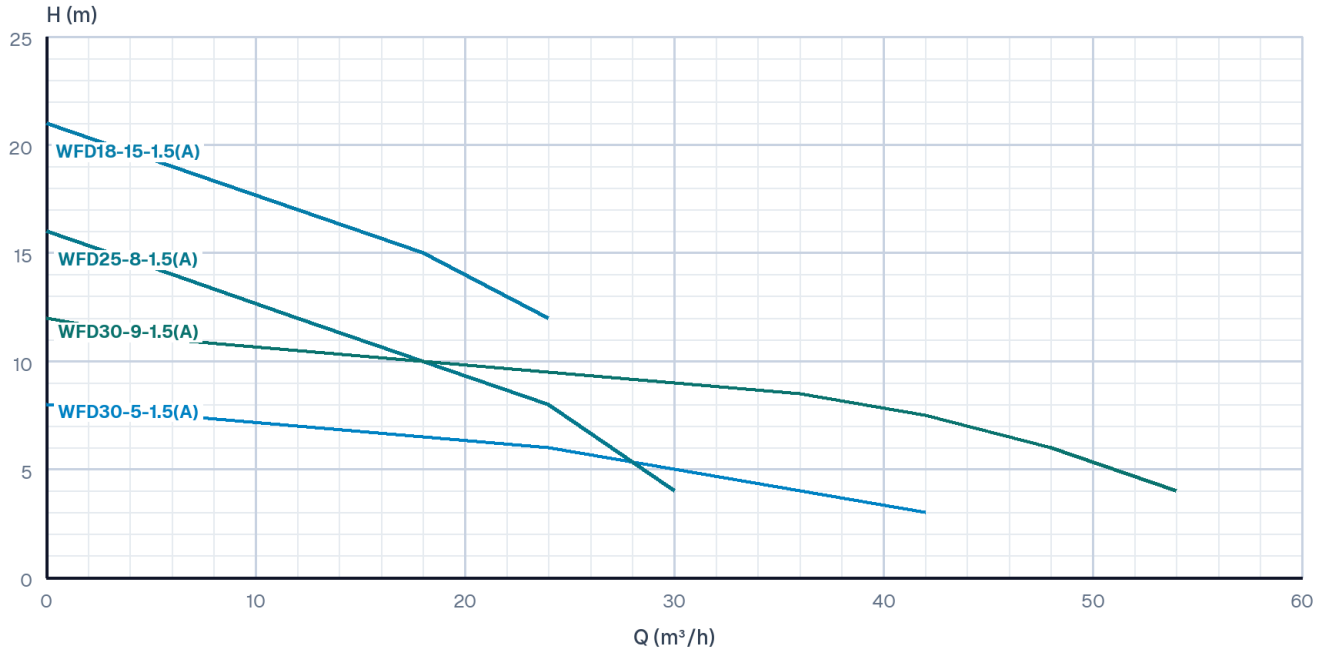
Q · Flow (m³/h)

Model	0	6	12	18	24
WFD6-12-0.55(A)	15	12	8	—	—
WFD6-16-0.75(A)	20	16	13	7	—
WFD10-10-0.75(A)	16	13	9	—	—
WFD15-9-1.1(A)	13	12	10	8	5
WFD8-16-1.1(A)	20	17	15	10	—

Select the duty point at the intersection of Q and H.

Performance · Vortex · 2/2

Performance curves



Electrical data

Rated values at 400 V

Model	kW	HP	A (400 V)
WFD30-5-1.5(A)	1,1	1,5	-
WFD18-15-1.5(A)	1,5	2	-
WFD25-8-1.5(A)	1,5	2	-
WFD30-9-1.5(A)	1,5	2	-

Performance · Vortex · 2/2

Hydraulic performance

Total head H in metres

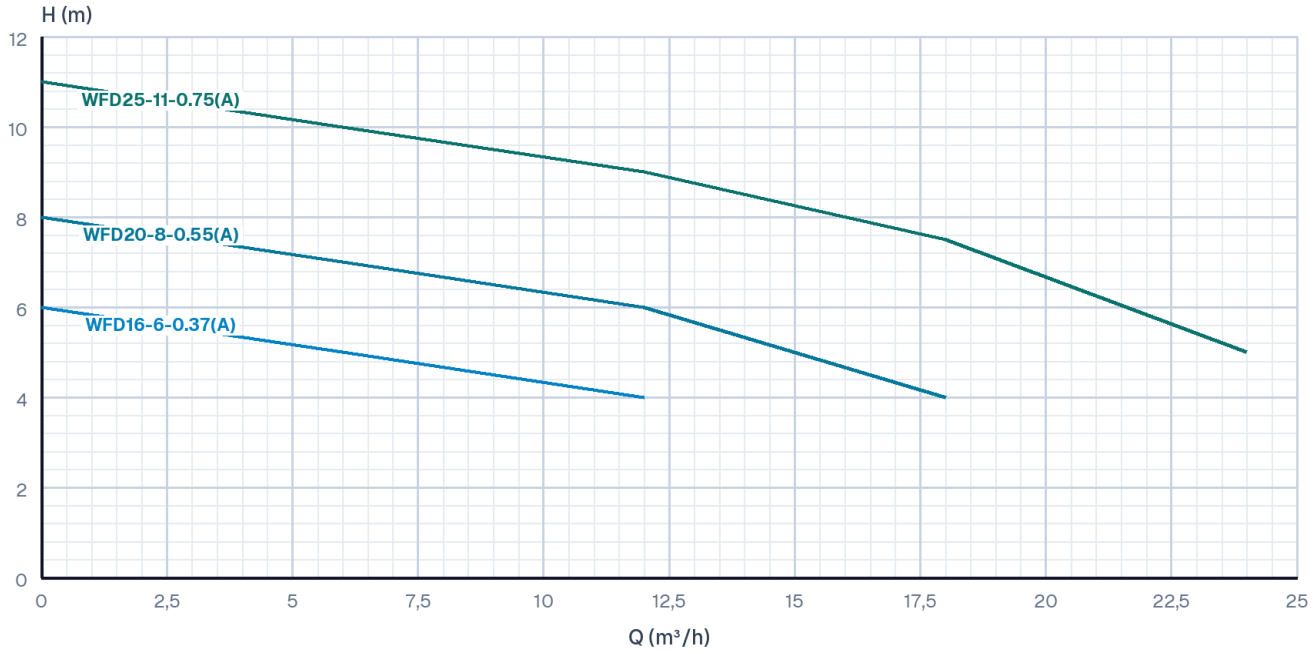
Q · Flow (m³/h)

Model	0	6	12	18	24	30	36	42	48	54
WFD30-5-1.5(A)	8	7,5	7	6,5	6	5	4	3	—	—
WFD18-15-1.5(A)	21	19	17	15	12	—	—	—	—	—
WFD25-8-1.5(A)	16	14	12	10	8	4	—	—	—	—
WFD30-9-1.5(A)	12	11	10,5	10	9,5	9	8,5	7,5	6	4

Select the duty point at the intersection of Q and H.

Performance · Double Channel

Performance curves



Electrical data

Rated values at 400 V

Model	kW	HP	A (400 V)
WFD16-6-0.37(A)	0,37	0,5	-
WFD20-8-0.55(A)	0,55	0,75	-
WFD25-11-0.75(A)	0,75	1	-

Performance · Double Channel

Hydraulic performance

Total head H in metres

Q · Flow (m³/h)

Model	0	6	12	18	24
WFD16-6-0.37(A)	6	5	4	—	—
WFD20-8-0.55(A)	8	7	6	4	—
WFD25-11-0.75(A)	11	10	9	7,5	5

Select the duty point at the intersection of Q and H.

Additional information

- quadros-electricos-quadro-aguas-residuais