

JUNIORFLUX



Special features:

- ▶ Motor and pump tightly connected
- ▶ Two pump types available - with mechanical seal or sealless
- ▶ With mains connection
- ▶ Internal ventilated commutator motor
- ▶ Motor double insulated - protection class II
- ▶ Two step speed adjustment
- ▶ With overload cut-out switch
- ▶ 230 Volt version VDE-GS approved
- ▶ Ergonomic design handle - one-handed operation
- ▶ Holding hook for medium hose

Commutator motor FEM 3070

Motor type	Storage of motor	Speed control	Allowed ambient temperature in operation	Allowed ambient temperature on storage	Max. viscosity [cPs]	Protection class	Weight	Protection class
internally ventilated commutator motor	ball-bearing	2-steps	-4 - 104°F (-20 - 40°C)	-4 - 140°F (-20 - 60°C)	250	IP24	3.31 lbs (1.5 kg)	II

Nominal voltage [V]	Power frequency [Hz]	Rated power [W]	Type of plug according to norm:	Cable length [m]
240	50	230	Europe: CEE 7/XVII	16 ft (5 m)
230	50-60	230	Europe: CEE 7/XVII Switzerland: Typ 11	16 ft (5 m)
120	60	230	North America: NEMA 1-15P	16 ft (5 m)
110	50-60	230	Europe: CEE 7/XVII	16 ft (5 m)
100	50-60	230	Japan: JISC 8308, 8358 7A	16 ft (5 m)

Pumpe F 310/F 314

Type	F 310 PP- 25/19	F 310 PP- 32/25	F 314 PP-25/19	F 314 PP-32/25	F 314 PVDF-25/19	F 314 S-28/25
Outer tube material	polypropylene				polyvinylidene fluoride	stainless steel
Type of seal	with mechanical seal			sealless		
Immersion length	12"/20"/27"/39" (300/500/700/ 1000 mm)		20", 27", 39" (500/700/1000 mm)			
Outer Ø [mm]	25	32	25	32	25	28
Connection thread	G1 A*					G ¾ A
Materials in contact with the medium	PP, ETFE, Oxidkeramik/ PTFE/carbon, FKM, Hastelloy C		PP, ETFE, PTFE/ carbon, Hastelloy C		PVDF, ETFE, PTFE/ carbon, Hastelloy C	S (316 Ti), ETFE, PTFE/ carbon
Viscosity max. [cPs]	250					
Temperature of medium max.	113°F (45°C)				140°F (60°C)	
Weight including motor at a length of 300/500/700/1000 mm	3.5/4.0/4.4/4.6 lbs (1.6/1.8/2.0/2.1 kg)	- /4.0/4.4/4.6 lbs (- /1.8/2.0/2.1 kg)	- /4.0/4.4/4.6 lbs (- /1.8/2.0/2.1 kg)	- /4.0/4.4/4.6 lbs (- /1.8/2.0/2.1 kg)	- /4.4/4.6/4.8/5.3 lbs (- /2.0/2.2/2.4 kg)	- /6.2/6.6/7.1 lbs (- /2.8/3.0/3.2 kg)

*Hose connections 1/2" (DN13) and 3/4" (DN19) included

Performance data

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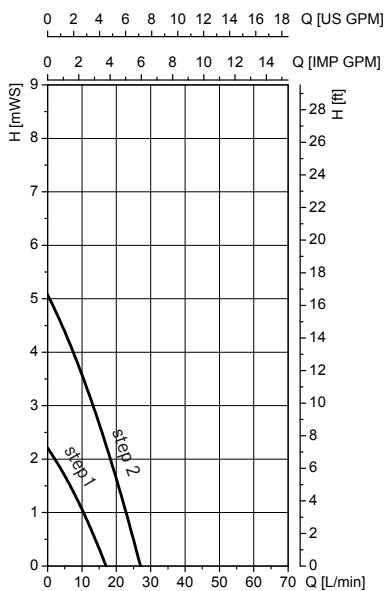
Performance data

Speed	Delivery rate Q max.* at:		Delivery head H max.** at:	
	step 1	step 2	step 1	step 2
F 310 PP-25/19	4.5 GPM (17 LPM)	7.1 GPM (27 LPM)	7.2 ft (2.2 m)	16.4 ft (5 m)
F 310 PP-32/25	7.9 GPM (30 LPM)	12.6 GPM (48 LPM)	9.8 ft (3 m)	22.6 ft (6.9 m)
F 314 PP-25/19 F 314 PVDF-25/19	7.1 GPM (27 LPM)	10.5 GPM (40 LPM)	9.2 ft (2.8 m)	17.4 ft (5.3 m)
F 314 PP-32/25 F 314 S-28/25	11.6 GPM (44 LPM)	14.8 GPM (56 LPM)	15.4 ft (4.7 m)	27.9 ft (8.5 m)

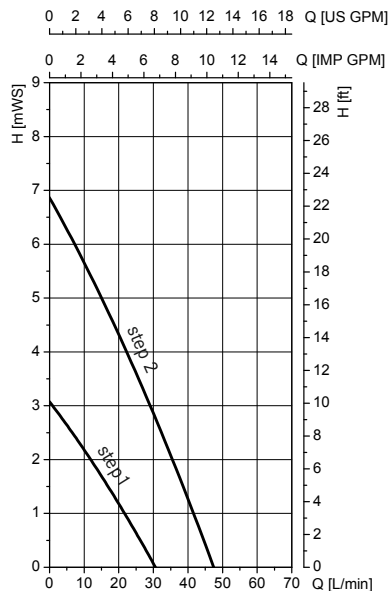
Performance charts*

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F 310 PP-25/19

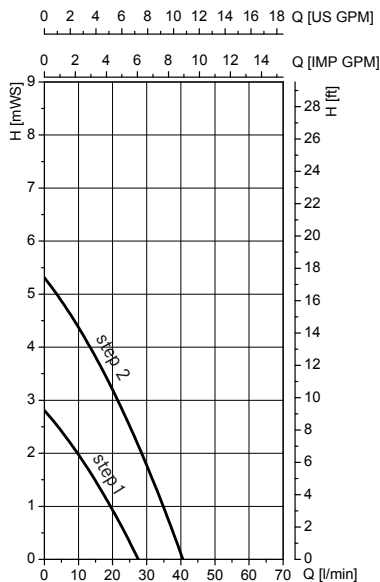


F 310 PP-32/25



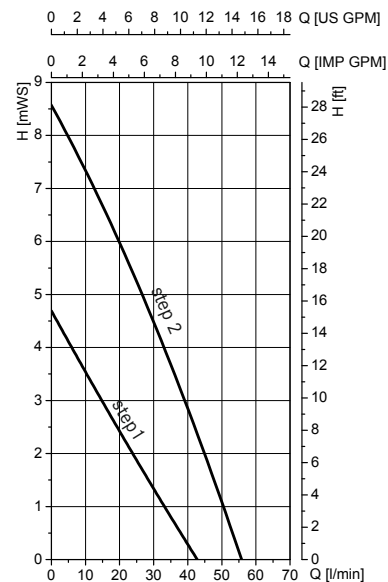
F 314 PP-25/19

F 314 PVDF-25/19



F 314 PP-32/25

F 314 S-28/25



* Determined with water at 68°F (20°C), measured values ± 10 % maximum flow rate with open discharge outlet

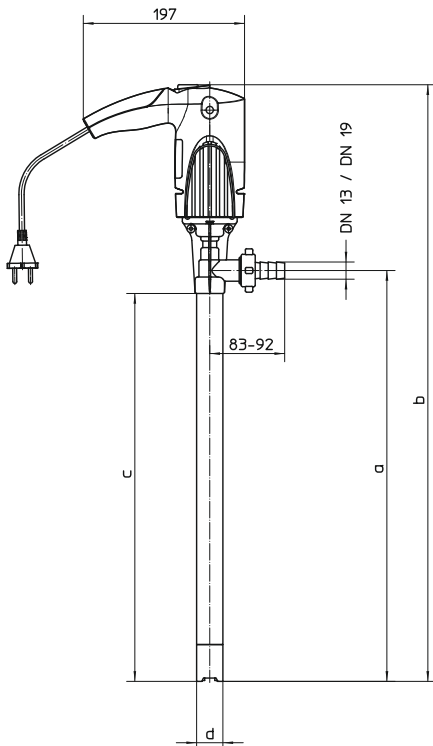
** Measured with water at 68°F (20°C)

Dimensions

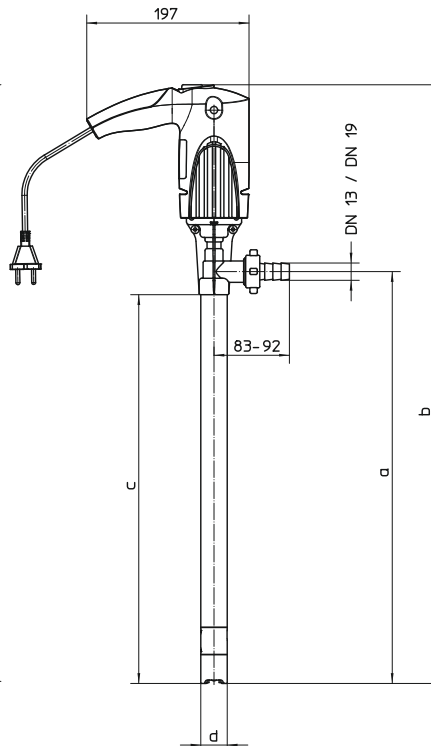
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Dimensions [mm]

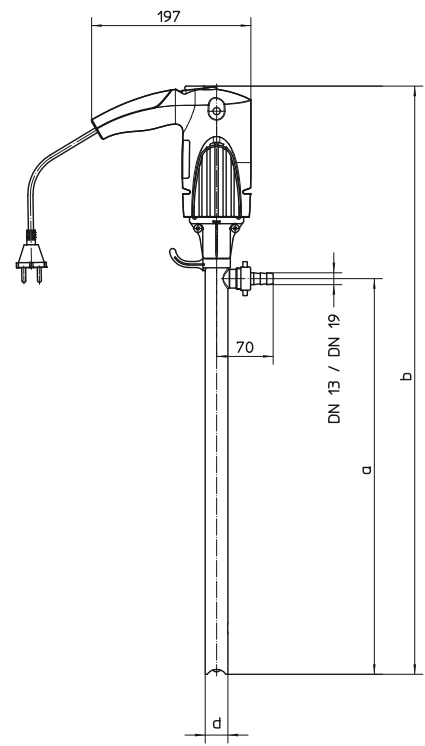
JUNIORFLUX F 310 PP



JUNIORFLUX F 314 PP/PVDF



JUNIORFLUX F 314 S



Immersion length	a	b	c	d	
39" (1000 mm)	1002	1229	974	Ø 25	Ø 32
27" (700 mm)	702	929	674		
20" (500 mm)	502	729	474		

Dimensions in mm

Immersion length	a	b	c	d	
39" (1000 mm)	1000	1227	972	Ø 25	Ø 32*
27" (700 mm)	700	927	672		
20" (500 mm)	500	727	472		

Dimensions in mm

* Version Ø 32 mm available in PP

Immersion length	a	b	c	d
39" (1000 mm)	989	1192	-	Ø 28
27" (700 mm)	689	892	-	
20" (500 mm)	489	692	-	

Dimensions in mm

Pump kit	F 310 PP-32/25	F 314 PP-25/19	F 314 PP-32/25	F 314 PP/S-32/25 AdBlue® version
Motor	FEM 3070, 230 V, 50-60 Hz, 230 W			
Cable length	16 ft (5 m)			
Type o plug according to norm:	Europe: CEE 7/XVII			
Outer tube material	polypropylene (PP)			
Seal type	with mechanical seal	sealless		
Shaft material	Hastelloy C			Stainless steel
Immersion length [mm]	39" (1000 mm)	27"/39" (700/1000 mm)	39" (1000 mm)	39" (1000 mm)
Outer Ø [mm]	32	25	32	32
Hose connector	3/4" (DN19)	1/2" (DN13)	3/4" (DN19)	3/4" (DN19)
Hose material	PVC			
Hose length [m]	4.9 ft (1.5 m)			6.5 ft (2 m)
Hose Ø	3/4" (DN19)	1/2" (DN13)	3/4" (DN19)	3/4" (DN19)
Material hand nozzle/seal	PP/FKM			
Connection hand nozzle	3/4" (DN19)	1/2" (DN13)	3/4" (DN19)	3/4" (DN19)
Hand nozzle outlet Ø [mm]	22			19
Weight [kg]	5.3 lbs (2.4 kg)			



JUNIORFLUX pump kit F 314 PP-25/19



JUNIORFLUX pump kit AdBlue®

Part numbers

JUNIORFLUX pump with fixed commutator motor FEM 3070

Pump		Motor					
Pump type	Immersion length (in/mm)	240 V, 50 Hz	230 V, 50-60 Hz	230 V, 50-60 Hz (Swiss version)	120 V, 60 Hz	110 V, 50-60 Hz	100 V, 50-60 Hz
F 310 PP-25/19	12"/300	310 41 403	310 41 003	on request	310 41 103	310 41 203	310 41 303
	20"/500	310 41 405	310 41 005	310 41 505	310 41 105	310 41 205	310 41 305
	27"/700	310 41 407	310 41 007	310 41 507	310 41 107	310 41 207	310 41 307
	39"/1000	310 41 410	310 41 010	310 41 510	310 41 110	310 41 210	310 41 310
F 310 PP-32/25	20"/500	310 42 405	310 42 005	on request	310 42 105	310 42 205	on request
	27"/700	310 42 407	310 42 007	310 42 507	310 42 107	310 42 207	
	39"/1000	310 42 410	310 42 010	310 42 510	310 42 110	310 42 210	
F 314 PP-25/19	20"/500	314 41 405	314 41 005	314 41 505	314 41 105	314 41 205	314 41 305
	27"/700	314 41 407	314 41 007	314 41 507	314 41 107	314 41 207	314 41 307
	39"/1000	314 41 410	314 41 010	314 41 510	314 41 110	314 41 210	314 41 310
F 314 PP-32/25	20"/500	314 42 405	314 42 005	314 42 505	314 42 105	314 42 205	on request
	27"/700	314 42 407	314 42 007	314 42 507	314 42 107	314 42 207	
	39"/1000	314 42 410	314 42 010	314 42 510	314 42 110	314 42 210	
F 314 PVDF-25/19	20"/500	314 61 405	314 61 005	314 61 505	on request	314 61 205	314 61 305
	27"/700	314 61 407	314 61 007	314 61 507		314 61 207	314 61 307
	39"/1000	314 61 410	314 61 010	314 61 510		314 61 210	314 61 310
F 314 S-28/25	20"/500	314 21 405	314 21 005	on request	314 21 105	314 21 205	314 21 305
	27"/700	314 21 407	314 21 007	314 21 507	314 21 107	314 21 207	314 21 307
	39"/1000	314 21 310	314 21 010	314 21 510	314 21 110	314 21 210	314 21 310

JUNIORFLUX pump kits with motor 230 V, 50-60 Hz, 230 W

Pump type	Immersion length	Outer Ø	Part no.
F 310	39" (1000 mm)	32 mm	310 43 010
F 314	27" (700 mm)	25 mm	314 43 007
F 314	39" (1000 mm)	25 mm	314 43 010
F 314	39" (1000 mm)	32 mm	314 44 010
F 314 AdBlue®	39" (1000 mm)	32 mm	314 44 ZV2

Other accessories:

We offer the appropriate accessories for the JUNIORFLUX, such as: hand nozzles, hoses, compression glands or liquid meters. See our brochure for accessories and the price list for the precise specifications.

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