

### stationary version

The pumps in the PVXC series are complete with a support foot, movable slide, tube guides and hydraulic couplings, for connection to the sewer network.



#### RANGE OF PERFORMANCE

Flow rate up to 1200 l/min (72 m<sup>3</sup>/h)  
Head up to 16 m

#### LIMITS OF USE

Depth of use up to 10 m  
Liquid temperature up to + 40°C  
Passage of solid bodies max Ø 50 mm for PVXC 15-20-30/50  
Passage of solid bodies max Ø 70 mm for PVXC 15-20-30/70  
For continuous duty: minimum immersion 430 mm

#### EXECUTION AND SAFETY STANDARDS

EN 60034-1  
IEC 34-1  
CEI 2-3



#### USES AND INSTALLATIONS

THE ELECTROPUMPS IN THE PVXC SERIES, MADE OF EXCEPTIONALLY STURDY HEAVY-GAUGE CAST IRON, RESISTANT TO ABRASION AND LONG-LASTING, ARE EQUIPPED WITH A VORTEX TYPE IMPELLER, SO THEY ARE SUITABLE FOR DRAINING WASTE WATERS, WATERS MIXED WITH MUD, LIQUIDS CONTAINING AIR OR GAS, AS WELL AS STIRRED SLUDGE AND ROTTEN SLUDGE. THEY ARE RECOMMENDED FOR FIXED INSTALLATION IN SEWERS, TUNNELS, WELLS, UNDERGROUND CAR PARKS, IN SPECIAL TRAPS.

**GUARANTEE 2 YEARS** according to our general terms of sale.

#### CONSTRUCTION CHARACTERISTICS

- PUMP BODY, MOTOR CASING AND CONNECTING FOOT: cast iron.
- IMPELLER: cast iron.
- BASE: stainless steel AISI 304.
- MOTOR SHAFT: stainless steel EN 10088-3 - 1.4057.
- DOUBLE MECHANICAL SEAL: carburundum - widia - NBR pump side and sealing ring on motor side (with interposed oil barrier chamber for lubricating and cooling the seal surfaces in case of lack of water).
- MOTOR: submersible asynchronous, 2 pole, for continuous duty.  
PVXCm: single-phase 220÷240 V - 50 Hz with thermal overload protector built into the winding up to 1.5 kW.  
- In the 2.2 kW single-phase versions the built-in motor protector is to be suitably connected to the coil of the contactor, three-phase 380÷415 V - 50 Hz.  
PVXC: three-phase 380÷415 V - 50 Hz.  
- In the three-phase versions, three thermal protectors, in series, are positioned in the winding, to be suitably connected to the coil of the contactor.
- INSULATION: class F. ● PROTECTION: IP 68.

#### THE ELECTROPUMPS ARE COMPLETE WITH:

Connecting foot  
Threaded counterflange on delivery  
Supports for guide tubes

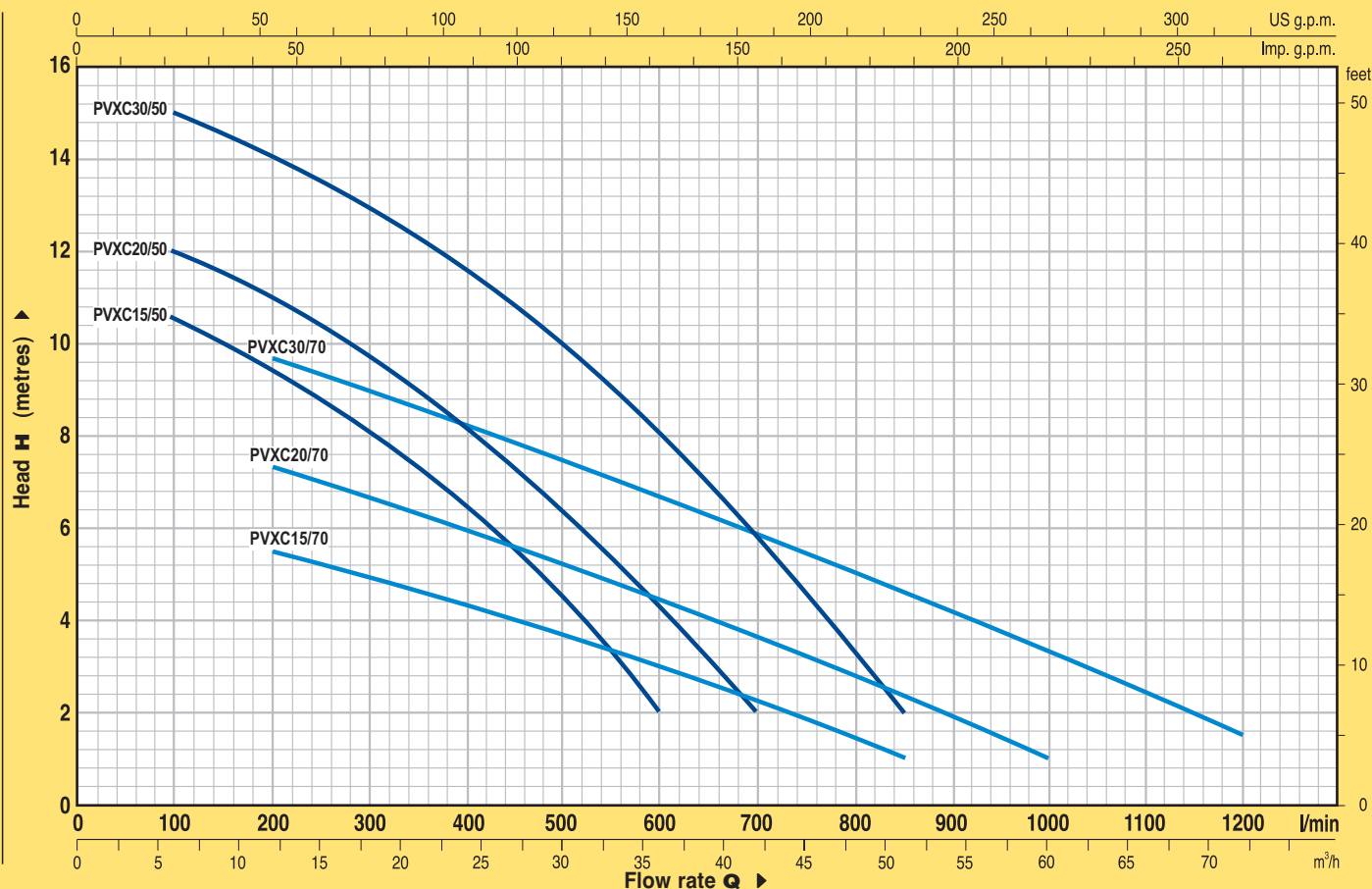
**PVXCm** (single-phase) Flow switch.  
Neoprene power cable "H07 RN-F"  
length **10 metres with** Schuko plug.  
For powers from 1.1 to 1.5 kW, electric panel with condenser and motor protector with manual reset  
For power 2.2 kW electric panel type QES 300 MONO.

**PVXC** (three-phase) Neoprene power cable "H07 RN-F"  
length **10 metres**.

#### EXECUTIONS ON REQUEST

- ⇒ electric panel for three-phase electropumps
- ⇒ dual voltage : 230/400 V or 400/690 V
- ⇒ single-phase electropumps without float switch
- ⇒ other voltages or frequency 60 Hz

**CURVES AND PERFORMANCE DATA AT n= 2900 1/min**

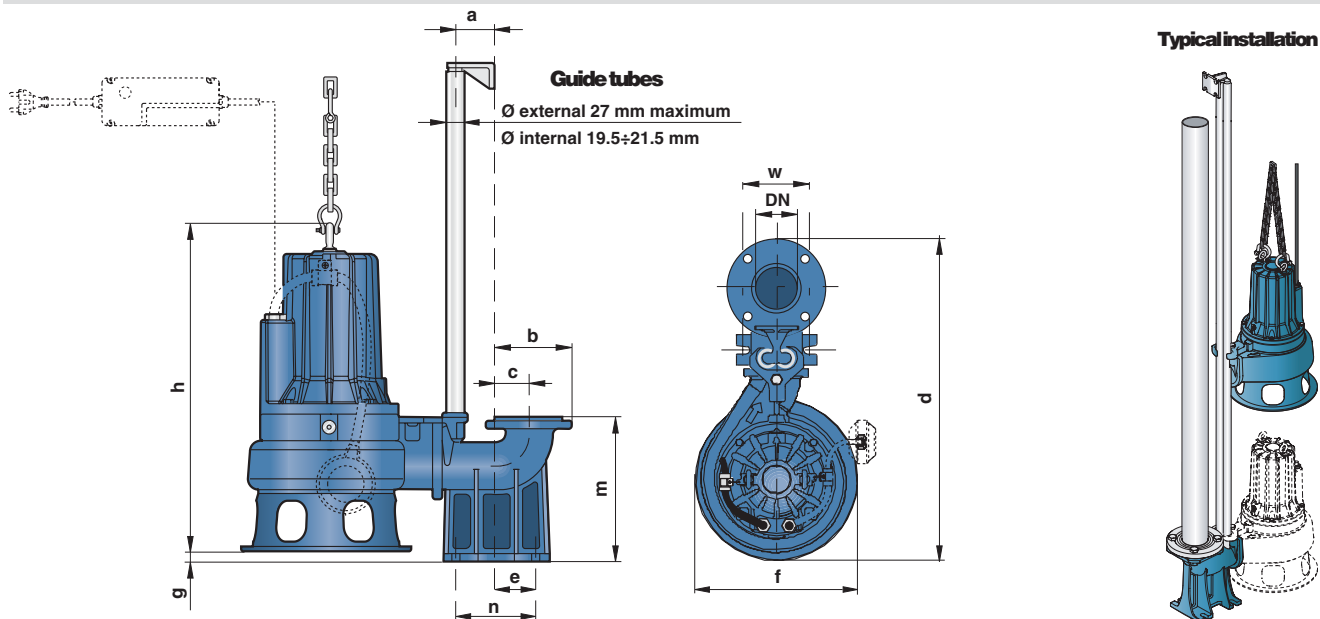


TYPE		POWER		Q	H metres																	
Single-phase	Three-phase	KW	HP		m³/h	0	6	12	18	21	24	27	30	36	42	48	51	54	60	66	72	
				l/min	0	100	200	300	350	400	450	500	600	700	800	850	900	1000	1100	1200		
PVXCm 15/50	PVXC 15/50	1.1	1.5	H metres	11.5	10.5	9.5	8.2	7.2	6.5	5.6	4.5	2									
PVXCm 20/50	PVXC 20/50	1.5	2		13	12	11	9.5	9	8	7.2	6.5	4.5	2								
PVXCm 30/50	PVXC 30/50	2.2	3		16	15	14	13	12.3	11.5	10.8	10	8	5.9	3.3	2						
PVXCm 15/70	PVXC 15/70	1.1	1.5		6.5	—	5.5	5	4.7	4.4	4	3.7	3	2.2	1.5	1						
PVXCm 20/70	PVXC 20/70	1.5	2		8.5	—	7.4	6.7	6.3	6	5.6	5.2	4.5	3.6	2.8	2.4	2	1				
PVXCm 30/70	PVXC 30/70	2.2	3		11	—	9.7	9	8.6	8.2	7.8	7.5	6.7	5.8	5	4.6	4.2	3.3	2.5	1.5		

Q = Flow rate H = Total manometric head

Tolerance of the performance curves according to EN ISO 9906 App. A.

**DIMENSIONS AND WEIGHTS**



TYPE		INLET DN	passage of solid bodies	DIMENSIONS mm									kg*			
Single-phase	Three-phase			a	b	c	d	e	f	g	h	m	n	w	1~	3~
PVXCm 15/50	PVXC 15/50	2 1/2"	Ø 50 mm	60	116	51	501	62	270	10	387	200	120	72	42.0	40.0
PVXCm 20/50	PVXC 20/50										397/387				43.8	42.3
PVXCm 30/50	PVXC 30/50										405				49.7	43.8
PVXCm 15/70	PVXC 15/70	3"	Ø 70 mm	150	70	585	95	300	10	405	256	150	92	53.0	50.7	
PVXCm 20/70	PVXC 20/70									415/405				54.9	53.0	
PVXCm 30/70	PVXC 30/70									415/405				61.1	55.2	

(\*weight with counterflange)