

Pump parts in contact with the pumped liquid are made of stainless steel EN DIN 1.4301 Pump bases and heads are of either cast iron/stainless steel (CRI) or cast iron EN-GJS-500-7 (CR), depending on pump type; other vital parts are made of stainless steel EN DIN 1.4301

The pumps are equipped with a service-friendly cartridge shaft seal, HQQE (SiC/SiC/EPDM)

- * Two stainless steel manifolds to EN DIN 1.4571
- Stainless steel base frame to EN DIN 1.4301 up to CR 90; above CR 90 the pumps are placed on a galvanized I-Beam frame
- * One non-return valve (POM) and two isolating valves for each pump
- * Non-return valves are certified according to DVGW, isolating valves according to DIN and DVGW
- * Adapter with isolating valve for connection of diaphragm tank
- * Pressure gauge and pressure transmitter (analog output 4-20 mA)
- * Control MPC in a steel cabinet, IP54, including main switch, all required fuses, motor protection, switching equipment and microprocessor-controlled CU 352.

Dry-running protection and diaphragm tank are available according to the list of accessories.

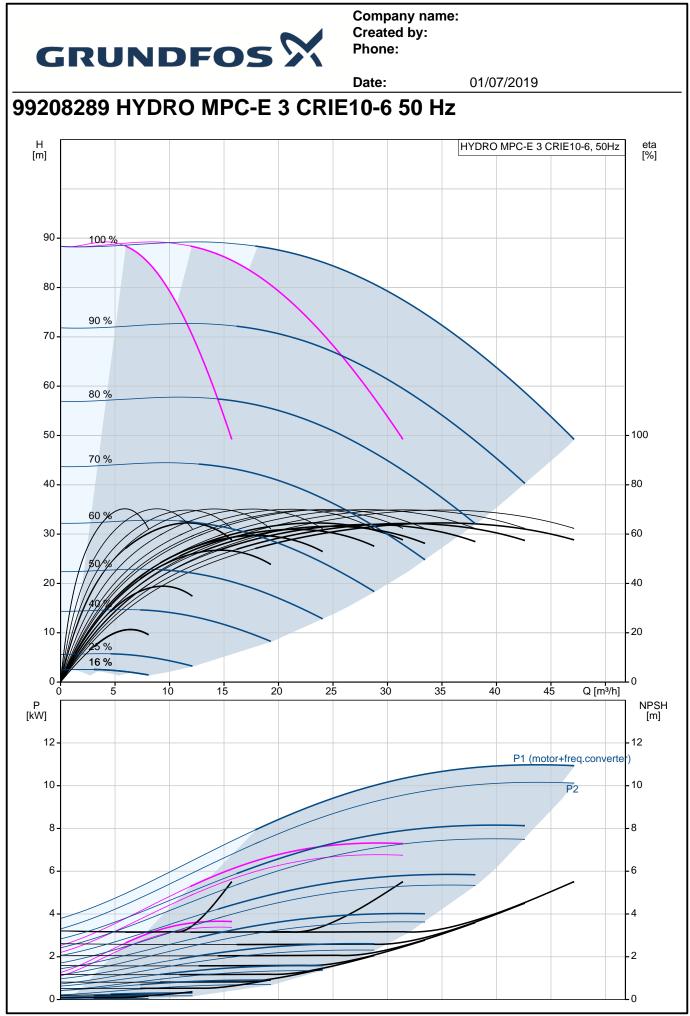
Pump operation is controlled by Control MPC with the following functions:

Intelligent multipump controller, CU 352. Constant-pressure control through continuously variable adjustment of the speed of each individual pump. PID controller with adjustable PI parameters (Kp + Ti). Constant pressure at setpoint, independent of inlet pressure. Soft pressure build-up (To prevent water hammer during startup). On/off operation at low flow. Automatic cascade control of pumps for optimum efficiency. Selection of min. time between start/stop, automatic pump changeover and pump priority. Automatic pump test function to prevent idle pumps from seizing up. Possibility of standby pump allocation. Possibility of backup sensor (redundant primary sensor).



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			Date:	01/07/2019	
	Description				
Τ		Secondary sensor	(Possible to switch t	o another sensor/setpoint).	
		Multi-sensor (up to 6 sensors to influence the setpoint).			
		Manual operation.			
		Possibility of external setpoint influence.			
		Log function.			
		Setpoint ramp. Possibility of digital remote-control functions:			
		System on/off. Max., min. or user-	defined duty		
		Up to 6 alternative	-		
			outputs can be config	gured individually.	
			monitoring functions		
			imum limits of currer		
		Inlet pressure.			
		Non-return valve m	nonitoring.		
		Motor protection.			
			s monitored for malf		
			previous 24 warning	s/alarms.	
		Display and indicat Colour screen disp			
				ations and red indicator light for fault	
		indications		-	
		Potential-free changeover contacts for operation and fault.			
		Grundfos bus com	munication.		
	Flow media:	Water			
	Allowed liquid temp.:	5 °C 60 °C			
	System pressure max.:	16 bar			
	Flow (Plant): Flow without one stand-by pump	47 m ³ /h	26 m ³ /b		
	Mains suply:	380-415 V	30 111-/11		
	Nom. current of plant:	23,1A-415V			
	Nominal power:	4 kW			
	Net weight:	259 kg			
	Maximum head: 89 m Maximum flow: 47 m³/h				

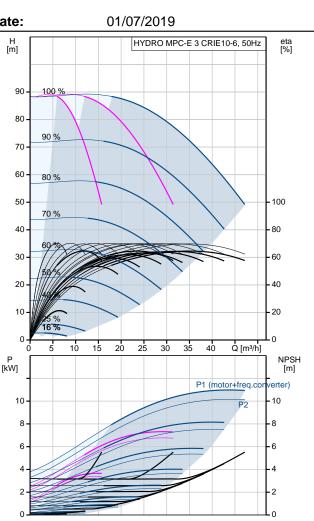


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Company name: Created by: Phone:

		Date:	01/07/2
Description	Value	H [m]	HY
General information:			
Product name:	HYDRO MPC-E 3 CRIE10-6	-	
Product No:	99208289	90 - 100 %	
EAN number:	5712608713682	-	
Technical:		80 -	\land
Max flow:	47 m³/h	90 %	\rightarrow
Max flow system:	36 m³/h	70-	
Head max:	89 m	60 - 80 %	
Main pump name:	CRIE10-6	60 - 80 %	
Main pump No:	99071463	50 -	
Number of pumps:	3	70 %	
Non-ret. valve:	at discharge side	40 -	
Materials:	3	69 %	x
Manifolds:	EN/DIN 1.4571/ AISI 316 TI	30-	MARCE
Installation:	-	50/0/	
Maximum operating pressure:	16 bar	20 -	~
Manifold inlet:	DN80		$ \rightarrow $
Manifold outlet:	DN80	10-	
Pressure rating:	PN16	0	
Earth connection:	PE	0 5	10 15 20 25
System design:	Α	P [kW]	
Liquid:			
Pumped liquid:	Water	10 -	
Liquid temperature range:	5 60 °C	10	
Selected liquid temperature:	20 °C	8 -	
Density at selected liquid temperature:	998.2 kg/m³	6 -	
Electrical data:		4-	
Power (P2) main pump:	4 kW	2-	
Mains frequency:	50 Hz		
Rated voltage:	3 x 380-415 V	0	
Rated current of system:	23,1A-415V		
Start. method:	electronically		
Enclosure class (IEC 34-5):	IP54		
Radio interference supression:	EMC DIRECTIVE(2014/30/EU)		
Controls:			
Control type:	E		
Tank:			
Diaphragm tank:	Yes		
Others:			
Basis plant:	Υ		
Net weight:	259 kg		
Gross weight:	279 kg		
Product range:	GB		
Config. file no:	98272392		
Config.file Control MPC:	98271947		
Config.file Hydro MPC:	98272020		
Country of origin:	GB		
Custom tariff no.:	84137075		

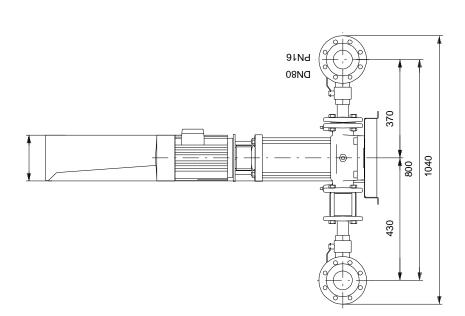


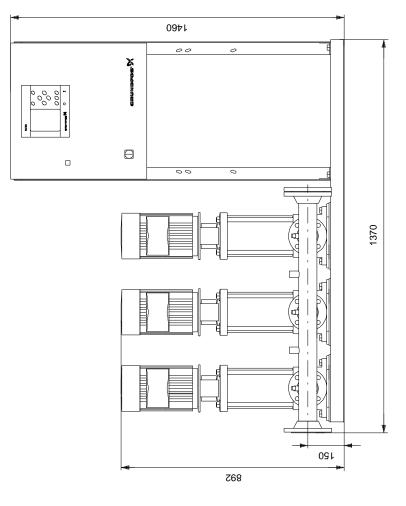


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99208289 HYDRO MPC-E 3 CRIE10-6 50 Hz





Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.

