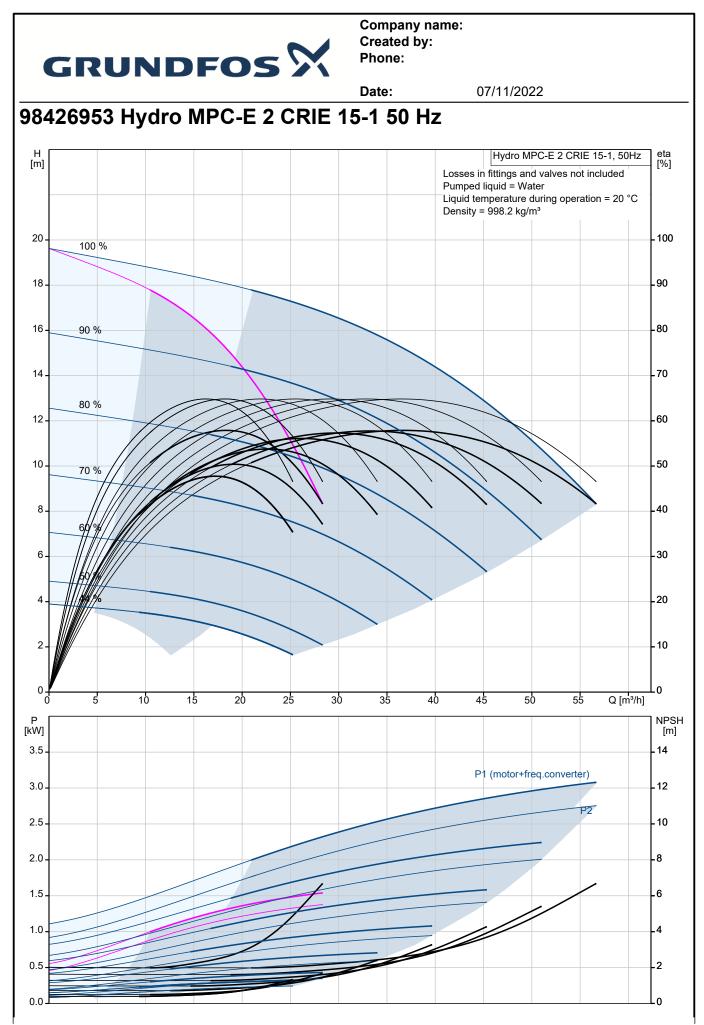


	Date:	07/11/2022				
Description						
Hydro MPC-E 2 CRIE 15-1						
0-						
Note! Product p Product No.: 98426953	icture may differ from a	ctual product				
Product No.: 98426953						
Pressure booster system supplied as compact as	sembly according to	DIN standard 1988/T5.				
All pumps are speed-controlled.						
From 0.37 to 11 kW, the booster system is equipp						
commutated permanent-magnet motors with extre	mely high efficiency					
frequency converter applies to IE5 level in IEC600	34-31.					
From 15 to 22 kW, the booster system is equipped	d with CR, CRE, CR	RI, CRIE pumps with motors with integrated				
frequency control. The total efficiency of the motor IEC60034-31, even though this standard only app	^r including the frequ lies to the motor.	ency converter is better than the IE3 level in				
 Hydro MPC-E maintains a constant pressu The system performance is adapted to the 		us adjustment of the speed of the pumps. Itting in/out the required number of pumps ar				
through parallel control of the pumps in ope	eration.					
* Pump changeover is automatic and depend	ds on load, time and	d fault.				
The system consists of these parts:						
vertical, multistage, centrifugal pumps, type CRIE						
Pump parts in contact with the pumped liquid are Pump bases and heads are of either cast iron/stai	nless steel (CRI) or	cast iron EN-GJS-500-7 (CR), depending or				
pump type; other vital parts are made of stainless						
The pumps are equipped with a service-friendly ca * Two stainless steel manifolds to EN DIN 1.		AQQE (SIC/SIC/EPDM)				
* Stainless steel base frame to EN DIN 1.43	01 up to CR 90; abo	ove CR 90 the pumps are placed on a				
galvanized I-Beam frame * One non-return valve (POM) and two isolat	ting valves for each	pump				
* Non-return valves are certified according to		alves according to DIN and DVGW				
 * Adapter with isolating valve for connection * Pressure gauge and pressure transmitter (a) 		mA)				
* Control MPC in a steel cabinet, IP54, inclue	ding main switch, al	I required fuses, motor protection, switching				
equipment and microprocessor-controlled	CU 352.					
Dry-running protection and diaphragm tank are av	ailable according to	the list of accessories.				
Pump operation is controlled by Control MPC with	the following function	ons:				
	oump controller, CU					
Constant-press each individual	ure control through o	continuously variable adjustment of the spee				
	rith adjustable PI pa	rameters (Kp + Ti).				
Constant press	ure at setpoint, inde	pendent of inlet pressure.				
Soft pressure by On/off operatior		water hammer during startup).				
Automatic casca	ade control of pump	s for optimum efficiency.				
Selection of min	i. time between star	t/stop, automatic pump changeover and pum				

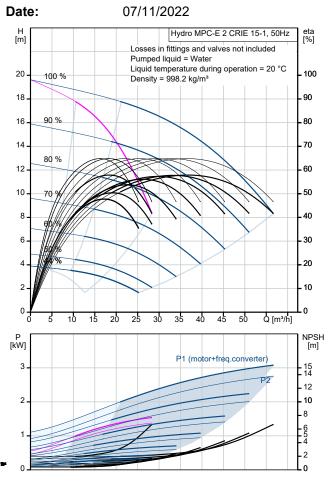


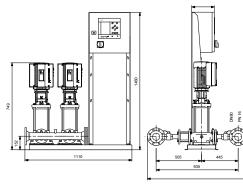
Description			
			ent idle pumps from seizing up.
	Possibility of stand		
			ant primary sensor).
			h to another sensor/setpoint).
	Multi-sensor (up to	6 sensors to influ	ence the setpoint).
	Manual operation.		
	Possibility of exterr	nal setpoint influer	nce.
	Log function.		
	Setpoint ramp.		
	Possibility of digital	l remote-control fu	Inctions:
	System on/off.		
	Max., min. or user-	defined duty.	
	Up to 6 alternative		
			nfigured individually.
	Pump and system		
	Minimum and maxi		
	Inlet pressure.		
	Non-return valve m	nonitoring.	
	Motor protection.	0	
	Sensors and cable	s monitored for m	alfunction.
	Alarm log with the		
	Display and indicat		
	Colour screen disp		
			dications and red indicator light for fault
	indications		
	Potential-free chan	geover contacts f	or operation and fault.
It is possible to add CIM com	Grundfos bus com		
Pumps, piping, cabling comp	munication modules for lete as well as Control M	communicating w	ith Scada/BMS.
Pumps, piping, cabling comp The booster system has beer	munication modules for lete as well as Control M n preset and tested.	communicating w	ith Scada/BMS.
Pumps, piping, cabling compl The booster system has beer There are options to upgrade	munication modules for lete as well as Control M n preset and tested.	communicating w	ith Scada/BMS.
Pumps, piping, cabling comp The booster system has beer There are options to upgrade boosting system.	munication modules for lete as well as Control M n preset and tested. the pressure	communicating w	ith Scada/BMS.
Pumps, piping, cabling compl The booster system has beer There are options to upgrade boosting system. Flow media:	munication modules for lete as well as Control M n preset and tested. the pressure Water	communicating w	ith Scada/BMS.
Pumps, piping, cabling compl The booster system has beer There are options to upgrade boosting system. Flow media: Allowed liquid temp.:	munication modules for lete as well as Control M n preset and tested. the pressure Water 5 °C 60 °C	communicating w	ith Scada/BMS.
Pumps, piping, cabling comp The booster system has beer There are options to upgrade boosting system. Flow media: Allowed liquid temp.: System pressure max.:	munication modules for lete as well as Control M n preset and tested. the pressure Water 5 °C 60 °C 16 bar	communicating w	ith Scada/BMS.
Pumps, piping, cabling compl The booster system has been There are options to upgrade boosting system. Flow media: Allowed liquid temp.: System pressure max.: Flow (Plant):	munication modules for lete as well as Control M n preset and tested. the pressure Water 5 °C 60 °C 16 bar 56.8 m³/h	communicating w	ith Scada/BMS.
Pumps, piping, cabling compl The booster system has been There are options to upgrade boosting system. Flow media: Allowed liquid temp.: System pressure max.: Flow (Plant): Flow without one stand-by pu	munication modules for lete as well as Control M preset and tested. the pressure Water 5 °C 60 °C 16 bar 56.8 m³/h mp acc. DIN 1988/T5:	communicating w	ith Scada/BMS.
Pumps, piping, cabling compl The booster system has been There are options to upgrade boosting system. Flow media: Allowed liquid temp.: System pressure max.: Flow (Plant): Flow without one stand-by pu Nom. current of plant:	munication modules for lete as well as Control M preset and tested. the pressure Water 5 °C 60 °C 16 bar 56.8 m³/h Imp acc. DIN 1988/T5: 6 A	communicating w	ith Scada/BMS.
Pumps, piping, cabling compl The booster system has been There are options to upgrade boosting system. Flow media: Allowed liquid temp.: System pressure max.: Flow (Plant): Flow without one stand-by pu Nom. current of plant: Nominal power:	munication modules for lete as well as Control M preset and tested. the pressure Water 5 °C 60 °C 16 bar 56.8 m³/h Imp acc. DIN 1988/T5: 6 A 1.5 kW	communicating w	ith Scada/BMS.
Pumps, piping, cabling compl The booster system has been There are options to upgrade boosting system. Flow media: Allowed liquid temp.: System pressure max.: Flow (Plant): Flow without one stand-by pu Nom. current of plant: Nominal power:	munication modules for lete as well as Control M preset and tested. the pressure Water 5 °C 60 °C 16 bar 56.8 m³/h Imp acc. DIN 1988/T5: 6 A	communicating w	ith Scada/BMS.
Pumps, piping, cabling compl The booster system has been There are options to upgrade boosting system. Flow media: Allowed liquid temp.: System pressure max.: Flow (Plant): Flow without one stand-by pu Nom. current of plant: Nominal power:	munication modules for lete as well as Control M preset and tested. the pressure Water 5 °C 60 °C 16 bar 56.8 m³/h Imp acc. DIN 1988/T5: 6 A 1.5 kW	communicating w	ith Scada/BMS.
Pumps, piping, cabling compl The booster system has been There are options to upgrade boosting system. Flow media: Allowed liquid temp.: System pressure max.: Flow (Plant): Flow without one stand-by pu Nom. current of plant: Nominal power:	munication modules for lete as well as Control M preset and tested. the pressure Water 5 °C 60 °C 16 bar 56.8 m³/h Imp acc. DIN 1988/T5: 6 A 1.5 kW	communicating w	ith Scada/BMS.
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Pumps, piping, cabling compl The booster system has been There are options to upgrade boosting system. Flow media: Allowed liquid temp.: System pressure max.: Flow (Plant): Flow without one stand-by pu Nom. current of plant: Nominal power:	munication modules for lete as well as Control M preset and tested. the pressure Water 5 °C 60 °C 16 bar 56.8 m³/h Imp acc. DIN 1988/T5: 6 A 1.5 kW	communicating w	ith Scada/BMS.
It is possible to add CIM com Pumps, piping, cabling compl The booster system has beer There are options to upgrade boosting system. Flow media: Allowed liquid temp.: System pressure max.: Flow (Plant): Flow without one stand-by pu Nom. current of plant: Nominal power: Net weight:	munication modules for lete as well as Control M preset and tested. the pressure Water 5 °C 60 °C 16 bar 56.8 m³/h Imp acc. DIN 1988/T5: 6 A 1.5 kW	communicating w	ith Scada/BMS.
Pumps, piping, cabling compl The booster system has been There are options to upgrade boosting system. Flow media: Allowed liquid temp.: System pressure max.: Flow (Plant): Flow without one stand-by pu Nom. current of plant: Nominal power:	munication modules for lete as well as Control M preset and tested. the pressure Water 5 °C 60 °C 16 bar 56.8 m³/h Imp acc. DIN 1988/T5: 6 A 1.5 kW	communicating w	ith Scada/BMS.
Pumps, piping, cabling compl The booster system has been There are options to upgrade boosting system. Flow media: Allowed liquid temp.: System pressure max.: Flow (Plant): Flow without one stand-by pu Nom. current of plant: Nominal power:	munication modules for lete as well as Control M preset and tested. the pressure Water 5 °C 60 °C 16 bar 56.8 m³/h Imp acc. DIN 1988/T5: 6 A 1.5 kW	communicating w	ith Scada/BMS.
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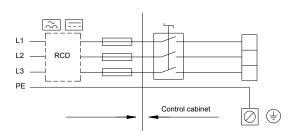




Description	Value
General information:	
Product name:	Hydro MPC-E 2 CRIE 15-1
Product No:	98426953
EAN number:	5711494818570
Technical:	
Rated flow:	41 m³/h
Max flow:	56.8 m³/h
Max flow system:	26 m³/h
Rated head:	14.5 m
Head max:	19.6 m
Main pump name:	CRIE 15-1
Main pump No:	98390727
Number of pumps:	2
Non-ret, valve:	at discharge side
Materials:	at discharge side
Manifolds:	EN/DIN 1 4571/ AISI 316 Ti
Installation:	EN/DIN 1.4571/ AISI 510 11
Range of ambient temperature:	540 °C
Maximum operating pressure:	16 bar
Maximum permissible inlet pressure:	15 1 bar
	15.1 Dar
Manifold inlet:	DN80
Manifold outlet:	DN80
Pressure rating:	PN 16
Earth connection:	N, PE
System design:	A
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	5 60 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m ³
Electrical data:	555.2 kg/m
Power (P2) main pump:	1.5 kW
	50 Hz
Mains frequency:	3 x 380-415 V
Rated voltage:	
Rated current of system:	6 A
Start. method:	electronically
Enclosure class (IEC 34-5):	IP54
Radio interference supression:	EMC DIRECTIVE(2014/30/EU)
Number of phases of main pump:	3
Controls:	
Control type:	E
Dry running protection, mechanical:	PRESSURE SENSOR 0-4 BAR
Tank:	
Volume of pressure tank:	12
Diaphragm tank:	Yes
Others:	
Basis plant:	Υ
Net weight:	164 kg
Gross weight:	185 kg
Sales region:	Great Britain
Config. file no:	98272401
Config.file Control MPC:	98271946

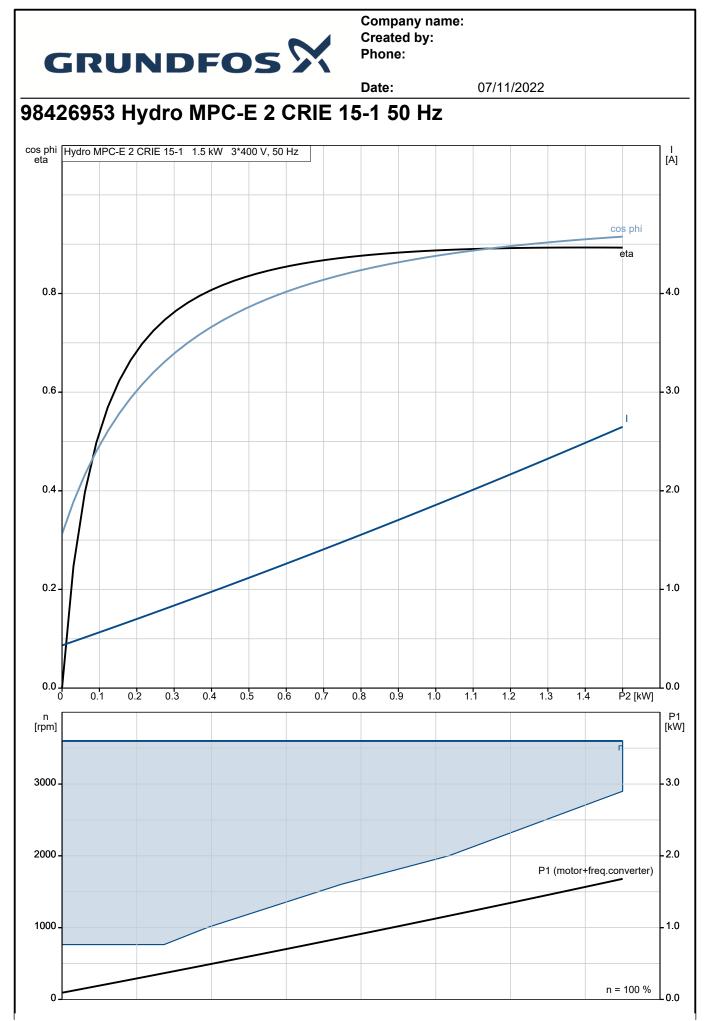






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Config.file Hydro MPC:

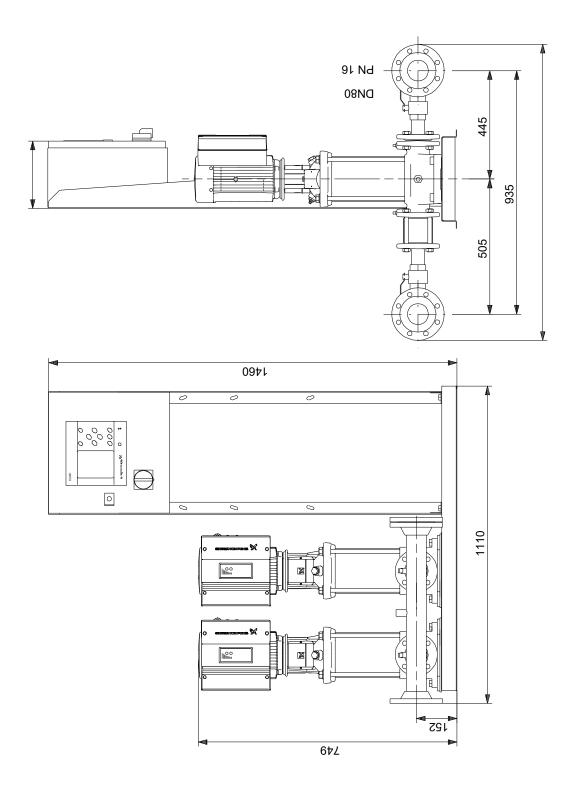




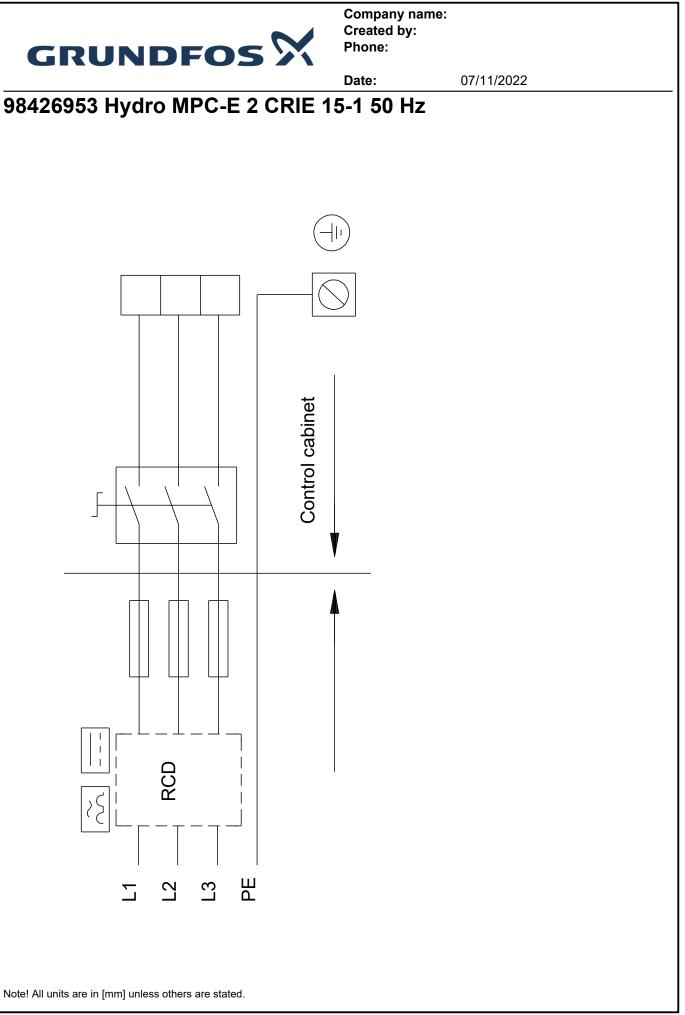
Date:

07/11/2022

98426953 Hydro MPC-E 2 CRIE 15-1 50 Hz



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





Your pos.

Position

Company name: Created by: Phone:

07/11/2022 Date: **Order Data:** Total **Product name** Amount **Product No** Hydro MPC-E 2 CRIE 15-1 1 98426953 Price on request

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