Vorgabedaten

PROJEKT:	UNIT TAG:	MENGE:
	SERVICELEISTUNG:	
ANSPRECHPARTNER:	VORGEGEBEN VON:	DATUM:
INGENIEUR/TECHNIKER:	GENEHMIGT VON:	DATUM:
AUFTRAGNEHMER:	BESTELLNUMMER:	DATUM:

Hydro MPC-S 4 CRI 3-7

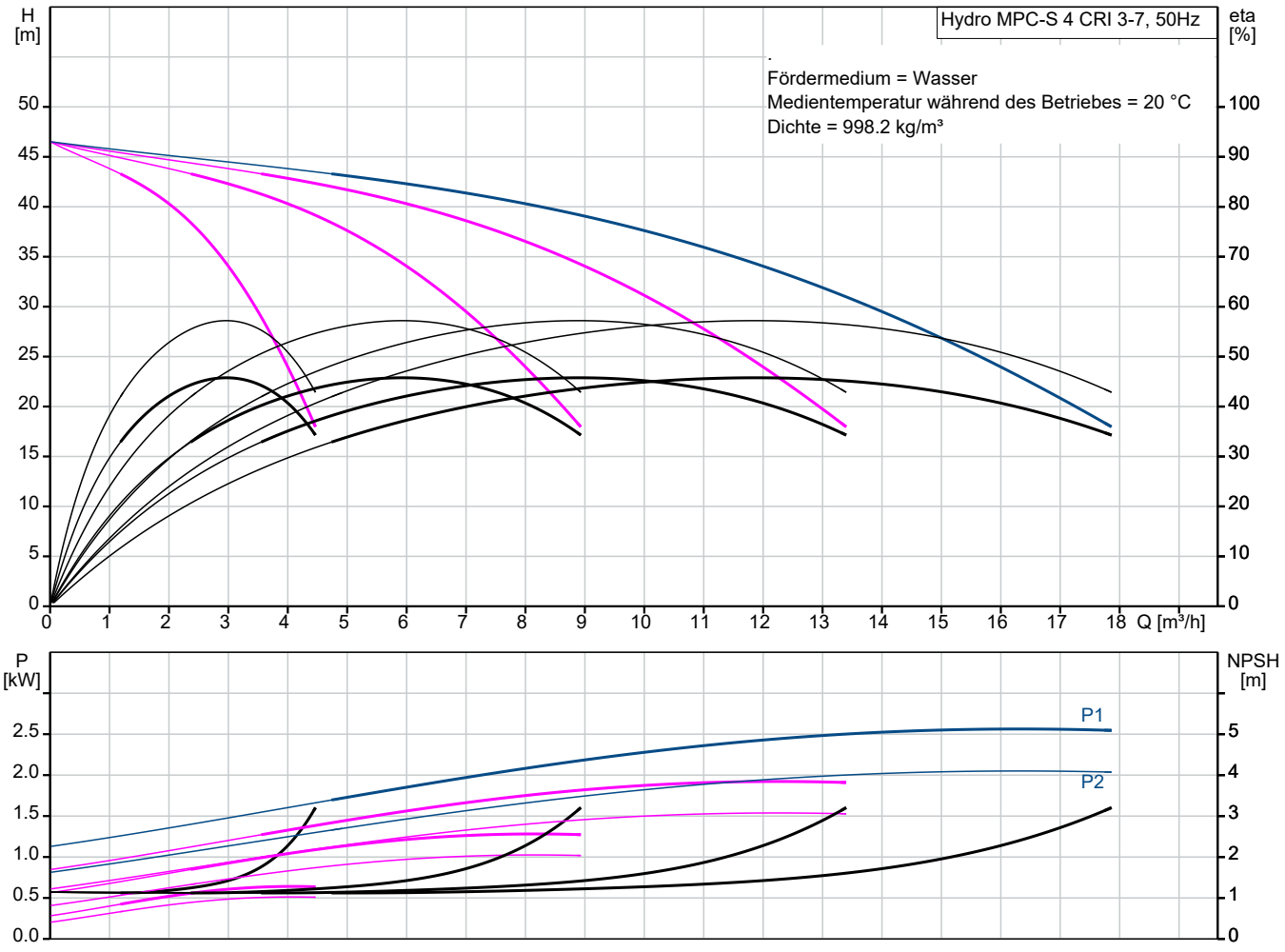
Druckerhöhungsanlagen mit EIN/AUS-Steuerung

Hinweis! Abbildung kann vom Produkt abweichen.

Servicebedingungen	
Fördermedium:	Wasser
Temperatur:	20 °C
Relative Dichte:	1.000

Pumpendaten	
Max. Betriebsdruck:	16 bar
Medientemperaturbereich:	5 .. 60 °C
Maximale Umgebungstemperatur:	40 °C
Produktnummer:	auf Anfr.

Motordaten	
Netzfrequenz:	50 Hz
Schutzart:	IP54



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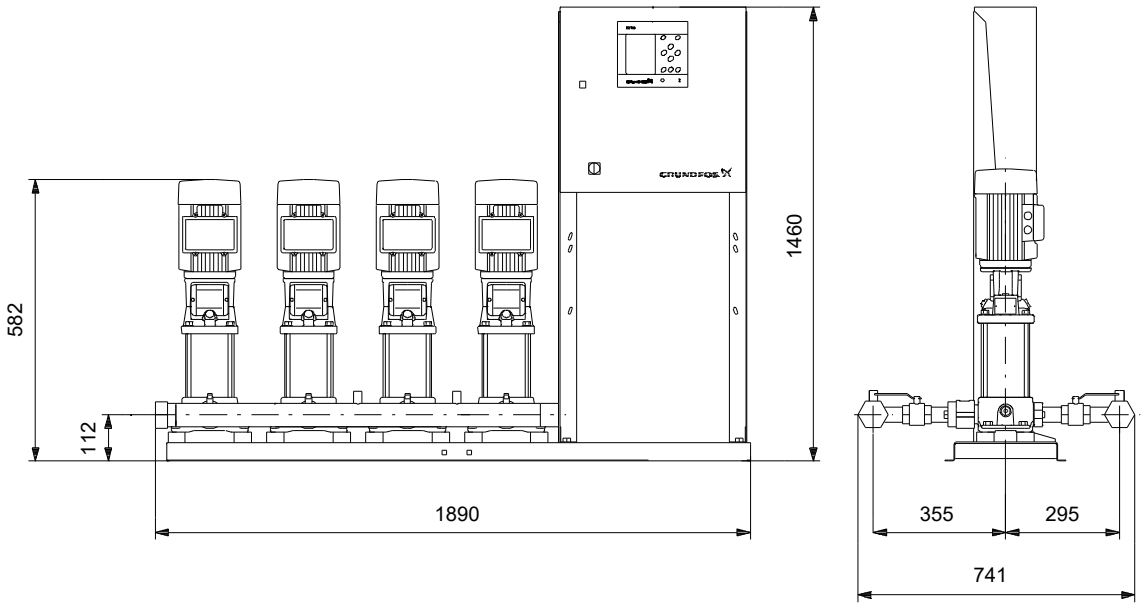


Werkstoffe:
Verrohrung: Edelstahl 1.4571 (AISI 316 Ti)

Name des Unternehmens:
Angelegt von:
Telefon:

Datum: 13.02.2024

Anz.	Beschreibung
1	**Hydro MPC-S 4 CRI 3-7**

Hinweis! Abbildung kann vom Produkt abweichen.

Produktnr.: auf Anfr.

Pressure booster system supplied as compact assembly according to DIN standard 1988/T5.

The pumps are all mains-operated CR(I) pumps.

* Hydro MPC-S maintains the pressure through cutting in/out the CR(I) pumps.
* The system performance is adapted to the demand through cutting in/out the required number of CR(I) pumps and through parallel control of the pumps in operation.
* Pump changeover is automatic and depends on load, time and fault.

The system consists of these parts:

* vertical multistage centrifugal pumps, type CRI 3-7.
* The pumps are mains-operated (start/stop).
* 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 the service-friendly cartridge shaft seal HQQE (SiC/SiC/EPDM).
* Two manifolds of stainless steel EN DIN 1.4571.
* Base frame of stainless steel EN DIN 1.4301 up to CR 64. Above CR 64 the pumps are placed on a galvanized C-profile 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, IP 54, 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:

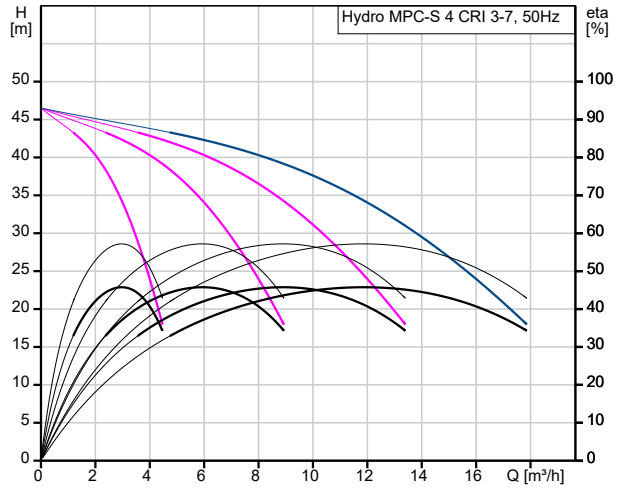
* Mains-operated pumps(start/stop).
* Constant Pressure – the system is able to maintain an almost constant pressure through cutting in/out the required number of pumps.
* System overview – Nice system overview via pump animation and icons on color screen.
* Dry-running protection – increase your system reliability and decrease maintenance costs.
* Alarm & Warnings – real time alarms and warnings on the color display reduces downtime.
* Alarm & Warnings logger – storage of up to 24 alarms and warnings makes fault analyzing easier.
* Monitoring – the CU 352 holds several monitoring possibilities such as pressure level, pump outside duty range, this gives you great system insights.
* Logged data – valuable insights available on the big color screen or exported to a PC for further analysis.
* Protective functions – Several functions ensure reliable and safe operation and the result is longer lifetime.
* Clock program – setpoint automatically reduced to the required value at any given time which means money saved on energy.
* Redundancy – it is possible to assign one or more standby pumps, these will take over in case of failure.
*

Anz.	Beschreibung
1	Pump test run – prevents pumps from seizing up and liquid from decaying in the pumps and removes trapped air. * Emergency run – pumps keep running regardless of warnings and alarms. * Forced pump changeover – setting of pump changeover so the pumps run for the same number of operation hours. * Fall back sensor - If the Primary sensor fails, the system will automatically be regulating on the fallback sensor at a predefined setpoint, thereby you avoiding downtime in case of primary sensor fault. * Communication – Ethernet, PLC via IO 351, Modbus-Profibus-LON-GSM-GPRS via CIU modules. * Multi language - wide range of operating languages. Pumps, piping, cabling complete as well as Control MPC are mounted on the base frame. The booster system has been preset and tested. Fördermedium: Wasser zul. Mediumtemp.: 5 °C .. 60 °C Max. Betriebsdruck: 16 bar Max. Förderstrom d. Anlage: 18 m³/h Nennstrom der Anlage: 6.1 A Motorbemessungsleistung: 0.55 kW Membranbehälter, Komponenten zur Wassermangel-überwachung und alternative Bedieneinheiten können aus der Zubehörliste ausgewählt werden. Nettogewicht: 159 kg

Name des Unternehmens:
Angelegt von:
Telefon:

Datum: 13.02.2024

Beschreibung	Daten
Allgemeine Informationen:	
Produktbezeichnung:	Hydro MPC-S 4 CRI 3-7
Produktnummer:	auf Anfr.
EAN-Nummer:	auf Anfr.
Preis:	
Technische Daten:	
Nennförderstrom:	12 m³/h
Maximaler Förderstrom:	18 m³/h
Nennförderhöhe:	32.8 m
Maximale Förderhöhe:	45.9 m
Bezeichnung der Hauptpumpe:	CRI 3-7
Produktnummer Hauptpumpe:	96516725
Anzahl der Pumpen:	4
Rückflußverhinderer:	Y
Werkstoffe:	
Verrohrung:	Edelstahl 1.4571 (AISI 316 Ti)
Installation:	
Umgebungstemperatur:	5 .. 40 °C
Max. Betriebsdruck:	16 bar
Maximal zulässiger Zulaufdruck:	11.4 bar
Anschluss Saugseite:	R 2 1/2"
Anschluss Druckseite:	R 2 1/2"
Nenndruck:	PN 16
Masseanschluss:	PE
Anlagengestaltung:	A
Fördermedium:	
Fördermedium:	Wasser
Medientemperaturbereich:	5 .. 60 °C
Medientemperatur während des Betriebs:	20 °C
Dichte:	998.2 kg/m³
Elektrische Daten:	
Leistung (P2) je Pumpe:	0.55 kW
Netzfrequenz:	50 Hz
Bemessungsspannung:	3 x 380-415 V
Nennstrom der Anlage:	6.1 A
Einschaltart:	DOL
Schutzart (gemäß IEC 34-5):	IP54
Funkentstörung:	EMC DIRECTIVE(2014/30/EU)
Anzahl der Phasen der Hauptpumpe:	3
Art der Steuerung:	
Steuerungsart:	S
Behälter:	
Membrandruckbehälter:	N
Sonstiges:	
Basisprodukt:	Y
Nettogewicht:	159 kg
Bruttogewicht:	208 kg
Softwareversion:	98272173
Konfigurationsdatei Control MPC:	98272009
Konfigurationsdatei Hydro MPC:	98272018



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Fördermedium = Wasser
Medientemperatur während des Betriebes = 20 °C
Dichte = 998.2 kg/m³