

Hydro-Unit Premium Line

Technical specification booklet
series: Hydro-Unit DPV(M)E
Hydro-Unit HR DPV(M)E
Hydro-Unit FR DPV(M)E



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1 Introduction

1.1 Abbreviations

	Explanation
HU	Hydro-Unit
DPC	DP Control
HR	High Efficiency
FR	Frequency controlled system
MCMF	Megacontrol Multi- Frequency (each pump frequency driven)
DOL	Direct On Line
AISI	StainLess Steel
G	Gas thread
NAP	Normal Amsterdam Peil

Table 5: Specification of the working range

Type	DP
Ambient temperature [°C]	0 - 30
Liquid temperature [°C]	+4 - 40 ¹
Maximum working pressure [kPa]	1000 / 1.600
Supply pressure [kPa]	Non-cavitating ¹ . Minimum: 120 kPa Maximum: supply pressure plus pump pressure together may not exceed 1000 / 1600 kPa
Maximum height	1000 m above NAP

1. Contact your supplier for more detailed advice.

1.2 Range DPV(M)E

Table 1: Range HU 2/3 DPC DOL

	2	4	6	10	15
PN10	/2 - /8	/2 - /6	/2 - /6	/2 - /5	/2 - /3
PN16	/9 - /14	/7 - /12	/7 - /12	/6 - /10	/4 - /6

Table 2: Range HU 2/3 DPC DOL HR

	2	4	6	10
PN10	/2 - /8	/2 - /6	/2 - /6	/2 - /5
Tank [l]	100	100	100	200

Table 3: Range HU 2/3 MCMF

	2 60 Hz!	4 60 Hz!	6 60 Hz!	10 50 Hz!	15 50 Hz!
PN10	/2 - /5	/2 - /4	/2 - /3	/2 - /5	/2
PN16	/6 - /10	/5 - /8	/4 - /6	/6	

Table 4: Range HU 2/3 MC FRP

	4 60 Hz!	6 60 Hz!	10 50 Hz!	15 50 Hz!
PN10				/3
PN16	/9	/7	/7 - /10	/4 - /8

1.3 Working range

The working range of the installation can be summarised as follows:

1.4 Basic materials

Item	Hydraulic part	Casting parts	Sealing
Pump	1.4301	1.4308	EPDM
Non-return valve	POM		Rubber
Shut-off valve	nickel-plated brass	nickel-plated brass	
Manifold	1.4301		
Diaphragm tank	Stainless steel connection / epoxy coating		Butyl rubber
Pressure switch	Bronze		
Pressure transmitter	1.4305		
Drain	Brass		
Misc.	May contain brass parts		

5

1.5 Flow through Membrane tank

The membrane tank on the booster set is a flow through type. The water in the tank is continuously refreshed.



1.6 Motors

Table 7: Motor data 3 phase 2p 50 Hz

Nominal power [kW]	Frame size	Motor efficiency classes	Voltage [V]	Nominal current [A]	Factor Ia/in	Cos Phi	Voltage tolerance	Nominal speed [rpm]	Motor efficiency 50%	Motor efficiency 75%	Sound pressure [dB(A)]	Gland	Max. starts per hour
0,37	71B	-	230/400	1,6/0,95	4,5	0,76	10%	2865	-	-	76	60	1xM20x1,5 50
0,55	71C	-	230/400	2,1/1,2	5,3	0,8	10%	2880	-	-	82	60	1xM20x1,5 50
0,75	80B	IE2	230/400	3,1/1,8	6,0	0,77	10%	2865	-	-	80	60	1xM20x1,5 50
0,75	80A	IE3	230/400	3,1/1,8	6,6	0,76	10%	2880	75,5	79,5	80,7	55	1xM20x1,5 180
1,1	80C	IE2	230/400	4,2/2,4	6,8	0,81	10%	2870	-	-	82,5	60	1xM20x1,5 50
1,1	80B	IE3	230/400	4,0/2,3	6,4	0,81	10%	2880	83,9	85,1	84,0	55	1xM20x1,5 180
1,5	90S	IE2	230/400	5,7/3,3	7,6	0,81	10%	2880	-	-	81,8	56	1xM20x1,5 50
1,5	90S	IE3	230/400	5,5/3,2	8,0	0,81	10%	2880	82,8	84,5	84,2	55	1xM20x1,5 50
2,2	90L	IE2	230/400	8,2/4,7	7,3	0,81	10%	2870	-	-	83,5	56	1xM20x1,5 30
2,2	90L	IE3	230/400	8,0/4,6	8,8	0,8	10%	2900	84,3	85,8	85,9	55	1xM20x1,5 30
3	100L	IE2	400/690	6,2/3,6	9,0	0,83	10%	2905	-	-	84,6	58	2xM20x1,5 30
3	100L	IE3	400/690	5,8/3,3	9,3	0,85	10%	2920	86,2	87,7	87,1	57	2xM20x1,5 30
4	112M	IE2	400/690	7,7/4,5	8,5	0,87	10%	2915	-	-	86,3	59	2xM20x1,5 30
4	112M	IE3	400/690	7,4/4,3	9,5	0,89	10%	2930	88,1	88,8	88,1	58	2xM20x1,5 30
5,5	132S	IE2	400/690	10,1/5,9	8,8	0,9	10%	2930	-	-	87,5	64	2xM25x1,5 20
5,5	132S	IE3	400/690	10,0/5,8	8,8	0,89	10%	2940	87,7	89,2	89,2	63	2xM25x1,5 20
7,5	132S	IE2	400/690	13,2/7,7	8,5	0,92	10%	2920	-	-	88,6	64	2xM25x1,5 20
7,5	132S	IE3	400/690	13,3/7,7	9,2	0,89	10%	2940	89,0	90,3	90,1	63	2xM25x1,5 20

1.7 Approvals

VEWIN water worksheets

CE Complies with the European Safety Directive

1.8 Model code

HU	2	D _P VME	2	/2	MS	G 1	AISI304	G 6/4	PN10	PS	DPC DOL	3x400V+N 50 Hz
HU												Hydro-Unit
2	3											Number of pumps
	DPV(M)E											Pump series
		2	4	6	10	15						Type pump
												Number stages
												Material supply pipe
												Size fittings
												Material discharge pipe
												Size manifold (suction and discharge)
												Pressure class of installation
												Run dry protection by means of pressure switch
												Type of control:
												DOL = Direct On Line
												DOL HR = with extra diaphragm tank for high efficiency
												MCMF = frequency inverter each pump, output 60 Hz for 2/4/6 and 50 Hz for the 10/15 series. Build in cabinet
												MC FRP = frequency inverter build on the pump
												Supply voltage and frequency
												Hz



2 Performance graphs

2.1 Performance with variable frequency drive

The minimum frequency of the DP motor should be limited to 10 Hz to ensure sufficient cooling. When the rotational speed exceeds the nominal speed of the motor, make sure that the power output of the motor is suitable to drive the corresponding pump model.

The performance of the pump differs from the fixed speed performance according to the recalculation scheme.

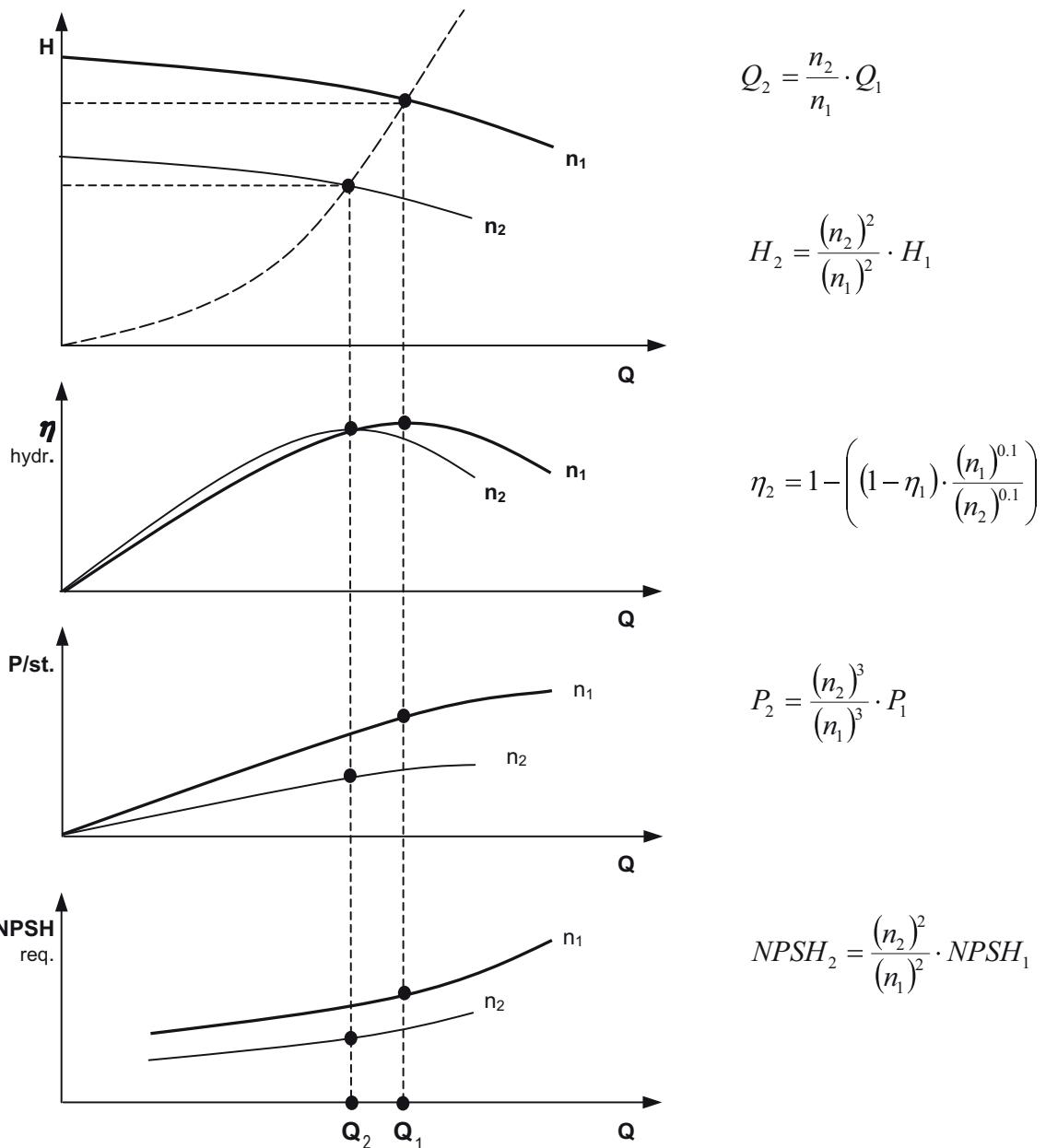


Figure 1: Performance characteristics

2.2 How to read the values from the curves

To find the required hydraulic information from the published curves, it is important to know the application in which the pump has to be installed.

There are two main distinction to be made:

- A Flow determined (like booster sets and cleaning) → Opening taps
- B Pressure determined (like boiler feed and reverse osmosis systems) → Facing counter pressure.

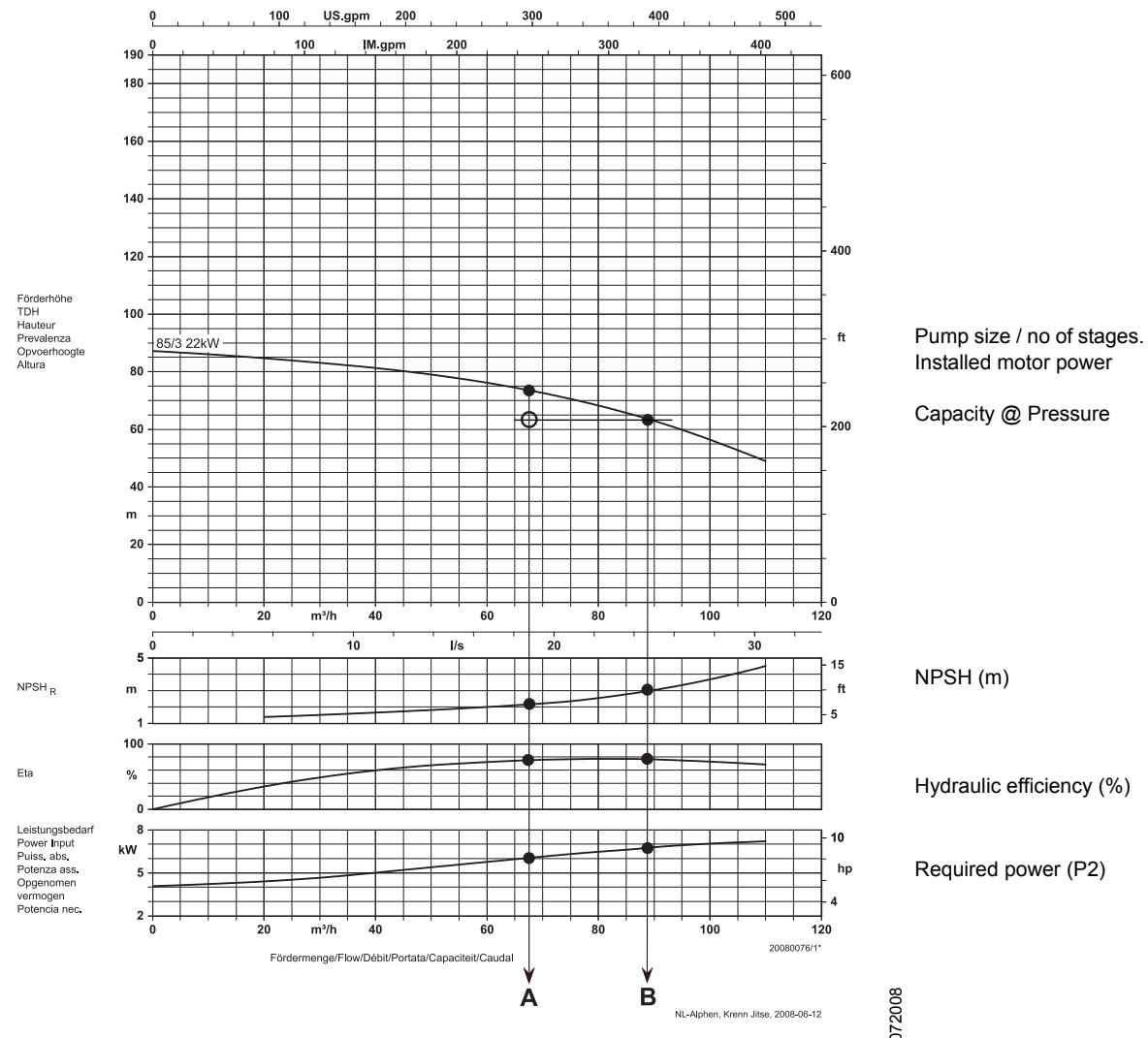


Figure 2: How to read the values from the curves

- O Calculated duty point
- Actual hydraulic performance
- A Flow determined
- B Pressure determined

3227/04072008

2.3 Hydraulic performance curve DPV(M)E2 (50 Hz ~ 2850 rpm) (1 pump in operation)

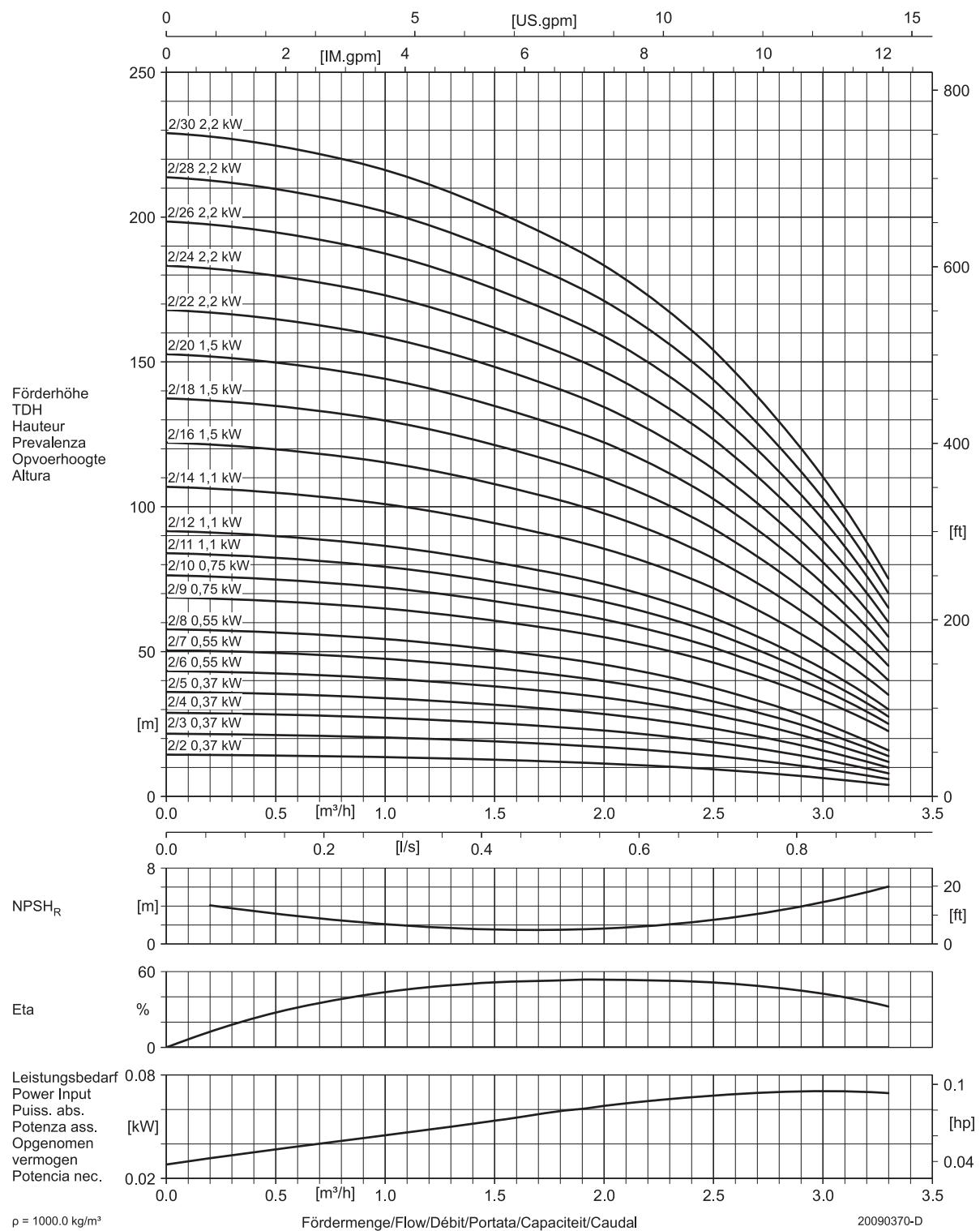


Figure 3: Performance curve DPV(M)E2 (50 Hz ~ 2850 rpm)

2.4 Hydraulic performance curve DPV(M)E2 (60 Hz ~ 3450 rpm) (1 pump in operation)

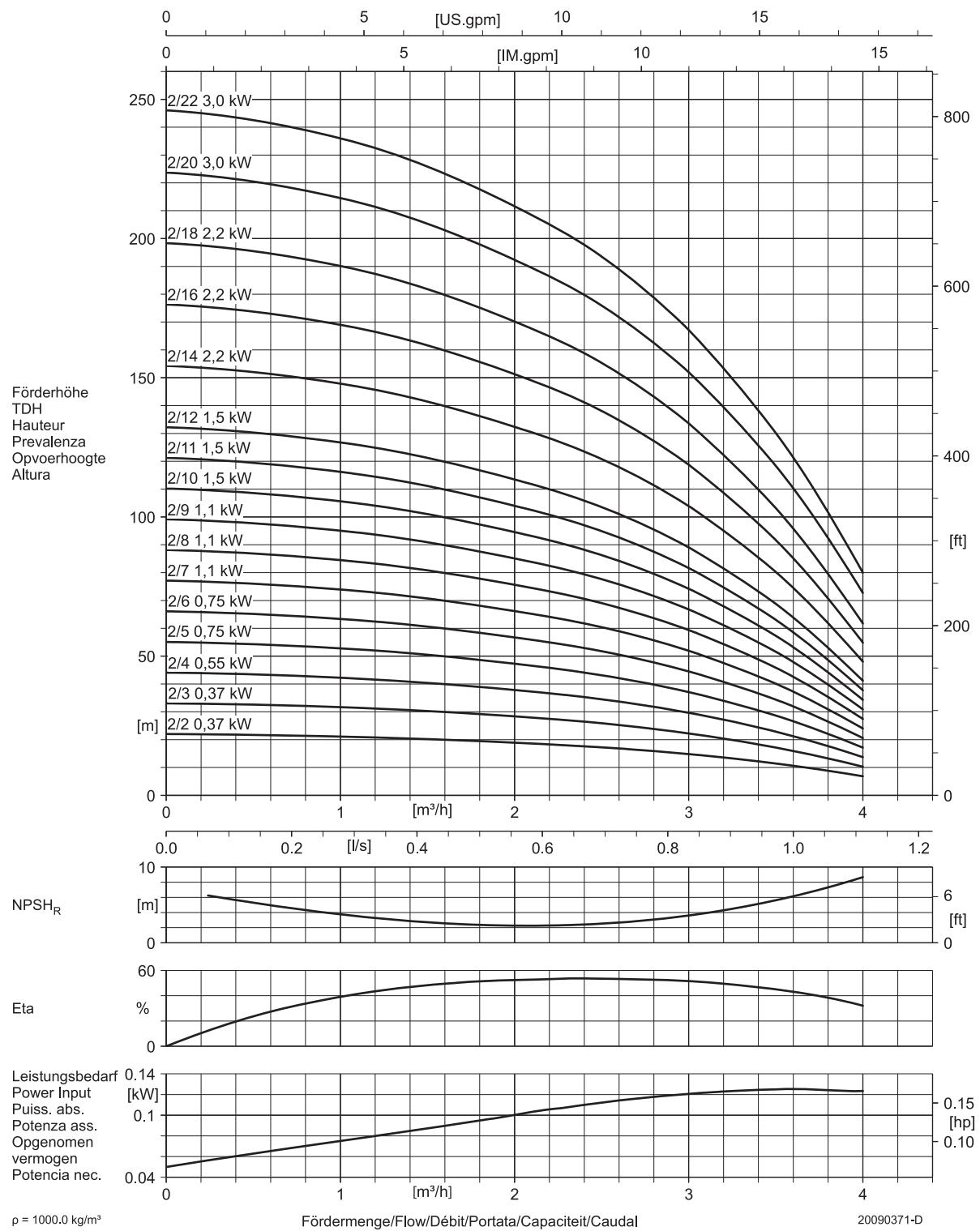


Figure 4: Performance curve DPV(M)E 2 (60 Hz ~ 3450 rpm)

2.5 Hydraulic performance curve DPV(M)E 4 (50 Hz ~ 2850 rpm) (1 pump in operation)

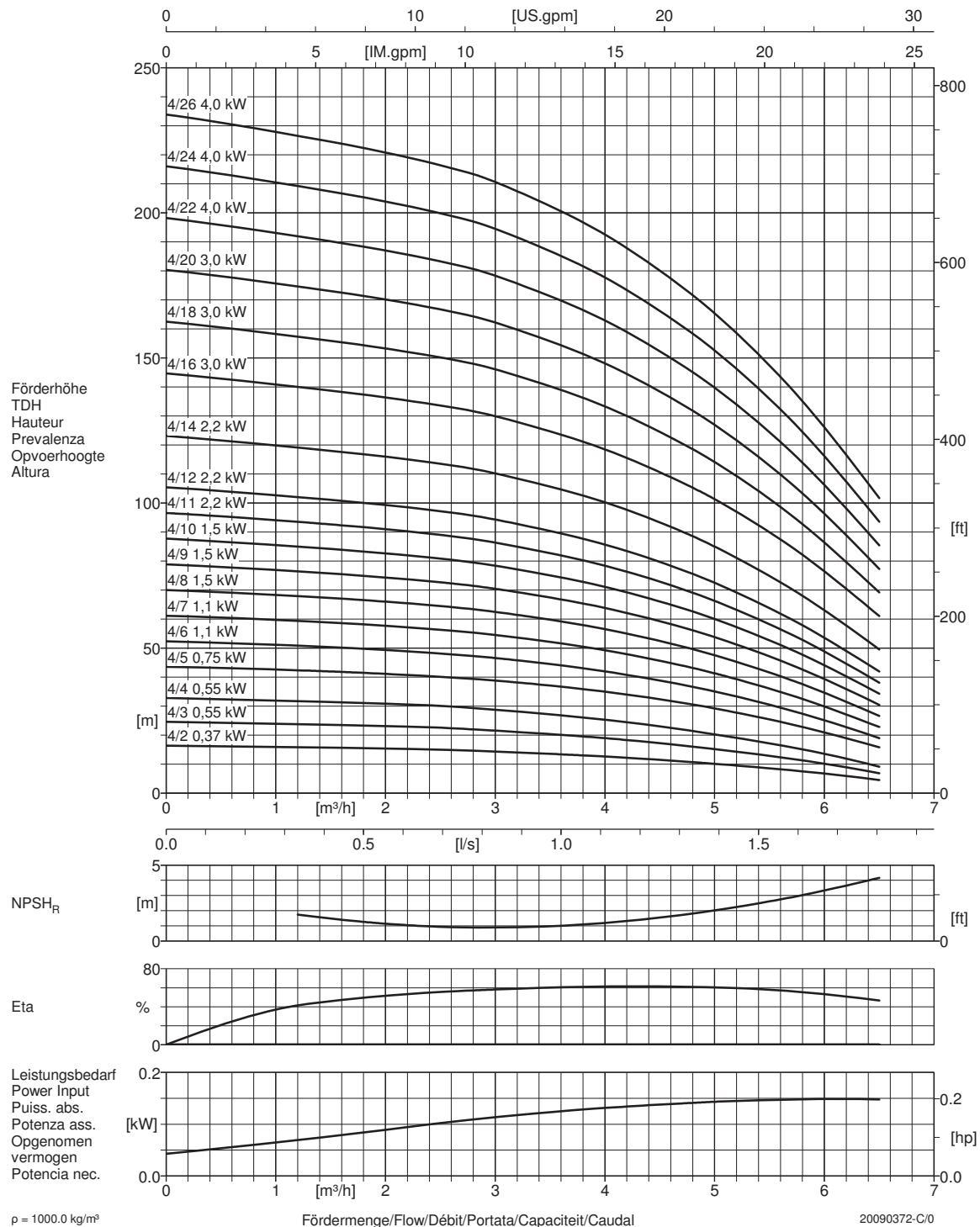


Figure 5: Performance curve DPV(M)E4 (50 Hz ~ 2850 rpm)

2.6 Hydraulic performance curve DPV(M)E 4 (60 Hz ~ 3450 rpm) (1 pump in operation)

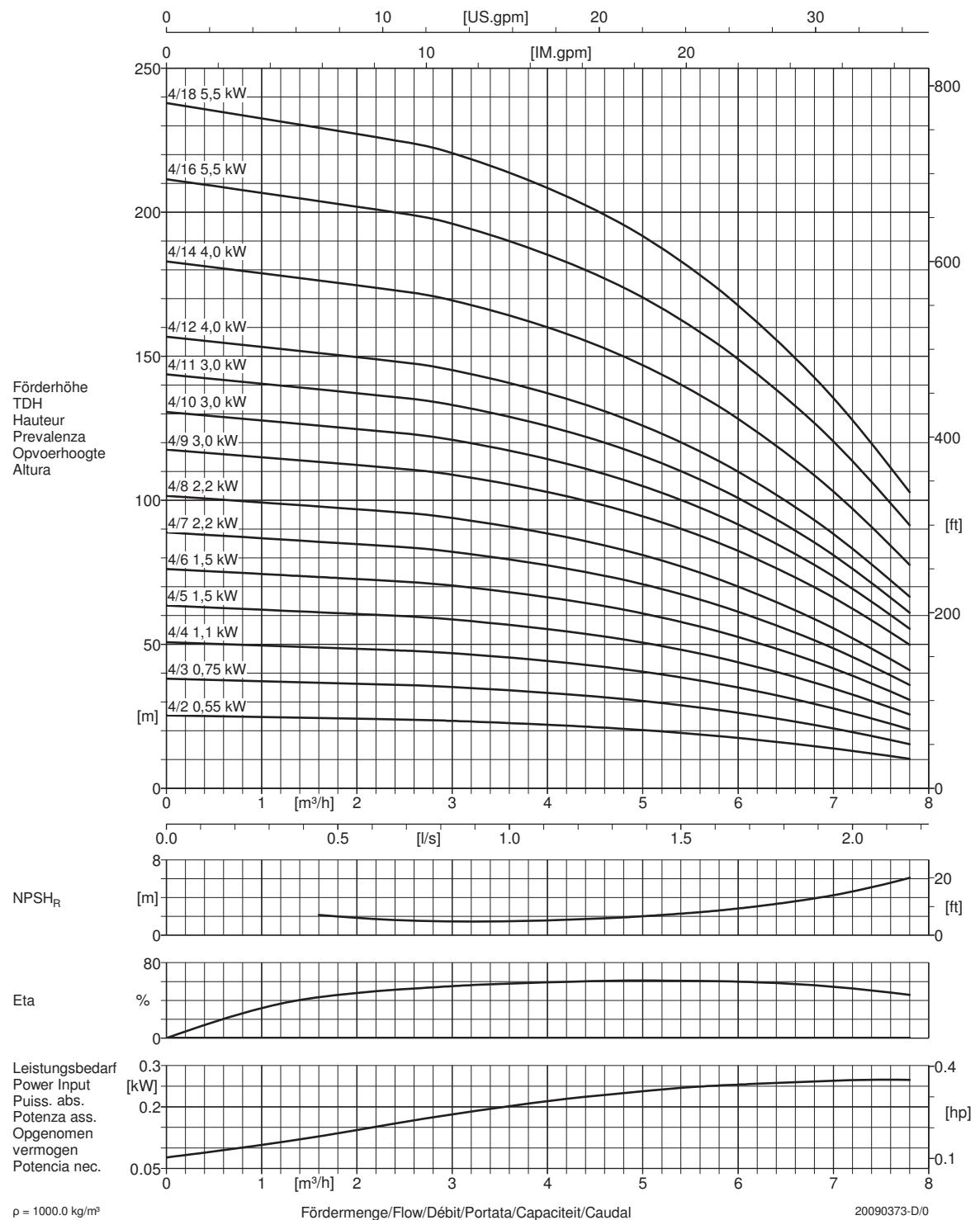


Figure 6: Performance curve DPV(M)E 4 (60 Hz ~ 3450 rpm)

2.7 Hydraulic performance curve DPV(M)E 6 (50 Hz ~ 2850 rpm) (1 pump in operation)

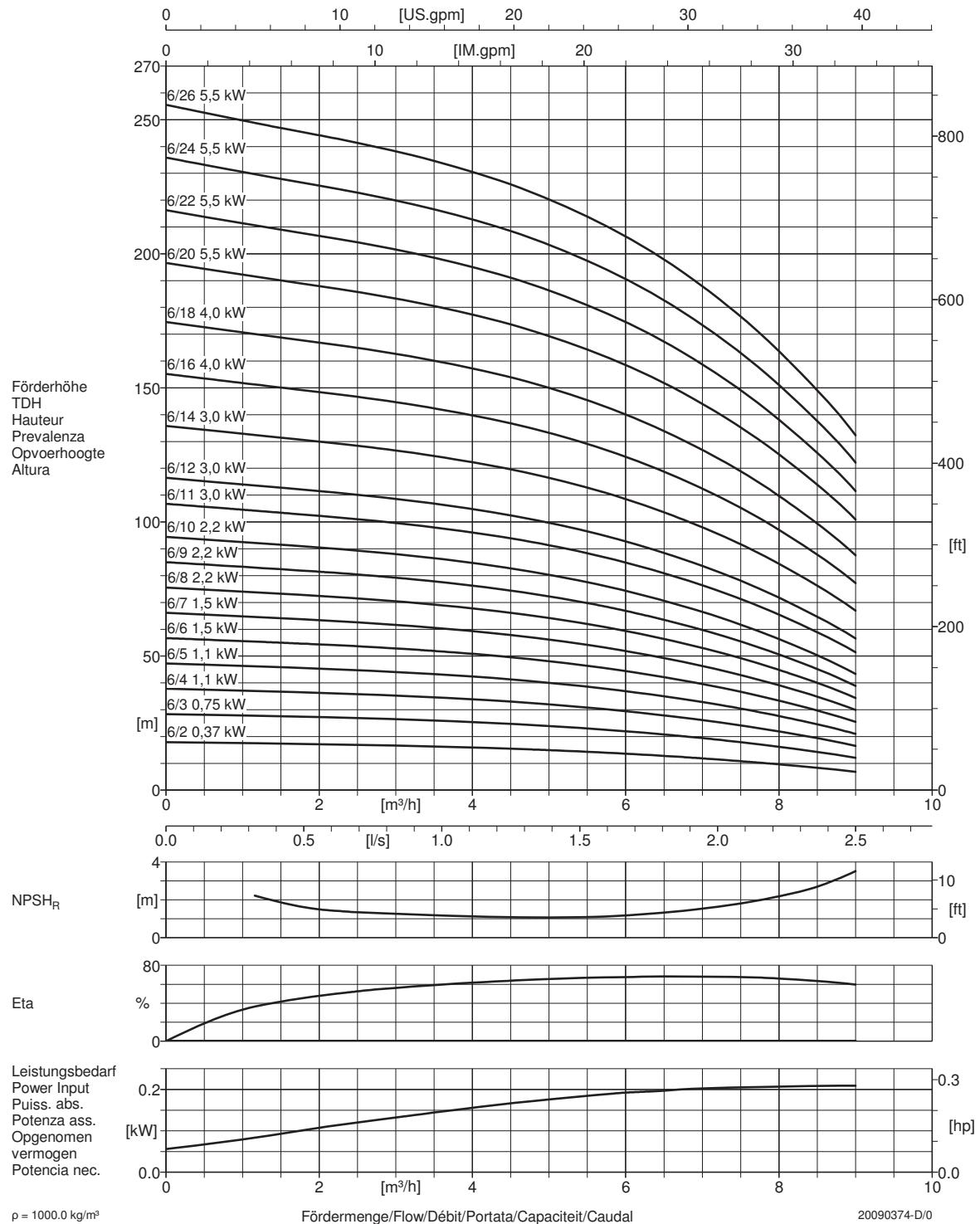


Figure 7: Performance curve DPV(M)E 6 (50 Hz ~ 2850 rpm)

2.8 Hydraulic performance curve DPV(M)E6 (60 Hz ~ 3450 rpm) (1 pump in operation)

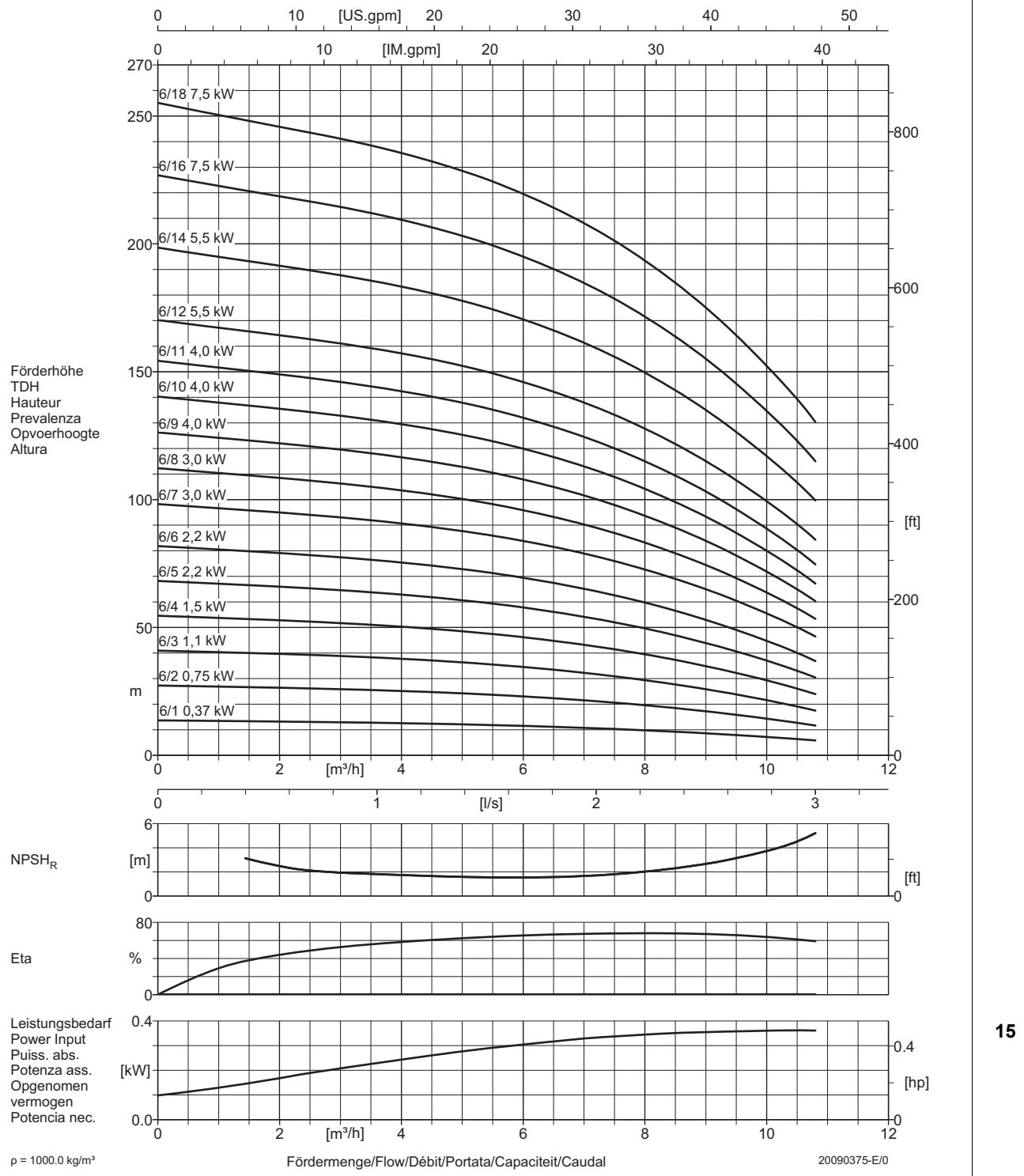


Figure 8: Performance curve DPV(M)E 6 (60 Hz ~ 3450 rpm)

2.9 Hydraulic performance curve DPVE10 (50 Hz ~ 2850 rpm) (1 pump in operation)

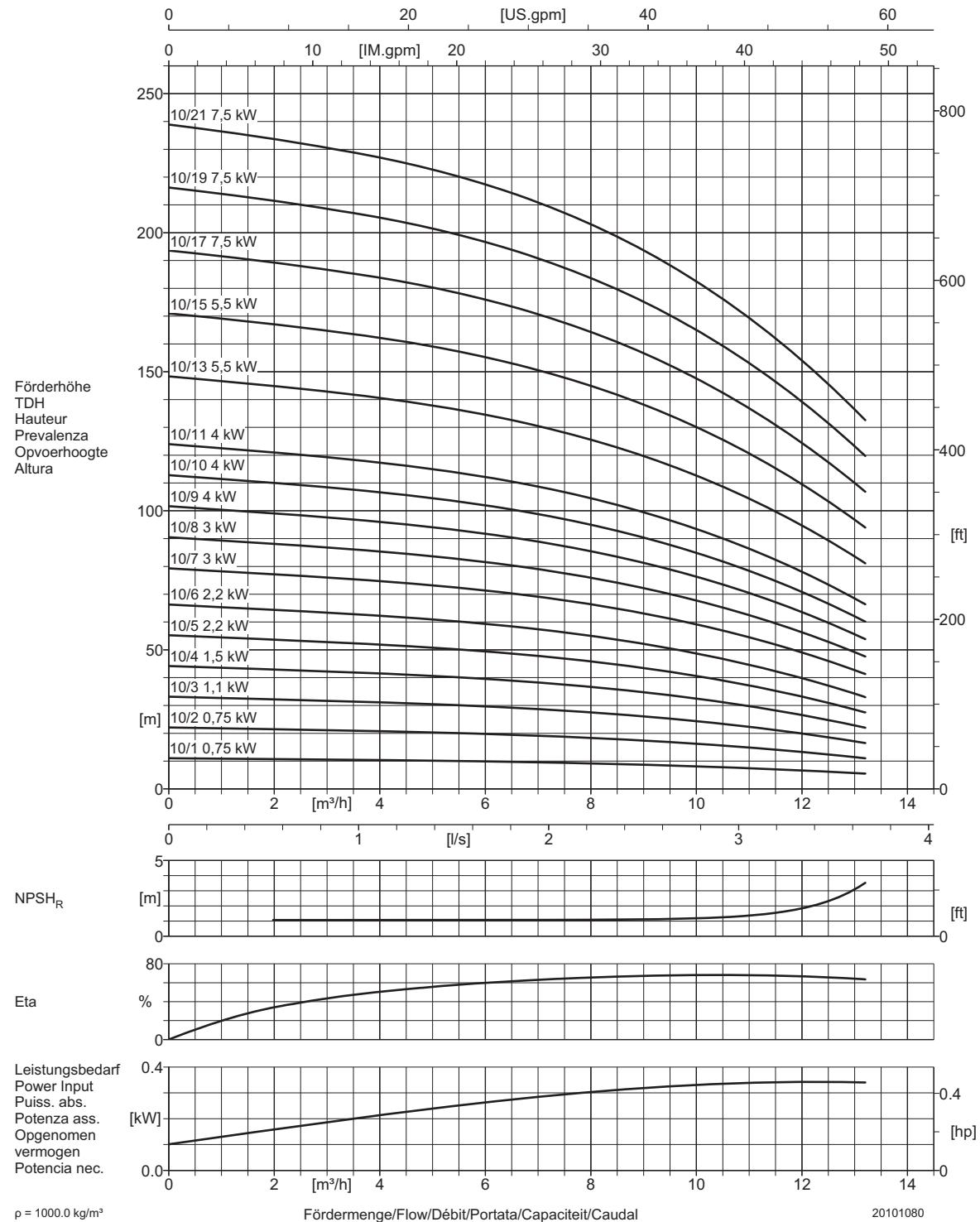


Figure 9: Performance curve DPVE10 (50 Hz ~ 2850 rpm)

2.10 Hydraulic performance curve DPVE15 (50 Hz ~ 2850 rpm) (1 pump in operation)

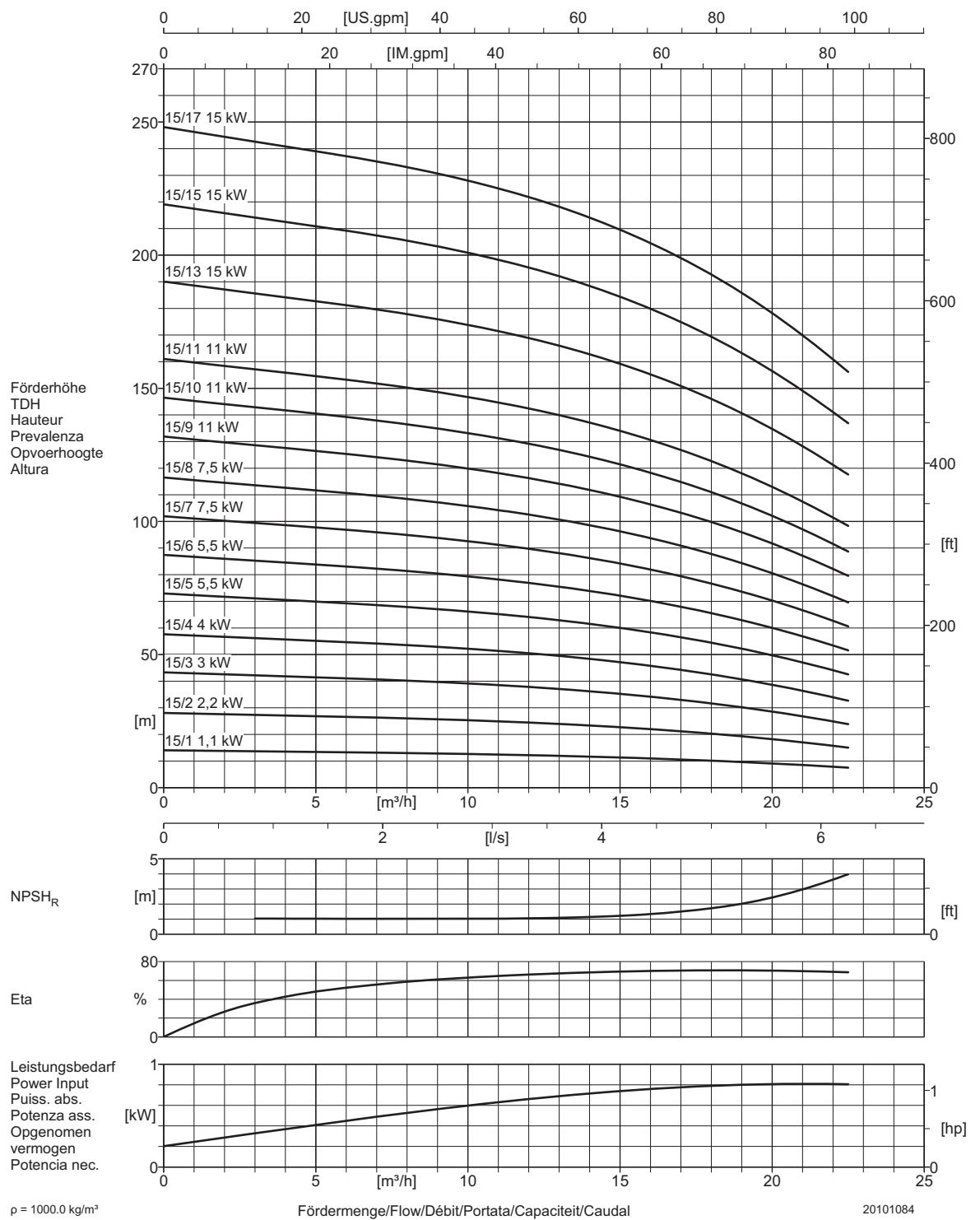


Figure 10: Performance curve DPVE15 (50 Hz ~ 2850 rpm)

3 Specification

3.1 Dimensions and weights HU standard booster sets

3.1.1 HU2 DPVME2/4/6 DPC DOL

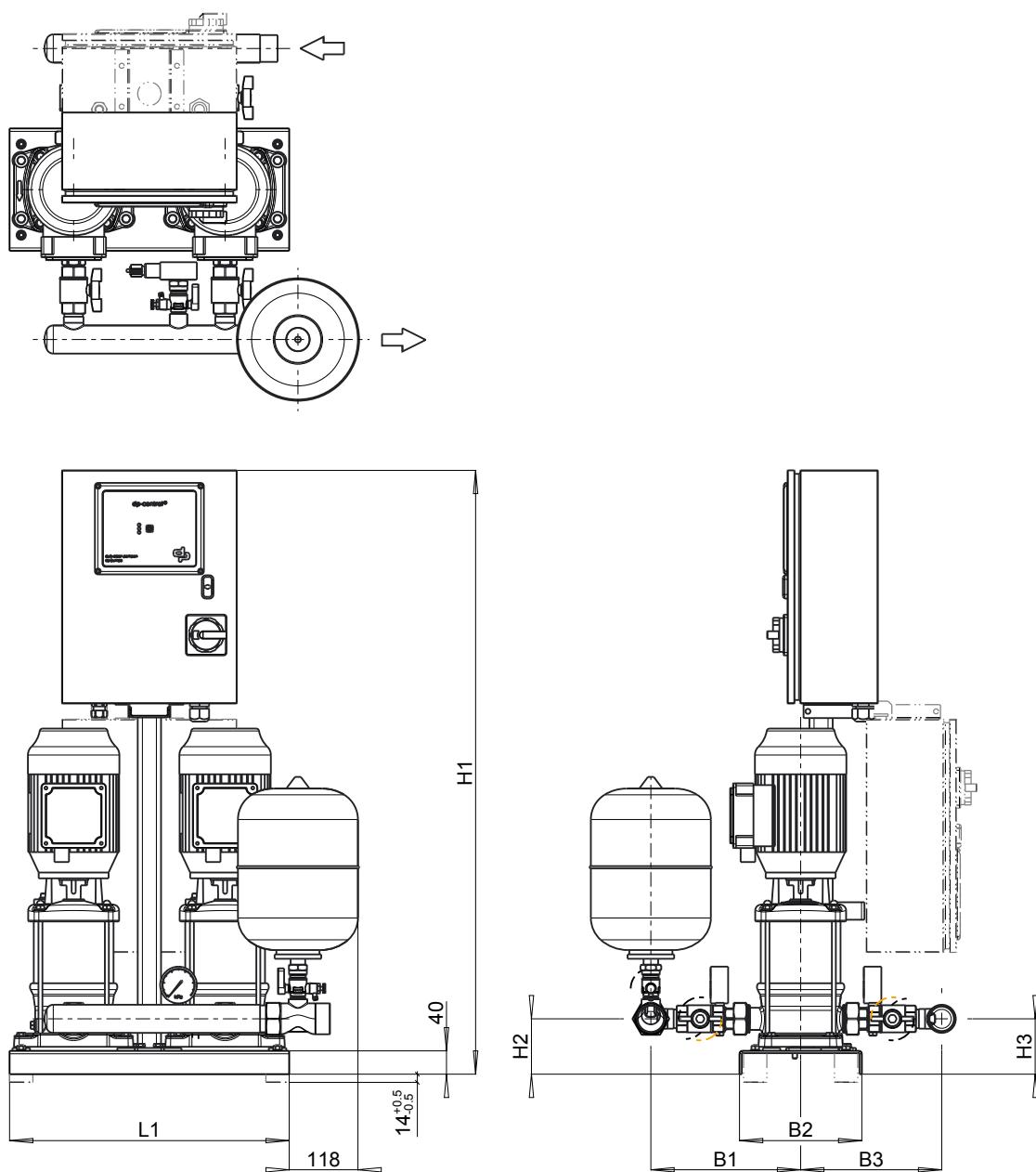


Figure 11: HU2 DPVME2/4/6 DPC

Table 8: General

Control	DPC DOL
Run-dry protection	Pressure Switch
Connection voltage	3x400V+N 50Hz
Insulation class	IP55
Max. fuse	25A
Membrane tank	Flow through type, 8 l
Drawing number	20131004

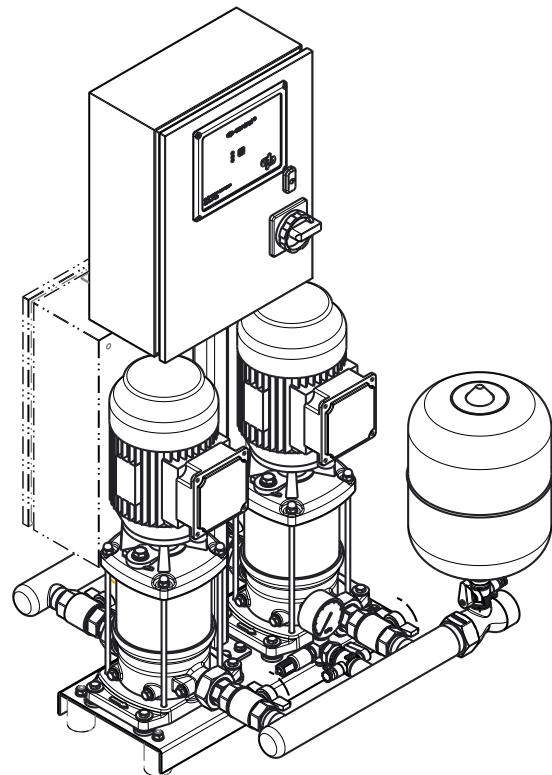


Figure 12: HU2 DPVME2/4/6 DPC

Table 9: Detailed

Article number	Number of stages	Fitting (material - connection)	Collecting pipe (material - connection)	Pressure class	I max installation	Pump speed	H1 [mm]	H2 [mm]	H3 [mm]	B1 [mm]	B2 [mm]	B3 [mm]	L1 [mm]	Mass [kg]
DPVME2														
HU212201D11Q	/2	MS G 1	AISI304 G 6/4	PN10	2,90A	2750rpm	1036	95	95	260	210	245	480	65
HU212301D11Q	/3	MS G 1	AISI304 G 6/4	PN10	2,90A	2750rpm	1036	95	95	260	210	245	480	65
HU212401D11Q	/4	MS G 1	AISI304 G 6/4	PN10	2,90A	2750rpm	1036	95	95	260	210	245	480	66
HU212501D11Q	/5	MS G 1	AISI304 G 6/4	PN10	2,90A	2750rpm	1036	95	95	260	210	245	480	67
HU212601D11Q	/6	MS G 1	AISI304 G 6/4	PN10	3,70A	2790rpm	1036	95	95	260	210	245	480	68
DPVME4														
HU214201D11Q	/2	MS G 1	AISI304 G 6/4	PN10	2,90A	2750rpm	1036	95	95	260	210	245	480	65
HU214301D11Q	/3	MS G 1	AISI304 G 6/4	PN10	3,70A	2790rpm	1036	95	95	260	210	245	480	66
HU214401D11Q	/4	MS G 1	AISI304 G 6/4	PN10	3,70A	2790rpm	1036	95	95	260	210	245	480	66
HU214501D11Q	/5	MS G 1	AISI304 G 6/4	PN10	4,40A	2875rpm	1036	95	95	260	210	245	480	79
HU214601D11Q	/6	MS G 1	AISI304 G 6/4	PN10	5,90A	2875rpm	1036	95	95	260	210	245	480	80
DPVME6														
HU216201D11Q	/2	MS G 1	AISI304 G 6/4	PN10	3,70A	2790rpm	1036	95	95	260	210	245	480	66
HU216301D11Q	/3	MS G 1	AISI304 G 6/4	PN10	4,40A	2875rpm	1036	95	95	260	210	245	480	79
HU216401D11Q	/4	MS G 1	AISI304 G 6/4	PN10	5,90A	2875rpm	1036	95	95	260	210	245	480	80
HU216501D11Q	/5	MS G 1	AISI304 G 6/4	PN10	5,90A	2875rpm	1036	95	95	260	210	245	480	80

3.1.2 HU2 DPVE2/4/6 DPC DOL

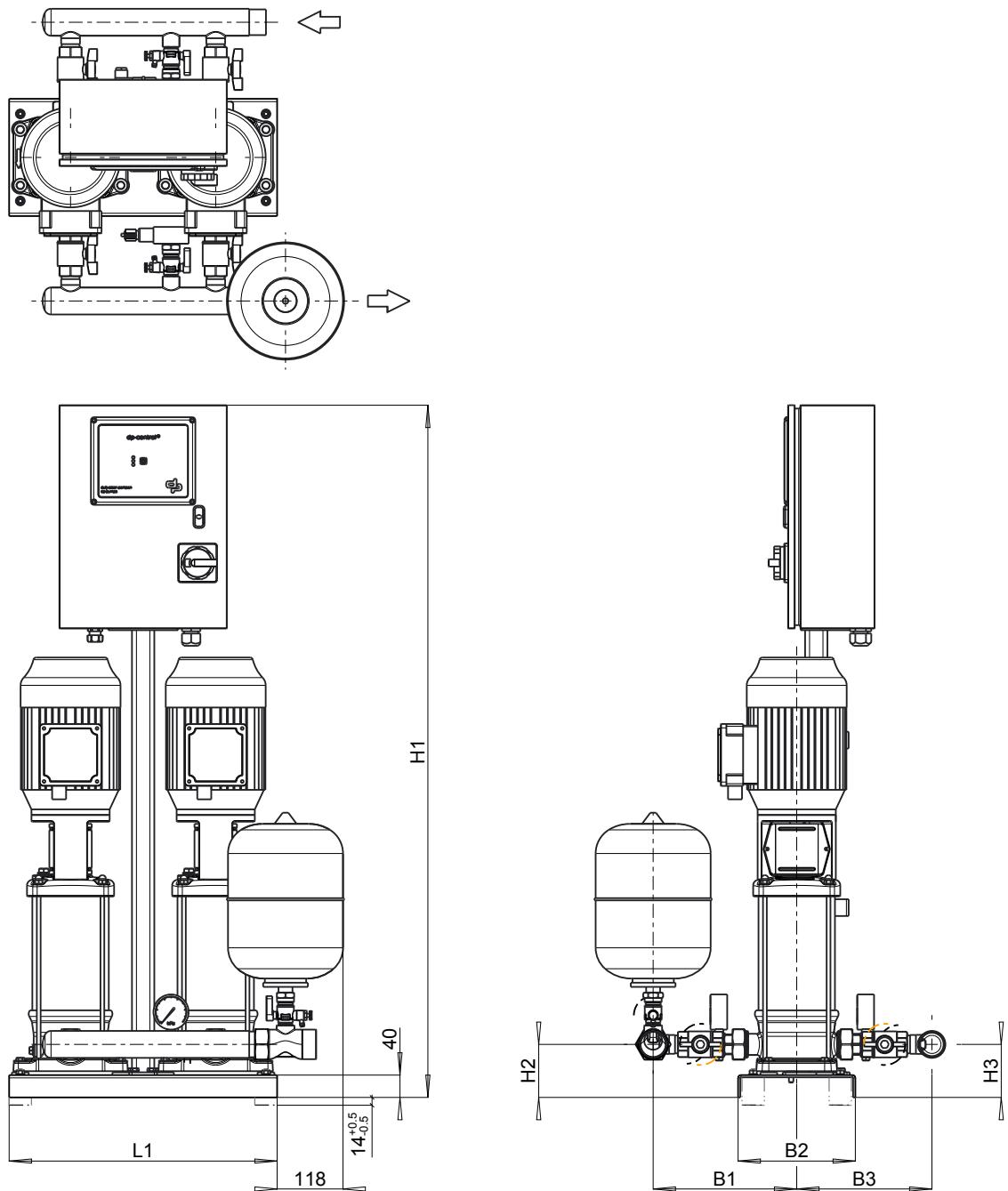


Figure 13: HU2 DPVE2/4/6 DPC

20131007

Table 10: General

Control	DPC DOL/SFT
Run dry protection	Pressure switch
Connection voltage	3x400V+N 50Hz
Insulation class	IP55
Max fuse	25A
Membrane tank	Flow through type, 8 l
Drawing number	20131007

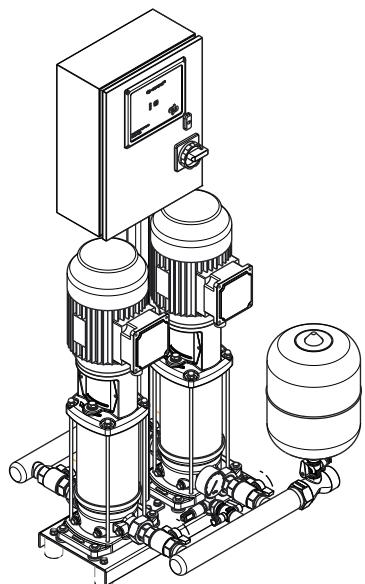


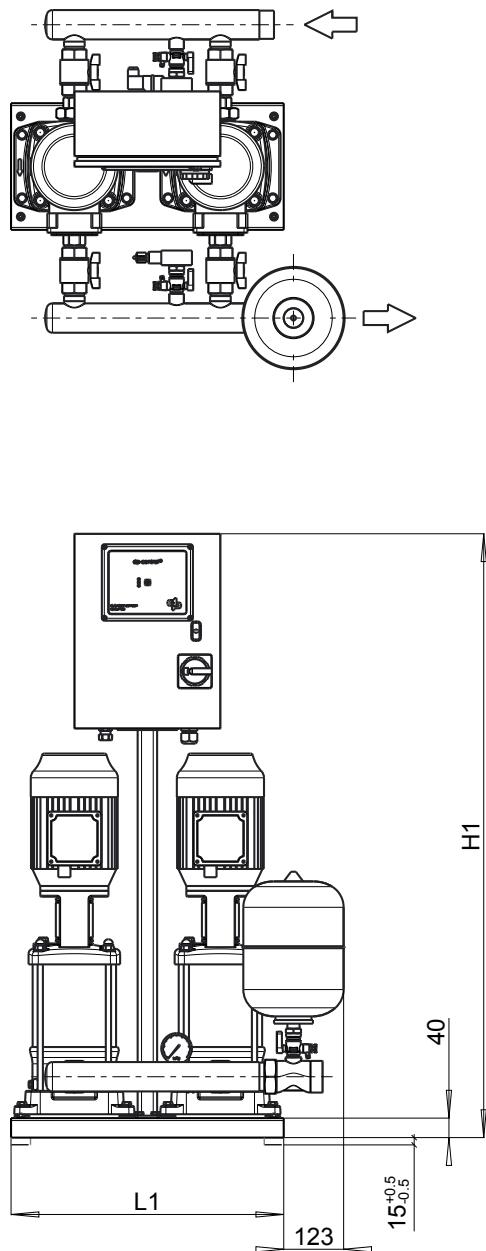
Figure 14: HU2 DPVE2/4/6 DPC

Table 11: Detailed

Article number	Number of stages	Fitting (material - connection)	Collecting pipe (material - connection)	Pressure class	I max installation	Pump speed	H1 [mm]	H2 [mm]	H3 [mm]	B1 [mm]	B2 [mm]	B3 [mm]	L1 [mm]	Mass [kg]
DPVE2														
HU222701D11Q	/7	MS G 1	AISI304 G 6/4	PN10	3,40A	2790rpm	1254	95	95	260	210	245	480	70
HU222801D11Q	/8	MS G 1	AISI304 G 6/4	PN10	3,40A	2790rpm	1254	95	95	260	210	245	480	71
HU222902D11Q	/9	MS G 1	AISI304 G 6/4	PN16	4,60A	2875rpm	1254	95	95	260	210	245	480	84
HU222A02D11Q	/10	MS G 1	AISI304 G 6/4	PN16	4,60A	2875rpm	1254	95	95	260	210	245	480	85
HU222B02D11Q	/11	MS G 1	AISI304 G 6/4	PN16	5,80A	2875rpm	1254	95	95	260	210	245	480	86
HU222C07D11Q	/12	MS G 1	AISI304 G 6/4	PN16	5,80A	2870rpm	1254	95	95	260	210	245	480	
HU222E07D11Q	/14	MS G 1	AISI304 G 6/4	PN16	5,80A	2870rpm	1454	95	95	260	210	245	480	
DPVE4														
HU224702D11Q	/7	MS G 1	AISI304 G 6/4	PN16	5,80A	2875rpm	1254	95	95	260	210	245	480	82
HU224802D11Q	/8	MS G 1	AISI304 G 6/4	PN16	7,60A	2900rpm	1254	95	95	260	210	245	480	95
HU224902D11Q	/9	MS G 1	AISI304 G 6/4	PN16	7,60A	2900rpm	1254	95	95	260	210	245	480	96
HU224A07D11Q	/10	MS G 1	AISI304 G 6/4	PN16	7,60A	2880rpm	1254	95	95	260	210	245	480	
HU224B07D11Q	/11	MS G 1	AISI304 G 6/4	PN16	10,40A	2870rpm	1454	95	95	260	210	245	480	
HU224C07D11Q	/12	MS G 1	AISI304 G 6/4	PN16	10,40A	2870rpm	1454	95	95	260	210	245	480	
DPVE6														
HU226601D11Q	/6	MS G 1	AISI304 G 6/4	PN10	7,60A	2900rpm	1254	95	95	260	210	245	480	94
HU226702D11Q	/7	MS G 1	AISI304 G 6/4	PN16	7,60A	2900rpm	1254	95	95	260	210	245	480	95
HU226802D11Q	/8	MS G 1	AISI304 G 6/4	PN16	10,40A	2900rpm	1254	95	95	260	210	245	480	98
HU226902D11Q	/9	MS G 1	AISI304 G 6/4	PN16	10,40A	2900rpm	1254	95	95	260	210	245	480	99
HU226A07D11Q	/10	MS G 1	AISI304 G 6/4	PN16	10,40A	2900rpm	1454	95	95	260	210	245	480	
HU226B07D12Q ¹	/11	MS G 1	AISI304 G 6/4	PN16	13,40A	2900rpm	1454	95	95	260	210	245	480	
HU226C07D12Q ¹	/12	MS G 1	AISI304 G 6/4	PN16	13,40A	2900rpm	1454	95	95	260	210	245	480	

1. With softstarter

3.1.3 HU2 DPVE10 DPC DOL



22

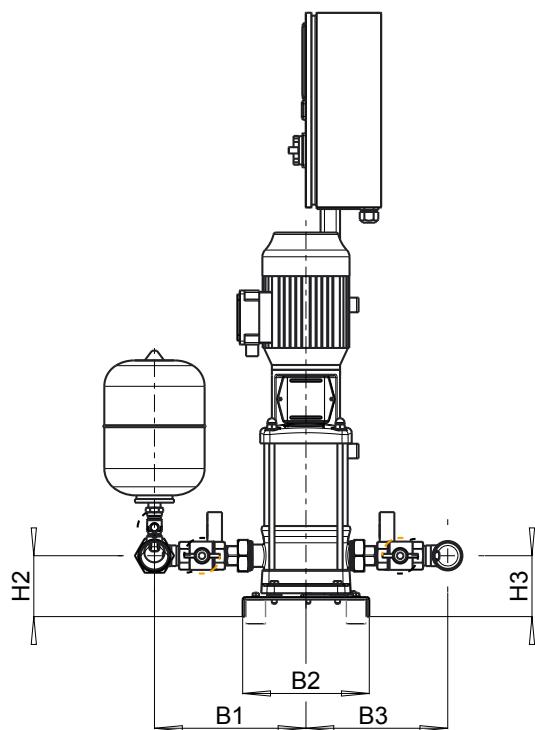


Figure 15: HU2 DPVE10 DPC

20131016

Table 12: General

Control	DPC DOL/SFT
Run dry protection	Pressure switch
Connection voltage	3x400V+N 50Hz
Insulation class	IP55
Max. fuse	25A
Membrane tank	Flow through type, 8 l
Drawing number	20131016

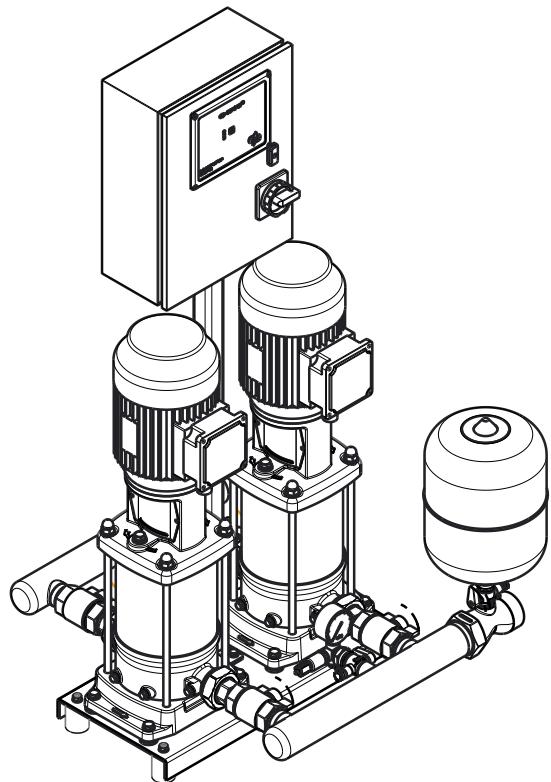


Figure 16: HU2 DPVE10 DPC

Table 13: Detailed

Article number	Number of stages	Fitting (material - connection)	Collecting pipe (material - connection)	Pressure class	l max installation	Pump speed	H1 [mm]	H2 [mm]	H3 [mm]	B1 [mm]	B2 [mm]	B3 [mm]	L1 [mm]	Mass [kg]
DPVE10														
HU22A201E11Q	/2	MS G 5/4	AISI304 G 2	PN10	4,60A	2850rpm	1240	125	125	315	260	295	560	101
HU22A301E11Q	/3	MS G 5/4	AISI304 G 2	PN10	5,80A	2850rpm	1240	125	125	315	260	295	560	113
HU22A401E11Q	/4	MS G 5/4	AISI304 G 2	PN10	7,60A	2850rpm	1240	125	125	315	260	295	560	121
HU22A501E11Q	/5	MS G 5/4	AISI304 G 2	PN10	10,40A	2850rpm	1240	125	125	315	260	295	560	130
HU22A602E11Q	/6	MS G 5/4	AISI304 G 2	PN16	10,40A	2850rpm	1240	125	125	315	260	295	560	139
HU22A707E12Q ¹	/7	MS G 5/4	AISI304 G 2	PN16	13,40A	2950rpm	1440	125	125	315	300	295		
HU22A807E12Q ¹	/8	MS G 5/4	AISI304 G 2	PN16	13,40A	2950rpm	1440	125	125	315	300	295		
HU22A907E12Q ¹	/9	MS G 5/4	AISI304 G 2	PN16	16,40A	2915rpm	1440	125	125	315	300	295		
HU22AA07E12Q ¹	/10	MS G 5/4	AISI304 G 2	PN16	16,40A	2915rpm	1440	125	125	315	300	295	600	

1. With softstarter

3.1.4 HU2 DPVE15 DPC DOL

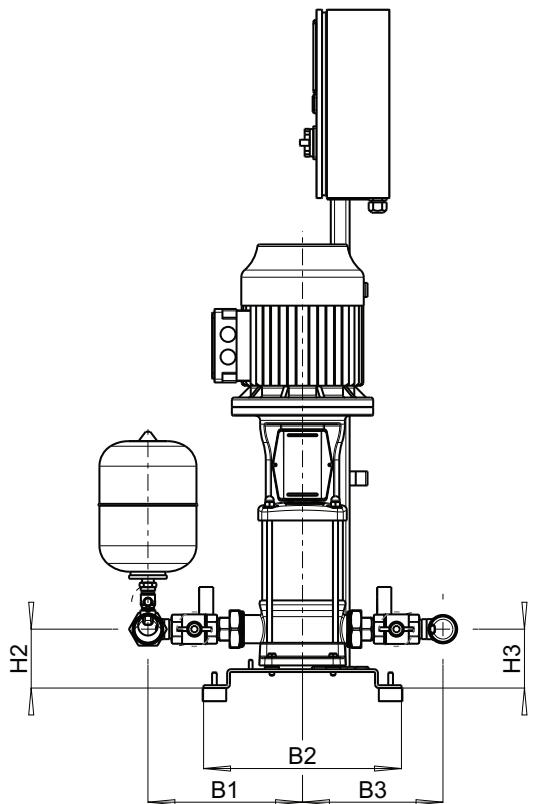
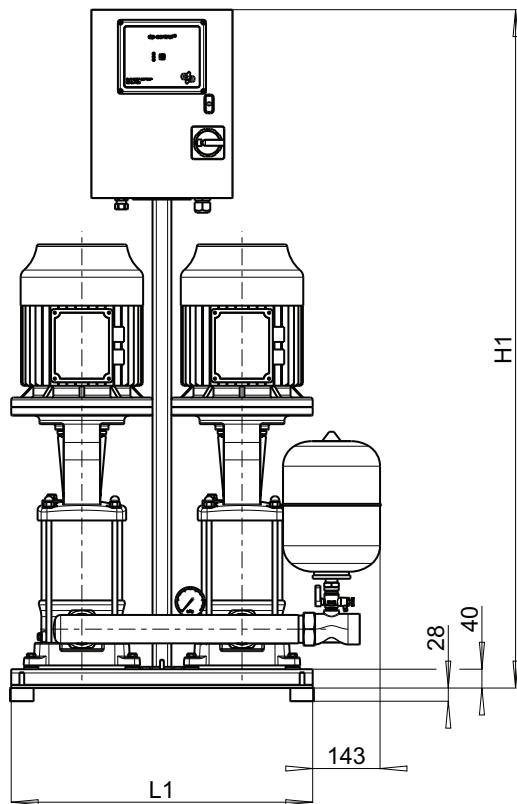
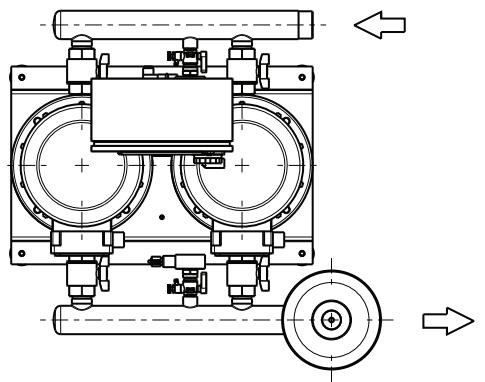


Figure 17: HU2 DPVE15 DPC

Table 14: General

Control	DPC DOL/SFT
Run dry protection	Pressure switch
Connection voltage	3x400V+N 50Hz
Insulation class	IP55
Max. fuse	25A
Membrane tank	Flow through type, 8 l
Drawing number	20150032

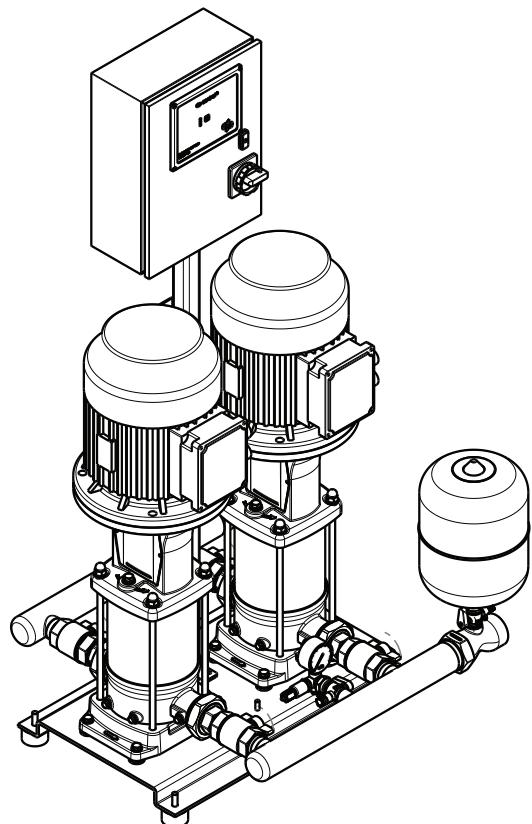


Figure 18: HU2 DPVE15 DPC

Table 15: Detailed

Article number	Number of stages	Fitting (material - connection)	Collecting pipe (material - connection)	Pressure class	I max installation	Pump speed	H1 [mm]	H2 [mm]	H3 [mm]	B1 [mm]	B2 [mm]	B3 [mm]	L1 [mm]	Mass [kg]
DPVE15														
HU22B207E11Q	/2	MS G 6/4	AISI304 G 5/2	PN10	10,40A	2870rpm	1240	125	125	340	420	310	640	
HU22B307E12Q ¹	/3	MS G 6/4	AISI304 G 5/2	PN10	13,40A	2905rpm	1240	125	125	340	420	310	640	
HU22B407E12Q ¹	/4	MS G 6/4	AISI304 G 5/2	PN10	16,40A	2915rpm	1440	125	125	340	420	310	640	
HU22B507E12Q ¹	/5	MS G 6/4	AISI304 G 5/2	PN16	21,20A	2930rpm	1440	125	125	340	420	310	640	
HU22B607E12Q ¹	/6	MS G 6/4	AISI304 G 5/2	PN16	21,20A	2930rpm	1440	125	125	340	420	310	640	

1. With softstarter

3.1.5 HU3 DPVME2/4/6 DPC DOL

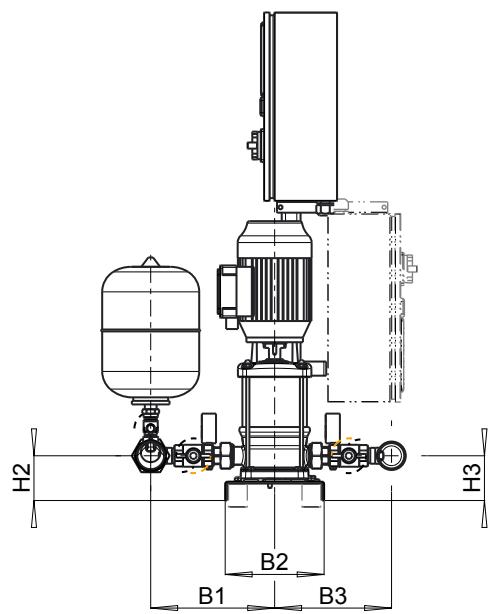
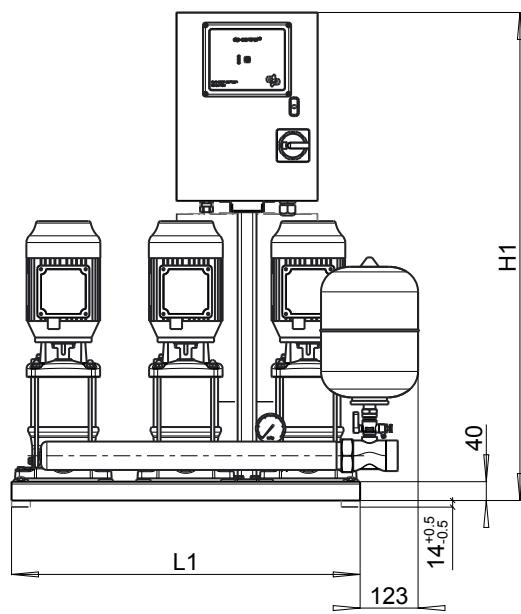
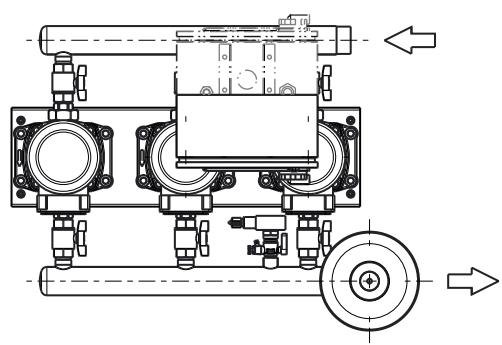


Figure 19: HU3 DPVME2/4/6 DPC

Table 16: General

Control	DPC DOL
Run dry protection	Pressure switch
Connection voltage	3x400V+N 50Hz
Insulation class	IP55
Max. fuse	25A
Membrane tank	Flow through type, 8 l
Drawing number	20131010

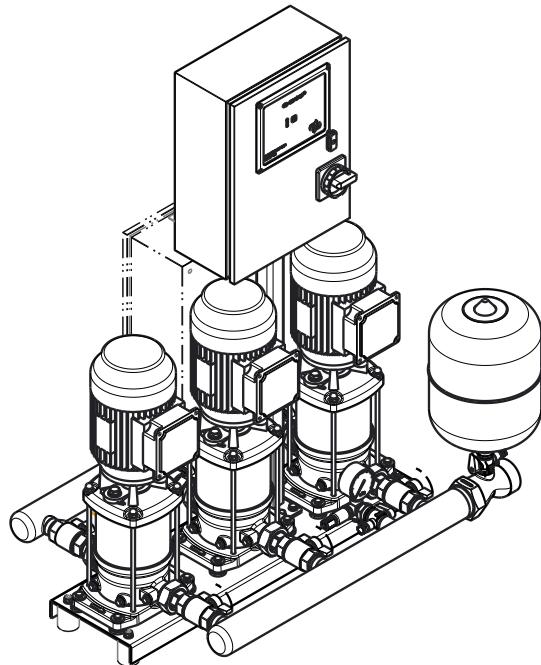


Figure 20: HU3 DPVME2/4/6 DPC

Table 17: Detailed

Article number	Number of stages	Fitting (material - connection)	Collecting pipe (material - connection)	Pressure class	I max installation	Pump speed	H1 [mm]	H2 [mm]	H3 [mm]	B1 [mm]	B2 [mm]	B3 [mm]	L1 [mm]	Mass [kg]
DPVME2														
HU312201D11Q	/2	MS G 1	AISI304 G 6/4	PN10	3,90A	2750rpm	1036	95	95	260	210	245	740	87
HU312301D11Q	/3	MS G 1	AISI304 G 6/4	PN10	3,90A	2750rpm	1036	95	95	260	210	245	740	88
HU312401D11Q	/4	MS G 1	AISI304 G 6/4	PN10	3,80A	2750rpm	1036	95	95	260	210	245	740	90
HU312501D11Q	/5	MS G 1	AISI304 G 6/4	PN10	3,80A	2750rpm	1036	95	95	260	210	245	740	91
HU312601D11Q	/6	MS G 1	AISI304 G 6/4	PN10	5,00A	2790rpm	1036	95	95	260	210	245	740	92
DPVME4														
HU314201D11Q	/2	MS G 1	AISI304 G 6/4	PN10	3,90A	2750rpm	1036	95	95	260	210	245	740	87
HU314301D11Q	/3	MS G 1	AISI304 G 6/4	PN10	5,00A	2790rpm	1036	95	95	260	210	245	740	89
HU314401D11Q	/4	MS G 1	AISI304 G 6/4	PN10	5,00A	2790rpm	1036	95	95	260	210	245	740	90
HU314501D11Q	/5	MS G 1	AISI304 G 6/4	PN10	6,20A	2875rpm	1036	95	95	260	210	245	740	108
HU314601D11Q	/6	MS G 1	AISI304 G 6/4	PN10	8,30A	2875rpm	1036	95	95	260	210	245	740	110
DPVME6														
HU316201E11Q	/2	MS G 1	AISI304 G 2	PN10	3,90A	2790rpm	1036	95	95	265	210	250	740	90
HU316301E11Q	/3	MS G 1	AISI304 G 2	PN10	6,40A	2875rpm	1036	95	95	265	210	250	740	109
HU316401E11Q	/4	MS G 1	AISI304 G 2	PN10	8,20A	2875rpm	1036	95	95	265	210	250	740	110
HU316501E11Q	/5	MS G 1	AISI304 G 2	PN10	8,30A	2875rpm	1036	95	95	265	210	250	740	111

3.1.6 HU3 DPVE2/4/6 DPC DOL

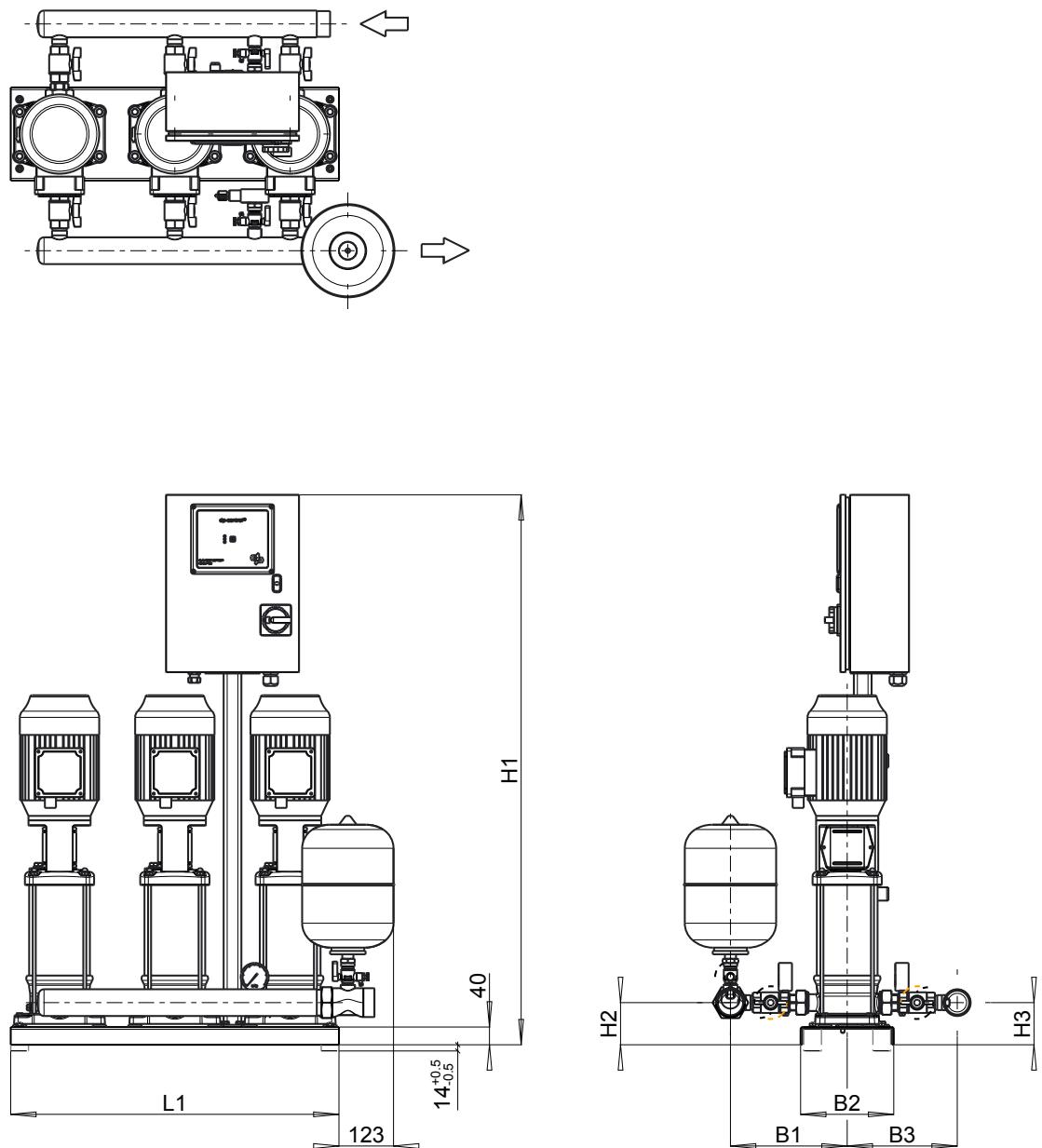


Figure 21: HU3 DPVE2/4/6 DPC

Table 18: General

Control	DPC DOL
Run dry protection	Pressure switch
Connection voltage	3x400V+N 50Hz
Insulation class	IP55
Max. fuse	25A
Membrane tank	Flow through type, 8 l
Drawing number	20131013

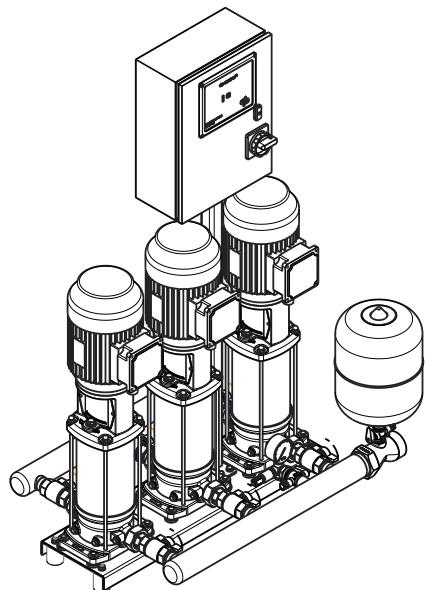


Figure 22: HU3 DPVE2/4/6 DPC

Table 19: Detailed

Article number	Number of stages	Fitting (material - connection)	Collecting pipe (material - connection)	Pressure class	I max installation	Pump speed	H1 [mm]	H2 [mm]	H3 [mm]	B1 [mm]	B2 [mm]	B3 [mm]	L1 [mm]	Mass [kg]
DPVE2														
HU322701D11Q	/7	MS G 1	AISI304 G 6/4	PN10	4,60A	2790rpm	1254	95	95	260	210	245	740	96
HU322801D11Q	/8	MS G 1	AISI304 G 6/4	PN10	4,60A	2790rpm	1254	95	95	260	210	245	740	97
HU322902D11Q	/9	MS G 1	AISI304 G 6/4	PN16	6,40A	2875rpm	1254	95	95	260	210	245	740	116
HU322A02D11Q	/10	MS G 1	AISI304 G 6/4	PN16	6,40A	2875rpm	1254	95	95	260	210	245	740	118
HU322B02D11Q	/11	MS G 1	AISI304 G 6/4	PN16	8,20A	2875rpm	1254	95	95	260	210	245	740	119
HU322C07D11Q	/12	MS G 1	AISI304 G 6/4	PN16	8,20A	2870rpm	1254	95	95	260	210	245	740	
HU322E07D11Q	/14	MS G 1	AISI304 G 6/4	PN16	8,20A	2870rpm	1454	95	95	260	210	245	740	
DPVE4														
HU324702D11Q	/7	MS G 1	AISI304 G 6/4	PN16	8,20A	2875rpm	1254	95	95	260	210	245	740	114
HU324802D11Q	/8	MS G 1	AISI304 G 6/4	PN16	10,90A	2900rpm	1254	95	95	260	210	245	740	133
HU324902D11Q	/9	MS G 1	AISI304 G 6/4	PN16	10,90A	2900rpm	1254	95	95	260	210	245	740	134
HU324A07D11Q	/10	MS G 1	AISI304 G 6/4	PN16	10,90A	2880rpm	1254	95	95	260	210	245	740	
HU324B07D11Q	/11	MS G 1	AISI304 G 6/4	PN16	15,10A	2870rpm	1454	95	95	260	210	245	740	
HU324C07D11Q	/12	MS G 1	AISI304 G 6/4	PN16	15,10A	2870rpm	1454	95	95	260	210	245	740	
DPVE6														
HU326601E11Q	/6	MS G 1	AISI304 G 2	PN10	10,90A	2900rpm	1254	95	95	265	210	250	740	132
HU326702E11Q	/7	MS G 1	AISI304 G 2	PN16	10,90A	2900rpm	1254	95	95	265	210	250	740	134
HU326802E11Q	/8	MS G 1	AISI304 G 2	PN16	15,10A	2900rpm	1254	95	95	265	210	250	740	138
HU326902E11Q	/9	MS G 1	AISI304 G 2	PN16	15,10A	2900rpm	1254	95	95	265	210	250	740	140
HU326A07E11Q	/10	MS G 1	AISI304 G 2	PN16	15,10A	2900rpm	1254	95	95	265	210	250	740	
HU326B07E12Q ¹	/11	MS G 1	AISI304 G 2	PN16	19,60A	2900rpm	1254	95	95	265	210	250	740	
HU326C07E12Q ¹	/12	MS G 1	AISI304 G 2	PN16	19,60A	2900rpm	1254	95	95	265	210	250	740	

1. With Softstarter

3.1.7 HU3 DPVE10 DPC DOL

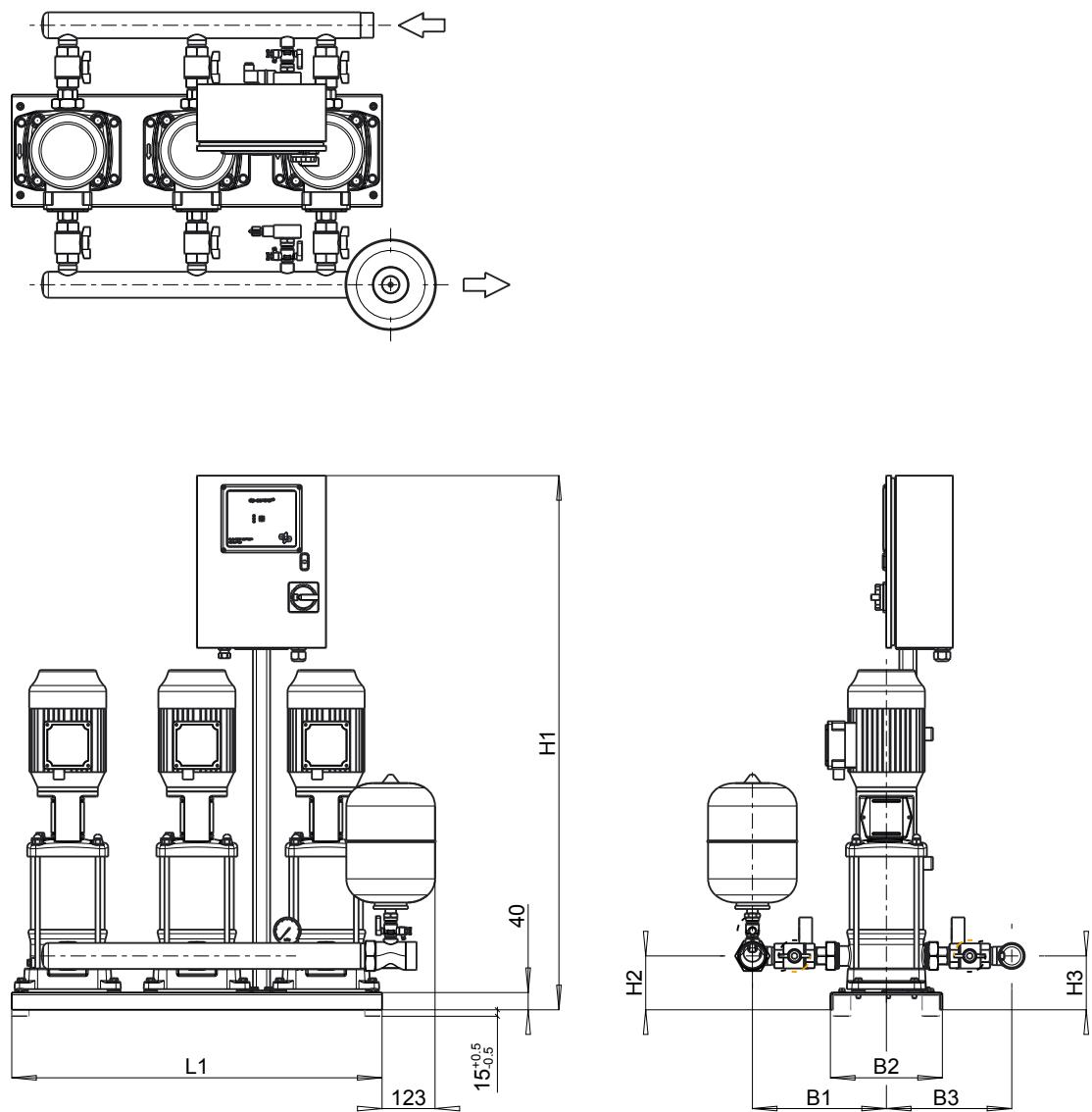


Figure 23: HU3 DPVE10 DPC

Table 20: General

Control	DPC DOL
Run dry protection	Pressure switch
Connection voltage	3x400V+N 50Hz
Insulation class	IP55
Max. fuse	25A
Membrane tank	Flow through type, 8 l
Drawing number	20131019

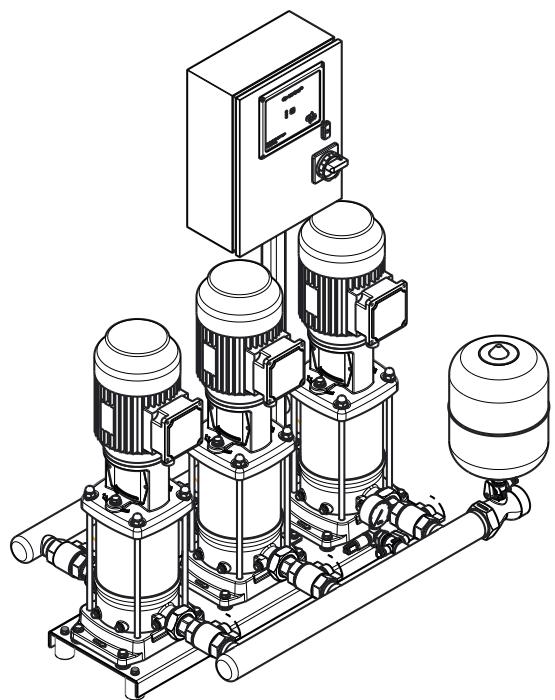


Figure 24: HU3 DPVE10 DPC

Table 21: Detailed

Article number	Number of stages	Fitting (material - connection)	Collecting pipe (material - connection)	Pressure class	I max installation	Pump speed	H1 [mm]	H2 [mm]	H3 [mm]	B1 [mm]	B2 [mm]	B3 [mm]	L1 [mm]	Mass [kg]
DPVE10														
HU32A201E11Q	/2	MS G 5/4	AISI304 G 2	PN10	6,40A	2850rpm	1240	125	125	315	260	295	860	136
HU32A301E11Q	/3	MS G 5/4	AISI304 G 2	PN10	8,20A	2850rpm	1240	125	125	315	260	295	860	153
HU32A401E11Q	/4	MS G 5/4	AISI304 G 2	PN10	10,90A	2850rpm	1240	125	125	315	260	295	860	166
HU32A501E11Q	/5	MS G 5/4	AISI304 G 2	PN10	15,10A	2850rpm	1240	125	125	315	260	295	860	179
HU32A602E11Q	/6	MS G 5/4	AISI304 G 2	PN16	15,10A	2850rpm	1240	125	125	315	260	295	860	191
HU32A707E12Q ¹	/7	MS G 5/4	AISI304 G 2	PN16	19,60A	2905rpm	1240	125	125	315	260	295	860	
HU32A807E12Q ¹	/8	MS G 5/4	AISI304 G 2	PN16	19,60A	2905rpm	1240	125	125	315	260	295	860	
HU32A907E12Q ¹	/9	MS G 5/4	AISI304 G 2	PN16	24,10A	2915rpm	1240	125	125	315	260	295	860	
HU32AA07E12Q ¹	/10	MS G 5/4	AISI304 G 2	PN16	24,10A	2915rpm	1240	125	125	315	260	295	860	

1. With Softstarter

3.1.8 HU3 DPVE15 DPC DOL

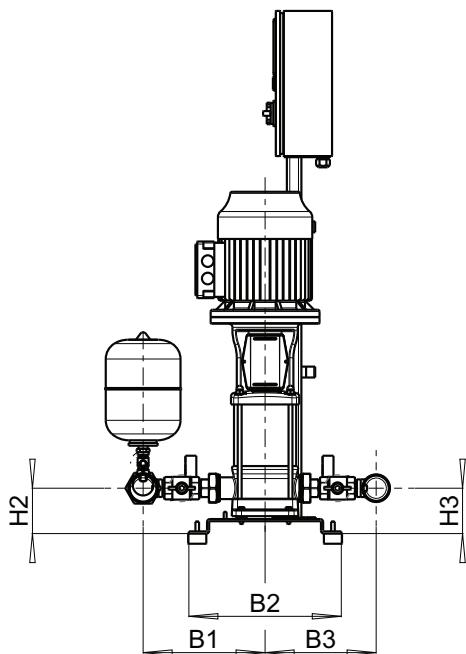
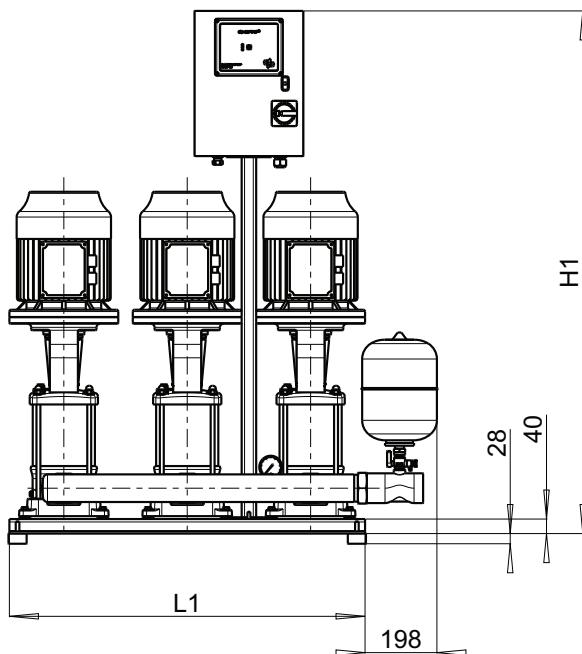
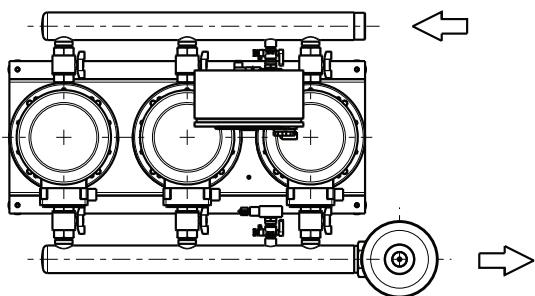


Figure 25: HU3 DPVE15 DPC

Table 22: General

Control	DPC DOL/SFT
Run dry protection	Pressure switch
Connection voltage	3x400V+N 50Hz
Insolation class	IP55
Max. fuse	25A
Membrane tank	Flow through type, 8 l
Drawing number	20150034

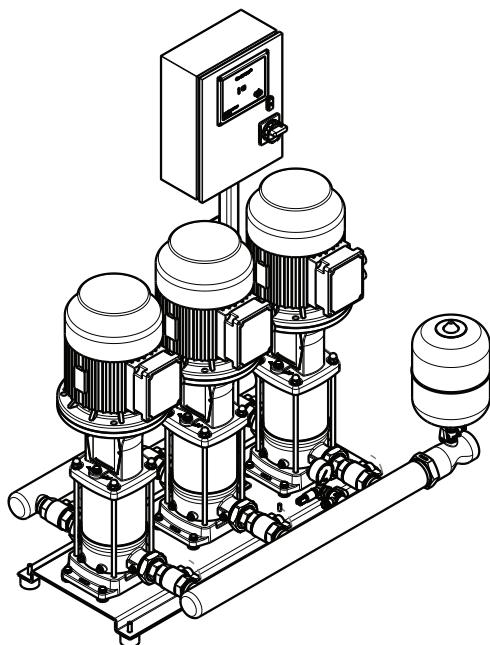


Figure 26: HU3 DPVE15 DPC

Table 23: Detailed

Article number	Number of stages	Fitting (material - connection)	Collecting pipe (material - connection)	Pressure class	I max installation	Pump speed	H1 [mm]	H2 [mm]	H3 [mm]	B1 [mm]	B2 [mm]	B3 [mm]	L1 [mm]	Mass [kg]
DPVE15														
HU32B207K11Q	/2	MS G 6/4	AISI304 G 5/2	PN10	15,10A	2870rpm	1240	125	125	340	420	310	980	
HU32B307K12Q ¹	/3	MS G 6/4	AISI304 G 5/2	PN10	19,60A	2905rpm	1240	125	125	340	420	310	980	
HU32B407K12Q ¹	/4	MS G 6/4	AISI304 G 5/2	PN10	24,10A	2915rpm	1240	125	125	340	420	310	980	
HU32B507K12Q ¹	/5	MS G 6/4	AISI304 G 5/2	PN16	31,30A	2930rpm	1240	125	125	340	420	310	980	
HU32B607K12Q ¹	/6	MS G 6/4	AISI304 G 5/2	PN16	31,30A	2930rpm	1240	125	125	340	420	310	980	

1. With softstarter

3.1.9 Specification text

All DP-Pumps booster sets comply with the NEN1006 (NL) standard and have been constructed as described in the water worksheets (NL)

Consisting of:

- two or three DPV(M)E vertical multi-stage centrifugal pumps, with an European drinking water approval, including an integrated non-return valve of which all metal parts that come into contact with the medium have been made of AISI304
- four or six nickel-plated brass ball valves, with a special ball for flushing the inside of the ball valve
- AISI304 manifolds, one side closed
- run dry protection set consisting of a pressure switch (20 kPa ON, 110 kPa reset), pressure gauge and a drain valve
- discharge pressure control set consisting of a pressure transmitter (4-20 mA/0-1000kPa or 4-20mA/0-2500kPa), pressure gauge and a drain valve.
- both pressure sets are connected to the manifold via a flow through valve
- a flow through membrane tank, mounted on a special flow through T-piece

The booster-set is equipped with a switch box with the DP-Control control system. The switch-box is by default equipped with the following failure contacts:

- tensionless contact "urgent" (red LED)
- tensionless contact "not urgent" (orange LED)

3.2 Dimensions and weights HU HR booster sets

3.2.1 HU2 DPVME2/4/6 HR

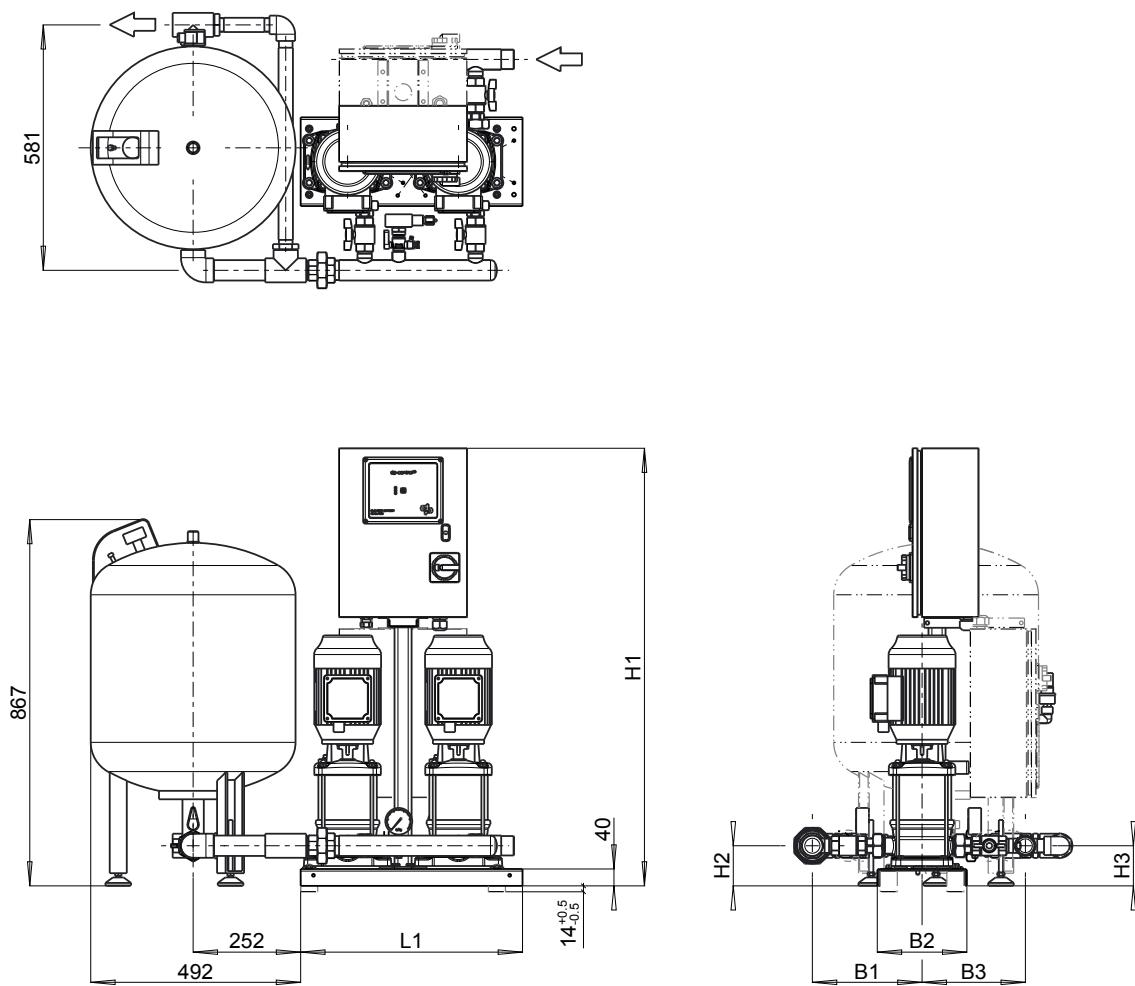


Figure 27: HU2 DPVME2/4/6 DPC HR with 100 l membrane tank including a diaphragm rupture detector

Table 24: General

Control	DPC DOL HR
Run dry protection	Pressure switch
Connection voltage	3x400V+N 50Hz
Insolation class	IP55
Max. fuse	25A
Membrane tank	Flow through type, 100 l including a diaphragm rupture detector
Drawing number	20131005

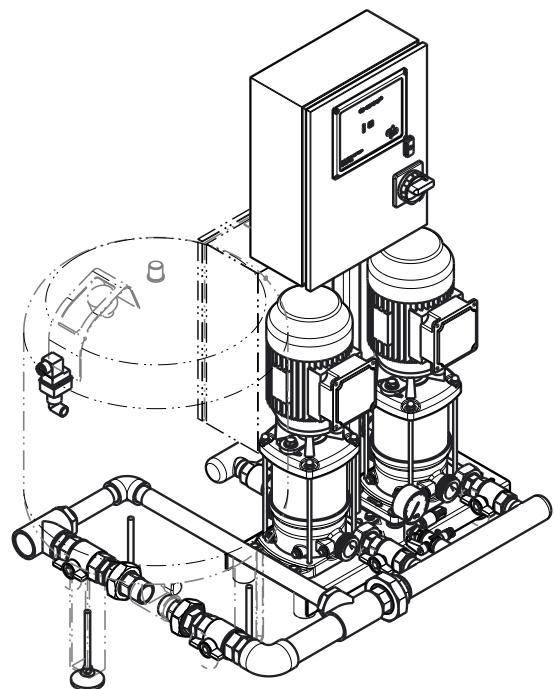


Figure 28: HU2 DPVME2/4/6 DPC HR

Table 25: Detailed

Article number	Number of stages	Fitting (material - connection)	Collecting pipe (material - connection)	Pressure class	I max installation	Pump speed	H1 [mm]	H2 [mm]	H3 [mm]	B1 [mm]	B2 [mm]	B3 [mm]	L1 [mm]	Mass [kg]
DPVME2														
HU212201D21Q	/2	MS G 1	AISI304 G 6/4	PN10	2,90A	2750rpm	1036	95	95	260	210	245	480	85
HU212301D21Q	/3	MS G 1	AISI304 G 6/4	PN10	2,90A	2750rpm	1036	95	95	260	210	245	480	85
HU212401D21Q	/4	MS G 1	AISI304 G 6/4	PN10	2,90A	2750rpm	1036	95	95	260	210	245	480	86
HU212501D21Q	/5	MS G 1	AISI304 G 6/4	PN10	2,90A	2750rpm	1036	95	95	260	210	245	480	87
HU212601D21Q	/6	MS G 1	AISI304 G 6/4	PN10	3,70A	2790rpm	1036	95	95	260	210	245	480	88
DPVME4														
HU214201D21Q	/2	MS G 1	AISI304 G 6/4	PN10	2,90A	2750rpm	1036	95	95	260	210	245	480	85
HU214301D21Q	/3	MS G 1	AISI304 G 6/4	PN10	3,70A	2790rpm	1036	95	95	260	210	245	480	86
HU214401D21Q	/4	MS G 1	AISI304 G 6/4	PN10	3,70A	2790rpm	1036	95	95	260	210	245	480	86
HU214501D21Q	/5	MS G 1	AISI304 G 6/4	PN10	4,40A	2875rpm	1036	95	95	260	210	245	480	99
HU214601D21Q	/6	MS G 1	AISI304 G 6/4	PN10	5,90A	2875rpm	1036	95	95	260	210	245	480	100
DPVME6														
HU216201D21Q	/2	MS G 1	AISI304 G 6/4	PN10	2,90A	2790rpm	1036	95	95	260	210	245	480	86
HU216301D21Q	/3	MS G 1	AISI304 G 6/4	PN10	4,60A	2875rpm	1036	95	95	260	210	245	480	99
HU216401D21Q	/4	MS G 1	AISI304 G 6/4	PN10	5,80A	2875rpm	1036	95	95	260	210	245	480	100
HU216501D21Q	/5	MS G 1	AISI304 G 6/4	PN10	5,90A	2875rpm	1036	95	95	260	210	245	480	100

3.2.2 HU2 DPVE2/4/6 HR

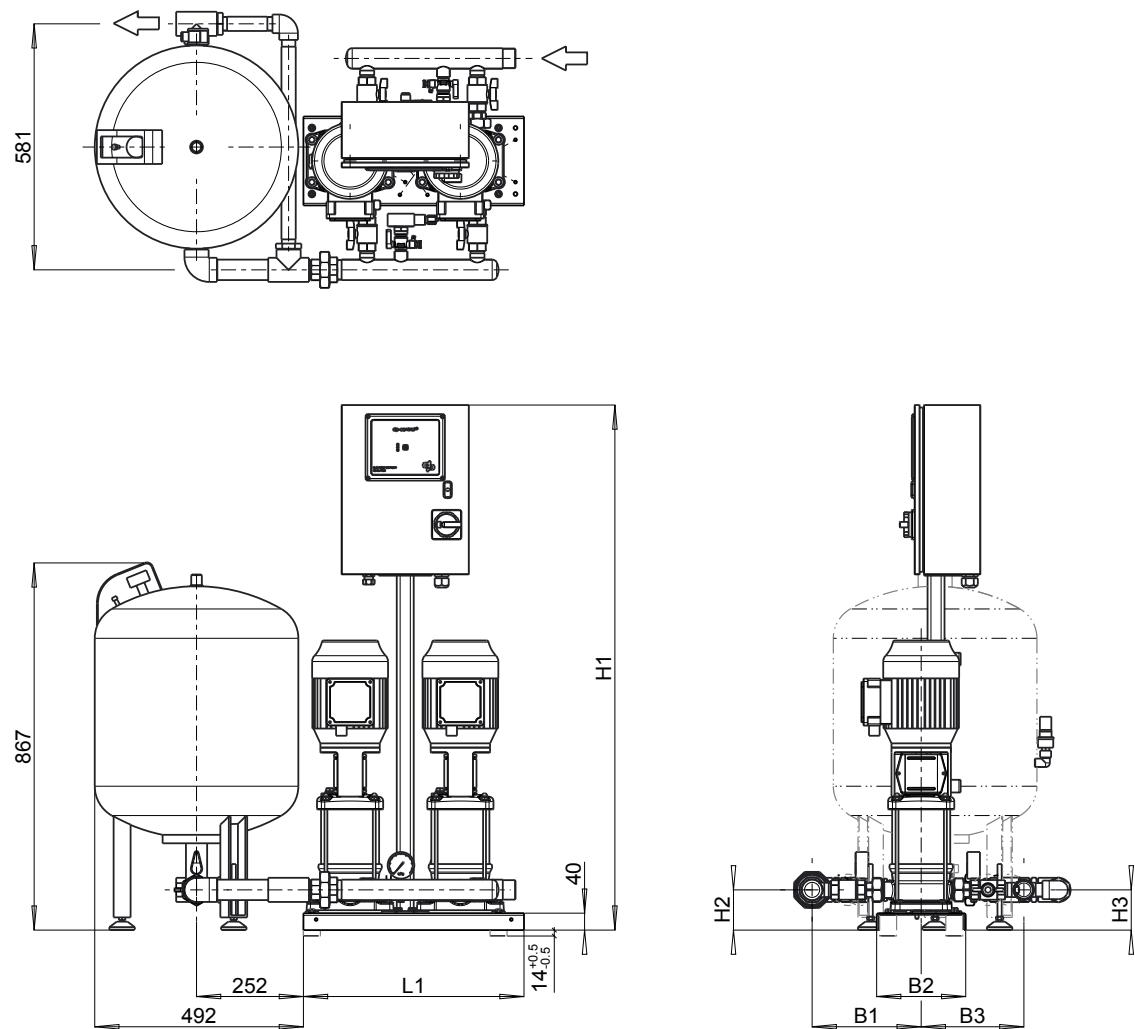


Figure 29: HU2 DPVME2/4/6 DPC HR with 100 l membrane tank including a diaphragm rupture detector

Table 26: General

Control	DPC DOL HR
Run dry protection	Pressure switch
Connection voltage	3x400V+N 50Hz
Insolation	IP55
Max. fuse	25A
Membrane tank	Flow through type, 100 l including a diaphragm rupture detector
Drawing number	20131008

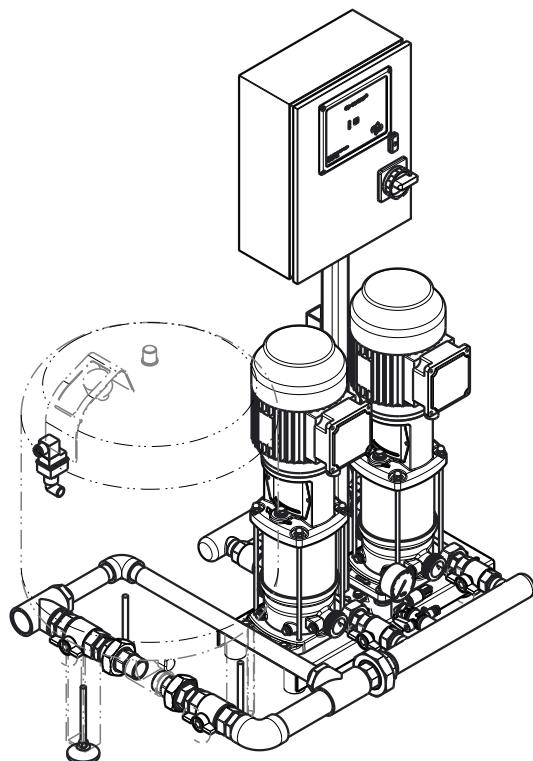


Figure 30: HU2 DPVE2/4/6 DPC HR

Table 27: Detailed

Article number	Number of stages	Fitting (material - connection)	Collecting pipe (material - connection)	Pressure class	I max installation	Pump speed	H1 [mm]	H2 [mm]	H3 [mm]	B1 [mm]	B2 [mm]	B3 [mm]	L1 [mm]	Mass [kg]
DPVE2														
HU222701D21Q	/7	MS G 1	AISI304 G 6/4	PN10	3,40A	2790rpm	1254	95	95	260	210	245	480	90
HU222801D21Q	/8	MS G 1	AISI304 G 6/4	PN10	3,40A	2790rpm	1254	95	95	260	210	245	480	91
DPVE6														
HU226601D21Q	/6	MS G 1	AISI304 G 6/4	PN10	7,60A	2900rpm	1254	95	95	260	210	245	480	114

3.2.3 HU2 DPVE10 HR

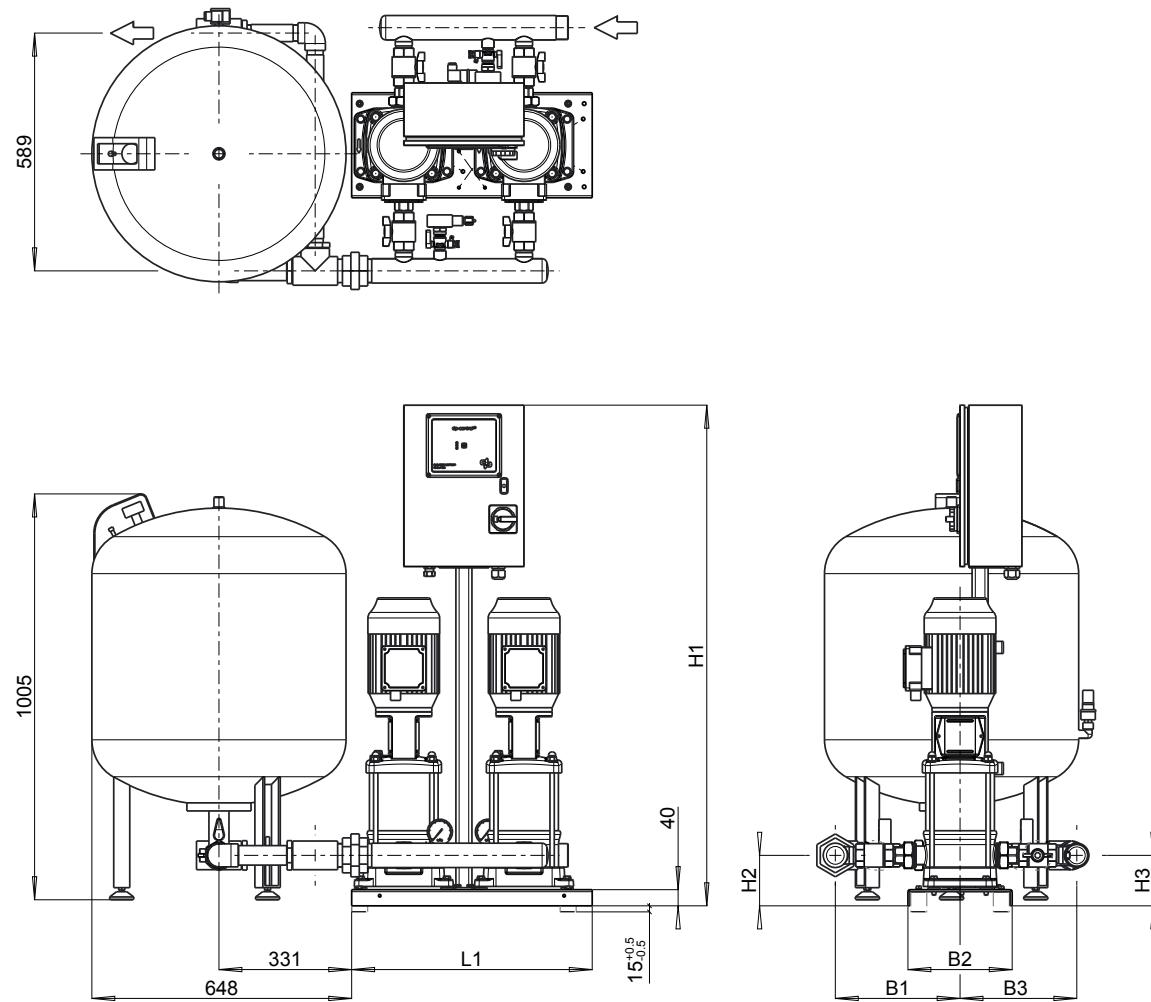


Figure 31: HU2 DPVE10 PN10 DPC HR with 200 l membrane tank including a diaphragm rupture detector

Table 28: General

Control	DPC DOL HR
Run dry protection	Pressure Switch
Connection voltage	3x400V+N 50Hz
Insulation class	IP55
Max. fuse	25A
Membrane tank	Flow through type, 200 l including a diaphragm rupture detector
Drawing number	20131017

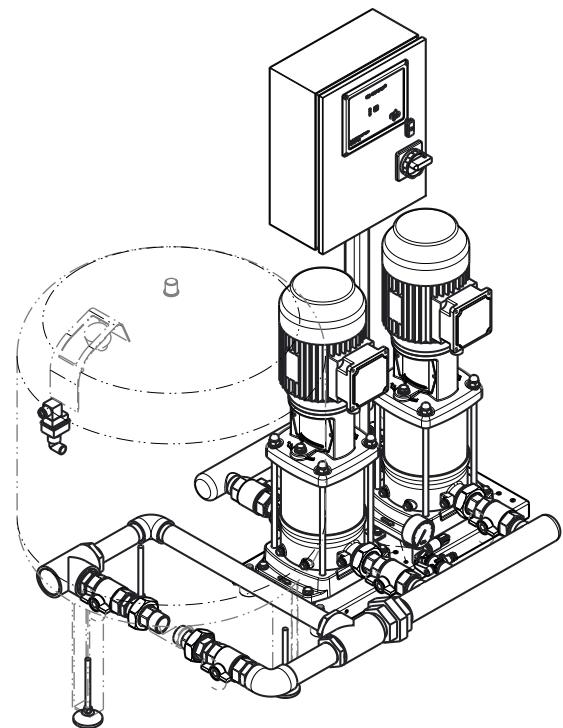


Figure 32: HU2 DPVE10 DPC HR

Table 29: Detailed

Article number	Number of stages	Fitting (material - connection)	Collecting pipe (material - connection)	Pressure class	I max installation	Pump speed	H1 [mm]	H2 [mm]	H3 [mm]	B1 [mm]	B2 [mm]	B3 [mm]	L1 [mm]	Mass [kg]
DPVE10														
HU22A201E21Q	/2	MS G 5/4	AISI304 G 2	PN10	4,60A	2850rpm	1240	125	125	315	260	295	560	140
HU22A301E21Q	/3	MS G 5/4	AISI304 G 2	PN10	5,80A	2850rpm	1240	125	125	315	260	295	560	151
HU22A401E21Q	/4	MS G 5/4	AISI304 G 2	PN10	7,60A	2850rpm	1240	125	125	315	260	295	560	160
HU22A501E21Q	/5	MS G 5/4	AISI304 G 2	PN10	10,40A	2850rpm	1240	125	125	315	260	295	560	168

3.2.4 HU3 DPVME2/4/6 HR

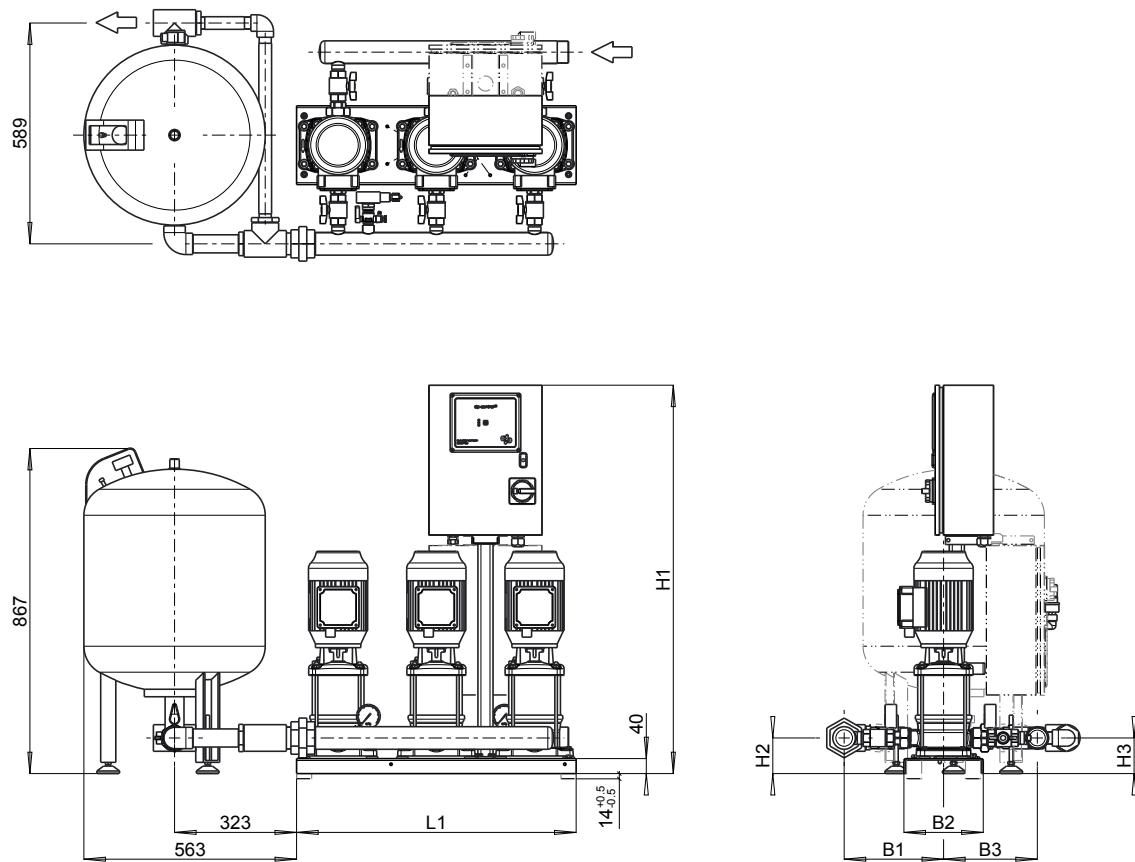


Figure 33: HU3 DPVME2/4/6 DPC HR with 100 l membrane tank including a diaphragm rupture detector

Table 30: General

Control	DPC DOL HR
Run dry protection	Pressure switch
Connection voltage	3x400V+N 50Hz
Insolation class	IP55
Max. fuse	25A
Membrane tank	Flow through type, 100 l including a diaphragm rupture detector
Drawing number	20131011

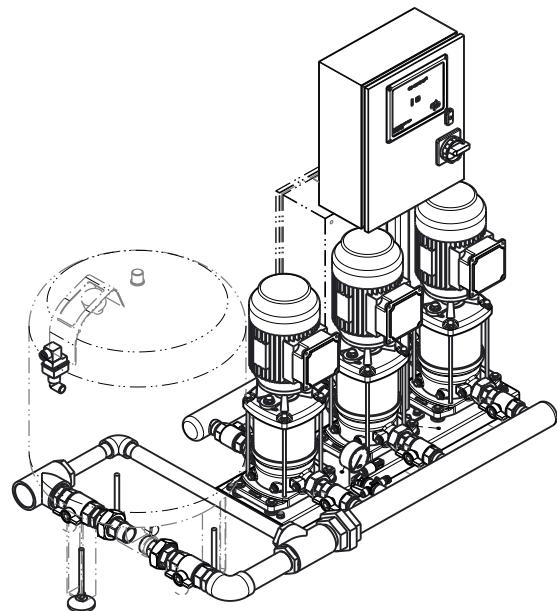


Figure 34: HU3 DPVME2/4/6 DPC HR

Table 31: Detailed

Article number	Number of stages	Fitting (material - connection)	Collecting pipe (material - connection)	Pressure class	I max installation	Pump speed	H1 [mm]	H2 [mm]	H3 [mm]	B1 [mm]	B2 [mm]	B3 [mm]	L1 [mm]	Mass [kg]
DPVME2														
HU312201D21Q	/2	MS G 1	AISI304 G 6/4	PN10	3,90A	2750rpm	1036	95	95	260	210	245	740	107
HU312301D21Q	/3	MS G 1	AISI304 G 6/4	PN10	3,90A	2750rpm	1036	95	95	260	210	245	740	108
HU312401D21Q	/4	MS G 1	AISI304 G 6/4	PN10	3,80A	2750rpm	1036	95	95	260	210	245	740	110
HU312501D21Q	/5	MS G 1	AISI304 G 6/4	PN10	3,80A	2750rpm	1036	95	95	260	210	245	740	111
HU312601D21Q	/6	MS G 1	AISI304 G 6/4	PN10	5,00A	2790rpm	1036	95	95	260	210	245	740	112
DPVME4														
HU314201D21Q	/2	MS G 1	AISI304 G 6/4	PN10	3,90A	2750rpm	1036	95	95	260	210	245	740	107
HU314301D21Q	/3	MS G 1	AISI304 G 6/4	PN10	5,00A	2790rpm	1036	95	95	260	210	245	740	109
HU314401D21Q	/4	MS G 1	AISI304 G 6/4	PN10	5,00A	2790rpm	1036	95	95	260	210	245	740	110
HU314501D21Q	/5	MS G 1	AISI304 G 6/4	PN10	6,20A	2875rpm	1036	95	95	260	210	245	740	128
HU314601D21Q	/6	MS G 1	AISI304 G 6/4	PN10	8,30A	2875rpm	1036	95	95	260	210	245	740	130
DPVME6														
HU316201E21Q	/2	MS G 1	AISI304 G 2	PN10	3,90A	2790rpm	1036	95	95	265	210	250	740	115
HU316301E21Q	/3	MS G 1	AISI304 G 2	PN10	6,40A	2875rpm	1036	95	95	265	210	250	740	134
HU316401E21Q	/4	MS G 1	AISI304 G 2	PN10	8,20A	2875rpm	1036	95	95	265	210	250	740	135
HU316501E21Q	/5	MS G 1	AISI304 G 2	PN10	8,30A	2875rpm	1036	95	95	265	210	250	740	136

3.2.5 HU3 DPVE2/4/6 HR

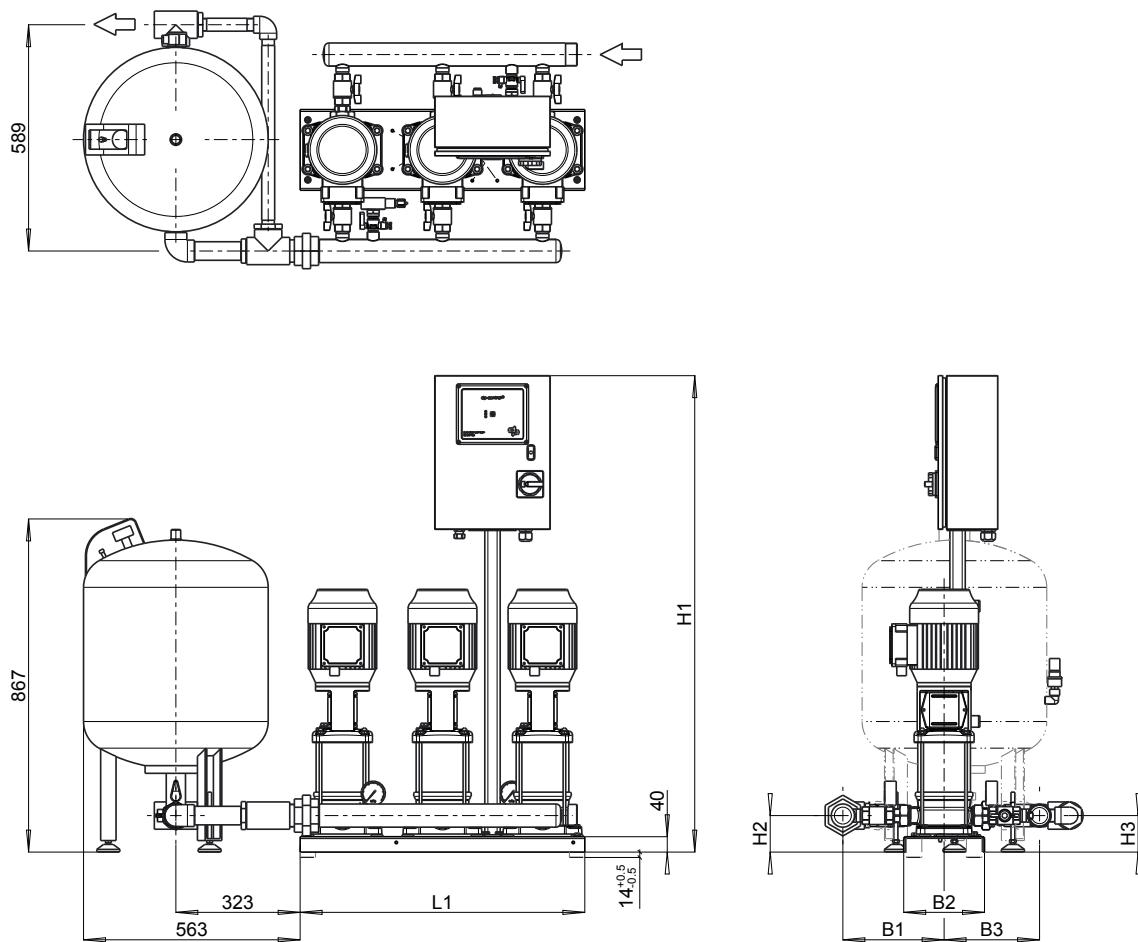


Figure 35: HU3 DPVE2/4/6 DPC HR with 100 l membrane tank including a diaphragm rupture detector

Table 32: General

Control	DPC DOL HR
Run dry protection	Pressure switch
Connection voltage	3x400V+N 50Hz
Insulation class	IP55
Max. fuse	25A
Membrane tank	Flow through type, 100 l including a diaphragm rupture detector
Drawing number	20131014

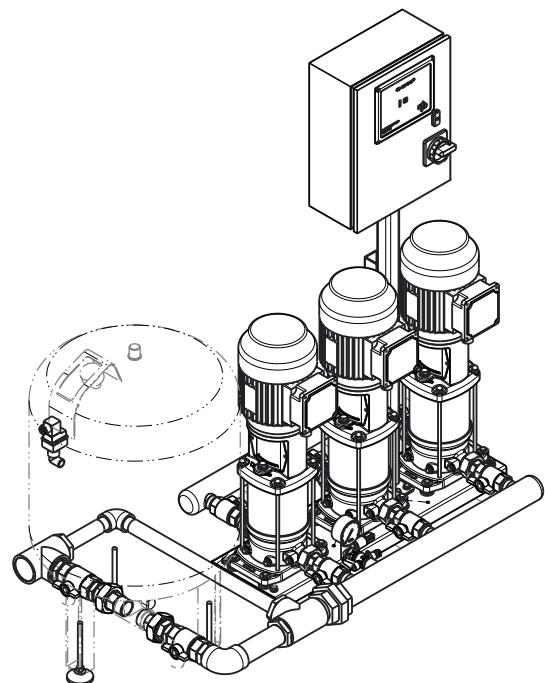


Figure 36: HU3 DPVE2/4/6 DPC HR

Table 33: Detailed

Article number	Number of stages	Fitting (material - connection)	Collecting pipe (material - connection)	Pressure class	I max installation	Pump speed	H1 [mm]	H2 [mm]	H3 [mm]	B1 [mm]	B2 [mm]	B3 [mm]	L1 [mm]	Mass [kg]
DPVE2														
HU322701D21Q	/7	MS G 1	AISI304 G 6/4	PN10	4,60A	2790rpm	1254	95	95	260	210	245	740	116
HU322801D21Q	/8	MS G 1	AISI304 G 6/4	PN10	4,60A	2790rpm	1254	95	95	260	210	245	740	117
DPVE6														
HU326601E21Q	/6	MS G 1	AISI304 G 2	PN10	10,90A	2900rpm	1254	95	95	265	210	250	740	157

3.2.6 HU3 DPVE10 HR

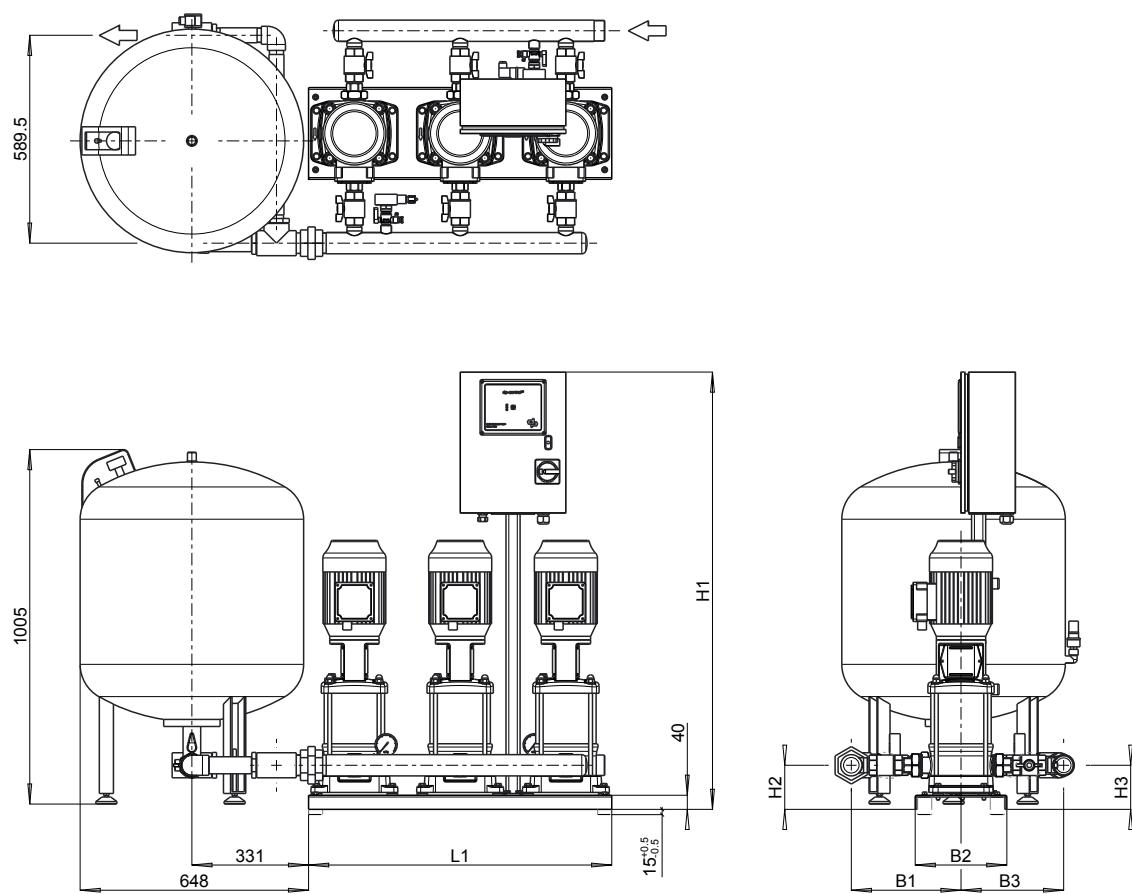


Figure 37: HU3 DPVE10 DPC HR with 200 l membrane tank including a diaphragm rupture detector

Table 34: General

Control	DPC DOL HR
Run dry protection	Pressure switch
Connection voltage	3x400V+N 50Hz
Insulation class	IP55
Max. fuse	25A
Membrane tank	Flow through type, 200 l including a diaphragm rupture detector
Drawing number	20131020

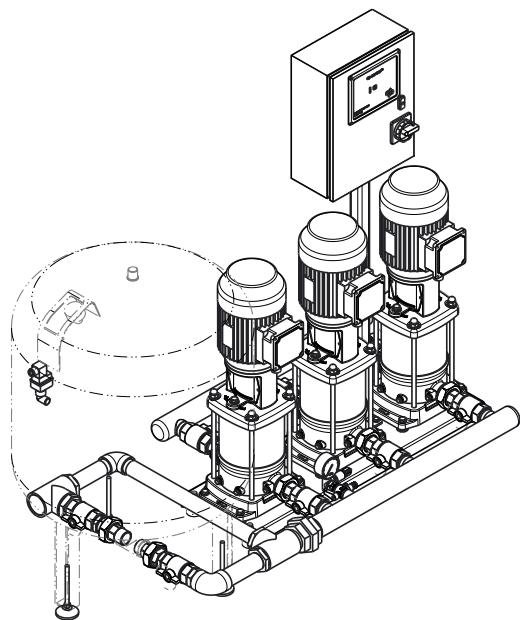


Figure 38: HU3 DPVE10 DPC HR

Table 35: Detailed

Article number	Number of stages	Fitting (material - connection)	Collecting pipe (material - connection)	Pressure class	I max installation	Pump speed	H1 [mm]	H2 [mm]	H3 [mm]	B1 [mm]	B2 [mm]	B3 [mm]	L1 [mm]	Mass [kg]
DPVE10														
HU32A201E21Q	/2	MS G 5/4	AISI304 G 2	PN10	6,40A	2850rpm	1240	125	125	315	260	295	860	179
HU32A301E21Q	/3	MS G 5/4	AISI304 G 2	PN10	8,20A	2850rpm	1240	125	125	315	260	295	860	196
HU32A401E21Q	/4	MS G 5/4	AISI304 G 2	PN10	10,90A	2850rpm	1240	125	125	315	260	295	860	209
HU32A501E21Q	/5	MS G 5/4	AISI304 G 2	PN10	15,10A	2850rpm	1240	125	125	315	260	295	860	221

3.2.7 Specification text

All DP-Pumps booster-set comply with the NEN1006 (NL) standard and have been constructed as described in the water worksheets (NL)

Consisting of:

- two or three DPV(M)E vertical multi-stage centrifugal pumps, with an European drinking water approval, including an integrated non-return valve of which all metal parts that come into contact with the medium have been made of AISI304
- four or six nickel-plated brass ball valves, with a special ball for flushing the inside of the ball valve
- AISI304 manifolds, one side closed
- run dry protection set consisting of a pressure switch (20 kPa ON, 110 kPa reset), pressure gauge and a drain valve
- discharge pressure control set consisting of a pressure transmitter (4-20 mA/0-1000kPa), pressure gauge and a drain valve.
- a flow through membrane tank for the mechanical running on time with a volume of 100 litres or 200 litres including a diaphragm rupture detector

The booster-set is equipped with a switch box with the DP-Control control system. The switch-box is by default equipped with the following failure contacts:

- tensionless contact "urgent" (red LED)
- tensionless contact "not urgent" (orange LED)

3.3 Dimensions and weights HU FR booster sets

3.3.1 HU2 DPVME2/4/6 MCMF

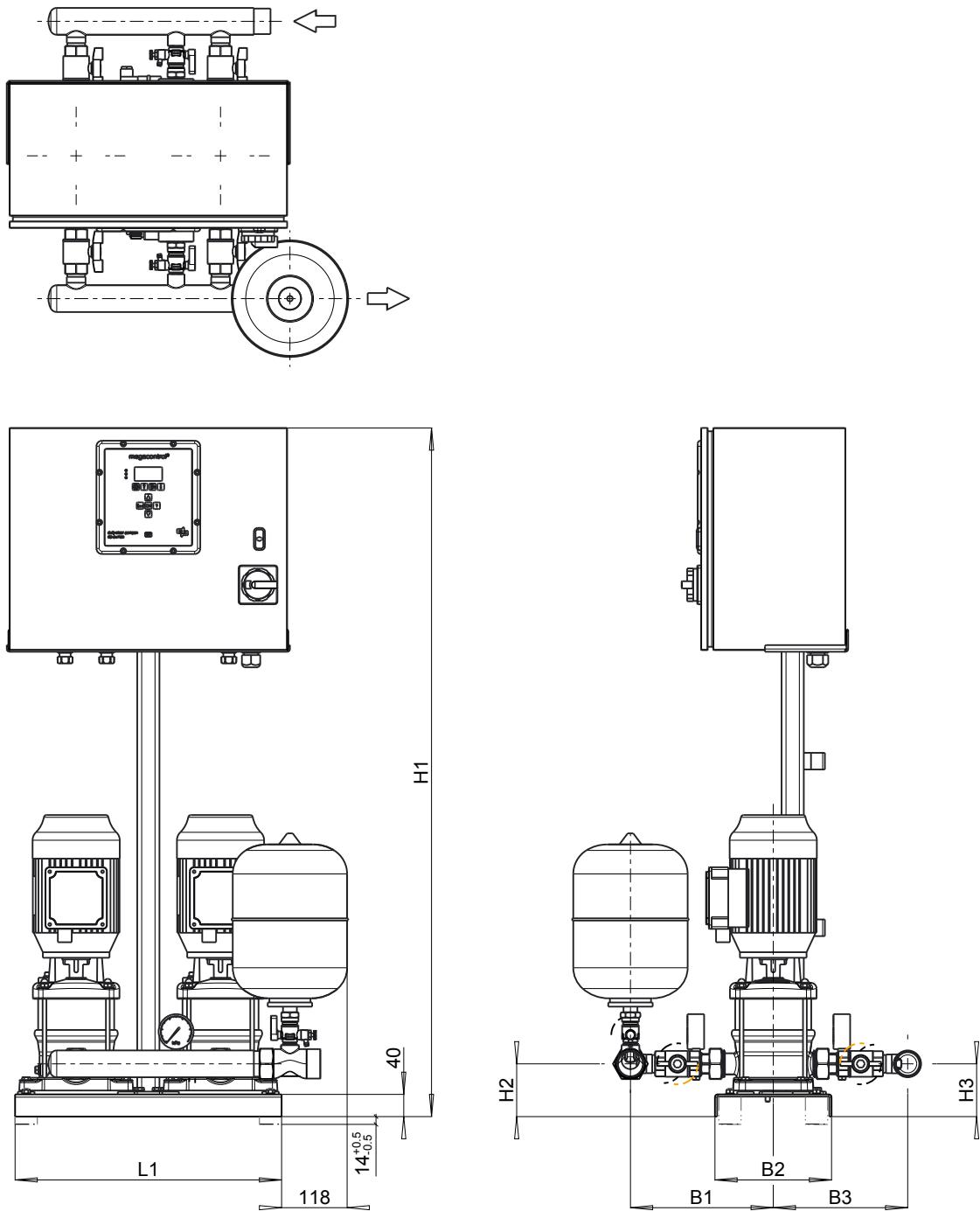


Figure 39: HU2 DPVME2/4/6 MCMF

Table 36: General

Control	MCMF 60Hz
Run dry protection	Pressure switch
Connection voltage	3x400V+N 50Hz/60Hz
Insulation class	IP55
Max. fuse	25A
Membrane tank	Flow through type, 8 l
Drawing number	20131006

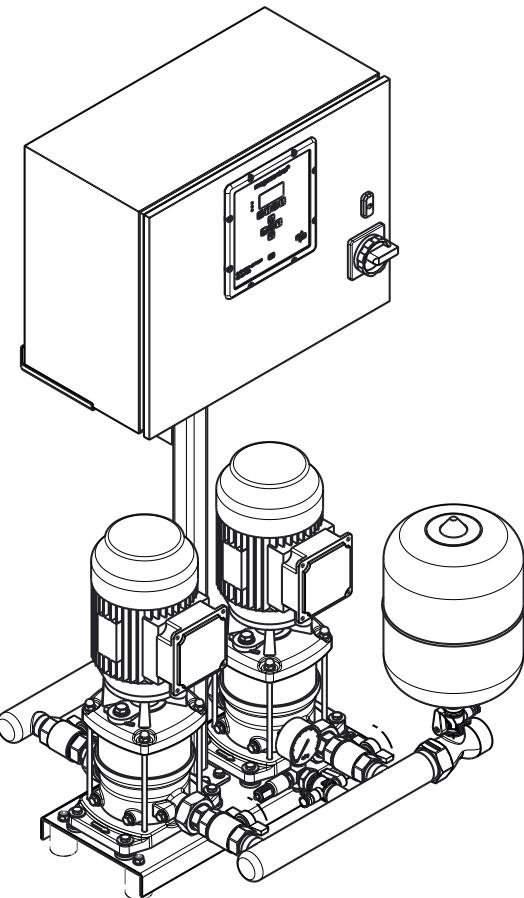


Figure 40: HU2 DPVME2/4/6 MCMF

Table 37: Detailed

Article number	Number of stages	Fitting (material - connection)	Collecting pipe (material - connection)	Pressure class	I max installation	Pump speed	H1 [mm]	H2 [mm]	H3 [mm]	B1 [mm]	B2 [mm]	B3 [mm]	L1 [mm]	Mass [kg]
DPVME2														
HU212201D64Q	/2	MS G 1	AISI304 G 6/4	PN10	12,60A	3300rpm	1254	95	95	260	210	245	480	76
HU212301D64Q	/3	MS G 1	AISI304 G 6/4	PN10	12,60A	3300rpm	1254	95	95	260	210	245	480	77
HU212401D64Q	/4	MS G 1	AISI304 G 6/4	PN10	12,60A	3345rpm	1254	95	95	260	210	245	480	78
HU212501D64Q	/5	MS G 1	AISI304 G 6/4	PN10	12,60A	3450rpm	1254	95	95	260	210	245	480	90
HU212602D64Q	/6	MS G 1	AISI304 G 6/4	PN16	12,60A	3450rpm	1254	95	95	260	210	245	480	91
DPVME4														
HU214201D64Q	/2	MS G 1	AISI304 G 6/4	PN10	12,60A	3345rpm	1254	95	95	260	210	245	480	76
HU214301D64Q	/3	MS G 1	AISI304 G 6/4	PN10	12,60A	3450rpm	1254	95	95	260	210	245	480	89
HU214401D64Q	/4	MS G 1	AISI304 G 6/4	PN10	12,80A	3450rpm	1254	95	95	260	210	245	480	89
DPVME6														
HU216201D64Q	/2	MS G 1	AISI304 G 6/4	PN10	12,60A	3450rpm	1254	95	95	260	210	245	480	89
HU216301D64Q	/3	MS G 1	AISI304 G 6/4	PN10	12,80A	3450rpm	1254	95	95	260	210	245	480	90

3.3.2 HU2 DPVE2/4/6 MCMF

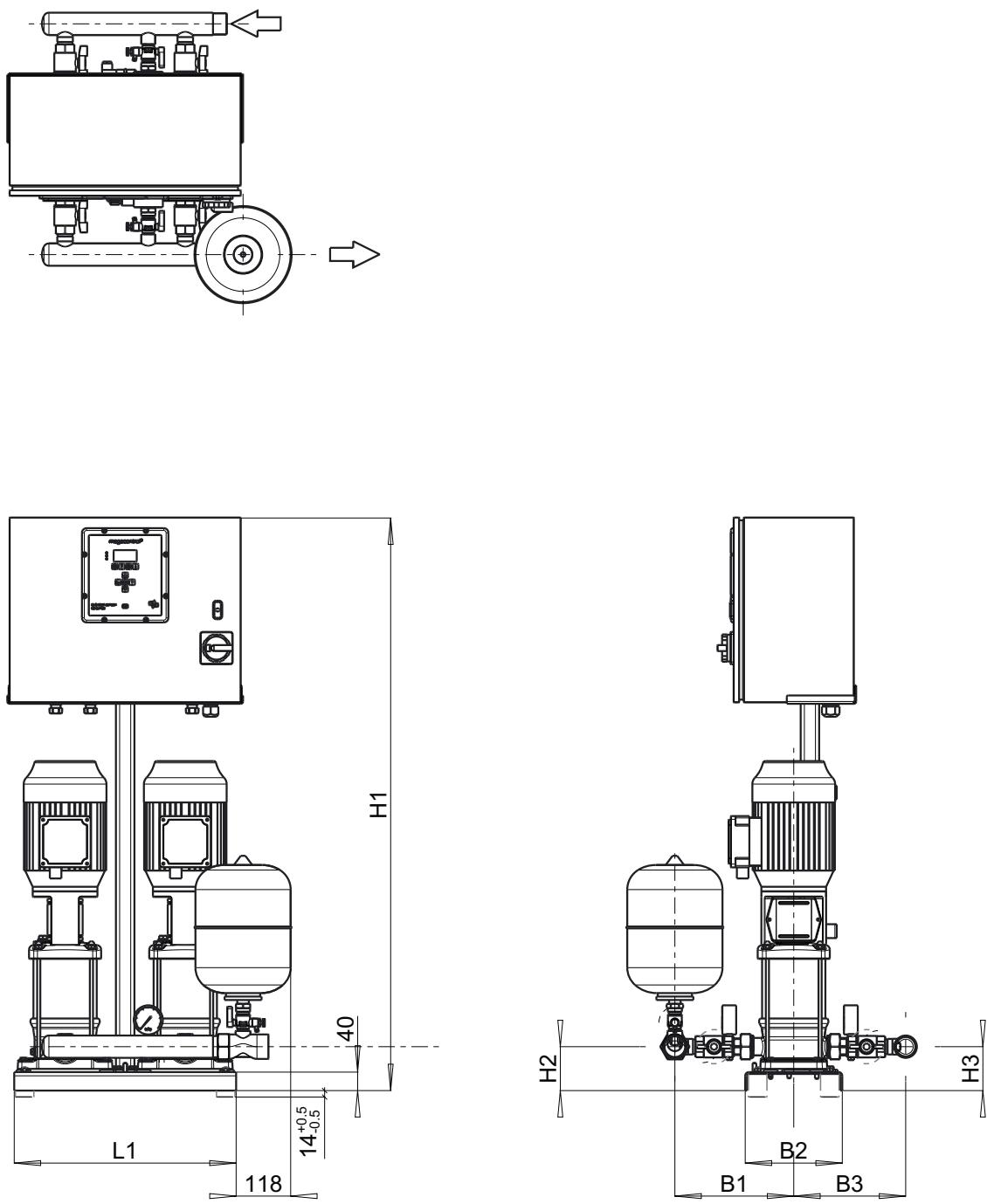


Figure 41: HU2 DPVE2/4/6 MCMF

20150687

Table 38: General

Control	MCMF 60Hz
Run dry protection	Pressure switch
Connection voltage	3x400V+N 50Hz/60Hz
Insulation class	IP55
Max. fuse	25A
Membrane tank	Flow through type, 8 l
Drawing number	20150687

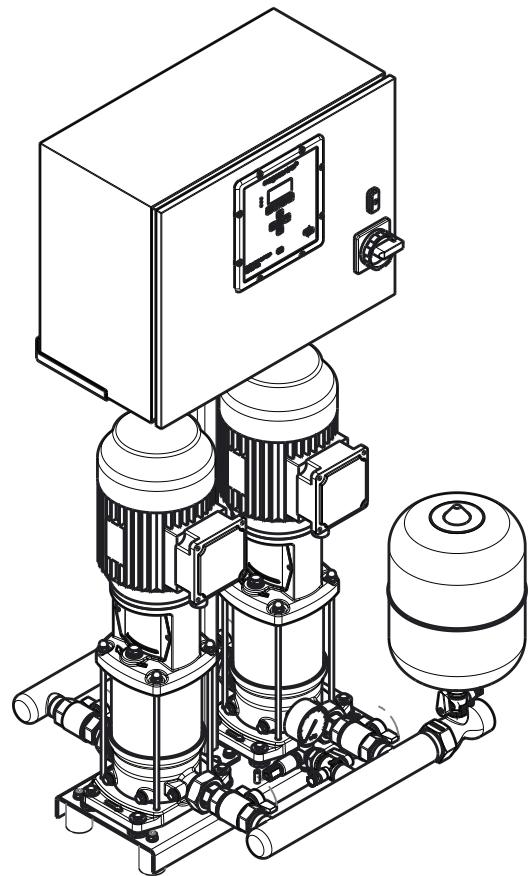


Figure 42: HU2 DPVE2/4/6 MCMF

Table 39: Detailwaarden

Article number	Number of stages	Fitting (material - connection)	Collecting pipe (material - connection)	Pressure class	I max installation	Pump speed	H1 [mm]	H2 [mm]	H3 [mm]	B1 [mm]	B2 [mm]	B3 [mm]	L1 [mm]	Mass [kg]
DPVE2														
HU222702D64Q	/7	MS G 1	AISI304 G 6/4	PN16	12,60A	3450rpm	1254	95	95	260	210	245	480	95
HU222807D64Q	/8	MS G 1	AISI304 G 6/4	PN16	12,60A	3450rpm	1254	95	95	260	210	245	480	
HU222807D64Q	/9	MS G 1	AISI304 G 6/4	PN16	12,60A	3450rpm	1254	95	95	260	210	245	480	
HU222807D64Q	/10	MS G 1	AISI304 G 6/4	PN16	12,80A	3480rpm	1254	95	95	260	210	245	480	
DPVE4														
HU224502D64Q	/5	MS G 1	AISI304 G 6/4	PN16	12,80A	3480rpm	1254	95	95	260	210	245	480	106
HU224602D64Q	/6	MS G 1	AISI304 G 6/4	PN16	12,80A	3480rpm	1254	95	95	260	210	245	480	107
HU224707D64Q	/7	MS G 1	AISI304 G 6/4	PN16	18,00A	3480rpm	1254	95	95	260	210	245	480	
HU224807D64Q	/8	MS G 1	AISI304 G 6/4	PN16	18,00A	3480rpm	1254	95	95	260	210	245	480	
DPVE6														
HU226401D64Q	/4	MS G 1	AISI304 G 6/4	PN10	12,80A	3480rpm	1254	95	95	260	210	245	480	106
HU226502D64Q	/5	MS G 1	AISI304 G 6/4	PN16	18,00A	3480rpm	1254	95	95	260	210	245	480	109
HU226602D64Q	/6	MS G 1	AISI304 G 6/4	PN16	18,00A	3480rpm	1254	95	95	260	210	245	480	111

3.3.3 HU2 DPVE4/6 MC FRP

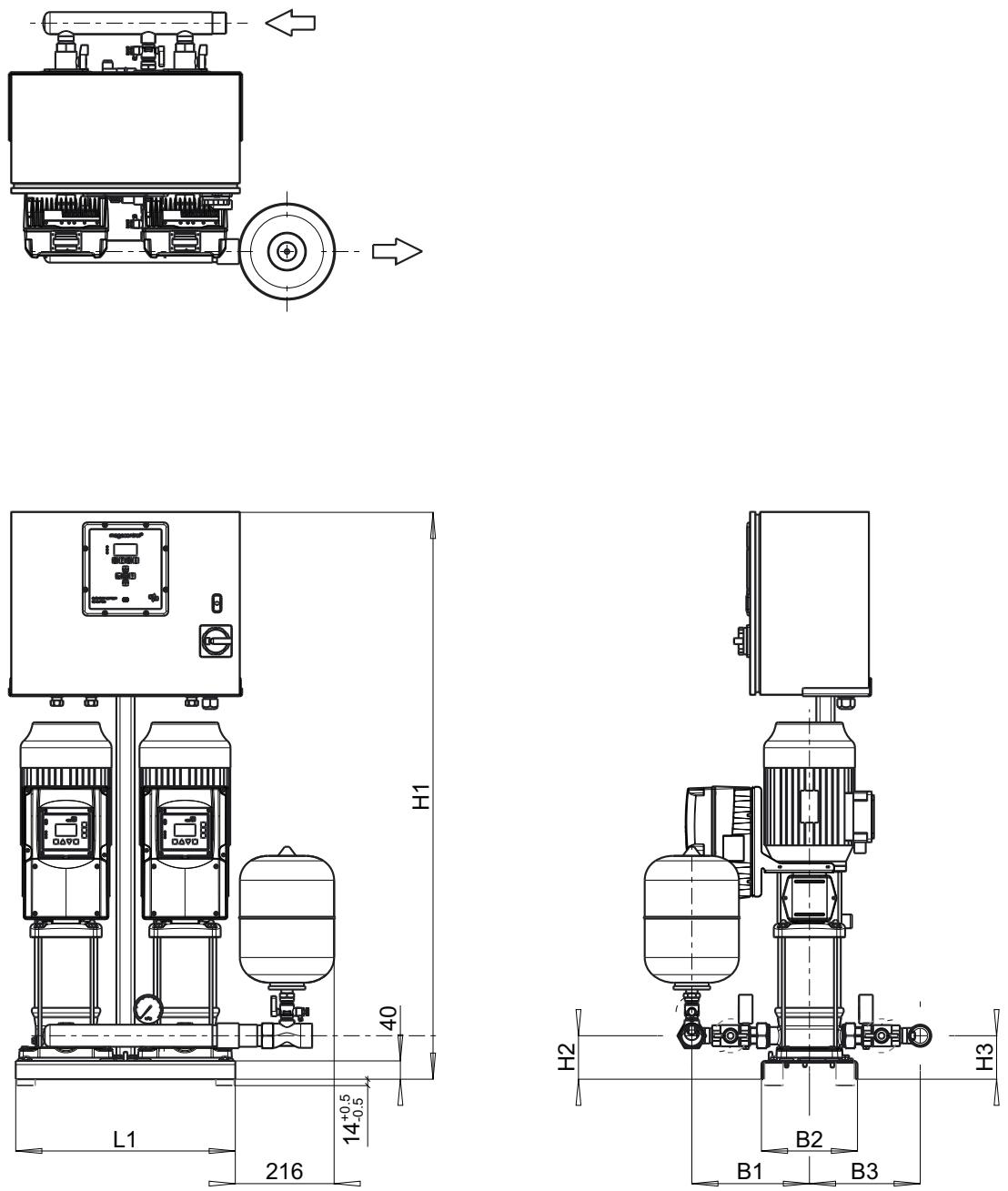


Figure 43: HU2 DPVE4/6 MC FRP

Table 40: General

Control	MC FRP 60Hz
Run dry protection	Pressure switch
Connection voltage	3x400V+N 50Hz/60Hz
Insolation class	IP55
Max. fuse	25A
Membrane tank	Flow through type, 8 l
Drawing number	20131009

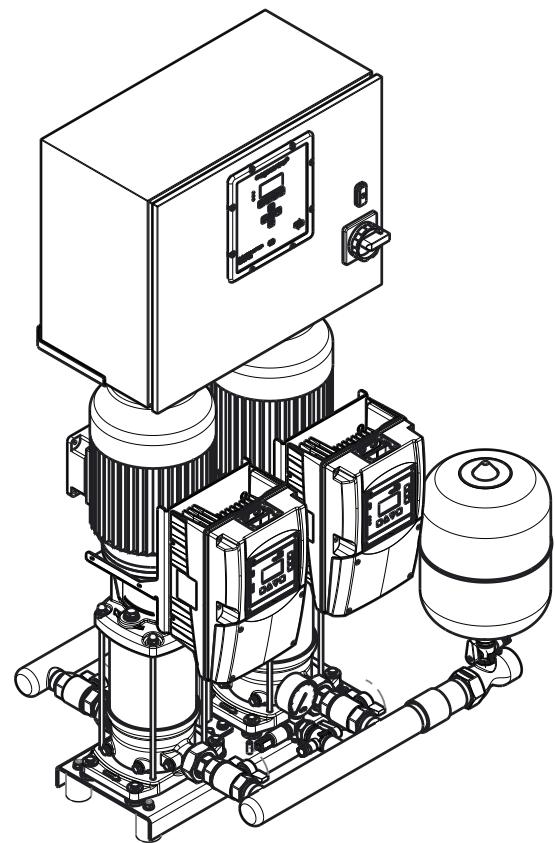


Figure 44: HU2 DPVE4/6 MC FRP

Table 41: Detailwaarden

Article number	Number of stages	Fitting (material - connection)	Collecting pipe (material - connection)	Pressure class	I _{max} installation	Pump speed	H1 [mm]	H2 [mm]	H3 [mm]	B1 [mm]	B2 [mm]	B3 [mm]	L1 [mm]	Mass [kg]
DPVE4														
HU224907D65Q	/9	MS G 1	AISI304 G 6/4	PN16	17,80A	3480rpm	1254	95	95	260	210	245	480	
DPVE6														
HU226707D65Q	/7	MS G 1	AISI304 G 6/4	PN16	17,80A	3480rpm	1254	95	95	260	210	245	480	

3.3.4 HU2 DPVE10 MCMF

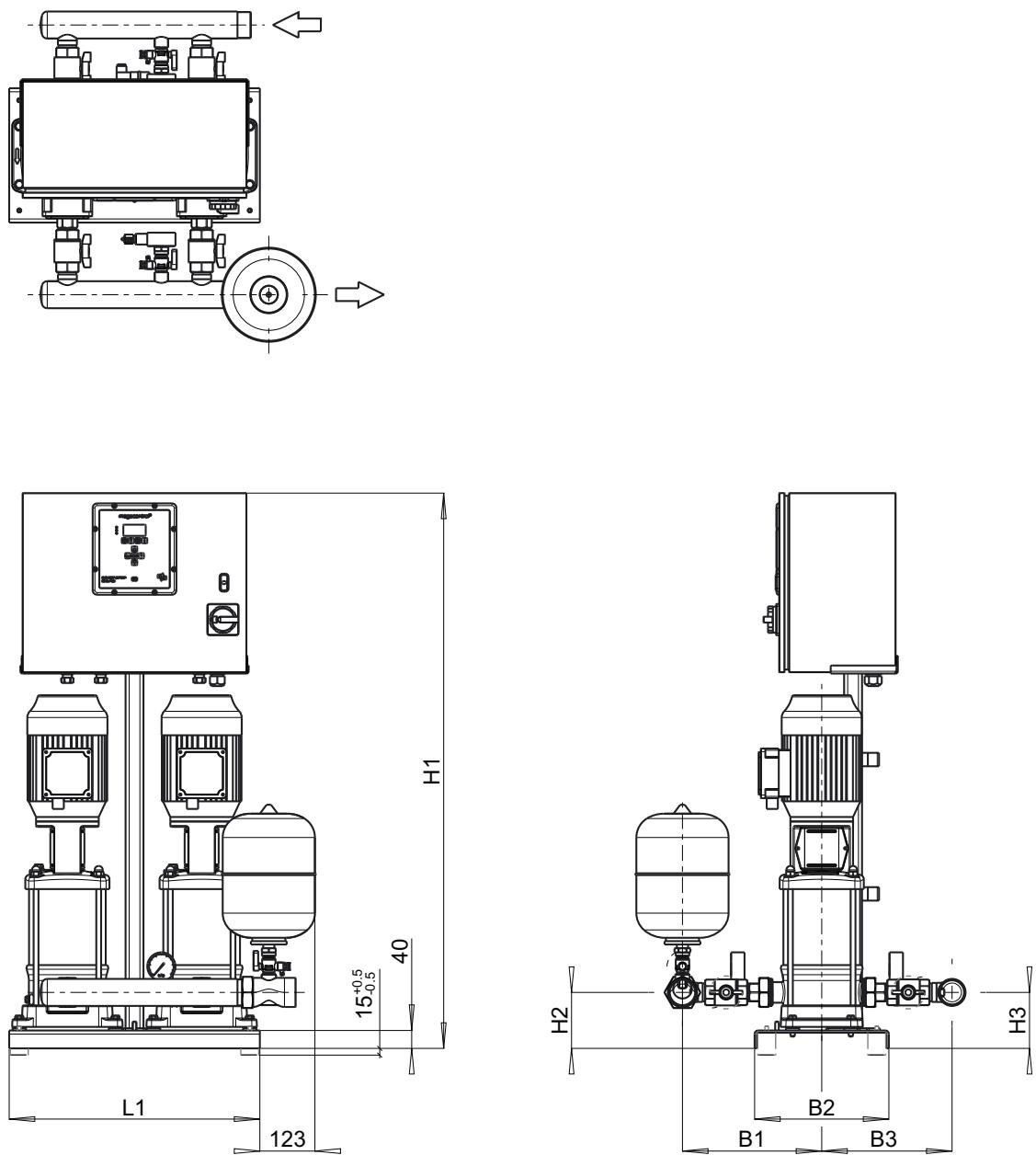


Figure 45: HU2 DPVE10 MCMF

Table 42: General

Control	MCMF 50Hz
Run dry protection	Pressure switch
Connection voltage	3x400V+N 50Hz
Insulation class	IP55
Max. fuse	25A
Membrane tank	Flow through type, 8 l
Drawing number	20150689

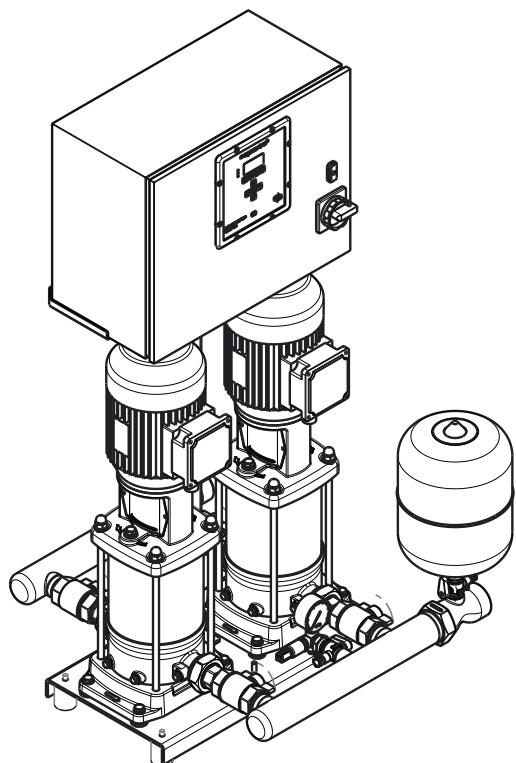


Figure 46: HU2 DPVE10 MCMF

Table 43: Detailed

Article number	Number of stages	Fitting (material - connection)	Collecting pipe (material - connection)	Pressure class	I _{max} installation [A]	Pump speed	H1 [mm]	H2 [mm]	H3 [mm]	B1 [mm]	B2 [mm]	B3 [mm]	L1 [mm]	Mass [kg]
DPVE10														
HU22A201E64Q	/2	MS G 5/4	AISI304 G 2	PN10	12,60A	2850rpm	1240	125	125	315	260	295	560	117
HU22A301E64Q	/3	MS G 5/4	AISI304 G 2	PN10	12,80A	2850rpm	1240	125	125	315	260	295	560	130
HU22A401E64Q	/4	MS G 5/4	AISI304 G 2	PN10	12,80A	2850rpm	1240	125	125	315	260	295	560	139
HU22A501E64Q	/5	MS G 5/4	AISI304 G 2	PN10	18,00A	2850rpm	1240	125	125	315	260	295	560	147
HU22A602E64Q	/6	MS G 5/4	AISI304 G 2	PN16	18,00A	2850rpm	1240	125	125	315	260	295	560	156

3.3.5 HU2 DPVE10 MC FRP

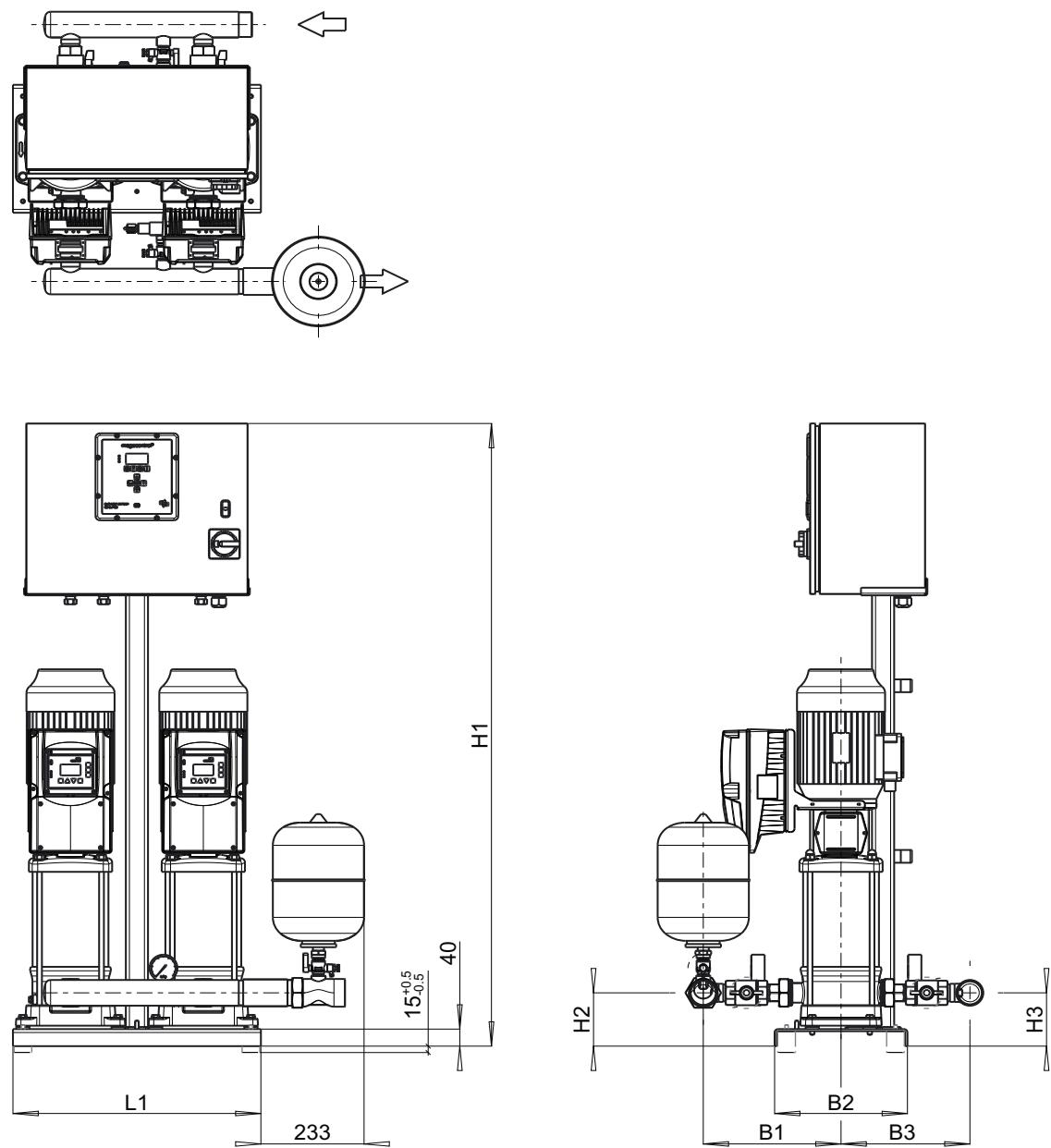


Figure 47: HU2 DPVE10 MC FRP

Table 44: General

Control	MC FRP 50Hz
Run dry protection	Pressure switch
Connection voltage	3x400V+N 50Hz
Insulation class	IP55
Max. fuse	25A
Membrane tank	Flow through type, 8 l
Drawing number	20131018

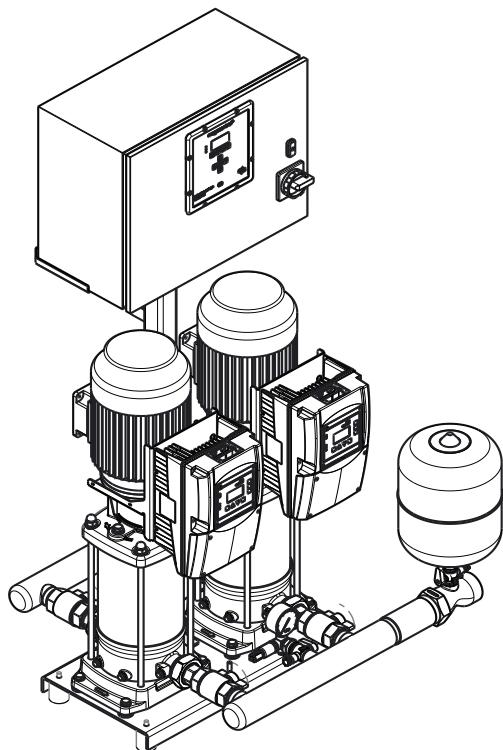


Figure 48: HU2 DPVE10 MC FRP

Table 45: Detailed

Article number	Number of stages	Fitting (material - connection)	Collecting pipe (material - connection)	Pressure class	I _{max} installation [A]	Pump speed	H1 [mm]	H2 [mm]	H3 [mm]	B1 [mm]	B2 [mm]	B3 [mm]	L1 [mm]	Mass [kg]
DPVE10														
HU22A707E65Q	/7	MS G 5/4	AISI304 G 2	PN16	17,80A	2905rpm	1440	125	125	315	300	295		
HU22A807E65Q	/8	MS G 5/4	AISI304 G 2	PN16	17,80A	2905rpm	1440	125	125	315	300	295		
HU22A907E65Q	/9	MS G 5/4	AISI304 G 2	PN16	21,80A	2915rpm	1440	125	125	315	300	295		
HU22AA07E65Q	/10	MS G 5/4	AISI304 G 2	PN16	21,80A	2915rpm	1440	125	125	315	300	295		

3.3.6 HU2 DPVE15 MCMF

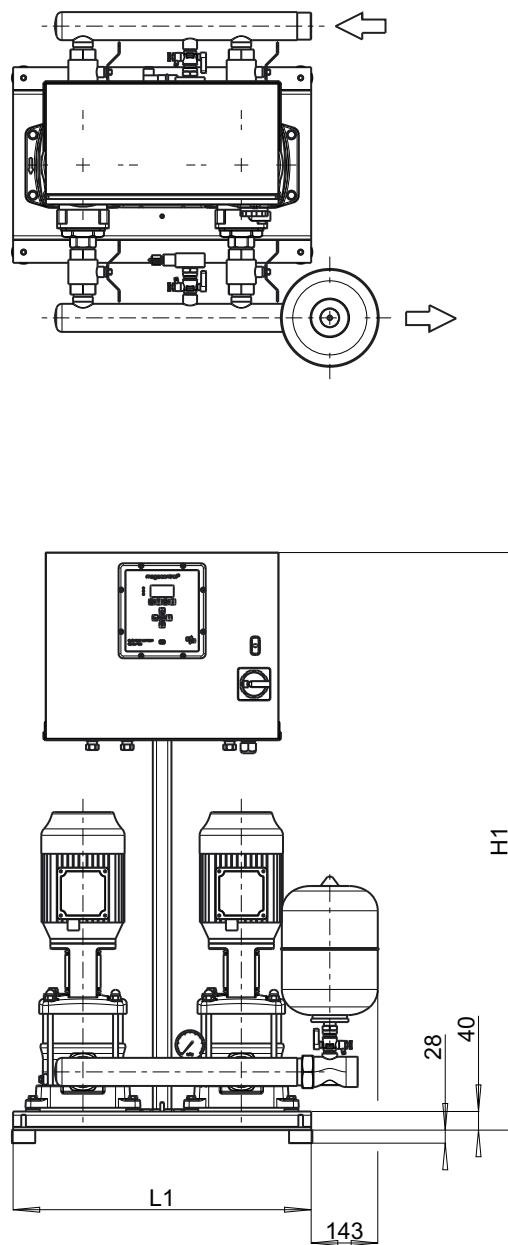


Figure 49: HU2 DPVE15 MCMF

Table 46: General

Control	MCMF 50Hz
Run dry protection	Pressure switch
Connection voltage	3x400V+N 50Hz
Insolation class	IP55
Max. fuse	25A
Membrane tank	Flow through type, 8 l
Drawing number	20150693

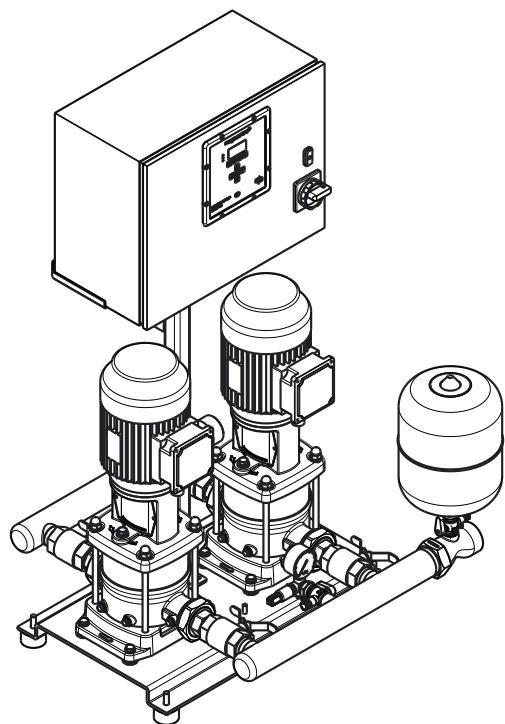


Figure 50: HU2 DPVE15 MCMF

Table 47: Detailed

Article number	Number of stages	Fitting (material - connection)	Collecting pipe (material - connection)	Pressure class	I max installation [A]	Pump speed	H1 [mm]	H2 [mm]	H3 [mm]	B1 [mm]	B2 [mm]	B3 [mm]	L1 [mm]	Mass [kg]
DPVE15														
HU22B207E64Q	/2	MS G 6/4	AISI304 G 5/2	PN10	18,00A	2870rpm	1240	125	125	340	420	310	640	

3.3.7 HU2 DPVE15 MC FRP

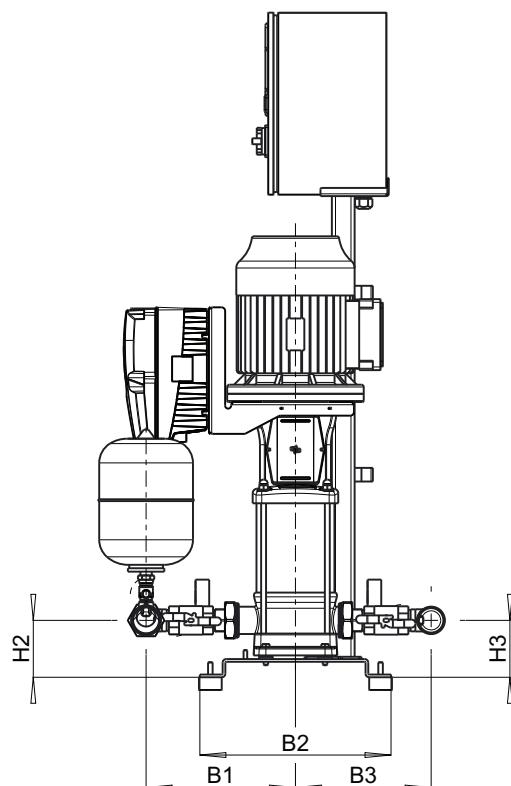
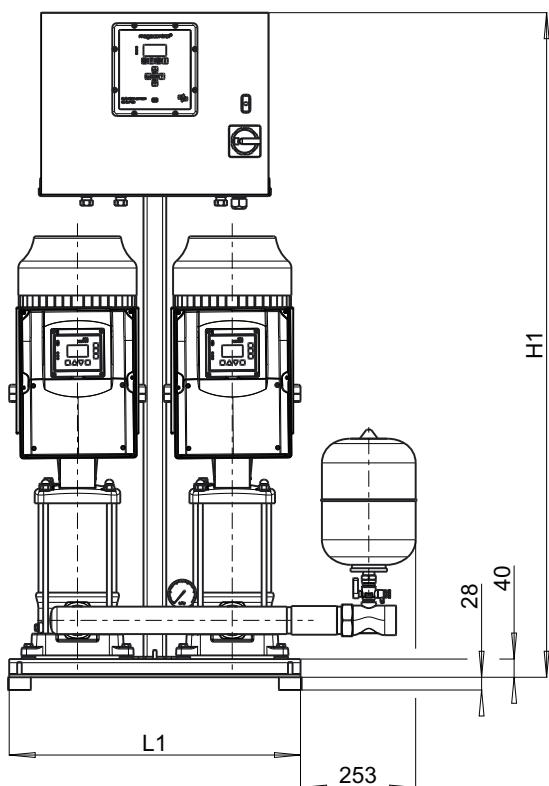
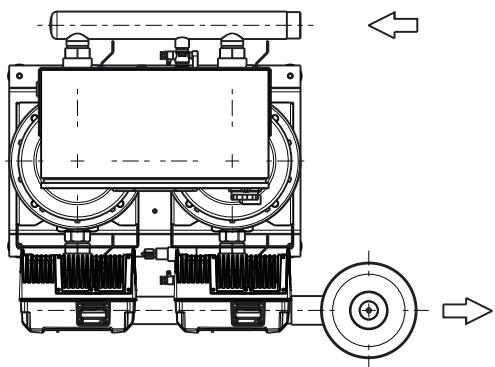


Figure 51: HU2 DPVE15 MC FRP

Table 48: General

Control	MC FRP 50Hz
Run dry protection	Pressure switch
Connection voltage	3x400V+N 50Hz
Insulation class	IP55
Max. fuse	25A
Membrane tank	Flow through type, 8 l
Drawing number	20150033

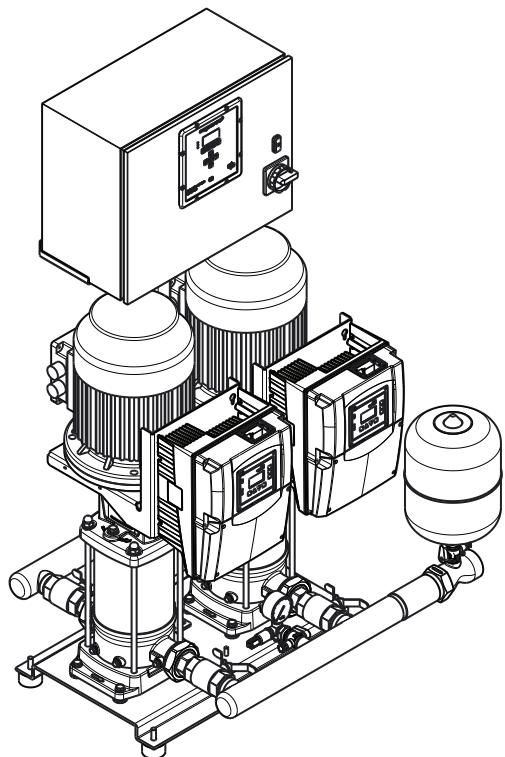


Figure 52: HU2 DPVE15 MC FRP

Table 49: Detailed

Article number	Number of stages	Fitting (material - connection)	Collecting pipe (material - connection)	Pressure class	I _{max} installation [A]	Pump speed	H1 [mm]	H2 [mm]	H3 [mm]	B1 [mm]	B2 [mm]	B3 [mm]	L1 [mm]	Mass [kg]
DPVE15														
HU22B307E65Q	/3	MS G 6/4	AISI304 G 5/2	PN10	17,80A	2905rpm	1240	125	125	340	420	310	640	
HU22B407E65Q	/4	MS G 6/4	AISI304 G 5/2	PN10	21,80A	2915rpm	1440	125	125	340	420	310	640	
HU22B507E65Q	/5	MS G 6/4	AISI304 G 5/2	PN16	30,20A	2930rpm	1440	125	125	340	420	310	640	
HU22B607E65Q	/6	MS G 6/4	AISI304 G 5/2	PN16	30,20A	2930rpm	1440	125	125	340	420	310	640	
HU22B707E65Q	/7	MS G 6/4	AISI304 G 5/2	PN16	38,40A	2920rpm	1440	125	125	340	420	310	640	
HU22B807E65Q	/8	MS G 6/4	AISI304 G 5/2	PN16	38,40A	2920rpm	1440	125	125	340	420	310	640	

3.3.8 HU3 DPVME2/4/6 MCMF

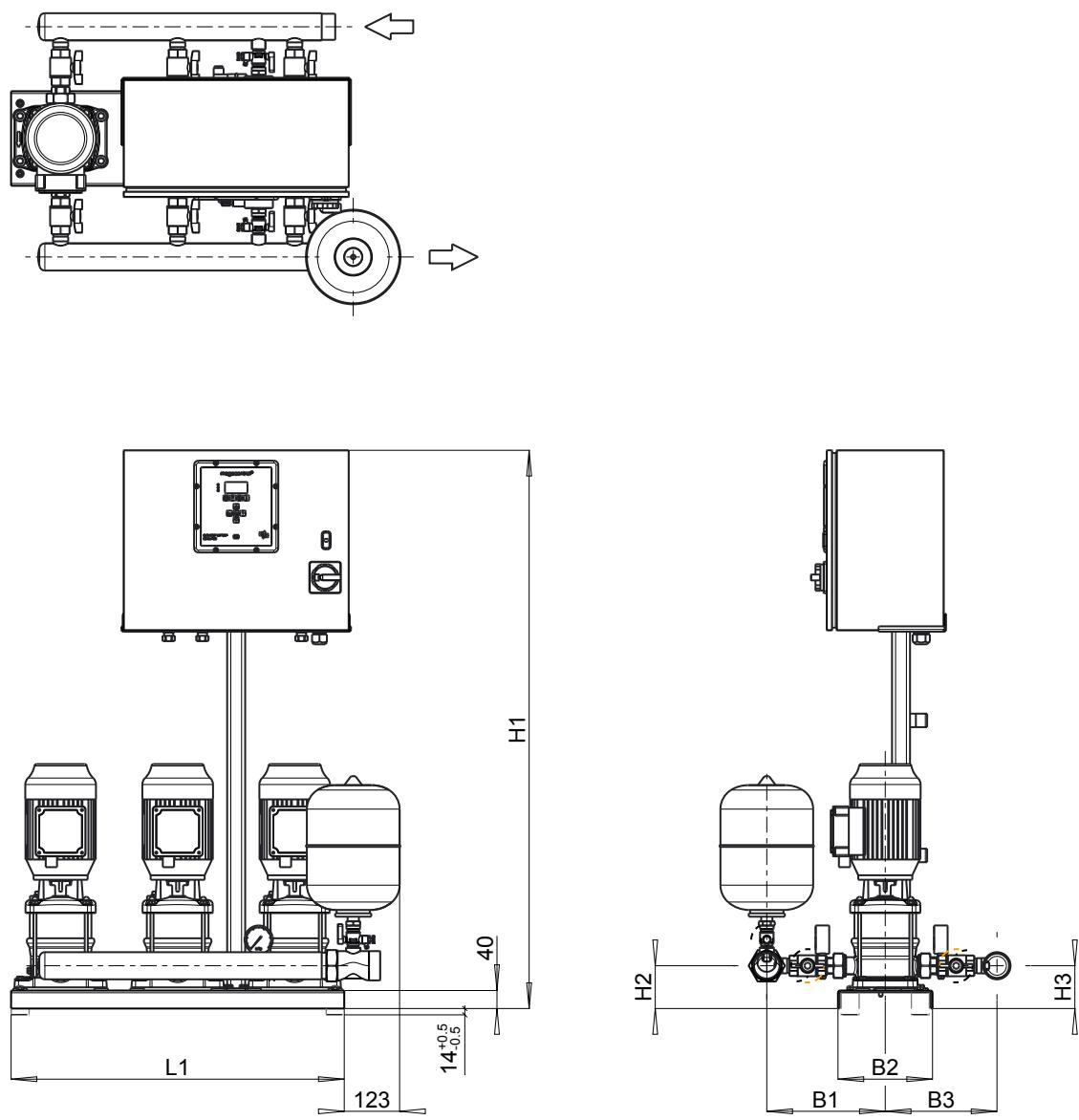


Figure 53: HU3 DPVME2/4/6 MCMF

20131012A

Table 50: General

Control	MCMF 60Hz
Run dry protection	Pressure switch
Connection voltage	3x400V+N 50Hz/60Hz
Insulation class	IP55
Max. fuse	25A
Membrane tank	Flow through type, 8 l
Drawing number	20131012

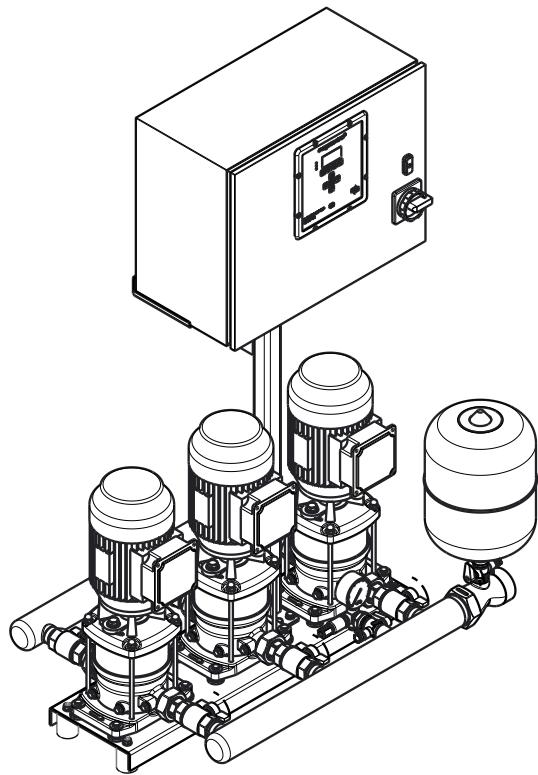


Figure 54: HU3 DPVME2/4/6 MCMF

Table 51: Detailed

Article number	Number of stages	Fitting (material - connection)	Collecting pipe (material - connection)	Pressure class	I max installation	Pump speed	H1 [mm]	H2 [mm]	H3 [mm]	B1 [mm]	B2 [mm]	B3 [mm]	L1 [mm]	Mass [kg]
DPVME2														
HU312201D64Q	/2	MS G 1	AISI304 G 6/4	PN10	12,60A	3300rpm	1254	95	95	260	210	245	740	100
HU312301D64Q	/3	MS G 1	AISI304 G 6/4	PN10	12,60A	3300rpm	1254	95	95	260	210	245	740	101
HU312401D64Q	/4	MS G 1	AISI304 G 6/4	PN10	12,60A	3345rpm	1254	95	95	260	210	245	740	102
HU312501D64Q	/5	MS G 1	AISI304 G 6/4	PN10	12,60A	3450rpm	1254	95	95	260	210	245	740	121
HU312602D64Q	/6	MS G 1	AISI304 G 6/4	PN16	12,60A	3450rpm	1254	95	95	260	210	245	740	122
DPVME4														
HU314201D64Q	/2	MS G 1	AISI304 G 6/4	PN10	12,60A	3345rpm	1254	95	95	260	210	245	740	100
HU314301D64Q	/3	MS G 1	AISI304 G 6/4	PN10	12,60A	3450rpm	1254	95	95	260	210	245	740	119
HU314401D64Q	/4	MS G 1	AISI304 G 6/4	PN10	18,70A	3450rpm	1254	95	95	260	210	245	740	120
DPVME6														
HU316201E64Q	/2	MS G 1	AISI304 G 2	PN10	12,60A	3450rpm	1254	95	95	265	210	250	740	120
HU316301E64Q	/3	MS G 1	AISI304 G 2	PN10	18,70A	3450rpm	1254	95	95	265	210	250	740	122

3.3.9 HU3 DPVE2/4/6 MCMF

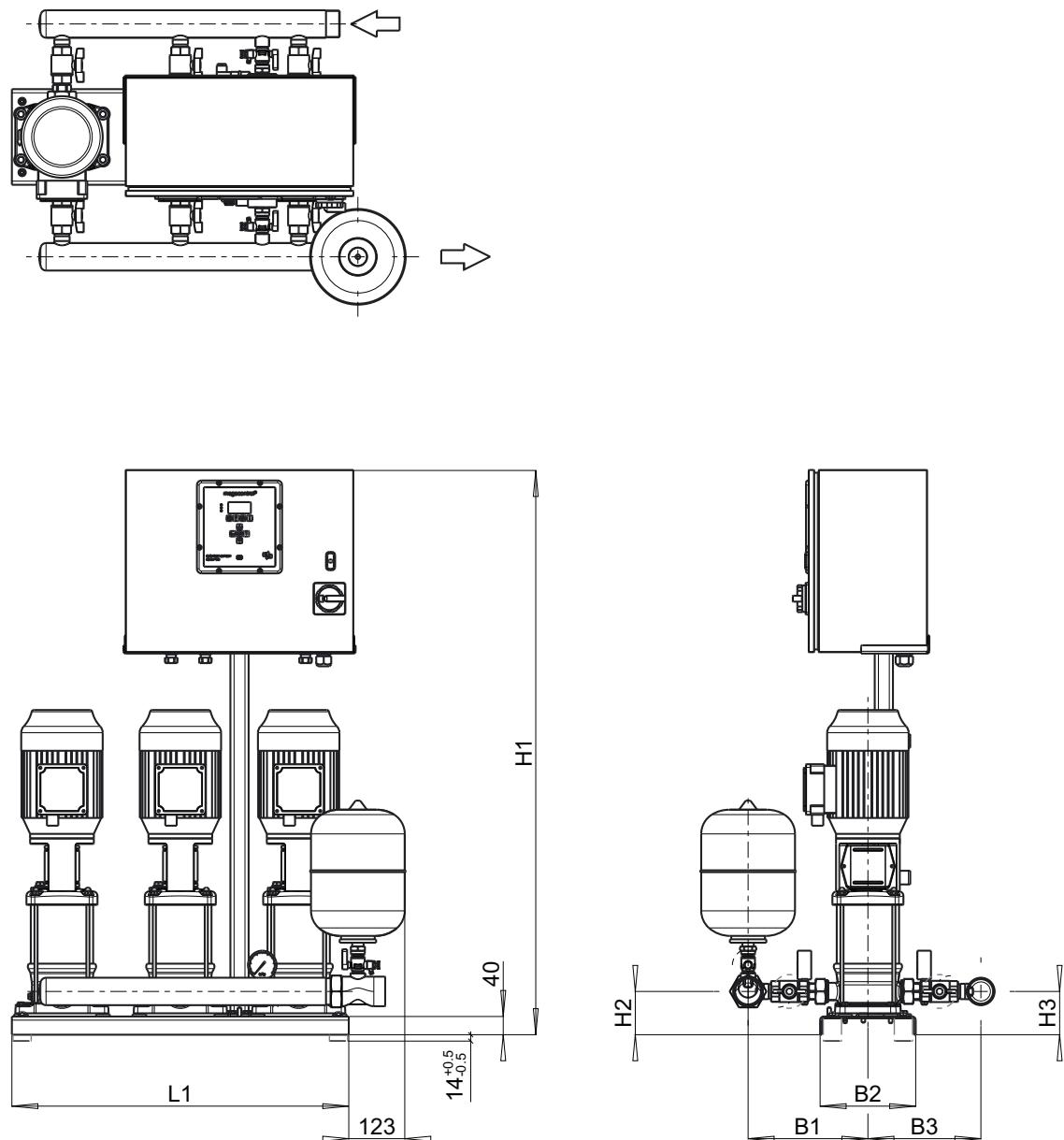


Figure 55: HU3 DPVE2/4/6 MCMF

Table 52: General

Control	MCMF 60Hz
Run dry protection	DRUKSCHAKELAAR
Connection voltage	3x400V+N 50Hz/60Hz
Insolation class	IP55
Max. fuse	25A
Membrane tank	Flow through type, 8 l
Drawing number	20150688

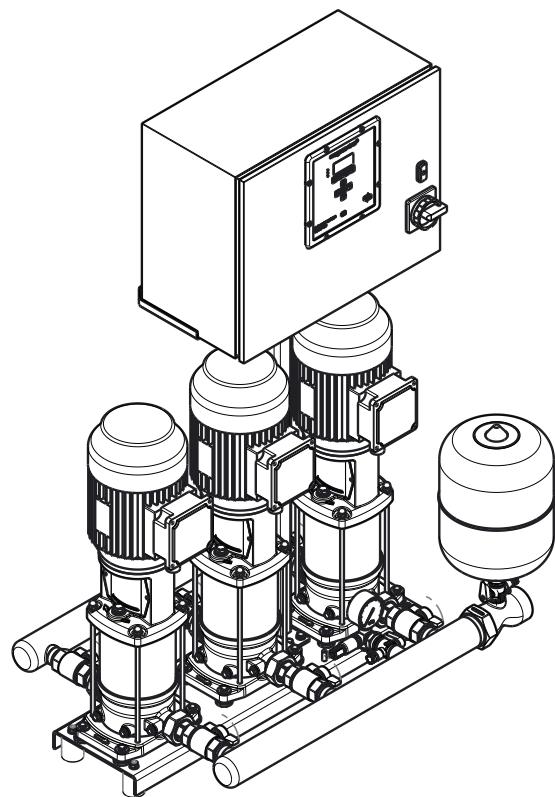


Figure 56: HU3 DPVE2/4/6 MCMF

Table 53: Detailed

Article number	Number of stages	Fitting (material - connection)	Collecting pipe (material - connection)	Pressure class	I max installation	Pump speed	H1 [mm]	H2 [mm]	H3 [mm]	B1 [mm]	B2 [mm]	B3 [mm]	L1 [mm]	Mass [kg]
DPVE2														
HU322702D64Q	/7	MS G 1	AISI304 G 6/4	PN16	12,60A	3450rpm	1254	95	95	260	210	245	740	128
HU322807D64Q	/8	MS G 1	AISI304 G 6/4	PN16	12,60A	3450rpm	1254	95	95	260	210	245	740	
HU322907D64Q	/9	MS G 1	AISI304 G 6/4	PN16	12,60A	3450rpm	1254	95	95	260	210	245	740	
HU322A07D64Q	/10	MS G 1	AISI304 G 6/4	PN16	18,70A	3450rpm	1254	95	95	260	210	245	740	
DPVE4														
HU324502D64Q	/5	MS G 1	AISI304 G 6/4	PN16	18,70A	3480rpm	1254	95	95	260	210	245	740	145
HU324602D64Q	/6	MS G 1	AISI304 G 6/4	PN16	18,70A	3480rpm	1254	95	95	260	210	245	740	147
HU324707D64Q	/7	MS G 1	AISI304 G 6/4	PN16	26,50A	3480rpm	1254	95	95	260	210	245	740	
HU324807D64Q	/8	MS G 1	AISI304 G 6/4	PN16	26,50A	3480rpm	1254	95	95	260	210	245	740	
DPVE6														
HU326401E64Q	/4	MS G 1	AISI304 G 2	PN10	18,70A	3480rpm	1254	95	95	265	210	250	740	146
HU326502E64Q	/5	MS G 1	AISI304 G 2	PN16	26,50A	3480rpm	1254	95	95	265	210	250	740	151
HU326602E64Q	/6	MS G 1	AISI304 G 2	PN16	26,50A	3480rpm	1254	95	95	265	210	250	740	152

3.3.10 HU3 DPVE4/6 MC FRP

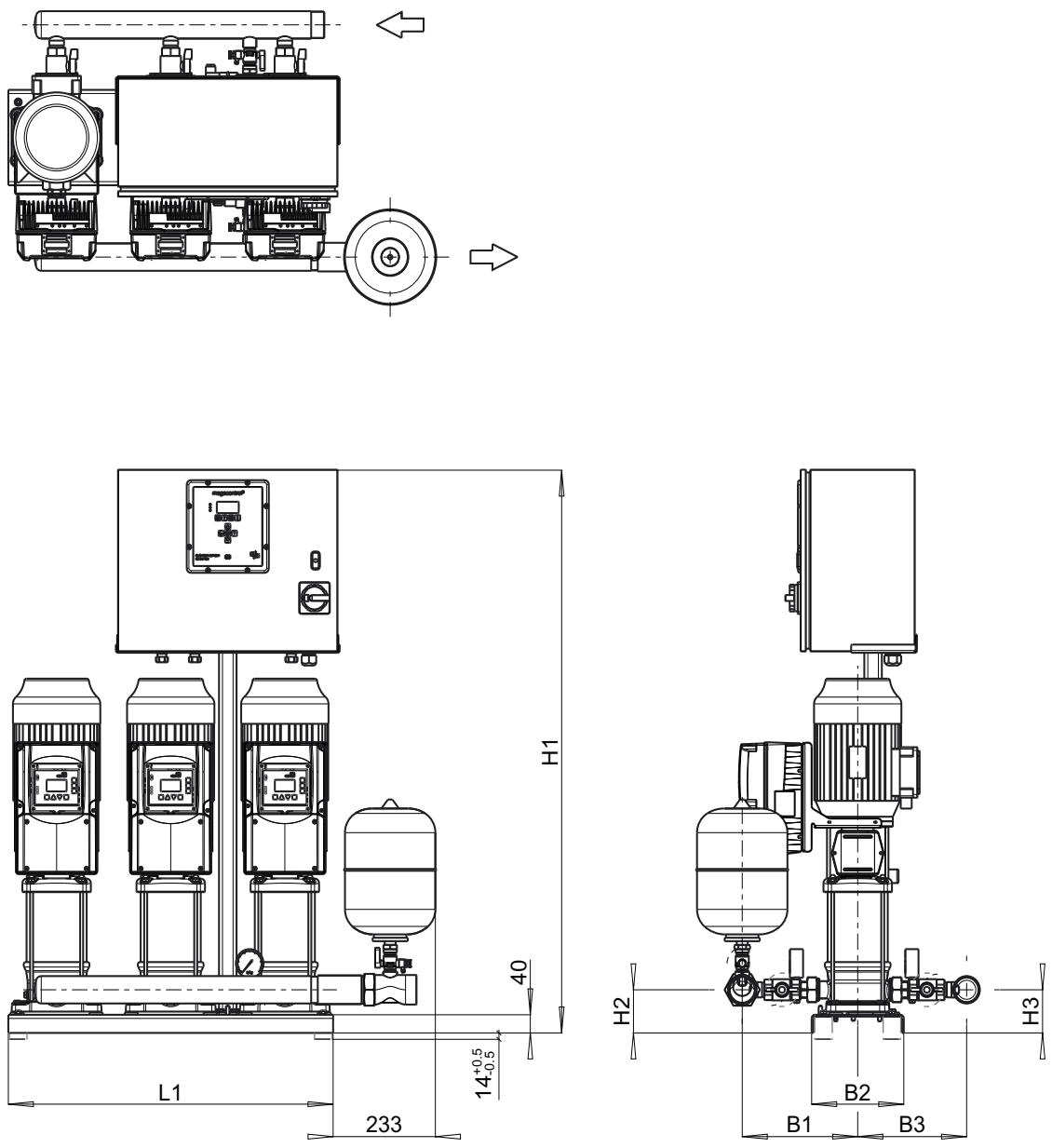


Figure 57: HU3 DPVE4/6 MC FRP

Table 54: General

Control	MC FRP 60Hz
Run dry protection	DRUKSCHAKELAAR
Connection voltage	3x400V+N 50Hz/60Hz
Insulation class	IP55
Max. fuse	25A
Membrane tank	Flow through type, 8 l
Drawing number	20131015

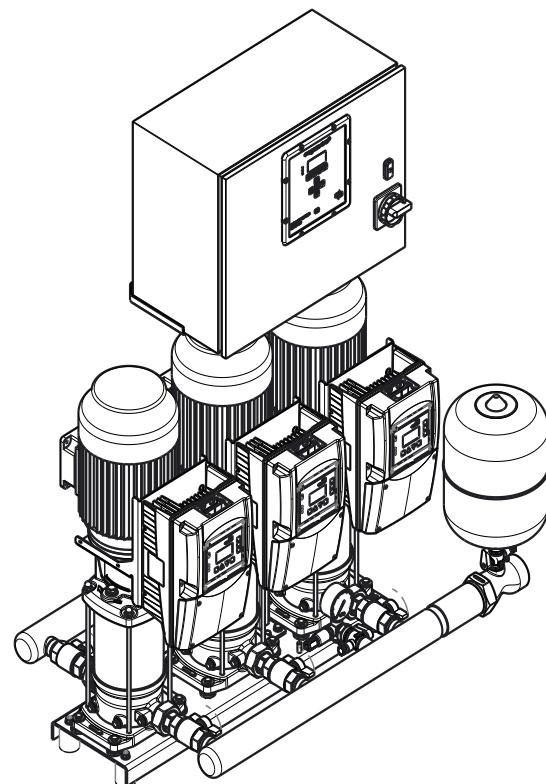


Figure 58: HU3 DPVE2/4/6 MCMF

Table 55: Detailed

Article number	Number of stages	Fitting (material - connection)	Collecting pipe (material - connection)	Pressure class	I max installation	Pump speed	H1 [mm]	H2 [mm]	H3 [mm]	B1 [mm]	B2 [mm]	B3 [mm]	L1 [mm]	Mass [kg]
DPVE4														
HU324907D65Q	/9	MS G 1	AISI304 G 6/4	PN16	26,20A	3480rpm	1254	95	95	260	210	245	740	
DPVE6														
HU326707E65Q	/7	MS G 1	AISI304 G 2	PN16	26,20A	3480rpm	1254	95	95	265	210	250	740	

3.3.11 HU3 DPVE10 MCMF

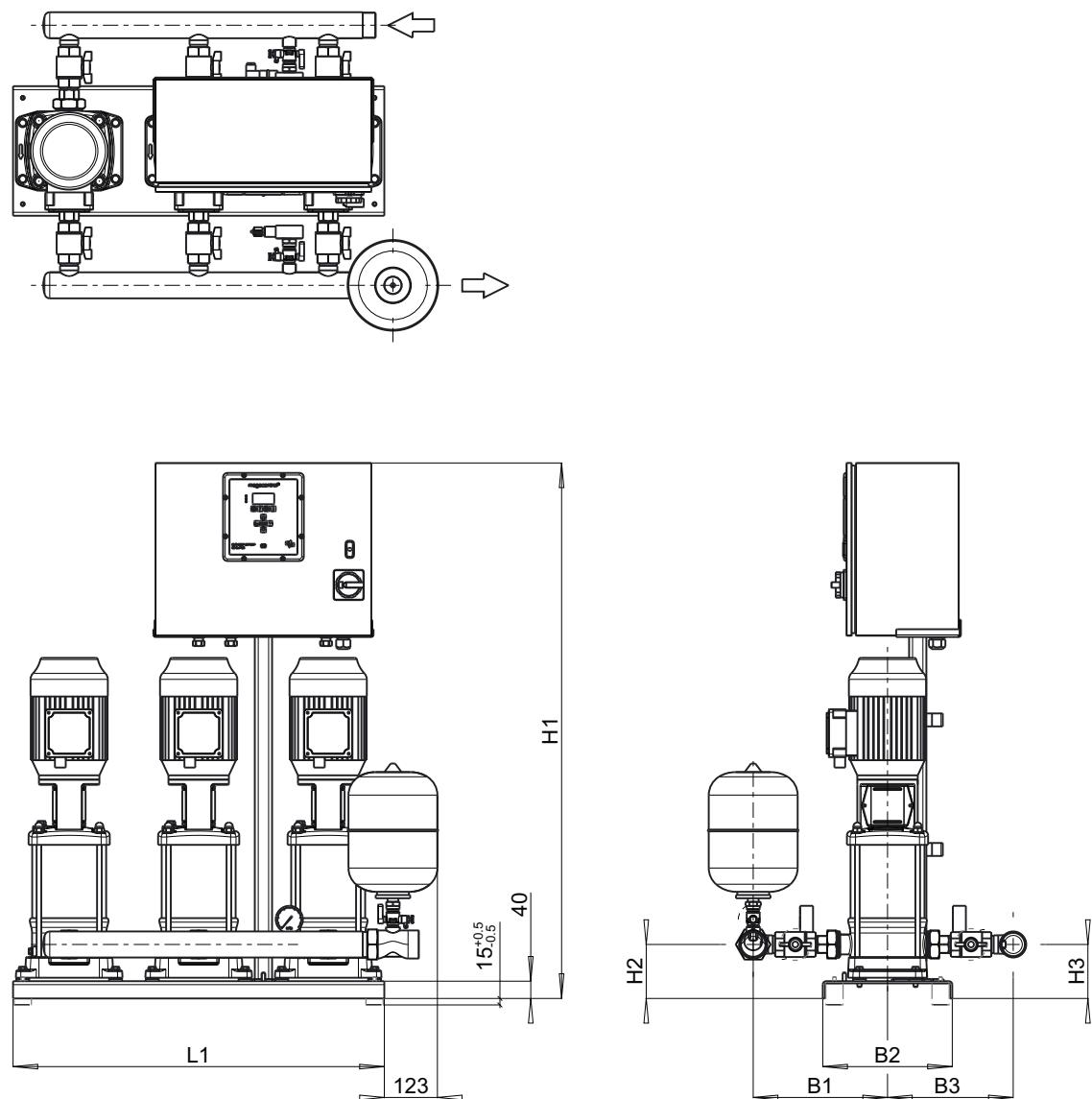


Figure 59: HU3 DPVE10 MCMF

Table 56: General

Control	MCMF 50Hz
Run dry protection	Pressure switch
Connection voltage	3x400V+N 50Hz
Insulation class	IP55
Max. fuse	25A
Membrane tank	Flow through type, 8 l
Drawing number	20150690

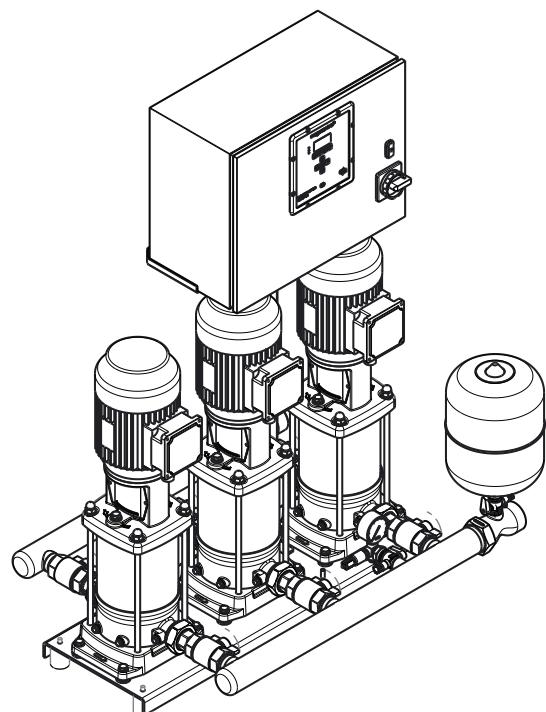


Figure 60: HU3 DPVE10 MCMF

Table 57: Detailed

Article number		Number of stages	Fitting (material - connection)	Collecting pipe (material - connection)	Pressure class	I max installation [A]	Pump speed	H1 [mm]	H2 [mm]	H3 [mm]	B1 [mm]	B2 [mm]	B3 [mm]	L1 [mm]	Mass [kg]
DPVE10															
HU32A201E64Q	/2	MS G 5/4	AISI304 G 2	PN10	12,60	2850rpm	1240	125	125	315	260	295	860	150	
HU32A301E64Q	/3	MS G 5/4	AISI304 G 2	PN10	18,70	2850rpm	1240	125	125	315	260	295	860	170	
HU32A401E64Q	/4	MS G 5/4	AISI304 G 2	PN10	18,70	2850rpm	1240	125	125	315	260	295	860	183	
HU32A501E64Q	/5	MS G 5/4	AISI304 G 2	PN10	25,00	2850rpm	1240	125	125	315	260	295	860	195	
HU32A602E64Q	/6	MS G 5/4	AISI304 G 2	PN16	25,00	2850rpm	1240	125	125	315	260	295	860	208	

3.3.12 HU3 DPVE10 MC FRP

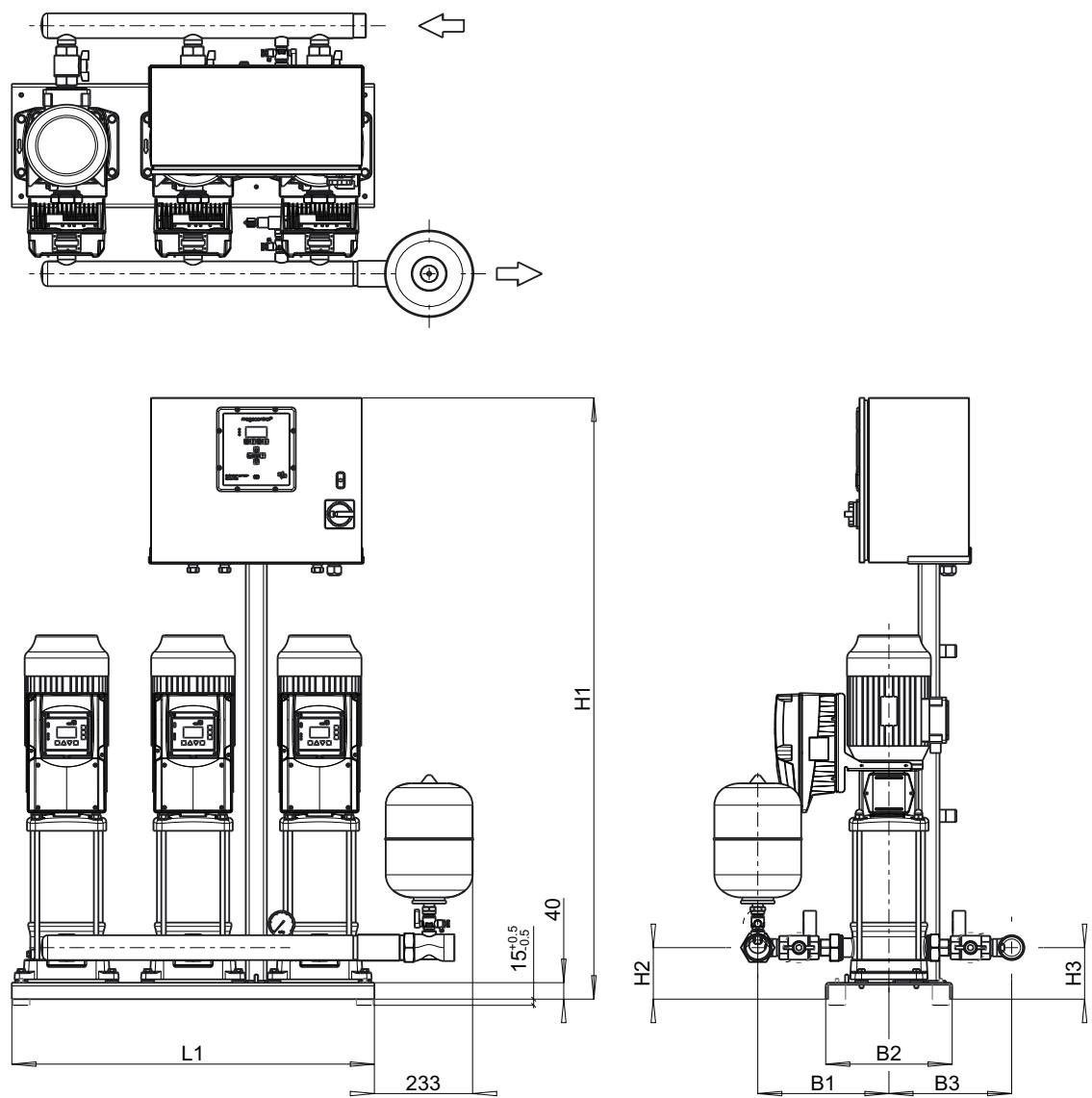


Figure 61: HU3 DPVE10 MC FRP

Table 58: General

Control	MC FRP 50Hz
Run dry protection	Pressure switch
Connection voltage	3x400V+N 50Hz
Insulation class	IP55
Max. fuse	25A
Membrane tank	Flow through type, 8 l
Drawing number	20131021

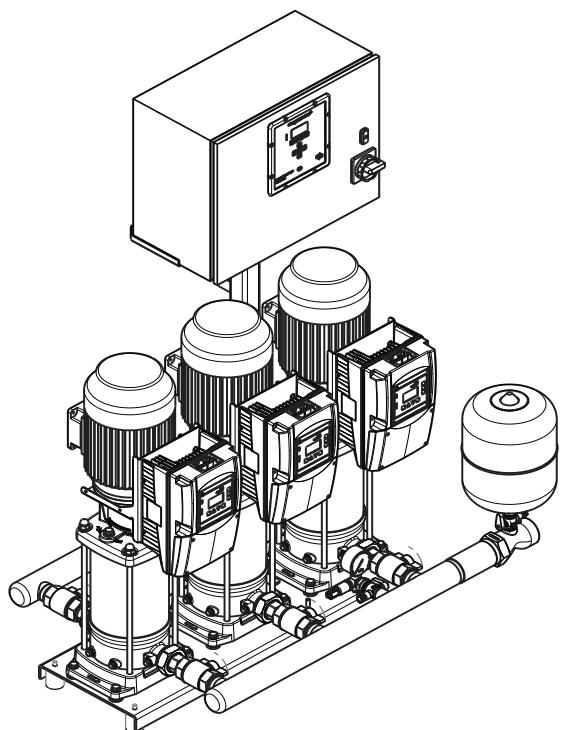


Figure 62: HU3 DPVE10 MC FRP

Table 59: Detailed

Article number	Number of stages	Fitting (material - connection)	Collecting pipe (material - connection)	Pressure class	I max installation [A]	Pump speed	H1 [mm]	H2 [mm]	H3 [mm]	B1 [mm]	B2 [mm]	B3 [mm]	L1 [mm]	Mass [kg]
DPVE10														
HU32A707E65Q	/7	MS G 5/4	AISI304 G 2	PN16	26,20A	2905rpm	1440	125	125	315	300	295		
HU32A807E65Q	/8	MS G 5/4	AISI304 G 2	PN16	26,20A	2905rpm	1440	125	125	315	300	295		
HU32A907E65Q	/9	MS G 5/4	AISI304 G 2	PN16	32,20A	2915rpm	1440	125	125	315	300	295		
HU32AA07E65Q	/10	MS G 5/4	AISI304 G 2	PN16	32,20A	2915rpm	1440	125	125	315	300	295		

3.3.13 HU3 DPVE15 MCMF

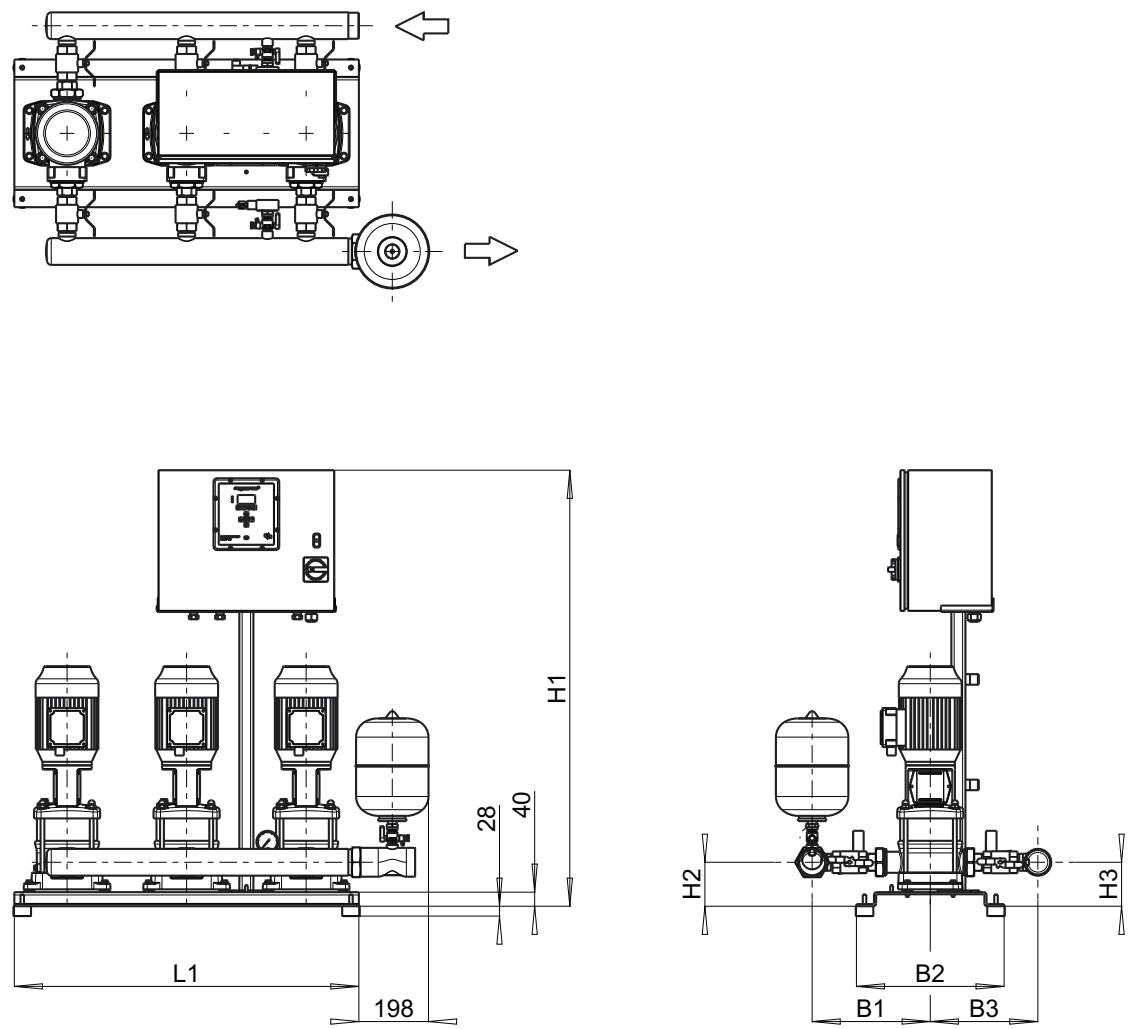


Figure 63: HU3 DPVE15 MCMF

Table 60: General

Control	MCMF 50Hz
Run dry protection	Pressure switch
Connection voltage	3x400V+N 50Hz
Insulation class	IP55
Max. fuse	25A
Membrane tank	Flow through type, 8 l
Drawing number	20150694

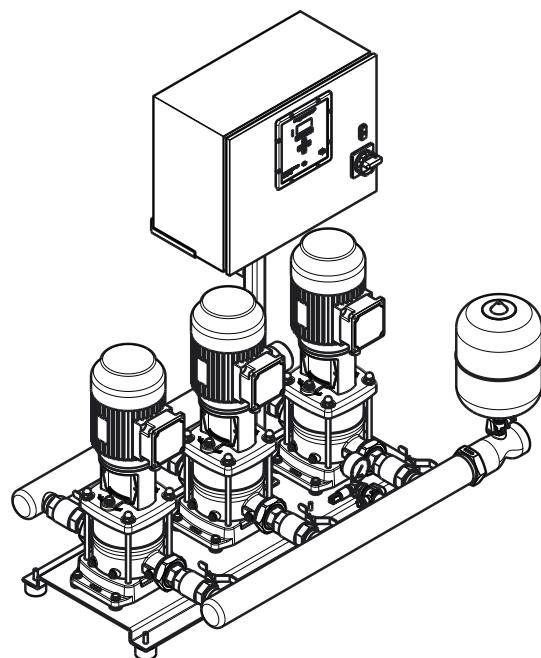


Figure 64: HU3 DPVE15 MCMF

Table 61: Detailed

Article number	Number of stages	Fitting (material - connection)	Collecting pipe (material - connection)	Pressure class	I max installation [A]	Pump speed	H1 [mm]	H2 [mm]	H3 [mm]	B1 [mm]	B2 [mm]	B3 [mm]	L1 [mm]	Mass [kg]
DPVE15														
HU32B207K64Q	/2	MS G 6/4	AISI304 G 5/2	PN10	26,50A	2870rpm	1240	125	125	340	420	310	980	

3.3.14 HU3 DPVE15 MC FRP

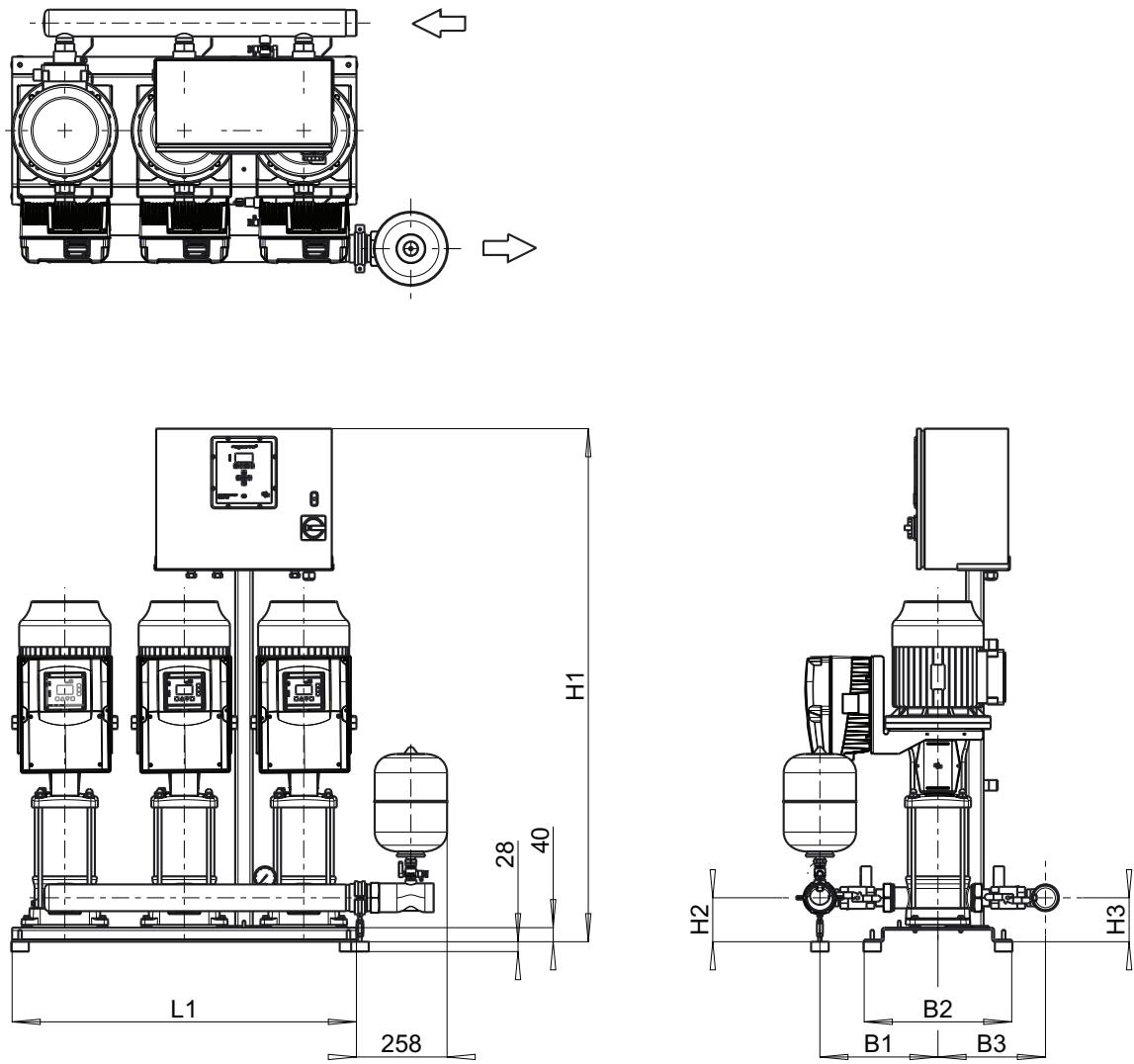


Figure 65: HU3 DPVE15 MC FRP

Table 62: General

Control	MC FRP 50Hz
Run dry protection	Pressure switch
Connection voltage	3x400V+N 50Hz
Insulation class	IP55
Max. fuse	25A
Membrane tank	Flow through type, 8 l
Drawing number	20150035

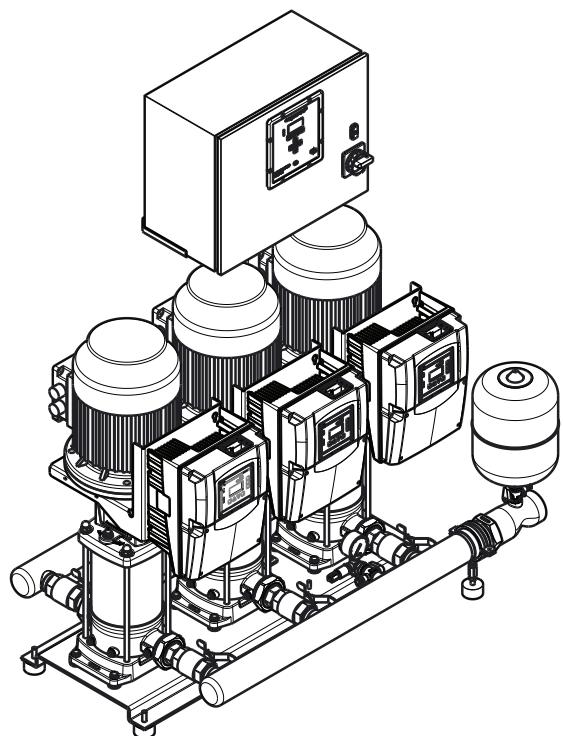


Figure 66: HU3 DPVE15 MC FRP

Table 63: Detailed

Article number	Number of stages	Fitting (material - connection)	Collecting pipe (material - connection)	Pressure class	I _{max} installation [A]	Pump speed	H1 [mm]	H2 [mm]	H3 [mm]	B1 [mm]	B2 [mm]	B3 [mm]	L1 [mm]	Mass [kg]
DPVE15														
HU32B307K65Q /3	MS G 6/4	AISI304 G 5/2	PN10	26,20A	2905rpm	1240	125	125	340	420	310	980		
HU32B407K65Q /4	MS G 6/4	AISI304 G 5/2	PN10	32,20A	2915rpm	1440	125	125	340	420	310	980		
HU32B507K65Q /5	MS G 6/4	AISI304 G 5/2	PN16	44,80A	2930rpm	1440	125	125	340	420	310	980		
HU32B607K65Q /6	MS G 6/4	AISI304 G 5/2	PN16	44,80A	2930rpm	1440	125	125	340	420	310	980		
HU32B707K65Q /7	MS G 6/4	AISI304 G 5/2	PN16	57,10A	2920rpm	1440	125	125	340	420	310	980		
HU32B807K65Q /8	MS G 6/4	AISI304 G 5/2	PN16	57,10A	2920rpm	1440	125	125	340	420	310	980		

3.3.15 Specification text

All DP-Pumps booster-set comply with the NEN1006 (NL) standard and have been constructed as described in the water worksheets (NL)

Consisting of:

- two or three DPV(M)E vertical multi-stage centrifugal pumps, with an European drinking water approval, including an integrated non-return valve of which all metal parts that come into contact with the medium have been made of AISI304
- four or six nickel-plated brass ball valves, with a special ball for flushing the inside of the ball valve
- AISI304 manifolds, one side closed
- run dry protection set consisting of a pressure switch (20 kPa ON, 110 kPa reset), pressure gauge and a drain valve
- discharge pressure control set consisting of a pressure transmitter (4-20 mA/0-1000kPa or 4-20mA/0-2500kPa), pressure gauge and a drain valve
- both pressure sets are connected to the manifold via a flow through valve
- a flow through membrane tank, mounted on a special flow through T-piece

The booster-set is equipped with a switch box with the Megacontrol control system. Each pump is equipped with a frequency inverter. The switch-box is by default equipped with the following failure contacts:

- tensionless contact "urgent" (red LED)
- tensionless contact "not urgent" (orange LED)

4 Accessories

4.1 Accessories

Art. number	Option
OV10020122	Manifolds with a bend for the last pump HU2 DPV(M)E 2, 4 en 6
OV10020123	Manifolds with a bend for the last pump HU3 DPV(M)E 2 en 4
OV10020124	Manifolds with a bend for the last pump HU3 DPV(M)E 6
OV10020125	Manifolds with a bend for the last pump HU2 DPVE 10
OV10020126	Manifolds with a bend for the last pump HU3 DPVE 10
OV10020130	Suction manifold connection LEFT (standard is RIGHT)
OV10020131	Discharge manifold connection LEFT (standard is RIGHT)
OV10020132	Discharge manifold connection HR unit RIGHT (standard LEFT)
OV10020317	Switch box wall mounting HU2 ¹ , only DPC, not for HR
OV10020318	Switch box wall mounting HU3 ¹ , only DPC, not for HR
OV10020414	Supply voltage 1*230 V HU3 DPVE, only DPC, not for HR
OV10020421	Supply voltage 1*230 V HU2 DPVE, only DPC, not for HR
OV10020608	Terminal in switch box instead of a pressure switch as run-dry protection ²
OV10022554	1 room temperature sensor PT1000 and WSD
OV10022555	Level control by means of level control excluding pressure transmitter ³
OV10022556	Level control by means of electrode pins ⁴
OV10022790	Extra costs Emergency - 0 - Automatic Switch per pump HU2 DPC
OV10022791	Extra costs Emergency - 0 - Automatic Switch per pump HU3 DPC
OV10022792	Extra costs Emergency - 0 - Automatic Switch per pump HU2 MC
OV10022793	Extra costs Emergency - 0 - Automatic Switch per pump HU3 MC
OV10022796	Extra costs Failure and Run terminal per pump HU2 DPC
OV10022797	Extra costs Failure and Run terminal per pump HU3 DPC
OV10022798	Extra costs Failure and Run terminal per pump HU2 MC
OV10022799	Extra costs Failure and Run terminal per pump HU3 MC
OV10022800	Extra costs for finishing HU2/3 DPV(M)E MCMF English
OV10022801	Extra costs for finishing HU2/3 DPV(M)E DPC English
OV10022805	Extra costs for finishing HU2/3 DPV(M)E MCMF French
OV10022806	Extra costs for finishing HU2/3 DPV(M)E DPC French
OV10023000	Test report plus parameter list
CEHU002201	Certificate booster 2.2 DP Pumps EN
CEHU002202	Certificate booster 2.2 DP Pumps NL
CEHU002203	Certificate booster 2.2 Duijvelaar Pompen EN
CEHU002204	Certificate booster 2.2 Duijvelaar Pompen NL
CEHU003101	Certificate booster 3.1 DP Pumps EN
CEHU003102	Certificate booster 3.1 DP Pumps NL
CEHU003103	Certificate booster 3.1 Duijvelaar Pompen EN
CEHU003104	Certificate booster 3.1 Duijvelaar Pompen NL
CEHU003201	Certificate booster 3.2 DP Pumps and customer EN
CEHU003202	Certificate booster 3.2 DP Pumps and customer NL
CEHU003203	Certificate booster 3.2 Duijvelaar Pompen and customer EN
CEHU003204	Certificate booster 3.2 Duijvelaar Pompen and customer NL

1. Including wall mounting brackets, cable length 5 m.
2. A device with a switch contact that trips at interruption of the water supply to the installation is to be connected to the terminal strip (e.g. a float switch or a pressure switch)
3. Only possible for units with MCMF control with max. 2 pumps!
4. Only possible for units with DPC control.



4.1.1 Mounting sets AISI

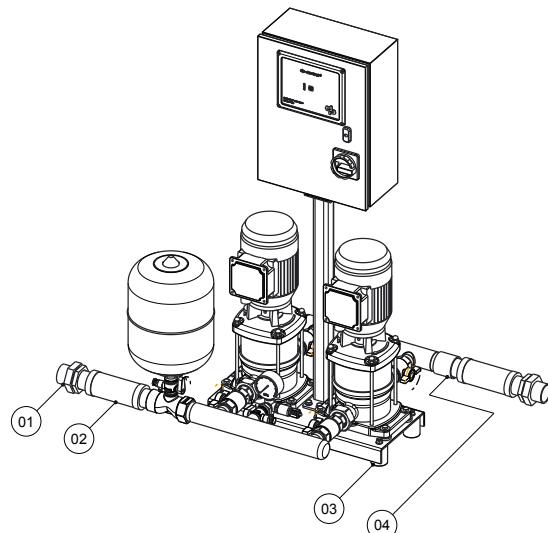


Figure 67: Mounting set AISI

Table 64: Components of mounting set

Item	Part
1	3-part coupling Inner thread x Cap ¹
2	expansion joint
3	Silent blocks
4	(reducing) socket

- Set 71100153 ends with a flange instead of a 3-part coupling

Table 65: HU mounting set AISI

Article number	Mounting set Hydro-unit
71100148	From: G 6/4 To: 35 mm (G 5/4)
71100149	From: G 6/4 To: 42 mm (G 6/4)
71100150	From: G 2 To: 54 mm (G 2)
71100151	From: G 2 To: 42 mm (G 6/4)
71100153	From: G 2 To: NW65 (flange)
71100180	From: G 6/4 To: G 5/4 Inner thread
71100181	From: G 6/4 To: G 6/4 Inner thread
71100182	From: G 2 To: G 2 Inner thread
71100183	From: G 2 To: G 6/4 Inner thread

4.1.2 Mounting sets Rubber

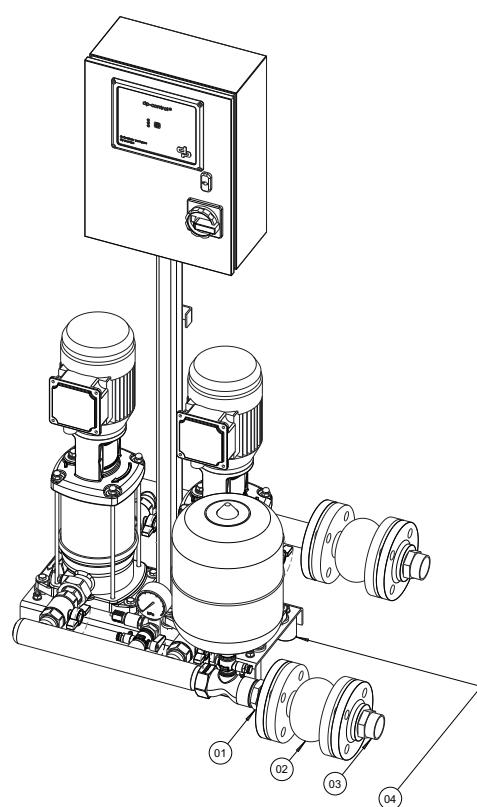


Figure 68: Mounting set Rubber

Table 66: Components of mounting set

Item	Part
1	Flange (inner thread)
2	expansion joint
3	(reducing) socket
4	Silent blocks

Table 67: HU mounting set AISI

Article number	Mounting set Hydro-unit
71100184	From: G 6/4 (NW25) To: Cap 28mm or NW25 or G 1 Inner thread PN16(50°C max)
71100185	From: G 6/4 (NW32) To: Cap 35mm or NW32 or G 5/4 Inner thread PN16(50°C max)
71100186	From: G 6/4 (NW40) To: CAP 42mm or NW40 or G 6/4 Inner thread PN16(50°C max)
71100187	From: G 2 (NW50) To: Cap 54mm or NW50 or G 2 Inner thread PN16(50°C max)
71100188	From: G 2 (NW40) To: CAP 42mm or NW40 or G 6/4 Inner thread PN16(50°C max)
71100189	From: G 5/2 (NW65) To: CAP 67mm or NW65 or G 5/2 Inner thread PN16(50°C max)

4.1.3 Pressure reducing valves

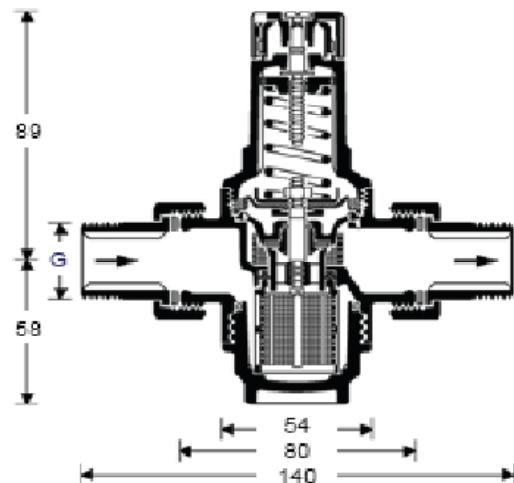


Figure 69: Pressure reducing valve (DO6 ..)

3242/24072008

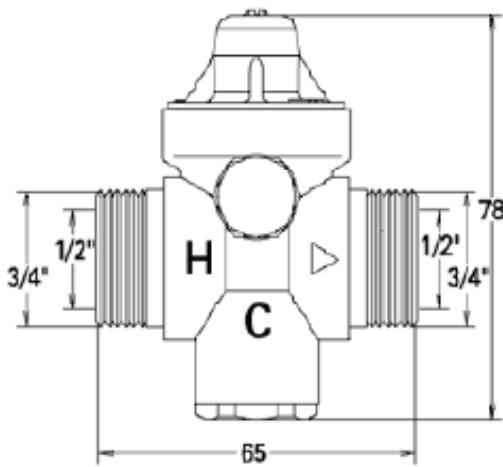


Figure 70: Pressure reducing valve (73220023)

3243/24072008

Table 68: Data pressure reducing valves

Article number	Connection	Mating dimensions	Dimensions	Type	Bore	Pressure class/ range	Specific materials	Model
73220016	BU	G 1/2	L = 140 mm	1.5-6 bar D06F	DN15	PN16	MS	~
73220017	BU	G 1/2	L = 140 mm	0.5-2 bar D06FN	DN15	PN16	MS	~
73220019	CAP	22 mm	L = 160 mm	1.5-12 bar D06FH	DN20	PN25	MS	~
73220020	CAP	22 mm	L = 160 mm	1.5-6 bar D06F	DN20	PN16	MS	~
73220022	BU	G 3/4	L = 160 mm	1.5-6 bar D06F	DN20	PN16	MS	~
73220023	BU (BI)	3/4 (1/2)	L = 65 mm	1.5-5 bar	DN15	PN15	MS	
73220027	CAP	28 mm	L = 180 mm	1.5-6 bar D06F	DN25	PN16	MS	~
73220028	BU	G 1	L = 180 mm	1.5-6 bar D06F	DN25	PN25	MS	~
73220030	BU	G 1	L = 180 mm	1.5-12 bar D06FH	DN25	PN25	MS	~
73220034	CAP	35 mm	L = 200 mm	1.5-6 bar D06F	DN32	PN16	MS	~
73220035	BU	G 5/4	L = 200 mm	1.5-6 bar D06F	DN32	PN16	MS	~
73220036	BU	G 5/4	L = 200 mm	1.5-12 bar D06FH	DN32	PN25	MS	~
73220042	BU	G 6/4	L = 225 mm	1.5-6 bar D06F	DN40	PN16	MS	~
73220043	BU	G 6/4	L = 225 mm	1.5-12 bar D06FH	DN40	PN25	MS	~
73220944	CAP	42 mm	L = 225 mm	1.5-6 bar D06F	DN40	PN16	MS	~
73220952	CAP	54 mm	L = 255 mm	1.5-6 bar D06F	DN50	PN16	MS	~
73220953	BU	G 2	L = 255 mm	1.5-6 bar D06F	DN50	PN16	MS	~
73220954	BU	G 2	L = 255 mm	1.5-12 bar D06FH	DN50	PN25	MS	~
73220965	FLANGE	NW65	L = 290 mm	1.5-8 bar D15P	DN65	PN16	GG	pressure gauge(s) optional
73220980	FLANGE	NW80	L = 310 mm	1.5-8 bar D15P	DN80	PN16	GG	pressure gauge(s) optional
73220989	FLANGE	NW100	L = 350 mm	1.5-8 bar D15P	DN100	PN16	GG	pressure gauge(s) optional
73220990	FLANGE	NW125	L = 400 mm	1.5-8 bar D15P	DN125	PN16	GG	pressure gauge(s) optional

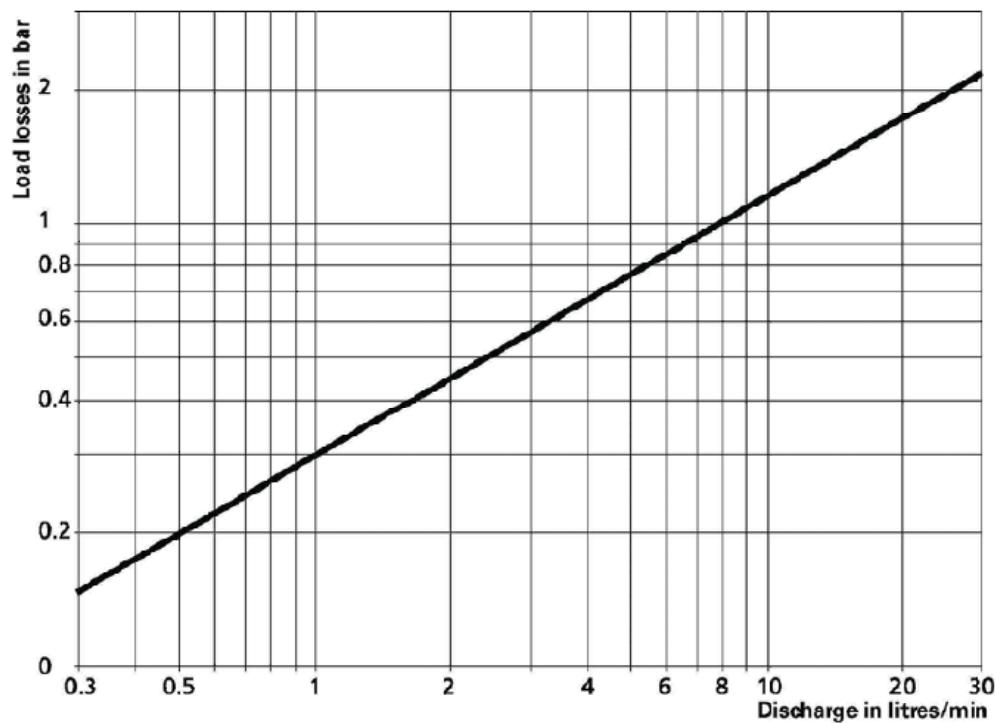


Figure 71: (73220023)

3244/24072008

K_{vs}-value Diagram

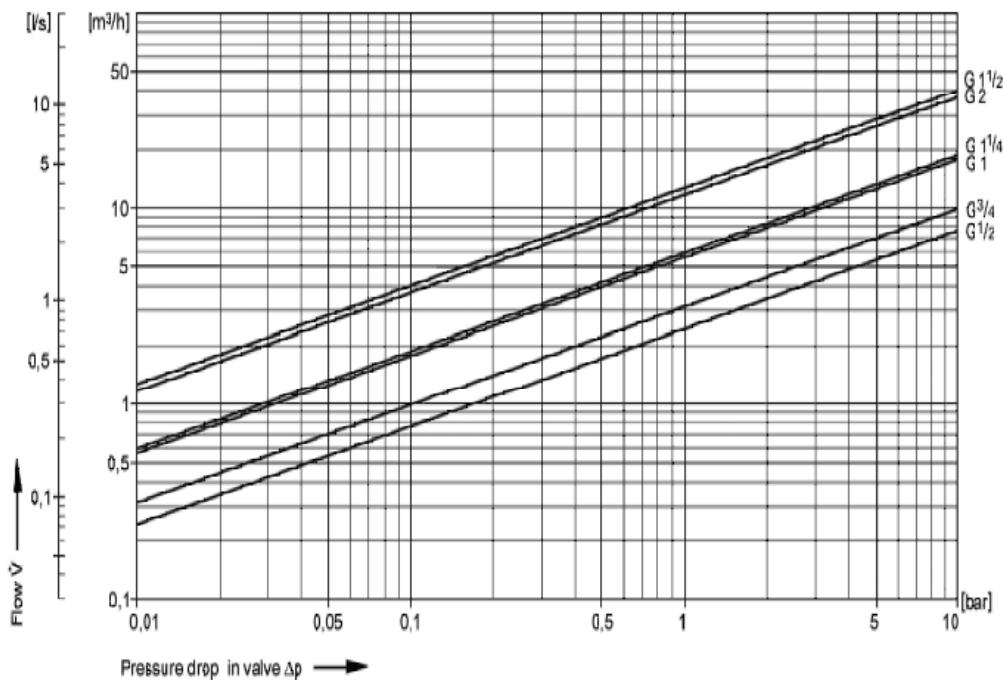


Figure 72: (DO6..)

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5 Annex

5.1 Structure of article numbers

Table 69: Structure of article numbers

Structure of article numbers											Design version
HU	1	2	3	4	5	6	7	8	9	10	
	2										2 pumps
	3										3 pumps
	1										VME
	2										VE
		2									2
		4									4
		6									6
		A									10
		B									15
			2								2 stages
			3								3 stages
			4								4 stages
			5								5 stages
			6								6 stages
			7								7 stages
			8								8 stages
			9								9 stages
			A								10 stages
			B								11 stages
			C								12 stages
			E								14 stages
				1							AISI 304 PN10
				2							AISI 304 PN16
				C							G 5/4
				D							G 6/4
				E							G 2
				K							G 2,5
					1						DPC
					2						DPC HR
					6						MCMF (FR)
						1					DOL
						2					SFT
						4					FRK
						5					FRP
							Q				COMPACT CONSTRUCTION (HU DPVE) Premium



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