



Units with two horizontal monobloc pumps derived from EN733 with stainless steel hydraulic parts.

### PUMP FEATURES

#### FIELD OF USE

- Maximum working pressure: 10 bar
- Temperature of the liquid: -10°C ÷ +110°C

#### MATERIALS

- Pump body, impeller, seal housing disc and shaft in AISI 304
- Mechanical seal in Carbon/Ceramic/NBR

#### TECHNICAL DATA

- Asynchronous motor, 2 poles
- Class of insulation F
- IP55 Protection rating
- 230±10% 50Hz single phase voltage, 230/400V ± 10% 50Hz three phase voltage up to 4 kW included, 400/690V ± 10% 5.5 kW and over three phase voltage
- Protection under the user's responsibility

#### TYPICAL APPLICATIONS

The base of the group is in galvanised steel as are the manifolds. The discharge manifold is set-up to gather any two vertical type membrane reservoirs. Two pressure switches, the electric control panel and a pressure gauge are mounted on it. On suction, each electric pump has an isolating valve and a non-return valve, with the possibility of connection to an air supply unit and has another isolating valve in discharge mode. The electric control panel is sustained by a relative support fixed to the base.

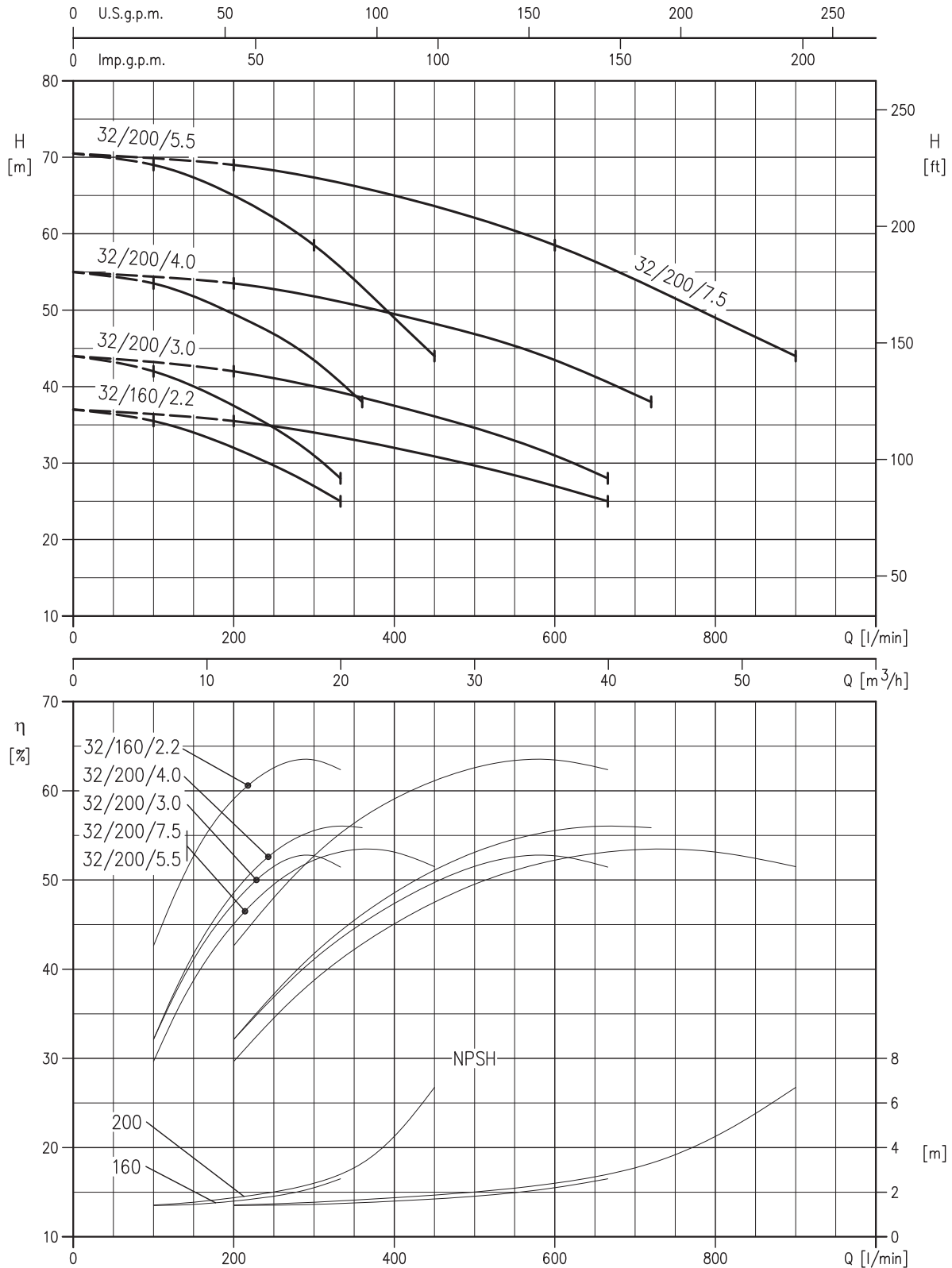
#### Protection and control panel with CE mark

- IMQ and VDE marked components
- Very low voltage auxiliary circuit
- Motor switch-on and switch-off are controlled by two pressure switches
- The connection to a float of minimum pressure pressure switch is possible in order to prevent functioning in conditions when there is no suction water
- A device is present that inverts the insertion order of the pumps at every start-up
- 400V, 50 Hz three phase power supply
- Start-up:
  - direct for powers up to 7.5 kW
  - delta/triangle for powers exceeding 7.5 kW
- Power circuit protection fuse
- Auxiliary circuit protection fuse
- Protection rating IP 55
- Line general isolating switch with door lock
- Aut. - 0 - man. switches for each pump
- Circuit breaker protection reset
- LED indicator:
  - network presence
  - motor running
  - level alarm
  - motor in protection mode (for three phase version only)
- Alarm output set-up
- On request, special version control panels can be used

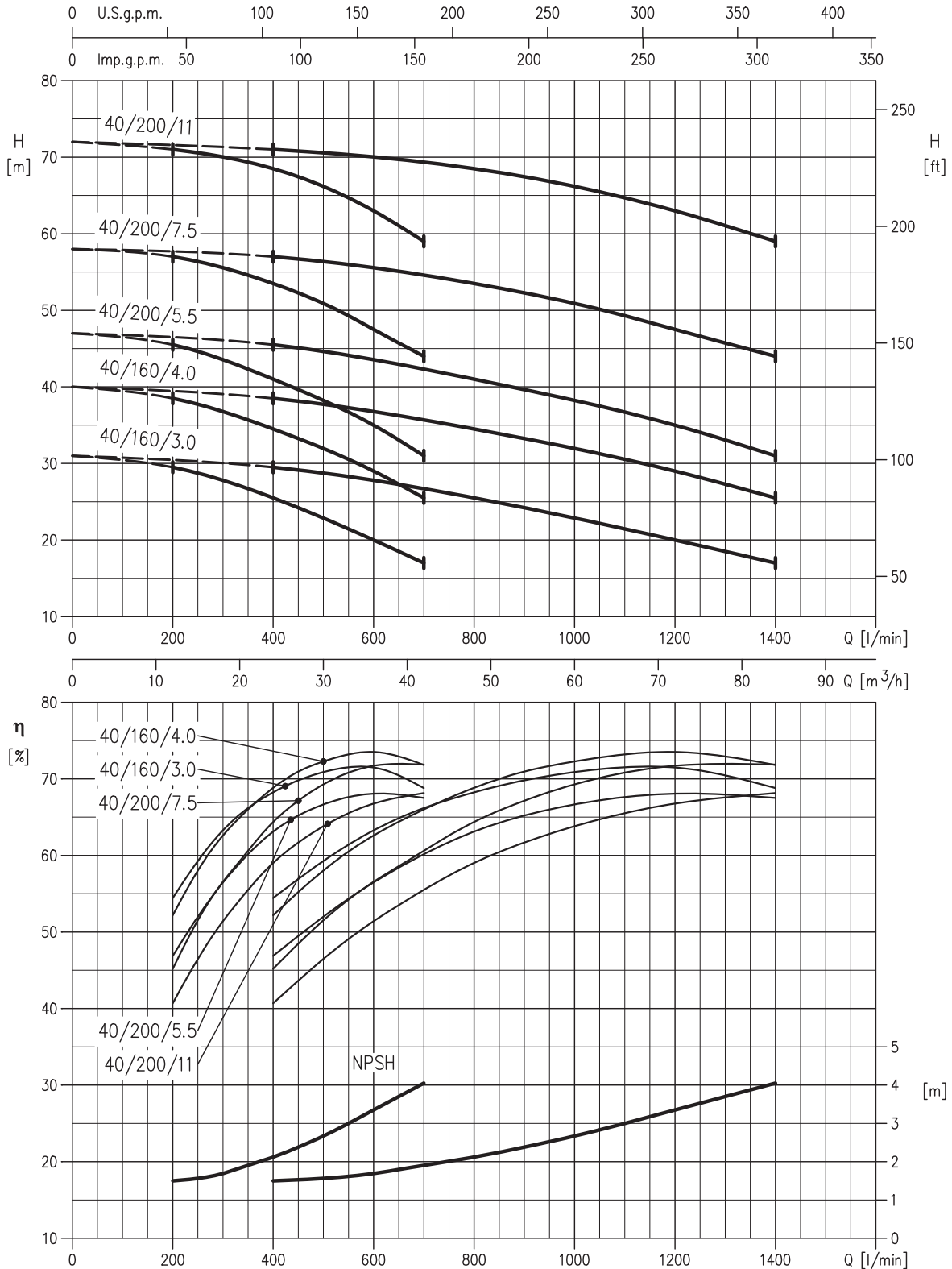
#### FUNCTIONING PRINCIPLES

The withdrawal or however the escape of water from the system with the pumps at a standstill, causes the pressure to drop and the consequent closure of the pressure switch contact with highest calibration, which determines start-up of the first electric pump. If the outlet discharge exceeds the flow rate of a pump, the pressure continues to drop until it causes the closure of the contact of the second pressure switch and the start-up of the second pump. The end of the distribution of the reduction of the outlet discharge leads to the pressure in the system rising, with opening of the pressure switch contacts and staggered pumps stops. The inversion of the ignition order of the two motors reduces the number of hourly start-ups of the individual pumps and consequently allows use of the same. By connecting a float or minimum pressure pressure switch to the control panel (whether for withdrawal from the primary collection reservoir or from the hydraulic circuit), the most frequent cause of electric pump breakdown is prevented: the lack of water at suction.

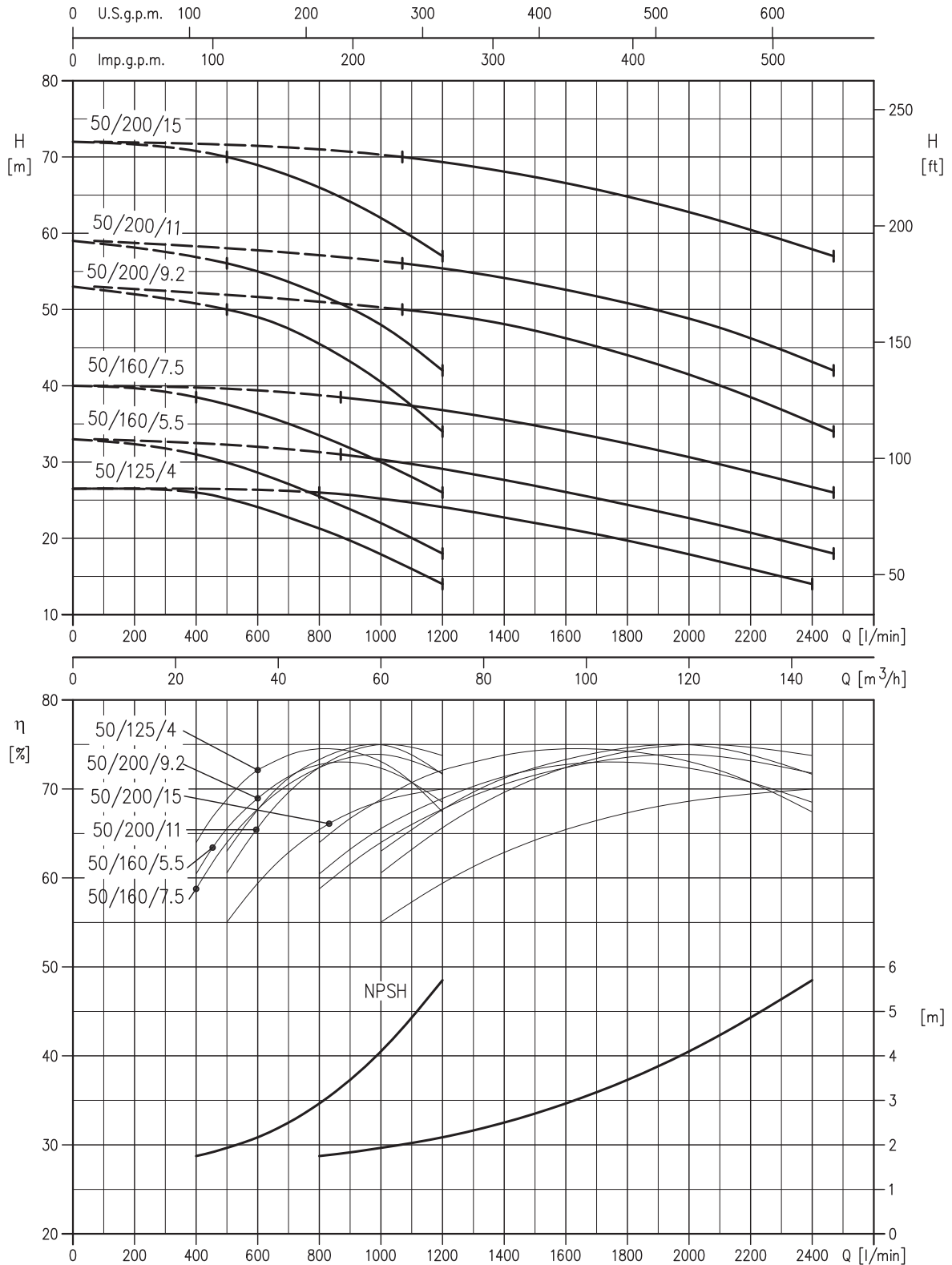
2GP 3M 32 RANGE PERFORMANCE CURVE (according to ISO 9906 Attachment A)



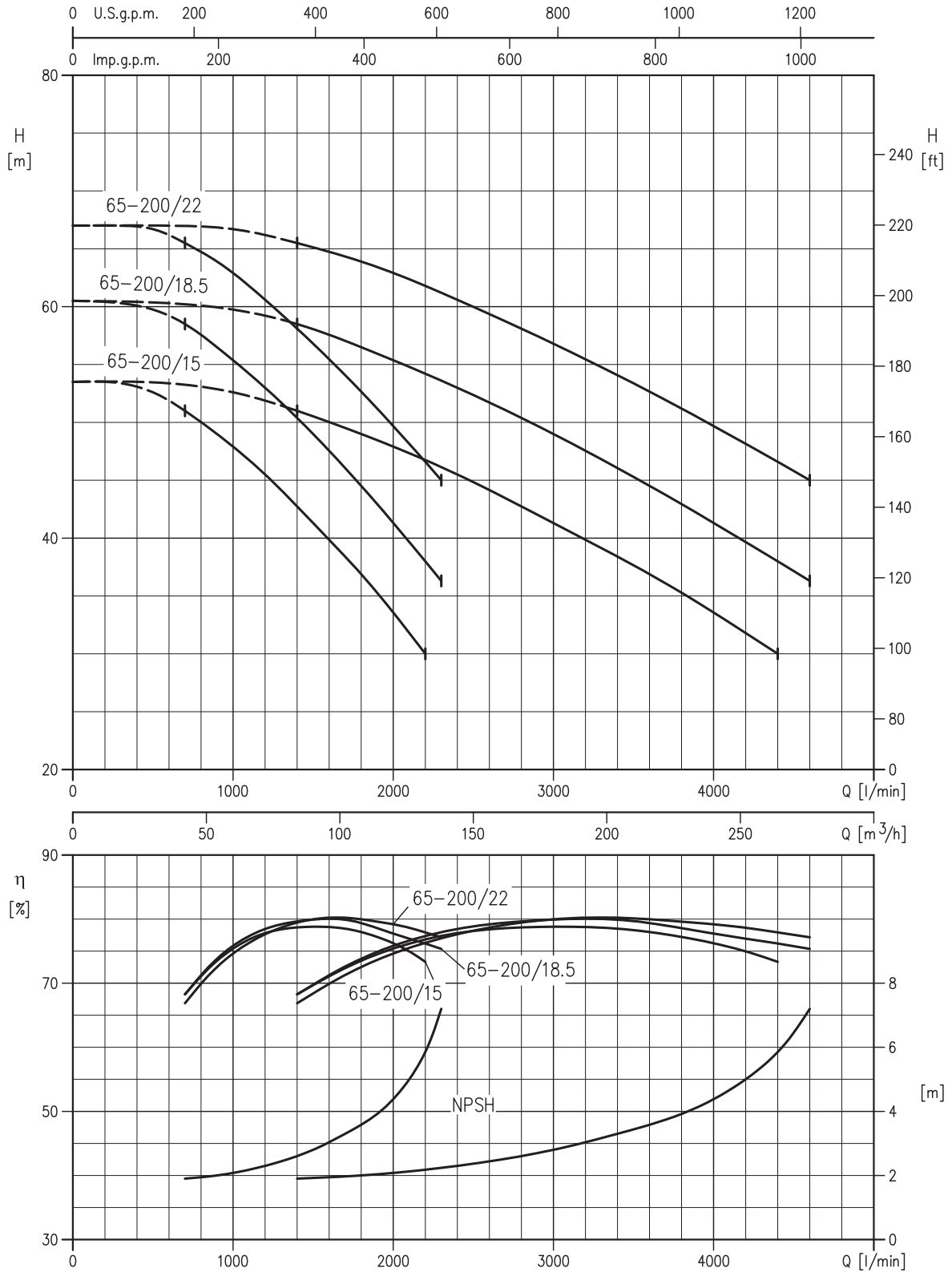
2GP 3M 40 RANGE PERFORMANCE CURVE (according to ISO 9906 Attachment A)



2GP 3M 50 RANGE PERFORMANCE CURVE (according to ISO 9906 Attachment A)



2GP 3M 65 RANGE PERFORMANCE CURVE (according to ISO 9906 Attachment A)

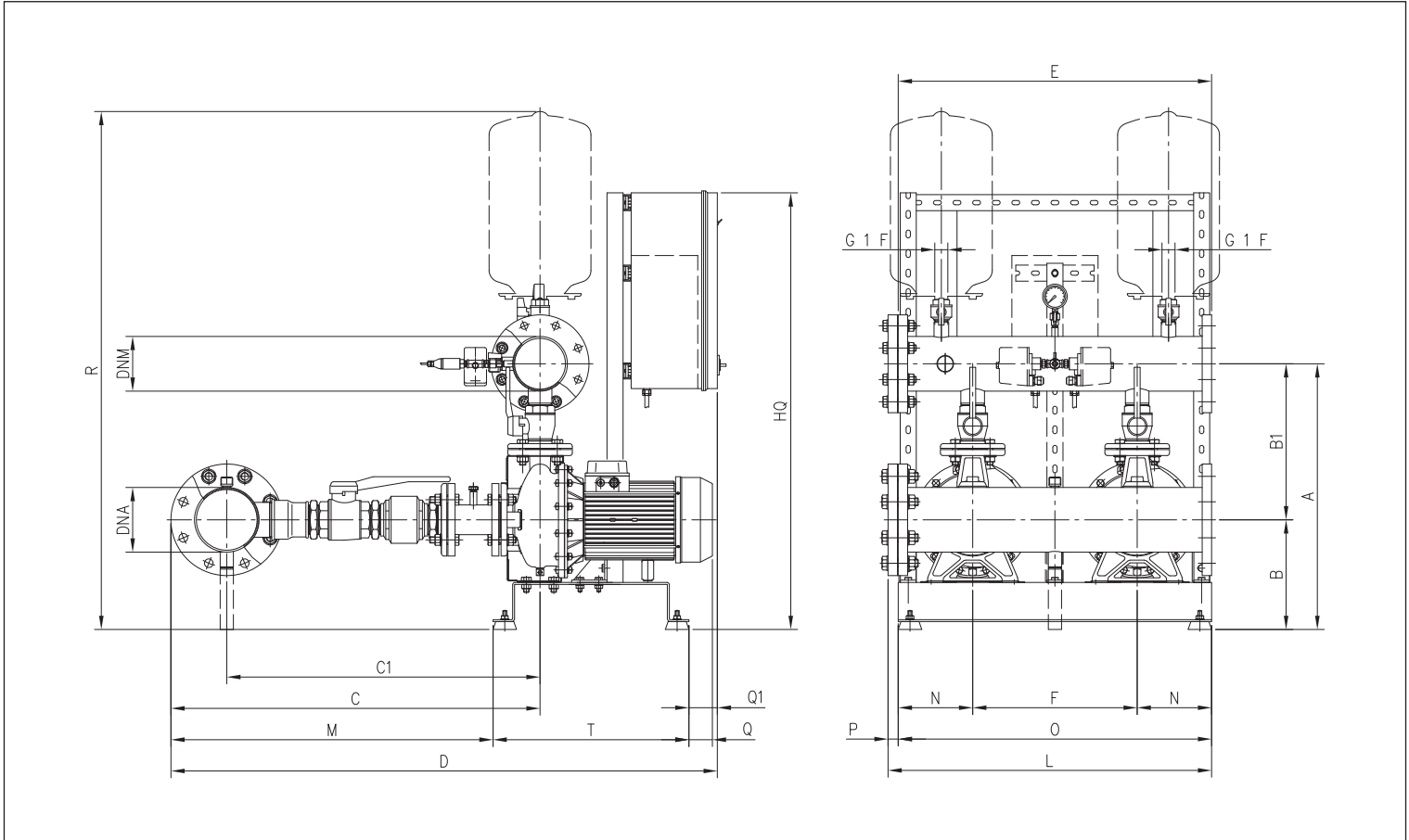


### PERFORMANCE TABLE AND ELECTRIC DATA OF THE TWO PUMPS FUNCTIONING SIMULTANEOUSLY

Model Three phase 400V	[kW]	Max abs. [A] 400V Three phase	l/min							Q=Flow rate							
			200	300	400	600	666	720	800	900	1000	1200	1400	1600	2000	2400	
			m <sup>3</sup> /h							H=Head [m]							
32-160/2.2	2,2+2,2	9,6	35,5	34,0	32,0	27,0	25,0	-	-	-	-	-	-	-	-	-	-
32-200/3.0	3+3	13	42,0	40,0	37,5	31,0	28,0	-	-	-	-	-	-	-	-	-	-
32-200/4.0	4+4	18,4	53,5	52,0	49,5	43,5	40,5	38,0	-	-	-	-	-	-	-	-	-
32-200/5.5	5,5+5,5	23,6	69,0	67,5	65,0	58,5	-	-	-	-	-	-	-	-	-	-	-
32-200/7.5	7,5+7,5	31,4	69,0	67,5	65,0	58,5	55,5	53,0	49,0	44,0	-	-	-	-	-	-	-
40-160/3.0	3+3	13	-	-	29,5	27,5	27,0	26,5	25,5	24,0	22,5	20,0	17,0	-	-	-	-
40-160/4.0	4+4	16,6	-	-	38,5	37,0	36,0	35,5	34,5	33,0	32,0	29,0	25,5	-	-	-	-
40-200/5.5	5,5+5,5	23,6	-	-	45,5	44,0	43,0	42,5	41,0	39,5	38,0	35,0	31,0	-	-	-	-
40-200/7.5	7,5+7,5	31,4	-	-	57,0	55,5	55,0	54,5	53,5	52,5	51,0	47,5	44,0	-	-	-	-
40-200/11	11+11	44	-	-	71,0	70,0	70,0	69,5	68,5	67,5	66,0	63,0	59,0	-	-	-	-
50-125/4	4+4	18,4	-	-	-	-	-	-	26,0	25,5	25,0	24,0	22,5	21,5	17,9	14,0	-
50-160/5.5	5,5+5,5	23,6	-	-	-	-	-	-	31,0	30,5	30,0	28,5	27,0	25,5	22,0	18,0	-
50-160/7.5	7,5+7,5	31,4	-	-	-	-	-	-	38,5	38,0	37,5	36,0	35,0	33,5	30,0	26,0	-
50-200/9.2	9,2+9,2	37,6	-	-	-	-	-	-	-	-	50,0	49,0	47,5	45,5	40,5	34,0	-
50-200/11	11+11	44	-	-	-	-	-	-	-	-	56,0	55,0	54,0	52,0	48,0	42,0	-
50-200/15	15+15	60	-	-	-	-	-	-	-	-	70,0	69,0	68,0	66,0	62,0	57,0	-

Model Three phase 400V	[kW]	Max abs. [A] 400V Three phase	l/min				Q=Flow rate					
			1400	1800	2600	3000	3400	3800	4200	4400	4600	
			m <sup>3</sup> /h				H=Head [m]					
65-200/15	15+15	60	51,0	49,0	44,0	41,5	38,4	35,3	31,8	30,0	-	-
65-200/18.5	18,5+18,5	78	58,5	56,5	51,5	49,0	46,0	43,0	39,7	38,0	36,3	-
65-200/22	22+22	84,6	65,5	64,0	59,5	57,0	54,0	51,0	48,0	46,5	45,0	-

### DIMENSIONS



### DIMENSIONS TABLE

Model	Dimensions [mm]																			Weight [kg]	
	A	B	B1	C	C1	D	DNA	DNM	E	F	HQ	L	M	N	O	P	Q	Q1	R		T
2GP(E) 3M 32-160/2.2	655	250	405	425	380	805	80	65	520	370	740	800	305	215	800	-	-	-	1280	500	103,0
2GP(E) 3M 32-200/3	705	280	425	425	380	805	80	65	520	370	790	800	305	215	800	-	-	-	1330	500	118,0
2GP(E) 3M 32-200/4	705	280	425	425	380	805	80	65	520	370	790	800	305	215	800	-	-	-	1330	500	133,0
2GP(E) 3M 32-200/5.5	705	280	425	425	380	820	80	65	520	370	790	800	305	215	800	-	15	-	1330	500	155,0
2GP(E) 3M 32-200/7.5	705	280	425	425	380	820	80	65	520	370	790	800	305	215	800	-	15	-	1330	500	155,0
2GP(E) 3M 40-160/3	605	250	355	785	660	1165	125	100	800	420	900	825	665	190	800	25	-	-	1235	500	168,0
2GP(E) 3M 40-160/4	605	250	355	785	660	1165	125	100	800	420	900	825	665	190	800	25	-	-	1235	500	183,0
2GP(E) 3M 40-200/5.5	655	280	375	805	680	1200	125	100	800	420	900	825	685	190	800	25	15	-	1285	500	216,0
2GP(E) 3M 40-200/7.5	655	280	375	805	680	1245	125	100	800	420	900	825	685	190	800	25	60	-	1285	500	230,0
2GP(E) 3M 40-200/11	620	245	375	805	680	1370	125	100	800	420	1050	880	570	230	880	-	-	-	1250	800	294,0
2GP(E) 3M 50-125/4	630	250	380	940	800	1320	150	125	800	420	790	825	820	190	800	25	-	-	1275	500	195,0
2GP(E) 3M 50-160/5.5	680	280	400	940	800	1335	150	125	800	420	900	825	820	190	800	25	15	-	1325	500	229,0
2GP(E) 3M 50-160/7.5	680	280	400	940	800	1380	150	125	800	420	900	825	820	190	800	25	60	-	1325	500	243,0
2GP(E) 3M 50-200/9.2	665	245	420	940	800	1500	150	125	800	420	1050	880	700	230	880	-	-	-	1310	800	269,0
2GP(E) 3M 50-200/11	665	245	420	940	800	1500	150	125	800	420	1050	880	700	230	880	-	-	-	1310	800	306,0
2GP(E) 3M 50-200/15	665	245	420	940	800	1655	150	125	800	420	1100	880	855	230	880	-	-	-	1310	800	360,0
2GP(E) 3M 65-200/15	950	265	685	1080	885	1780	250	200	800	400	1150	880	980	230	880	-	-	-	1635	800	396,0
2GP(E) 3M 65-200/18.5	950	265	685	1080	885	1780	250	200	800	400	1150	880	980	230	880	-	-	-	1635	800	521,0
2GP(E) 3M 65-200/22	950	265	685	1080	885	1780	250	200	800	400	1200	880	980	230	880	-	-	-	1635	800	520,0