



Units with two horizontal monobloc pumps derived from EN733 (FORMER DIN 24255) with stainless steel hydraulic parts.

PUMP FEATURES

FIELD OF USE

- Maximum working pressure: 10 bar
- Temperature of the liquid: -10°C ÷ +90°C

MATERIALS

- Pump body, impeller, seal housing disc and shaft in AISI 304
- Mechanical seal in Carbon/Ceramic/NBR (3 SERIES), in SiC/SiC/FPM (3L SERIES)
- H version mechanical seal in Carbon/Ceramic/Viton

TECHNICAL DATA

- Self-ventilated 2 and 4 pole asynchronous motor
- 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 relevant support fixed to the base.

TECHNICAL FEATURES

The control panels control pump number one at variable speeds and automatically start any other pumps, allowing to adjust system pressure on constant values. These particulars allow to increase the level of comfort, minimise management costs and reduce all air pre-load accumulation reservoirs to a minimum.

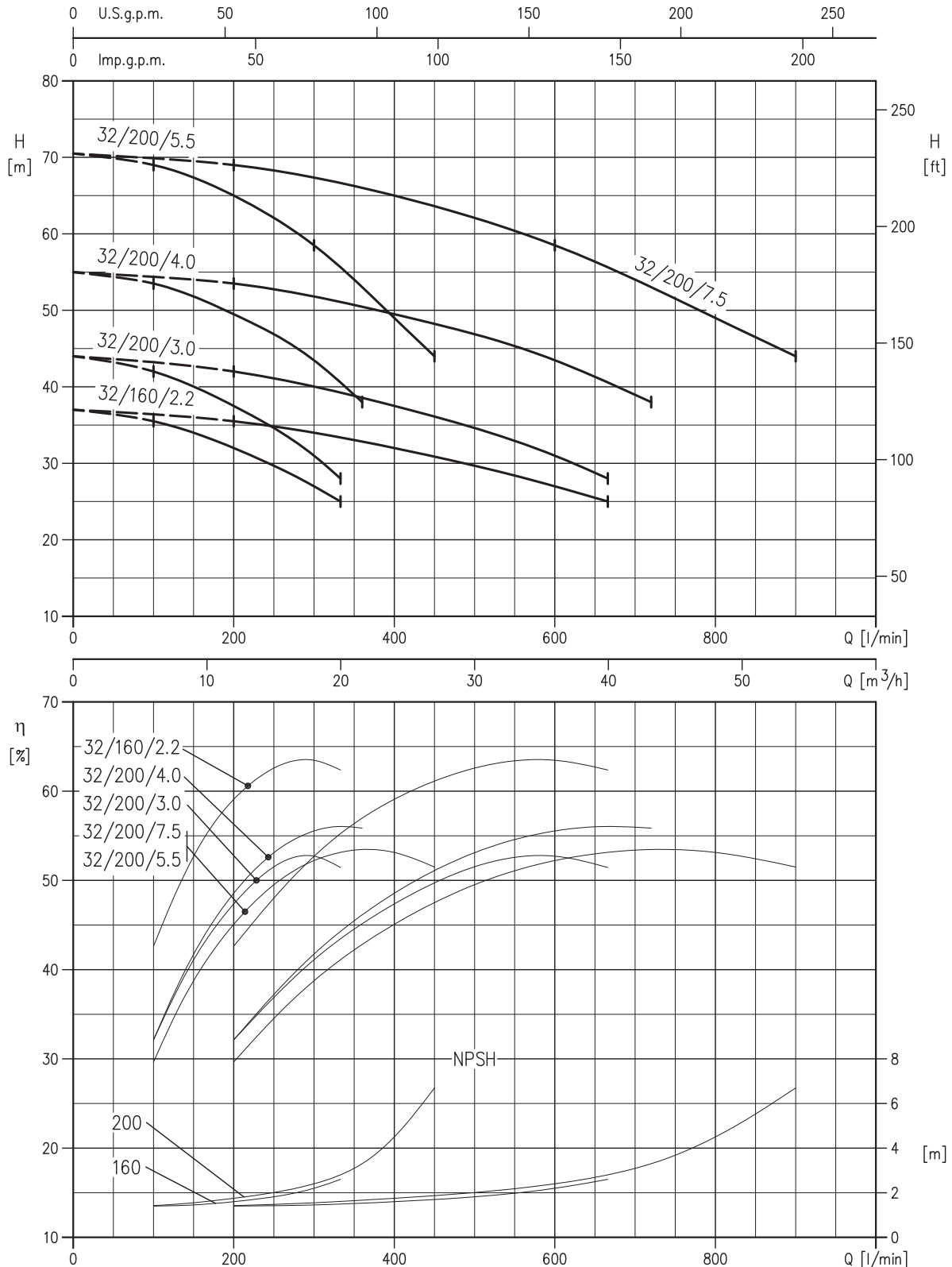
The typical applications of the GPE range pressure boosters with control panels are:

- Water provisioning for condominium, school, hotel hospital distribution networks etc.
- Water provisioning for industry in general
- Irrigation of gardens, parks and sports fields

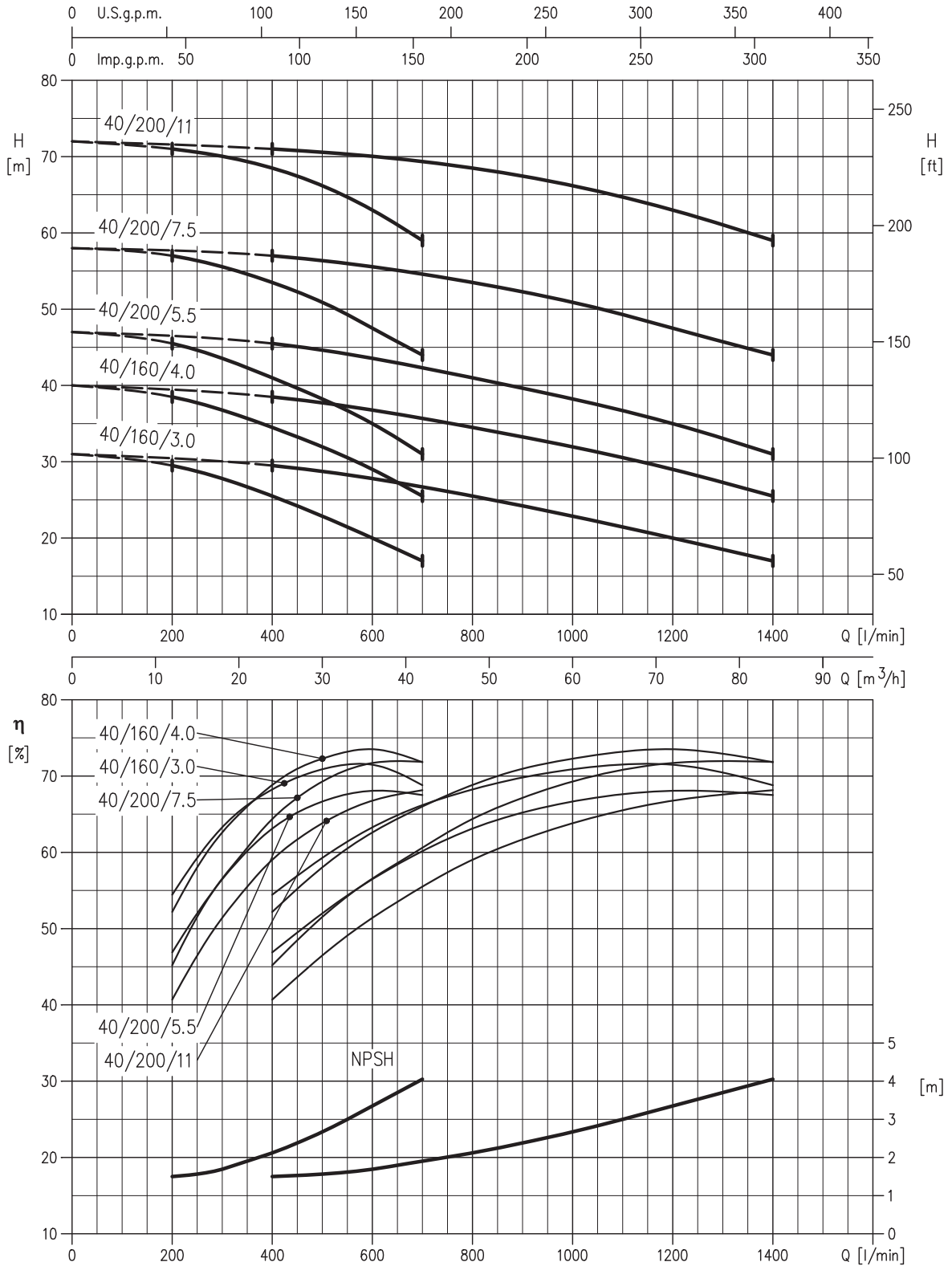
FUNCTIONING PRINCIPLES

- Functioning with PRESSURE-CONTROLLER: the unit responds to the control of the pressure transducer and the speed control via the pump number one inverter, maintaining the system pressure constant
- Double functioning possibility of every pump in AUTOMATIC, MANUAL OR pump EXCLUDED mode
- Pump motors protection against overloads, missing phase over/under voltage
- Pump protection against dry running
- Inverter protection against phase breakdowns, under/over voltage, earth faults, environment overheating
- Functioning of pump number one at variable speed via the inverter; automatic start-up via electro-mechanical contactors of the other pumps
- Automatic switch-over of functioning of pump number one and any other pumps, via electro-mechanical contactors and pressure switches, if the inverter should block
- Automatic switch-over every 24 hours of the powered pumps start-up order via electro-mechanical contactors

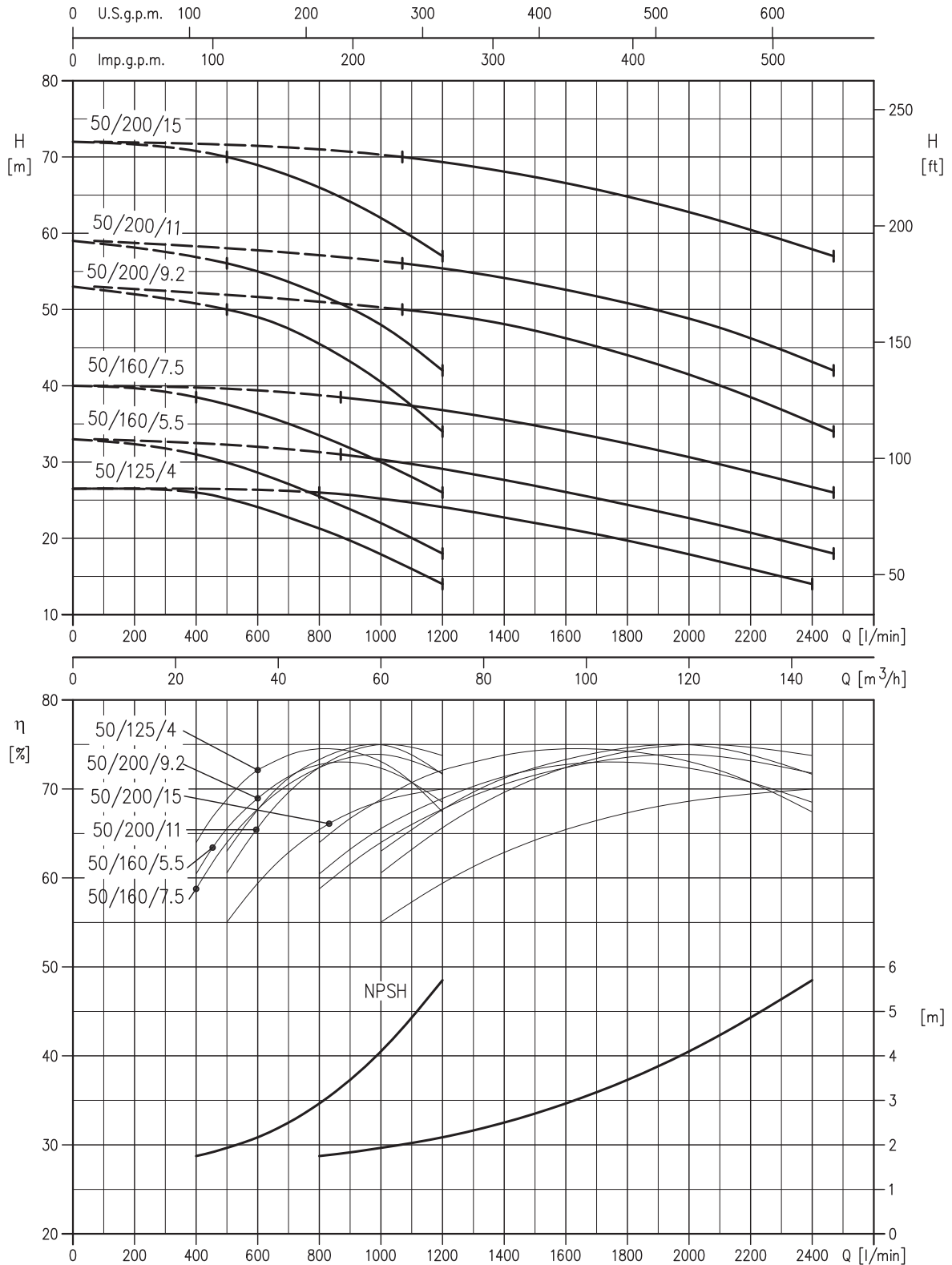
2GPE 3M 32 RANGE PERFORMANCE CURVE (according to ISO 9906 Attachment A)



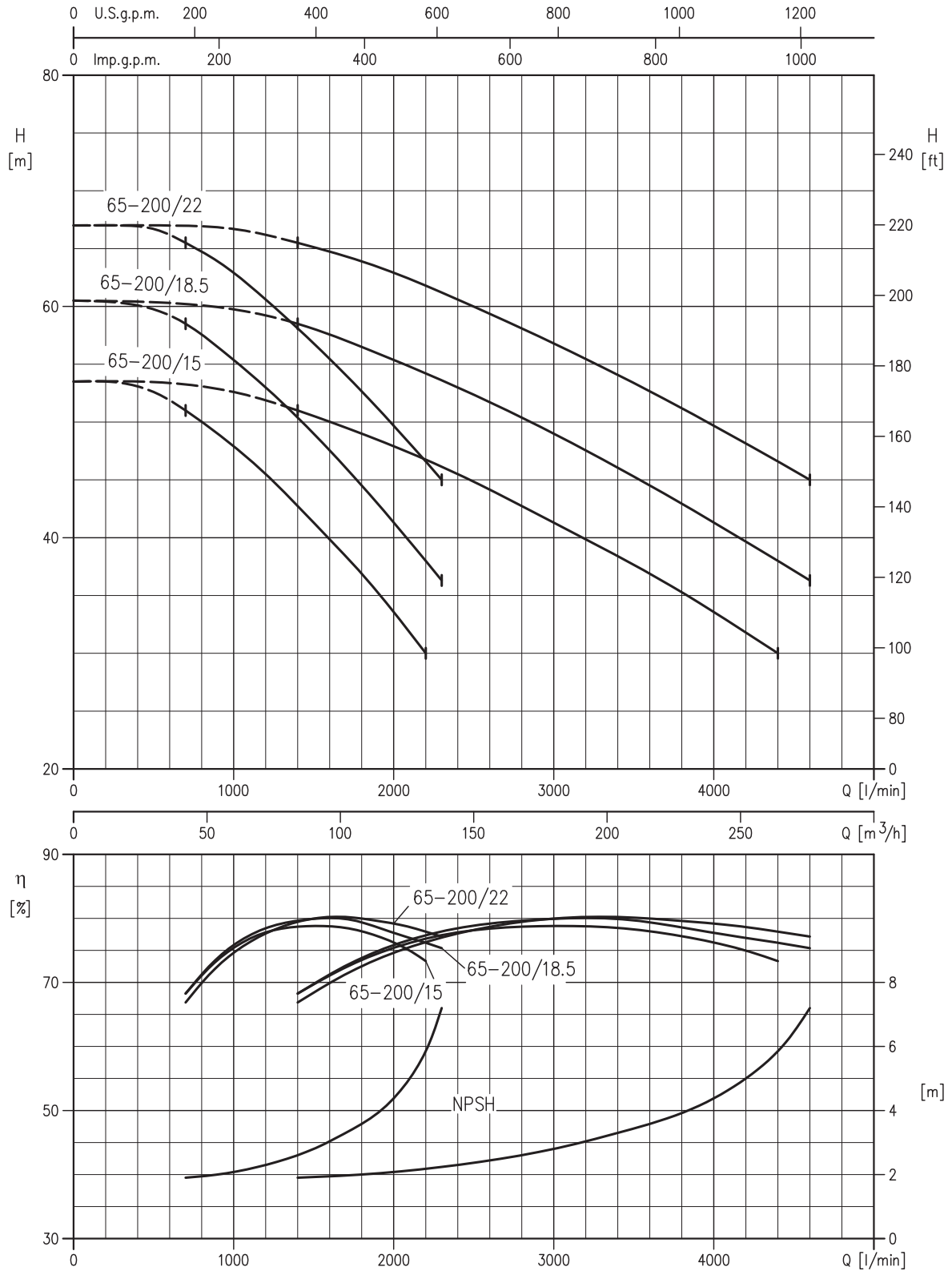
2GPE 3M 40 RANGE PERFORMANCE CURVE (according to ISO 9906 Attachment A)



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



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

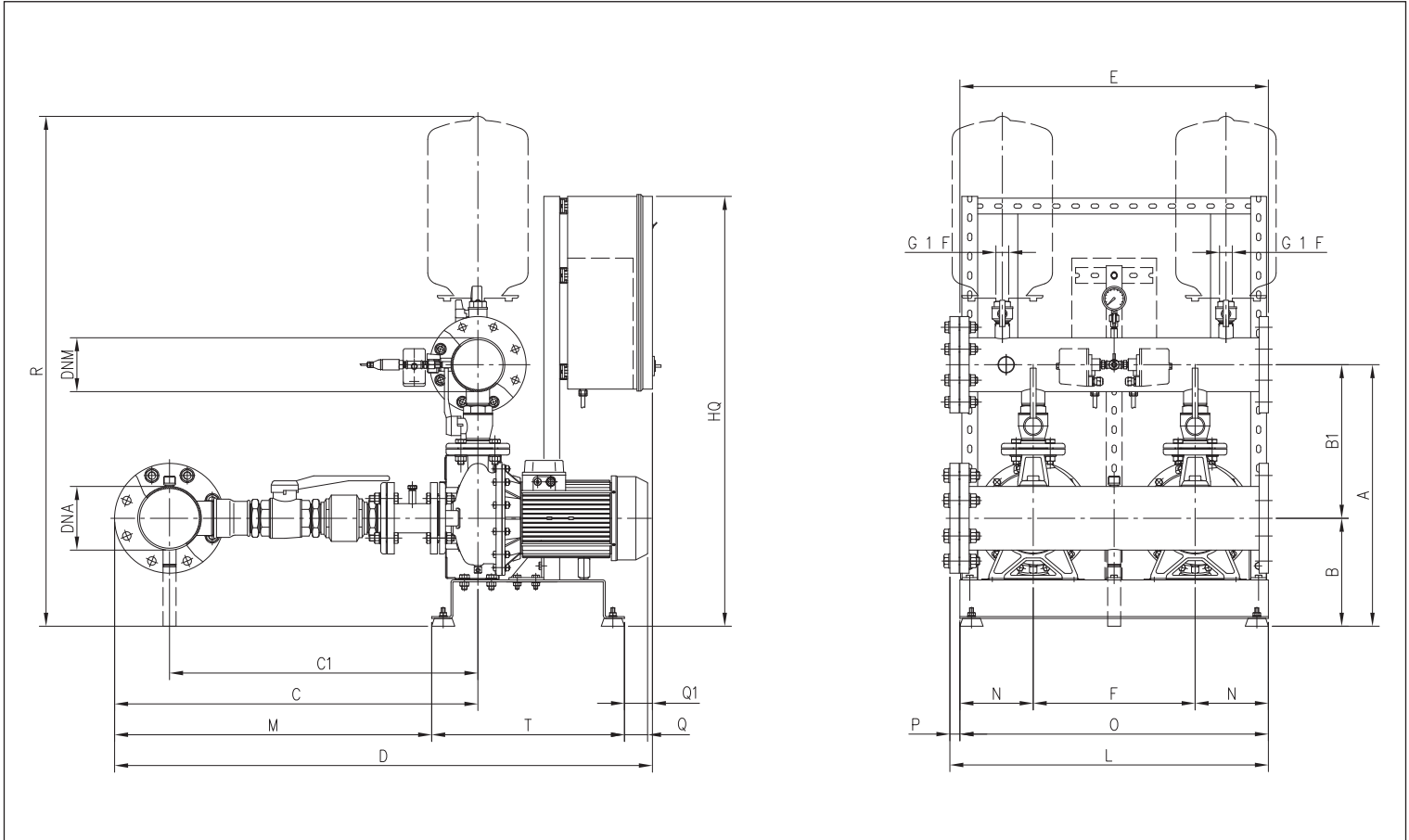


PERFORMANCE TABLE AND ELECTRIC DATA OF THE TWO PUMPS FUNCTIONING SIMULTANEOUSLY

| 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 ³ /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 ³ /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 |
| 2GPE 3M 32-160/2.2 (TWIN) | 655 | 250 | 405 | 425 | 380 | 840 | 80 | 65 | 520 | 370 | 875 | 800 | 305 | 215 | 800 | - | - | 35 | 1280 | 500 | 128,0 |
| 2GPE 3M 32-200/3 (TWIN) | 705 | 280 | 425 | 425 | 380 | 870 | 80 | 65 | 520 | 370 | 875 | 800 | 305 | 215 | 800 | - | - | 65 | 1330 | 500 | 143,0 |
| 2GPE 3M 32-200/4 (TWIN) | 705 | 280 | 425 | 425 | 380 | 870 | 80 | 65 | 520 | 370 | 875 | 800 | 305 | 215 | 800 | - | - | 65 | 1330 | 500 | 158,0 |
| 2GPE 3M 32-200/5.5 (SP) | 705 | 280 | 425 | 425 | 380 | 935 | 80 | 65 | 520 | 370 | 1180 | 800 | 305 | 215 | 800 | - | 15 | 130 | 1330 | 500 | 188,0 |
| 2GPE 3M 32-200/7.5 (SP) | 705 | 280 | 425 | 425 | 380 | 935 | 80 | 65 | 520 | 370 | 1180 | 800 | 305 | 215 | 800 | - | 15 | 130 | 1330 | 500 | 188,0 |
| 2GPE 3M 40-160/3 (TWIN) | 605 | 250 | 355 | 785 | 660 | 1230 | 125 | 100 | 800 | 420 | 875 | 825 | 665 | 190 | 800 | 25 | - | 65 | 1235 | 500 | 193,0 |
| 2GPE 3M 40-160/4 (TWIN) | 605 | 250 | 355 | 785 | 660 | 1230 | 125 | 100 | 800 | 420 | 875 | 825 | 665 | 190 | 800 | 25 | - | 65 | 1235 | 500 | 208,0 |
| 2GPE 3M 40-200/5.5 (SP) | 655 | 280 | 375 | 805 | 680 | 1280 | 125 | 100 | 800 | 420 | 1215 | 825 | 685 | 190 | 800 | 25 | 15 | 95 | 1285 | 500 | 249,0 |
| 2GPE 3M 40-200/7.5 (SP) | 655 | 280 | 375 | 805 | 680 | 1320 | 125 | 100 | 800 | 420 | 1215 | 825 | 685 | 190 | 800 | 25 | 60 | 135 | 1285 | 500 | 263,0 |
| 2GPE 3M 40-200/11 (SP) | 620 | 245 | 375 | 805 | 680 | 1370 | 125 | 100 | 800 | 420 | 1330 | 880 | 570 | 230 | 880 | - | - | - | 1250 | 800 | 348,0 |
| 2GPE 3M 50-125/4 (TWIN) | 630 | 250 | 380 | 940 | 800 | 1380 | 150 | 125 | 800 | 420 | 875 | 825 | 820 | 190 | 800 | 25 | - | 60 | 1275 | 500 | 228,0 |
| 2GPE 3M 50-160/5.5 (SP) | 680 | 280 | 400 | 940 | 800 | 1415 | 150 | 125 | 800 | 420 | 1215 | 825 | 820 | 190 | 800 | 25 | 15 | 95 | 1325 | 500 | 262,0 |
| 2GPE 3M 50-160/7.5 (SP) | 680 | 280 | 400 | 940 | 800 | 1425 | 150 | 125 | 800 | 420 | 1215 | 825 | 820 | 190 | 800 | 25 | 60 | 105 | 1325 | 500 | 276,0 |
| 2GPE 3M 50-200/9.2 (SP) | 665 | 245 | 420 | 940 | 800 | 1525 | 150 | 125 | 800 | 420 | 1330 | 880 | 700 | 230 | 880 | - | - | 25 | 1310 | 800 | 323,0 |
| 2GPE 3M 50-200/11 (SP) | 665 | 245 | 420 | 940 | 800 | 1525 | 150 | 125 | 800 | 420 | 1330 | 880 | 700 | 230 | 880 | - | - | 25 | 1310 | 800 | 360,0 |
| 2GPE 3M 50-200/15 (SP) | 665 | 245 | 420 | 940 | 800 | 1695 | 150 | 125 | 800 | 420 | 1360 | 880 | 855 | 230 | 880 | - | - | 40 | 1310 | 800 | 414,0 |
| 2GPE 3M 65-200/15 (SP) | 950 | 265 | 685 | 1080 | 885 | 1820 | 250 | 200 | 800 | 400 | 1370 | 880 | 980 | 230 | 880 | - | - | 40 | 1635 | 800 | 450,0 |
| 2GPE 3M 65-200/18.5 (SP) | 950 | 265 | 685 | 1080 | 885 | 1820 | 250 | 200 | 800 | 400 | 1370 | 880 | 980 | 230 | 880 | - | - | 40 | 1635 | 800 | 575,0 |
| 2GPE 3M 65-200/22 (SP) | 950 | 265 | 685 | 1080 | 885 | 1920 | 250 | 200 | 800 | 400 | 1770 | 880 | 980 | 230 | 880 | - | - | 140 | 1635 | 800 | 622,0 |