

Technical Data

Booster set name

2GPE MATRIX 3-6T/0,9 ESPM (UK)

| | | | |
|----------|------------|------------|-----------|
| Customer | Date | 05.04.2024 | Company |
| Contact | Item no. | | Issued by |
| Phone | Project | | Phone |
| E-mail | Project ID | | E-mail |

Requested data

| | | | | |
|---|-----------------------|-------------------------------|---------------------|-------------------------|
| 1 | Pump type | Booster Set | Fluid | Water |
| 2 | Number of pumps | 2 | Liquid temperature | °C 20 |
| 3 | Flow | m ³ /h | Kin. viscosity | cSt 1.005 |
| 4 | Head | m | Vapour pressure | kPa 2.34 |
| 5 | Geodetic head | m | PH value | |
| 6 | Inlet pressure | kPa 0 | Density | kg/m ³ 998.3 |
| 7 | Available system NPSH | Ask our technical department. | Solids | Weight % 0 |
| 8 | Ambient temperature | °C 20 | Installation height | m 100 |

Booster Set

| | | | | | |
|----|----------------------|-----------------------------------|-----------------------------------|-----------|-----------------------|
| 9 | Booster set name | 2GPE MATRIX 3-6T/0,9 ESPM (UK) | Frequency | Hz 50 | |
| 10 | Design | Booster Set | | | |
| 11 | Manufacturer | | Impeller Dia. | Max. | mm 99 |
| 12 | Speed | rpm 2850 | | Designed | mm 99 |
| 13 | No. of Stage | 6 | | Min. | mm 99 |
| 14 | Connection | Suction side UNI ISO 228 PN16 | Flow | Operating | m ³ /h |
| 15 | Connection | Discharge side UNI ISO 228 PN16 | | Max- | m ³ /h 4.8 |
| 16 | Max Working Pressure | kPa 1000 | | Min- | m ³ /h 1.2 |
| 17 | Shut-off head | kPa 663.85 | Head | Operating | m |
| 18 | Total weight | kg See the table of "Dimensions". | | - (Qmax.) | m 24.0 |
| 19 | Shaft power | kW | | - (Qmin.) | m 62.7 |
| 20 | | | Max. Shaft Power at max. impeller | kW 0.88 | |
| 21 | Required NPSH | m | Efficiency | % | |

Materials

| | | | | |
|----|-------------|------------------|----------------------|---------------------|
| 22 | Frame | Galvanized steel | External pump casing | AISI 304 |
| 23 | Manifold | AISI 304 | Shaft | AISI 304 |
| 24 | Check valve | Brass / NBR | Shaft seal | Ceramic/Carbon/EPDM |
| 25 | Ball valve | Brass / PTFE | O-ring | EPDM |
| 26 | Impeller | AISI 304 | | |
| 27 | Casing | AISI 304 | | |

Motor

| | | | | |
|----|----------------------|--------------------------------------|------------------|-------|
| 28 | Manufacturer | EPE Standard | Insulation class | F |
| 29 | Type | TEFC_MATRIX 3-6T/0.9_230_Three Phase | Phases | 3~ |
| 30 | Specific design | IE3 / 50 Hz / Pole pairs 1 | Frame size | |
| 31 | Rated power | kW 0.9 | Weight; motor | kg |
| 32 | Number of poles | 2 | Electric voltage | V 230 |
| 33 | Speed | rpm 2850 | Electric current | A 4.3 |
| 34 | Degree of protection | IP 55 | | |
| 35 | | | | |

Remarks

| |
|---------------------------------------|
| Item intended for the UK market only. |
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Performance curve

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Requested data

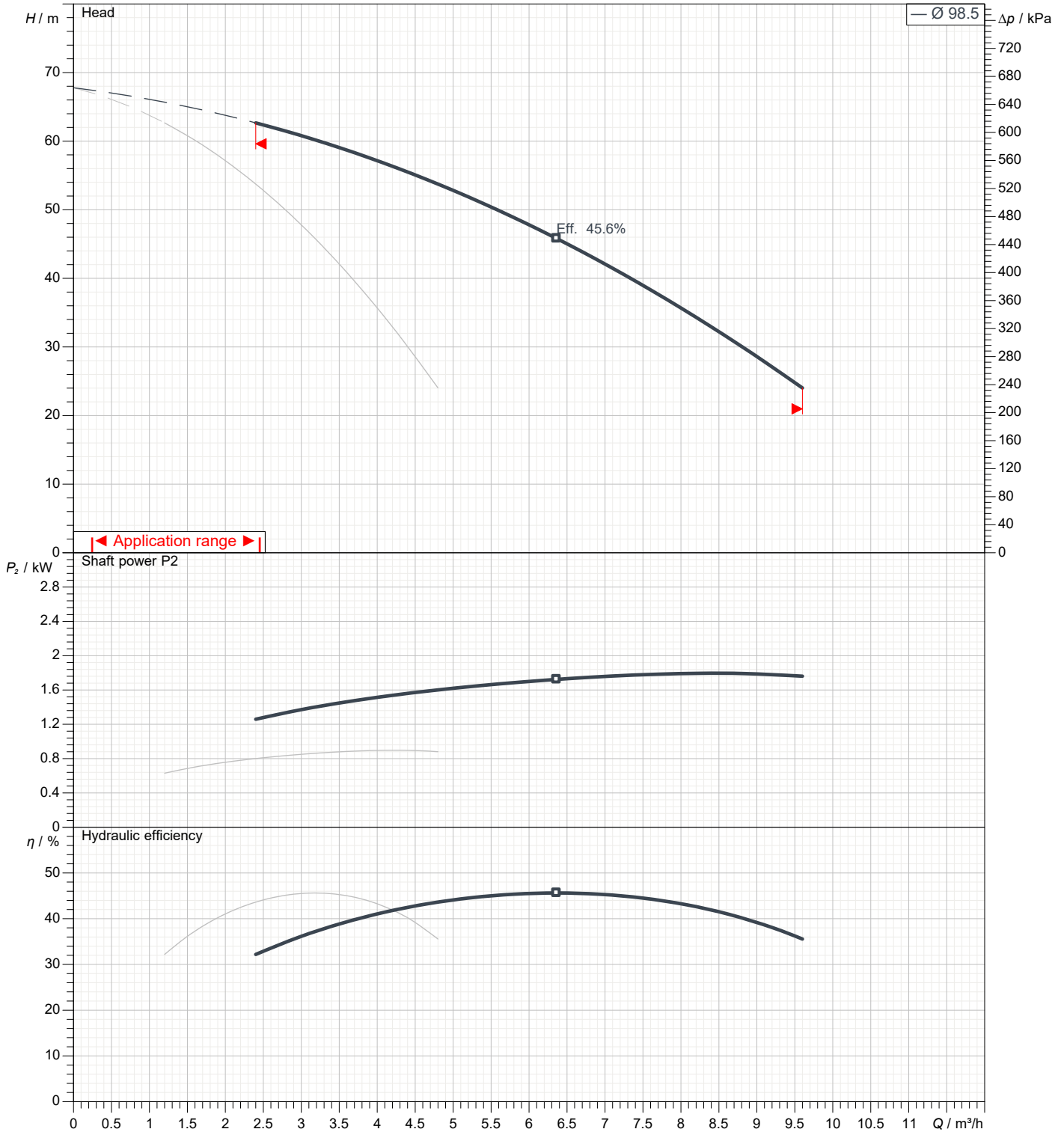
| | | | |
|---|---------------|------|--|
| 1 | Flow | m³/h | |
| 2 | Head | m | |
| 3 | Geodetic head | m | |

Booster set

| | | | | | |
|---------------------------|------|----|-----------------|-----|------|
| Operating flow | m³/h | | Frequency | Hz | 50 |
| Operating head | m | | Number of poles | | 2 |
| ImpellerDiameter Designed | mm | 99 | Speed | rpm | 2850 |

Test standard: ISO 9906:2012 - Grade3B

Water; 20°C; 998.3kg/m³; 1cSt

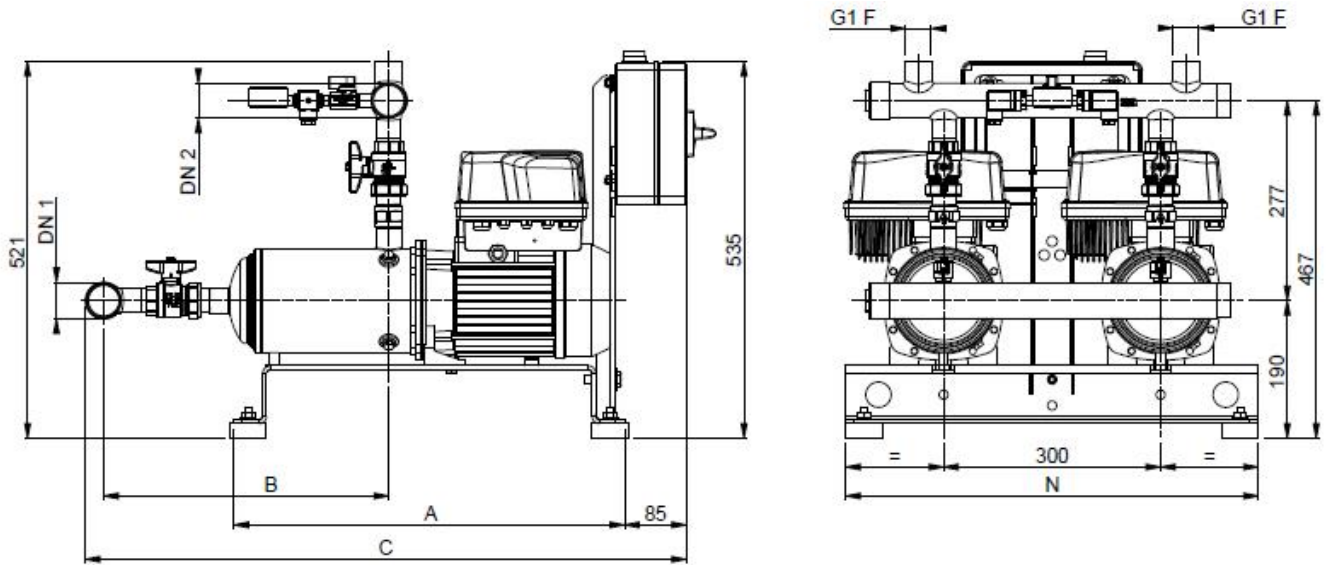


Dimensions

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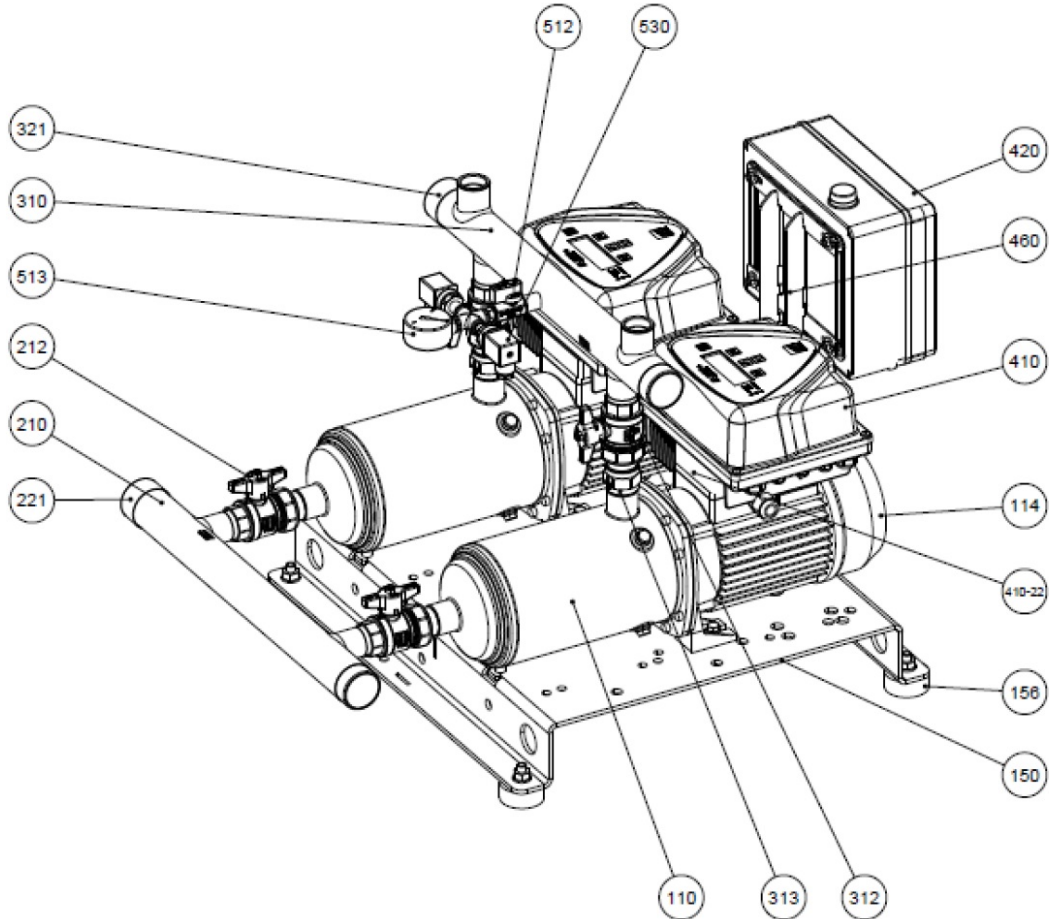
| Dimensions in | | mm | | | | | | |
|---------------|-----------|--------|--|--|--|--|--|--|
| 1 | A | 380 | | | | | | |
| 2 | B | 320 | | | | | | |
| 3 | C | 740 | | | | | | |
| 4 | DN1 | G1 1/2 | | | | | | |
| 5 | DN2 | G1 1/2 | | | | | | |
| 6 | N | 550 | | | | | | |
| 7 | Weight kg | 52 | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |

(1/2) Construction

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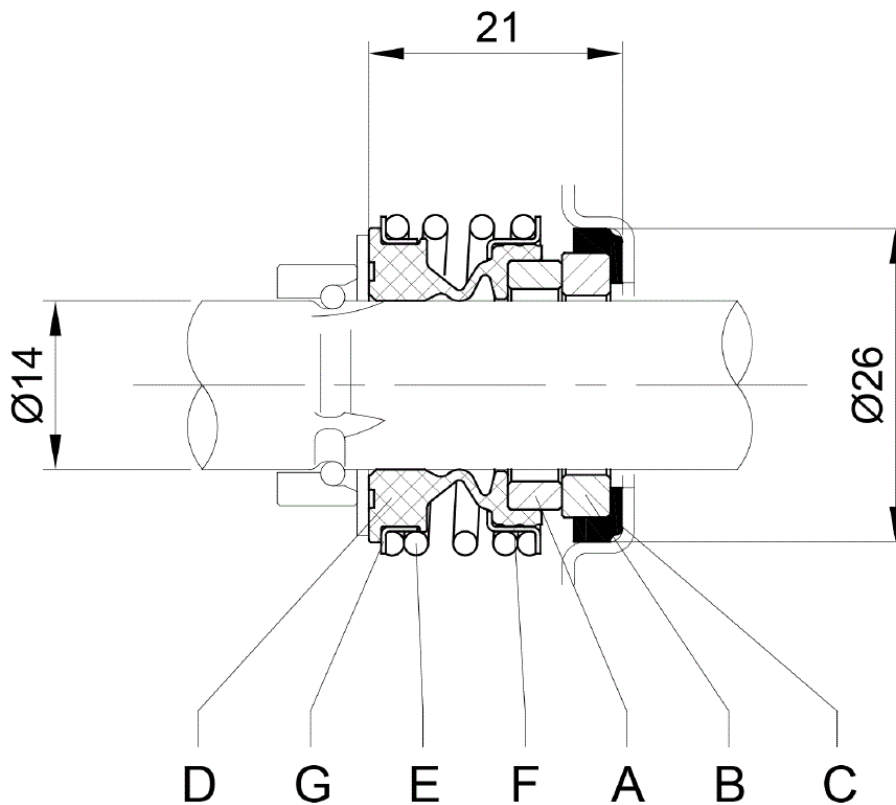
| N° | PART NAME | MATERIAL | Quantity |
|--------|------------------------|------------------------|----------|
| 110 | Principal pump | - | 2 |
| 114 | Electric motor | - | 2 |
| 150 | Baseplate | Galvanized steel | 1 |
| 156 | Baseplate foot | SBR | 4 |
| 210 | Suction manifold | AISI 304 | 1 |
| 212 | Union ball valve | Brass / P.T.F.E. | 2 |
| 221 | Threaded female cap | AISI 304 | 1 |
| 310 | Discharge manifold | AISI 304 | 1 |
| 312 | Union ball valve | Brass / P.T.F.E. | 2 |
| 313 | Check valve | Brass / NBR | 2 |
| 321 | Threaded female cap | AISI 304 | 1 |
| 410 | E-SPD+ | - | 2 |
| 410-22 | E-SPD+ adaptor | - | 2 |
| 420 | Protection panel | - | 1 |
| 460 | Protection panel frame | Galvanized steel | 1 |
| 512 | Ball valve | Brass / P.T.F.E. | 1 |
| 513 | Pressure gauge | Copper alloy / plastic | 1 |
| 530 | Pressure transmitter | - | 2 |

(2/2)
Construction

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MECHANICAL SEAL



| | A | B | C | Material | E | F | G |
|------------------|------------------|----------------------|--------|--------------|----------------------|----------------------|----------------------|
| | Rotary seal ring | Stationary seal ring | Gasket | D Bellows | Spring | Frame | Retainer ring |
| STANDARD* | Carbon | Ceramic | EPDM | EPDM | EN 1.4402 (AISI 316) | EN 1.4402 (AISI 316) | EN 1.4402 (AISI 316) |

*Approval for drinking water application
WRAS Approval product

