

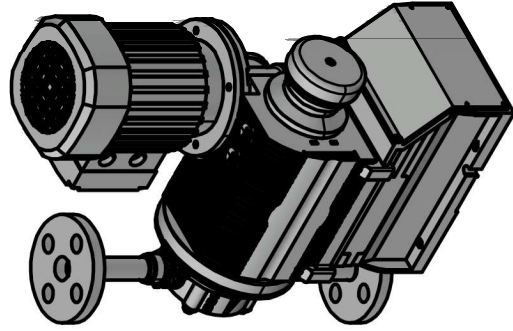
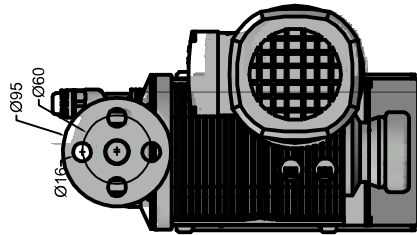
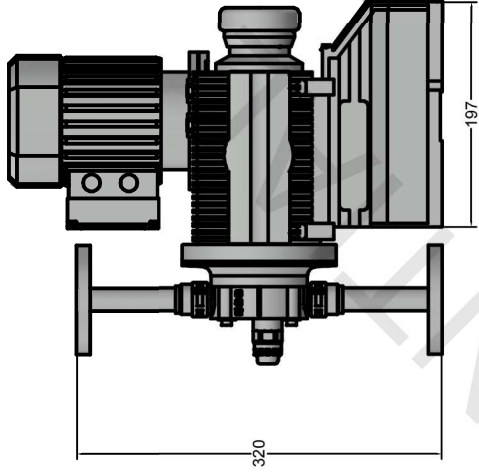
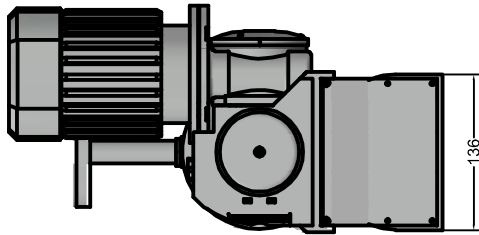


EQUIPMENT DATA SHEET

DOSING PUMPS

| | | | | | | | | |
|------------------------|----------------------|---|--|---------------------|----------------------------|--|---|----|
| GENERAL | 1 | Item No./Tag No | 00GNB76AP101, 00GNB76AP102 | | Number required | 2 (Incl. Spare) | | |
| | 2 | Equip. name | Acid Feed Pump A/B for Scrubber | | P & I -diagr. No. | TJB56-L3-OFF-C-GNB-M-PID-0014 | | |
| | 3 | Manufacturer | ProMinent | | | | | |
| | 4 | Model | S1BAH12035TTTS000R000 | | Location | <input type="checkbox"/> indoor <input type="checkbox"/> outdoor <input checked="" type="checkbox"/> shelter | | |
| | 5 | Country of Origin | Germany | | | <input type="checkbox"/> hazardous <input checked="" type="checkbox"/> non hazardous | | |
| OPERATING DATA | 6 | Pump type | <input type="checkbox"/> plunger head <input checked="" type="checkbox"/> diaphragm head | | Inspection class | | | |
| | 7 | Liquid pumped | H2SO4 (98%) | | NPSH min. available : | | | |
| | 8 | Special liquid properties | N/A | | - w/o acceleration head | [mliq] | | |
| | 9 | Operating temp. actual (OT) | [°C] | 31 | - with acceleration head | [mliq] | | |
| | 10 | Operating temp. min. / max. | [°C] | 22 / 41 | NPSH required | [mliq] | 3 | |
| | 11 | Density at OT | [kg/l] | 1.84 | | | | |
| | 12 | Dynamic viscosity at OT | [cP] | 13 | Plunger speed : | | | |
| | 13 | | | | - at rated capacity | [strokes/min] | 107 | |
| | 14 | | | | - at max. design cap. | [strokes/min] | 143 | |
| | 15 | Capacity rated | [lph] | 30 | | | | |
| 16 | Capacity min. / max. | [lph] | 0.6 / 40 | | | | | |
| FEATURES | 17 | Capacity control | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> | | For plunger heads : | N/A | | |
| | 18 | | <input type="checkbox"/> stroke <input checked="" type="checkbox"/> speed <input type="checkbox"/> by-pass | | - plunger diameter | [mm] | | |
| | 19 | Control signal | <input type="checkbox"/> pneumatic <input checked="" type="checkbox"/> electr. <input type="checkbox"/> Manual | | - stroke | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| | 20 | Suction Valve type | <input checked="" type="checkbox"/> ball <input type="checkbox"/> disc <input type="checkbox"/> conical | | - piston speed | [m/s] | | |
| | 21 | | <input checked="" type="checkbox"/> single <input type="checkbox"/> double | | For diaphragm heads : | | | |
| | 22 | Discharge valve Type : | <input checked="" type="checkbox"/> ball <input type="checkbox"/> disc <input type="checkbox"/> conical | | - diaphragm type | <input checked="" type="checkbox"/> single <input type="checkbox"/> double | | |
| | 23 | | <input checked="" type="checkbox"/> single <input type="checkbox"/> double | | - liquid between membranes | | | |
| | 24 | | | | - diaphragm diam. | [mm] | | |
| MATERIAL SPECIFICATION | 25 | Pump head body | PTFE (with 25% carbon) | | For plunger head : | N/A | | |
| | 26 | Pump head holder | PTFE (with 25% carbon) | | - Plunger | | | |
| | 27 | Valve | PTFE | | - Packing | | | |
| | 28 | Valve seat | PTFE | | | | | |
| | 29 | Valve guide | PTFE | | For diaphragm head : | | | |
| | 30 | Valve body | PTFE | | - Hydraulic diaphragm | | | |
| 31 | Valve gasket | PTFE | | - Process diaphragm | PTFE | | | |
| | | | | - Hydraulic plunger | | | | |
| ACCESSORIES | 32 | Base plate | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | Back pressure valve | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| | 33 | Diaphragm rupture monitor | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | Set pressure | 3 [bar] | | |
| | 34 | Suction strainer | <input type="checkbox"/> Yes <input type="checkbox"/> No | | Discharge side dampener | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| | 35 | Discharge relief valve | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | Type | <input type="checkbox"/> direct cont. <input checked="" type="checkbox"/> diapham <input type="checkbox"/> bladder | | |
| | 36 | Mfr/Model | BPV-DM-PTFE | | Speed variator | <input checked="" type="checkbox"/> mechanical <input type="checkbox"/> hydraulic | | |
| | 37 | Discharge relief valve set pressure | 5 [bar] | | Mfr. | | | |
| | | | | | | | | |
| CONNECTIONS | 38 | Nozzle | Size | Rating | Facing | Lubrication | <input type="checkbox"/> forced <input checked="" type="checkbox"/> splash <input type="checkbox"/> reducer | |
| | 39 | Suction | DN20 | ANSI 150# | Bottom | Flushing | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| | 40 | Discharge | DN20 | ANSI 150# | Top | Lubrication | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| | 41 | Via ECTFE Flange Adaptor | | | | Steam conn. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| | 42 | | | | | | | |
| TEST & SHIPPING INFO | 43 | SHOP TEST | | | | WEIGHT & SHIPPING INFORMATION | | |
| | 44 | <input checked="" type="checkbox"/> Non Witness Hydro <input type="checkbox"/> Witness Hydro | | | | Pump | [kg] | 12 |
| | 45 | <input type="checkbox"/> Non Witness NPSH <input type="checkbox"/> Witness NPSH | | | | Driver | [kg] | |
| | 46 | <input checked="" type="checkbox"/> Non Witness Performance <input type="checkbox"/> Witness Performance | | | | Accessories | [kg] | |
| | 47 | <input checked="" type="checkbox"/> Visual & Dimensional Inspection | | | | Total unit weight | [kg] | |
| | 48 | Shop Test Report will be provided. | | | | Total shipping weight | [kg] | |
| | 49 | | | | | Size of base plate | | |
| 50 | | | | | Max. shipping dim. (LxWxH) | | | |
| REMARKS | 51 | Calibration Column: Model Griffco CCG-500, Viton Elastomer, 1/2" Flange ANSI 150#, Qty: 1 per skid | | | | | | |
| | 52 | Pulsation Dampener: Model Blacoh CTK1005V-5 (RC-10K-V50), Qty: 1 per dosing point | | | | | | |
| | 53 | Back Pressure Valve: Model Prominent BPV-DM PTFE 1-10 bar 1/2" FNPT, Qty: 1 per dosing point | | | | | | |
| | 54 | Pressure Relief Valve: Model Prominent BPV-DM PTFE 1-10 bar 1/2" FNPT, Qty: 1 per dosing pump | | | | | | |
| | 55 | Motor Driven, with VFD | | | | | | |
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TAG NO.
00GNB76AP101
00GNB76AP102



NOTE:
1. ALL DIMENSIONS ARE MM UNLESS OTHERWISE SPECIFIED.

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Sembawang Centre
Singapore 740042

DESIGNED BY: B. Lim

PROJECT: 21-083000 Tropicallife Cold Feed Plant

DATE: 08/07/2024

TITLE: Cold Feed Pump A/B For Seawater

REV: 1

DATE: 08/07/2024

BY: B. Lim

SCALE: 1:1

CHK: B. Lim

APP: B. Lim

DATE: 08/07/2024

SCALE: 1:1

BY: B. Lim

SCALE: 1:1

CHK: B. Lim

SCALE: 1:1

DATE: 08/07/2024

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SCALE: 1:1

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