

STUART

VM 0300 Series Centrifugal Vertical Multistage Pumps

A range of 3m³/hour nominal flow vertical multistage pumps featuring a compact, robust design and heavy duty oversized motor bearing.

Featuring AISI 304 stainless steel pump head construction, these robust and durable pumps are available in single phase and three phase options.

Capable of flow rates up to 4.2 m³/h and models available providing up to 153 metres head, these pumps are suitable for use in a wide range of water boosting applications.



Features

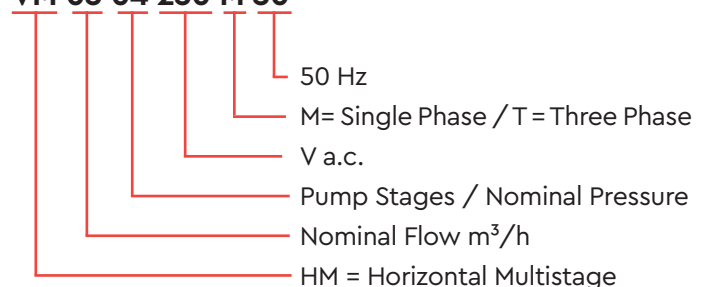
- Multistage centrifugal pump
- Flow rates up to 4.2 m³/h
- Heads up to 153 metres
- Single phase and three phase options
- Compact design
- Easy disassembly and seal replacement
- Standard mechanical seal (EN 12756 ex DIN 24960)
- Easy to replace floating neck rings and stainless steel impeller wear ring
- Oversize motor bearing
- Stainless steel pump head housing, shaft, impellers and diffusers
- Tungsten carbide shaft bearing, intermediate bearing and journal sleeve
- Continuously rated induction motor
- Efficiency class IE2/IE3
- 1 year warranty

Applications

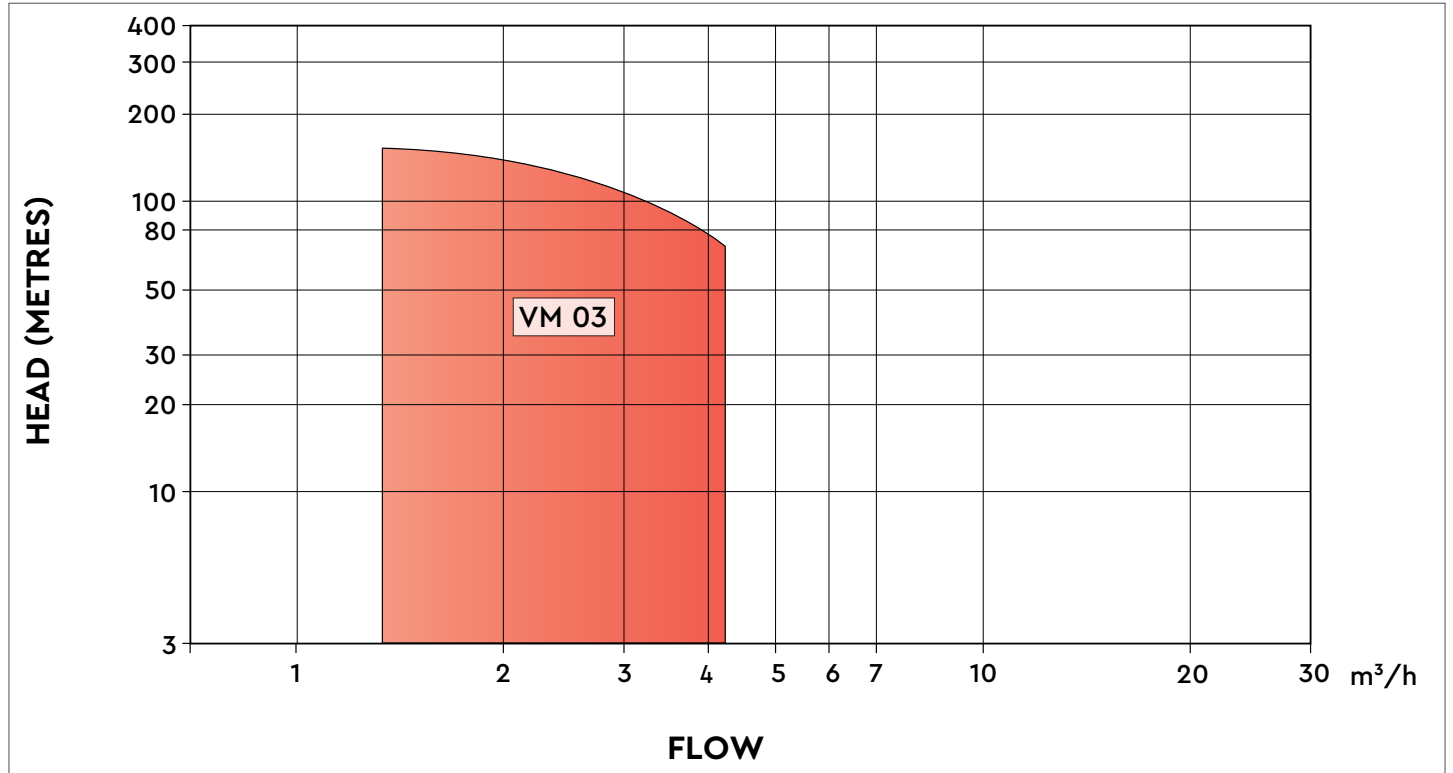
- Domestic and commercial water supply
- Industrial systems, plant and processing
- Wash down units
- Water distribution
- Irrigation and rainwater recovery
- Temperature control and air conditioning systems

Product Code

VM 03 04 230 M 50

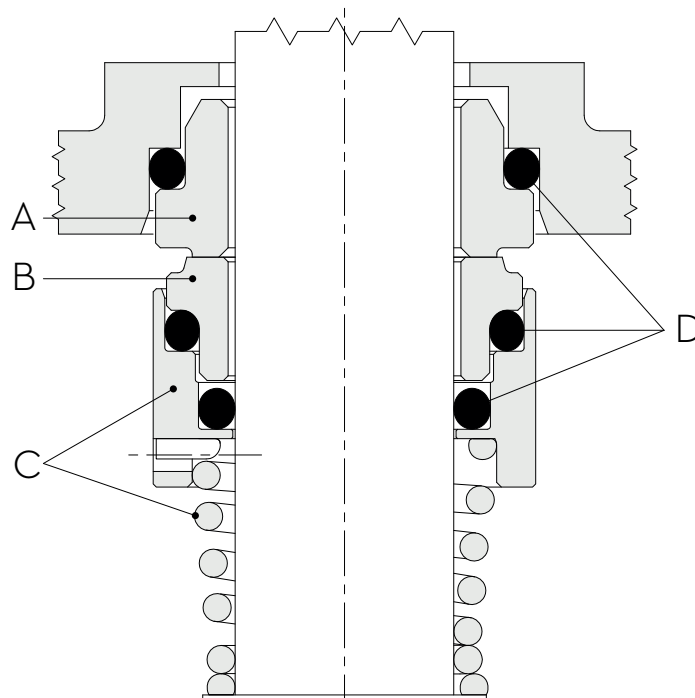


Stuart VM 0300 Series Performance Summary



| | | | Q = Delivery | | | | | | | | | |
|---------|-------------|------|-------------------------|-------|-------|-------|-------|-------|-------|-------|------|------|
| l/min | Rated Power | | H1 | 0 | 16.7 | 25 | 33.3 | 42 | 50 | 58.3 | 67 | 75 |
| m³/h | kW | Hp | Bar | 0 | 1 | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 4.5 |
| | | | H = Total Head (metres) | | | | | | | | | |
| VM 0302 | 0.37 | 0.50 | 20 | 15.0 | 15.0 | 14.5 | 13.5 | 12.5 | 11.5 | 10.0 | 8.0 | 6.0 |
| VM 0303 | 0.37 | 0.50 | 20 | 22.5 | 22.0 | 21.0 | 20.0 | 18.5 | 17.0 | 14.5 | 12.0 | 8.5 |
| VM 0304 | 0.37 | 0.50 | 20 | 30.0 | 28.5 | 27.5 | 26.0 | 24.0 | 21.5 | 18.5 | 15.0 | 10.5 |
| VM 0305 | 0.55 | 0.75 | 20 | 37.5 | 36.0 | 34.5 | 32.5 | 30.0 | 27.0 | 23.5 | 18.5 | 13.0 |
| VM 0306 | 0.55 | 0.75 | 20 | 44.5 | 42.5 | 40.5 | 38.5 | 35.5 | 32.0 | 27.0 | 21.5 | 15.0 |
| VM 0307 | 0.75 | 1.00 | 20 | 52.5 | 50.5 | 48.5 | 46.0 | 43.0 | 38.5 | 33.0 | 26.5 | 19.0 |
| VM 0308 | 0.75 | 1.00 | 20 | 59.5 | 57.5 | 55.0 | 52.0 | 48.0 | 43.5 | 37.0 | 29.5 | 31.0 |
| VM 0309 | 0.75 | 1.00 | 20 | 67.0 | 64.0 | 61.5 | 58.0 | 53.5 | 48.0 | 41.0 | 32.5 | 22.5 |
| VM 0310 | 1.10 | 1.50 | 20 | 75.0 | 72.5 | 70.0 | 66.5 | 61.5 | 55.5 | 48.0 | 38.5 | 27.5 |
| VM 0311 | 1.10 | 1.50 | 20 | 82.5 | 79.5 | 76.5 | 72.5 | 67.0 | 60.5 | 52.0 | 42.0 | 29.5 |
| VM 0312 | 1.10 | 1.50 | 20 | 89.5 | 86.0 | 83.0 | 78.5 | 72.5 | 65.0 | 56.0 | 45.0 | 31.5 |
| VM 0313 | 1.10 | 1.50 | 20 | 96.5 | 93.0 | 89.0 | 84.5 | 78.0 | 70.0 | 60.0 | 47.5 | 33.5 |
| VM 0314 | 1.50 | 2.00 | 20 | 105.5 | 102.0 | 98.5 | 93.5 | 86.5 | 78.0 | 67.5 | 54.5 | 39.5 |
| VM 0315 | 1.50 | 2.00 | 20 | 112.5 | 109.0 | 105.0 | 99.5 | 92.5 | 83.0 | 71.5 | 58.0 | 41.5 |
| VM 0316 | 1.50 | 2.00 | 20 | 120.0 | 115.5 | 115.5 | 105.5 | 98.0 | 88.0 | 76.0 | 61.0 | 43.5 |
| VM 0317 | 1.50 | 2.00 | 20 | 127.0 | 122.5 | 118.0 | 111.5 | 103.5 | 93.0 | 80.0 | 64.0 | 45.5 |
| VM 0318 | 2.20 | 3.00 | 20 | 136.5 | 132.5 | 128.0 | 121.5 | 113.5 | 102.5 | 89.0 | 72.5 | 53.0 |
| VM 0319 | 2.20 | 3.00 | 20 | 144.0 | 139.5 | 134.5 | 128.0 | 119.0 | 107.5 | 93.5 | 76.0 | 55.5 |
| VM 0321 | 2.20 | 3.00 | 20 | 158.5 | 153.5 | 148.0 | 140.5 | 130.5 | 118.0 | 102.0 | 83.0 | 60.0 |

Stuart VM 0300 Series Mechanical Seal Specifications



Seal Component Materials

| Stationary Part | Rotating Part | Other Components | Elastomers | Temperature |
|-----------------|-----------------|-----------------------------|------------|----------------|
| A | B | C | D | |
| Graphite | Silicon Carbide | Stainless Steel AISI 316 | EPDM | -15°C – +120°C |

Stuart VM 0300 Series Motor Specifications

- Protection degree: IP55
- Max ambient temperature 40°C
- Insulation class: F
- Size B14 up to 4 kW

Single Phase Models

- Standard voltage 220–240 V \pm 5%
- Integral capacitor

| IEC Size | Power | | Design | Input Current I_N (A) 230V | 230V 50 Hz | | | | | |
|----------|-------|------|--------|---------------------------------|-------------------|---------------|----------|-------------|-------------|-------------|
| | (kW) | (HP) | | | min^{-1} | M_N (Nm) | $\eta\%$ | $\cos \phi$ | I_A / I_N | M_A / M_N |
| 71 | 0.37 | 0.5 | B14 | 3.1 | 2780 | 1.3 | 57.6 | 0.89 | 3.1 | 0.8 |
| 71 | 0.55 | 0.75 | B14 | 3.9 | 2740 | 1.9 | 69.0 | 0.89 | 3.5 | 0.7 |
| 80 | 0.75 | 1 | B14 | 5.3 | 2800 | 2.6 | 65.0 | 0.95 | 4.1 | 0.6 |
| 80 | 1.1 | 1.5 | B14 | 6.5 | 2730 | 3.8 | 74.0 | 0.97 | 3.6 | 0.5 |
| 90 | 1.5 | 2 | B14 | 9.3 | 2835 | 5.1 | 73.0 | 0.90 | 3.9 | 0.5 |

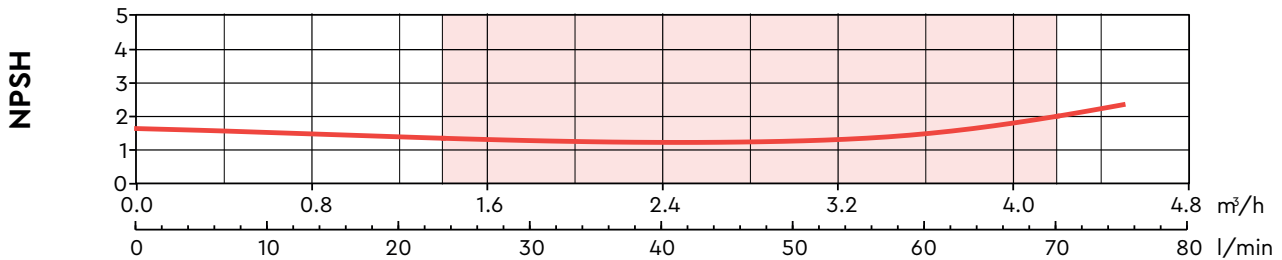
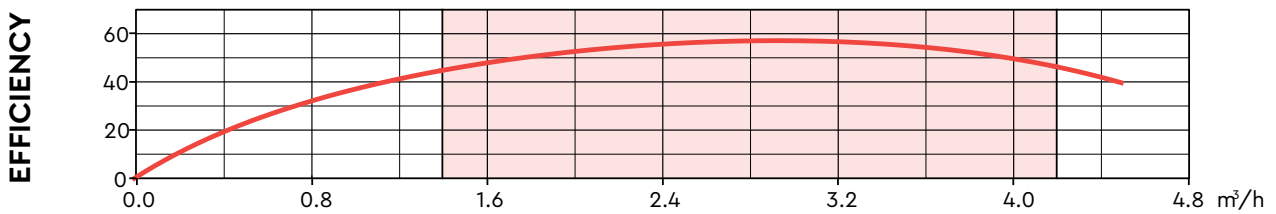
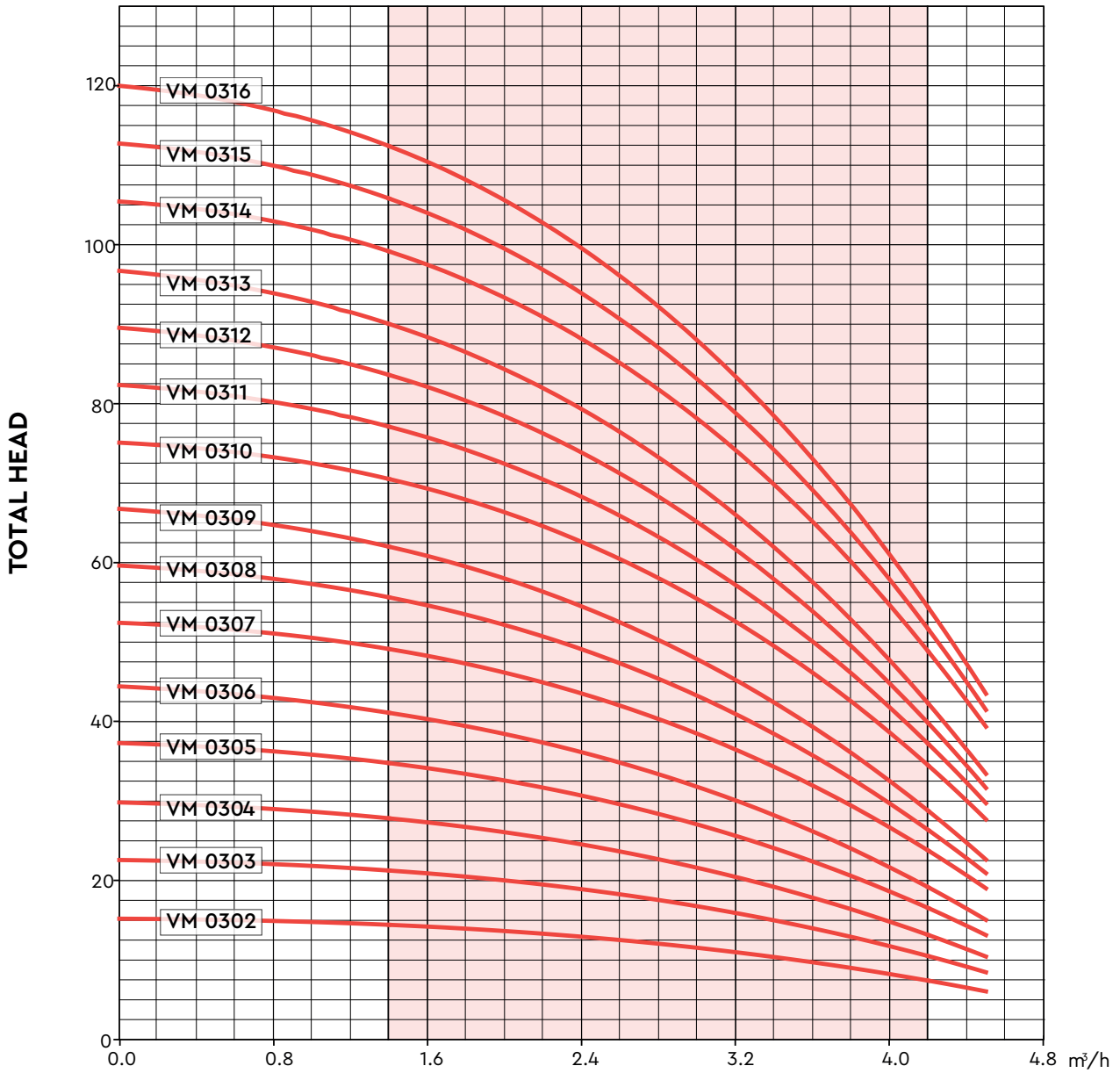
Three Phase Models

- High efficiency IE2 and premium efficiency IE3 motors
- Multi-mount construction for an easy change of terminal box position
- Terminal box rotates by 90° to allow cable entry from any direction
- Easy-to-change flanges with over-sized and smaller-sized dimensions
- Standard voltage up to 3 kW 230/400 V

| Class | Power | | Motor Size | Design | Input Current I_N (A) | | | | 230V 50 Hz | | | | | |
|-------|-------|------|------------|--------|----------------------------|-----------|----------------|-----------|-------------------|---------------|----------|-------------|-------------|-------------|
| | (kW) | (HP) | | | Δ 230 V | Y 400 V | Δ 400 V | Y 690 V | min^{-1} | M_N (Nm) | $\eta\%$ | $\cos \phi$ | I_A / I_N | M_A / M_N |
| IE2 | 0.37 | 0.5 | 71 | B14 | 1.7 | 1.0 | - | - | 2820 | 1.3 | 70.0 | 0.78 | 4.7 | 3.6 |
| | 0.55 | 0.75 | 71 | B14 | 2.6 | 1.5 | - | - | 2830 | 1.9 | 71.0 | 0.77 | 4.8 | 3.2 |
| IE3 | 0.75 | 1 | 80 | B14 | 2.9 | 1.7 | - | - | 2910 | 2.5 | 82.0 | 0.78 | 8.9 | 4.7 |
| | 1.1 | 1.5 | 80 | B14 | 4.2 | 2.4 | - | - | 2870 | 3.7 | 82.7 | 0.76 | 9.3 | 5.0 |
| | 1.5 | 2 | 90 | B14 | 5.2 | 3.0 | - | - | 2875 | 5.0 | 84.2 | 0.85 | 8.4 | 3.6 |
| | 2.2 | 3 | 90 | B14 | 8.0 | 4.6 | - | - | 2880 | 7.3 | 86.5 | 0.82 | 9.2 | 4.0 |

Stuart VM 0300 Series Performance

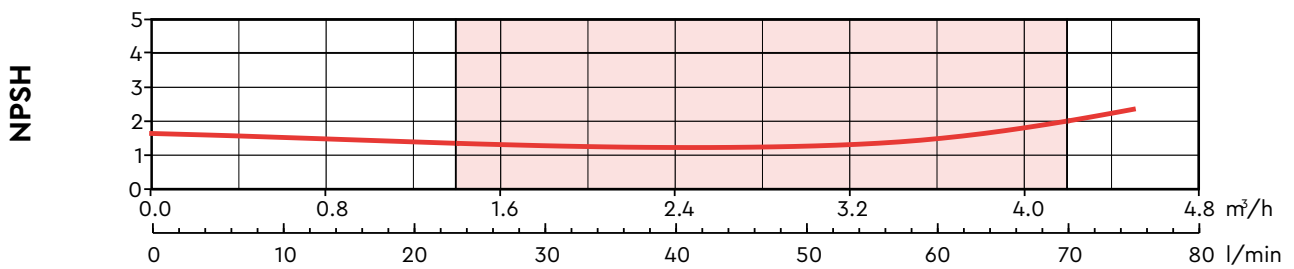
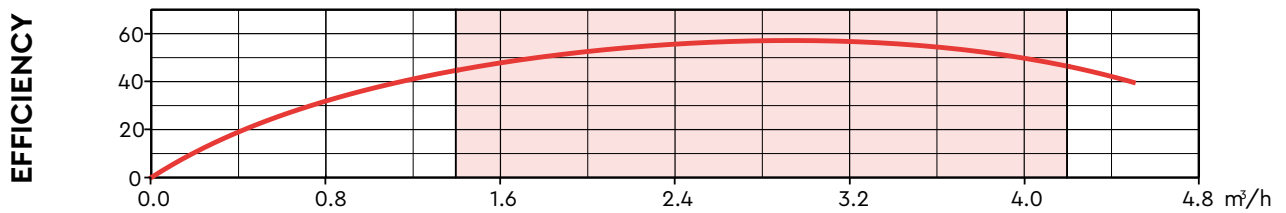
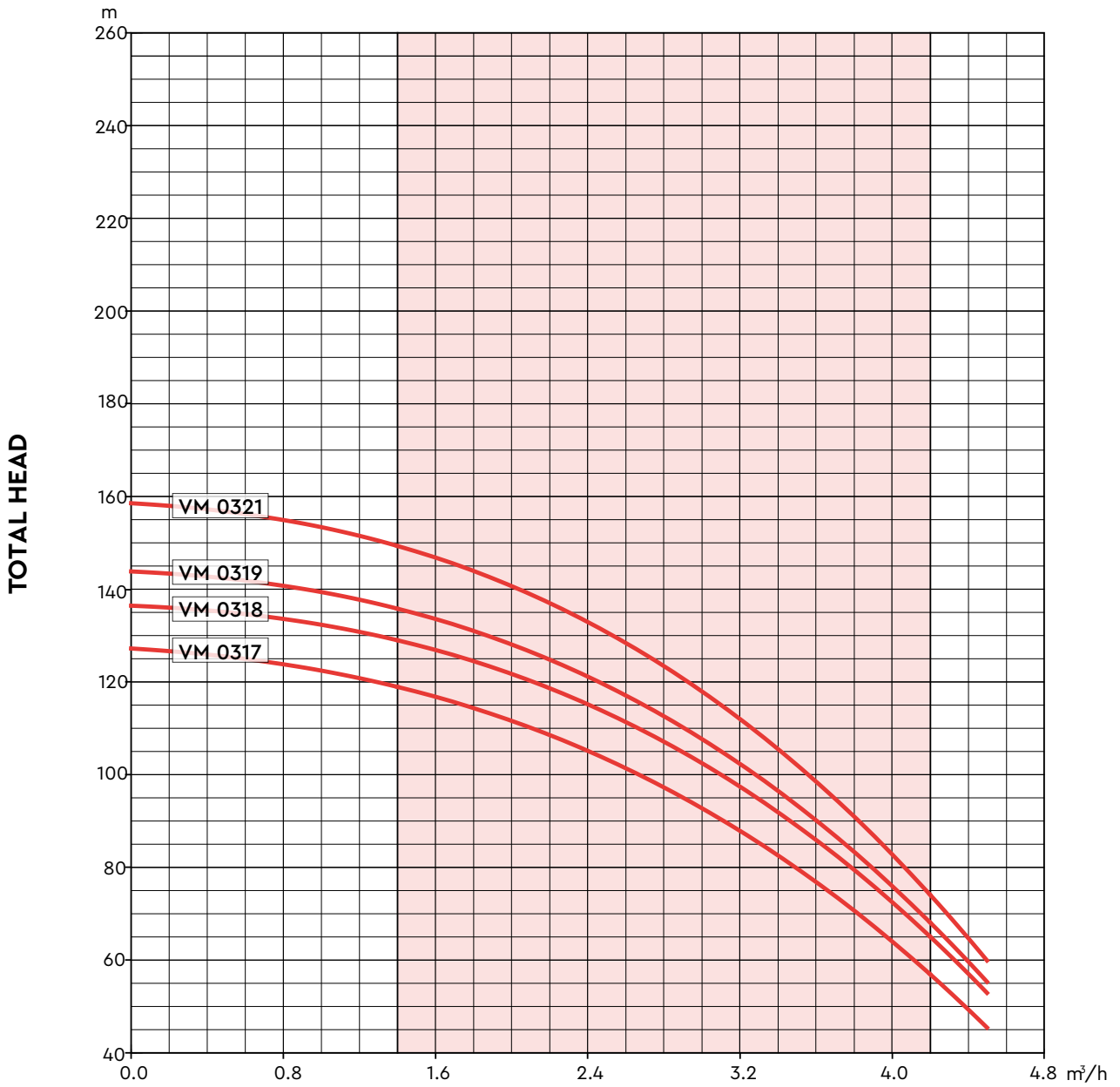
MEI \geq 0.70



FLOW

Stuart VM 0300 Series Performance

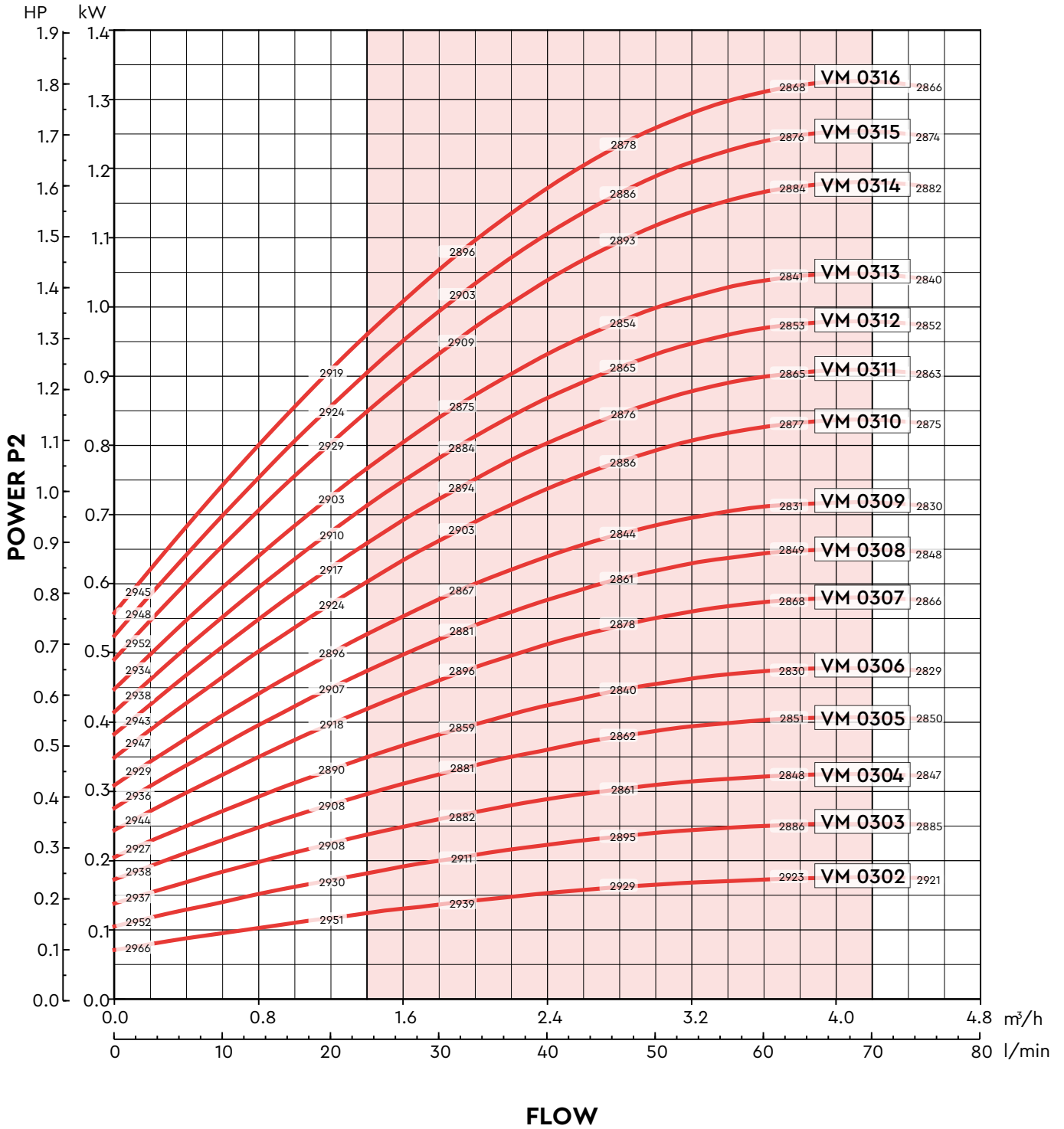
MEI ≥ 0.70



FLOW

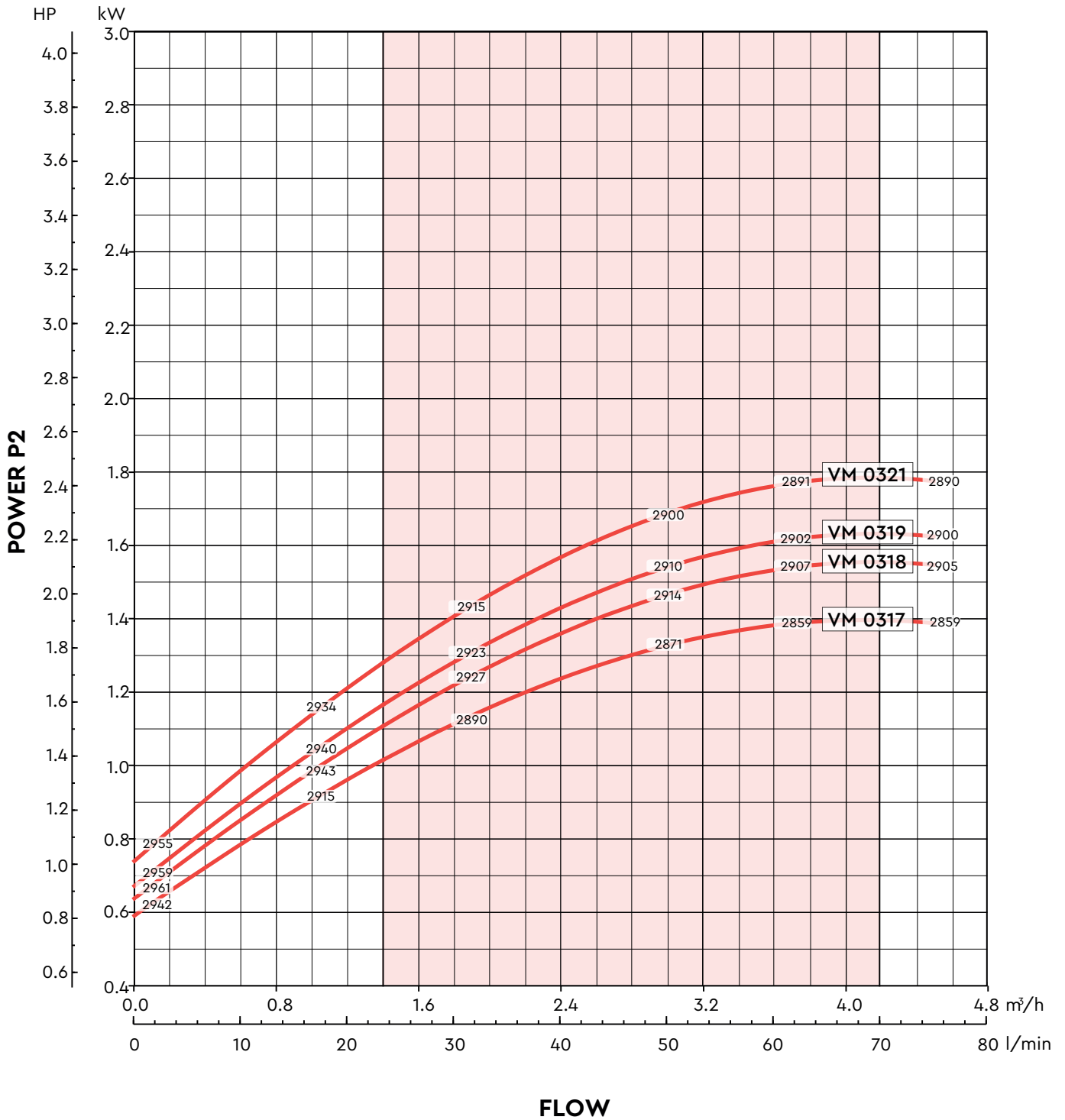
Stuart VM 0300 Series Performance

MEI ≥ 0.70



Stuart VM 0300 Series Performance

MEI ≥ 0.70



Stuart VM 0300 230 M 50 Technical Specifications

| VM 0300 230 M 50 | 0302 | 0303 | 0304 | 0305 | 0306 | 0307 |
|--|---------------------------------------|--------|-----------|-------|---------|---------|
| Part No | 47146 | 47147 | 47148 | 47149 | 47150 | 47151 |
| General | | | | | | |
| Warranty | 1 Year | | | | | |
| Approvals | CE | | | | | |
| Pump type | Centrifugal Multistage | | | | | |
| Features | | | | | | |
| Impeller stages | 2 | 3 | 4 | 5 | 6 | 7 |
| Compact, robust design | ✓ | | | | | |
| Heavy duty oversized bearings | ✓ | | | | | |
| Easy maintenance | ✓ | | | | | |
| Performance | | | | | | |
| Flow rate - nominal (m ³ /h) | 3 | | | | | |
| Flow rate range (m ³ /h) | 1.4 - 4.2 | | | | | |
| Maximum head - closed valve (metres) | 15.0 | 22.5 | 30.0 | 37.5 | 44.5 | 52.5 |
| Head range (metres) | 6-15 | 8.5-22 | 10.5-28.5 | 13-36 | 15-42.5 | 19-50.5 |
| Working pressure - maximum (bar) | 26 | | | | | |
| Motor | | | | | | |
| Motor type | Induction (Manual reset thermal trip) | | | | | |
| Power supply (Vac/Ph/Hz) | 230 V a.c. / 1 / 50 Hz | | | | | |
| Power - motor nominal P2 (kW) | 0.37 | 0.37 | 0.37 | 0.55 | 0.55 | 0.75 |
| Power - motor nominal P2 (hp) | 0.5 | 0.5 | 0.5 | 0.75 | 0.75 | 1.0 |
| Input current - 220-240v (A) | 3.1 | 3.1 | 3.1 | 3.9 | 3.9 | 5.3 |
| Efficiency (%) | 57.6 | 57.6 | 57.6 | 69 | 69 | 75 |
| Insulation class | F | | | | | |
| Duty rating | Continuous (S1) | | | | | |
| Starts per hour | 60 | | | | | |
| IP rating | IP 55 | | | | | |
| Materials | | | | | | |
| Pump head housing | AISI 304 stainless steel | | | | | |
| Impellers and diffusers | AISI 304 stainless steel | | | | | |
| Pump shaft | AISI 304 stainless steel | | | | | |
| Pump seal | Graphite/Silicon Carbide/AISI316/EPDM | | | | | |
| Connections | | | | | | |
| Connection - inlet | DN25 | DN25 | DN25 | DN25 | DN25 | DN25 |
| Connection - outlet | DN25 | DN25 | DN25 | DN25 | DN25 | DN25 |
| Operating Conditions | | | | | | |
| Operating Ambient Temperature Range (°C) | -5 to +40 °C | | | | | |
| Liquid temperature range (°C) | -5 to +120 °C | | | | | |
| Dimensions | | | | | | |
| Height (mm) | 529 | 552 | 574 | 597 | 619 | 658 |
| Width (mm) | 259 | 259 | 259 | 259 | 259 | 275 |
| Depth (mm) | 210 | 210 | 210 | 210 | 210 | 210 |
| Weight (Kg) | 17.3 | 17.8 | 18.3 | 19.2 | 19.7 | 23.5 |

Stuart VM 0300 230 M 50 Technical Specifications

| VM 0300 230 M 50 | 0308 | 0309 | 0310 | 0311 | 0312 | 0313 |
|--|---------------------------------------|---------|-----------|-----------|---------|---------|
| Part No | 47152 | 47153 | 47154 | 47155 | 47156 | 47157 |
| General | | | | | | |
| Warranty | 1 Year | | | | | |
| Approvals | CE | | | | | |
| Pump type | Centrifugal Multistage | | | | | |
| Features | | | | | | |
| Impeller stages | 8 | 9 | 10 | 11 | 12 | 13 |
| Compact, robust design | ✓ | | | | | |
| Heavy duty oversized bearings | ✓ | | | | | |
| Easy maintenance | ✓ | | | | | |
| Performance | | | | | | |
| Flow rate - nominal (m ³ /h) | 3 | | | | | |
| Flow rate range (m ³ /h) | 1.4 - 4.2 | | | | | |
| Maximum head - closed valve (metres) | 59.5 | 67.0 | 75.0 | 82.5 | 89.5 | 96.5 |
| Head range (metres) | 21-57.5 | 22.5-64 | 27.5-72.5 | 29.5-79.5 | 31.5-86 | 33.5-93 |
| Working pressure - maximum (bar) | 26 | | | | | |
| Motor | | | | | | |
| Motor type | Induction (Manual reset thermal trip) | | | | | |
| Power supply (Vac/Ph/Hz) | 230 V a.c. / 1 / 50 Hz | | | | | |
| Power - motor nominal P2 (kW) | 0.75 | 0.75 | 1.10 | 1.10 | 1.10 | 1.10 |
| Power - motor nominal P2 (hp) | 1.0 | 1.0 | 1.5 | 1.5 | 1.5 | 1.5 |
| Input current 220-240v (A) | 5.3 | 5.3 | 6.5 | 6.5 | 6.5 | 6.5 |
| Efficiency (%) | 65 | 65 | 74 | 74 | 74 | 74 |
| Insulation class | F | | | | | |
| Duty rating | Continuous (S1) | | | | | |
| Starts per hour | 60 | | | | | |
| IP rating | IP 55 | | | | | |
| Materials | | | | | | |
| Pump head housing | AISI 304 stainless steel | | | | | |
| Impellers and diffusers | AISI 304 stainless steel | | | | | |
| Pump shaft | AISI 304 stainless steel | | | | | |
| Pump seal | Graphite/Silicon Carbide/AISI316/EPDM | | | | | |
| Connections | | | | | | |
| Connection - inlet | DN25 | DN25 | DN25 | DN25 | DN25 | DN25 |
| Connection - outlet | DN25 | DN25 | DN25 | DN25 | DN25 | DN25 |
| Operating Conditions | | | | | | |
| Operating Ambient Temperature Range (°C) | -5 to +40 °C | | | | | |
| Liquid temperature range (°C) | -5 to +120 °C | | | | | |
| Dimensions | | | | | | |
| Height (mm) | 680 | 703 | 725 | 748 | 770 | 793 |
| Width (mm) | 275 | 275 | 275 | 275 | 275 | 275 |
| Depth (mm) | 210 | 210 | 210 | 210 | 210 | 210 |
| Weight (Kg) | 24.0 | 24.5 | 26.6 | 27.1 | 27.6 | 28.1 |

Stuart VM 0300 230 M 50 Technical Specifications

| VM 0300 230 M 50 | 0314 | 0315 | 0316 | 0317 | 0318 | 0319 | 0321 |
|--|---------------------------------------|----------|------------|------------|----------|------------|----------|
| Part No | 47158 | 47159 | 47160 | 47161 | 47162 | 47163 | 47164 |
| General | | | | | | | |
| Warranty | 1 Year | | | | | | |
| Approvals | CE | | | | | | |
| Pump type | Centrifugal Multistage | | | | | | |
| Features | | | | | | | |
| Impeller stages | 14 | 15 | 16 | 17 | 18 | 19 | 21 |
| Compact, robust design | ✓ | | | | | | |
| Heavy duty oversized bearings | ✓ | | | | | | |
| Easy maintenance | ✓ | | | | | | |
| Performance | | | | | | | |
| Flow rate - nominal (m ³ /h) | 3 | | | | | | |
| Flow rate range (m ³ /h) | 1.4 - 4.2 | | | | | | |
| Maximum head - closed valve (metres) | 105.5 | 112.5 | 120.0 | 127.0 | 136.5 | 144.0 | 158.5 |
| Head range (metres) | 39.5-102 | 41.5-109 | 43.5-115.5 | 45.5-122.5 | 53-132.5 | 55.5-139.5 | 60-153.5 |
| Working pressure - maximum (bar) | 26 | | | | | | |
| Motor | | | | | | | |
| Motor type | Induction (Manual reset thermal trip) | | | | | | |
| Power supply (Vac/Ph/Hz) | 230 V a.c. / 1 / 50 Hz | | | | | | |
| Power - motor nominal P2 (kW) | 1.5 | 1.5 | 1.5 | 1.5 | 2.2 | 2.2 | 2.2 |
| Power - motor nominal P2 (hp) | 2.0 | 2.0 | 2.0 | 2.0 | 3.0 | 3.0 | 3.0 |
| Input current 220-240v (A) | 9.3 | 9.3 | 9.3 | 9.3 | 14.6 | 14.6 | 14.6 |
| Efficiency (%) | 73 | 73 | 73 | 73 | 73 | 73 | 73 |
| Insulation class | F | | | | | | |
| Duty rating | Continuous (S1) | | | | | | |
| Starts per hour | 60 | | | | | | |
| IP rating | IP 55 | | | | | | |
| Materials | | | | | | | |
| Pump head housing | AISI 304 stainless steel | | | | | | |
| Impellers and diffusers | AISI 304 stainless steel | | | | | | |
| Pump shaft | AISI 304 stainless steel | | | | | | |
| Pump seal | Graphite/Silicon Carbide/AISI316/EPDM | | | | | | |
| Connections | | | | | | | |
| Connection - inlet | DN25 | DN25 | DN25 | DN25 | DN25 | DN25 | DN25 |
| Connection - outlet | DN25 | DN25 | DN25 | DN25 | DN25 | DN25 | DN25 |
| Operating Conditions | | | | | | | |
| Operating ambient temperature range (°C) | -5 to +40 °C | | | | | | |
| Liquid temperature range (°C) | -5 to +120 °C | | | | | | |
| Dimensions | | | | | | | |
| Height (mm) | 860 | 883 | 905 | 928 | 950 | 973 | 1018 |
| Width (mm) | 285 | 285 | 285 | 285 | 285 | 285 | 285 |
| Depth (mm) | 210 | 210 | 210 | 210 | 210 | 210 | 210 |
| Weight (Kg) | 32.0 | 32.5 | 32.5 | 33.0 | 35.5 | 36.0 | 37.0 |

Stuart VM 0300 230-400 T 50 Technical Specifications

| VM 0300 230-400 T 50 | 0302 | 0303 | 0304 | 0305 | 0306 | 0307 |
|--|---------------------------------------|--------|-----------|-------|---------|---------|
| Part No | 46990 | 46991 | 46992 | 46993 | 46994 | 46995 |
| General | | | | | | |
| Warranty | 1 Year | | | | | |
| Approvals | CE | | | | | |
| Pump type | Centrifugal Multistage | | | | | |
| Features | | | | | | |
| Impeller stages | 2 | 3 | 4 | 5 | 6 | 7 |
| Compact, robust design | ✓ | | | | | |
| Heavy duty oversized bearings | ✓ | | | | | |
| Easy maintenance | ✓ | | | | | |
| Performance | | | | | | |
| Flow rate - nominal (m ³ /h) | 3 | | | | | |
| Flow rate range (m ³ /h) | 1.4 - 4.2 | | | | | |
| Maximum head - closed valve (metres) | 15.0 | 22.5 | 30.0 | 37.5 | 44.5 | 52.5 |
| Head range (metres) | 6-15 | 8.5-22 | 10.5-28.5 | 13-36 | 15-42.5 | 19-50.5 |
| Working pressure - maximum (bar) | 26 | | | | | |
| Motor | | | | | | |
| Motor type | Induction (Manual reset thermal trip) | | | | | |
| Power supply (Vac/Ph/Hz) | 230-400 V a.c. / 3 / 50 Hz | | | | | |
| Power - motor nominal P2 (kW) | 0.37 | 0.37 | 0.37 | 0.55 | 0.55 | 0.75 |
| Power - motor nominal P2 (hp) | 0.5 | 0.5 | 0.5 | 0.75 | 0.75 | 1.0 |
| Input current - 220-240v (A) | 1.7 | 1.7 | 31.7 | 2.6 | 2.6 | 2.9 |
| Input current - 380-415v (A) | 1.0 | 1.0 | 1.0 | 1.5 | 1.5 | 1.7 |
| Efficiency class | IE2 | IE2 | IE2 | IE2 | IE2 | IE3 |
| Efficiency (%) | 70 | 70 | 70 | 71 | 71 | 82 |
| Insulation class | F | | | | | |
| Duty rating | Continuous (S1) | | | | | |
| Starts per hour | 60 | | | | | |
| IP rating | IP 55 | | | | | |
| Materials | | | | | | |
| Pump head housing | AISI 304 stainless steel | | | | | |
| Impellers and diffusers | AISI 304 stainless steel | | | | | |
| Pump shaft | AISI 304 stainless steel | | | | | |
| Pump seal | Graphite/Silicon Carbide/AISI316/EPDM | | | | | |
| Connections | | | | | | |
| Connection - inlet | DN25 | DN25 | DN25 | DN25 | DN25 | DN25 |
| Connection - outlet | DN25 | DN25 | DN25 | DN25 | DN25 | DN25 |
| Operating Conditions | | | | | | |
| Operating ambient temperature range (°C) | -5 to +40 °C | | | | | |
| Liquid temperature range (°C) | -5 to +120 °C | | | | | |
| Dimensions | | | | | | |
| Height (mm) | 529 | 552 | 574 | 597 | 619 | 658 |
| Width (mm) | 250 | 250 | 250 | 250 | 250 | 244 |
| Depth (mm) | 210 | 210 | 210 | 210 | 210 | 210 |
| Weight (Kg) | 17.3 | 17.8 | 18.3 | 19.2 | 19.7 | 23.5 |

Stuart VM 0300 230-400 T 50 Technical Specifications

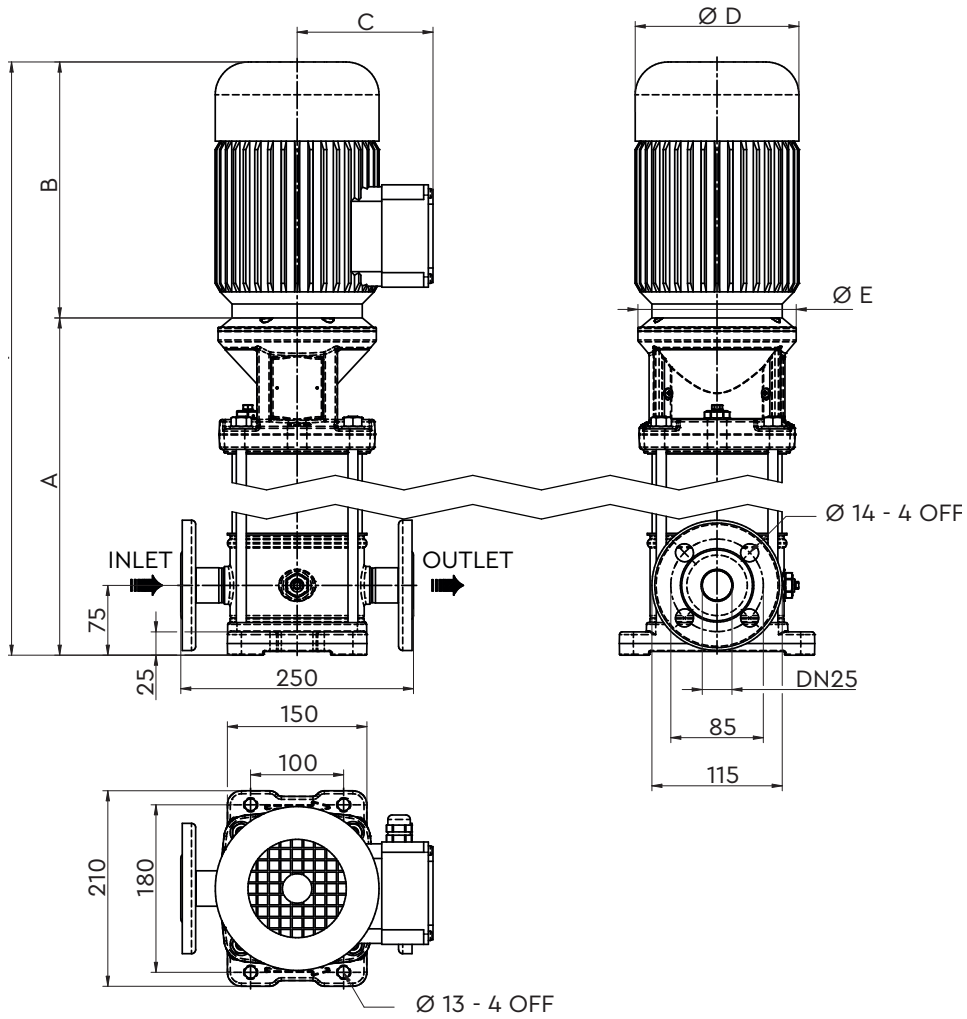
| VM 0300 230-400 T 50 | 0308 | 0309 | 0310 | 0311 | 0312 | 0313 |
|--|---------------------------------------|---------|-----------|-----------|---------|---------|
| Part No | 46996 | 46997 | 46998 | 46999 | 47000 | 47001 |
| General | | | | | | |
| Warranty | 1 Year | | | | | |
| Approvals | CE | | | | | |
| Pump type | Centrifugal Multistage | | | | | |
| Features | | | | | | |
| Impeller stages | 8 | 9 | 10 | 11 | 12 | 13 |
| Compact, robust design | ✓ | | | | | |
| Heavy duty oversized bearings | ✓ | | | | | |
| Easy maintenance | ✓ | | | | | |
| Performance | | | | | | |
| Flow rate - nominal (m ³ /h) | 3 | | | | | |
| Flow rate range (m ³ /h) | 1.4 - 4.2 | | | | | |
| Maximum head - closed valve (metres) | 59.5 | 67.0 | 75.0 | 82.5 | 89.5 | 96.5 |
| Head range (metres) | 21-57.5 | 22.5-64 | 27.5-72.5 | 29.5-79.5 | 31.5-86 | 33.5-93 |
| Working pressure - maximum (bar) | 26 | | | | | |
| Motor | | | | | | |
| Motor type | Induction (Manual reset thermal trip) | | | | | |
| Power supply (Vac/Ph/Hz) | 230-400 V a.c. / 3/ 50 Hz | | | | | |
| Power - motor nominal P2 (kW) | 0.75 | 0.75 | 1.10 | 1.10 | 1.10 | 1.10 |
| Power - motor nominal P2 (hp) | 1.0 | 1.0 | 1.5 | 1.5 | 1.5 | 1.5 |
| Input current 220-240v (A) | 2.9 | 2.9 | 4.2 | 4.2 | 4.2 | 4.2 |
| Input current 380-415v (A) | 1.7 | 1.7 | 2.4 | 2.4 | 2.4 | 2.4 |
| Efficiency class | IE3 | IE3 | IE3 | IE3 | IE3 | IE3 |
| Efficiency (%) | 82 | 82 | 82.7 | 82.7 | 82.7 | 82.7 |
| Insulation class | F | | | | | |
| Duty rating | Continuous (S1) | | | | | |
| Starts per hour | 60 | | | | | |
| IP rating | IP 55 | | | | | |
| Materials | | | | | | |
| Pump head housing | AISI 304 stainless steel | | | | | |
| Impellers and diffusers | AISI 304 stainless steel | | | | | |
| Pump shaft | AISI 304 stainless steel | | | | | |
| Pump seal | Graphite/Silicon Carbide/AISI316/EPDM | | | | | |
| Connections | | | | | | |
| Connection - inlet | DN25 | DN25 | DN25 | DN25 | DN25 | DN25 |
| Connection - outlet | DN25 | DN25 | DN25 | DN25 | DN25 | DN25 |
| Operating Conditions | | | | | | |
| Operating ambient temperature range (°C) | -5 to +40 °C | | | | | |
| Liquid temperature range (°C) | -5 to +120 °C | | | | | |
| Dimensions | | | | | | |
| Height (mm) | 680 | 703 | 725 | 748 | 770 | 793 |
| Width (mm) | 244 | 244 | 244 | 244 | 244 | 244 |
| Depth (mm) | 210 | 210 | 210 | 210 | 210 | 210 |
| Weight (Kg) | 24.0 | 24.5 | 26.6 | 27.1 | 27.6 | 28.1 |

Stuart VM 0300 230-400 T 50 Technical Specifications

| VM 0300 230-400 T 50 | 0314 | 0315 | 0316 | 0317 | 0318 | 0319 | 0321 |
|--|---------------------------------------|----------|------------|------------|----------|------------|----------|
| Part No | 47002 | 47003 | 47004 | 47005 | 47006 | 47007 | 47008 |
| General | | | | | | | |
| Warranty | 1 Year | | | | | | |
| Approvals | CE | | | | | | |
| Pump type | Centrifugal Multistage | | | | | | |
| Features | | | | | | | |
| Impeller stages | 14 | 15 | 16 | 17 | 18 | 19 | 21 |
| Compact, robust design | ✓ | | | | | | |
| Heavy duty oversized bearings | ✓ | | | | | | |
| Easy maintenance | ✓ | | | | | | |
| Performance | | | | | | | |
| Flow rate - nominal (m ³ /h) | 3 | | | | | | |
| Flow rate range (m ³ /h) | 1.4 - 4.2 | | | | | | |
| Maximum head - closed valve (metres) | 105.5 | 112.5 | 120.0 | 127.0 | 136.5 | 144.0 | 158.5 |
| Head range (metres) | 39.5-102 | 41.5-109 | 43.5-115.5 | 45.5-122.5 | 53-132.5 | 55.5-139.5 | 60-153.5 |
| Working pressure - maximum (bar) | 26 | | | | | | |
| Motor | | | | | | | |
| Motor type | Induction (Manual reset thermal trip) | | | | | | |
| Power supply (Vac/Ph/Hz) | 230-400 V a.c. / 3 / 50 Hz | | | | | | |
| Power - motor nominal P2 (kW) | 1.5 | 1.5 | 1.5 | 1.5 | 2.2 | 2.2 | 2.2 |
| Power - motor nominal P2 (hp) | 2.0 | 2.0 | 2.0 | 2.0 | 3.0 | 3.0 | 3.0 |
| Input current 220-240v (A) | 5.2 | 5.2 | 5.2 | 5.2 | 8.0 | 8.0 | 8.0 |
| Input current 380-415v (A) | 3.0 | 3.0 | 3.0 | 3.0 | 4.6 | 4.6 | 4.6 |
| Efficiency class | IE3 | IE3 | IE3 | IE3 | IE3 | IE3 | IE3 |
| Efficiency (%) | 84.2 | 84.2 | 84.2 | 84.2 | 86.5 | 86.5 | 86.5 |
| Insulation class | F | | | | | | |
| Duty rating | Continuous (S1) | | | | | | |
| Starts per hour | 60 | | | | | | |
| IP rating | IP 55 | | | | | | |
| Materials | | | | | | | |
| Pump head housing | AISI 304 stainless steel | | | | | | |
| Impellers and diffusers | AISI 304 stainless steel | | | | | | |
| Pump shaft | AISI 304 stainless steel | | | | | | |
| Pump seal | Graphite/Silicon Carbide/AISI316/EPDM | | | | | | |
| Connections | | | | | | | |
| Connection - inlet | DN25 | DN25 | DN25 | DN25 | DN25 | DN25 | DN25 |
| Connection - outlet | DN25 | DN25 | DN25 | DN25 | DN25 | DN25 | DN25 |
| Operating Conditions | | | | | | | |
| Operating ambient temperature range (°C) | -5 to +40 °C | | | | | | |
| Liquid temperature range (°C) | -5 to +120 °C | | | | | | |
| Dimensions | | | | | | | |
| Height (mm) | 860 | 883 | 905 | 928 | 950 | 973 | 1018 |
| Width (mm) | 263 | 263 | 263 | 263 | 263 | 263 | 263 |
| Depth (mm) | 210 | 210 | 210 | 210 | 210 | 210 | 210 |
| Weight (Kg) | 32.0 | 32.5 | 32.5 | 33.0 | 35.5 | 36.0 | 37.0 |

Stuart VM 0300 230 M 50 Dimensions

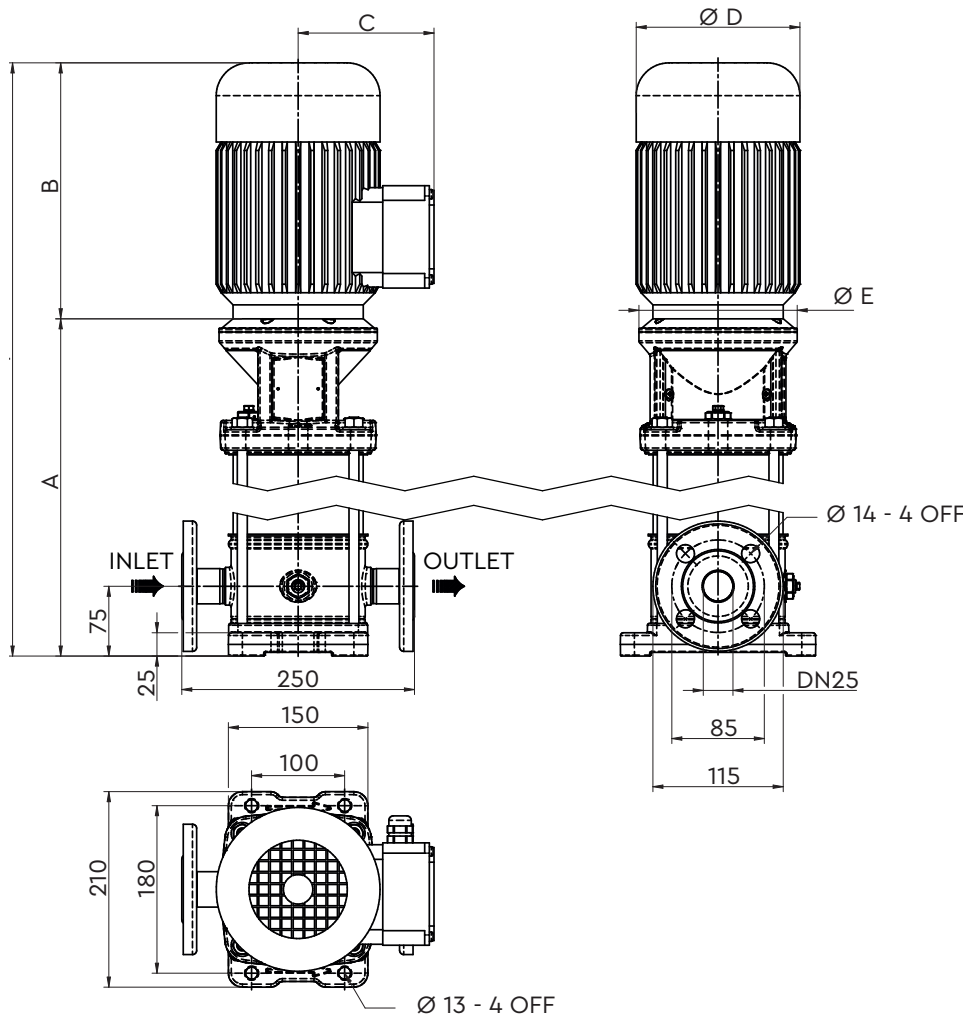
Dimensions: VM 0300 230 M 50



| Part No | Description | Dimensions (mm) | | | | | | Motor Weight | Pump Weight | Total Weight | |
|---------|-------------|-----------------|-----|-----|-----|-----|-----|--------------|-------------|--------------|---------|
| | | A | B | C | Ø D | Ø E | F | | | | |
| 47146 | VM 0302 | 230 M 50 | 313 | 216 | 134 | 139 | 170 | 529 | 5.8 Kg | 11.5 Kg | 17.3 Kg |
| 47147 | VM 0303 | 230 M 50 | 336 | 216 | 134 | 139 | 170 | 552 | 5.8 Kg | 12.0 Kg | 17.8 Kg |
| 47148 | VM 0304 | 230 M 50 | 358 | 216 | 134 | 139 | 170 | 574 | 5.8 Kg | 12.5 Kg | 18.3 Kg |
| 47149 | VM 0305 | 230 M 50 | 381 | 216 | 134 | 139 | 170 | 597 | 6.2 Kg | 13.0 Kg | 19.2 Kg |
| 47150 | VM 0306 | 230 M 50 | 403 | 216 | 134 | 139 | 170 | 619 | 6.2 Kg | 13.5 Kg | 19.7 Kg |
| 47151 | VM 0307 | 230 M 50 | 426 | 232 | 150 | 160 | 170 | 658 | 9.5 Kg | 14.0 Kg | 23.5 Kg |
| 47152 | VM 0308 | 230 M 50 | 448 | 232 | 150 | 160 | 170 | 680 | 9.5 Kg | 14.5 Kg | 24.0 Kg |
| 47153 | VM 0309 | 230 M 50 | 471 | 232 | 150 | 160 | 170 | 703 | 9.5 Kg | 15.0 Kg | 24.5 Kg |
| 47154 | VM 0310 | 230 M 50 | 493 | 232 | 150 | 160 | 170 | 725 | 11.1 Kg | 15.5 Kg | 26.6 Kg |
| 47155 | VM 0311 | 230 M 50 | 516 | 232 | 150 | 160 | 170 | 748 | 11.1 Kg | 16.0 Kg | 27.1 Kg |
| 47156 | VM 0312 | 230 M 50 | 538 | 232 | 150 | 160 | 170 | 770 | 11.1 Kg | 16.5 Kg | 27.6 Kg |
| 47157 | VM 0313 | 230 M 50 | 561 | 232 | 150 | 160 | 170 | 793 | 11.1 Kg | 17.0 Kg | 28.1 Kg |
| 47158 | VM 0314 | 230 M 50 | 593 | 267 | 160 | 180 | 170 | 860 | 14.0 Kg | 18.0 Kg | 32.0 Kg |
| 47159 | VM 0315 | 230 M 50 | 616 | 267 | 160 | 180 | 170 | 883 | 14.0 Kg | 18.5 Kg | 32.5 Kg |
| 47160 | VM 0316 | 230 M 50 | 638 | 267 | 160 | 180 | 170 | 905 | 14.0 Kg | 18.5 Kg | 32.5 Kg |
| 47161 | VM 0317 | 230 M 50 | 661 | 267 | 160 | 180 | 170 | 928 | 14.0 Kg | 19.0 Kg | 33.0 Kg |
| 47162 | VM 0318 | 230 M 50 | 683 | 267 | 160 | 180 | 170 | 950 | 16.0 Kg | 19.5 Kg | 35.5 Kg |
| 47163 | VM 0319 | 230 M 50 | 706 | 267 | 160 | 180 | 170 | 973 | 16.0 Kg | 20.0 Kg | 36.0 Kg |
| 47164 | VM 0321 | 230 M 50 | 751 | 267 | 160 | 180 | 170 | 1018 | 16.0 Kg | 21.0 Kg | 37.0 Kg |

Stuart VM 0300 230-400 T 50 Dimensions

Dimensions: VM 0300 230-400 T 50



| Part No | Description | Dimensions (mm) | | | | | | Motor Weight | Pump Weight | Total Weight |
|---------|----------------------|-----------------|-----|-----|-----|-----|------|--------------|-------------|--------------|
| | | A | B | C | Ø D | Ø E | F | | | |
| 46990 | VM 0302 230-400 T 50 | 313 | 216 | 110 | 139 | 170 | 529 | 5.8 Kg | 11.5 Kg | 17.3 Kg |
| 46991 | VM 0303 230-400 T 50 | 336 | 216 | 110 | 139 | 170 | 552 | 5.8 Kg | 12.0 Kg | 17.8 Kg |
| 46992 | VM 0304 230-400 T 50 | 358 | 216 | 110 | 139 | 170 | 574 | 5.8 Kg | 12.5 Kg | 18.3 Kg |
| 46993 | VM 0305 230-400 T 50 | 381 | 216 | 110 | 139 | 170 | 597 | 6.2 Kg | 13.0 Kg | 19.2 Kg |
| 46994 | VM 0306 230-400 T 50 | 403 | 216 | 110 | 139 | 170 | 619 | 6.2 Kg | 13.5 Kg | 19.7 Kg |
| 46995 | VM 0307 230-400 T 50 | 426 | 232 | 129 | 160 | 170 | 658 | 9.5 Kg | 14.0 Kg | 23.5 Kg |
| 46996 | VM 0308 230-400 T 50 | 448 | 232 | 129 | 160 | 170 | 680 | 9.5 Kg | 14.5 Kg | 24.0 Kg |
| 46997 | VM 0309 230-400 T 50 | 471 | 232 | 129 | 160 | 170 | 703 | 9.5 Kg | 15.0 Kg | 24.5 Kg |
| 46998 | VM 0310 230-400 T 50 | 493 | 232 | 129 | 160 | 170 | 725 | 11.1 Kg | 15.5 Kg | 26.6 Kg |
| 46999 | VM 0311 230-400 T 50 | 516 | 232 | 129 | 160 | 170 | 748 | 11.1 Kg | 16.0 Kg | 27.1 Kg |
| 47000 | VM 0312 230-400 T 50 | 538 | 232 | 129 | 160 | 170 | 770 | 11.1 Kg | 16.5 Kg | 27.6 Kg |
| 47001 | VM 0313 230-400 T 50 | 561 | 232 | 129 | 160 | 170 | 793 | 11.1 Kg | 17.0 Kg | 28.1 Kg |
| 47002 | VM 0314 230-400 T 50 | 593 | 267 | 138 | 180 | 170 | 860 | 14.0 Kg | 18.0 Kg | 32.0 Kg |
| 47003 | VM 0315 230-400 T 50 | 616 | 267 | 138 | 180 | 170 | 883 | 14.0 Kg | 18.5 Kg | 32.5 Kg |
| 47004 | VM 0316 230-400 T 50 | 638 | 267 | 138 | 180 | 170 | 905 | 14.0 Kg | 18.5 Kg | 32.5 Kg |
| 47005 | VM 0317 230-400 T 50 | 661 | 267 | 138 | 180 | 170 | 928 | 14.0 Kg | 19.0 Kg | 33.0 Kg |
| 47006 | VM 0318 230-400 T 50 | 683 | 267 | 138 | 180 | 170 | 950 | 16.0 Kg | 19.5 Kg | 35.5 Kg |
| 47007 | VM 0319 230-400 T 50 | 706 | 267 | 138 | 180 | 170 | 973 | 16.0 Kg | 20.0 Kg | 36.0 Kg |
| 47008 | VM 0321 230-400 T 50 | 751 | 267 | 138 | 180 | 170 | 1018 | 16.0 Kg | 21.0 Kg | 37.0 Kg |

Stuart Turner Limited reserves the right to amend specifications without notice.

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