



# MOTOR SPECIFICATIONS

Enclosure: TEFC, 2-Pole, 3600 RPM

| VR Pump - Motor Rating Information |              |      |            | Baldor Specific Data |           |            |      |      |      |               |
|------------------------------------|--------------|------|------------|----------------------|-----------|------------|------|------|------|---------------|
| Phase                              | Voltz (60Hz) | HP   | Mount Type | Baldor Motor         | 60 Hertz  |            |      |      |      | Weight (lbs.) |
|                                    |              |      |            |                      | FLA       | SFA        | S.F  | 208v | Amps |               |
| 1                                  | 115/230      | 0.5  | Footless   | VL3503               | 7/3.5     | 8/4        | 1.25 | Y    | 4.1  | 23            |
|                                    |              | 0.75 | Footless   | VL3506               | 9.6/4.8   | 11.6/5.8   | 1.25 | Y    | 6.1  | 29            |
|                                    |              | 1    | Footless   | VL3509               | 11.8/5.9  | 14/7       | 1.25 | Y    | 6.1  | 36            |
|                                    |              | 1.5  | Footless   | PCL3513M             | 13.2/6.6  | 14.8/7.4   | 1.15 | N    | --   | 38            |
|                                    |              | 2    | Footless   | PCL3515M             | 17.6/8.8  | 21/10.5    | 1.15 | N    | --   | 43            |
|                                    | 230          | 3    | Footless   | PCL3519M             | 12.5      | 14.6       | 1.15 | Y    | 13.7 | 52            |
|                                    |              | 5    | Footed     | CL3608TM             | 19.5      | 21.6/19.5  | 1.00 | Y    | 21.6 | 92            |
|                                    |              | 7.5  | Footed     | L3709T-M13B          | 33        | N/A        | 1.00 | N    | --   | 123           |
|                                    |              | 10   | Footed     | CL3711T              | 40        | 43/40      | 1.00 | Y    | 43   | 167           |
|                                    |              | 0.5  | Footless   | VM3537               | 1.6/8     | 2.4/1.2    | 1.25 | Y    | 1.54 | 20            |
| 3                                  | 230/460      | 0.75 | Footless   | VM3541               | 2.6/1.3   | 3/1.5      | 1.25 | Y    | 3.1  | 21            |
|                                    |              | 1    | Footless   | VEM3545              | 2.8/1.4   | 3.4/1.7    | 1.25 | Y    | 3    | 32            |
|                                    |              | 1.5  | Footless   | VEM3550              | 3.8/1.9   | 4.3/2.15   | 1.15 | Y    | 4    | 35            |
|                                    |              | 2    | Footless   | VEM3555              | 5/2.5     | 5.6/2.8    | 1.15 | Y    | 5.3  | 43            |
|                                    |              | 3    | Footless   | VEM3559              | 7.2/3.6   | 8.2/4.1    | 1.15 | Y    | 7.9  | 50            |
|                                    |              | 3    | Footed     | CEM3559T             | 7.2/3.6   | 8.2/4.1    | 1.15 | Y    | 7.9  | 52            |
|                                    |              | 3    | Footed     | CEM3610T             | 7.2/3.6   | 8.2/4.1    | 1.15 | Y    | 7.9  | 50            |
|                                    |              | 5    | Footed     | CEM3613T             | 11.6/5.8  | 13.4/6.7   | 1.15 | Y    | 12.8 | 78            |
|                                    |              | 7.5  | Footed     | CEM3616T             | 16.8/8.4  | 19.3/9.7   | 1.15 | Y    | 18.5 | 101           |
|                                    |              | 7.5  | Footed     | CEM3709T             | 18/9      | 20.4/10.2  | 1.15 | Y    | 19   | 120           |
|                                    |              | 10   | Footed     | CEM3711T             | 23.2/11.6 | 27/13.5    | 1.15 | Y    | 24.9 | 121           |
|                                    |              | 15   | Footed     | CEM3713T             | 34/17     | 39/19.5    | 1.15 | Y    | 36.8 | 182           |
|                                    |              | 15   | Footed     | CEM2394T             | 35/17.5   | 40/20      | 1.15 | Y    | 38   | 250           |
|                                    |              | 20   | Footed     | CEM4106T             | 46/23     | 52.6/26.3  | 1.15 | Y    | 50   | 265           |
|                                    |              | 25   | Footed     | CEM4107T             | 58/29     | 66.6/33.3  | 1.15 | Y    | 62   | 346           |
|                                    |              | 30   | Footed     | CEM4108T             | 68/34     | 79/39.5    | 1.15 | N    | --   | 389           |
|                                    |              | 40   | Footed     | CEM4109T             | 90/45     | 103.6/51.8 | 1.15 | Y    | 100  | 600           |
|                                    |              | 50   | Footed     | CEM4114T             | 112/56    | 128/64     | 1.15 | Y    | 122  | 591           |
|                                    |              | 60   | Footed     | CEM4310T             | 131/65.4  | 151/75.5   | 1.15 | Y    | 145  | 830           |
|                                    |              | 75   | Footed     | CEM4313T             | 161/80.7  | 192.6/96.3 | 1.15 | N    | --   | 905           |
|                                    | 575          | 0.5  | Footless   | VM3537-5             | 0.8       | 1          | 1.25 | N    | --   | 19            |
|                                    |              | 0.75 | Footless   | VM3541-5             | 0.96      | 1.2        | 1.25 | N    | --   | 21            |
|                                    |              | 1    | Footless   | VEM3545-5            | 1.1       | 1.3        | 1.25 | N    | --   | 27            |
|                                    |              | 1.5  | Footless   | VEM3550-5            | 1.5       | 1.73       | 1.15 | N    | --   | 38            |
|                                    |              | 2    | Footless   | VEM3555-5            | 2         | 2.22       | 1.15 | N    | --   | 41            |
|                                    |              | 3    | Footless   | VEM3559-5            | 2.9       | 3.31       | 1.15 | N    | --   | 50            |
|                                    |              | 3    | Footed     | CEM3559T-5           | 2.9       | 3.31       | 1.15 | N    | --   | 52            |
|                                    |              | 3    | Footed     | CEM3610T-5           | 2.9       | 3.31       | 1.15 | N    | --   | 58            |
|                                    |              | 5    | Footed     | CEM3613T-5           | 4.7       | 5.36       | 1.15 | N    | --   | 78            |
|                                    |              | 7.5  | Footed     | EM3616T-5-M13B       | 6.8       | 7.74       | 1.15 | N    | --   | 75            |
|                                    |              | 7.5  | Footed     | CEM3769T-5           | 7.4       | 8.38       | 1.15 | N    | --   | 179           |
|                                    |              | 10   | Footed     | CEM3711T-5           | 9.5       | 10.8       | 1.15 | N    | --   | 123           |
|                                    |              | 15   | Footed     | CEM3713T-5           | 13.6      | 15.6       | 1.15 | N    | --   | 169           |
|                                    |              | 20   | Footed     | EM4106T-5-M13C       | 18        | 21.1       | 1.15 | N    | --   | 262           |
|                                    |              | 25   | Footed     | EM4107T-5-M13C       | 23        | 25.2       | 1.15 | N    | --   | 327           |
|                                    |              | 30   | Footed     | EM4108T-5-M13C       | 28        | 30.7       | 1.15 | N    | --   | 347           |
|                                    |              | 40   | Footed     | EM4109T-5-M13C       | 37        | 42.3       | 1.15 | N    | --   | 551           |
|                                    |              | 50   | Footed     | EM4114T-5-M13C       | 45        | 51.3       | 1.15 | N    | --   | 575           |

## T01VR – MATERIALS OF CONSTRUCTION

| Ref. No. | Part Description                        | Material                             |                  |          |
|----------|-----------------------------------------|--------------------------------------|------------------|----------|
|          |                                         | Type                                 | ASTM/AISI        | DIN / EN |
| 10.00    | Pump casing                             | Stainless Steel                      | CF 8M / AISI 316 | 1.4408   |
| -        | Hydraulics                              | Stainless Steel                      | AISI 316         | 1.4401   |
| 10.02    | Filling and draining plug               | Stainless Steel                      | AISI 316         | 1.4401   |
| 20.00    | Outer Case                              | Stainless Steel                      | AISI 316         | 1.4401   |
| 20.01    | Mechanical seal housing                 | Stainless Steel                      | AISI 316         | 1.4401   |
| 20.05    | Filling plugs                           | Stainless Steel                      | AISI 316         | 1.4401   |
| 30.00    | Pump shaft                              | Stainless Steel                      | AISI 316         | 1.4401   |
| 30.01    | Kit Mechanical seal                     | Graphite/ SIC EPDM                   | -                | -        |
| 30.02    | Mechanical seal fastening kit           | Stainless Steel                      | AISI 316         | 1.4401   |
| 30.03    | Kit O-rings                             | EPDM                                 | -                | -        |
| 40.00    | Stage housing and diffuser              | Stainless Steel                      | AISI 316         | 1.4401   |
| 40.01    | Stage centering outlet                  | Stainless Steel                      | AISI 316         | 1.4401   |
| 40.02    | Floating neck ring                      | PPS                                  | -                | -        |
| 40.03    | Initial stage housing                   | Stainless Steel                      | AISI 316         | 1.4401   |
| 40.04    | Last stage with diffuser                | Stainless Steel                      | AISI 316         | 1.4401   |
| 40.05    | Stage centering inlet                   | Stainless Steel                      | AISI 316         | 1.4401   |
| 40.06    | Stage housing and diffuser with bearing | Stainless Steel, Tungsten Carbide WC | AISI 316         | 1.4401   |
| 50.00    | Impeller                                | Stainless Steel                      | AISI 316         | 1.4401   |
| 50.01    | Impeller Spacer                         | Stainless Steel                      | AISI 316         | 1.4401   |
| 50.02    | Intermediary sleeve                     | Tungsten Carbide WC                  | -                | -        |
| 50.03    | Intermediary sleeve spacer              | Stainless Steel                      | AISI 316         | 1.4401   |

## Flange Data

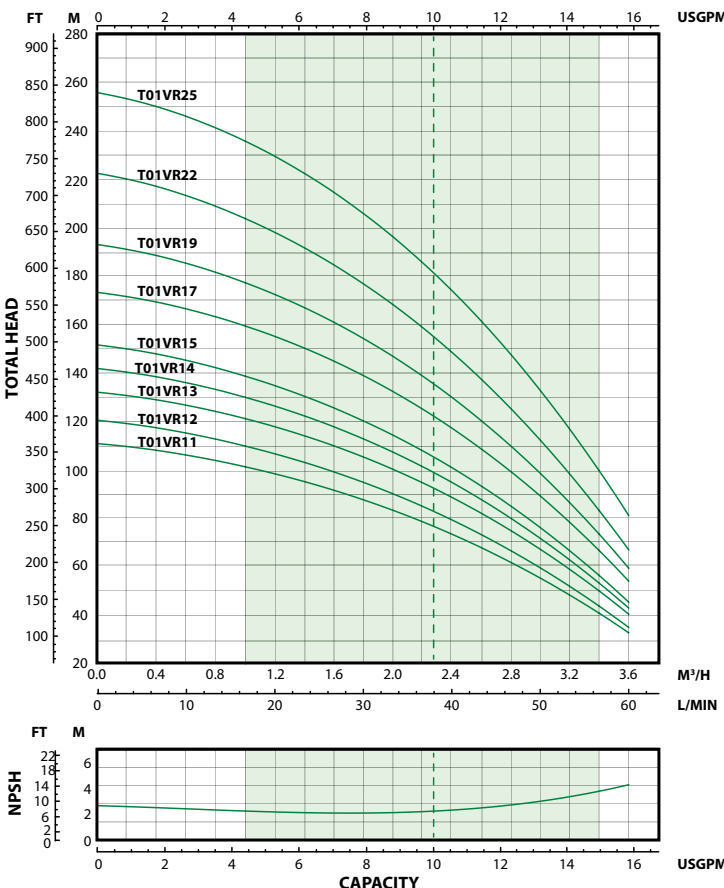
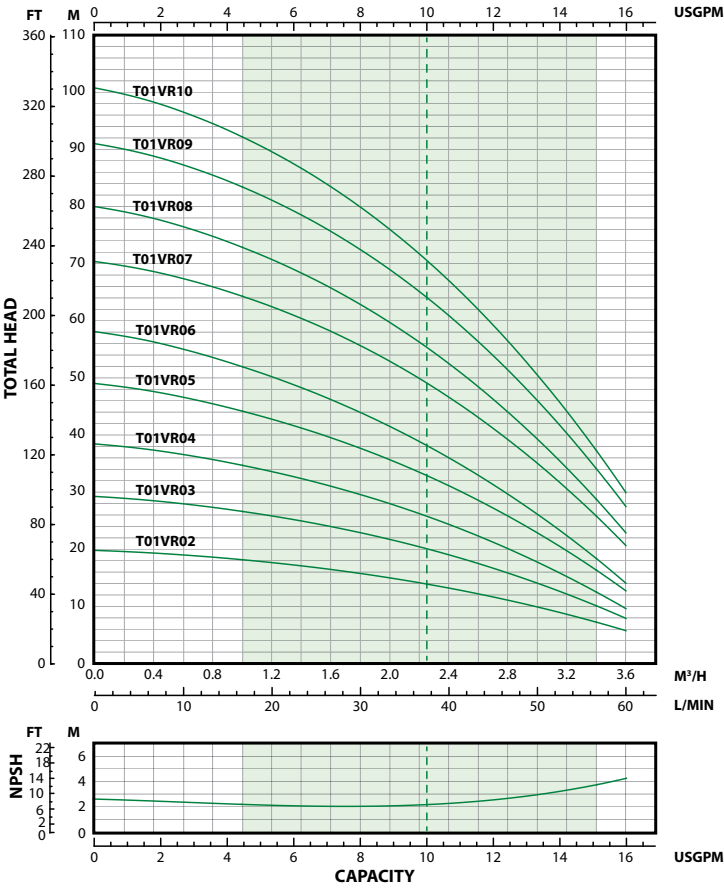
| Series                       | Flange Pipe Size (in.) | Pump Max Rating (PSI) | Select the Companion Flange Based on the Maximum Potential System Pressure (Incoming + Max PSI from the Pump) |       |     |
|------------------------------|------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------|-------|-----|
|                              |                        |                       |                                                                                                               |       |     |
| T01VR (all stage counts)     | 1.25"                  | 375                   | ANSI 150 steel flange                                                                                         | 1.25" | 260 |
|                              |                        |                       | ANSI 300 steel flange                                                                                         | 1.25" | 750 |
| T03-T06VR (all stage counts) | 1.25"                  | 375                   | ANSI 150 steel flange                                                                                         | 1.25" | 260 |
|                              |                        |                       | ANSI 150 steel flange                                                                                         | 1.50" | 260 |
|                              |                        |                       | ANSI 300 steel flange                                                                                         | 1.25" | 750 |
|                              |                        |                       | ANSI 300 steel flange                                                                                         | 1.50" | 750 |
| T10-T20VR (all stage counts) | 2.00"                  | 375                   | ANSI 150 steel flange                                                                                         | 2.00" | 260 |
|                              |                        |                       | ANSI 300 steel flange                                                                                         | 2.00" | 750 |
| T30VR, -1-2-3 stages         | 2.50"                  | 230                   | ANSI 150 steel flange                                                                                         | 2.50" | 260 |
| T30VR, -4-5-6-7-8 stages     | 2.50"                  | 460                   | ANSI 300 steel flange                                                                                         | 2.50" | 750 |
| T45VR, -1-2 stages           | 3.00"                  | 230                   | ANSI 150 steel flange                                                                                         | 3.00" | 260 |
| T45VR, -3-4-5-6-7 stages     | 3.00"                  | 460                   | ANSI 300 steel flange                                                                                         | 3.00" | 750 |
| T65-95VR, -1-2 stages        | 4.00"                  | 230                   | ANSI 150 steel flange                                                                                         | 4.00" | 260 |
| T65-95VR, -3-4-5 stages      | 4.00"                  | 360                   | ANSI 300 steel flange                                                                                         | 4.00" | 750 |

NOTE: Class 125 and Class 250 flanges and flanged fittings are made from cast iron while Class 150 and Class 300 are ductile iron, steel, or stainless steel. However, the bolting pattern is the same for both Class 125 and 150 so, regardless of material they will bolt together, as is also the case for Class 250 and 300.

NOTE: T30-T45-T65-T95VR series pumps come equipped with two rotatable steel flanges with oval-shaped bolt holes that enable them to fit both DIN and ANSI flanges.

NOTE: Companion flanges, nuts bolts, and gaskets are not included with pump

T01VR – PERFORMANCE CURVES



NOTE: Specifications subject to change without prior notice. Hydraulic characteristics are according to ISO standard 9906, Annex A.

COMMENTS