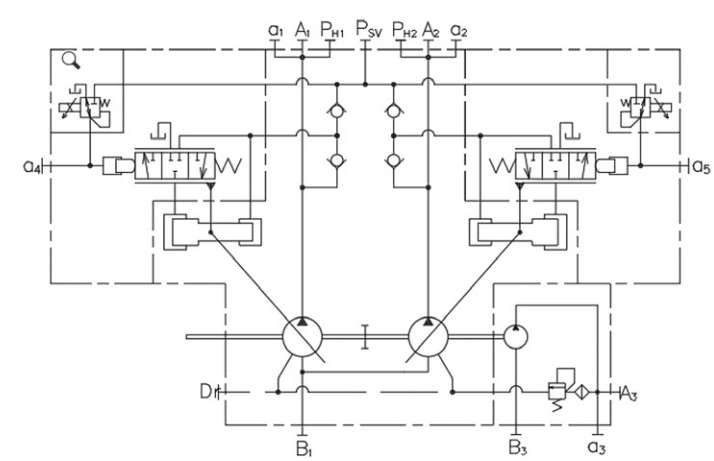
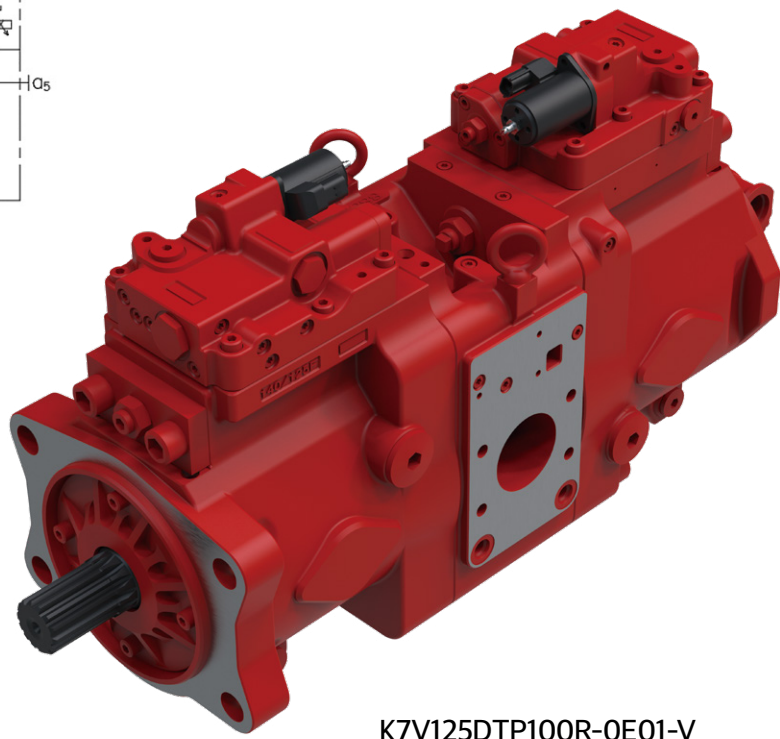


Specifications

- Swash plate type axial piston pump
- High efficiency
- High reliability
  - Increase bearing capacity
- High power density
  - Shorter length compared to K3V/K5V
  - Increase self-priming capability
  - Higher input torque



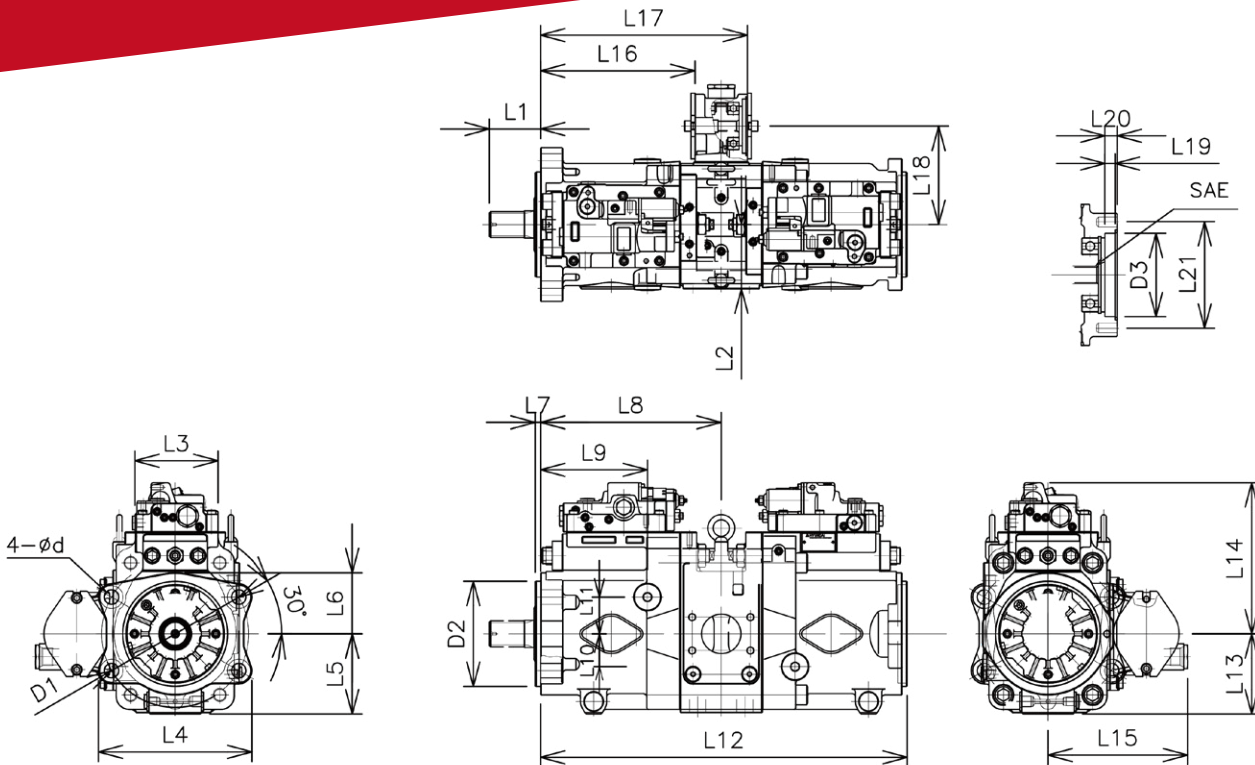
Hydraulic circuit  
(Electric Positive Flow Control)



K7V125DTP100R-0E01-V

| Model                                                  |                       | K7V63 | K7V125 |
|--------------------------------------------------------|-----------------------|-------|--------|
| Displacement [cc/rev]                                  |                       | 65    | 130    |
| Pressure [MPa]                                         | Rated                 | 35    |        |
|                                                        | Peak                  | 40    |        |
| Max. Allowable total input torque [N·m]                |                       | 415   | 700    |
| Max. input torque of attached gear pump with PTO [N·m] |                       | 125   |        |
| Speed (min <sup>-1</sup> )                             | Max. for self-priming | 2,360 | 2,200  |
|                                                        | Max                   | 2,700 | 2,700  |

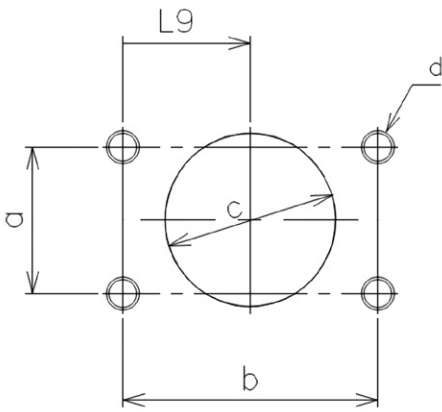
Dimensions (with PTO)



| Model  | Dimensions |     |       |    |    |    |     |     |     |    |      |       |     |     |
|--------|------------|-----|-------|----|----|----|-----|-----|-----|----|------|-------|-----|-----|
|        | D1         | D2  | D3    | d  | L1 | L2 | L3  | L4  | L5  | L6 | L7   | L8    | L9  | L10 |
| K7V63  | 181        | 127 | 82.55 | 18 | 76 | 82 | 170 | 215 | 102 | 70 | 12.7 | 201   | 130 | 83  |
| K7V125 | 224        | 160 | 82.55 | 22 | 78 | 98 | 131 | 234 | 122 | 93 | 8    | 112.5 | 163 | 50  |

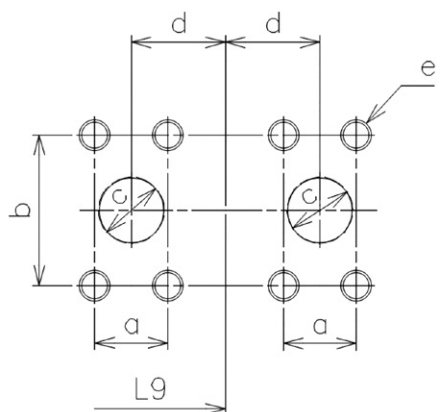
| Model  | Shaft spline |                  |                |        |            | Model  | Dimensions |       |       |     |     |     |     |
|--------|--------------|------------------|----------------|--------|------------|--------|------------|-------|-------|-----|-----|-----|-----|
|        | no. of teeth | pitch circle dia | pressure angle | module | rule       |        | L15        | L16   | L17   | L18 | L19 | L20 | L21 |
| K7V63  | 14           | 29.6             | 30°            | 12/24  | SAE        | K7V63  | 213        | 161   | 241   | 150 | 2.4 | 8   | 106 |
| K7V125 | 14/17        | 35.0             | 20°            | 2.5    | JIS B 1603 | K7V125 | 213        | 235.5 | 315.5 | 150 | 2.4 | 8   | 109 |

1) Suction port



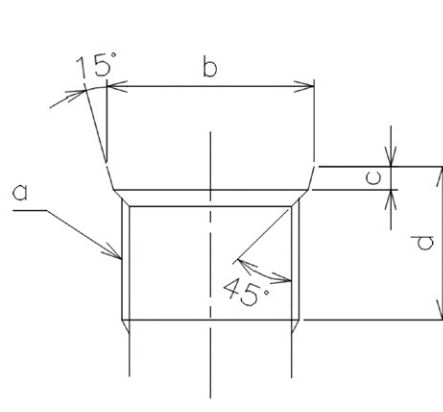
| Model  | Dimensions |      |     |         |
|--------|------------|------|-----|---------|
|        | a          | b    | c   | d-depth |
| K7V63  | 50.8       | 88.9 | Φ60 | M12-18  |
| K7V125 | 50.8       | 88.9 | Φ60 | M12-18  |

2) Delivery port



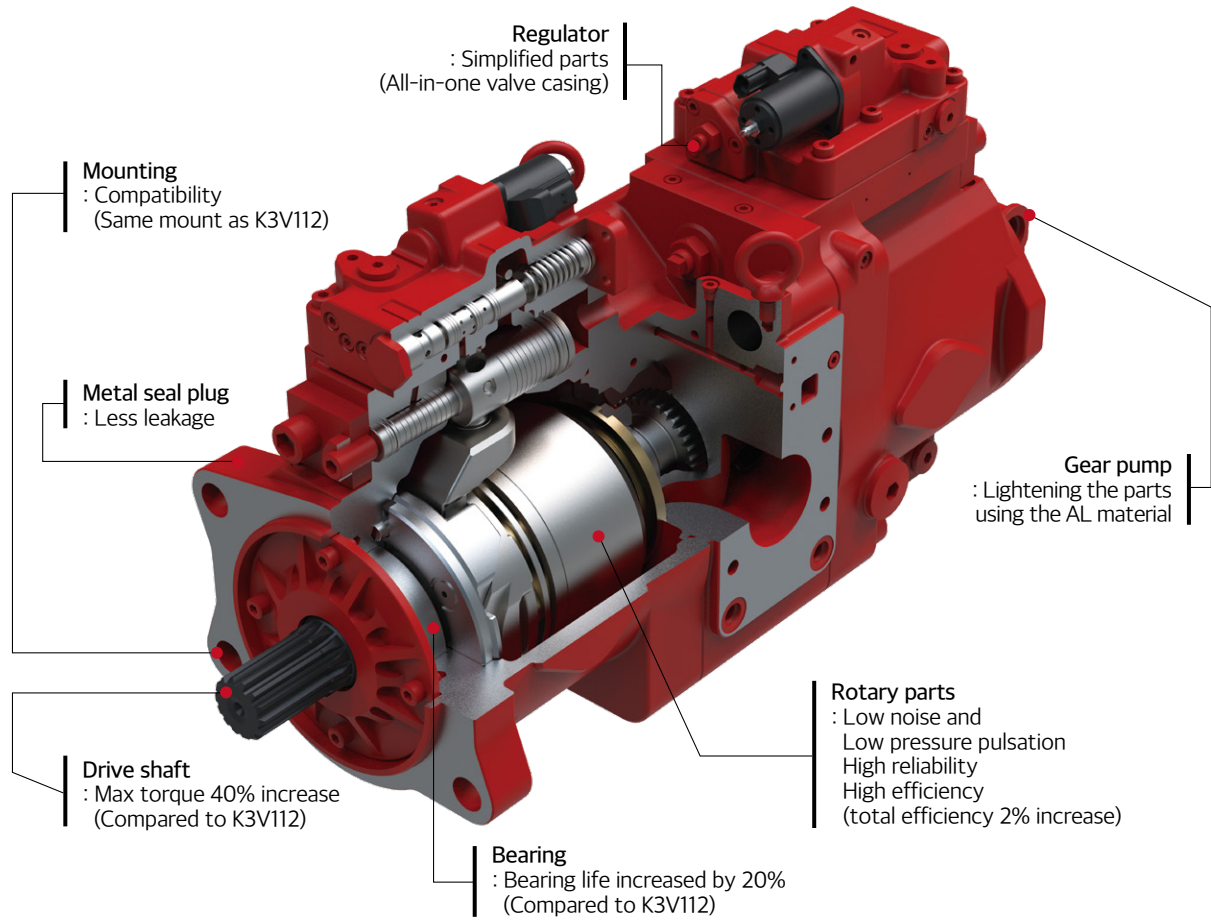
| Model  | Dimensions |      |     |      |         |
|--------|------------|------|-----|------|---------|
|        | a          | b    | c   | d    | e-depth |
| K7V63  | 23.8       | 50.8 | Φ19 | 26.1 | M10-16  |
| K7V125 | 27.8       | 57.2 | Φ25 | 36.0 | M12-22  |

3) Drain port



| Model  | Dimensions |      |     |         |
|--------|------------|------|-----|---------|
|        | a          | b    | c   | d-depth |
| K7V63  | G1/2       | 22.6 | 2.5 | 19      |
| K7V125 | G3/4       | 30.8 | 3.5 | 20      |

Structure and Features



Summary of Regulator

Horsepower control

| Code | Control Type                  | Control Curve |
|------|-------------------------------|---------------|
| 1    | constant horsepower control   |               |
| 2    | total Horsepower control      |               |
| 4    | high pressure cut-off control |               |
| 5    |                               |               |
| 6    |                               |               |
| 9    | variable horsepower control   |               |

Flow control

| Code | Control Type              | Control Curve |
|------|---------------------------|---------------|
| M    | manual flow control       |               |
| P    | positive flow control     |               |
| N    | negative flow control     |               |
| C    | 2-stage max. flow control |               |
| L    | load sensing control      |               |
| E    | electric flow control     |               |