

# Electric Proportional and Directional Pilot Control Valves

Cartridge Type

## KDRDE5K (Proportional type)

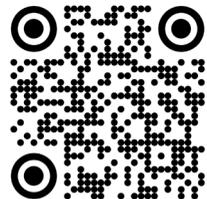
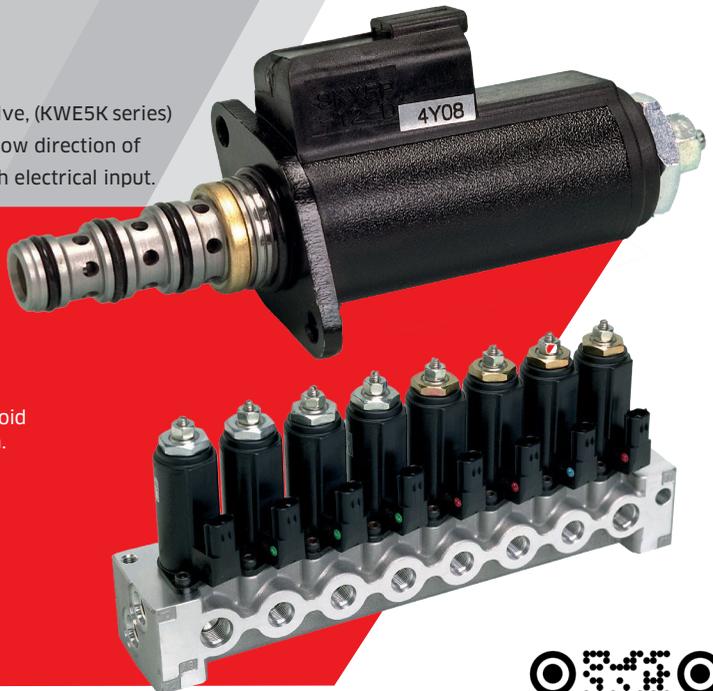
The proportional pressure-reducing valve, part of the KDRDE5K series, adjusts pilot pressures based on an electrical input. It's used to control the tilting angle of Kawasaki variable displacement pumps and the spool position of control valves as well as proportional control of pilot circuits. It plays a vital role in the electric control systems of industrial vehicles.

## KWE5K (ON-OFF Type)

The electric directional control valve, (KWE5K series) has the capability to switch the flow direction of pilot pressures in accordance with electrical input.

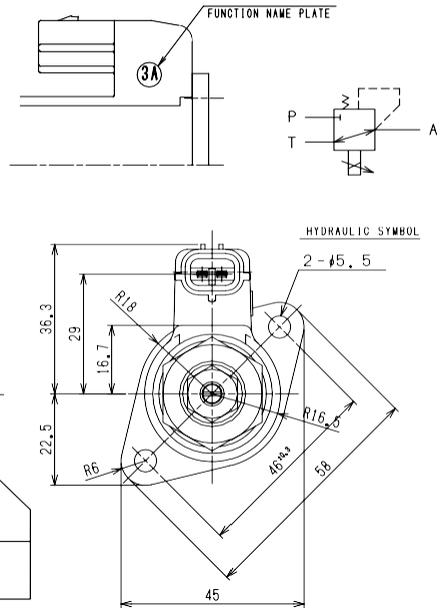
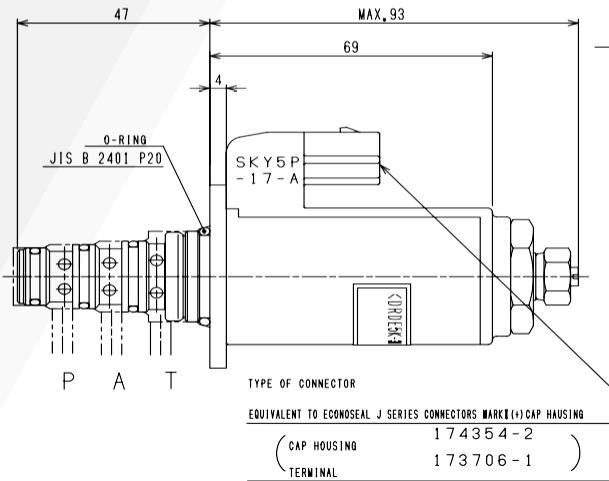
## Features

- Compact design
- Easy to maintain due to the cartridge type design.
- Suitable for various circuit solenoid valves with monoblock design.
- Proven performance and reliability in use with construction machinery manufacturers around the world.



# Installation Dimensions

\*KDRDE5K shown for reference



| Model Code                                 |                                  | KDRDE5K-31/30C50-143-T<br>Proportional Type                     | KWE5K-31/G24DB50-KY-T<br>ON-OFF Type |
|--------------------------------------------|----------------------------------|-----------------------------------------------------------------|--------------------------------------|
| MAX. WORKING PRESSURE (PRESSURE IN PORT P) |                                  | 13.7 MPa                                                        |                                      |
| MAX. BACK PRESSURE (PRESSURE IN PORT T)    |                                  | 1.0MPa                                                          |                                      |
| MAX. FLOW                                  |                                  | 10 L/min                                                        | 16 L/min                             |
| ELECTRICAL<br>SPECIFICATIONS               | RATED CURRENT/ VOLTAGE           | 70mA RATED CURRENT                                              | DC24V RATED VOLTAGE                  |
|                                            | RECOMMENDED DITHER FREQUENCY     | 80Hz/200mA P-P                                                  |                                      |
|                                            | COIL RESISTANCE                  | 17.5 Ω (at 20°C)                                                |                                      |
|                                            | ALLOWABLE VOLTAGE RANGE          |                                                                 | 20.4~27.6V                           |
|                                            | RATED ELECTRIC POWER CONSUMPTION |                                                                 | 17W (at 24V,20°C)                    |
|                                            | SURGE PROTECTION                 | NO POLARITY                                                     | WITH POLARITY                        |
| OPERATING TEMPERATURE RANGE                |                                  | -30~+80°C                                                       |                                      |
| WATER RESISTANCE                           |                                  | JIS D 0203<br>ACCORDING TO JIS D203 52                          |                                      |
| TYPE OF CONNECTOR                          |                                  | EQUIVALENT TO ECONOSEAL J SERIES CONNECTORS MARK(+)/CAP HOUSING |                                      |
| CAP HOUSING                                |                                  | 174354-2<br>ACCORDING TO 174354-2                               |                                      |
| TERMINAL                                   |                                  | 173706-1<br>ACCORDING TO 173706-1                               |                                      |