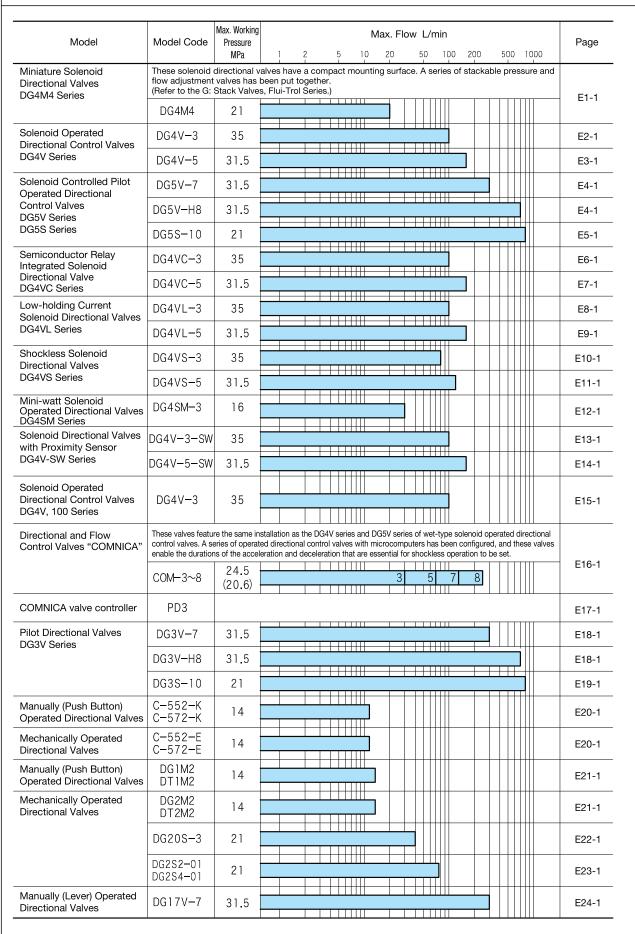
Directional control valves



TOKYO KEIKI INC.



Model	Supported Solenoid Supply Voltage	Supported Electrical Wiring System	Features
DG4V-3 DG4V-5	DC 12V DC 24V DC 100V AC 100V 50/60Hz AC 110V 50/60Hz AC 115V 60Hz AC 120V 60Hz AC 200V 50/60Hz AC 220V 50/60Hz AC 220V 50/60Hz AC 230V 60Hz AC 230V 60Hz AC 240V 60Hz AC 100V → DC 90V AC 110V → DC 100V AC 200V → DC 180V	P (plug-in) U (DIN connector) KU (lead wire)	Standard type Valve switching is performed by turning the solenoid power ON or OFF directly. The power line must be turned ON or OFF through a relay in order for the switching commands to be output from the PLC. These are the valves which have the highest number of supported solenoid supply voltages, electrical wiring systems and spool models.
DG4VC-3 DG4VC-5	DC 24V	P (plug-in)	 In these valves, the solenoid drive circuit is contained inside the conduit box. The switching operations can be performed using transistor level signals so the command signals can be output straight from the PLC or other device to operate the valves. There is no need for relays to be used for the power lines in the control board. The valve bodies are the same as those of the DG4V-3/5 so the switching performance and other aspects of the basic performance of the valves are identical.
DG4VL-3 DG4VL-5	DC 24V	P (plug-in)	These are energy-saving types of valves in which the current is controlled by the solenoid drive circuit incorporated into the conduit box and in which, when 0.3 sec. has elapsed after energizing, the current is reduced to about 20% of the level when the current started to flow so that the power consumption is minimized as a result. The higher the proportion of the time when the switching frequency is low and the solenoids are energized and kept energized, the greater the energy savings that can be expected. The switching operations can be performed using transistor level signals so the command signals can be output straight from the PLC or other device to operate the valves.
DG4VS-3 DG4VS-5	DC 12V DC 24V DC 100V AC 100V → DC 90V AC 110V → DC 100V AC 200V → DC 180V	P (plug-in) U (DIN connector) KU (lead wire)	These are shockless type valves in which the shock that occurs during switching is minimized thanks to the shockless mechanism which has been incorporated into the spools and solenoid cores. Use of the plug-in types can be combined with changes in the conduit box so models can be used in combination with the DG4VC and DG4VL valves. Contact Tokyo Keiki for combination of these valves with the DG4VC and DG4VL valves.
DG4SM-3	DC 12V DC 24V	P (plug-in) KU (lead wire)	With these mini-watt valves, the power consumption has been reduced down to 5 W. They are useful when operation is to be performed for prolonged periods of time using battery drive or some other power supply with a limited capacity.
DG4V-3-SW DG4V-5-SW	DC 12V DC 24V DC 100V AC 100V 50/60Hz AC 110V 50/60Hz AC 115V 60Hz AC 120V 60Hz AC 200V 50/60Hz AC 220V 50/60Hz AC 220V 50/60Hz AC 230V 60Hz AC 230V 60Hz AC 240V 60Hz AC 100V → DC 90V AC 110V → DC 100V AC 200V → DC 180V	P (plug-in)* U (DIN connector) KU (lead wire) * Only with spring set system A or B	These valves are provided with proximity sensors for monitoring the switching status of the spools. By comparing the sensor output with the command sent to the valve, it is possible to check whether the valve has been switched as instructed by the command.

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