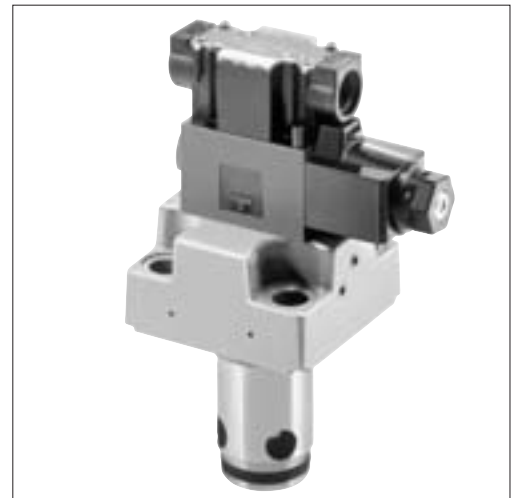## ■ Solenoid Operated Directional Control Logic Valves

These solenoid operated directional control logic valves are composed of directional control valves and solenoid operated directional valves combined together. The solenoid operated directional valves serve to switch pilot lines and the directional control valves are used to control the direction of the main circuits. Covers provided with various control valves are available to provide optimum control.
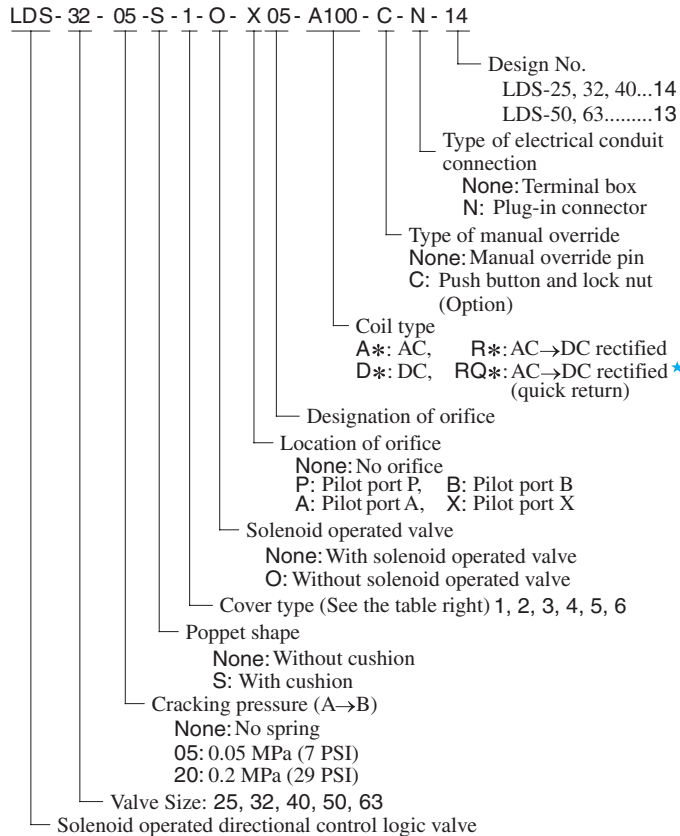
■ Specifications

Model No.	Rated Flow L/min (U.S.GPM)	Max. Operating Pressure MPa (PSI)	Cracking Pressure MPa (PSI)	Ratio of Poppet Area	Approx. Mass kg(lbs.)
LDS-25	350 (92.5)				4.2 (9.3)
LDS-32	500 (132)		Refer to Model No. Designation	2 : 1 (Annular area 50%)	6.5 (14.3)
LDS-40	850 (225)	31.5 (4570)			10.3 (22.7)
LDS-50	1400 (370)				18.6 (41.0)
LDS-63	2100 (555)				33.6 (74.1)

Note: The rated flow is values with a pressure drop of 0.3 MPa (44 PSI) [fluid viscosity 35mm^2/s (164 SSU)].

■ Model Number Designation

LDS- 32 - 05 -S - 1 - O - X 05 - A100 - C - N - 14

- Design No.
  - LDS-25, 32, 40...14
  - LDS-50, 63.........13
- Type of electrical conduit connection
  - None: Terminal box
  - N: Plug-in connector
- Type of manual override
  - None: Manual override pin
  - C: Push button and lock nut (Option)
- Coil type
  - A∗: AC,   R∗: AC→DC rectified
  - D∗: DC,   RQ∗: AC→DC rectified ★ (quick return)
- Designation of orifice
- Location of orifice
  - None: No orifice
  - P: Pilot port P,   B: Pilot port B
  - A: Pilot port A,   X: Pilot port X
- Solenoid operated valve
  - None: With solenoid operated valve
  - O: Without solenoid operated valve
- Cover type (See the table right) 1, 2, 3, 4, 5, 6
- Poppet shape
  - None: Without cushion
  - S: With cushion
- Cracking pressure (A→B)
  - None: No spring
  - 05: 0.05 MPa (7 PSI)
  - 20: 0.2 MPa (29 PSI)
- Valve Size: 25, 32, 40, 50, 63
- Solenoid operated directional control logic valve

★ Applicable only for LDS-50, 63.

■ List of Cover Types

Cover Type Designation	Graphic Symbols	Valve Size				
		25	32	40	50	63
Normally Closed (1)		○	○	○	○	○
Normally Open (2)		○	○	○	○	○
Normally Closed with Shuttle Valve (3)		○	○	○	○	○
Normally Open with Shuttle Valve (4)		○	○	○	○	○
Normally Closed with Shuttle Valve (5)		○	○	○	○	○
Normally Open with Shuttle Valve (6)		○	○	○	○	○

Note: In case of LDS-∗-∗-∗-∗-O (without solenoid operated valve), the graphic symbol for the solenoid operated valve is excluded.

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Logic Valves