

Solenoid Controlled Relief Logic Valves

These solenoid controlled relief logic valves are composite control valves having solenoid controlled directional and pilot relief valves and vent restrictors combined together.

This configuration eliminates pipes from the vent circuits of relief logic valves. They are used to put pumps into unloading operation, with the solenoid controlled directional valves serving to select pilot lines, or to place hydraulic system two or three pressure controls, with the pilot relief valves in action.



Specifications

Model Numbers	Max. Operating Pressure MPa (PSI)	Pres. Adj. Range MPa (PSI)	Max. Flow L/min (U.S.GPM)	Approx. Mass kg(lbs.)	
				LBS-*-0	LBS-*-1/2
LBS-16-*-**-14	31.5 (4570)	0.4 - 31.5 (60 - 4570)	125 (33)	7.2 (15.9)	8.6 (19.0)
LBS-25-*-**-14			250 (66)	8.1 (17.9)	9.5 (20.9)
LBS-32-*-**-14			500 (132)	10.3 (22.7)	11.7 (25.8)
LBS-50-*-**-14			1200 (317)	19.7 (43.4)	21.1 (46.5)

Model Number Designation

LBS- 32 - V - 1 - A100 - C - N - 14

- Design number
- 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
D*: DC
R*: AC→DC rectified
- Cover type (See the following page)
 - 0: No solenoid operated valve
 - 1: Normally closed, for unloading
(Solenoid operated valve spool type: 2B3A)
 - 2: Normally open, for unloading
(Solenoid operated valve spool type: 2B3B)
 - 3: Normally closed, with vent restrictor
(Solenoid operated valve spool type: 2B3A)
 - 4: Normally open, with vent restrictor
(Solenoid operated valve spool type: 2B3B)
 - 5: Two-pressure control
(Solenoid operated valve spool type: 2B2)
 - 6: Three-pressure control
(Solenoid operated valve spool type: 3C9)
 - 7: Two-pressure control and unloading
(Solenoid operated valve spool type: 3C3)
- Specify only for high-vent types★
- Valve size: 16, 25, 32, 50
- Solenoid controlled relief logic valve

★ Use high-vent pressure types if the shifting time from unloading to on-loading is reduced.



List of Cover Type

Cover Type Designation	Graphic Symbols	Valve Size			
		16	25	32	50
Without Solenoid Valve (0)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Normally Closed for Unloading (1)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Normally Open for Unloading (2)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Normally Closed with Vent Restrictor (3)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Normally Open with Vent Restrictor (4)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Cover Type Designation	Graphic Symbols	Valve Size			
		16	25	32	50
Two Pressure Control (5)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Three Pressure Control (6)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Two Pressure Control and Unloading (7)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>