MULTIFUNCTION VALVE (MF3N)



This multifunction valve supports up to 16 control functions with the applicable pressure range and flow range expanded so that it can be used in a variety of applications.

Features

- 1. The maximum applicable range of the valve is 25 MPa and 800 L/min (with size 10).
- 2. The light and compact design of the valve allows simplification of the hydraulic system.
- 3. The main valve is of the poppet type and, in comparison with the spool type, is able to reduce valve pressure loss as well as leak across ports drastically.
- 4. The poppet type main valve ensures quick switching with less shock.
- The popper type finant value ensures quick switching with responses.
 The circuit can be modified readily by changing a part of the component parts.
 The mounting dimensions are compatible with a conventional solenoid value. This means that the multifunction value can be used together with stack values (HY-TEGRA system of the component parts).
 - TOYOOKI).
- The appropriate tightening torque is: Size 06: 45 to 55 N-m
- If a subplate is necessary, please order one separately.
- For the subplate, select HY-TEGRA manifold HMC-1-06-08-T* (page D-67).

Specifications

Nominal size	Max. flow (L/min)	Max. operating pressure (MPa)	Permissible back pressure (MPa)	Crac pres (MI P Port	Pa)	pressure adjustment range	Differential counterbalance pressure adjustment range (MPa)	Pressure control adjustment range (MPa)	Unloading valve pressure adjustment range (MPa)	Pilot valve min. PLT pressure	Pressure relief valve PLT port pressure
06	320	25	25	0.35	0.2	0.7 to 14	0.7 to 14	2 to 25	0.7 to 14	10% of main pressure	10% of main pressure

Solenoid characteristics

For AC SLH5-025B-R1 Model SLH5-025B-R2 Rated voltage AC100 V (50/60 Hz) AC200 V (50/60 Hz) 0.35 A (50/60 Hz) 0.19 A (50/60 Hz) Current Power consumption 31 W 33 W

For DC

	Model	SLH5-025B-D2			
	Rated voltage	DC24 V			
	Holding current	1.2 A			
	Power consumption	29 W			



c circuit	Without tally valve		
Hydrauli	With tally valve		

Types of A·B port control functions

Circled No. (NOTE 1)	Code	Name	Circled No. (NOTE 1)	Code	Name	
(1)	Y Meter-in throttle			А	Pressure control	
(NOTE 3)	W	Meter-in 2-speed	0	Т	Solenoid-operated 1 pressure level control (Normally open)	
	Ζ	Differential counterbalance		Н	Solenoid-operated 2 pressure level control (Normally open)	
2	F	Meter-out throttle		Р	Solenoid-operated 1 pressure level control (Normally closed)	
3	В	Counterbalance		S	Solenoid-operated 2 pressure level control (Normally closed)	
(4)	К	Pilot check		М	Solenoid-operated pressure relief (Normally open) (NOTE 2)	
5	R	Safe		L	Solenoid-operated pressure relief (Normally close) (NOTE 2)	
(6)	Е	Pressure relief Unloading			Differential circuit	
0	Q			ar Ins	R-port check	
NOTE 1: A number in the Circled No. column indicates the circled number of the					Vent operation pressure control	

A·B port control functions. NOTE 2: To use "M" or "L", use "E" also.

NOTE 3: Simultaneous use of "W" and "Z" (Example: W for A port and Z for B port) is not permitted. NOTE 4: indicates special specifications.

Hydraulic circuit symbols



NOTE 1: Circled letters indicate the control function codes for the A and B ports.
NOTE 2: Concerning functions Y, W and Z, one of these functions is installed for each port. In this drawing, two functions are shown for each port for the purpose of explanation.
NOTE 3: At the position where the S or L function is shown, any of the seven functions indicated below can be installed.
NOTE 4: The flow of the @, B, B, A, T, H, P, S, M and L function is regulated by the setting of the F function installed at the same port.



Outside dimensions



Mounting dimensions

