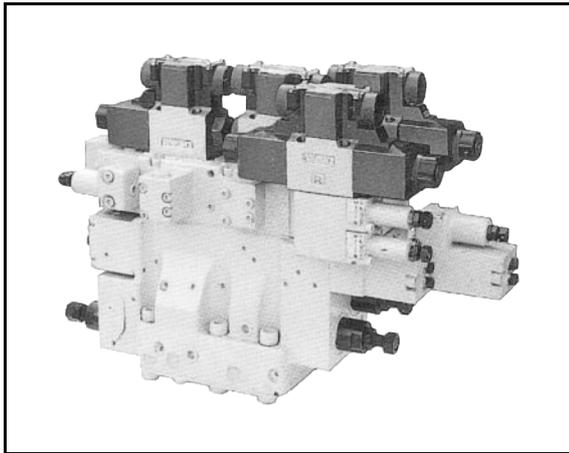


MULTIFUNCTION VALVE (MF3N)



This type of 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.
5. The circuit can be modified readily by changing a part of the component parts.
6. The mounting dimensions are compatible with a conventional solenoid valve. This means that the multifunction valve can be used together with stack valves (HY-TEGRA manifold HMC-1-06-08-T* (page 187).

- 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 187).

SPECIFICATIONS

Nominal Size	Max. Flow (L/min)	Max. Operating Pressure (MPa)	Permissible Back Pressure (MPa)	Cracking Pressure (MPa)		Counterbalance Pressure Adjustment Range (MPa)	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 Pressure
				P Port	R Port						
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

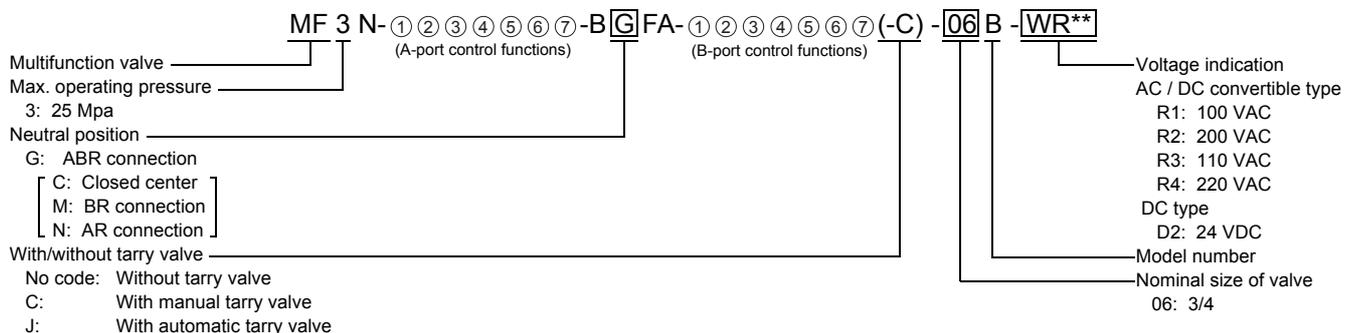
• For AC

Model	SLH5-025B-R1	SLH5-025B-R2
Rated Voltage	100 VAC (50/60 Hz)	200 VAC (50/60 Hz)
Current	0.35 A (50/60 Hz)	0.19 A (50/60 Hz)
Power Consumption	31 W	33 W

• For DC

Model	SLH5-025B-D2
Type	DC solenoid
Rated Voltage	24 VDC
Holding Current	1.2 A
Power Consumption	29 W

MODEL DESIGNATION



Directional Control Function	BCFA	BGFA	BMFA	BNFA
Without Tarry Valve				
With Tarry Valve				

TYPES OF A-/B-PORT CONTROL FUNCTIONS

Circled No. (NOTE 1)	Code	Name
① (NOTE 3)	Y	Meter-in throttle
	W	Meter-in 2-speed
	Z	Differential counterbalance
②	F	Meter-out throttle
③	B	Counterbalance
④	K	Pilot check
⑤	R	Safe
⑥	E	Pressure relief
	Q	Unloading
⑦	A	Pressure control
	T	Solenoid-operated 1 pressure level control (Normally open)
	H	Solenoid-operated 2 pressure level control (Normally open)
	P	Solenoid-operated 1 pressure level control (Normally closed)
	S	Solenoid-operated 2 pressure level control (Normally closed)
	M	Solenoid-operated pressure relief (Normally open) (NOTE 2)
	L	Solenoid-operated pressure relief (Normally close) (NOTE 2)
Regular functions		Differential circuit
		R-port check
		Vent operation pressure control

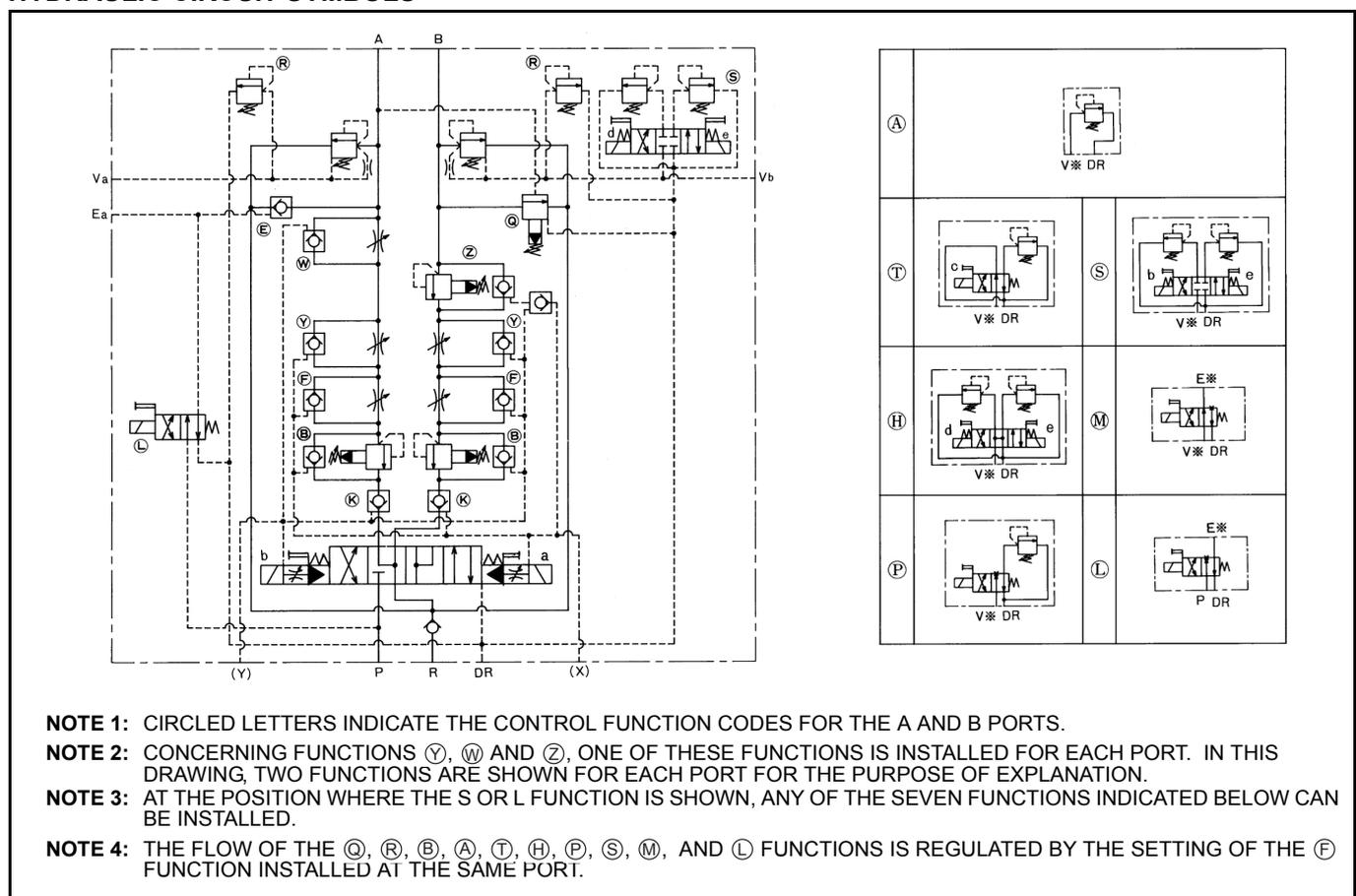
NOTE 1: A number in the Circled No. column indicates the circled number of the A- / B-port control functions.

NOTE 2: To use "M" or "L", use "E" also.

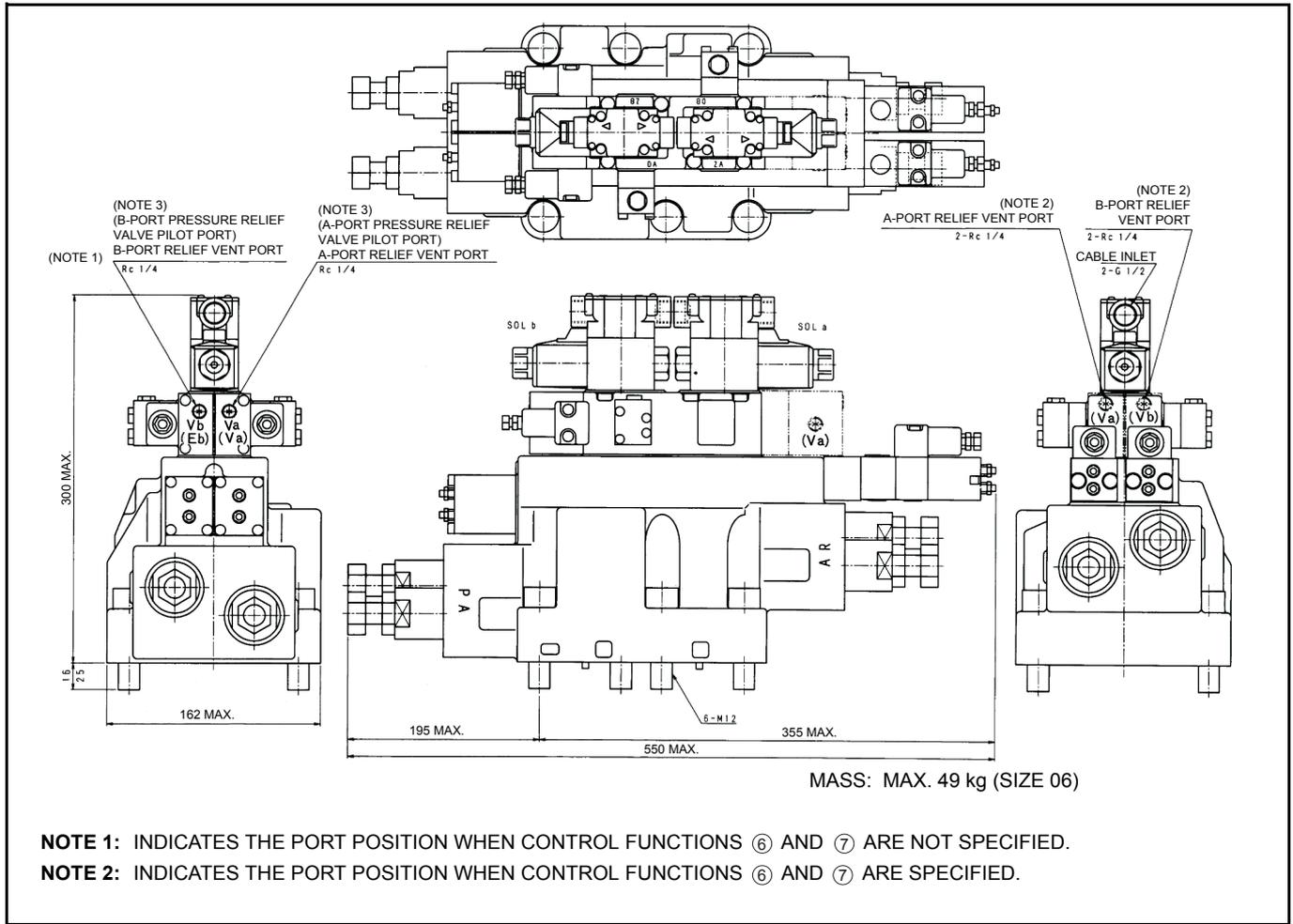
NOTE 3: Simultaneous use of "W" and "Z" (Example: W for A port and Z for B port) is not permitted.

NOTE 4: [] indicates special specifications.

HYDRAULIC CIRCUIT SYMBOLS



EXTERNAL DIMENSIONS



MOUNTING DIMENSIONS

