

### Composite Valve Series Logic Valve

200 to 2300ℓ/min  
28,32MPa



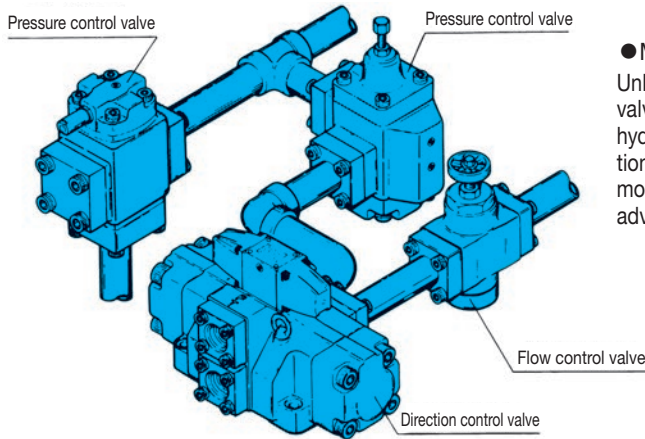
#### Overview

HYDRO-LOGIC composite valves revolutionize the structure of hydraulic control valves in a way that makes it possible to control multiple functions with a single valve. Unlike contemporary valves that limit each valve to a single function, the HYDROLOG-

IC control valve allows a tremendous reduction in overall equipment size and energy savings as well. In addition, a poppet structure delivers high response, low leakage, and outstanding power.

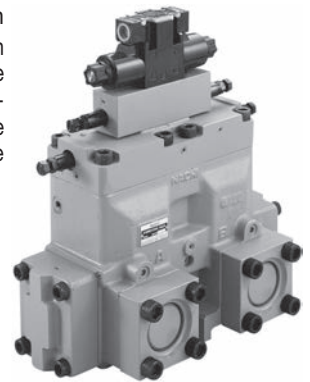
These valves are made possible by

fully applying technology of the proven cartridge logic valve. A gasket type and flange type logic valve series can be used with total confidence in a wide variety of hydraulic applications. (For details, see catalog number 9244-2.)



- **Multi-function in a compact design**  
Unlike single-valve systems where each valve performs a particular function, the hydro-logic valve provides multiple functions in a very compact configuration. The more complex a circuit is, the greater the advantages of using this type of valve.

Hydro-logic valve



#### Features

① **Multi-function composite valve to meet high-level hydraulic needs**

A single multi-function composite valve controls direction, pressure and flow.

② **Makes hydraulic equipment more compact**

Since a single valve performs multiple functions, the number of required valves is reduced, which simplifies the hydraulic circuit and makes the overall design of the equipment more compact.

③ **Fast switching with less shock**

A poppet valve is used for the basic structure, which eliminates overrun and reduces mass for very fast switching. A restrictor valve built into the pilot line makes it possible

to freely set the open/close timing of each port and easily reduce shock.

④ **Less internal leaking than spool type valves**

Poppet seal construction minimizes seat leaks, while a long slide length ensures much less internal leaking than a spool type valve.

⑤ **Dramatically reduced hydraulic equipment production cost**

A fewer valves not only means more compact designs, it also translates into much lower production costs.

⑥ **Dimensions conform to international ISO standards**

The 06, 10 sizes gasket type valve mounting dimensions conform

to ISO standards for easy interchangeability with existing valves (except for 3-direction valves).

⑦ **Simple mounting, without modification**

Unlike cartridge type valves that require drilling of holes in the block, gasket installation and flange connection of this type of valve is quick and simple.

⑧ **A wide selection of valve models**

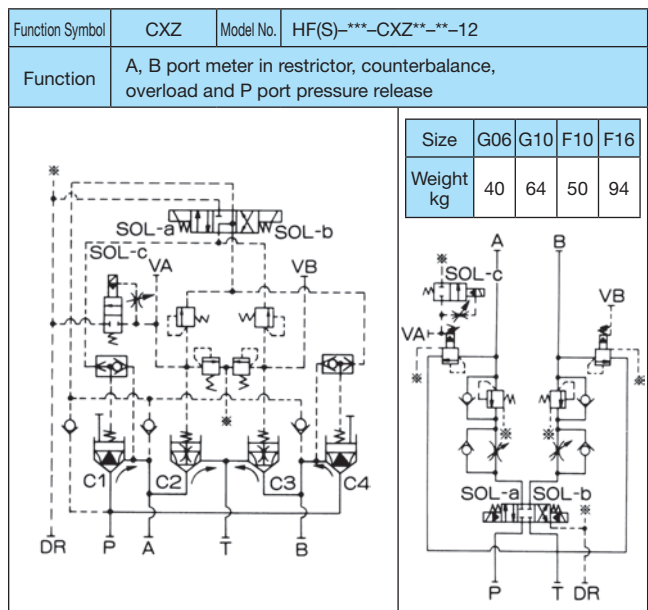
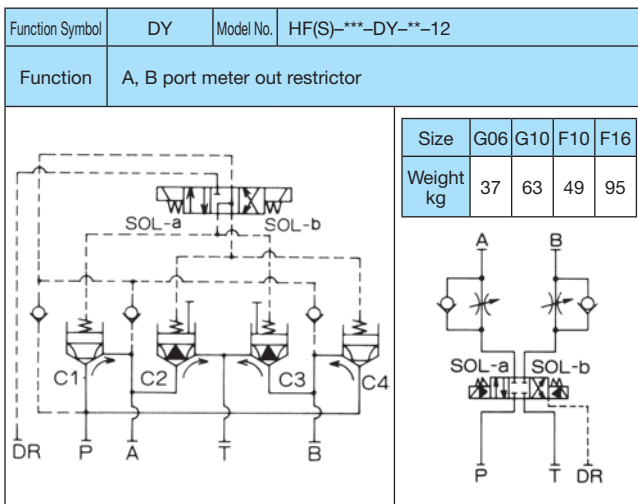
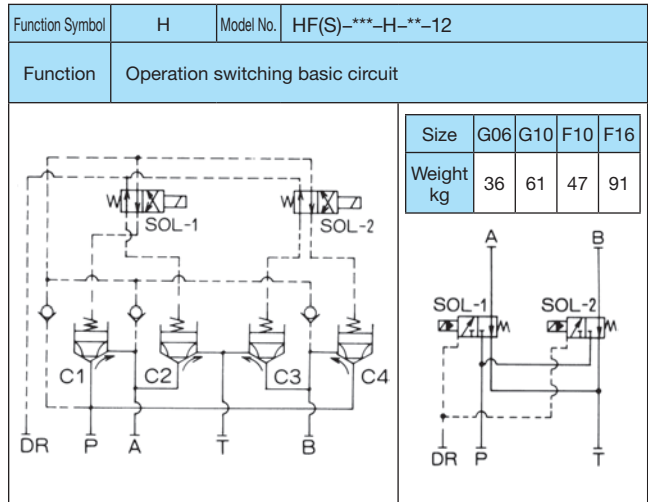
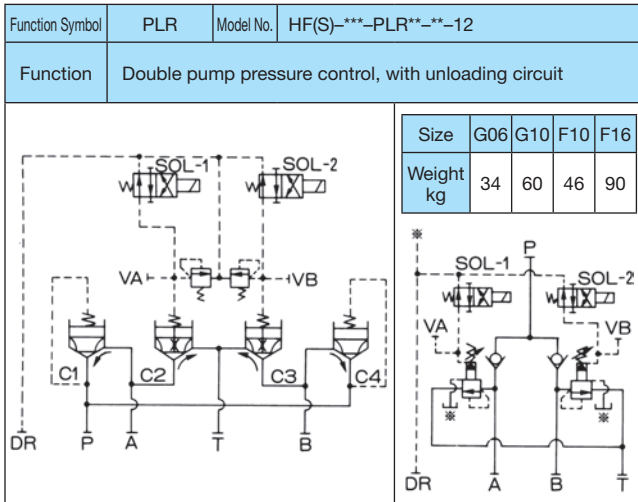
An extensive selection of models includes Size 13 2-direction valves and size 2000 3-direction and 4-direction valves to meet a wide range of needs.

#### Main Specifications

2-Direction Valves	3-Direction Valves	4-Direction Valves		Pipe Diameter (Nominal Diameter)	Maximum Working Pressure MPa{kgf/cm <sup>2</sup> }	Maximum Flow Rate ℓ/min
		Gasket Mounting	Flange Mounting			
HT(S)-G06	HY(S)-G06	HF(S)-G06	—	3/4B	28{286} (32{326})Note 2	200(*120)
HT(S)-G10	HY(S)-G10	HF(S)-G10	HF(S)-F10	1 1/4B		500(*300)
HT(S)-G16	—	—	HF(S)-F16	2B		1000(*600)
—	—	—	HF(S)-F24	3B(4B)	32{326}	2300

Note) 1. Flow rates marked with an asterisk (\*) apply to 2-direction model number 2G\* (pressure reducing valve).  
2. The maximum operating pressure for 3-direction valves is 32MPa {326kgf/cm<sup>2</sup>}.  
Contact your agent for details.

# Main Circuit Symbol Examples



## Applications

