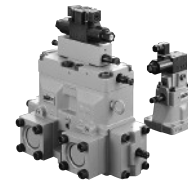


Composite Valve Series Logic Valve

200 to 2300 ℓ /min
28,32MPa



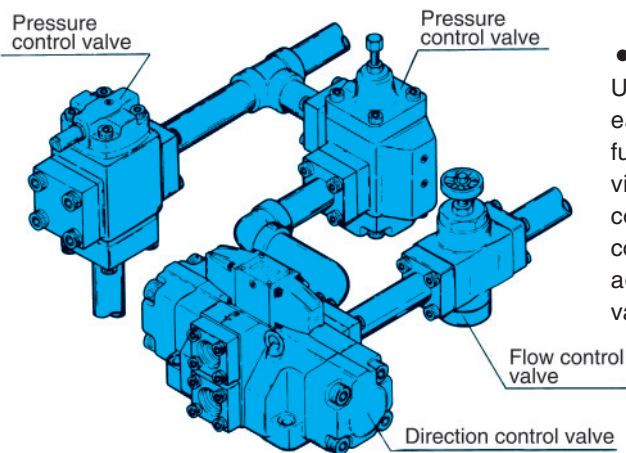
Overview

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 HYDRO-

LOGIC 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.

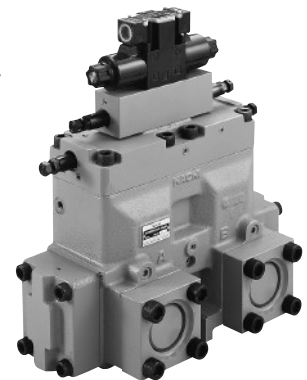
(For details, see catalog number 9244.)



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 mount-

ing 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 ²)	Maximum Flow Rate ℓ /min
		Gasket Mounting	Flange Mounting			
HT(S)-G06	HY(S)-G06	HF(S)-G06	—	¾B	28(286)	200(*120)
HT(S)-G10	HY(S)-G10	HF(S)-G10	HF(S)-F10	1¼B	(32(326))	500(*300)
HT(S)-G16	—	—	HF(S)-F16	2B	Note 2	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/cm²}.

Contact your agent for details.

Main Circuit Symbol Examples

Function Symbol	PLR	Model No.	HF(S)---***-PLR**---**-12
Function	A, B port meter out restrictor		

Size	G06	G10	F10	F16
Weight kg	34	60	46	90

Function Symbol	H	Model No.	HF(S)---***-H---**-12
Function	Operation switching basic circuit		

Size	G06	G10	F10	F16
Weight kg	36	61	47	91

Function Symbol	DY	Model No.	HF(S)---***-DY---**-12
Function	A, B port meter out restrictor		

Size	G06	G10	F10	F16
Weight kg	37	63	49	95

Function Symbol	CXZ	Model No.	HF(S)---***-CXZ---**---12
Function	A, B port meter in restrictor, counterbalance, overload and P port pressure release		

Size	G06	G10	F10	F16
Weight kg	40	64	50	94

Applications

