

2.14

4/3, 4/2 and 3/2 directional valve with fluidic actuation

Type WH 10, 16, 25 and 32

Sizes $10 \sim 32$ Up to 350 bar Up to 1100L/min



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Features

- Valves used to control the start, stop and direction of a fluid flow
- Hydraulic operation (WH)
- Porting pattern conforms o DIN 24 340 form A, ISO 4401 and CETOP-RP 121 H

Function and configuration

Valves of type WH are directional spool valves with hydraulic operation. They control the start, stop and direction of a flow.

1.Spring-centred valve:

The main spool (2) is kept in the centre position by the return springs (3). If external control fluid enters main valve(1) from port X then enters left spring chamber(5) via cover(4), the main spool is pushed into the switching position. The oil of right spring chamber returns to tank from port Y. When the control fluid is cancelled, the main spool returns to centre position under the action of right spring force. And if the control fluid enters from port Y, then the main spring moves to left to switching direction and the oil of left spring chamber returns to tank from port X.



Switching time adjustment (see WEH) Characteristic curve (see WEH) Performance limits (see WEH) Flow area when valve is in central position (see WEH) Technical data (see hydraulic part of WEH technical data)

Ordering code



Notes:

1. All control oil are external supply and external drain.

2. Control pressure in port X and port Y is not allowed to exceed 250 bar.

Symbols



Connection dimensions and sub-plate

- 1. The same size of type WH and type WEH share same installation, connection dimensions and sub-plate.
- Regarding dimention, only the height of type WH is different from that of type WEH. For type WH, there is a cover (height: 12mm) on top of the main valve. Also switching time adjusted can be topped with a height of 30mm. Details see WEH.