



# WH...type Hydraulic Directional Control Valve



WH 10, 16, 25, 32 type

Sizes 10, 16, 25, 32

Max. Working Pressure: 315 bar

Max. Flow: 1100L/min

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#### **Features**

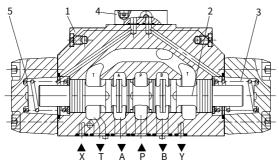
- Valves used to control the start, stop and direction of a fluid flow
- Hydraulic operation (WH)
- Porting pattern conforms o DIN 24 340 form A, ISO 4401 and CETOP-RP 121 H

### **Function and configuration**

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

#### 1.Spring-centred valve:

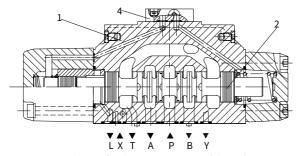
The main spool (2) is kept in the centre position by the return springs (3). If external control fluid enters main valve(1) from port X then enters left spring chamber(5) via cover(4), the main spool is pushed into the switching position. The oil of right spring chamber returns to tank from port Y. When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



Structure chart of valve type WH25 with spring-centred

#### 2. Hydraulic-centred valve:

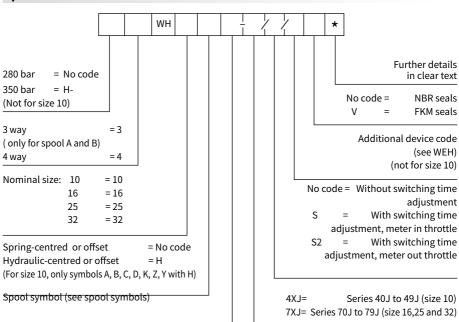
Pressure fluid acts on both sides of main spool (2) and main spool(2) is fixed by a locating sleeve. It moves under pressure at opposite side to switch direction when one side of the main spool is unloaded. If the control fluid enters left chamber of main valve from port X, the main spool moves right, the fluid of right chamber returns to tank from port Y; and if the control fluid enters right chamber from port Y, the main spool moves left, the fluid of left chamber returns to tank from port X. Internal leakage oil directly returns to tank from port L.



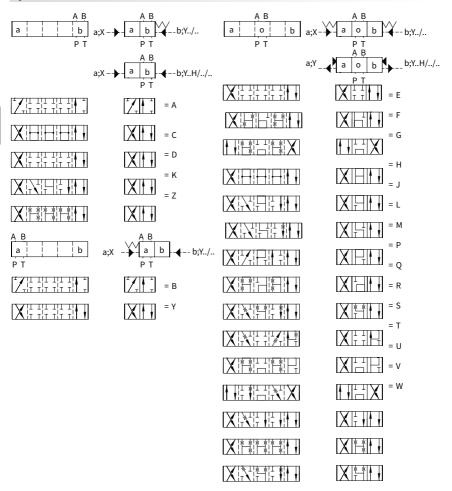
Structure chart of valve type WH25 with spring-centred

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)
Additional device (stroke adjustment) (see WEH)

# **Specification**



## **Symbols**



## Connection dimensions and sub-plate

- 1. The installation, connection dimensions and sub-platesame of type WH is as same as type WEH.
- 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 40mm. Details see WEH.