



Up to 80 l/min Up to 350 bar

#### **FUNCTION**



The shuttle valve WVT is a ball poppet shut-off valve. It has two inlets (port P1 and P2) and one outlet (port A). The inlet with the higher pressure pushes the closing element towards the other inlet. The inlet with the higher pressure is therefore always automatically connected to the outlet, and the other inlet is shut off. Shuttle Valve 3-Way Inline Mounted – 350 bar WVT 6S / 8S / 10S / 12S

## FEATURES

- For safe and leak-free shut-off
- For control circuits with pilot-operated and remote-controlled directional valves, variable & control pumps and logic elements
- Various sizes for optimum adaptability to the system
- Inline body with compression fittings
- External surfaces zinc-plated
- Negative switching overlap
- Space-saving installation

# **SPECIFICATIONS**

| Operating pressure:                | max. 350 bar   |  |  |  |  |
|------------------------------------|--|--|--|--|--|
| Nominal flow:                      | max. 80 l/min  |  |  |  |  |
|                                    | Type 6S = 12 I/min   |  |  |  |  |
|                                    | Type 8S = 25 I/min   |  |  |  |  |
|                                    | Type 10S = 45 l/min  |  |  |  |  |
|                                    | Type 12S = 80 l/min  |  |  |  |  |
| Media operating temperature range: | min30 °C to max. +100 °C   |  |  |  |  |
| Ambient temperature range:         | min30 °C to max. +100 °C   |  |  |  |  |
| Operating fluid:                   | Hydraulic oil to DIN 51524 Part 1 and 2                                    |  |  |  |  |
| Viscosity range:                   | min. 2.8 mm <sup>2</sup> /s to max. 380 mm <sup>2</sup> /s                 |  |  |  |  |
| Filtration:                        | Class 21/19/16 according to ISO 4406 or                                    |  |  |  |  |
|                                    | cleaner  |  |  |  |  |
| MTTF <sub>d</sub> :                | 150 years (see "Conditions and instructions for valves" in brochure 5.300) |  |  |  |  |
| Installation:                      | No orientation restrictions  |  |  |  |  |
| Materials:                         | Valve body: high tensile steel   |  |  |  |  |
|                                    | Ball: roller bearing steel   |  |  |  |  |
| Weight:                            | WVT-6S = 0.135 kg  |  |  |  |  |
|                                    | WVT-8S = 0.155 kg  |  |  |  |  |
|                                    | WVT-10S = 0.22 kg  |  |  |  |  |
|                                    | WVT-12S = 0.29 kg  |  |  |  |  |

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#### DIMENSIONS



Valve body to DIN EN ISO 8434-1 Coupling nut DIN 3870

Compression fittings to DIN 3861 supplied loose with the

| Туре       | G       | L  | D  | AD         | IDmax. | S1 | S2 |
|------------|---------|----|----|------------|--------|----|----|
| WVT-06 S-X | M14x1.5 | 62 | 46 | 6          | 4      | 14 | 17 |
| WVT-08 S-X | M16x1.5 | 64 | 48 | 8          | 5      | 17 | 19 |
| WVT-10 S-X | M18x1.5 | 68 | 50 | 10         | 7      | 19 | 22 |
| WVT-12 S-X | M20x1.5 | 76 | 58 | 12         | 8      | 22 | 24 |
|            |         |    |    | Millimeter |        |    |    |

Subject to technical modifications

## **MODEL CODE**



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Connection size
 6S = M 14 x 1.5
 8S = M 16 x 1.5
10S = M 18 x 1.5
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12S = M 20 x 1.5

compression fitting to DIN 3861 with coupling nut to DIN 3870

<u>WVT - 10S - 1</u>

#### Series -

(determined by manufacturer)

#### Standard models

| Model code              | Part No. |  |
|-------------------------|----------|--|
| WVT-6S-1-ZINC-PLATED    | 710133   |  |
| WVT-8S-1-ZINC-PLATED    | 710134   |  |
| WVT-10S-1-ZINC-PLATED   | 710140   |  |
| WVT-12S-1-ZINC-PLATED   | 710132   |  |
| Other medals on request |          |  |

Other models on request

## PERFORMANCE

Pressure differential  $\Delta p$  against flow rate Q, measured at  $v = 40 \text{ mm}^2/\text{s}$  and  $T_{oil} = 42 \text{ °C}$ 



**NOTE** The information in this brochure relates to the operating conditions and applications described. For applications or operating conditions not described, please contact the relevant technical department. department. Subject to technical modifications.

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