



up to 70 l/min up to 350 bar

### **FUNCTION**



The shuttle valve WVE is a ball poppet shut-off valve.

It has two inlets (port 1 and 3) and one outlet (port 2). 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 Cartridge – 350 bar** WVE-R1/8 to R1/2

# FEATURES

- For safe and leak-free shut-off
- Choice of three sizes for optimum adaptability to the system
- Space-saving installation

# SPECIFICATIONS\*

Operating pressure:	max. 350 bar		
Nominal flow:	Type R1/8 = max. 10 l/min Type R1/4 = max. 20 l/min Type R1/2 = max. 70 l/min		
Media operating temperature range:	min20 °C to max. +120 °C		
Ambient temperature range:	min20 °C to max. +120 °C		
Operating fluid:	Hydraulic oil to DIN 51524 Part 1, 2 and 3		
Viscosity range:	min. 2.8 mm²/s to max. 800 mm²/s		
Filtration:	Class 21/19/16 according to ISO 4406 or cleaner		
MTTF <sub>d</sub> :	150 - 1200 years, according to DIN EN ISO 13849-1		
Installation:	No orientation restrictions, preferably horizontal		
Materials:	Valve body: high tensile steel Ball: roller bearing steel Seals: FKM (WVE-R1/4 = FKM, PU)		
Cavity:	03030, 05030, 08730		
Weight:	WVE-R1/8 = 0.005 kg WVE-R1/4 = 0.012 kg WVE-R1/2 = 0.045 kg		

\* see "Conditions and instructions for valves" in brochure 53.000

### **MODEL CODE**

### <u>WVE – R1/4 – 01 X</u> **Basic model** Shuttle valve Cartridge size R1/8 = 1/8" R1/4 = 1/4"R1/2 = 1/2" Other thread sizes on request

#### Туре

#### 01 = standard (phosphated)

#### **Series**

(determined by manufacturer)

Standard models	
Model code	Part No.
WVE-R1/8-010	710125
WVE-R1/4-010	710126
WVE-R1/2-010	3467544
Other models on request	
Seal kits	
Code	Part No.
SEAL KIT FOR WVE-R1/8-VITON	715879
SEAL KIT FOR WVE-R1/4-VITON	715880

## TYPICAL PERFORMANCE

Pressure differential  $\Delta p$  against flow rate Q, measured at constant flow setting  $\nu$  = 36 mm²/s and T\_{\_{oil}} = 40 °C



Pressure differential  $\Delta p$  against flow rate Q, measured at constant flow setting  $\nu$  = 33 mm²/s and T\_{\_{oil}} = 46 °C WVE-R1/2



# DIMENSIONS

WVE-R1/8



Millimeter Subject to technical modifications

WVE-R1/2



EN 5.173.1.3/04.20

# CAVITY

03030



centred Info: Cavity G 1/8 for Alu processing

Millimeter Subject to technical modifications



Cavity G 1/4 for Alu processing

08730



Subject to technical modifications

### Form tools

Cavity / Part No.		
03030	05030	08730
171856	171857	179632
1000747	1000754	In preparation
1002671	1002670	In preparation
_	159565	In preparation
	Cavity / Pa 03030 171856 1000747 1002671 -	Cavity / Part No.   03030 05030   171856 171857   1000747 1000754   1002671 1002670   - 159565

### 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. Subject to technical modifications.

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