

Genuine Metaris 4WRLE & 4WRPEH Series Valves

Interchange Proportional Directional Control Valves



Directional Control Valves with Electrical Position Feedback & Integrated Electronics

Our Genuine Metaris 4WRLE and 4WRPEH Series valves are pilot-operated & direct operated directional control valves with electrical position feedback and integrated electronics (OBE). These are high performance proportional directional valves that are very reliable, stable, and highly accurate due to their electrical position feedback design. These are excellent direct interchange options for Rexroth[®] 4WRLE and 4WRPEH Series Directional Valves.

- Industrial-grade high performance valves
- Spring-centered main control spool
- Subplate mounting: porting pattern according to ISO 4401
- Valve sizes ranging from Size 6 to Size 27
- Maximum operating pressure of 4,568 5,080 psi (315 - 350 bar)
- Rated flow rate ranging from .53 158.5 gpm (2 - 600 L/min)
- Suitable for applications needing position, speed or pressure control
- Direct interchange option for Rexroth® 4WRLE & 4WRPEH Series Valves



4WRLE Model Code Breakdown



P = Linear with fine control range

M = Progressive w/ linear fine control (only symbol Q3-)

4WRPEH Model Code Breakdown

<u>4WRPEH</u> - <u>6</u> - <u>**</u> - <u>B</u> - <u>**</u> - <u>2X</u> / <u>G24</u> - <u>K0</u> / <u>**</u> - <u>M</u>								
Series 4WRPEH = 4 Main Ports, directional control valve, direct operated, with integrated electronics (OBE), control spool/sleeve	Seal Material M = NBR Seals Electronics Interface							
Valve Size 6 = Size 6	A1 = Command value input ±10 V F1 = Command value input 4 to 20 mA							
Symbols A, B N	Electrical Connection K0 = Without mating connector; connector DIN 43563-AM6							
$\begin{array}{c c} a & 0 & b \\ P' T & P' T \\ C3 = \\ C5 = \\ T & X \\ X$	Supply Voltage G24 = 24 V DC Voltage							
$C4 = \begin{bmatrix} \pm \pm \\ \mp \\ \mp \end{bmatrix} \begin{bmatrix} \mp \\ \mp \\ \mp \end{bmatrix} \begin{bmatrix} \pm \pm \\ \mp \\ \mp \\ \mp \end{bmatrix} \begin{bmatrix} \pm \pm \\ \mp \\ \mp \\ \mp \end{bmatrix} \begin{bmatrix} \pm \pm \\ \mp \\ \mp \\ \mp \end{bmatrix} \begin{bmatrix} \pm \\ \mp \\ \mp \\ \mp \end{bmatrix} \begin{bmatrix} \pm \\ \mp \\ \mp \\ \mp \\ \mp \end{bmatrix} \begin{bmatrix} \pm \\ \mp \\ \mp \\ \mp \\ \mp \end{bmatrix} \begin{bmatrix} \pm \\ \mp \\$	Component Series 2X = Component Seies 2029 (Unchanged instalation and mounting							
	dims.)							
For symbols C5 and C1: ¹ $P \rightarrow A: q_{V \text{ nom}} \qquad B \rightarrow T: q_{V \text{ nom}}/2$ $P \rightarrow B: q_{V \text{ nom}}/2 \qquad A \rightarrow T: q_{V \text{ nom}}$	Characteristic Curve Form L = Linear P = Inflected characteristic curve (inflection 60% with version "15" and "05" ethemuice 40%							
Note: Representation according to DIN ISO 1219-1. Hydraulic interim positions are shown by dashes.	25, otherwise 40%)							
Installation Side of the Inductive Postion Transducer B = Valve side B (standard)	Rated FlowWith 70 bar pressure differential (35 bar/control edge)02 (only version L) = 2 l/min04 = 4 l/min12 (only version L) = 12 l/min							
	15 (only version P) = 15 l/min 24 (only version L) = 24 l/min 25 (only version P) = 25 l/min 40 = 40 l/min							

¹ Standard = 1:1, $q_{V \text{ nom}}$ 2:1 only with rated flow 40 l/min (version 40)

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Technical Data



4WRLE SERIES

GENERAL		SIZE	10	16	25	27	
Type of Connection				Subplate			
Porting pattern				ISO			
Max. Operating pressure	External pilot oil supply; Ports A, B, P		350 bar			270 bar	
	Internal pilot oil supply; Ports A, B, P			280 bar	270 bar		
	Port X			280 bar		270 bar	
	Ports T, Y		250 bar			210 bar	
Minimum pilot pressure (pilot control valve)			10 bar				
Rated flow (Δp = 5 bar/control edge)		l/min	60/100	200/250	350/400	430/600	
Maximum flow			300 I/min	800 I/min	1,250 I/min	1,850 I/min	

4WRPEH SERIES

GENERAL									
Type of con	Subplate mounting								
Porting pat	ISO 4401-03-02-0-05								
Max. Operating pressure	Ports A, B, P	315 bar							
	Port T	250 bar							
Rated flow ($\Delta p = 35$ bar per edge)		2 I/min	4 I/min	12 I/min	15 I/min	24 I/min	40 I/min		
Leakage flow (at 100 bar)	Linear characteristic curve "L"	< 150 cm³/min	< 180 cm³/min	< 300 cm³/min	-	< 500 cm³/min	< 900 cm³/min		
	Inflected character- istic curve "P"	-	< 150 cm³/min	_	< 180 cm³/min	< 300 cm³/min	< 450 cm³/min		



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