

Throttle valve type VRFB

WK 421 360

NS 6 - 15

up to 40 MPa

up to 80 dm³/min

04.2014

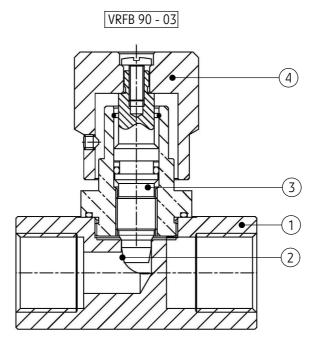
APPLICATION

Throttle valve type **VRFB...** is used for fluid flow choking which depends from the difference of pressure at the choke-point and also from fluid viscosity. It can be applied in hydraulic systems, where a constant working resistance occurs or the change of speed at the varying workload is less important.

The valve is installed in hydraulic systems in any position with connection pipes.



DESCRIPTION OF OPERATION

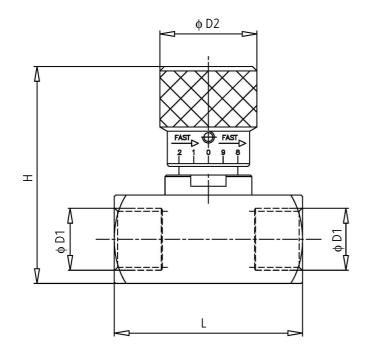


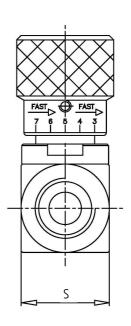
Hydraulic fluid jet flows through the connection port of the body (1) to the choke opening (2) between the body (1) and the adjustable choke (3). With the choke rotation (3) by the calibrated knob (4) one can variably change the circular section of the choke opening (2). Choking is performed for both direction of the fluid flow.

TECHNICAL DATA

Hydraulic fluid	mineral oil					
Required fluid cleanliness class	ISO 4406 class 20/18/15					
Nominal fluid viscosity	37 mm 2 /s at the temperature 55 $^{\circ}$ C					
Viscosity range	$2.8 \text{ up to } 380 \text{ mm}^{2}/\text{s}$					
Fluid temperature range (in a tank)	recommended	40°C up to	40°C up to 55°C			
riold temperatore range (in a tank)	max	-20°C up to	-20°C up to +70°C			
Ambient temperature range	-20°C up to +7	-20°C up to +70°C				
	version					
Maximum operating pressure	VRFB 90 - 01	VRFB 90 - 02	VRFB 90 - 03	VRFB 90 - 04		
	40 MPa	40 MPa	40 MPa	35 MPa		
Maximum flow	15 dm ³ /min	30 dm ³ /min	50 dm ³ /min	80 dm ³ /min		

OVERALL AND CONNECTION DIMENSIONS





Nominal size (NS)	Max. working pressure	Labelling	ØD1	ØD2	L	Н	S	Weight
6	40 MPa	VRFB 90 - 01	G1/4	30	54	68	25	0,29 kg
8	40 MPa	VRFB 90 - 02	G3/8	30	54	68	25	0,27 kg
10	40 MPa	VRFB 90 - 03	G1/2	33	64	72	30	0,45 kg
15	35 MPa	VRFB 90 - 04	G3/4	42	81	94	40	1,02 kg

SCHEMES

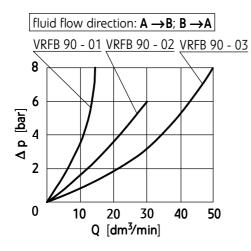
Graphic symbol of the VRFB... valve

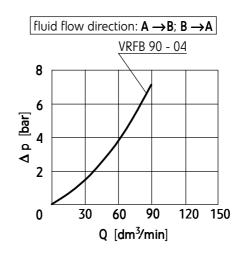


CHARACTERISTICS

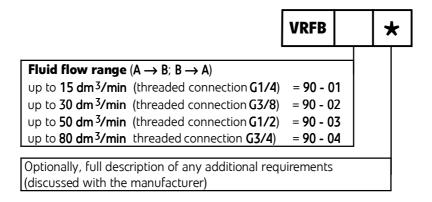
measured at viscosity $v = 41 \text{ mm}^2/\text{s}$ and temperature $t = 50^{\circ}\text{C}$

 $\Delta p(Q)$ values for different nominal sizes of the valve





HOW TO ORDER



NOTICE:

When placing an order, please use the symbols listed above, for example: VRFB 90 - 03

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