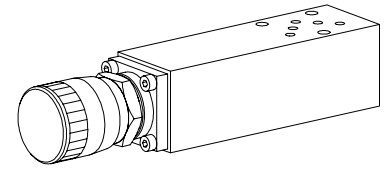


**2-way flow control valve  
 Flange- and sandwich construction**

- $Q_{max}$  = 12,5 l/min
- $Q_{Nmax}$  = 12,5 l/min
- $p_{max}$  = 200 bar

**NG4-Mini<sup>®</sup>**

**DESCRIPTION**

2-way flow control valve in flange and sandwich construction. Fitted with 2-way flow control slip in cartridges. The valve is available in two different setting versions: turning knob and lockable type EWA. In its standard form, this control valve can be supplied with three nominal volume flow ranges. In its standard form this control valve can be supplied with three nominal volume flow ranges. In its sandwich versions in A, B and AB the bypass non-return valve is installed in the plate. The flange valve body is painted, the sandwich plates and the cartridge body are phosphatized. The aluminium turning knob is colorless anodized.

**FUNCTION**

The 2-way flow control valve is designed to keep to oil flow to any actuator constant irrespective of the load. By turning the knob of the variable restrictor the volume flow can be adjusted. If the pressure in the system changes the pressure compensator will change the diameter of the oil passage in order to keep the pressure drop over the restrictor constant.

**APPLICATION**

Sandwich type, flow control valves are used where the supply volume flow has to be kept constant even when the load fluctuates. Depending on the application, a distinction is made between restricting the forward flow or the return flow. These sandwich valves are particularly suitable for machine tools and also all types of handling operations. Mini-4 flow control valves are used where hydraulic systems have to be both light and compact.

**CONTENT**

GENERAL SPECIFICATIONS .....	1
HYDRAULIC SPECIFICATIONS .....	1
CHARACTERISTICS .....	2
SYMBOLS / DIMENSIONS .....	2
PARTS LIST .....	2
ACCESSORIES .....	2

**TYPE CODE**

	B	M R	4/2 -	#
Mounting interface <span style="float: right;">[ ]</span>				
Description for flow control valve				
Flange				
Flow control from	A to B	[ N ]		
Sandwich				
Flow control:	P	no remark	T	[ T ]
Meter-out flow control:	A	[ A ]	B	[ B ]
	A and B	[ AB ]		
Meter-in flow control:	A	[ VA ]	B	[ VB ]
	A and B	[ VAB ]		
Nominal size 4-Mini				
2-way function				
Nominal volume	$Q_N = 2,5$ l/min		[ 2,5 ]	
	$Q_N = 6,3$ l/min		[ 6,3 ]	
	$Q_N = 12,5$ l/min		[ 12,5 ]	
Additional marking for lock adjustment <span style="float: right;">[ EWA ]</span>				
Design-Index (Subject to change)				

**GENERAL SPECIFICATIONS**

Description	2-way flow control valve
Nominal size	NG4-Mini acc. to Wandfluh standard
Construction	Flange- or sandwich
Mounting	3 mounting holes for socket head screws M5 or double ended screws M5
Connections	Threaded connection plates, Multi-flange subplates, Longitudinal stacking system
Ambient temperature	-20...+50°C
Mounting position	any
Fastening torque	$M_D = 5,5$ Nm (quality 8.8)
Weight	depending on the type 1,0...1,2 kg

**HYDRAULIC SPECIFICATIONS**

Fluid	Mineral oil, other fluid on request
Contamination efficiency	ISO 4406:1999, class 18/16/13 (Required filtration grade $\beta_{6...10} \geq 75$ ) refer to data sheet 1.0-50/2
Viscosity range	12 mm <sup>2</sup> /s...320 mm <sup>2</sup> /s
Fluid temperature	-20...+70°C
Peak pressure	$p_{max} = 200$ bar
Pressure required to open the check valve	$p_{\phi} = 2,2$ bar
Nominal volume flow rates	$Q_N = 2,5$ l/min, $Q_N = 6,3$ l/min, $Q_N = 12,5$ l/min
Min. volume flow	$Q_{min} = 0,02$ l/min
Max. volume flow	$Q_{max} = 12,5$ l/min
Control accuracy	$\leq 1\%$

For further hydraulic specifications refer to data sheet 2.5-577

