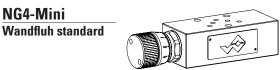


Throttle valve

Sandwich construction

- $Q_{max} = 20 \text{ l/min}$
- $Q_{N \max}^{\text{max}} = 15 \text{ l/min}$ $p_{\max} = 315 \text{ bar}$



DESCRIPTION

The throttle spindle which can be adjusted via a fine thread releases a ring gap, resp., a triangular notch for the volume flow. The adjusted throttle cross section generates a pressure drop which determines the volume flow. When screwed in, the throttle closes practically leakage-free. The oil flow is possible in both directions.

APPLICATION

NG4-Mini

Throttle valves are used where volume flows have to be controlled continuously in both flow directions without taking into account pressure fluctuations. Miniature values are used where both, reduced dimensions and weight are important.

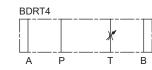
SYMBOL

BDRP4



В







TYPE CODE

Mounting interface acco	ording to Wandflub st	andard		B DR	4	 #
Throttle valve						
Type list / Function	in A in A and B in P	A in B AB P in T	B			
Nominal size 4-Mini						
Standard Precision throttle		- FD				
Sealing material	NBR FKM (Viton)	 				
Design index (subject to	change)					

2.4-730



GENERAL SPECIFICATIONS

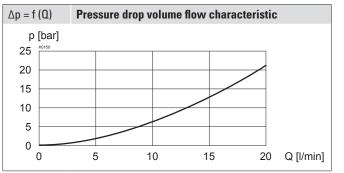
Designation	Throttle valve
Mounting	Sandwich construction
Nominal size	NG4-Mini according to Wandfluh standard
Ambient temperature	-25+70 °C (NBR) -20+70 °C (FKM)
Weight	0,80 kg (Sandwich construction A, B, T) 0,93 kg (Sandwich construction AB) 0,70 kg (Sandwich construction P)
MTTFd	150 years

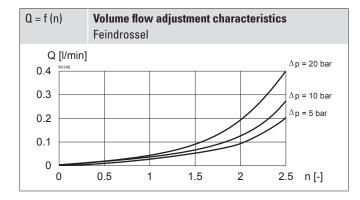
HYDRAULIC SPECIFICATIONS

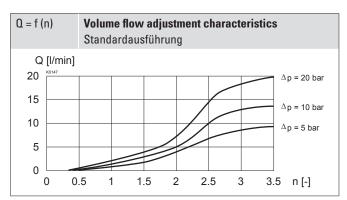
Working pressure	p _{max} = 315 bar
Maximum volume flow	Q _{max} = 20 l/min
Nominal volume flow	Q _№ = 15 l/min bei 10 bar Ventildruckverlust
Leakage oil	With closed throttle practically leakage-free
Fluid	Mineral oil, other fluid on request
Viscosity range	12 mm ² /s320 mm ² /s
Temperature range fluid	-25+70 °C (NBR) -20+70 °C (FKM)
Contamination efficiency	Classe 20 / 18 / 1421 / 19 / 15
Filtration	Required filtration grade ß 10…25 ≥ 75, see data sheet 1.0-50 / 2

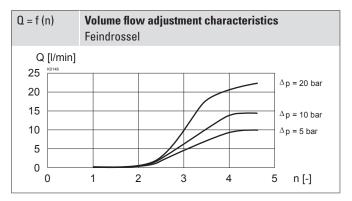
PERFORMANCE SPECIFICATIONS

Oil viscosity $\upsilon = 30 \text{ mm}^2/\text{s}$









SEALING MATERIAL

NBR or FKM (Viton) as standard, choice in the type code

SURFACE TREATMENT

The sandwich bodies are zinc-nickel coated

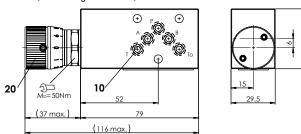
The control knob is made of aluminium, anodised natural



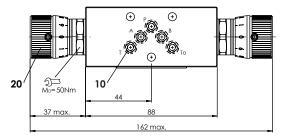
DIMENSIONS



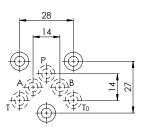
BDRT4 (Throttling on B side)



BDRAB4



HYDRAULIC CONNECTION



ACCESSORIES

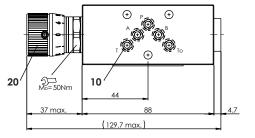
Threaded subplate	Data sheet 2.9-10
Multi-station subplates	Data sheet 2.9-50
Module type manifold blocks	Data sheet 2.9-90
Technical explanations	Data sheet 1.0-100
Filtration	Data sheet 1.0-50

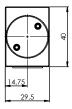
STANDARDS

Mounting interface	Wandfluh standard
Contamination	ISO 4406
efficiency	

BDRA4

BDRB4 (Throttling on B side)





PARTS LIST

Position	Article	Description
	:	O-ring ID 5,28 x 1,78 (NBR) O-ring ID 5,28 x 1,78 (FKM)
20	114.1204	Control knob

INSTALLATION NOTES

Mounting type	Sandwich mounting 3 fixing holes for
	socket head screws or studs M5
Mounting position	Any, preferably horizontal
Tightening torque	Fixing screws M _p = 5,2 Nm (screw quality 8.8, zinc coated)

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