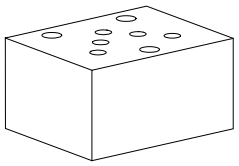
Non-return valve
Sandwich construction
- Q_{max} = 8 l/min
- p_{max} = 350 bar

NG3-Mini®



DESCRIPTION
Sandwich type pilot operated non-return valve NG3-Mini with interface according to Wandfluh standard. The valves allow a free flow in one direction and shut off in the opposite direction. 6 different standard versions are available. The sandwich block is in anodised aluminium for weight saving and corrosion protection.

FUNCTION
In the free flow direction, the volume flow opens the spring loaded valve seat. The spring keeps the valve closed in the opposite direction. The opening pressure required depends on the spring force.

APPLICATION
Non-return valves allow the volume flow in one direction and shuts off in the opposite direction, preventing the pressurised fluid from flowing back. Non-return valves in the P port prevents backward rotation of the pump. When installed in the T port, the spring controlled opening pressure prevents a hydraulic system from draining to the tank. Sandwich type elements NG3-Mini make this a highly flexible system and save both weight and space.

TYPE CODE

RNNS A03 - ☐ # ☐

Non-return valve, sandwich construction

Mounting interface acc. to Wandfluh standard, NG3-Mini

Type list / Function

in P	P	in T	T	in P and T	PT
in A	A	in B	B	in A and B	AB

Design-Index (Subject to change)

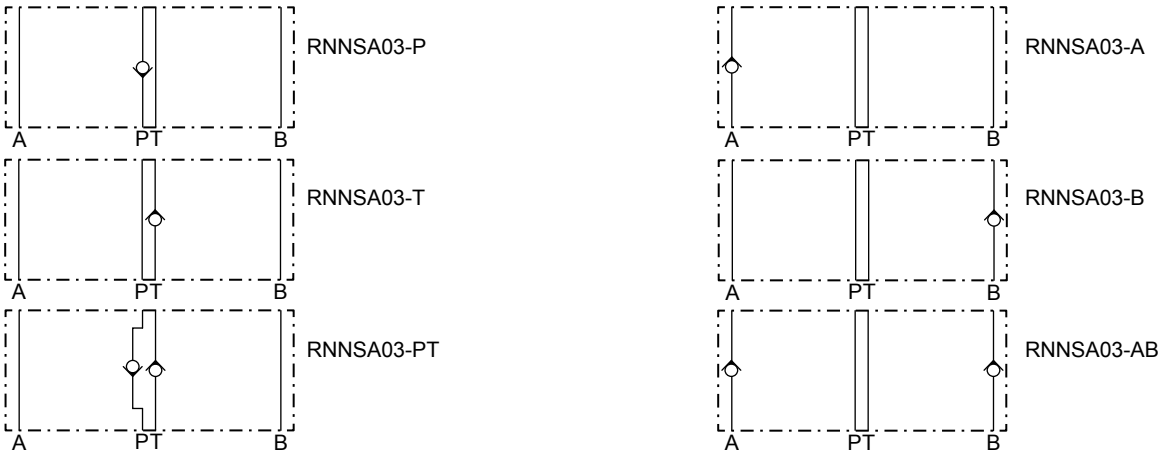
GENERAL SPECIFICATIONS

Description	Non-return valve
Nominal size	NG3-Mini acc. to Wandfluh standard
Construction	Sandwich construction
Mounting	3 holes for hexagon socket screw M4 or studs M4
Connections	Connection plates Multi-station flange subplate Longitudinal stacking system
Ambient temperature	-20…+50 °C
Mounting position	any
Fastening torque	M_D = 2,8 Nm (Quality 8.8)
Weight	m = 0,06 kg

HYDRAULIC SPECIFICATIONS

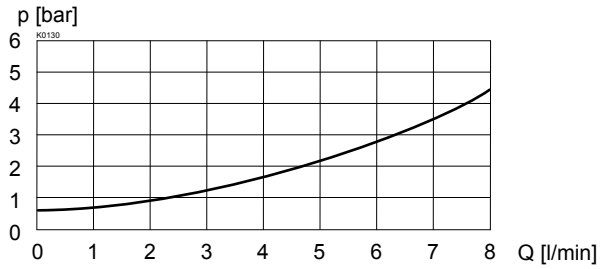
Fluid	Mineral oil, other fluid on request
Contamination efficiency	ISO 4406:1999, class 20/18/14 (Required filtration grade ß 10…16≥75) refer to data sheet 1.0-50/2
Viscosity range	12 mm²/s…320 mm²/s
Fluid temperature	-20…+70 °C
Peak pressure	p_{max} = 350 bar
Opening pressure	$p_{\ddot{o}}$ = 0,4 bar
Max. volume flow	Q_{max} = 8 l/min

SYMBOLS / TYPES

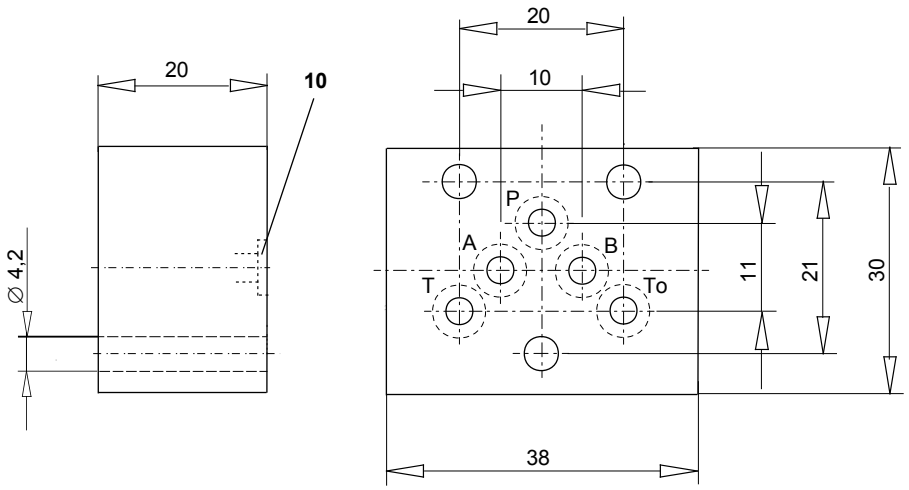


CHARACTERISTICS Oil viscosity υ = 30 mm²/s

Δp = f (Q) Performance limit



DIMENSIONS



PARTS LIST

Position	Article	Description
10	160.2045	O-ring ID 4,50x1,50

Technical explanation see data sheet 1.0-100