

Non-return valve hydraulic pilot Sandwich construction • Q_{max} = 20 l/min

• p_{max} = 350 bar

DESCRIPTION

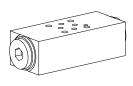
Sandwich type non-return valve NG3-Mini with hydraulic pilot. The valves allow a free flow in one direction and shut off in the opposite direction. 3 different standard versions are available. The steel sandwich body is phosphatised. Good performance data and attractive design are the hall marks of this quality product.

FUNCTION

In the free flow direction, the volume flow opens the valve seat against a spring. The spring helps the valve close in the opposite direction. If pressure builds up in the opposite oil port, this displaces the pilot piston and opens the non-return valve of the closed port. The pilot pressure required is dependet on the pressure held by the valve seat.

NG4

ISO 4401-02



APPLICATION

Pilot operated non-return valves are used to shut off pressurised hydraulic cylinders, e.g. in lifting or clamping fixtures, without leaking. The hydraulic cylinder can olny be moved in the shut off direction if a directional valve directs the volume flow into the opposite port and releases the valve. Reliability in operation is increased ba a directional valve which connects both oil ports to the tank in the neutral position. Sandwich type elements NG4-Mini mean that the system is highly flexible and save both space and weight.

TYPE CODE

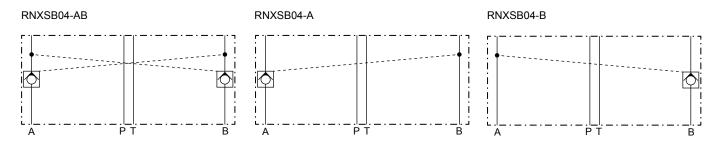
					RNXS	B04 -	#
Non-return valve hydraulically pilot operated, Sandwich construction							
International standard in	nterface IS	O, NG4	1				
Type list / Function							
in A and B AB	in A	A	in B	В			
Design-Index (Subject	to change))					

HYDRALILIC SPECIFICATIONS

GENERAL SPECIFICATIONS

SENERAL SPECIFICATIONS					
Description	Non-return valve hydraulic pilot	Fluid	Mineral oil, other fluid on request		
Nominal size	NG4 acc. to ISO 4401-02	Contamination efficiency	ISO 4406:1999, class 20/18/14		
Construction	Sandwich construction	-	(Required filtration grade ß 1016≥75)		
Mounting	4 holes for socket cap screws M5		refer to data sheet 1.0-50/2		
-	or studs M5	Viscosity range	12 mm²/s…320 mm²/s		
Connections	Connection plates	Fluid temperature	-20+70°C		
	Mulit-station flange subplate	Peak pressure	p _{max} = 350 bar		
	Longitudinal stacking system	Opening pressure	$p_{a} = 2 \text{ bar}$		
Ambient temperature	-20+50°C	Pilot ratio	i = 1:8		
Mounting position	any	Max. volume flow	Q _{max} = 20 l/min		
Fastening torque	$M_{p} = 5,5 \text{ Nm}$ (Quality 8,8)		THEX.		
Weight	m = 0,85 kg				

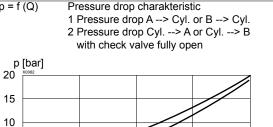
SYMBOLS/TYPES

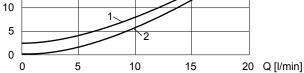


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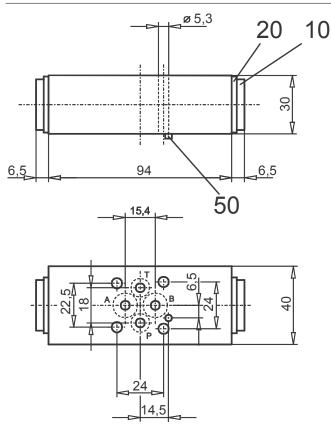


$\label{eq:characteristics} \begin{array}{l} \mbox{CHARACTERISTICS} & \mbox{Oil viscosity } \upsilon = 30 \mbox{ mm}^2 \mbox{/s} \\ \mbox{$\Delta p = f(Q)$} & \mbox{Pressure drop charakteristic} \end{array}$





DIMENSIONS



PARTS LIST

Position	Article	Description
10	239.2003	Plug G1/2"
20	049.2212	Bounded seal 21,5x28,7x2,5
30	160.2060	O-Ring ID 6,07x1,78
40	160.2093	O-Ring ID 9,25x1,78
50	221.2253	Spring tension pins \varnothing 3x6

Technical explanation see data sheet 1.0-100