

Pressure reducing valve Flange- and sandwich construction

• **Q**_{max} = 20 l/min

• p_{max} = 315 bar

• p_{N red max} = 200 bar

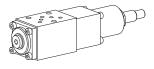
DESCRIPTION

Flange or sandwich type directly operated 3-way pressure reducing valve NG4-Mini in accordance with Wandfluh standard. The valve reduces the inlet pressure to a preset output pressure. The integrated pressure relief function prevents the reduced pressure from being exceeded as a result of external forces. Two types of setting and four pressure stages are available. A pressure gauge connection is provided in the reduced connection. A bypass non-return valve plate for the flange valve - for free flow from A to P - can be ordered separately. The flange valve body is painted, the other parts are zinc-nickel coated.



The spool is held in the home position by the spring. The connection to the consumer is fully open. The reduced pressure can be adjusted at the adjustment spindle, irrespective of the inlet pressure. If the reduced pressure increases, it displaces the valve towards the spring. The volume flow at the valve inlet is then throttled, controlling the reduced pressure. If forces acting on the consumer allow the reduced pressure to be increased above the set value, the spool is displaced until the valve inlet closes and the tank port opens. The pressure increase is then limited to a low value, controlled by the spring.

NG4-Mini



APPLICATION

Pressure reducing valves are used for keeping the pressure constant in a consumer, irrespective of pressure fluctuations on the supply side. If several consumers are used, the reduced pressure can be set individually with the aid if one pressure control valve for each consumer. Generally speaking, pressure control valves are used for reducing a hydraulic pressure to a lower level. The integrated pressure relief function obviates the need for any additional pressure relief valve in the reduced pipe. Directly operated pressure reducing valves also keep the reduced pressure stable, even under very difficult operating conditions. Mini-4 valves are used where both, reduced dimensions and weight are important.

TYPE CODE

				В	DRV	d [4 [/	#	
Mounting interface acc. to Wandfluh standard,											
Pressure reducing val	/e										
Direct operated											
Type list / function											
Flange design		Ν									
Sandwich design, P _{red}	in P										
Sandwich design, P _{rod}	in A	А									
Sandwich design, P	in B	В									
Interface NG4-Mini											
Type of adjustment	Key										
	Control knob	D									
	Cover	Н									
Pressure range p _{N red}	40 ba	ar	40								
	80 ba	ar	80								
	160 ba	ar	160								
	200 ba	ar	200								

HYDRALLI IC SPECIEICATIONS

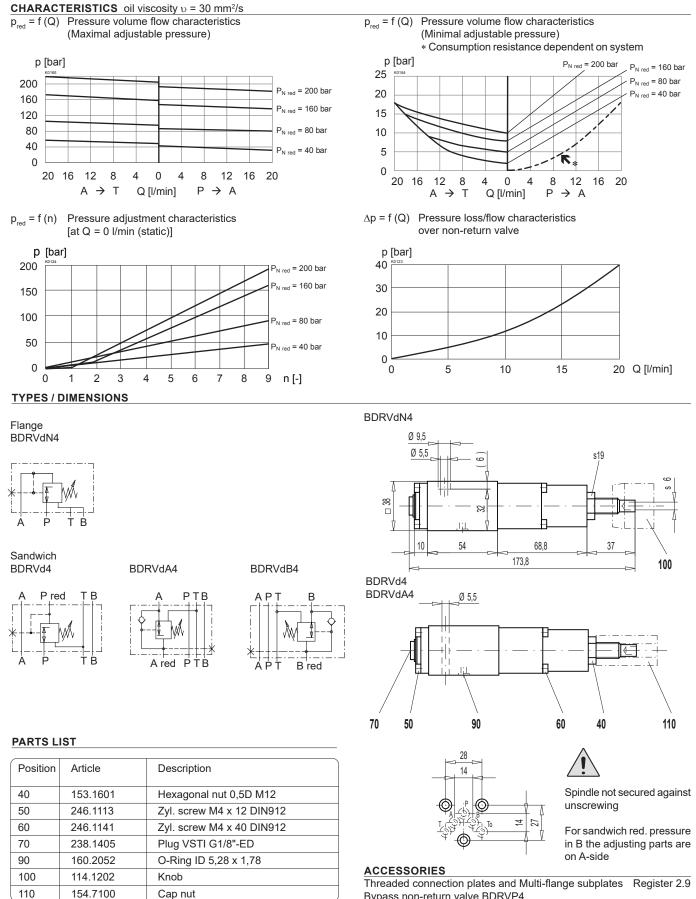
Design-Index (Subject to change))

GENERAL SPECIFICATIONS

GENERAL SPECIFIC	JAHUNS	HIDRAULIC SPECIFICATIONS					
Description	Direct operated pressure control valve	Fluid	Mineral oil, other fluid on request				
Nominal size	NG4-Mini acc. to Wandfluh standard	Contamination efficiency	ISO 4406:1999, class 18/16/13				
Construction	Flange- or sandwich		(Required filtration grade ß 6…10≥75)				
Mounting	3 mounting holes for zyl. screws M5 or		refer to data sheet 1.0-50/2				
-	double ended screws M5	Viscosity range	12 mm²/s…320 mm²/s				
Connection	Threaded connection plates	Fluid temperature	-20+70 °C				
	Multi-flange subplates	Peak pressure	p _{max} = 315 bar				
	Longitudinal stacking system	Tank load in connection T	p _{T max} = 50 bar				
Ambient temperature	-20+50 °C	Nominal pressure ranges	p _{N red} = 40 bar, p _{N red} = 160 bar				
Mounting position	any		$p_{N red} = 80 bar, p_{N red} = 200 bar$				
Fastening torque	M _D = 5,5 Nm (quality 8.8)	Opening pressure	p _ö = 2,2 bar				
Weight	m = 1,0 kg	to non-return valve					
		Volume flow	Q = 020 l/min				

Tel +41 33 672 72 72 Fax +41 33 672 72 12 E-mail: sales@wandfluh.com Internet: www.wandfluh.com





Bypass non-return valve BDRVP4

Technical explanation see data sheet 1.0-100

Wandfluh AG Postfach CH-3714 Frutigen

sales@wandfluh.com E-mail: Internet: www.wandfluh.com

Illustrations not obligatory Data subject to change