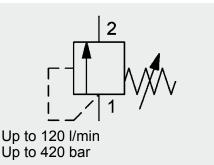
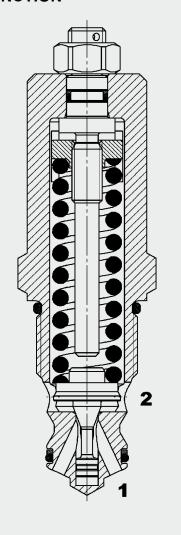
DAGINTERNATIONAL



Pressure Relief Valve Poppet Type, Direct-Acting Metric Cartridge – 420 bar DB12120A

FUNCTION



FEATURES

- Excellent stability throughout the entire flow range
- External surfaces zinc-plated and corrosion-proof
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- Low pressure drop by CFD optimized flow path
- Various pressure ranges up to 420 bar

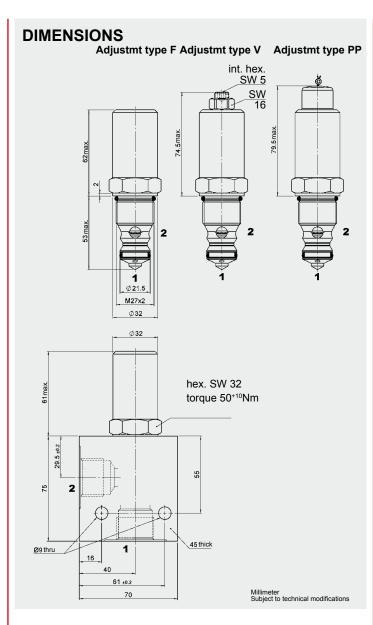
SPECIFICATIONS

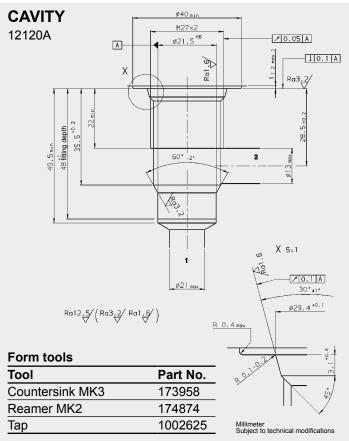
<u> </u>				
Operating pressure:	max. 420 bar			
	max. 100 bar at port 2 (tank)			
Nominal flow:	max. 120 l/min			
Pressure setting ranges:	5 to 30 bar			
	30 to 55 bar			
	55 to 90 ba	nr		
	10 to 150 bar			
	10 to 250 b			
	10 to 350 b			
	10 to 420 b	par		
Media operating temperature range:	min20 °C to max. +120 °C			
Ambient temperature range:	min20 °C	min20 °C to max. +120 °C		
Operating fluid:	Hydraulic c	Hydraulic oil to DIN 51524 Part 1 and 2		
Viscosity range:	min. 7.4 mı	min. 7.4 mm²/s to max. 420 mm²/s		
Filtration:	Class 21/19/16 according to ISO 4406 or cleaner			
MTTF _d :	150 years (see "Conditions and instructions for valves" in brochure 5.300)			
Installation:	No orientation restrictions			
Materials:	Piston:	hardened and		
		ground steel		
	Seals:	FKM (standard)		
		NBR (optional, media		
		temperature range		
		-30 °C to +100 °C)		
	Back-up rir	ngs: PTFE		
Cavity:	12120A			
Weight:	0.42 kg			
Weight:	0.42 kg			

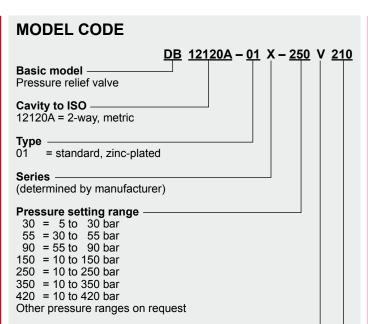
The pressure relief valve DB12120A is a direct-acting, spring-loaded poppet valve. Its function is to relieve pressure in the system. It is normally closed. If the pressure at port 1 exceeds the pre-set spring tension, the poppet is lifted off the seat and oil flows from port 1 to port 2.

This continues until the system pressure is equal to the spring tension and the valve closes again.

Important: Pressures at port 2 are additive to the opening pressure! If the connections are incorrect or if the pressure has been set above the operating pressure, the safety function of the valve is disabled.







Type of adjustment

= Allen head

= can be lead-sealed, adjustable with tool (with plug) Other types of adjustment on request

Opening pressure setting

No details = no setting, spring relaxed
210 = opening pressure in bar, factory-set Other pressure settings on request

Standard models

Model code	Part No.
DB12120A-01X-030V	555785
DB12120A-01X-055V	3117096
DB12120A-01X-090V	3494786
DB12120A-01X-150V	552805
DB12120A-01X-250V	552806
DB12120A-01X-350V	552807
DB12120A-01X-420V	552836

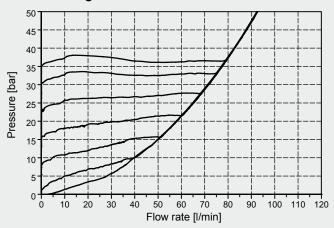
Standard in-line bodies

Code	Part No.	Material	Ports	Pressure
R12120A-01X-01	396489	Steel, zinc-plated	G 3/4	420 bar
Other line bodies o	n request			

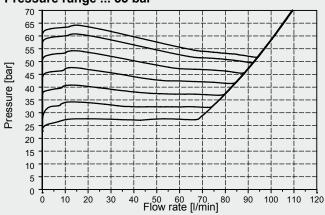
Seal kits

Code	Material	Part No.
SEAL KIT DB12120A-01XV	FKM	557399

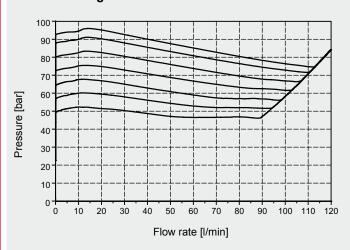
Pressure range ... 30 bar



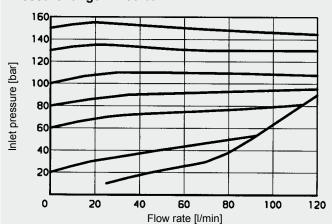
Pressure range ... 55 bar



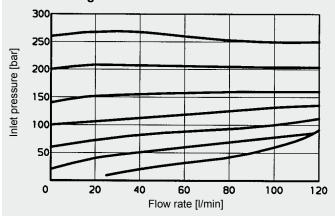
Pressure range ... 90 bar



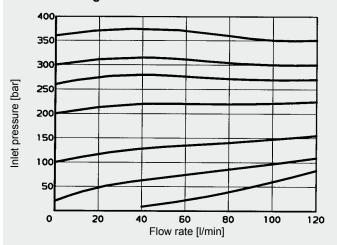
Pressure range ... 150 bar



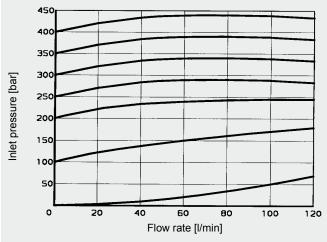
Pressure range ... 250 bar



Pressure range ... 350 bar



Pressure range ... 420 bar



NOTE

The information in this brochure relates to the operating conditions and applications described.

For applications or operating conditions not described, please contact the relevant technical department.

Subject to technical modifications.

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