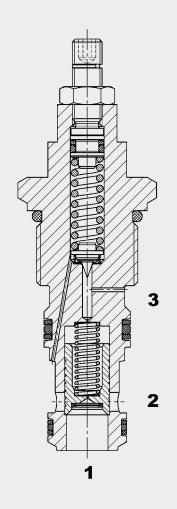
DAG INTERNATIONAL

Up to 200 I/min Up to 350 bar

Pressure Relief Valve Spool Type, Pilot-Operated With Remote Control Option Metric Cartridge - 350 bar

DB12121PF-01

FUNCTION



FEATURES

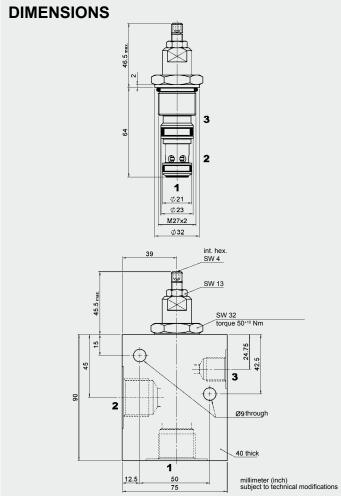
- External surfaces zinc-plated and corrosion-proof
- Hardened and ground control spool to ensure minimal wear and extended service
- Various pressure ranges up to 350 bar
- Quick response
- Increased operating reliability due to protective strainer
- Low hysteresis and excellent stability throughout the flow range
- Compact design enables space-saving installation in connection housings and control blocks
- Valve can be operated via its remote control line in combination with a directional

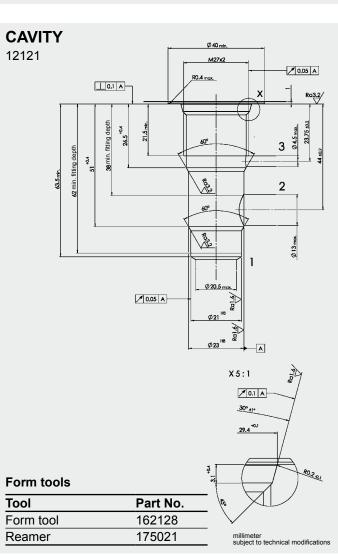
SPECIFICATIONS

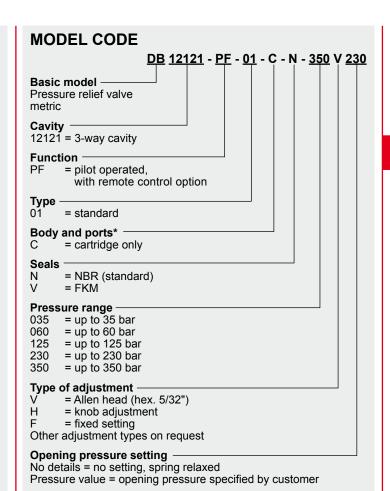
Operating pressure:	max. 350 bar		
Nominal flow:	max. 200 l/min		
Operating pressure ranges:	up to 35 bar		
	up to 60 bar		
	up to 125 bar		
	up to 230 bar up to 345 bar		
Required remote control flow rate:	0.2 l/min to 0.6 l/		
Required remote control flow rate.	(depending on pressure and flow rate)		
Internal leakage:	320 cm³/min at 350 bar		
Media operating temperature range:	min30 °C to max. +120 °C		
Ambient temperature range:	min20 °C to +80 °C		
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2		
Viscosity range:	min. 10 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		
Material	Valve body:	high tensile steel	
	Spool:	hardened and	
		ground steel	
	Seals:	NBR (standard)	
		FKM (optional, media	
		temperature range	
		-20 °C to +120 °C)	
	Back-up rings:	PTFE	
	Coil:	steel / polyamide	
Cavity:	12121		
Weight:	0.26 kg		

The pressure relief valve DB12121PF is a pilot operated, spool valve with a remote control option via the additional port 3.

If the pressure across port 1 exceeds the pre-set value, the pilot-stage opens and oil flows from behind the main spool to the tank port 2. The resulting pressure differential allows the main spool to lift against the reset-spring and allows oil to flow from port 1 to port 2. Additionally the valve may switch the system to unpressurized flow by draining a flow over port 3.







Standard models

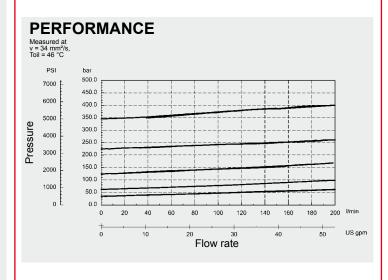
Model code	MatNr.
DB12121PF-01-C-N-060V	3126912
DB12121PF-01-C-N-230V	3126914
DB12121PF-01-C-N-350V	3126915

*Standard in-line bodies

Code	Part No.	Material	Ports	Pressure
R12121-01X-01	3130704	Steel, zinc-plated	G3/4, G3/8	420 bar

Seal kits

Code	Material	Part No.
SEAL KIT 12121-NBR	NBR	3269389
SEAL KIT 12121-FKM	FKM	3269390



NOTEThe 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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