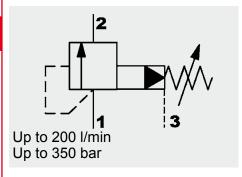
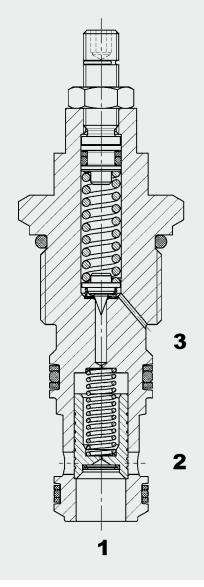
# YDAC INTERNATIONAL



## **Pressure Relief Valve** Spool Type, Pilot-Operated With Pilot Drain Metric Cartridge - 350 bar

DB12121PE-01

## **FUNCTION**



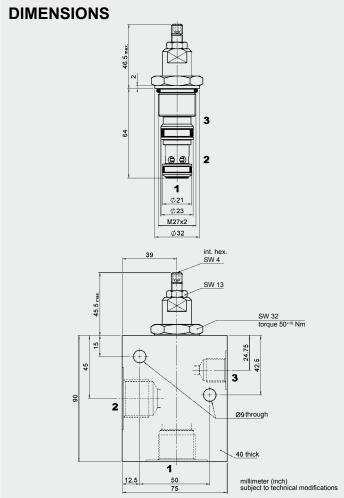
The DB12121PE is a pilot-operated, spring-loaded spool valve with a pilot drain at port 3. This means that any pressure at port 2 has no influence on pressure adjustment. If the pressure at port 1 exceeds the pre-set spring tension, the pilot-stage opens and oil flows from behind the main spool to tank port 3. The resulting pressure differential causes the main spool to move against the reset-spring and allows oil to flow from port 1 to port 2.

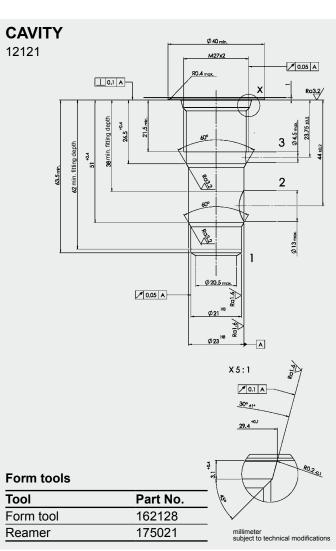
## **FEATURES**

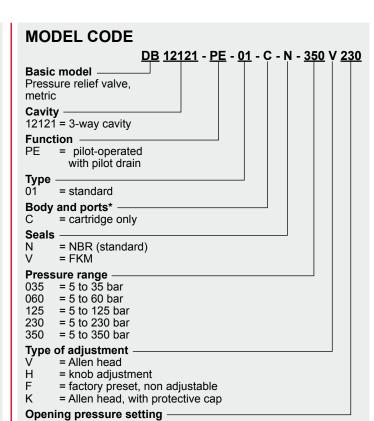
- External surfaces zinc-plated and corrosion-proof
- Hardened and ground control spool to ensure minimal wear and extended service
- Various pressure ranges up to 350 bar
- Quick response
- Increased operating reliability due to protective strainer
- Low hysteresis and excellent stability throughout the flow range
- Compact design enables space-saving installation in connection housings and control blocks
- Additional tank connection to drain the pilot stage

### **SPECIFICATIONS**

Operating pressure:	max. 350 bar		
Nominal flow:	max. 200 l/min		
Operating pressure ranges:	5 to 35 bar 5 to 60 bar 5 to 125 bar 5 to 230 bar 5 to 350 bar		
Internal leakage:	max. 320 cm³/min at 350 bar		
Media operating temperature range:	min30 °C to max. +100 °C		
Ambient temperature range:	min30 °C to max. +100 °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 <sub>d</sub> :	150 years (see "Conditions and instructions for valves" in brochure 5.300)		
Installation:	No orientation restrictions		
Materials:	Valve body:	free-cutting steel	
	Spool:	hardened and ground steel	
	Seals:	NBR (standard) FKM (optional, media temperature range -20 °C to +120 °C)	
	Back-up rings:	PTFE	
Cavity:	12121		
Weight:	0.26 kg		







#### Standard models

No details = no setting, spring relaxed

Model code	Part No.
DB12121PE-01-C-N-035V	3132639
DB12121PE-01-C-N-060V	3132640
DB12121PE-01-C-N-125V	3132641
DB12121PE-01-C-N-230V	3132642
DB12121PE-01-C-N-350V	3132643

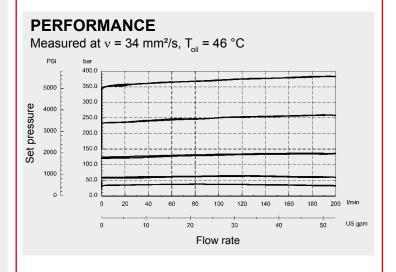
Pressure value = opening pressure specified by customer (on request)

#### \*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



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.

**HYDAC Fluidtechnik GmbH** Justus-von-Liebig-Str. D-66280 Sulzbach/Saar Tel: 0 68 97 /509-01 Fax: 0 68 97 /509-598 E-Mail: flutec@hydac.com