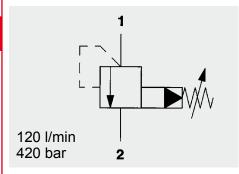
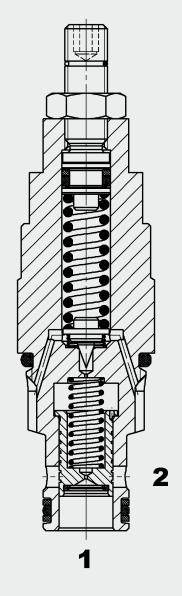


YDAC INTERNATIONAL



Pressure Relief Valve Spool Type Pilot-Operated SAE-10 Cartridge - 420 bar DB10P

FUNCTION



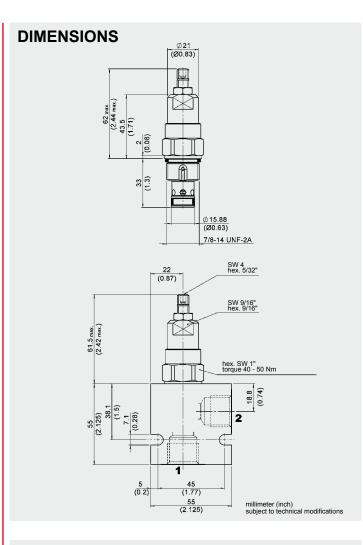
The DB10P is a pilot-operated, spool type pressure relief valve. If pressure at port 1 exceeds the pressure setting, the pilot poppet opens and oil flows from behind the main spool to tank port 2. The rest causes the return spread to port 2. 2. The resulting pressure differential causes the main spool to lift against the return spring and allows flow from port 1

FEATURES

- External surfaces zinc-plated and corrosion-proof
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- Screen protected metering orifice enhances safety
- Adjustable throughout flow range
- Guided pilot poppet
- Optional spring ranges up to 420 bar
- Quick response

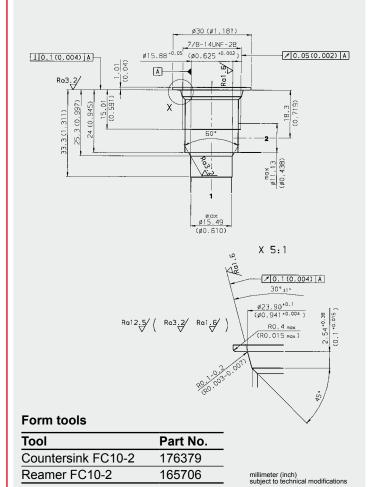
SPECIFICATIONS

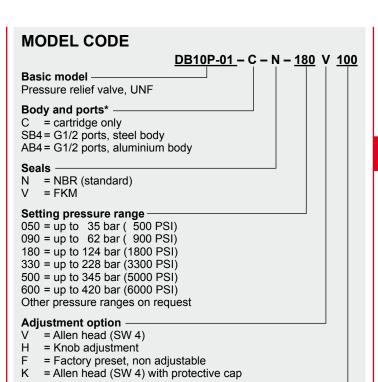
Operating pressure:	max. 420 bar	max. 420 bar	
Nominal flow:	max. 120 l/min		
Operating pressure ranges:	5 to 35 bar		
	5 to 62 bar		
	5 to 124 bar		
	5 to 228 bar		
	5 to 345 bar		
	5 to 420 bar		
Internal leakage:	< 500 ml/min		
	from 1 to 2 at 80% of p _{nom}		
Media operating temperature range:	min30 °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. 7.4 mm²/s to max. 420 mm²/s		
Filtration:	Class 21/19/16 to ISO 4406 or cleaner		
MTTf _d :	150 years (see "Conditions and		
		valves" in brochure 5.300)	
Installation:	No orientation re	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:	FC10-2		
Weight:	0.20 kg		



CAVITY

FC10-2





Standard models

Opening pressure setting -No details = no setting

Model code	Part No.
DB10P-01-C-N-050V	3010838
DB10P-01-C-N-090V	3010839
DB10P-01-C-N-180V	3010843
DB10P-01-C-N-330V	3010842
DB10P-01-C-N-500V	3010840

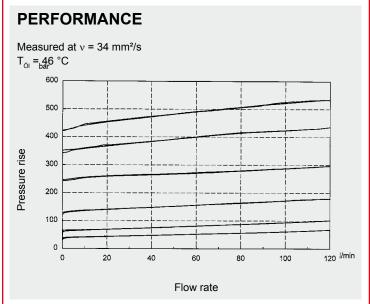
100 = customer-specific opening pressure on request

*Standard in-line bodies

Code	Part No.	Material	Ports	Pressure
FH102-SB4	3037594	Steel, zinc-plated	G1/2	420 bar
FH102-AB4	3037777	Aluminium, anodized	G1/2	210 bar

Seal kits

Code	Material	Part No.
FS102-N SEAL KIT	NBR	3033872
FS102-V SEAL KIT	FKM	3051757



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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