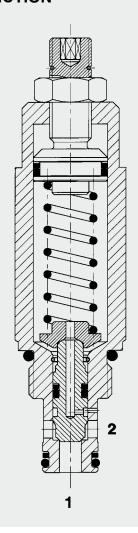
# DAG INTERNATIONAL

## **Pressure Relief Valve** Poppet Type, Direct-Acting SAE-8 Cartridge – 420 bar **DB08A-01**

### **FUNCTION**



2

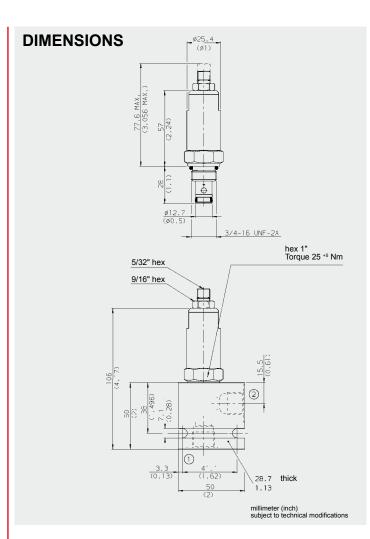
The pressure relief valve DB08A is a direct-acting, spring-loaded poppet valve. Its function is to relieve pressure in the system. The spring exerts a force on the poppet and presses it on the valve seat. On the opposite side, the system pressure exerts force on port 1 of the valve. Only if the hydraulic force exceeds the pre-set spring tension does the valve open and flow is diverted to tank via 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!

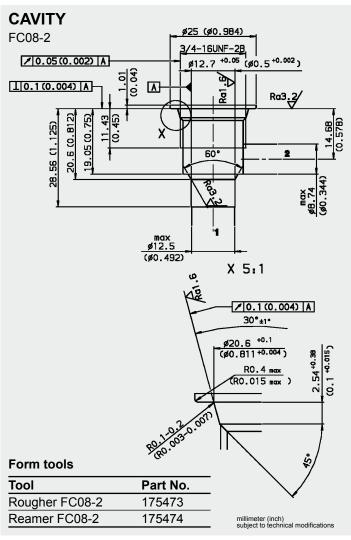
#### **FEATURES**

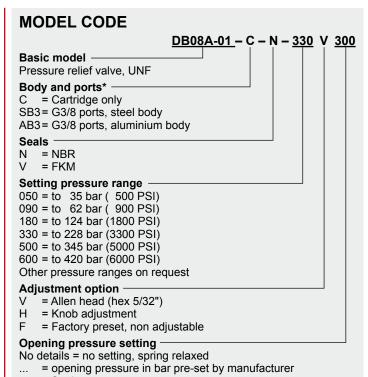
- External surfaces zinc-plated and corrosion-proof
- Max. stroke limiter
- Adjustable throughout flow range
- Optional spring ranges up to 420 bar
- Quick response
- Compact design
- Hardened and ground internal valve components to ensure minimal wear and extended service life

#### **SPECIFICATIONS**

Operating pressure:	max. 420 bar		
Nominal flow:	max. 38 l/min		
Operating pressure ranges:	up to 35 bar up to 62 bar		
	up to 124 bar		
	up to 228 bar		
	up to 345 bar		
	up to 420 bar		
Leakage:	leak-free		
	(max. 5 drops = 0,25 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. 7.4 mm²/s to max. 420 mm²/s		
Filtration:	Class 21/19/16 to ISO 4406		
	or cleaner		
Installation:	No orientation restrictions		
Materials:	Valve body: free-cutting steel		
	Poppet: hardened and ground steel		
	Seals: NBR (standard) FKM (optional, media temperature range -20 °C to +120 °C)		
	Back-up rings: PTFE		
Cavity:	FC08-2		
Weight:	0.22 kg		







## Standard models

Setting on request

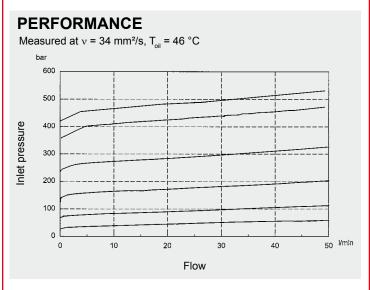
Model code	Part No.	
DB08A-01-C-V-50V	560416	
DB08A-01-C-V-90V	560417	
DB08A-01-C-V-1800V	560418	
DB08A-01-C-V-330V	560419	
DB08A-01-C-V-500V	560420	
DB08A-01-C-V-600V	560421	

#### \*Standard in-line bodies

Code	Part No.	Material	Ports	Pressure
FH082-SB3	560919	Steel, zinc-plated	G3/8	420 bar
FH082-AB3	3011423	Aluminium, clear anodized	G3/8	210 bar

#### Seal kits

Code	Material	Part No.
FS082-N Seal Kit	NBR	3033920
FS082-V Seal Kit	FKM	3051756



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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