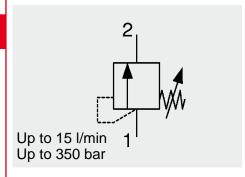
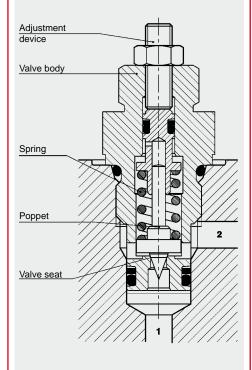
TAC INTERNATIONAL



Pressure Relief Valve Poppet Type, Direct-Acting Metric Cartridge – 350 bar DB3F

FUNCTION



FEATURES

- Low hysteresis and accurate pressure control
- External surfaces zinc-plated and corrosion-proof
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- Adjustable throughout flow range
- Various pressure ranges up to 350 bar
- Guided poppet

SPECIFICATIONS

Operating pressure:

Operating pressure:	max. 350 bar		
	max. 100 bar at port 2 (tank)		
Nominal flow:	15 l/min		
Operating pressure ranges:	5 to 50 bar		
	10 to 100 bar		
	10 to 250 bar		
	20 to 350 bar		
Leakage:	leakage-free	leakage-free	
Media operating temperature range:	min20 °C to max. +120 °C		
Ambient temperature range:	min20 °C to max. +120 °C		
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2		
Viscosity range:	min. 7.4 mm ² /s to max. 420 mm ² /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	No orientation restrictions	
Materials:	Valve body:	high tensile steel	
	Piston:	Hardened and ground steel	
	Seals:	0.00.	
	Seals.	FKM (standard) NBR (optional, media	
		temperature range	
		-30 °C to +100 °C)	
	Back-up rings:	•	
Cavity:	05220		
Weight:	0.053 kg		

max 350 har

The pressure relief valve DB3E is a directacting, 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. If the hydraulic pressure is below the pre-set spring tension, the valve is closed. Only if the hydraulic force exceeds the pre-set spring tension does the valve open and flow is diverted to tank via port 2.

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.

MODEL CODE

DB3E - 02 X - 350 V 250 Basic model Pressure relief valve, metric = standard Series (determined by manufacturer)

Pressure setting range 30 = up to 30 bar

100 = up to 100 bar

250 = up to 250 bar 350 = up to 350 bar

Other pressure ranges on request

Type of adjustment

= Allen head (standard)

= fixed setting, cannot be adjusted = can be lead-sealed, adjustable with tool

Other types of adjustment on request

Opening pressure setting

No details.= no setting, spring relaxed
250 = opening pressure in bar pre-set by manufacturer
Setting on request

Standard models

Model code	Part No.
DB3E-02X-50V	716125
DB3E-02X-100V	716147
DB3E-02X-250V	716146
DB3E-02X-350V	397405

Other models on request

Standard in-line bodies

Code	Part No.	Material	Ports	Pressure
R05220-01X-01	277372	Steel, zinc-plated	G3/8	420 bar

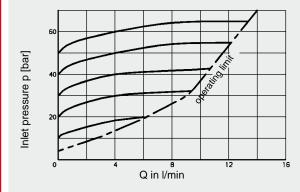
Other line bodies on request

Seal kits

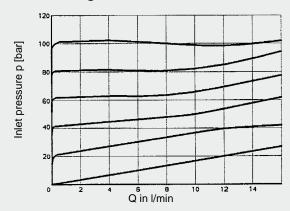
Code	Part No.
SEAL KIT DB3EFKM	715797

PERFORMANCE

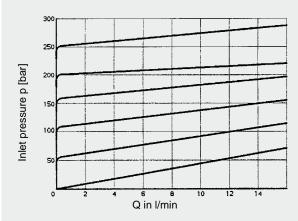
Pressure range ... 50 bar



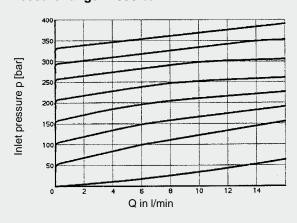
Pressure range ... 100 bar

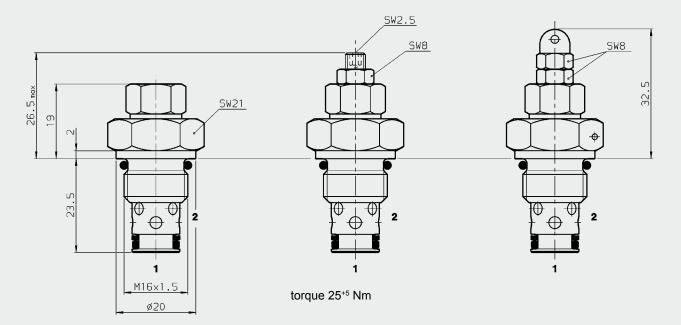


Pressure range ... 250 bar

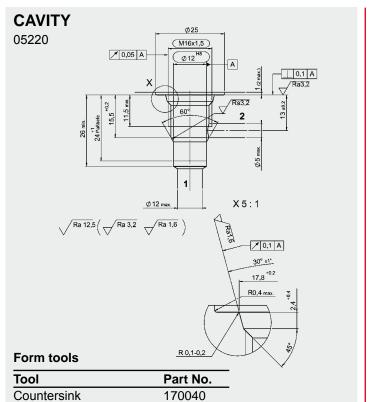


Pressure range ... 350 bar





Millimeter Subject to technical modifications



1014203

1002605

172827

Millimeter Subject to technical modifications

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.

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

HYDACFluidtechnik GmbH

Reamer

Plug gauge

Tap