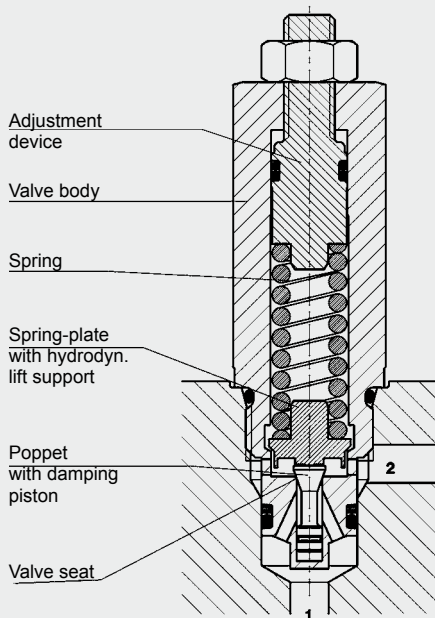


Pressure Relief Valve Poppet Type, Direct-Acting Metric Cartridge – 360 bar DB4E-CE + TÜV Type Approved

FUNCTION



The pressure relief valve DB4E-CE is a direct-acting, spring-loaded poppet valve with CE mark and TÜV SV approval. The spring exerts a force on the poppet and presses it on the valve seat. 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. This continues until the system pressure is equal to the spring tension and the valve closes again.

Caution: The valve DB4E-CE is classified as a safety valve according to PED and AD 2000. Always follow the operating instructions supplied with the valve! The key points are stated below:

- Tank pressure (port 2) must be $p_{2, \max} = 0$ bar!
- If the connections are incorrect, the safety function of the valve is disabled!
- The pressure setting must not be altered!
- The valve must not be tampered with!

FEATURES

- CE valve according to Pressure Equipment Directive (PED) 97/23/EC
- Excellent stability throughout flow range
- 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
- Low pressure drop by CFD optimized flow path
- Various pressure ranges up to 360 bar
- TÜV type approved

SPECIFICATIONS

Operating pressure:	max. 360 bar max. 0 bar at port 2 (tank)
Nominal flow:	28 l/min
Control accuracy:	+/- 10%
Operating pressure ranges:	2 to 150 bar 30 to 250 bar 39 to 360 bar
Leakage:	leakage-free (max. 5 drops $\hat{=}$ 0,25 cm ³ /min at 350 bar)
Media operating temperature range:	min. -20 °C to max. +80 °C
Ambient temperature range:	min. -20 °C to max. +80 °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
Installation:	No orientation restrictions
Materials:	Valve body: high tensile steel Piston: hardened and ground steel Seals: FKM (standard) Back-up rings: PTFE
Cavity:	06020
Weight:	0.14 kg

MODEL CODE

DB4E – 013 – CE1637.ENISO4126.4L. 11. 280

Basic model

Pressure relief valve
with CE mark

Series

(determined by manufacturer)

Type approval code

CE to ENISO 4126.4L

Max. permitted flow rate

11 = 11 l/min

Rate depends on the pressure range
(see performance curves)

Opening pressure setting

280 = 280 bar, opening pressure in bar, factory-set
(See Application Range chart)

Standard models

Model code	Part No.
DB4E-013-CE1637.ENISO4126.4L.13.100	3108508
DB4E-013-CE1637.ENISO4126.4L.15.140	3108511
DB4E-013-CE1637.ENISO4126.4L.18.160	3108513
DB4E-013-CE1637.ENISO4126.4L.24.200	3108517
DB4E-013-CE1637.ENISO4126.4L.20.250	3108519
DB4E-013-CE1637.ENISO4126.4L.16.350	3108568

Standard in-line bodies

Code	Part No.	Material	Ports	Pressure
R06020-01X-01	275266	Steel, zinc-plated	G3/8	420 bar

Other line bodies on request

Seal kits

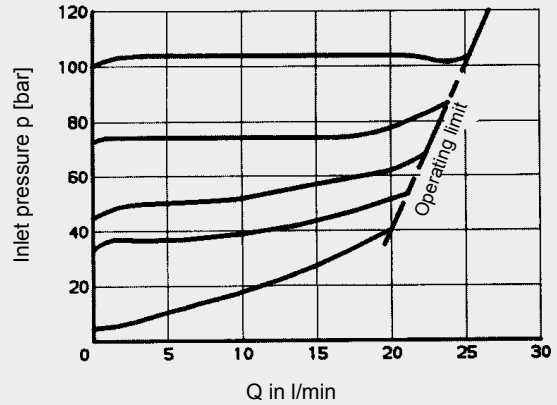
Code	Part No.
SEAL KIT 06020-FKM	3262477

DOCUMENTATION

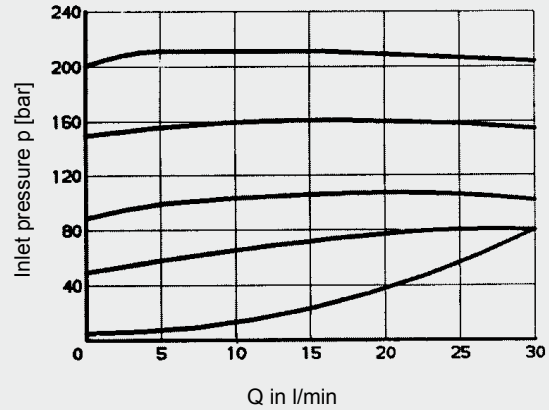
Each valve is supplied with an Operating Manual in accordance with the Pressure Equipment Directive.

PERFORMANCE

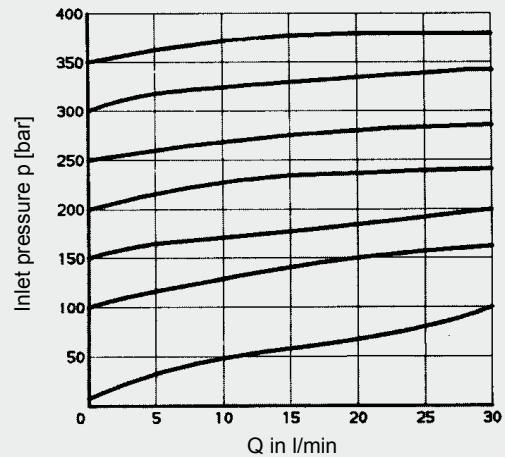
Pressure range ... 100 bar



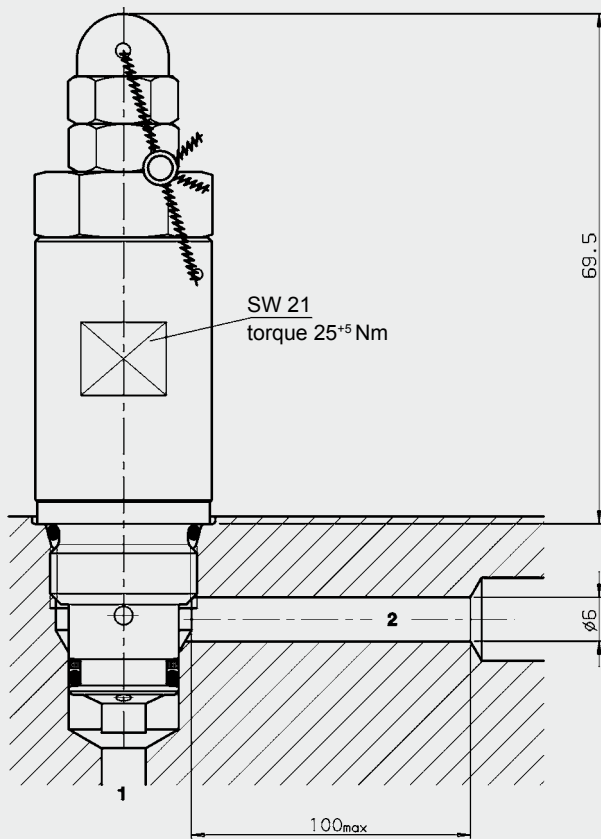
Pressure range ... 200 bar



Pressure range ... 360 bar

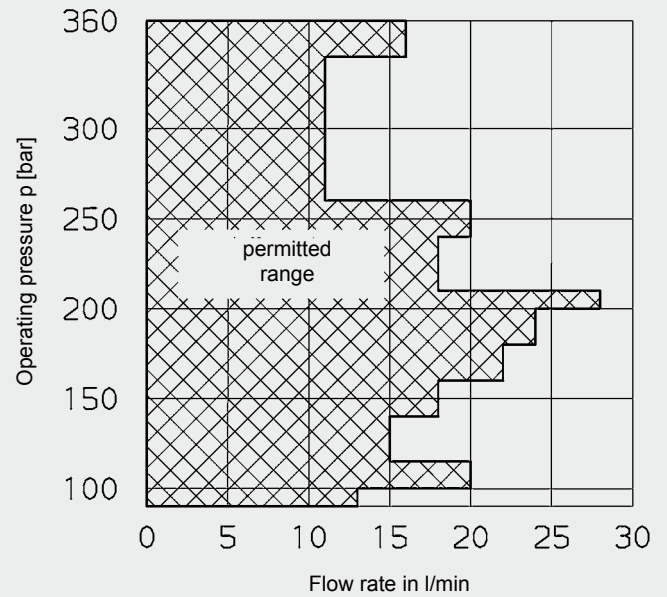


DIMENSIONS



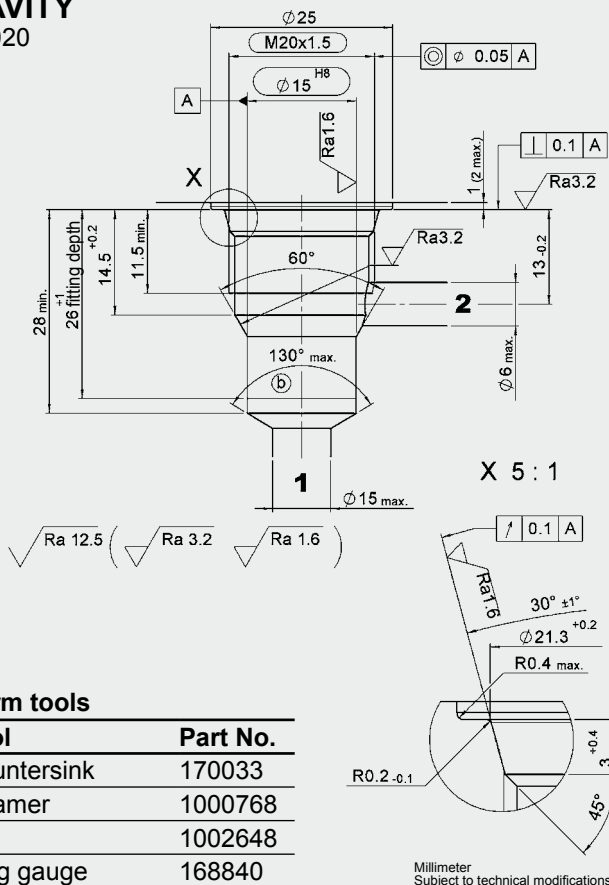
Millimeter
Subject to technical modifications

APPLICATION RANGE



CAVITY

06020



Millimeter
Subject to technical modifications

Form tools

Tool	Part No.
Countersink	170033
Reamer	1000768
Tap	1002648
Plug gauge	168840

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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