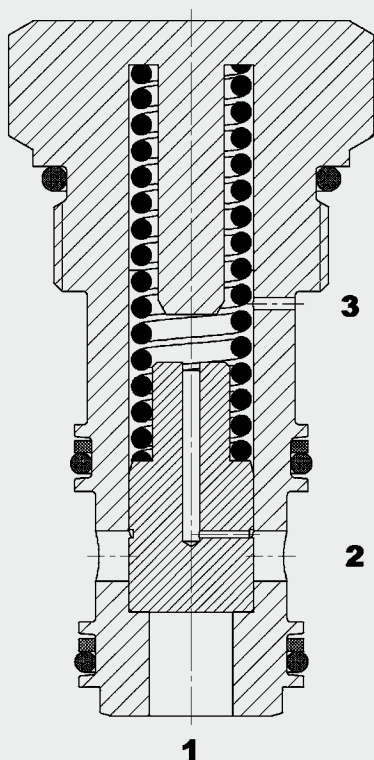


Up to 300 l/min  
Up to 350 bar

## FUNCTION



The DB16621E is a direct acting, spool type pressure relief valve with additional spring-chamber venting. When the pressure at port 1 exceeds the pre-set value, the spool opens and oil flows from port 1 to tank port 2. When the valve opens, the leakage bore to port 2 is shut-off. The additional spring chamber venting at port 3 to tank ensures that the valve is independent of pressures at port 2.

## Pressure Relief Valve Spool Type, Direct Acting with Spring Chamber Venting Metric Cartridge – 350 bar DB16621E-10

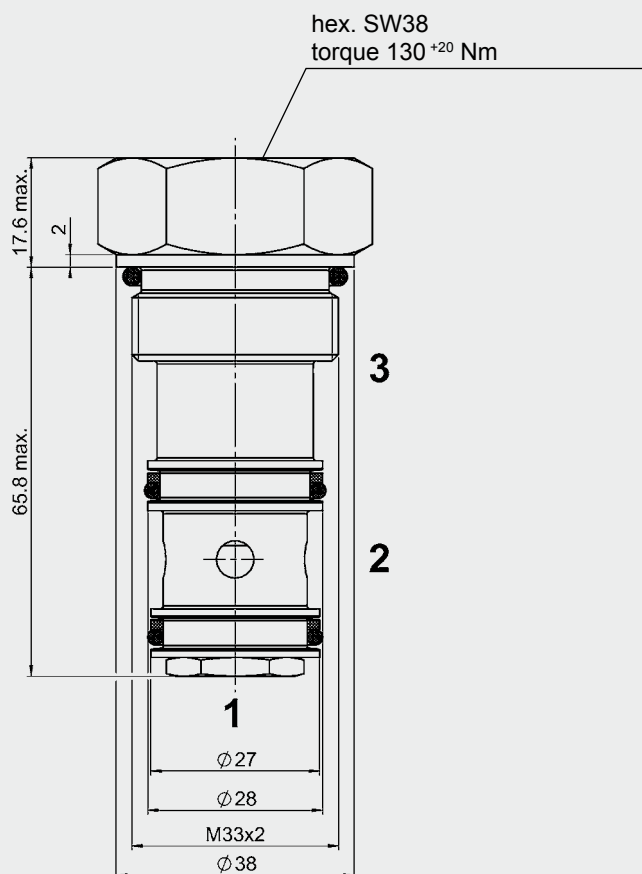
### FEATURES

- Pressure relief function with external venting of spring chamber
- Good, flat curve characteristics throughout the flow range
- External surfaces zinc-plated and corrosion-proof
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- Low pressure drop due to CFD optimized flow path
- Adjustable throughout flow range
- Can also be used as a logic element or unloader valve
- Spool orifice available as an option

### SPECIFICATIONS

Operating pressure:	max. 350 bar
Spring force:	max. 16 bar
Nominal flow:	max. 300 l/min
Media operating temperature range:	min. -20 °C to max. +100 °C
Ambient temperature range:	min. -20 °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 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, preferably horizontal
Materials:	Valve body: high tensile steel Spool: hardened steel Seals: FKM (standard) NBR (optional, media temperature range to -30 °C) Back-up rings: PTFE
Cavity:	16621
Weight:	0.386 kg

## DIMENSIONS



Millimeter  
Subject to technical modifications

## MODEL CODE

**DB 16621E - 10 - C - V - 16 F**

### Basic model

Pressure relief valve,  
metric

### Cavity to ISO

16621 = 3-way cavity

### Type

10 = standard

### Body and ports

C = cartridge only

\*Combinations with body on request

### Seals

V = FKM (standard)

N = NBR (optional)

### Setting pressure range

16 = up to 16 bar

### Type of adjustment

V = adjustable using tool

F = fixed setting, cannot be adjusted

## Standard models

Model code	Part No.
DB16621E-01-C-V-16F	3147711

Other models on request

## \*Standard in-line bodies

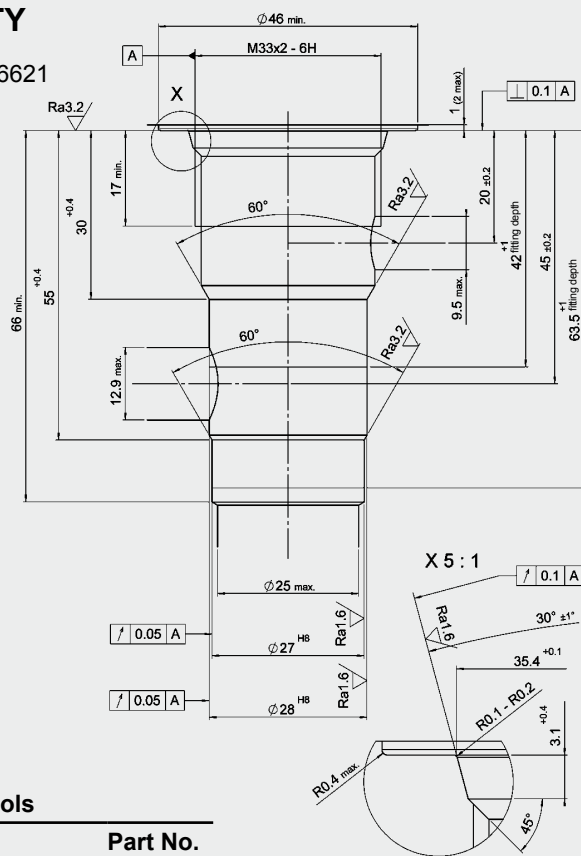
Code	Part No.	Material	Ports	Pressure
R16621-01X-01	3477778	Steel	G1, G1/4	420 bar

## Seal kits

Code	Part No.
SEAL KIT 16621-FKM	3178282
SEAL KIT 16621-NBR	3506920

## CAVITY

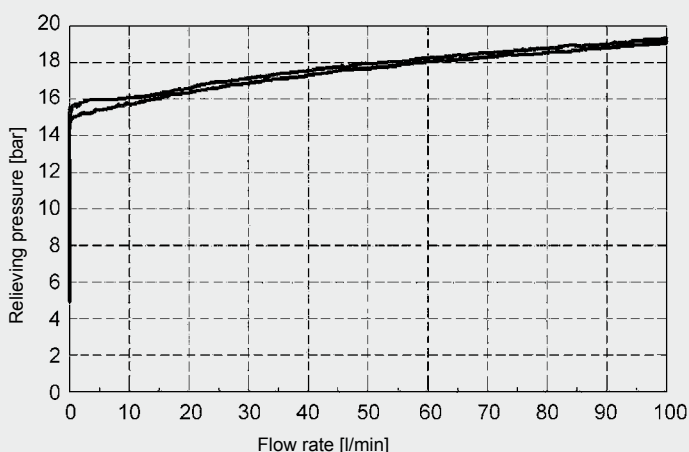
Metric 16621



Millimeter  
Subject to technical modifications

## PERFORMANCE

Measured at  $v = 33 \text{ mm}^2/\text{s}$ ,  $T_{oil} = 46^\circ\text{C}$



## NOTE

The information in this brochure relates to the operating conditions and applications described. For applications and operating conditions not described, please contact the proper HYDAC department. Subject to technical modifications.

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## Form tools

Tool	Part No.
In preparation	