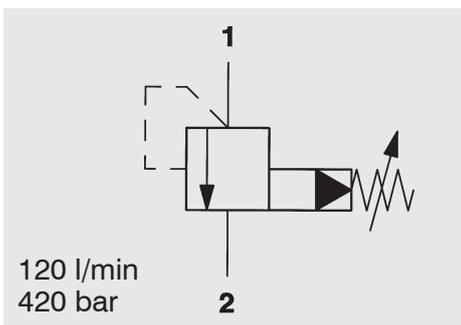


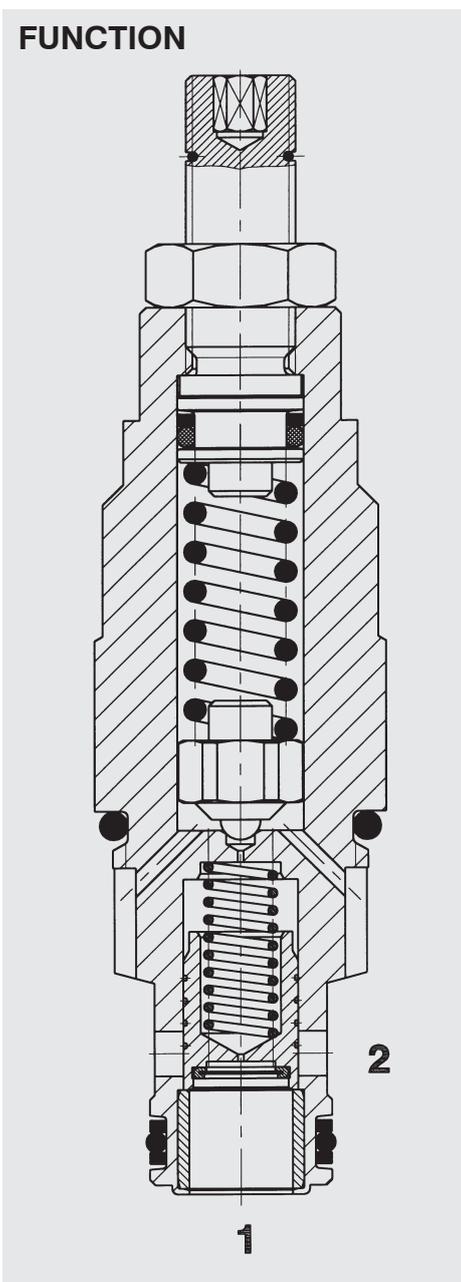
## Pressure Relief Valve SAE 10-Cartridge – 420 bar

DB10P-01

Spool Type – Pilot Operated



### FUNCTION



The DB10P is a pilot-operated pressure relief valve. If pressure at port 1 exceeds the pressure setting the pilot poppet opens, creating a small flow across the orifice in the main spool. The pressure drop over the orifice lifts the main spool against a light spring and opens a connection from port 1 to port 2.

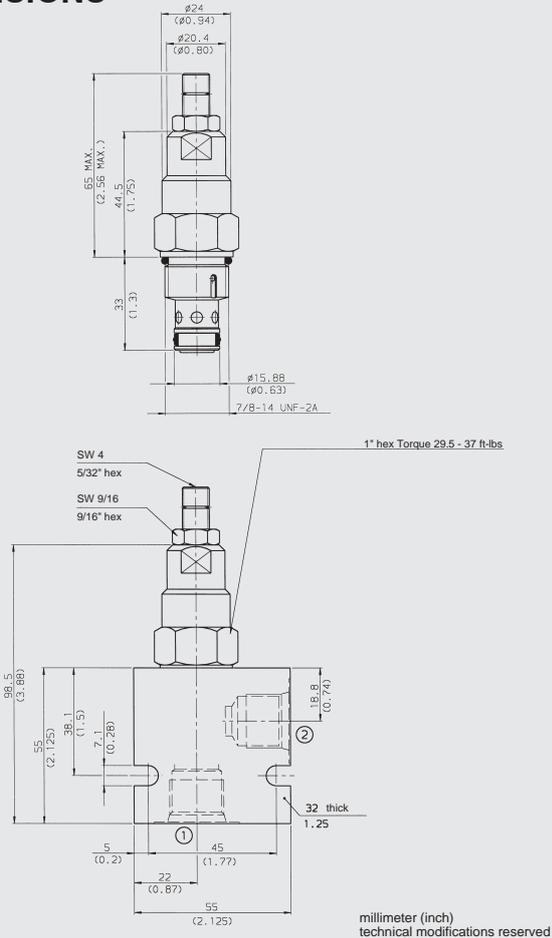
### FEATURES

- All surfaces zinc-plated and corrosion proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and to extend service life
- Screen protected measuring orifice for safe valve function
- Adjustable across entire pressure range
- Guided pilot poppet
- Optional spring ranges to 420 bar
- Quick response
- Compact design

### SPECIFICATIONS

Operating pressure:	420 bar
Nominal flow:	120 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
Media operating temp. range:	-20 °C to +120 °C
Fluids:	Mineral-based or synthetics with lubricating properties
Viscosity:	7.4 to 420 cSt
Filtration:	Class 21/19/16 according to ISO 4406 or cleaner
Installation:	No orientation restrictions
Material:	Valve body: carbon steel Spool: carbon steel Seals: NBR (standard) FKM (optional)
Cavity:	FC10-2
Weight:	200 g

## DIMENSIONS



## MODEL CODE

DB10P-01 - C - N - 180 V 100

### Basic Cartridge

### Body and Ports\*

C = Cartridge only  
 SB4 = 1/2 BSP ports, steel body  
 SS8 = SAE-8 ports, steel body  
 AB4 = 1/2 BSP ports, aluminium body  
 AS8 = SAE-8 ports, aluminium body

### Seals

N = NBR  
 V = FKM

### Spring range

050 = up to 35 bar  
 090 = up to 62 bar  
 180 = up to 124 bar  
 330 = up to 228 bar  
 500 = up to 345 bar  
 600 = up to 420 bar

### Adjustment option

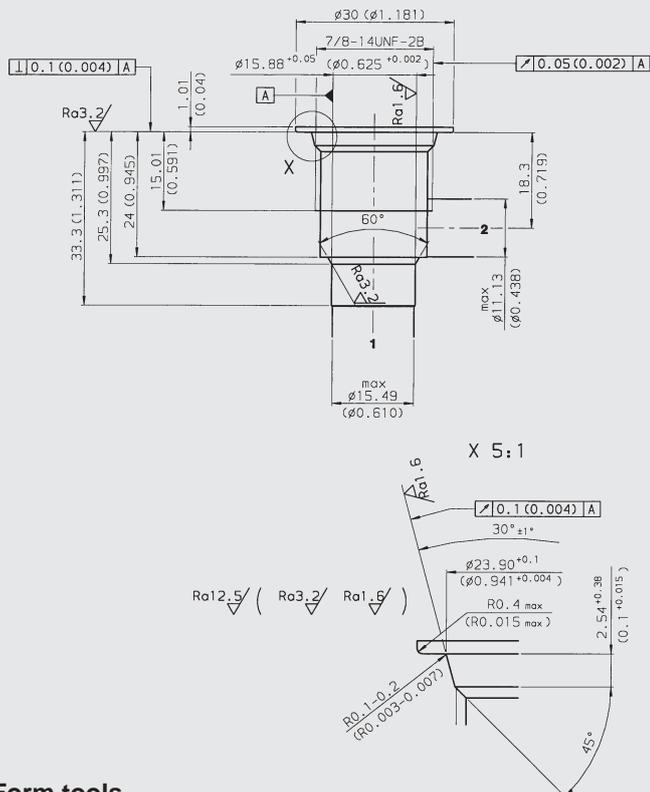
V = Allen head (HEX 5/32")  
 H = Knob adjustment  
 F = Factory preset, non adjustable  
 K = Allen head (HEX 5/32") with cover cap

### Setting

Model code = desired psi + 10

## CAVITY

FC10-2



### Form tools

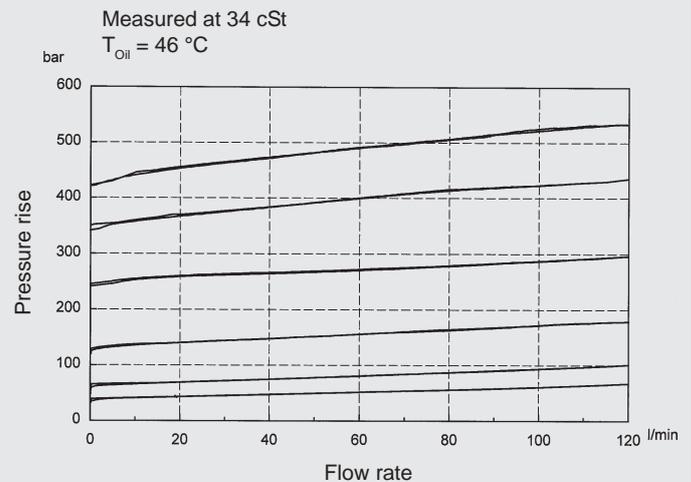
Tool	Part No
Rougher FC10-2	in preparation
Finisher FC10-2	in preparation

millimeter (inch)  
 technical modifications reserved

### \* Standard Line Bodies

Code	Part No	Material	Ports	Pressure
FH102-SB4	3037594	Steel, zinc-plated	1/2 BSP	420 bar
FH102-SS8	3037612	Steel, zinc-plated	SAE-8	420 bar
FH102-AB4	3037777	Aluminium, clear anodized	1/2 BSP	245 bar
FH102-AS8	3037778	Aluminium, clear anodized	SAE-8	245 bar

## PERFORMANCE



### 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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