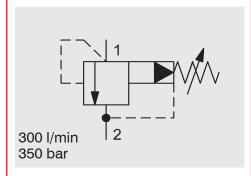


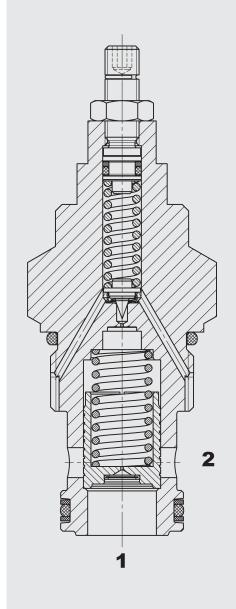
AC INTERNATIONAL



Pressure Relief Valve SAE 16-Cartridge – 350 bar

DB16P-01 Spool Type - Pilot Operated

FUNCTION



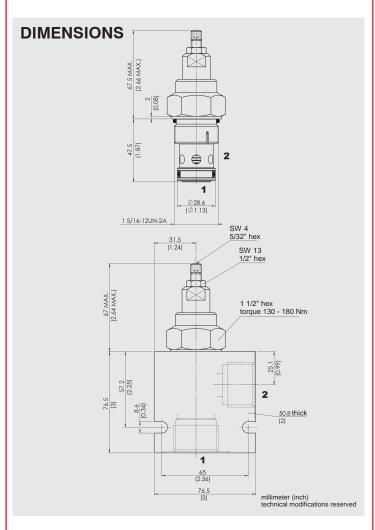
The DB16P is a pilot-operated pressure relief valve. If pressure at port 1 exceeds the pressure setting the pilot poppet opens, creating a small flow across the orifice in the main spool. The pressure drop over the orifice lifts the main spool against a light spring, opening a connection from port 1 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
- Rigid design using one-piece body minimizes the effect of eccentricity and maximizes reliability
- Excellent stability throughout flow range
- Low pressure drop by CFD optimized flow-path
- Screen protected measuring orifice enhances safety
- Optional spring ranges up to 345 bar
- Adjustable across entire pressure range
- Quick response
- Compact design

SPECIFICATIONS

Operating pressure:	350 bar		
Nominal flow:	300 l/min		
Operating pressure ranges:	up to 35 bar up to 60 bar up to 125 bar up to 230 bar up to 345 bar		
Internal leakage:	less than 1 l/min at 350 bar		
Media operating temperature range:	-20 °C to +120 °C		
Ambient temperature range:	-20 °C to +80 °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:	FC16-2		
Weight:	465 g		



Part No

176218

176219

Tool

Rougher FC16-2

Finisher FC16-2

MODEL CODE DB16P-01 - C - N - 180 V 100 Basic Model -Body and Ports*-= Cartridge only SB8 = 1 BSP ports, steel body SS16 = SAE-16 ports, steel body AB8 = 1 BSP ports, aluminium body AS16 = SAE-16 ports, aluminium body N = NBR= FKM Spring range 050 = up to 35 bar090 = up to 60 bar180 = up to 125 bar330 = up to 230 bar500 = up to 345 barAdjustment option = Allen head (HEX 5/32") = Knob adjustment F = Factory preset, non adjustable = Allen head (HEX 5/32") with cover cap

Standard models

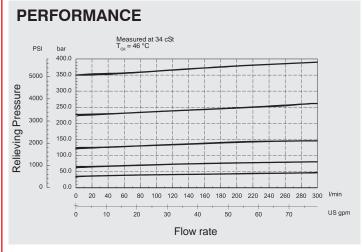
Model code = desired psi ÷ 10

Setting

Model code	Material no.	
DB16P-01-C-N-090V	3010799	
DB16P-01-C-N-330V	3010800	
DB16P-01-C-N-500V	3010794	

* Standard Line Bodies

Code	Part No	Material	Ports	Pressure
FH162-SB8	3032496	Steel, zinc-plated	1 BSP	420 bar
FH162-SS16	3032655	Steel, zinc-plated	SAE-16	420 bar
FH162-AB8	3037193	Aluminium, clear anodized	1 BSP	245 bar
FH162-AS16	3037195	Aluminium, clear anodized	SAE-16	245 bar



NOTE

millimeter (inch) technical modifications reserved 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.

HYDACFluidtechnik GmbH Justus-von-Liebig-Str. D-66280 Sulzbach/Saar Tel: 0 68 97 /509-01 Telefax. 0 68 97 /509-598 E-Mail: flutec@hydac.com