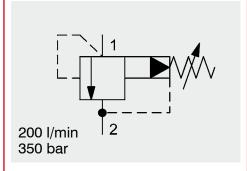
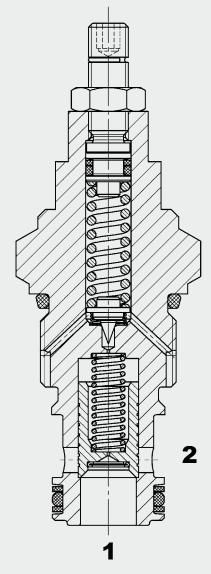
(PAC) INTERNATIONAL



Pressure Relief Valve SAE 12-Cartridge - 350 bar

DB12P-01 Spool Type - Pilot Operated

FUNCTION



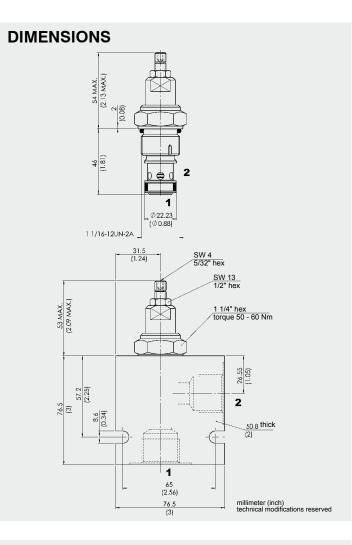
The DB12P is a pilot-operated pressure relief valve. If pressure at port 1 exceeds the pressure setting the pilot poppet opens, creating a small flow across the orifice in the main spool. The pressure drop over the orifice lifts the main spool against a light spring, opening a connection from port 1 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:	200 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 0.5 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:	FC12-2		
Weight:	265 g		
	·		



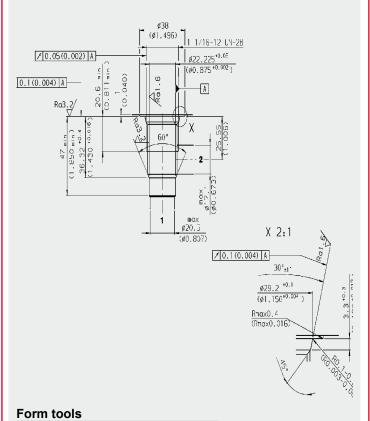
CAVITY

FC12-2

Tool

Rougher FC12-2

Finisher FC12-2



Part No

in preparation

in preparation

millimeter (inch) technical modifications reserved	

MODEL CODE DB12P-01 - C - N - 180 V 100 Basic Model -Body and Ports*-= Cartridge only SB6 = 3/4 BSP ports, steel body SS12 = SAE-12 ports, steel body AB6 = 3/4 BSP ports, aluminium body AS12 = SAE-12 ports, aluminium body = NBR = FKM Spring range 050 = up to 35 bar090 = up to 60 bar180 = up to 125 bar 330 = up to 230 bar500 = up to 345 bar**Adjustment option** = Allen head (HEX 5/32") = Knob adjustment = Factory preset, non adjustable = Allen head (HEX 5/32") with cover cap F

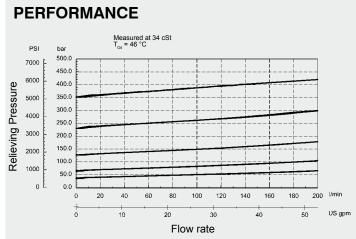
Standard models

Model code = desired psi ÷ 10

Model code	Material no.
DB12P-01-C-N-090V	3047311
DB12P-01-C-N-330V	3047313
DB12P-01-C-N-500V	3047314

* Standard Line Bodies

Code	Part No	Material	Ports	Pressure
FH122-SB6	3053782	Steel, zinc-plated	3/4 BSP	420 bar
FH122-SS12	3053772	Steel, zinc-plated	SAE-12	420 bar
FH122-AB6	3053843	Aluminium, clear anodized	3/4 BSP	245 bar
FH122-AS12	3053845	Aluminium, clear anodized	SAE-12	245 bar



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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