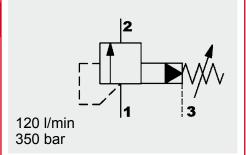
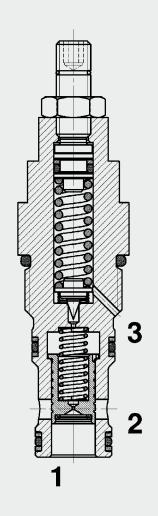
DAC) INTERNATIONAL



Pressure Relief Valve Spool Type, Pilot-Operated With Pilot Drain SAE-10 Cartridge - 350 bar DB10SPE

FUNCTION



The pressure relief valve DB10SPE is a pilot operated, spring loaded spool valve with pilot drain at port 3. This means that any pressure at port 2 has no influence on pressure adjustment.

If the pressure across port 1 rises and exceeds the pre-set value, the pilotstage opens and oil flows from behind the main spool to the tank port 3. The resulting pressure differential causes the main spool to move against the resetspring and allows oil to flow from port 1 to port 2.

FEATURES

- Additional tank connection to drain the pilot stage
- Additional use as a pilot operated pressure compensator
- Good stability across the whole pressure and flow range
- External surfaces zinc-plated and corrosion-proof
- Hardened and ground control piston to ensure minimal wear and extended service life
- Adjustable throughout flow range
- Different pressure ranges up to 350 bar available
- Flat p-Q curve achieved by having separate line for pilot oil (port 3)

SPECIFICATIONS

Operating pressure:	max. 350 bar			
Nominal flow:	max. 120 l/min			
Setting pressure range:	5 to 35 bar 5 to 60 bar 5 to 125 bar 5 to 230 bar			
	5 to 345 bar			
Leakage:		max. 500 ml/min at 80 % of p _{Nom. pressure}		
Media operating temperature range:	min30 °C to max. +100 °C			
Ambient temperature range:	min30 °C to max. +100 °C			
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2			
Viscosity range:	min. 10 mm²/s to max. 420 mm²/s			
Filtration:	Class 21/19/16 to ISO 4406 or cleaner			
MTTF _d :	150 years (see "Conditions and instructions for valves" in brochure 5.300)			
Installation:	No orientation restrictions			
Materials:	Valve body:	free-cutting steel		
	Spool:	hardened and ground steel		
	Seals:	NBR (standard) FKM (optional, media temperature range -20 °C to 120 °C)		
	Back-up rings:	PTFE		
Cavity:	FC10-S3			
Weight:	0.17 kg			

DIMENSIONS Ø 19,05 Ø(0,75) 7/8-14UNF-2A 29,5 (1,16) SW 4 5/32" hex SW 12.7 49,5 max. hex. 1/2 torque 40+5 Nm 31,7 66,5 (2,62) 53,8 (2,12) ihry)dda

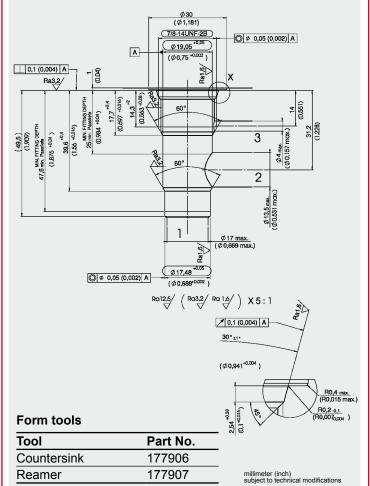
32 thick (1,26)

millimeter (inch) subject to technical modifications

50,8 63,8 (2,51)

CAVITY

FC10-S3



MODEL CODE DB10 SPE - 01 - C - N - 050 V 029 Basic model-Pressure relief valve, UNF **Function** PE = pilot-operated with pilot drain Type -01 = standard Body and ports* = cartridge only SB4 = G1/2 ports, steel body AB4 = G1/2 ports, aluminium body Seals N = NBR (standard) V = FKM (optional) Pressure ranges 050 = 5 to 35 bar (500 PSI) 090 = 5 to 62 bar (900 PSI) 180 = 5 to 124 bar (1800 PSI) 330 = 5 to 228 bar (3300 PSI) 500 = 5 to 345 bar (5000 PSI) Other pressure ranges on request

Standard models

Type of adjustment = Allen head

Other adjustment types on request

No details = no setting, spring relaxed

029 = 20 bar, specific opening pressure on request

Model code	Part No.
DB10SPE-01-C-N-050V	3408654
DB10SPE-01-C-N-090V	3433849
DB10SPE-01-C-N-180V	3433850
DB10SPE-01-C-N-330V	3433851
DB10SPE-01-C-N-500V	3408666
Other models on request	

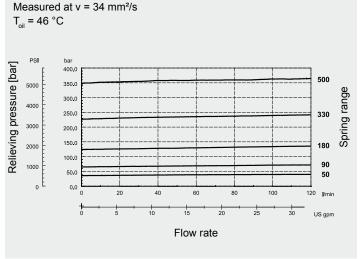
*Standard in-line bodies

PERFORMANCE

Code	Part No.	Material	Ports	Pressure
FH10S3-AB4	3272637	Aluminium, anodized	G1/2	210 bar
FH10S3-SB4	3310162	Steel, zinc-plated	G1/2	350 bar

Seal kits

Code	Material	Part No.
FS10S3-N	NBR	3468413



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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