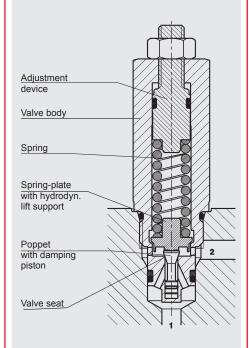
DACINTERNATIONAL

Up to 30 l/min Up to 630 bar

Pressure Relief Valve Poppet Type, Direct-Acting Metric Cartridge – 630 bar DB4F

FUNCTION



FEATURES

- Excellent stability throughout the entire flow range
- Low hysteresis and accurate pressure control
- External surfaces zinc-plated
- Hardened and ground valve components to ensure minimal wear and extended service life
- Low pressure drop by CFD optimized flow path
- Adjustable throughout flow range
- Various pressure ranges up to 630 bar

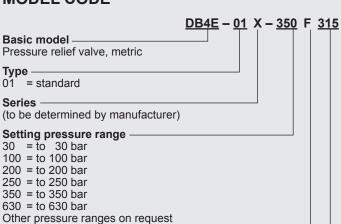
SPECIFICATIONS

Operating pressure:	max. 630 bar			
	max. 100 bar at	port 2 (tank)		
Nominal flow:	30 l/min			
Operating pressure ranges:	4 to 30 bar			
	10 to 100 bar			
	10 to 200 bar			
	10 to 250 bar			
	20 to 350 bar			
	30 to 630 bar			
Leakage:		Leakage-free		
		0,25 cm³/min at 350 bar)		
Media operating temperature range:	min20 °C to max. +120 °C			
Ambient temperature range:	min20 °C to max. +120 °C			
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2			
Viscosity range:	min. 7.4 mm ² /s to max. 420 mm ² /s			
Filtration:	Class 21/19/16 according to ISO 4406 or			
	cleaner			
MTTF _d :	150 years *			
Installation:	No orientation restrictions			
Materials:	Valve body:	high tensile steel		
	Piston:	hardened and		
		ground steel		
	Seals:	FKM (standard)		
		NBR (optional, media		
		temperature range		
		-30 °C to +100 °C)		
	Back-up rings:	PTFE		
Cavity:	06020			
Weight:	0.14 kg			

The pressure relief valve DB4E is a direct-acting, spring-loaded poppet valve. Its function is to relieve pressure in the system. The spring exerts a force on the poppet and presses it onto the valve seat. If the hydraulic pressure is below the pre-set spring tension, the valve is closed. When the hydraulic force exceeds the pre-set spring tension, the valve opens and allows flow to the tank via port 2.

Important: Pressures at port 2 are additive to the opening pressure! If the connections are incorrect or if the pressure has been set above the operating pressure, the safety function of the valve is disabled.

To ensure that stable operation is maintained, the poppet is securely located in the damping piston which produces a damping force, opposing the direction of movement, and this has a stabilizing effect.



Type of adjustment -

= Allen head (standard)

= fixed setting, cannot be adjusted = can be lead-sealed, adjustable with tool

= maximum pressure relief, adjustable with tool

= scaled knob, adjustable by hand

= adjustable, with locking E10, cyl. lock 2H

Other types of adjustment on request

Opening pressure setting
No details = no setting, spring relaxed

315 = opening pressure in bar, factory pre-set, Setting on request

Standard models

Code	Part No.
DB4E-01X-30V	716000
DB4E-01X-100V	716001
DB4E-01X-200V	716002
DB4E-01X-250V	716143
DB4E-01X-350V	716003
DB4E-01X-630V	716004

Other models on request

Standard in-line bodies

Code	Part No.	Material	Ports	Pressure
R06020-01X-01	275266	Steel, zinc-plated	G 3/8	420 bar
Oth and line a bendine				

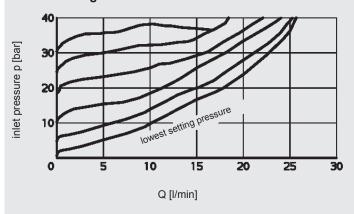
Other line bodies on request

Seal kits

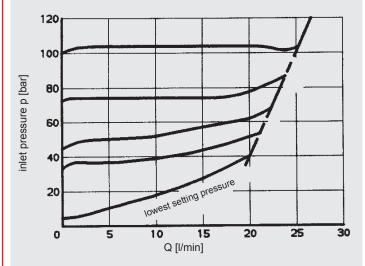
Code	Part No.
SEAL KIT 06020-FKM	3262477
SEAL KIT 06020-NBR	3119017

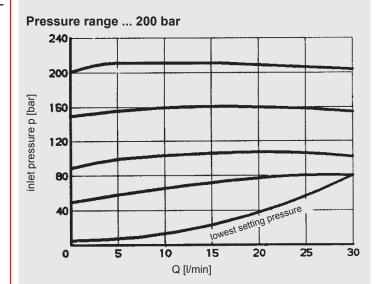
PERFORMANCE

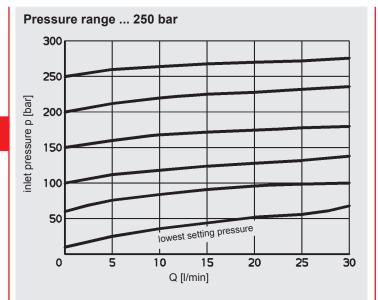
Pressure range ... 30 bar

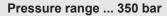


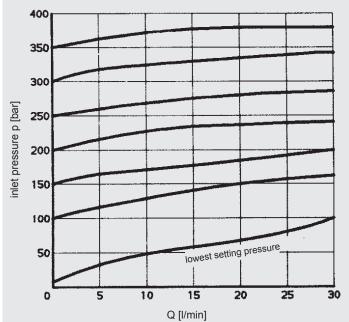
Pressure range ... 100 bar



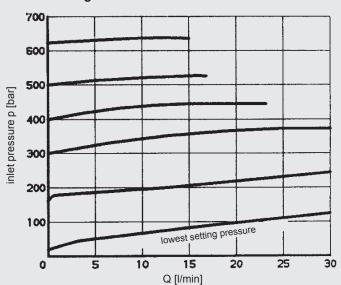


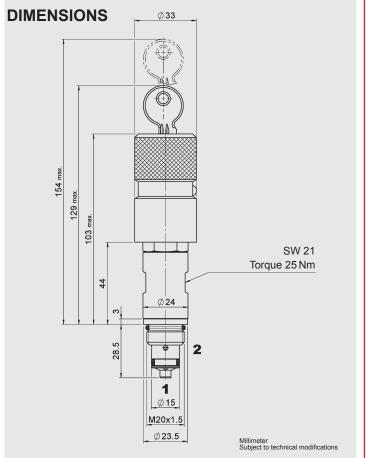


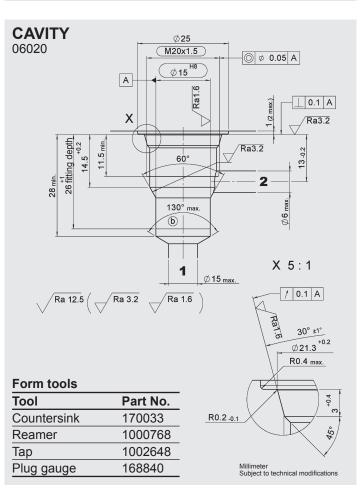




Pressure range ... 630 bar







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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