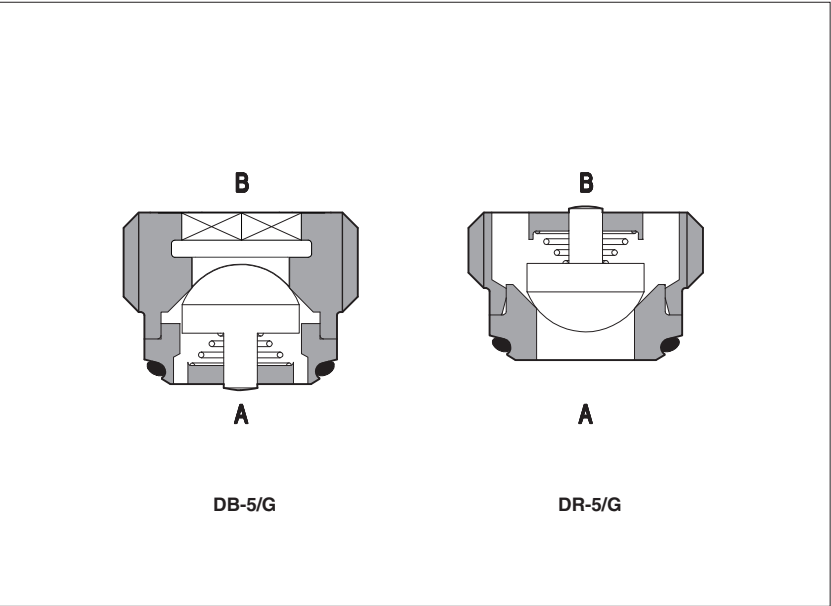


Cartridge check valves type **DB, DR**

screw-in mounting - from G1/4" to G1/2"



DB, DR are direct operated check valves for screw-in mounting in cavities from G1/4" to G1/2". They are specifically designed to reduce the manifold dimensions and simplify the installation. Cartridge designed to operate in hydraulic systems with hydraulic mineral oil or synthetic fluid having similar lubricating characteristics.

Flow up to **95 l/min.**
Max pressure: **350 bar**

1

MODEL CODE

D

Screw-in check valve

B

B = function A → B
R = function B → A

10

Size/threated connections:
5 = G 1/4" 10 = G 3/8" 15 = G 1/2"

G

G = Gas threading

**

Series number

*

Seals material, see section 3:
- = NBR
PE = FKM
BT = HNBR

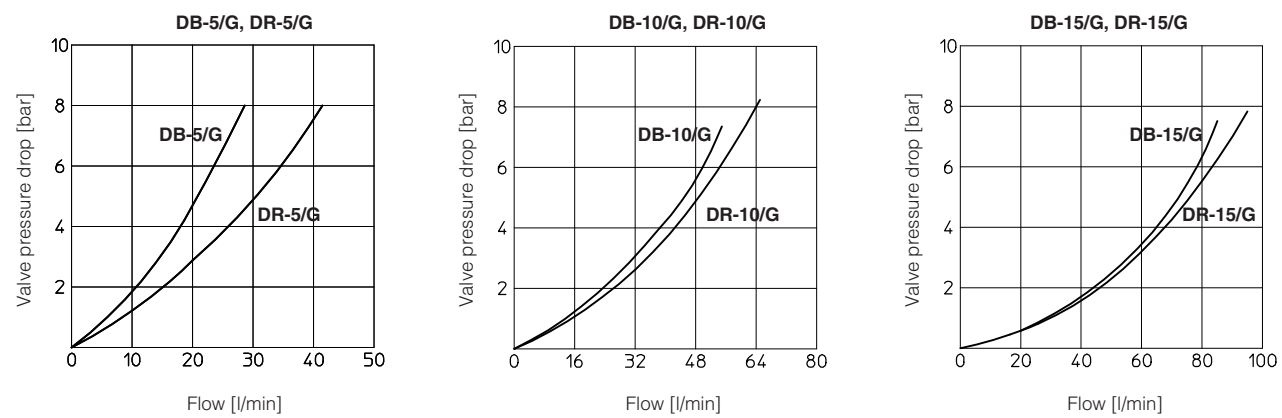
2 HYDRAULIC CHARACTERISTICS

Hydraulic symbol	DB-*/G A  B			DR-*/G A  B		
Valve model	DB-5/G	DR-5/G	DB-10/G	DR-10/G	DB-15/G	DR-15/G
Nominal flow (at Δp = 8 bar) [l/min]	25	35	55	65	85	95
Max pressure [bar]	350					
Cracking pressure [bar]	0,3					

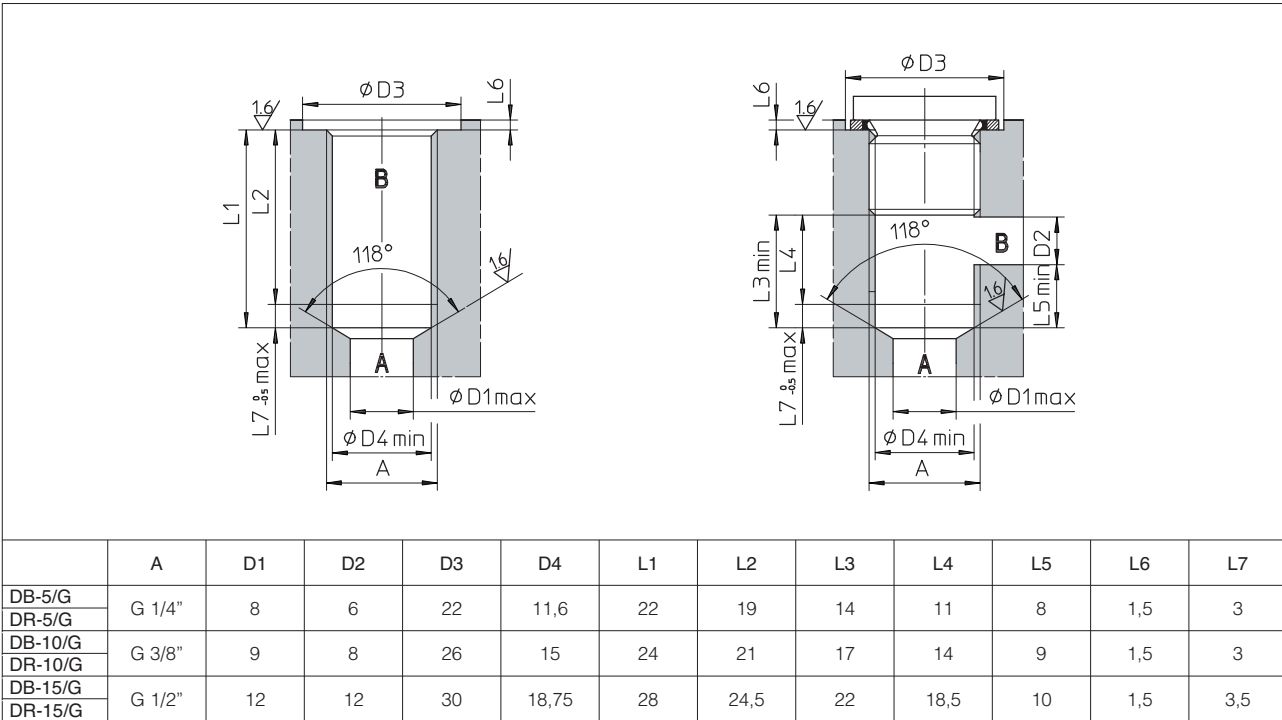
3 MAIN CHARACTERISTICS, SEALS AND FLUIDS - for other fluids not included in below table, consult our technical office

Assembly position	Any position		
Ambient temperature	Standard execution = -30°C ÷ +70°C; /PE option = -20°C ÷ +70°C ; /BT option = -40°C ÷ +70°C		
Seals, recommended fluid temperature	NBR seals (standard) = -20°C ÷ +60°C, with HFC hydraulic fluids = -20°C ÷ +50°C FKM seals (/PE option) = -20°C ÷ +80°C HNBR seals (/BT option) = -40°C ÷ +60°C, with HFC hydraulic fluids = -40°C ÷ +50°C		
Recommended viscosity	15÷100 mm²/s - max allowed range 2,8 ÷ 500 mm²/s		
Fluid contamination class	ISO 4406 class 21/19/16 NAS 1638 class 10, in line filters of 25 µm (β10 ≥75 recommended)		
Flow direction	As shown in the symbol at section 2		
Rated flow	See diagrams Q/Δp at section 4		
Hydraulic fluid	Suitable seals type	Classification	Ref. Standard
Mineral oils	NBR, FKM, HNBR	HL, HLP, HLPD, HVLP, HVLPD	DIN 51524
Flame resistant without water	FKM	HFDU, HFDR	ISO 12922
Flame resistant with water	NBR, HNBR	HFC	

4 FLOW VERSUS PRESSURE DROP DIAGRAMS based on mineral oil ISO VG 46 at 50°C



5 RECESS DIMENSIONS [mm]



6 VALVE DIMENSIONS [mm]

