

Orifices and restrictor check valves type EB, BE, and BC

The orifice inserts type EB are part of the flow valves, whereas the restrictor check valves type BE and BC are a combination of a flow and check valve.

They are used to limit the flow during switching operations of directional valves (flow restriction preventing too rapid discharging of accumulators). The restrictor check valves type BC and BE, feature an orifice or slot design. They enable free flow in direction $F \to B$ and throttle the flow in the reverse direction.



Type BC can be installed in both flow directions. The incorporated check valve is spring loaded.

The mounting hole may be shaped with a simple drill (point angle 118°).

The orifice inserts, type EB, can be installed in the P-ports of indiv. sub-plate mounted directional valves.

Nomenclature:	Orifice Restrictor check valve
Design:	Orifice insert Screw-in valve Version with housing for in-line installation
p _{max} :	400 700 bar
Q _{max} :	0.5 120 lpm

Basic types and general parameters

Size		Ва	sic type and flow pattern		Thread (BSPP)
		Screw	Screw-in valve		(screw-in valves only
		F W B	F B	B	- not type EB)
		ВС	BE	EB	_
0	Q _{max}		12	6	G 1/8 A
	p _{max}		500	500	
1	Q _{max}	20	25	10	G 1/4 A
	p _{max}	700	500	500	
2	Q _{max}	35	40	40	G 3/8 A
	p _{max}	700	500	500	
3	Q _{max}	60	70	100	G 1/2 A
	p _{max}	500	450	500	
4	Q _{max}		120	120	G 3/4 A
	p _{max}		400	500	

Available orifices diameter depending on type and size from 0.4 to 4.2 mm

Additional versions

• Type BC and BE with metric thread

• Type BC and BE with housing for in-line installation

Order examples

BC 1 - 0.8

Restrictor check valve type BC, size 1 with hole type orifice Ø0.8 mm

BE 2 - 2.0

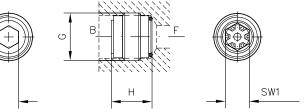
Restrictor check valve type BE, size 2 with hole type orifice Ø2.0 mm

EB 2 - 1.7

Orifice insert type EB, size 2 with hole type orifice \varnothing 1.7 mm

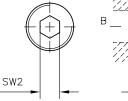
Dimensions

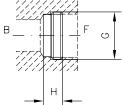
Type BC.. (screw-in direction arbitrary)





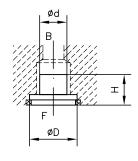






Type EB..

SW2



All dimensions are in mm, and subject to change without notice!

Basic type	Н	G/D	SW1 / Ød	SW2	_ m (g)
BC 1	13	G 1/4 A	a/f 8	a/f 4	6
BC 2	15	G 3/8 A	a/f 9	a/f 5	10
BC 3	18	G 1/2 A	a/f 12	a/f 8	24
BE 0	5	G 1/8 A	a/f 4		2
BE 1	6	G 1/4 A	a/f 5		4
BE 2	7	G 3/8 A	a/f 8		6
BE 3	7.5	G 1/2 A	a/f 10		10
BE 4	9	G 3/4 A	a/f 12		18
EB 0	1.8	6.1	5.5		2
EB 1	1.8	8.1	7.4		4
EB 2	9	14	8		6
EB 3	11.5	17	10		10
EB 4	10	28	27		18

G = BSPP

Further information

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Restrictor check valve	es type BC	D 6969 B
	type BE	D 7555 B
Orifice inserts type EE	3	D 6465
• Check valves type ER		D 7325
Screw-in check valves type RE		D 7555 R
	type RC	D 6969 R
	type RK, RB	D 7445

• Screw-in check valves type BSE, QSE, MSE

- Restrictor check valves type RD, ED, RDF D 7540
- See also section "Devices for special applications" (Screw-in valves and installation kits)

For page and section of the devices additionally listed, see type index

2.4-13

D 7121