

# BENCOR (Pty) Ltd.

Flow valves



## 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, types 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 → 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 manifold mounted directional valves.

**Nomenclature:** Orifice  
Restrictor check valve

**Design:** Orifice insert  
Screw-in valve  
Version with housing for in-line installation

**p<sub>max</sub>:** 400 ... 700 bar

**Q<sub>max</sub>:** 0,5 ... 120 l/min

### Basic types and general parameters

Size	Basic type and flow pattern			Tapped ports (screw-in valves only - not type EB)	
	Screw-in valve	Screw-in valve	Orifice insert		
	BC	BE	EB		
0	Q <sub>max</sub>	---	12	6	G 1/8 A
	p <sub>max</sub>	---	500	500	G 1/8 A
1	Q <sub>max</sub>	20	25	10	G 1/4 A
	p <sub>max</sub>	700	500	500	G 1/4 A
2	Q <sub>max</sub>	35	40	40	G 3/8 A
	p <sub>max</sub>	700	500	500	G 3/8 A
3	Q <sub>max</sub>	60	70	100	G 1/2 A
	p <sub>max</sub>	500	450	500	G 1/2 A
4	Q <sub>max</sub>	---	120	120	G 3/4 A
	p <sub>max</sub>	---	400	500	G 3/4 A

Available orifices diameter depending on type a. size from 0,4 to 4,2 mm

### Additional versions

- Type BC and BE with metric connection thread
- Type BC with housing for in-line installation