



BE-01

Inflow and Outflow Calming-Section for Flowmeters



Features

- / Brass or stainless steel versions
- / O-Ring or flat seal
- / Inflow section length 10 x DN
- / Outflow section length 5 x DN
- / Easy to mount
- / Pressure up to PN 350
- / Temperature up to 160°C
- / High chemical resistance
- / Thread as per DIN EN ISO 228-1

Description:

The BE-01 inflow and outflow sections are developed to produce a rectification of the flow profile, as well as to reduce swirl effects and thus allow accurate and repeatable flow measurement. The series BE-01 is made of brass or high quality stainless steel (1.4571) and therefore has a high chemical resistance to a number of industrially used liquids and gaseous media. The process connection is made by connecting thread to DIN EN ISO 228-1 and ensures a quick and safe installation. When using commercially available pipes and fittings as inflow or outflow sections, the seal often poses a danger to the measuring instrument. Thus, for example, excessing sealing material, such as hemp or Teflon®tape, can wind around the sensor and cause a permanent damage. The inflow and outflow sections of the series BE-01 are neatly and securely sealed with O-rings or flat seals.

Application:

BE-01 inflow and outflow sections are suitable for liquids and gaseous media. They can be used everywhere in the industry, where asymmetrical flow affect the measurement. BE-01 are ideally suited as inflow and outflow section for flow sensors, flow meters or flow switches.



Technical Specifications:

Housing material /	brass or stainless steel 1.4571
Process connection /	as per DIN EN ISO 228-1
Seal /	O-ring or flat seal
Media /	liquids or gases
max. Temperature /	160 °C (depending on the O-ring material used)
O-ring NBR:	100 °C
O-ring FKM:	100 °C
O-ring EPDM:	160 °C
Flat seal PTFE:	160 °C
max. Operating pressure /	
with flat seal:	16 bar
with O-ring:	depending on the type (see table)

Op. pressure with O-Ring:

max. Operating pressure	Housing material brass		Housing material stainless steel	
	< 120 °C	< 160 °C	< 120 °C	< 160 °C
BE-01.1a (G ¼", inflow)	300 bar	140 bar		
BE-01.1b (G ¼", outflow)				350 bar
BE-01.2a (G ½", inflow)	260 bar	110 bar		
BE-01.2b (G ½", outflow)				
BE-01.3a (G 1", inflow)	210 bar	90 bar		300 bar
BE-01.3b (G 1", outflow)				

Dimensions in mm:



Ordering Codes:

Order number	BE-01.	2.	1.	1
BE-01 Calming section				
Type /				
1 = G ¼", full set (inflow and outflow)				
1a = G ¼", 1x inflow				
1b = G ¼", 1x outflow				
2 = G ½", full set (inflow and outflow)				
2a = G ½", 1x inflow				
2b = G ½", 1x outflow				
3 = G 1", full set (inflow and outflow)				
3a = G 1", 1x inflow				
3b = G 1", 1x outflow				
Material /				
1 = brass				
2 = stainless steel 1.4571				
Sealing /				
1 = flat seal PTFE				
2 = O-ring NBR (standard for housing material brass)				
3 = O-ring FKM (standard for housing material stainless steel)				
4 = O-ring EPDM				

Sizes (mm)	G male	G female	DN	L	D	SW
BE-01.1a (G ¼", inflow)				80		
BE-01.1b (G ¼", outflow)	¼"	¼"	8	40	18	16
BE-01.2a (G ½", inflow)				150		
BE-01.2b (G ½", outflow)	½"	½"	15	75	27	24
BE-01.3a (G 1", inflow)				250		
BE-01.3b (G 1", outflow)	1"	1"	25	125	40	36