

Gravity Circulation Checks

SBO 11, SBO 21, SBO 31 PN 6 DN 3/4", 1", 11/4"

Description

 $Check \ valve \ for \ installation \ downstream \ of \ circulating \ pumps \ in \ heating \ and \ hot \ water \ installations \ to \ prevent \ gravity \ circulation.$

Pressure & temperature ratings					
Service pressure	bar	6			
Operating temperature	°C	130 ¹⁾			

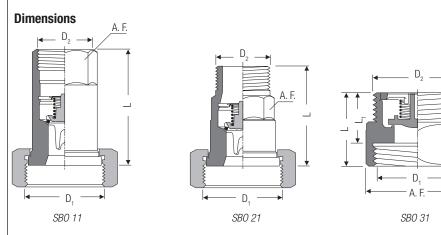
¹⁾ Valve cone not under pressure

End connection

SBO 11: Vale inlet provided with a collar for fitting the union nut of the circulating pump. Valve outlet screwed female for direct connection to the feed line.

SBO 21: Vale inlet provided with a collar for fitting the union nut of the circulating pump. Valve outlet screwed male for connecting an additional stop valve.

SBO 31 Valve inlet screwed female for direct connection to the circulating pump. Valve outlet screwed male for fitting the nipple with gasket and union nut of the circulating pump.



Туре		SBC) 11	SB0 21		SB0 31		
Nominal size	DN	1"	1¼"	1"	11/4"	3/4"	1"	1¼"
Dimensions	L	66	82	57	70	39	40	45
	L,					25.5	26.5	31.5
	D ₁	G 1½	G 2	G 1½	G 2	G 1¼	G 1½	G 2
	$D_{\!\scriptscriptstyle 2}$	G 1	G 11⁄4	R 1	R 11/4			
	A. F.	36	46	36	46	50	55	65
Weight	[kg]	0.4	0.6	0.32	0.6	0.3	0.34	0.5

Materials						
Туре	SB0 11	SB0 21	SB0 31			
Body	CWe	CW614N				
Valve cone		Plastics PPO*)				
Spring to close		1.4310				
Seat gasket	EP	EPDM				
Guide	1.4	1.4310				

^{*)} Note that PPO is not resistant to glycol!

Gravity Circulation Checks

SBO 11, SBO 21, SBO 31 PN 6 DN 34", 1", 114"

Pressure Drop Chart

The curves given in the chart are valid for water at 20 °C.

The values indicated in the charts are based on readings taken at spring-loaded valves that are installed horizontally. With vertical flow insignificant deviations occur only within the range of partial opening.

Opening Pressures

Differential pressures at zero volume flow.

Valve	DN	Opening pressures [mbar]			
type		Direction of flow			
		without spring with spring			g
		1	1	\rightarrow	1
SB0 11	1" 1¼"	1	7	6	6
SB0 21	1" 1¼"	1	7	6	5
SB0 31	¾" 1" 1¼"	2	9	7	5

Specification Text

GESTRA gravity circulation checks, hot-pressed brass / plastics, spring-loaded.

Type SBO..., DN..., end connection G...

Order Specifications

Type SBO..., DN... / G...

Application of European Directives

Pressure Equipment Directive (PED)

The equipment conforms to this directive and can be used for the following media:

■ Fluids of group 2

ATEX Directive

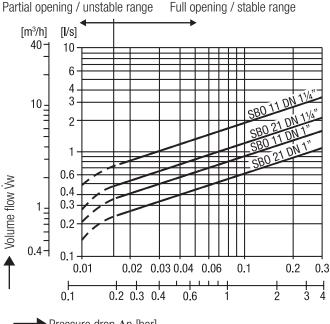
The equipment does not have its own potential ignition source and is not subject to this directive.

Static electricity: When installed, static electricity may arise between the equipment and the connected system.

When used in potentially explosive atmospheres, the plant manufacturer or plant operator is responsible for discharging or preventing possible static charge.

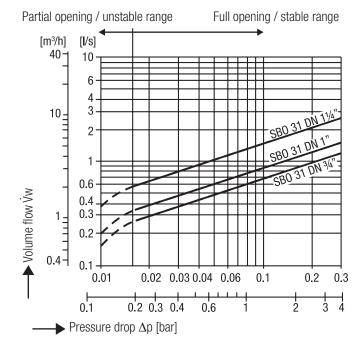
If it is possible for medium to escape, e.g. through actuating mechanisms or leaks in threaded joints, the plant manufacturer or plant operator must take this into consideration when dividing the area into zones.

SB011 and SB021



Pressure drop ∆p [bar]

SB031



Supply in accordance with our general terms of business.

GESTRA AG

Münchener Straße 77, 28215 Bremen, Germany Telefon +49 421 3503-0, Telefax +49 421 3503-393 E-mail info@de.gestra.com, Web www.gestra.de

