**DIVERTING VALVES** 

# **DIVERTING VALVE SERIES SLB130 SUPERFLOW**

The Super flow valve SLB 130 represents a high speed Diverting and Mixing valve. Combined with high flow rates and an advanced modern control interface they are the ideal product for our OEM customers, where flexibility, compactness and customization is wanted and needed.



SI B130

#### **OPERATION**

The ESBE Series SLB130 is a high speed compact diverting and mixing valve made out of brass. Thanks to the new motor drive system a high speed change-over time of 2 seconds, and a high precision control over the flow characteristics is possible.

#### **VERSIONS**

The actuator is available in 12V DC or 24V AC/DC versions with 2-point, PWM or proportional (0-10V, 2-10V, 0-20mA, 4-20mA) control signal. Customer specific settings, such as type of control signal, start-up behavior, mixing or diverting function, alarms and warnings could be configured on the customer behalf.

A configuration guide will be sent out to your attention to configure "YOUR SUPERFLOW VALVE". Based on this customer-specific configuration ESBE will supply the SLB130 valve.

### **SERVICE AND MAINTENANCE**

The slender and compact design of the valve allows for easy tool access when assembling and disassembling the valve. The standard SLB130 valves are maintenance free so no exchangeable parts exists.

#### **TECHNICAL DATA**

Valve:

Pressure class:	PN 16
Media temperature:	max. (continuosly) +95°C
	_ max. (temporarily) +110°C
	min. +5°C
Max. differential pressure drop:	100 kPa (1.0 bar)
Internal leakage:	
Connections:Exter	nal thread (G), ISO 228/1 B
Material	
Valve body:	Brass CW 617N
Plunger:	PPS composite
O-rings:	EPDM
Motor spindle:	Stainless steel
Plunger washer:	Stainless steel
Nyloc nut:	_Stainless steel EN 1.4310
Packing box sealing:	EPDM
Packing box washer:	_Stainless steel EN 1.4310
Wire ring:	_Stainless steel EN 1.4310

Max. peak current consumption, - SLB132:\_\_\_\_\_850 mA Material Cover:

Cable:\_

Actuator:

Ambient temperature:

Running time accuracy:

Power supply, - SLB132: \_

- SLB136: \_

- SLB136:\_ \_600 mA \_\_ 0.7 W Max. power consumption idle, - SLB132: \_ - SLB136: \_ \_ 0.8 W \_ PC UL94-VO PC UL94-VO Under body:\_ Collar: \_ PA6 UL94-VO

\_max. +60°C

± 10 % \_\_12 ± 15% V DC

\_\_\_\_ min. -15°C

PVC 4x0.25 mm<sup>2</sup>

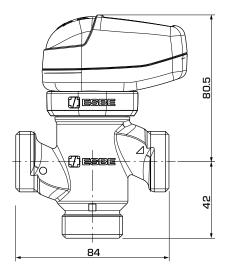
\_ 24 ± 10% V AC/DC

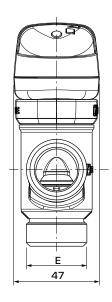
**C €** LVD 2014/35/EU EMC 2014/30/EU RoHS 2011/65/EU PED 2014/68/EU, article 4.3



# **DIVERTING VALVE**

# **SERIES SLB130 SUPERFLOW**





SLB130

## **SERIES SLB132, EXTERNAL THREAD**

Art. No.	Reference	Supply voltage	DN	Kvs*	Connection E	Note	Weight [kg]
On request	SLB132	12V DC	20	12	G 1"		0.51
On request	SLB136	24V AC/DC					0.51

<sup>\*</sup> Kvs-value in diverting mode measured as m³/h at a pressure drop of 1 bar.

### **TECHNICAL DATA, CONTROL SIGNALS**

2-point Control signal	
OFF voltage range:	0.0 - 2.5 V DC
ON voltage range:	
Undefined voltage range:	2.5 - 4.0 V DC
Input resistance:	
PWM* Control signal	
OFF voltage range:	0.0 - 2.5 V DC
ON voltage range:	4.0 - 15.0 V DC
Undefined voltage range:	2.5 - 4.0 V DC
Input resistance:	10 kΩ
Position resolution:	0.1 %
Position accuracy:	± 1.5 %
Timing inaccuracy:	± 3 μs
PWM frequency range:	100 - 4000 Hz
PWM period time:	_ 250 - 10.000 µs
PWM ratio range:	0 - 100 %
PWM ratio proportional band, lower limit:	0-3%
upper limit:	97 - 100 %

Proportional Contr	rol signal	
Input resistance, -	S .	10 kΩ
-	· 20 mA:	475 Ω
Integration time, -	· 10V:	100 ms
-	· 20 mA:	100 ms
Proportional band,	- 10V: lower limit:	0.1 - 0.3V
	upper limit:	8.5 - 10V
	- 20 mA: lower limit:	0.25 - 0.75 mA
	upper limit:	17 - 20 mA

Feedback signal	
Status ON output resistance:	730 Ω
Status OFF output resistance:	30 Ω
Recommended load resistance:	≥ 1.5 kΩ
OFF voltage range:	0.0 - 1.0 V DC
ON voltage range unloaded:	9.2 - 13.8 V DC
ON voltage range @ 1.5 kΩ load:	6.0 - 13.8 V DC



<sup>\* =</sup> Pulse-Width Modulation