

# Flangeable elements with single or double secondary pressure relief valves and anti-cavitation function

# EDCM/EDCMF-VM

**RE 18301-45** Edition: 02.2016

Replaces: 07.2012



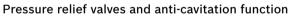
## Description

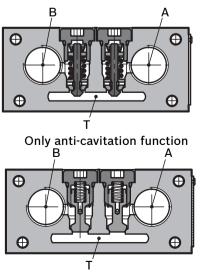
These modular secondary elements can be flange mounted on top of the EDC elements machined with the interfacing surface.

They let through free flow to the A (or B) port until pressure increases and reaches the selected pressure setting; then they release flow into the Tank channels.

The direct acting relief cartridges are designed for quick response and stable pressure control; they also incorporate a reverse flow check for anti-cavitation.

With a body made of zinc plated cast iron, these elements combine secondary pressure relief and dual cross-over, with anti-cavitation function.





# **Technical data**

General						
Weight	kg (lbs)	0.6 (1.3)				
Ambient Temperature	°C (°F)	-20+50 (-4+122) (NBR seals)				
Hydraulic						
Maximum pressure	bar (psi)	310 (4500)				
Maximum flow	l/min (gpm)	30 (7.93)				
Hydraulic fluid General properties: it mu physical lubricating and o properties suitable for us hydraulic systems such a example:	Mineral oil based hydraulic fluids HL (DIN 51524 part 1). Mineral oil based hydraulic fluids HLP (DIN 51524 part 2). For use of environmentally acceptable fluids (vegetable or polyglycol base) please consult us.					
Fluid Temperature	°C (°F)	-20+80 (-4+176) (NBR)				
Permissible degree of fluid contamination		ISO 4572: β <sub>x</sub> ≥75 X=1012 ISO 4406: class 19/17/14 NAS 1638: class 8				
Viscosity range	mm²/s	5420				

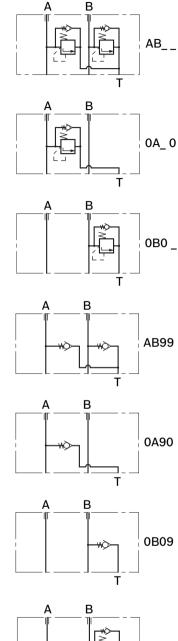
#### Note

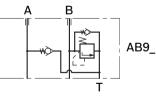
For applications with different specifications consult us

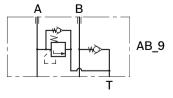
# **Ordering details**

## Symbols

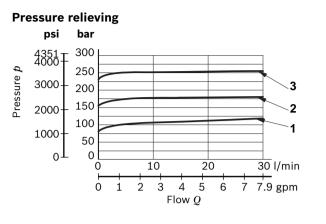
01	(	)2	03	04		)5	06	1		)7		
L	8	85	65					00			0	
Family												
01	Directional Valve										L	
Mode	el											
02	Flangeable element for EDC valves										85	
Туре	2											
03	Flang	geable	elem	ents v	vith se	econda	ary pre	essure	relief		65	
	valves and anti-cavitation function									00		
Confi	Configuration											
04	Cavit	y for o	cartric	lge foi	r both	A and	I В роі	rts			01AB	
	Cavit	y for o	cartric	lge foi	r port	A only	/				010A	
	Cavit	y for o	cartric	lge foi	r port	B only	/				010B	
Cartr	idge f											
05			e setti								АХ	
			at 5 l			(see	table I	below	)			
			e (on	A side	e)						9	
(	idge f											
06			e setti	•				0.	-		АХ	
		_	at 5			(see	table i	below	)			
Dente		sk valv	e (on	B side	2)						9	
Ports			2052							Г	0	
07	G 3/8 DIN 3852										2	
	G 1/2 DIN 3852 3/4" - 16 UNF - SAE8 Machined for interfacing to modular elements										2	
											 M	
	Inder	inica		critaci		mouu		mento				
Α	в	С	D	Е	F	G	н	I	J	К	L	
20	30	40	50	60	70	80	90	100	110	120	130	
bar	bar	bar	bar	bar	bar	bar	bar	bar	bar	bar	bar	
290	435	580	725	870	1015	1160	1305	1450	1595	1740	1885	
psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	
			·					· .				
м	Ν	0	Р	Q	R	S	т	U	V	W	Х	
140	150	160	170	180	190	200	210	220	230	240	250	
bar	bar	bar	bar	bar	bar	bar	bar	bar	bar	bar	bar	
2030	2175	2320	2465	2611	2756	2901	3046	3191	3336	3481	3626	
psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	





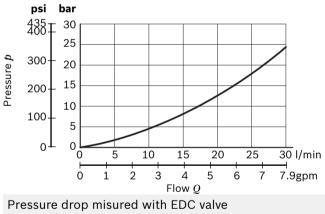


## **Characteristic curves**



Example	Curve no.			
Example of setting 100 bar - 5l/min (1450psi - 1.32gpm)	1			
Example of setting 150 bar - 5l/min (2175psi - 1.32gpm)	2			
Example of setting 250 bar - 5l/min (3626psi - 1.32gpm)	3			

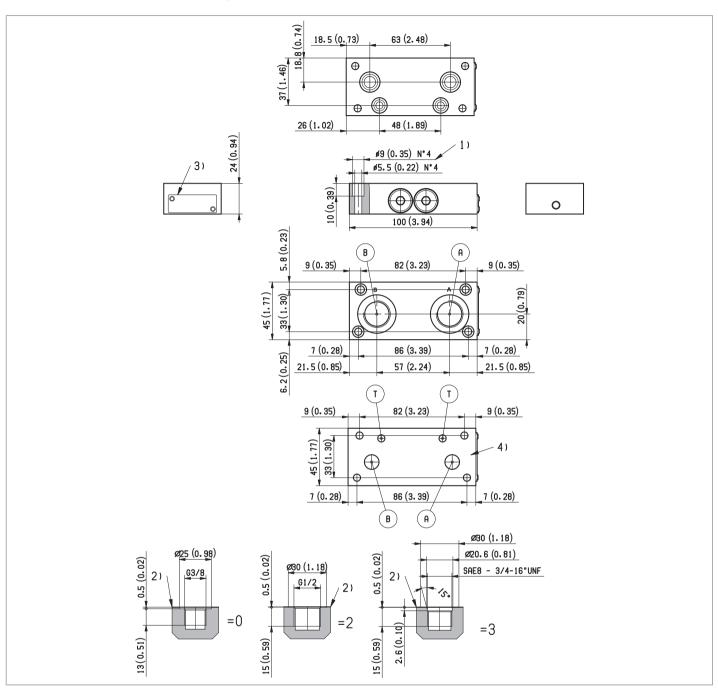
#### Pressure drop (anticavitation)



L8580\_2S9000000M000

Measured with hydraulic fluid ISO-VG32 at 45° ±5 °C (113° ±9 °F); ambient temperature 20 °C (68 °F).

### **External dimensions and fittings**



- **1** Four through holes 5.5mm (0.217 inch) for screws and tightening torques see data sheet RE 18301-90.
- 2 A and B ports.

Bosch Rexroth Oil Control S.p.A.

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- **3** Identification label.
- 4 Machined for interfacing to modular elements (=M ports version).

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Subject to change.