

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

EDCM/EDCMF-VM

RE 18301-45

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Replaces: 07.2012



Description

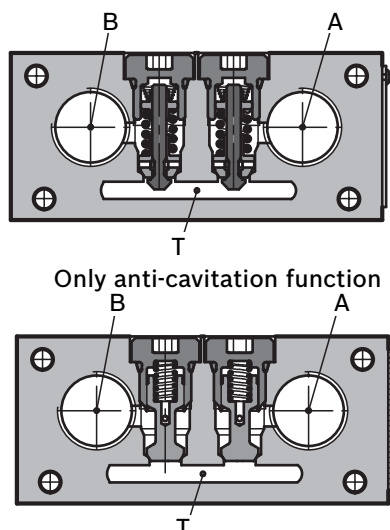
These modular secondary elements can be flange mounted on top of the EDC elements machined with the interfacing surface.

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.

Pressure relief valves and 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	Mineral oil based hydraulic fluids HL (DIN 51524 part 1).	
General properties: it must have physical lubricating and chemical properties suitable for use in hydraulic systems such as, for example:	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: $\beta_{x \geq 75} X = 10 \dots 12$ ISO 4406: class 19/17/14 NAS 1638: class 8	
Viscosity range	mm ² /s	5....420

Note

For applications with different specifications consult us

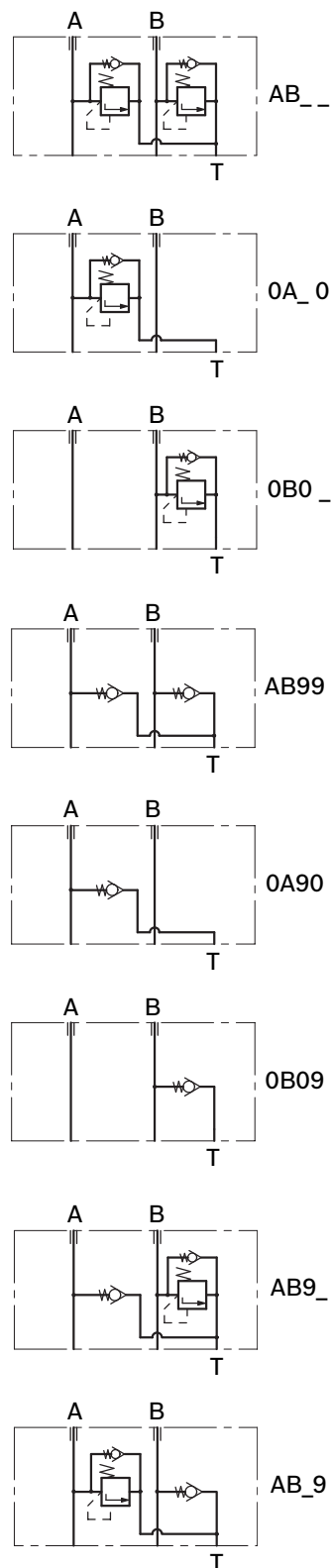
Ordering details

01	02	03	04	05	06	07
L	85	65			00	0
Family						
01	Directional Valve					L
Model						
02	Flangeable element for EDC valves					85
Type						
03	Flangeable elements with secondary pressure relief valves and anti-cavitation function					65
Configuration						
04	Cavity for cartridge for both A and B ports					01AB
	Cavity for cartridge for port A only					010A
	Cavity for cartridge for port B only					010B
Cartridge for A side						
05	Relief valve setting A side Q = 5 l/min (1.3gpm) Ex. Setting at 5 l/min 20 bar (see table below)					A...X
	Check valve (on A side)					9
Cartridge for B side						
06	Relief valve setting A side Q = 5 l/min (1.3gpm) Ex. Setting at 5 l/min 20 bar (see table below)					A...X
	Check valve (on B side)					9
Ports						
07	G 3/8 DIN 3852					0
	G 1/2 DIN 3852					2
	3/4" - 16 UNF - SAE8					3
	Machined for interfacing to modular elements					M

A	B	C	D	E	F	G	H	I	J	K	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

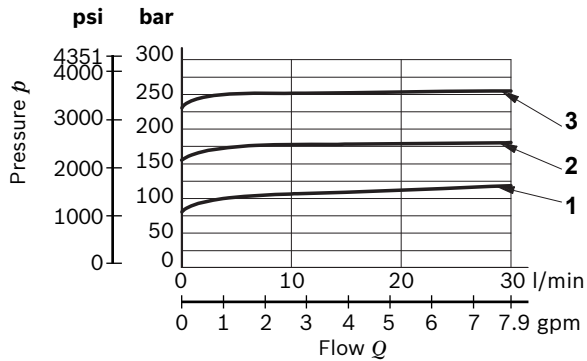
M	N	O	P	Q	R	S	T	U	V	W	X
140	150	160	170	180	190	200	210	220	230	240	250
bar	bar	bar	bar	bar	bar	bar	bar	bar	bar	bar	bar
2030	2175	2320	2465	2611	2756	2901	3046	3191	3336	3481	3626
psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi

Symbols



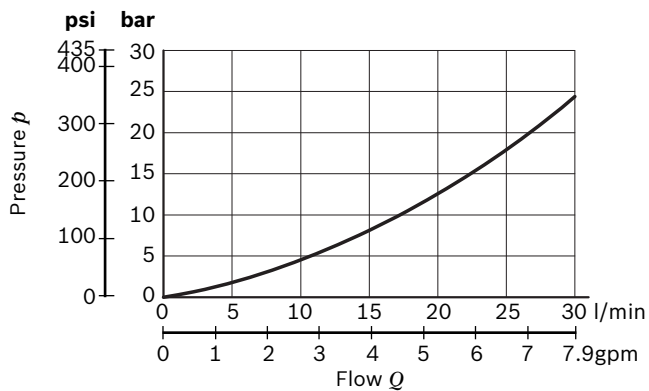
Characteristic curves

Pressure relieving



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

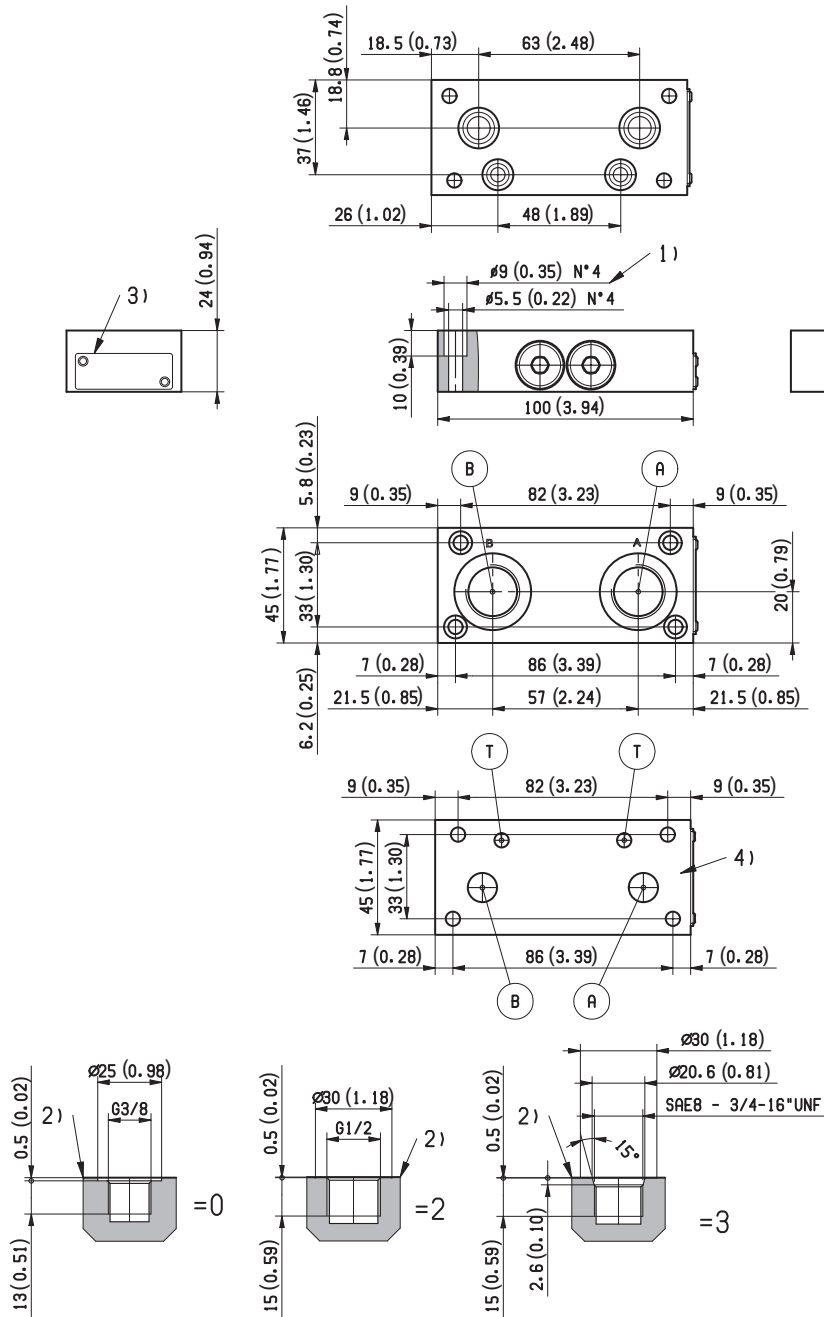
Pressure drop (anticavitation)



Pressure drop misured with EDC valve
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.

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

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