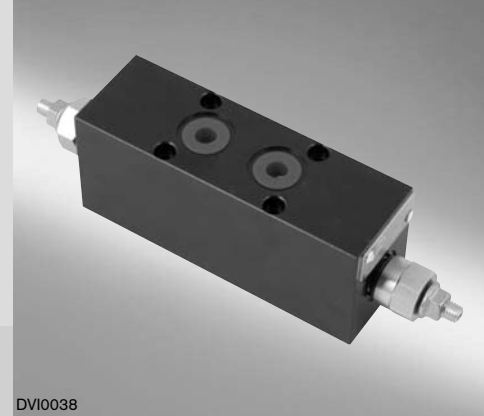
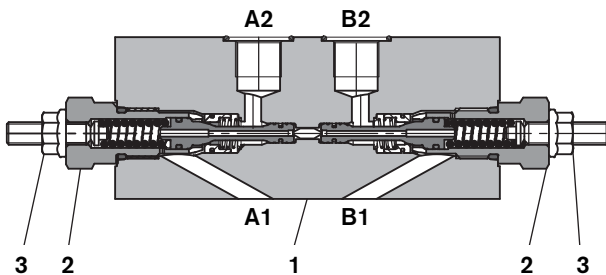


Flangeable elements with Cross Piloted Counterbalance Valves

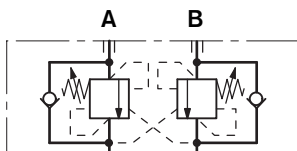
EDM-VB



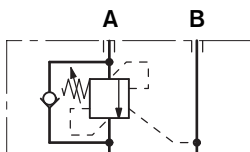
DVI0038



HYDRAULIC - SYMBOL



02 AB



02 0A

Description

The secondary flangeable elements EDM-VB-__ can be interfaced and bolted on top of the A and B ports of the ED elements of the Directional Valve Assembly.

They incorporate one or two Cross Piloted Counterbalance Valves which allow free flow toward the A and B outlet ports, and lock in a leak free mode the flow returning from the actuator. Pilot pressure in the opposite line reduces the pressure setting of the counterbalance valve in proportion to the pilot ratio (4:1) until opening and allowing the flow return from the actuator. The pressure setting should be at least 1,3 times the highest expected load. Depending on the version selected (01AB, 02AB, 010A, 020A, 010B, or 020B), the counterbalance function can be double-acting or single-acting, upstream or downstream, in both A and B ports, or in A port only, or in B port only (see hydraulic symbols).

The body of the EDM-VB elements is made of Black Anodized Aluminium. Hydraulic Ports A and B are size G 3/8.

Technical Data (for applications outside these parameters, please consult us)

General

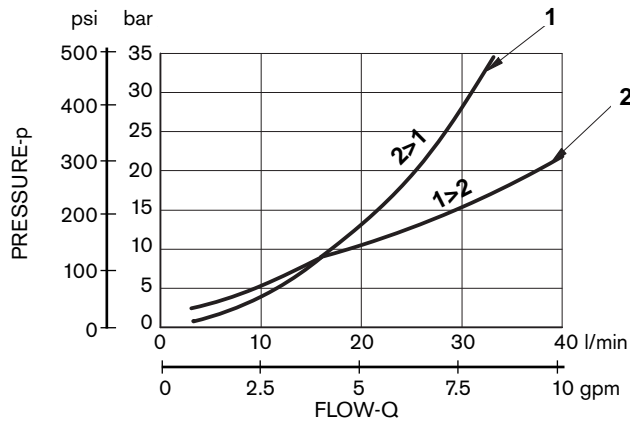
Weight of manifold, with two counterbalance valves EDM-VB-AB	kg [lbs]	1.2 [2.65]
Weight of manifold, with one counterbalance valve EDM-VB-0A	kg [lbs]	1.02 [2.24]
Ambient Temperature	°C [°F]	-20....+50 [-4....+120]

Hydraulic

Maximum pressure	bar [psi]	250 [3625]
Maximum flow	l/min [gpm]	40 [10.5]
Pilot Ratio		4,1 : 1
Hydraulic fluid		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 seals)
Permissible degree of fluid contamination		ISO 4572: $\beta_x \geq 75$ X=10...12 ISO 4406: class 19/17/14 NAS 1638: class 8
Viscosity range	mm ² /s	5....420

Characteristic curves

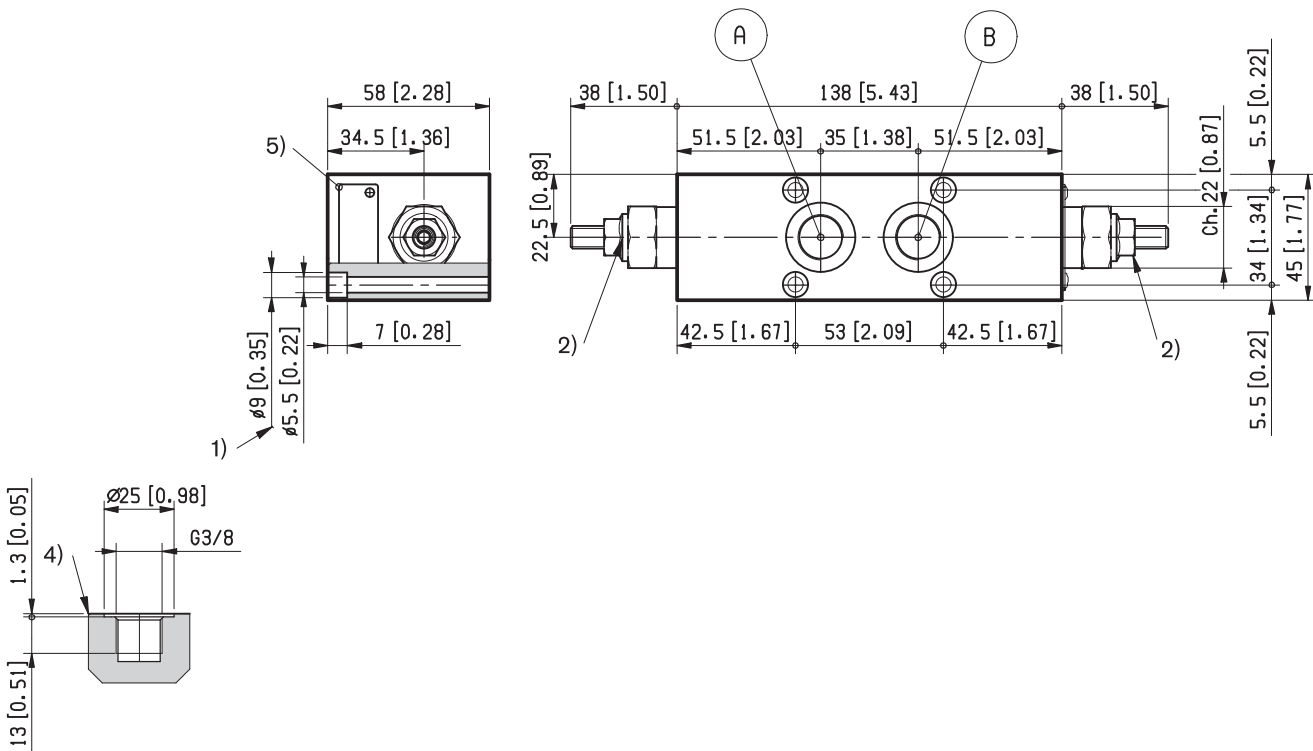
Measured with hydraulic fluid ISO-VG32 at $45^{\circ} \pm 5^{\circ} \text{ C}$ [$113^{\circ} \pm 9^{\circ} \text{ F}$]; ambient temperature 20° C [68° F].



- 1 Pressure drop fully piloted.
- 2 Pressure drop through check valve.

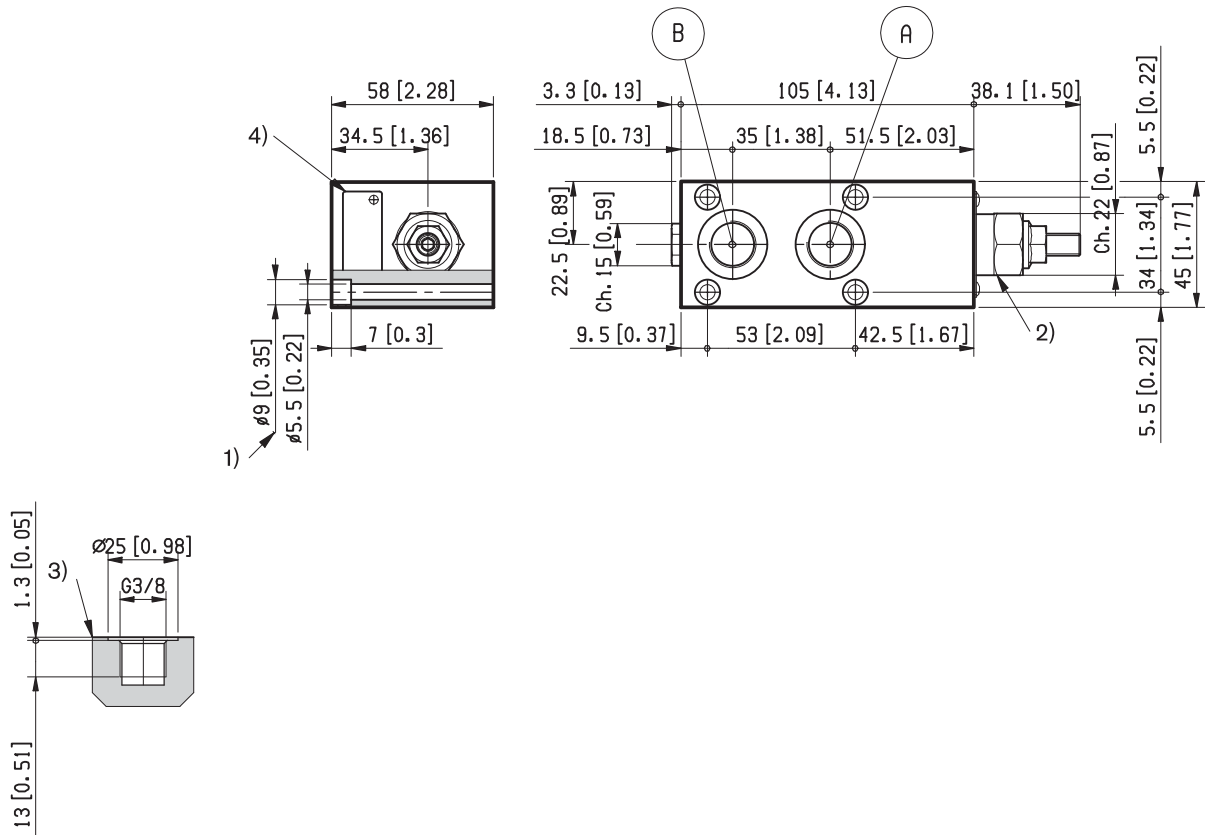
External Dimensions and Fittings

L8835020AB _ _



External Dimensions and Fittings

L8835020A _ _



1 Four through holes \varnothing 5.5 mm [0.217 inch] for screws and tightening torques see data sheet RE 18301-90.
 2 Counterbalance valve with screw type adjustment.

3 A1 and B1 ports for the actuator.
 4 Identification label

Ordering Details

L	88	35	_ _ _ _	35	00	0	0
Family Directional Valve element ED							
Model Flangeable element secondary valve							
Type Cross Piloted Counterbalance Valves							
Configuration Counterbalance Valves for both A and B ports = 02AB Counterbalance Valve for port A only = 020A							
						Ports 0 = G 3/8 DIN 3852 1** = 9/16-18 UNF 2-B (SAE 6)	
							* Counterbalance pressure range 100-250bar [1440-3626 psi]

* Configuration 02AB with fixed spring setting (160 bar [2300 psi] or 210 bar [3000 psi] or 250 bar [3600 psi]) available on request.

** Available only for configuration 02AB

