

**AIVIO**

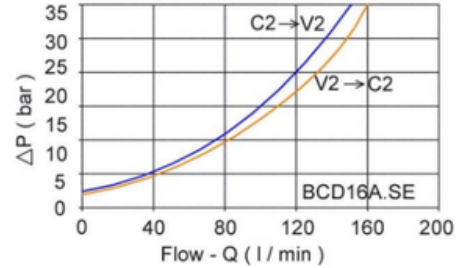
**OVERCENTER VALVE**



**Max. working pressure: 250 bar**  
**Max. holding pressure: 400 bar**  
**Material: Steel**

**Pressure Drop Curves**

( Oil temperature : 50° C, Oil viscosity: 30 cSt )



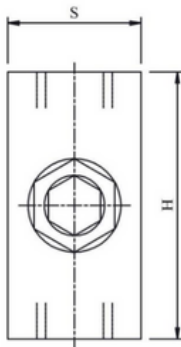
**Materials and Features:**

Body: zinc plate steel  
 Internal parts: hardened and ground steel  
 Seals: BUNA N standard  
 Tightness: minor leakage  
 Standard setting: 320 bar  
 Valve setting must be at least 1.3 times more than load pressure in order to enable the valve to close even when undergone to the maximum load pressure.

**Application:**

Connect V1 and V2 to the pressure flow, C1 to the free flow side of the actuator and C2 to the actuator's side you want the flow to be blocked.

**In line mounting**



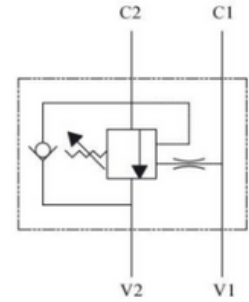
**Use and Operation:**

The valves are used to control actuator's movement and block in one direction in order to enable the following functions.

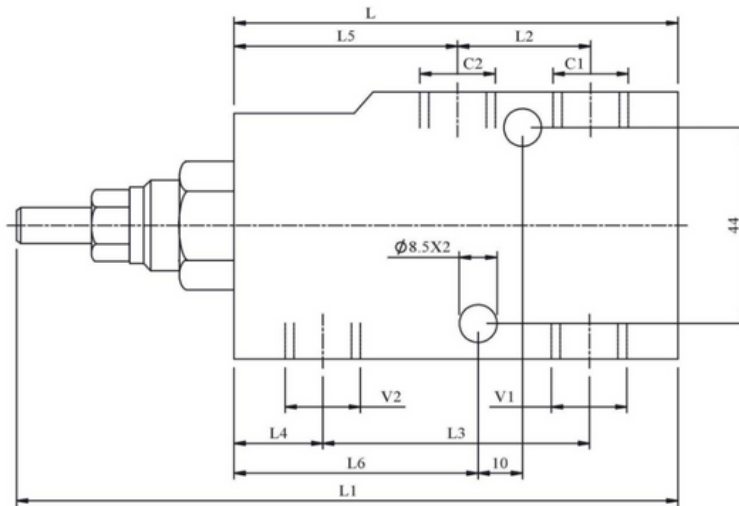
- Under control descent of a load: load's weight doesn't carry it away as the valve prevents any cavitations of the actuator;
- Limited maximum pressure in case of shocks created by loads, overloads or sudden manoeuvring (load control with opened center distributor).

The A type is different in the connections position and the pilot ratio.

**Oil circuitry**



**Internal Pilot**



TYPE	V-V1 (BSPP)	Flow rate (L/min)	L (mm.)	L1 (mm.)	L2 (mm.)	L3 (mm.)	L4 (mm.)	L5 (mm.)	L6 (mm.)	H (mm.)	S (mm.)	Pilot Ratio	Approx.Wt. (kg.)
BCD06A.SE	3/8"	40	100	149	30	60	20	50	55	60	30	1: 4.5	1.196
BCD08A.SE	1/2"	60	100	149	35	65	20	50	57.5	60	30	1: 4.5	1.256
BCD12A.SE	3/4"	95	127	192	45	85	23.5	62.5	75	80	35	1: 5.5	2.372
BCD16A.SE	1"	165	165	212	70	116	26	72	107	90	50	1: 6.2	5.520

## AIVIO

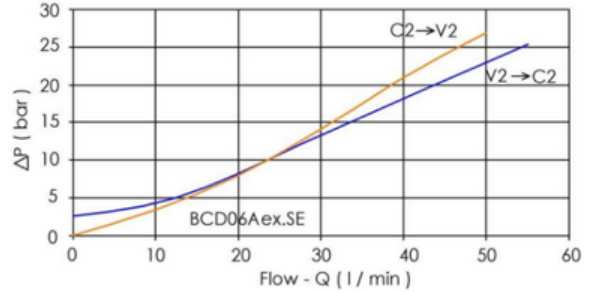
### OVERCENTER VALVE



**Max. working pressure: 250 bar**  
**Max. holding pressure: 400 bar**  
**Material: Steel**

#### Pressure Drop Curves

( Oil temperature : 50° C, Oil viscosity: 30 cSt )



#### Materials and Features:

- Body: zinc plate steel
- Internal parts: hardened and ground steel
- Seals: BUNA N standard
- Tightness: minor leakage
- Standard setting: 320 bar

Valve setting must be at least 1.3 times more than load pressure in order to enable the valve to close even when undergone to the maximum load pressure.

#### Application:

Connect V2 to the pressure flow, C2 to the actuator's side to be controlled and pilot to the pilot pressure.

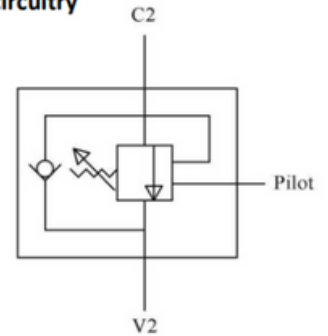
#### Use and Operation:

The valves are used to control actuator's movement and block in one direction in order to enable the following functions.

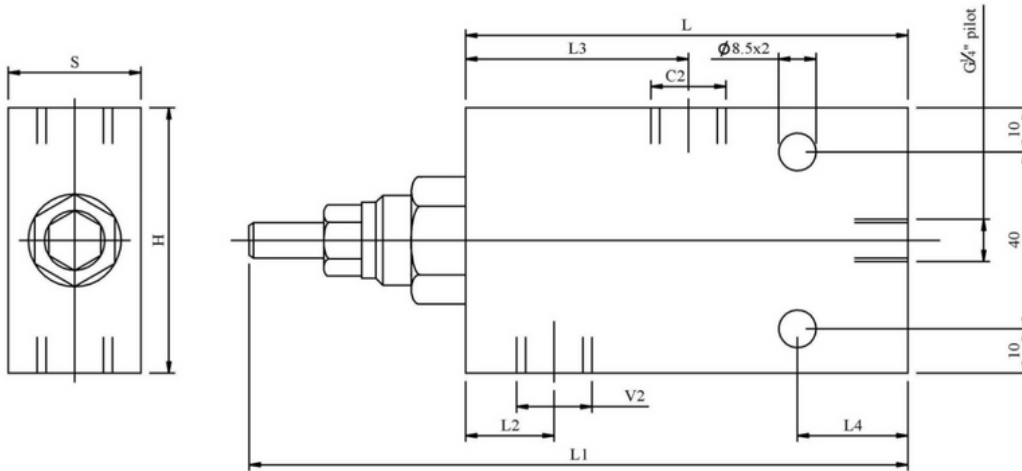
- Under control descent of a load: load's weight doesn't carry it away as the valve prevents any cavitations of the actuator;
- Limited maximum pressure in case of shocks created by loads, overloads or sudden manoeuvring (load control with opened center distributor).

The A type is different in the connections position and the pilot ratio.

#### Oil circuitry



#### External Pilot



TYPE	V-V1 (BSPP)	Flow rate (L/min)	L (mm.)	L1 (mm.)	L2 (mm.)	L3 (mm.)	L4 (mm.)	L5 (mm.)	L6 (mm.)	H (mm.)	S (mm.)	Pilot Ratio	Approx. Wt. (kg.)
BCD06Aex.SE	3/8"	40	100	149	20	50	25	50	55	60	30	1: 4	1.338
BCD08Aex.SE	1/2"	60	100	149	20	50	20	5	57.5	60	30	1: 4	1.306

## AIVIO

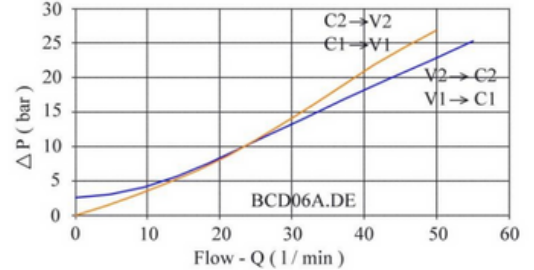
### DOUBLE OVERCENTER VALVE



**Maximum load holding pressure: 350 bar**

**Material: Steel**

Pressure Drop Curves  
(Oil temperature : 50° C, Oil viscosity: 30 cSt)



#### Materials and Features:

- Body: zinc plate steel
- Internal parts: hardened and ground steel
- Seals: BUNA N standard
- Tightness: minor leakage
- Standard setting: 320 bar

Valve setting must be at least 1.3 times more than load pressure in order to enable the valve to close even when undergone to the maximum load pressure.

#### APPLICATIONS:

Connect V1 and V2 to the pressure flow, C1 & C2 to the actuator to be controlled. In-line mounting.

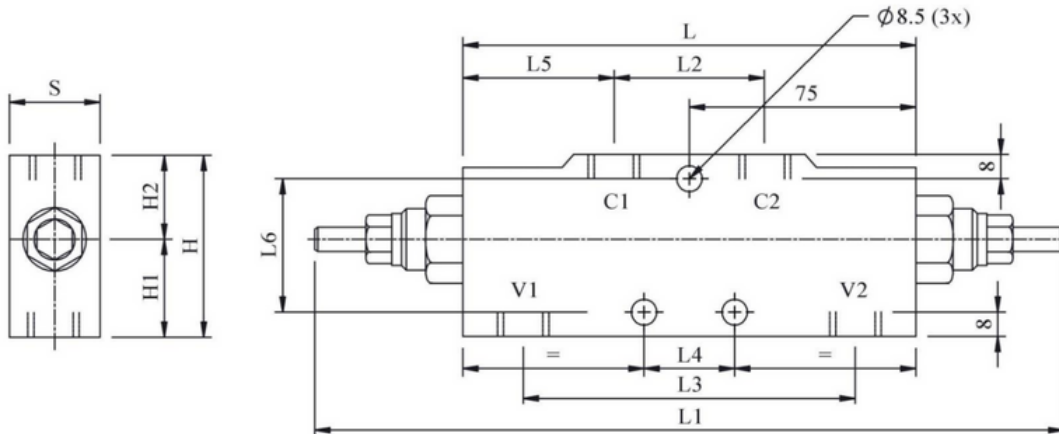
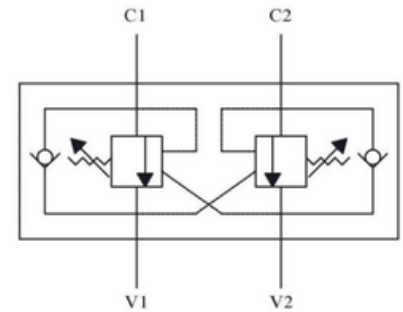
#### Use and Operation:

The valves are used to control actuator's movement and block in one direction in order to enable the following functions.

- Under control descent of a load: load's weight doesn't carry it away as the valve prevents any cavitations of the actuator;
- Limited maximum pressure in case of shocks created by loads, overloads or sudden manoeuvring (load control with opened center distributor).

The A type is different in the connections position and the pilot ratio.

#### Oil circuitry



TYPE	V1-V2 (BSPP)	C1-C2 (BSPP)	Flow rate (L/min)	L (mm.)	L1 (mm.)	L2 (mm.)	L3 (mm.)	L4 (mm.)	L5 (mm.)	L6 (mm.)	H (mm.)	S (mm.)	Pilot Ratio	Approx.Wt. (kg.)
BCD06A.DE	3/8"	3/8"	40	100	248	50	110	30	50	44	60	30	1: 4.5	1.944
BCD08A.DE	1/2"	1/2"	60	150	248	50	110	30	50	44	60	30	1: 4.5	1.886
BCD12A.DE	3/4"	3/4"	95	190	320	65	143	44	62.5	64	80	35	1: 5.5	3.82
BCD16A.DE	1"	1"	165	210	304	66	158	190	72	-	90	50	1: 6.2	7.120