

HYDRAULIC VALVES



FLEXEQUIP




DINATALE
BERTELLI SPA

PARTNERS

INTRODUCTION

MONOBLOCK VALVES, BALL VALVES, CHECK VALVES, HOSE BURST VALVES, END OF STROKE VALVES FROM DISTAG QCS.

Distag's new range of Hydraulic Valves is ever-expanding to meet our customers demands. Our growth into this range has been driven by customer demand to add valves & motors into hydraulic kits, allowing us to become a one-stop solution for the hydraulic systems of various machines.

Take a look through our service offerings;

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MONOBLOCK VALVES

INTRODUCTION

MONOBLOCK VALVE

Directional control valves are one of the core elements in a hydraulic circuit. They help to direct the fluid to different components in the system. Distag provides monoblock, sectional, solenoid-operated spool-type control valves with different flow capacities and spool options.

OUR RANGE FEATURES

VP40 -

3/8" MONOBLOCK VALVE UP TO 7 LEVERS.

VP80 -

1/2" MONOBLOCK VALVE UP TO 6 LEVERS.

VP81 -

1/2" LOG SPLITTER VALVE

VP81RS -

1/2" LOG SPLITTER VALVE (WITH HIGH SPEED)

VPC70 -

1/2" SECTIONAL VALVE UP TO 8 LEVERS
(ENQUIRE WITH SALES TEAM)

SD14 -

3/4" MONOBLOCK VALVE WITH SINGLE LEVER



VP40 SERIES MONOBLOCK VALVES- 40 LITRE/MIN.

Monoblock valves from one lever up to 7 levers 3/8" BSP, 40 l/min double-acting 3 position spring return with the option of different spool types and accessories.

Thanks to numerous options and solutions, VP40 is a very flexible and versatile product. The distributor can be configured with manual, cable, direct electric, hydraulic, pneumatic, electro-hydraulic and electro-pneumatic controls. Perfect for various agricultural applications, earthmoving, lifting and transport machinery and industrial vehicles.

FLOW RATE

40LPM

MAX PRESSURE

Max.Pressure:

P:315 bar,T:50 bar,A-B:300 bar

Max Back Pressure -T: 50 bar



PORTS

Ports A & B: 3/8 BSP

Ports P: 1/2 BSP

SPOOLS

Number of spools: 1 to 7

Standard spool is open centre with spring return.

Different spool configurations available.

Working Fluid: Mineral-based hydraulic oil.

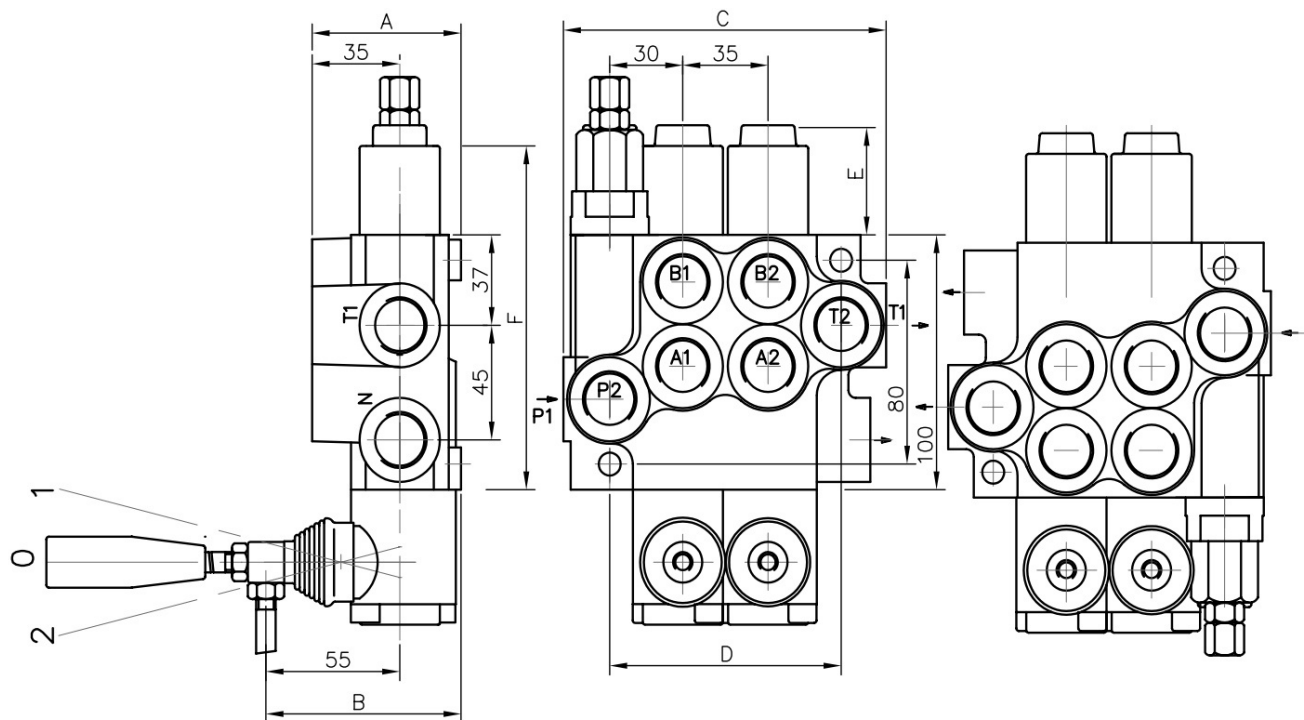
VP40 SERIES MONOBLOCK DIRECTIONAL CONTROL VALVES 3/8" BSP (40 LPM)					
PART No.	Spool	Dimension			
		A	B	C	D
VP40-1D-06	1	60	80	85	60
VP40-2DD-06	2	60	80	129	97
VP40-3DDD-06	3	60	80	164	132
VP40-4DDDD-06	4	60	80	199	167
VP40-5DDDDD-06	5	60	80	234	202
VP40-6DDDDDD-06	6	60	80	269	237
VP40-7DDDDDDD-06	7	60	80	304	272

Code	Ports (Threads)			
	P	A : B	T	N
6	G1/2	G3/8	G1/2	G1/2
7	M22x1.5	M18x1.5	M22x1.5	M22x1.5

VP40	1	D	6
Monoblock 40 LPM	Number of Spools (Table 1)	Spool type (Table 2)	Port Thread (Table3)



VP40 SERIES MONOBLOCK VALVES- 40 LITRE/MIN.



CODE	SPOOL TYPE	POS.1	POS.2	POS.3
D		$P \rightarrow B$ $A \rightarrow T$ $BP \rightarrow$	$P \rightarrow T$ $A \rightarrow B$ $BP \rightarrow$	$P \rightarrow A$ $B \rightarrow T$ $BP \rightarrow$
M		$P \rightarrow B$ $A \rightarrow T$ $BP \rightarrow$	$A, B \rightarrow T$ $P \rightarrow$ $BP \rightarrow$	$P \rightarrow A$ $B \rightarrow T$ $BP \rightarrow$
S		$A \rightarrow T$ $P, B \rightarrow$ $BP \rightarrow$	$P \rightarrow T$ $A \rightarrow B$ $BP \rightarrow$	$P \rightarrow A$ $B, T \rightarrow$ $BP \rightarrow$



VP80 SERIES MONOBLOCK VALVES- 80 LITRE/MIN.

Monoblock valves from one lever up to 6 levers 1/2" BSP, 80 l/min double-acting 3 position spring return with the option of different spool types and accessories.

Thanks to numerous options and solutions, VP80 is a very flexible and versatile product. The distributor can be configured with manual, cable, direct electric, hydraulic, pneumatic, electro-hydraulic and electro-pneumatic controls. Perfect for various agricultural applications, earthmoving, lifting and transport machinery and industrial vehicles.



FLOW RATE

80LPM

MAX PRESSURE

Max.Pressure:

P:315 bar,T:50 bar,A-B:300 bar

Max Back Pressure -T: 50 bar

PORTS

Ports P, A & B: 1/2 BSP

SPOOLS

Number of spools: 1 to 6

Standard spool is open centre with spring return. Different spool configurations available.

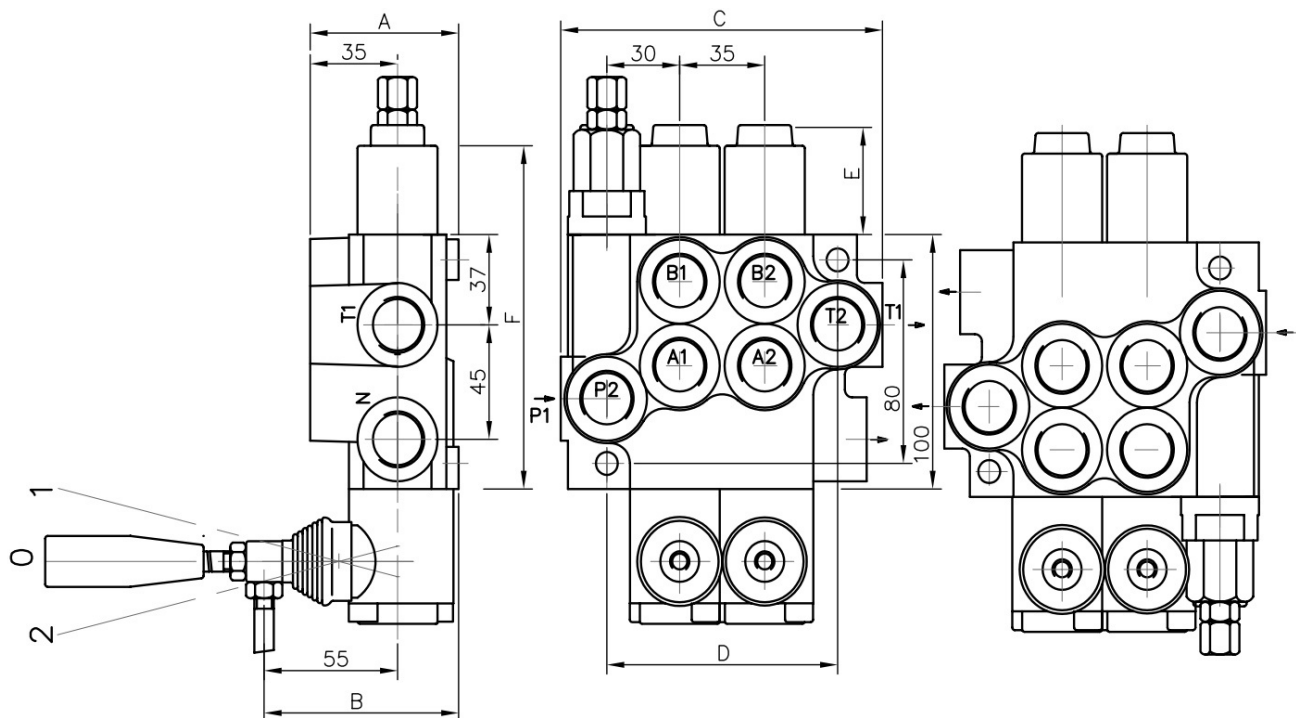
Working Fluid: Mineral-based hydraulic oil.

VP80 SERIES MONOBLOCK DIRECTIONAL CONTROL VALVES 1/2" BSP (80 LPM)					
PART No.	Spool	Dimension			
		A	B	C	D
VP80-1D-08	1	65	79	107	65
VP80-2DD-08	2	80	94	160	103
VP80-3DDD-08	3	80	94	198	141
VP80-4DDDD-08	4	80	94	242	179
VP80-5DDDDD-08	5	80	94	280	217
VP80-6DDDDDD-08	6	80	94	318	255

VP80	1	D	6	
Monoblock 80 LPM	Number of Spools (Table 1)	Spool type (Table 2)	Port Thread (Table3)	
Code	Ports (Threads)			
	P	A : B	T	N
6	G1/2	G1/2	G3/4	G3/4
7	M22x1.5	M18x1.5	M22x1.5	M22x1.5



VP80 SERIES MONOBLOCK VALVES- 80 LITRE/MIN.



CODE	SPOOL TYPE	POS.1	POS.2	POS.3
D		$P \rightarrow B$ $A \rightarrow T$ $BP \rightarrow$	$P \rightarrow T$ $A \rightarrow B$ $BP \rightarrow$	$P \rightarrow A$ $B \rightarrow T$ $BP \rightarrow$
M		$P \rightarrow B$ $A \rightarrow T$ $BP \rightarrow$	$A, B \rightarrow T$ $P \rightarrow$ $BP \rightarrow$	$P \rightarrow A$ $B \rightarrow T$ $BP \rightarrow$
S		$A \rightarrow T$ $P, B \rightarrow$ $BP \rightarrow$	$P \rightarrow T$ $A \rightarrow B$ $BP \rightarrow$	$P \rightarrow A$ $B, T \rightarrow$ $BP \rightarrow$



VP81 LOG SPLITTER VALVE

Monoblock valve designed for log splitter application with an automatic kickback to neutral when cylinder completes stroke. VP81 RS features an extremely fast “rapid extend” high-speed mode.

The VP81 is an on/off directional control mono-block valve and is designed as a log splitter valve. It is directing the working fluid between hydraulic pumps and consumers (hydraulic cylinders, motors, etc.) and the tank. It has a spring centred in one direction and pressure released detent in the other direction. Automatically kicks back to neutral when cylinder completes stroke. The VP81 also includes built-in adjustable inlet relief valve.

FLOW RATE

80LPM

MAX PRESSURE

Max. Pressure:

P: 250 bar, T: 10 bar, A-B: 300 bar Max

Back Pressure -T: 10 bar

PORTS

Ports A & B: 1/2 BSP

Ports P: 3/4 BSP

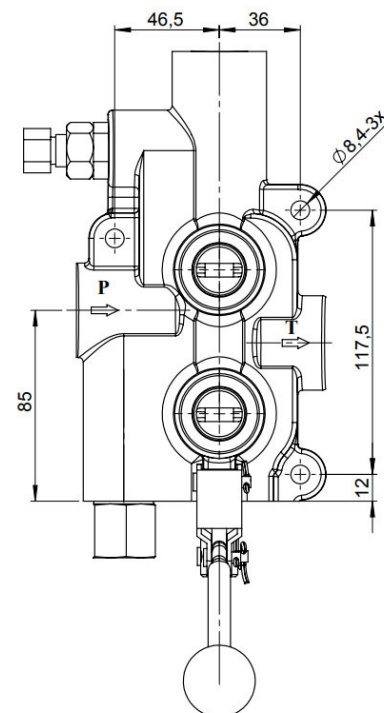
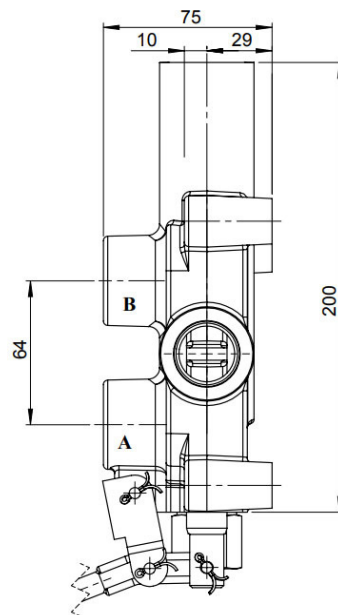
SPOOLS

Number of spools: Single Lever

Standard spool is open centre

Working Fluid: Mineral-based hydraulic oil

Part number : VP81 RS-G-08



Part Number	Spool
VP81-1D-08	1

STANDARD FEATURES

- Hydraulically balanced, hard chrome plated spool.
- Lever system in which the handle can be installed in up or down position.
- Pressure release detent on retract.
- Nominal flow-16 l/min extends the flow up to 80l/min.
- Manual shift from high-speed mode to high force mode.
- Spring centre 4 position spool with soft stop.





VP81 LOG SPLITTER VALVE

PRESSURE RELEASE DETENT

This feature provides a pressure release detent for the spool “out” (handle in) position. When the spool is manually placed in the detent position oil is directed to the “B” work port (the port away from the handle). When the pressure in the “B” port reaches a preset level the detent will release and the spool will centre. The factory setting is 70 bar. The detent release pressure is adjustable by loosening the jam nut. Turning the adjusting screw clockwise will increase the detent release pressure and counterclockwise will decrease the pressure. NOTE: If the detent release pressure is adjusted too high the spool will not centre, if the pressure is too low the detent will not hold.

LEVER SYSTEM

The lever system can be turned “up” or “down” depending on the location of the valve on the machine. It is done by simply rotating the lever on 180 degrees with respect to its own axis. All pins are locked to the position by the use of cotter pins

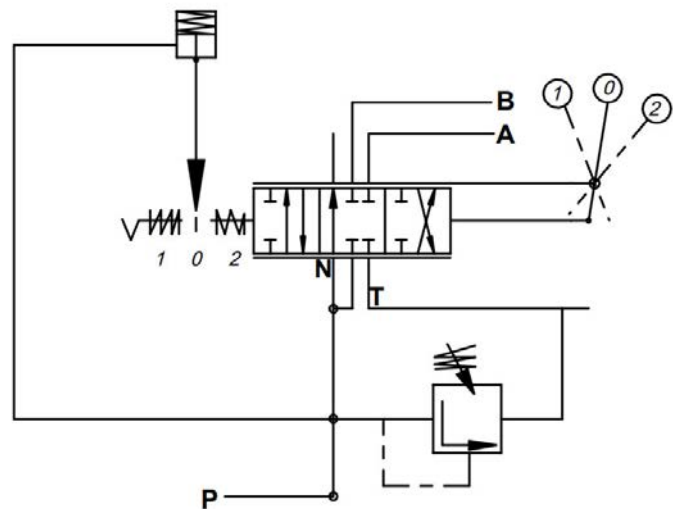
ADJUSTABLE SPRING RELIEF VALVE

The standard factory setting is 150 bar. Other settings can be specified. The relief valve is adjusted by removing the acorn nut (6) and turning the adjusting screw (4). Turning the adjusting screw clockwise will increase the pressure and counter clockwise will decrease the pressure.

VP81	1D		8
Log Splitter Monoblock 80 LPM	Spool Type (A)	Spool detent	Port Thread

CODE	SPOOL TYPE
A	

Code	Ports (Threads)		
	P	A : B	T
G-08	G3/4	G1/2	G3/4
N-08	3/4-14 NPTF	1/2-12 NPTF	3/4-14 NPTF





VP81RS LOG SPLITTER VALVE

(WITH HIGH-SPEED MODE)

Monoblock valve designed for log splitter application with an automatic kickback to neutral when cylinder completes stroke. P81 RS features an extremely fast “rapid extend” high-speed mode.

The VP81 Rs is a log splitter valve-like its earlier version VP81 A2, but now it features an extremely fast “rapid extend” high-speed mode. The VP81 Rs has been specifically designed to reduce system cost by allowing a single-stage pump to be used in systems currently using two-stage (hi-low) pumps. When extra force is required the VP81 Rs allows the user to manually shift from high-speed mode to high force mode. A “soft stop” differentiates between high force and high-speed modes.

FLOW RATE

80LPM

MAX PRESSURE

Max.Pressure:

P:250 bar, T: 10 bar, A-B: 300 bar Max

Back Pressure -T: 10 bar

PORTS

Ports A & B: 1/2 BSP

Ports P: 3/4 BSP

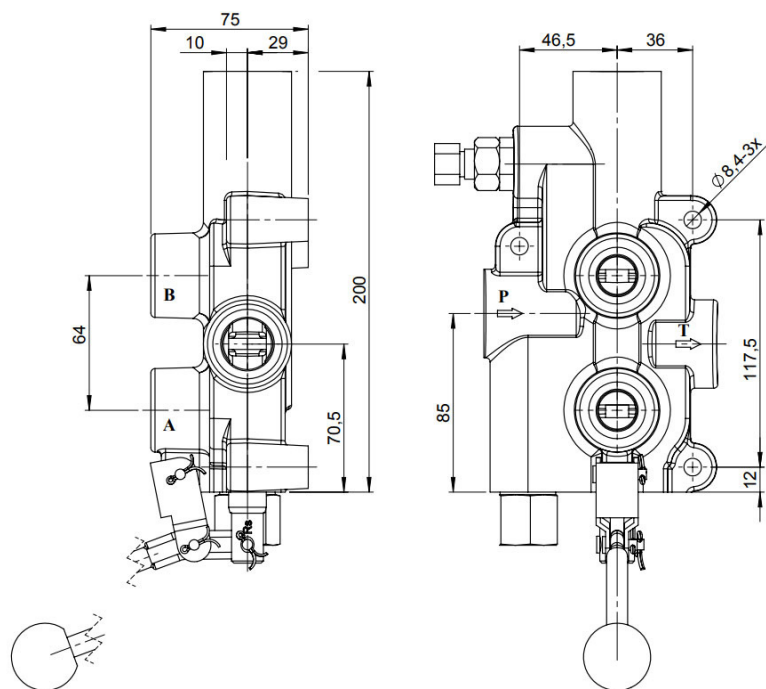
SPOOLS

Number of spools: Single Lever

Standard spool is open centre

Working Fluid: Mineral-based hydraulic oil

Part number: VP81 RS-G-08



Part Number	Spool
VP81-1RS-08-HS	1

STANDARD FEATURES

- Hydraulically balanced, hard chrome plated spool.
- Lever system in which the handle can be installed in up or down position.
- Pressure release detent on retract.
- Nominal flow-16 l/min extends the flow up to 80l/min.
- Manual shift from high-speed mode to high force mode.
- Spring centre 4 position spool with soft stop.





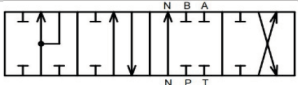
VP81RS LOG SPLITTER VALVE

(WITH HIGH-SPEED MODE)

PRESSURE RELEASE DETENT

This feature provides a pressure release detent for the spool "out" (handle in) position. When the spool is manually placed in the detent position oil is directed to the "B" work port (the port away from the handle). When the pressure in the "B" port reaches a preset level the detent will release and the spool will centre. The factory setting is 70 bar. The detent release pressure is adjustable by loosening the jam nut. Turning the adjusting screw clockwise will increase the detent release pressure and counterclockwise will decrease the pressure. NOTE: If the detent release pressure is adjusted too high the spool will not centre, if the pressure is too low the detent will not hold.

VP81	1RS	8	HS
Log Splitter Monoblock 80 LPM	Spool Type (RS)	Port Thread	High Speed

CODE	SPOOL TYPE	DESCRIPTION
RS		Spool RS (Regenerative) with closed working ports and open bypass channel

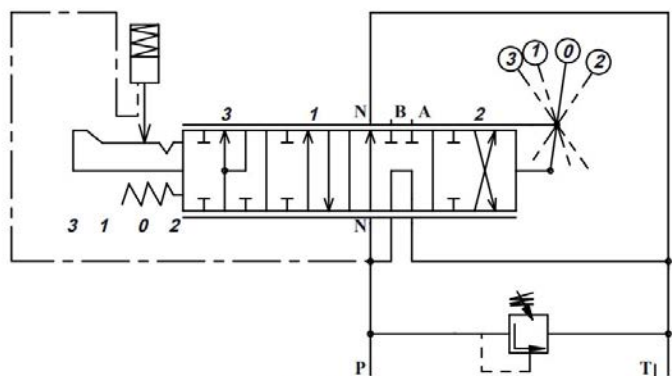
Code	Ports (Threads)		
	P	A : B	T
G-08	G3/4	G1/2	G3/4
N-08	3/4-14 NPTF	1/2-12 NPTF	3/4-14 NPTF

LEVER SYSTEM

The lever system can be turned "up" or "down" depending on the location of the valve on the machine. It is done by simply rotating the lever on 180 degrees with respect to its own axis. All pins are locked to the position by the use of cotter pins.

ADJUSTABLE SPRING RELIEF VALVE

The standard factory setting is 150 bar. Other settings can be specified. The relief valve is adjusted by removing the acorn nut (6) and turning the adjusting screw (4). Turning the adjusting screw clockwise will increase the pressure and counter clockwise will decrease the pressure.



Stroke to pos. 2 (pull) - 8,5 mm
Stroke to pos. 1 (push) - 5,5 mm "High force mode"
Stroke to pos. 3 (push) - 5,5 + 5 mm "High speed mode"



AVAILABLE FOR VP40 & VP80 SERIES-

CARRY OVER



DETENT



END CAP



JOYSTICK



LEVER RUBBER



LEVER SYSTEM



PNEUMATIC





SD14 SERIES MONOBLOCK VALVES- 120 LITRE/MIN.

Monoblock valves with a light weight and compact structure and large flow rate up to 120l/min. The valve is widely used in construction machinery, sanitation machinery, mining machinery and hydraulic system of other machinery.

FEATURES

- Simple, compact designed, this valves is single section for open centre and closed centre hydraulic systems.
- Fitted with a main pressure relief valve.
- Diameter 20mm / 0.79" interchangeable spools.
- Available manual, pneumatic, electro--hydraulic and remote with flexible cable spool control kits.

MAX PRESSURE

Max. Pressure: 250 bar
Nom. Pressure: 200 bar
Back Pressure: <10 bar

PORTS

Ports A & B: 3/4 BSP
Ports P & T: 3/4 BSP

FLOW RATE

120LPM

SPOOLS

Number of spools: 1



PARAMETERS

Nom. Pressure (MPa)	Max. Pressure (MPa)	Nom. Flow Rate (L/min)	Max. Flow Rate (L/min)	Back Pressure (MPa)	Hydraulic Oil		
					Temp. Range (°C)	Visc. Range (mm ² /S)	Filtration (um)
20	25	120	120	≤1	-20 ~ +80	10 ~ 400	≤10



SD14 SERIES MONOBLOCK VALVES-

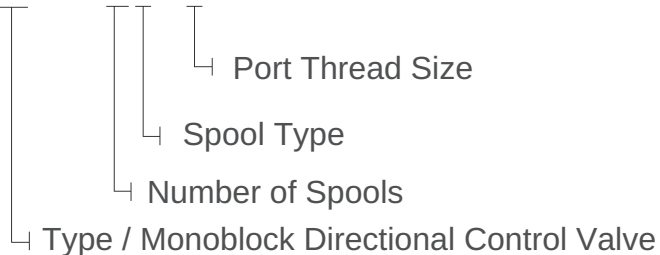
120 LITRE/MIN.

MODEL CODE

VSD14	1	D	12
Monoblock 120 LPM	Number of spools	Spool type	Port Threads

Part number	Spool
VSD14-1D-12	1

VSD14 - 1 D -12



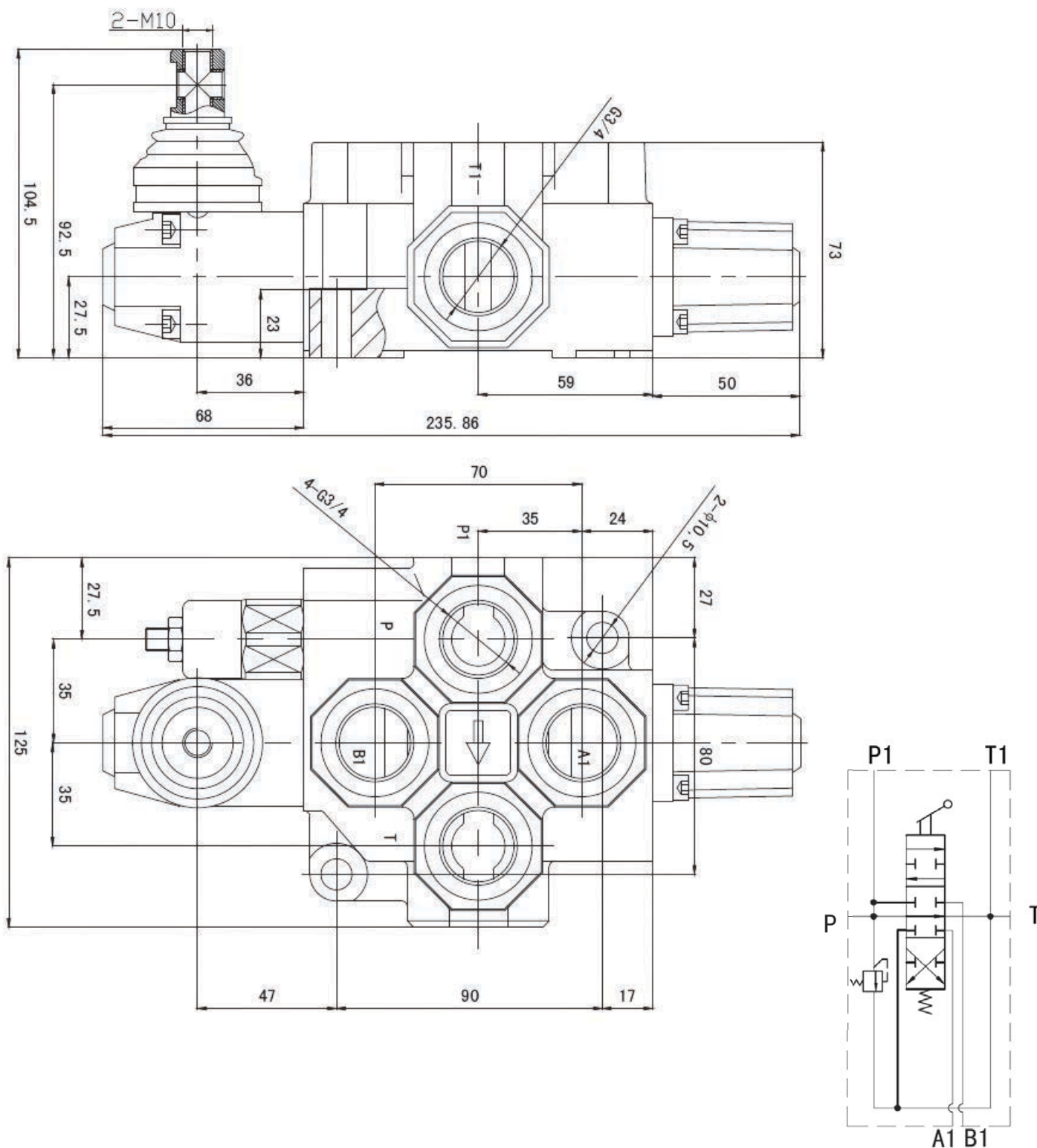
CODE	SPOOL TYPE	POS. 1	POS. 0	POS. 2
D		<p>P → A B → T BP closed</p>	<p>P, T, A, B closed BP open</p>	<p>P → B A → T BP closed</p>
M		<p>P → A B → T BP closed</p>	<p>A, B → T P closed BP open</p>	<p>P → B A → T BP closed</p>
S		<p>P → A closed BP closed</p>	<p>P, T, A closed BP open</p>	<p>A → T P closed BP closed</p>

Port Thread	12
	3/4"



SD14 SERIES MONOBLOCK VALVES- 120 LITRE/MIN.

DIMENSIONAL DATA



BALL VALVES

Distag's two-way high-pressure ball valves are designed for usage in general hydraulic systems, machine tools, test equipment, agricultural, and mobile hydraulics.

These valves should not be used as flow control valves and should therefore always be fully open or closed.

These valves are Carbon steel with trivalent plating and are Fitted with Nitrile seals.



TWO WAY HIGH-PRESSURE BALL VALVES

Our BVC 2 Series two way high-pressure ball valves are designed to suit a wide range of applications. These valves should not be used as flow control valves and should therefore always be fully open or closed.

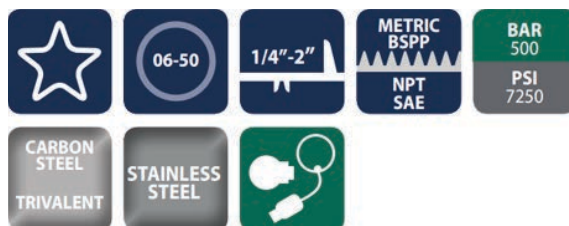
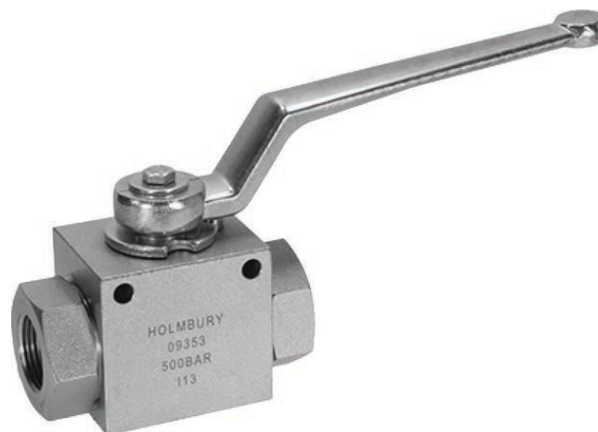


CONSTRUCTION

- Carbon steel with trivalent plating.
- Fitted with Nitrile seals.
- Also available in AISI 316 stainless steel (See BVS 2 Series).
- Metric and flanged available on request.

FEATURES

- Floating ball design maximises sealing.
- Full bore valves provide an unrestricted flow path for negligible pressure drop.
- Open to close in 1/4 turn.
- Cranked handle allows clearance for easy operation.



HOLMBURY GLOSSARY SEE PAGE 17 |

SPECIFICATIONS

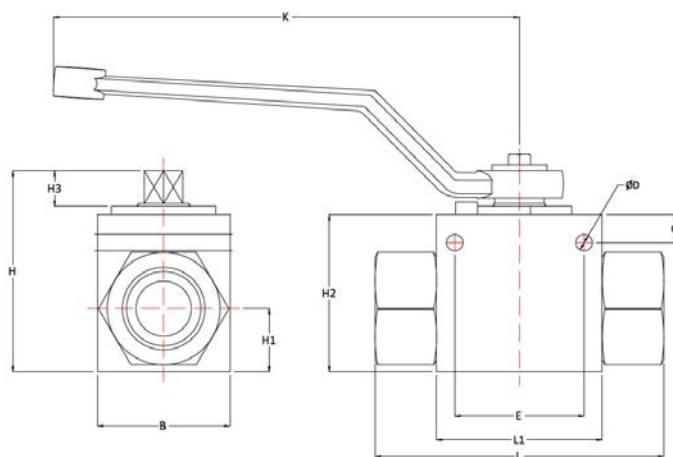
Operating temperatures (With Nitrile seals):
-40°C (-40°F) to 106°C (223°F)

APPLICATIONS

Designed for usage in general hydraulic systems, machine tools, test equipment, agricultural, and mobile hydraulics.

ACCESSORIES

Valve Locking Kits and Valve Handles are available for the BVC 2 Series.



Code	Thread Size (A)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L	L1	Maximum Working pressure (Bar)	Burst Pressure (Bar)
BHVP 04	1/4"	28.3	5.3	4.6	25.9	35.3	107	44.3	13.5	32.5	8.5	68.7	37	500	2000
BHVP 06	3/8"	32.1	5	6.3	32	37.3	107	52.2	17.3	40.3	8.5	72	42	500	2000
BHVP 08	1/2"	35.2	5.6	6.5	37.5	41	107	52.6	18.3	40.5	8.5	83	48	500	2000
BHVP 12	3/4"	48.5	6.3	6.5	45	50	170	74.7	24.7	57.2	14	95.2	60	500	2000
BHVP 16	1"	56.7	5.8	6.8	56	58	170	81.6	28.5	64	14	112.8	64.9	500	2000
BHVP 20	1 1/4"	75	8.3	10.8	66	56	234	103.5	38.5	83.9	16	110	84	350	1400
BHVP 24	1 1/2"	85.2	--	--	--	66	234	115.2	42	95.2	16	129	91.2	350	1400
BHVP 32	2"	105	--	--	--	70	234	133	52.5	112.5	16	140	100	350	1400



3-WAY HIGH-PRESSURE BALL VALVES

Our BVC 3 Series three-way high-pressure ball valves are designed to suit a wide range of applications. These valves should not be used as flow control valves and should therefore always be fully open or closed.

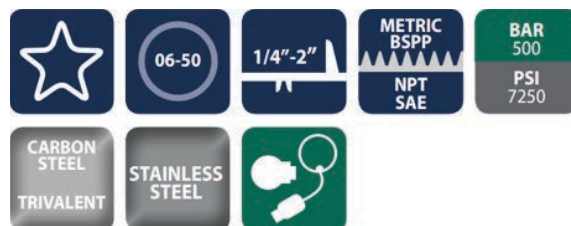
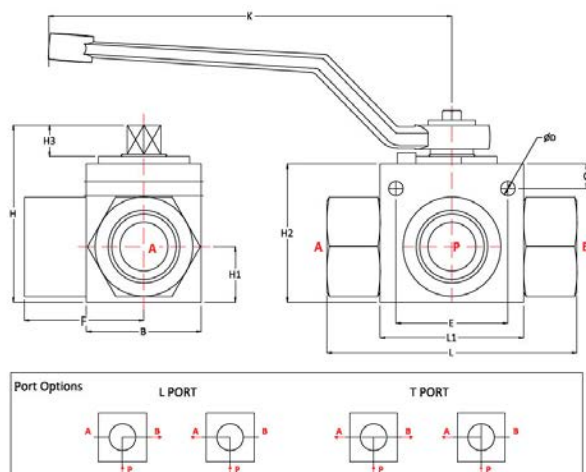


CONSTRUCTION

- Carbon steel with trivalent plating.
- Fitted with Nitrile seals.
- Also available in AISI 316 stainless steel (See BVS 3 Series).
- Metric and flanged available on request.

FEATURES

- Available in 'L' or 'T' port configurations.
- One-piece body design provides additional strength.
- Full bore valves provide an unrestricted flow path for negligible pressure drop.
- 90-degree operation.
- Cranked handle allows clearance for easy operation.



HOLMBURY GLOSSARY SEE PAGE 17 |

SPECIFICATIONS

Operating temperatures (With Nitrile seals):
-40°C (-40°F) to 106°C (223°F)

APPLICATIONS

Designed for usage in general hydraulic systems, machine tools, test equipment, agricultural, and mobile hydraulics.

ACCESSORIES

Valve Locking Kits and Valve Handles are available for the BVC 3 Series.

Code	Thread Size (A)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L	L1	Maximum Working pressure (Bar)	Burst Pressure (Bar)
BHVP 04-3	1/4"	28.3	5.3	4.6	25.9	35.3	107	44.3	13.5	32.5	8.5	68.7	37	500	2000
BHVP 06-3	3/8"	32.1	5	6.3	32	37.3	107	52.2	17.3	40.3	8.5	72	42	500	2000
BHVP 08-3	1/2"	35.2	5.6	6.5	37.5	41	107	52.6	18.3	40.5	8.5	83	48	500	2000
BHVP 12-3	3/4"	48.5	6.3	6.5	45	50	170	74.7	24.7	57.2	14	95.2	60	500	2000
BHVP 16-3	1"	56.7	5.8	6.8	56	58	170	81.6	28.5	64	14	112.8	64.9	500	2000
BHVP 20-3	1 1/4"	75	8.3	10.8	66	56	234	103.5	38.5	83.9	16	110	84	350	1400
BHVP 24-3	1 1/2"	85.2	--	--	--	66	234	115.2	42	95.2	16	129	91.2	350	1400
BHVP 32-3	2"	105	--	--	--	70	234	133	52.5	112.5	16	140	100	350	1400



BRASS BODIED LOW-PRESSURE BALL VALVES

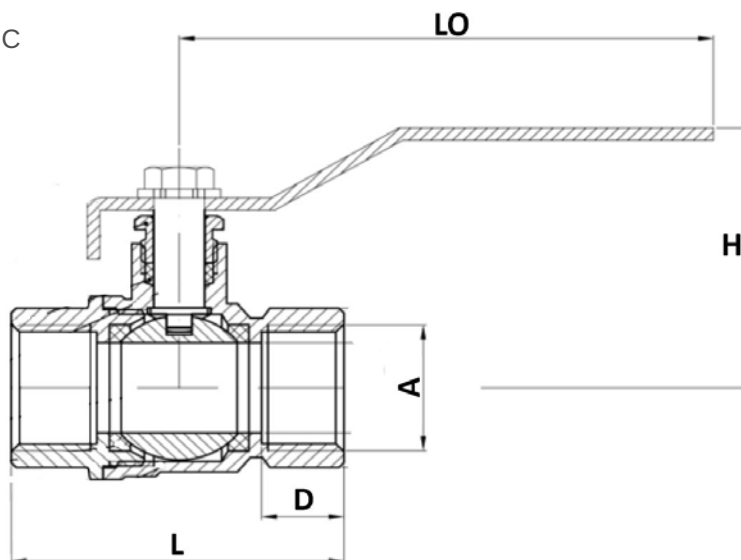
Our Female-Female Brass Bodied Low-Pressure Ball valves are designed to suit a wide range of applications. These valves should not be used as flow control valves and should therefore always be fully open or closed.

CONSTRUCTION

- Produced using hot-pressed Brass Material.
- Fitted with EPDM seals.
- Steel Handle with Red Rubber Cover.

FEATURES

- Working Pressure 25 bar.
- Working Temperature from -10°C to +120°C
- Suitable for water and hydraulic lines.



Code	Thread (A)	L (mm)	H (mm)	D (mm)	LO (mm)	Working Pressure (Bar)
BB BVLP 08	1/2"	46	46	14	85	25
BB BVLP 12	3/4"	57	49	19	97	25
BB BVLP 16	1"	61	60	110	116	25
BB BVLP 20	1.1/4"	78.5	63	118	117	25
BB BVLP 24	1.1/2"	87	78.5	135		25
BB BVLP 32	2"	110.5	85.5	150		25



The CV Series check valve allows flow in one direction and blocks it in the opposite direction. The flow is only allowed once a pre-set cracking pressure is reached.



VCV

Our VCV Series in-line check valves are designed to suit a wide range of applications.

CONSTRUCTION

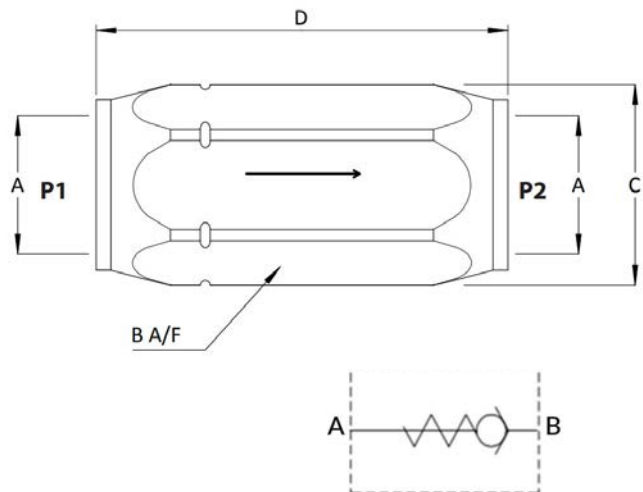
- Carbon steel with trivalent plating.
- Metal to metal sealing.
- Also available in AISI 316 stainless steel.
- Various cracking pressures available.
- Single directional flow.
- Available in male threads

FEATURES

- Various cracking pressures are available.
- Single directional flow.
- A bleed hole can be provided to allow gradual dissipation of the pressure in the hydraulic circuit beyond the check once the primary valve is opened to tank.

APPLICATIONS

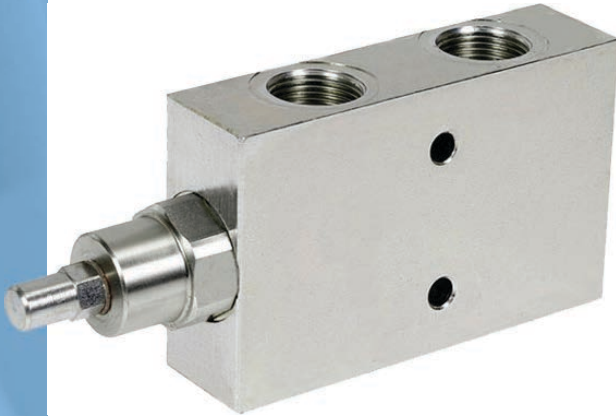
- Designed for use in general hydraulic systems, machine tools, test equipment, agricultural, and mobile hydraulics.



DIMENSIONS				
Part Number	Thread (A)	B	C	D
VCV 04	1/4"	19	21	58
VCV 06	3/8"	24	27	62
VCV 08	1/2"	30	33	79
VCV 12	3/4"	36	40	83
VCV 16	1"	45	49	106

SINGLE OVER-CENTRE VALVES

INTRODUCTION



The over-centre valve prevents the movement of a load when the directional valve is in the neutral position, permitting the use of open centre directional valves and negating leakage past the spool of closed centre directional valves. In the case of hose failure, an over-centre valve mounted onto or into a cylinder will prevent uncontrolled movement of the load. When a cylinder is used in a boom, as in a crane, then hose failure protection is vital as the loss of load control could cause damage to people or property.

VBCDSE



CONSTRUCTION

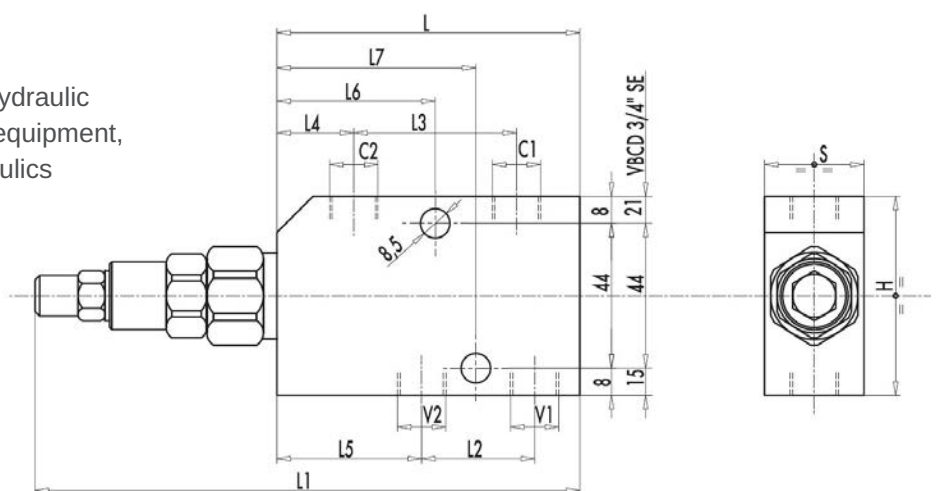
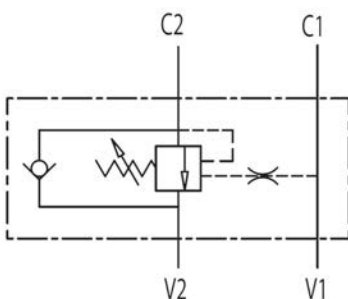
- Carbon steel with trivalent plating.
- Metal to metal sealing.
- Also available in AISI 316 stainless steel.
- Various cracking pressures available.
- Single directional flow.
- Available in male threads

FEATURES

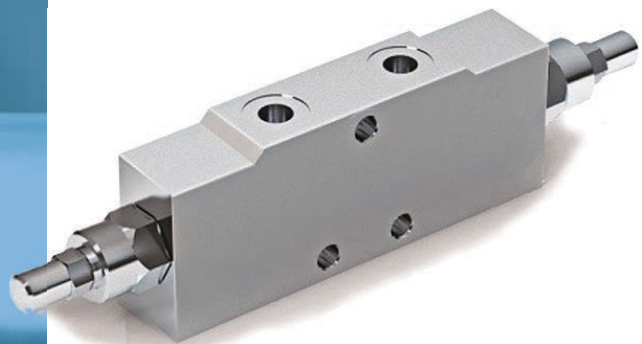
- Various cracking pressures are available.
- Single directional flow.
- A bleed hole can be provided to allow gradual dissipation of the pressure in the hydraulic circuit beyond the check once the primary valve is opened to tank.

APPLICATIONS

- Designed for use in general hydraulic systems, machine tools, test equipment, agricultural, and mobile hydraulics



DIMENSION													
Part Number	Thread	D	L	L1	L2	L3	L4	L5	L6	L7	H	S	Pilot Ratio
VBCDSE 04	G 1/4"	7	76	132	25	49	10	39	42	28	55	30	1 / 4.5
VBCDSE 06	G 3/8"	9	100	149	30	60	10	50	55	44	60	30	1 / 4.5
VBCDSE 08	G 1/2"	9	100	149	36	65	10	50	58	44	60	30	1 / 4.5
VBCDSE 12	G 3/4"	9	127	187	46	85	10	63	75	44	80	35	1 / 5.5
VBCDSE 16	G 1"	11	156	213	70	110	23	63	75	70	90	50	1 / 5.5



The over-centre valve prevents the movement of a load when the directional valve is in the neutral position, permitting the use of open centre directional valves and negating leakage past the spool of closed centre directional valves. In the case of hose failure, an over-centre valve mounted onto or into a cylinder will prevent uncontrolled movement of the load. When a cylinder is used in a boom, as in a crane, then hose failure protection is vital as the loss of load control could cause damage to people or property.

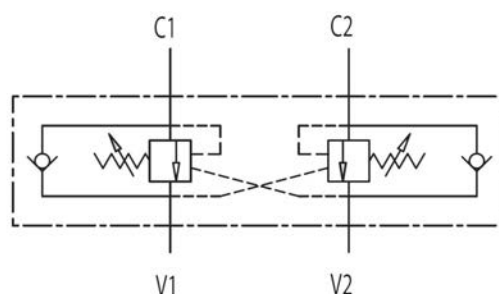
VBCDSE



FEATURES

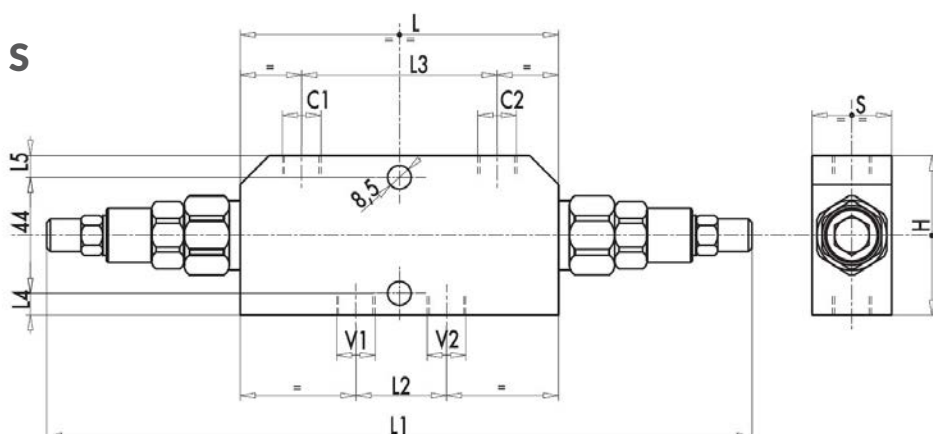
- Body: zinc-plated steel.
- Internal parts: hardened and ground steel
- Seals: BUNA N standard.
- Negligible leakage. Standard-setting: 320 Bar.

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



CONNECTIONS

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



DIMENSION											
Part Number	Thread	L	L1	L2	L3	L4	L5	H	H1	S	Pilot Ratio
VBCDDE 04	G 1/4"	125	255	38	94	/	28	55	28	30	1 / 4.5
VBCDDE 06	G 3/8"	150	248	50	110	30	44	60	32	30	1 / 4.5
VBCDDE 08	G 1/2"	150	248	50	110	30	44	60	32	30	1 / 4.5
VBCDDE 12	G 3/4"	190	304	65	143	44	64	80	40	35	1 / 5.5
VBCDDE 16	G 1"	210	319	66	158	190	/	90	45	50	1 / 5.5

Our VPC Series hose burst valves allow free flow in both directions under normal working conditions, however, in the situation of a surge flow from 'B' to 'A' due to hose failure the valve immediately stops the flow. The burst flow can be set by increasing or decreasing dimension 'S' to be verified during final testing of the machine.



VHBV



CONSTRUCTION

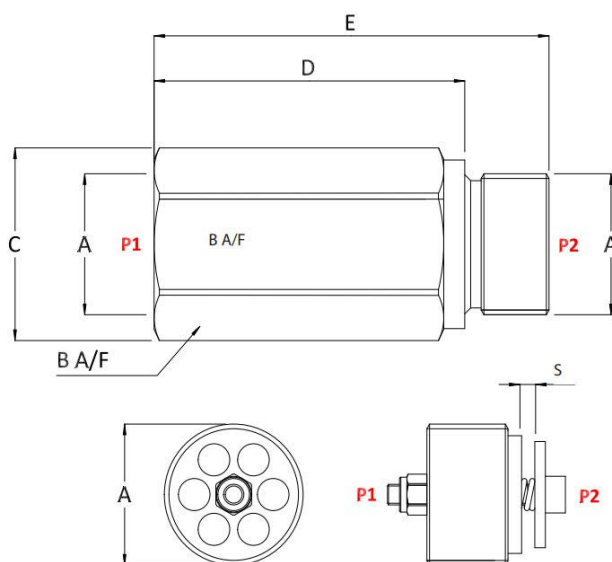
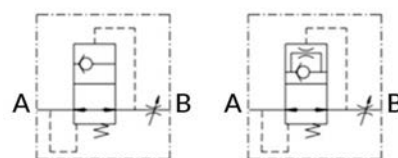
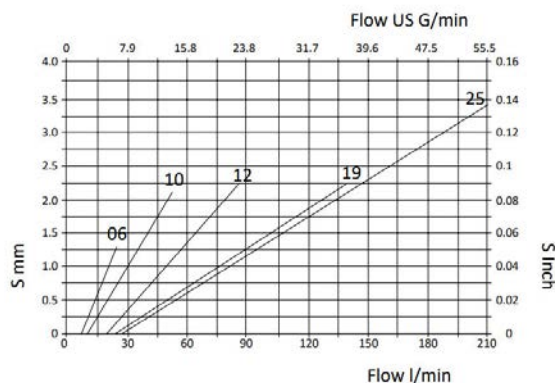
- Carbon steel with trivalent plating.
- Metal to metal sealing.

FEATURES

- Carbon steel with trivalent plating.
- Metal to metal sealing.
- Can be retrofitted to existing systems.
- Male thread designed to be screwed into female threaded port.
- Valves need to be manually set to alter the flow at which the valve shuts.
- Cartridges are available for the VHBV Series.
- Bidirectional flow

APPLICATIONS

- Lifting equipment



DIMENSIONS					
Part Number	Thread (A)	B	C	D	E
VHBV 04	1/4"	19	22	38	50
VHBV 06	3/8"	22	25	48	60
VHBV 08	1/2"	27	31	49	63
VHBV 12	3/4"	32	36	59	75
VHBV 16	1"	41	46	70	88

FLOW CONTROL VALVES

INTRODUCTION

FLOW CONTROL VALVES ARE USED TO ADJUST FLOW SPEEDS. GOOD QUALITY GRADUATED ADJUSTMENT.

Flow Control valves are used to adjust flow speeds. Good quality graduated adjustment. Pressure flow goes into (A) valve port and goes out from (B) valve port and vice versa. To adjust the flow screw out the stop socket screw and turn the hand knob in the desired direction slowly. Screw down the stop socket screw to maintain the settings also, in case vibrations occur.

VNFCV

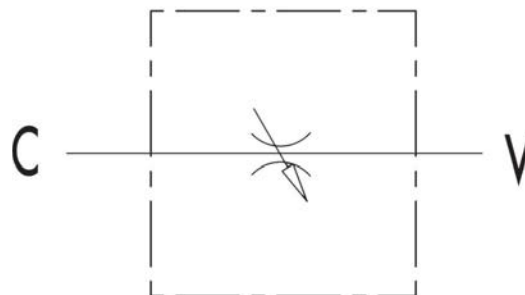
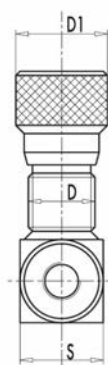
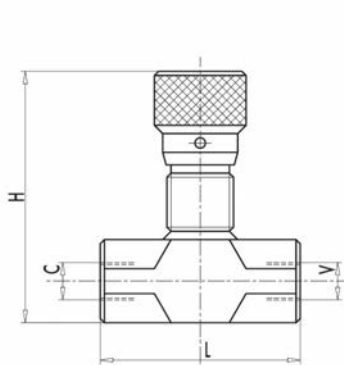
NEEDLE VALVE TWO-WAY -

FEATURES

- Body: zinc-plated steel.
- Internal parts: hardened and ground steel.
- Seals: BUNA N standard.
- Leakage control-needle type. Minimal leakage when the valve is closed.

CONNECTIONS

Connect either ports to the supply and the other to the actuator to control. When used on actuators with double pilot check valves, VNFCV has to be mounted between the actuator and the double pilot check valve. Flow adjustment is done by rotating the plastic hand knob after loosening the side locking screw. This particular configuration allows an accurate adjustment.



DIMENSION							
Part Number	Thread	L	D	D1	H	S	Max Flow lpm
VNFCV DN6 G1/4	G 1/4"	60	M22X1.5	32	82	25	15
VNFCV DN10 G3/8	G 3/8"	61	M22X1.5	32	82	25	30
VNFCV DN12 G1/2	G 1/2"	70	M22X1.5	32	87	30	50
VNFCV DN19 G3/4	G 3/4"	89	M35X1.5	42	109	40	80
VNFCV DN25 G1	G 1"	90	M35X1.5	42	129	40	110

VFCV

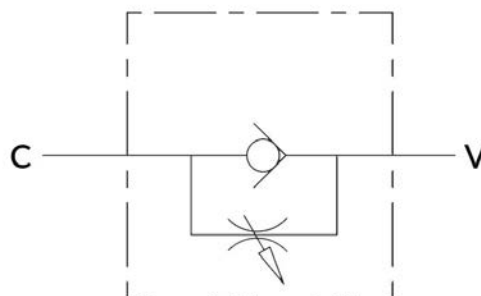
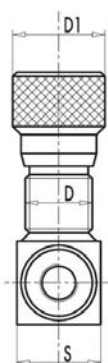
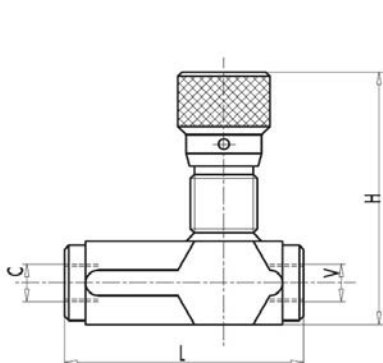
FLOW CONTROL VALVE ONE-WAY

FEATURES

- Body: zinc-plated steel.
- Internal parts: hardened and ground steel
- Seals: BUNA N standard.
- Leakage control-needle type. Minimal leakage when the valve is closed.

CONNECTIONS

Connect either ports to the supply and the other to the actuator to control. When used on actuators with double pilot check valves, VFCV has to be mounted between the actuator and the double pilot check valve. Flow adjustment is done by rotating the plastic hand knob after loosening the side locking screw. This particular configuration allows an accurate adjustment.



DIMENSION							
Part Number	Thread	L	D	D1	H	S	Max Flow lpm
VFCV DN6 G1/4	G 1/4"	73	M22X1.5	32	82	25	15
VFCV DN10 G3/8	G 3/8"	83	M22X1.5	32	82	25	30
VFCV DN12 G1/2	G 1/2"	94	M22X1.5	32	87	30	50
VFCV DN19 G3/4	G 3/4"	110	M35X1.5	42	109	40	80
VFCV DN25 G1	G 1"	135	M35X1.5	42	126	40	110

VSV

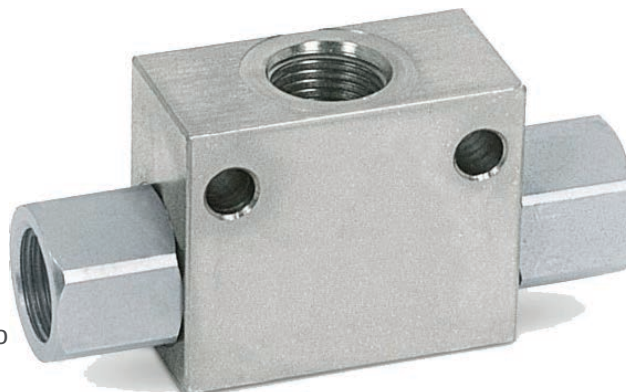
SHUTTLE TEE VALVE

FEATURES

- Body: zinc-plated steel.
- Seals: BUNA N standard.
- Load holding: Ball type

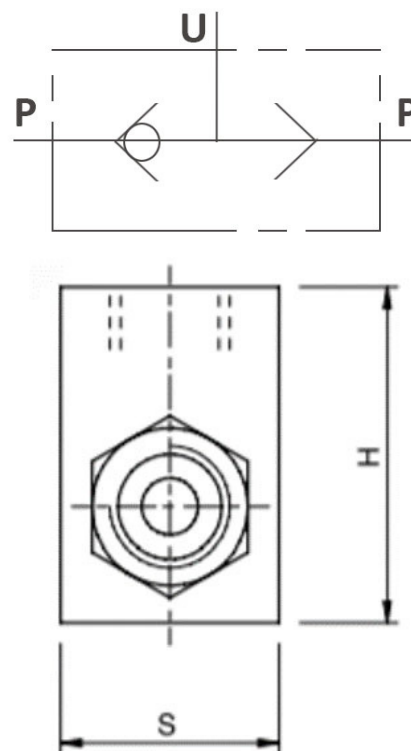
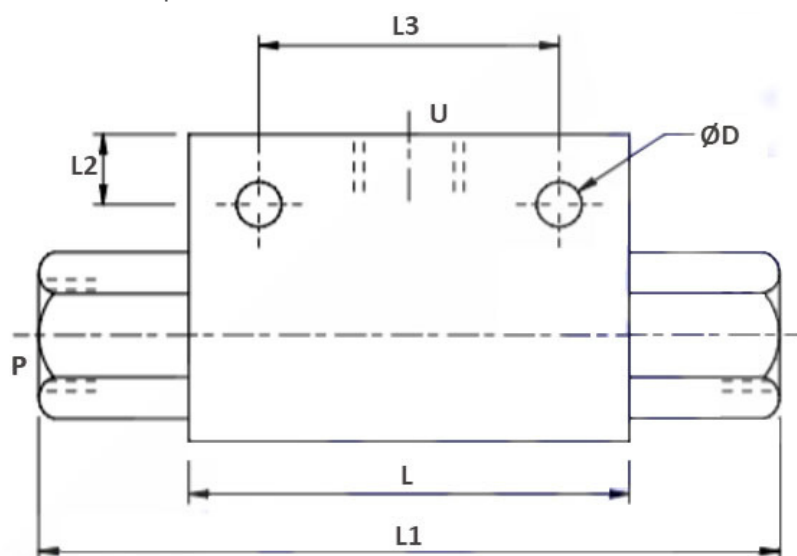
CONNECTIONS

Connect ports P to the 2 lines to select and U to the line to feed



USE & OPERATION

This valve is used to select higher pressure between two pressure lines.



DIMENSION							
Part Number	Thread	L	L1	L2	L3	H	C
VSV DN6 G1/4	G 1/4"	60	104	9	44	40	30
VSV DN10 G3/8	G 3/8"	60	104	9	44	40	30
VSV DN12 G1/2	G 1/2"	60	104	12	44	50	30



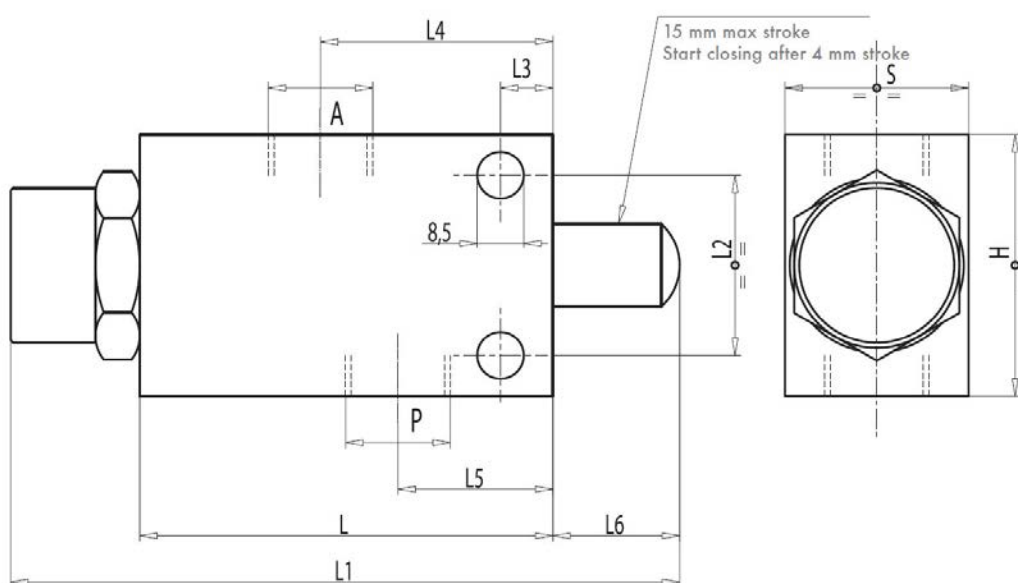
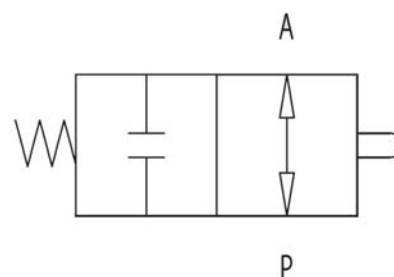
Push-to-stop valves are used to block oil passage in a hydraulic circuit (normally opened valve). The valve closes by mechanically pushing the spool.

VPTSCV-FB6-NO



FEATURES

- Body: zinc-plated steel.
- Internal parts: hardened and ground steel
- Seals: BUNA N standard.
- Load holding: ball type, no leakage.
- Maximum stroke: 15 mm.
- Closing after 4 mm stroke.



DIMENSION

Part Number	Thread	L	L1	L2	L3	L4	L5	L6	H	S
VPTSCV-FB6-NO	G 3/8"	80	129	35	8	53	26	24	62	35

VSC

END OF STROKE VALVE

FEATURES

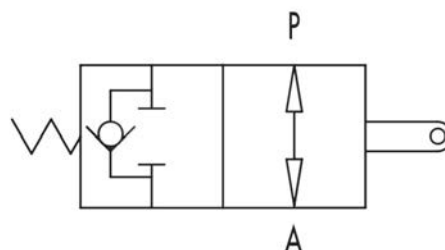
- Body: Cast Iron
- Internal parts: hardened and ground steel
- Seals: BUNA N standard.
- Leakage: Minimal Leakage

CONNECTION

Connect P to the control valve and A to the circuit or to the actuator. When the spool is operated, flow is blocked from P to A, whilst the check valve enables free flow in the reverse direction.

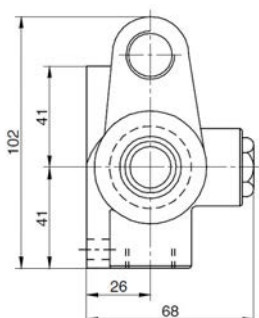
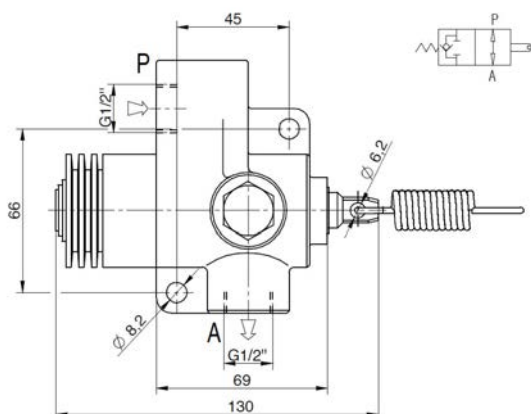
USE & OPERATION

This valve is used to block the oil supply to a hydraulic circuit or to stop an actuator's stroke (Valve is normally open). The valve is closed by either pulling or pushing the spool, which immediately stops the oil flow.



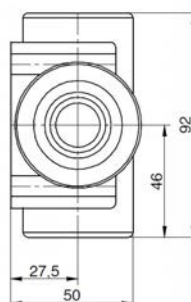
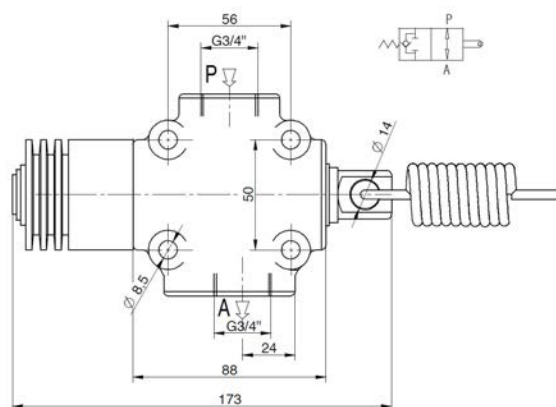
VSV 08 -

FLOW RATE - 80LPM PRESSURE - 350 BAR
THREAD - G1/2"



VSV 12 -

FLOW RATE - 120 LPM PRESSURE - 350 BAR
THREAD - G3/4"



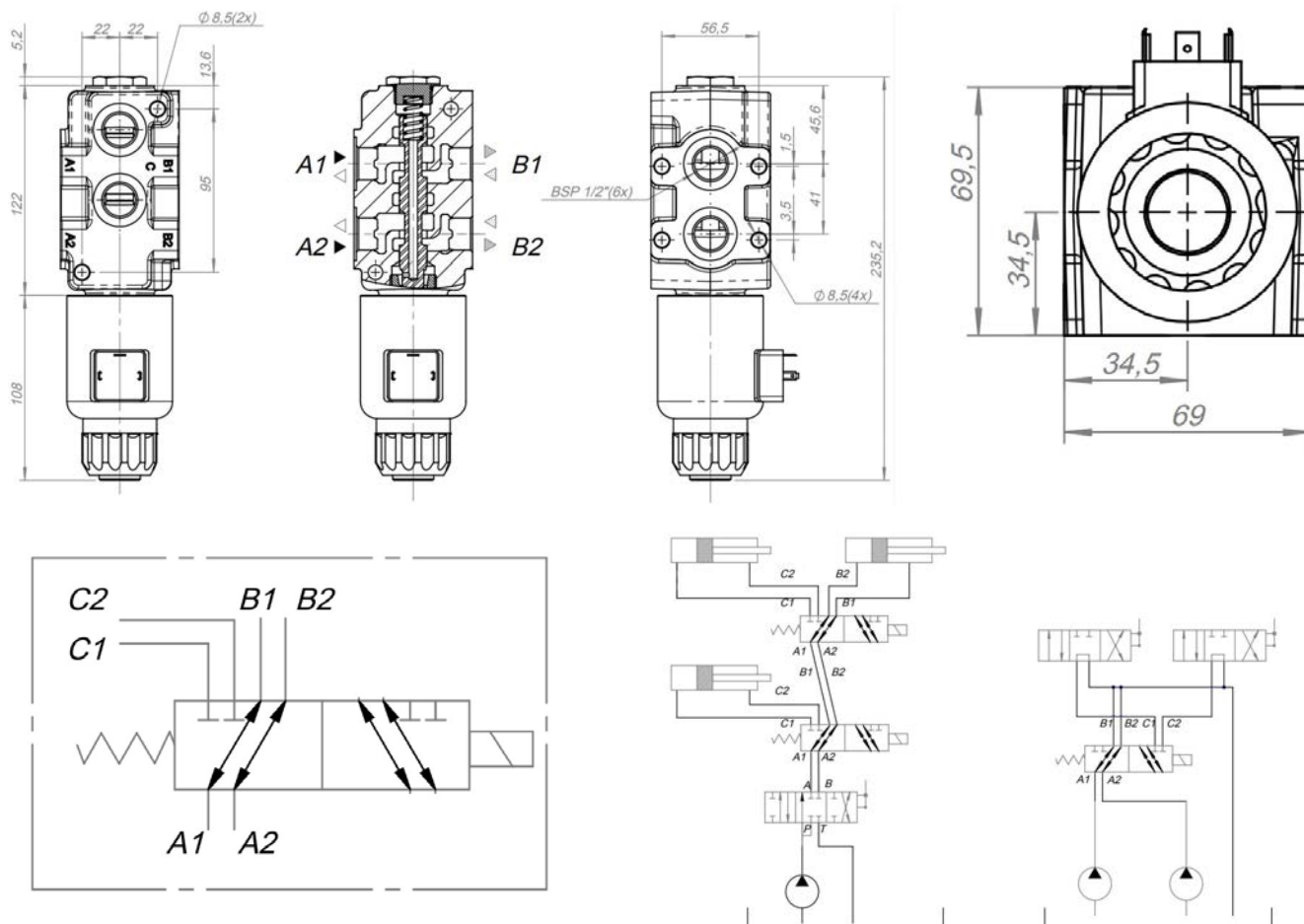


VSVV90 valves are 6 ways, 2 positions (6/2) solenoid operated valves. They are used for selective connection of different cylinders/hydraulic motors in the application. Change over valve is designed to be used when extra circuits are to be operated from one control lever on machines such as forklift trucks, agricultural front end loader and telescopic handlers. When the valve is de-energised, oil directs from D & C ports to the first actuator. When valve coil is energised, oil directs from A & B ports to the second actuator. Valves can be stacked up to 3 valves allowing for the diverting of flow 2,3 or 4 directions depending on the combination chosen.

VSVV90 - SOLENOID DIRECTIONAL



FLOW RATE - 90 L/MIN PRESSURE - 250 BAR THREAD - G1/2"



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