2025
Edition

SINGH™
HYDRAULICS

PRODUCT CATALOG

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Edition : 2025

Singh Hydraulics Private Limited

This catalog presents a curated selection of our standard hydraulic valves and blocks. Designed for quick integration and dependable operation, these components embody the quality and precision synonymous with Singh Hydraulics.

This catalog features a standardised product selection for common applications. For information regarding the complete range of products we offer, custom solutions, and extensive technical data, please visit www.singhhydraulics.com or contact our sales team.

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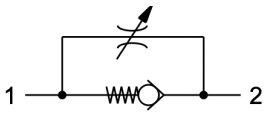
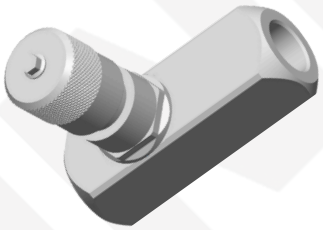
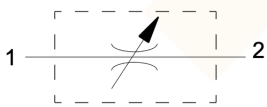
Sector 37, Gurgaon
HR 122004

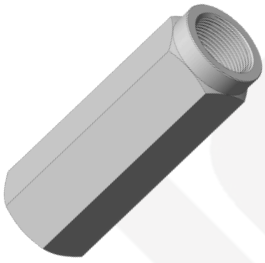
PRODUCT INDEX

FLOW CONTROL

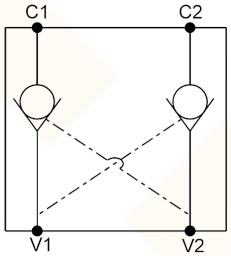
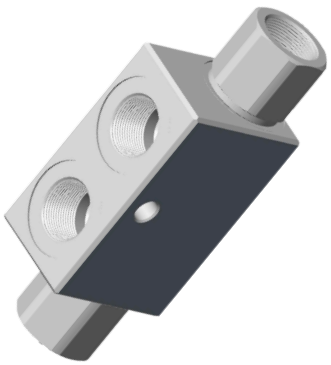
Symbol	Code	3D Model	Flow [l/min]	Pressure [bar]	Page
	SFU.14G		25	350	8-9
	SFU.38G		35		
	SFU.12G		50		
	SFU.34G		90		

Symbol	Code	3D Model	Flow [l/min]	Pressure [bar]	Page
	SFB.14G		25	350	10-11
	SFB.38G		35		
	SFB.12G		50		
	SFB.34G		90		

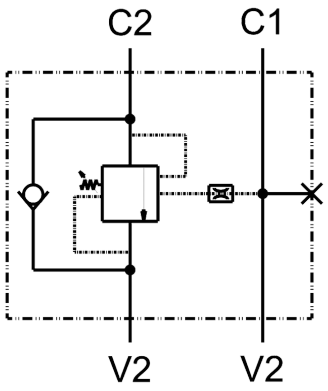
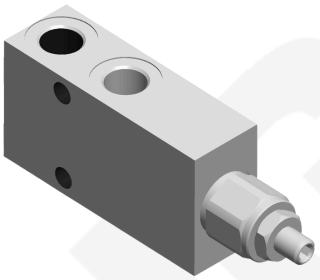
IN-LINE CHECK VALVES

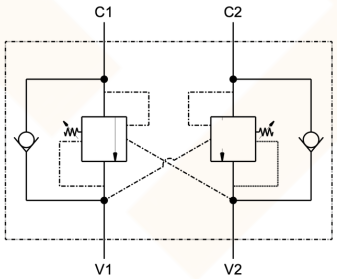
Symbol	Code	3D Model	Flow [l/min]	Pressure [bar]	Page
	ICV0.G14		30	350	12-13
	ICV0.G38		45		
	ICV0.G12		70		
	ICV0.G34		110		

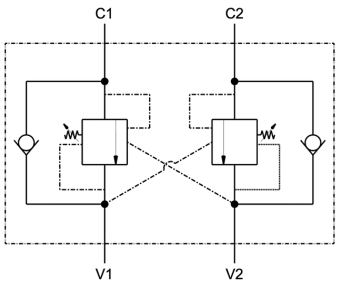
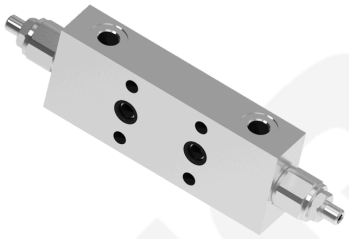
P.O CHECK VALVES

R	Code	3D Model	Flow [l/min]	Pressure [bar]	Page
	PDV.G14		20	350	14-15
	PDV.G38		35		
	PDV.G12		50		

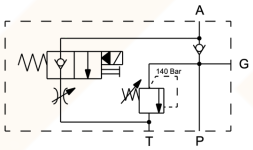
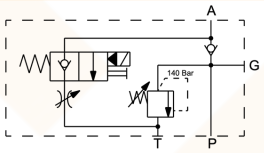
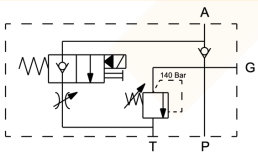
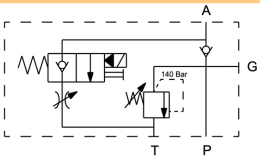
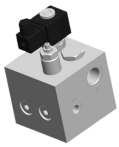
COUNTERBALANCE VALVES

Symbol	Code	3D Model	Max Flow [l/min]	Max Pressure [bar]	Page
	CPS14AL		30	210	16-17
	CPS14S			350	
	CPS38AL		40	210	
	CPS38S			350	
	CPS12AL		60	210	
	CPS12S			350	
	CPS34AL		110	210	
	CPS34S			350	

Symbol	Code	3D Model	Max Flow [l/min]	Max Pressure [bar]	Page
	CPD14AL		30	210	18-19
	CPD14S			350	
	CPD38AL		40	210	
	CPD38S			350	
	CPD12AL		60	210	
	CPD12S			350	
	CPD34AL		110	210	
	CPD34S			350	

Symbol	Code	3D Model	Max Flow [l/min]	Max Pressure [bar]	Page
	CPD14AL		30	210	20-21
	CPD14S			350	
	CPD38AL		40	210	
	CPD38S			350	
	CPD12AL		60	210	
	CPD12S			350	

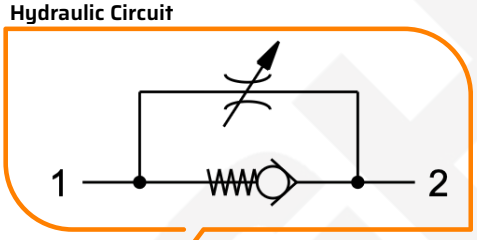
LIFTING LOWERING BLOCKS

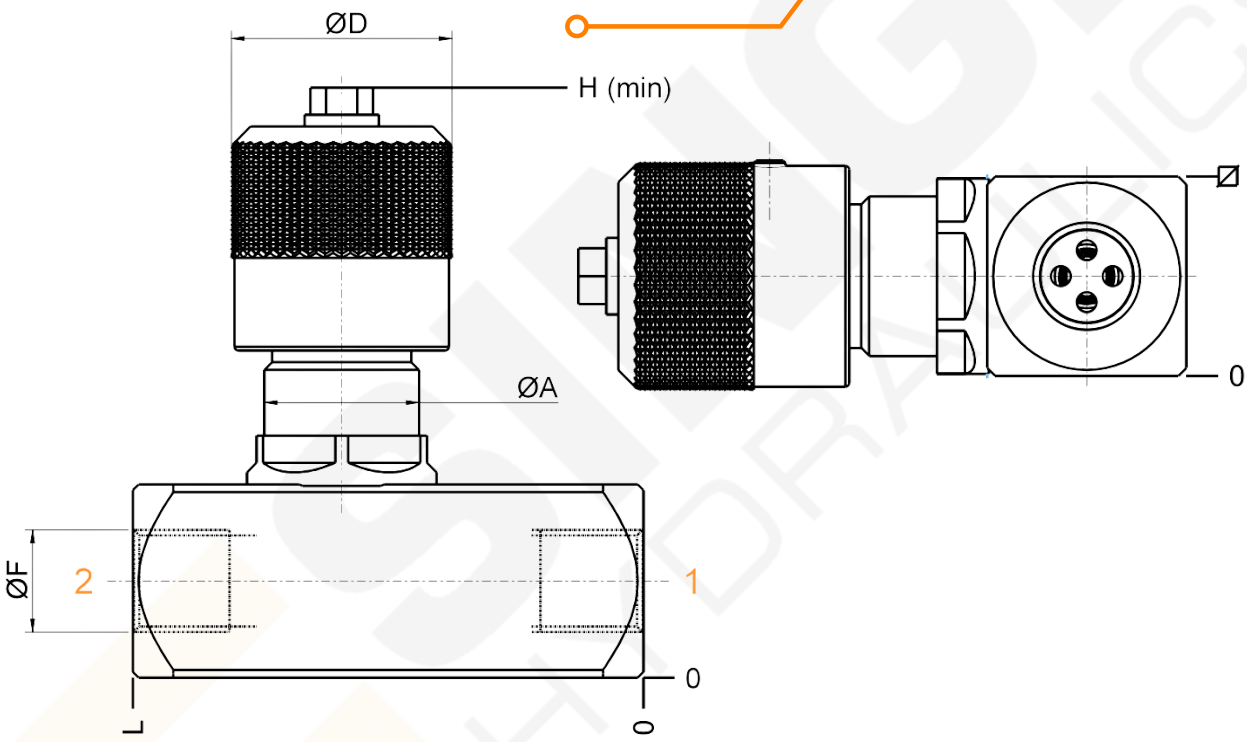
Symbol	Code	3D Model	Max Flow [l/min]	Max Pressure [bar]	Page
	LLB.08		25	220	22-23
	LLB.09		40	350	24-25
	LLB.10		80	350	26-27
	LLB.12		120	220	28-29

DESCRIPTION

Flow control valves regulate the speed and flow rate of fluid within a system.
They ensure smooth operation, precise control, and improved equipment efficiency.
Reverse check valve allow free flow from 2 to 1.

Hydraulic Circuit





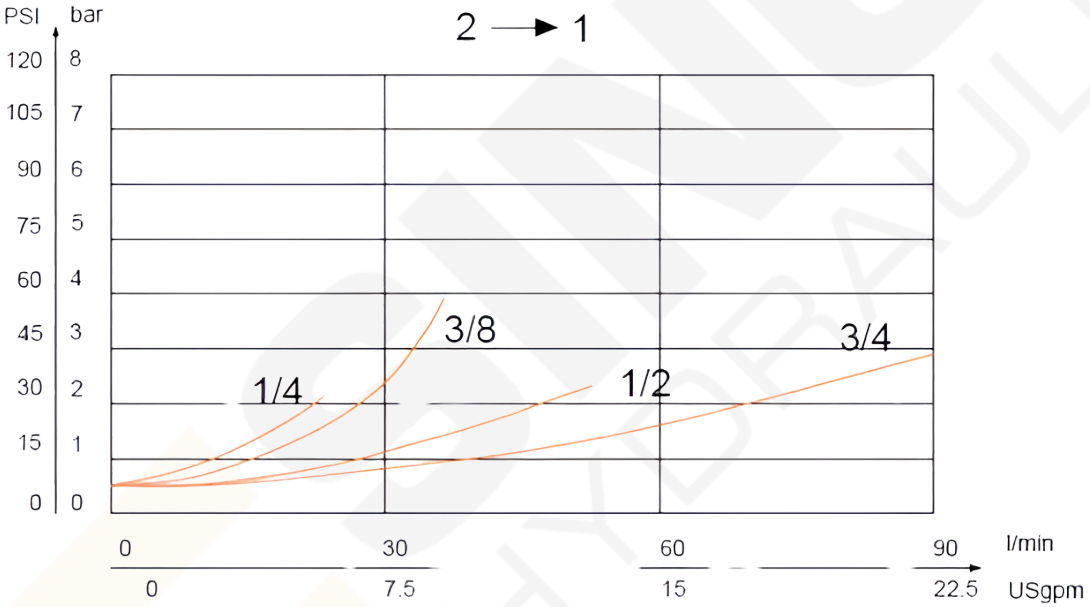
TECHNICAL DATA

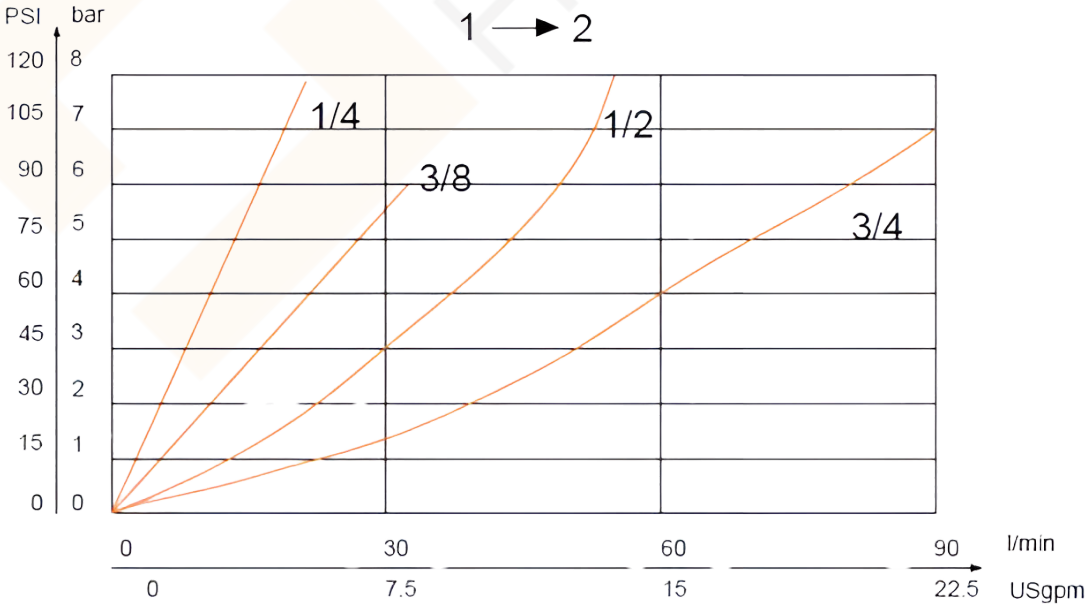
øF	L	H	⊠	øD	øA
14G	66	76	25	30	M20x1
38G	77				
12G	86	81	30		
34G	112.5	110	40	38	M35x1.5

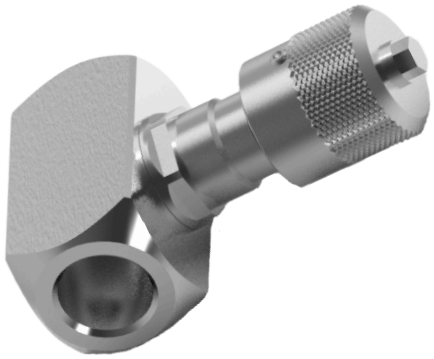
ORDERING CODE

Code	F Ports	Max Flow[l/min]	Max Pressure[bar]	Weight[kg]
SFU	14G	25	350	0.21
SFU	38G	35		0.20
SFU	12G	50		0.41
SFU	34G	90		1.1

PERFORMANCES

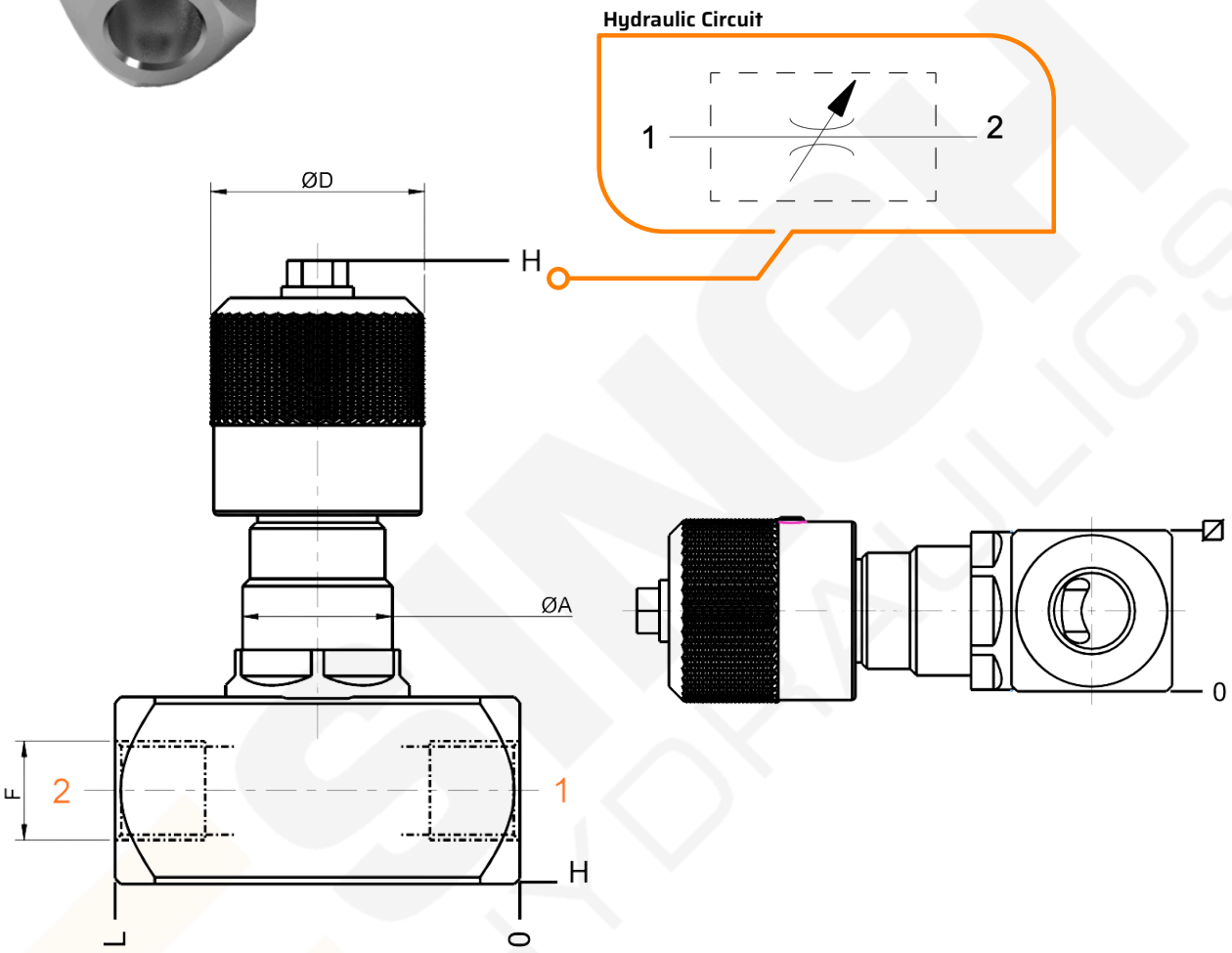






DESCRIPTION

Flow control valves regulate the speed and flow rate of fluid within a system.
They ensure smooth operation, precise control, and improved equipment efficiency.



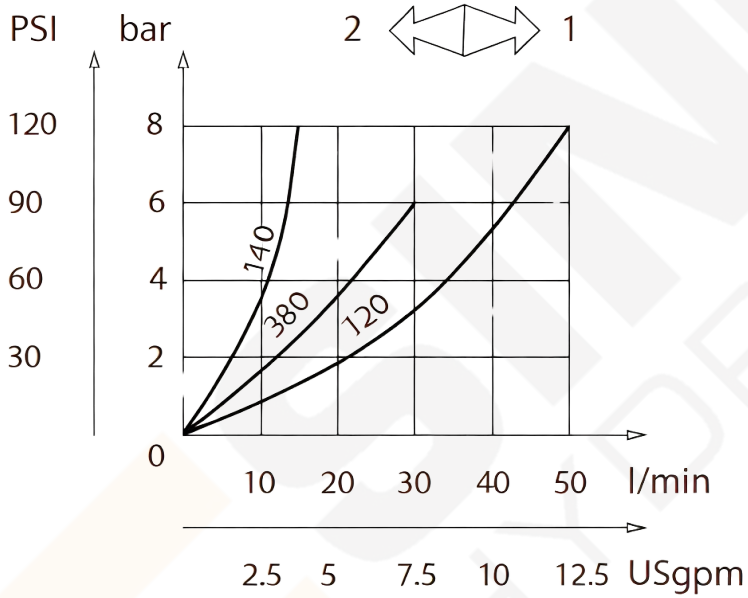
TECHNICAL DATA

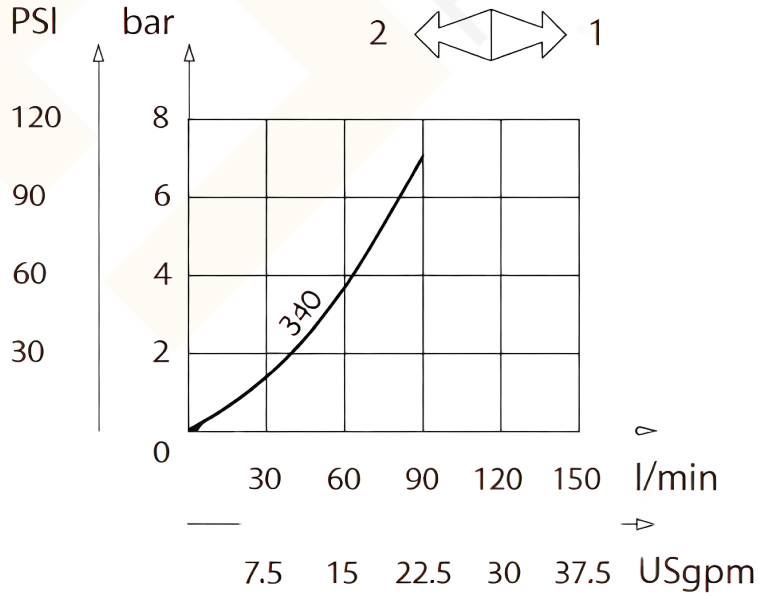
F	L	H	⍁	øD	øA
14G	54	76	25	30	M20x1
38G					
12G	58	81	30		
34G	81	110	40	38	M35x1.5

ORDERING CODE

Code	F Ports	Max Flow[l/min]	Max Pressure[bar]	Weight[kg]
SFB	14G	25	350	0.21
SFB	38G	35		0.20
SFB	12G	50		0.41
SFB	34G	90		1.1

PERFORMANCES

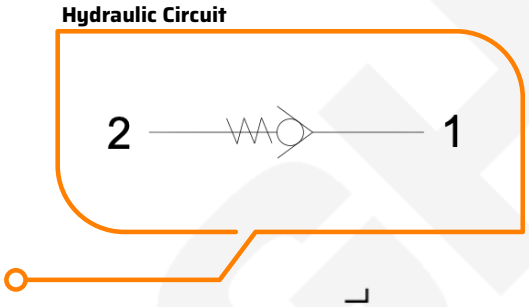


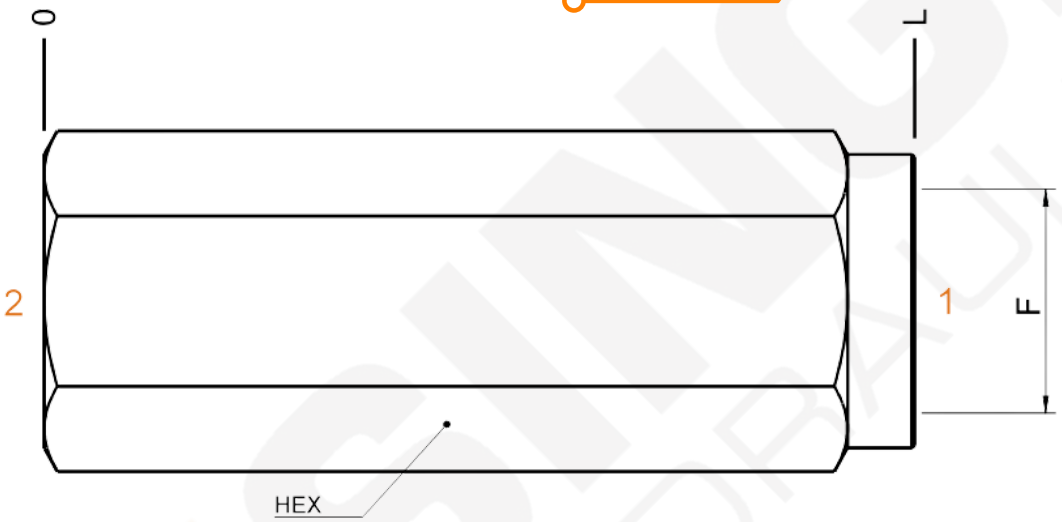


DESCRIPTION

In-line check valves allow fluid to flow freely in one direction while preventing reverse flow.
Compact and easy to install, they offer reliable backflow protection in straight-line systems.

Hydraulic Circuit





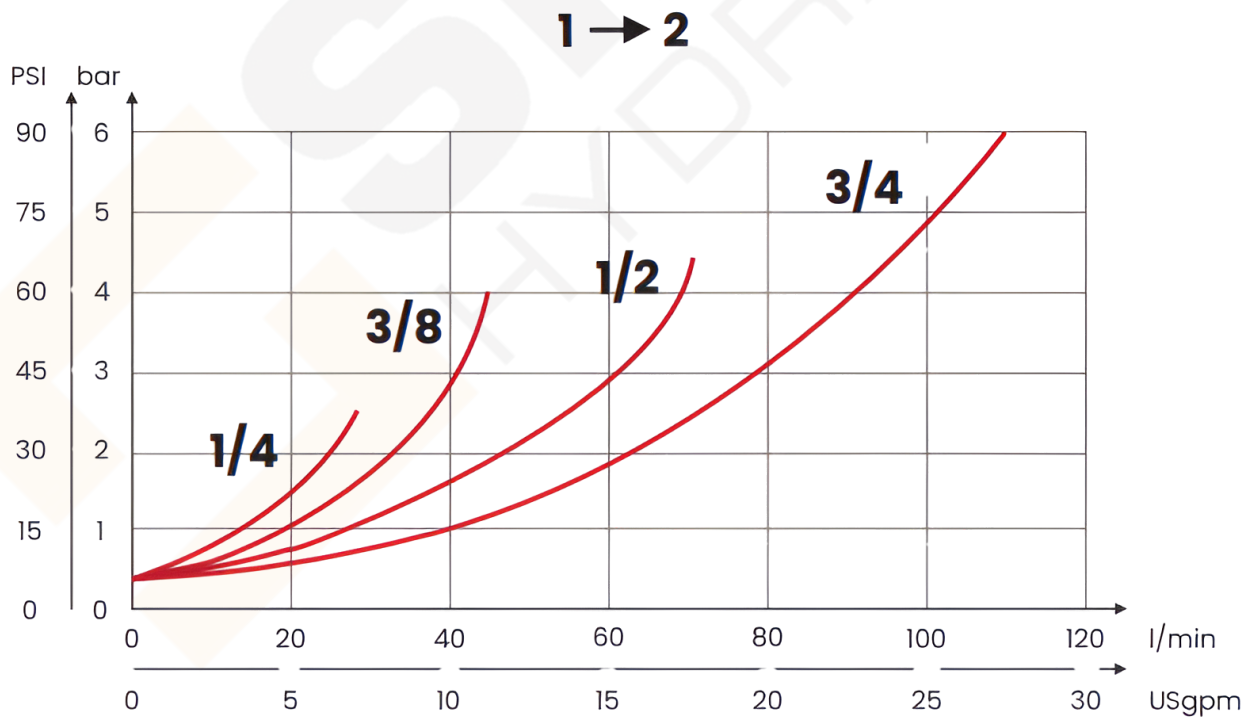
TECHNICAL DATA

F	L	Hex
1/4" BSPP	55	19
3/8" BSPP	65	22
1/2" BSPP	75	27
3/4" BSPP	102	36

ORDERING CODE

Code	F Ports	Max Flow[l/min]	Max Pressure[bar]	Cracking Pressure	Weight[kg]
ICV0.G14	1/4" BSPP	30	350	Poppet Type Standard:0.5 On request: 3, 4.5 & 6	0.1
ICV0.G38	3/8" BSPP	45			0.15
ICV0.G12	1/2" BSPP	70			0.25
ICV0.G34	3/4" BSPP	110			0.6

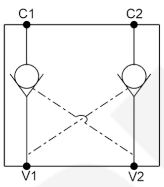
PERFORMANCES

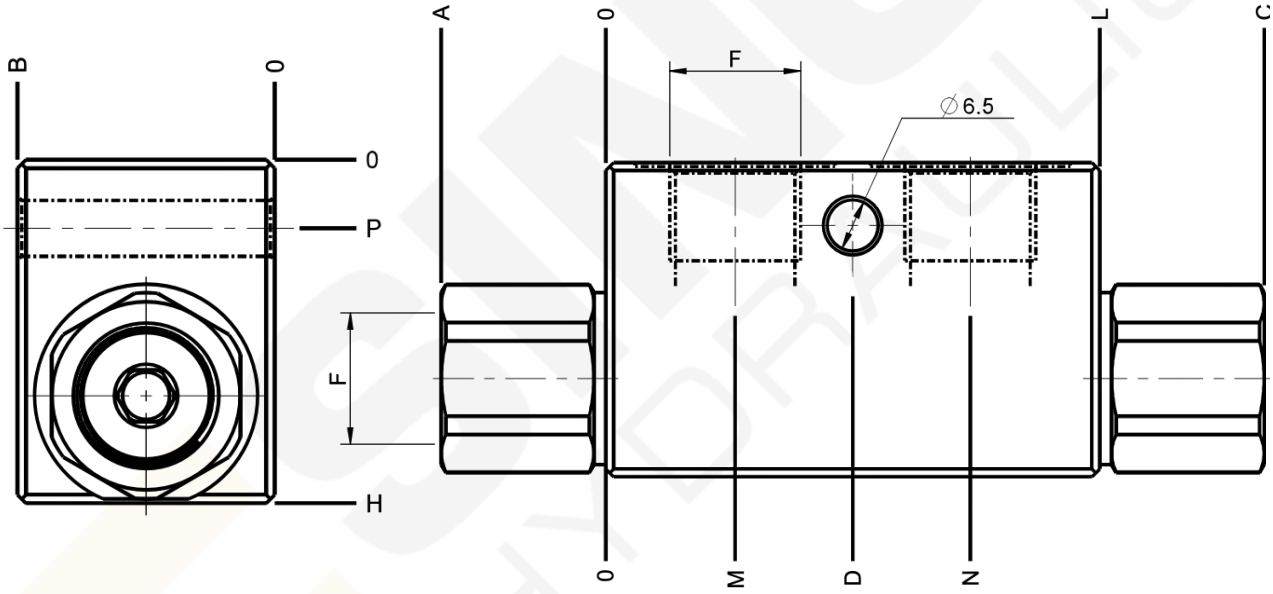


DESCRIPTION

Pilot operated check valves lock fluid in place until released by pilot pressure.
They provide secure load holding and precise control in hydraulic circuits.

Hydraulic Circuit





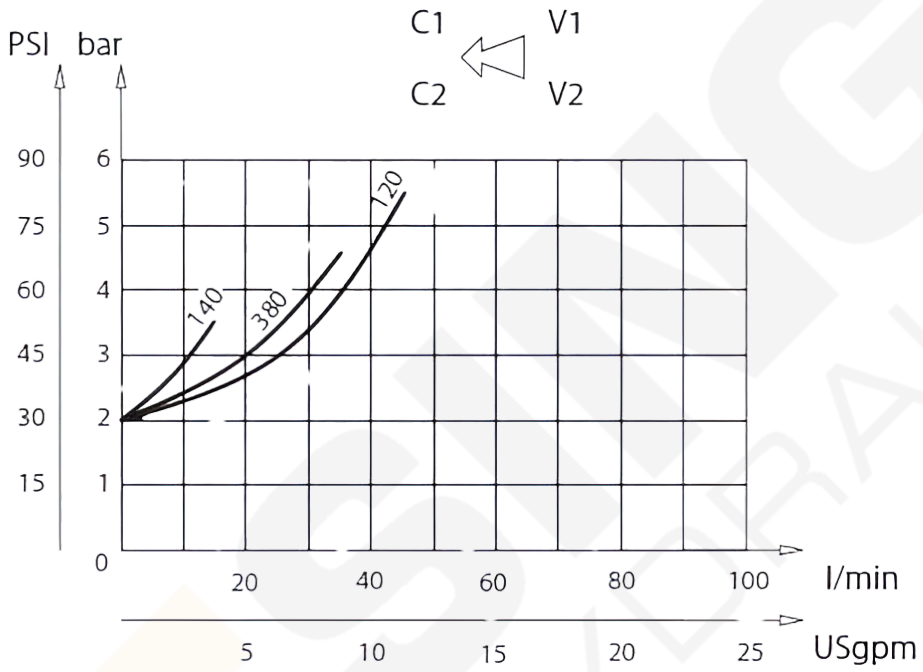
TECHNICAL DATA

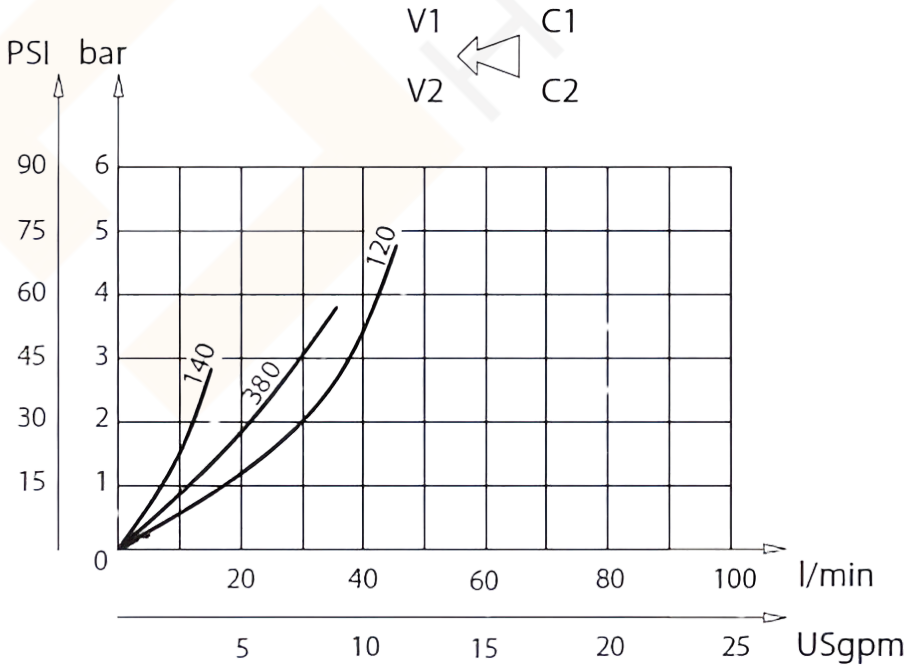
F	B	H	L	M	N	P	A	C	D
1/4"BSPP	30	40	63	16.5	46.5	8	21	84	31.5
3/8"BSPP									
1/2"BSPP	35	50	82	23	59		31.5	113.5	41

ORDERING CODE

Code	F Ports	Max Flow[l/min]	Max Pressure[bar]	Pilot Ratio	Cracking Pressure	Weight[kg]
PDV.G14	1/4"BSPP	20	350	1:5,5	4.5	0.62
PDV.G38	3/8"BSPP	35				0.58
PDV.G12	1/2"BSPP	50		1:5		1.15

PERFORMANCES

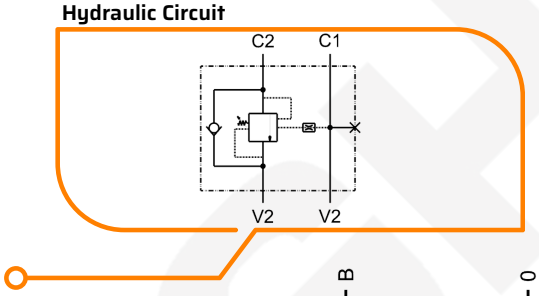


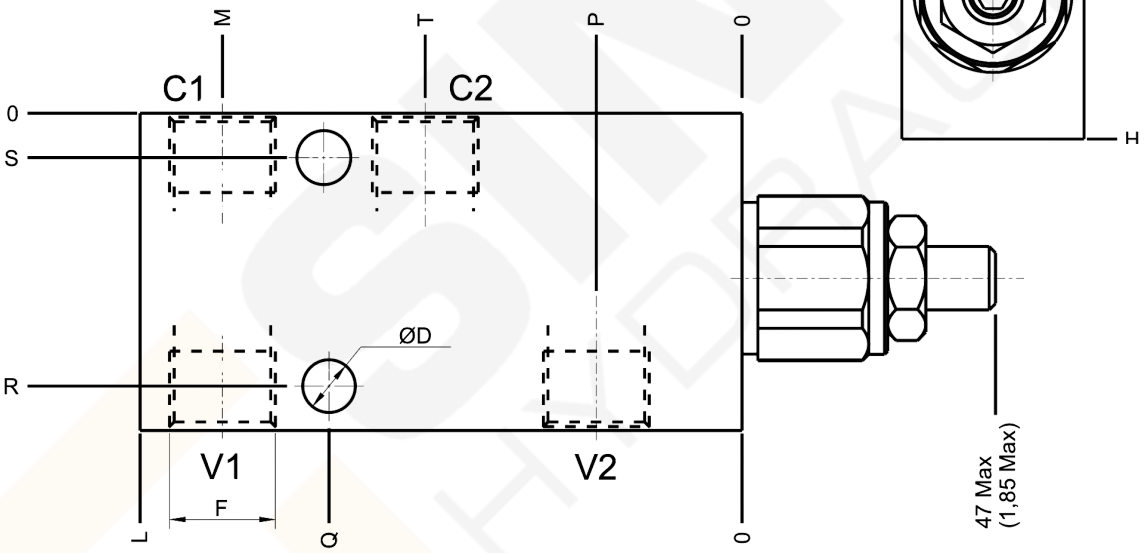


DESCRIPTION

Single counterbalance valves control overrunning loads by maintaining back pressure and preventing uncontrolled movement.
They provide smooth, stable lowering and enhanced safety by holding the load in place until pilot pressure releases it.

Hydraulic Circuit





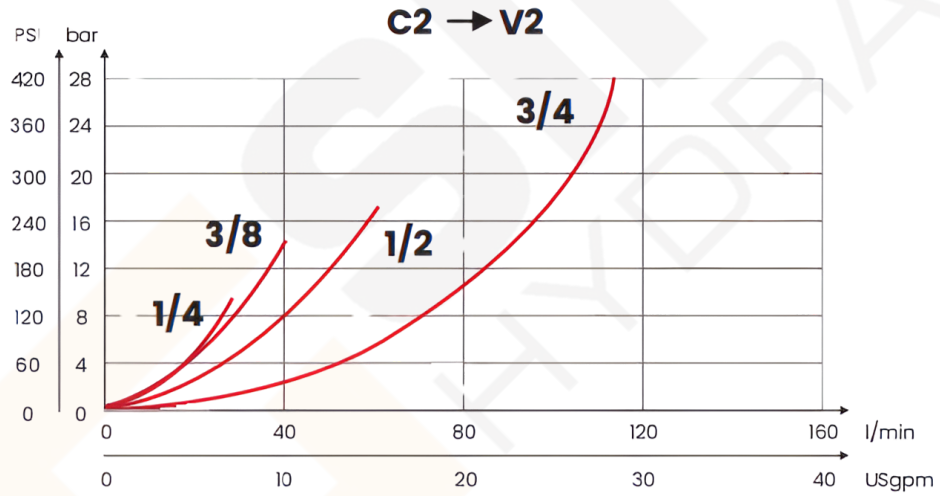
TECHNICAL DATA

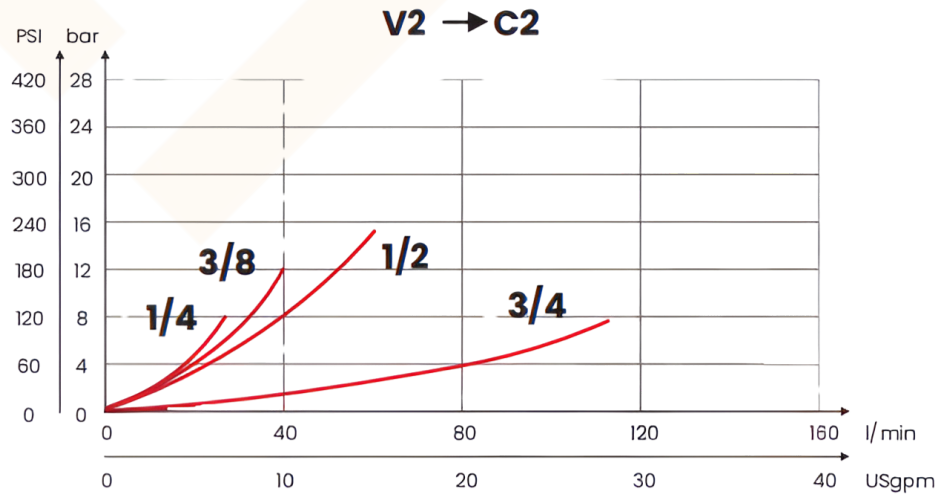
F	H	B	øD	L	M	P	Q	R	S	T
1/4"BSPP	50	30	8.5	95	82	23	66	43	7	50
3/8"BSPP										
1/2"BSPP	60			100	85	21	67.5	50	10	49
3/4"BSPP	70	40	10.5	140	120	26	95.5	60		71

ORDERING CODE

Code	F Ports	Max Flow [l/min]	Max Pressure[bar]	Standard Setting	Range Spring	Increase To Turn	Pilot Ratio	Weight[kg]
CPS14AL	1/4"BSPP	30	210	210	30/210	80	1:4.25	1.1
CPS14S			350	350	60/350	135		
CPS38AL	3/8"BSPP	40	210	210	30/210	80		1.05
CPS38S			350	350	60/350	135		
CPS12AL	1/2"BSPP	60	210	210	30/210	80		1.25
CPS12S			350	350	60/350	135		
CPS34AL	3/4"BSPP	110	210	210	30/210	70	1:6.2	2.7
CPS34S			350	350	60/350	145		

PERFORMANCES

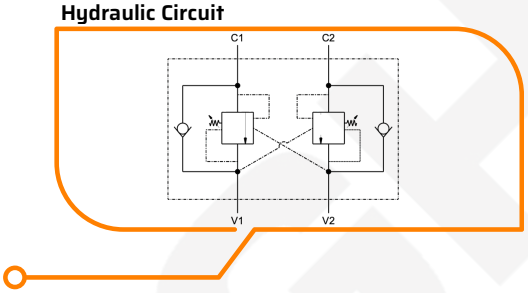


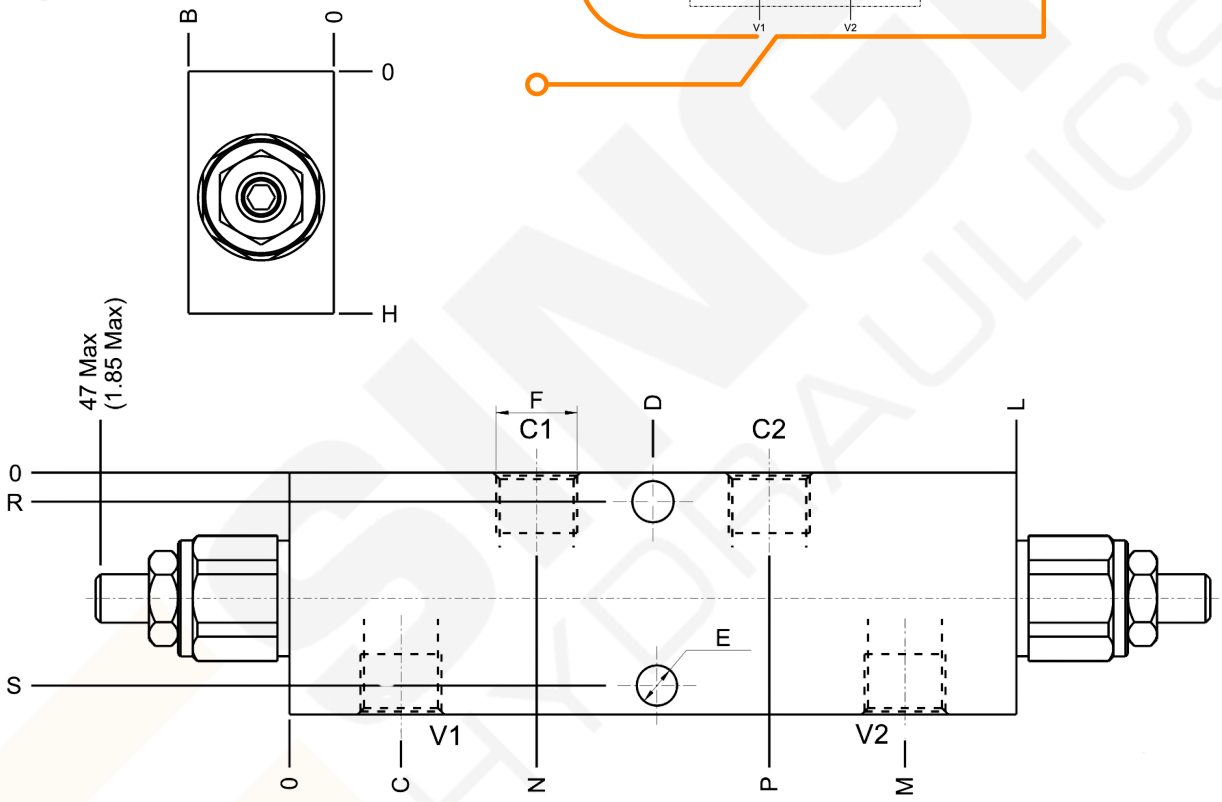


DESCRIPTION

Double counterbalance valves provide independent load control on both sides of a cylinder, managing overrunning loads in both directions.
They ensure smooth, stable motion and enhanced safety, holding the load securely until pilot pressure allows controlled movement.

Hydraulic Circuit





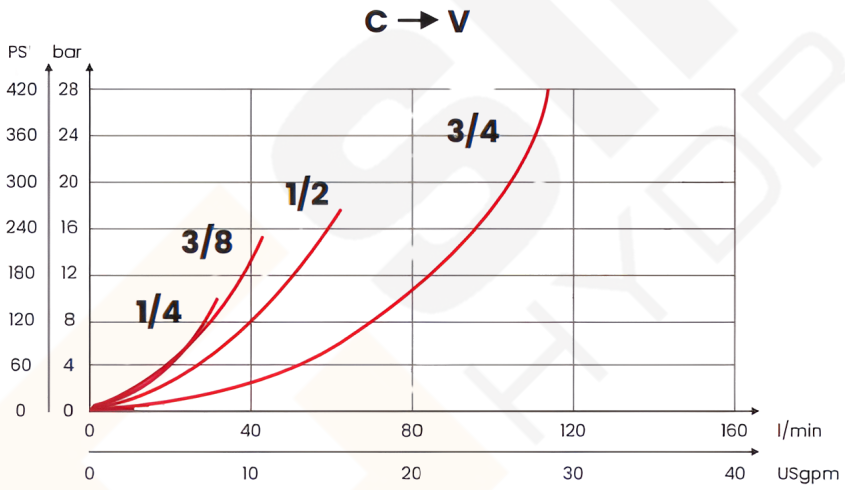
TECHNICAL DATA

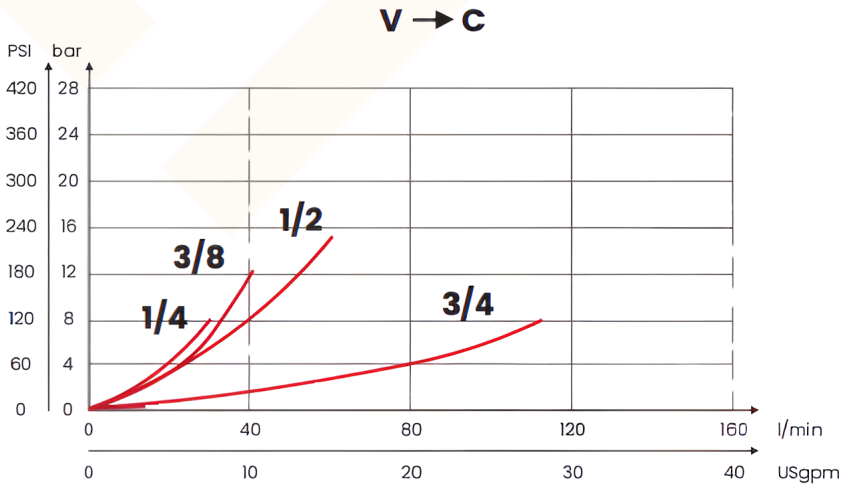
F	H	B	C	D	ØE	L	M	N	P	R	S
1/4"BSPP	50	30	23	75	8.5	150	127	51	99	6	44
3/8"BSPP											
1/2"BSPP	60		21				129		139	8.5	51.5
3/4"BSPP	70	40	26	105	10.5	210	184	71		9	61

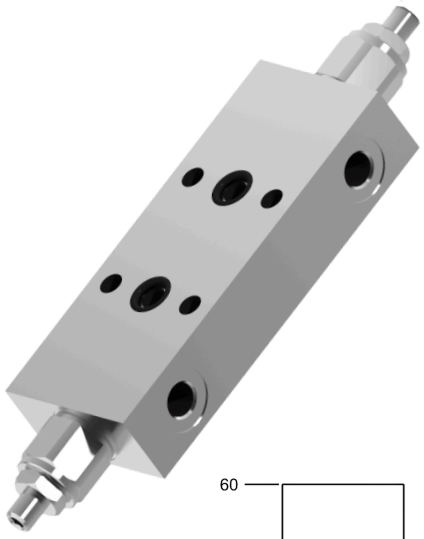
ORDERING CODE

Code	F Ports	Max Flow [l/min]	Max Pressure[bar]	Standard Setting [bar]	Range Spring [bar]	Increase To Turn [bar]	Pilot Ratio	Weight[kg]
CPD14AL	1/4"BSPP	30	210	210	30/210	80	1:4.25	1.80
CPD14S			350	350	60/350	135		
CPD38AL	3/8"BSPP	40	210	210	30/210	80		1.72
CPD38S			350	350	60/350	135		
CPD12AL	1/2"BSPP	60	210	210	30/210	80		2.00
CPD12S			350	350	60/350	135		
CPD34AL	3/4"BSPP	110	210	210	30/210	70	1:6.2	4.30
CPD34S			350	350	60/350	145		

PERFORMANCES



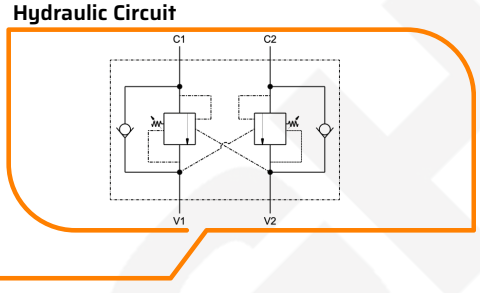


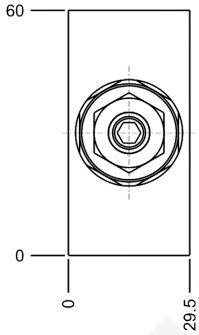


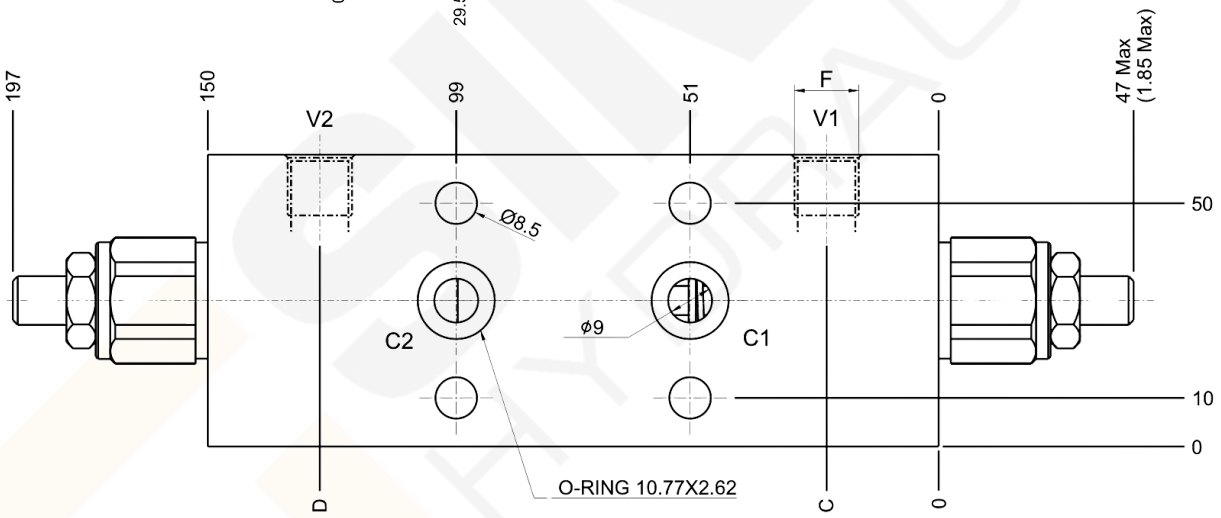
DESCRIPTION

Flanged double counterbalance valves offer secure, flange-mounted load control on both sides of a cylinder for high-demand applications.
They deliver stable, precise motion and enhanced safety, holding loads firmly until pilot pressure enables controlled movement.

Hydraulic Circuit







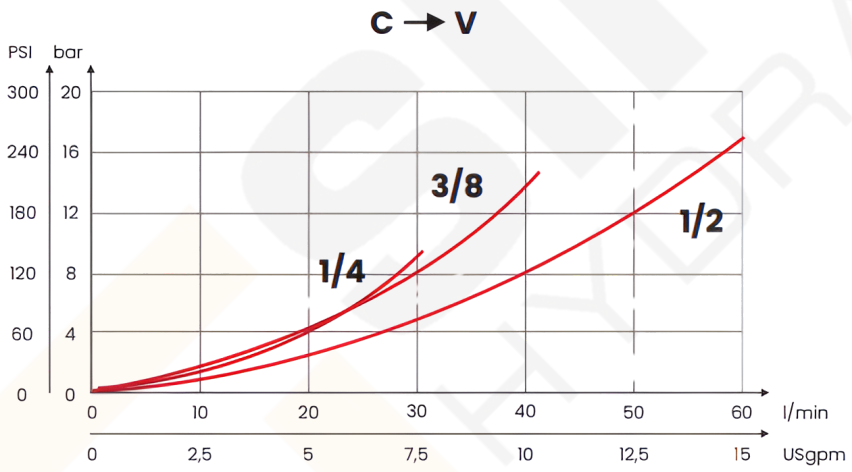
TECHNICAL DATA

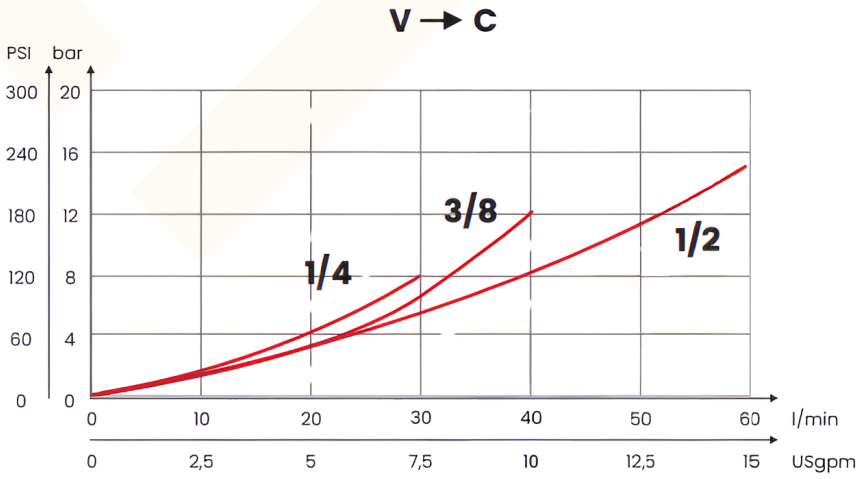
F	C	D
1/4"BSPP	23	127
3/8"BSPP		
1/2"BSPP	21	129

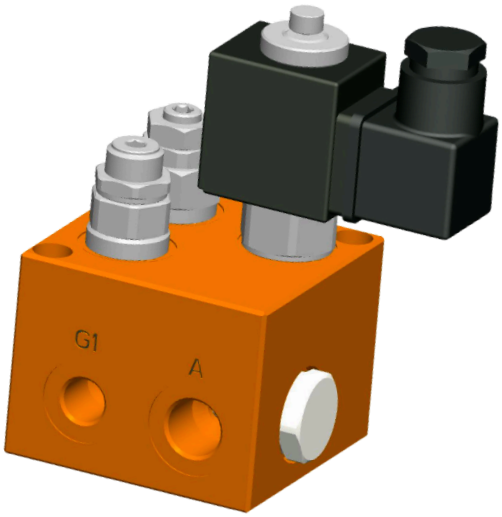
ORDERING CODE

Type	F Ports	Max Flow [l/min]	Max Pressure[bar]	Standard Setting [bar]	Range Spring [bar]	Increase To Turn [bar]	Pilot Ratio	Weight[kg]
CFD14AL	1/4"BSPP	30	210	210	30/210	80	1:4.25	2.05
CFD14S			350	350	60/350	135		
CFD38AL	3/8"BSPP	40	210	210	30/210	80		2.00
CFD38S			350	350	60/350	135		
CFD12AL	1/2"BSPP	60	210	210	30/210	80		1.96
CFD12S			350	350	60/350	135		

PERFORMANCES



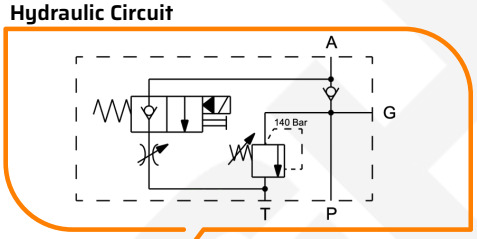




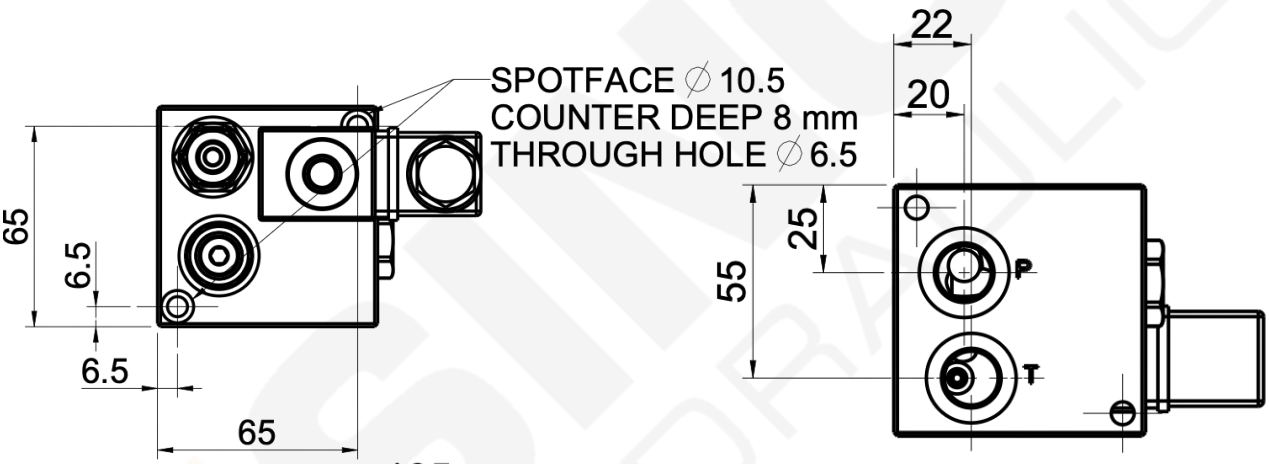
DESCRIPTION

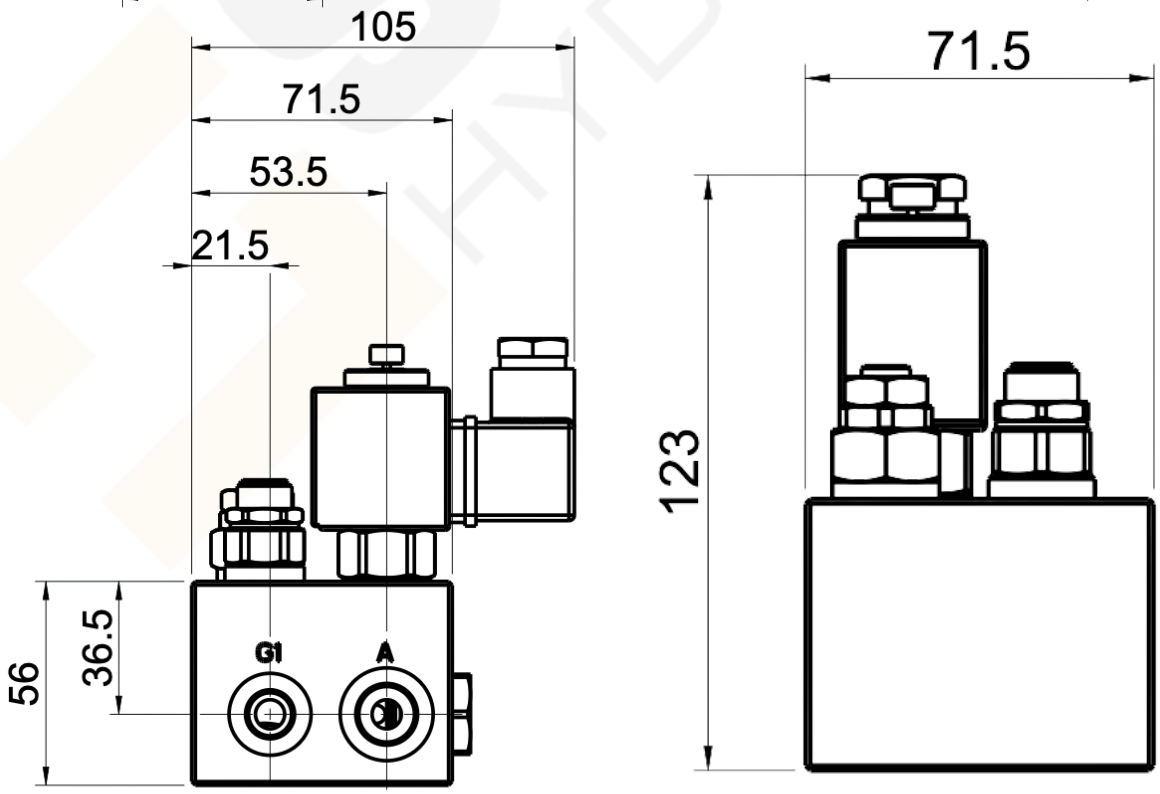
Lifting lowering blocks provide precise control over the raising and lowering of hydraulic loads.
They combine flow control and check valve functions to ensure smooth, safe, and stable movement, preventing load drift or sudden drops during operation.

Hydraulic Circuit



PORT	
P,T,A	3/8"BSP
G	1/4"BSP

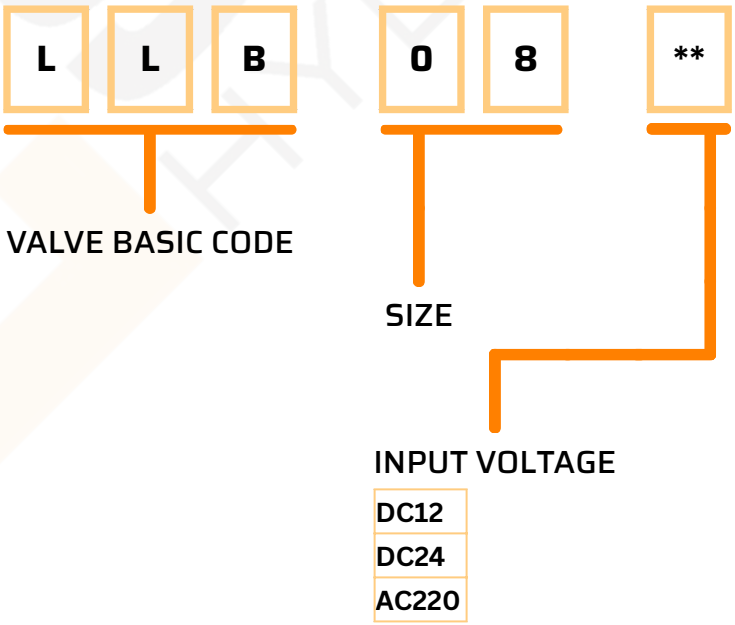




TECHNICAL DATA

Model	LLB-08
Maximum Flow Rate [l/min]	25 Lpm
Maximum Working Pressure [bar]	220
Material	Aluminium
Weight [Kg]	1.2
Minimum Working Voltage	90% of rated voltage
Seal material	NBR Seals
Temperature Range [°C]	-30 to +110
Oil Cleaniliness according to ISO4406	Class 20/18/15

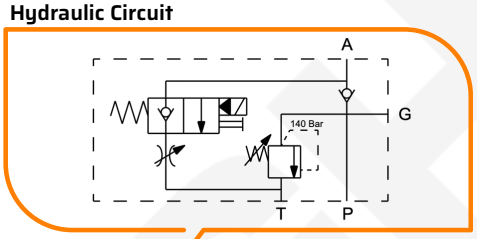
ORDERING CODE



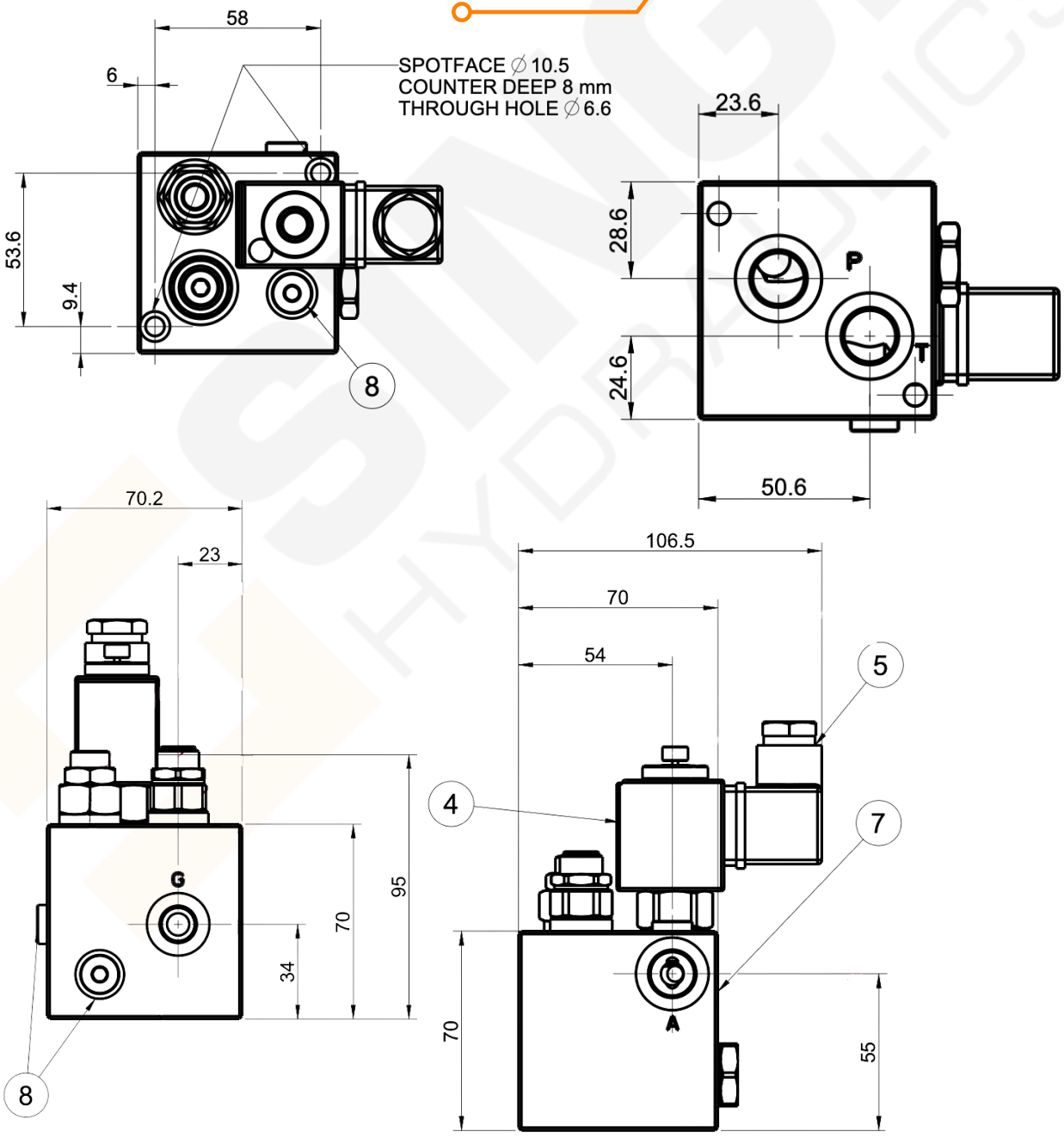
DESCRIPTION

Lifting lowering blocks provide precise control over the raising and lowering of hydraulic loads.
They combine flow control and check valve functions to ensure smooth, safe, and stable movement, preventing load drift or sudden drops during operation.

Hydraulic Circuit



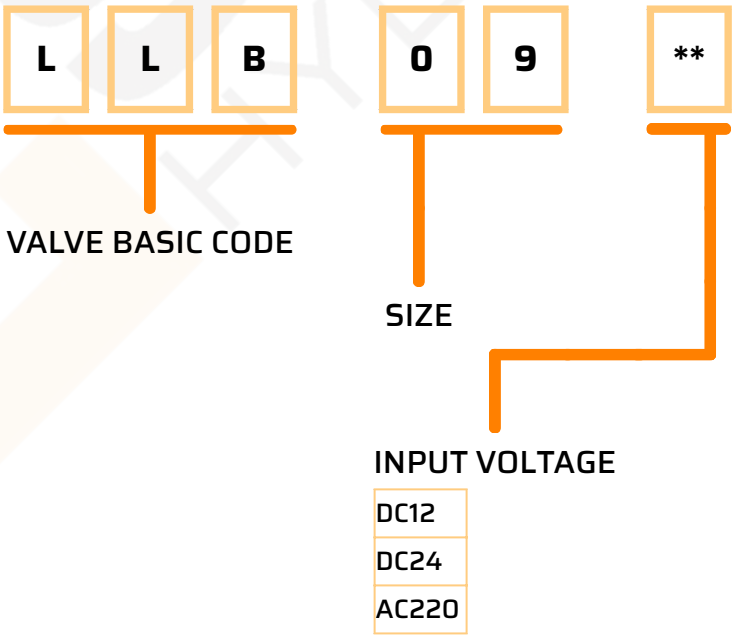
PORT	
P,T,A	3/8"BSP
G	1/4"BSP

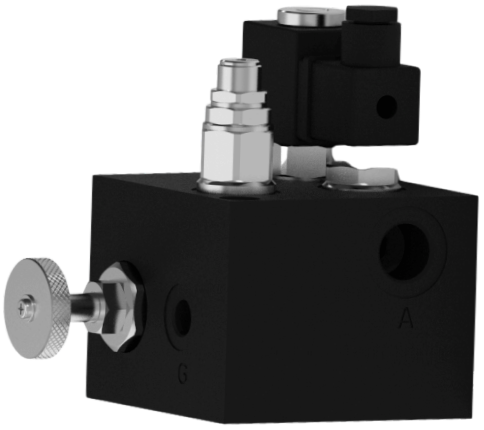


TECHNICAL DATA

Model	LLB-09
Maximum Flow Rate [l/min]	40 Lpm
Maximum Working Pressure [bar]	350 Bar
Material	Steel
Weight [Kg]	2.75
Minimum Working Voltage	90% of rated voltage
Seal material	NBR Seals
Temperature Range [°C]	-30 to +110
Oil Cleaniliness according to ISO4406	Class 20/18/15

ORDERING CODE





DESCRIPTION

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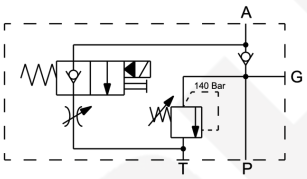
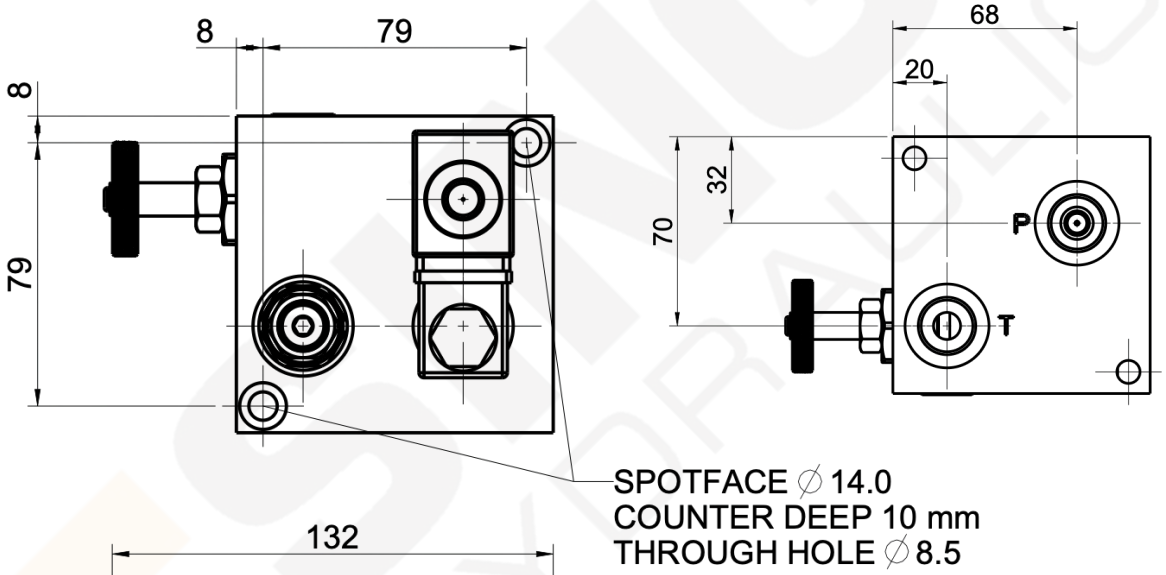
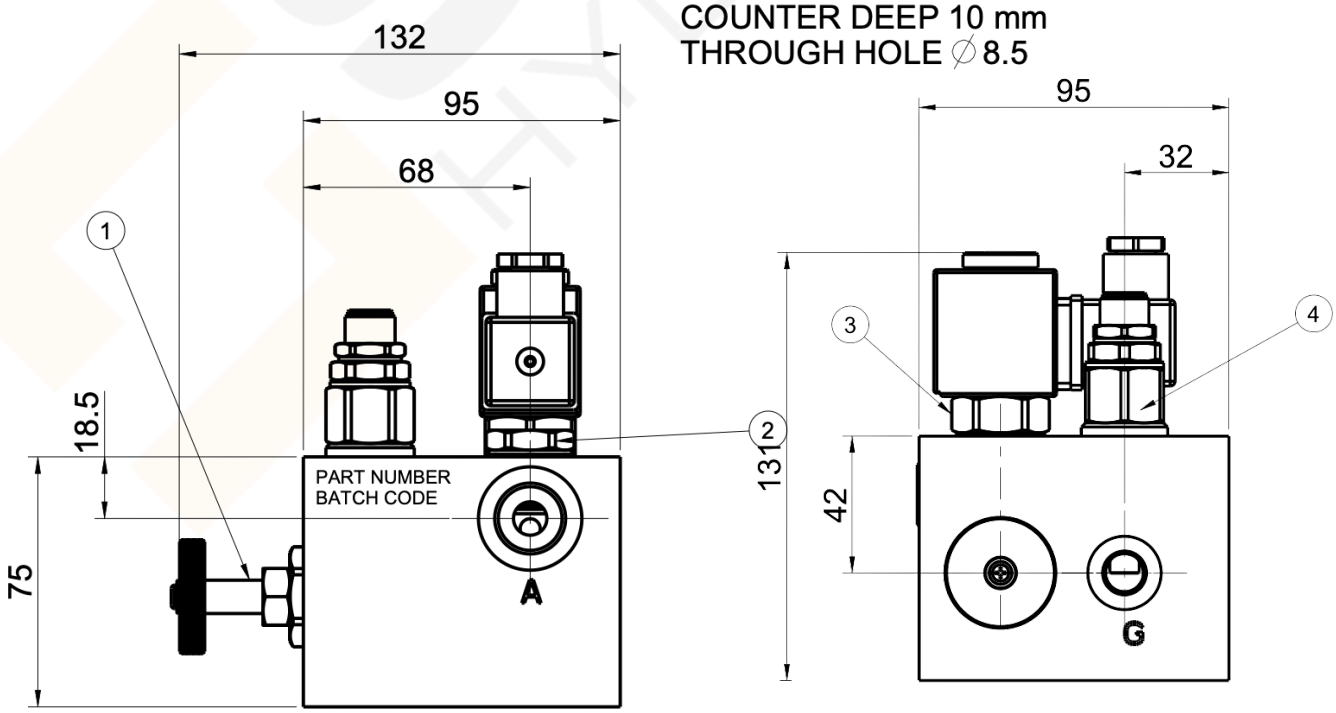
Hydraulic Circuit



PORT	
P,T,A	1/2"BSP
G	1/4"BSP

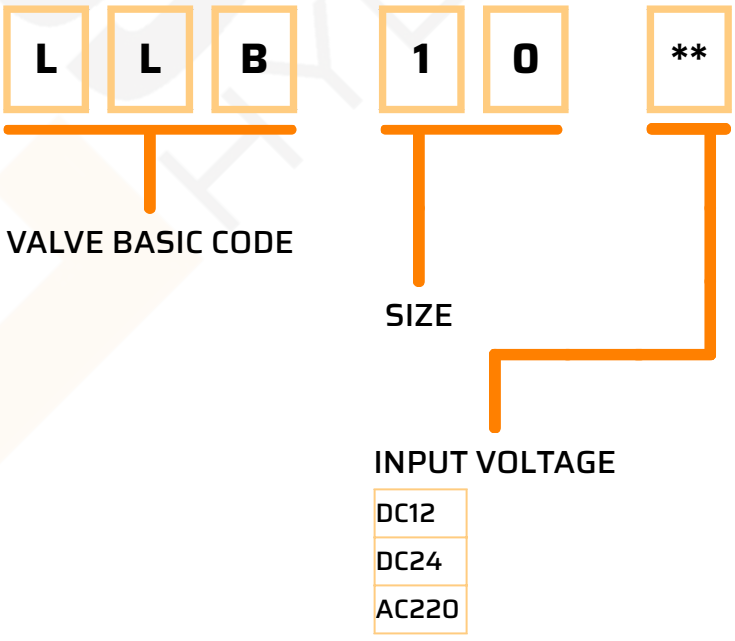




TECHNICAL DATA

Model	LLB-10
Maximum Flow Rate [l/min]	80 LPM
Maximum Working Pressure [bar]	350 Bar
Material	Steel
Weight [Kg]	4.8
Minimum Working Voltage	90% of rated voltage
Seal material	NBR Seals
Temperature Range [°C]	-30 to +110
Oil Cleaniliness according to ISO4406	Class 20/18/15

ORDERING CODE



DESCRIPTION

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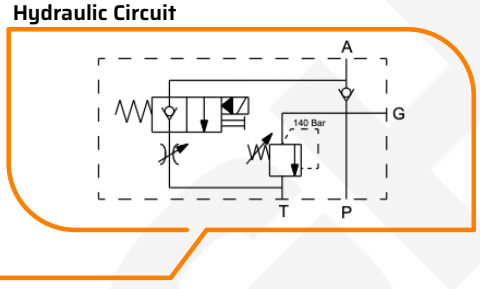
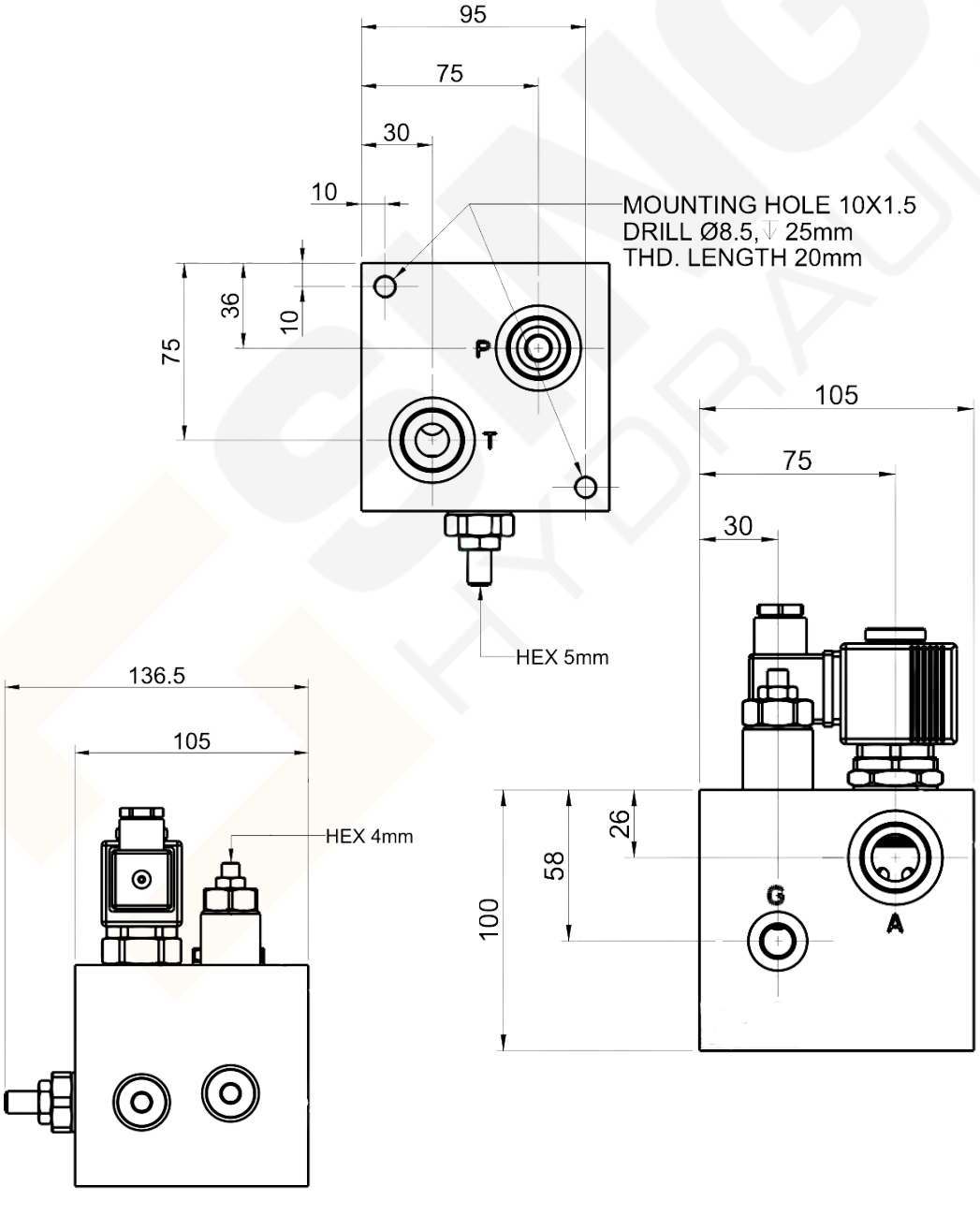
Hydraulic Circuit



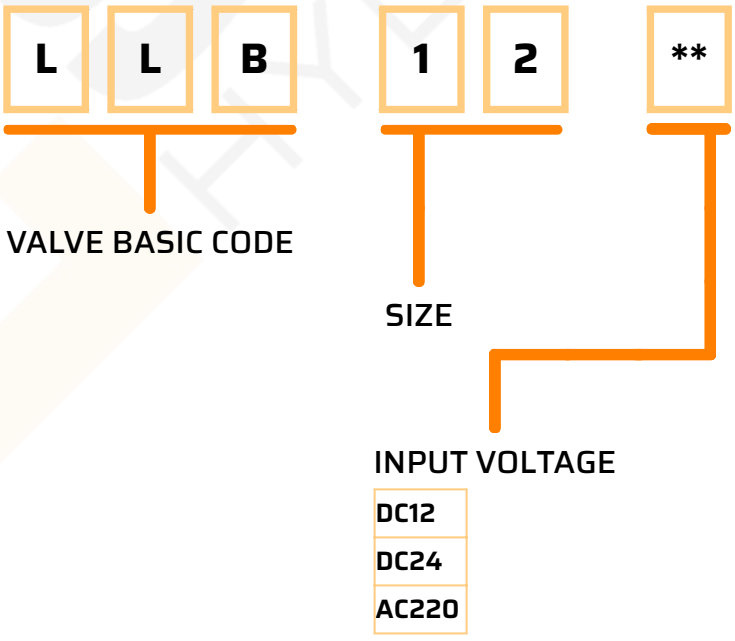
PORT	
P,T, A	3/4"BSP
G	1/4"BSP



TECHNICAL DATA

Model	LLB-12
Maximum Flow Rate [l/min]	120 Lpm
Maximum Working Pressure [bar]	220
Material	Aluminium
Weight [Kg]	3.6
Minimum Working Voltage	90% of rated voltage
Seal material	NBR Seals
Temperature Range [°C]	-30 to +110
Oil Cleaniliness according to ISO4406	Class 20/18/15

ORDERING CODE



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