All rights reserved by SMART HYDRAULICS.

SV/SL type of flow control check valve



ORDERING DETAILS

S _ _ _ _ _ 30 _ *

Series code
S = Flow control check valve

Drain port
V = Without drain port
L = With drain port

Specification

Type	SV		SL	
Oil Port	G	P	G	P
Specification 10	**10**	**10**	**10**	**10**
Specification 16	**15**	**15**	**15**	**15**
Specification 20	**20**	**20**	**20**	**20**
Specification 25	**25**	**25**	**25**	**25**
Specification 32	**30**	**30**	**30**	**30**

Connection
P = Sub-plate mounting
G = Thread connection

Pilot valve
A = With pilot valve
B = Without pilot valve

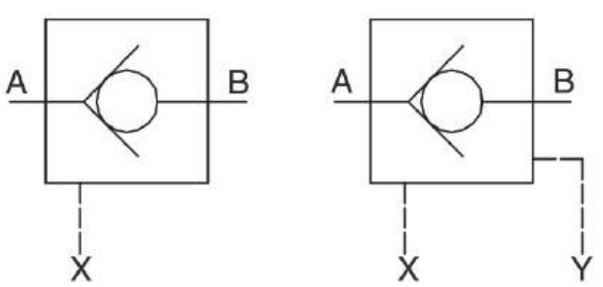
Starting pressure
1, 2, 3

Series number
30 = 30series (30~39=connection and installation dimension without interchangeable)

Hydraulic oil
No code = Mineral oil with DIN51524 and DIN51525 organic phosphate

Explain Other details with words

SYMBOLE



Function

Valve code	A1(cm²)	A2(cm²)	A3(cm²)	A4(cm²)
SV10-SL10	1.13	0.28	3.15	0.50
SV15:SV20:SL15:SL20	3.14	0.78	9.62	1.13
SV25:SV30:SL25:SL30	5.30	1.44	15.90	1.54

TECHNICAL DATA

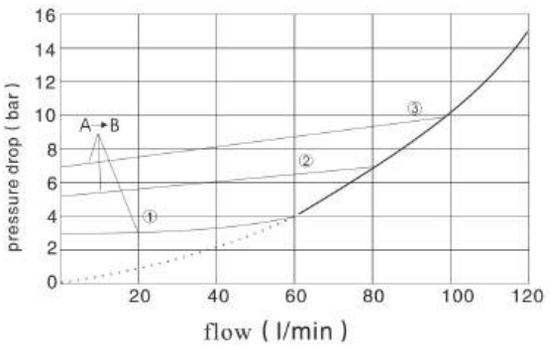
Hydraulic symbol

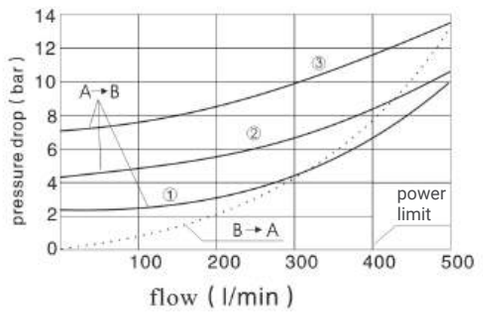
Valve type		SV10	SL10	SV15&20	SL15&20	SV15&30	SL15&30
Controlling-volume of X port	cm³	2.2		8.7		17.5	
Viscosity range	cm³	-	1.9	-	7.7	-	15.8
Direction of fluid flow		Free flow from A-B, free flow from B-A(when controlling by pilot valve)					
Working pressure	bar	...315					
Controlling pressure	bar	5...315					
Working fluid		Mineral oil with organic phosphate DIN51524 and DIN51525					
Range of oil temperature	°C	-30~+70					
Range of viscosity	cst	2.8~380					

		SV/SL10	SV15&20	SL15&20	SV/SL25	SV/SL30
Weight	kg	2.5	4.0	4.5	8.0	

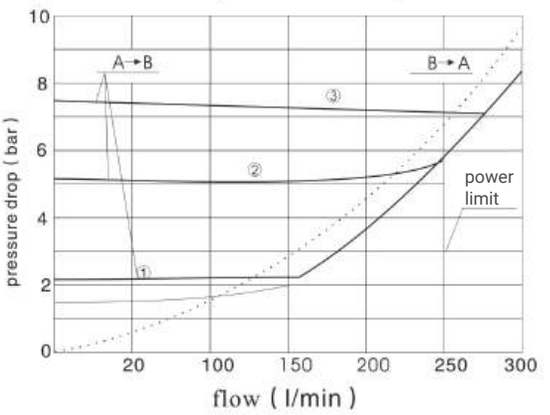
CHARACTERISTIC CURVE

[pressure drop-flow curve]



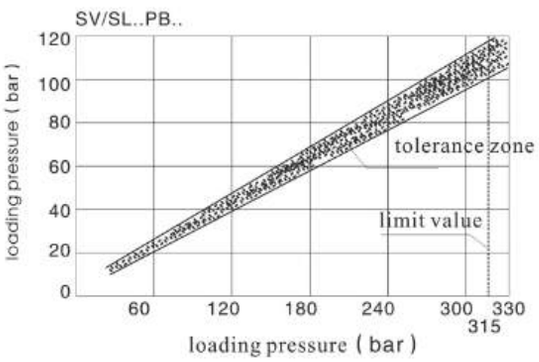


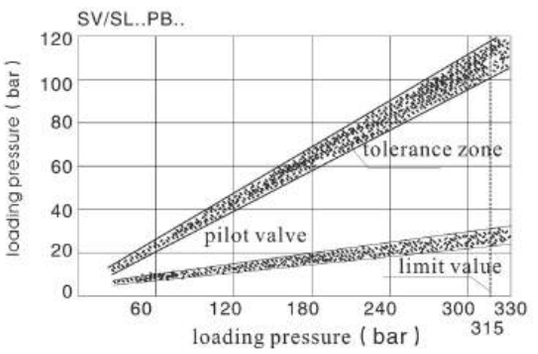
[pressure drop-flow curve]



curve O is used to start pressure 1.2 and 3

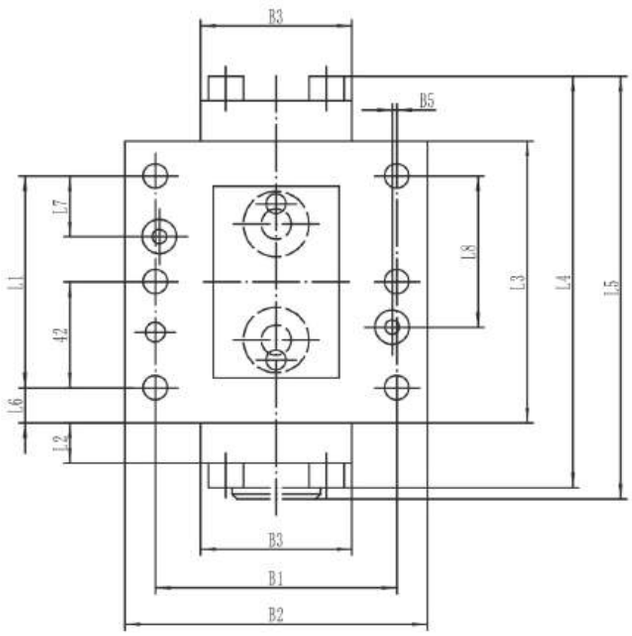
curve of controlling pressure / loading pressure

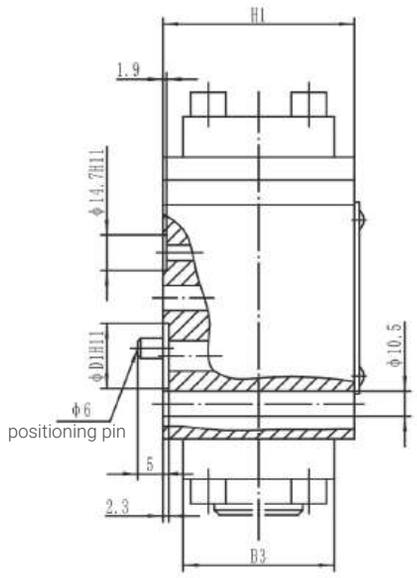




All rights reserved by SMART HYDRAULICS.

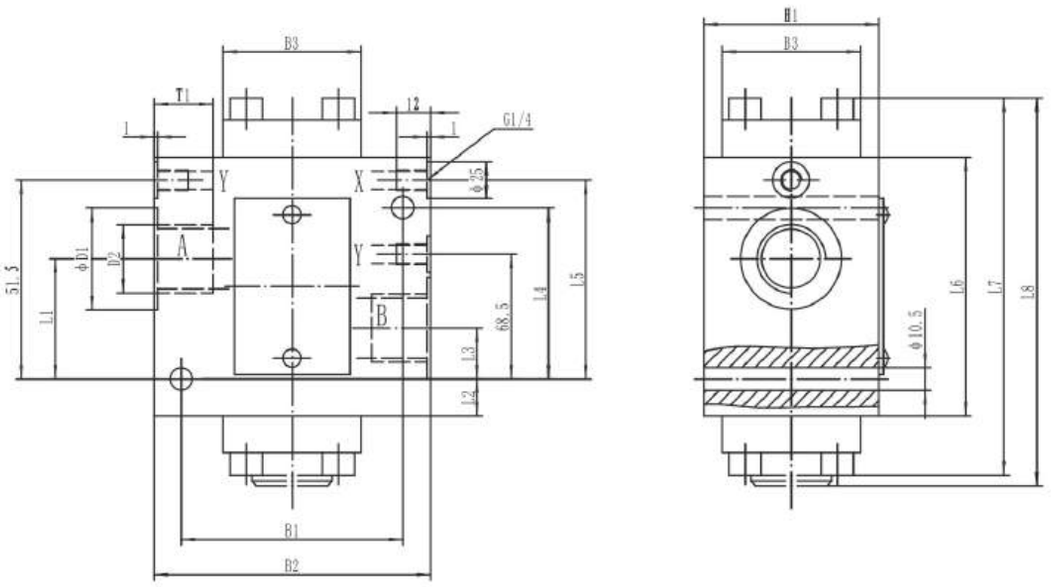
UNIT DIMENSIONS





Valve code	B1	B2	B3	D1	D2
SV10	66.5	85	40	34	G1/2
SV15	79.5	100	55	42	G3/4
SV20	79.5	100	55	47	G1
SV25	97	120	70	58	G1 1/4
SV30	97	120	70	65	G1 1/2
SV10	66.5	85	40	34	G1/2
SV15	79.5	100	55	42	G3/4
SV20	79.5	100	55	47	G1
SV25	97	120	70	58	G1 1/4
SV30	97	120	70	65	G1 1/2

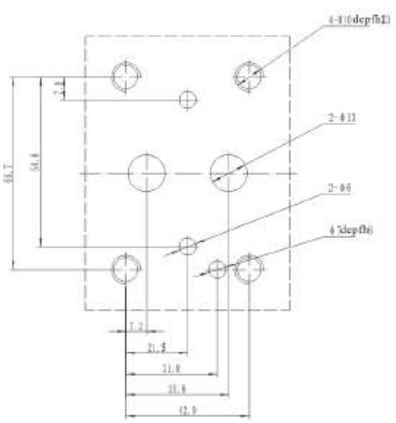
Valve code	H	L1	L2	L3	L4	L5	L6	L7	L8	T1
SV10	42	27.5	18.5	10.5	33.5	49	80	116	116	14
SV15	57	36.7	17.5	13.3	50.5	67.5	95	135	146	16
SV20	57	36.7	17.5	13.3	50.5	67.5	95	135	146	18
SV25	75	54.5	15.5	20.5	73.5	89.5	115	173	179	20
SV30	75	54.5	15.5	20.5	73.5	89.5	115	173	179	22
SV10	42	22.5	18.5	10.5	33.5	49.5	80	116	116	14
SV15	57	30.5	17.5	13	50.5	72.5	100	140	140	16
SV20	57	30.5	17.5	13	50.5	72.5	100	140	140	18
SV25	75	54.5	15.5	20.5	84	99.5	125	183	183	20
SV30	75	54.5	15.5	20.5	84	99.5	125	183	183	22



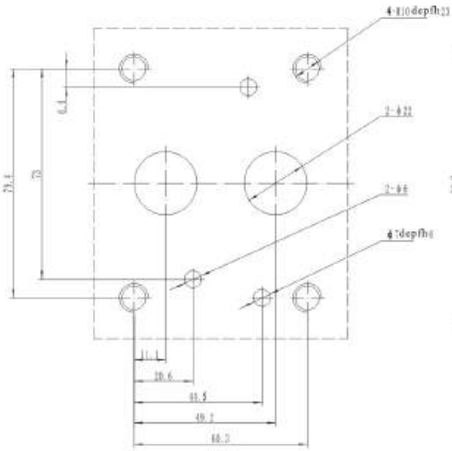
Valve code	B1	B2	B3	B4
SV10	66.5	85	40	58.8
SV20	79.5	100	55	73
SV30	97	120	70	92.8
SL10	66.5	85	40	58.8
SL20	79.5	100	55	73.8
SL30	97	120	70	92.8

Valve code	B5	D1	H1	L1	L2	L3	L4	L5	L6	L7	L8
SV10	-	20.6	42	43	10	80	116	116	18.5	21.5	-
SV20	-	29.4	57	60.5	10	95	135	151	17.3	20.6	-
SV30	-	39.2	75	84	17	115	173	189	15.5	24.6	-
SL10	7.9	20.6	42	43	10	80	116	116	18.5	21.5	21.5
SL20	6.4	29.4	57	60.5	-	100	140	151	17.3	20.6	39.7
SL30	3.8	39.2	75	84	17	125	183	189	15.5	24.6	59.5

SV/SL10



SV/SL20



SV/SL30

