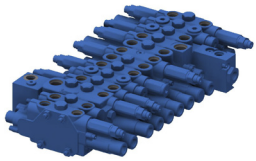
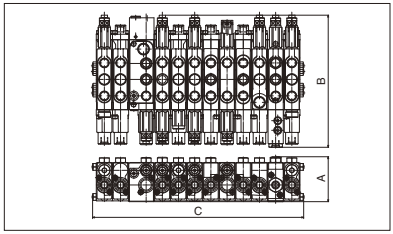
NSC/BCV Series





[Main Application]

○Main control valves for mini hydraulic excavators

[Features]

○Supports complex operations required of a mini hydraulic excavator
○Compact design with highly flexible layout

■Specification

		NSC10	BCV35	BCV65
Structure		Sectional Type	Sectional Type	Sectional Type
Number of Pumps		2 or 3	2 or 3	3
Max. Pressure	MPa	20.6	24.5	24.5
Rated Flow Rate	L/min	15	35	65
Spool Operation	Manual	✓	✓	✓
	Pilot	✓	✓	✓
	Solenoid	-	-	-
Applicable Excavator Weight (ref.)	ton	0.5~1.9	2~4	4~6

✓: Available

■Optional Functions

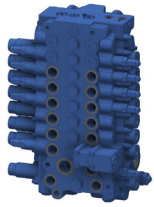
		NSC10	BCV35	BCV65
Pump Unload		✓	✓	✓
Travel	Straight	✓*	✓	✓
	Independent	✓*	✓	✓
Confluence	Option Section	✓	✓	✓
	Arm	✓	✓	✓
	Boom	✓	✓	✓
Floating	Dozer	-	✓	-
Holding Valve	Boom	✓	✓	✓
Signal Circuit	Auto Idling	-	✓	✓
	Travel Signal	-	✓	✓

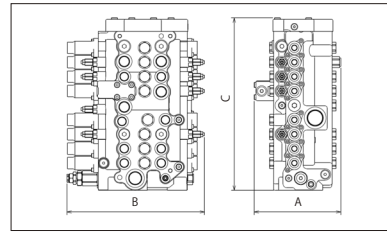
* Some exceptions exist ✓: Available

■Outline Dimensions

		NSC10	BCV35	BCV65
A	mm	73.5	86	107
B	mm	234	253	315
C	mm	Depends on number of blocks	Depends on number of blocks	Depends on number of blocks
Bank Width	mm	24	31	38

iB Series





[Main Application]

◯Main control valve for small construction machinery

[Features]

◯Utilization of proprietary road sensing system

◯Energy savings through efficient regeneration and bleeding circuit

■Specification

		IB18
Structure		Mono-block Type
Number of Pumps		1
Max. Pressure	MPa	32
Rated Flow Rate	L/min	190
Spool Operation	Manual	-
	Pilot	✓
	Solenoid	-
Standard Number of Blocks		9
Additional Blocks		✓
Applicable Excavator Weight (ref.)	ton	7~9

✓: Available

■Optional Functions

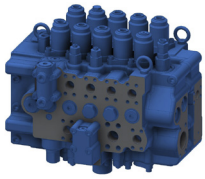
		IB18
Regeneration	Boom	✓
	Arm	✓
Pressure Rise		✓
Holding Valve	Boom	✓
Signal Circuit	Auto Idling	✓

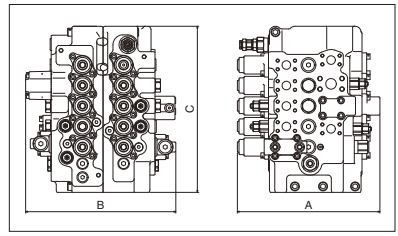
✓: Available

■Outline Dimensions

		IB18
A	mm	229.5
B	mm	364
C	mm	455

UN (UK) Series





[Main Application]

○Main control valve for medium and large construction machinery

[Features]

○High flow rate and minimal pressure drop are realized by optimizing the internal passage.

○Playback function, priority function, and other functions are available to meet customer needs

■Specification

		UN22	UN28	UN32	UK36
Structure		2 Blocks	2 Blocks	2 Blocks	3 Blocks
Number of Pumps		2	2	2	2
Max. Pressure	MPa	36	36	36	35
Rated Flow Rate	L/min	160×2	260×2	330×2	540×2
Spool Operation	Manual	-	-	-	-
	Pilot	✓	✓	✓	✓
	Solenoid	-	-	-	-
Standard Number of Blocks		9	9	9	9
Additional Blocks		✓	✓	-	-
Applicable Excavator Weight (ref.)	ton	11~16	16~24	24~36	36~

✓: Available

■Optional Functions

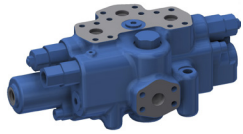
		UN22	UN28	UN32	UK36
Priority	Boom	✓	✓	✓	✓
	Swing	✓	✓	✓	✓
Travel	Straight	✓	✓	✓	✓
Regeneration	Boom	✓	✓	✓	✓
	Arm	✓	✓	✓	✓
Pressure Rise		✓	✓	✓	✓
Holding Valve	Boom	✓	✓	✓	✓
	Arm	✓	✓	✓	✓
Signal Circuit	Auto Idling	✓	✓	✓	✓
	Travel Independent	✓	✓	✓	✓

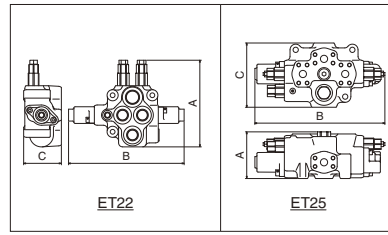
✓: Available

■Outline Dimensions

		UN22	UN28	UN32	UK36
A	mm	369	381.5	431	504.5
B	mm	386	431	454	656
C	mm	432.5	470.5	502	588

ET Series





[Main Application]

◯Optional control valve for medium-sized construction machinery

[Features]

◯Ideal as an additional optional control valve for bulldozers, etc.
◯Compact monoblocking with each port
◯Pressure-resistant performance in line with that of the main control valve

■Specification

		ET22	ET25
Structure		Mono-block Type	Mono-block Type
Number of Pumps		1	1
Max. Pressure	MPa	34.3	34.3
Rated Flow Rate	L/min	160	260
Spool Operation	Manual	-	-
	Pilot	✓	✓
	Solenoid	-	-
Standard Number of Blocks		1	1
Additional Blocks		-	-
Applicable Excavator Weight (ref.)	ton	11~16	16~24

✓: Available

■Optional Functions

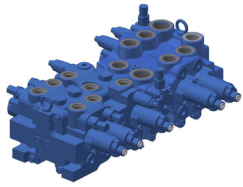
	ET22	ET25
Port Relief Valve	✓	✓
Signal Circuit	✓	-
Additional Pump	-	✓
Carry-over	-	✓

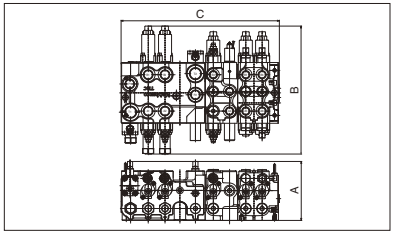
✓: Available

■Outline Dimensions

		ET22	ET25
A	mm	218.2	123.5
B	mm	291	344
C	mm	96	170

TRC Series





[Main Application]

○Main control valves for rough terrain cranes, truck cranes, etc.

[Features]

○Pressure compensation function enables stable operation regardless of load fluctuation.

○Winch confluence circuit is available

■Specification

		TRC200
Structure		Semi/Mono-block Type
Number of Pumps		2
Max. Pressure	MPa	27.5
Rated Flow Rate	L/min	200×2
Spool Operation	Manual	-
	Pilot	✓
	Solenoid	-

✓: Available

■Optional Functions

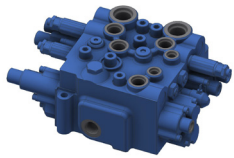
	TRC200
Pressure Compensator	✓
Winch Confluence	✓
Accessary Valve	✓
Relief Valve with Vent Port	✓

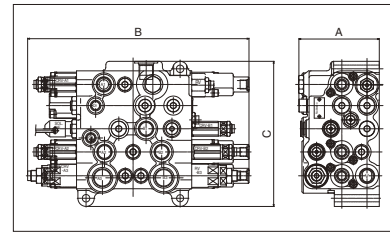
✓: Available

■Outline Dimensions

		TRC200
A	mm	218
B	mm	472
C	mm	584

SLV Series





[Main Application]

◯Main control valves for skid steer loaders, compact track loaders, etc.

[Features]

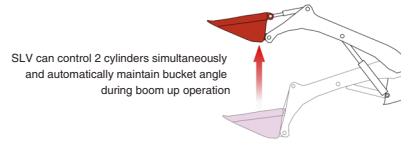
◯Integration of arm and bucket operation valves and horizontal control valve

◯Realization of bucket leveling operation by arm operation only

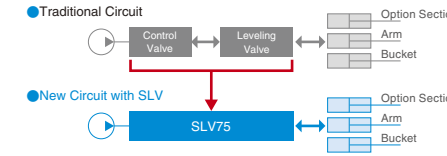
■Specification

		SLV75
Structure		Mono-block Type
Number of Pumps		1
Max. Pressure	MPa	24.5
Rated Flow Rate	L/min	75
Spool Operation	Manual	-
	Pilot	✓
	Solenoid	-
Self Leveling	Up	✓
	Down	-
	Cancellation	-
	Divider Ratio Adjustment	✓

✓: Available



Hydraulic Circuit



■Optional Functions

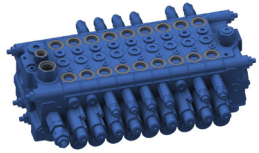
		SLV75
Accessary Valve		✓
Option Section		✓
Floating	Arm	✓
Port Size	Arm	G1/2
	Bucket	G1/2
	Option Section	G3/4

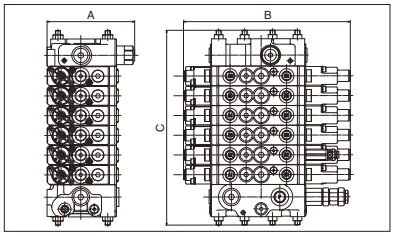
✓: Available

■Outline Dimensions

		SLV75
A	mm	118
B	mm	325
C	mm	213

NLSV Series





[Main Application]

○Main control valves for elevated work vehicles, mini hydraulic excavators, etc.

[Features]

○Utilization of proprietary road sensing system
○Excellent combined operability with pressure compensation and anti-saturation function
○Selectable hydraulic pilot operation and electromagnetic proportional operation

■Specification

		NLSV14
Structure		Sectional Type
Number of Pumps		1
Max. Pressure	MPa	29.4
Rated Flow Rate	L/min	80
Spool Operation	Manual	-
	Pilot	✓
	Solenoid	✓
Standard Number of Blocks		6
Additional Blocks		✓

✓: Available

■Optional Functions

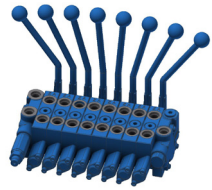
	NLSV14
Pressure Compensator	✓
Anti-saturation	✓
Regeneration	✓
Pressure Rise (M/R)	✓

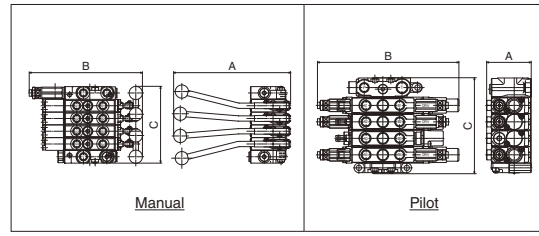
✓: Available

■Outline Dimensions

		NLSV14
A	mm	169
B	mm	321.9
C	mm	Depends on number of blocks
Bank Width	mm	38

NSC/SC/BCV Series (Manual/hydraulic pilot operation)





[Main Application]

◯Control valves for truck-mounted cranes, agricultural machinery, various special purpose vehicles, etc.

[Features]

◯Combination of 1 to 10 series is possible.
◯Parallel and tandem circuits configurations are possible

■Specification

		NSC10	SC3A	BCV35
Structure		Sectional Type	Sectional Type	Sectional Type
Number of Pumps		1	1	1
Max. Pressure	MPa	20.6	20.6	24.5
Rated Flow Rate	L/min	15	50	35
Spool Operation	Manual	✓	✓	✓
	Pilot	✓	-	✓
	Solenoid	-	-	-

✓: Available

■Optional Functions

		NSC10	SC3A	BCV35
Pump Unload		✓*	✓*	-
Manual Lever		✓	✓	-
Carry-over		✓	✓	✓
Accessary Valve		✓	✓*	✓
Detent		✓*	✓*	✓*
Circuit Type	Parallel	✓	✓	✓
	Tandem	✓*	✓*	✓
	Series	-	-	-

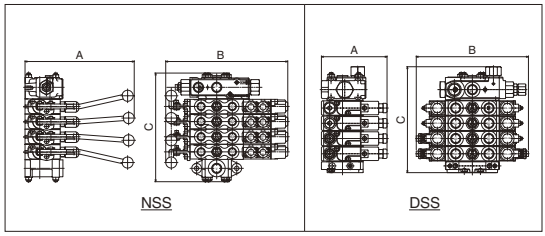
*Depends on circuit structure ✓: Available

■Outline Dimensions

		NSC10	SC3A	BCV35
A	mm	221*	246*	84
B	mm	213	220	266
C	mm	Depends on number of blocks	Depends on number of blocks	Depends on number of blocks
Bank Width	mm	24	34	31

*Including lever

NSS/DSS Series (Electromagnetic operation)



[Main Application]

○Control valves for truck-mounted cranes, agricultural machinery, various special purpose vehicles, etc.

[Features]

○In addition to electromagnetic operation, emergency operation by lever or manual operation pin is also possible

○Parallel and tandem circuits configurations are possible

■Specification

		NSS50	DSS50
Structure		Sectional Type	Sectional Type
Number of Pumps		1	1
Max. Pressure	MPa	20.6	20.6
Rated Flow Rate	L/min	50	50
Spool Operation	Manual	✓	✓
	Pilot	✓	✓*
	Solenoid	-	-

*Enable to change-over by push-pin in emergency ✓: Available

■Optional Functions

		NSS50	DSS50
Pump Unload		✓*	-
Manual Lever		✓	-
Accessary Valve		-	✓
Circuit Type	Parallel	✓	✓
	Tandem	✓	✓
	Series	-	-

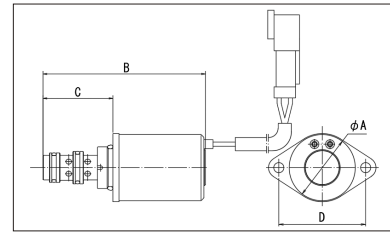
*Depends on circuit structure ✓: Available

■Outline Dimensions

		NSS50	DSS50
A	mm	246*	146
B	mm	274	250
C	mm	Depends on number of blocks	Depends on number of blocks
Bank Width	mm	34	34

*Including lever

EPRV Series



[Main Application]

◯Solenoid proportional pressure reducing valve for main spool control and pump regulator control of control valve

[Features]

◯Removable structure of the secondary pressure tip allows for space saving of the oil channel.
◯Superior controllability due to low hysteresis
◯Easier maintenance due to cartridge structure

■Specification

		EPRV
Structure		Cartridge Type
Max. Primary Pressure	MPa	6
Max. Back Pressure	MPa	1
Max. Flow Rate	L/min	10
Secondary Pressure	MPa	2.8
Solenoid Rated Voltage	V	24
	V	12
Pressure Control Type		Positive Control
		Negative Control

■Outline Dimensions

		EPRV
A	mm	35
B	mm	94
C	mm	37
D	mm	46