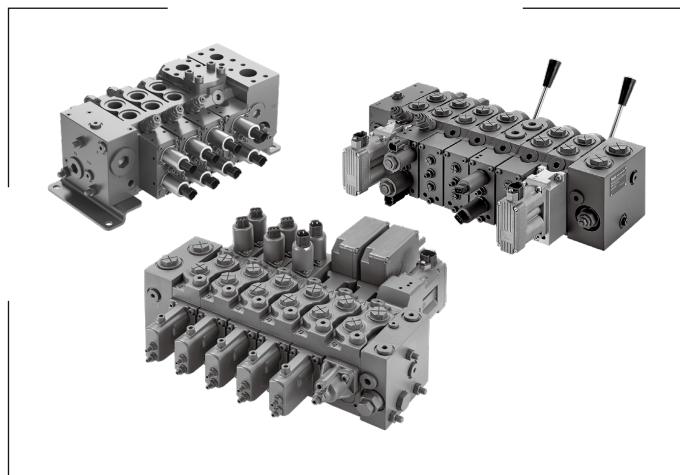


LSPV Series

LOAD SENSING PROPORTIONAL CONTROL VALVE



• Nominal Sizes	12	15	20	25
• Rated pressure(bar) (pump side)	350	350	350	350
(actuator side)	420	420	420	350

• Rated Flow (L/min)

120	200	400	500
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Features

1. System

Load pressure independent flow distribution

- Closed center, for load sensing variable pump system
- Open center, for fixed displacement pump system
- Priority function
- Various pilot control methods

2. Structure

• Sandwich plate of design

• Max. 15 middle section (LSPV12)

Max. 9 middle section (LSPV15)

Max. 9 middle section(LSPV20)

Max. 8 middle section(LSPV25)

3. Pressure

• Primary and secondary pressure relief valve

• LS relief valve: With LS pressure relief valve in each section

4. Flow

• Load pressure compensated

• Quick response

• Low hysteresis

5. Applications



Aerial work platform



Forestry machine



Drilling rigs



Mining truck



Concrete pump truck



Crane



Telehandler

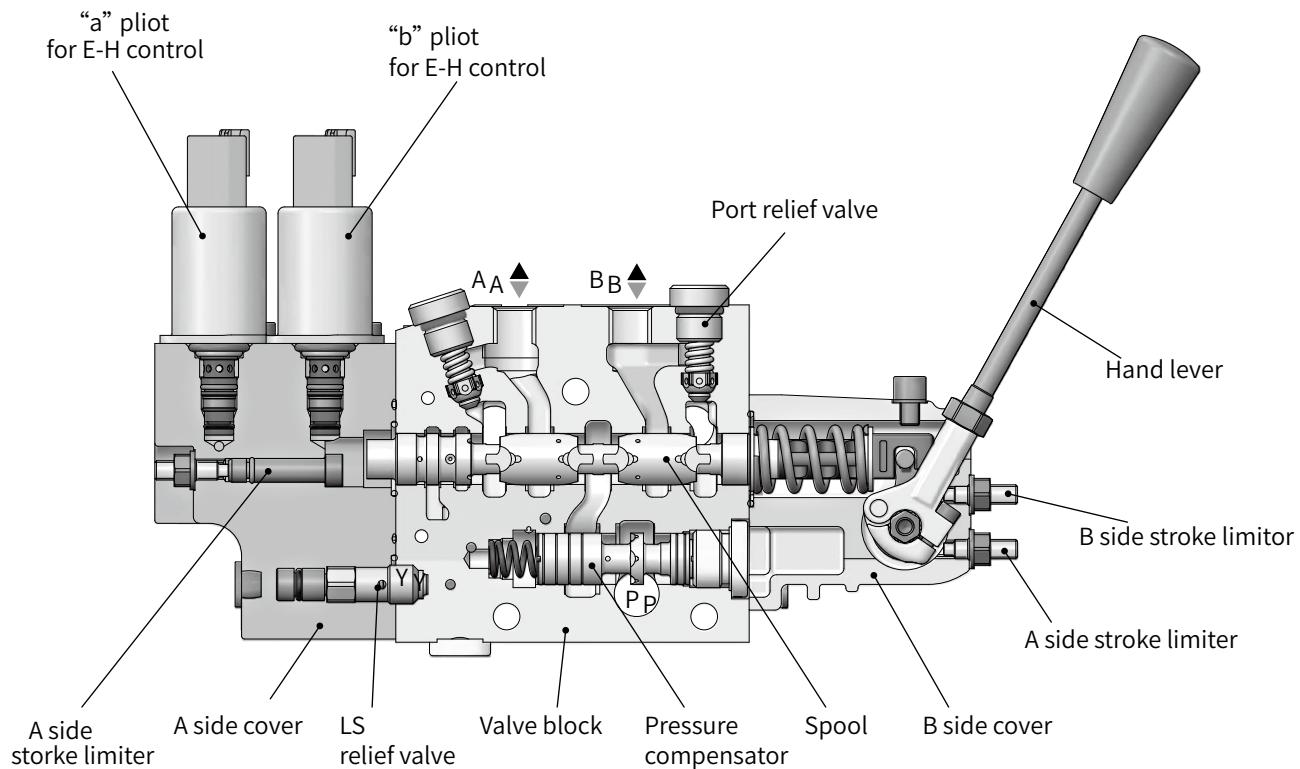


Stone Crusher

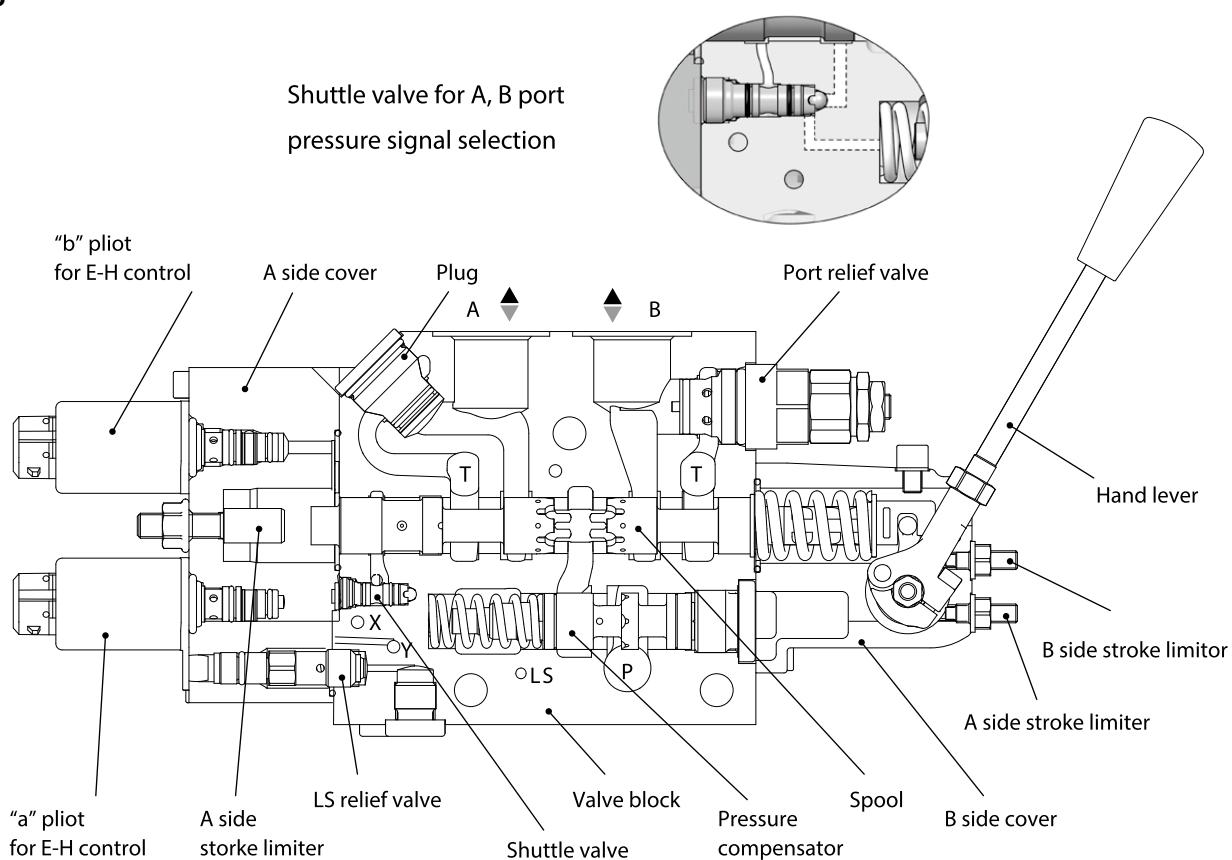


Section view

LSPV-12



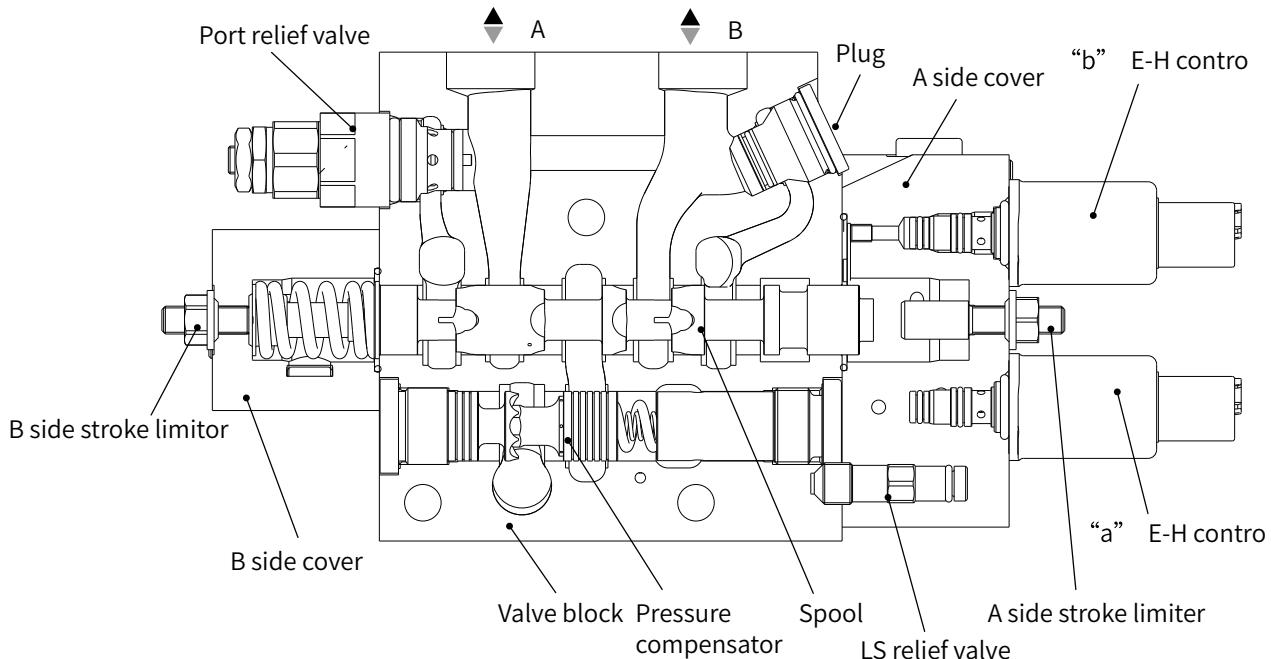
LSPV-15



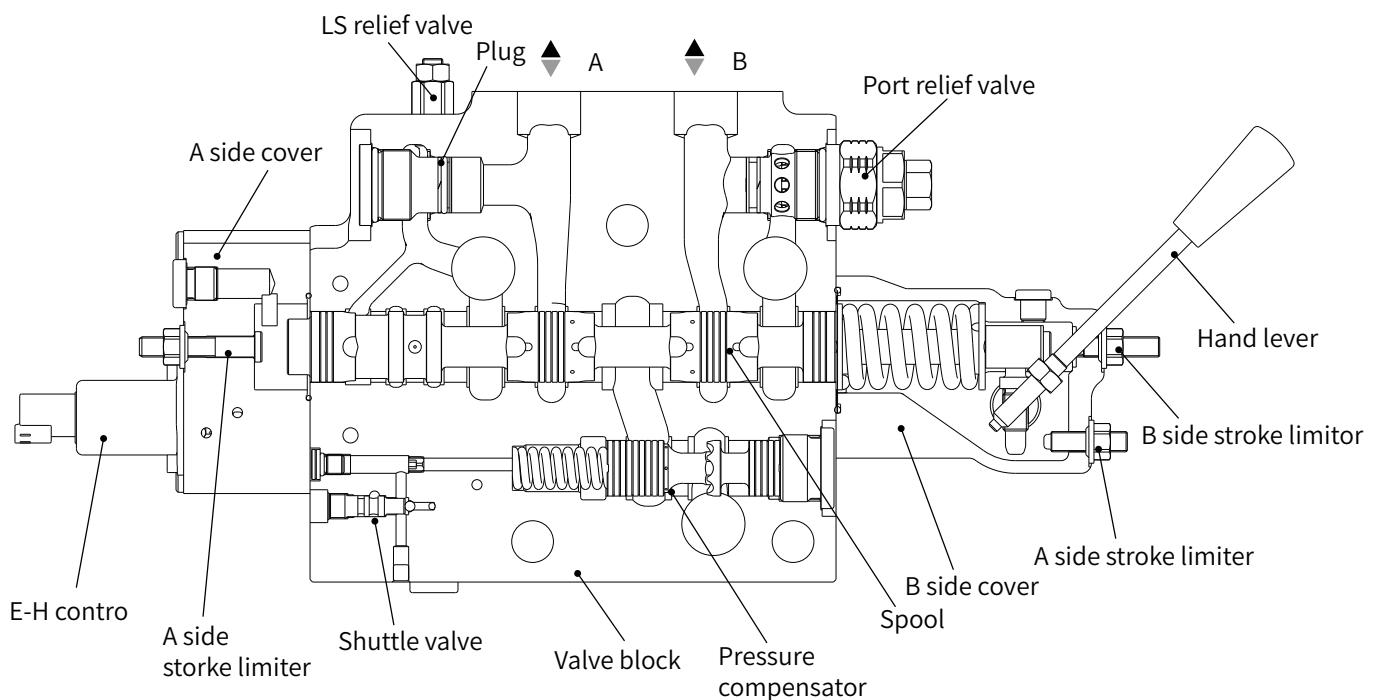


Section view

LSPV-20



LSPV-25





Technical data

General

Nominal Size			12	15	20	25
Structure	Stackable, proportional, load sensing, pre-compensated					
Type of connection	ISO BSP thread, metric thread, ISO 6162 flange interface (Please contact our company for other connection methods)					
Mass (kg)	Inlet element	Open center	5.53/5.29	9.8	17	26.2
		Closed center	4.34	6.5	13.5	25.3
	Middle section	Hydraulic operation	4.25	5.4	/	61.8
		Normal E-H operation	4.65	6.5	12.5	137.5
		Super E-H operation	4.95	7.5	13.5	148.8
	End element		3.09	4.5	8	14.5

Hydraulic

Nominal Size		12	15	20	25
Rated flow Q(L/min)	With load-holding function, without pressure compensator.	140	200	400	500
	Without load-holding function, with pressure compensator.	120	190		400
	With load-holding function, with pressure compensator.	120	150		400
Max. operating pressure at port (bar)	P	350			
	LS	330			
	A/B	420			350
	T	30			
	Y	Less than 2			
Pilot pressure (bar)	a/b	Less than 35			
	X	30			
Pilot pressure control range	For Hydraulic control	7~22bar(102~319psi)	8.5 ~22.5 bar(123 ~ 330 psi)		
Required control Δp at the control block		Compensator-S; C; T: 15bar (218psi) Recommended variable pump set pressure difference: 18~20bar (261~290psi)	Compensator-S; C: 18bar (260psi) Compensator-T: 25bar (360psi)	pressure difference: 25bar (261~290psi)	Compensator-T: 25bar (360psi)
Recommended hydraulic pilot control units		See H-2TH6 characteristic curve 97			
LS pressure relief function (adjustment ranges)		50 ~ 149 bar (725 ~ 2160psi); 150 ~ 350bar (2175 ~ 4800psi)		50 ~ 350 bar	

Electric

Normal E-H operation	<ul style="list-style-type: none"> Electrical on/off valve: Installed on the 'A' side cover Connection: Deutsch DT04-2P or AMP Junior-Timer Protection class: IP67 Supply voltage: 12 or 24VDC 	<ul style="list-style-type: none"> Electrical proportional valve: Installed on the 'A' side cover Dither frequency required: 150Hz Hysteresis: Less than 3%(at valid range) Connection: Deutsch DT04-2P or AMP Junior-Timer Protection class: IP67 Reducing pressure range: 0~30 bar Control current@24VDC: 0~800mA, @12VDC: 0~1500mA
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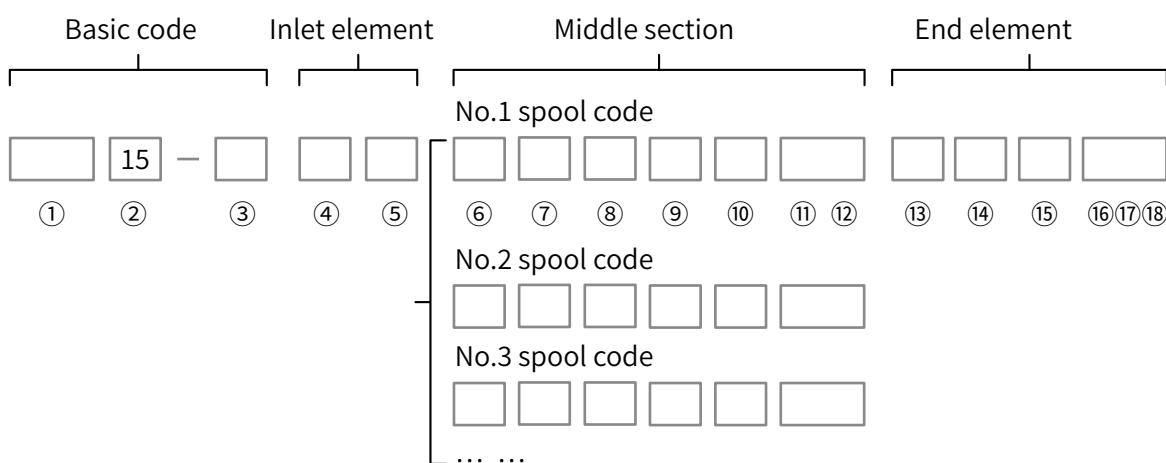
Using environment

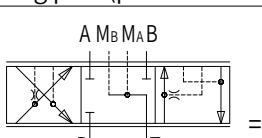
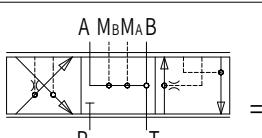
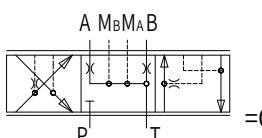
Hydraulic fluid	Mineral oil (HL, HLP) according to DIN 51524. Other hydraulic fluids, such as HEES (Synthetic Ester) according to VDMA 24568.
Hydraulic fluid temperature range(°C)	-20 to + 80
Viscosity range v (mm ² /s)	10 to 380
Maximum permissible degree of contamination of the pressure fluid cleanliness class to ISO 4406 (C)	Class 20/18/15, we therefore recommend a filter with a minimum retention rate of β10 ≥ 75

(For applications outside above mentioned parameters, please consult our sales dept.)



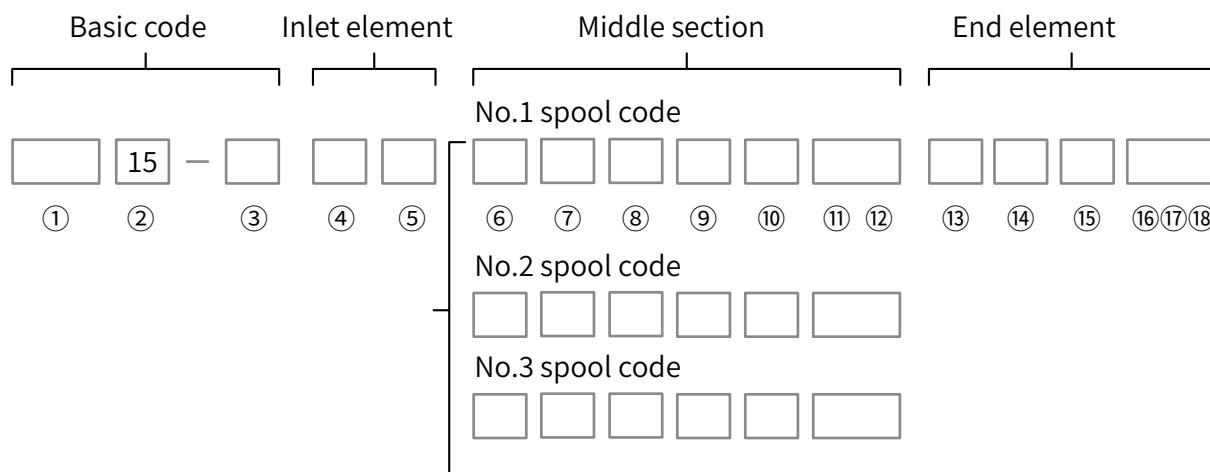
Ordering code



Basic code	① Structure	LSPV	Stackable, proportional control, load sensing, pressure compensated
	② Nominal size		12/15/20/25
	③ Number of blocks	..	01~09
Inlet element	④ Circuit types	J	Closed center, for variable piston pump system
		p	Open center, for fixed displacement pump system
	⑤ Main relief valve	Q	Without main pressure relief valve(not for open center)
		...	With main pressure relief valve,(pressure in bar, 3-digits)
	⑥ Spool function	S	With load-holding function, with pressure compensator
		T	Without load-holding function, with pressure compensator
		C	With load-holding function, without pressure compensator
Middle section	⑦ LS relief valve	QMQ	With LS pressure relief plug, with LS measuring port
		...M...	With LS pressure relief valve, with LS measuring port (pressure in bar, 3-digits)
		...MQ	Only with A port LS pressure relief valve, with LS measuring port (pressure in bar, 3-digits)
		QM...	Only with B port LS pressure relief valve, with LS measuring port (pressure in bar, 3-digits)
		...R...	With remote LS pressure relief valve, decreasing characteristic curve, with LS measuring port (pressure in bar, 3-digits)
		...L...	With remote LS pressure relief valve, increasing characteristic curve, with LS measuring port (pressure in bar, 3-digits)
		E	 =E
	⑧ Spool symbol	J	 =J
		Q	 =Q
	⑨ A/B flow	...—...	Flow in l/min, 3-digits, e.g. 50-50



Ordering code

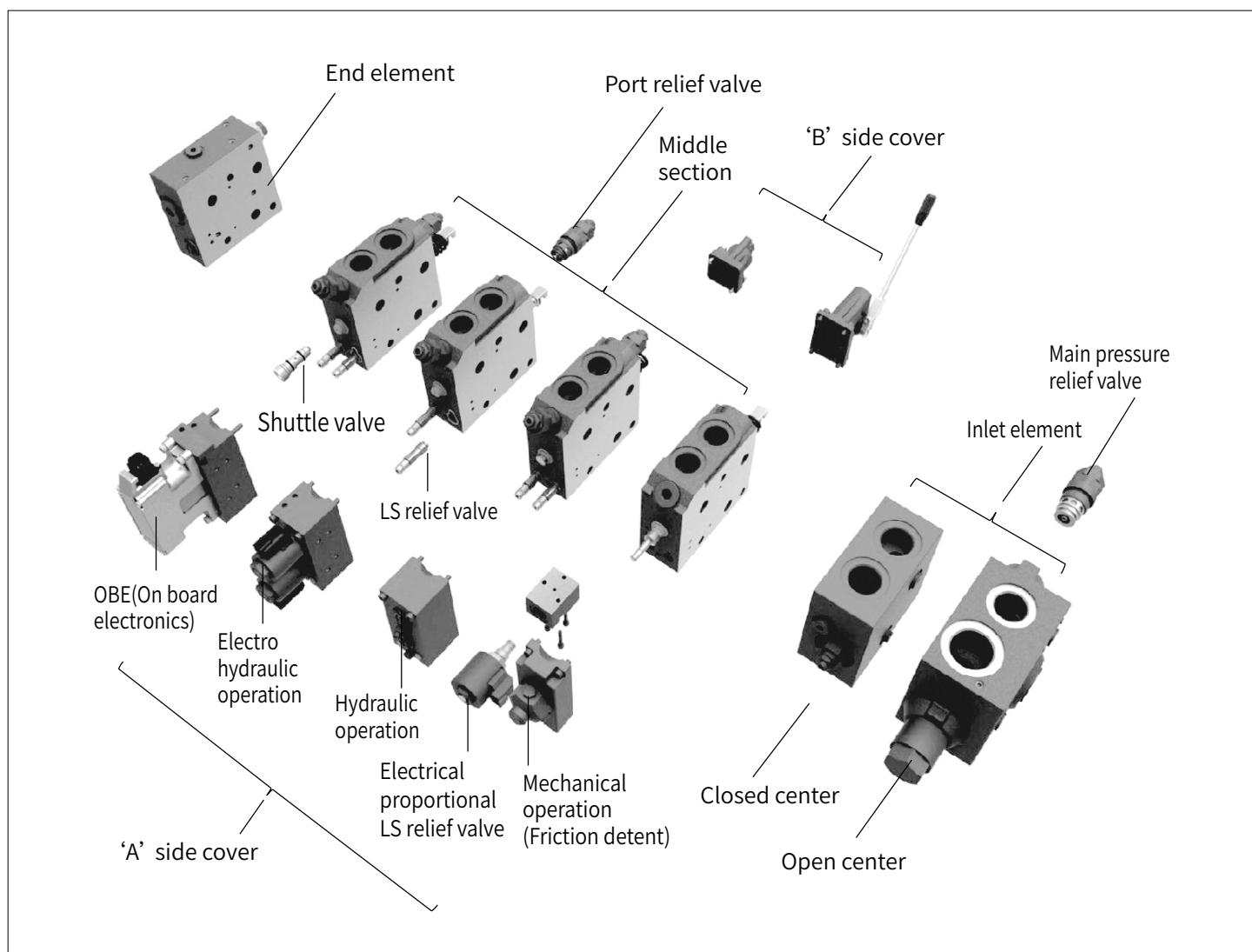


Middle section	⑩ 'A' side cover	M0	Mechanical, standard spring centered (M1: Mechanical, friction detent)	
		H	Hydraulic	
		W21	E-H operation, proportional control, 24V	
		W23	E-H operation, proportional control, 12V	
		W41	E-H operation, on/off control, 24V	
		W43	E-H operation, on/off control, 12V	
		OBE	Super high performance E-H control	
End element	⑪ 'B' side cover	Blank	Standard cover	
		1(K/L)	Hand lever	
			Hand lever position	
		K	L —**	
		2	Hand lever position 60°	Others (L—45°)
			Without hand lever (can be added if any demand)	
	⑫ A/B port relief valve	QQ	Plug, without relief valve (port relief valve can be added)	
		GG	Check valve, for anti-cavitation function	
		H....H...	H320H320, pressure in bar, pressure details of port relief valve in 3 digits	
Others	⑯ Sealing type	LZ	Without LS unload function	
		LA	With LS unload function	
	⑰ Design code	Blank	Without additional P port	
		PT	With additional P port	
	⑱ Special application	X	Internal pilot pressure supply	
		Y	External pilot pressure supply	
*	Other request	Further requirement in the clear text		



Ordering code

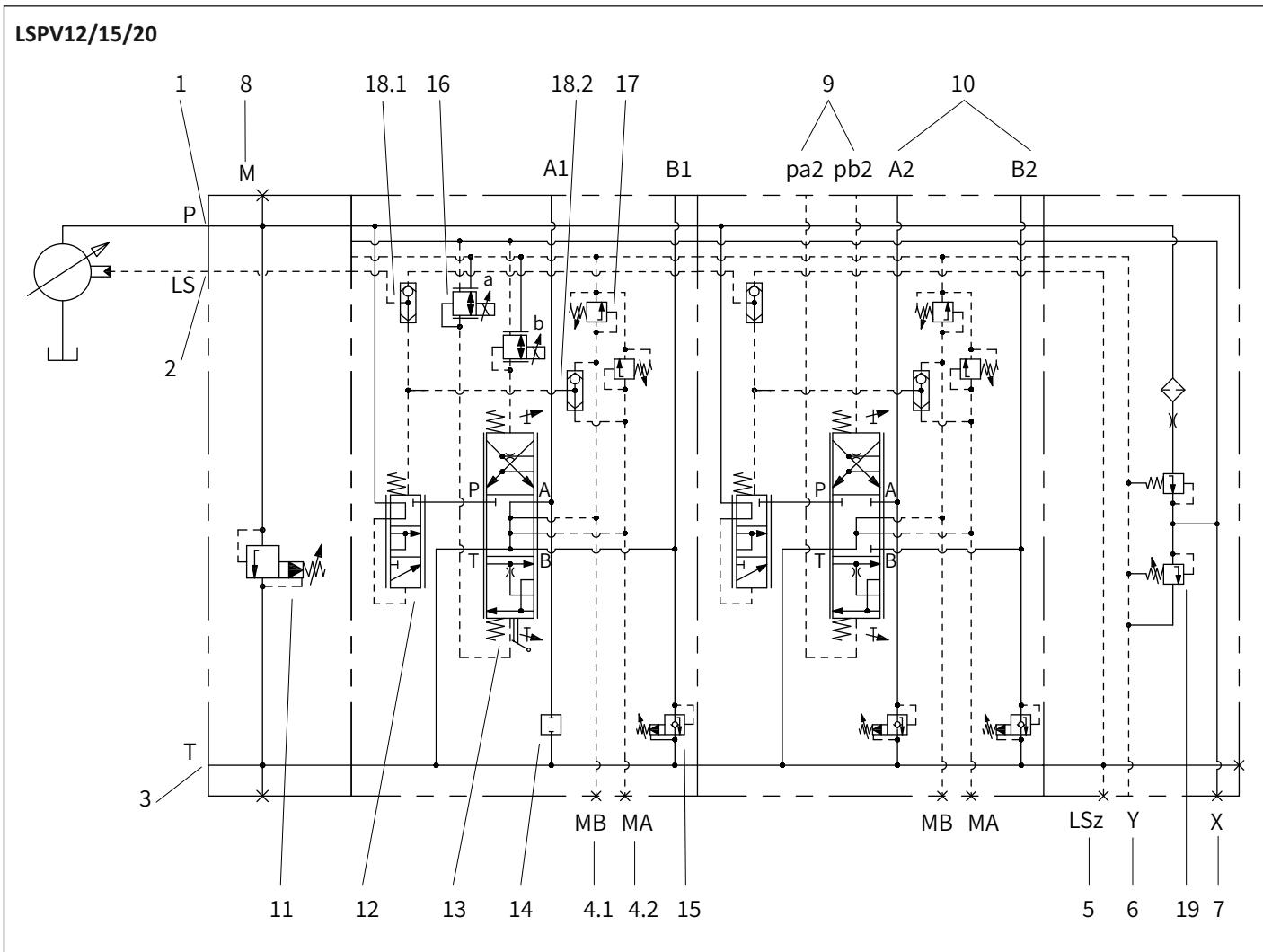
Basic code	LSPV12, LSPV15, LSPV20, LSPV25	
1- Inlet element	P	Open center, for fixed displacement pump system
	J	Closed center, for variable displacement pump system
2- Middle section	'A' side cover	M0 Mechanical, standard spring centered
		M1 Mechanical, friction detent
		H Hydraulic
		W21 E-H operation, proportional control, 24V
3- End element	'B'side cover	1K Hand lever
		Blank Standard cover
3- End element	LS unload	LZ Without LS unload function
		LA With LS unload function
	Pilot pressure control	X Internal pilot pressure supply
		Y



Exploded view (example: LSPV15)



Hydraulic Diagram



1. Pump connection

2. Load sensing port

3. Tank connection

4.1. B side LS pressure measure port

4.2. A side LS pressure measure port

5. Load-signal connection for parallel-valve (plugged)

6. No back pressure connection to tank

7. External pilot oil supply

8. Pump pressure measure port

9. Pilot port

10. Work port

11. Main pressure relief valve

12. Pressure compensator

13. Spool

14. Plug

15. Port pressure relief valve

16. Electrical proportional reducing valve

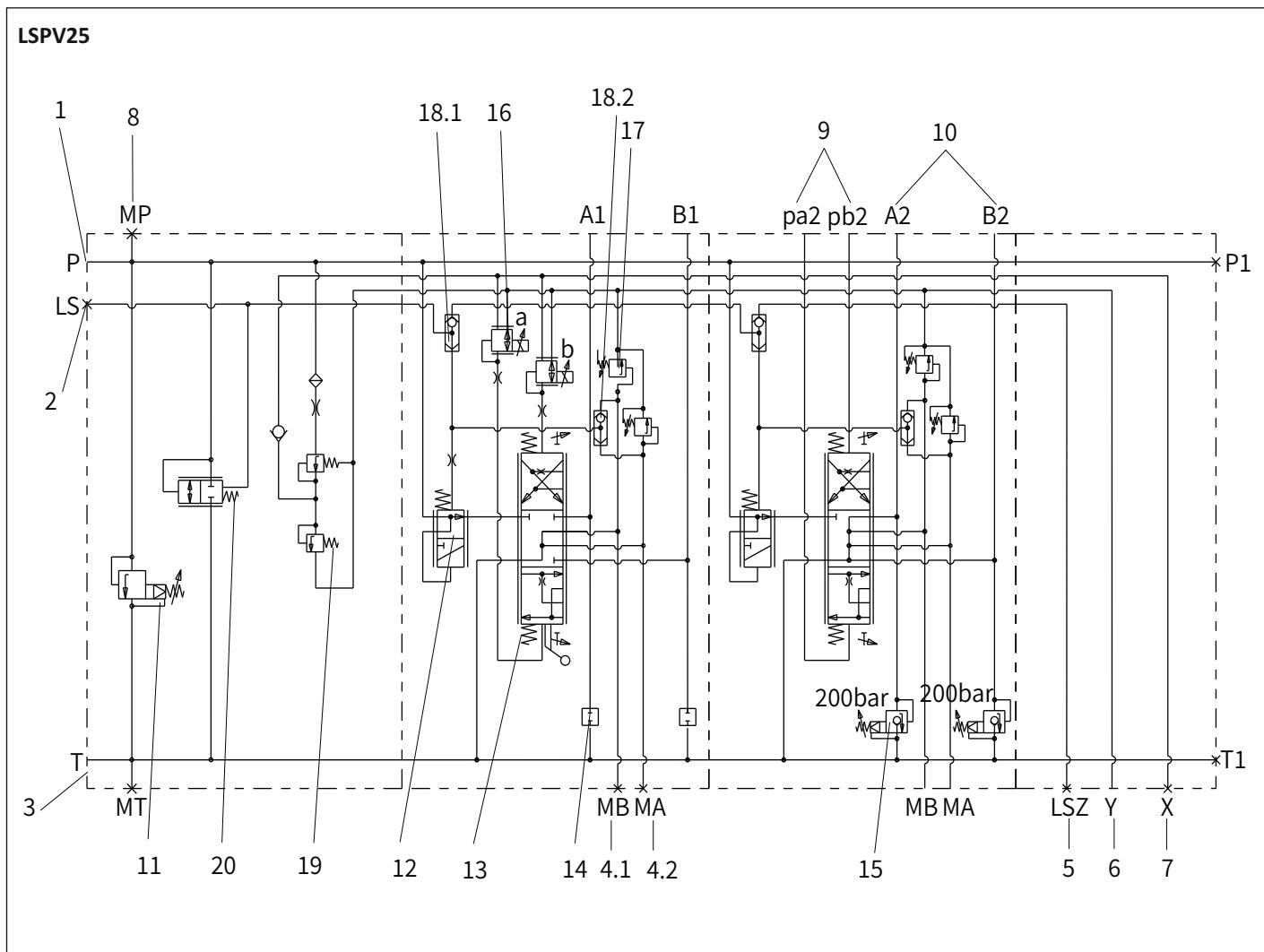
17. LS pressure relief valve

18.1 / 18.2. Shuttle valve

19. Pressure reducing and relief valve



Hydraulic Diagram



1. Pump connection

2. Load sensing port

3. Tank connection

4.1. B side LS pressure measure port

4.2. A side LS pressure measure port

5. Load-signal connection for parallel-valve (plugged)

6. No back pressure connection to tank

7. External pilot oil supply

8. Pump pressure measure port

9. Pilot port

10. Work port

11. Main pressure relief valve

12. Pressure compensator

13. Spool

14. Plug

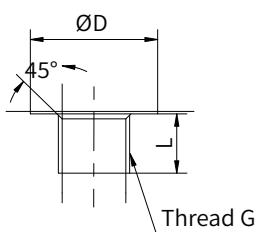
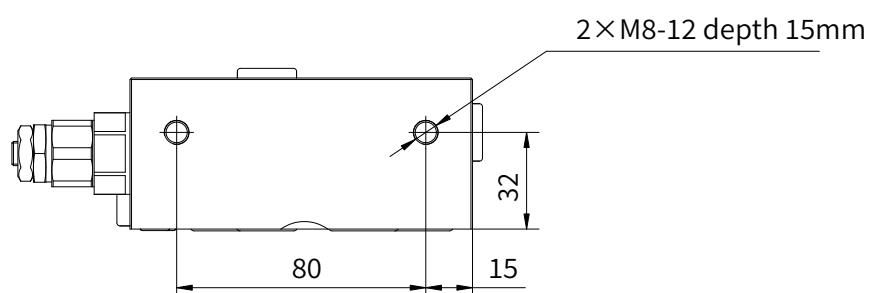
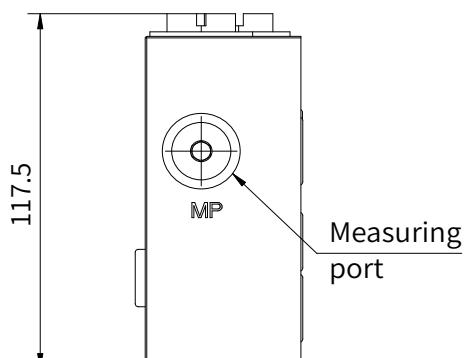
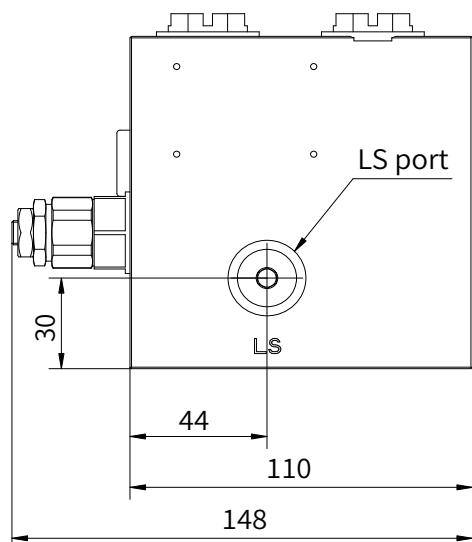
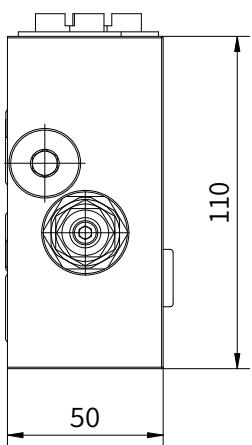
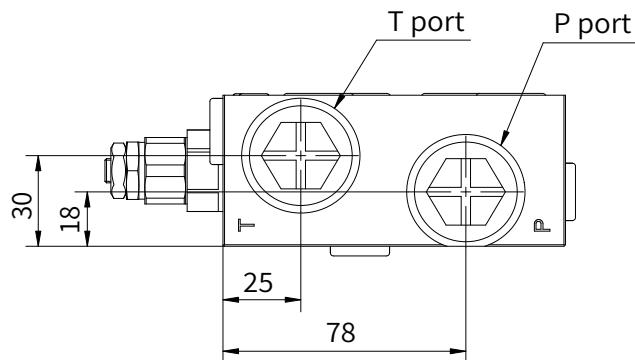
15. Port pressure relief valve

16. Electrical proportional reducing valve

17. LS pressure relief valve

18.1 / 18.2. Shuttle valve

19. Pressure reducing and relief valve

**Inlet Section - Closed Center****LSPV12****Port dimension**

P port:	G3/4
T port:	G3/4
LS port:	G1/4
Measuring port:	G1/4

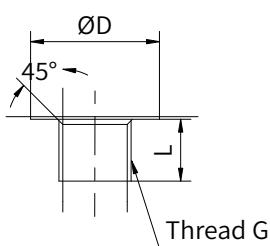
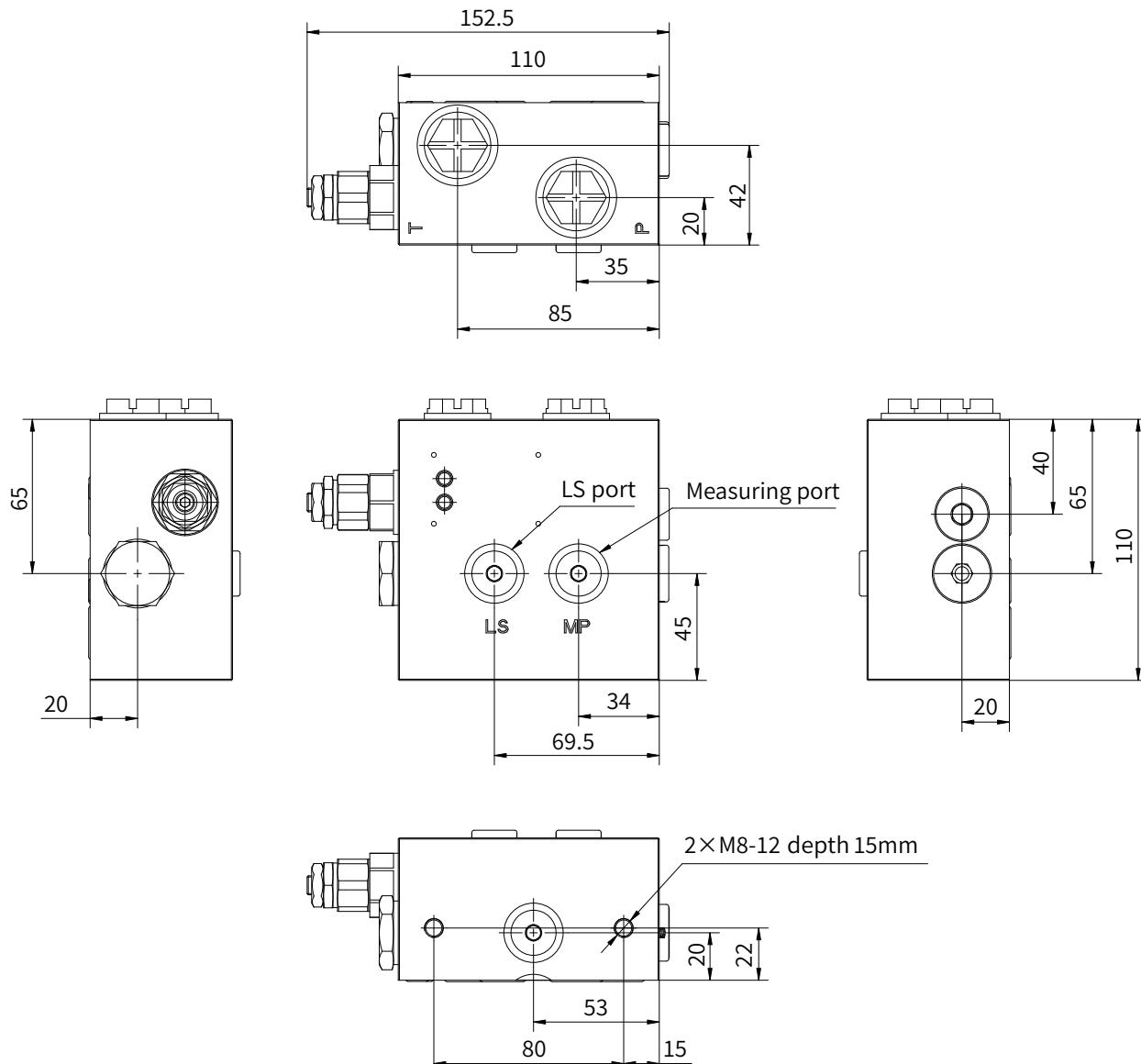
Thread dimensions

G3/4:	ØD 38	L 16
G1/4:	ØD 24	L 12



Inlet Section - Open Center

LSPV12



Port dimension

P port:	G1/2
T port:	G1/2
LS port:	G1/4
:	G1/4

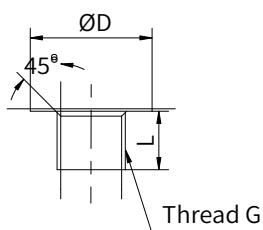
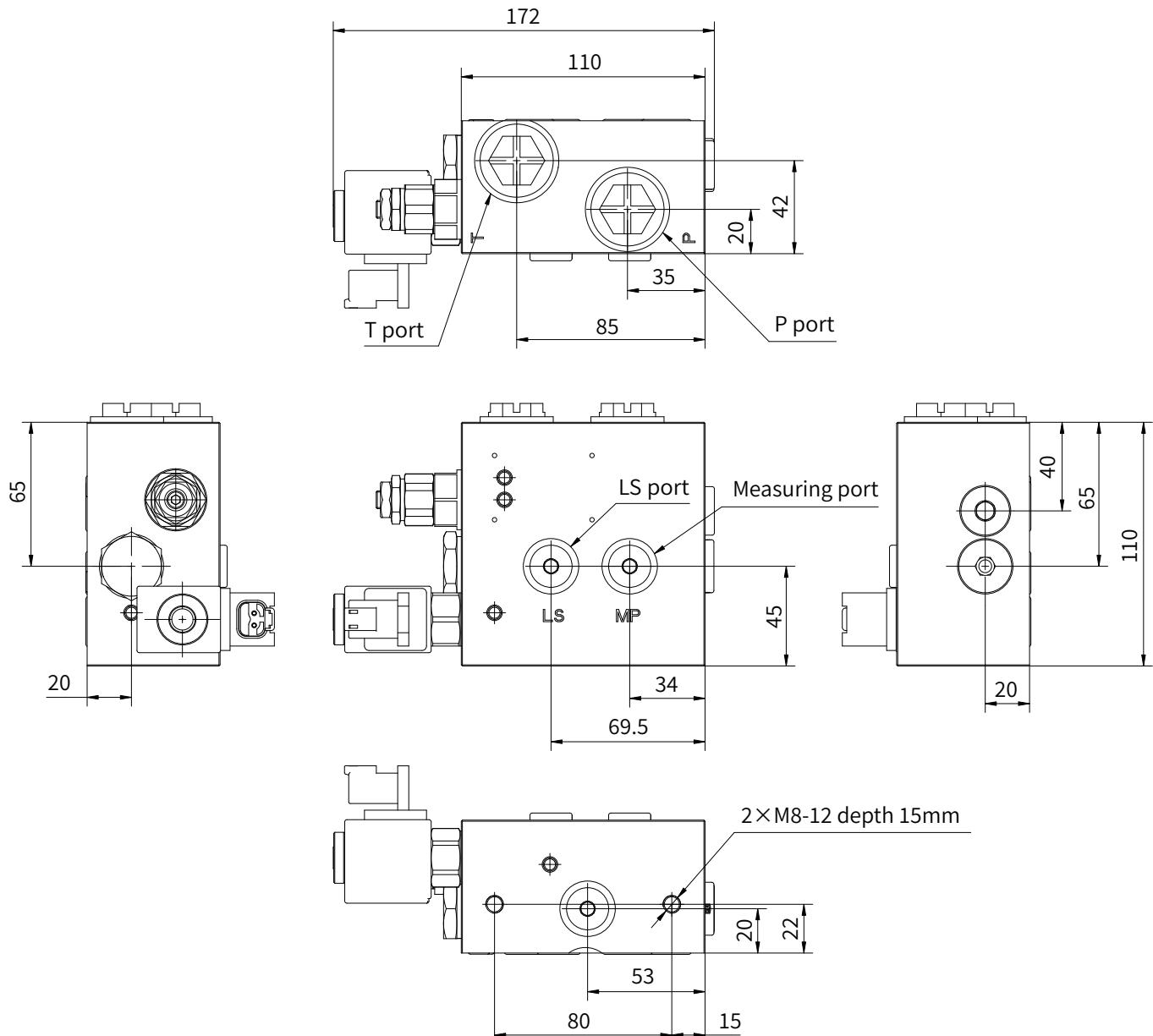
Thread dimensions

G1/2:	ΦD 30	L 15
G1/4:	ΦD 24	



Inlet section — open center (With LS solenoid unloading valve)

LSPV12



Port dimension

P port:	G3/4
T port:	G3/4
LS port:	G1/4
Measuring port:	G1/4

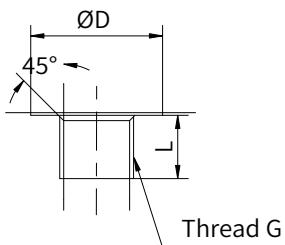
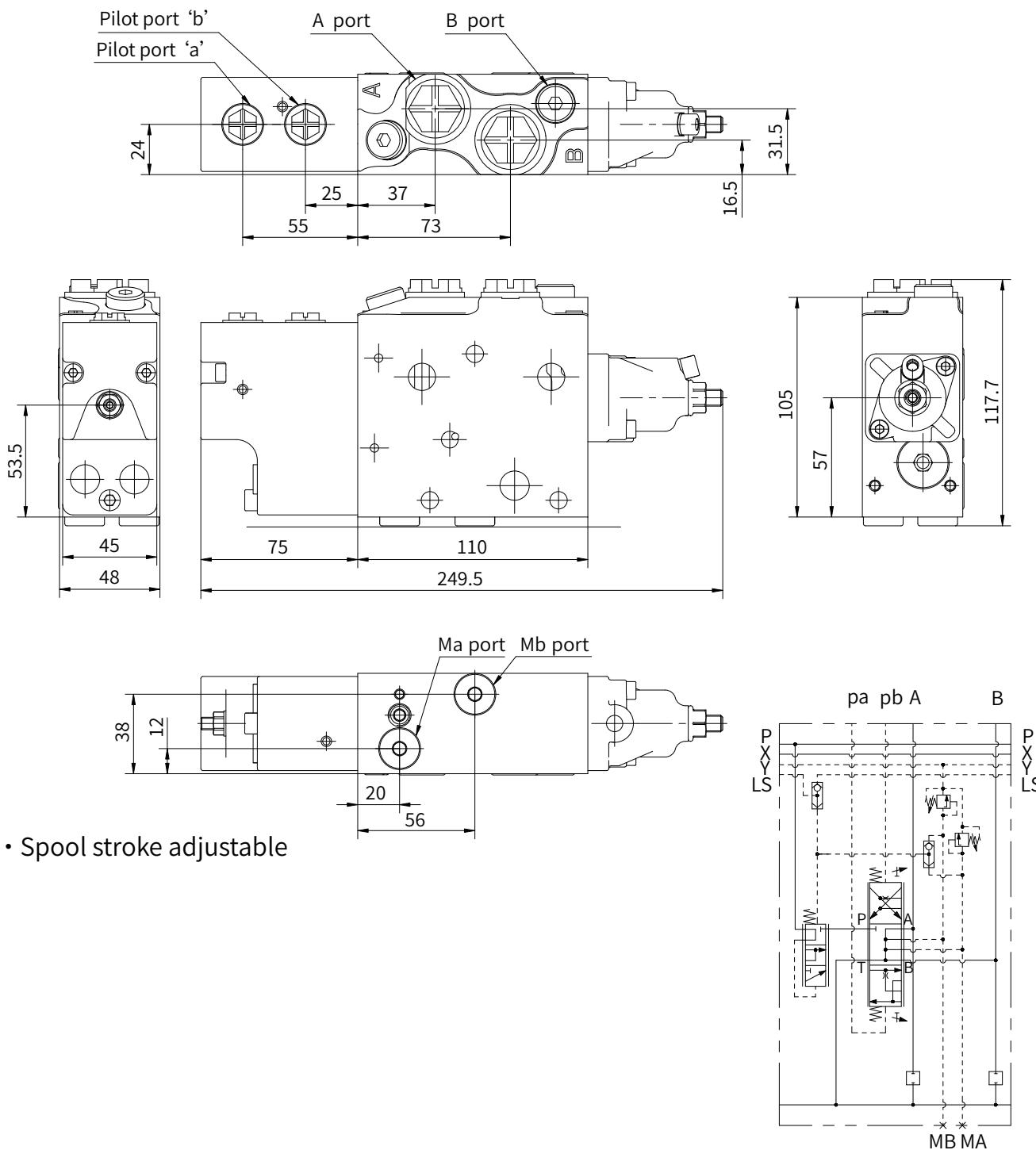
Thread dimensions

G3/4:	ΦD 38	L 16
G1/4:	ΦD 24	L 12



Middle section—hydraulic

LSPV12



Port dimension

A/B port:	G1/2 or G3/8
MA/MB/ Pilot port:	G1/4

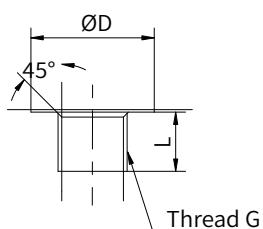
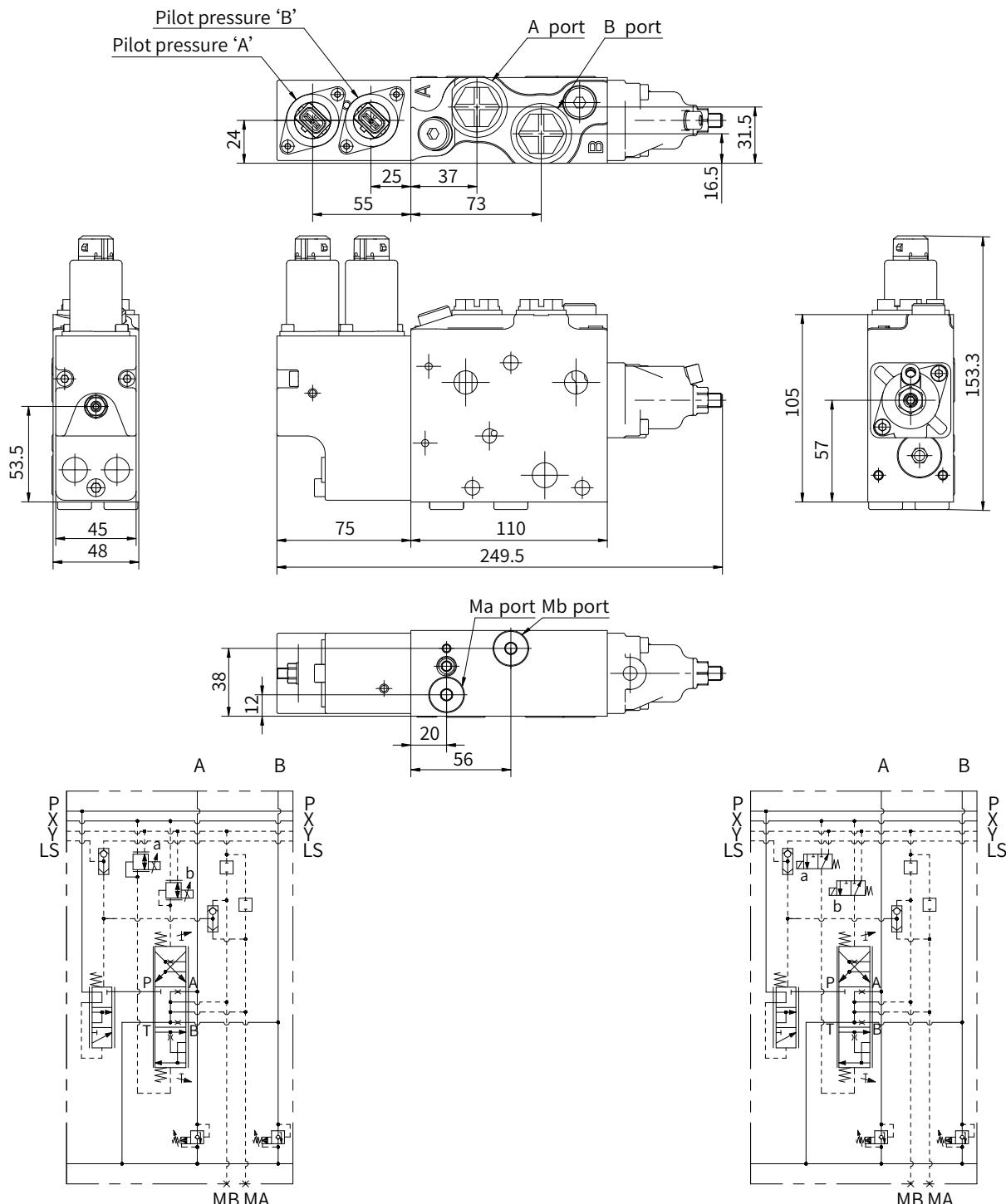
Thread dimensions

G1/4:	ØD 24	L 12
G3/8:	ØD 28	L 12.5
G1/2:	ØD 30	L 15



Middle section—electro-hydraulic

LSPV12



Port dimension

A/B port: G1/2 or G3/8
MA/MB port: G1/4

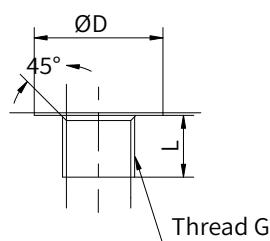
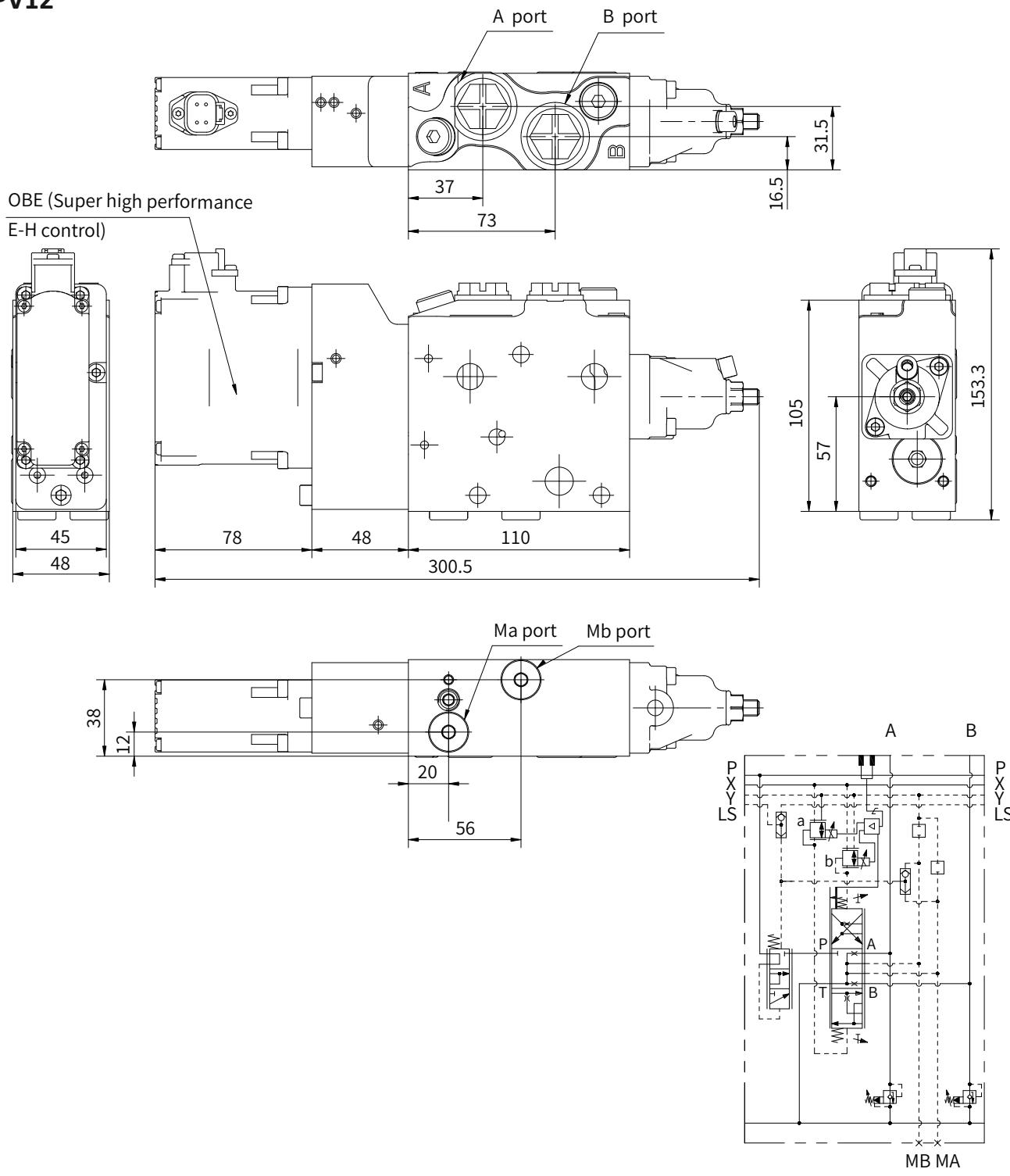
Thread dimensions

G1/4 :	ΦD 24	L 12
G3/8:	ΦD 28	L 12.5
G1/2:	ΦD 30	



Middle section—OBE (Super high performance E-H control)

LSPV12



Port dimension

A/B port: G1/2 or G3/8
MA/MB port: G1/4

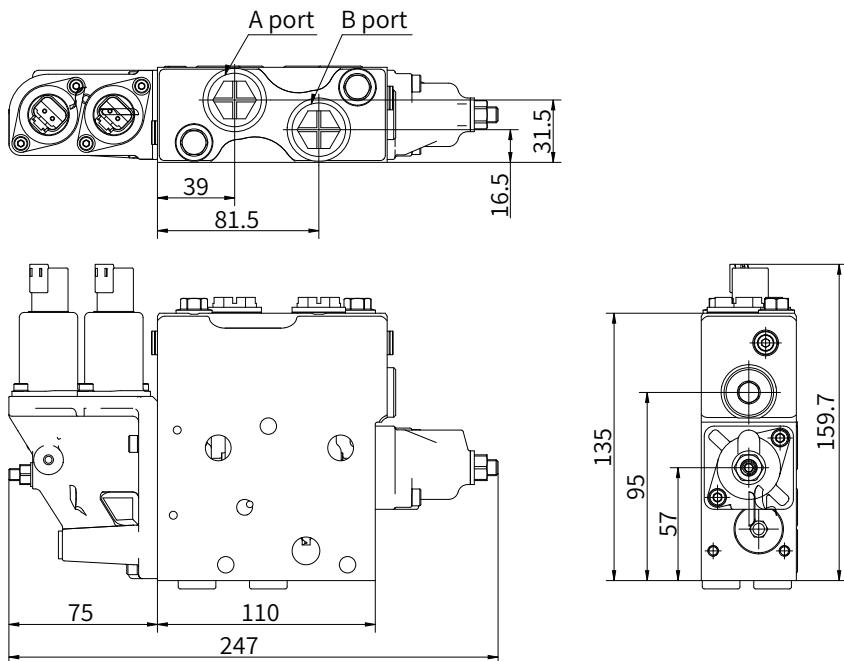
Thread dimensions

G1/4 :	ΦD 24	L 12
G3/8 :	ΦD 28	L 12.5
G1/2 :	ΦD 30	L 15

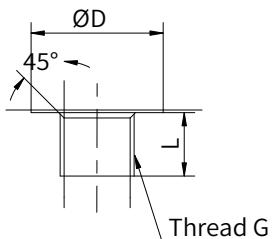
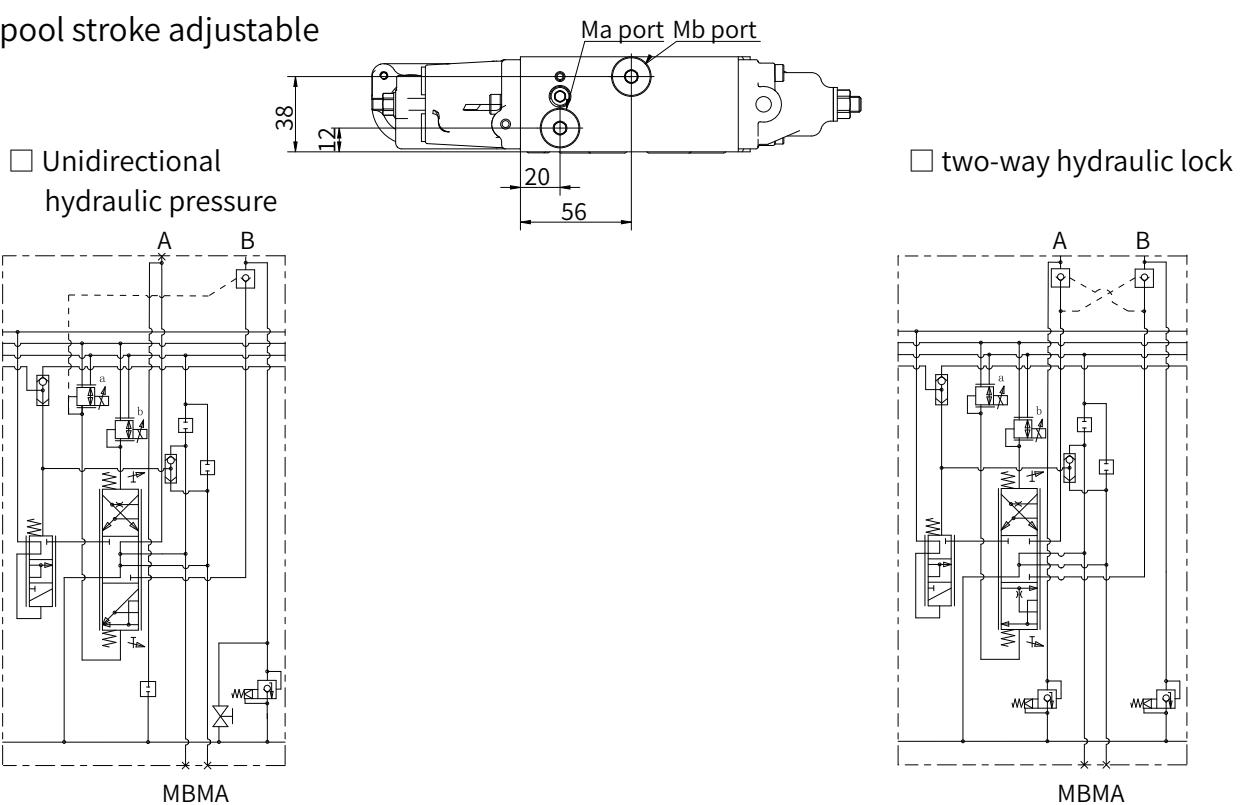


Middle section—Integrated with hydraulic lock

LSPV12



- Spool stroke adjustable



Port dimension
A/B port: G1/2 或 G3/8
MA/MB port: G1/4

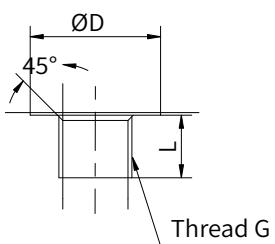
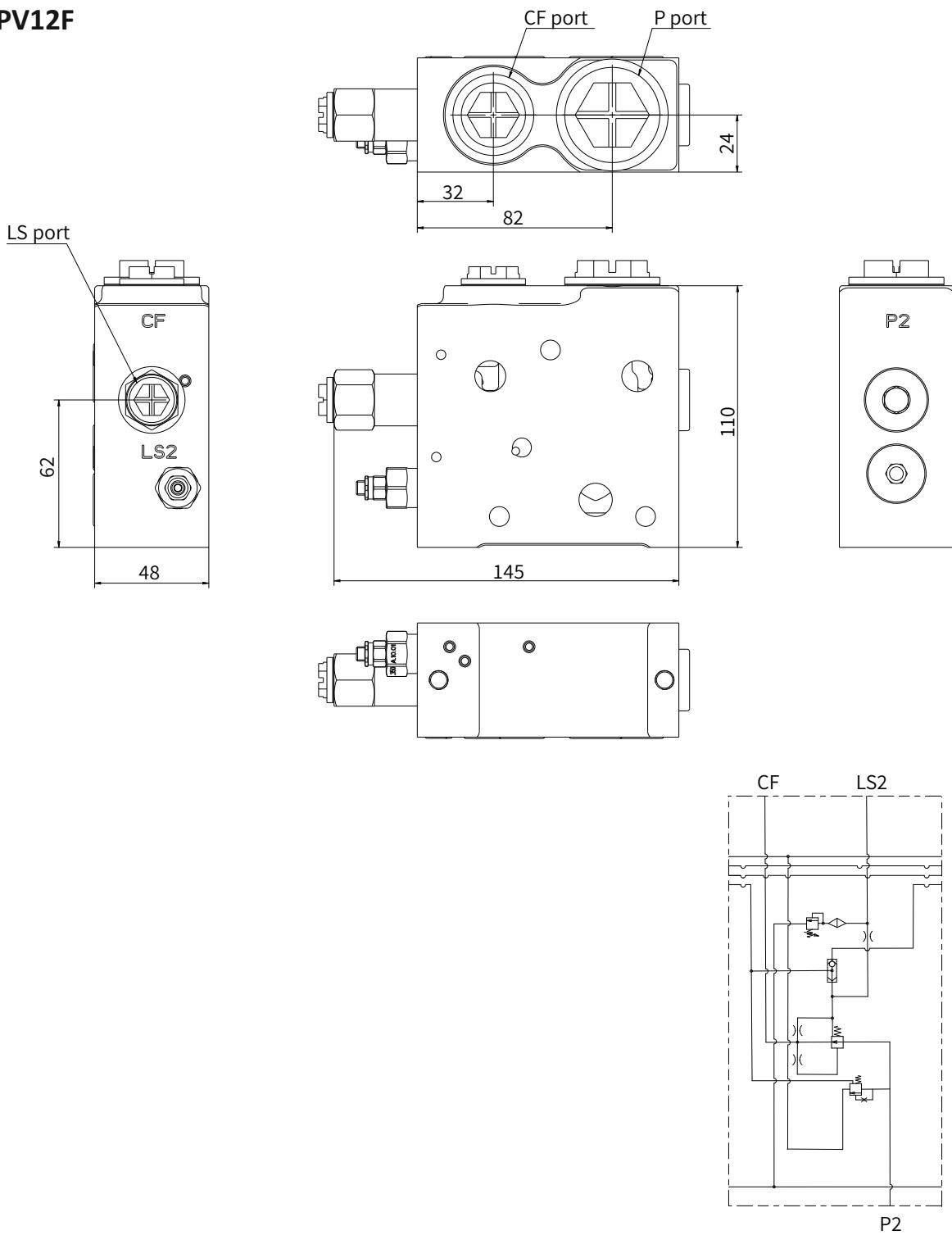
Thread dimensions

G1/4 :	ΦD 24	L 12
G3/8:	ΦD 28	L 12.5
G1/2:	ΦD 30	L 15



Middle section—Integrated with steering priority

LSPV12F



Port dimension

CFport: G1/2

P port: G1

LS port: G1/4

Thread dimensions

G1/4 : ØD 24 L 12

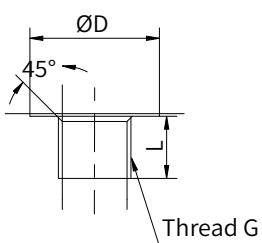
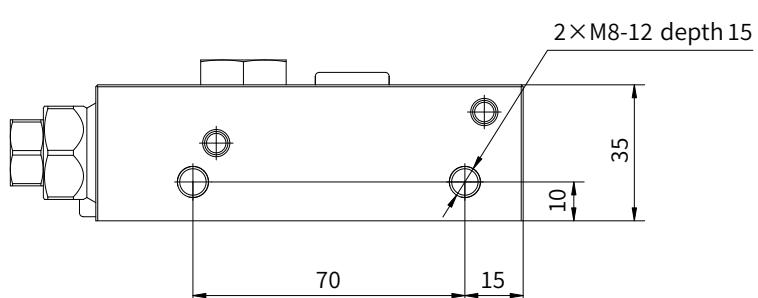
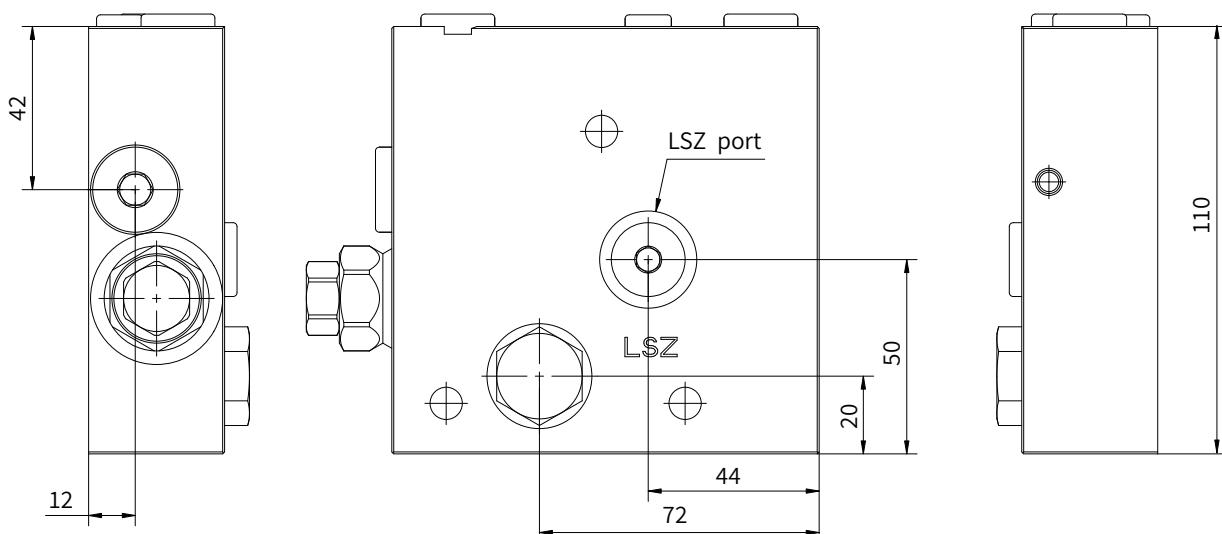
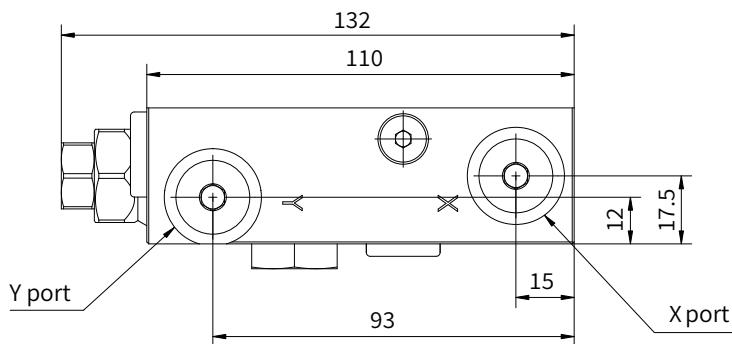
G1/2: ØD 30 L 15

G1: ØD 47 L 19



Endlet section assembly (without additional P port)

LSPV12



Port dimension

Y port: G1/4

X port: G1/4

LSZ port: G1/4

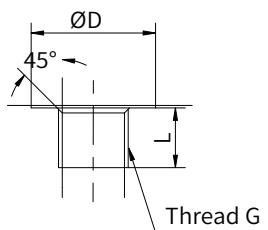
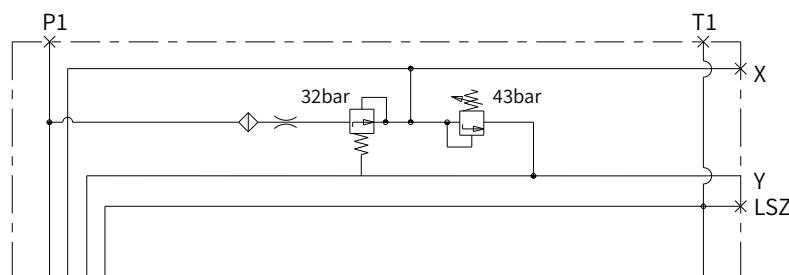
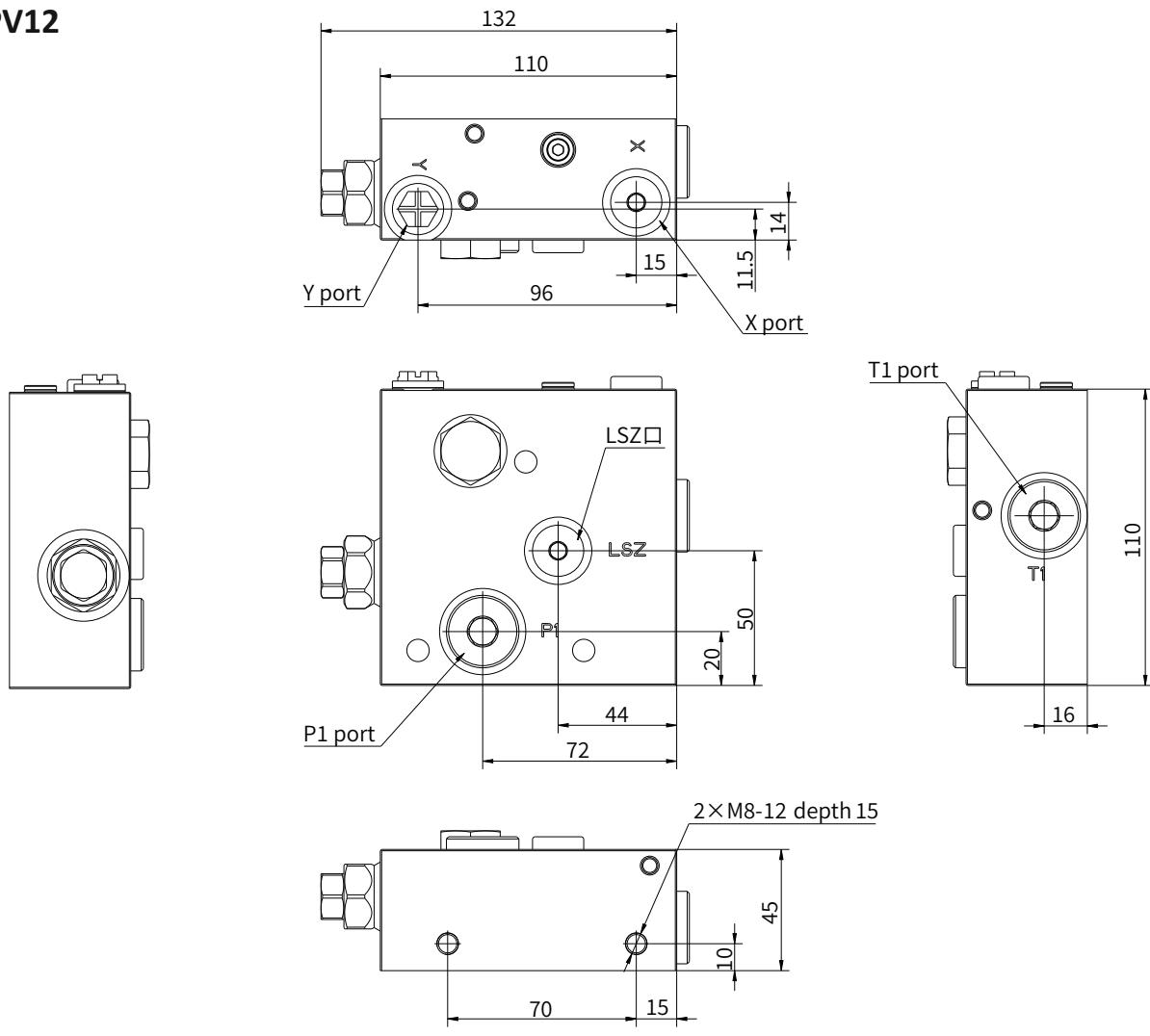
Thread dimensions

G1/4: ØD 24



Endlet section assembly (with additional P port)

LSPV12



Port dimension

Y port: G1/4

X port: G1/4

LSZ port: G1/4

P1 port: G1/2

T1 □: G1/2

Thread dimensions

G1/4: ØD 24 L 12

G1/2: ØD 30



Preferred spool flow

LSPV12

- Symmetry spool

compensator	Flow(L/min)							
S	100-100	76-76	54-54	33-33	22-22	14-14	07-07	
	90-90	68-68	47-47	29-29	19-19	12-12	06-06	
	80-80	60-60	40-40	25-25	15-15	10-10	05-05	
C	120-120	90-90	60-60	40-40	25-25	15-15	10-10	
T	100-100	76-76	54-54	33-33	22-22	14-14	07-07	

- Asymmetry spool

Please consult the company's technology sales.

Example:

* Pressure compensator: S

* Command flow value: $Q_{ac} = 72 \text{ L/min}$

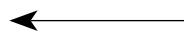
Solution:

$\rightarrow 60 \text{ L/min spool} + 2 \text{ washers} = 76 \text{ L/min}$

\rightarrow Set 72 L/min via stroke limitation

Pressure compensator	Flow (L/min)
S	76-76
	68-68
	60-60

Flow without washer (pressure compensator = 5.5 to 7.5 bar)



Flow with 1 washer (pressure compensator = 7 to 9 bar)



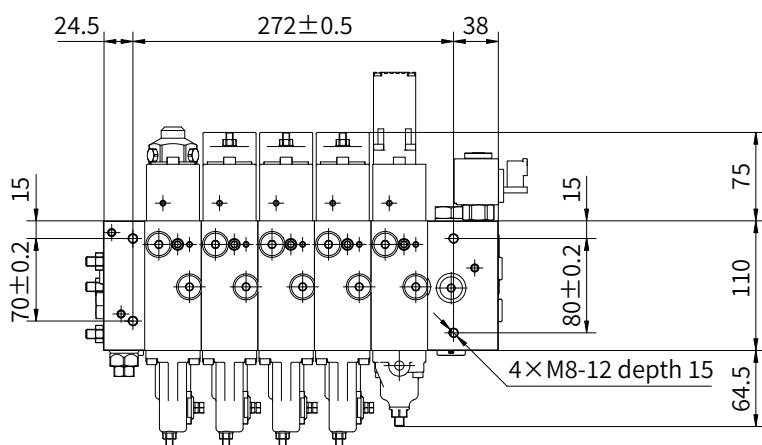
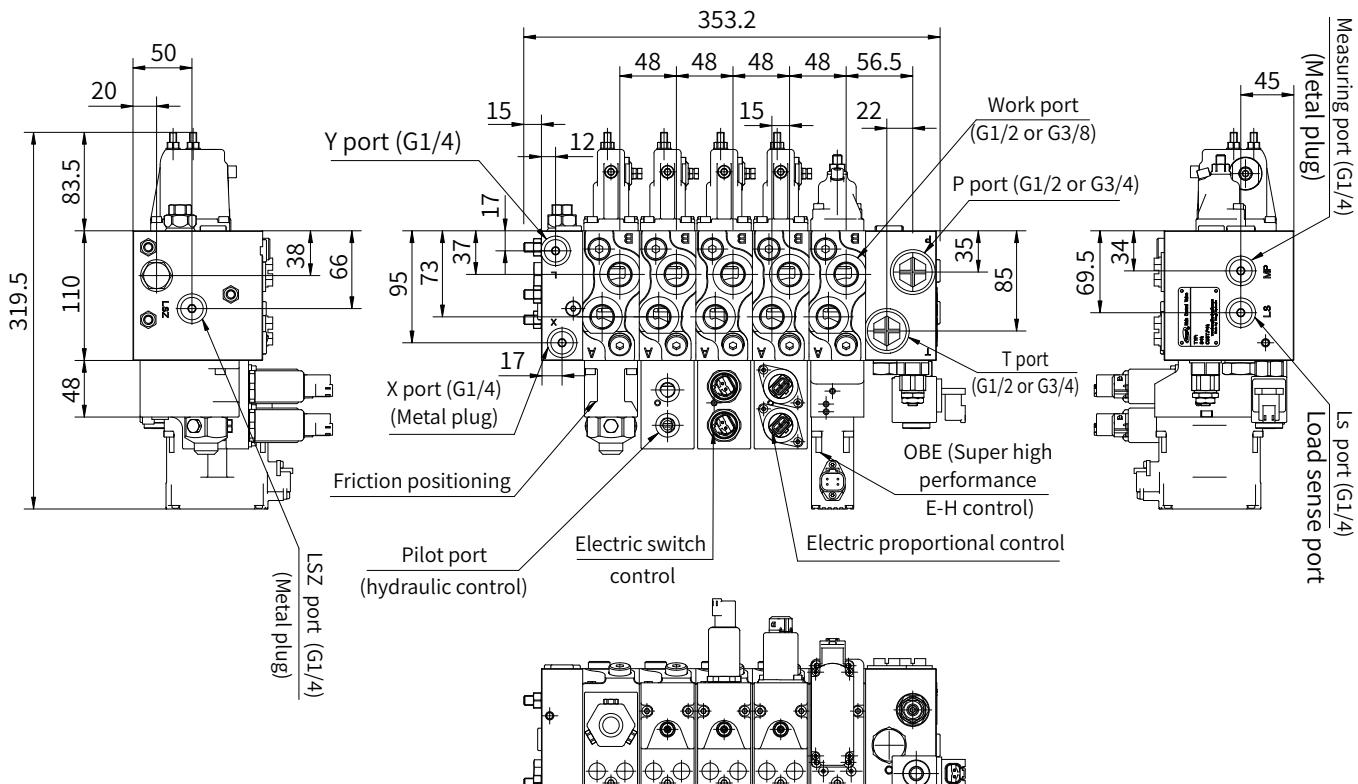
Flow with 2 washers (pressure compensator = 8.5 to 10.5 bar)





Unit dimensions

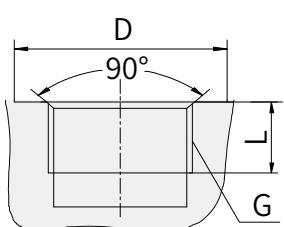
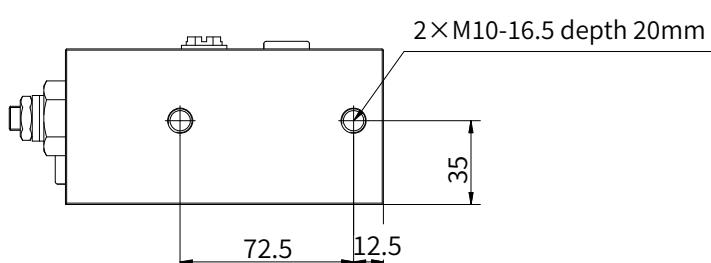
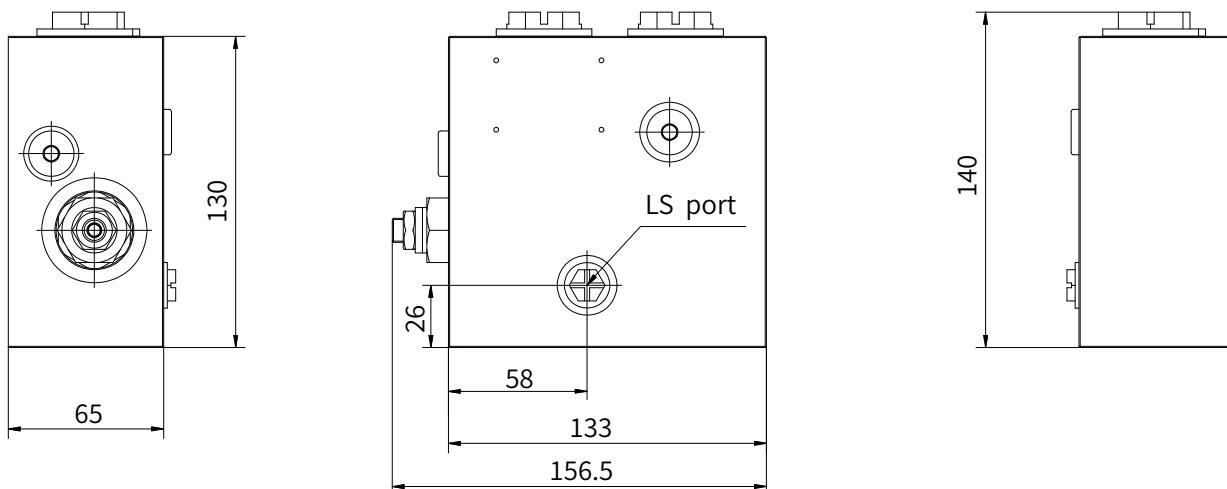
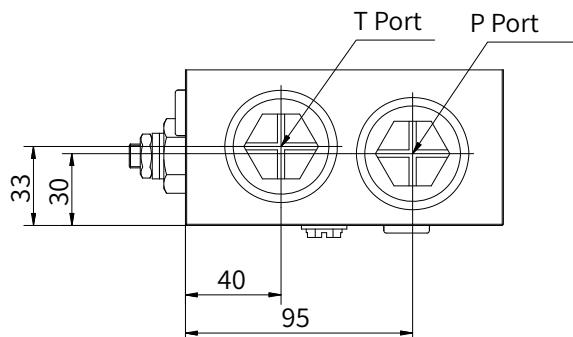
LSPV12





Inlet section — closed center

LSPV15



Port dimension

P port: G1

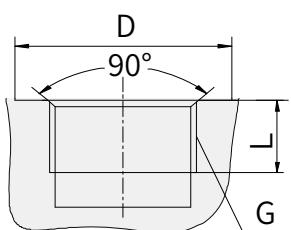
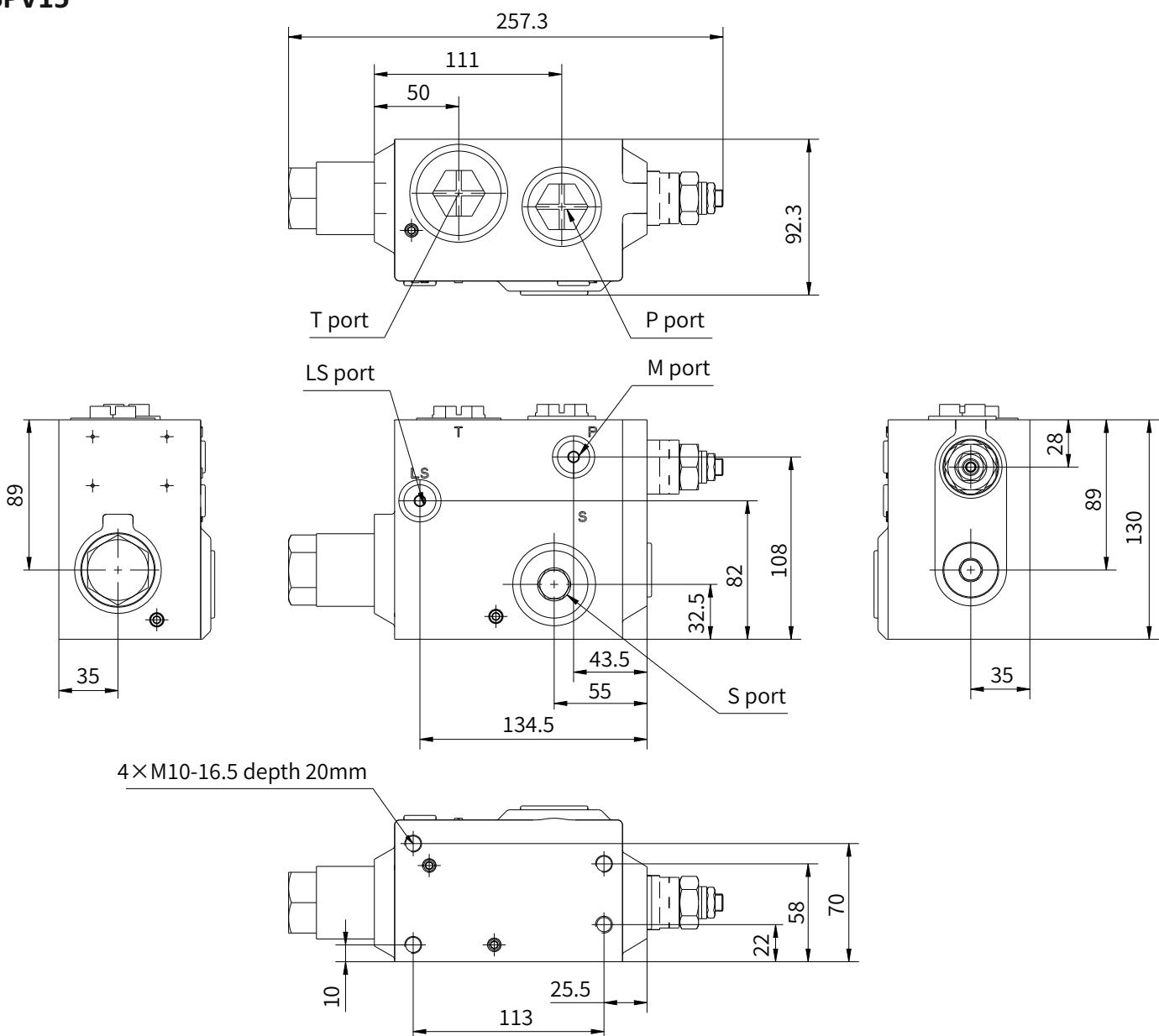
T port: G1

LS port: G1/4

Thread dimensions

G1: $\Phi D\ 47\ L\ 19$

G1/4: $\Phi D\ 24\ L\ 12$

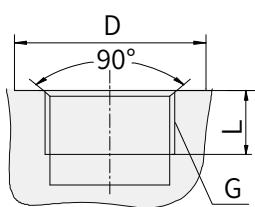
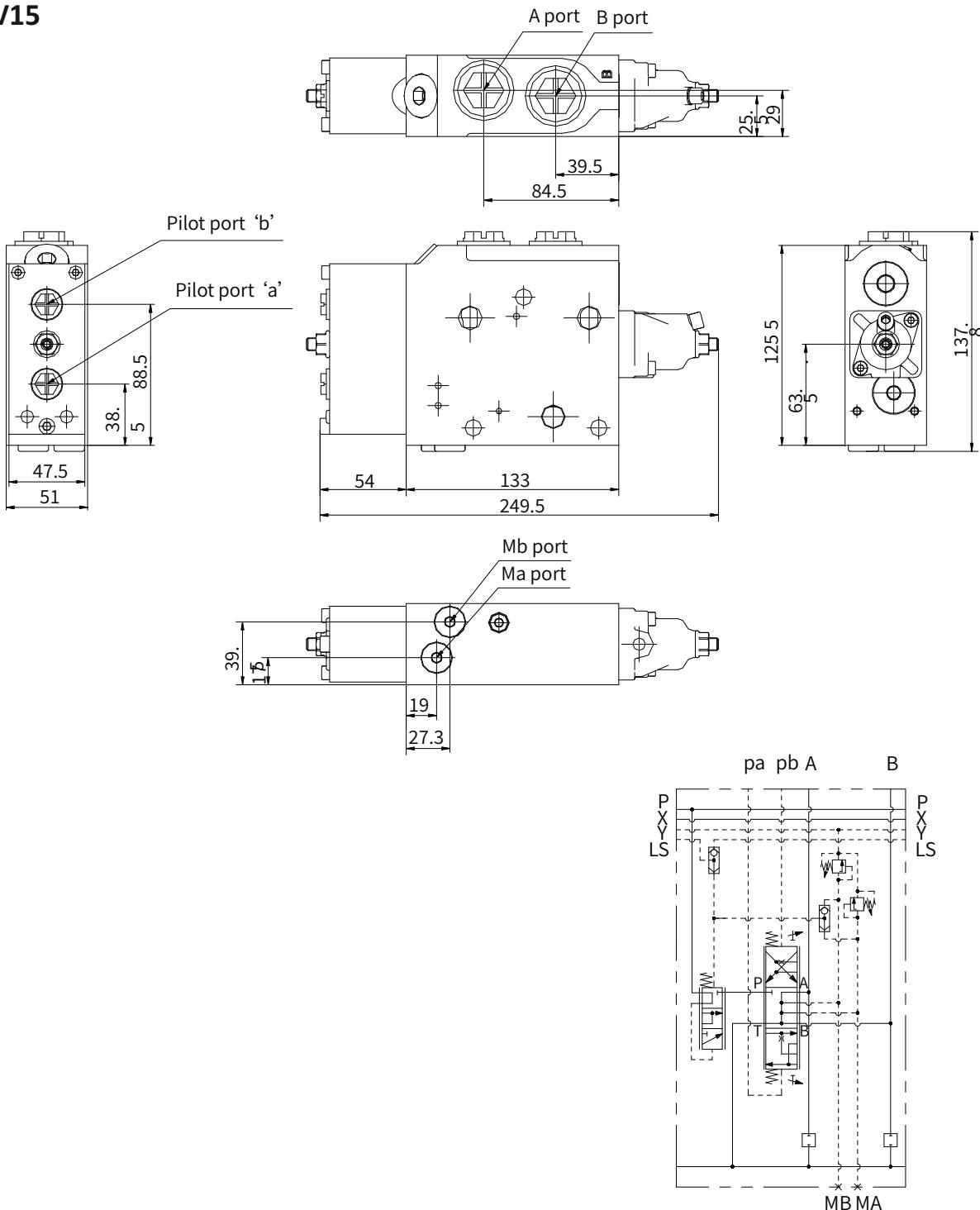
**Inlet section — open center****LSPV15****Thread dimensions**

T port:	G1 1/4	G1 1/4:	ΦD 58	L 21.5
LS port:	G1/4	G1:	ΦD 47	L 19
S port:	G1	G1/4:	ΦD 24	L 12



Middle section - hydraulic

LSPV15



Port dimension

A/B port: G3/4

Pilot port/Ma/Mb port: G1/4

Thread dimensions

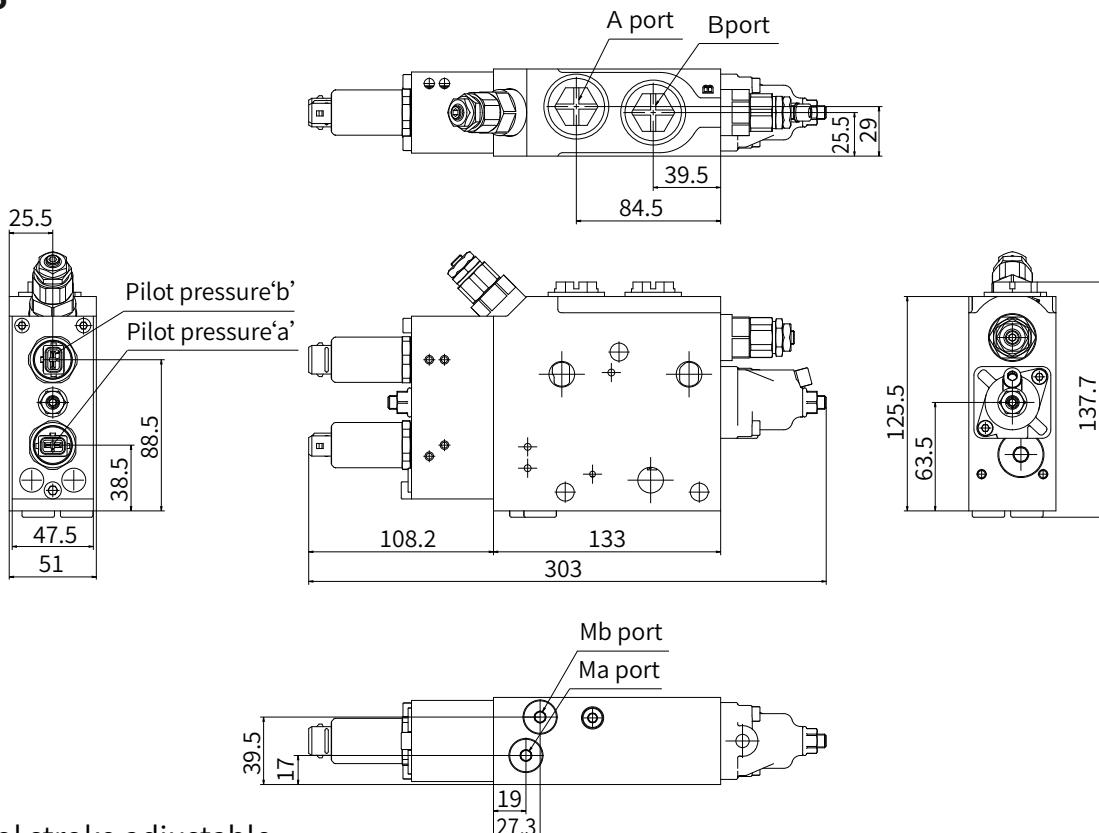
G3/4: ΦD 38 L 16

G1/4: ϕ D 24 L 12



Middle section - electro-hydraulic

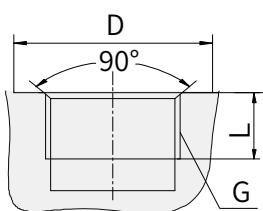
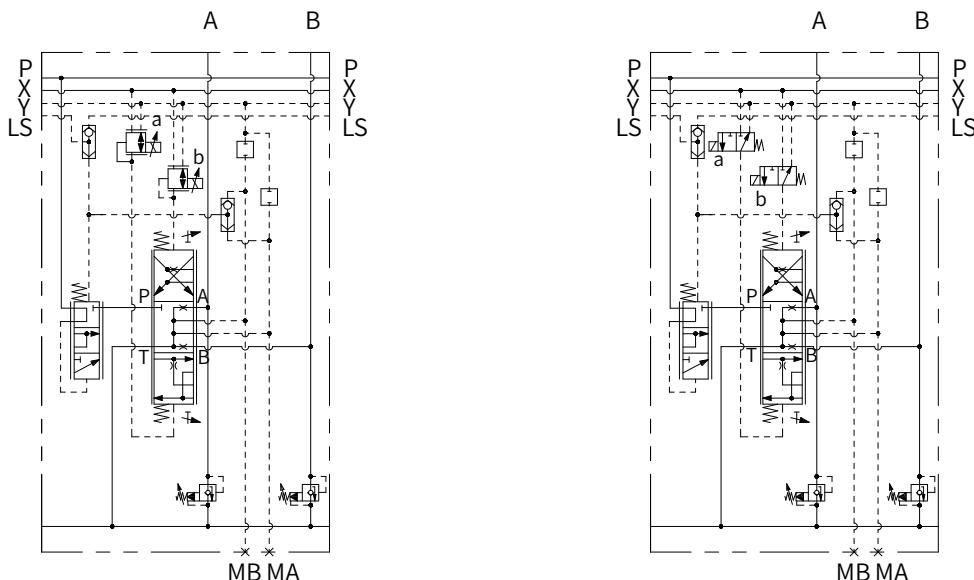
LSPV15



• Spool stroke adjustable

E-H proportional control
W21 24V; W23 12V

E-H on/off control
W41 24V; W43 12V



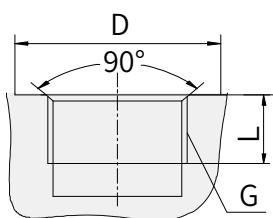
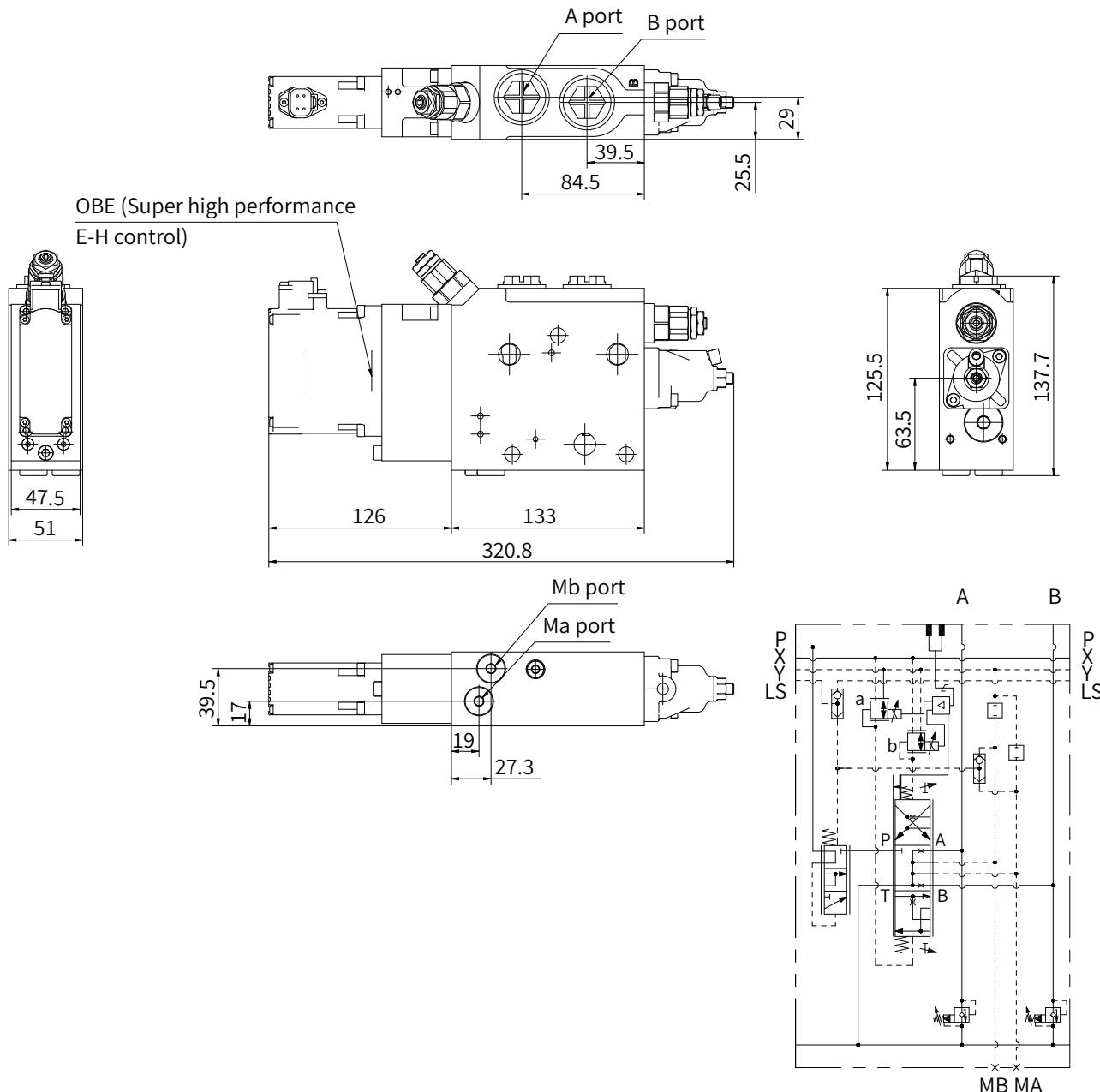
Port dimension
A/B port: G3/4
Ma/Mb port: G1/4

Thread dimensions
G3/4: $\Phi D\ 38\ L\ 16$
G1/4: $\Phi D\ 24\ L\ 12$



Middle section—OBE (Super high performance E-H control)

LSPV15



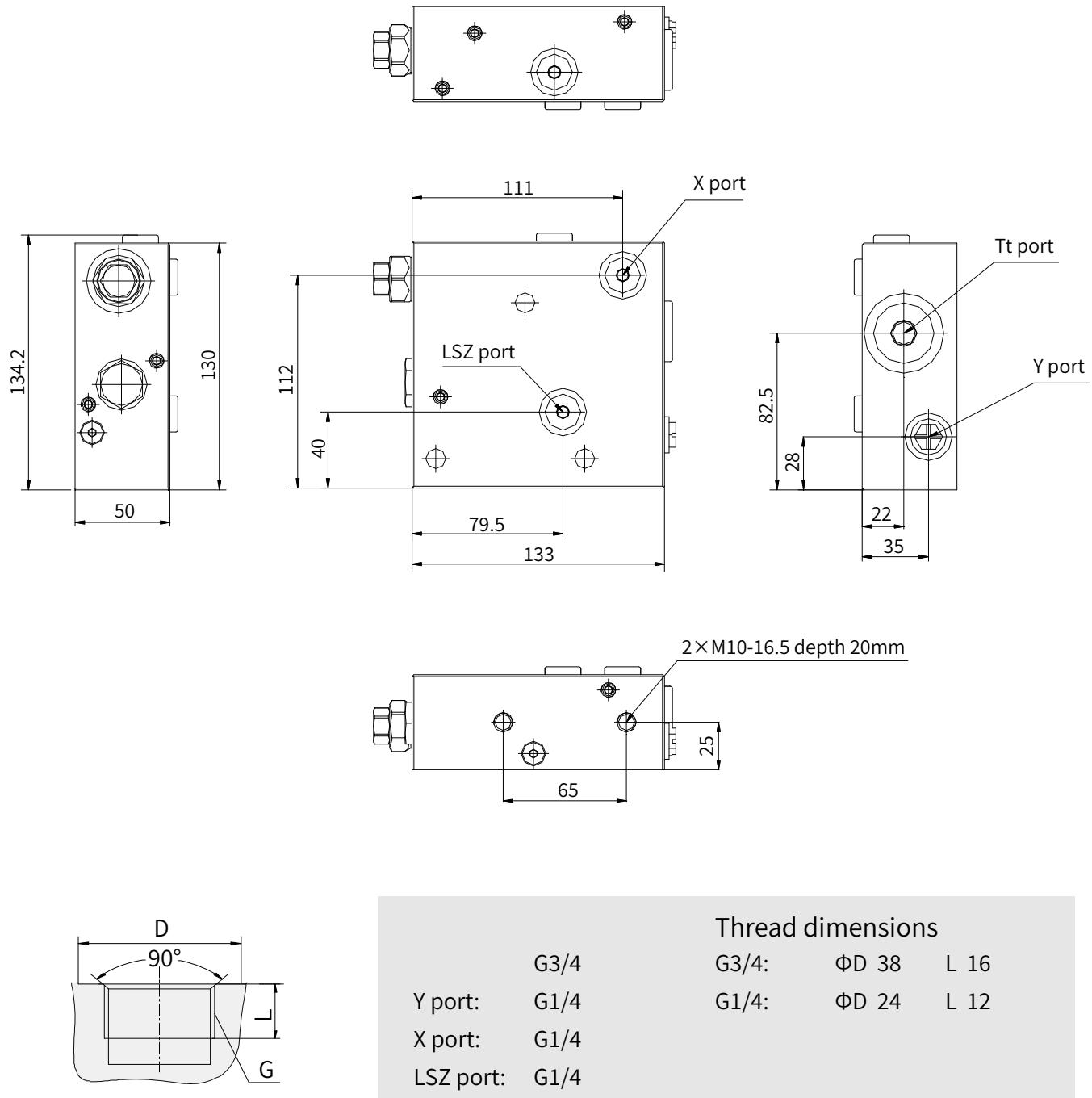
Port dimension
A/B port: G3/4
Ma/Mb port: G1/4

Thread dimensions
G3/4: $\Phi D\ 38\ L\ 16$
G1/4: $\Phi D\ 24\ L\ 12$



Endlet section assembly (without additional P port)

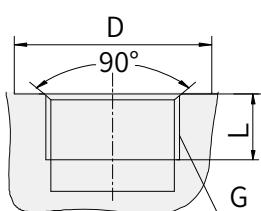
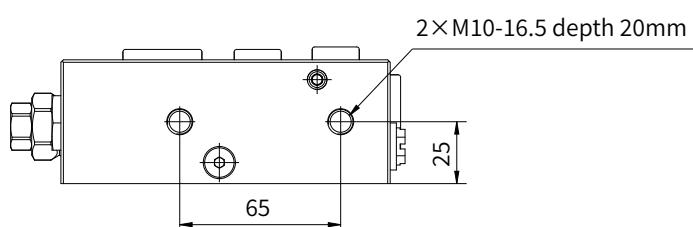
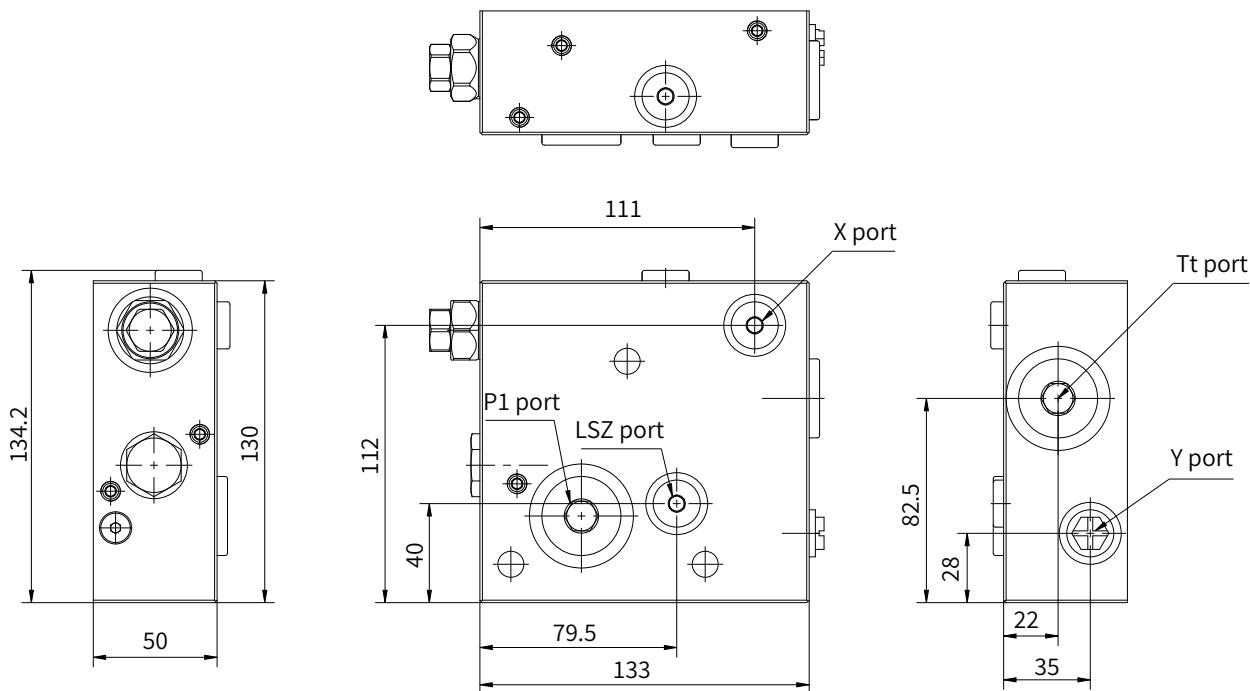
LSPV15





Endlet section assembly (with additional P port)

LSPV15



Thread dimensions

G3/4	G3/4:	ΦD 38	L 16
Tt Port: G3/4	G1/4:	ΦD 24	L 12
Y Port: G1/4			
X Port: G1/4			
LSZ Port: G1/4			



Preferred spool flow

LSPV15

• Symmetry spool

Pressure compensator	Flow(L/min)					
S	150-150	120-120	080-080	050-050	032-032	023-023
	140-140	130-130	100-100	070-070	045-045	028-028
	120-120	110-110	085-085	060-060	040-040	025-025
C	200-200	175-175	145-145	110-110	080-080	045-045
T	190-190	160-160	100-100	065-065	040-040	028-028

• Asymmetry spool

Pressure compensator	Flow(L/min)				
S	150-120	120-180	080-050	050-032	023-014
	130-110	100-070	070-045	045-028	020-012
	110-085	085-060	060-040	040-025	017-010
C	175-145	145-110	110-080	080-045	
T	190-160	160-100	100-065		

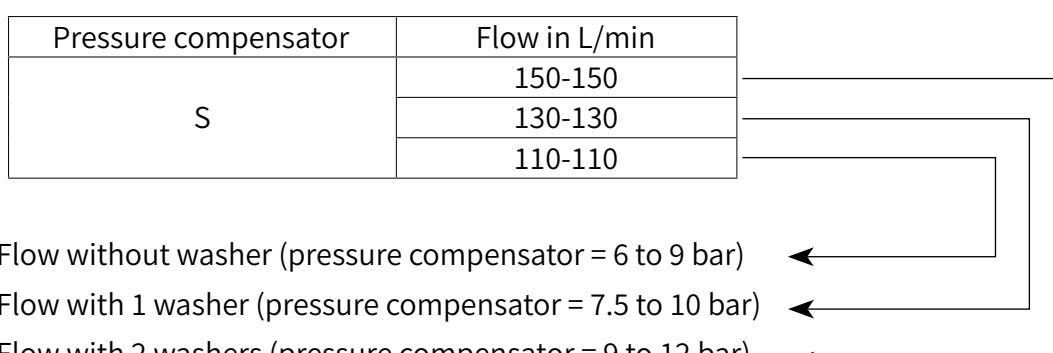
Solution:

* Pressure compensator: S

→ 110 L/min spool + 2 washers = 150 L/min

* Command flow value: $Q_{ac} = 145 \text{ L/min}$

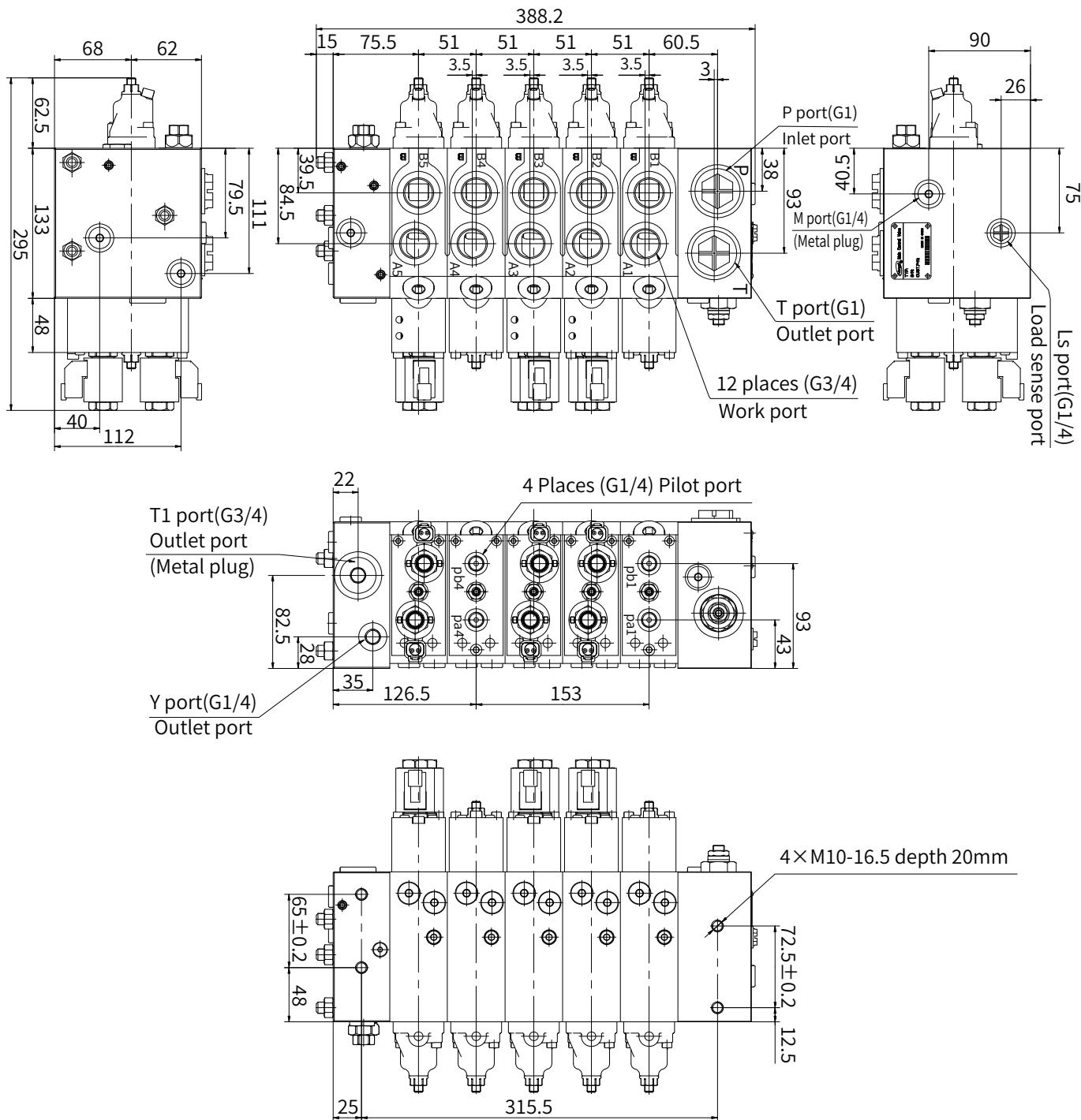
→ Set 145 L/min via stroke limitation





Unit Dimensions

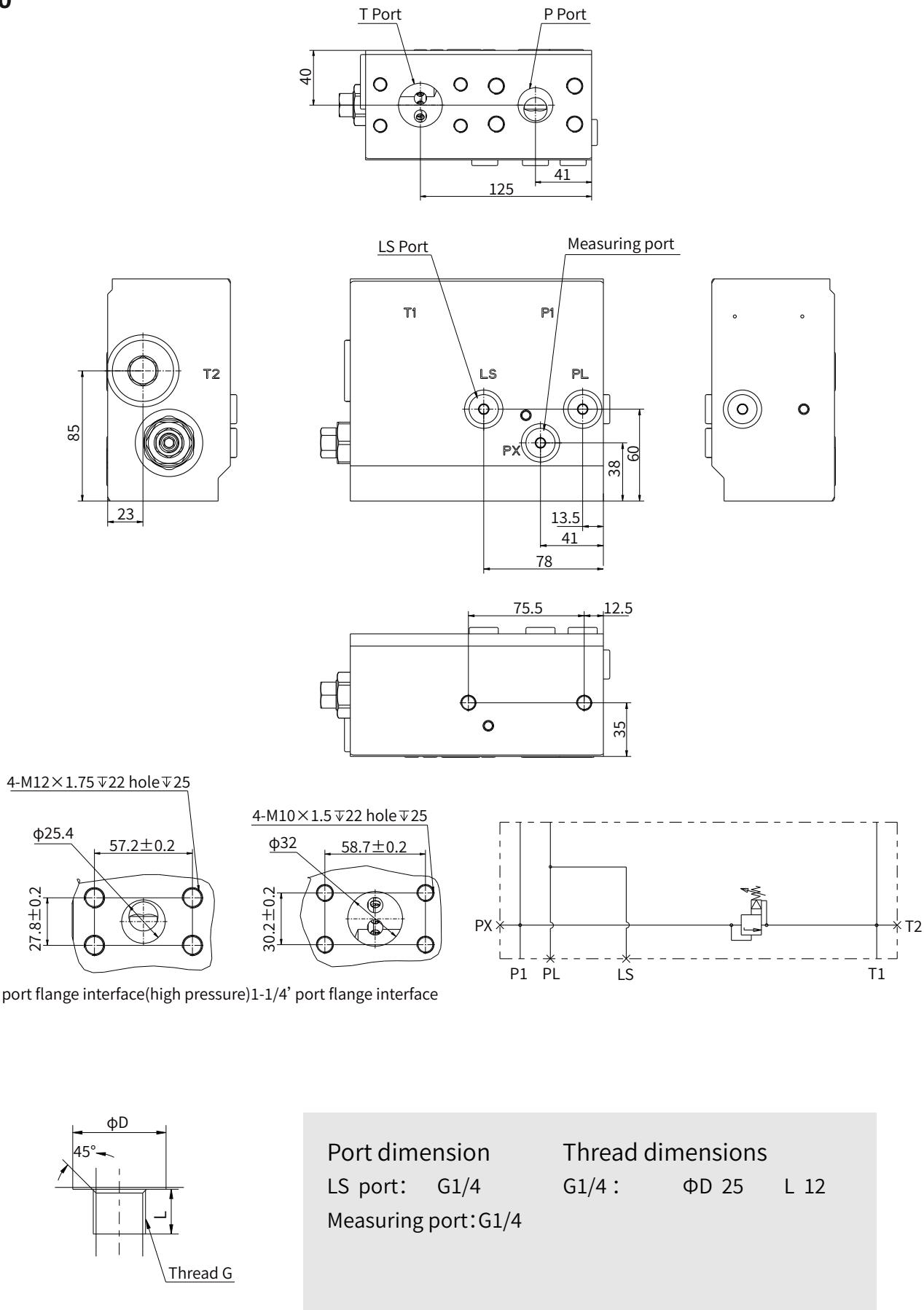
LSPV15





Inlet section — closed center

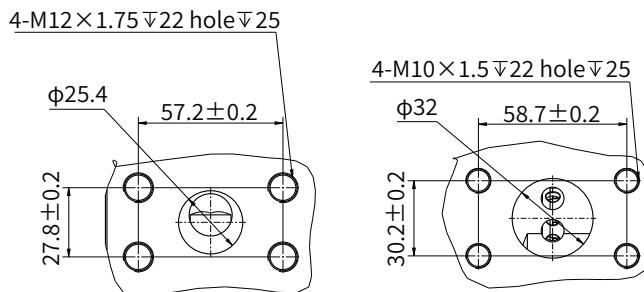
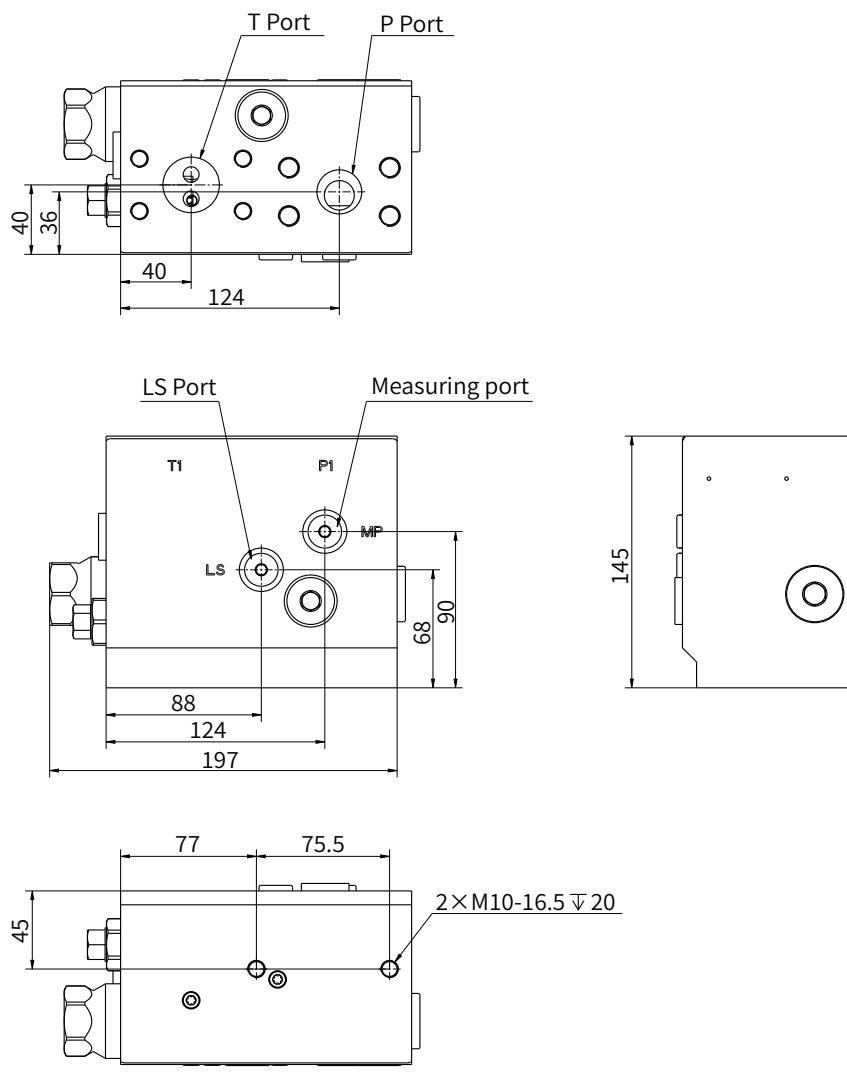
LSPV20



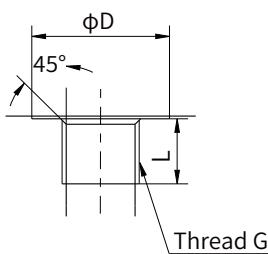


Inlet section — open center

LSPV20



1' port flange interface (high pressure) 1-1/4' port flange interface



Port dimension

LS port: G1/4

Measuring port: G1/4

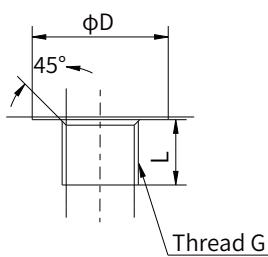
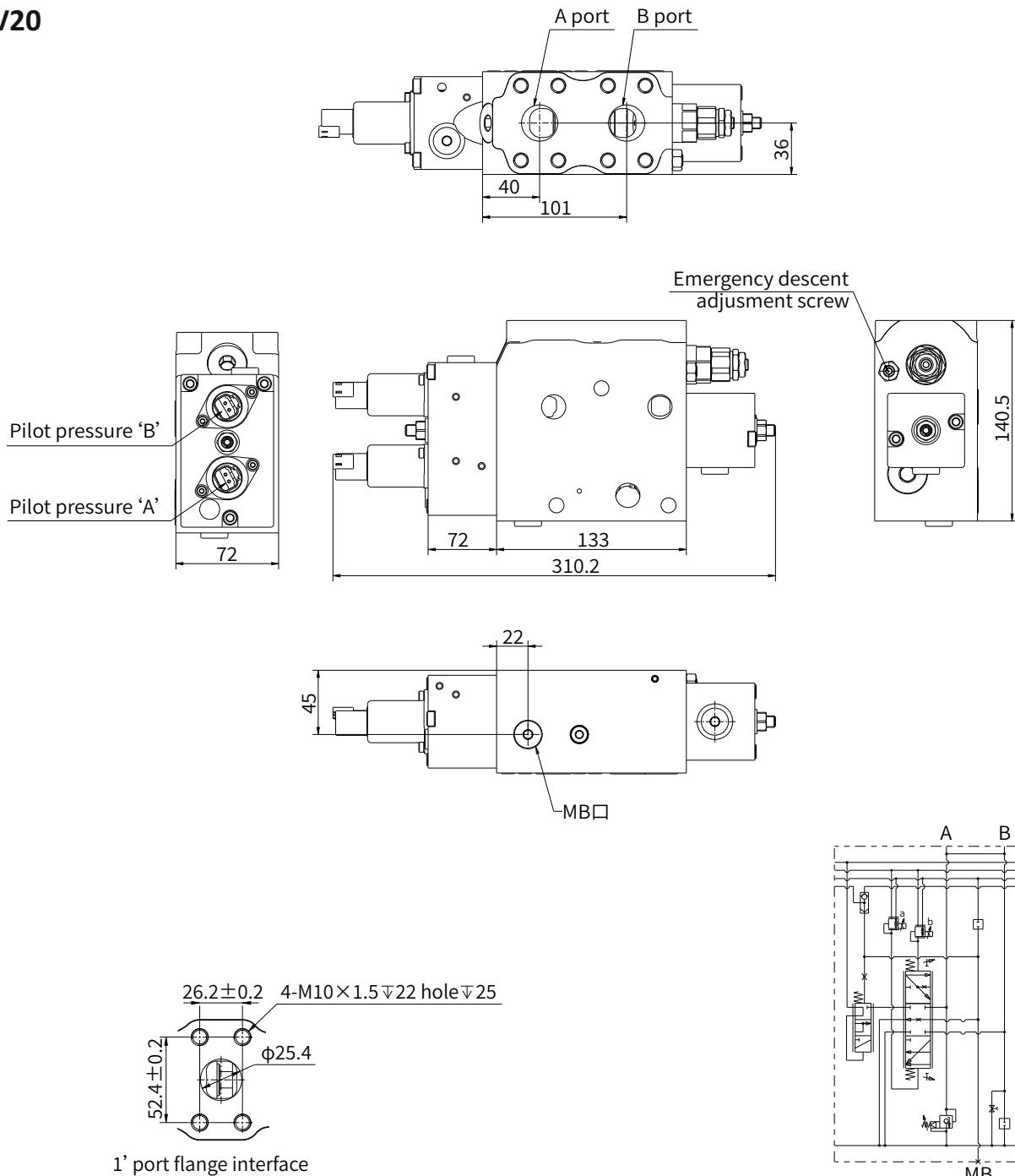
Thread dimensions

G1/4: ϕD 25 L 12



Middle section—electro-hydraulic

LSPV20



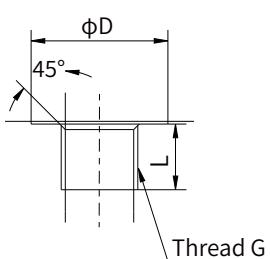
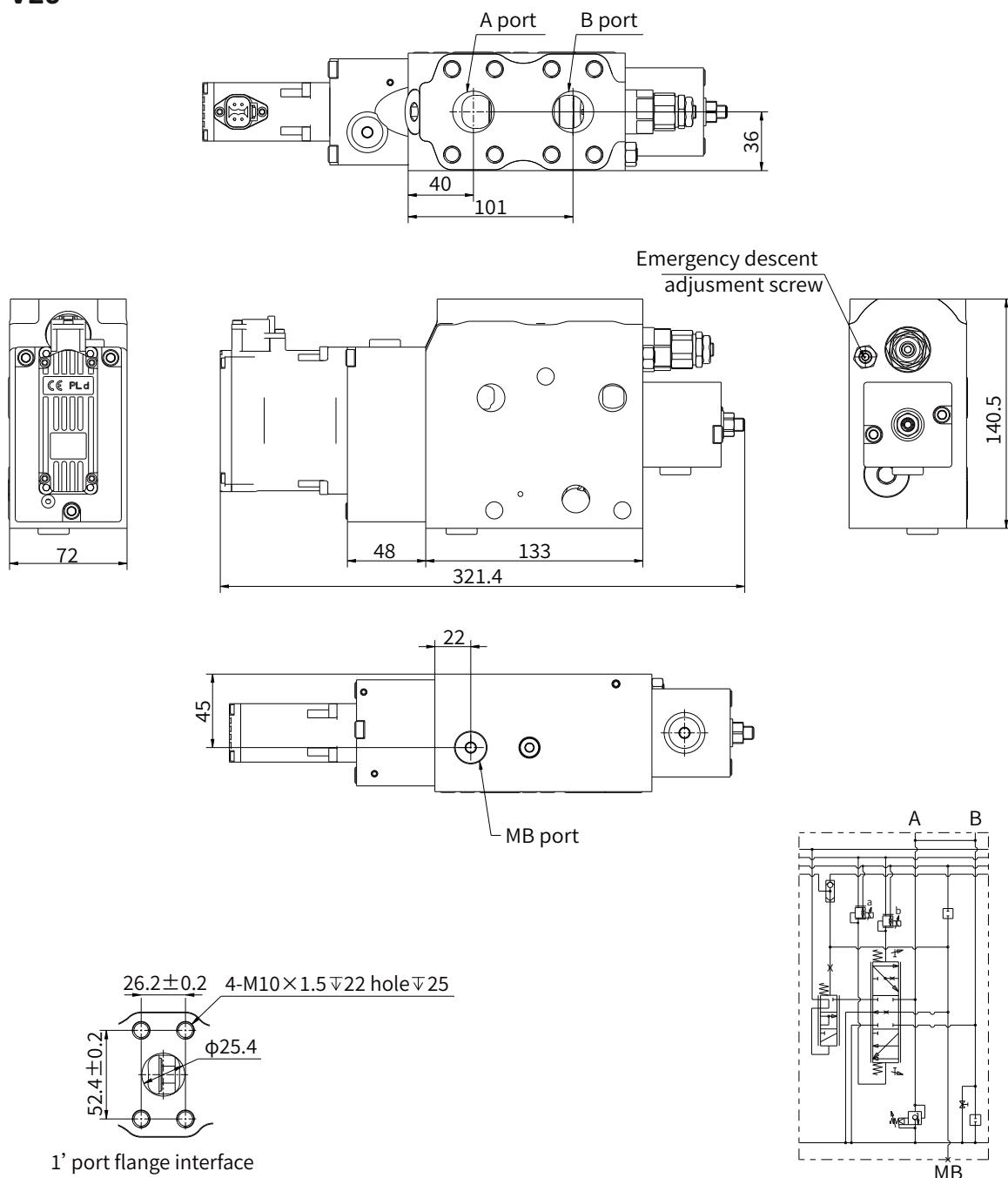
Port dimension
MB port: G1/4

Thread dimensions
G1/4 : ϕD 25 L 12



Middle section—OBE (Super high performance E-H control)

LSPV20



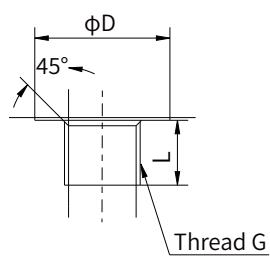
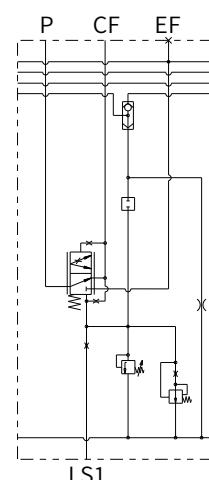
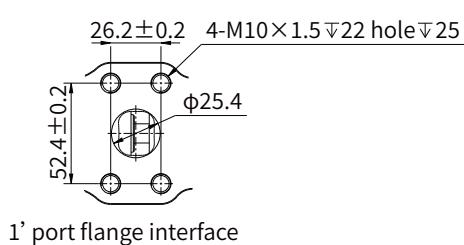
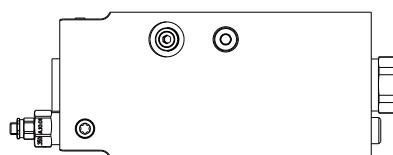
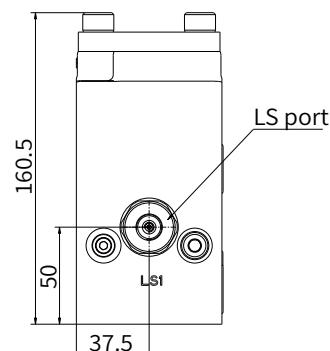
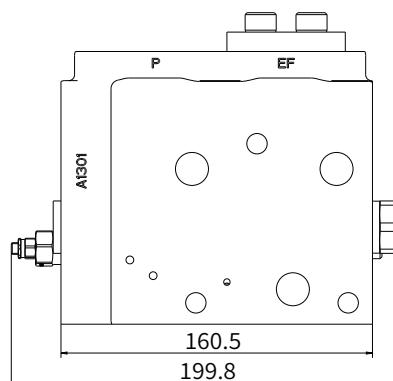
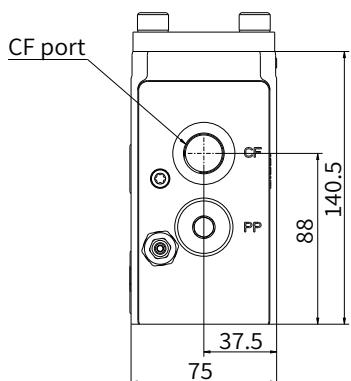
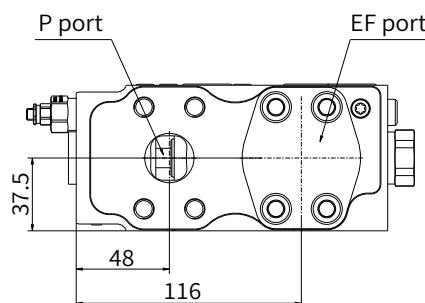
Port dimension
MB port: G1/4

Thread dimensions
G1/4 : ϕD 25 L 12



Middle section—Integrated with steering priority

LSPV20F



Port dimension

CF port: G1/2
P port: 1'
LS port: G1/4
EF port: 1'

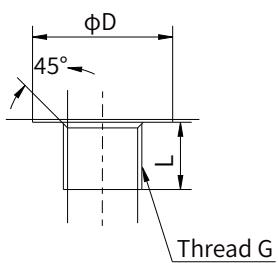
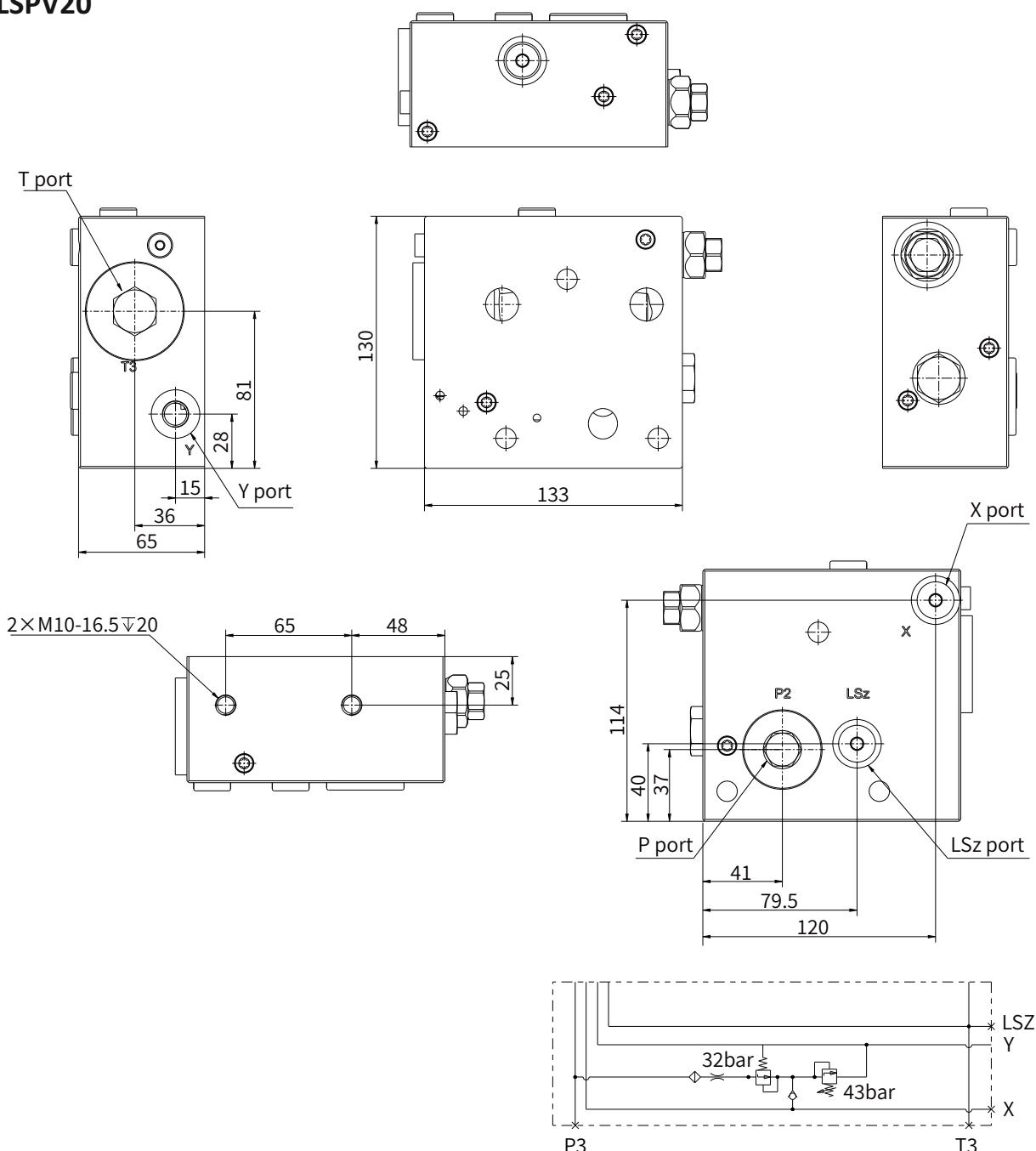
Thread dimensions

G1/4 :	φD 25	L 12
G1/2 :	φD 32	L 15



Endlet section assembly (with additional P port)

LSPV20



Port dimension	
Y port:	G1/4
X port:	G1/4
LSZ port:	G1/4
P port:	G1/2
T port:	G1/2

Thread dimensions	
G1/4 :	ΦD 25 L 12
P:G1	ΦD 41
T:G1	1/4 ΦD 41



Preferred spool flow

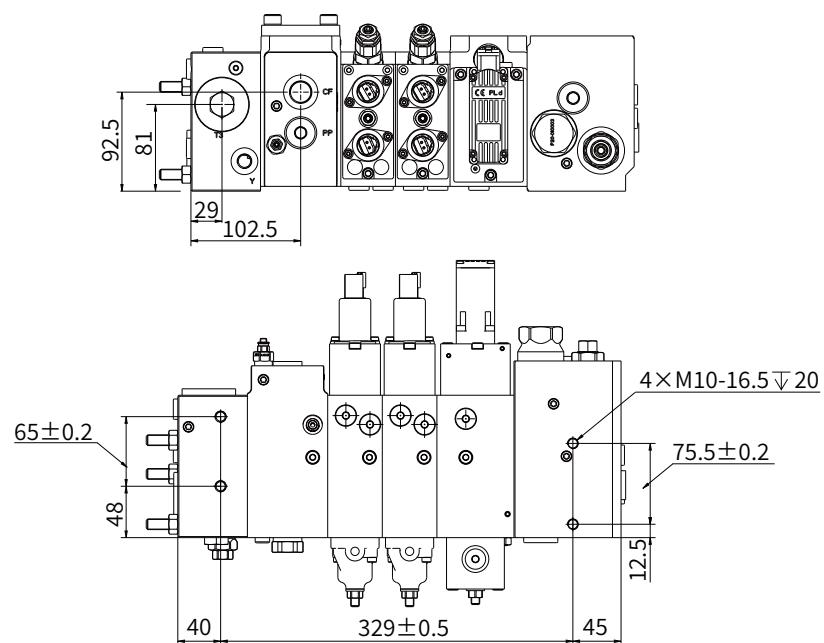
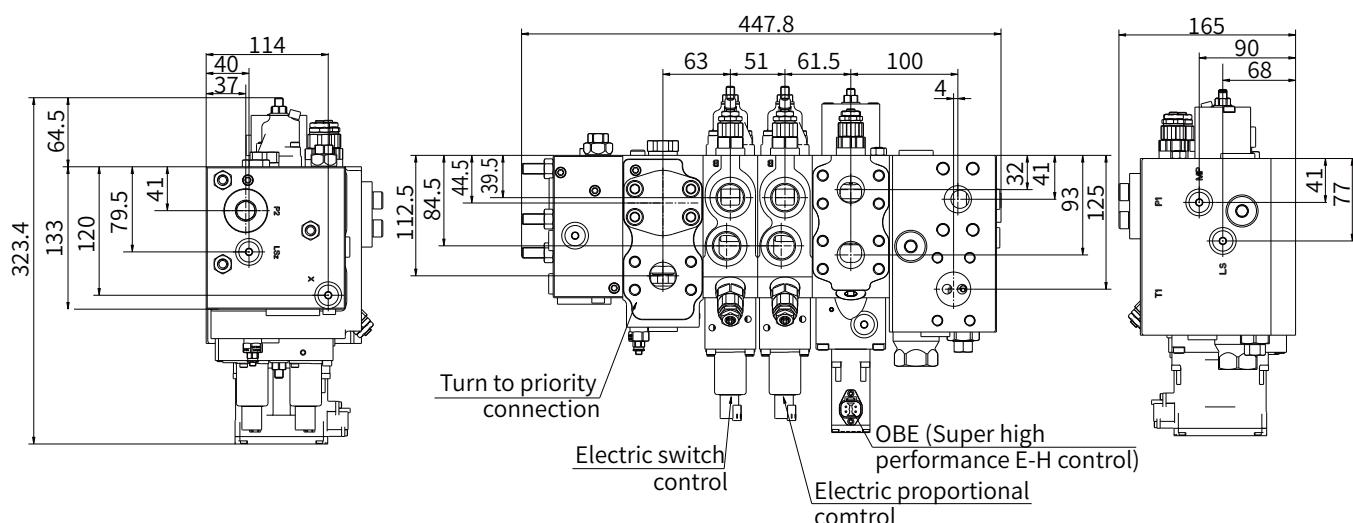
LSPV20

- Single acting valve core(L/min)

A port 0
B port 200-400

Unit Dimensions

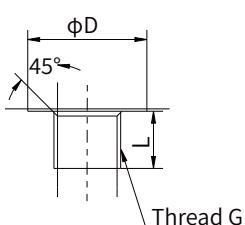
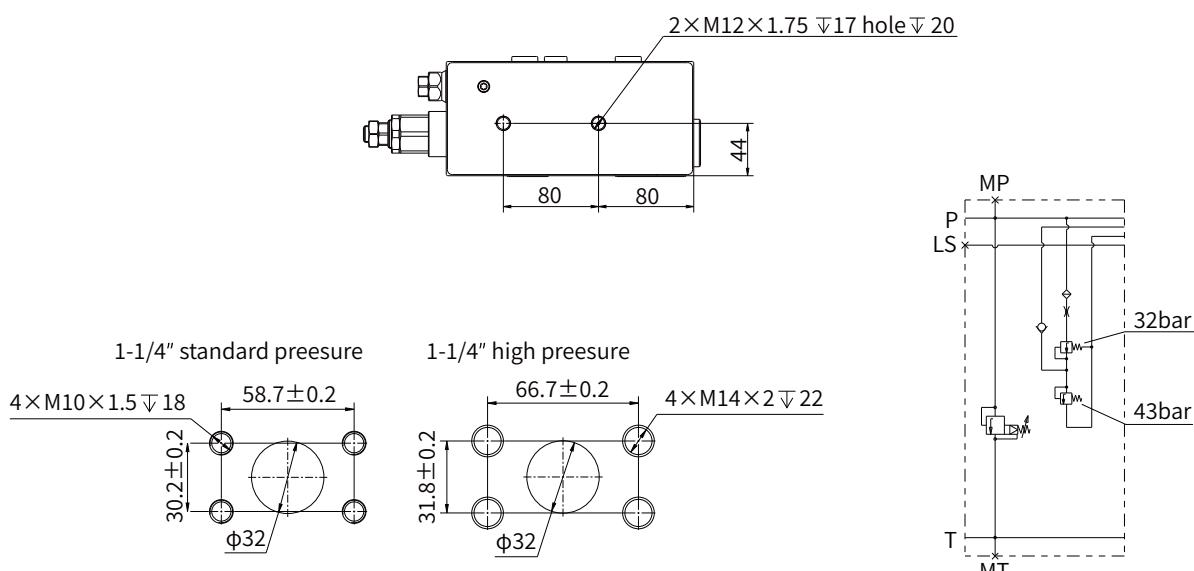
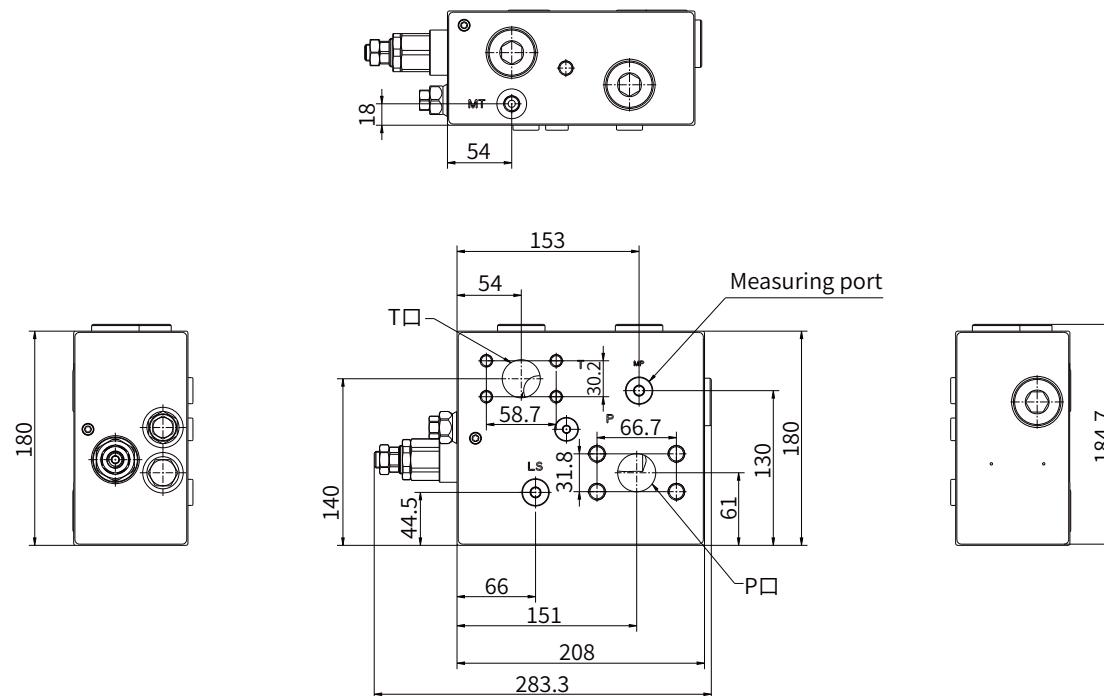
LSPV20





Inlet section — closed center

LSPV25



Port dimension

- P port: 1 1/4
T port: 1 1/4
LS port: G3/8
MB port: G3/8

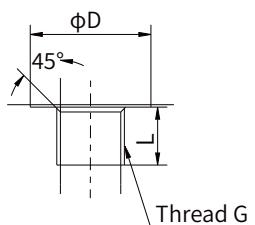
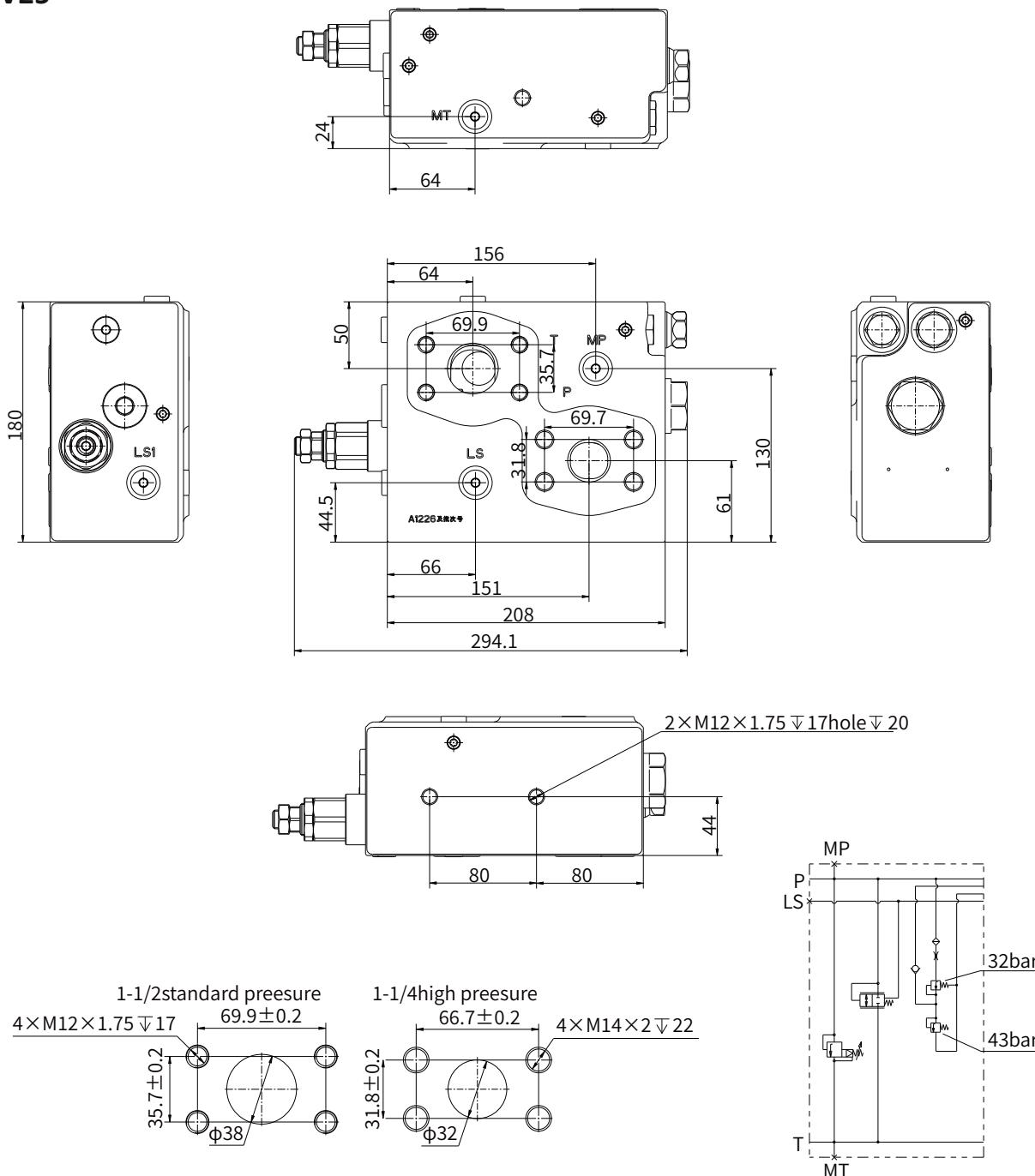
Thread dimensions

G3/8 : φD 30 L 15



Inlet section — open center

LSPV25



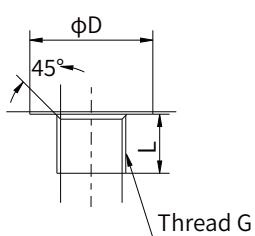
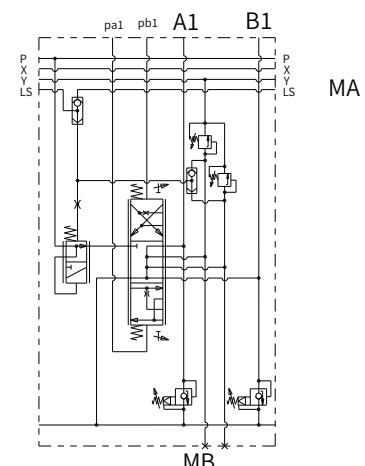
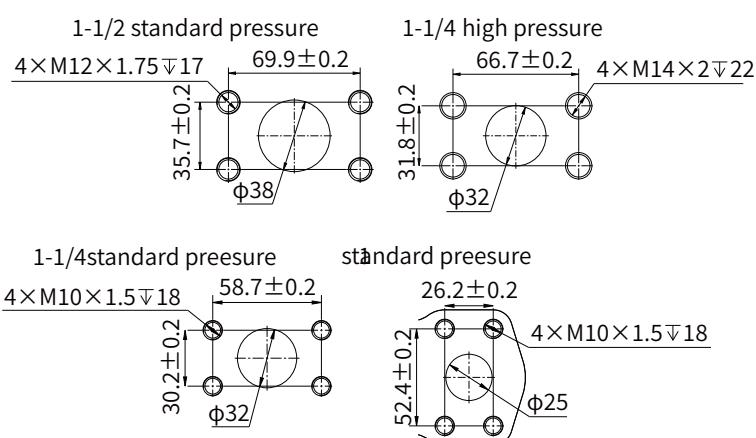
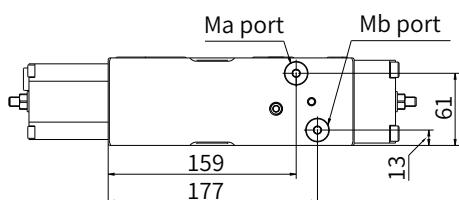
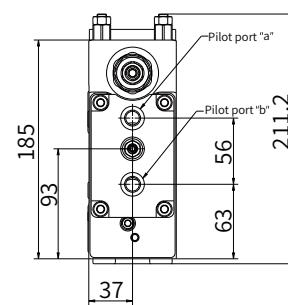
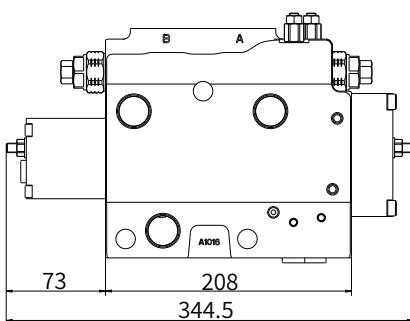
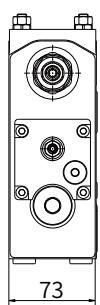
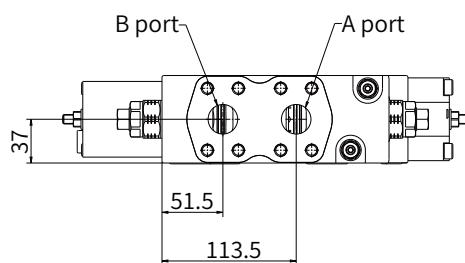
Port dimension
P port: 1 1/4
T port: 1 1/2
LS port: G3/8
MP port: G3/8
MT port: G1/4

Thread dimensions
G3/8 : φD 30 L 15
G1/4 : φD 24 L 12



Middle section—hydraulic

LSPV25



Port dimension

A/B port:

MA/MB/Pilot port: G1/4

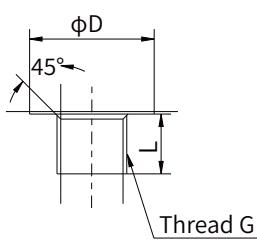
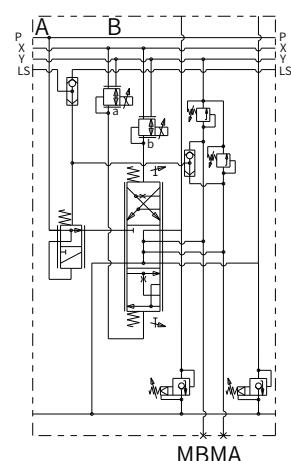
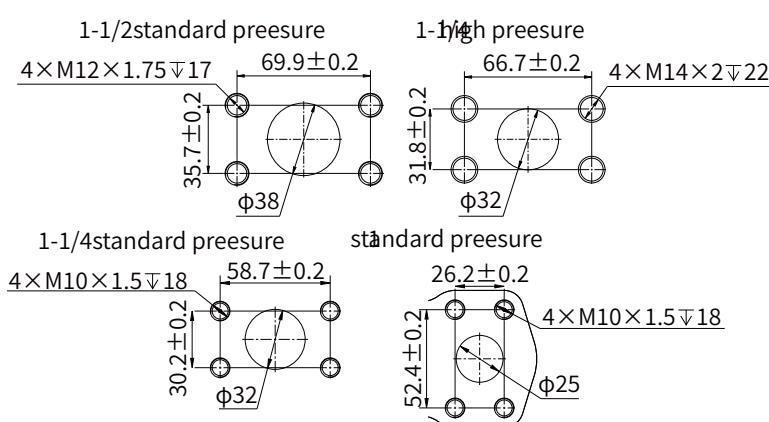
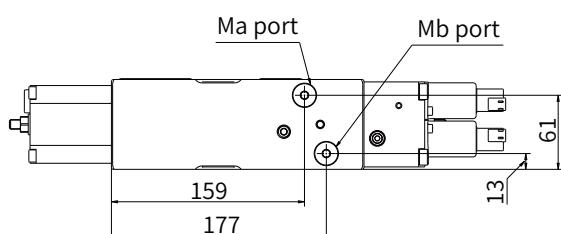
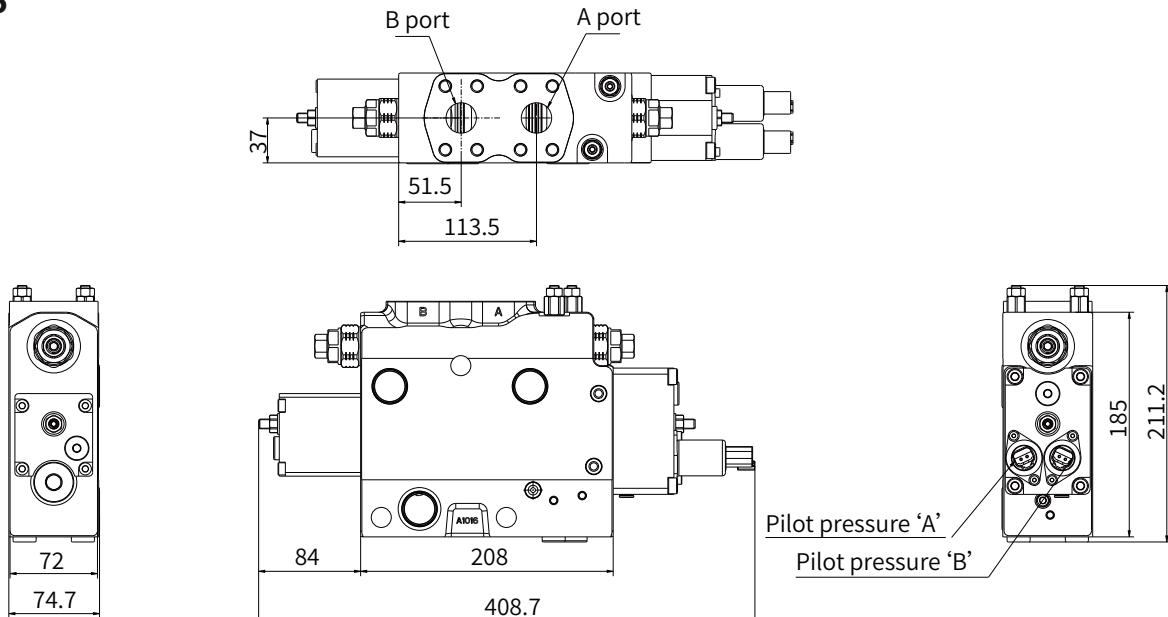
1 1/4 Thread dimensions

G1/4 : ϕD 25 L 12



Middle section—electro-hydraulic

LSPV25



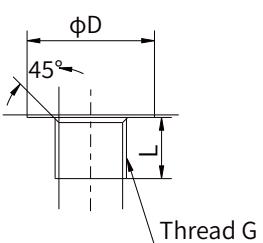
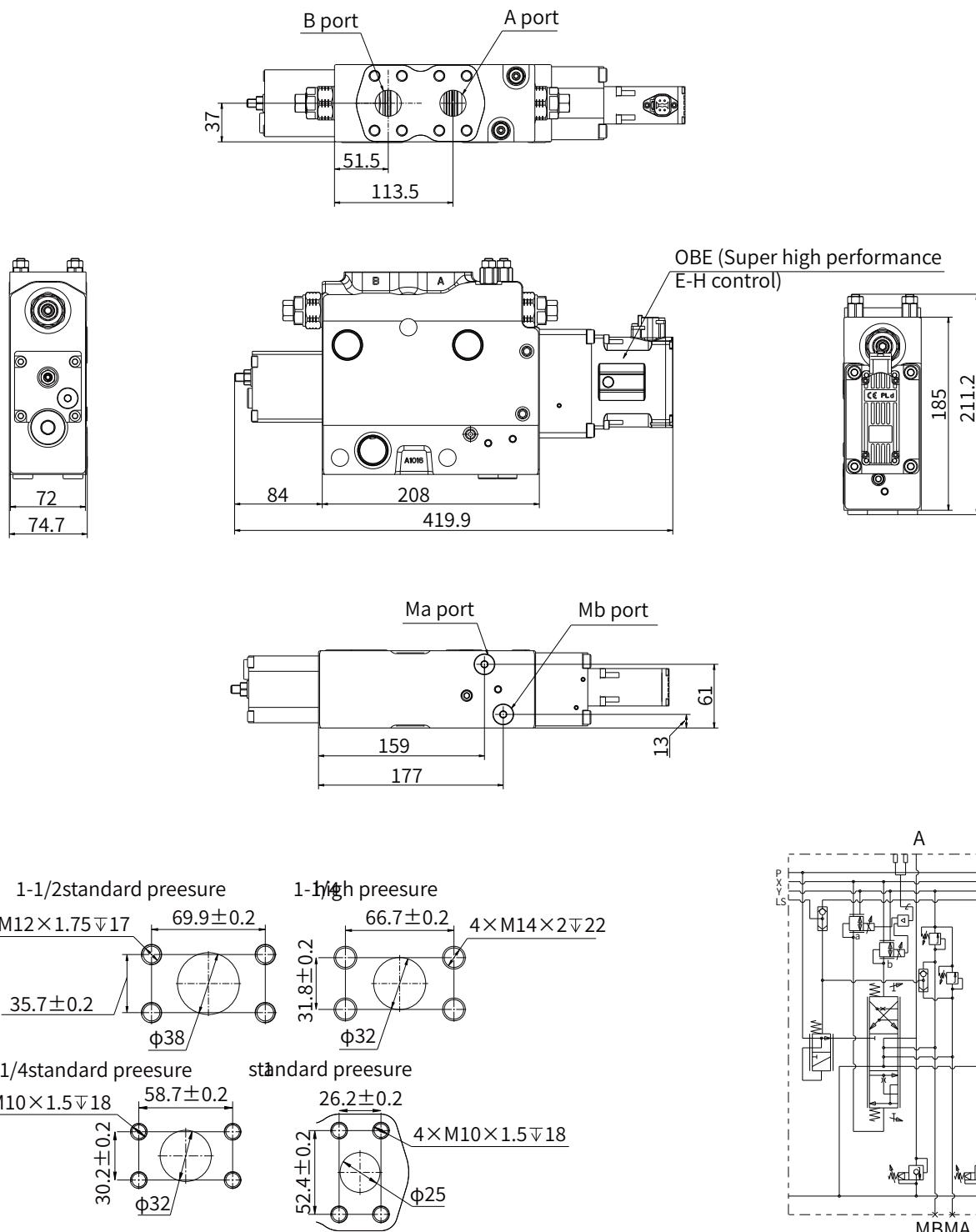
Port dimension
A/B port:
MA/MB/Pilot port: G1/4

1 Thread dimensions
G1/4 : ϕD 25 L 12



Middle section—OBE (Super high performance E-H control)

LSPV25



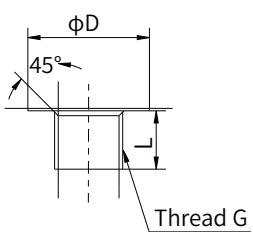
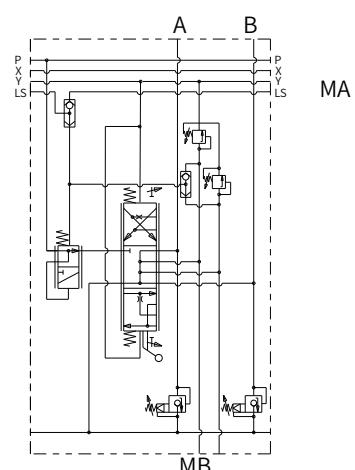
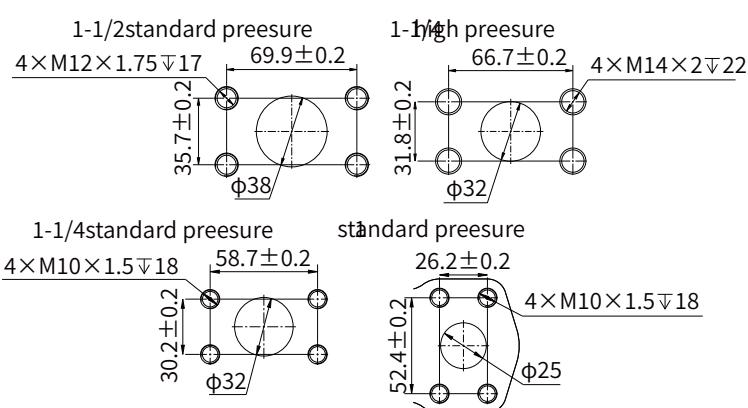
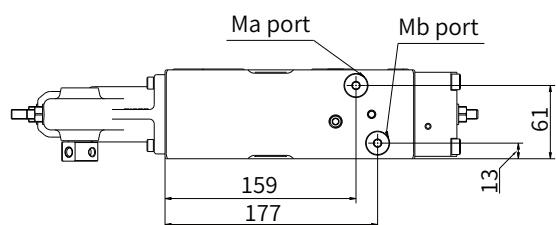
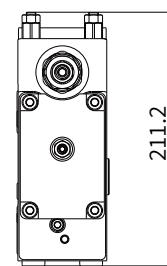
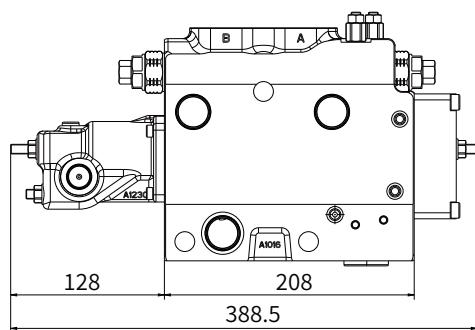
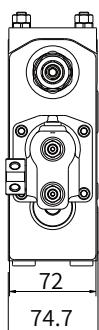
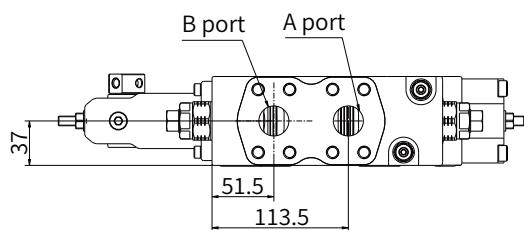
Port dimension
A/B port:
MA/MB/Pilot port: G1/4

1 Thread dimensions
G1/4 : ϕD 25 L 12



Middle section—manual control

LSPV25



Port dimension

A/B port:

MA/MB/Pilot port: G1/4

1

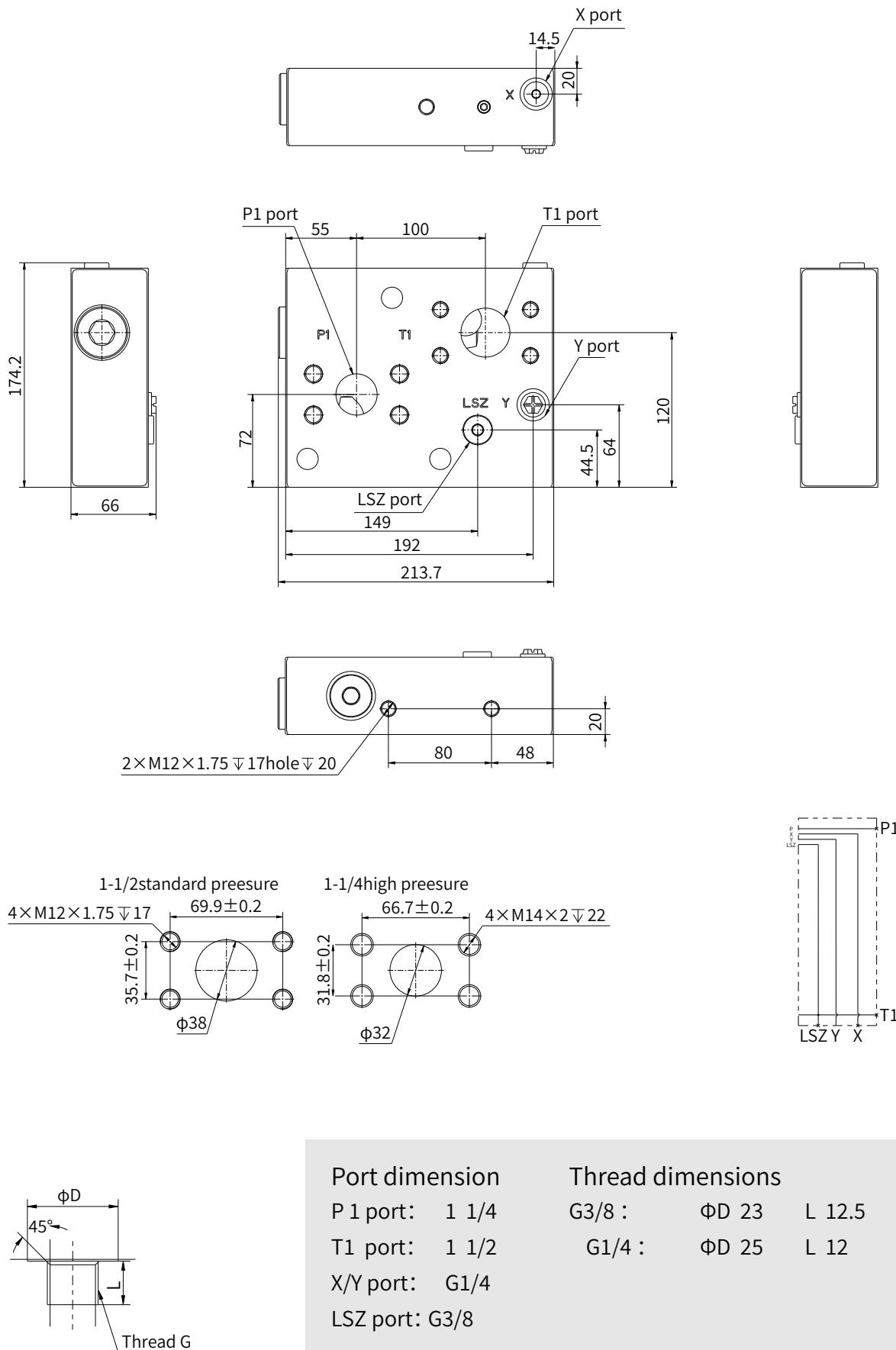
Thread dimensions

G1/4 : φD 25 L 12



Endlet section assembly (with additional P port)

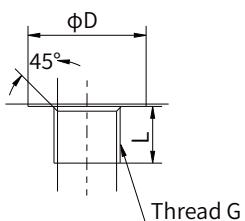
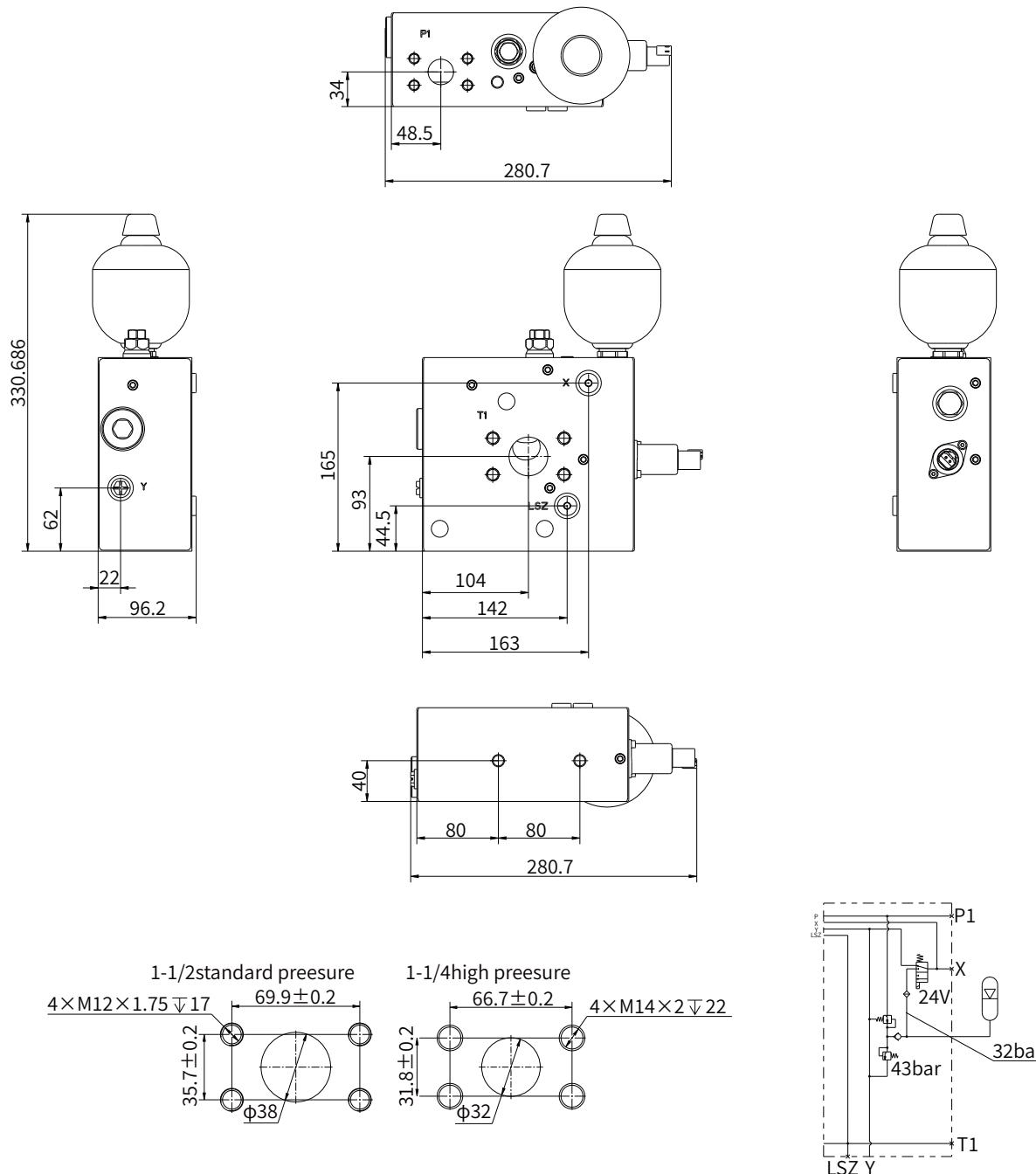
LSPV25





Endlet section assembly (with additional P port)

LSPV25



Port dimension

P 1 port: 1 1/4

T1 port: 1 1/2

X/Y port: G1/4

LSZ port: G3/8

Thread dimensions

G3/8: φD 23 L 12.5

G1/4: φD 25 L 12



Preferred spool flow

LSPV25

• Symmetry spool

Pressure
compensator Flow(L/min)

T	500	400	300	200	100	50
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• Asymmetry Spool

Pressure
compensator Flow(L/min)

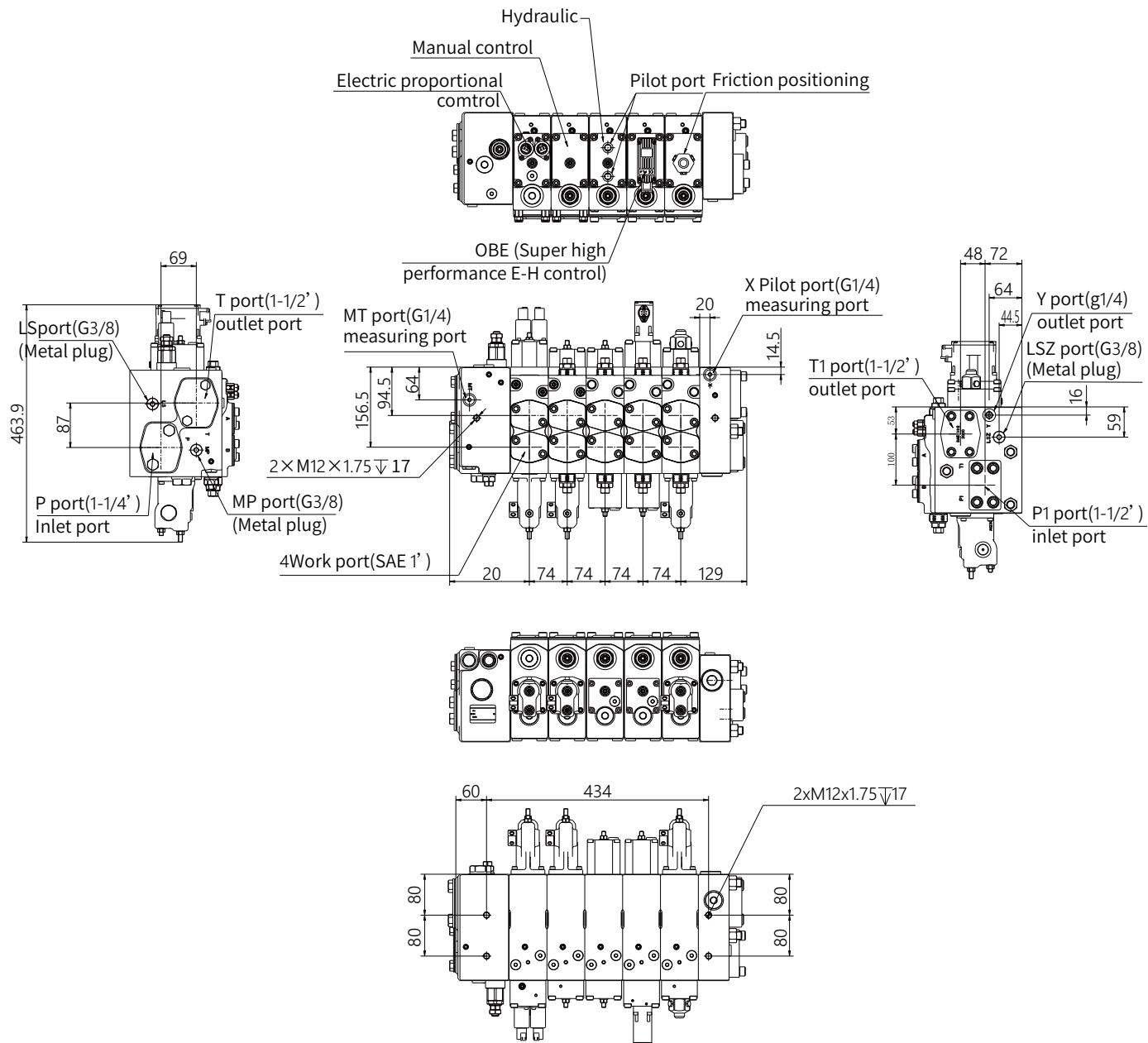
T	500-400	400-300	300-200	200-100	100-50
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(*For other parameter requirements, please consult our company)



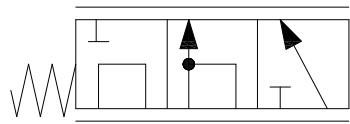
Unit dimensions

LSPV25





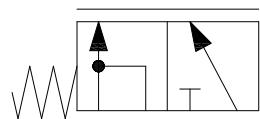
Pressure compensator type



Code 'S'

With pressure compensator

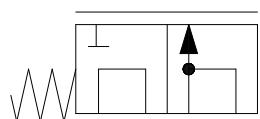
With load holding function



Code 'T'

With pressure compensator

Without load holding function

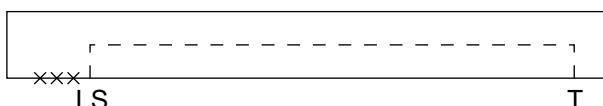


Code 'C'

Without pressure compensator

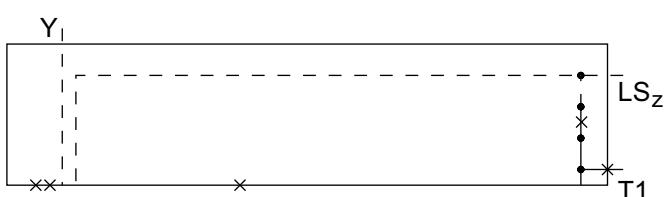
With load holding function

End elements option



End element with LS unloading

Ordering code: LA



End element without LS unloading

Ordering code: LZ

Short description

Supply of tandem switched LS signals

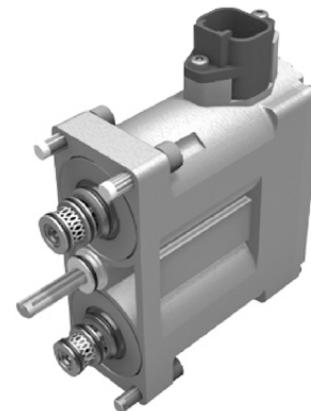


On-board electronics: OBE

The internal closed loop positon control configuration of the OBE control cover makes the valve spool achieve the desired postion with accuracy levels approaching the performance of a servo- valve, by continuously comparing the set-point of a remote control device (potentiometer, joystick , machine management system) with the feedback signal generated by a high precision hall effect position transducer.

Choice between different types of control:

- 1 - Analog control (0 – 5V), with following auxiliary signals available:
 - spool position feedback
 - 5V for external potentiometer or joystick
- 2 - CANbus control (J1939 or CANopen protocols)



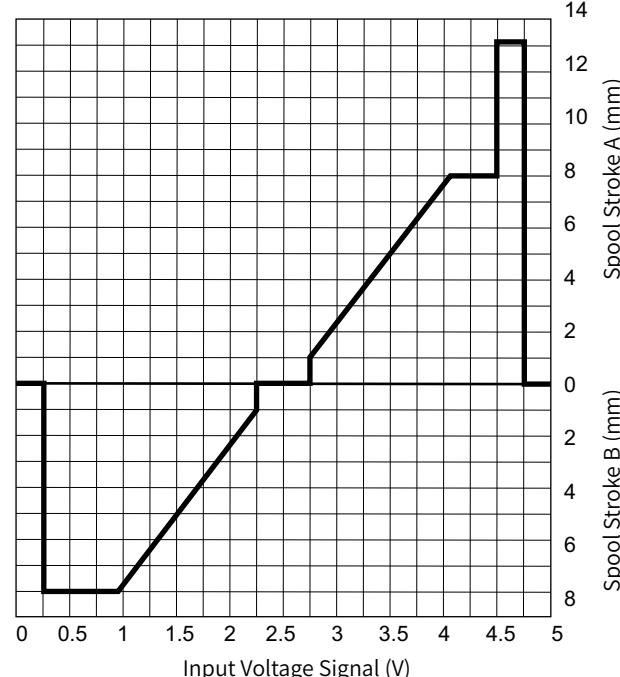
SPOOL STROKE A

When the input voltage signal fed to the MLT FD5 actuator is maintained within 2.25 and 2.75V, the directional valve spool is at rest (Neutral Dead Band). When $V_{in} = 2.75V$, the spool steps up from NEUTRAL to MINIMUM FLOW control position. A linear ramp from MIN. to MAX. spool stroke will follow by increasing V_{in} from 2.75 to 4.1V. At $V_{in} = 4.50V$, the spool is brought into its FLOAT POSITION, if present. By decreasing the input voltage from 4.1 to 2.75V, the spool stroke is linearly reduced and after the oil flow is fully shut-off, a step-down from MINIMUM FLOW to NEUTRAL position takes place.

SPOOL STROKE B

Same as for STROKE A, by varying V_{in} from 2.25 to 0.9V, the spool will go from NEUTRAL to MAX. STROKE in the opposite direction.

Spool Stroke (mm) VS Input Voltage Signal (Volt DC)



ALARM / FAIL - SAFE MODE

An input voltage variation beyond the calibration range (<0.25V or >4.75V) will bring the system into an ALARM mode, urging the spool to return to its NEUTRAL position until V_{in} is brought back to its nominal control range.



On-board electronics: OBE

Technical data

Hydraulic specifications:

Max. supply pressure: 35 bar

Min. supply pressure: 12bar

Max. back pressure: 1.5bar

Pilot flow requirement: 0.2 L/min

Filtration: 18/15(ISO 4406)

Electrical specifications:

Operating voltage: 10-30VDC

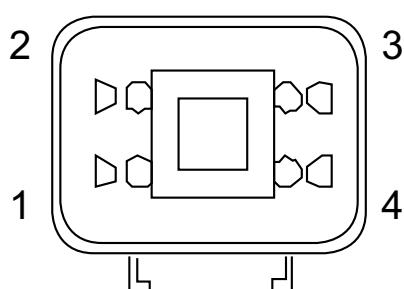
Max., current consumption: 750mA

Analog input impedance: >40kOhm

Analog input signal: 0-5 V

Protection class: IP67

Connector pinout (Front view)



D/A0

1. + Power Supply
2. Do not Connect
3. Control Signal
4. - Power Supply (GND)

D/A5

1. + Power Supply
2. + 5V Aux. Supply voltage
3. Control Signal
4. - Power Supply (GND)

D/AF

1. + Power Supply
2. Sensor Feedback Output
3. Control Signal
4. - Power Supply (GND)

D/C0

1. + Power Supply
2. CANL
3. CANH
4. - Power Supply (GND)



The specified data is for product description purposes only and may not be deemed to be guaranteed unless expressly confirmed in the contract.

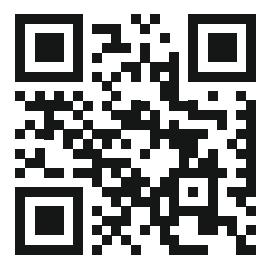


THM

HYDRAULICS

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