



Load-sensing Multi-way Valve PC Series

Nominal Pressure
Pump Side 35 MPa
Working Side 40 MPa

Max Flow
Side Inlet 140 L/min, Central Inlet 230 L/min
Working Port 120 L/min



Features



- Flow control is independent of load pressure
 - The open center design for fixed displacement pumps.
 - The close center design for variable displacement pumps.
- Sectional design, up to 10 directional control spools.
- Pressure limit
 - Inlet section: large nominal bore, pilot-operated relief valve.
 - Work section: Compact anti-shock valve with anti-cavitation function.
- LS relief
 - Individually adjustable for each actuator port.

Contents



● Fractional Description	02
● Technical Data	03
● Modular System.....	04
● Order Code	06
● Order Code-inlet section	07
● Order Code-work section	09
● Order Code-end section	11
● Order Example.....	12
● Control Spool	19
● Control Signal - Flow Characteristic	19
● Operational Type.....	20
● Mounting and connection Dimensions.....	26
● Accessories	28



> Functional Description

Multi-way Valve PC12

This multi-way valve is a proportional type that operates on the load sensing control principle

Actuator Control

The control spool (2) is used to determine the direction of flow and the flow rate to the actuator ports (A or B).

The pressure reducing valve (10) controls the position of the control spool (2). The current of the pressure reducing valve determines the pilot pressure in the spring chamber (9), thereby controlling the stroke of the control spool (P→A; P→B).

The stroke control of the control spool can be achieved through OBE operation.

The pressure compensator (3) maintains the pressure differential across the control spool (2), ensuring constant flow to the actuator.

Load Pressure Compensation

The pressure compensator (3) compensates for pressure changes at the actuator or pump, ensuring a constant flow to the actuator regardless of load variations.

Flow Restriction

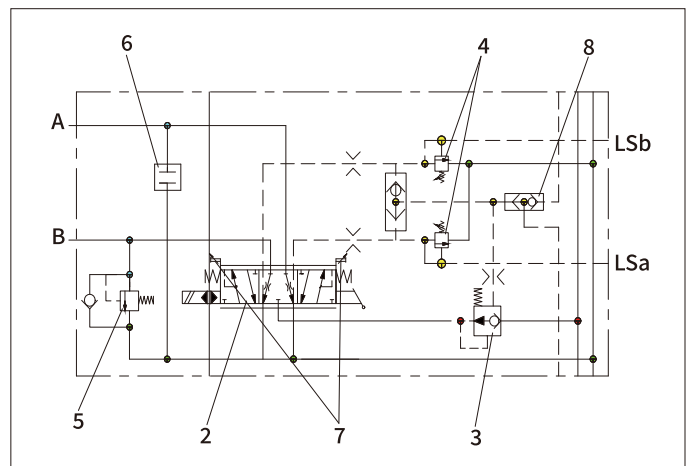
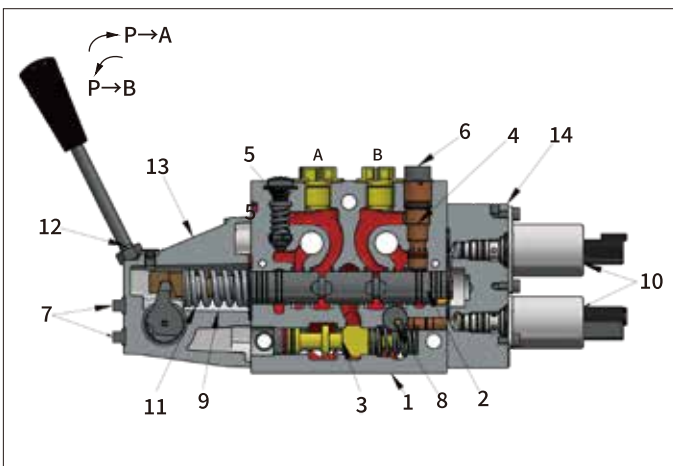
Depending on the order code, the maximum flow rate can be individually set mechanically using the stroke limiter (7) before delivery.

Pressure limit

The LS pressure at each actuator port can be realized internally via the LS relief valve (4), with electro-proportional control per section also achievable through the external LS ports LSa, LSb.

The large nominal bore has anti-shock valve with anti-cavitation function (5) can protects actuator ports A and B from pressure peaks.

The highest load pressure is fed back to the pump via the LS line and the integrated shuttle valve (8).



- | | |
|--|-----------------------|
| 1 Valve body | 2 Control valve spool |
| 5 Anti-shock valve with anti-cavitation function | |
| 8 LS shuttle valve | 9 Spring chamber |
| 12 Handle | 13 A-side end cover |

- | | |
|----------------------------|-----------------------|
| 3 Pressure compensator | 4 LS relief valve |
| 6 Threaded plug | 7 Stroke limiter |
| 10 Pressure reducing valve | 11 Compression spring |
| 14 B-side end cover | |



Technical Data

General								
Weight	Inlet section	kg	P	J	JZ			
			3	3.1	3.1			
	Work section	kg	M	H	W	OBE		
			3.1	3.0	3.2	3.3		
	Handle	kg	0.4					
	End section	kg	LA	LAPT	LZ	LZPT		
1.7			0.5					
Actuator Port Connections			Pipe threads in accordance with JIS B2351-1, ISO 1179-1, UNF SAE 1926-1, or DIN 3852-3 (available upon request)					
Ambient Temperature Range		°C	-20 to +80 °C (-40 to +100 °C available upon request)					
Primer (Standard)			Primer coat (Standard) One coat RAL 7000 (additional primer coats available upon request)					
Mechanical handle								
Operating force (applied to the handle) (Packaging)	Mechanical operation	Nm	5.6±0.2					
	Mechanical override control (during hydraulic shifting)	Nm	13.8±0.2					
	Mechanical override control (during electro-hydraulic shifting)	Nm	5.6±0.2					
Hydraulic								
At the ports: Maximum operating pressure	P	p _{MAX}	bar	350				
	A/B	p _{MAX}	bar	400				
	LS	p _{MAX}	bar	325				
	T	p _{MAX}	bar	25/40				
At the ports: Maximum pilot pressure	a/b	p _{Standard}	bar	30				
	X	p _{Standard}	bar	30				
Maximum flow rate	Inlet section Port P	q _{vMAX}	L/min	P	J	JZ	VZ	
				140	140	230	230	
	Inlet section Port A/B	q _{vMAX}	L/min	100L/min with pressure compensation 125L/min without pressure compensation				
Spool stroke			mm	±7				
Hydraulic oil				Mineral oil conform to DIN 51524				
Range of hydraulic oil temperature			°C	-30~+90				
Pilot pressure range	Hydraulic		bar	6.5...17.2				
	Electro-hydraulic		bar	6.5...17.2				
Viscosity range		v	mm ² /s	12...75				
Maximum permissible contamination level of hydraulic fluid Cleanliness level (in accordance with ISO 4406)				23/19/16				
Electrical								
Connection type	1and3			Junior Timer,2-pin(AMP)				
	8and9			Deutsch				
Degree of protection in accordance with ISO 20653	Connection type 1 and 3			IP65				
	Connection type 8 and 9			IP67,IP69K				



> Modular System

The multi-way valve in the PC12 series features a modular design. These can be combined to offer the perfect solution for various applications.

Multi-way valve with side inlet section

1. Side inlet section

A: Open center **P**
B: Close center **J**

2. Work section

2.1 LS relief value

2.3 Operation on A side
(Standard installation)

A: Aluminum end cover without shaft

B: Aluminum end cover with shaft,
without handle **R**

C: Aluminum end cover with shaft,
with handle **B**

D: Aluminum end cover with shaft,
without handle **RI**

E: Aluminum end cover with shaft,
with handle **BI**

2.2 Secondary relief value

2.4 Operation on B side

A: Mechanical **M**

B.: Friction positioning **MR/MF**

C.: Hydraulic **H**

D.: Electro-hydraulic **W**

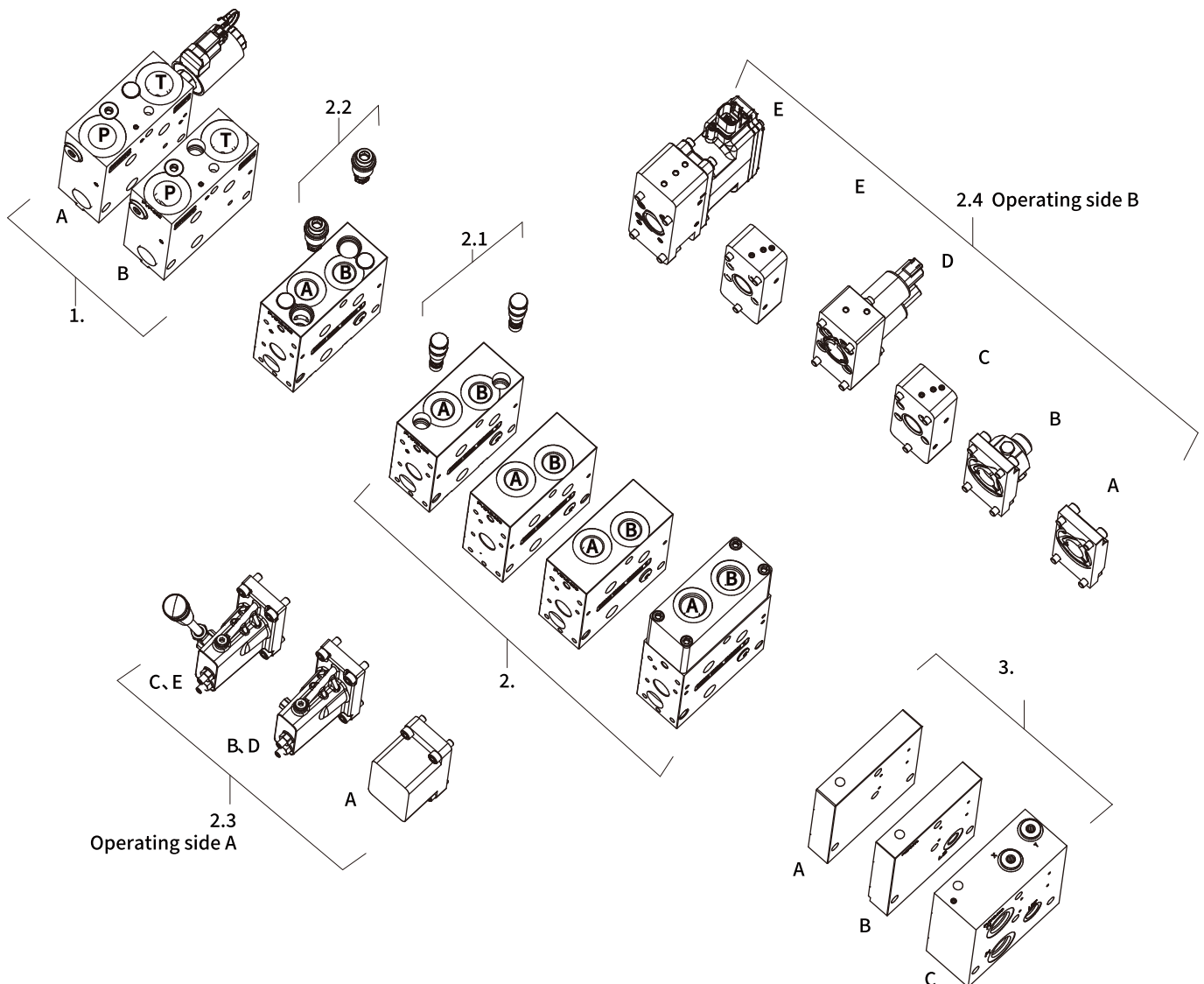
E.: With on-board electronics (**OBE**)

3. End section

A: LS port without external connection **LA**

B: LS port with external connection **LZ**

C: LS port with external connection port
P, T LZPT

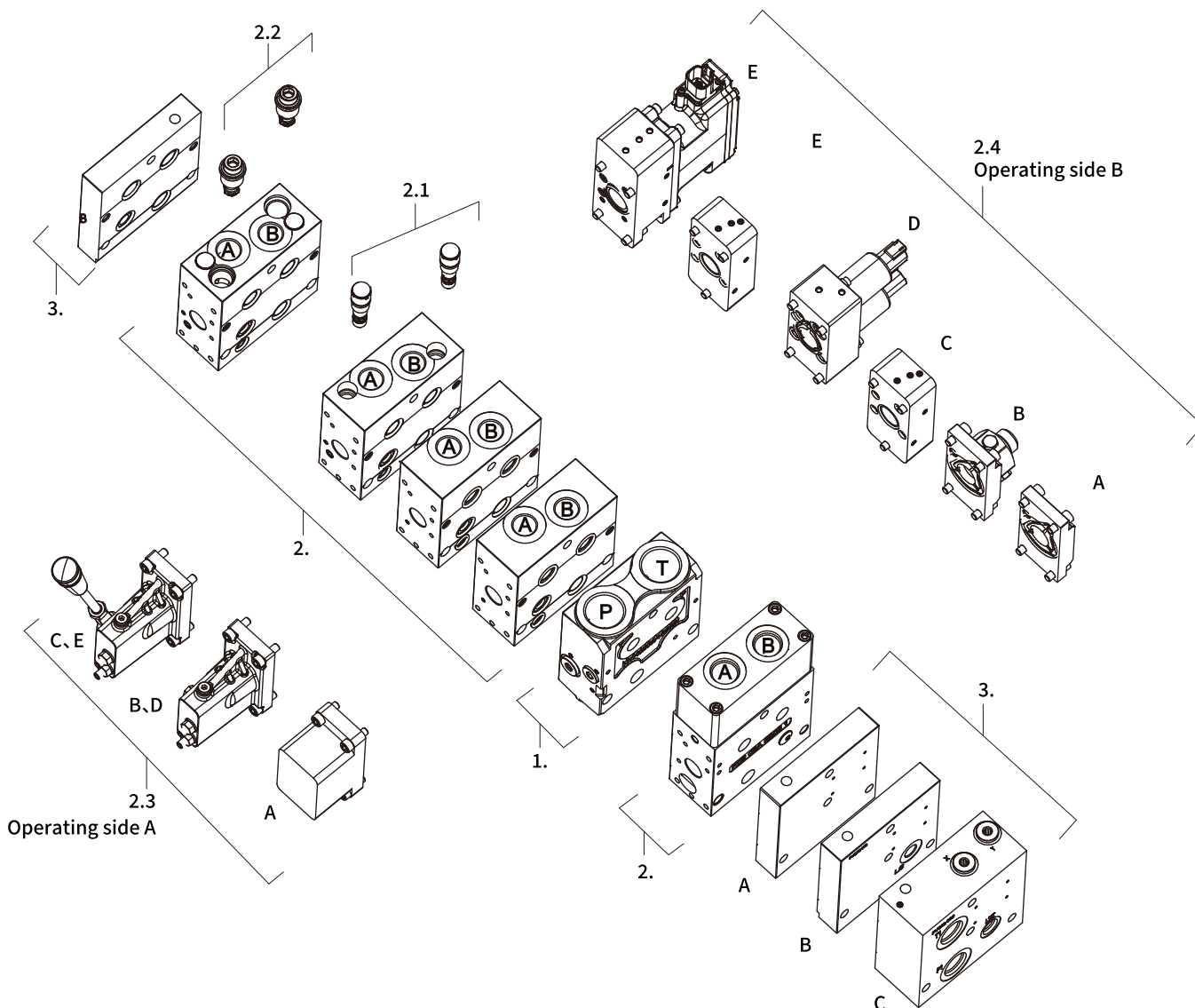




Modular System

Multi-way valve with center inlet section

- | | | |
|--|---|--|
| 1.Center inlet section JZ | 2.Work section | 3.End section |
| 2.1 LS relief valve | 2.2 Secondary relief valve | A:LS port without external connection LA |
| 2.3 Operation on A side
(Standard installation) | 2.4 Operation on B side | B:LS port with external connection LZ |
| A:Aluminum end cover without shaft | A:Mechanical M | C:LS port with external connection port
P,T LZPT |
| B:Aluminum end cover with shaft,
without handle R | B.:Friction positioning MR/MF | |
| C:Aluminum end cover with shaft,
with handle B | C.:Hydraulic H | |
| D:Aluminum end cover with shaft,
without handle RI | D.:Electro-hydraulic W | |
| E:Aluminum end cover with shaft,
with handle BI | E.:With on-board electronics (OBE) | |





> Order Code

Technical description on nameplate

The order code is used to record technical features and requirements.

The Hytek sales organization uses the order code to derive the short code and material number.

Example: PC12 multi-way valve with 8 directional spools

	A		C	G	H		O	P	W	X		D		Z
PC	12	—	P	NNN	225	—	N	08	K	W2	—	MO	—	S0001

Sort string	Description
A	Product Specifications
C	Inlet Section Type
G	Main Relief Valve Pressure Setting
H	LS Main Relief Valve Pressure Setting
O	Valve Body with hydraulic lock with Ports A and B
P	Number of work sections
W	Operation on A side
X	Operation on B side
D	Port thread standard
Z	Special configuration



> Inlet section

	C	E	F	G	H	I	J	K	L	M
PVP12	—		/		—			—		

Design, System

C	Open center	Open center	P
	Closed center	Side inlet section	J
		Center inlet section	JZ
		Center inlet section with priority valve	VZ

Port thread standard

D	JIS B2351-1	BSPO
	ISO 1179-1	BSPED
	UNF SAE J1926-1	UNFO
	DIN 3852-3	MO
	DIN 3852-1	MED

First section port specification

E	P, T standard port; see dimension table	G06
	Reduced P, T ports; see dimension table	G04G06

Pilot oil supply

F	Without Pilot-operated relief valve	Without external port	N
		With external port	X
	Integrated Pilot Relief Valve	Without external port	I
		With external port	O
		With external port and check valve	C
		With external high-pressure oil source connector and check valve	P

Relief Valve Pressure Setting

G	Without main relief valve	NNN
	Three-digit number; example: main relief valve pressure setting 350 bar	350
H	Three-digit number; example: LS relief valve pressure setting 330 bar	330

LS Solenoid Unloading Valve

I	Without solenoid unloading valve	NN
	Normally open, 12V	O1
	Normally close, 12V	C1
	Normally open, 24V	O2
	Normally close, 24V	C2

Damping Orifice

J	Without orifice from LS to compensator (retrofittable)	NN
	With orifice (diameter specified in 0.1 mm increments) from LS to compensator	06
K	Without orifice from LS to pump (retrofittable)	NN
	With orifice (diameter specified in 0.1 mm increments) from LS to pump	06
L	Without damping orifice from P to compensator (non-spring chamber side), retrofittable	NN
	With damping orifice (diameter in 0.1 mm steps) for damping from P port to compensator non-spring chamber	06



> Inlet section

		C	E		F		G	H		I	J	K	L	M
PVP12	—			/		—			—					

Pilot oil separate return

M	Without pilot oil separate return	T
	With pilot oil separate return	T0

☐ Recommend modle



Work section

		N	O	Q	R	S	T	U	V	W	X	Y		AA	AB		AC
PVB12	—												—			—	

Pressure Compensator

N	With pressure compensator and load holding function	S
	With damped pressure compensator and load holding function	A
	Without pressure compensator, with load holding function	C

Valve body with hydraulic lock at ports A and B

O	Without hydraulic lock	N
	With hydraulic lock at port A ¹⁾	ZA
	With hydraulic lock at port B ¹⁾	ZB
	With hydraulic lock at port A and B ¹⁾	Z

LS relief valve at port A (in the valve body)

Q	Without LS relief valve (not machined)	Z
	With LS relief valve (three-digit pressure setting in bar)	L300

LS relief valve at port B (in the valve body)

R	Without LS relief valve (not machined)	Z
	With LS relief valve (three-digit pressure setting in bar)	L300

LS pressure measuring port

S	Without bottom LS pressure measuring port	Z
	With bottom LS pressure measuring port	M

Work section port specification

T	Standard ports A and B; see dimension table	G04
	Reduced ports A and B; see dimension table	G03

Spool function

U	Three-position, four-way closed neutral position	E
	Three-position, four-way open neutral position	J
	Three-position, four-way throttling open neutral position	Q
	B-side floating position, closed neutral position	W
	A-side floating position, closed neutral position	Y

A and B port flow

V	For the flow control spool: Flow rate for A→T and P→A: [three-digit number] L/min Flow rate for P→B and B→T: [three-digit number] L/min	065-065-065-065
	Pressure control spool (used only with E)	...M...

Operate side A

W	Standard aluminum end cap, without shaft (no code)	
	Aluminum end cap with shaft ,without handle	R
	Aluminum end cap with shaft ,with handle	B
	Cast iron end cap with shaft, without handle	RI
	Cast iron end cap with shaft, with handle	BI

¹⁾When this option is selected, Q, R, AA, and AB cannot be selected.

**> Work section**

		N	O	Q	R	S	T	U	V	W	X	Y		AA	AB		AC
PVB12	—												—			—	

Operate side B

X	Mechanical ²⁾	Encapsulation	M
		Friction positioning at any position	MR
		Floating position lock ³⁾	MF
	Hydraulic		H
	Electro-hydraulic proportional	Standard	W2
		Pressure tap on both sides	W8
		With damping orifice and check valve for hydraulic override	G2
	Electro-hydraulic proportional	Standard	W4
		Damping orifices on both sides	W5
		Pressure tap on both sides	W6
		With damping orifices and pressure taps on both sides	W7
		With damping orifice and check valve for hydraulic override	G4
	With on-board electronics (OBE) for general performance	Closed-loop control, voltage control, hysteresis 3%	EA
	With on-board electronics (OBE) for advanced performance	Closed-loop control, voltage control, hysteresis 0.5%	EH
		Closed-loop control, SAE J1939 protocol, hysteresis 0.5%	CC
		Closed-loop control, CANopen protocol, hysteresis 0.5%	CX

Power supply voltage and connector type

Y		24V	12V
	Hydraulically controlled, without solenoid	N	
	Junior Timer, 2-pin (AMP)	1	3
	Deutsch	8	9

A port relief valve

AA	Charge relief valve	Non-adjustable, three-digit number; bar	H330
		Adjustable, three-digit number; bar	A330
	Make-up check valve		E
	Without secondary relief valve	Plug, can be retrofitted with secondary relief valve	Q
		Cannot be retrofitted with secondary relief valve	Z

B port relief valve

AB	Charge relief valve	Non-adjustable, three-digit number; bar	H330
		Adjustable, three-digit number; bar	A330
	Make-up check valve		E
	Without secondary relief valve	Plug, can be retrofitted with secondary relief valve	Q
		Cannot be retrofitted with secondary relief valve	Z

Hydraulic pilot port direction

AC	Other control types	N
	Two ports on the same side, oriented horizontally and positioned one above the other	5

²⁾Always used in conjunction with the end cover featuring a shaft and handle. ³⁾To be used with spool functions W (B-side float) and Y (A-side float).



► End section, Additional information

		AD	AE	AF
PVS12	—			

End section

AD	LS has no external port	LS internally connected to T	LA
		LS internally connected to T, with additional P and T ports	LAP1T1-1
	LS has an external port	LS internally not connected to T	LZ
		LS internally not connected to T, with additional P and T ports	LZP1T1-1

Seal material

AE	FKM	V
	NBR	P

End block port specifications

AF	For LA and LZ (no code)	
	P and T standard ports; see dimension drawing	G06
	Reduced P and T ports; see dimension drawing	G04

☐ Recommended model
 ☒ Available
 ☐ On request
 — Not available



Ordering example

Open center with side inlet section

Example - Two-section multi-way valve
 'with two directional control sections -
 Fixed displacement pump $q_v \text{ max} = 120 \text{ L/min}$

Inlet section

- Open center, side
- With LS relief valve, set at 250 bar
- Internal pilot supply

Order code

Inlet section

C	E		F		G	H		I	J	K	L	M
P	G06	/	I	—	NNN	250	—	NN	NN	NN	NN	T

First working section

- With pressure compensator, with load-holding
- With LS relief valve port
- Spool function J
- A port flow 80 L/min
- B port flow 80 L/min
- Control type: Electro-proportional control, mechanical, spring-centered
- Without secondary relief valve

First working section

N	O	Q	R	S	T	U	V	W	X	Y		AA	AB		AC
S	N	L120	L200	Z	G04	J	080-080-080-080	B	W8	8	—	Z	Z	—	N

Second working section

- With pressure compensator, with load-holding
- Without LS relief valve port
- Spool function Q
- A port flow 16 L/min
- B port flow 10 L/min
- Control type: Electro-proportional control, mechanical, spring-centered
- Without secondary relief valve

Second working section

N	O	Q	R	S	T	U	V	W	X	Y		AA	AB		AC
S	N	Z	Z	Z	G04	Q	016-016-010-010	B	W8	8	—	Z	Z	—	N

End working section additional information

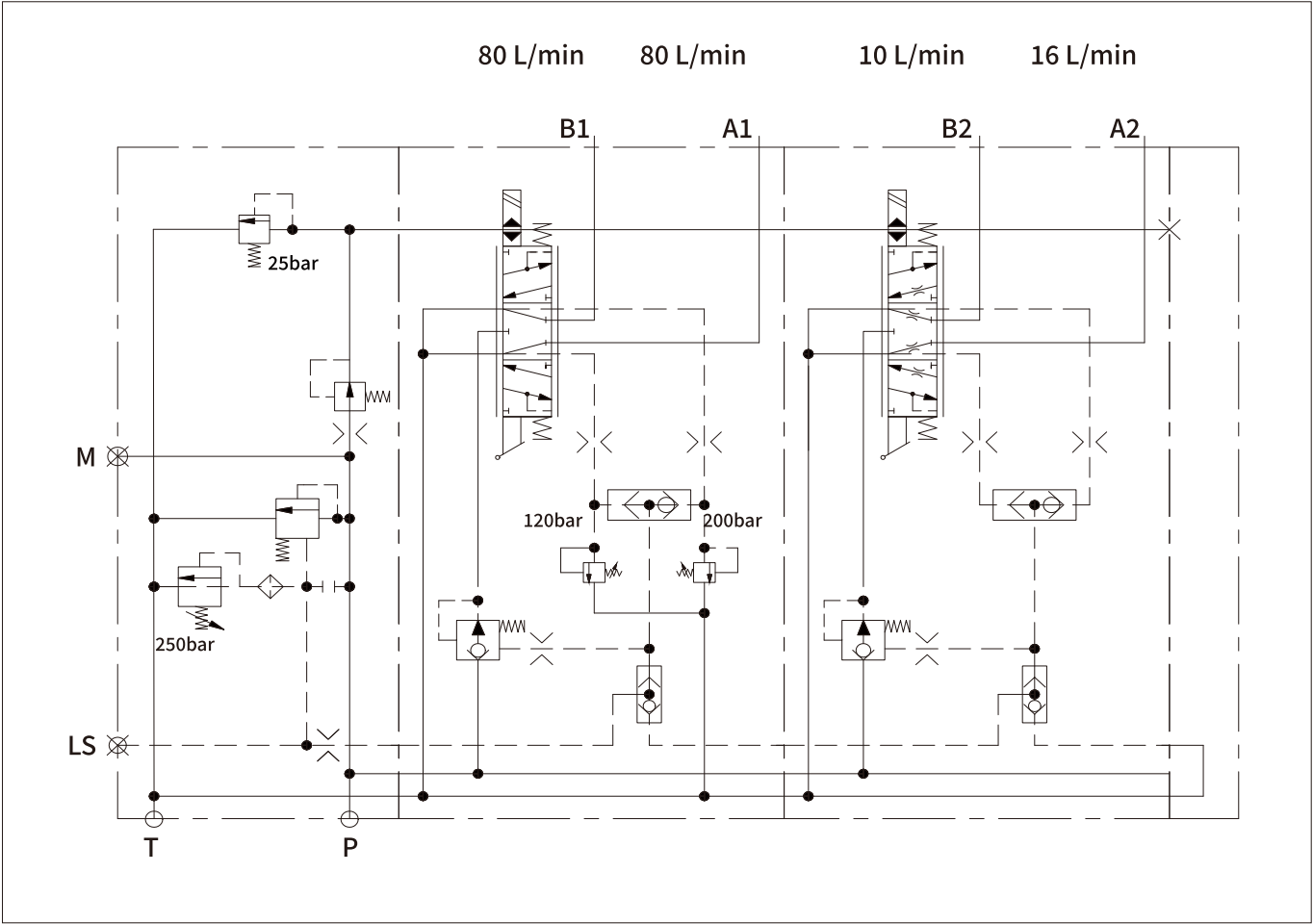
- Without external ports
- NBR seal material

End working section ,additional information

AD	AE	AF
LA	P	



► Hydraulic schematic diagram





> Ordering example

Closed center with central inlet section

Example - Three-section multi-way valve
with three directional control sections -
Variable displacement pump $q_v \text{ max} = 120 \text{ L/min}$

First working section

- With pressure compensator, with load-holding
- With LS relief valve port
- Spool function Q
- A port flow 100 L/min
B port flow 100 L/min
- Control type: Electro-proportional control, mechanical, spring-centered
- With charge check valve

Inlet section

- Closed center, center
- With LS relief valve, set at 250 bar
- Internal pilot supply

Ordering code

First working section

N	O	Q	R	S	T	U	V	W	X	Y	AA	AB	AC		
S	N	L210	L210	M	G04	Q	100-100-100-100	B	W8	8	—	E	E	—	N

Short code, Inlet section

C	E	F			G	H	I		J	K	L	M
JZ	G06	/	I	—	NNN	250	—	NN	NN	NN	NN	T

Second working section

- With pressure compensator, with load-holding
- With LS relief valve port
- Spool function Q
- A port flow 100 L/min
-B port flow 100 L/min
- Control type: Electro-proportional control, mechanical, spring-centered
- With charge check valve

Second working section

N	O	Q	R	S	T	U	V	W	X	Y	AA	AB	AC		
S	N	L125	L210	M	G04	Q	100-100-100-100	B	W8	8	—	E	E	—	N

Third working section

- With pressure compensator, with load-holding
- With LS relief valve port
- Spool function Q
- A port flow 15 L/min
-B port flow 15 L/min
- Control type: Electro-proportional control, mechanical, spring-centered
- Without secondary relief valve

Third working section

N	O	Q	R	S	T	U	V	W	X	Y	AA	AB	AC		
S	N	L180	L180	M	G04	Q	015-015-015-015	B	W8	8	—	Z	Z	—	N

End block

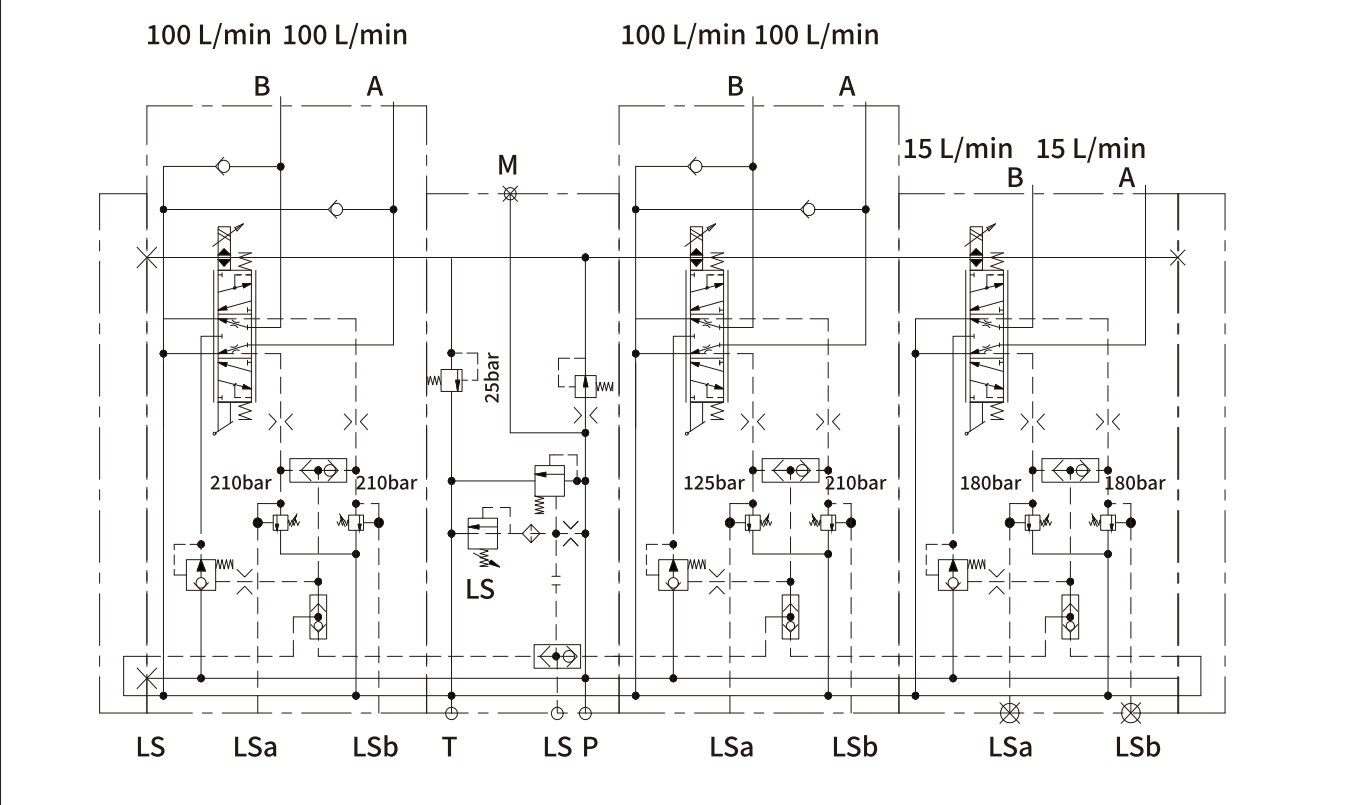
- Without external ports
- additional information
- NBR seal material

End block,with additional information

AD	AE	AF
LA	P	



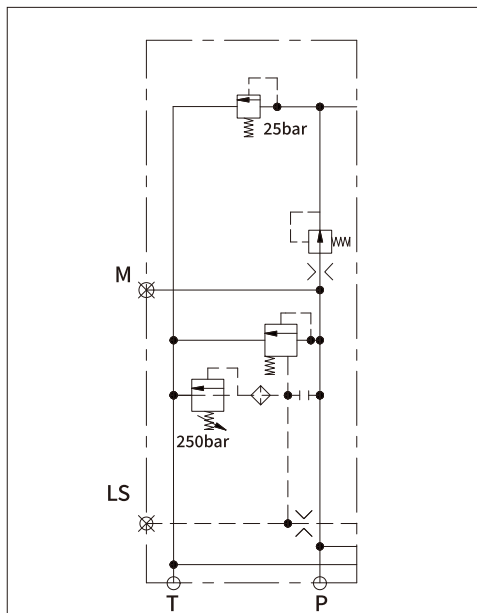
➤ Hydraulic schematic diagram





> Side inlet section

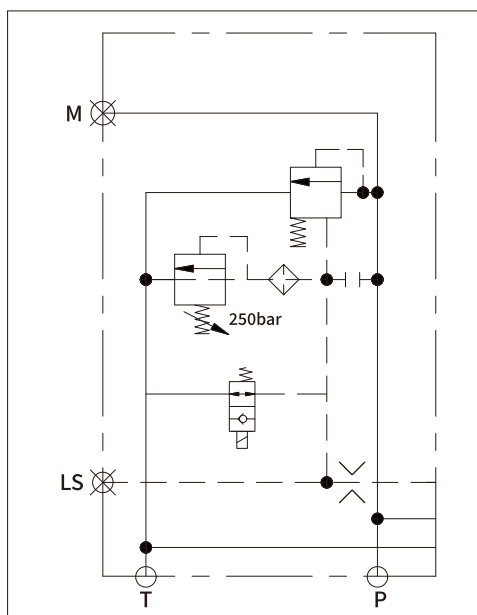
Open center
With LS relief valve and
internal pilot supply



Order code

C	E		F		G	H		I	J	K	L	M
P	G06	/	I	—	NNN	250	—	NN	NN	NN	NN	T

With LS solenoid-operated
unloading valve



Order code

C	E		F		G	H		I	J	K	L	M
P	G06	/	N	—	NNN	250	—	O2	NN	NN	NN	T

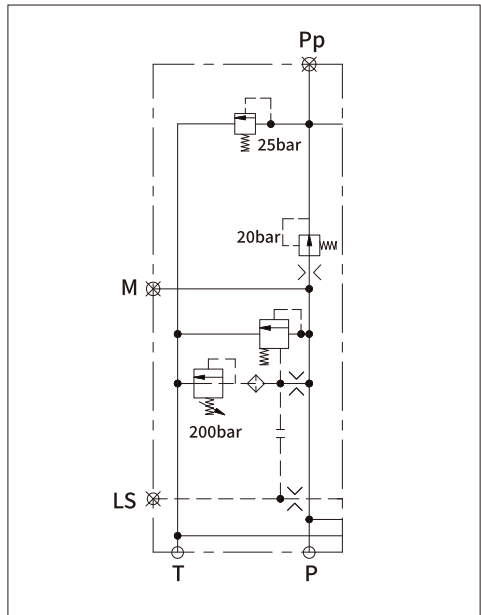


Side inlet section

Closed center
With LS relief valve and
internal pilot supply

Order code

C	E		F		G	H		I	J	K	L	M
J	G06	/	O	—	NNN	200	—	NN	NN	NN	NN	T

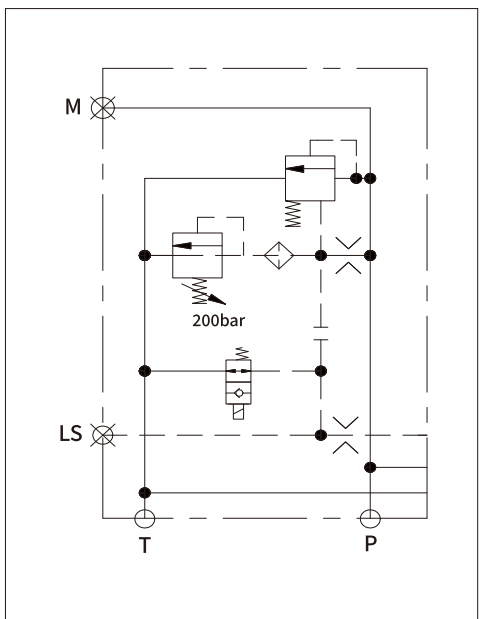


With LS solenoid-operated
unloading valve

Order code

C	E		F		G	H		I	J	K	L	M
J	G06	/	N	—	NNN	200	—	O2	NN	NN	NN	T

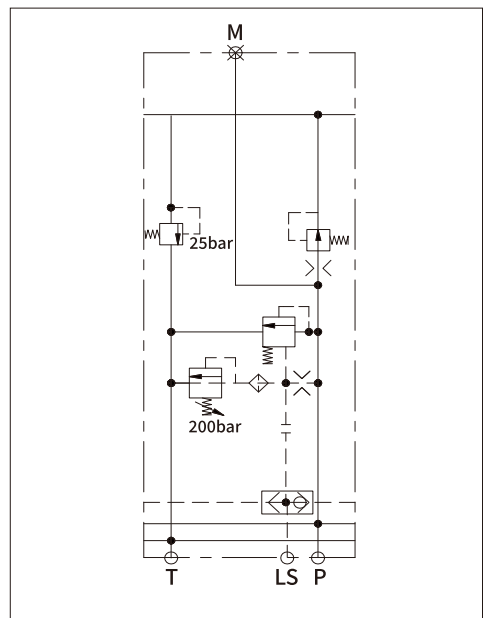
Under no current condition, the LS line is connected to return oil via a line.





> Center inlet section

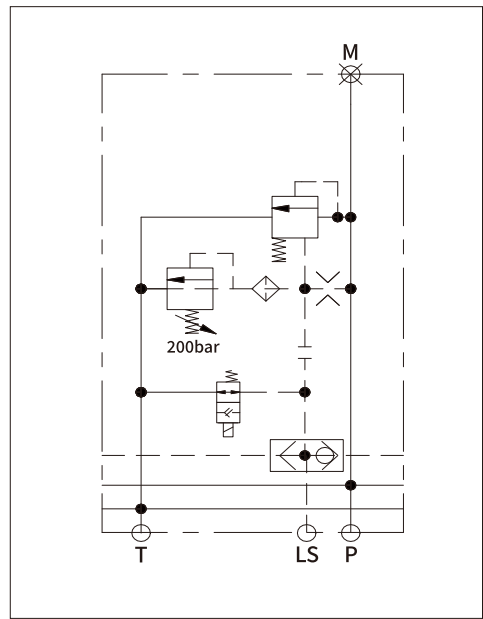
With LS relief valve and internal pilot supply



Order code

C	E		F		G	H		I	J	K	L	M
JZ	G06	/	I	—	NNN	200	—	NN	NN	NN	NN	T

With LS solenoid-operated unloading valve



Order code

C	E		F		G	H		I	J	K	L	M
JZ	G06	/	N	—	NNN	200	—	O2	NN	NN	NN	T

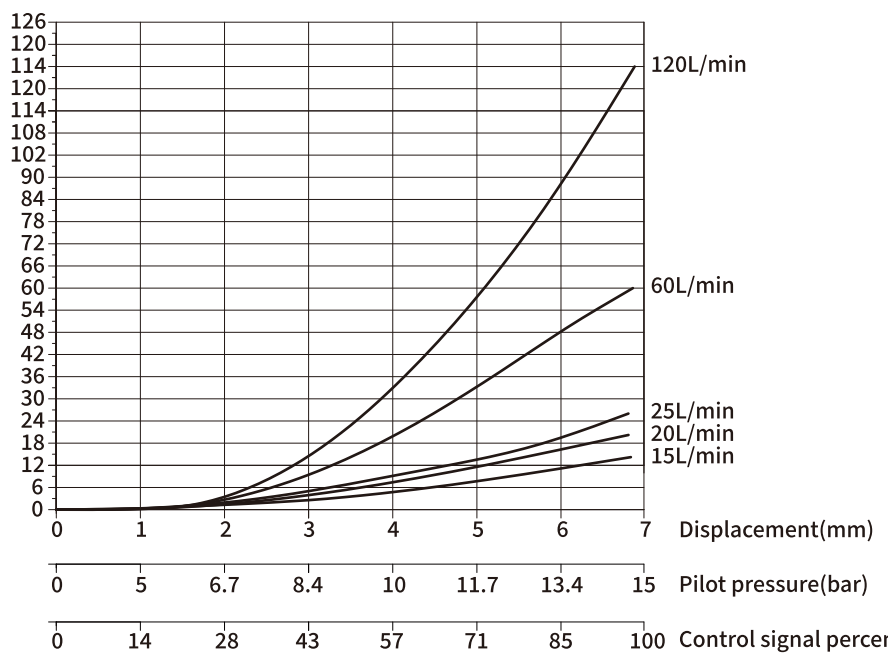
Under no-current conditions, the LS line is connected to tank via a line.



> Control spool

Three-position, four-way closed center E 	Three-position, four-way open center J 	Three-position, four-way throttling open center Q
B-side floating position, closed center W 	A-side floating position, closed center Y 	

> Control signal - flow characteristic curve





> Actuation type

Mechanical M 	Friction positioning MR 	Mechanical floating positioning MF
Hydraulic H 	Electro-hydraulic proportional W2 	Electro-hydraulic proportional type, with pressure measuring ports on both sides W8
Electro-hydraulic proportional with damping orifice and check valve for hydraulic override G2 	Electro-hydraulic on-off type W4 	
Electro-hydraulic on-off type, with damping orifice W5 	Electro-hydraulic on-off type with pressure taps on both sides W6 	Electro-hydraulic on-off type with damping orifices and pressure taps on both sides W7
Electro-hydraulic on-off type with damping orifice and check valve for hydraulic override G4 	With on-board electronics (OBE) 	



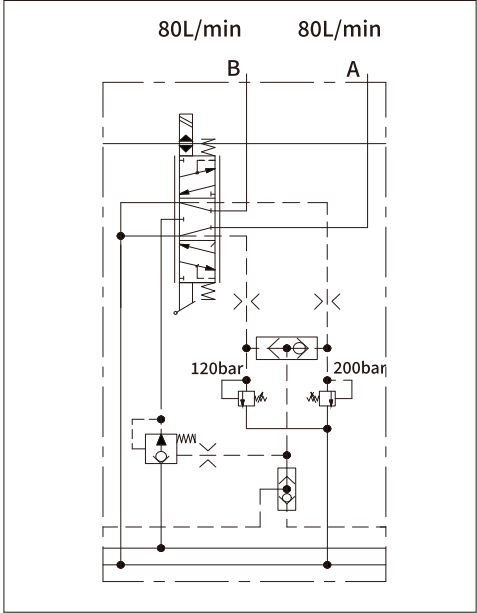
LS relief valve

With LS relief valve

Order code

N	O	Q	R	S	T	U	V	W	X	Y	AA	AB	AC		
S	N	L120	L200	Z	G04	J	080-080-080-080	B	W2	8	—	Z	Z	—	N

Specified pressure in bar for actuator port A (three-digit number)

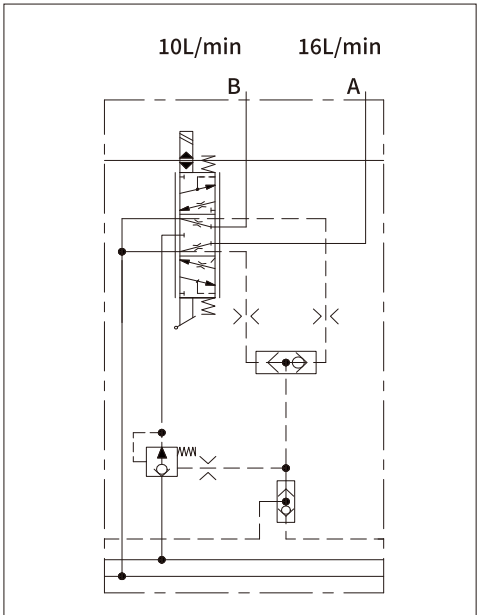


Without LS relief valve

Order code

N	O	Q	R	S	T	U	V	W	X	Y	AA	AB	AC		
S	N	Z	Z	Z	G04	Q	016-016-010-010	B	W2	8	—	Z	Z	—	N

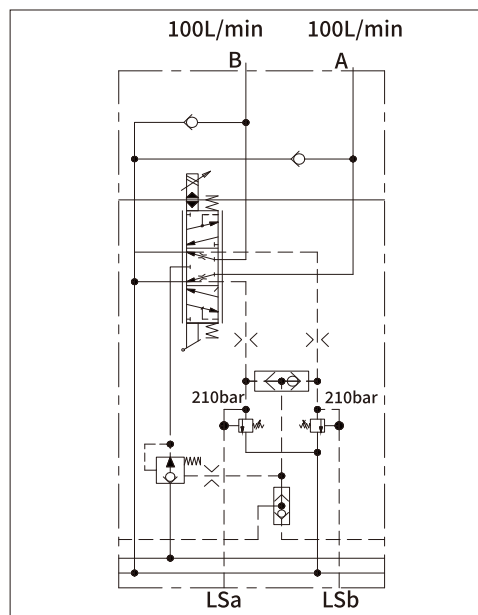
LSRV cannot be retrofitted,
housing without pressure taps





> Secondary relief valve

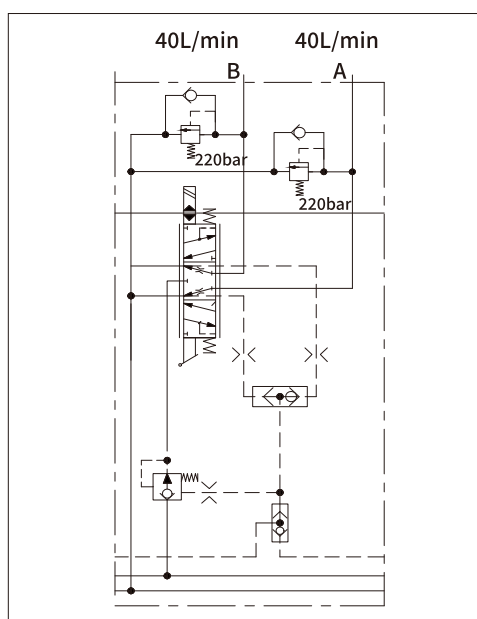
Anti-cavitation check valve



Order code

N	O	Q	R	S	T	U	V	W	X	Y		AA	AB		AC
S	N	L210	L210	M	G04	Q	100-100-100-100	B	W2	8	—	E	E	—	N

Pressure relief valve with anti-cavitation, non-adjustable



Order code

N	O	Q	R	S	T	U	V	W	X	Y	AA	AB	AC		
S	N	Z	Z	Z	G04	Q	040-040-040-040	B	W2	8	—	H220	H220	—	N

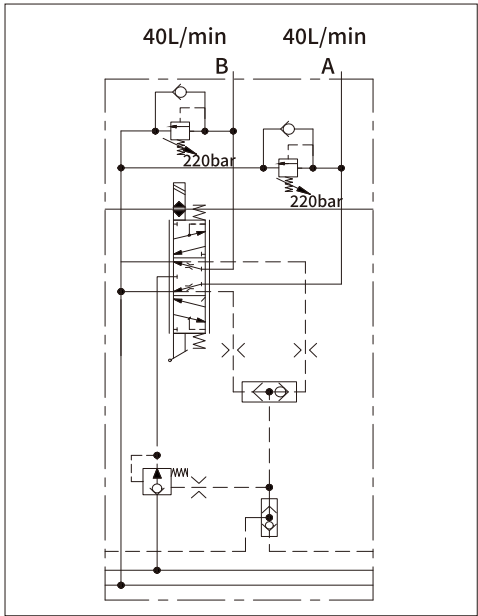
Adjustable relief valve.

The specified pressure in bar (three-digit number) must be indicated after H.



➤ Secondary relief valve

Pressure relief valve with anti-cavitation, adjustable

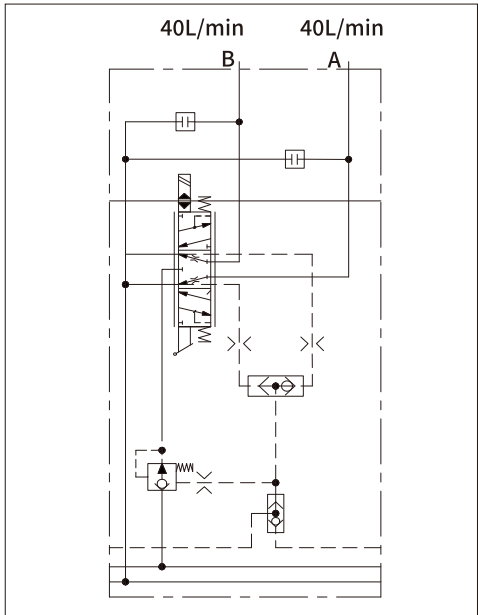


Order code

N	O	Q	R	S	T	U	V			W	X	Y	AA		AB	AC	
S	N	Z	Z	Z	G04	Q	040-040-040-040			B	W2	8	—	A220	A220	—	N

Adjustable cushion valve
The specified pressure in bar (three-digit number) must be indicated after "A"

Without secondary relief valve, plug



Order code

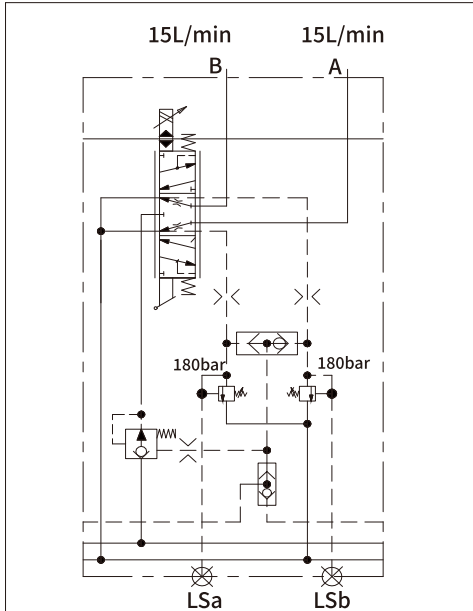
N	O	Q	R	S	T	U	V				W	X	Y	AA		AB	AC	
S	N	Z	Z	Z	G04	Q	040-040-040-040				B	W2	8	—	Q	Q	—	N

Secondary relief valve can be retrofitted



> Secondary relief valve

Without secondary relief valve



Order code

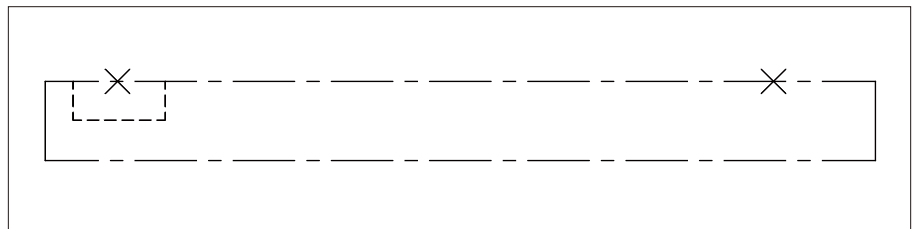
N	O	Q	R	S	T	U	V	W	X	Y	AA	AB	AC		
S	N	L180	L180	M	G04	Q	015-015-015-1015	B	W2	8	—	Z	Z	—	N

Secondary relief valve can not be retrofitted

> End work section

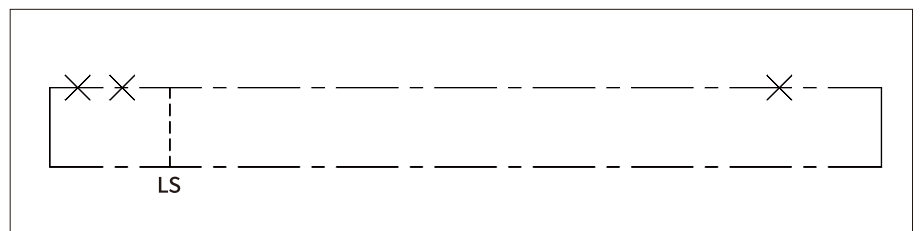
No external LS port,
LS internally connected to T;
Seal: NBR
Order code

AD	AE	AF
LA	P	



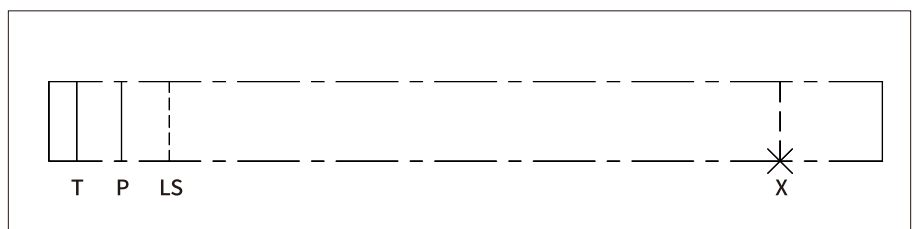
LS with external port,
LS internally not connected to T;
Seal: NBR
Order code

AD	AE	AF
LZ	P	



LS with external port,
LS internally not connected to T;
With additional P and T ports;
Seal: NBR
Order code

AD	AE	AF
LZPT	P	G06





> Size

Line connection

Port			
P	Pump port	LS	Load sensing signal
A/B	Work port	M	Pump side port
a/b	Pilot port	X	Pilot supply
T	Return port	Y	Pilot return

Pipe thread piping connection

G3/8"	BSPP thread (British Standard Pipe Parallel thread)	G03
G1/2"	BSPP thread (British Standard Pipe Parallel thread)	G04
G3/4"	BSPP thread (British Standard Pipe Parallel thread)	G06
G1"	BSPP thread (British Standard Pipe Parallel thread)	G08
UNF3/8"	UNF thread (Unified Fine Thread)	U03
UNF1/2"	BSPP thread and UNF thread (American fine thread)	U04
UNF3/4"	BSPP thread and UNF thread (American fine thread)	U06
UNF1"	BSPP thread and UNF thread (American fine thread)	U08
SAE1/2"	Flange connection	S04
SAE3/4"	Flange connection	S06
SAE1"	Flange connection	S08
M18×1.5	Metric thread, DIN 3852-3 / ISO 6149	M18
M22×1.5	Metric thread, DIN 3852-3 / ISO 6149	M22
Same P and T ports	G3/4, BSPP thread (British Standard Pipe Parallel thread)	G06
	G1/2, BSPP thread (British Standard Pipe Parallel thread)	G04
Different P and T ports	Port P: G3/8, BSPP thread; Port T: G1/2, BSPP thread	G03G04
	Port P: G1/2, BSPP thread; Port T: G3/4, BSPP thread	G04G06

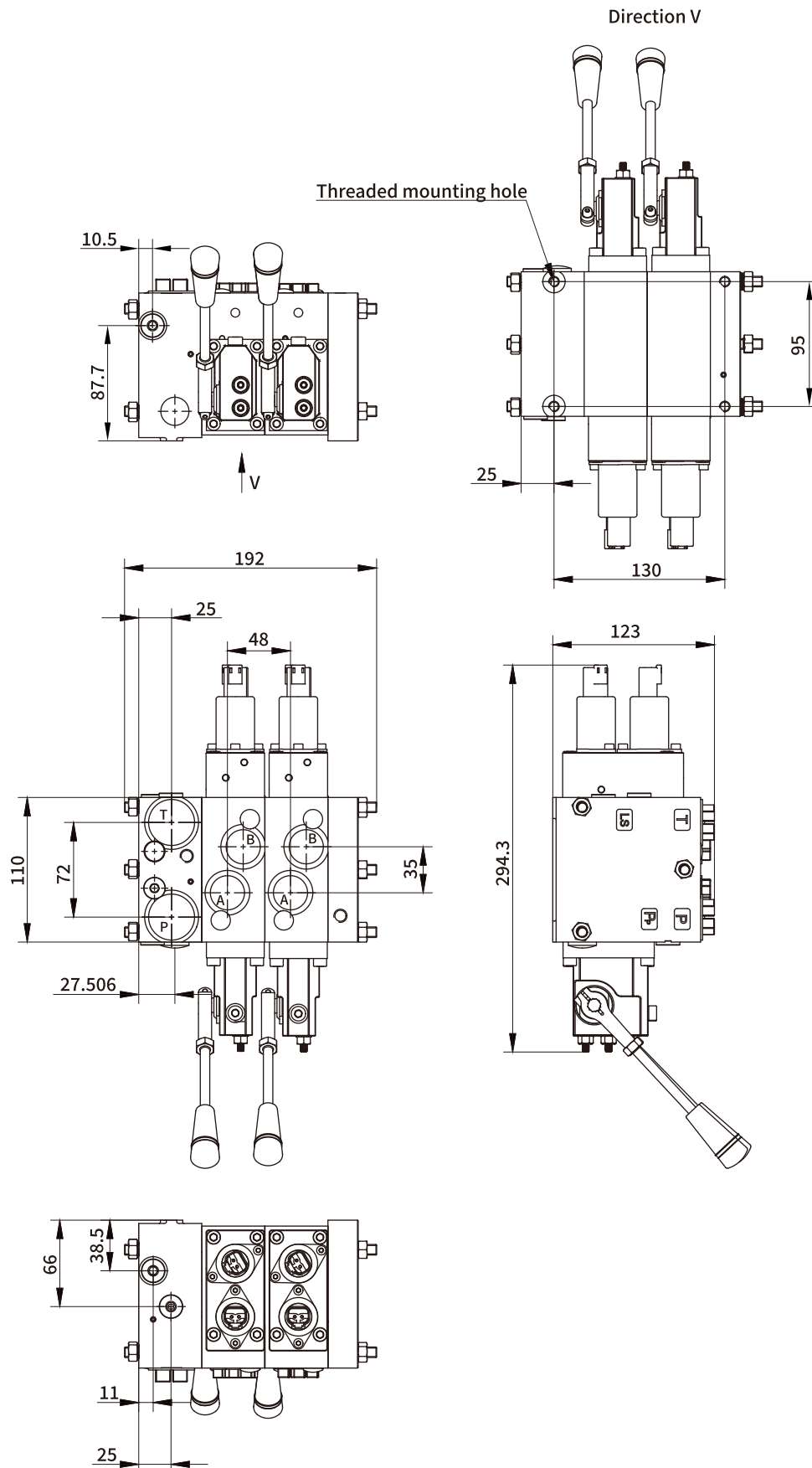
Mounting bolt M10, in accordance with EN ISO 4762 or EN ISO 4014:

Performance grade	10.9
Tightening torque	60



► Mounting connection dimensions

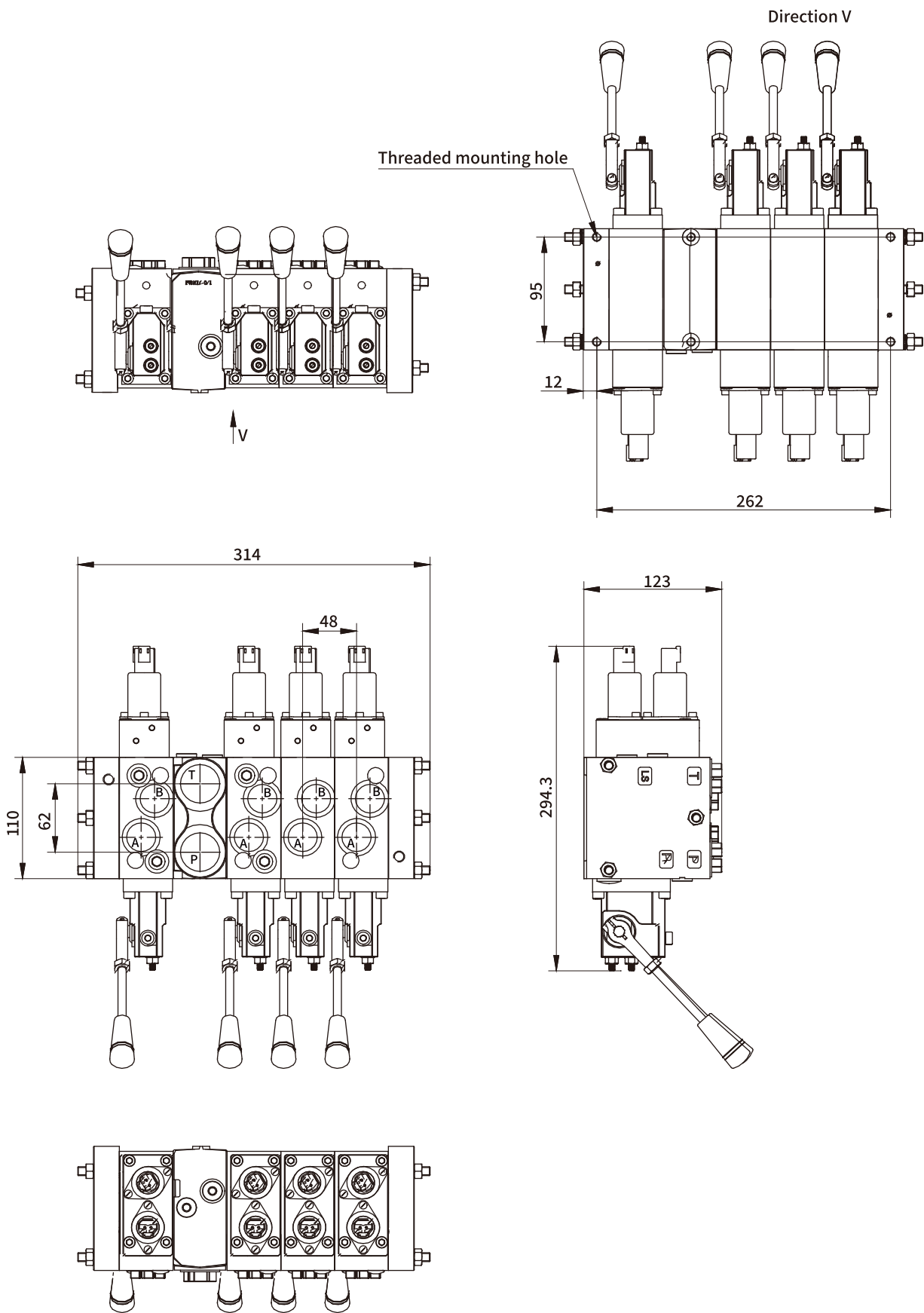
Open center with side inlet section (see ordering example)





➤ Mounting connection dimensions

Closed center type with intermediate inlet section (see ordering example)





> Accessories (to be ordered separately)

Cable	Order code	Type	Description	Length
	Consult sales personnel	Cable	With on-board electronics (OBE) for bus control (CC, CX)	Customized according to the number of working sections
Connector and Connector kit				
	Consult sales personnel	Connector	For electro-hydraulic proportional and on-off control (W*, G*)	
	Consult sales personnel	Connector	For on-board electronics (OBE) for analog control (EA, EH)	









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HYTEK-REV1.0 07/2026

If there are any other modifications, no further notice will be given.