

PV-3 Series

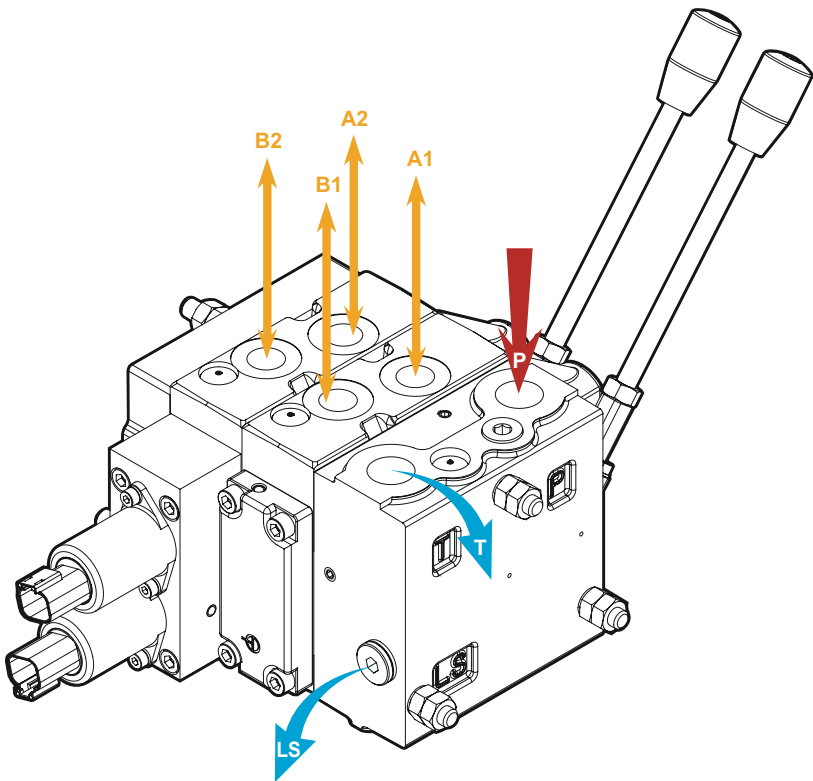
Proportional Valves
For Mobile and Industrial Hydraulic applications
Max. flow: 140 l/min
Max. pressure: 350 bar



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Specification

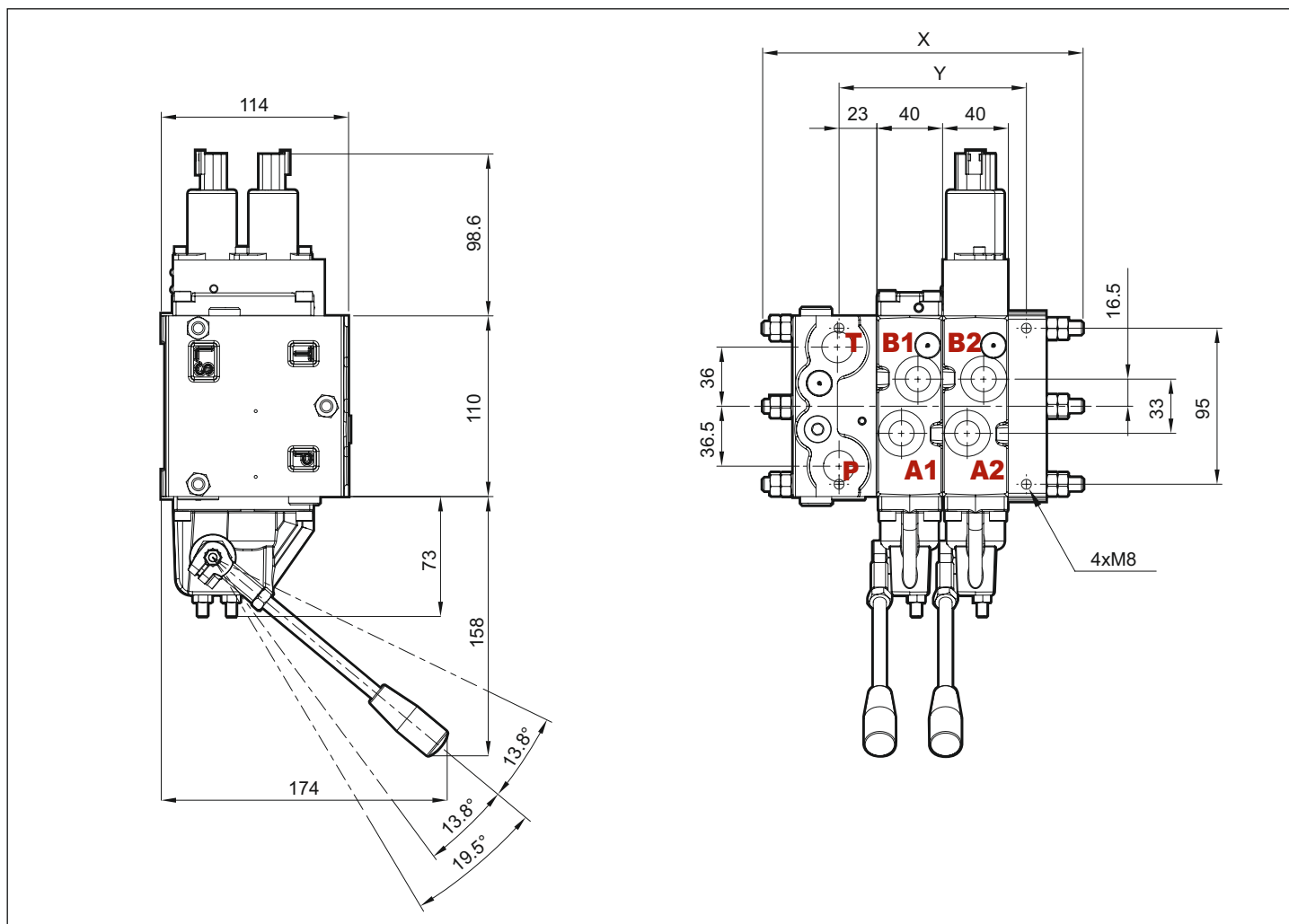


Oil Flow rated	P	140 L/min
Max. pressure	P	350 bar
	A/B	350 bar
	T	40 bar
Max. Internal leakage (Pressure 100 Bar Oil temperature 50°C)	A/B	18 cm ³ /min
Oil temperature		from -20°C~90°C
Oil viscosity	Operating range	from 15 mm ² /s ~ 75 mm ² /s
	Min.	12 mm ² /s
	Max.	400 mm ² /s
Ambient temperature range		from -30°C~60°C
Max. contamination		23/19/16 (ISO 4406)
Filtration		10 μm

All specifications, dimensions and design characteristics shown in this catalogue are subject to change without notice.



Unit Dimensions



Standard Threads

Port	Inlet P	A and B ports	Outlet T
BSP	G1/2, G3/4	G3/8	G3/4
UN-UNF	7/8-14 UNF (SAE10), 1" 1/16-12 UN (SAE12)	3/4-16 UNF (SAE8)	1" 1/16-12UN (SAE12)

G3/8: G3, G1/2: G4, G3/4: G6
SAE8: E8, SAE10: E10, SAE12: E12

Standard Dimensions

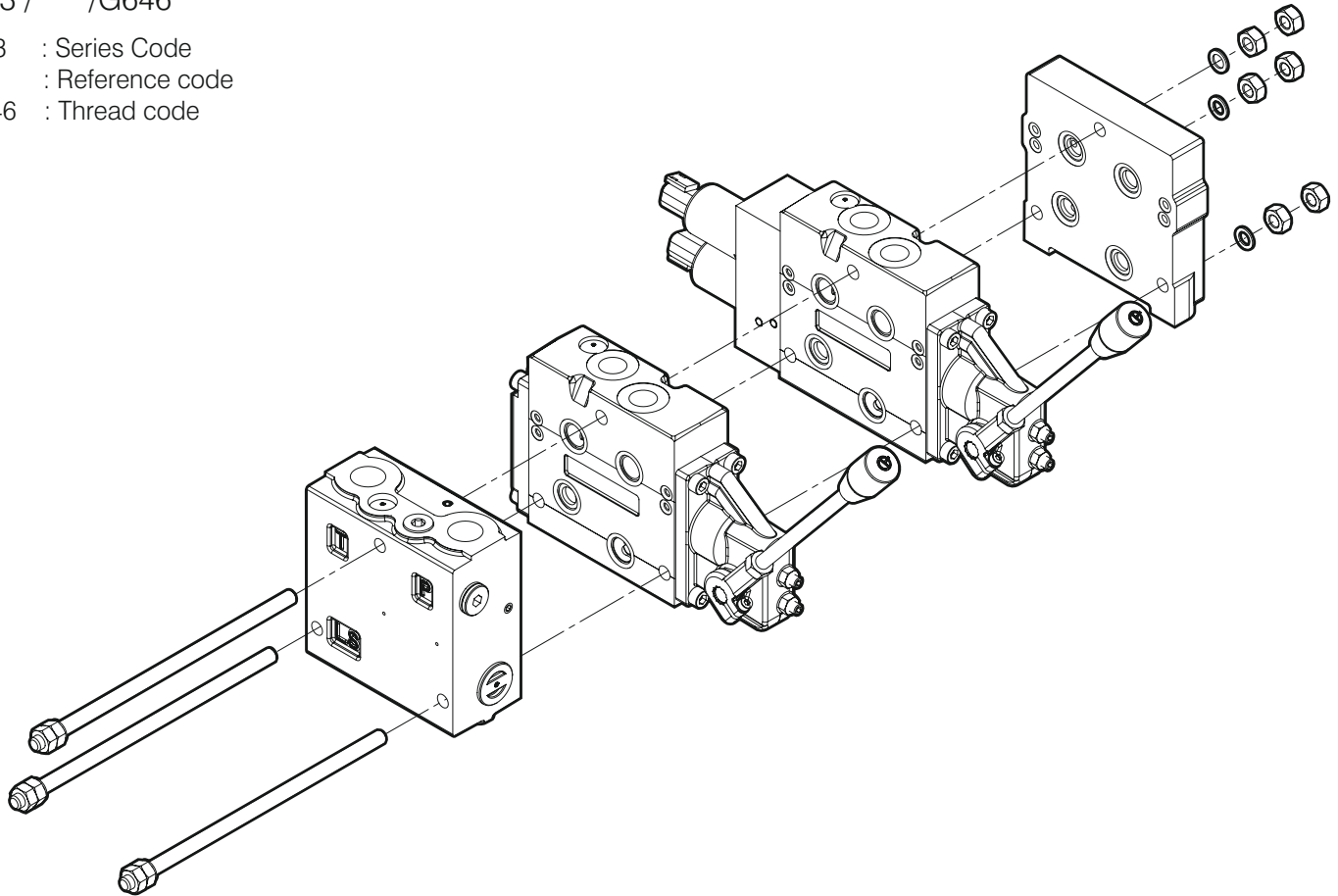
Type	X mm	Y mm
Pv3 /1S	155	74
PV3/2S	195	114
PV3/3S	235	154
PV3/4S	275	194
PV3/5S	315	234
PV3/6S	355	274
PV3/7S	395	314
PV3/8S	435	354
PV3/9S	475	394
PV3/10S	515	434
PV3/11S	555	474
PV3/12S	595	514



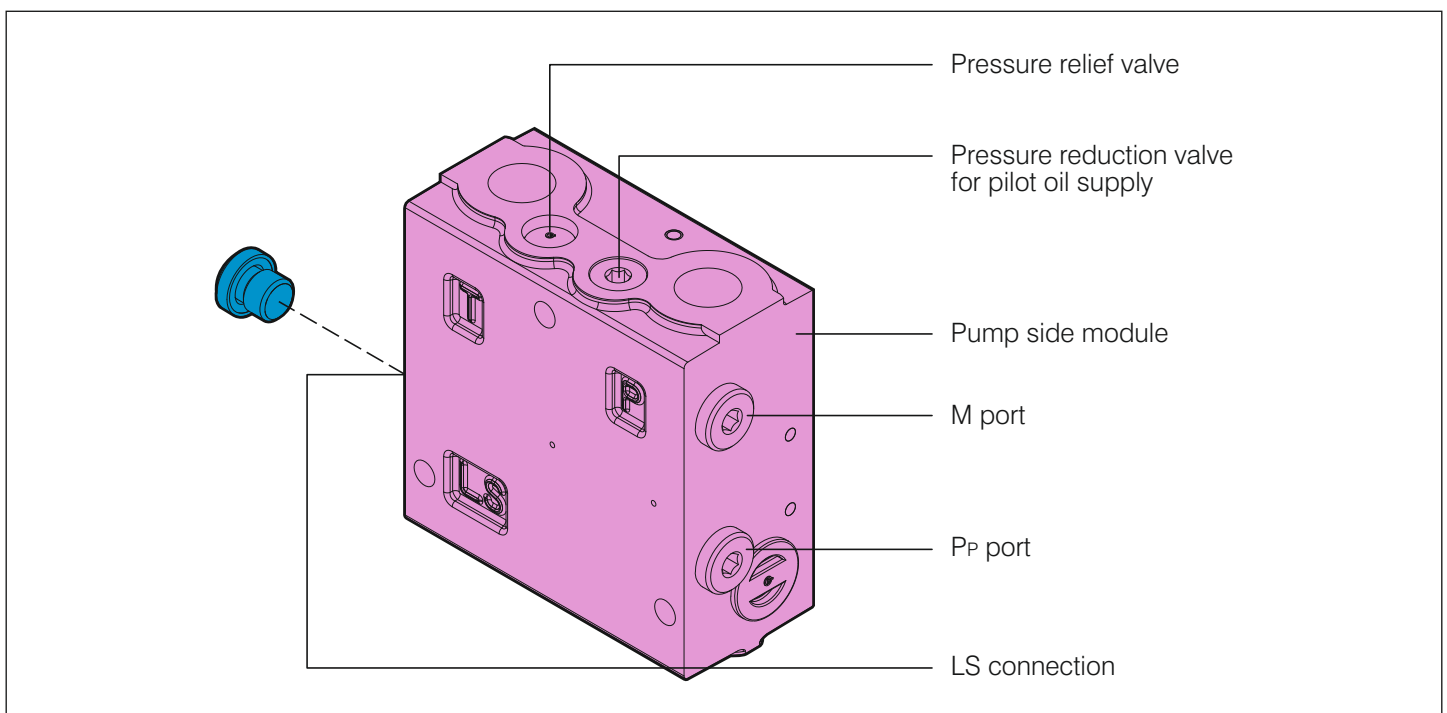
Ordering code & Assembled valve

- PV-3 / ***/G646

PV-3 : Series Code
 *** : Reference code
 G646 : Thread code



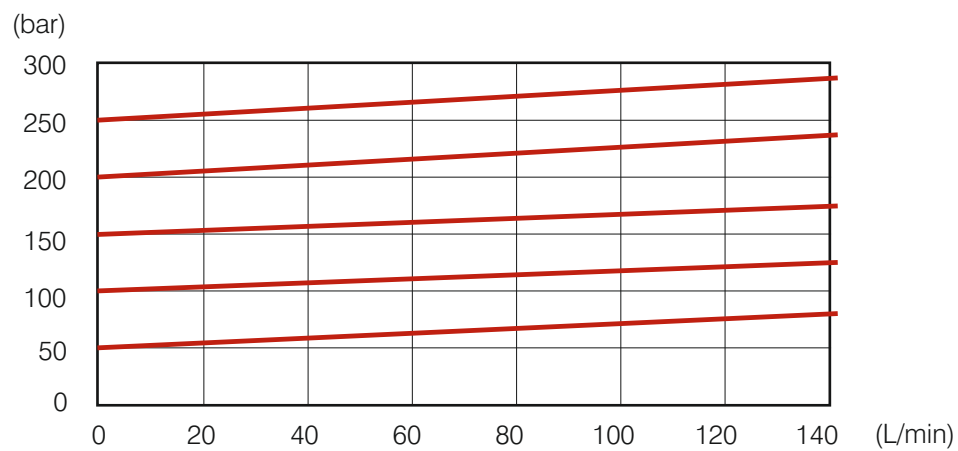
Pump Side Module





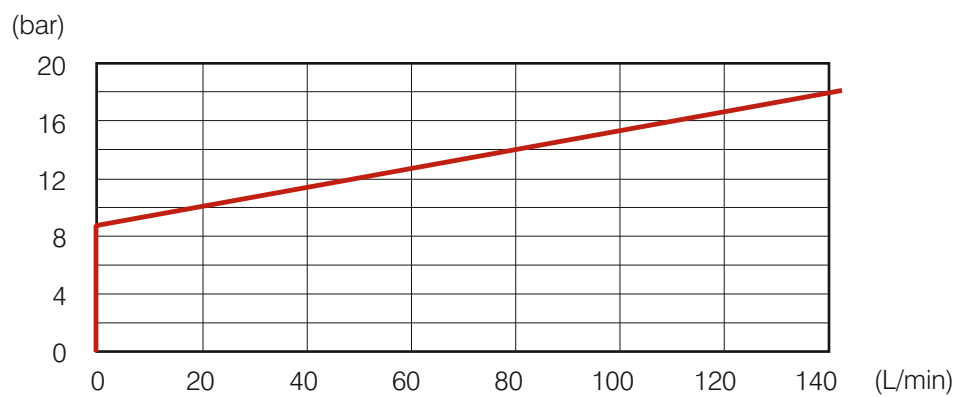
Parameters Analysis

- **Pressure relief Valve Characteristic**



Initial Data

Pressure Flow Characteristics



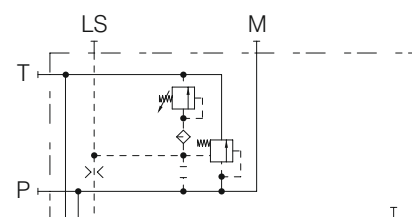


Pump Side Module Options

PV4P0101

For mechanically actuated valves
open center pump side module for
pumps with fixed displacement.

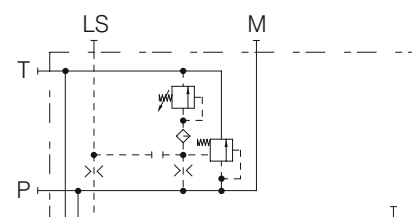
PV4P0101-G4	P port: G1/2
PV4P0101-E10	P port: 7/8-14UNF
PV4P0101-G6	P port: G3/4
PV4P0101-E12	P port: 1-1/16UN



PV4P0201

For mechanically actuated valves.
Closed center pump side module for
pumps with variable displacement.

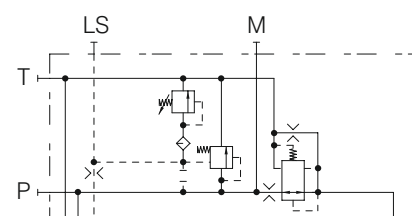
PV4P0201-G4	P port: G1/2
PV4P0201-E10	P port: 7/8-14UNF
PV4P0201-G6	P port: G3/4
PV4P0201-E12	P port: 1-1/16UN



PV4P0102

With pilot oil supply for electrically
actuated valves.
open center pump side module for
pumps with fixed displacement.

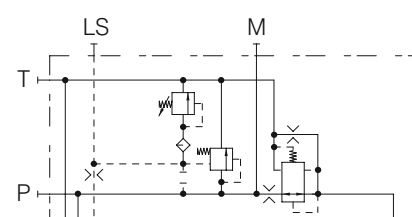
PV4P0102-G4	P port: G1/2
PV4P0102-E10	P port: 7/8-14UNF
PV4P0102-G6	P port: G3/4
PV4P0102-E12	P port: 1-1/16UN



PV4P0102h

With pilot oil supply for 3ePVe
electrically actuated valves.
open center pump side module for
pumps with fixed displacement.

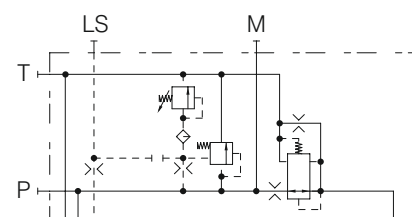
PV4P0102H-G4	P port: G1/2
PV4P0102H-E10	P port: 7/8-14UNF
PV4P0102H-G6	P port: G3/4
PV4P0102H-E12	P port: 1-1/16UN



PV4P0202

With pilot oil supply for electrically
actuated valves.
Closed center pump side module for
pumps with variable displacement.

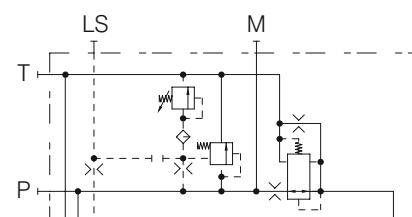
PV4P0202-G4	P port: G1/2
PV4P0202-E10	P port: 7/8-14UNF
PV4P0202-G6	P port: G3/4
PV4P0202-E12	P port: 1-1/16UN



PV4P0202h

With pilot oil supply for 3ePVe
electrically actuated valves.
Closed center pump side module for
pumps with variable displacement.

PV4P0202H-G4	P port: G1/2
PV4P0202H-E10	P port: 7/8-14UNF
PV4P0202H-G6	P port: G3/4
PV4P0202H-E12	P port: 1-1/16UN



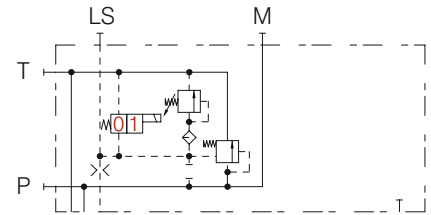


Pump Side Module Options

PV4P0103

For mechanically actuated valves.
Connection for LS unloading valves.
open center pump side module for pumps with fixed displacement.

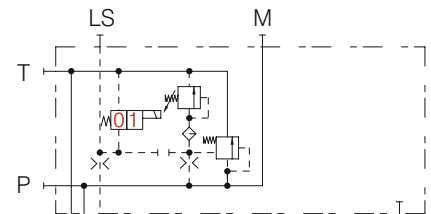
PV4P0103-G4	P port: G1/2
PV4P0103-E10	P port: 7/8-14UNF
PV4P0103-G6	P port: G3/4
PV4P0103-E12	P port: 1-1/16UN



PV4P0203

For mechanically actuated valves.
Connection for LS unloading valves.
Closed center pump side module for pumps with variable displacement.

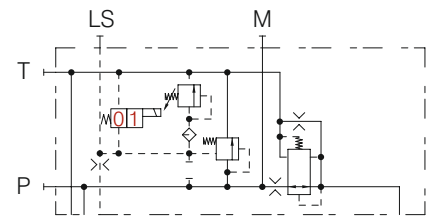
PV4P0203-G4	P port: G1/2
PV4P0203-E10	P port: 7/8-14UNF
PV4P0203-G6	P port: G3/4
PV4P0203-E12	P port: 1-1/16UN



PV4P0104

Connection for electrical LS unloading valves.
open center pump side module for pumps with fixed displacement. With pilot oil supply for electrically actuated valves.

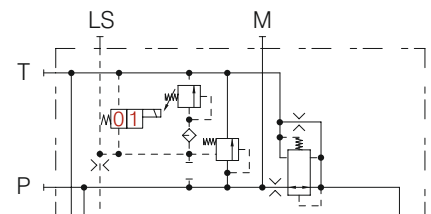
PV4P0104-G4	P port: G1/2
PV4P0104-E10	P port: 7/8-14UNF
PV4P0104-G6	P port: G3/4
PV4P0104-E12	P port: 1-1/16UN



PV4P0104h

Connection for electrical LS unloading valves.
open center pump side module for pumps with fixed displacement. With pilot oil supply for 3ePVe electrically actuated valves.

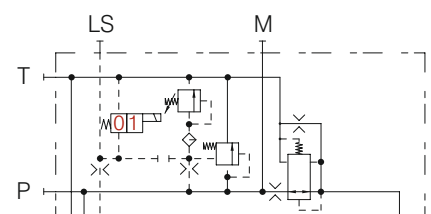
PV4P0104H-G4	P port: G1/2
PV4P0104H-E10	P port: 7/8-14UNF
PV4P0104H-G6	P port: G3/4
PV4P0104H-E12	P port: 1-1/16UN



PV4P0204

Connection for electrical LS unloading valves.
Closed center pump side module for pumps with variable displacement. With pilot oil supply for electrically actuated valves.

PV4P0204-G4	P port: G1/2
PV4P0204-E10	P port: 7/8-14UNF
PV4P0204-G6	P port: G3/4
PV4P0204-E12	P port: 1-1/16UN





Pump Side Module Options

PV4P0204h

Connection for electrical LS unloading valves.

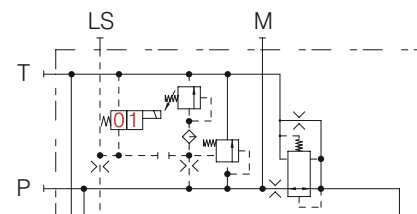
Closed center pump side module for pumps with variable displacement. With pilot oil supply for 3ePVe electrically actuated valves.

PV4P0204H-G4 P port: G1/2

PV4P0204H-E10 P port: 7/8-14UNF

PV4P0204H-G6 P port: G3/4

PV4P0204H-E12 P port: 1-1/16UN



PV4P0105

With pilot oil supply for electrically actuated and connection for pilot oil pressure.

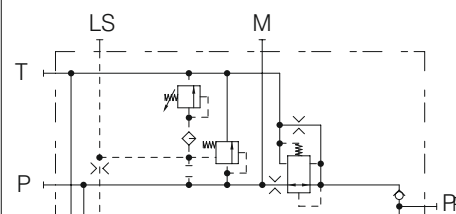
open center pump side module for pumps with fixed displacement.

PV4P0105-G4 P port: G1/2

PV4P0105-E10 P port: 7/8-14UNF

PV4P0105-G6 P port: G3/4

PV4P0105-E12 P port: 1-1/16UN



PV4P0105h

With pilot oil supply for 3ePVe electrically actuated and connection for pilot oil pressure.

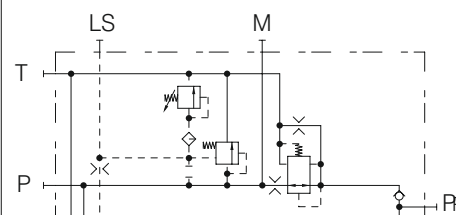
open center pump side module for pumps with fixed displacement.

PV4P0105H-G4 P port: G1/2

PV4P0105H-E10 P port: 7/8-14UNF

PV4P0105H-G6 P port: G3/4

PV4P0105H-E12 P port: 1-1/16UN



PV4P0205

With pilot oil supply for electrically actuated and connection for pilot oil pressure.

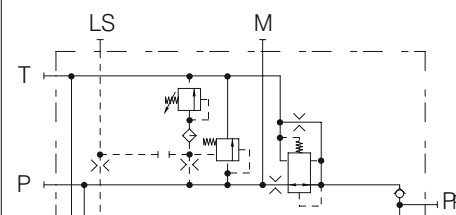
Closed center pump side module for pumps with variable displacement.

PV4P0205-G4 P port: G1/2

PV4P0205-E10 P port: 7/8-14UNF

PV4P0205-G6 P port: G3/4

PV4P0205-E12 P port: 1-1/16UN



PV4P0205h

With pilot oil supply for 3ePVe electrically actuated and connection for pilot oil pressure.

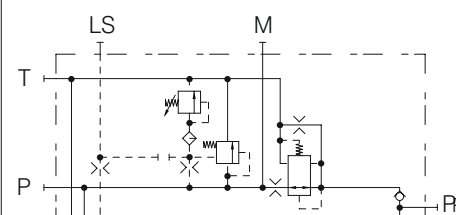
Closed center pump side module for pumps with variable displacement.

PV4P0205H-G4 P port: G1/2

PV4P0205H-E10 P port: 7/8-14UNF

PV4P0205H-G6 P port: G3/4

PV4P0205H-E12 P port: 1-1/16UN





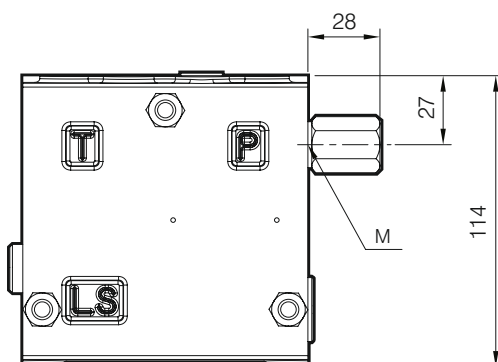
Pump Side Module Options

PV4P0106h		
With pilot oil supply for hydraulic actuated and connection for pilot oil pressure. open center pump side module for pumps with fixed displacement. Can connection with hydraulic pilot linear operation type JhP.	PV4P0106H-G4 P port: G1/2	
	PV4P0106H-E10 P port: 7/8-14UNF	
	PV4P0106H-G6 P port: G3/4	
	PV4P0106H-E12 P port: 1-1/16UN	
PV4P0206h		
With pilot oil supply for hydraulic actuated and connection for pilot oil pressure. Closed center pump side module for pumps with variable displacement. Can connection with hydraulic pilot linear operation type JhP.	PV4P0206H-G4 P port: G1/2	
	PV4P0206H-E10 P port: 7/8-14UNF	
	PV4P0206H-G6 P port: G3/4	
	PV4P0206H-E12 P port: 1-1/16UN	



Plug For External Pilot Oil Supply

Dimensions



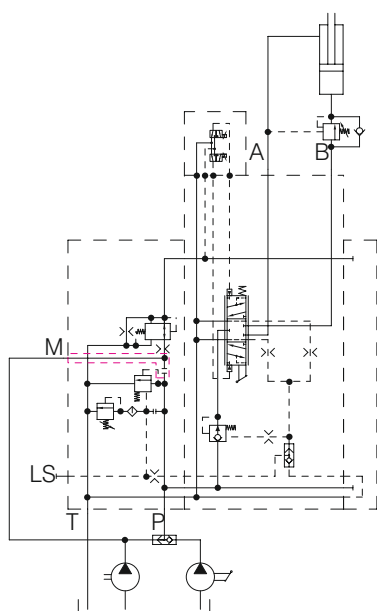
Code	Symbol
PV4-POG Thread Code : G1/4	Plug for external pilot oil supply, it's suitable for fixed displacement or variable displacement.
PV4-POE Thread Code : 1/2-20 UNF	
Code	Symbol
PV4-PCG Thread Code : G1/4	Plug for external pilot oil supply with check valve. It's suitable for fixed displacement.
PV4-PCE Thread Code : 1/2-20 UNF	

Application Circuit

PV4-PO

Used when a manual emergency pump is required.

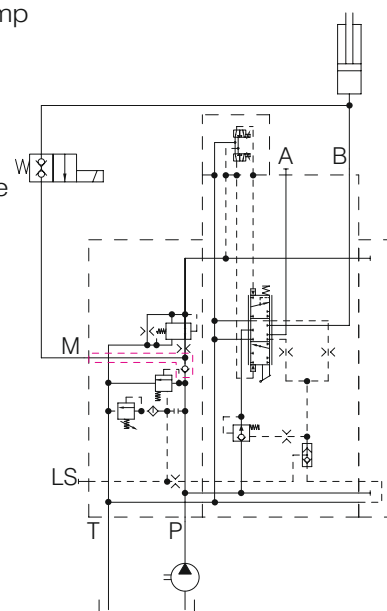
When main pump failure, using manual emergency pump with PV handle.



PV4-PC

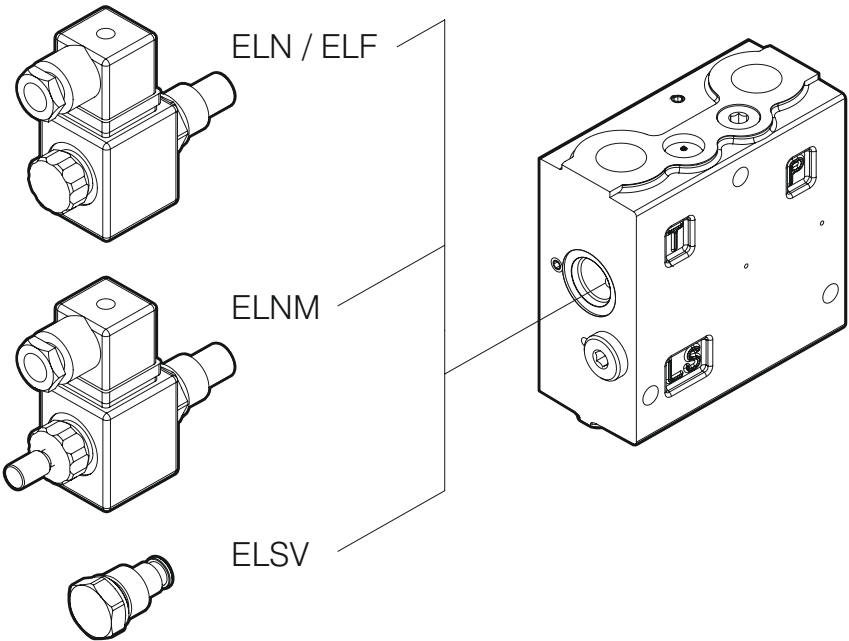
Without using the pump flow to control the solenoid valve.

Used the hydraulic pressure drop to provide solenoid valve oil source.





LS Solenoid Unloading Valve

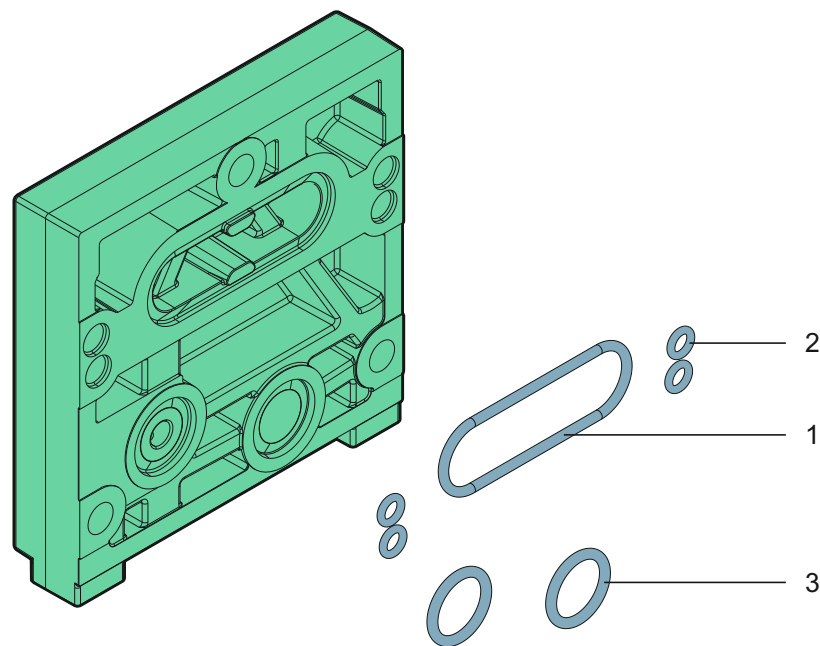


Dimension	Code	Symbol
	PV4-ELN12 Rated Voltage : 12VDC	
	PV4-ELN24 Rated Voltage : 24VDC	
	PV4-ELF12 Rated Voltage : 12VDC	
	PV4-ELF24 Rated Voltage : 24VDC	
	PV4-ELNM12 Rated Voltage : 12VDC	
	PV4-ELNM24 Rated Voltage : 24VDC	
	PV4-ELSV	

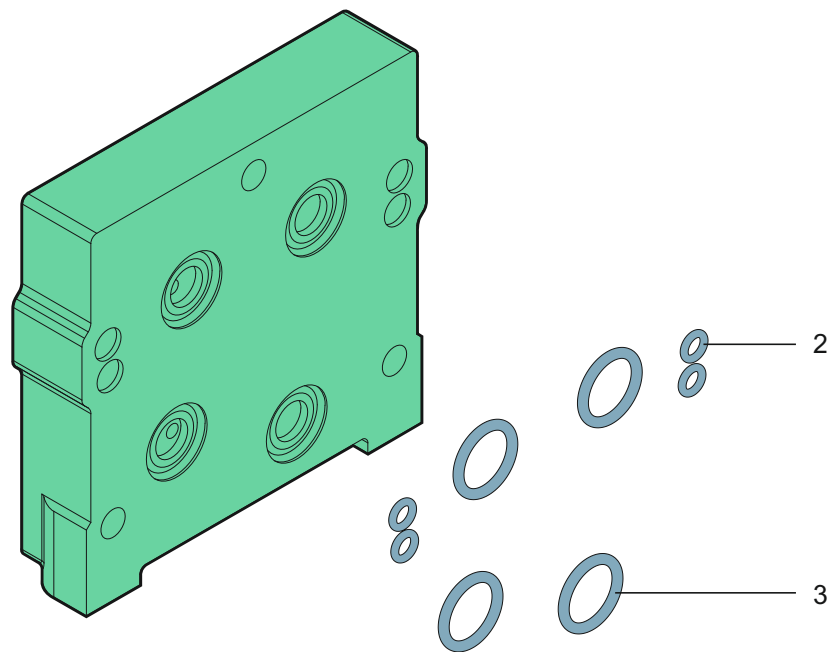


End Plate

Aluminum Casting



Iron Casting



item	Code	Aluminum Casting	Iron Casting
1	PV-ORN-001	1	
2	OR-00502	4	4
3	AS114	2	4



End Plate Options

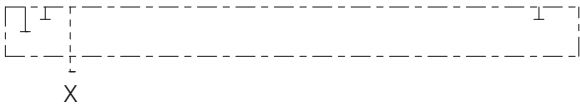
PV4C0101

Aluminum Casting, No connection.
Max. pressure: 300 bar (4351 psi).



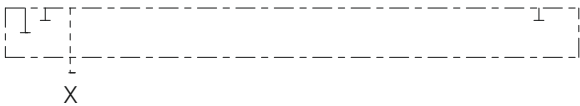
PV4C0102

Aluminum casting, LS G1/8 X port for external connection.
Max. pressure: 250 bar (3625 psi).



PV4C0103

Aluminum casting, LS 3/8-24 UNF X port for external connection
Max. pressure: 250 bar (3625 psi).



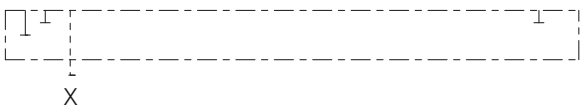
PV4C0201

Iron casting, No external connection.
Max. pressure: 350 bar (5075 psi).



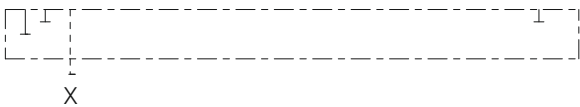
PV4C0202

Iron casting, LS G1/4 X port for external connection.
Max. pressure: 350 bar (5075 psi).



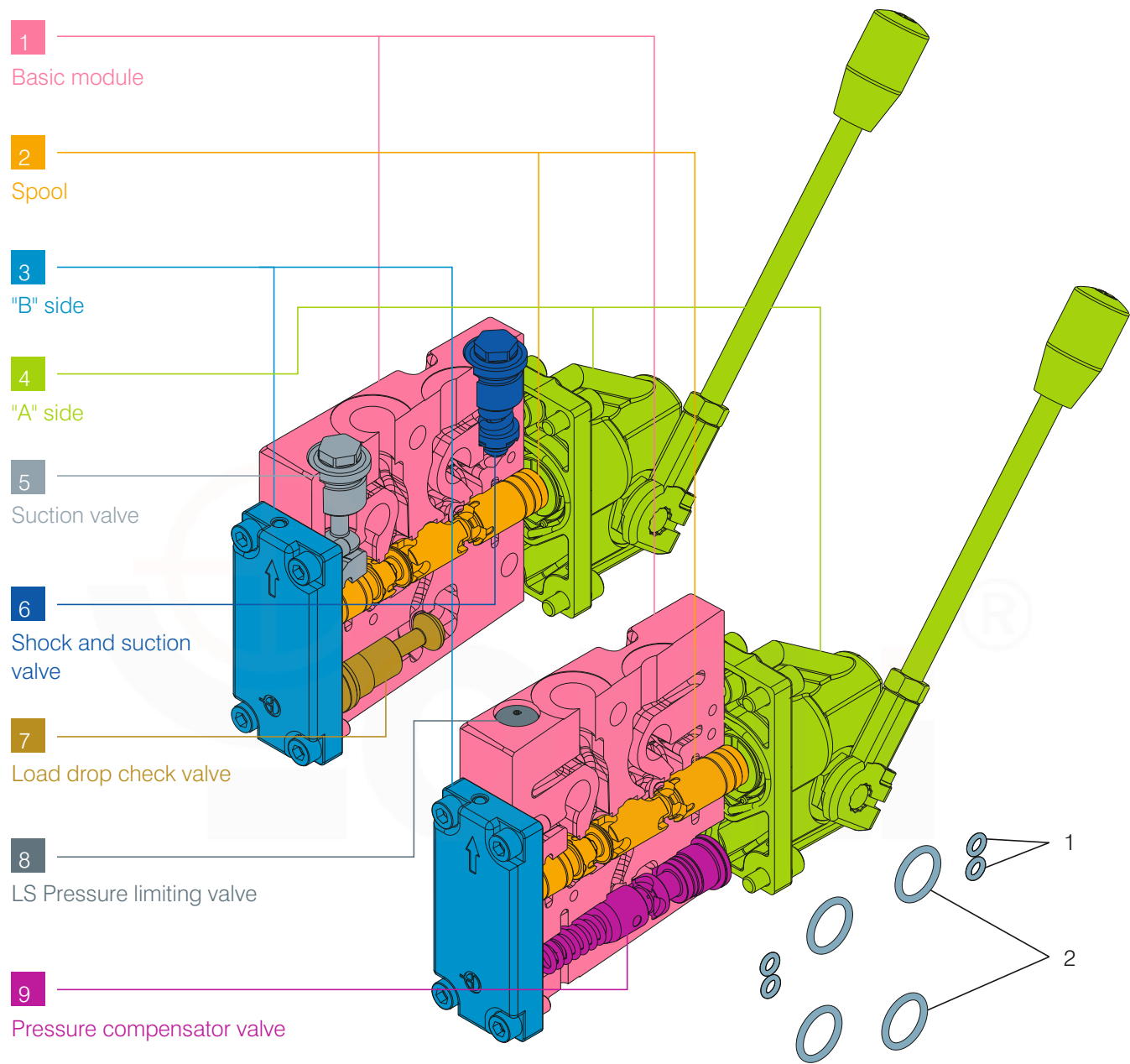
PV4C0203

Iron casting, LS 1/2-20 UNF X port for external connection.
Max. pressure: 350 bar (5075 psi).





Basic Module



Seal For Basic Module

Item	Code	Q'Ty
1	OR-00502	4
2	P16	4

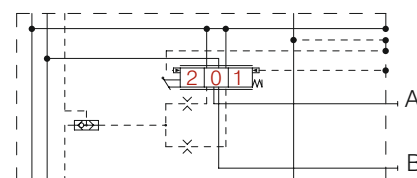


Basic Module Options

PV3V01

Without load drop check valve and pressure compensated valve.

PV3V01-G3 AB port: G3/8
PV3V01-E8 AB port: 3/4-16UNF

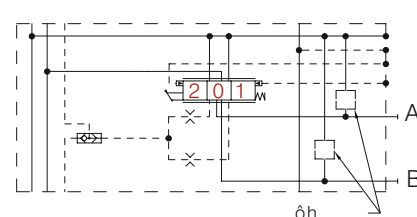


PV3V01u

With ports for suction valve or shock and suction valve.

Without load drop check valve and pressure compensated valve.

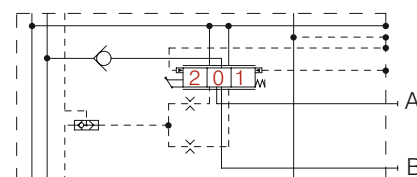
PV3V01U-G3 AB port: G3/8
PV3V01U-E8 AB port: 3/4-16UNF



PV3V02

With load drop check valve.

PV3V02-G3 AB port: G3/8
PV3V02-E8 AB port: 3/4-16UNF

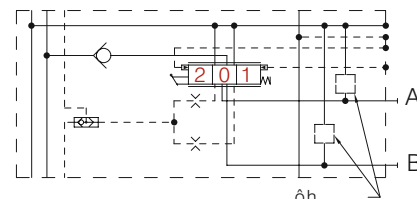


PV3V02u

With ports for suction valve or shock and suction valve.

With load drop check valve.

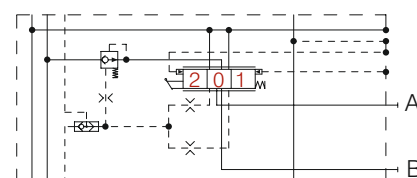
PV3V02U-G3 AB port: G3/8
PV3V02U-E8 AB port: 3/4-16UNF



PV3V03

With pressure compensated valve.

PV3V03-G3 AB port: G3/8
PV3V03-E8 AB port: 3/4-16UNF

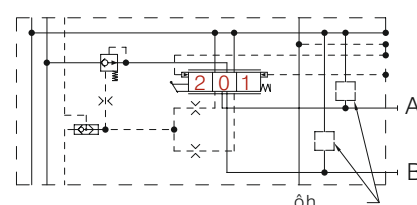


PV3V03u

With ports for suction valve or shock and suction valve

With pressure compensated valve.

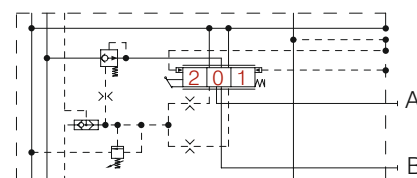
PV3V03U-G3 AB port: G3/8
PV3V03U-E8 AB port: 3/4-16UNF



PV3V04

With pressure compensated valve, and adjustable LS pressure limiting valve.

PV3V04-G3 AB port: G3/8
PV3V04-E8 AB port: 3/4-16UNF





Basic Module Options

PV3V01

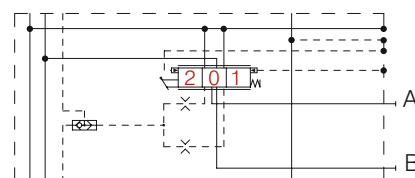
Without load drop check valve and pressure compensated valve.

PV3V01-G3

AB port: G3/8

PV3V01-E8

AB port: 3/4-16UNF



PV3V01u

With ports for suction valve or shock and suction valve.

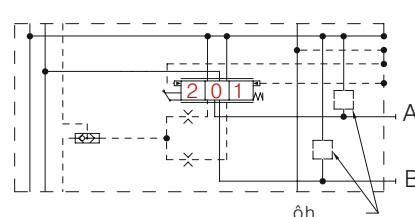
Without load drop check valve and pressure compensated valve.

PV3V01U-G3

AB port: G3/8

PV3V01U-E8

AB port: 3/4-16UNF



PV3V02

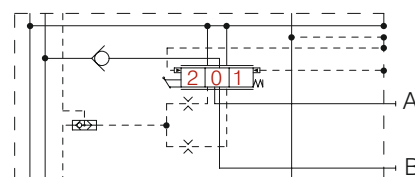
With load drop check valve.

PV3V02-G3

AB port: G3/8

PV3V02-E8

AB port: 3/4-16UNF



PV3V02u

With ports for suction valve or shock and suction valve.

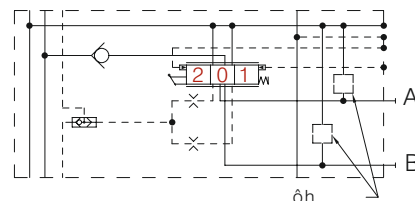
With load drop check valve.

PV3V02U-G3

AB port: G3/8

PV3V02U-E8

AB port: 3/4-16UNF



PV3V03

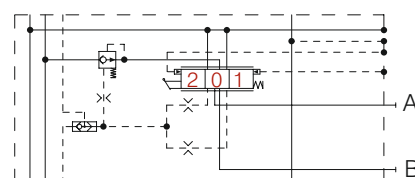
With pressure compensated valve.

PV3V03-G3

AB port: G3/8

PV3V03-E8

AB port: 3/4-16UNF



PV3V03u

With ports for suction valve or shock and suction valve

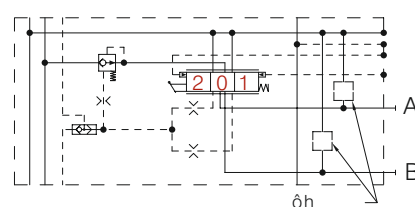
With pressure compensated valve.

PV3V03U-G3

AB port: G3/8

PV3V03U-E8

AB port: 3/4-16UNF



PV3V04

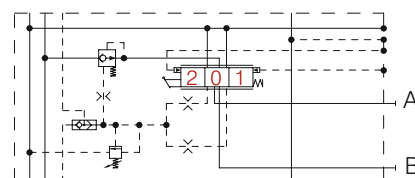
With pressure compensated valve, and adjustable LS pressure limiting valve.

PV3V04-G3

AB port: G3/8

PV3V04-E8

AB port: 3/4-16UNF





Flow Control Spools

YLWPV32 01 ***

01 Spool circuit

*** Spool flow

HA Hydraulic actuation

EP Proportional pressure
reducing actuation

YLWPV32 01 *****

3 1 0 2 BA T P T	3 1 0 2 BA T P T	3 1 0 2 BA T P T	3 1 0 2 BA T P T
A & B → T P Closed	P → B A → T	P & T & A & B Closed	P → A B → T

Flow	5 (L/min)	10 (L/min)	25 (L/min)	40 (L/min)	65 (L/min)
Code	YLWPV3201005	YLWPV3201010	YLWPV3201025	YLWPV3201040	YLWPV3201065
	YLWPV3201005HA	YLWPV3201010HA	YLWPV3201025HA	YLWPV3201040HA	YLWPV3201065HA
	YLWPV3201005EP	YLWPV3201010EP	YLWPV3201025EP	YLWPV3201040EP	YLWPV3201065EP

YLWPV32 02 ***

01 Spool circuit

Spool flow

HA Hydraulic actuation

EP Proportional pressure
reducing actuation

YLWPV32 02 *****

3 1 0 2 BA T P T	3 1 0 2 BA T P T	3 1 0 2 BA T P T	3 1 0 2 BA T P T
A & B → T P Closed	P → B A → T	A & B → T P Closed	P → A B → T

Flow	5 (L/min)	10 (L/min)	25 (L/min)	40 (L/min)	65 (L/min)
Code	YLWPV3202005	YLWPV3202010	YLWPV3202025	YLWPV3202040	YLWPV3202065
	YLWPV3202005HA	YLWPV3202010HA	YLWPV3202025HA	YLWPV3202040HA	YLWPV3202065HA
	YLWPV3202005EP	YLWPV3202010EP	YLWPV3202025EP	YLWPV3202040EP	YLWPV3202065EP



Linear Flow Control Spools

YLWPV32 L1 ***

L1 Spool circuit

*** Spool flow

HA Hydraulic actuation

EP Proportional pressure
reducing actuation

YLWPV32 L1 *****

3 1 0 2 BA T P T	3 1 0 2 BA T P T	3 1 0 2 BA T P T	3 1 0 2 BA T P T
A & B → T P Closed	P → B A → T	P & T & A & B Closed	P → A B → T

Flow	25 (L/min)	40 (L/min)	65 (L/min)
Code	YLWPV32L1025	YLWPV32L1040	YLWPV32L1065
	YLWPV32L1025HA	YLWPV32L1040HA	YLWPV32L1065HA
	YLWPV32L1025EP	YLWPV32L1040EP	YLWPV32L1065EP

YLWPV32 L2 ***

L2 Spool circuit

*** Spool flow

HA Hydraulic actuation

EP Proportional pressure
reducing actuation

YLWPV32 L2 *****

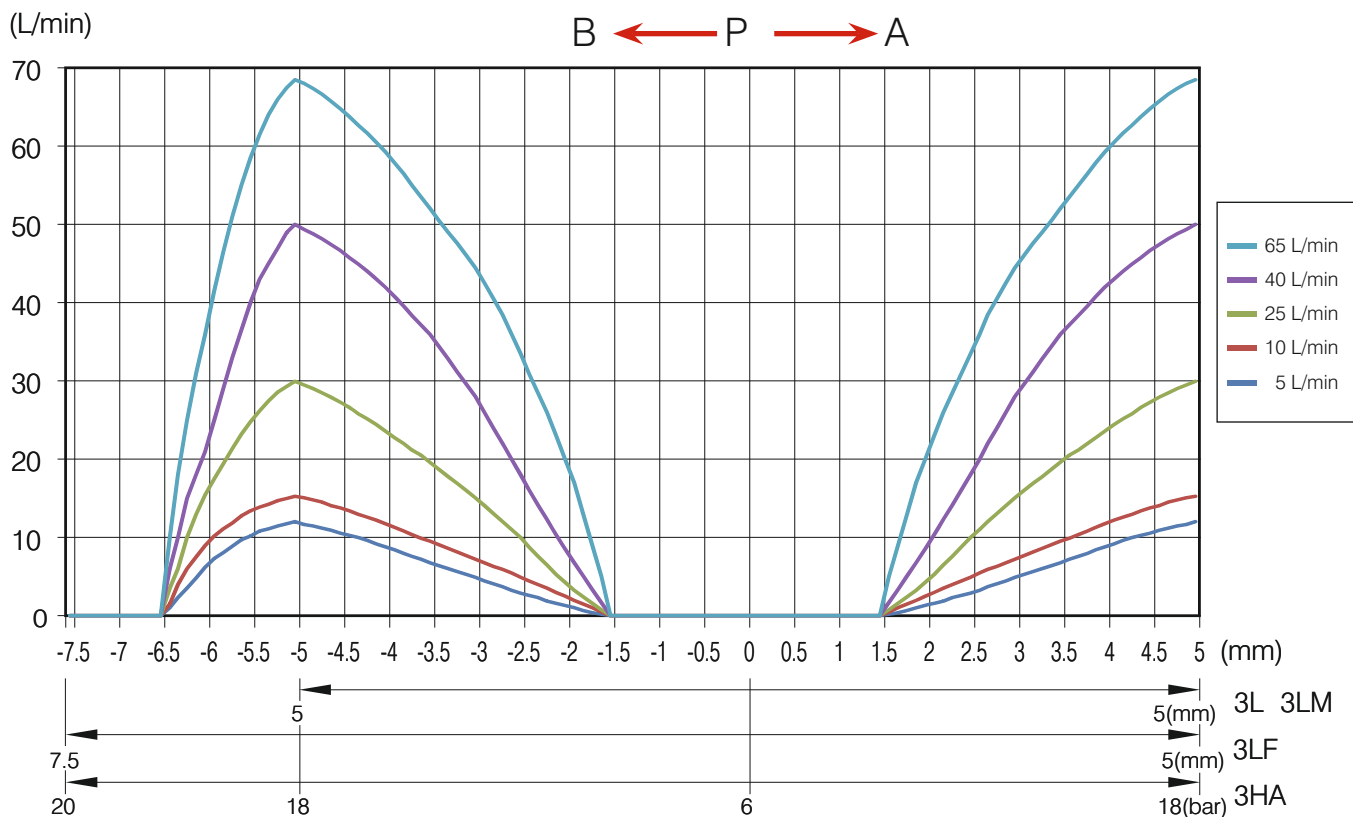
3 1 0 2 BA T P T	3 1 0 2 BA T P T	3 1 0 2 BA T P T	3 1 0 2 BA T P T
A & B → T P Closed	P → B A → T	A & B → T P Closed	P → A B → T

Flow	25 (L/min)	40 (L/min)	65 (L/min)
Code	YLWPV32L2025	YLWPV32L2040	YLWPV32L2065
	YLWPV32L2025HA	YLWPV32L2040HA	YLWPV32L2065HA
	YLWPV32L2025EP	YLWPV32L2040EP	YLWPV32L2065EP

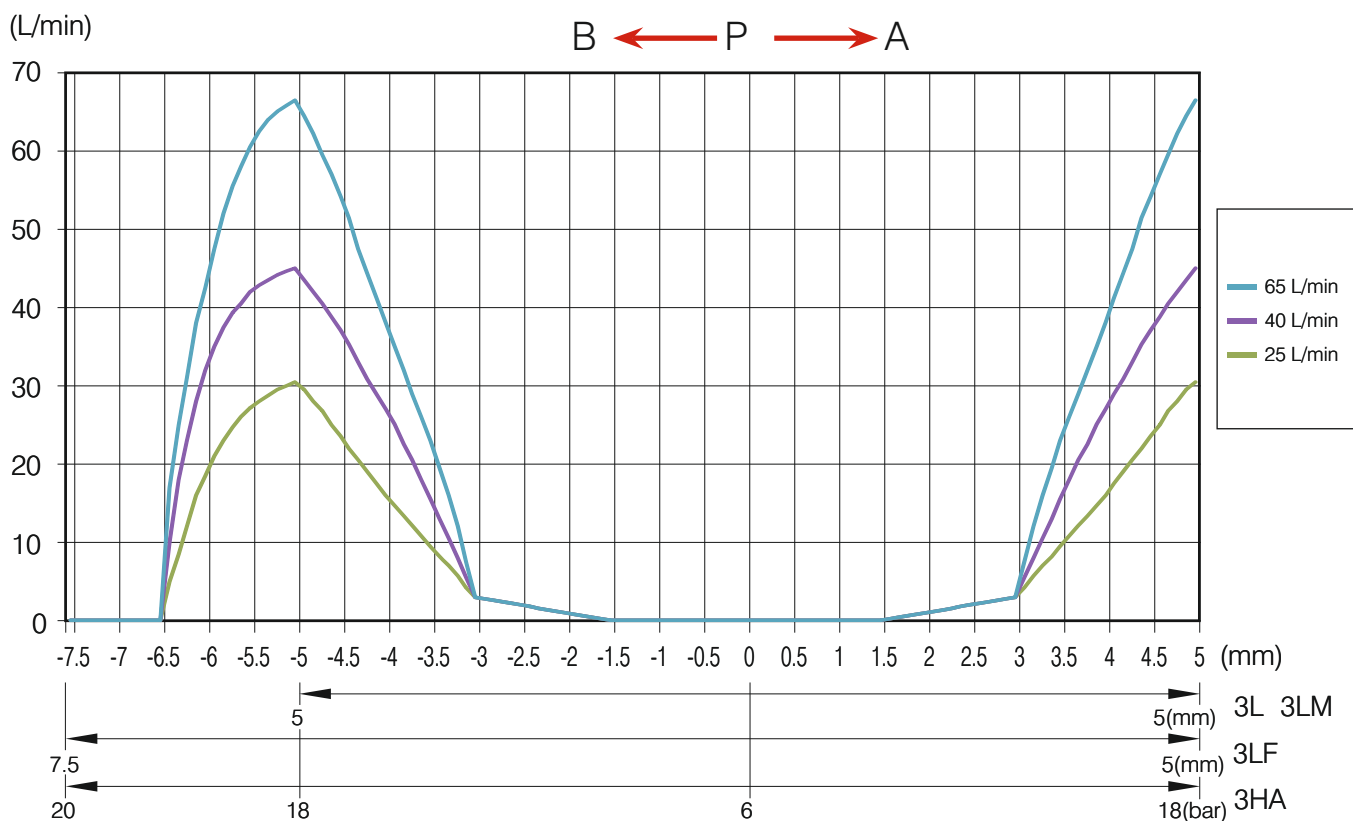


Progressive Oil Flow Characteristic For Spool

PV-3 Flow curve

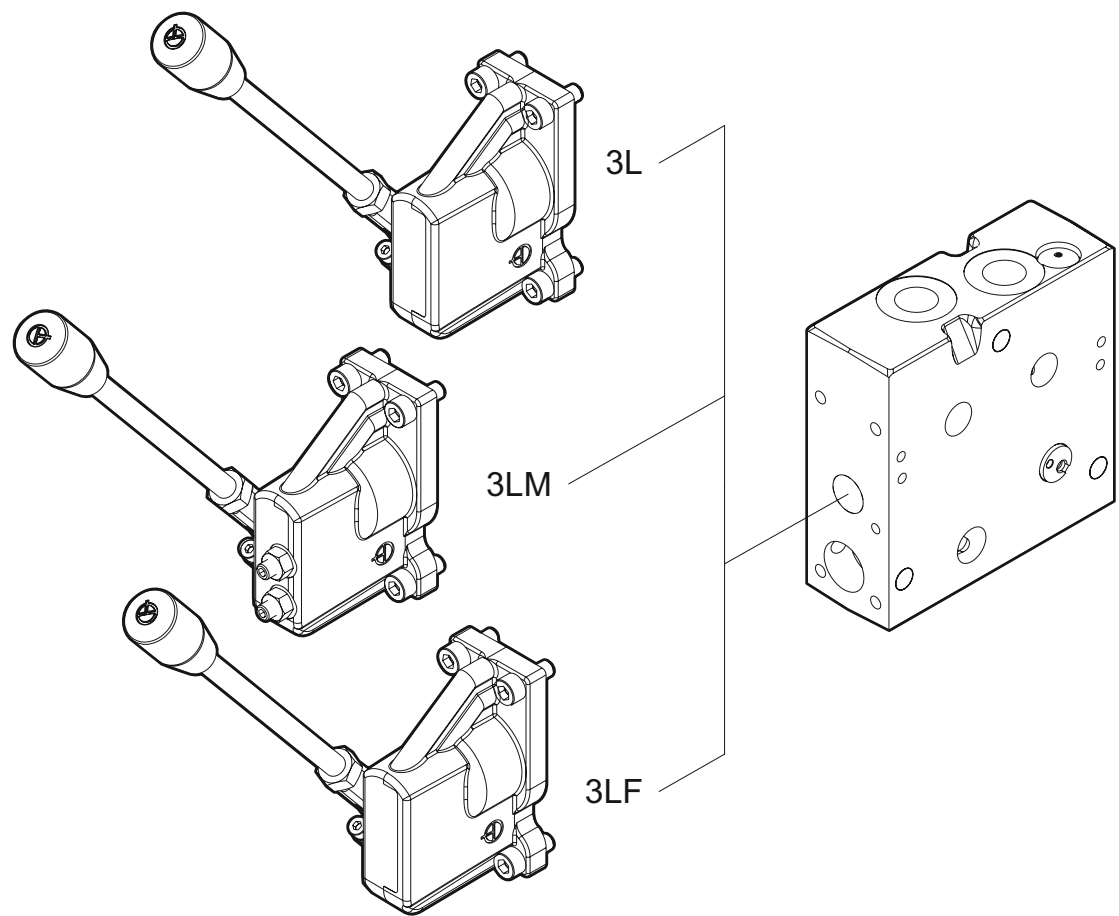


PV-3 Linear flow curve





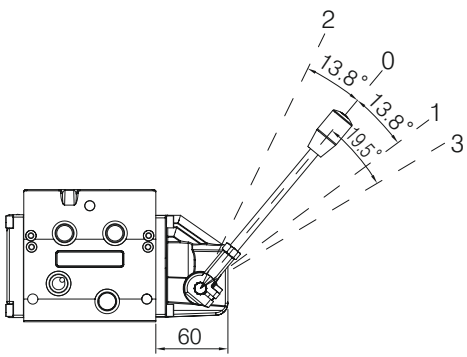
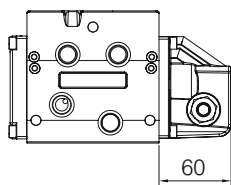
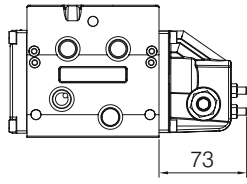
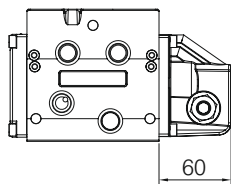
A Side Options



Type 3L	Circuit	
		Standard lever.
Type 3LM	Circuit	
		Standard lever; individual oil flow adjustment to ports A and B.

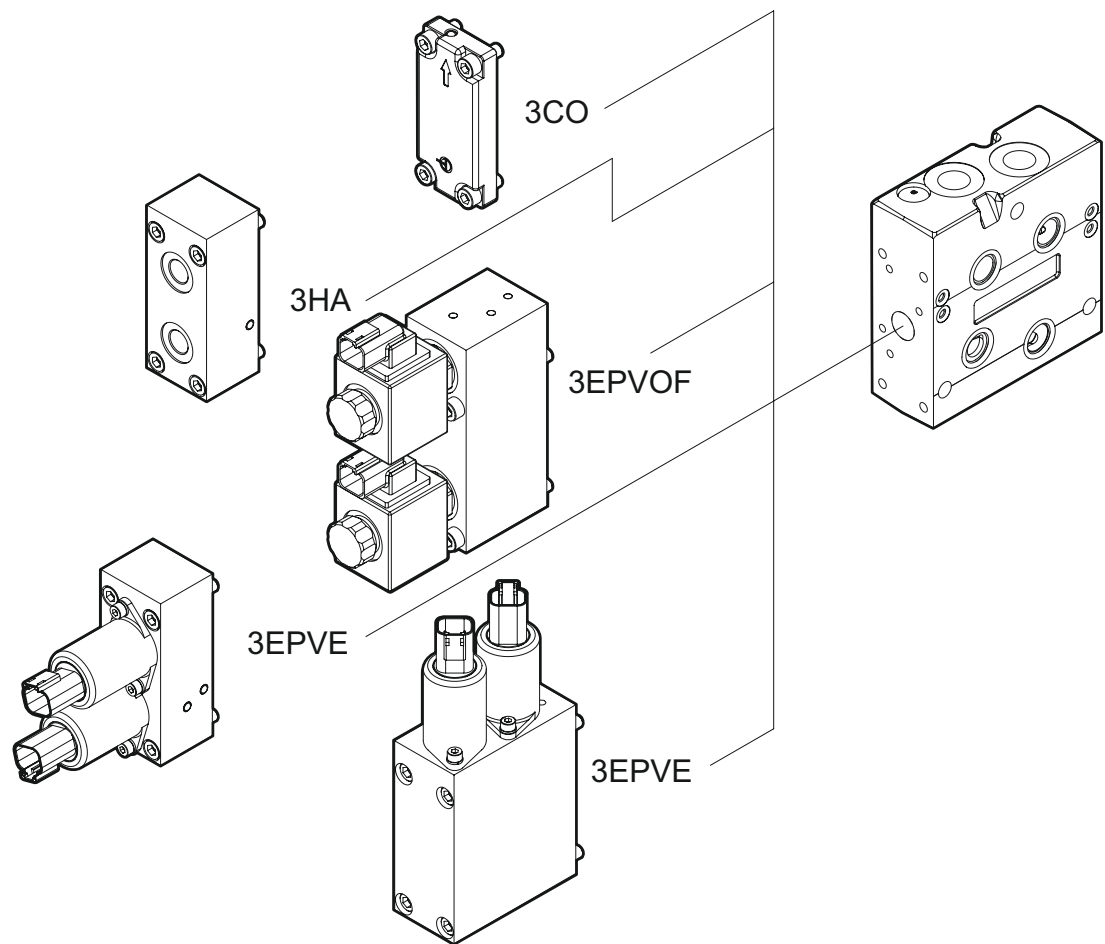


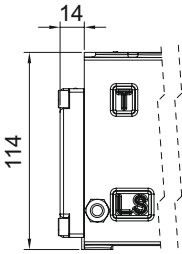
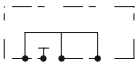
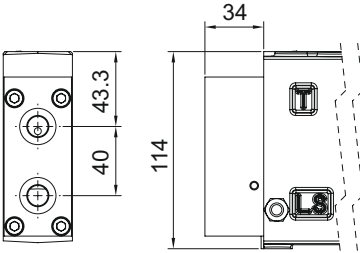
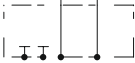
A Side Options

Type 3LF	Circuit	
		Floating lever.
Type 3LN	Circuit	
		Standard lever-cover without handle.
Type 3LMN	Circuit	
		Standard lever-cover without handle with individual oil flow adjustment to ports A and B.
Type 3LFN	Circuit	
		Floating lever-cover without handle.



B Side Options



Type 3CO	Symbol	
		Standard cover.
Type 3HA-G2	Symbol	Thread Code : G1/4
Type 3HA-E5		Thread Code : 1/2-20 UNF
		Cover for hydraulic actuation to match hA spool. Control range: For 3L、 3LM: 0~5 mm →6~18 Bar. For 3LF: 0~7.5 mm→ 6~20 Bar.



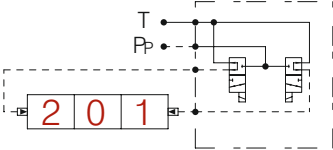
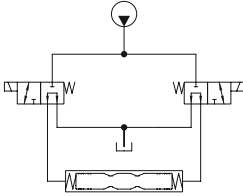
B Side Options

Function

The main spool is controlled by ON/OFF modulated Plug-in Solenoid valve, reaction from neutral position to max spool travel.

	Description	Connector	enclosure to IEC 529
3EPVOF-D1201	ON/OFF modulation plug-in solenoid valve, rated voltage 12V.	Deutsh	IP67
3EPVOF-D2401	ON/OFF modulation plug-in solenoid valve, rated voltage 24V.	Deutsh	IP67

Parameter	12V dC	24V dC
Permissible deviation from rated supply voltage	± 10%	
Resistance	7.5 Ω±7%	28.6 Ω±7%
Power consumption	20 W	
Ambient temperature	-30°C~60°C {-22°F~140°F}	
Oil temperature (Inlet temperature)	-40°C~120°C {-40°F~248°F}	
Filtration (Max.)	25 m	

Circuit	Function
	
Standard type-deutsh	deutsh

Technical drawing of a valve assembly. The drawing shows a side view and a front view. The side view dimensions are: 113.2 (total width), 60.1 (width of the valve body), and 137.7 (total height). The front view dimensions are: 39 (width of the valve body), 19.5 (width of the top flange), 72 (height of the top flange), 58.5 (height of the valve body), and 24 (height of the bottom flange). The front view also shows two ports labeled Ubc(B) and Ubc(A).

3D perspective view of the valve assembly, showing the top flange, the valve body, and the bottom flange.

Description	QTY	Deutsh
Connector	1	W2S

* By Purchased (non-provided)



B Side Options

Function

The main spool position is adjusted with the electrical proportional actuation, in this condition, the position corresponds to an electrical control signal. The control signal is converted into a hydraulic pressure signal that make the spool moved in the valve. This is done by means of two proportional pressure reducing valve. The electrical actuation can be controlled by both current amplifier card and a programmable micro-controller directly.

※ Use 25 BAR pilot pressure, to match with EP spool. It can't assembly with 3LF.

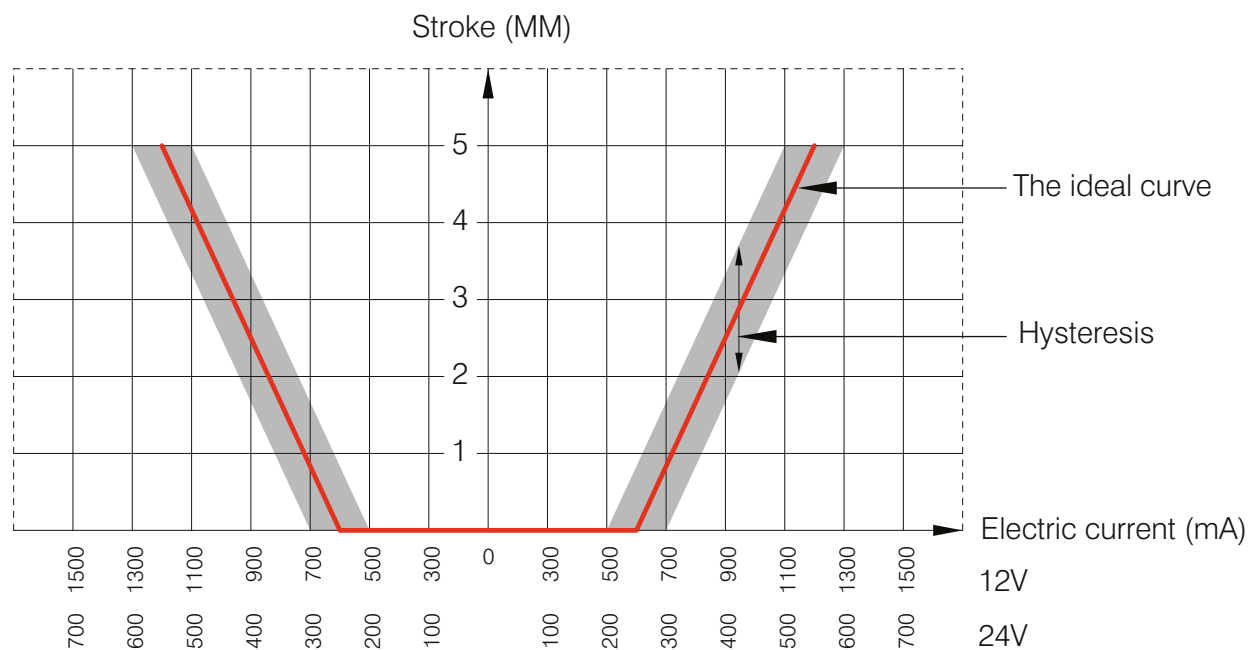
	description	Connector	Enclosure to IEC 529
3EPVE-A1201	Proportional control, rated voltage 12V, standard type.	AMP	IP66
3EPVE-A2401	Proportional control, rated voltage 24V, standard type.	AMP	IP66
3EPVE-D1201	Proportional control, rated voltage 12V, standard type.	Deutsh	IP67
3EPVE-D2401	Proportional control, rated voltage 24V, standard type.	Deutsh	IP67
3EPVE-A1202	Proportional control, rated voltage 12V, vertical type.	AMP	IP66
3EPVE-A 2402	Proportional control, rated voltage 24V, vertical type.	AMP	IP66
3EPVE-D1202	Proportional control, rated voltage 12V, vertical type.	Deutsh	IP67
3EPVE-D2402	Proportional control, rated voltage 24V, vertical type.	Deutsh	IP67

Parameter	12V dC	24V dC
Controller output current range	0~1500 mA	0~750 mA
Resistance	4.72 $\Omega \pm 5\%$	20.8 $\Omega \pm 5\%$
Current consumption	24 mA (12V)	20 mA (24V)
Control type	Current control recommended: PWM 100HZ	
Pilot pressure	Min. 21 bar { 305 psi } , Max. 25 bar { 636 psi }	
Pressure control range	5~15 bar { 72.5~217.5 psi }	
Ambient temperature	-30°C~80°C { -22°F~176°F }	
Medium temperature	-20°C~80°C { -4°F~176°F }	
Oil Viscosity	Range : 12~75 mm ² /s { 65~350 SUS }	
	Min.: 4 mm ² /s { 40 SUS }	
	Max.: 400 mm ² /s { 2130 SUS }	
Filtering in the hydraulic system	Max. allowed degree of contamination (ISO 4406)	

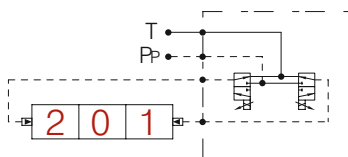


B Side Options: 3EPVE

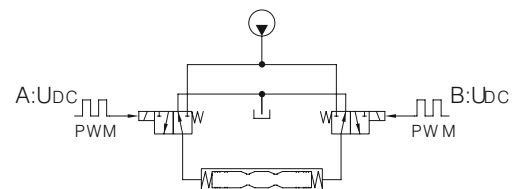
Performance Graphs



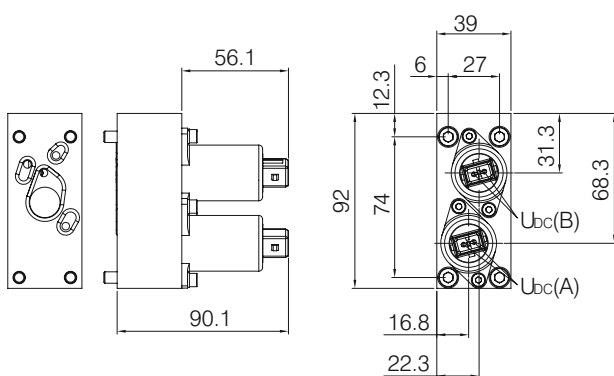
Circuit



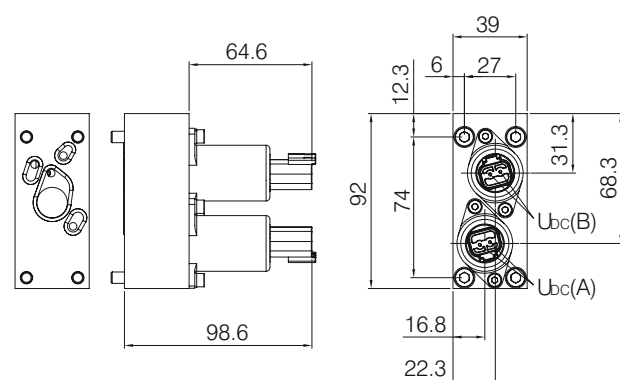
Function



Standard type-AMP



Standard type-deutsh





B Side Options: 3EPVE

Vertical type-AMP

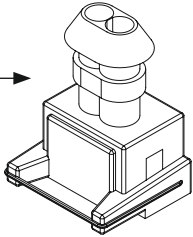
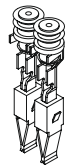
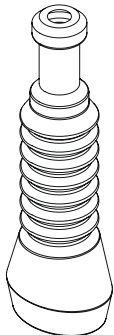
Vertical type-deutch

AMP Connector Version AMP

Description	QTY	AMP
Seal kit	1	880810-1

Description	QTY	AMP
Contacts	2	828905-1
Contacts	2	929930-3

Description	QTY	AMP
Connector	1	282189-1

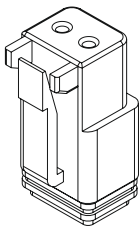


* By Purchased (non-provided)

deutch Connector Version deutch

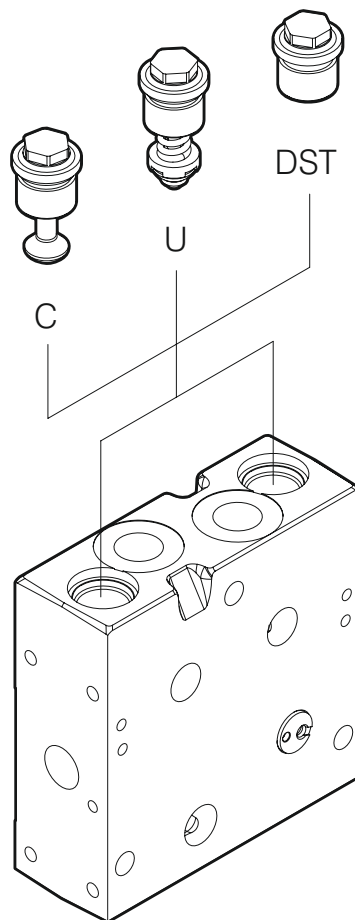
Description	QTY	AMP
Connector	1	W2S

* By Purchased (non-provided)

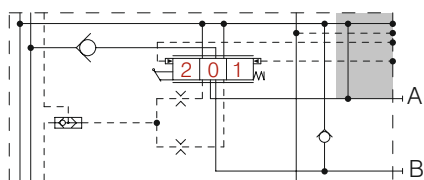




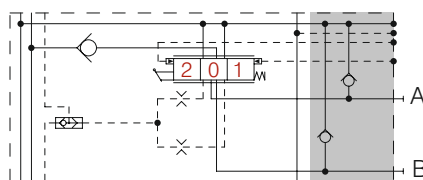
Suction Valve Options



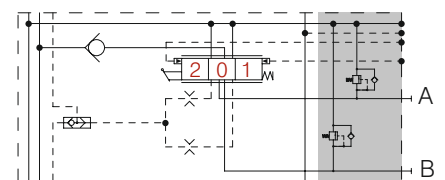
PV3-Type dST



PV3-Type C



PV3-Type u





Suction Valve Options

Shock And Suction Valve Options

Setting pressure		item
bar	psi	
32	460	U32
50	725	U50
63	914	U63
80	1160	U80
100	1450	U100
125	1813	U125
140	2031	U140
150	2175	U150
160	2320	U160
175	2538	U175
190	2755	U190
210	3045	U210
230	3335	U230
240	3480	U240
250	3625	U250
265	3843	U265
280	4061	U280
300	4351	U300
320	4641	U320
350	5075	U350

Technical Parameters

Assembly Torque Data

Thread type-G		Thread type-e	
Specification	n-m	Specification	n-m
		3/8"-24 UNF (SAE 3)	18
G2 (PF 1/4)	40	7/16"-20 UNF (SAE 4)	29
G3 (PF 3/8)	80	1/2"-20 UNF (SAE 5)	32
G4 (PF 1/2)	115	9/16"-18 UNF (SAE 6)	40
G6 (PF 3/4)	180	3/4"-16 UNF (SAE 8)	70
G8 (PF 1)	310	7/8"-14 UNF (SAE 10)	115
G10 (PF 1-1/4)	450	1-1/16"-12 UN (SAE 12)	185
		1-5/16"-12 UN (SAE 16)	270
		1-5/8"-12 UN (SAE 20)	340

* Assembly torque data $\pm 10\%$ N-m.



Suction Valve Options

	Description of Function	P1:	P:				P2:
		Bar					
1		A:	L: Bar	W:	W2:	B:	
			W1:	G:			
2		A:	L: Bar	W:	W2:	B:	
			W1:	G:			
3		A:	L: Bar	W:	W2:	B:	
			W1:	G:			
4		A:	L: Bar	W:	W2:	B:	
			W1:	G:			
5		A:	L: Bar	W:	W2:	B:	
			W1:	G:			
6		A:	L: Bar	W:	W2:	B:	
			W1:	G:			
7		A:	L: Bar	W:	W2:	B:	
			W1:	G:			
8		A:	L: Bar	W:	W2:	B:	
			W1:	G:			
9		A:	L: Bar	W:	W2:	B:	
			W1:	G:			
10		A:	L: Bar	W:	W2:	B:	
			W1:	G:			
11		A:	L: Bar	W:	W2:	B:	
			W1:	G:			
12		A:	L: Bar	W:	W2:	B:	
			W1:	G:			
		M:	T:				

Specification sheet: P: Pump side module

A: A side options

L: LS Pressure relief valve setting

P1: Plug for external pilot oil supply

B: B side options

W: Basic moldules

G: Spool

P2: LS Solenoid Unloading vavle LS

W1/W2: Shock and suction valve

T: End plate

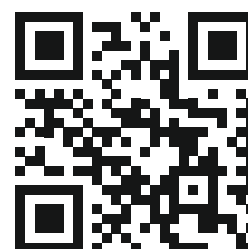
M: Tie rod kit

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



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