YEOSHE

Hydraulic Piston Pump

V Series

www.yeoshehydraulic.com

Efficient Performance

Innovative Technology

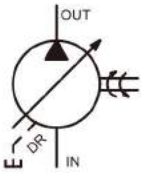
Reliable Quality and Service

YEOSHE HYDRAULICS CO.,LTD.

V Axial piston pump

V Series axial piston pump

1.V Series pump,new design for changeable angle of swash plate,wide applications.
2.Special design,low noise level during full pressure time.
3.Modular control,easy to design system,adventages are:power saving,small size,low cost.
4.Low power comsuming,low oil temperature rising,suitable application for assembling small power units.



nominal(rated) pressure:175 bar
max. pressure:250 bar / 6ms
1000 ms = 1 sec.

Specifications

Size	Model	Displacement		at (7 bar) 100 PSI				Pressure Adj.	Speed		Weight
		cm^3/rev	In^3/rev	1500 RPM LPM	1500 RPM U.S. GPM	1800 RPM LPM	1800 RPM U.S. GPM	kgf/cm^2	Max. RPM	Min. RPM	KG (LB)
1	V 8	8.0	0.48	12.0	3.17	14.4	3.8	1: 8~70 2: 15~140 3: 20~210 4: 20~250	1800	500	13 (28.6)
	V10	10.0	0.61	15.0	3.90	18.0	4.76				13 (28.6)
	V12	12.0	0.73	18.0	4.76	21.6	5.73				13 (28.6)
	V15	15.0	0.90	22.5	5.78	27.0	7.05				13 (28.6)
	V18	17.8	1.09	26.7	7.05	32.0	8.45				13 (28.6)
2	V23	23.0	1.40	35.4	9.11	41.4	10.94				22 (48.4)
	V25	25.0	1.52	37.5	9.66	45.0	11.60				22 (48.4)
3	V38	37.8	2.31	56.7	14.98	68.0	17.96				26 (57.2)
	V42	42.0	2.56	63.0	16.23	76.0	19.58				26 (57.2)
4	V50	51.5	3.14	77.2	20.37	92.7	24.48	1: 8~70 2: 15~140 3: 20~210			56 (123.2)
	V70	69.7	4.25	104.5	27.6	125.4	33.10				56 (123.2)

1.Install outlet on top,the pipe pressure needs less than 2bar.
2.Using at max.pressure,please undre 6 sec for per-cycle time.
3.Hydraulic oil clean,please following YEOSHE instruction maunal.
4.YEOSHE supply combinable pumps with different series,standard with Metric / SAE size.

Type code for standard program

V	15	A	3	R			-							
1	2	3	4	5	6	7		8	9	10	11	12	13	14
Series	Size and displacement	Control device	Pressure adjusting	Rotation	Direction of pipe connections	Shaft type		Voltage	Threads type	Thru drive & 2nd pump	Special spec.	Mounting	Seals	Design No.

Series

1	Axial piston pump variable displacement high pressure version	nominal pressure: 175 bar max. pressure: 280 bar / 6ms 1000 ms = 1 sec.	V

Size and displacement

	Code		8	10	12	15	18	23	25	38	42	50	70
2	Size		1					2		3		4	
	Displacement	cm^3 / rev	8	10	12	15	18	23.0	25.0	37.8	42.0	51.5	69.7
		In^3 / rev	0.48	0.61	0.73	0.90	1.1	1.40	1.52	2.31	2.56	3.14	4.25

Control device

3	Standard pressure control			A ※
	Remote pressure control			G
	Load-sensing control	Pressure		HL□
		△ A	Low : 7KG	
		B	Mid : 14KG	
		C	High : 21KG	
	Muti-stage flow & Singe-stage pressure control (with cylinder)			B
	2-stage pressure & Flow control			C
	2-stage pressure & Flow control + Remote			CG
	2-stage pressure & Flow control + Low tension unloading			CR
	Low tension unloading + Pressure control			D
	Low tension unloading + Pressure control + Remote			DG
	Electric 2-stage pressure control			E
	Electric 2-stage pressure control + Remote			EG
	Electric 2-stage pressure control & Flow control			F
	Electric 2-stage pressure control & Flow control + Remote			FG
	Remote pressure compensator with NG6 interface			GM
	Remote pressure compensator + Proportional pressure valve			GJ
	Remote pressure compensator + Electrical unloading			GR
	Remote pressure compensator + 2-stage pressure control			GB
	Remote pressure compensator + Electrical unloading + 2-stage pressure control			GC
	Load-sensing compensator + Proportional flow valve + Relief valve	Pressure		HQ□
		A	Low : 7KG	
		B	Mid : 14KG	
		C	High : 21KG	
	Load-sensing compensator + Proportional pressure valve + Proportional flow valve	Pressure		HK□
		A	Low : 7KG	
		B	Mid : 14KG	
		C	High : 21KG	

■ = available - = on request ※ = standard type △ = custom made

YEOSHE

Type code for standard program

V	15	A	3	R			-							
1	2	3	4	5	6	7		8	9	10	11	12	13	14
Series	Size and displacement	Control device	Pressure adjusting	Rotation	Direction of pipe connections	Shaft type		Voltage	Threads type	Thru drive & 2nd pump	Special spec.	Mounting	Seals	Design No.

Pressure adjusting

4	8~70 bar (0.8~6.9 Mpa)	1
	15~140 bar (1.5~13.7 Mpa)	2
	20~210 bar (2.0~20.6 Mpa)	3
	20~250 bar (2.0~24.5 Mpa)	4

Rotation

5	Clockwise	R
	Counter clockwise	L

Direction of pipe connections

		8	10	12	15	18	23	25	38	42	50	70	
6	None: Side port (Flange)	■	■	■	■	■	■	■	■	■	■	■	※
	Rear port (Flange)	-	-	-	-	-	■	■	■	■	■	■	B
	Side port + Rear port (Flange)	-	-	-	-	-	■	■	■	■	-	-	B2

Shaft type

	Displacement	Code
7	None	Key:
	V15,V18	Splind shaft: S 13T 16/32 DP S1 9T 16/32 DP S2 11T 16/32 DP
	V23,V25	Splind shaft: S 13T 16/32 DP △ S1 15T 16/32 DP △ S3 13T 16/32 DP longer
	V38,V42	Splind shaft: S 13T 16/32 DP S1 15T 16/32 DP S3 13T 16/32 DP longer
	V50,V70	Splind shaft: S 14T 12/24 DP △ S1 17T 12/24 DP

Voltage

8	None	
	AC100V (50/60HZ)	A
	AC110V (60HZ)	B
	AC220V (50/60HZ)	C
	AC220V (60HZ)	D
	DC 12V	E
	DC 24V	F ※

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Type code for standard program

V	15	A	3	R			-							
1	2	3	4	5	6	7		8	9	10	11	12	13	14
Series	Size and displacement	Control device	Pressure adjusting	Rotation	Direction of pipe connections	Shaft type		Voltage	Threads type	Thru drive & 2nd pump	Special spec.	Mounting	Seals	Design No.

Threads

9	PT (RC)	■	■	■	■	■	■	■	■	■	■	■	10 ※
	BSPP (G)	■	■	■	■	■	■	■	■	■	■	■	40 ※
	NPT	△	△	△	△	△	△	△	△	△	△	△	50
	UNF (SAE o-ring)	■	■	■	■	■	■	■	■	■	■	■	60
	Metric	△	△	△	△	△	△	△	△	△	△	△	70

Thre drive & 2nd pump

10	without thru drive	
	Ø 50.8 mm SAE AA	C
	Ø 82.55 mm SAE A	D
	Ø101.6 mm SAE B	E
	Ø 127 mm	F
	Ø 63 mm	I
	Ø 80 mm	J
	Ø 100 mm	K
	Ø 125 mm	L

(Plesae contact YEOSHE,if other size required.)

Special specification

11	Standard type	X	※
	Low Pressure type	X1	
	Deahead pressure relief type	Z	

Mounting

12	Only for V15, V18 can select "A", other displacement only select "None:Standard"	None：Standard		※
		SAE A 2 bolt	A	

Seals

13	NBR		※
	VITON	A	

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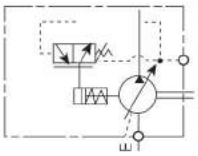
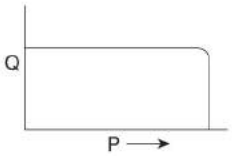
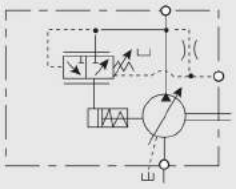
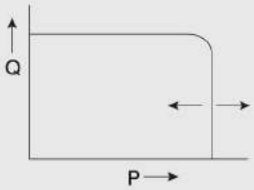
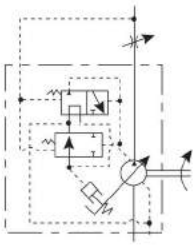
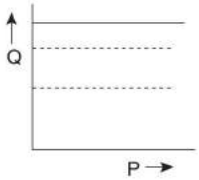
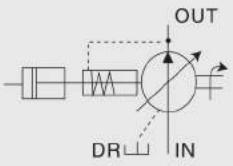
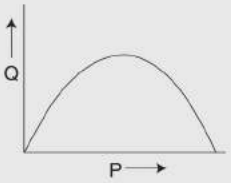
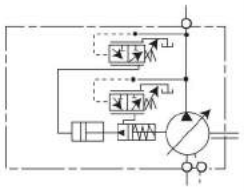
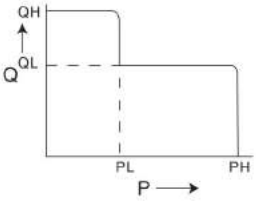
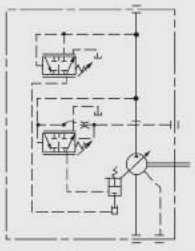
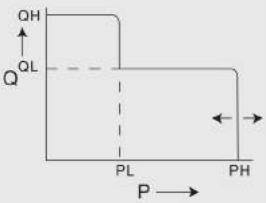
Control type

Controls	Symbol	Characteristic	Specifications
A type: Standard pressure control			1.When system pressure increase and reach present pressure the flow decrease automatically and pressure to be constant. 2.Pressure and flow can be adjusted manually.
G type: Remote pressure control			1.The same function of “A”control type. 2.Pressure can be adjusted remotely by the remote control valve.
HL type: Load-sensing control			1.HL valve with 2 different pressure,control displacement . 2.The flow can be changed by HL valve,the sensing feedback can reach low oil temperature and energy saving.
B type: Muti-stage flow & Singe-stage pressure control (with cylinder)			1.Flow can be adjusted from 0 to maximum and pressure can be maintaining at preset pressure. 2.Absorbing impact and vibration which are produced by up down motions . It is suitable for lifting equipment etc.
C type: 2-stage pressure & Flow control			1.2-stage pressure to adjust PL to QH and ： PH to QL. 2.When pressure increase and reach preset pressure“PH”,flow is reduced to“QL”. 3.Adapt for long dead head and short pressurizing machines,speedy and energy saving. 4.Pressure "PH""PL",and flow "QH""QL"can be adjusted optionally.
CG type: 2-stage pressure & Flow control + Remote			1.The same function of “C” control type. 2.The pressure and the range can be adjusted by remote control valve. 3.Install YEOSHE solenoid control valve to reach good performance.

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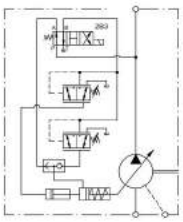
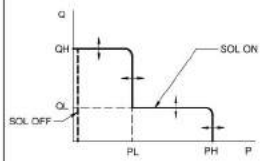
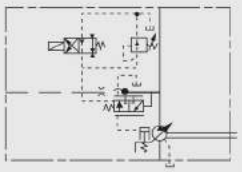
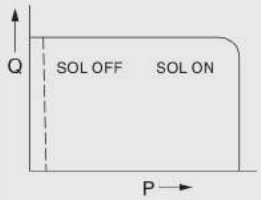
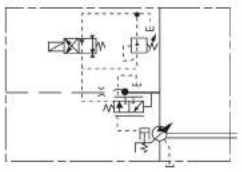
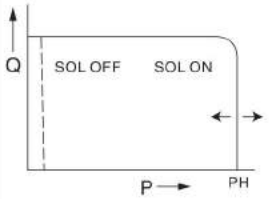
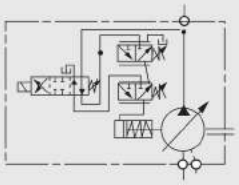
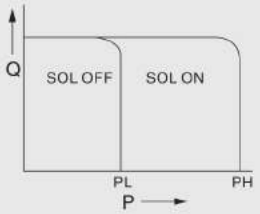
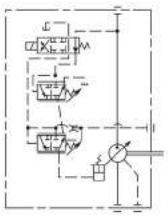
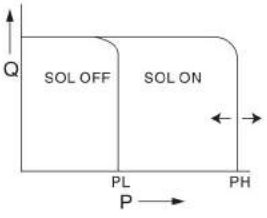
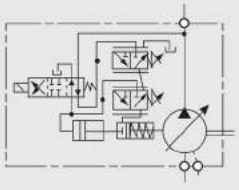
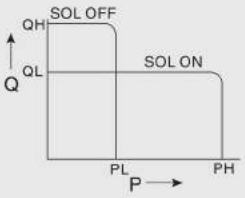
Control type

Controls	Symbol	Characteristic	Specifications
CR type: 2-stage pressure & Flow control + Low tension unloading			1.Insall YEOSHE solenoid valve,control 2-stage pressure. 2.It is suitable for constant speed lifting equipments,and setting 2-stage working pressure. 3.PL and PH,two opptions can be PH. SOL OFF: Low tension unloading SOL OFF: 2-stage pressure&flow
D type: Low tension unloading + Pressure control			1.Same as type A and with low tension unloading. 2.It is adapt for long unloading operation. 3.When the system stops,oil temperature and noise maintain low level while being through the unloading.
DG type: Low tension unloading + Pressure control + Remote			1.The same function of "D" control type. 2.The pressure and the range can be adjusted by remote control valve. 3.Install YEOSHE solenoid control valve to reach good performace.
E type: Electric 2-stage pressure control			1.2-stage pressure is controlled by solenoid control valve. 2.Adapt for constant speed lifting equipments, and setting 2-stage working pressure. 3.PL and PH,two options can be PH.
EG type: Electric 2-stage pressure control + Remote			1.The same function of "E"control type. 2.The pressure and the range can be adjusted by remote control vavle. 3.Install YEOSHE solenoid control valve to reach good performance.
F type: Electric 2-stage pressure control & Flow control			1.Electric 2-stage pressure & flow control to adjust PL to QH,PH to QL. 2.Pressure "PL", "PH" and flow "QH" can be adjusted optionally.

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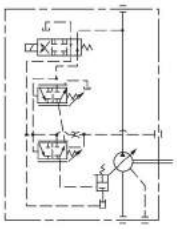
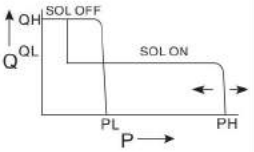
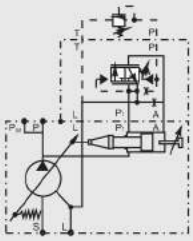
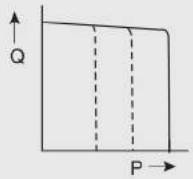
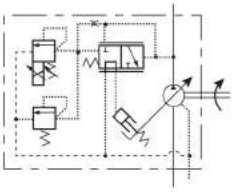
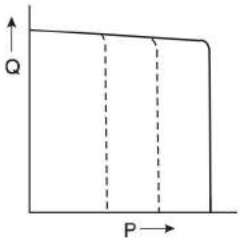
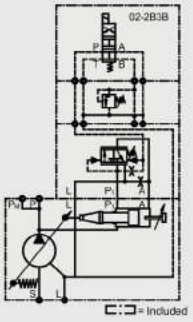
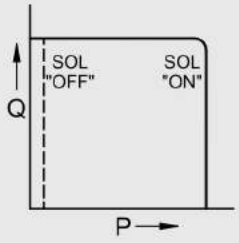
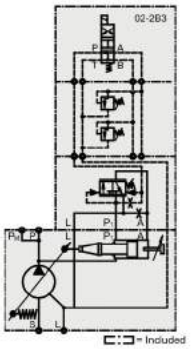
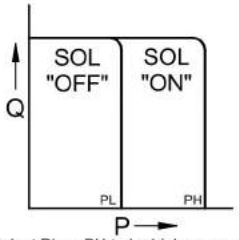
Control type

Controls	Symbol	Characteristic	Specifications
FG type: Electric 2-stage pressure control & Flow control + Remote			1.Electric 2-stage pressure & flow control to adjust PL to QH,PH to QL. 2.Pressure can be adjustd by remote control valve. 3.Pressure "PL", "PH" and flow "QH" can be adjusted optionally.
GM type: Remote pressure compensator with NG6 interface			1.GM Remote pressure compensator with NG6 interface. 2.Speedy reactions,stable pressure supply. 3.Adapt for manual or electric control.
GJ type: Remote pressure compensator + Proportional pressure valve			1.Same as type "GM" and with proportional pressure valve. 2.The proportional valve is installed on the NG6 interface to reach proportional electric control to save energy.
GR type: Remote pressure compensator + Electrical unloading			1.By adding a relief valve and solenoid control valve on the compensator makes pump have both function. 2.GR control is for long unloading situations. When the system stops, oil temperature and noise maintain low level while being through the unloading.
GB type: Remote pressure compensator + 2-stage pressure control		 Select PL or PH to be high pressure	1.By adding a relief valve and solenoid control valve on the compensator makes pump have both function. 2.GB control is for Z-stage working pressure under the constant cylinder speed.

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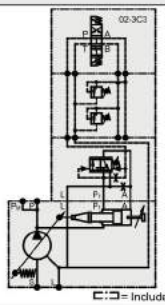
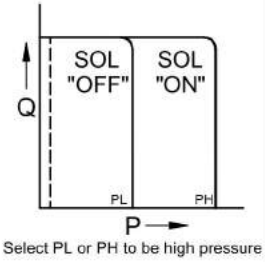
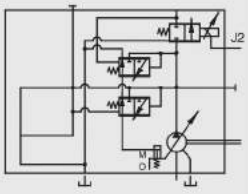
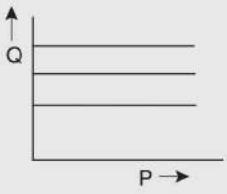
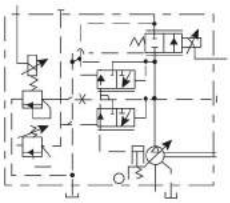
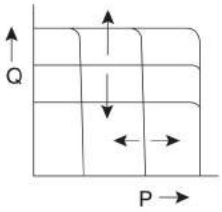
Control type

Controls	Symbol	Characteristic	Specifications
GC type: Remote pressure compensator + Electrical unloading + 2-stage pressure control		 Select PL or PH to be high pressure	1.Control two different-stage limited pressure by adding solenoid valve and unloading function. 2.When the system stops,oil temperature and noise maintain low level by unloading function. 3.Adapt for stable cylinder speed,2-stage pressure,and long unloading situation.
HQ type: Load-sensing compensator + Proportional flow valve + Relief valve			1.HQ control with load-sensing and proportional flow control. 2.By electric input singnal to adjust pump displacement,and the flow is controlled by electric modular control.
HK type: Load-sensing compensator + Proportional pressure valve + Proportional flow valve			1.HK offers the smallest pressure and flow according to different requirement. 2.The displacement is nearly zero when the system stands by,and the motor output is also nearly zero to saving energy. 3.When the system reaches setting pressure,the pump displacement will reduce by itself. It only needs to add the system required flow,and the pressure remains the same which control the oil temperature. 4.Compared with vane pump,gear pump+PQ valve can save 30-50% energy.

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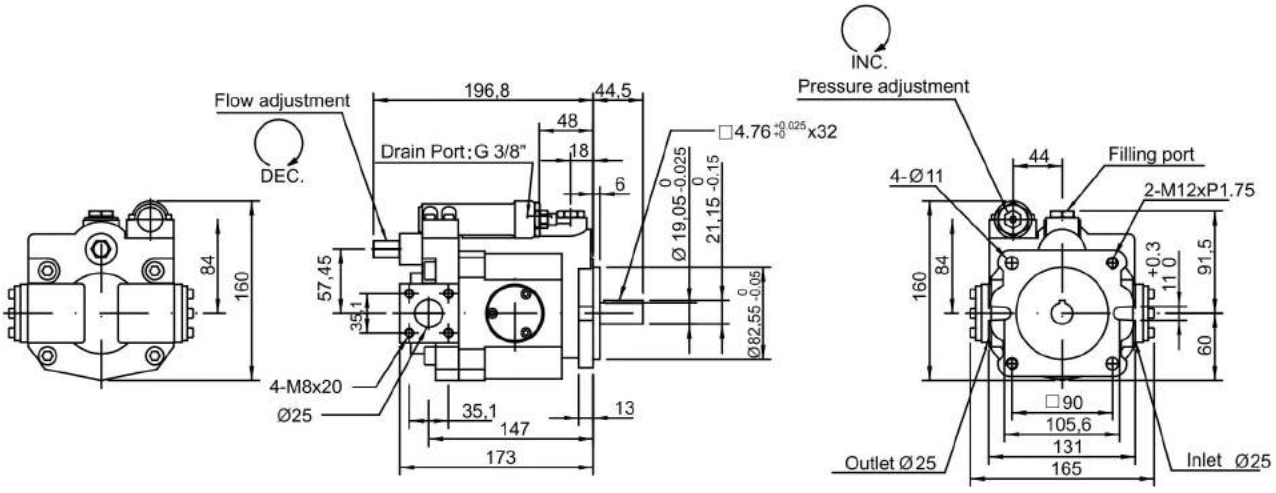
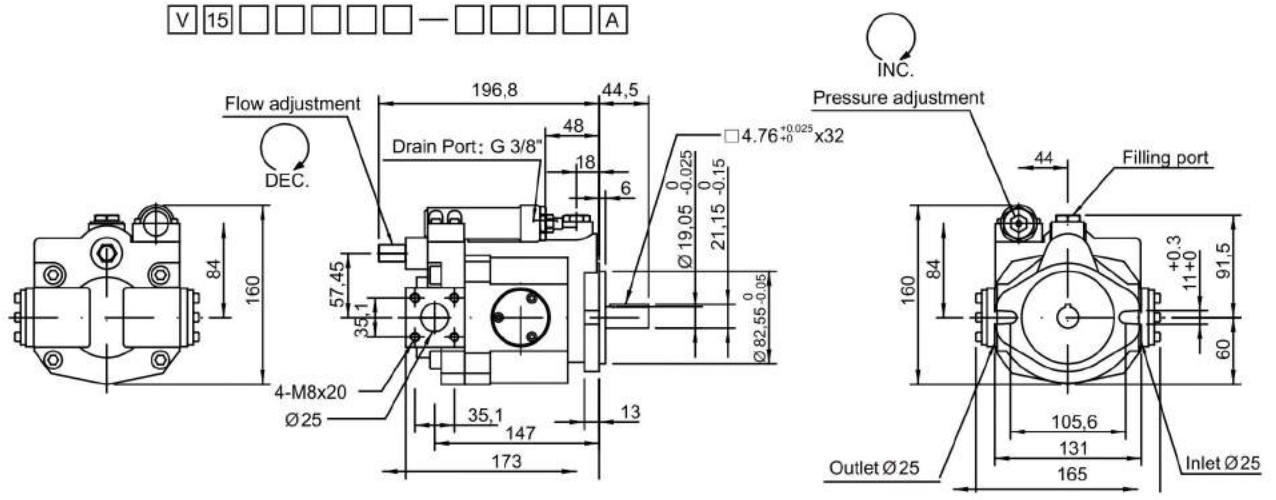
Dimension

V15A, V18A Standard pressure control

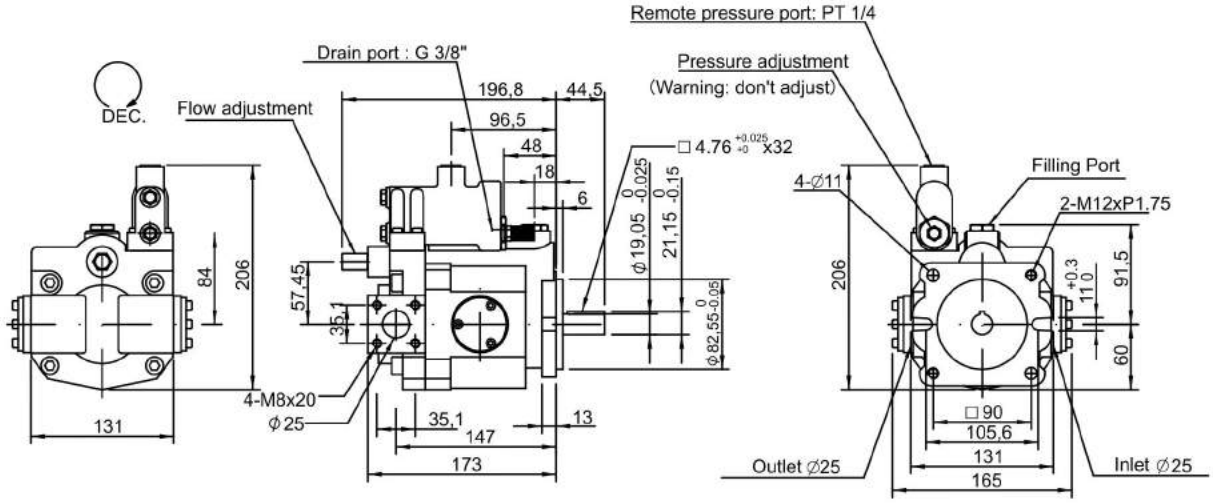


V15A, V18A Standard pressure control (SAE A 2 bolt) Please following order code no.12

V 15 □□□□□□—□□□□A



V15G, V18G Remote pressure control



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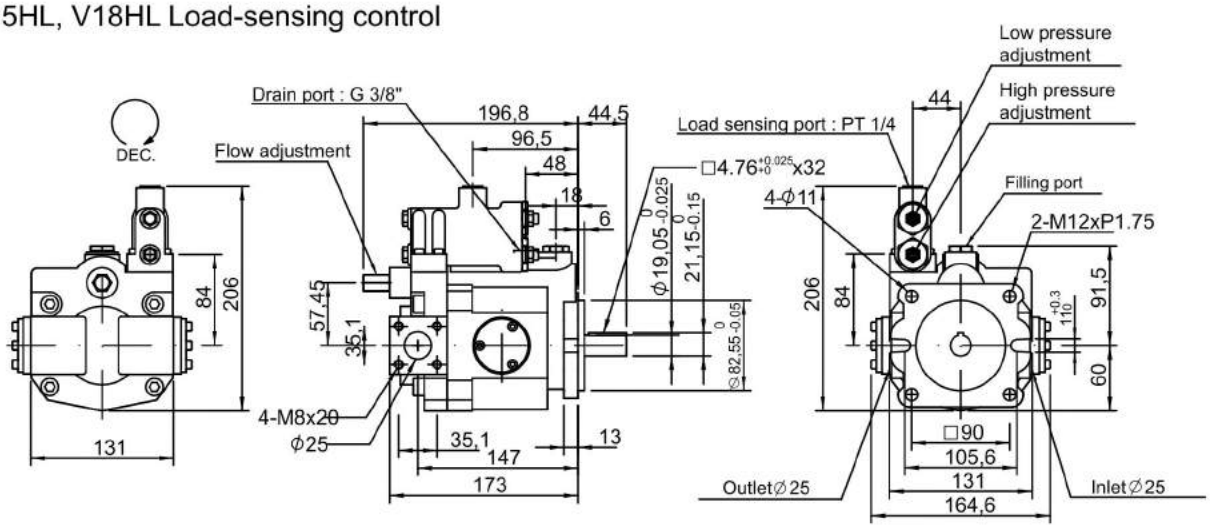
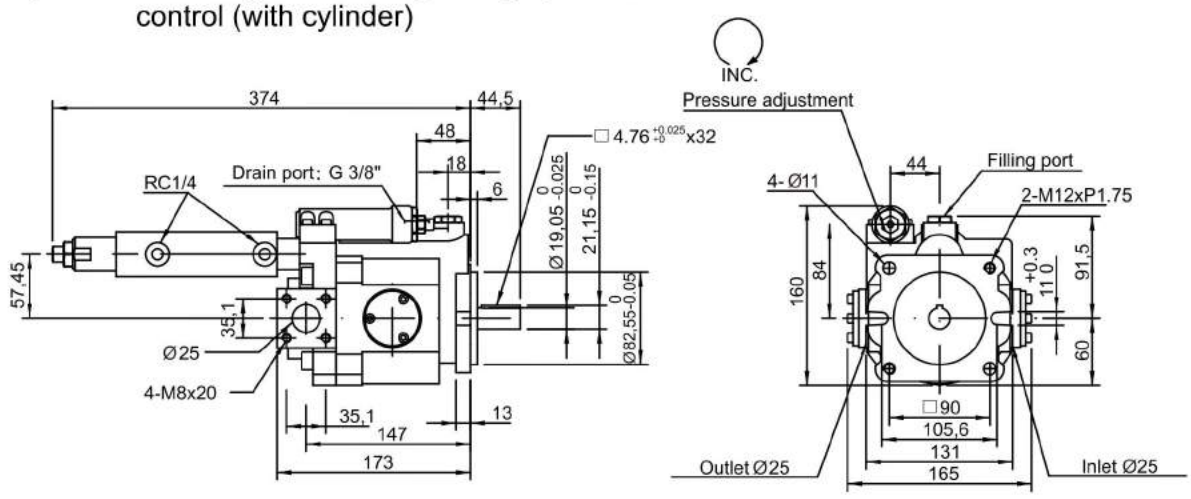
Dimension

V15HL, V18HL Load-sensing control

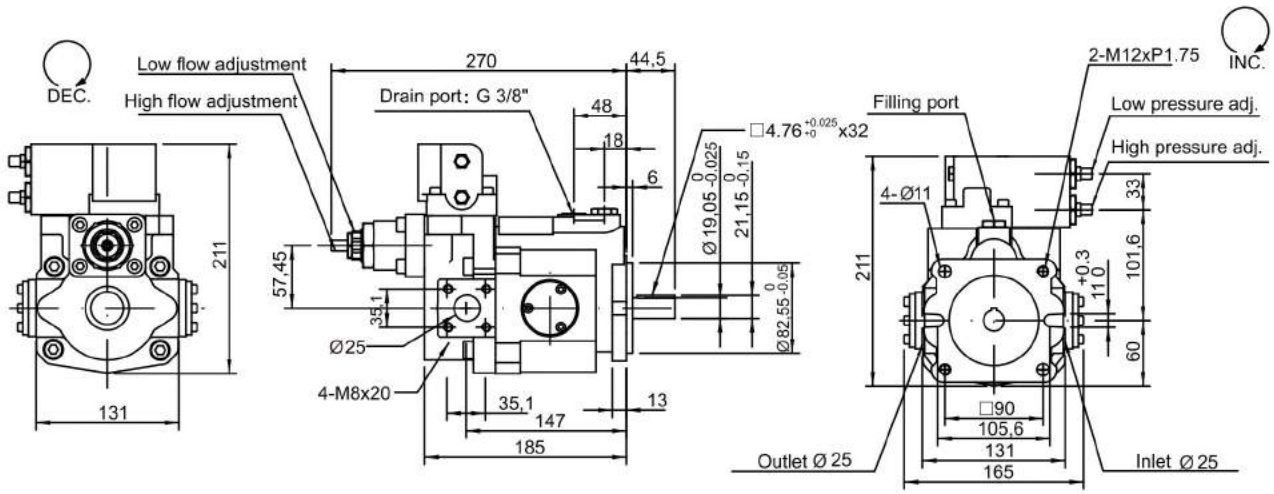


V15B, V18B Multi-stage flow & Single-stage pressure control (with cylinder)

(Remark : Install with A type control)



V15C, V18C 2-stage pressure & Flow control



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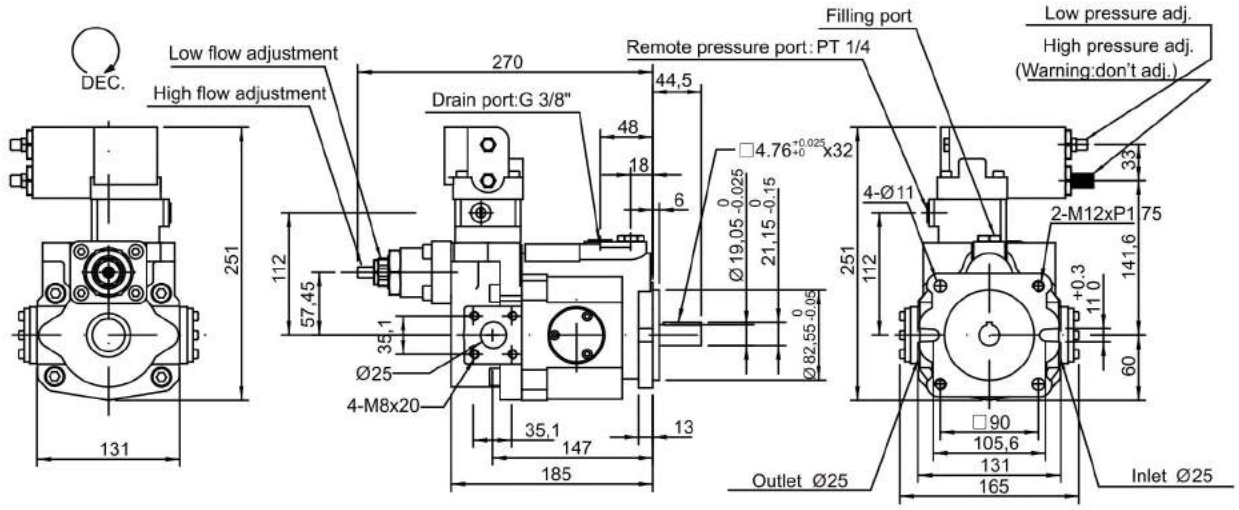
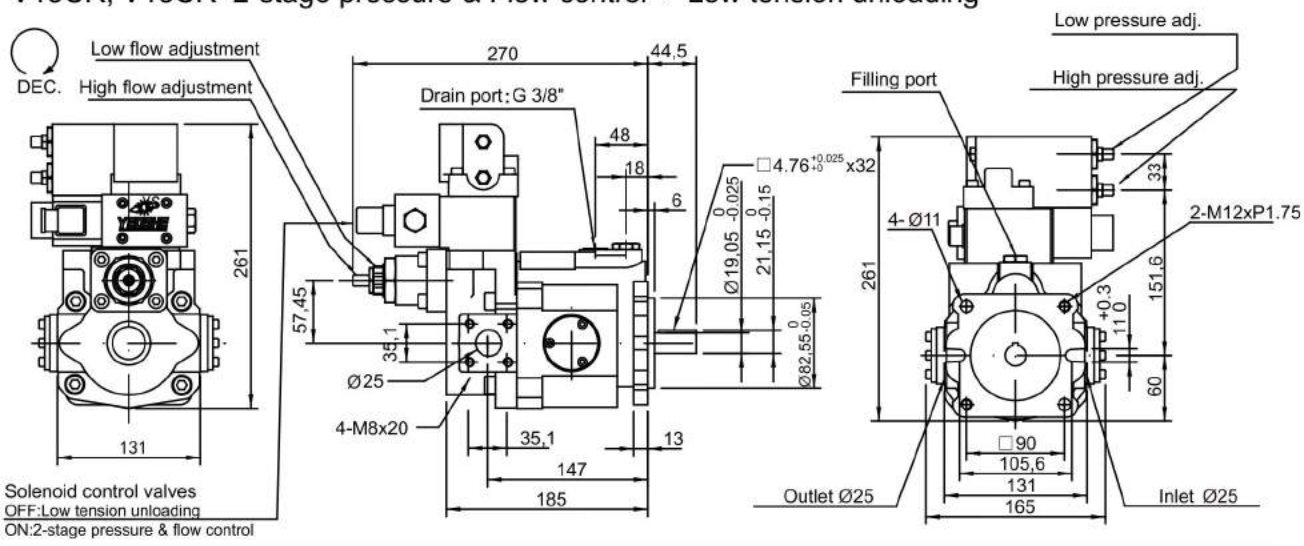
Dimension

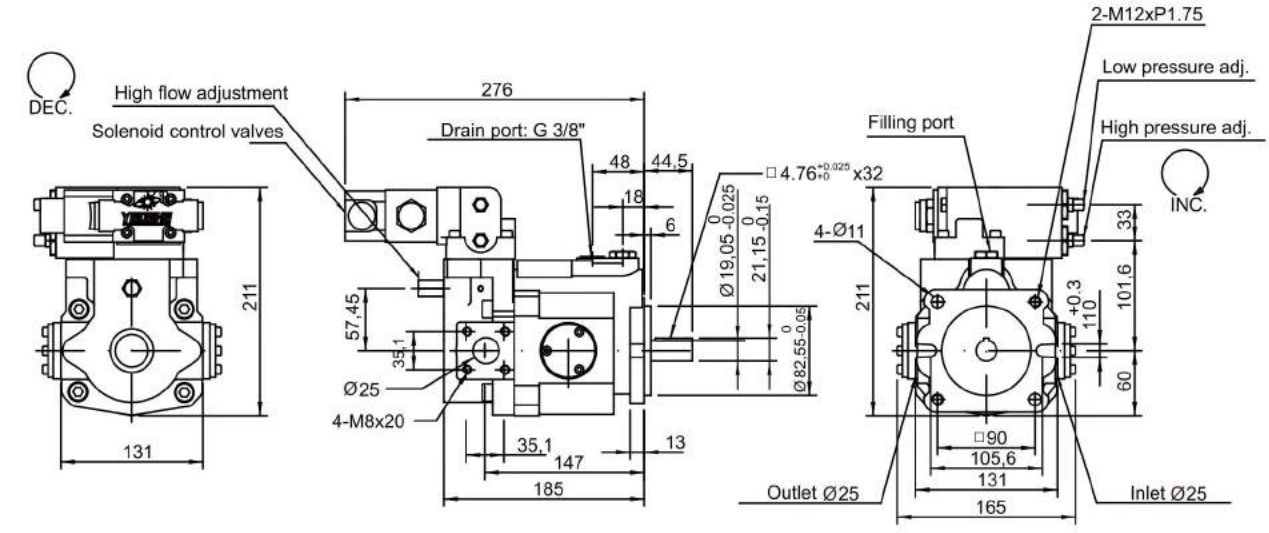
V15CG, V18CG 2-stage pressure & Flow control + Remote



V15CR, V18CR 2-stage pressure & Flow control + Low tension unloading



V15D, V18D Low tension unloading + Pressure control



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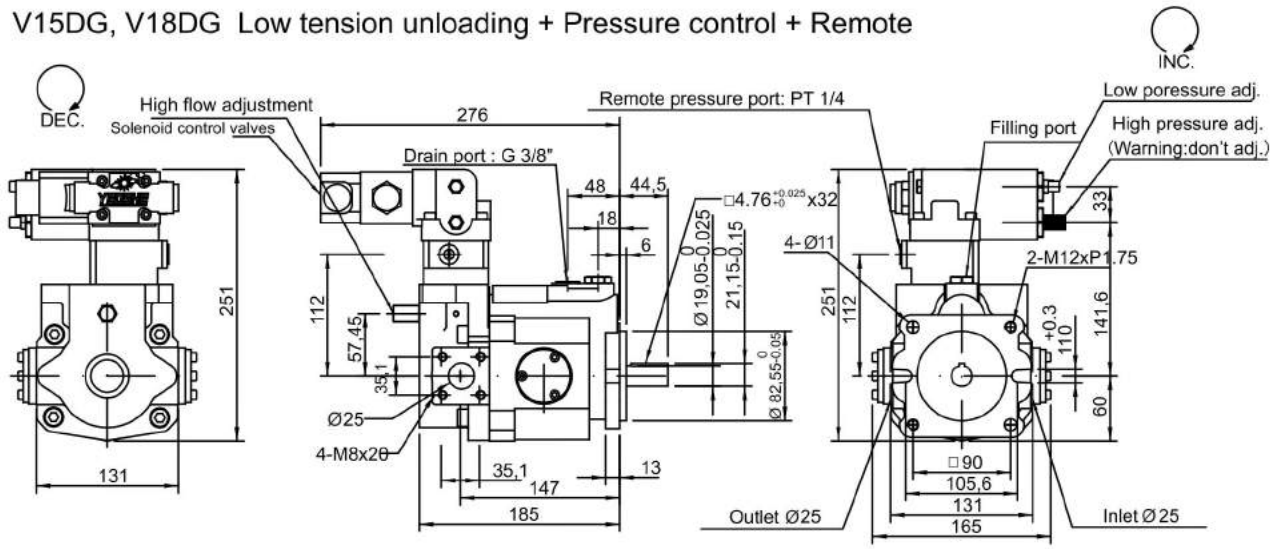
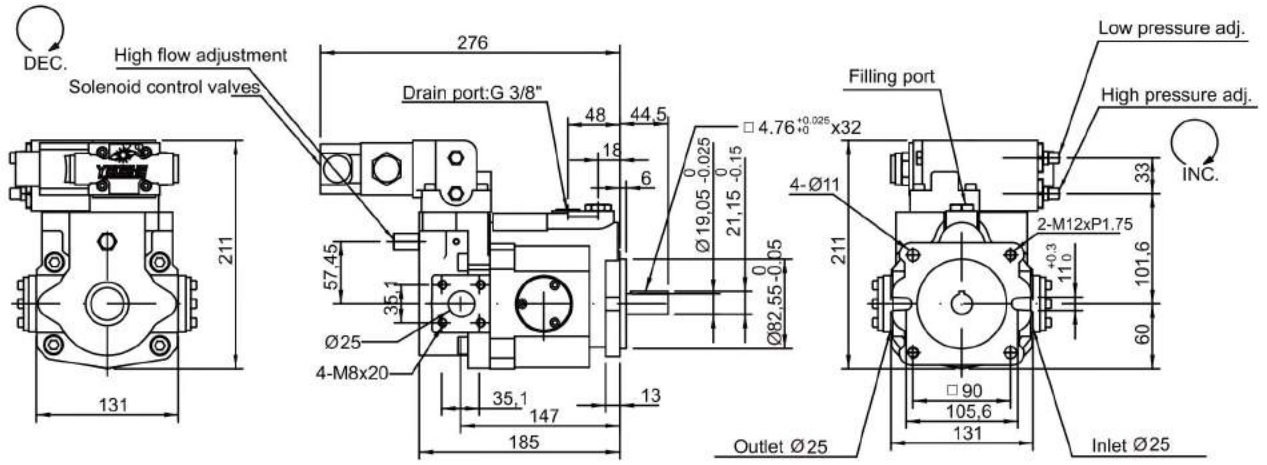
Dimension

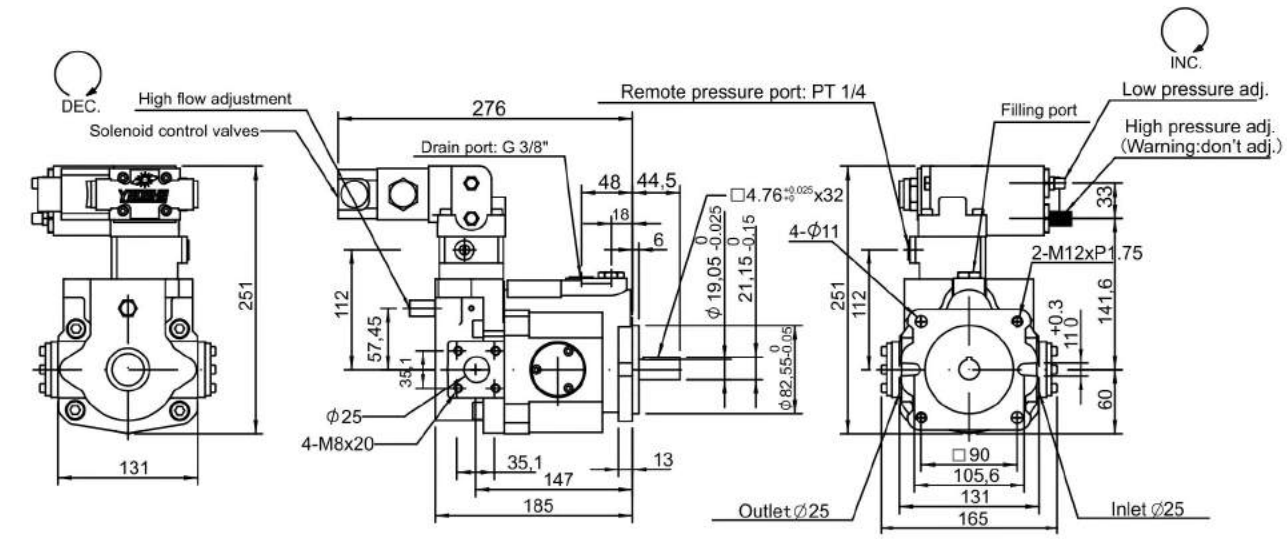
V15DG, V18DG Low tension unloading + Pressure control + Remote



V15E, V18E Electric 2-stage pressure control



V15EG, V18EG Electric 2-stage pressure control + Remote



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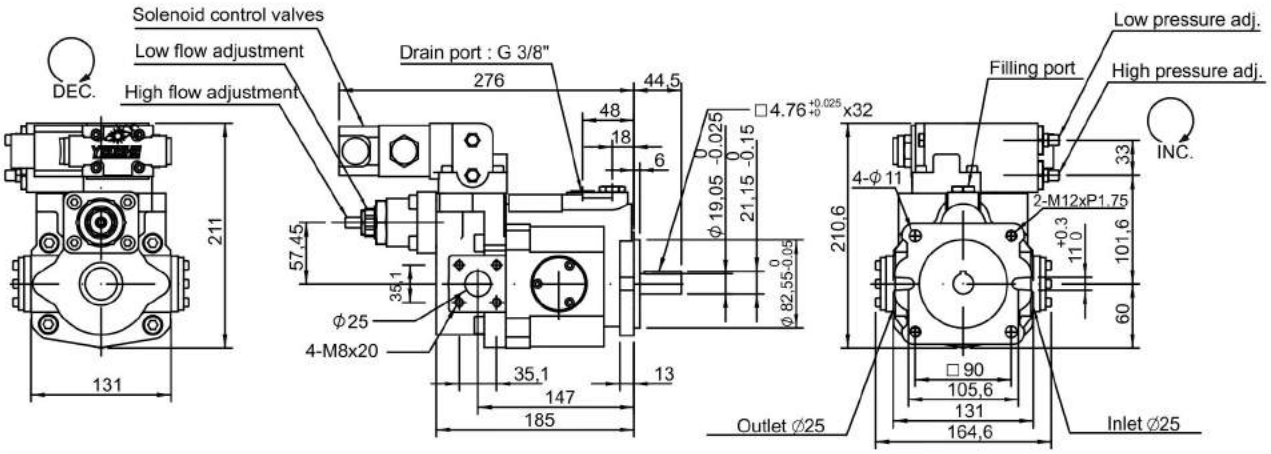
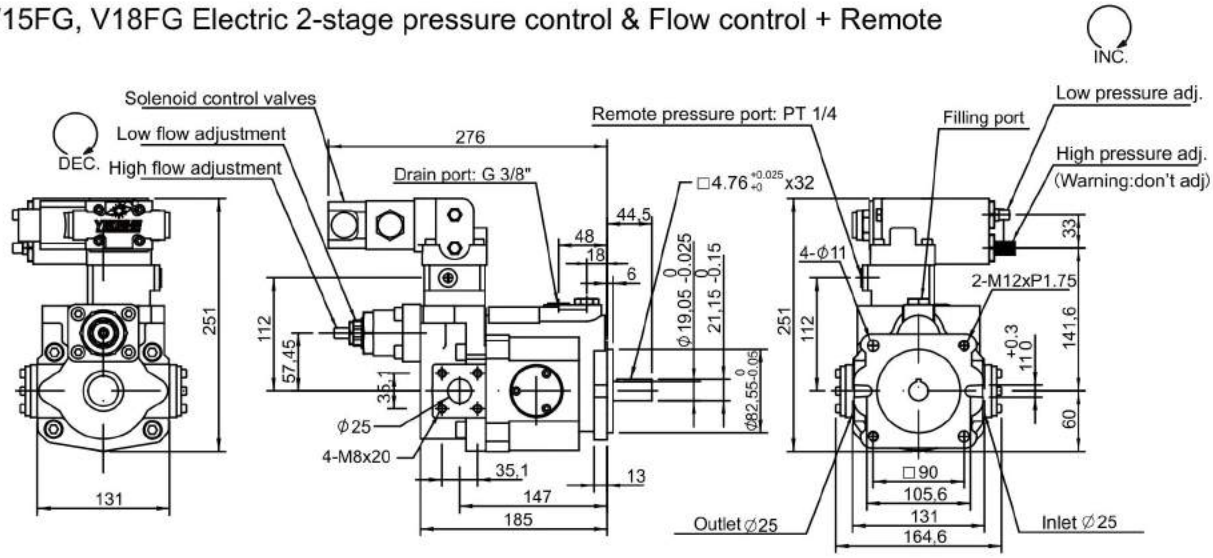
Dimension

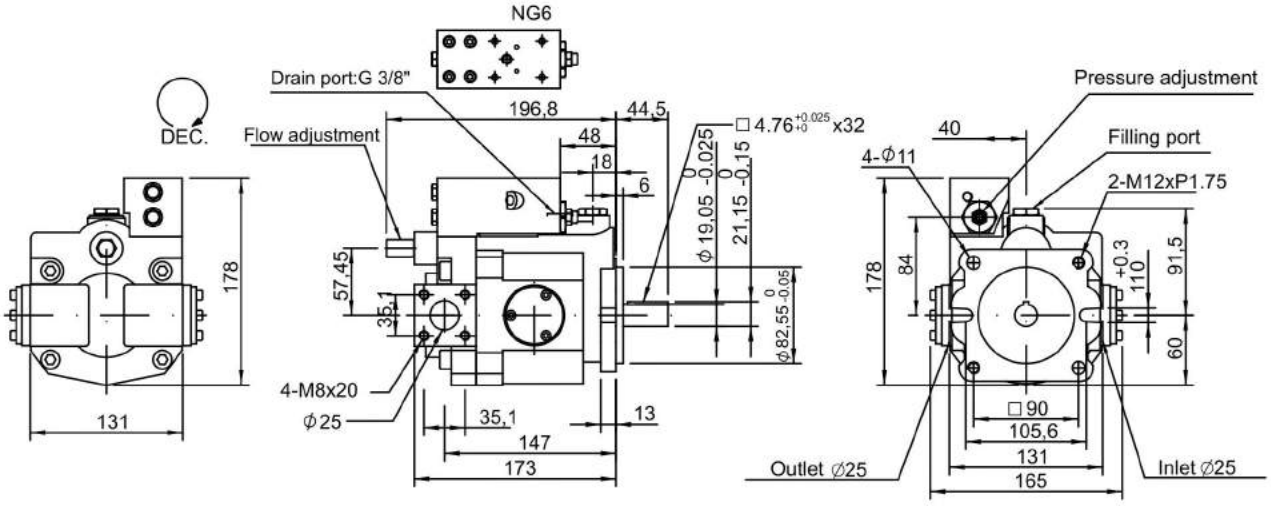
V15F, V18F Electric 2-stage pressure control & Flow control



V15FG, V18FG Electric 2-stage pressure control & Flow control + Remote



V15GM, V18GM Remote pressure compensator with NG6 interface



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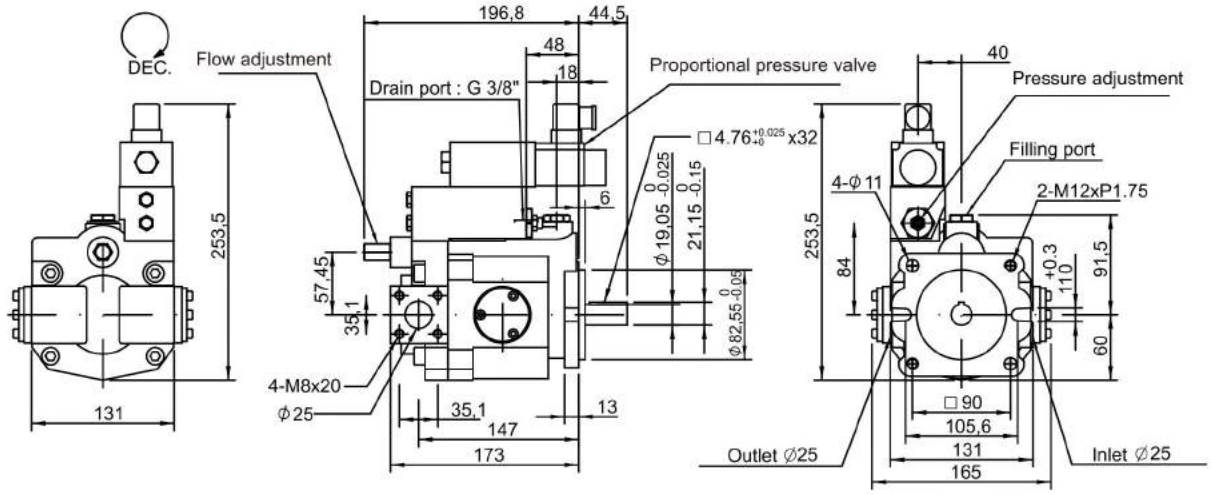
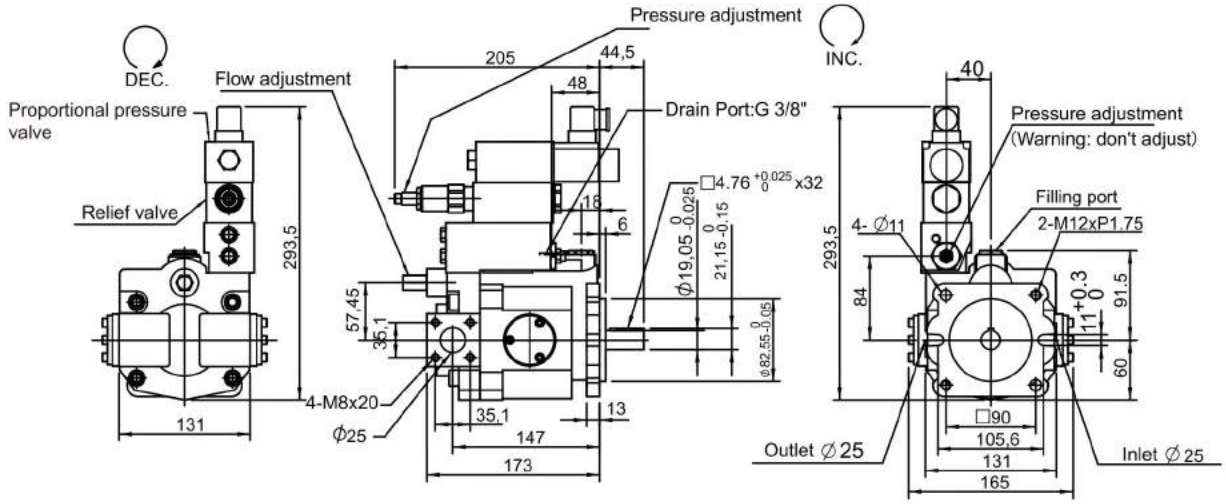
Dimension

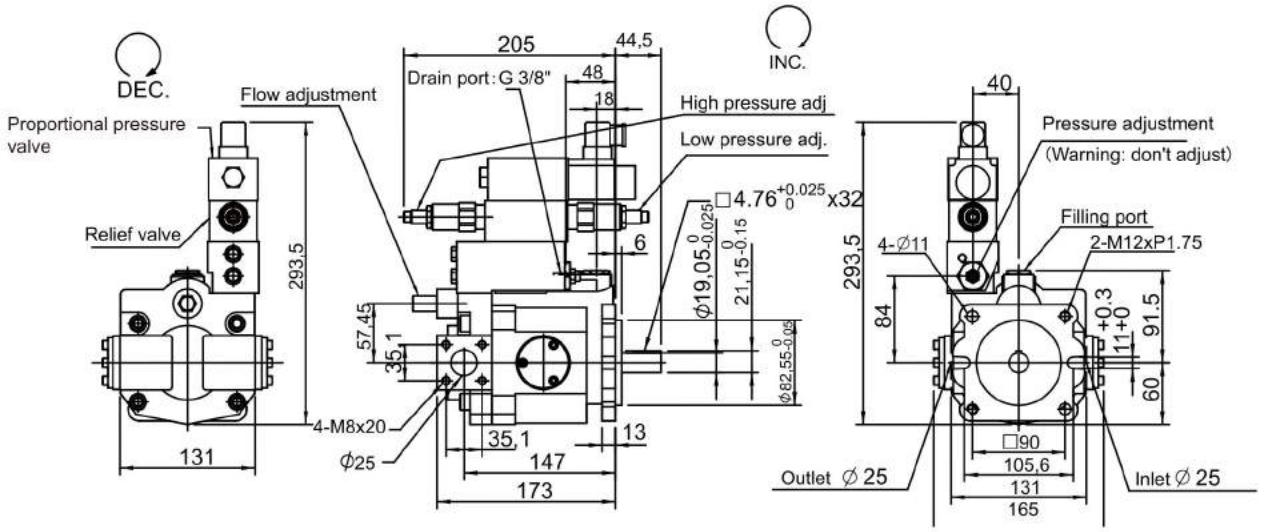
V15GJ, V18GJ Remote pressure compensator + Proportional pressure valve



V15GR, V18GR Remote pressure compensator + Electrical unloading



V15GB, V18GB Remote pressure compensator + 2-stage pressure control



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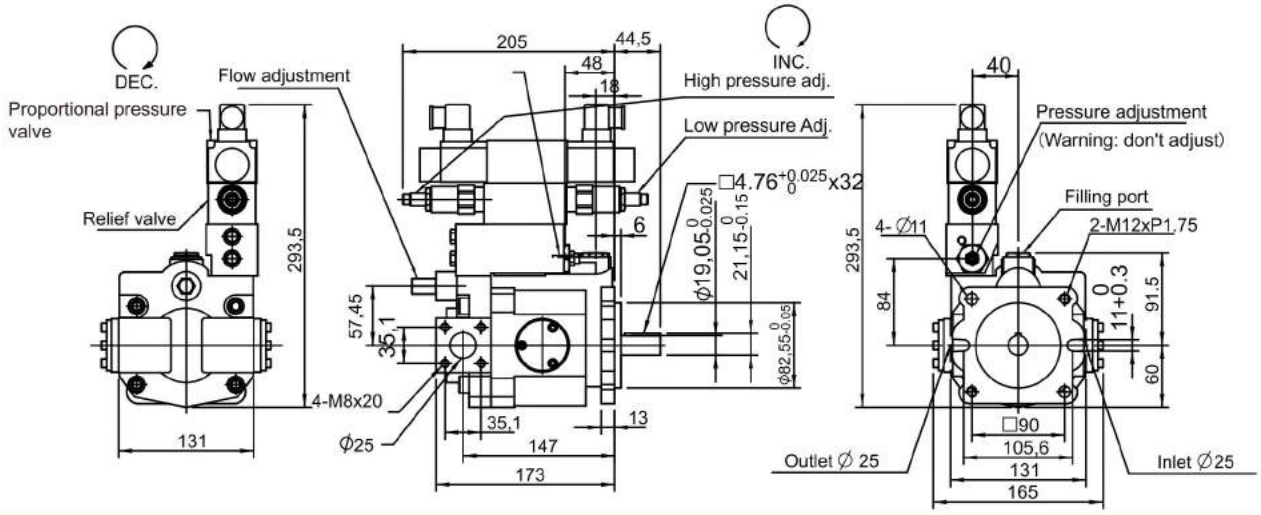
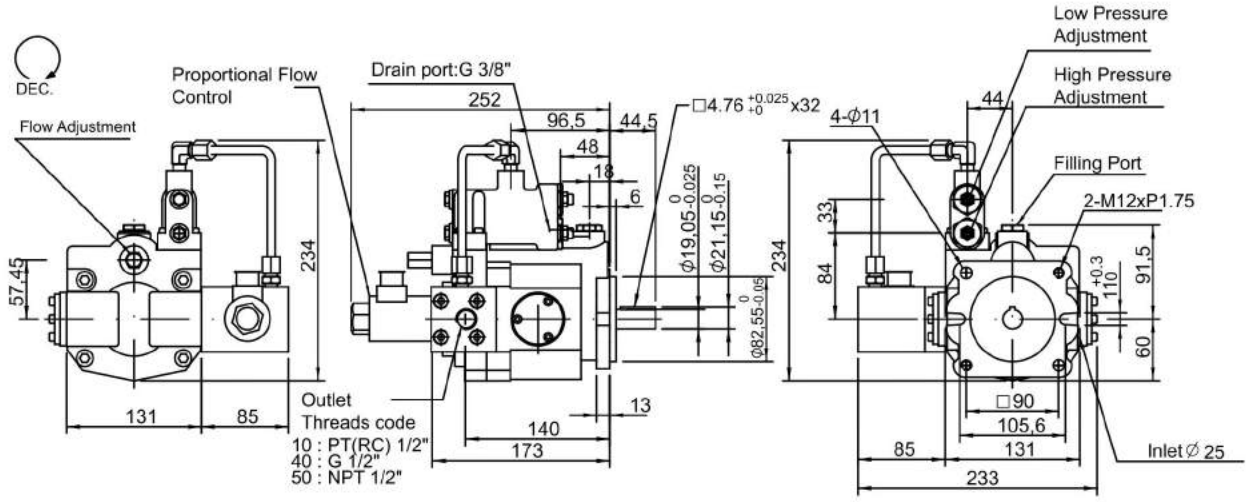
Dimension

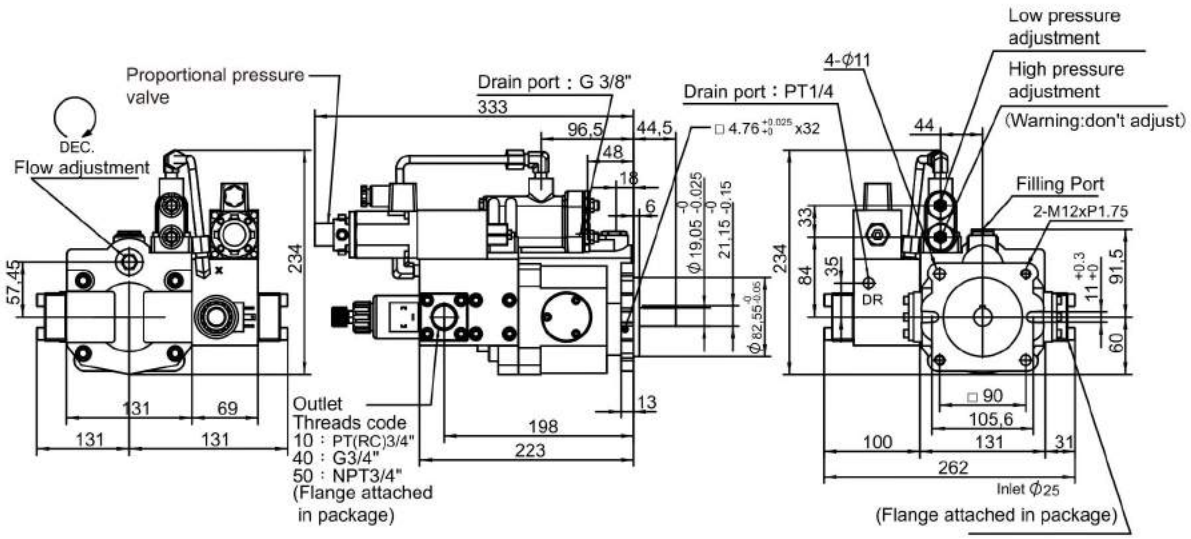
V15GC, V18GC Remote pressure compensator + Electrical unloading + 2-stage pressure control



V15HQ, V18HQ Load-sensing compensator + Proportional flow valve+ Relief valve



V15HK, V18HK Load-sensing compensator + Proportional pressure valve+ Proportional flow valve



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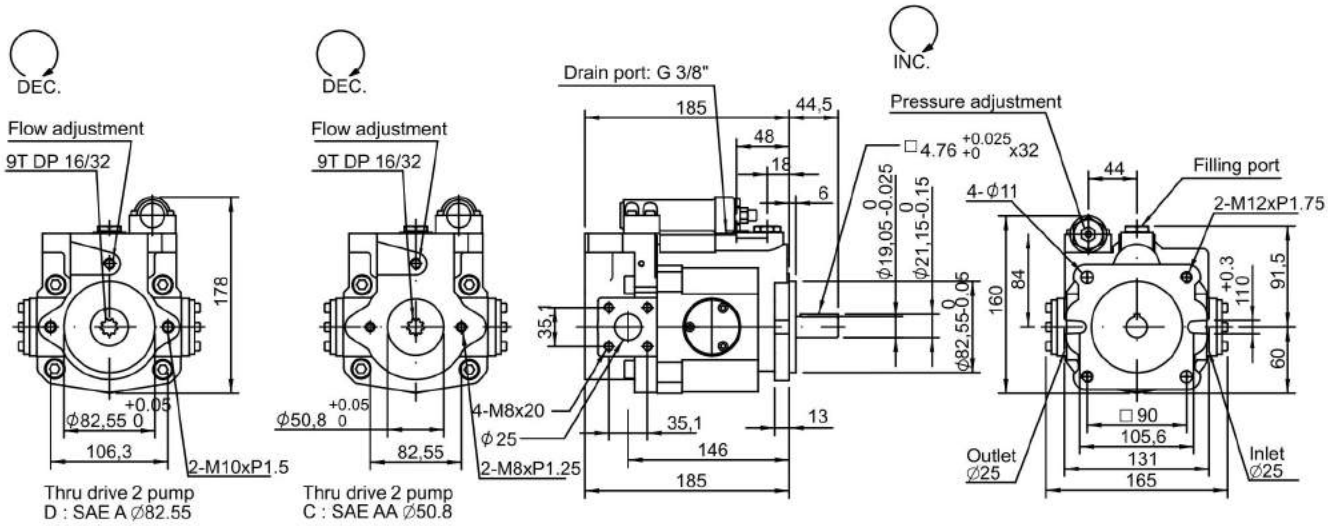
Dimension

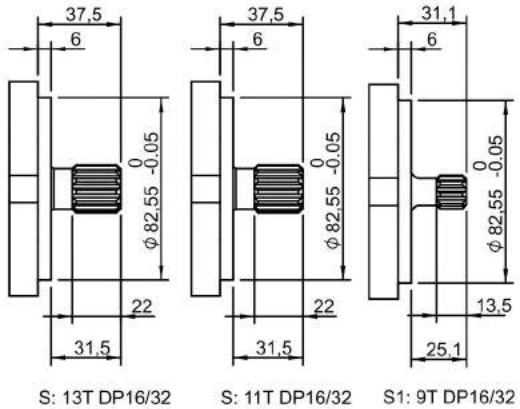
V15, V18 Thru drive (SAE AA ∅50.8, code C)
Thru drive (SAE A ∅82.55, code D)

V 15 □□□□□□ — □□ C □□
V 15 □□□□□□ — □□ D □□

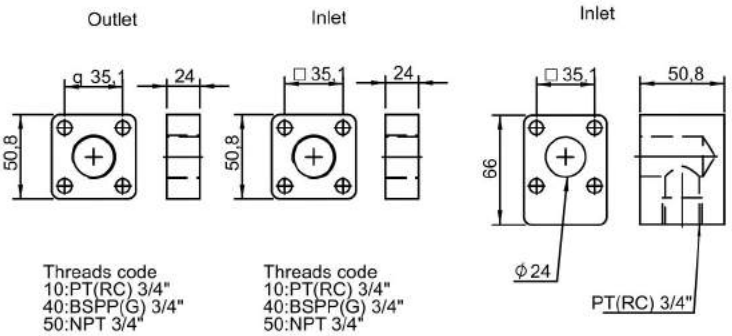


Type	A	B	C	CG	CR	D	DG	E	EG	F	FG	G	GJ	GM	HL	HK	HQ
○ Thru drive option	○					○	○	○	○			○	○	○	○	○	○

V15, V18 Splined shaft type



V15, V18 Inlet / Outlet



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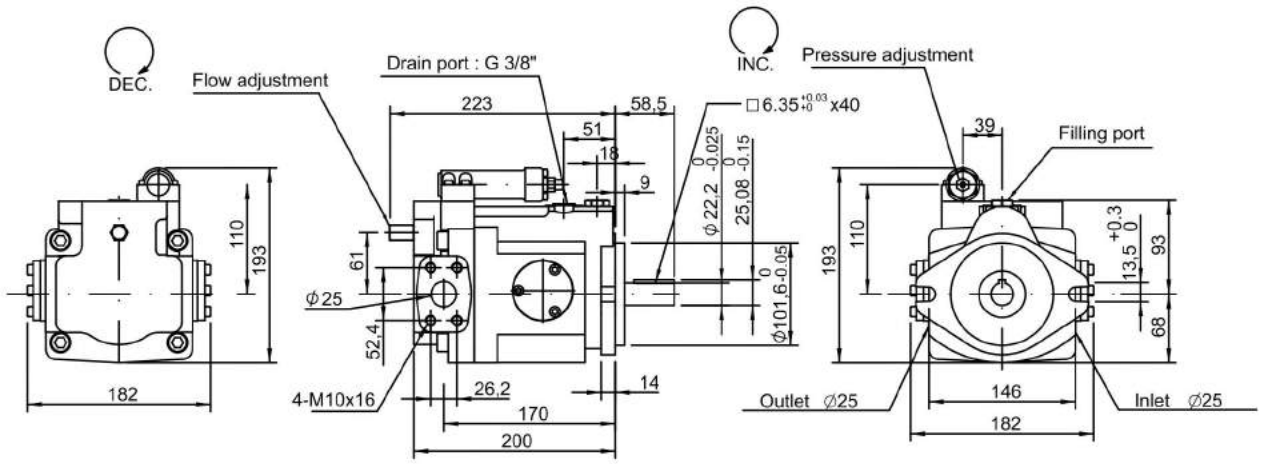
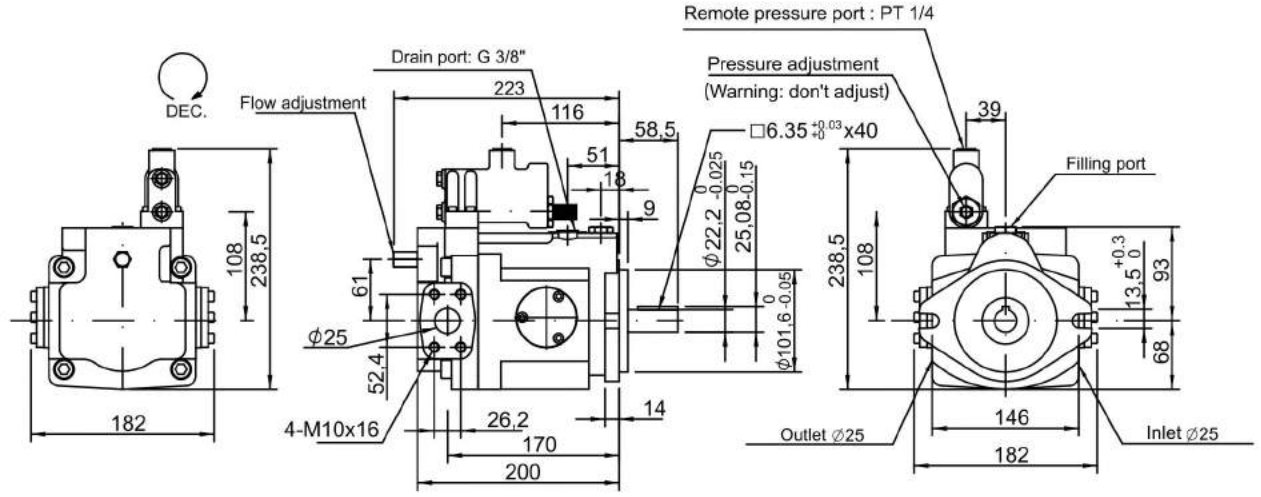
Dimension

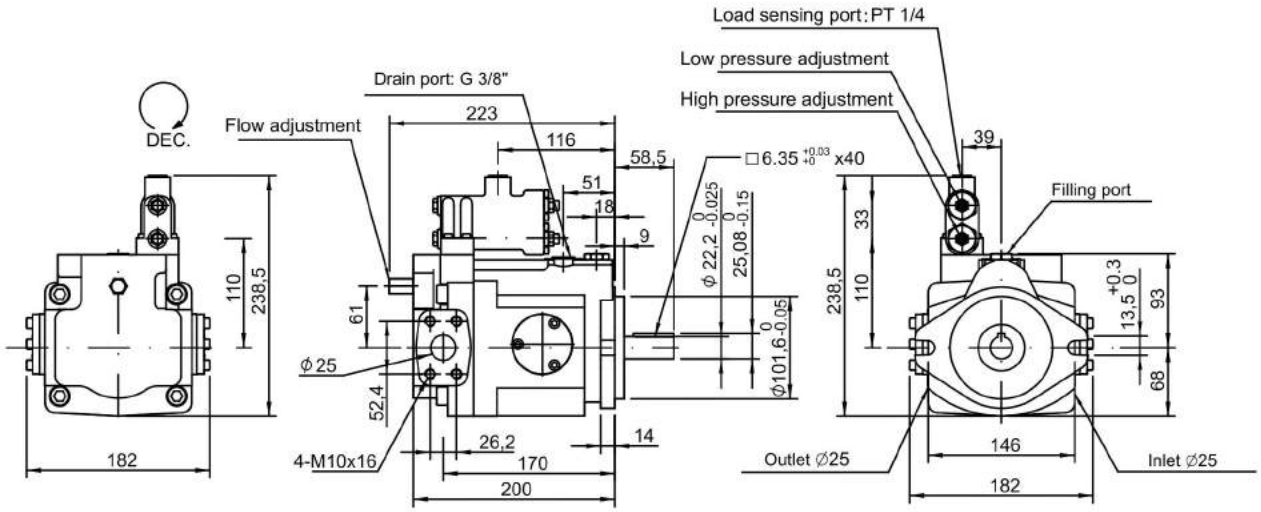
V23A, V25A Standard pressure control



V23G, V25G Remote pressure control



V23HL,V25HL Load-sensing control



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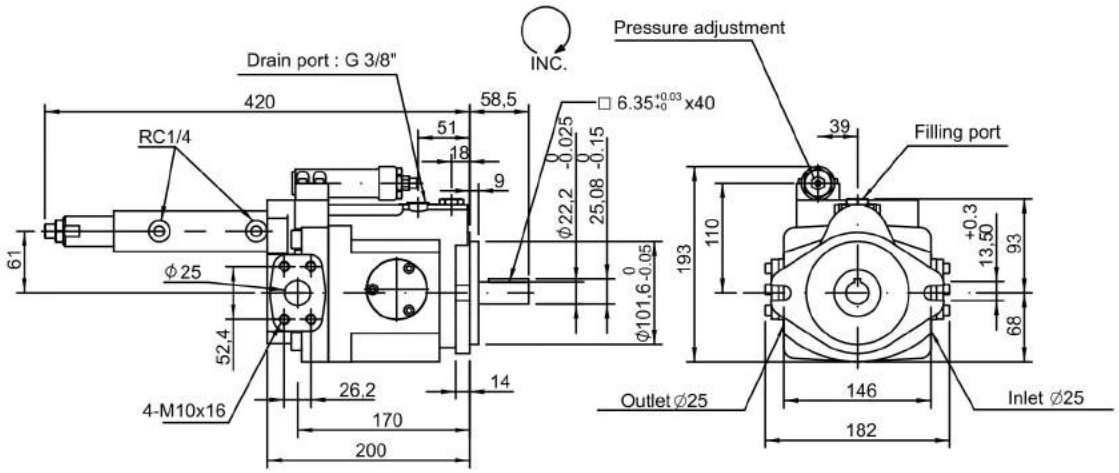
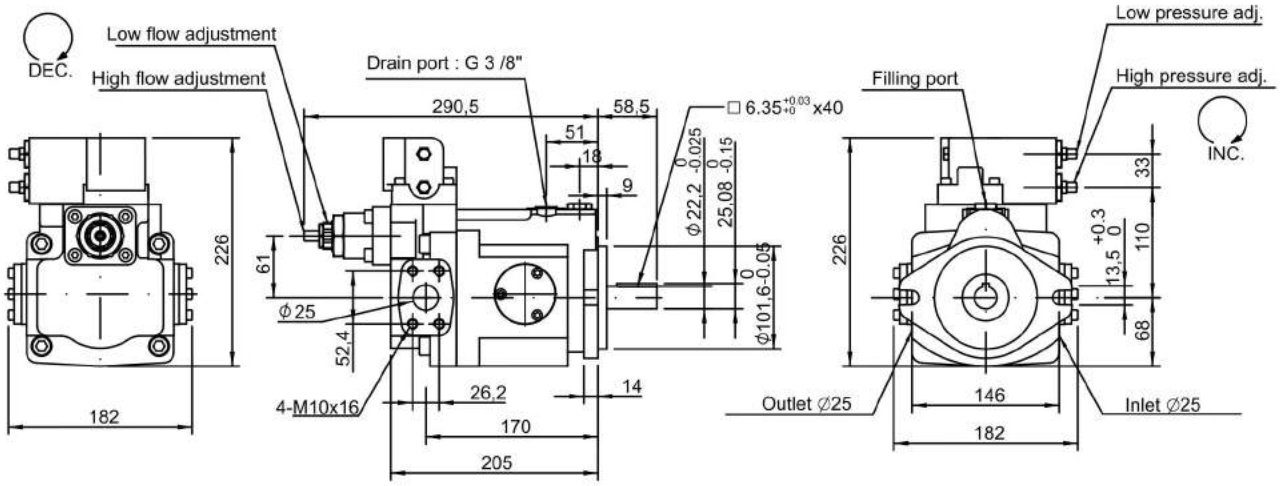
Dimension

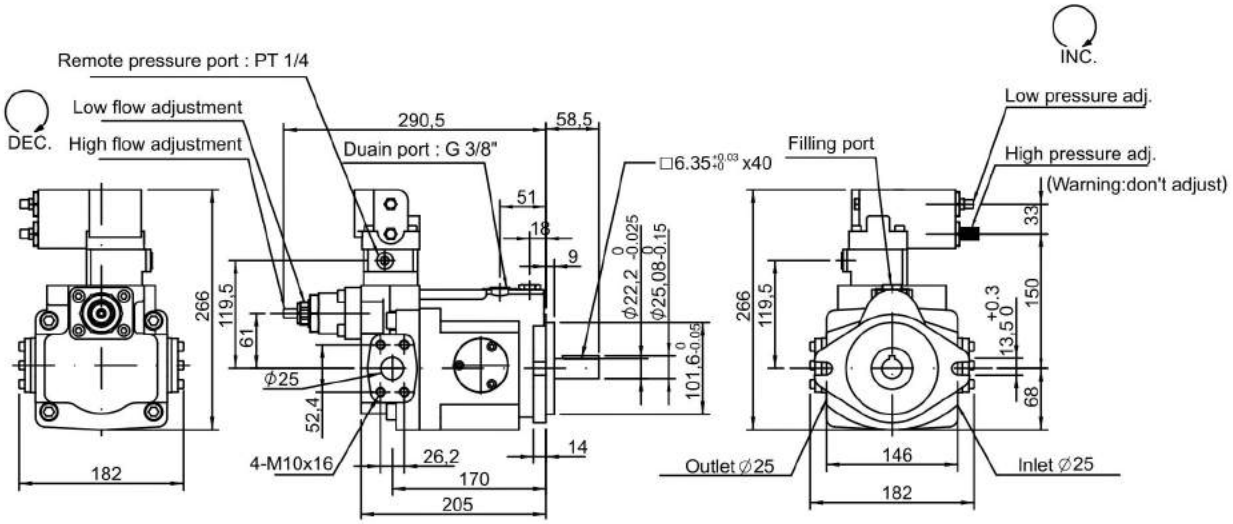
V23B, V25B Muti-stage flow & Singe-stage pressure control (with cylinder)



V23C, V25C 2-stage pressure & Flow control



V23CG, V25CG 2-stage pressure & Flow control + Remote



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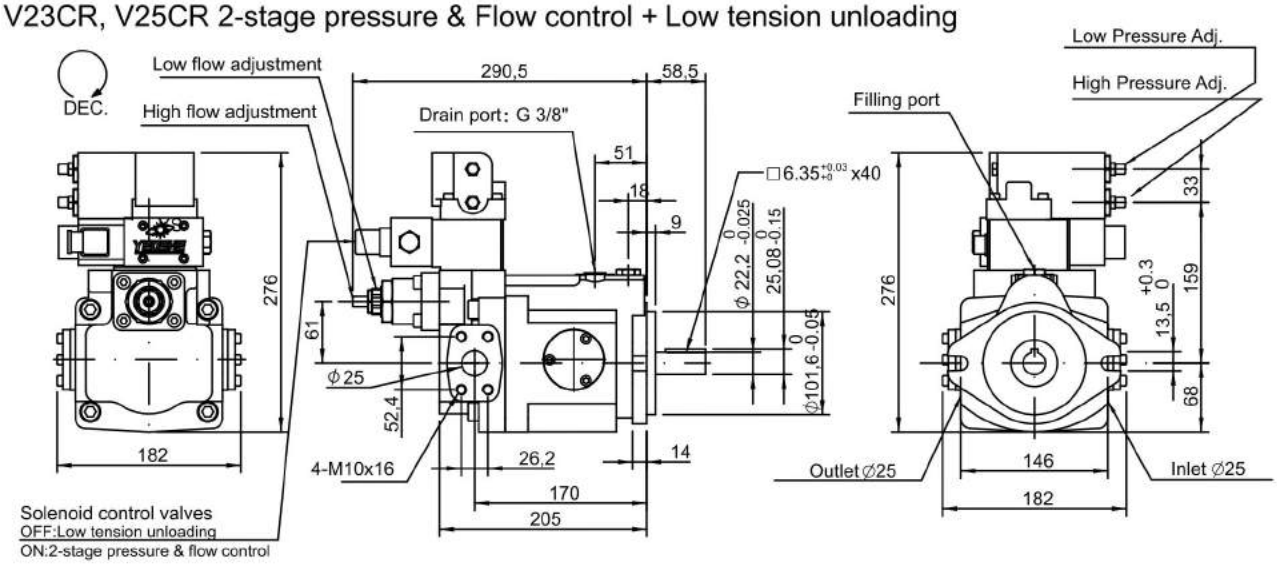
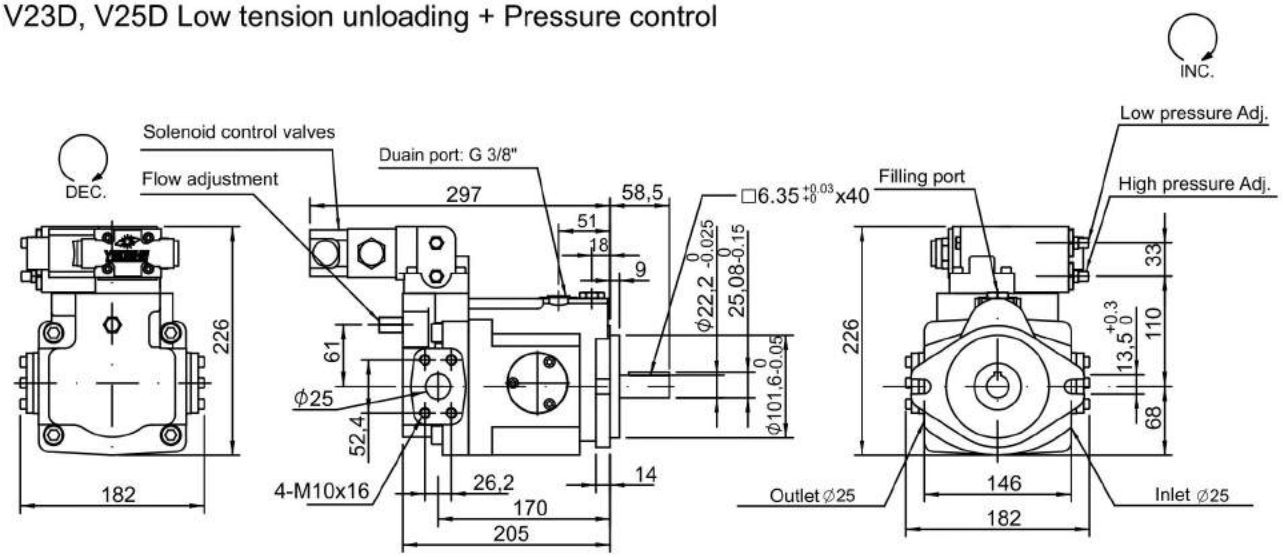
Dimension

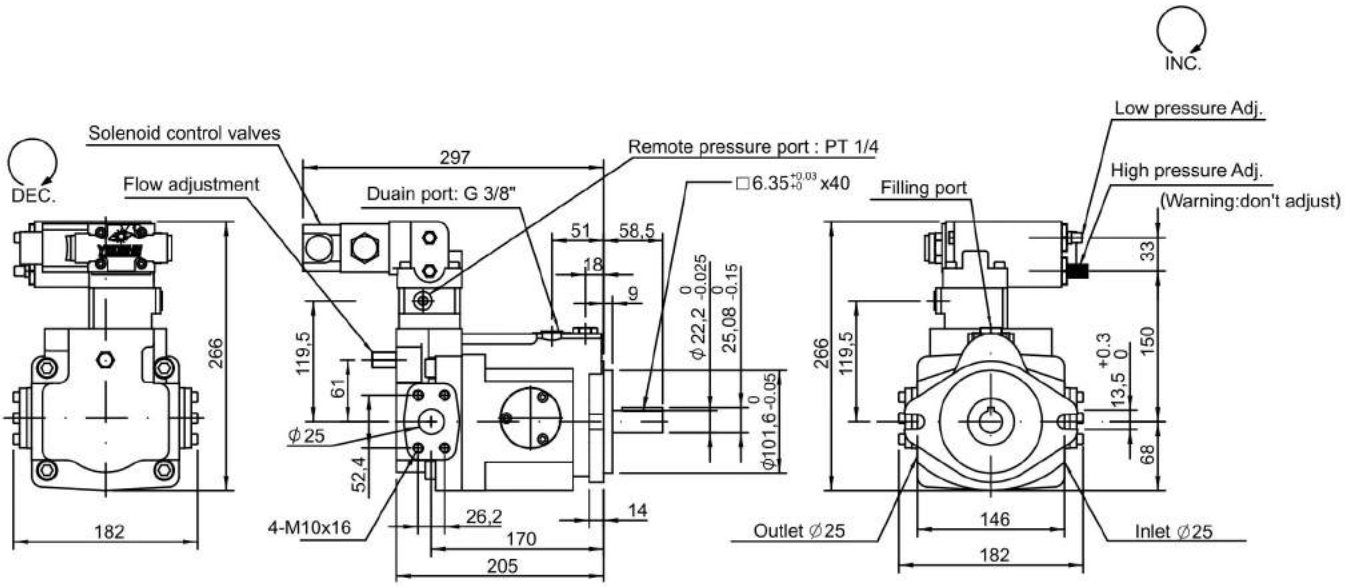
V23CR, V25CR 2-stage pressure & Flow control + Low tension unloading



V23D, V25D Low tension unloading + Pressure control



V23DG, V25DG Low tension unloading + Pressure control + Remote



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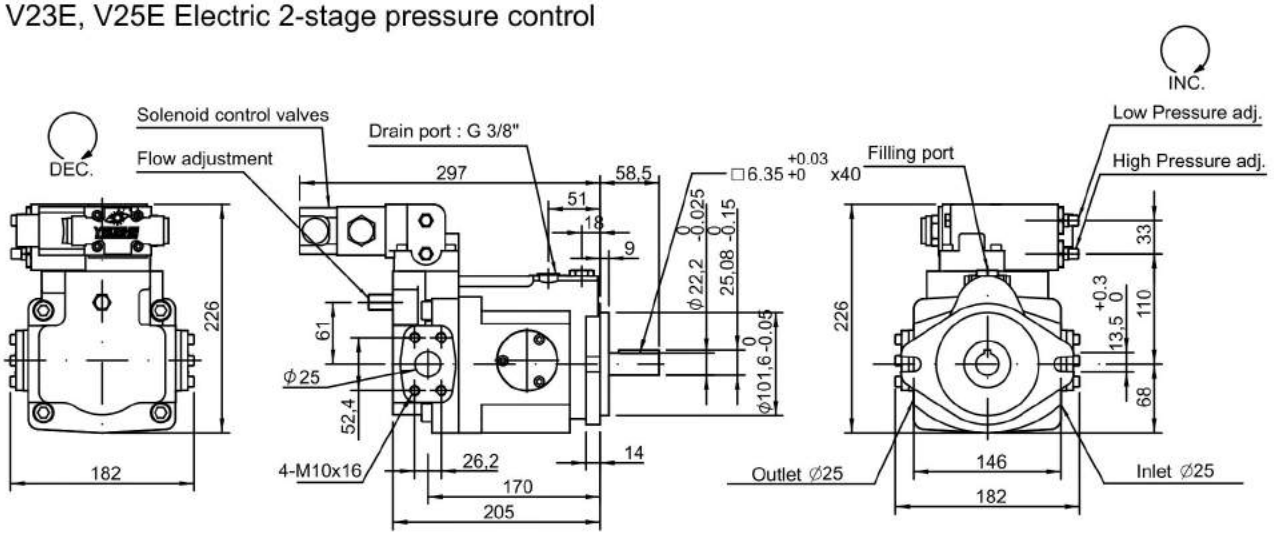
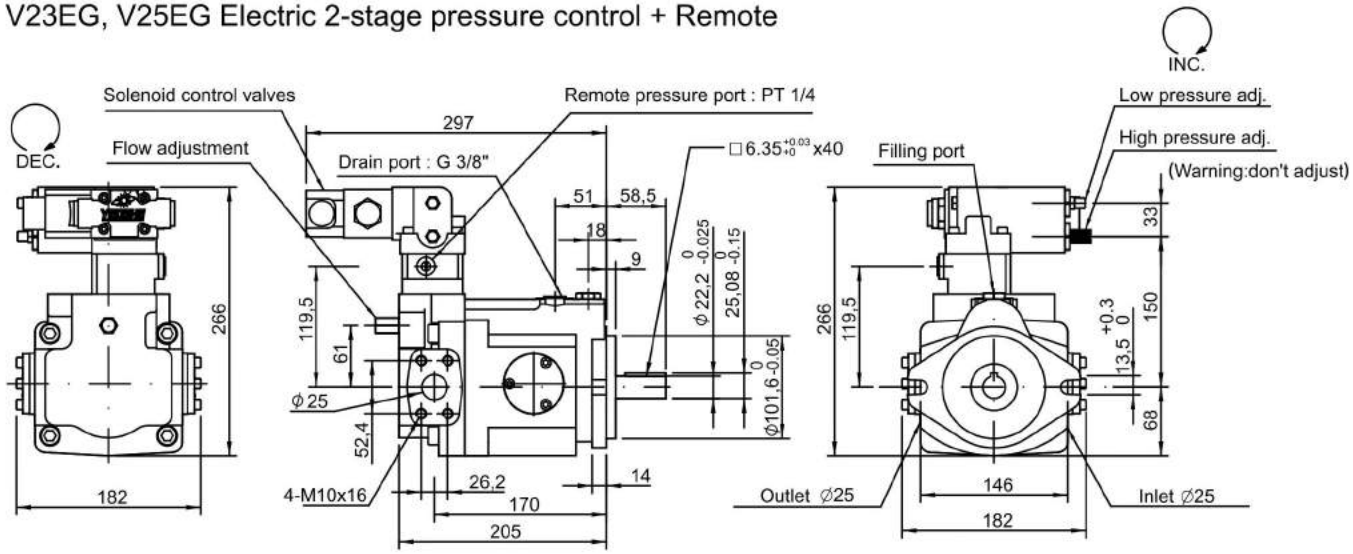
Dimension

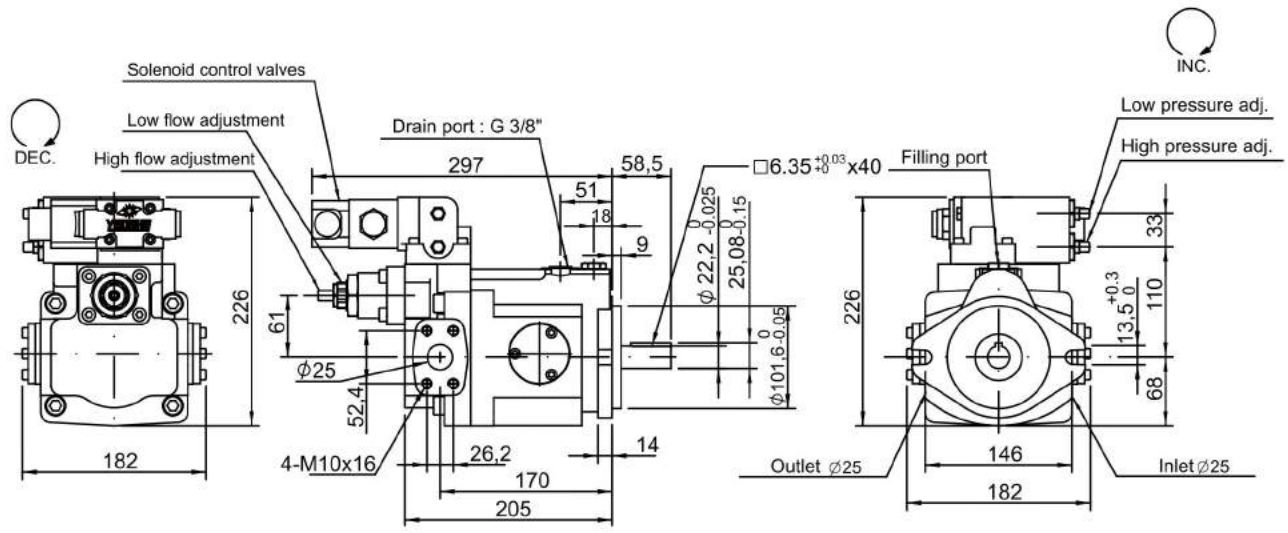
V23E, V25E Electric 2-stage pressure control



V23EG, V25EG Electric 2-stage pressure control + Remote



V23F, V25F Electric 2-stage pressure control & Flow control



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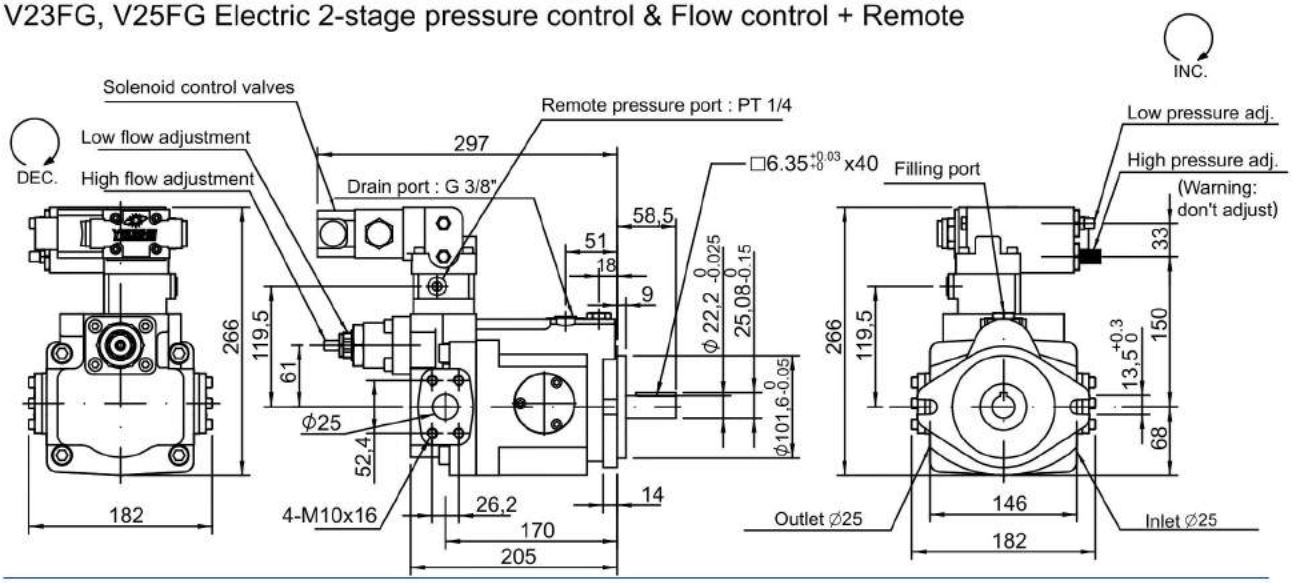
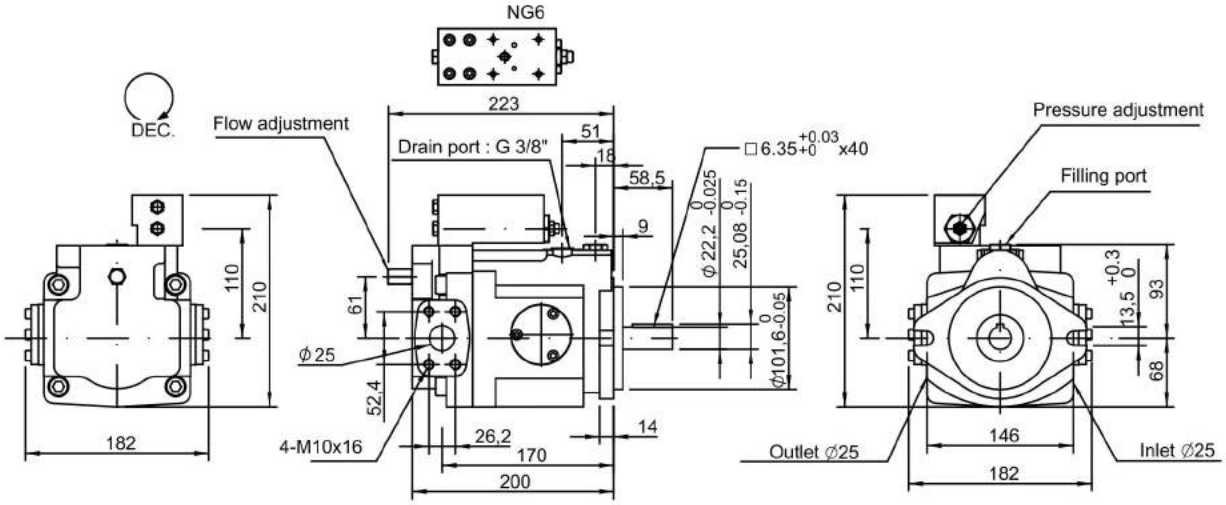
Dimension

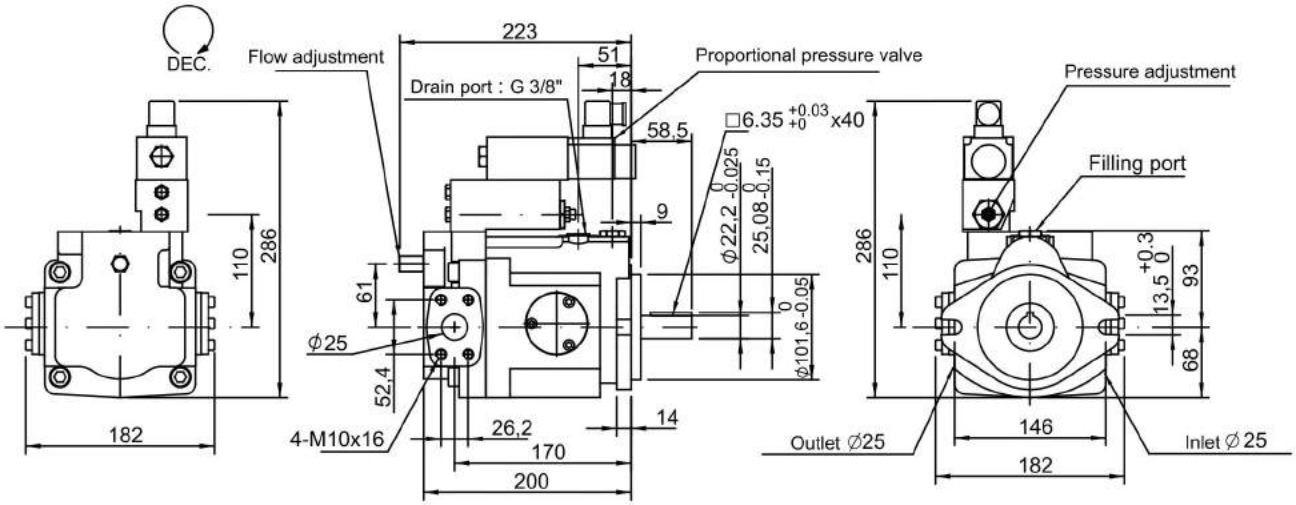
V23FG, V25FG Electric 2-stage pressure control & Flow control + Remote



V23GM, V25GM Remote pressure compensator with NG6 interface



V23GJ, V25GJ Remote pressure compensator + Proportional pressure valve



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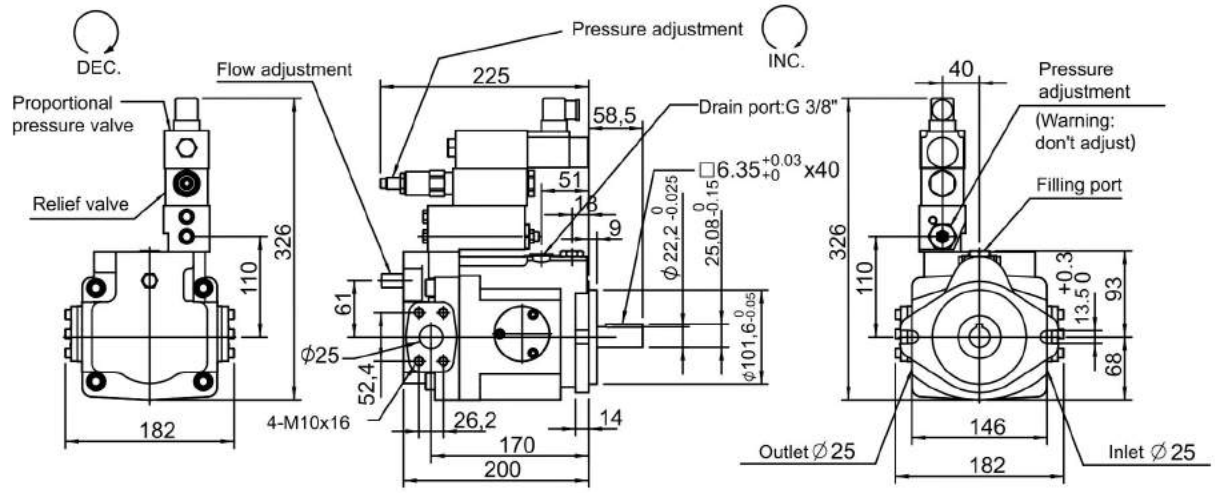
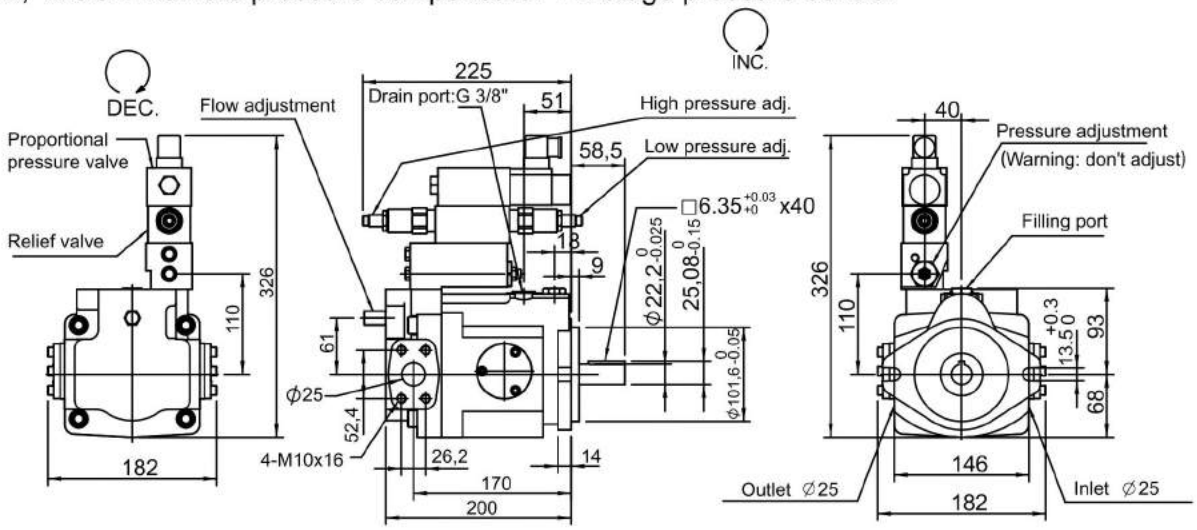
Dimension

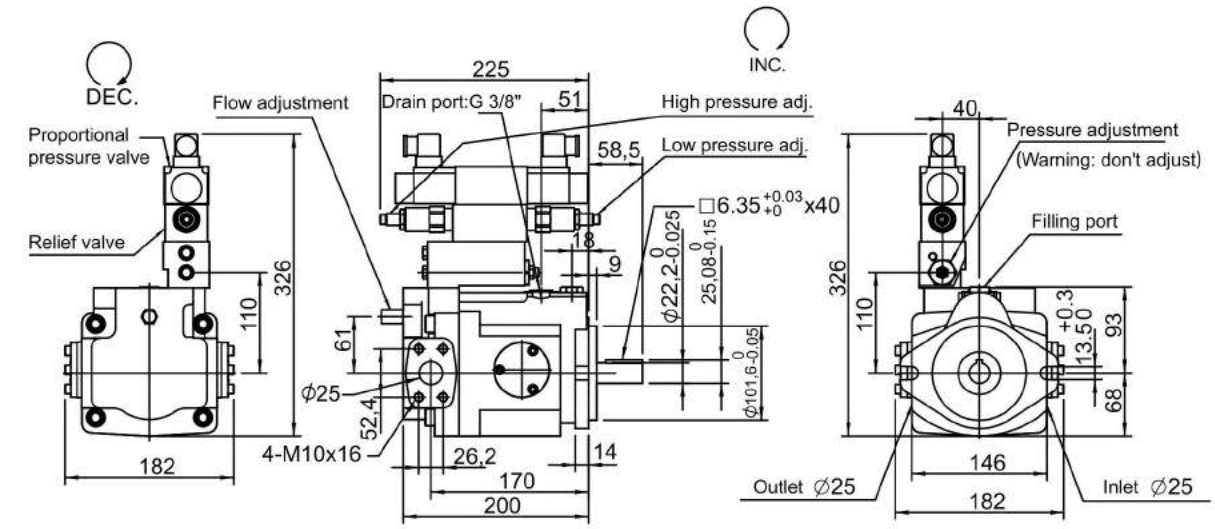
V23GR, V25GR Remote pressure compensator + Electrical unloading



V23GB, V25GB Remote pressure compensator + 2-stage pressure control



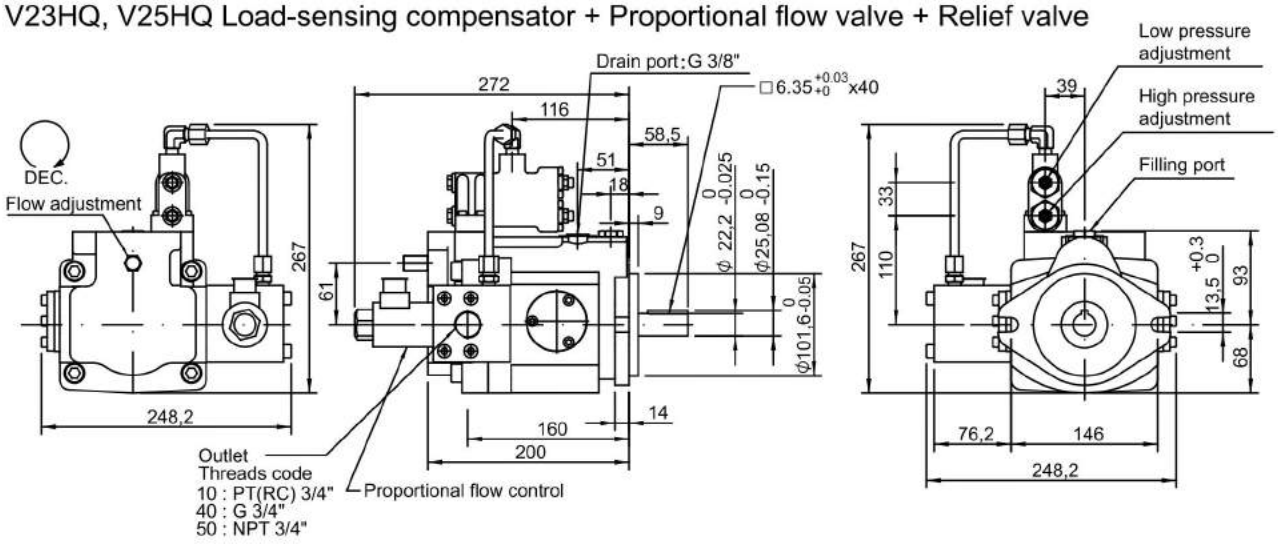
V23GC, V25GC Remote pressure compensator + Electrical unloading + 2-stage pressure control



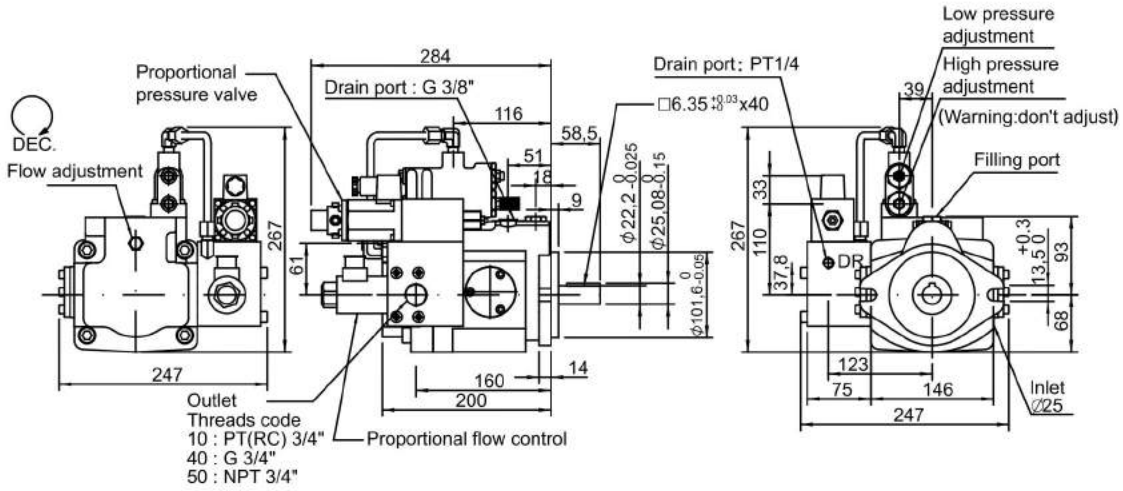
YEOSHE

Dimension

V23HQ, V25HQ Load-sensing compensator + Proportional flow valve + Relief valve



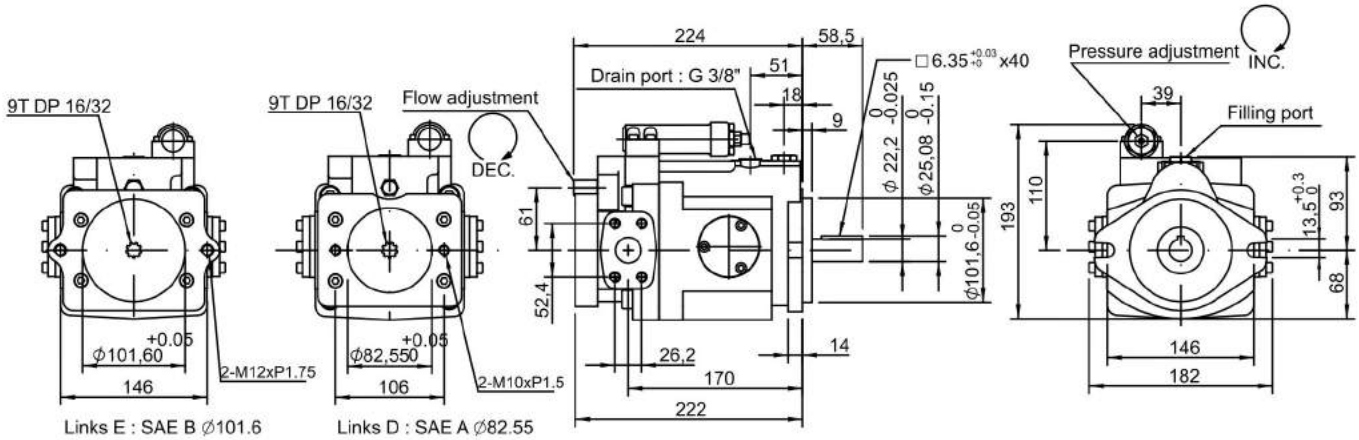
V23HK, V25HK Load-sensing compensator + Proportional pressure valve + Proportional flow valve



V23, V25 Thru drive(SAE A ∅82.55, code D)
Thru drive(SAE B ∅101.6, code E)

V	23						—			D		
V	23						—			E		

Type	A	B	C	CG	CR	D	DG	E	EG	F	FG	G	GJ	GM	HL	HK	HQ
○ Thru drive option	○					○	○	○	○			○	○	○	○	○	○



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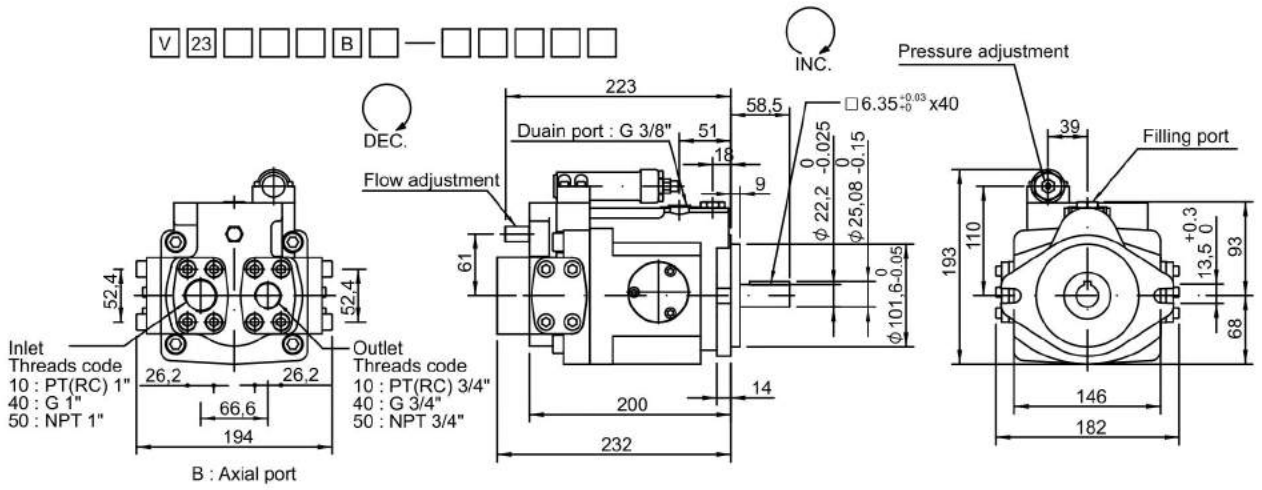
Dimension

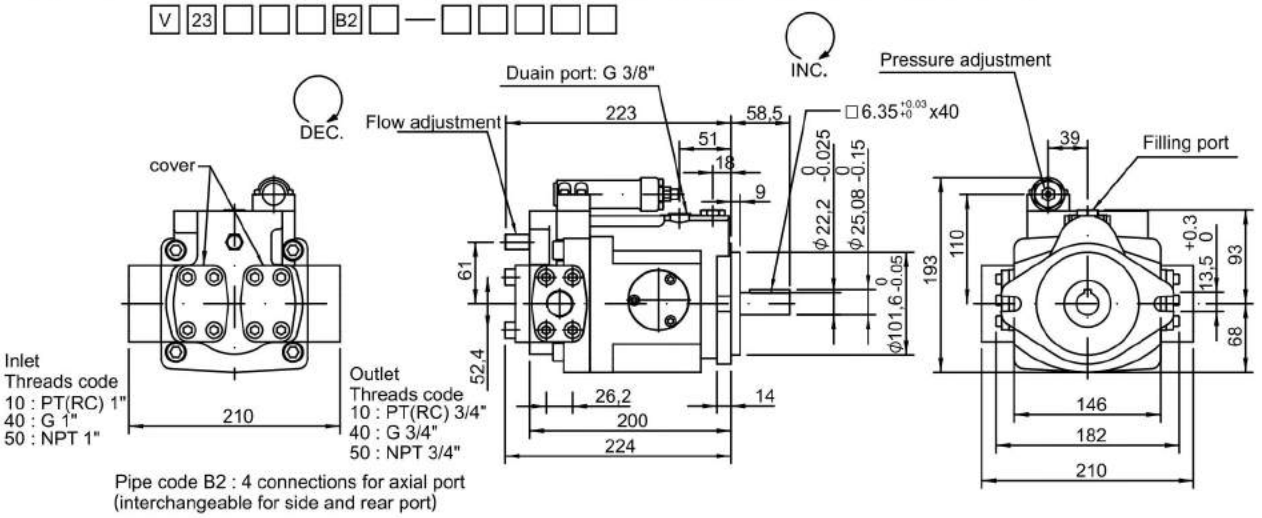
V23, V25 Rear port (Please flowing order code no.6,add“B”)

V 23 □□□B□—□□□□□



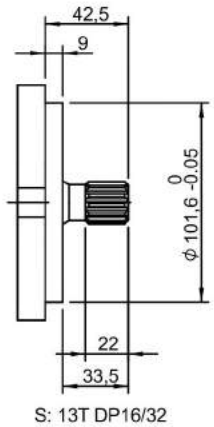
V23, V25 4 Connections for rear port (Please flowing order code no.6,add“B2”)

V 23 □□□B2□—□□□□□



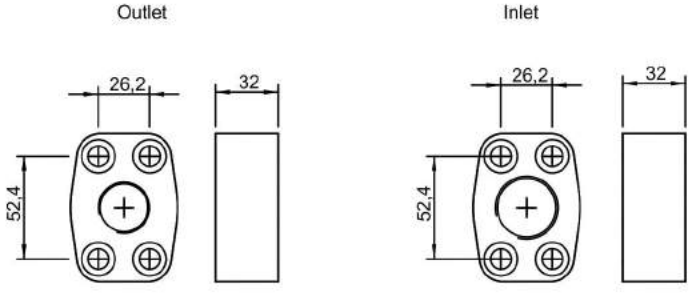
Type	A	B	C	CG	D	DG	E	EG	F	FG	G	GJ	GM	HL	HK	HQ
○ Axial port option	○	○									○	○	○	○		

V23, V25 Splined shaft type



S: 13T DP16/32

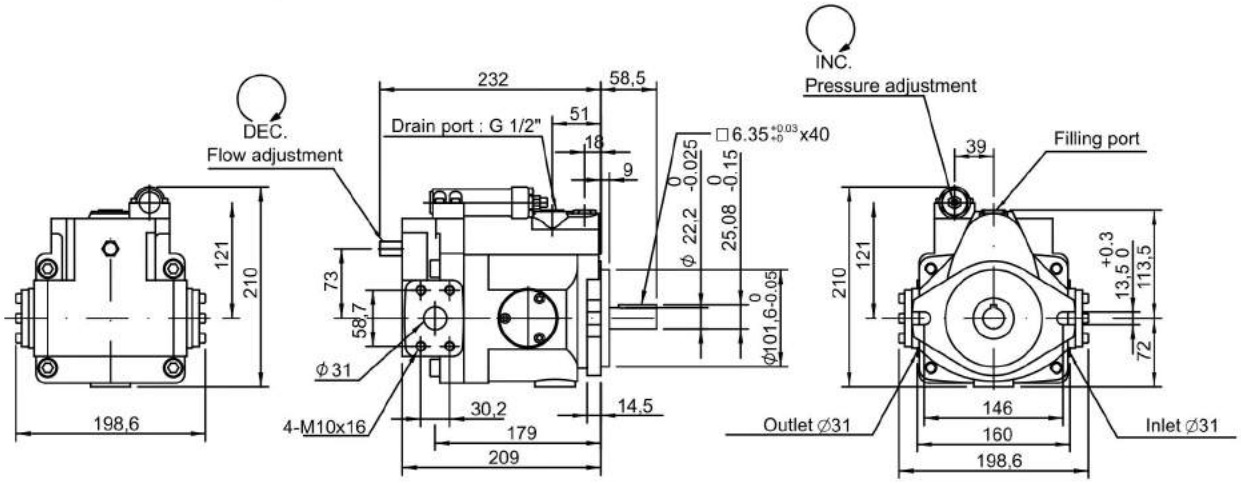
V23, V25 Inlet / Outlet



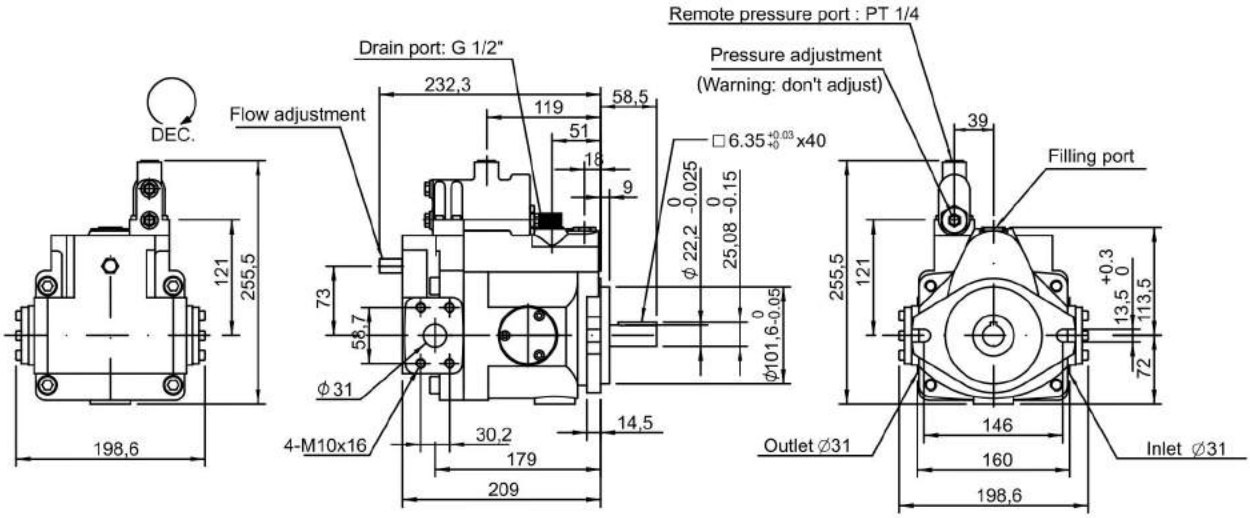
YEOSHE

Dimension

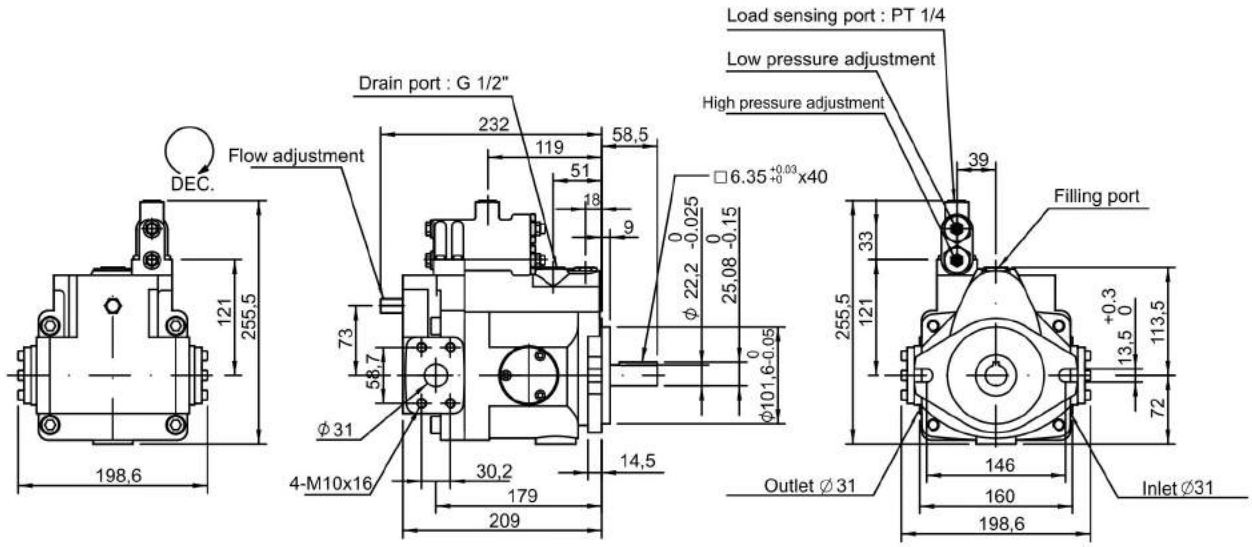
V38A, V42A Standard pressure control



V38G, V42G Remote pressure control



V38HL, V42HL Load-sensing control



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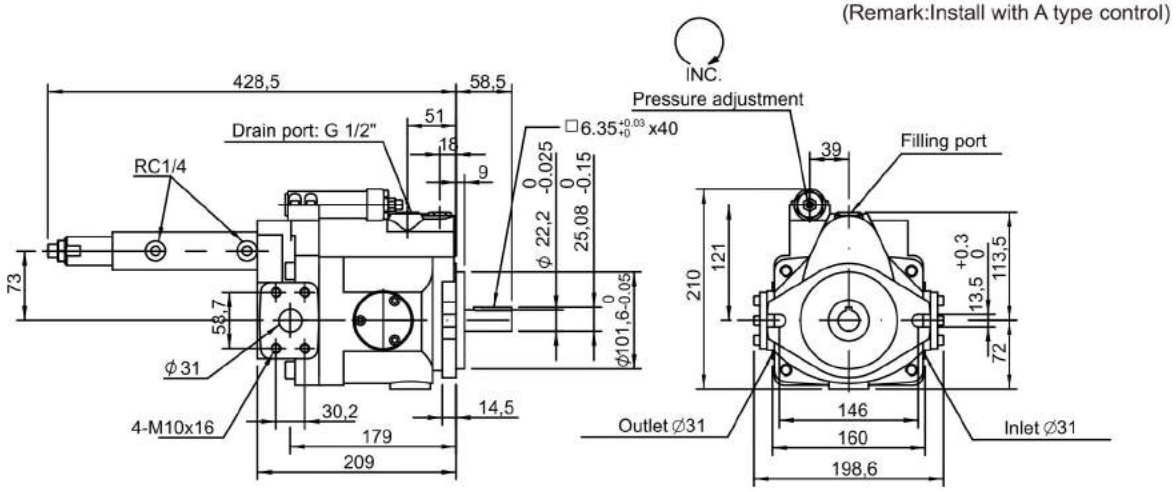
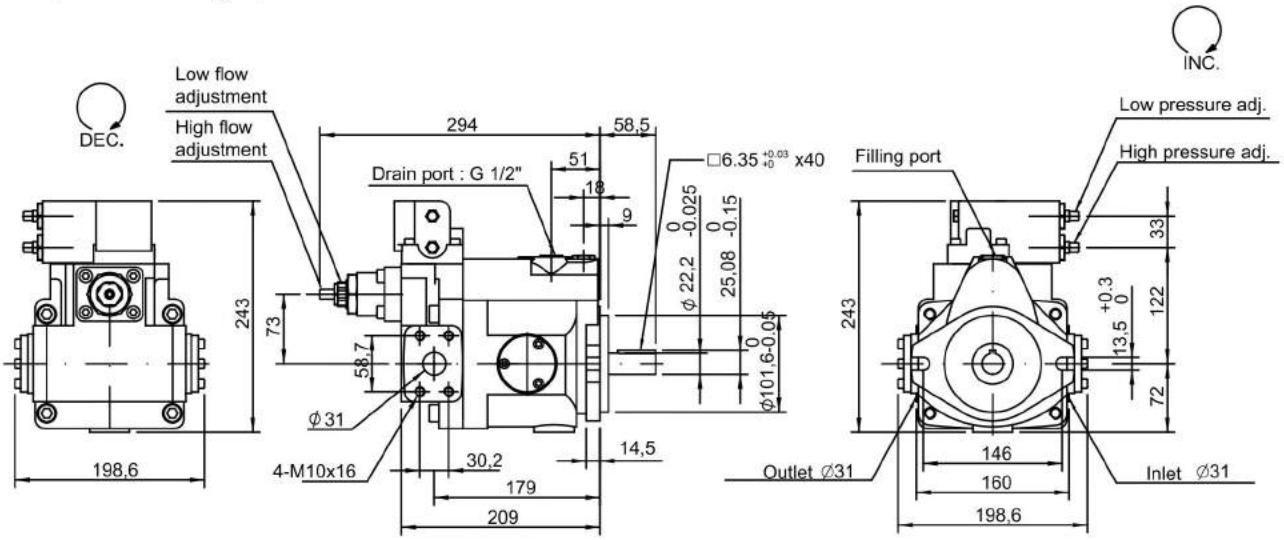
Dimension

V38B, V42B Muti-stage flow & Singe-stage pressure control (with cylinder)

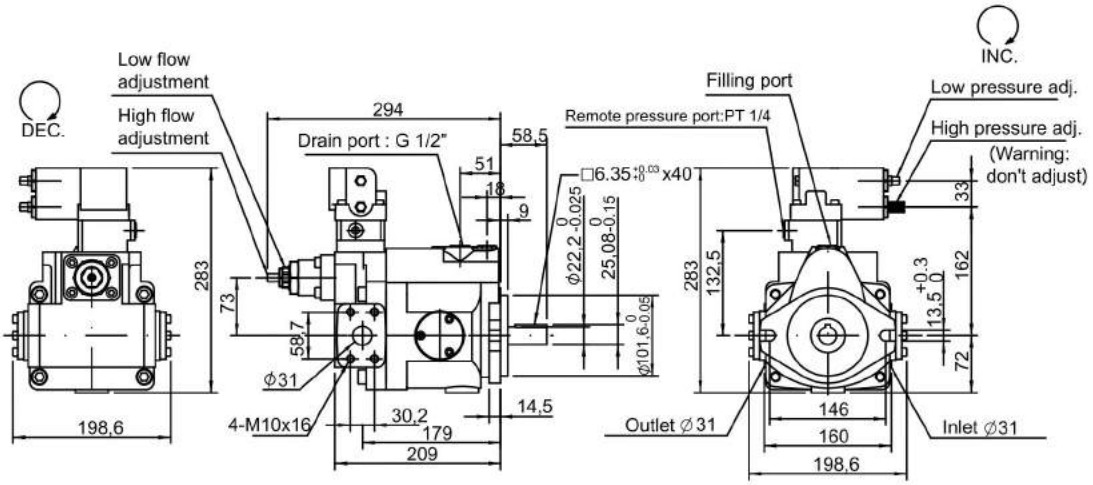
(Remark:Install with A type control)



V38C, V42C 2-stage pressure & Flow control



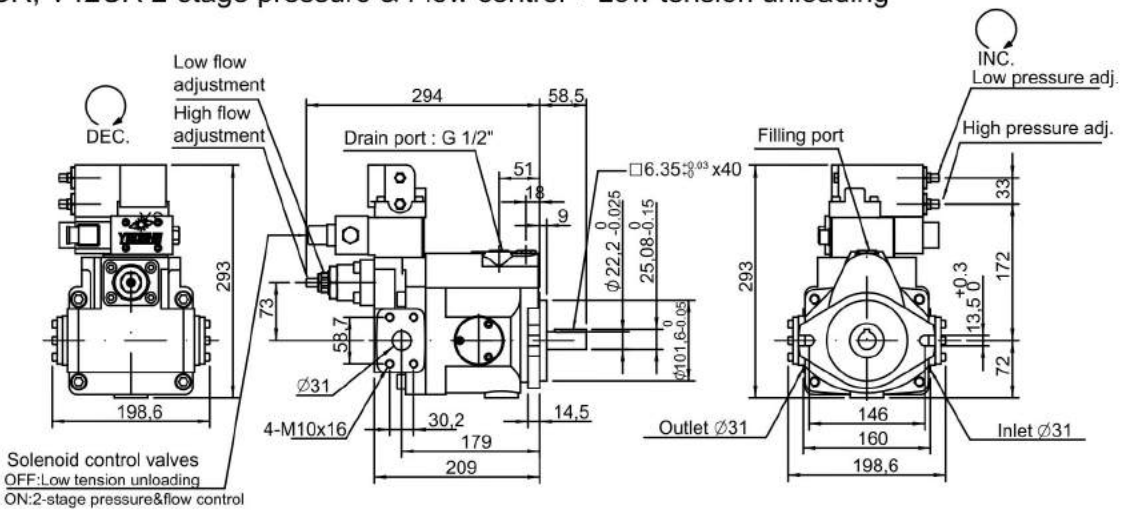
V38CG, V42CG 2-stage pressure & Flow control + Remote



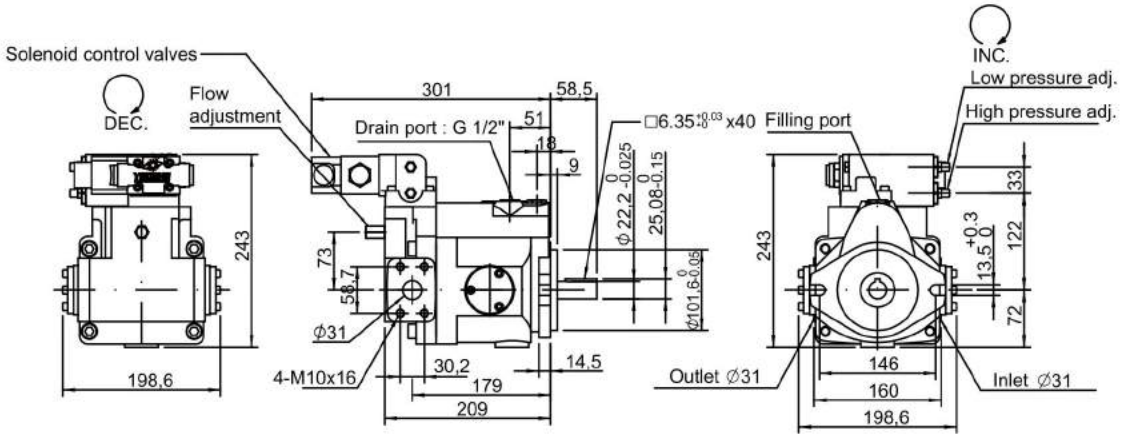
YEOSHE

Dimension

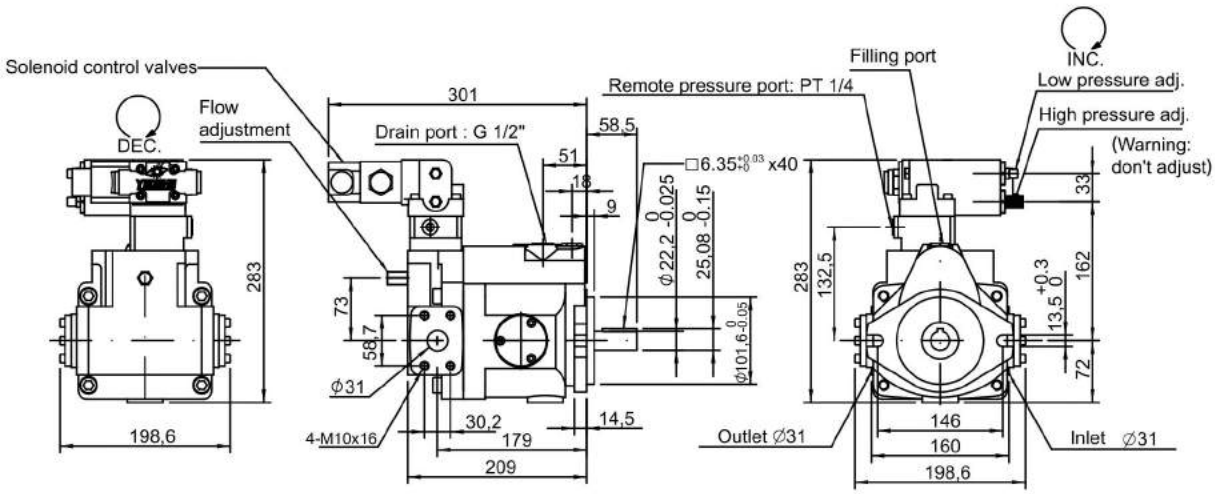
V38CR, V42CR 2-stage pressure & Flow control + Low tension unloading



V38D, V42D Low tension unloading + Pressure control



V38DG, V42DG Low tension unloading + Pressure control + Remote



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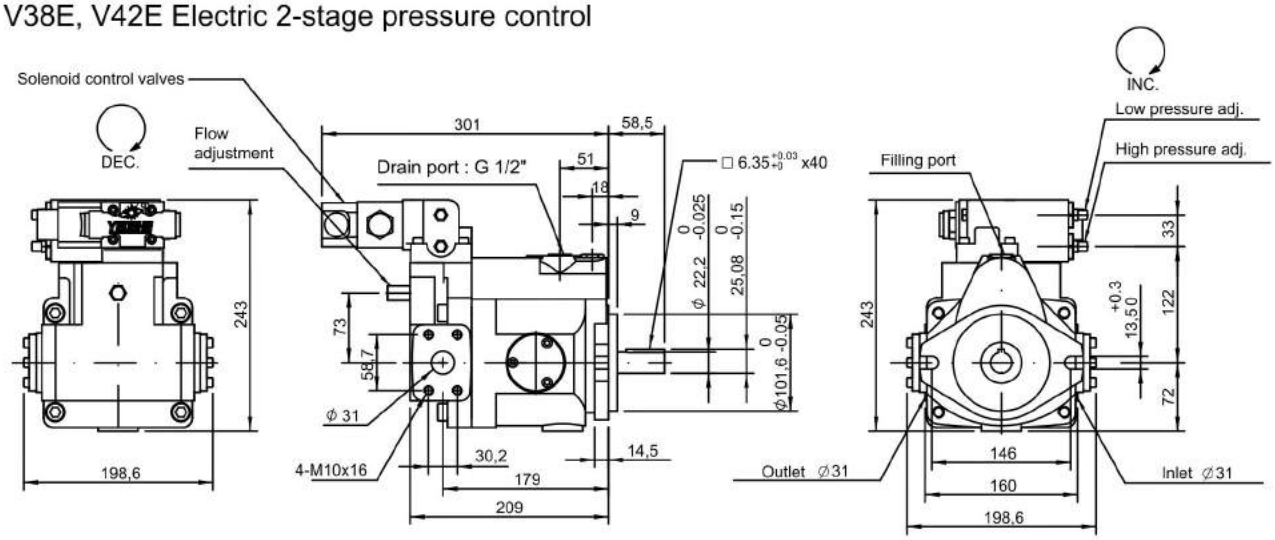
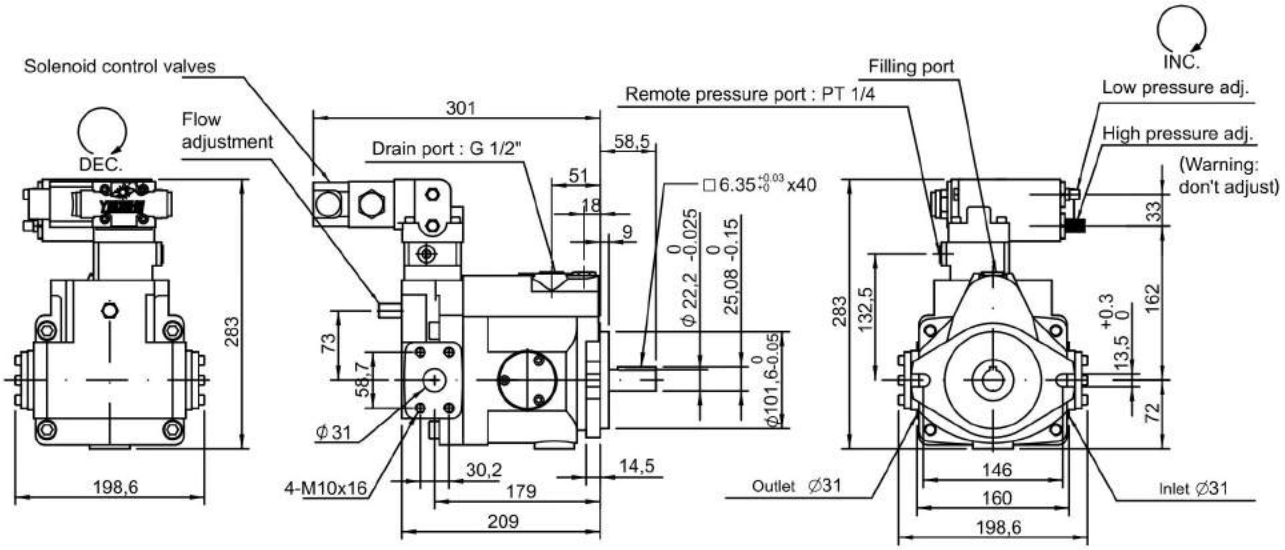
Dimension

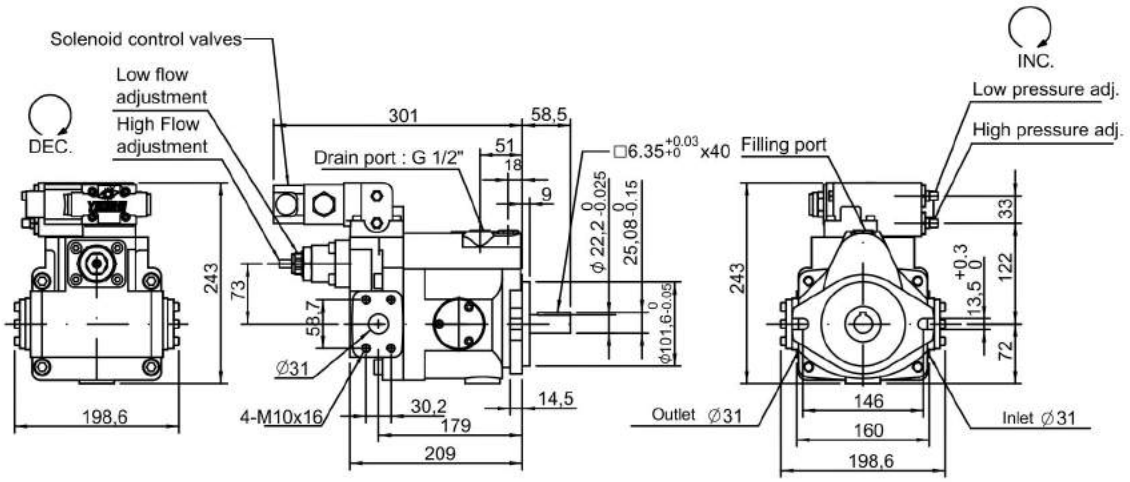
V38E, V42E Electric 2-stage pressure control



V38EG, V42EG Electric 2-stage pressure control + Remote



V38F, V42F Electric 2-stage pressure control & Flow control



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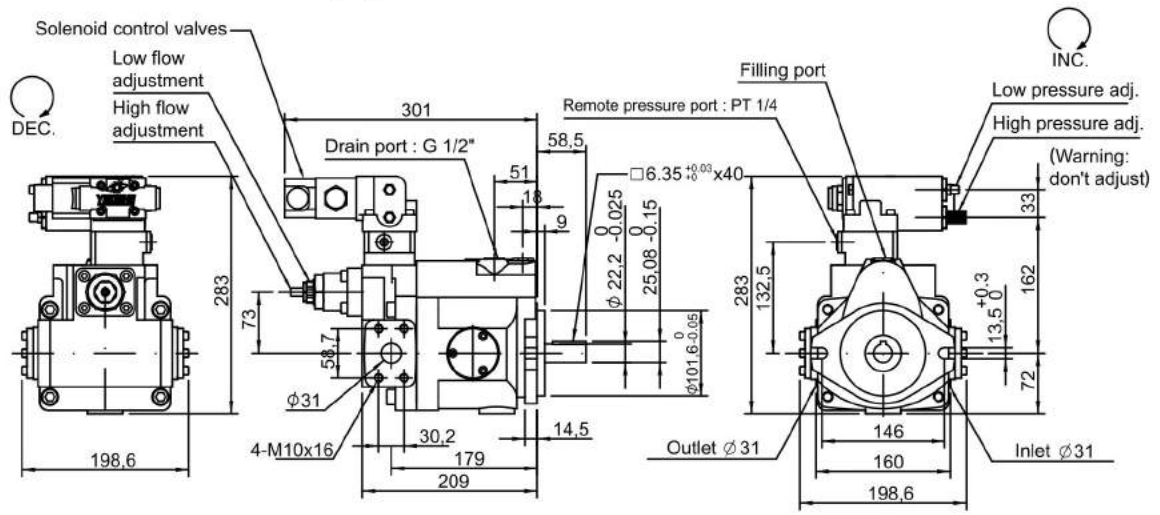
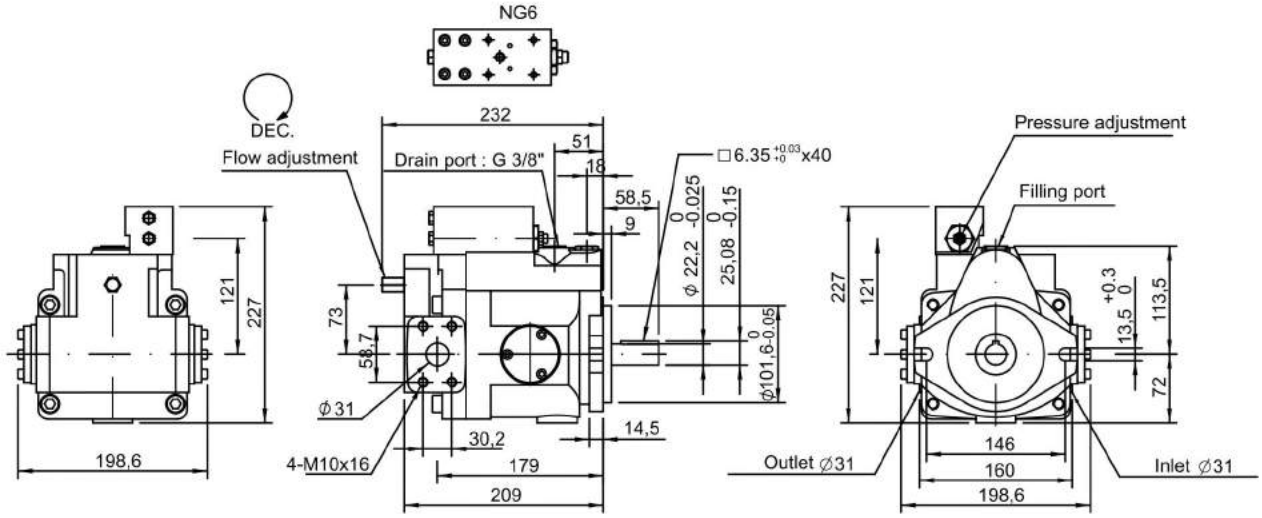
Dimension

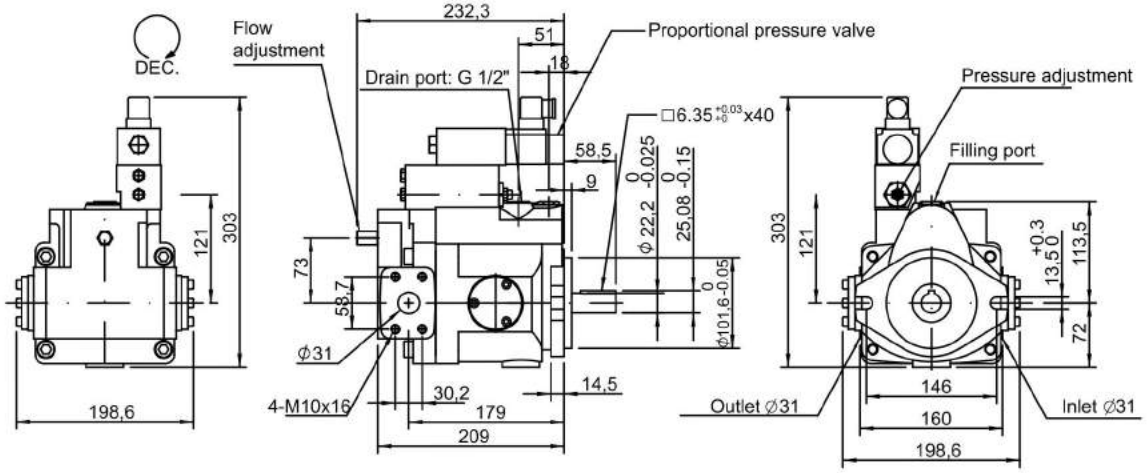
V38FG, V42FG Electric 2-stage pressure control & Flow control + Remote



V38GM, V42GM Remote pressure compensator with NG6 interface



V38GJ, V42GJ Remote pressure compensator + Proportional pressure valve



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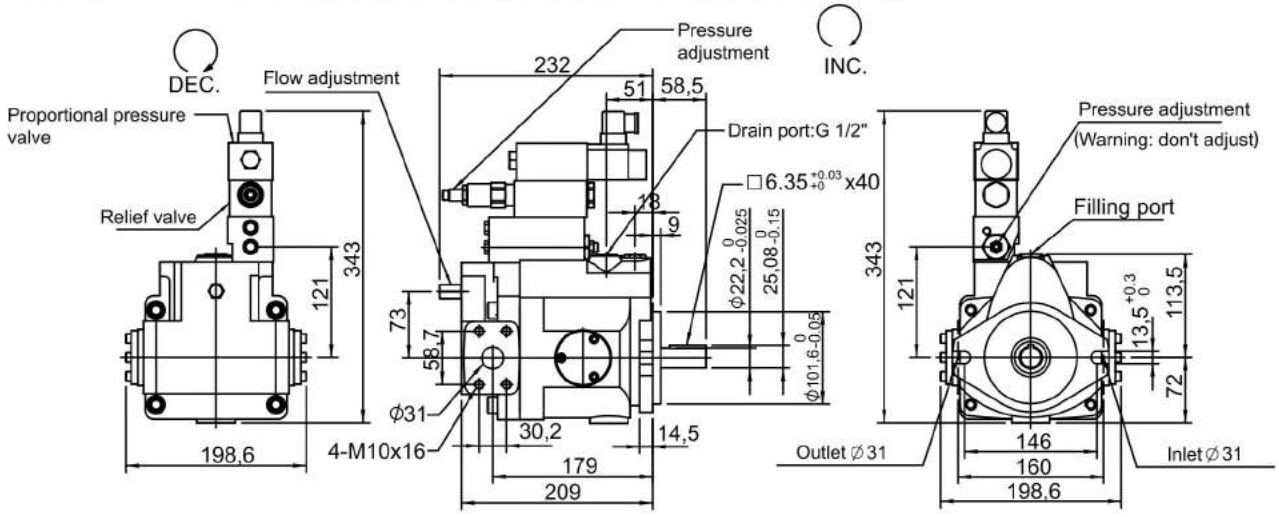
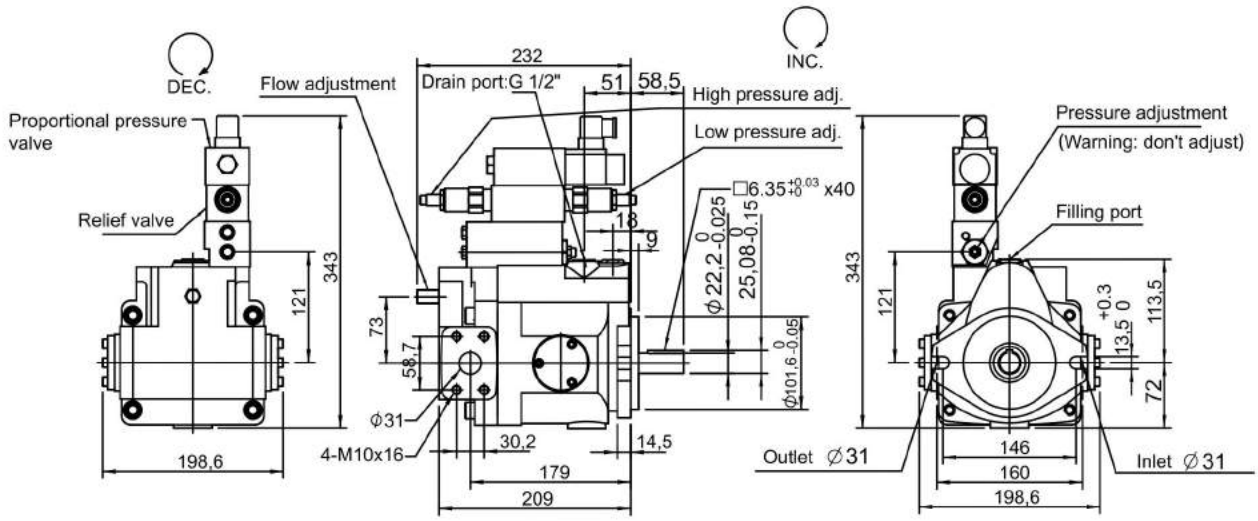
Dimension

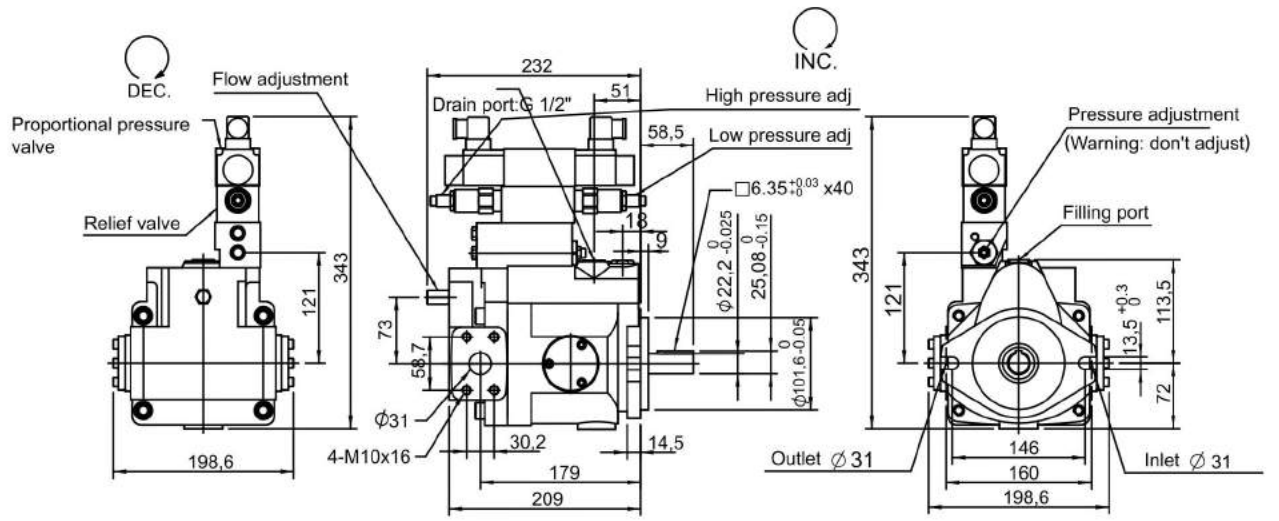
V38GR, V42GR Remote pressure compensator + Electrical unloading



V38GB, V42GB Remote pressure compensator + 2-stage pressure control



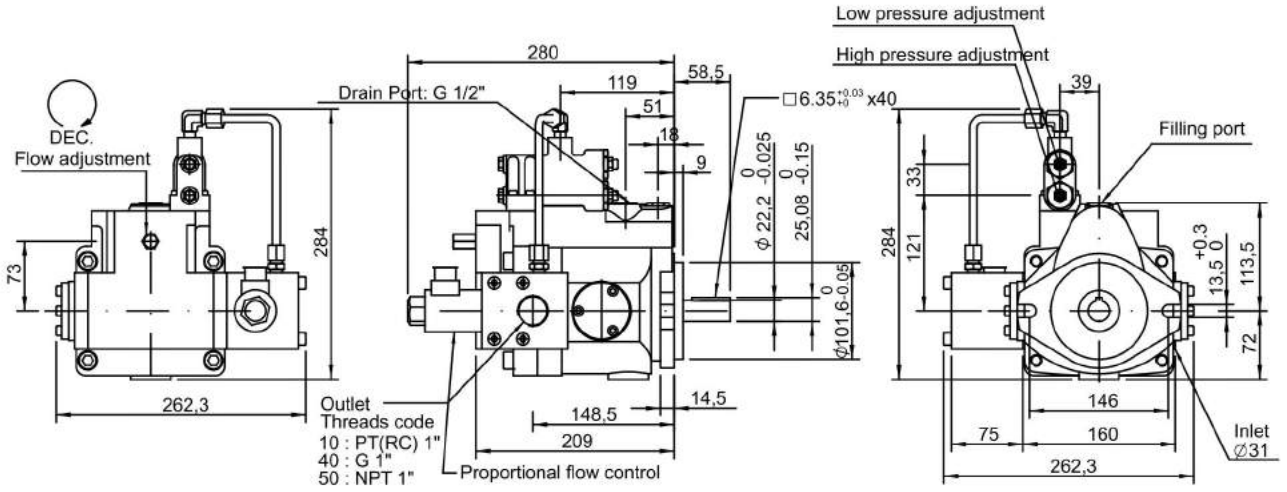
V38GC, V42GC Remote pressure compensator + Electrical unloading + 2-stage pressure control



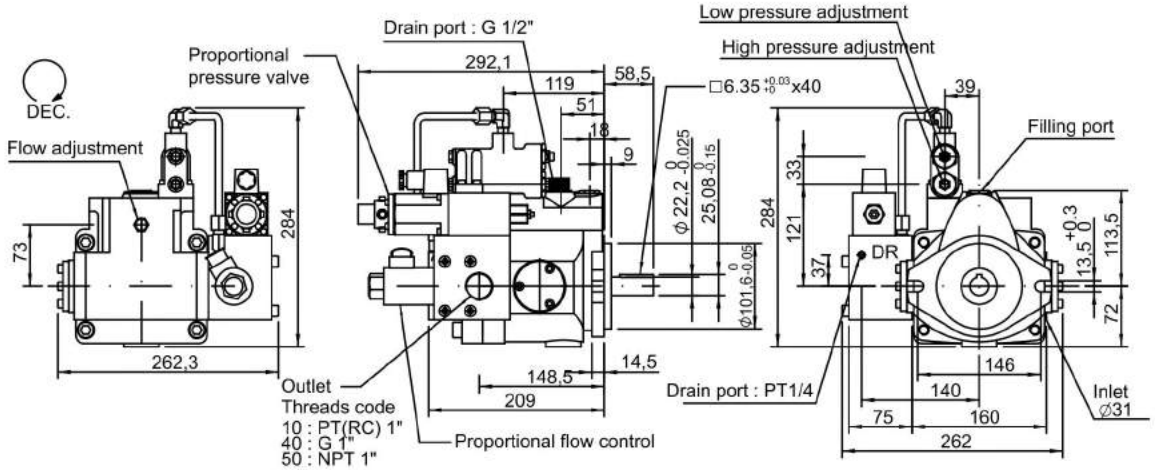
YEOSHE

Dimension

V38HQ, V42HQ Load-sensing compensator + Proportional flow valve + Relief valve



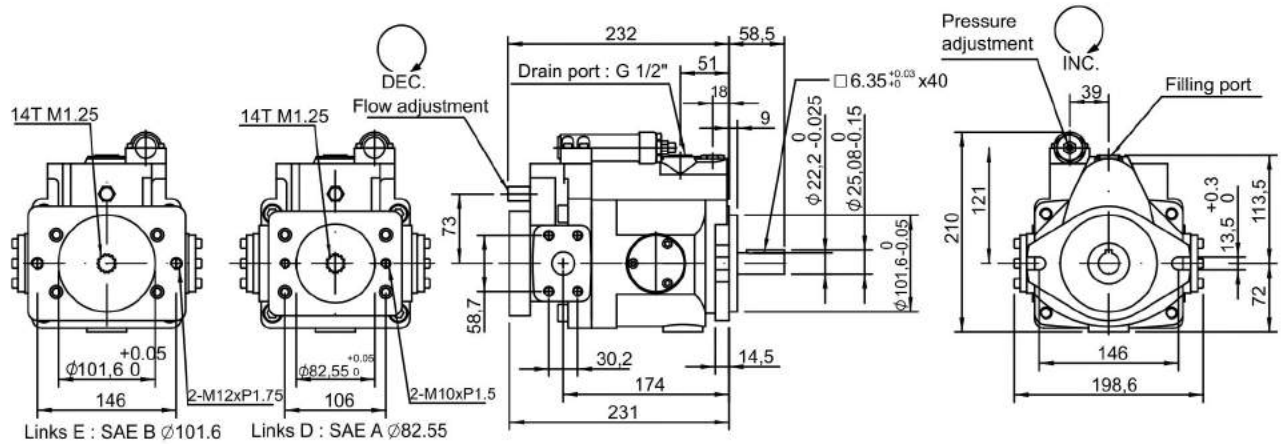
V38HK, V42HK Load-sensing compensator + Proportional pressure valve + Proportional flow valve



V38, V42 Thru drive (SAE A ∅82.55,code D) Thru drive (SAE B ∅101.6,code E)

V	38						—			D		
V	38						—			E		

Type	A	B	C	CG	CR	D	DG	E	EG	F	FG	G	GJ	GM	HL	HK	HQ
○Thru drive option	○					○	○	○	○			○	○	○	○	○	○



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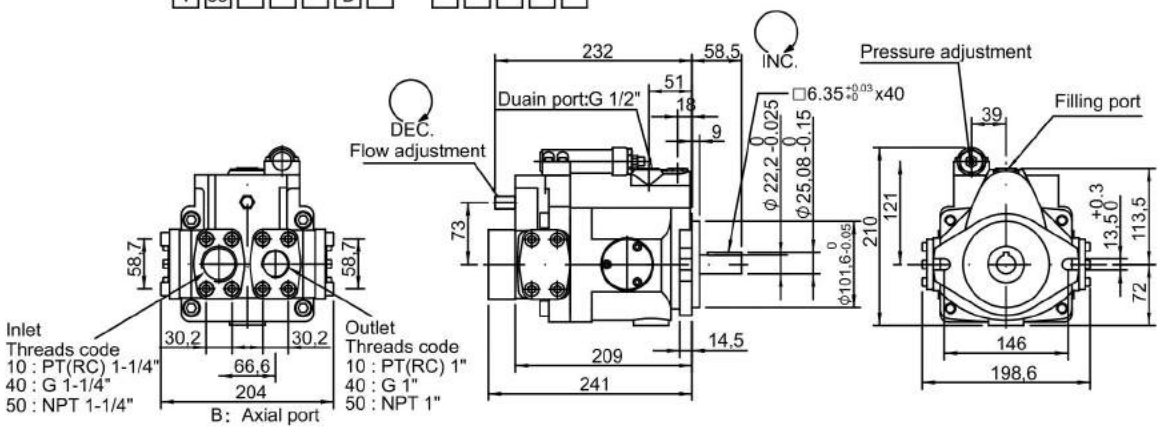
Dimension

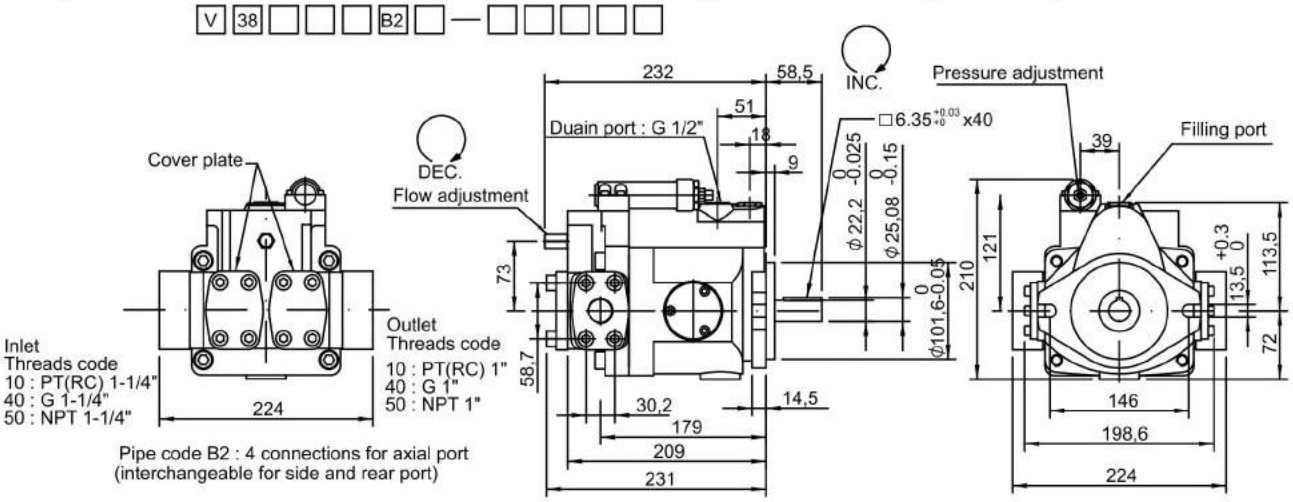
V38, V42 Rear port (Please following order code no.6,add“B”)

V 38 □□□B□ — □□□□□



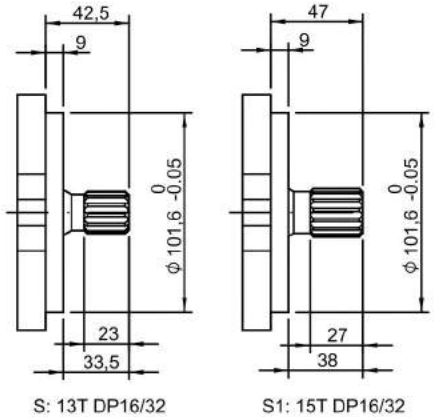
V38, V42 4 connections for rear port (Please following order code no.6,add“B2”)

V 38 □□□B2□ — □□□□□

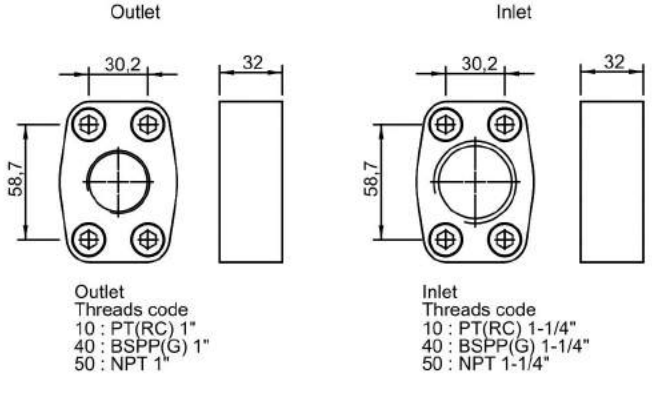


Type	A	B	C	CG	D	DG	E	EG	F	FG	G	GJ	GM	HL	HK	HQ
○ Axial port option	○	○	○	○					○	○	○	○	○	○		

V38, V42 Splined shaft type



V38, V42 Inlet / Outlet



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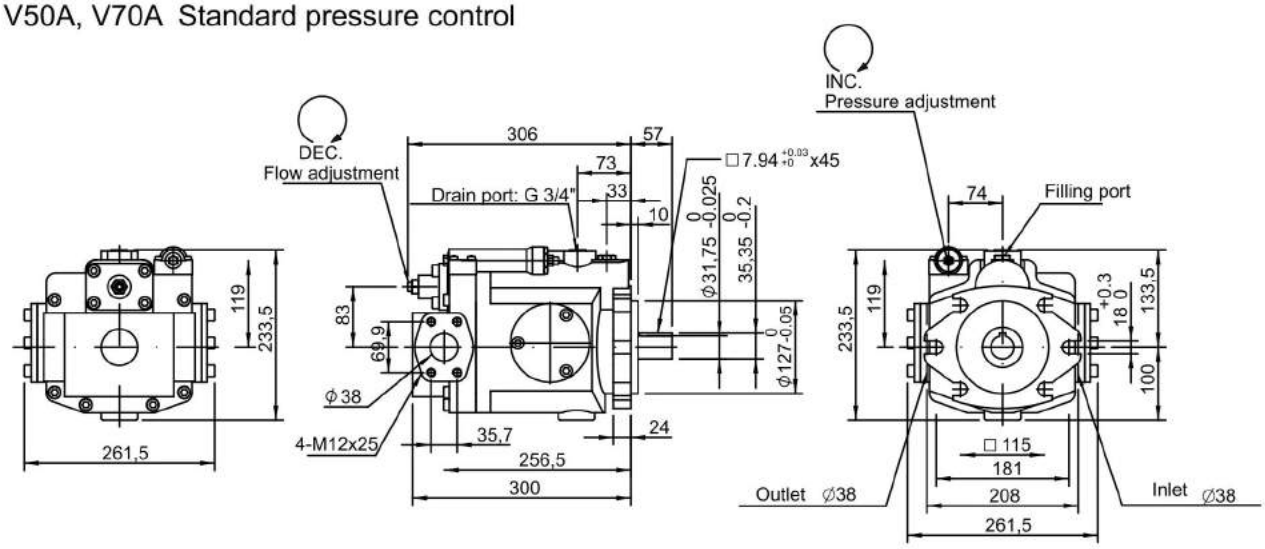
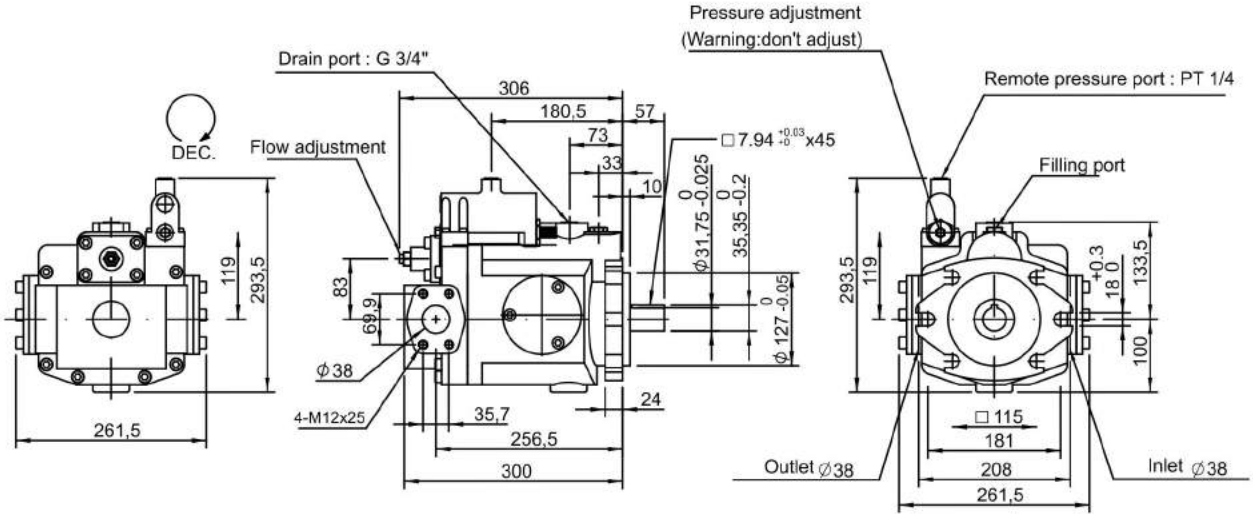
Dimension

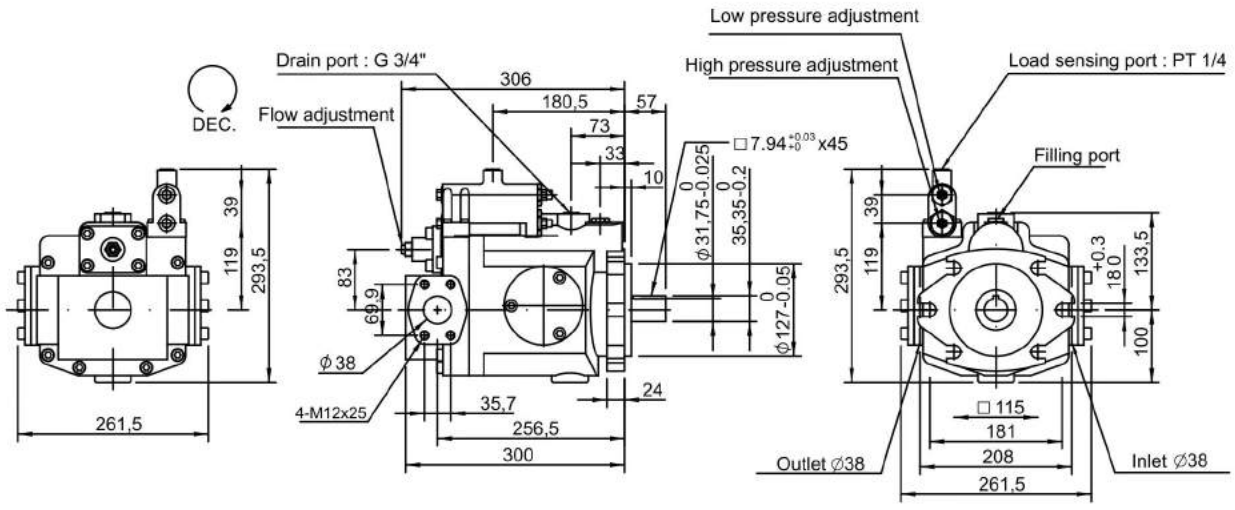
V50A, V70A Standard pressure control



V50G, V70G Remote pressure control



V50HL, V70HL Load-sensing control



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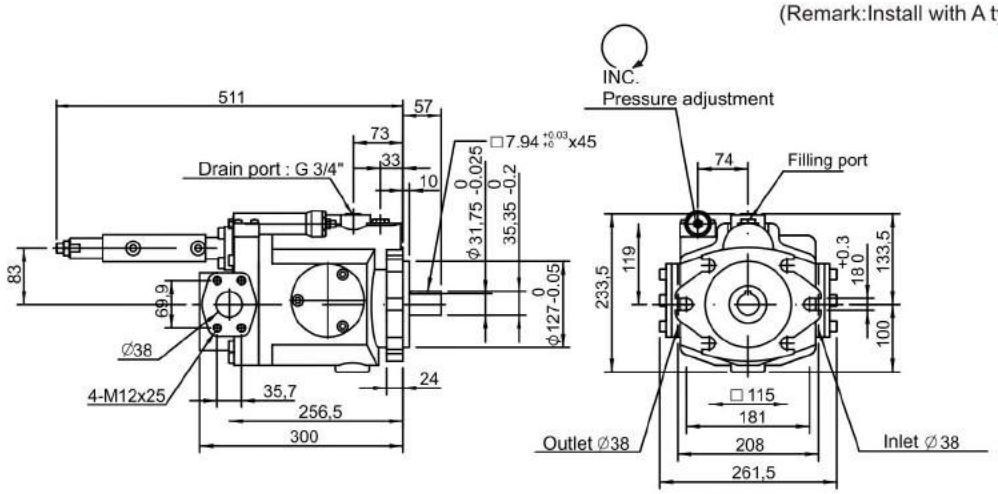
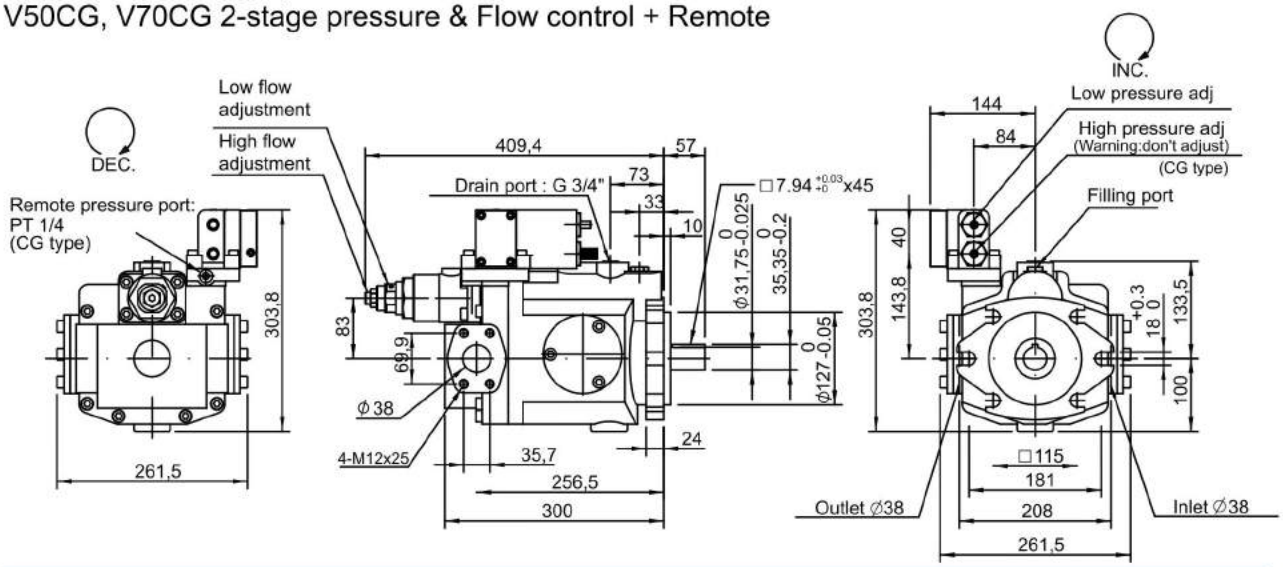
Dimension

V50B, V70B Muti-stage flow & Singe-stage pressure control (with cylinder)

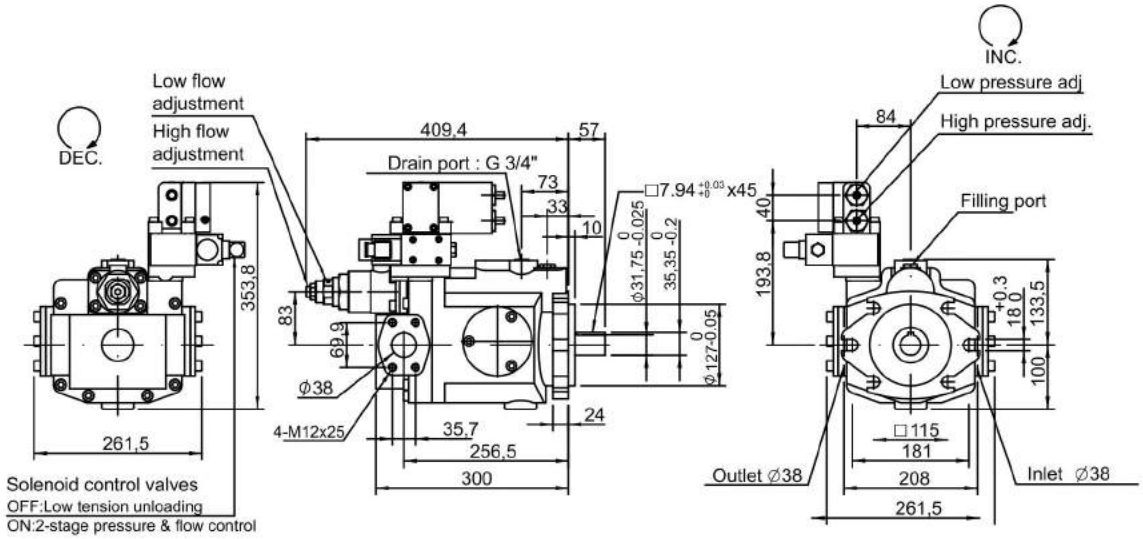
(Remark:Install with A type control)



V50C, V70C 2-stage pressure & Flow control
V50CG, V70CG 2-stage pressure & Flow control + Remote



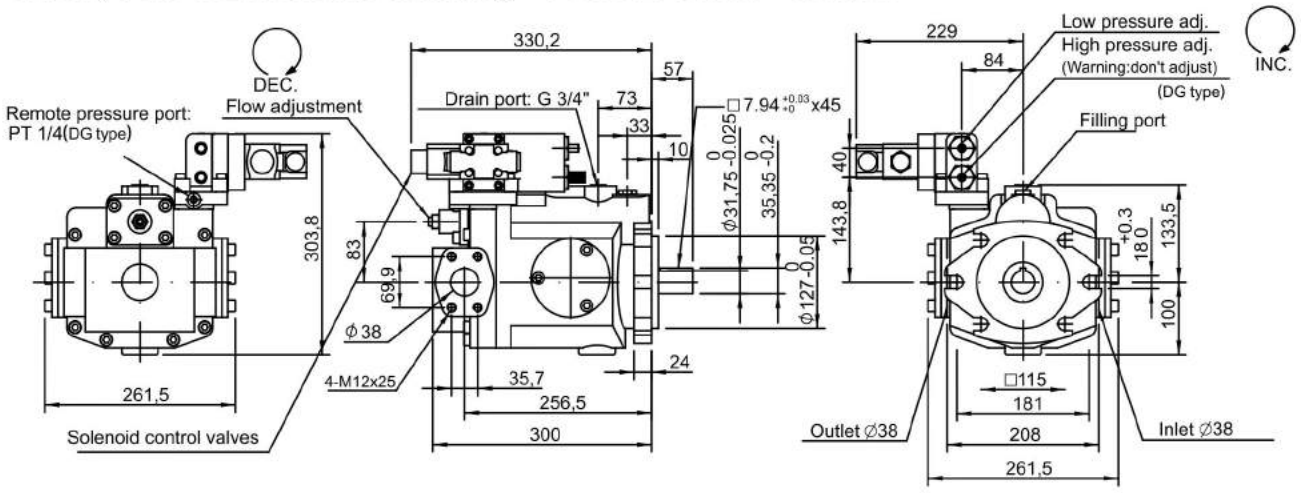
V50CR, V50CR 2-stage pressure & Flow control + Low tension unloading



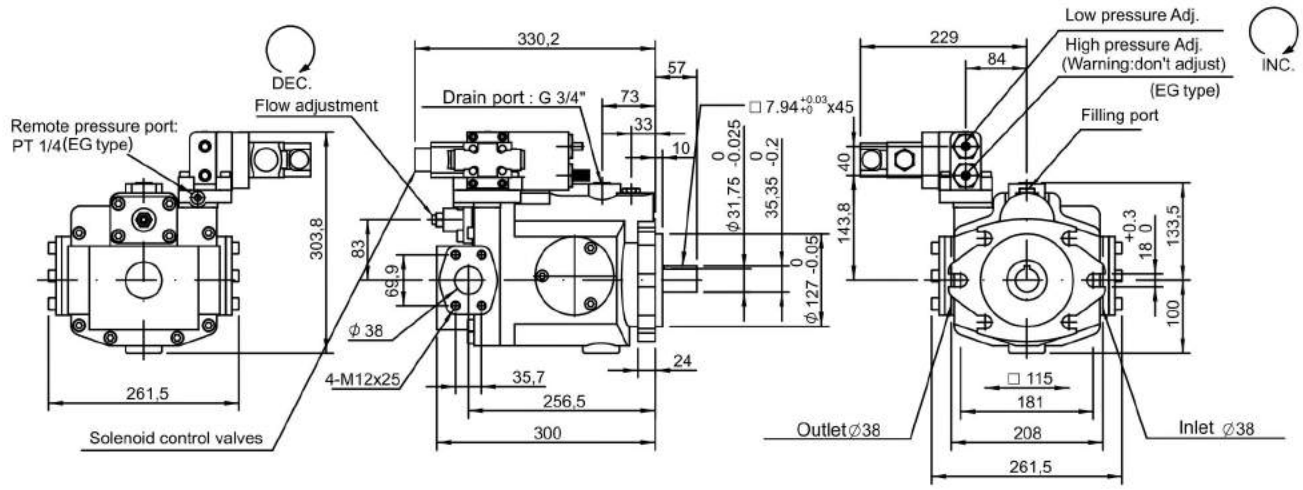
YEOSHE

Dimension

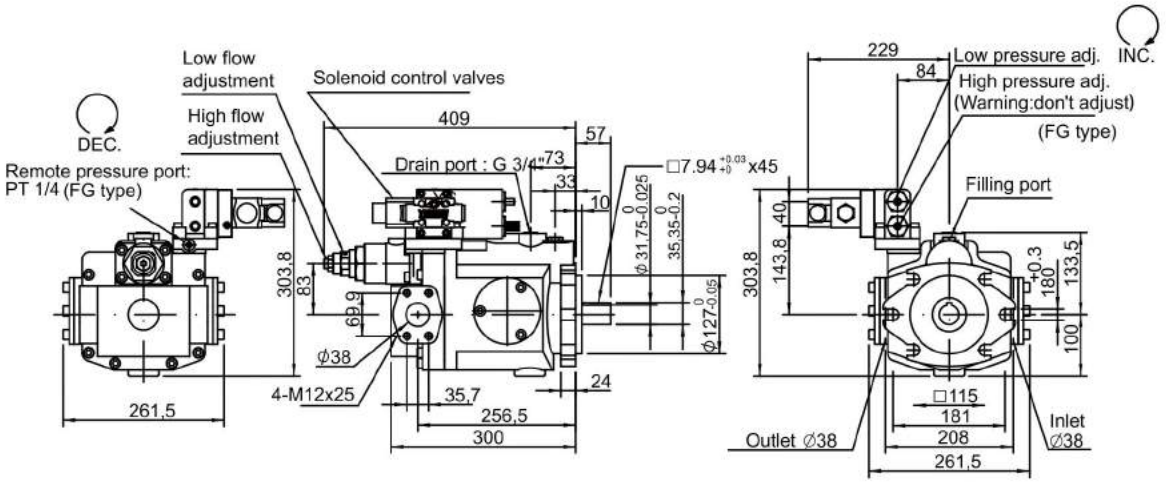
V50D, V70D Low tension unloading + Pressure control
V50DG, V70DG Low tension unloading + Pressure control + Remote



V50E, V70E Electric 2-stage pressure control
V50EG, V70 EG Electric 2-stage pressure control + Remote



V50F, V70F Electric 2-stage pressure control & Flow control
V50FG, V70 Electric 2-stage pressure control & Flow control + Remote



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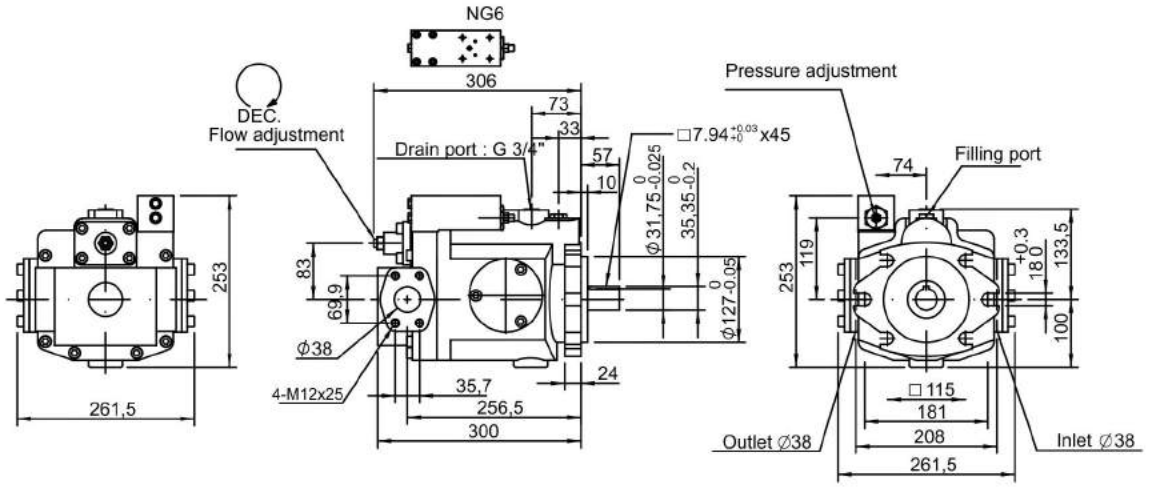
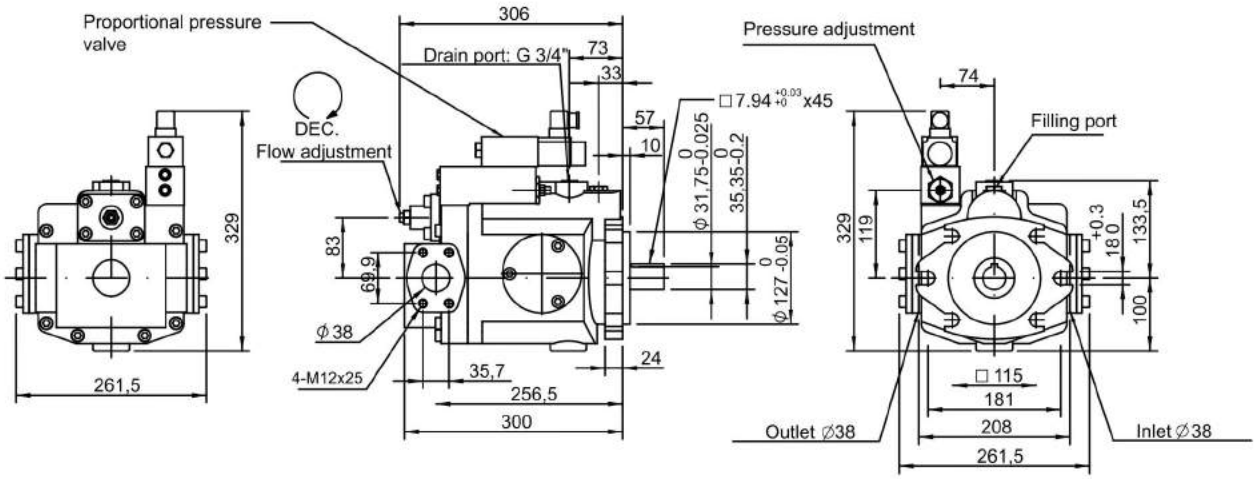
Dimension

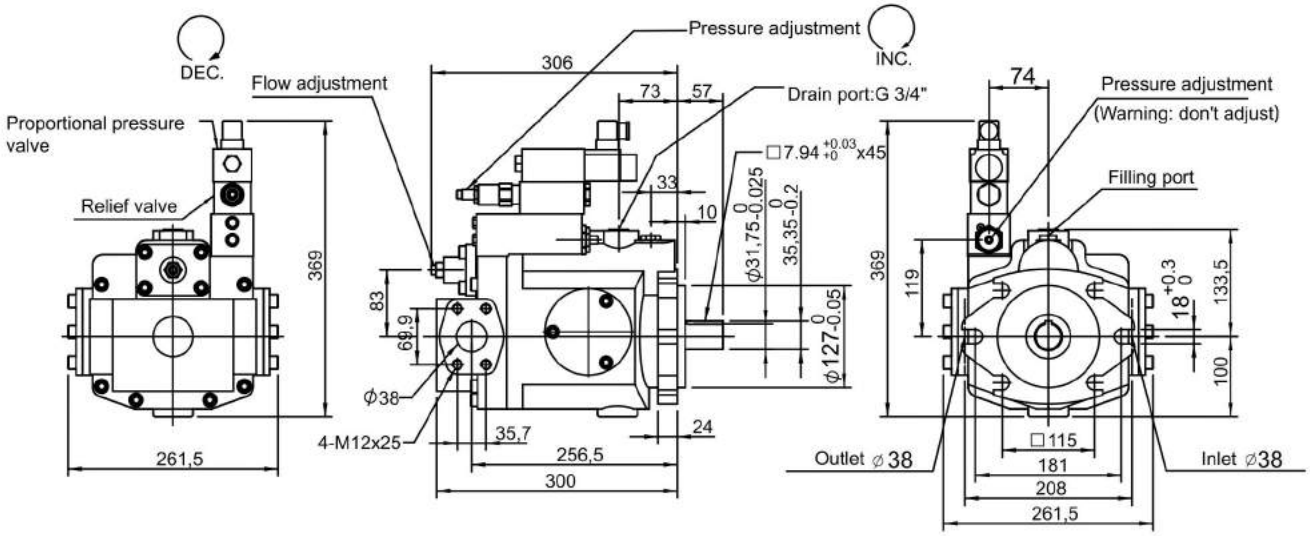
V50GM, V70GM Remote pressure compensator with NG6 interface



V50GJ, V70GJ Remote pressure compensator + Proportional pressure valve



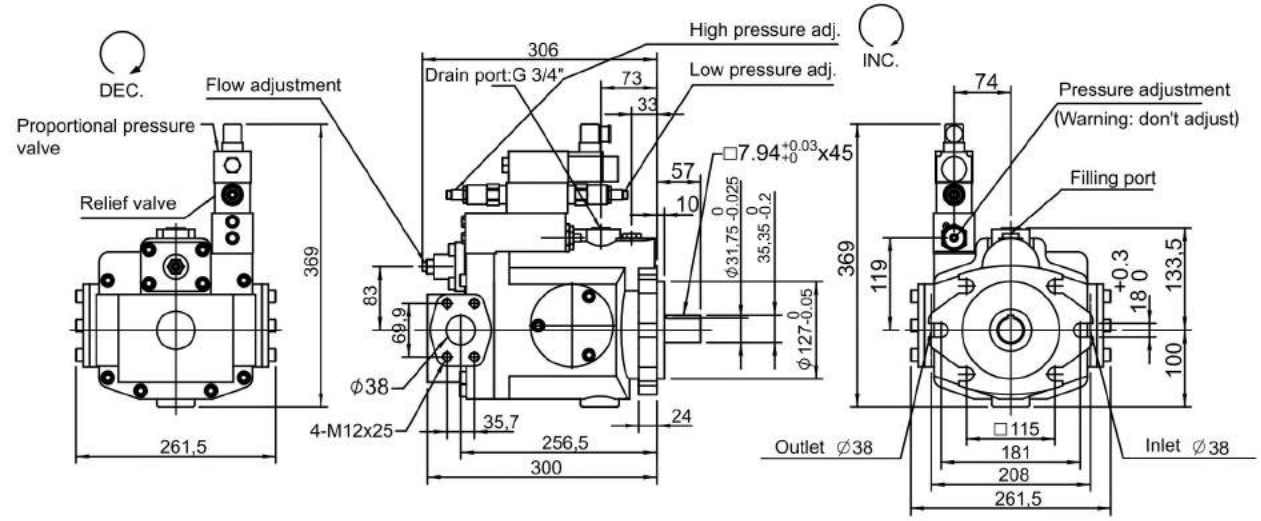
V50GR, V70GR Remote pressure compensator + Electrical unloading



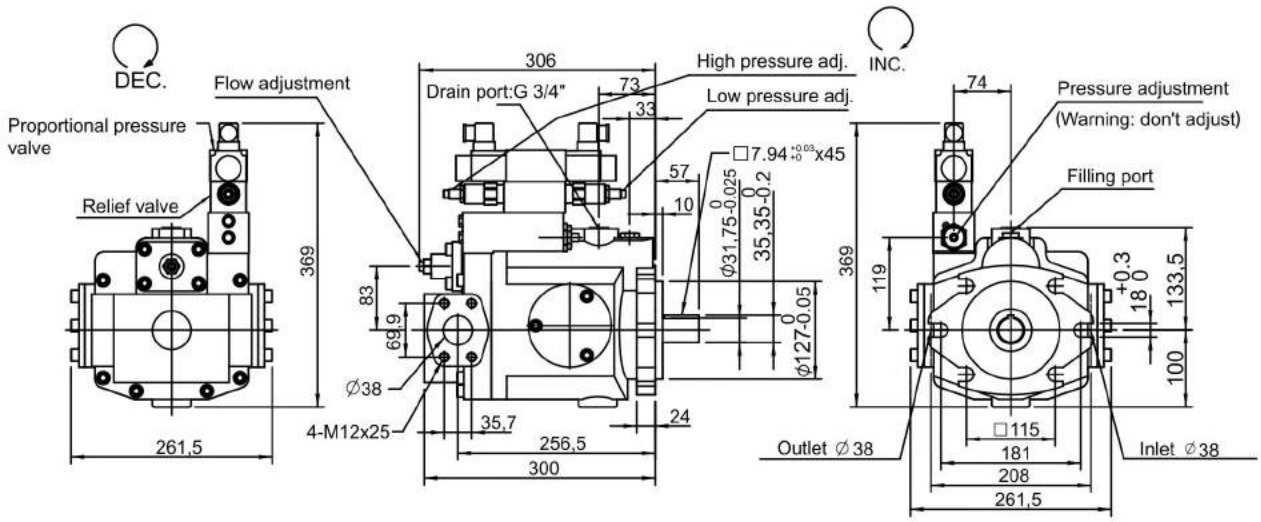
YEOSHE

Dimension

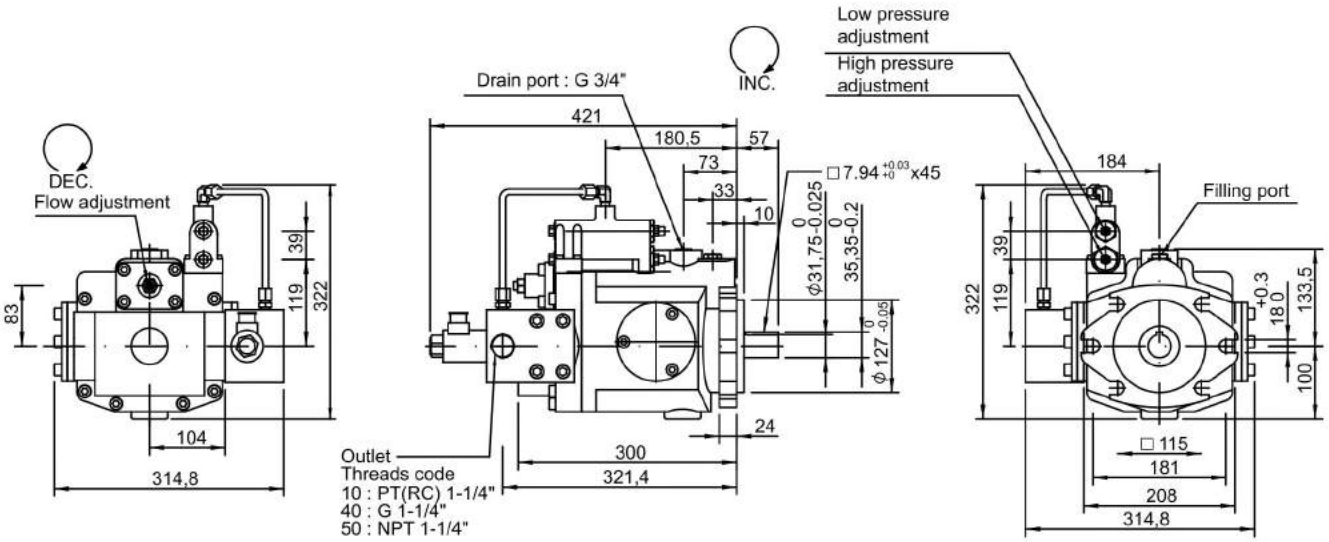
V50GB, V70GB Remote pressure compensator + 2-stage pressure control



V50GC, V70GC Remote pressure compensator + Electrical unloading + 2-stage pressure control



V50HQ, V70HQ Load-sensing compensator + Proportional flow valve + Relief valve



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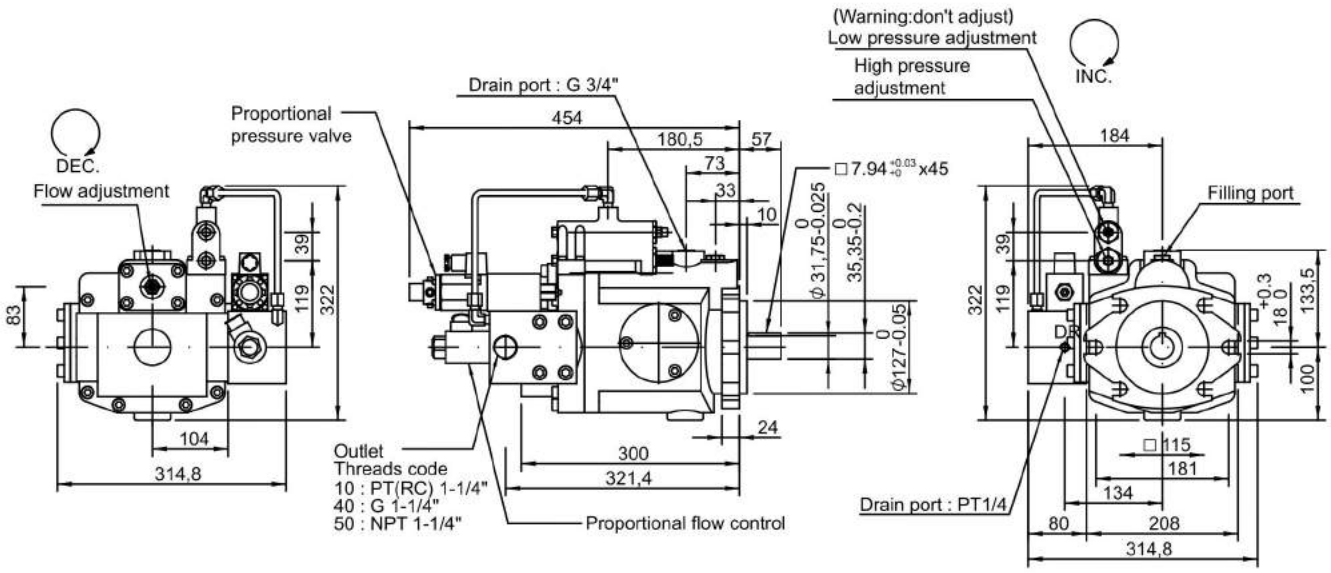
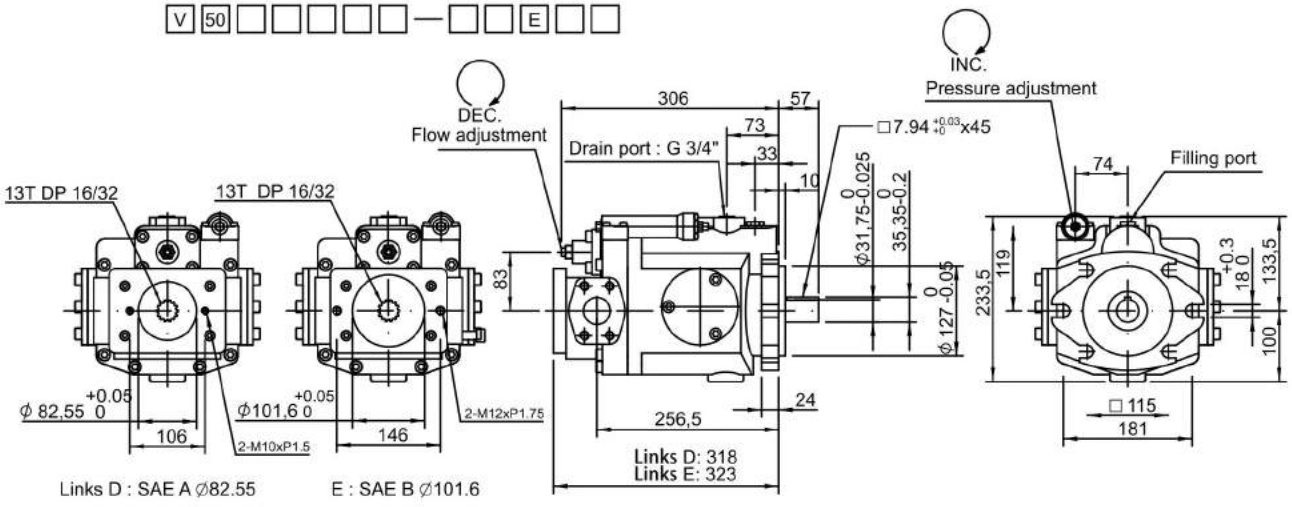
Dimension

V50HK, V70HK Load-sensing compensator + Proportional pressure valve + Proportional flow valve



V50, V70 Thru drive (SAE A ∅82.55, SAE B ∅101.6, code D or E)

V 50 □□□□□□ — □□ D □□
V 50 □□□□□□ — □□ E □□



Type	A	B	C	CR	CG	D	DG	E	EG	F	FG	G	GJ	GM	HL	HK	HQ
○ Thru drive option	○					○	○	○	○			○	○	○	○	○	○

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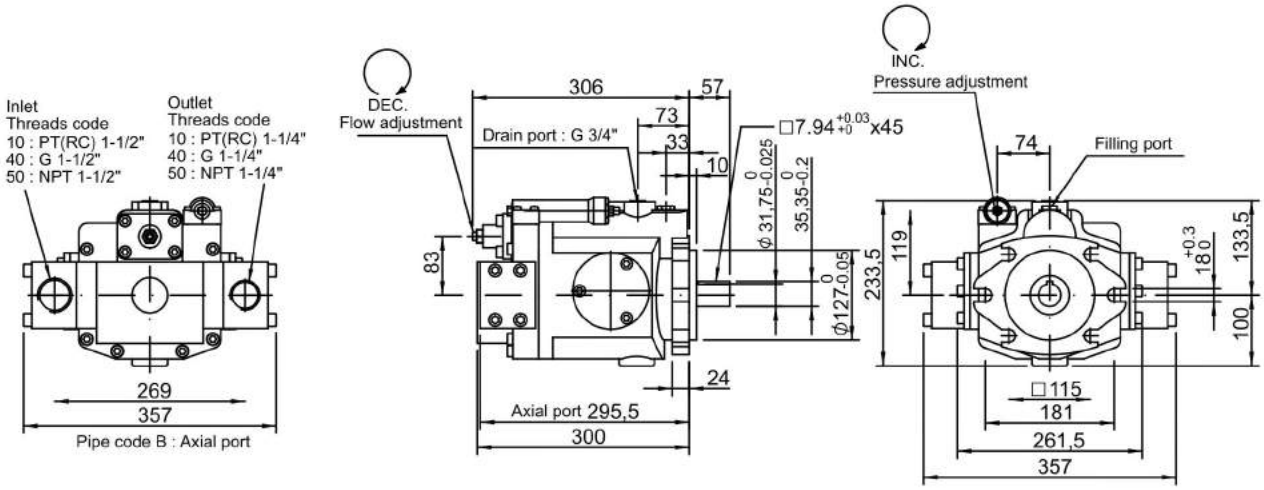
Dimension

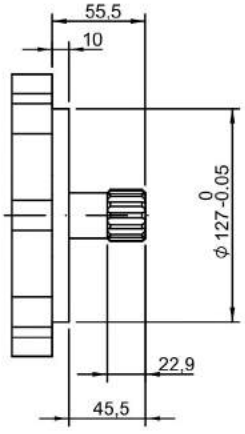
V50, V70 Rear port (Please following order code no.6 add “B”)

V 50 □□□B□—□□□□□



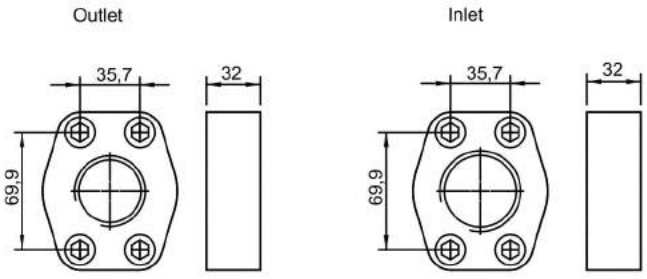
Type	A	B	C	CR	CG	D	DG	E	EG	F	FG	G	GJ	GM	HL	HK	HQ
○ Thru drive option	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		

V50, V70 Splined shaft type



S: 14T DP12/24

V50, V70 Inlet / outlet



Threads code
10 : PT(RC) 1-1/4"
40 : G 1-1/4"
50 : NPT 1-1/4"

Threads code
10 : PT(RC) 1-1/2"
40 : G 1-1/2"
50 : NPT 1-1/2"

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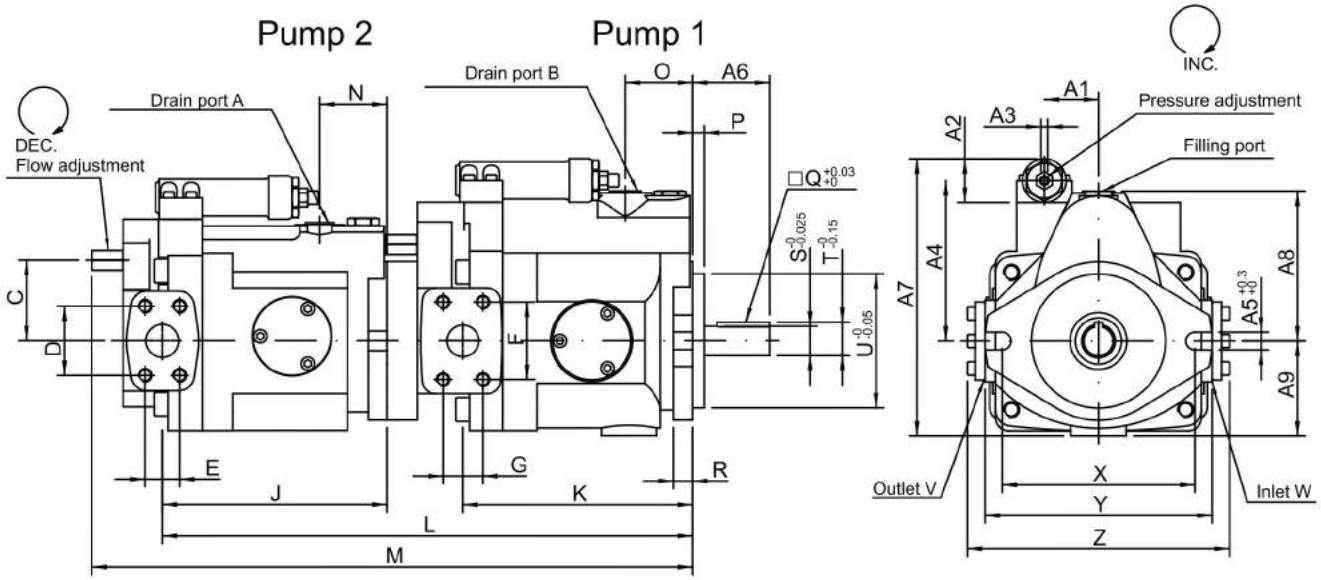
Pump combination

Pump 1	V15 (V18)	V23 (V25)	V23 (V25)	V38 (V42)	V38 (V42)	V38 (V42)	V50 (V70)	V50 (V70)	V50 (V70)
Pump 2	V15 (V18)	V15 (V18)	V23 (V25)	V15 (V18)	V23 (V25)	V38 (V42)	V15 (V18)	V23 (V25)	V38 (V42)
A	G 3/8"	G 3/8"	G 3/8"	G 3/8"	G 3/8"	G 1/2"	G 3/8"	G 3/8"	G 1/2"
B	G 3/8"	G 3/8"	G 3/8"	G 1/2"	G 1/2"	G 1/2"	G 3/4"	G 3/4"	G 3/4"
C	57.45	57.45	61	57.45	61	73	57.45	61	73
D	35.1	35.1	52.4	35.1	52.4	58.7	35.1	52.4	58.7
E	35.1	35.1	26.2	35.1	26.2	30.2	35.1	26.2	30.2
F	35.1	52.4	52.4	58.7	58.7	58.7	69.9	69.9	69.9
G	35.1	26.2	26.2	30.2	30.2	30.2	35.7	35.7	35.7
H	M8x20	M8x20	M10x16	M8x20	M10x16	M10x16	M8x20	M10x16	M10x16
I	M8x20	M10x16	M10x16	M10x16	M10x16	M10x16	M12x25	M12x25	M12x25
J	147	147	170	147	170	179	147	170	179
K	147	170	170	179	179	179	256.5	256.5	256.5
L	332	369	402	378	401	410	464	493	502
M	382	419	455	428	454	465	515	546	555
N	48	48	51	48		51	48	51	51
O	48	51	51	51	51	51	73	73	73
P	6	9	9	9	9	9	10	10	10
Q	4.76x32	6.35x40	6.35x40	6.35x40	6.35x40	6.35x40	7.94x45	7.94x45	7.94x45
R	13	14	14	14.5	14.5	14.5	24	24	24
S	Ø19.05	Ø22.22	Ø22.22	Ø22.22	Ø22.22	Ø22.22	Ø31.75	Ø31.75	Ø31.75
T	21.15	25.08	25.08	25.08	25.08	25.08	35.35	35.35	35.35
U	Ø82.55	Ø101.6	Ø101.6	Ø101.6	Ø101.6	Ø101.6	Ø127	Ø127	Ø127
V	Ø25	Ø25	Ø25	Ø31	Ø31	Ø31	Ø38	Ø38	Ø38
W	Ø25	Ø25	Ø25	Ø31	Ø31	Ø31	Ø38	Ø38	Ø38
X	106	146	146	146	146	146	181	181	181
Y	131	146	146	160	160	160	208	208	208
Z	165	182	182	198.6	198.6	198.6	261.5	261.5	261.5
A1	44	39	39	39	39	39	74	74	74
A2	31.2	31.2	31.2	31.2	31.2	31.2	40	40	40
A3	5	5	5	5	5	5	8	8	8
A4	84	110	110	121	121	121	119	119	119
A5	11	13.5	13.5	13.5	13.5	13.5	18	18	18
A6	44.5	58.5	58.5	58.5	58.5	58.5	57	57	57
A7	160	193	193	210	210	210	233.5	233.5	233.5
A8	91.5	93	93	113.5	113.5	113.5	133.5	133.5	133.5
A9	60	68	68	72	72	72	100	100	100



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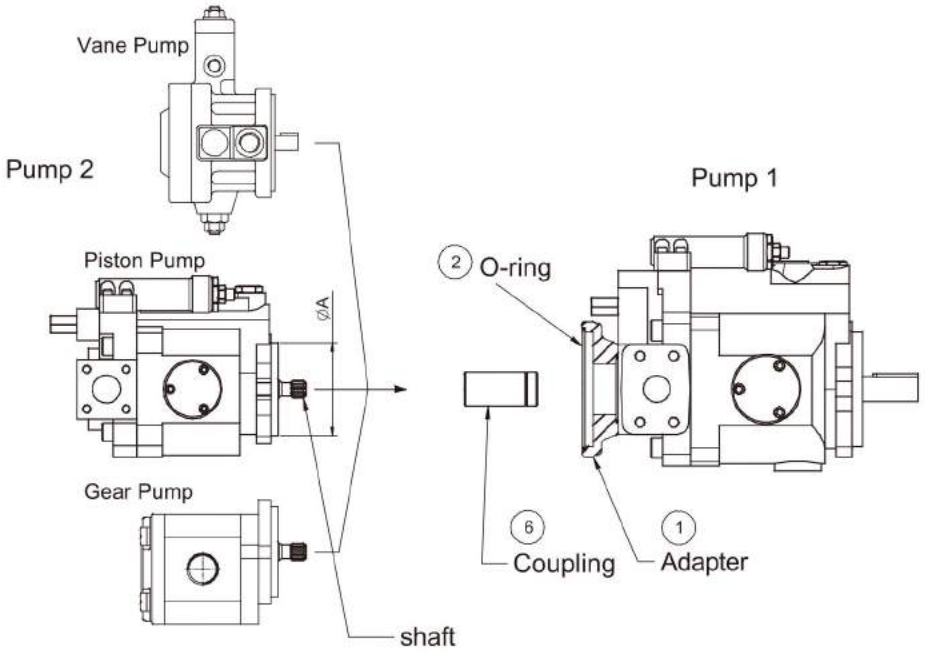
Pump combination - coupling



No	Pump 1	Pump 2			⑥Coupling
	Model	Model	ØA	Shaft	
15-1	V15,V18	Piston pump: V15~18, AR16~22 Gear pump: HGP-3A	SAE Ø 82.55	9T 16/32 DP	COUP-V15+15
23-1	V23, V25	Piston pump: V15~18, AR16~22	SAE A Ø82.559T	9T 16/32 DP	COUP-V23-1
23-3A		Gear pump: HGP-3A	Vane pump Ø95.02	13T 16/32 DP	COUP-V23-3
23-5		Vane: F30,F40,PV2R1		Cylindric Ø19.05*4.76	COUP-V23-5
23-6		Piston pump: V23~25 Vane pump: T6C	SAE B Ø101.6 Metric Ø100	Cylindric Ø22.22*6.35	COUP-V23-6
				Cylindric Ø22.22*4.76	
23-3B				13T 16/32 DP	COUP-V23-3
38-1		Vane pump: T6C	SAE A Ø82.55	9T 16/32 DP	COUP-V38-1
38-3A		Gear pump: HGP-3A	Vane pump Ø95.02	13T 16/32 DP	COUP-V38-3
38-5		Piston pump: F30,F40,PV2R1		Cylindric Ø19.05*4.76	COUP-V38-5
38-6	V38, V42	Piston pump: V23~25, V38~V42 Vane pump: T6C	SAE B Ø101.6 Metric Ø100	Cylindric Ø22.22*6.35	COUP-V38-6
				Cylindric Ø22.22*4.76	
38-7		Piston pump: PV016~023 Vane pump: PV2R2		Cylindric Ø25.4*6.35	COUP-V38-7
38-3B				13T 16/32 DP	COUP-V38-3
38-4				15T 16/32 DP	COUP-V38-4
70-1	V50, V70	Piston pump: V15~18, AR16~22	SAE A Ø82.55	9T 16/32 DP	COUP-V70-1
70-3A		Gear pump: HGP-3A	Vane pump Ø95.02	13T 16/32 DP	COUP-V70-3
70-5		Vane pump: F30,F40,PV2R1		Cylindric Ø19.05*4.76	COUP-V70-5
70-6		Piston pump: V23~25, V38~V42 Vane pump: T6C	SAE B Ø101.6 Metric Ø100	Cylindric Ø22.22*6.35	COUP-V70-6
				Cylindric Ø22.22*4.76	
70-7		Piston pump: PV016~023 Vane pump: PV2R2		Cylindric Ø25.4*6.35	COUP-V70-7
70-3B				13T 16/32 DP	COUP-V70-3
70-4				15T 16/32 DP	COUP-V70-4

Ø A	① Adapter	② O-ring
SAE A Ø82.55	23A-83-D	G80
Vane pump Ø95.02	23A-83-G	G95
SAE B Ø101.6	23A-83-E	G100
Metric Ø100	23A-83-J	G100

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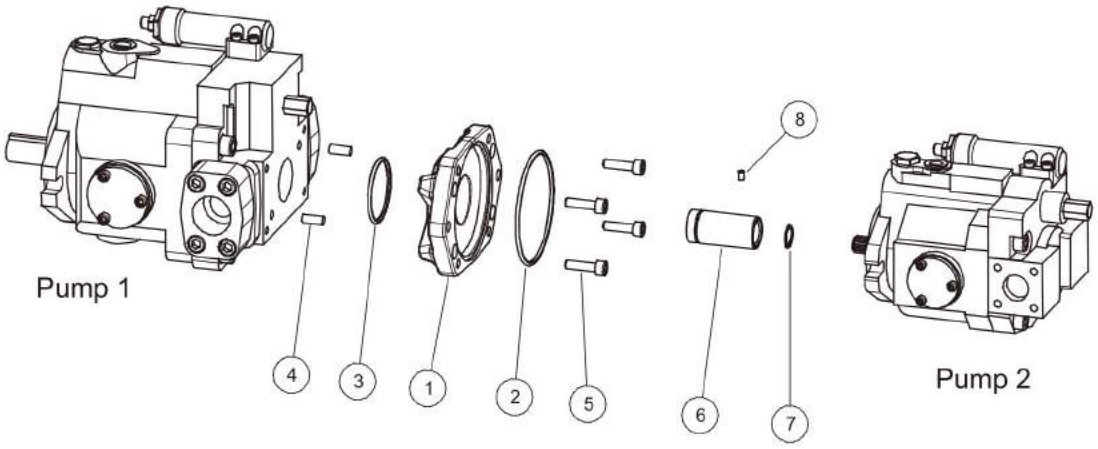
Pump combination - coupling



⑥Coupling	⑦Snap ring	Depending 2nd pump to use snap ring or not (● : With snap ring)			⑧Screw
		Piston pump: V15~18, AR16	Gear pump: HGP-3A	Vane pump: F30, F40	
COUP-V15+15	R13	●	●	●	--
COUP-V23-1	R13	●	●		--
COUP-V23-3	R20	●			--
COUP-V23-5	R20			●	M5 x8
COUP-V23-6	--				M5 x8
COUP-V38-1	R13	●	●		--
COUP-V38-3	R20	●			--
COUP-V38-4	--				--
COUP-V38-5	R20			●	M5 x8
COUP-V38-6	--				M5 x8
COUP-V38-7	--				M5 x8
COUP-V70-1	R13	●	●		--
COUP-V70-3	R20	●			--
COUP-V70-4	--				--
COUP-V70-5	R20			●	M5 x8
COUP-V70-6	--				M5 x8
COUP-V70-7	--				M5 x8

③ O-ring	G55
④Pin	ø8x16 x2 nos
⑤Screw	M8x30 x4 nos

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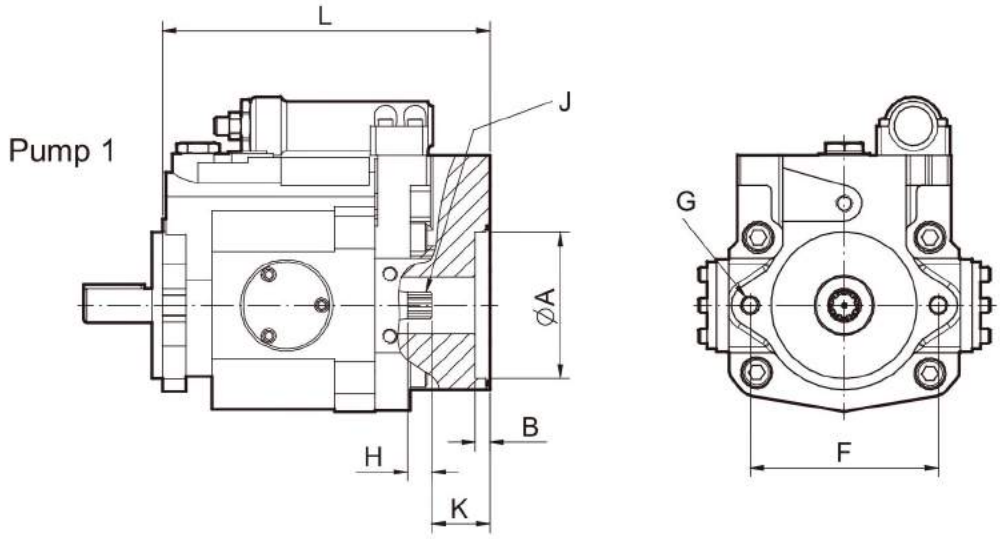
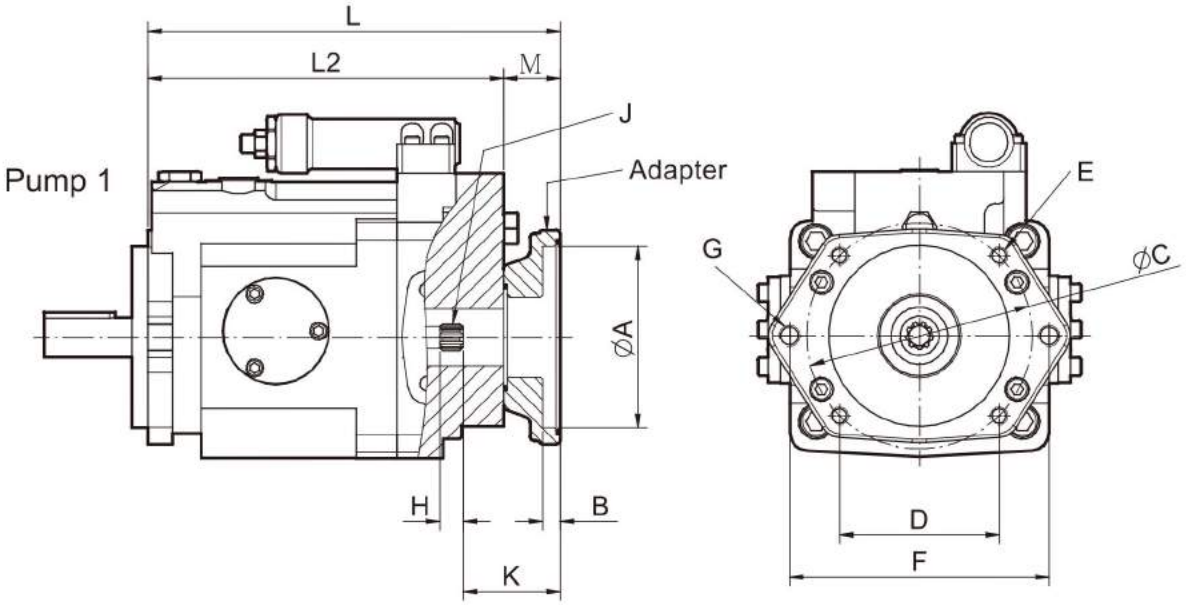
Pump combination - thru drive dimesion

V15,V18



V23~V70



Model	2nd Pump	ØA	B	ØC	D	E	F	G
V15,V18	SAE A	Ø82.55	8.35	--	--	--	106.3	M10xP1.5
V23~V70	SAE A	Ø82.55	8.35	Ø127	89.8	M10xP1.5	106.3	M10xP1.5
	SAE A	Ø101.6	10	Ø127	89.8	M10xP1.5	146	M12xP1.75
	Metric	Ø100	10	Ø125	88.39	M10xP1.5	140	M12xP1.75
	Vane Pump	Ø95.02	8.35	--	90	M10xP1.5	--	--

Model	K	H	J	M	L	L2		
V15,V18	33	13.5	9T 16/32 DP	--	185	--		
V23,V25	59	13.5	9T 16/32 DP	32	237	205		
V38,V42	66	20	14T M1.25	32	241	209		
V50,V70	64.4	22	13T 16/32DP	32	332	300		

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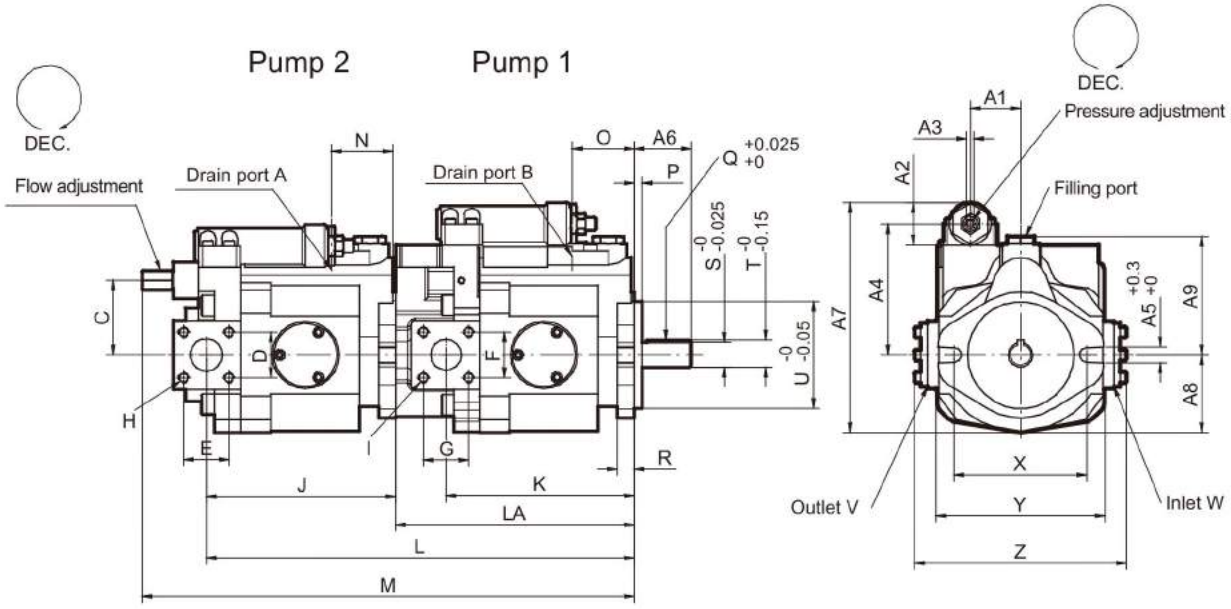
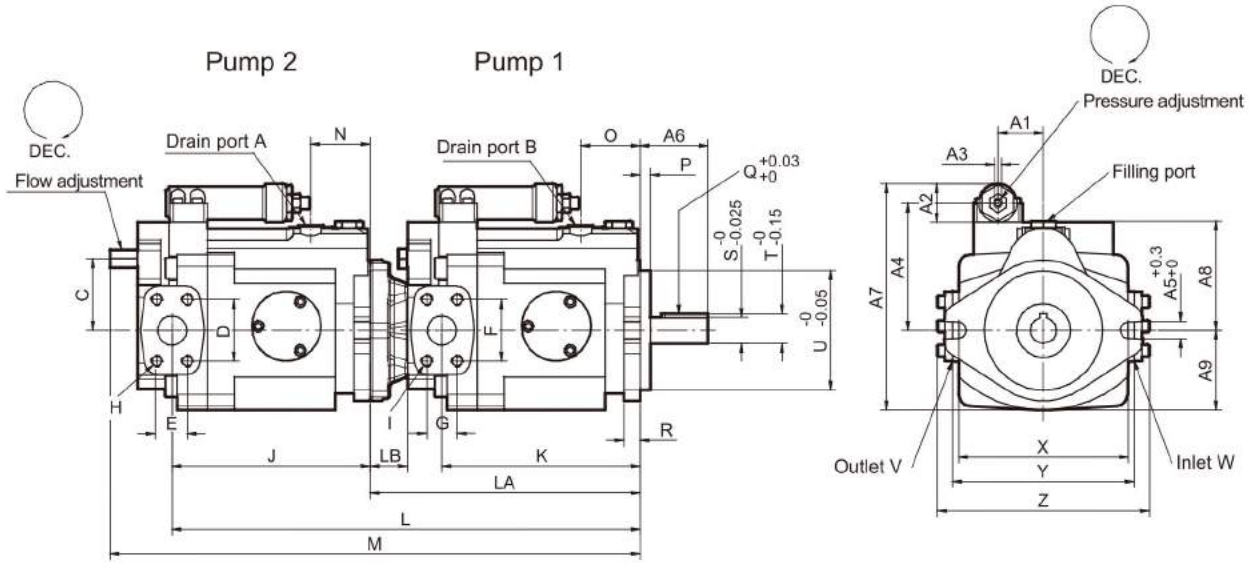
Pump combination - thru drive dimesion

View A
Pump 1 V15, Pump 2 V15



View B
Punp1 V23~V70, Pump 2 V15~V38



Pump combination - thru drive dimesion

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Pump 1	Pump 2	A	B	C	D	E	F	G	H	I
V15,V18	V15,V18	G 3/8" (RC 3/8")	G 3/8" (RC 3/8")	57.45	35.1	35.1	35.1	35.1	M8xP1.25x20	M8xP1.25x20
V23,V25	V15,V18	G 3/8" (RC 3/8")	G 3/8" (RC 3/8")	57.45	35.1	35.1	52.4	26.2	M8xP1.25x20	M10xP1.5x16
V23,V25	V23,V25	G 3/8" (RC 3/8")	G 3/8" (RC 3/8")	61	52.4	26.2	52.4	26.2	M10xP1.5x16	M10xP1.5x16
V38,V42	V15,V18	G 3/8" (RC 3/8")	G 1/2" (RC 1/2")	57.45	35.1	35.1	58.7	30.2	M8xP1.25x20	M10xP1.5x16
V38,V42	V23,V25	G 3/8" (RC 3/8")	G 1/2" (RC 1/2")	61	52.4	26.2	58.7	30.2	M10xP1.5x16	M10xP1.5x16
V38,V42	V38,V42	G 1/2" (RC 1/2")	G 1/2" (RC 1/2")	73	58.7	30.2	58.7	30.2	M10xP1.5x16	M10xP1.5x16
V50,V70	V15,V18	G 3/8" (RC 3/8")	G 3/4" (RC 3/4")	57.45	35.1	35.1	69.9	35.7	M8xP1.25x20	M12xP1.75x25
V50,V70	V23,V25	G 3/8" (RC 3/8")	G 3/4" (RC 3/4")	61	52.4	26.2	69.9	35.7	M10xP1.5x16	M12xP1.75x25
V50,V70	V38,V42	G 1/2" (RC 1/2")	G 3/4" (RC 3/4")	73	58.7	30.2	69.9	35.7	M10xP1.5x16	M12xP1.75x25

Pump 1	Pump 2	J	K	L	LA	LB	M	N	O	P	Q	R	S	T	U
V15,V18	V15,V18	147	147	332	185	--	382	48	48	6	4.76x32	13	∅19.05	21.15	∅82.55
V23,V25	V15,V18	147	170	384	237	32	411	48	51	9	6.35x40	14	∅22.22	25.08	∅101.6
V23,V25	V23,V25	170	170	407	237	32	455	51	51	9	6.35x40	14	∅22.22	25.08	∅101.6
V38,V42	V15,V18	147	179	388	241	32	438	48	51	9	6.35x40	14.5	∅22.22	25.08	∅101.6
V38,V42	V23,V25	170	179	411	241	32	464	51	51	9	6.35x40	14.5	∅22.22	25.08	∅101.6
V38,V42	V38,V42	179	179	420	241	32	473	51	51	9	6.35x40	14.5	∅22.22	25.08	∅101.6
V50,V70	V15,V18	147	256.5	479	332	32	529	48	73	10	7.94x45	24	∅31.75	35.35	∅127
V50,V70	V23,V25	170	256.5	502	332	32	555	51	73	10	7.94x45	24	∅31.75	35.35	∅127
V50,V70	V38,V42	179	256.5	511	332	32	564	51	73	10	7.94x45	24	∅31.75	35.35	∅127

Pump 1	Pump 2	V	W	X	Y	Z	A1	A2	A3	A4	A5	A6	A7	A8	A9
V15,V18	V15,V18	∅25	∅25	106	131	165	44	31.2	5	84	11	44.5	160	91.5	60
V23,V25	V15,V18	∅25	∅25	146	146	182	39	31.2	5	110	13.5	58.5	193	93	68
V23,V25	V23,V25	∅25	∅25	146	146	182	39	31.2	5	110	13.5	58.5	193	93	68
V38,V42	V15,V18	∅31	∅31	146	160	198.6	39	31.2	5	121	13.5	58.5	210	113.5	72
V38,V42	V23,V25	∅31	∅31	146	160	198.6	39	31.2	5	121	13.5	58.5	210	113.5	72
V38,V42	V38,V42	∅31	∅31	146	160	198.6	39	31.2	5	121	13.5	58.5	210	113.5	72
V50,V70	V15,V18	∅38	∅38	181	208	261.5	74	40	8	119	18	57	233.5	133.5	100
V50,V70	V23,V25	∅38	∅38	181	208	261.5	74	40	8	119	18	57	233.5	133.5	100
V50,V70	V38,V42	∅38	∅38	181	208	261.5	74	40	8	119	18	57	233.5	133.5	100

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