



YEOSHE

Hydraulic Piston Pump JV Series



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Efficient Performance
Innovative Technology
Reliable Quality and Service

YEOSHE HYDRAULICS CO.,LTD.



JV Axial piston pump

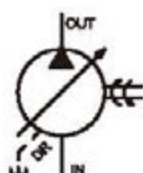
A

JV Axial piston pump

JV Series axial piston pump



- 1.The 100% as same as SAUER B*BUS JV series.
- 2.JV Series combing special design and strict engineering disciplines, reducing noise level.
- 3.Variable controller, easy to achieve high performance, saving energy & cost.
- 4.Low power capacity, low temperature level, long life.
- 5.Application for machine tool, injection machine, forging, paint spray machine, and so on...



nominal pressure : 210 bar
 max. pressure : 250 bar
 single operation period : 250bar / 6ms
 315bar / 2.5ms

Specifications

Size	Model	Displacement at (7 bar) 100 PSI						Pressure Adj. kgf/cm ²	Speed		Weight KG (LB)
		cm ³ /rev	in ³ /rev	1500 RPM LPM U.S. GPM	1800 RPM LPM U.S. GPM				Max. RPM	Min. RPM	
1	JV10	10.0	0.61	15.0 3.90	18.0 4.76	1: 8~70 2: 15~140 3: 20~210 4: 20~250	2500	500			13 (28.6)
	JV15	15.0	0.90	22.5 5.78	27.0 7.05						13 (28.6)
	JV18	17.8	1.09	26.7 7.05	32.0 8.45						13 (28.6)
2	JV23	23.0	1.40	35.4 9.11	41.4 10.94						22 (48.4)
	JV25	25.0	1.52	37.5 9.66	45.0 11.60						22 (48.4)
3	JV38	37.8	2.31	56.7 14.98	68.0 17.98						26 (57.2)
	JV42	42.0	2.56	63.0 16.23	76.0 19.58						26 (57.2)
4	JV50	51.5	3.14	77.2 20.37	92.7 24.48	1: 8~70 2: 15~140 3: 20~210					56 (123.2)
	JV70	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

A

2

JV Axial piston pump

◎Standard pressure control

	-	JV		A															
1		2	3	4	5	12	15		16	18	19								

◎Remote pressure control

	-	JV		A															
1		2	3	4	5	12	15		16	RC	18	19							

◎2-Stage pressure & Flow control

	-	JV		C				R	H	X									
1		2	3	4	7	8	12	13	15		16	18	19						

◎2-Stage pressure & Flow control + Remote

	-	JV		C				R	H	X									
1		2	3	4	7	8	12	13	15		16	RC	18	19					

◎Electric 2-stage pressure & Flow control

	-	JV		C				R	J	P	X								
1		2	3	4	7	8	12	13	14	15		16	18	19					

◎Electric 2-stage pressure & Flow control + Remote

	-	JV		C				R	J	P	X								
1		2	3	4	7	8	12	13	14	15		16	RC	18	19				

◎Electric 2-stage pressure

	-	JV		D				R	P	X									
1		2	3	4	9	10	12	14	15		16	18	19						

◎Electric 2-stage pressure + Remote

	-	JV		D				R	P	X									
1		2	3	4	9	10	12	14	15		16	RC	18	19					

◎Load-sensing control

	-	JV		SA															
1		2	3	4	6	11	12	15		16	18	19							

◎GM Remote pressure compensator + Proportional pressure valve

	-	JV		GM															
1		2	3	4	5	12	15		16	17	18	19							

◎GJ Remote pressure compensator

	-	JV		GJ				P											
1		2	3	4	5	12	14	15		16	17	18	19						

◎HQ Load-sensing compensator+ Proportional flow valve + Relief valve

	-	JV		HQ				P											
1		2	3	4	6	11	12	14	15		16	17	18	19					

◎HK Load-sensing compensator+ Proportional pressure valve + Proportional flow valve

	-	JV		HK				P											
1		2	3	4	6	11	12	14	15		16	17	18	19					

Type code for standard program

A

3

JV Axial piston pump

Seals

1	Petrol hydraulic oil → NBR	None
	Water-glycol hydraulic oil → Viton	F
	Phosphate hydraulic oil → Viton	W

Series

2	Open-loop piston pump	JV
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Displacement

3	10cc/rev	10
	15cc/rev	15
	18cc/rev	18
	23cc/rev	23
	38cc/rev	38
	50cc/rev	50
	70cc/rev	70

Control device 1

4	Standard pressure control	A
	2-stage pressure & Flow control	C
	Low tension unloading + Pressure control	D
	Load-sensing control	SA
	Remote pressure compensator with NG6 interface	GM
	Remote pressure compensator + Proportional pressure valve	GJ
	Load-sensing compensator + Proportional flow valve + Relief valve	HQ
	Load-sensing compensator + Proportional pressure valve + Proportional flow valve	HK

A Control pressure adjusting

Pressure adjusting (bar)	Non remote control									Remote control									
	JV10	JV15	JV18	JV23	JV25	JV38	JV42	JV50	JV70	JV10	JV15	JV18	JV23	JV25	JV38	JV42	JV50	JV70	
8~70bar	■	■	■	■	■	■	■	-	-	-	-	-	-	-	-	-	-	-	1
15~70bar	-	-	-	-	-	-	-	■	■	-	-	-	-	-	-	-	-	-	1
15~140bar	■	■	■	■	■	■	■	■	■	-	-	-	-	-	-	-	-	-	2
15~210bar	-	-	-	-	-	-	-	-	-	■	■	■	■	■	■	■	-	-	3
20~210bar	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	■	■	3
35~210bar	■	■	■	■	■	■	■	■	■	-	-	-	-	-	-	-	-	-	3
15~250bar	-	-	-	-	-	-	-	-	-	-	-	-	■	■	■	■	-	-	4
35~250bar	-	-	-	■	■	■	■	-	-	-	-	-	-	-	-	-	-	-	4

SA Control load-sensing pressure adjusting

Pressure adjusting (bar)	Load-sensing control									
	JV10	JV15	JV18	JV23	JV25	JV38	JV42	JV50	JV70	
8~70bar	■	■	■	■	■	■	■	-	-	1
15~70bar	-	-	-	-	-	-	-	■	■	1
15~140bar	■	■	■	■	■	■	■	■	■	2
35~210bar	■	■	■	■	■	■	■	■	■	3
35~250bar	-	-	-	■	■	■	■	-	-	4

C Control 2-stage pressure adjusting - low pressure

Pressure adjusting (bar)	Self-regulating									Solenoid valve									
	JV10	JV15	JV18	JV23	JV25	JV38	JV42	JV50	JV70	JV10	JV15	JV18	JV23	JV25	JV38	JV42	JV50	JV70	
15~70bar	-	-	-	-	-	-	-	■	■	■	■	■	■	■	■	■	-	-	1
25~70bar	■	■	■	■	■	■	■	-	-	-	-	-	-	-	-	-	-	-	1
15~140bar	-	-	-	-	-	-	-	■	■	■	■	■	■	■	■	■	-	-	2
25~140bar	■	■	■	■	■	■	■	-	-	-	-	-	-	-	-	-	-	-	3

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



Type code for standard program

A

4

JV Axial piston pump

C Control 2-stage pressure adjust - Hight pressure

Pressure adjusting (bar)	Self-regulating									Solenoid valve									
	JV10	JV15	JV18	JV23	JV25	JV38	JV42	JV50	JV70	JV10	JV15	JV18	JV23	JV25	JV38	JV42	JV50	JV70	
15~70bar	-	-	-	-	-	-	-	■	■	■	■	■	■	■	■	■	-	-	1
25~70bar	■	■	■	■	■	■	■	-	-	-	-	-	-	-	-	-	-	-	1
15~140bar	-	-	-	-	-	-	-	■	■	■	■	■	■	■	■	■	-	-	2
25~140bar	■	■	■	■	■	■	■	-	-	-	-	-	-	-	-	-	-	-	2
35~210bar	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	-	-	3
35~250bar	-	-	-	■	■	■	■	-	-	-	-	-	■	■	■	■	-	-	4

D Control Electric 2-stage pressure adjusting - Low pressure

Pressure adjusting (bar)	Electric 2-stage pressure									
	JV10	JV15	JV18	JV23	JV25	JV38	JV42	JV50	JV70	
8~70bar	■	■	■	■	■	■	■	-	-	1 ※
15~70bar	■	■	■	■	■	■	■	-	-	2

D Control Electric 2-stage pressure adjusting - Hight pressure

Pressure adjusting (bar)	Electric 2-stage pressure									
	JV10	JV15	JV18	JV23	JV25	JV38	JV42	JV50	JV70	
15~70bar	■	■	■	■	■	■	■	-	-	1 ※
15~140bar	■	■	■	■	■	■	■	-	-	2
35~210bar	■	■	■	■	■	■	■	-	-	3
35~250bar	-	-	-	■	■	■	■	-	-	4

FC differetial pressure valve

7bar	A
14bar	B
21bar	C

Rotation

Clockwise	R
Counter Clockwise	L

Control device 2

Self-regulating	H
Solenoid valve	J

Voltage

AC100V(50/60HZ),AC110V 60HZ	A
AC200V(50/60HZ),AC220V 60HZ	B
AC110V 50HZ	C
AC220V 50HZ	D
DC12V	N
DC24V	P ※

Direction of pipe connections

	JV10	JV15	JV18	JV23	JV25	JV38	JV42	JV50	JV70	
Rear port (Thread)	■	■	■	■	■	■	■	-	-	None
Side port (Thread)	■	■	■	△	△	△	△	-	-	X
Rear port (Flange)	-	-	-	-	-	-	-	△	△	

* Remark: If 50.70cc/rev displacement side port pump wanted, Please check V series catalogue

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

Type code for standard program

Design no

16	JV50	20
	JV15,JV18,JV38,JV42	95
	JV23,JV25 control at A,CH,GM,SA	30
	JV23,JV25 control at CJ,HQ,HK,D	35
	JV70	60

Control devic 3

17	No remoto control	Non
	Remoto control	RC

Shaft type

	JV10	JV15	JV18	JV23	JV25	JV38	JV42	JV50	JV70	
18	Key	■	■	■	■	■	■	■	■	K0
	Splind Shaft 9T	■	■	■	-	-	-	-	-	S1
	Splind 11T	△	△	△	-	-	-	-	-	S2
	Splind 13T	△	△	△	■	■	■	-	-	S3
	Splind 13T (longer type)	-	-	-	△	△	△	-	-	S4
	Splind 14T	-	-	-	-	-	-	△	△	S5
	Splind 15T	-	-	-	△	△	△	-	-	S6
	Splind 17T	-	-	-	-	-	-	△	△	S7

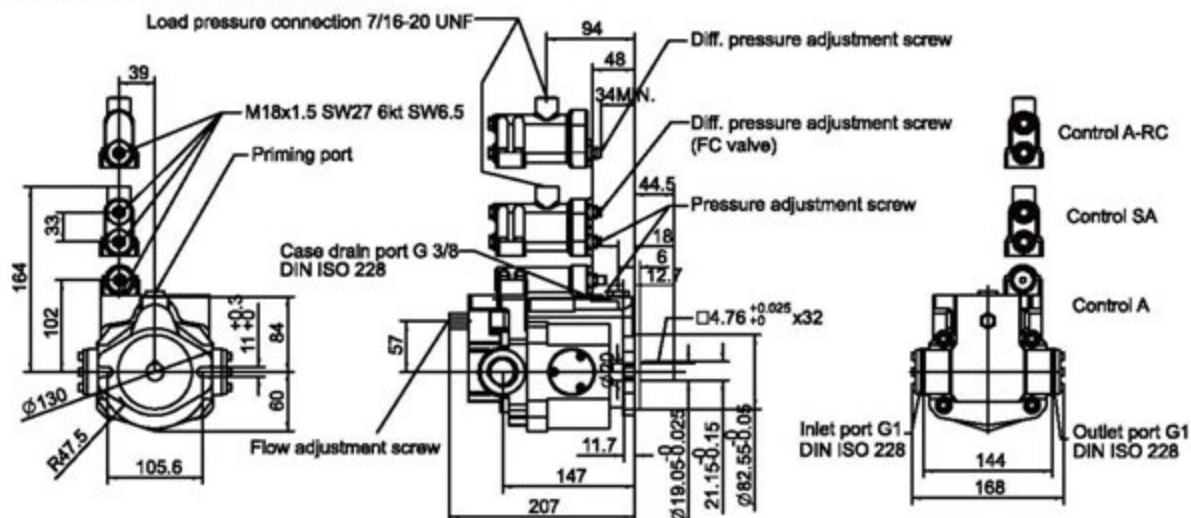
Thru drive & 2nd pump

	JV10	JV15	JV18	JV23	JV25	JV38	JV42	JV50	JV70	
19	Single pump	■	■	■	■	■	■	■	■	X ※
	82.55mm SAE A	■	■	■	-	-	-	-	-	A
	101.6mm SAE B	△	△	△	-	-	-	-	-	B

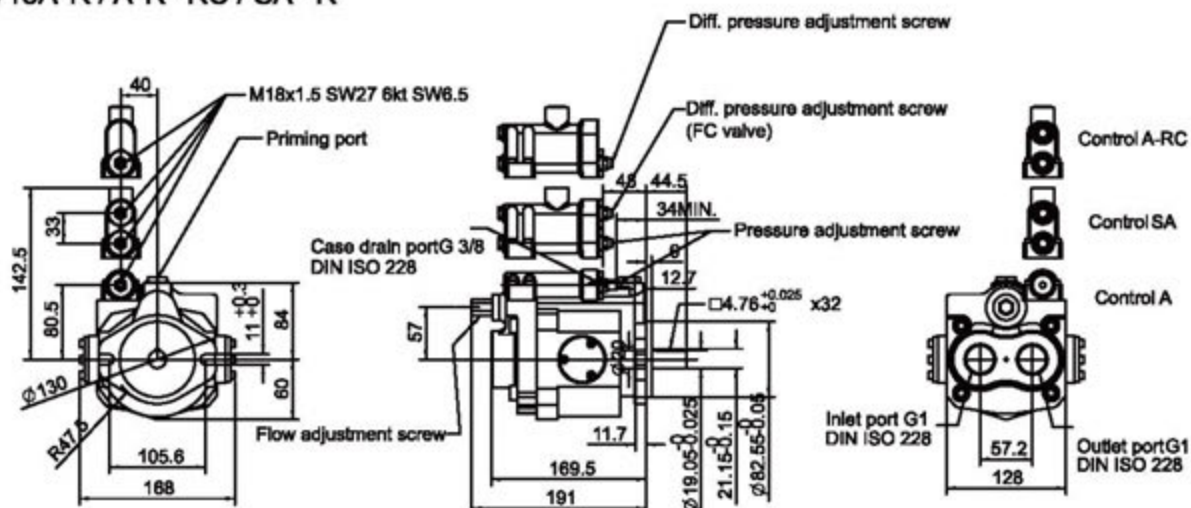
* Thru drive for side port pump only.

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

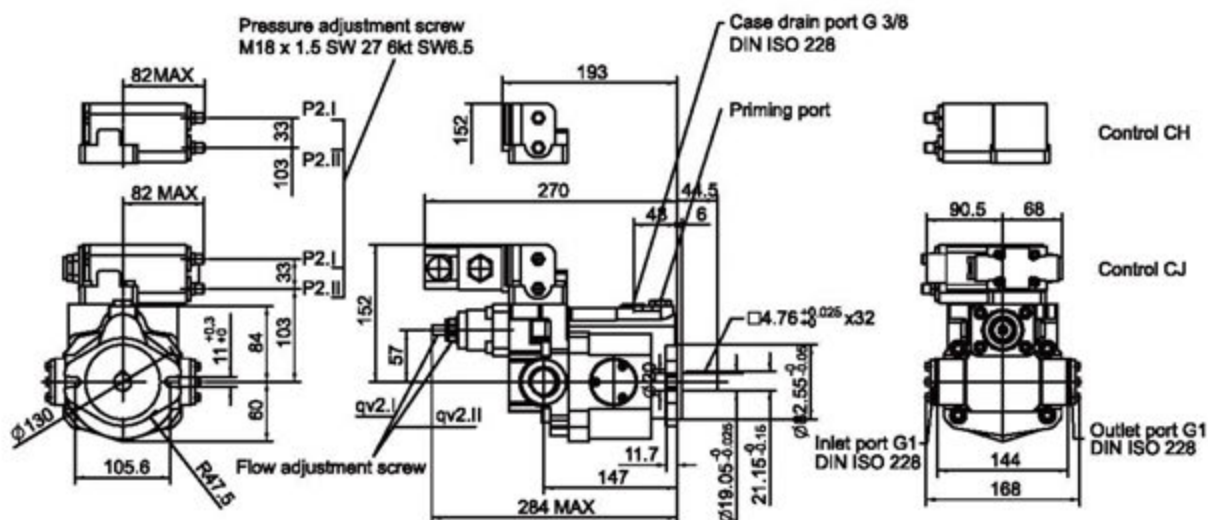
JV15A*RX / A*RX-*RC / SA**RX



JV15A*R / A*R-*RC / SA**R

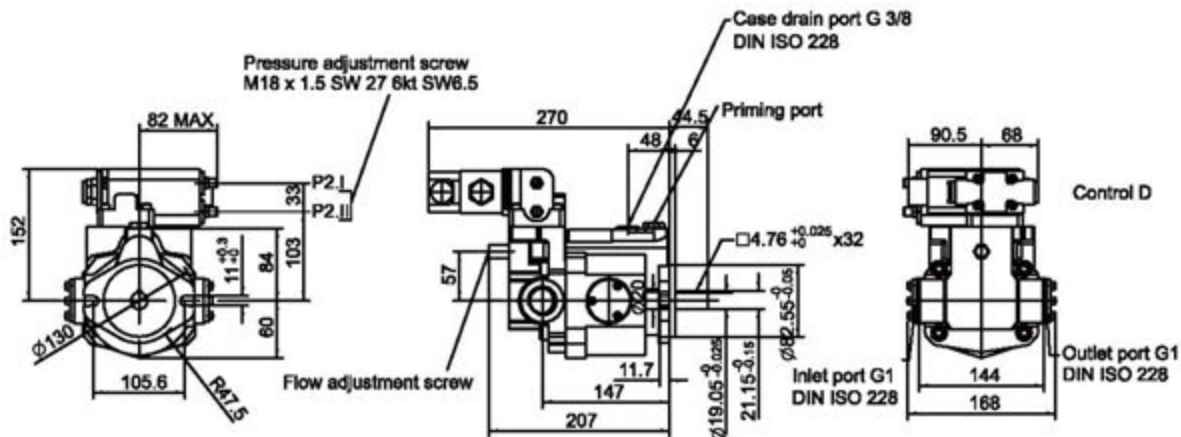


JV15C**RHX / C**RJ*X

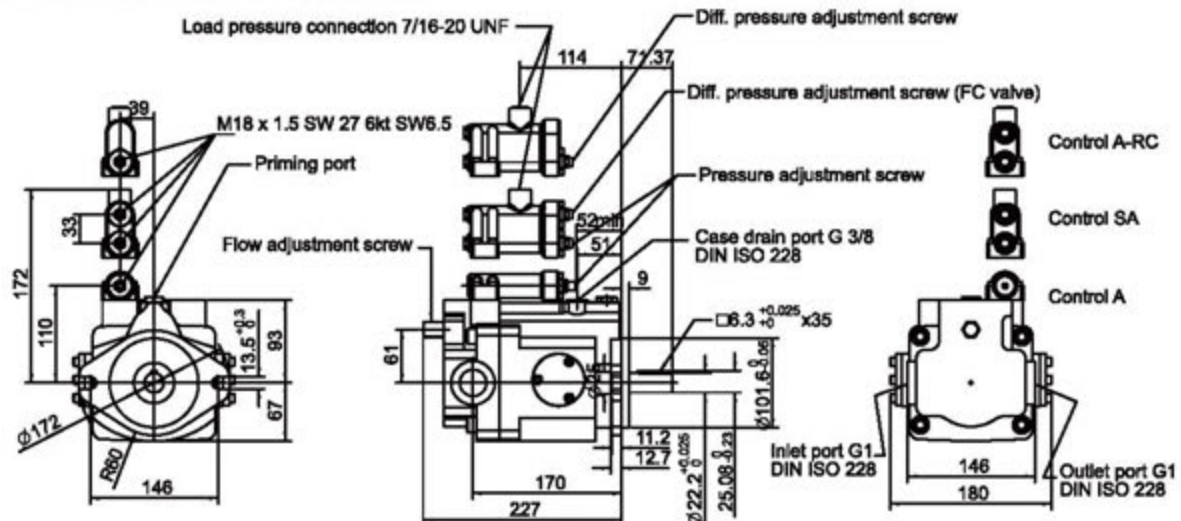


Dimension

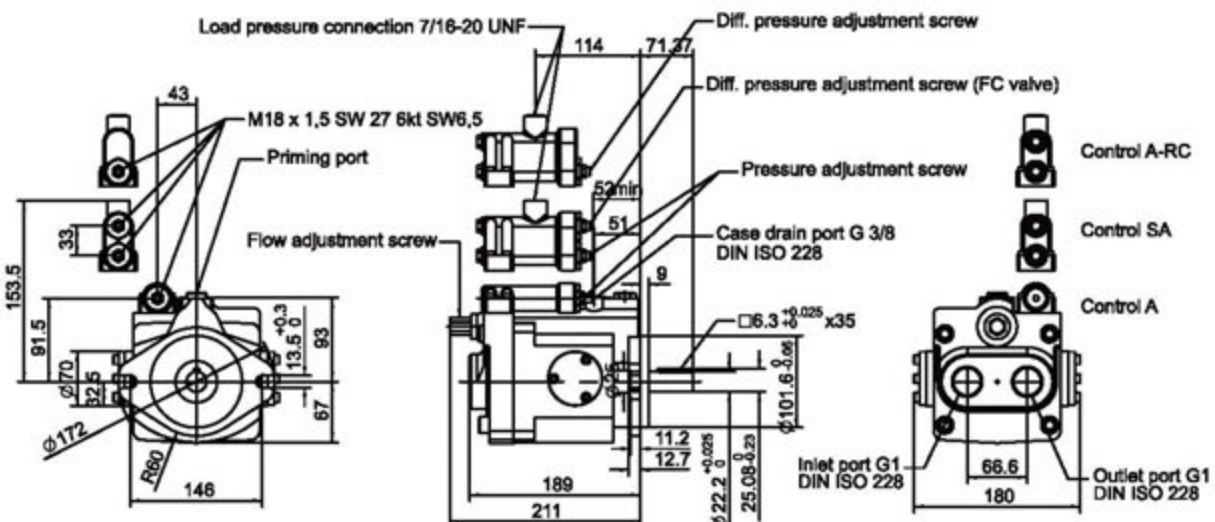
JV15C**RHX / C**RJ*X



JV23A*RX / A*RX-RC / SA**RX



JV23A**R / A**R-RC / SA**R



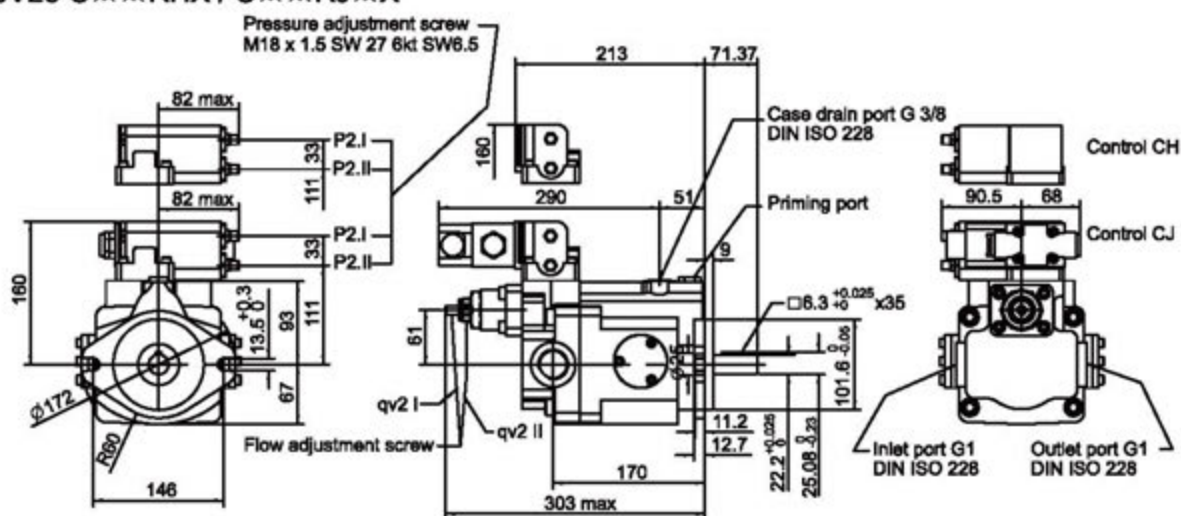
Dimension

A

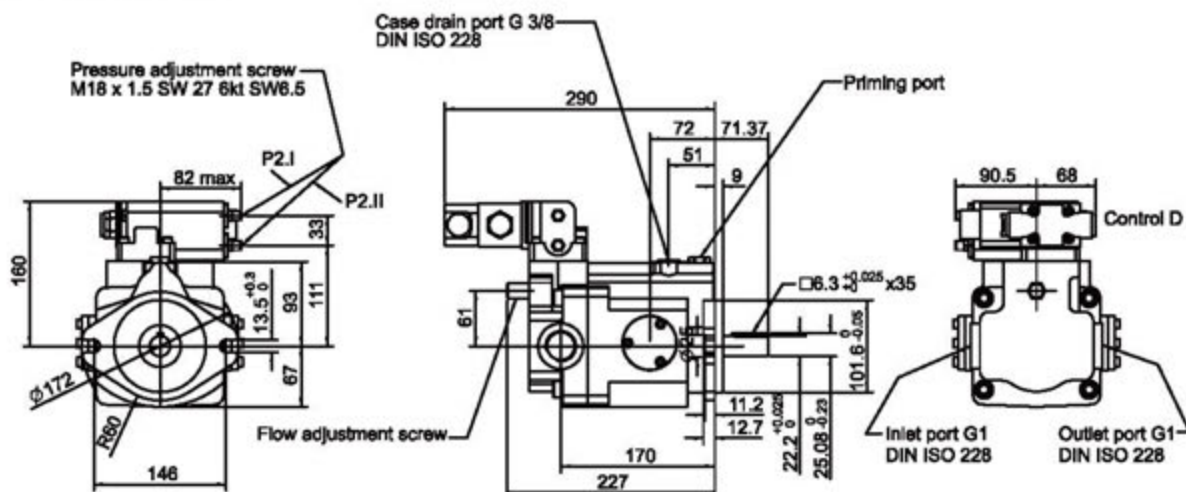
8

JV Axial piston pump

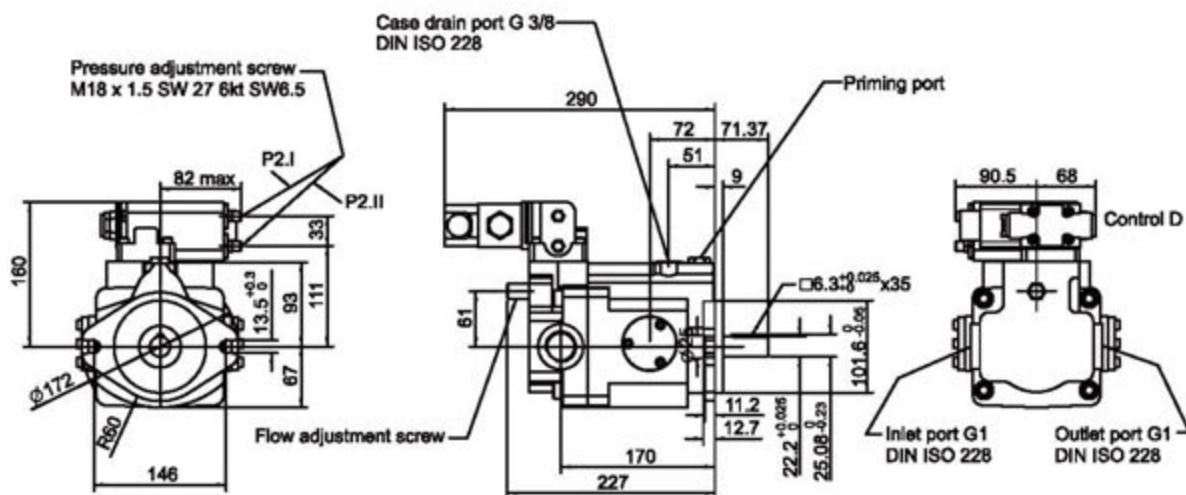
JV23 C※※RHX / C※※RJ※X



JV23 D※※R※X



JV23 D※※R※X



A



Load pressure connection 7/16-20 UNF

Diff. pressure adjustment screw

Diff. pressure adjustment screw (FC valve)

Pressure adjustment screw

Case drain port G 1/2 DIN ISO 228

Control A-RC

Control SA

Control A

Outlet port G1 1/4 DIN ISO 228

Inlet port G1 1/4 DIN ISO 228

Flow adjustment screw

Priming port

M18x1.5 SW27 6kt SW6.5

Dimensions: 120, 71.37, 75.4, 58 MIN, 51, 12.7, 9, 6.3 ±0.025 x35, 101.6 ±0.08, 25.08 ±0.23, 22.2 ±0.008, 11.2, 202, 222, 73, 159, 97.5, 146, 196, 110, 75, 13.5 ±0.3, 17, 156, 66.6

JV Axial piston pump

[illegible]

Technical drawings of the 418MAX pump assembly, showing front, side, and top views with dimensions and labels.

Front View (Left):

- Pressure adjustment screw M22 x 1.5 SW 32 6kt SW8
- Flow adjustment screw
- pv2.II
- 45°
- 181
- 134
- 100
- 260.5
- Ø161.9
- Ø154.0

Side View (Middle):

- Case drain port G 3/4 DIN ISO 228
- 418MAX
- 57
- 10
- 73
- Priming port
- 7.94 $\begin{smallmatrix} +0.03 \\ -0.01 \end{smallmatrix}$ x38
- 83
- qv2.II
- qv2.I
- 68.9
- 4xM12, 20set/ deep / prof.
- 35.7
- 256.5
- 300
- 73
- 18.5
- Ø31.75 $\begin{smallmatrix} +0.06 \\ -0.02 \end{smallmatrix}$
- 35.35
- Ø27.0 $\begin{smallmatrix} +0.03 \\ -0.02 \end{smallmatrix}$

Top View (Right):

- Control CH
- Inlet port SAE 1 1/2 SAE J518
- Outlet port SAE 1 1/2
- 208



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Innovative Technology

Efficient Performance

Reliable Quality and Service

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