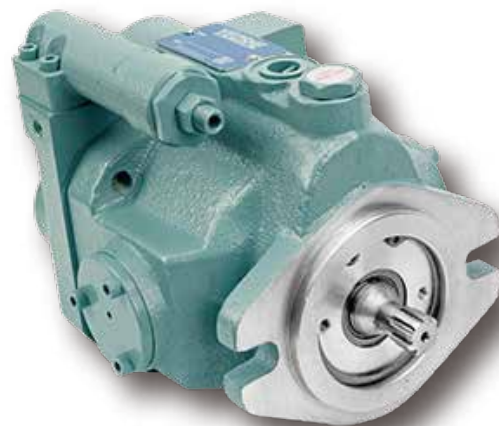




YEOSHE

Hydraulic Piston Pump JV Series



Efficient Performance
Innovative Technology
Reliable Quality and Service

www.yeoshehydraulic.com

YEOSHE HYDRAULICS CO.,LTD.



JV Axial piston pump

JV Series axial piston pump

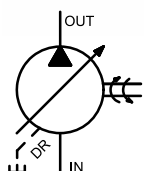
A

1

JV 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	ln 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	17.96				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
	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

◎Standard pressure control

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

◎Remote pressure control

	-	JV		A				-		RC		
1		2	3	4	5	12	15		16	17	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	-		RC		
1		2	3	4	7	8	12	13	15		16	17	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	-		RC		
1		2	3	4	7	8	12	13	14	15		16	17	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	-		RC		
1		2	3	4	9	10	12	14	15		16	17	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

A

2

JV Axial piston pump

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

11	7bar	A
	14bar	B
	21bar	C

Rotation

12	Clockwise	R
	Counter Clockwise	L

Control device 2

13	Self-regulating	H
	Solenoid valve	J

Voltage

14	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	
15	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

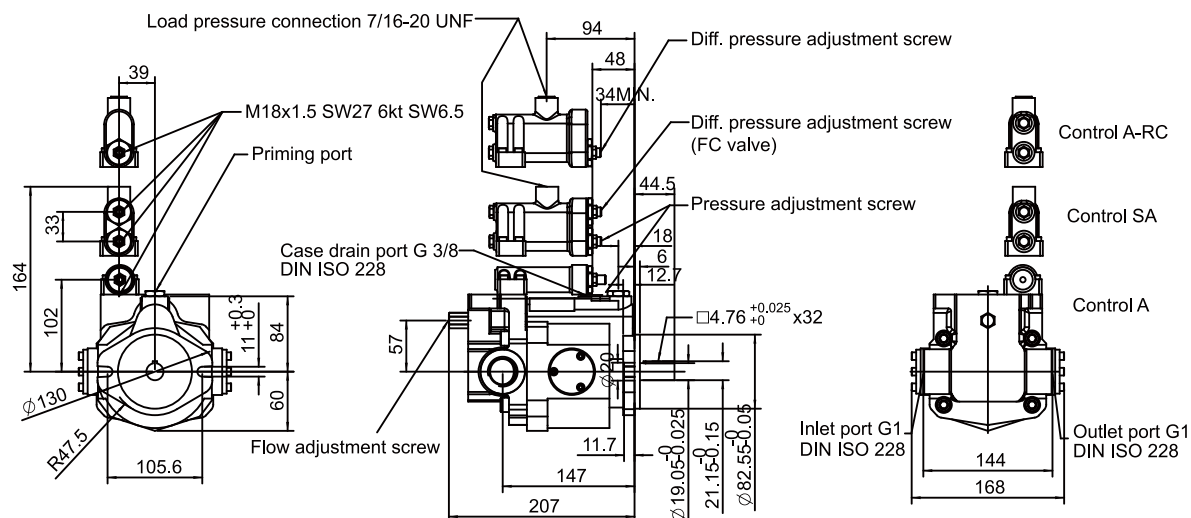
Thru drive & 2nd pump

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

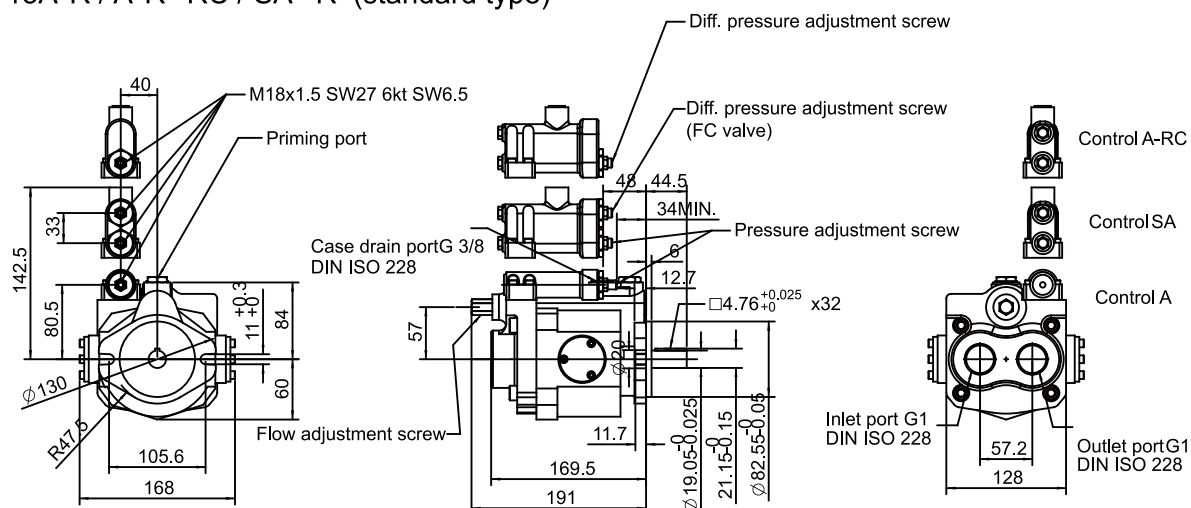
* Thru drive for side port pump only.

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

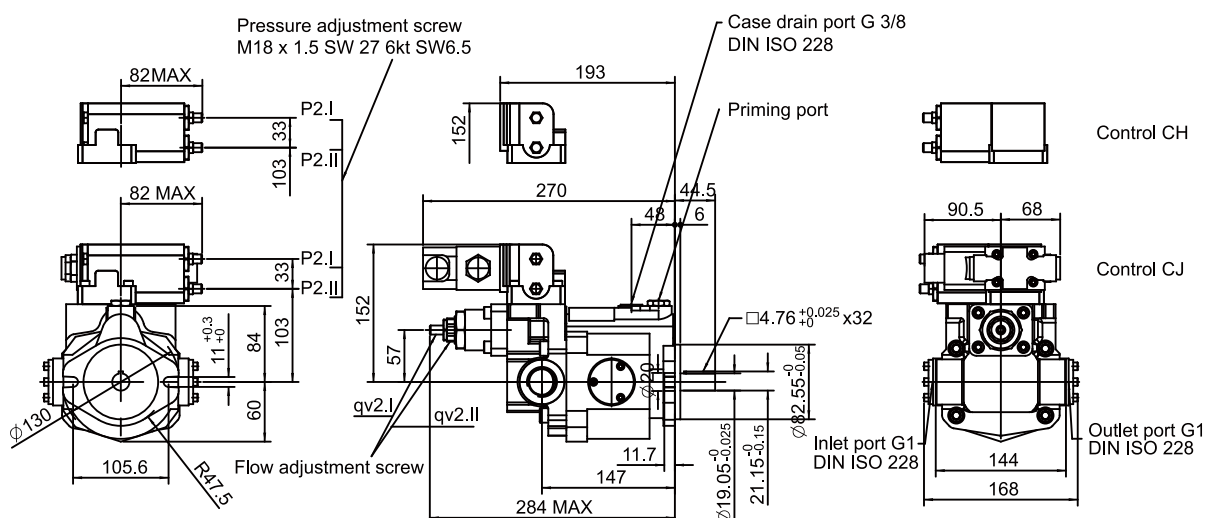
JV15A*RX / A*RX-*RC / SA**RX (custom made)



JV15A*R / A*R-*RC / SA**R (standard type)

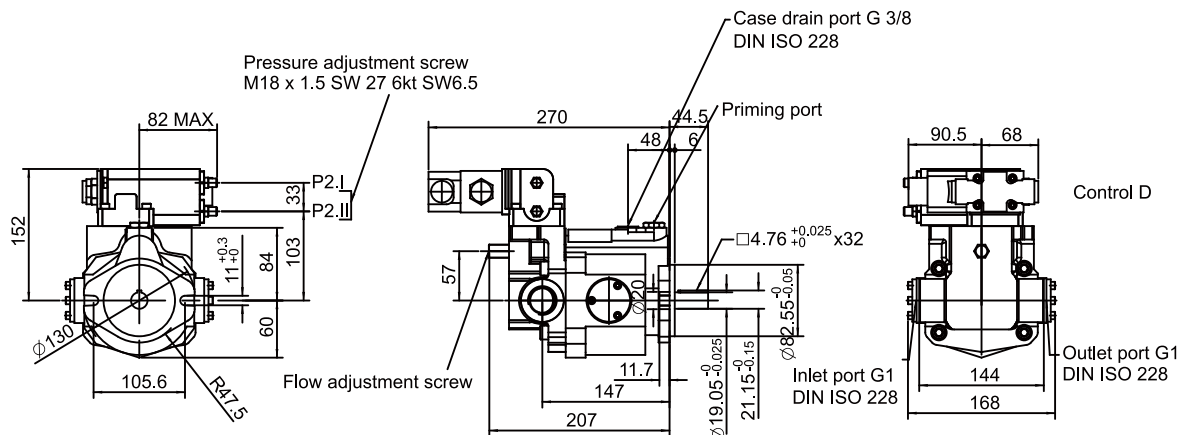


JV15C**RHX / C**RJ*X (custom made)

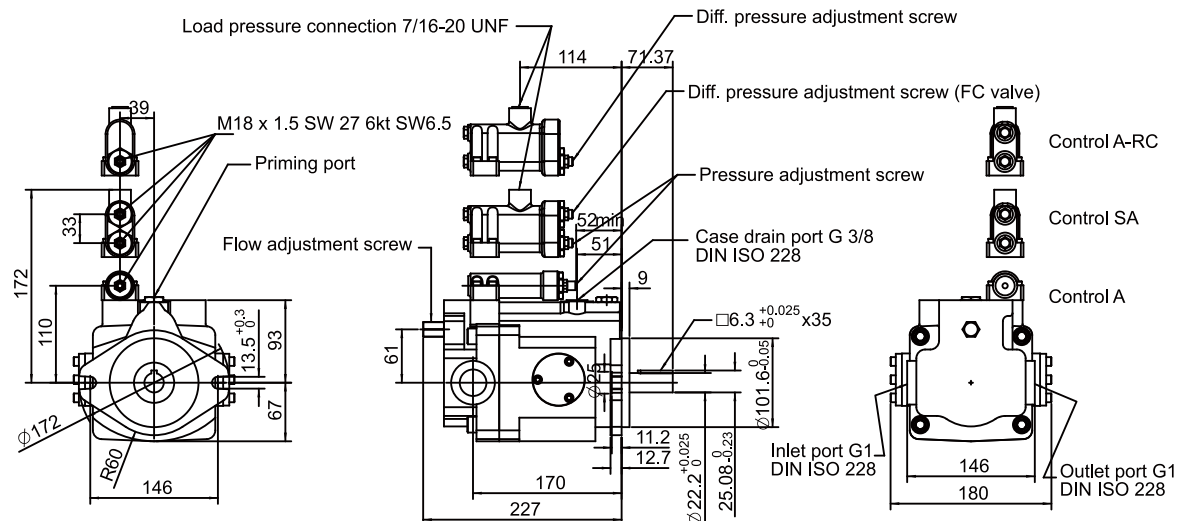


Dimension

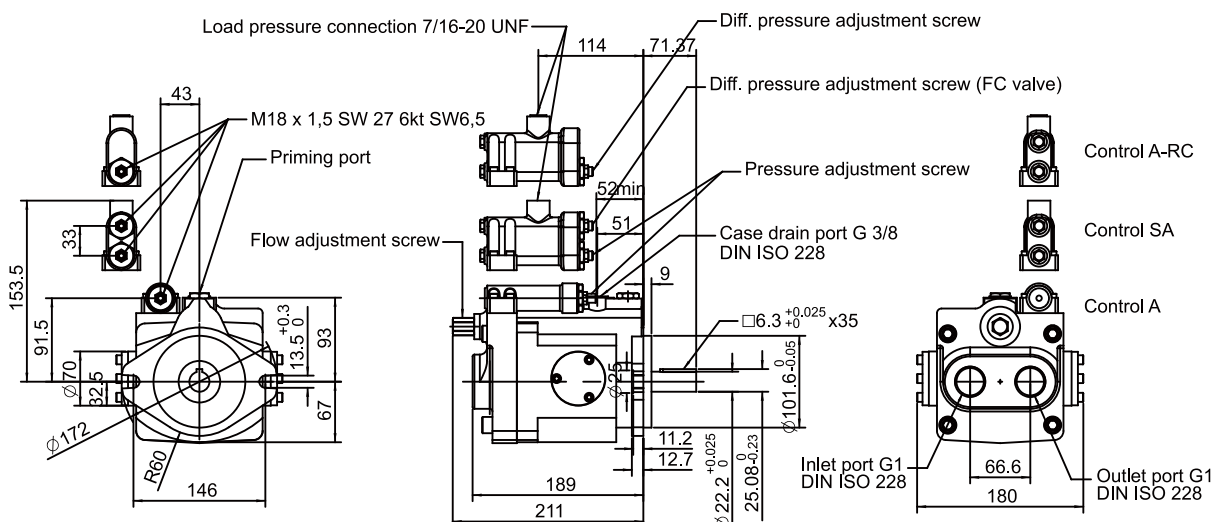
JV15C**RHX / C**RJ*X (custom made)



JV23A*RX / A*RX-RC / SA**RX (custom made)



JV23A**R / A**R-RC / SA**R (standard type)



JV Axial piston pump

[illegible]

Technical drawing of the 3000 series pressure washer, showing front, side, and top views with dimensions and labels.

Front View (Left):

- Pressure adjustment screw M18 x 1.5 SW 27 6kt SW6.5
- P2.I
- P2.II
- 82 max
- 33
- 111
- 93
- 13.5^{+0.3}₀
- 67
- Ø172
- R60
- 146
- Flow adjustment screw

Side View (Middle):

- Case drain port G 3/8 DIN ISO 228
- 290
- 72
- 51
- 71.37
- 9
- 61
- 170
- 227
- 11.2^{+0.025}₀
- 12.7
- 22.2^{+0.025}₀
- 25.08^{+0.23}₀
- 6.3^{+0.025}₊₀ x35
- 101.6^{+0.05}₀
- Priming port

Top View (Right):

- Control D
- 90.5
- 68
- Inlet port G1 DIN ISO 228
- Outlet port G1 DIN ISO 228

Pressure adjustment screw
M18 x 1.5 SW 27 6kt SW6.5

Case drain port G 3/8
DIN ISO 228

Priming port

P2.I

P2.II

Flow adjustment screw

Control D

Inlet port G1
DIN ISO 228

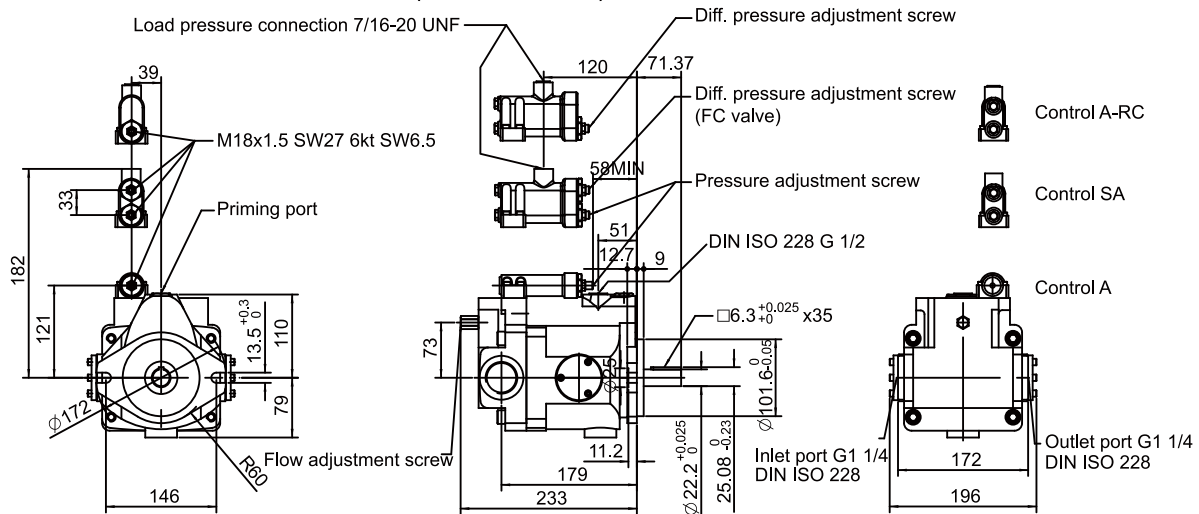
Outlet port G1
DIN ISO 228

Dimensions: 160, 82 max, 33, 111, 93, 67, 146, 172, R60, 290, 72, 71.37, 51, 9, 61, 170, 227, 11.2, 12.7, 22.2, 25.08, 101.6, 6.3, 90.5, 68.

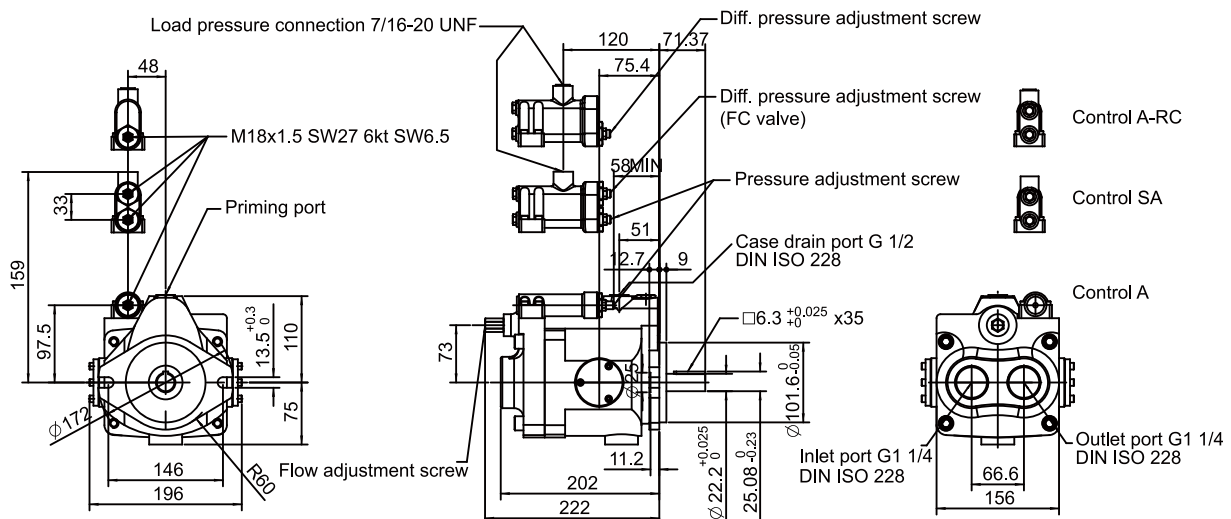
Material: $\square 6.3^{+0.025}_{-0} \times 35$

Dimension

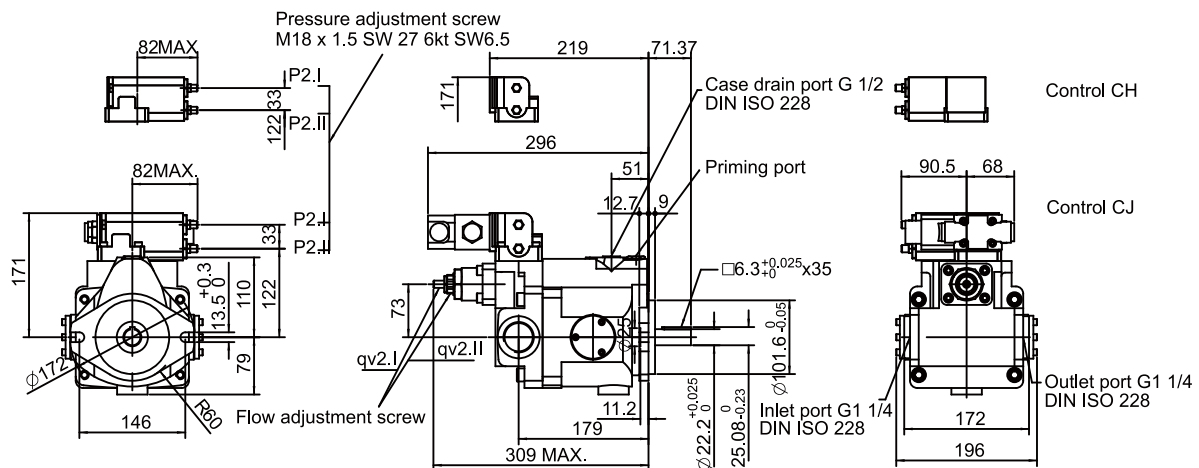
JV38A*RX / A*RX-*RC / SA**RX (custom made)



JV38A*R / A*R-*RC / SA**R (standard type)



JV38 C**RHX / C**RJ*X (custom made)



A

JV Axial piston pump

Technical drawing of the 3000 series pressure washer, showing three views: front, side, and top. The front view shows a width of 146mm and a height of 171mm. The side view shows a length of 233mm and a height of 179mm. The top view shows a width of 196mm and a height of 172mm. Key features include a pressure adjustment screw (M18 x 1.5 SW 27 6kt SW6.5), a flow adjustment screw, a priming port, a case drain port (G 1/2 DIN ISO 228), an inlet port (G1 1/4 DIN ISO 228), and an outlet port (G1 1/4 DIN ISO 228). Dimensions are given in millimeters.

Load pressure connection 7/16-20 UNF

Diff. pressure adjustment screw (FC valve)

Pressure adjustment screw M22 x 1.5 SW 32 6kt SW8

45°±0.5

Ø15±0.4

Flow adjustment screw

119

260.5

132

166

18

100

4xM12, 20tief/ deep / prof.

Ø161.9

320

183

57

M22 x 1.5 SW 32 6kt SW8

Case drain port G 3/4 DIN ISO 228

102 mm

73

10

Priming port

□ 7.94^{+0.03}/_{+0.015} x38

83

69.9

35.7

256.5

73

18.5

31.75⁰/_{-0.05}

35.35⁰/_{-0.2}

Ø127⁰/_{-0.05}

Control SA

Lifting eye bolt

Control A-RC

Control A

192

Inlet port SAE 1 1/2 SAE J518

Outlet port SAE 1 1/2

208

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

Front View (Left):

- Pressure adjustment screw M22 x 1.5 SW 32 6kt SW8
- Flow adjustment screw
- pv2.I, pv2.II
- 45° angle
- Dimensions: 181, 134, 18, 100, 260.5
- Port sizes: $\varnothing 161.9$, $\varnothing 150.4$

Side View (Middle):

- Case drain port G 3/4 DIN ISO 228
- 418MAX.
- 57, 10, 73
- Priming port
- qv2.I, qv2.II
- 83, 69.9, 35.7, 256.5, 300, 73
- 4xM12, 20tieff / deep / prof.
- Port size: $\varnothing 40$
- Dimension: $7.94^{+0.03}_{-0.015} \times 38$
- Port sizes: $\varnothing 177^{+0.05}_{-0.0}$, $\varnothing 175^{+0.05}_{-0.0}$, $35.35^{+0.2}_{-0.0}$

Top View (Right):

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



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