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# V series piston pump



## Features

- Low noise
  - O Realized low noise operation in overall pressure area on each series.
- High efficiency
  - O il temperature rise can be reduced due to the less power-loss. Accordingly, it is possible to design the tank in small size.
- High reliability
  - O High response, high stability, and long life make it possible to increase the reliability of the main machine.



## Pressure adjusting range table

### • Pressure compensator control

### (5) Pressure adjusting range

Mark	Pressure adjusting range	Without remote controller system							With remote controller system				
IVIAIK	MPa {kgf/cm <sup>2</sup> }	V8	V15	V23	V38	V50	V70	V15	V23	V38	V50	V70	
1	0.8~7 {8~70}	0	0	0	0	—	—	—	—	—	—	-	
1	1.5~7 {15~70}	_	—	_	—	0	0	—	—	—	—	-	
2	1.5~14 {15~140}	_	0	0	0	0	0	—	—	—	—	-	
3	1.5~21 {15~210}	_	—	_	—	—	—	0	0	0	—	—	
3	2~21 {20~210}	_	—	_	—	—	—	—	—	—	0	0	
3	3.5~21 {35~210}	_	0	0	0	0	0	—	—	—	—	—	
4	1.5~25 {15~250}	_	—	_	—	—	—	—	0	0	—	—	
4	3.5~25 {35~250}	_	—	0	0	—	—	_	_	—	—	_	

### • Combination control

#### (7) Low pressure adjusting range

Mark	Pressure adjusting range	Self pressure method				Solenoid operated valve method		
IVIAI K	MPa {kgf/cm <sup>2</sup> }	V15	V23	V38	V70	V15	V23	V38
1	1.5~7 {15~70}	—	—	—	0	0	0	0
1	2.5~7 {25~70)	0	0	0	—	—	—	—
2	1.5~14 {15~140}	—	—	—	0	0	0	0
2	2.5~14 {25~140}	0	0	0	—	—	—	—

#### (8) High pressure adjusting range

Mark	Pressure adjusting range		Self pressu	ure method	Solenoid operated valve method			
IVIAIK	MPa {kgf/cm <sup>2</sup> }	V15	V23	V38	V70	V15	V23	V38
1	1.5~7 {15~70}	_	—	—	0	0	0	0
1	2.5~7 {25~70}	0	0	0	—	—	—	_
2	1.5~14 {15~140}	_	_	—	0	0	0	0
2	2.5~14 {25~140}	0	0	0	_	—	—	_
3	3.5~21 {35~210}	0	0	0	0	0	0	0
4	3.5~25 {35~250}	_	0	0	_	_	0	0

### • Dual pressure control

#### (9) Low pressure adjusting range

Mark	Pressure adjusting range MPa {kgf/cm <sup>2</sup> }	V15	V23	V38
1	1.5~7 {15~70}	0	0	0
2	1.5~14 {15~140}	0	0	0

Note) If both low and high pressure adjusting range are the pattern 1, the addjusting pressure range becomes 0.8~7MPa {8~70kgf/cm<sup>2</sup>}.

### • Power match control

#### (6) Pressure adjusting range

Mark	Pressure adjusting range MPa {kgf/cm <sup>2</sup> }	V15	V23	V38	V50	V70
1	0.8~7 {8~70}	0	0	0		—
1	1.5~7 {15~70}	-	—	—	0	0
2	1.5~14 {15~140}	0	0	0	0	0
3	3.5~21 {35~210}	0	0	0	0	0
4	3.5~25 {35~250}	_	0	0	_	_

#### (10) High pressure adjusting range

Mark	Pressure adjusting range MPa {kgf/cm <sup>2</sup> }	V15	V23	V38
1	1.5~7 {15~70}	0	0	0
2	1.5~14 {15~140}	0	0	0
3	3.5~21 {35~210}	0	0	0
4	3.5~25 {35~250}	_	0	0

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### Nomenclature



## Specifications

Model No.	Theoretical displacement	Operating pressure MPa {kgf/cm <sup>2</sup> }		Permissible rotation speed	Displacement adjusting range 1800min <sup>-1</sup>	Weight (with control method A) kg	
	cm³/rev	Max.	Rating	min₁	L/min	Axial port	Side port
V8	8.0	7 {70}	7 {70}	500~1800	4~14.4	_	8.9
V15	14.8	21 {210}	14 {140}	500~1800	5.6~26.6	12.8	14.5
V15 (Y type)	14.8	7 {70}	7 {70}	500~1800	5.6~26.6	13.5	
V23	23.0	25 {250}	17.5 {175}	500~1800	11~41.4	18.4	21.5
V38	37.7	25 {250}	17.5 {175}	500~1800	28~68	24.4	26
V50	51.6	21 {210}	14 {140}	500~1800	0~93	_	50
V70	69.8	21 {210}	14 {140}	500~1800	20~126		55

Note) JR-G(T)02 and JRP-G02 are recommended for the relief valve of the remote control system.

When the vent port is blocked, the pressure compensation structure doesn't work, and it comes to be a fixed pump state.

•Since foot is not attached to the pump, you might order it separately in at your use.