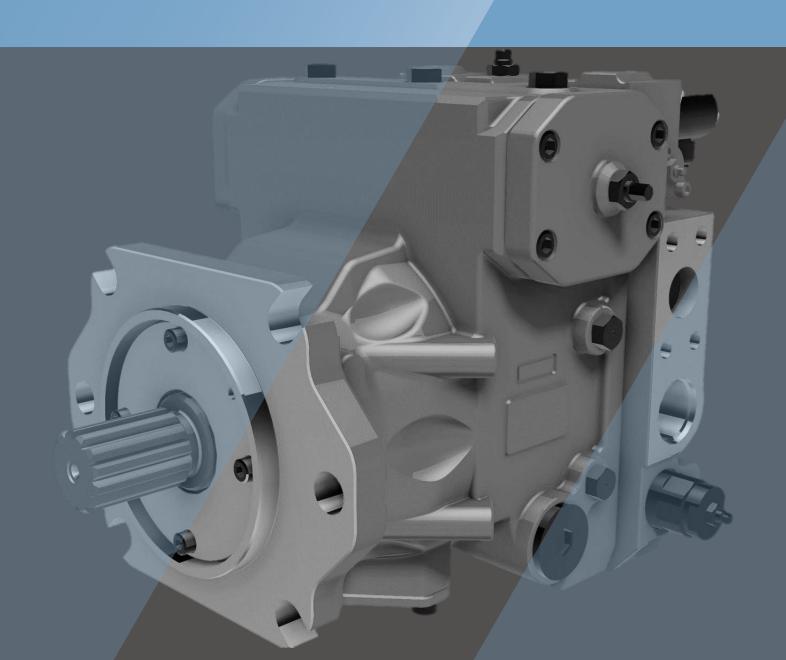
Closed Loop Swash Plate Type Axial Piston Pump K8V series



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I. Applications / Product Usage

The following must be taken into consideration before use.

- 1. The operating condition of the products shown in this catalog varies depending upon each application. Therefore, the product suitability must be judged by the designer of the hydraulic system and/ or the person who finalizes the technical specifications of the machine after analysis and testing. The product specification shall be determined based on the latest catalog and technical documents. The system must be designed taking into account the possibility of machine failure to ensure that all safety, warning, and application requirements are met.
- 2. For the proper use of the products, descriptions given in the SAFETY PRECAUTIONS must be observed.
- The technical information in this catalog represents typical characteristics and performance of the products as of the published date.

- 4. If the products are intended to use in the following, please consult with Kawasaki in advance.
 - (1) Use the product under the operating conditions or environments other than those described in the technical documents.
 - (2) Use the product in the nuclear sector, aviation sector, medical sector, and/or food sector.
 - (3) Use the product in applications which may cause substantial harm to others and their property, and especially in applications where ensuring safety is a requirement.
- 5. The information described in this catalog is subject to change without notice. For the latest information, please contact Kawasaki.

II. Safety Precautions

Before using the product, you MUST read this catalog and MUST fully understand how to use the product. To use the product safely, you MUST carefully read all Warnings and Cautions in this catalog.

1. Cautions related to operation



- Use the personal protective equipment to prevent injury when the product is in operation.



- Some components are heavy. Handle the product carefully not to hurt your hands and lower back.



- Do not step on, hit or drop, or apply strong force to the product, as these actions may cause operation failure, product damage, or oil leakage.



- Wipe off any oil on the product or the floor completely, as oil can create slippery conditions that may cause drop of the product and personal injury.

2. Warnings and Cautions related to installation and removal of the product



- Installation, removal, piping, and wiring must be done by a qualified technician.



- Make sure that the hydraulic power unit is turned off and that the electric motor or engine has completely stopped before starting installation or removal. You must also check that the system pressure has dropped to zero.



- Make sure that the power source is turned off before installing electric components to reduce the risk of electric shock.



- Clean the threads and the mounting surface to prevent damage or oil leakage. Inadequate cleaning may cause insufficient torque and broken seals.



- Use the designated bolts and fasten them with prescribed torque when installing the product. Use of undesignated bolts, and excessive or insufficient tightening torque may induce operation failure, damage, or oil leakage.

3. Warnings and Cautions for operation



- Always equip the product with explosion or ignition protection if it is used in potentially explosive or combustible atmospheres.



- Shield rotary parts, such as the motor and pump shaft, to avoid injury.



- Stop operation immediately, and take proper measures when the abnormality such as unusual noise, oil leakage, and smoke is found. Continuing operation under such condition may bring about damage, a fire hazard, or injury.



- Make sure that all pipes, hoses, and connecting points with pipes or hoses, are correctly connected and tightened before starting operation.



- Use the product under the operating conditions and limitations described in the catalog, drawings, and specification sheets.



- Do not touch the product in operation, to reduce the risk of skin burn.



- Use the proper hydraulic oil and maintain the filtration at the recommended level to prevent premature wear and damage.

4. Cautions related to maintenance



- Never modify the product without approval from Kawasaki.



- Disassembly of the product may void the warranty.



- Keep the product clean and dry when storing or transporting.



- The seals may need to be replaced if the product has been stored for an extended period of time.

1. Operating Fluid and Temperature Range

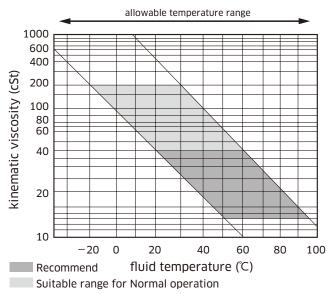
1) Operating Fluid

Values shown in this catalog are based upon using mineral oil based anti-wear hydraulic fluid. To ensure optimal performance use of mineral oil based anti-wear hydraulic fluid is recommended.

2) Viscosity and Temperature Range

To minimize both oil and seal deterioration, a maximum operating temperature of 60°C should be considered. Additionally it must be noted that when operating at low temperatures in winter (15 $\sim 20^{\circ}\text{C}$) some delay in response of the regulator may occur. At such low temperatures it is strongly suggested that a warm up cycle is introduced until an operating temperature of 20°C is achieved.

	Suitable range for Normal operation	Allowable range
Viscosity [mm²/s(cSt)]	10 ~ 200	10 ~ 1,000
Fluid Temperature [°C (°F)]	−20 ~ +95	(-4 ~ +203)



2. Filtration and Contamination Control

1) Filtration of Working Oil

The most important means to prevent premature damage to the pump and associated equipment and to extend its working life, is to ensure that hydraulic fluid contamination control of the system is working effectively.

This begins by ensuring that at the time of installation that all piping, tanks etc. are rigorously cleaned in a sanitary way. Flushing should be provided using an off line filtration system and after flushing the filter elements should be replaced.

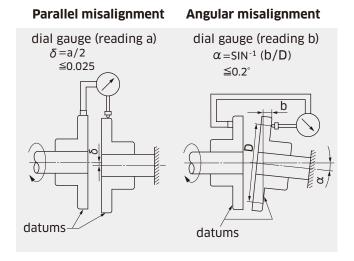
2) Suggested Acceptable Contamination Level

The relationship between contamination level and pump life is very difficult to predict as it depends on the type and nature of the contaminant present in the system. Sand or Silica in particular, due to its abrasive nature, does significantly reduce the expected life of a pump. Based on the precondition that there is no significant presence of Silica type substances then a minimum Cleanliness level of -/18/15 ISO 4406 or SAE AS 4059E Table 1 Class 9 (NAS 1638 Class 9).

3. Drive Shaft Coupling

Alignment between the prime mover and the pump shaft should be within a tolerated margin, that is, parallel misalignment within 0.05mm TIR* and angular misalignment within 0.2° TIR*. In case the pump is directly coupled to the engine flywheel, use a flexible coupling.

*TIR = Total Indicator Reading



4. Oil Filling and Air Bleeding

1) Pump Case Filling

Be sure to fill the pump casing with oil through the drain port, filling only the suction line with oil is totally in-sufficient. The pump contains bearings and high-speed sliding parts including pistons with shoes and a spherical bush that need to be continuously lubricated. Part seizure or total premature failure will occur very quickly if this procedure is not rigidly followed.

2) Air Bleeding

Run the pump unloaded for a period to ensure that all residual air within the system is released.

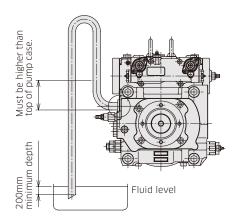
3) Long Term Out of Usage

It is undesirable to leave the pump out of use for a long period e.g. a year or more. In such a situation it is recommended that the pump is run for a short period on a more frequent basis even if it is just unloaded. With regard to a pump held in storage then rotating the shaft on a frequent basis is sufficient. If the pump is left out for more than the suggested time it will require a service inspection.

5. Drain Piping

1) Installation of Drain Line

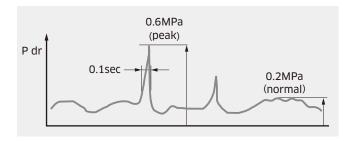
It is the preferred option to mount the pump with the case drain piping initially rising above the pump before continuing to the tank. Do not connect the drain line to the inlet line.



Cautions

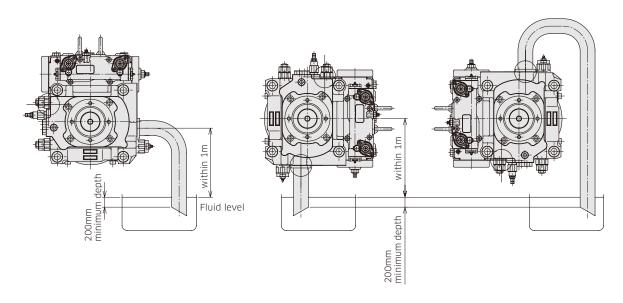
- **A)** Inlet and drain pipes must be immersed by 200 mm minimum from the lowest level under operating conditions.
- **B)** Height from the oil level to the centre of the shaft must be within 1 meter maximum.
- **C)** The oil in the pump case must be refilled when the pump has not been operated for one month or longer.

The uppermost drain port should be used and the drain piping must be larger in size than the drain port to minimize pressure in the pump case. The pump case pressure must not exceed 0.2 MPa as shown in the illustration below. (Peak pressure most never exceed 0.6 MPa.)



Mounting the Pump Above the Tank

Suction line



2) Size of Drain Hose or Drain Pipe

The internal bore size of the drain hose or drain pipe must be larger than that of the drain port. Arrange the drain line as short as possible.

6. Shaft Loading and Bearing Life

Although K8V pumps are equipped with bearings that can accept some external radial forces, exertion of external radial loads will affect bearing life. Depending on the load magnitude, the load position, and the load orientation, bearing life may be influenced and reduced.

Consult with Kawasaki for further details.

IV. Conversion Factors, Formula and Definition

Conversion Factors

	Formula	Note
Displacement	1 cm ³ = 0.061 in ³	
Pressure	1 MPa = 145 psi	
Flow	1 L/min = 0.264 gpm	US gallon
Torque	1 Nm = 0.74 lb ft	
Power	1 kW = 1.341 hp	_
Weight	1 kg = 2.205 lbs	

Formula

	Metric system		Imperial system	
Output flow	$Q = q \times N \times \eta_{v} / 1000$	L/min	$Q = q \times N \times \eta_{v} / 231$	gal/min
Input torque	$T = q \times \Delta P / 2\pi / \eta_m$	Nm	$T = q \times \Delta P / 24\pi / \eta_m$	lbf-ft
Input power	L = T x N / 9550 = Q x Δ P / 60 / η_{t}	kW	L = T x N / 5252 = Q x Δ P / 1714 / η_{t}	hp

Definition

q	=	Pump displacement / rev.	cm³ (in³)
L	=	Input power	kW (hp)
N	=	Speed	min ⁻¹ (rpm)
N _{max}	=	Maximum speed at maximum displacement	min ⁻¹ (rpm)
ΔΡ	=	P _{high} - P _{low} (Differential pressure)	MPa (psi)
Phigh	=	High pressure	MPa (psi)
Plow	=	Low pressure	MPa (psi)
Prated	=	Rated pressure	MPa (psi)
Ppeak	=	Peak pressure	MPa (psi)
Pc	=	charge pressure	MPa (psi)
Т	=	Input torque	Nm (lbf-ft)
T _{max}	=	Maximum input torque	Nm (lbf-ft)
$\eta_{_{\vee}}$	=	Pump volumetric efficiency	
η_{m}	=	Pump mechanical efficiency	
η_{t}	=	Pump total efficiency	

MEMO

K8V Series

Closed-Loop Variable Displacement Type Axial Piston Pump



Specifications

Size: 71*, 90, 125 Rated Pressure: 40 MPa Peak Pressure: 45 MPa

■General Descriptions

The K8V series are variable displacement axial piston pumps for closed loop systems, with superior overall efficiency, stability, and control characteristics.

The K8V pumps are applicable for a wide range of applications, including industrial vehicles such as construction machinery, agricultural equipment with hydrostatic drive systems, and other closed loop applications. Also, this pump can be used in combination with M7V series motors for high pressure closed loop applications.

The K8V series with a range in pump size from 71 to 125 are equipped with electric or hydraulic pilot displacement control. The K8V series pumps, having the integrated components required for a closed system, such as a charge pump, high and low pressure relief valves, and a cut-off valve, enable a compact closed loop system.

■Features

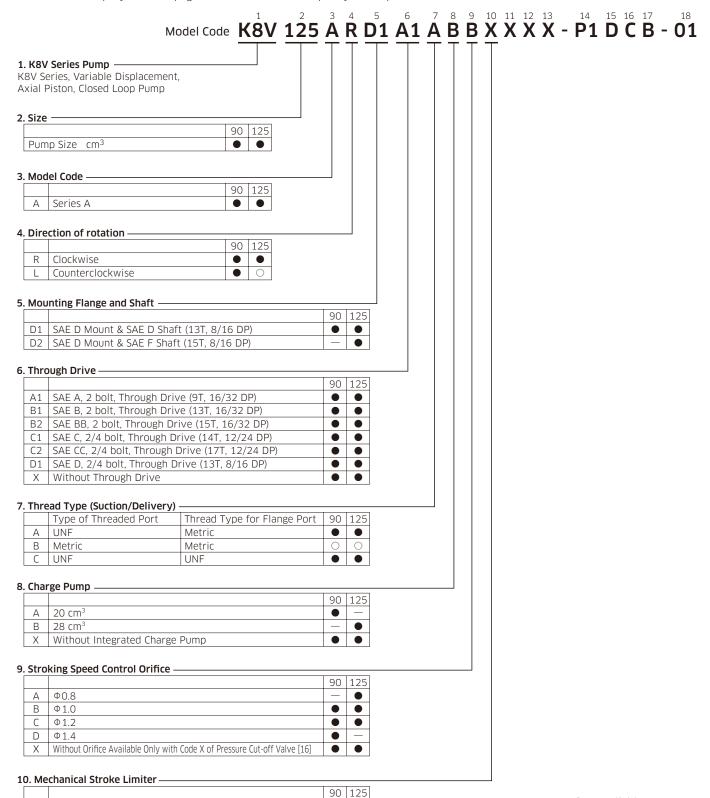
- Swash plate type, variable displacement axial piston pump for closed loop system
- High overall efficiency
- Suitable for wide range of applications
- Precise flow control
- High stability
- Excellent reliability
- Various integrated valves
- Bypass function for emergency towing

(*) means under development

1 Ordering Code

1-1 Pump Options

Please fill the Inquiry Form on page 32 and 33 in order to specify the requirement.



lacksquare

• : Available

-: Not available

 \bigcirc : Under development

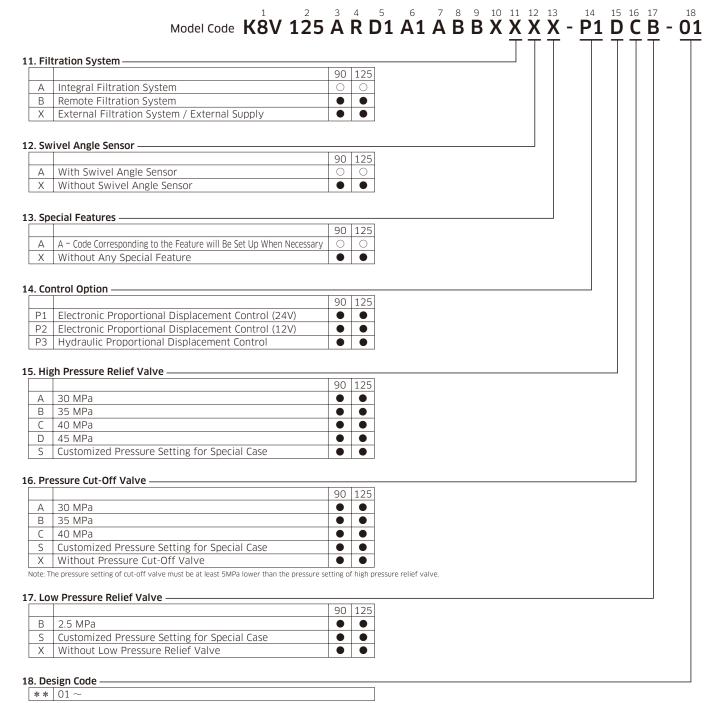
With Mechanical Stroke Limiter

Without Mechanical Stroke Limiter

1. Ordering Code

1-2 Regulator Options

Please fill the Inquiry Form on page 32 and 33 in order to specify the requirement.



• : Available

○ : Under development

— : Not available

2-1 Specifications

Size			90	125
Displacement	Main pump	cm ³	90	130
	Charge pump	cm ³	20	28
Pressure, main	Rated	MPa	40	
Pressure, main	Peak MPa		4	15
Droccuro chargo	Rated MPa		2.5	
Pressure, charge	Peak	MPa	4	.0
Allowable case pressure		MPa	0.2 continuo	us / 0.6 peak
	Rated*1	min ⁻¹	3,050	2,850
Speed	Maximum* ² (intermittent) min ⁻¹	3,800	3,450
	Minimum	min ⁻¹	500	500
Case volume		L	3.0	4.0
Temperature range		°C	$-20\sim +95$ (case drain: 115 maximum, intermittent)	
Viscosity range		cSt	$10 \sim 1{,}000$	
Maximum contamination I	evel		ISO 4406 -/18/15	
		SAE A	123	123
		SAE B	395	395
Allowable through drive torque Nm		SAE BB	575	640
		SAE C	575	725
		SAE CC	575	830
		SAE D	575	830
Mass	Mass kg			95

^{*1:} maximum allowable speed for continuous operation.

Note:

Operation above the maximum values or below the minimum values may result in a loss of function, a reduced service life or the destruction of the pump.

■ Allowable Maximum Input Torque

	SAE D (Spline type D1)	SAE F (Spline type D2)
Spline Specification	13T DP=8/16	15T DP=8/16
Allowable Maximum Input Torque (Nm)	1,470	2,255
Pump Size	K8V90/125	K8V125 (Combination pump)

Input spline specification is based on SAE J744.

Involute spline according to ANSI B92.1a, 30° pressure angle, flat root, side fit.

Two options of mounting flange and shaft, D1 and D2, are available for K8V125 pumps.

In case of a combination pump of K8V125 which requires higher input torque than 1470 Nm, D2 option must be used. The shaft surface will have a finite life due to wear unless adequate lubrication is provided.

^{*2:} maximum allowable speed for limited operating period and duty. Exceeding this value will result in a reduced service life or the destruction of the pump.

2-1 Specifications

Relief Valve

1. High pressure relief valve

High pressure relief valves (two valves) are equipped to protect the pump from being overloaded.

The high pressure relief valves act to protect the pump from pressure spikes in dynamic control situations and are not equipped for continuous operation.

The settings of the high pressure relief valves are shown in the table below.

Pressure Settings

Code[5]	Pressure Setting (MPa)
А	30
В	35
С	40
D	45
S	Customized pressure setting for a special case Please contact Kawasaki.

Note:

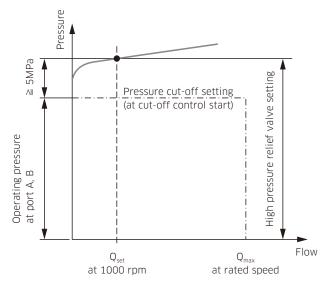
The allowable setting range of the high pressure relief valve is from 30 MPa to 45 MPa, and the customized pressure must be set within this range. For the customized pressure setting contact Kawasaki with the required pressure setting value. The pressure of the high pressure relief valve is factory preset at 40 MPa, if not specified.

2. Low pressure relief valve

Low pressure relief valve is equipped to control the pressure for charge line and servo line.

The pressure setting of an integrated low pressure relief valve is preset at 2.5MPa at the factory.

Do not adjust the pressure of the low pressure relief valve, as it may reduce the controllability of the pump.



High Pressure Relief Valve Setting Diagram

Pressure Cut-off

Pressure cut-off is the function which adjusts the pump displacement to the neutral position when the pressure reaches its pressure setting.

The pressure cut-off is set lower than high pressure relief valve setting, so that the maximum pump pressure is controlled by the pressure cut-off valve, whereas the high pressure relief valve acts to the pressure spike.

The cut-off pressure must be set at least 5 MPa lower than the setting of the high pressure relief valves.

The allowable setting range of the cut-off pressure is from 30 MPa to 40 MPa

2-1 Specifications

Charge Pump

Charge flow is required on all K8V pumps applied in closed circuit systems. The charge pump supplies flow to replenish, cool and filter oil, provide charge pressure and servo pressure, and flow for system control and auxiliary functions.

The integrated charge pump is available. The available charge pump sizes are as follows;

K8V90: 20 cm³/rev K8V125: 28 cm³/rev

Pressure and flow for charge circuit can be supplied by an external auxiliary pump.

An auxiliary pump for charge circuit can also be mounted on the back of main pump using through drive mounting.

In case the auxiliary pump is used for charge circuit, connect the charge pump delivery line to port C so that the flow is provided to the low pressure line and servo line. The integrated low pressure relief valve can be used in this case. If the integrated low pressure relief valve is not used, provide an appropriate relief valve in the system.

2-1 Specifications

Filtration of Charge Pump

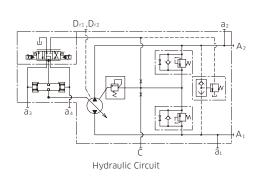
Filtration of the hydraulic fluid reduces premature wear, and enhances the reliability and productivity of the products. To ensure the cleanliness of the working fluid is essential to optimize function of the machine, and extend the service life.

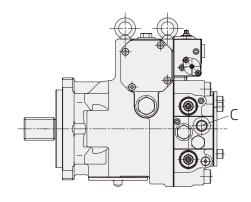
Filtration system

1) External Filtration System/External Supply

This option is for a pump without an integrated charge pump (Code X). External charge pump supply comes from port C.

Filter arrangement should be made separately.





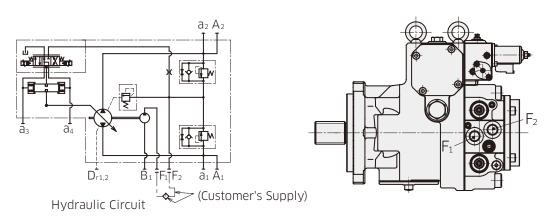
2) Remote Filtration System

This is for a pump equipped with an integrated charge pump and ports for external charge circuit filter. The filter will be located in the discharge (pressure) line of the charge pump, as shown in the hydraulic circuit below.

Filters with bypass are not recommended.

Filter arrangement should be made separately, as the filter is not included in the delivery contents.

Charge pressure outlet: Port F₁ Charge pressure inlet: Port F₂



2-2 Functional Description of Regulator

Electric Proportional Control (Code: P1, P2)

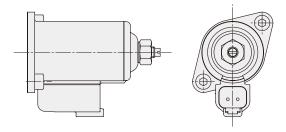
Pump delivery flow can be proportionally controlled by the input current to the electric proportional reducing valve equipped on the regulator.

The input current of the electric proportional reducing valve signals the control spool in a regulator to stroke, and to supply pressure to the servo piston. The pump displacement varies with the stroke of the servo piston.

The feedback lever, connected with the servo piston at the one end, moves with the stroke of the servo piston. This movement causes the sleeve of the control spool which is connected to the other end of the feedback lever to stroke, and closes the flow passage to the servo piston.

Consequently, the stroke of the servo piston stops, and the pump displacement becomes proportional to the input current.

Electrical Specifications



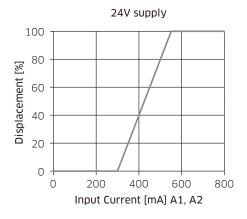
Connector Type

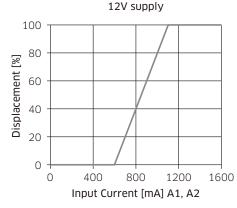
Deutsch, DT04-2P

Rated Current and Coil Resistance For 24 V supply: 0.7 A, 15 Ω (at 20°C) For 12 V supply: 1.6 A, 33 Ω (at 20°C)

Recommended dither condition 85 Hz, 200 mAp-p for 24 V 85 Hz, 600 mAp-p for 12 V

Control Characteristics

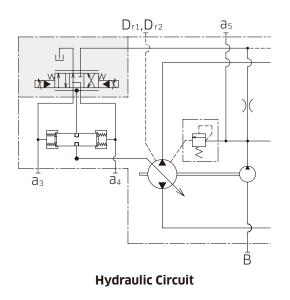




(Note)

Electric displacement control regulator requires the minimum servo pressure as follows.

For K8V125: 2.0 MPa For K8V90: 2.5 MPa



The above figures is the control characteristics of electric proportional control. The control characteristics of electric proportional control is not adjustable.

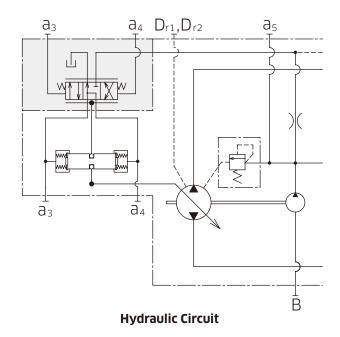
2-2 Functional Description of Regulator

♦ Hydraulic Pilot Displacement Control (Code: P3)

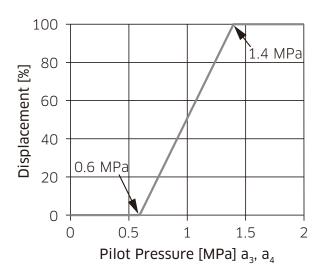
Pump delivery flow can be proportionally controlled by the external pilot pressure supply. The external pilot pressure signals the control spool in a regulator to stroke, and to supply pressure to the servo piston. The pump displacement varies with the stroke of the servo piston.

The feedback lever, connected with the servo piston at the one end, moves with the stroke of the servo piston. This movement causes the sleeve of the control spool which is connected with the other end of the feedback lever to stroke, and closes the flow passage to the servo piston.

Consequently, the stroke of the servo piston stops, and the pump displacement becomes proportional to the external pilot pressure.



Control Characteristics



The above figure is the standard control characteristic of hydraulic pilot displacement control. If non standard control characteristics is required, please contact Kawasaki.

2-2 Functional Description of Regulator

Mechanical Stroke Limiter

Mechanical stroke limiter is available for option. By an adjusting screw the maximum displacement can be adjusted infinitely to the required displacement setting.

This option is under development. For details contact Kawasaki.

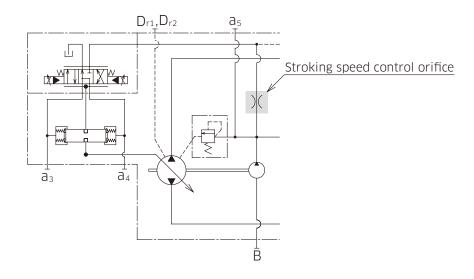
Stroking Speed Control Orifice

Pump stroking speed (response) can be adjusted by changing the control orifice which is integrated in the servo line. The available control orifices and those response (for reference) are shown in the table below.

The typical orifice size used is as below;

K8V90: Φ1.2 K8V125: Φ1.0

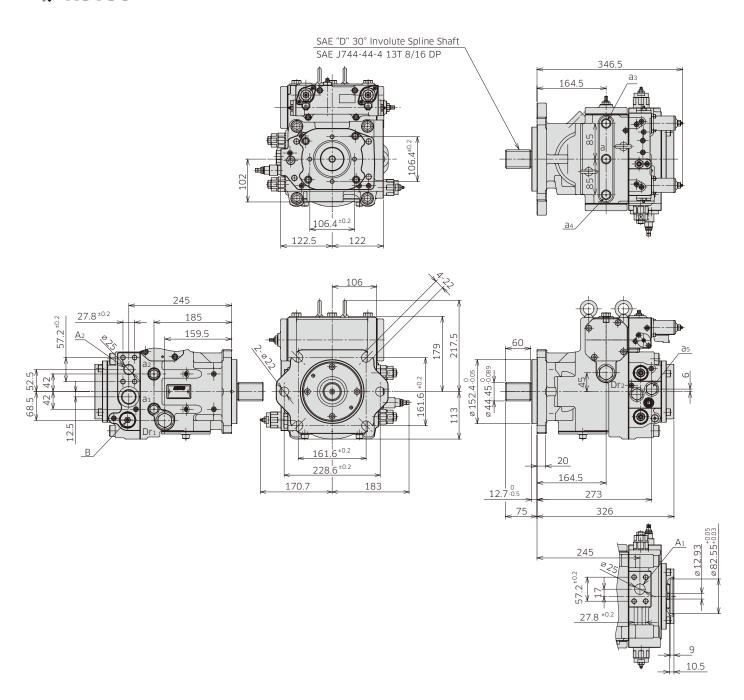
	Codo [0]	Orifice Size	Stroking Time	
	Code [9]	Offfice Size	Neutral to Max.	Max. to Neutral
	В	Ф1.0	2.0 ~ 2.5 sec	
K8V90	С	Ф1.2	1.5 ∼ 2.0 sec	0.5 ~ 1.5 sec
	D	Ф1.4	1.0 ∼ 1.5 sec	
	А	Ф0.8	4.0 ∼ 5.0 sec	
K8V125	В	Ф1.0	3.0 ∼ 4.0 sec	$0.5\sim1.5$ sec
	С	Ф1.2	2.0 ~ 3.0 sec	



3-1 Installation Dimensions

* Dimensions in mm.

★ K8V90



(Note) See port details for thread size on port A1 and A2.

3-1 Installation Dimensions

★ K8V90 Port Details

Main Flanged Ports

Des	Port Name	Port Size	Flange Thread	
Unified Thread Version				
A ₁ , A ₂	Pressure Port	SAE J518C high pressure (code 62) 1"	7/16-14UNC-2B-17-21.5	
Metric Thread Version				
A ₁ , A ₂	Pressure Port	SAE J518C high pressure (code 62) 1"	M12-17	

Auxiliary Ports

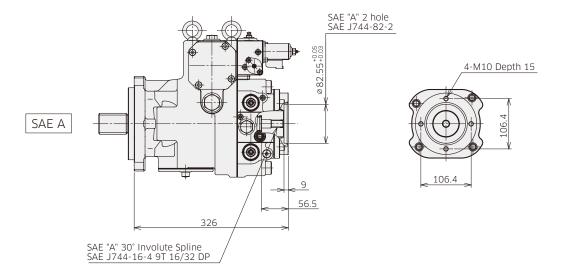
Des	Port name	Port size
Dr ₁ , Dr ₂ Case Drain		1-1/16-2 UN-2B-19 (ISO 11926-1)
a ₁ , a ₂ , a ₃ , a ₄	Gauge Port	9/16-18 UNF-2B-12.7 (ISO 11926-1)
В	Inlet Port	1-5/16-12 UN-2B-19 (ISO 11926-1)
a ₅	Gauge Port	7/8-14 UNF-2B-16.7
а	Air Vent Port	9/16-18 UNF-2B-12.7
F ₁	External Filter Port (OUT)	7/8-14 UNF-2B-16.7
F ₂	External Filter Port (IN)	7/8-14 UNF-2B-16.7
С	External Charge Pressure Supply Port	7/8-14 UNF-2B-16.7

3-1 Installation Dimensions

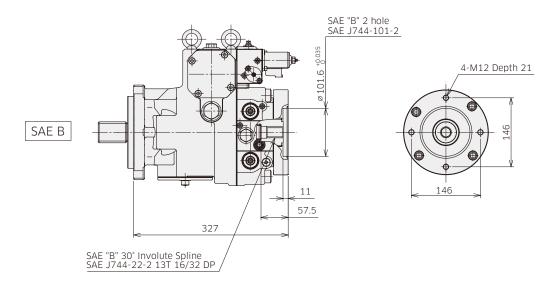
* Dimensions in mm.

★ K8V90 Through Drive Options

Through Drive 'A'



Through Drive 'B'

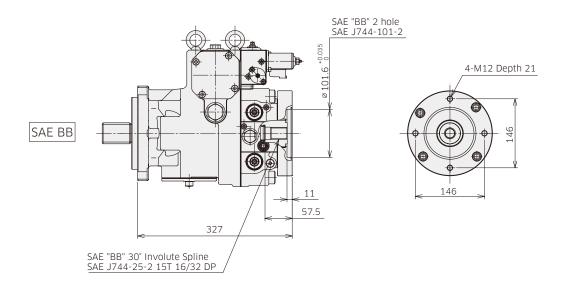


3-1 Installation Dimensions

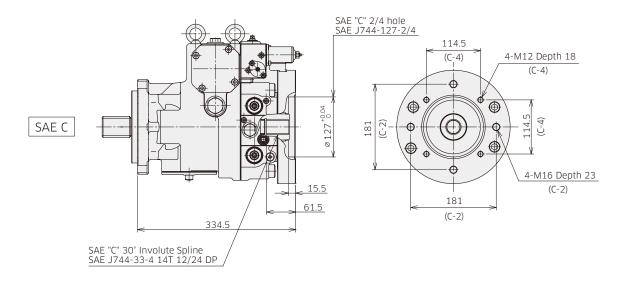
* Dimensions in mm.

★ K8V90 Through Drive Options

Through Drive 'BB'



Through Drive 'C'

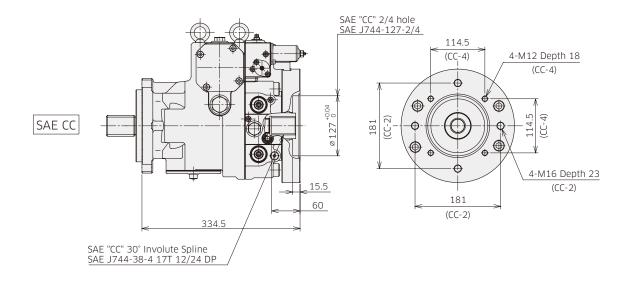


3-1 Installation Dimensions

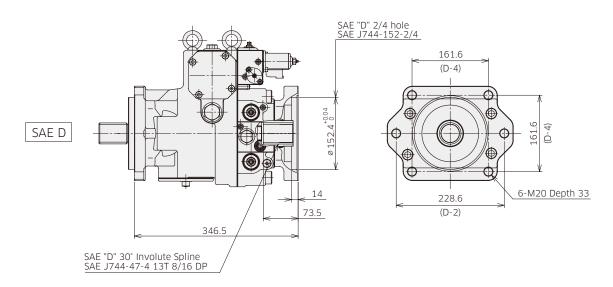
* Dimensions in mm.

★ K8V90 Through Drive Options

Through Drive 'CC'

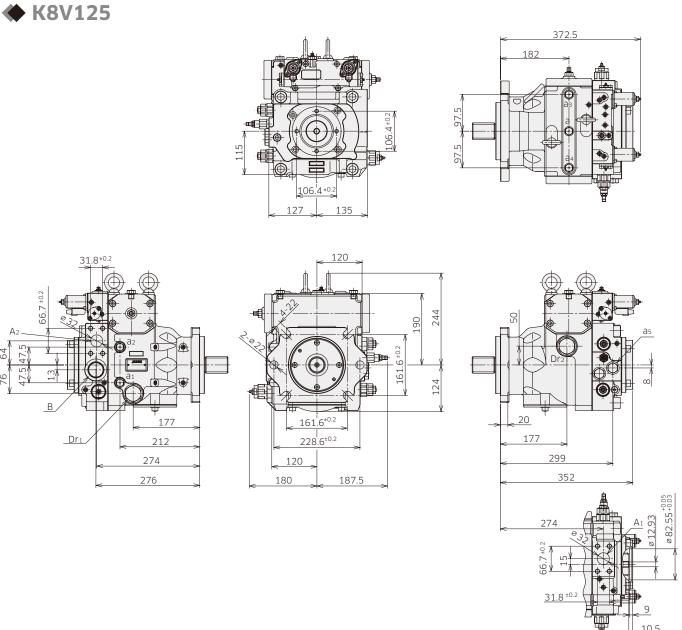


Through Drive 'D'



3-1 Installation Dimensions

* Dimensions in mm.



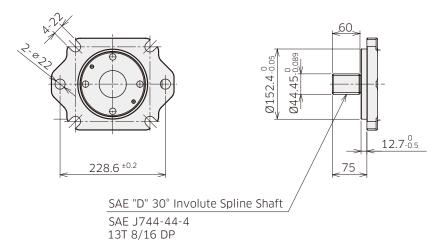
(Note) See port details for thread size on port A1 and A2.

3-1 Installation Dimensions

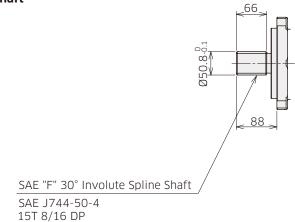
* Dimensions in mm.

★ K8V125

SAE D Spline shaft



SAE F Spline shaft



3-1 Installation Dimensions

*Dimensions in mm.

★ K8V125 Port Details

Main Flanged Ports

Des	Port Name	Port Size	Flange Thread	
Unified Thread Version				
A ₁ , A ₂	A ₁ , A ₂ Pressure Port SAE J518C high pressure (code 62) 1-1/4"		1/2-13UNC-2B-19/24	
Metric Thread Version				
A ₁ , A ₂	Pressure Port	SAE J518C high pressure (code 62) 1-1/4"	M14-19	

Auxiliary Ports

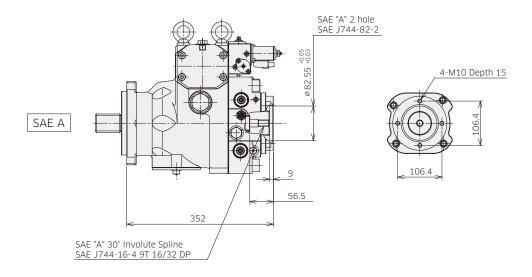
Des	Port name	Port size					
Dr ₁ , Dr ₂	Case Drain	1-1/16-2 UN-2B-19 (ISO 11926-1)					
a ₁ , a ₂ , a ₃ , a ₄	Gauge Port	9/16-18 UNF-2B-12.7 (ISO 11926-1)					
В	Inlet Port	1-5/8-12 UN-2B-24 (ISO 11926-1)					
a ₅	Gauge Port	7/8-14 UNF-2B-16.7					
а	Air Vent Port	9/16-18 UNF-2B-12.7					
F ₁	External Filter Port (OUT)	7/8-14 UNF-2B-16.7					
F ₂	External Filter Port (IN)	7/8-14 UNF-2B-16.7					
С	External Charge Pressure Supply Port	7/8-14 UNF-2B-16.7					

3-1 Installation Dimensions

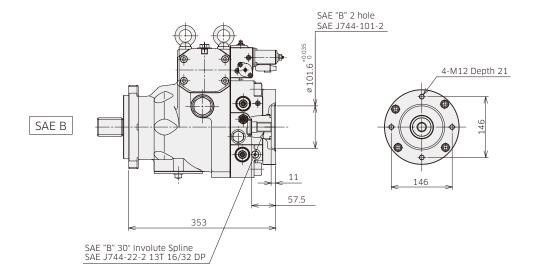
* Dimensions in mm.

★ K8V125 Through Drive Options

Through Drive 'A'



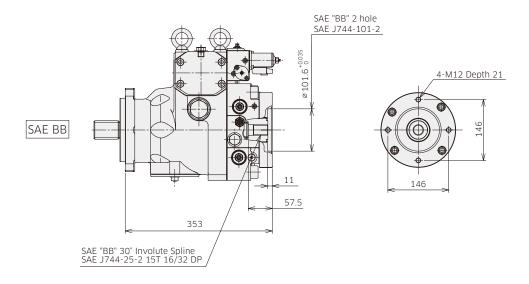
Through Drive 'B'



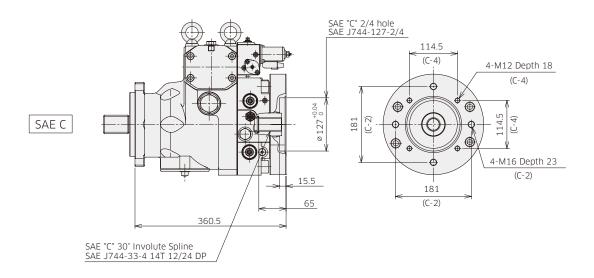
3-1 Installation Dimensions

K8V125 Through Drive Options

Through Drive 'BB'



Through Drive 'C'

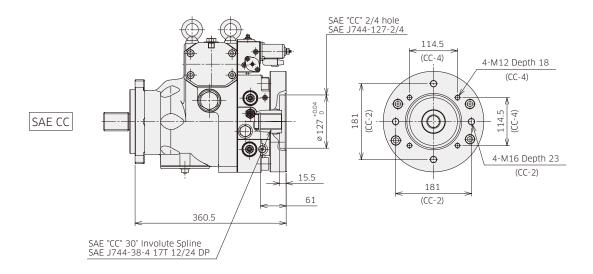


3-1 Installation Dimensions

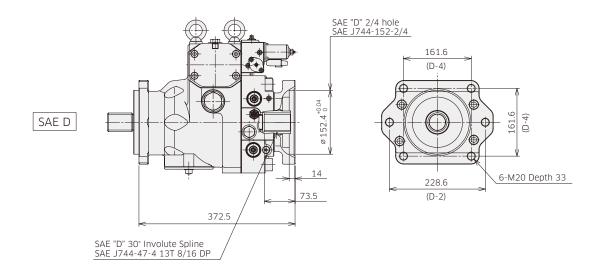
* Dimensions in mm.

K8V125 Through Drive Options

Through Drive 'CC'



Through Drive 'D'



3-2 Installation of Auxiliary Pumps

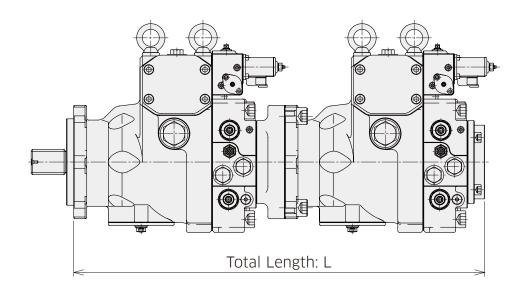
■ Allowable Mass Moment for Combination Pump

K8V series allows combination of multiple pumps using through drive mounting. The second pump can be attached up to the same size of the first pump. In case of tandem configuration with the same pump size the allowable maximum dynamic acceleration to the pump is 10G. No additional mounting support is necessary up to this condition. 4-bolt mounting is required in case of tandem pump. If the third pump has to be mounted on the back of the second pump, the pump mass moment at the mounting flange shall be within the rated mass moment. Please contact Kawasaki for details.

Total Length of	Tandem unit
-----------------	-------------

First Dump	Second Pump				
First Pump	K8V90	K8V125			
K8V90	672.5	-			
K8V125	698.5	724.5			

(Unit: mm)



Please complete the table to specify the requirements. Please contact Kawasaki for any questions.

Request Volume

Request Delivery Date

K8V se			_	ıı y	ı												ering y	our po	rentia
Please tick th Options with		1		nment				Date						Machi	ne Mod	el:			
									ication: omer N					Dumn	Model:				
Swash Plate	Type /	Axial I	Piston	Pump				CUST	omer n	arrie.				Pullip	Model:				
Model Code	1 K8V	2	3 A	4	5	6	7	8	_	9	10	11	12	13	14	15	16	17	18
	Items	c			lodel					Pog	Jiremen	tc					l (awasal	vi food	hack
	Items			Co	de No.	90				Neq	JII EIIIEII	13			П		.awasar	VI TEEU I	Dack
Pump Size (cn	n³)				2	125													
Series Type Co	ode				3	А	Series	А											
Direction of Ro	otation				4	R	Clock	wise (K	8V90 /	125)									
Direction of Re					7	L	Count	erclock	wise (K	(8V90)									
Mounting Flan	ge and	Shaft			5	D1					t (13T-8,				5) 🗆				
	ige dire	Jilait				D2	SAE -	D Moun	t & SAE	- F Sha	ıft (15T-	8/16DF) (for K	(8V125)					
						A1	SAE-A	, 2 bolt	, Throu	gh Driv	e (9T-16	/32DP)							
					B1	SAE-B	, 2 bolt,	Throug	gh Drive	e (13T-16	5/32DP)							
									ve (15T-										
Through Drive		6						ive (14T											
									rive (17										
									ive (13T	-8/16D	P)								
Thread Type (Suction/Delivery)				7		Witho Metric				d					-				
						Metric													
						UNFF									`				
							20 cm	3											
Charge Pump				8	В	28 cm	³ (for K	8V125)											
						Witho				ump									
						А	Ф0.8												
				В	Ф1.0								П						
Stroking Speed Control Orifice		9	С	Ф1.2															
				D	Ф1.4														
				X	Without	Orifice /	Available	Only with	Code X of	Low Pres	sure Relie	ef Valve [1	6] 🗆						
Mechanical Stroke Limiter 10		10	A : With Mechanical Stroke Lim				iter				_ /	k							
						В	Witho	ut Mech	nanical	Stroke	Limiter								
		(Commer	nts (Oth	er requ	Jiremen	ts)				Ор	erating	condit	ion, Dut	ty cycle	etc. (D	escribe	your d	etail)

Note

K8V series Inquiry Form

Α

Model Code

Kawasaki Powering your potential

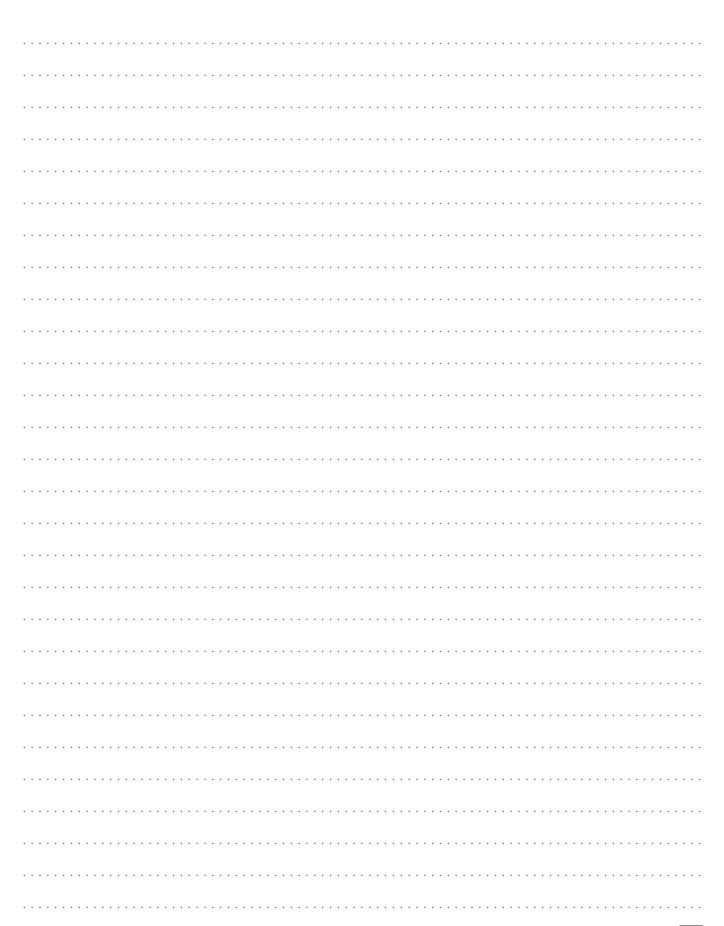
Please tick the box for options. Date: Machine Model: Options with \star are under development. Application: Customer Name: Pump Model: Swash Plate Type Axial Piston Pump 3 10 11 12 13 14 15 16 17 18

Items	Model Code No.	Requirements		Kawasaki feed back
		A : Integral Pressure Filtration	□ ★	
Filtration Options	11	B : Remote Pressure Filtration With Ports For External Charge Circuit Filter		
		C : Without Pressure Filtration		
Cuit al Angle Concer	12	A : With Swivel Angle Sensor	□ ★	
Swivel Angle Sensor	12	B : Without Swivel Angle Sensor		
6 115 1	10	A : A \sim Code Corresponding to the Feature will be set up When Necessary	□ ★	
Special Features	13	X : Without Any Special Feature		
		A : Electronic Proportional Displacement Control (24V)		
Control Options	14	B : Electronic Proportional Displacement Control (12V)		
		C : Hydraulic Proportional Displacement Control		
High Pressure Relief Valve	15	A : 30 MPa		
		B : 35 MPa		
		C : 40 MPa		
		D : 45 MPa		
		S : Customized Pressure Setting for Special Case		
	16	A : 30 MPa		
		B : 35 MPa		
Pressure Cut-Off Valve		C : 40 MPa		
		S : Customized Pressure Setting for Special Case		
		X : Without Pressure Cut-Off Valve		
Low Pressure Relief Valve	17	B : 2.5 MPa		
		C : Customized Pressure Setting for Special Case		
		X : Without Low Pressure Valve		
Design Code	18	** : 0.1~		

Comments (Other requirements)	Operating condition, Duty cycle etc. (Describe your detail)
	I

Request Volume	Request Delivery Date	Note

МЕМО



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Company Website