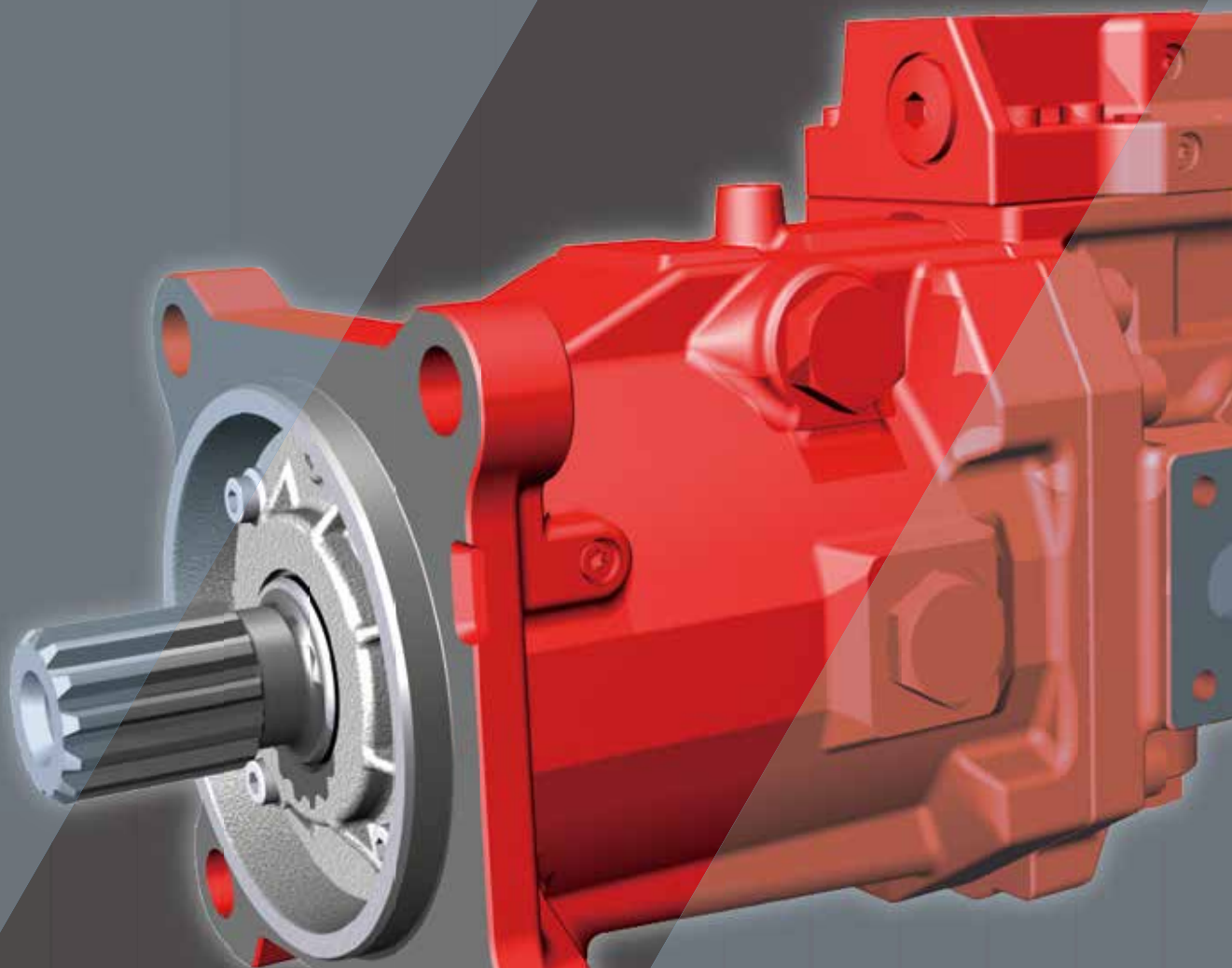


Регулируемые аксиально-поршневые гидромоторы KAWASAKI серии M7X

Технические характеристики



Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
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Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Саранск (8342)22-96-24
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Сургут (3462)77-98-35
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия (495)268-04-70

Казахстан (772)734-952-31

Киргизия (996)312-96-26-47

M7X Series

Fixed Displacement Type Axial Piston Motors



■ Specifications

Size : 85, 112, 160

Nominal Pressure : 42 (6,090 psi)

Maximum Pressure : 50 (7,250 psi)

■ General Descriptions

- Applicable to an open circuit and closed circuit.
- Applicable to construction machinery and industrial vehicles.
- Swash plate design allows for a compact motor.
- High power density.

■ Features

Superior performance at High and Low speed

Optimized rotary balance design enables high speed performance and excellent low speed characteristics.

Low noise

Swash plate configuration provides the low noise.

Compact size

Swash plate configuration provides the more compact structure and flexibility in system design.

Long bearing life

Swash plate configuration results in longer bearing life.

Technical Information

Specifications

M7X Series

Size		85	112	160
Max. Displacement : $q_{\max}$	$\text{cm}^3 (\text{in}^3)$	90 (5.5)	112 (6.9)	160 (9.8)
Max. Speed : N_{nom}	$\text{min}^{-1} (\text{rpm})$	4,500	3,550	3,100
Nominal pressure : P_{nom} *1	MPa (psi)	42 (6,092)		
Max. Pressure : $P_{\max}$ *2	MPa (psi)	50 (7,252)		
Theoretical output torque	Nm (lbf ft)	602 (444)	749 (552)	1,070 (789)
Power	kW (hp)	284 (381)	278 (373)	347 (465)
Max. Flow : Q	L/min (gallon/min)	405 (107)	398 (105)	496 (131)
Moment of inertia	$\text{kg} \cdot \text{m}^2$	0.011	0.017	0.030
Volume in the case	L (gallon)	0.5 (0.21)	0.5 (0.21)	1.2 (0.32)
Mass	kg (lb)	26	34	45
Temperature	$^{\circ}\text{C} (^{\circ}\text{F})$	-20 to +115 (-4 to +239) at drain port -20 to +90 (-4 to +194) at inlet port		
Coating		Red synthetic resin primer		

* 1 : Nominal pressure corresponds to the design pressure to provide appropriate performance, function, and service life.

: Nominal pressure corresponds to the design pressure at which the products will function properly.

* 2 : Summation of pressure on A and B port shall be 56 MPa or less.

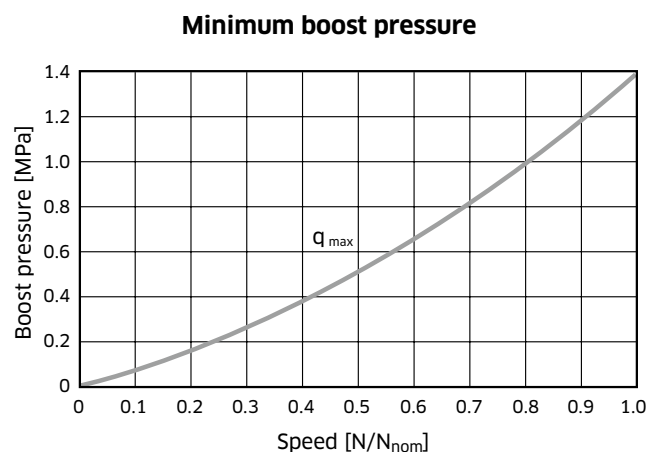
Technical Information

Precautions for System Design

◆ Minimum. Boost Pressure

To prevent cavitation when the motor is operating in a pumping mode, a positive pressure is required at the suction port.

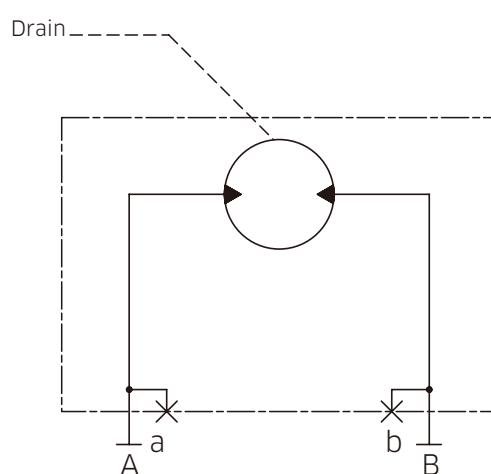
The figure on the right shows the minimum boost pressure requirement based on regular operation. In case of a rapid change of the flow, more boost pressure must be applied.



Optional Valve

Ordering Code [8] : Blank, X, Y, Z

◆ **Blank : w/o Counter Balance Valve, w/o Flushing Valve**



◆ **X, Y : w/ Counter Balance Valve, w/o Flushing Valve
(Under development)**

Counter Balance Valve is used for hoisting on the winch application.

◆ **Z : w/o Counter Balance Valve, w/ Flushing Valve
(Under development)**

The function is chosen in case that the circuit needs additional cooling or minimum boost pressure needs to be ensured.

Technical Information

Speed Sensor

Ordering Code [10] : 1, 2, B

◆ 1 : w/o Speed Sensor

- A speed sensor is not installed.

◆ 2 : w/ Speed Sensor (A port side)

- A speed sensor that detects the motor speed and direction is installed at A port side.

◆ B : w/ Speed Sensor (B port side)

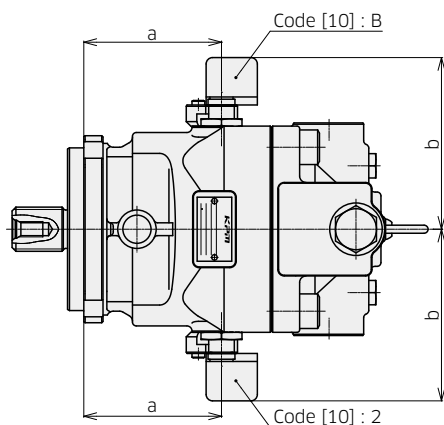
- A speed sensor that detects the motor speed and direction is installed at B port side.

Specification

Supply Voltage : 4.5V ~ 26V DC

Mating Connector : TE Connectivity AMP Superseal 1.5 series, 4 positions(part number : 282088)

IP Protection Rating : IP69K



			M7X85	M7X112	M7X160
a [mm]	Code [4]	A, B	107.5	116.5	124.5
		C, D	85.0	84.5	94.5
b [mm]			134	139	147
Pulse Frequency [pulse/rev]			71	77	87

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