



3.3

FK3V QCP6CQ

Qu_qf+nj_rc RwnC
?vg_j Ngqrm l Dgvcb Bgqnj_ac k c l r KmrmP
&Amlr_glg le Ec_p`mv'

P a l able f e ble
ach e cha e ca a a d a
d ll , ,

A l e c c

S e:	45	80	130	180	250
Pea					
e e (ba):	240	324	324	324	324



Contents

Tech cal Da a	02
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I alla e	
HM5X 45	05-06
HM5X 80	07-08
HM5X 130	09-10
HM5X 180	11-12
HM5X 250	14-15

Features

S a h la e e , e_x a ed h
echa cal b a e, elef al e,cha_x al ea d
a - eac al e;
C ac c ede_x h he ,
a_x , e_x al echa cal b a e
ele e a d hea ached al e a e
ea l ac a_xed_x e he .
S ec al de_x f he , fla_x e, ca be
d ec l c ec ed h he ed ce .
S c e ed fl_x h e_x h a d
c ac ba ed he a e ech l_x ,
c ea ed he e .
A led he a c d f Med
la_x e- ede ca a , e c.

Rca f l ga_j B_r_

M	Fea e		45	80	130	180		250
	N al d lace e (cc/ e)		44.1	79.9	129.2	180.1		250.1
	D ec f a		Cl c e, C e cl c e					
	Ma a eed ()		1750	2200	1850	1680		1520
	Pea e e (ba)		240	324	324	324		324
	T e	Ra ed e (N)	168.5	410	670	930		1290
		Ma .ba e e (N)	178	475	874	1210		1770
	Ba r P l P e e	M (ba)	15	22	34	34		34
		Ma (ba)	49	49	49	49		49
	Ca r e e	Ra ed (ba)	1	2	2	2		2
Ma (ba)		3	6	6	6		6	
Red ce	Red ce e		RGSS35A	RGSL06E	RGSL12E	RGSL16E	RGSL23E	RGSL27E
	Red c a		20.615	20.01	20.01	20.01	25.2	25.2
	We r h (K _r)		82	120	225	310	420	600
Ol c (/)			7~1600, Be a r e: 12~80					
OlTe e a e()			-40~100, Be a r e: 60~85					
OlClea l e			ISO 4406 20/18/15					

Whe he c h 200~1000 /, eed ehea bef ef al r.
N e: The HM5X45 e e h d a l c del eed h ed ce. The ab e e ed da a e e e he
da a l. F hea e bl da a he ed ce da a hall be c de ed.

Rwnc g l rpmb sargm l

HM5X	130	0	0	265	-	RGSL12E

Product series

S a h l a e	f i e d	HM5X
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Displacement

S e	45	80	130	180	250
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Time delay valve

		45	80	130	180	250	C d e
W h T e d e l a a l e							1
W h T e d e l a a l e							0

Anti-reaction valve

		45	80	130	180	250	C d e
W h A - e a c a l e							1
W h A - e a c a l e							0

Relief valve setting

Rel e f a l e e	⌘	
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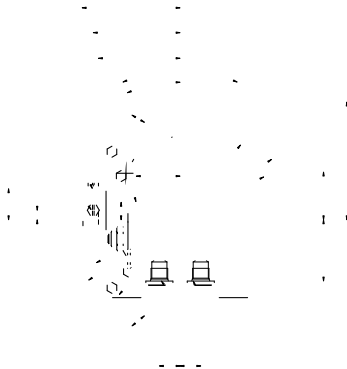
Reducer type

		45	80	130	180	250	C d e
W h e d c e							N e
RGSS35A							RGSS35A
RGSL06E							RGSL06E
RGSL12E							RGSL12E
RGSL16E							RGSL16E
RGSL23E							RGSL23E
RGSL27E							RGSL27E

Npg l agn jc

6 l q r _ j j _ r g m l q q x c

7FK3V 23 6 l q r _ j j _ r g m l q q x c



6 l j c r n m p r	M s r j c r n m p r	P m r _ r g m l b g p c a r g m l
A	B	C l c e
B	A	A - c l c e

L m r c 8 The a d e c l e d f
he haf e d.

G l q r _ j j _ r g m l q g x c

FK3V 23 Nmpr bcr_gjq

	Port Name	Port Size and Description	Tightening Torque (N-m)
A	Inlet and Outlet	G1/2 (d _h 16)	109
B			
M	Charge	G3/4 (d _h 17)	200
DB	Hydraulic	G3/8 (d _h 12)	70
PG	Bore	G1/4 (d _h 12)	39.2
SH	Bore element		
GA、GB	Gate	G1/4 (d _h 12)	39.2

Specifications of output pinion

Shaft		
Torque	Thrust	Shaft diameter
	Moment	8
	Pressure	20°
No. of teeth		12
Pitch diameter		96
Addendum		4.4 (X=+0.55)
Thrust force	Difference between	39.780 ^{-0.083} _{-0.189} (Measurement difference)
Reduction ratio		0.088 ~ 0.201
Pressure class		JIS B 1702-1976 Class 5
Thrust force		3.2 ✓

G l q r _ j j _ r g m l q g x c

¶FK3V 6 . N m p r b c r _ g j q

	Port Name	Port Size and Description	Tightening Torque (N·m)	Plug type
A, B	I l e a d Del e	G1/2 (d e h 19	108	G1/2 Pla c l
M	Cha e	G3/4 (d e h 20	167	G3/4 Pla c l
PA, PB	Ga e	G1/4 (d e h 15	36	G1/4 S e e l l
DB	H d a	G3/8 (d e h 15	74	G3/8 Pla c l
PG	B a e l e a e	G1/4 (d e h 12	36	G1/4 Pla c l
SH	B a l	G1/4 (d e h 12	36	G1/4 Pla c l
L	O l l e e l	Rc1/4-12.5	22	S e e l l
IP	Gea l f i l l	Rc1-22	127	S e e l l

¶FK3V 6 . Q f _ d r q n c a g a _ r g m l

I l e l e 14-12/24DP	
S d e f i	
S l e c h	12/24
N . O f e e h	14
P e e a e	30°
Ma d a e e	31.224 ⁰ _{-0.16}
M d a e e	26.993 ⁰ _{-0.2}
P c h d a e e	29.634
Ba e d a e e	25.663
D a e e f a	4.064
S a c f a	35.719 ~ 35.783
Refe e ce h h c e	3.230 ~ 3.273
Lead le a ce	0.015
S l e a d a d	SAE J498B

03

G l q r _ j j _ r g m l q g x c

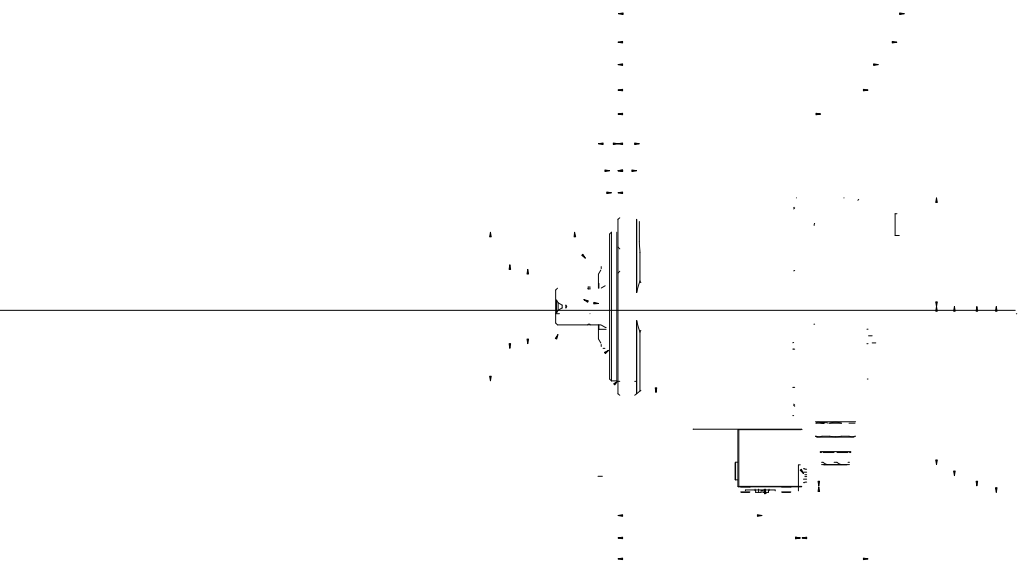
¶ F K 3 V / 1 . Q f _ d r q n c a g a _ r g m l

03

S l e a d a d	JIS D2001
N b e f e e h	19
M d l e	1.667

6 l q r _ j j _ r g m l q g x c

7FK3V / 6. 6 l q r _ j j _ r g m l q g x c



03

6 l j c r n m p r	M s r j c r n m p r	P m r _ r g m l b g p c a r g m l
A	B	C l c e
B	A	A - c l c e

L m r c 8 The a d e c l e d f
h e h a f e d.

G l q r _ j j _ r g m l q g x c

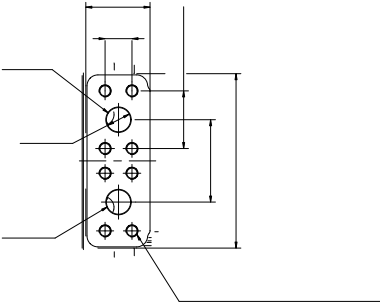
¶FK3V / 6. N m p r q q g x c

(E c l d e l l e a d D e l e)

	Port Name	Port Size and Description	Tightening Torque (N·m)
M	Ch a ⋈ e	G1(d e h 24)	200
DR	H ⋈ d a	G1/2(d e h 23)	109
PG	B a ⋈ e l e a e	G1/4(d e h 12)	36
SH	B a ⋈ l	G1/4(d e h 12)	36
PA, PB	P e e e a e ⋈	G1/4(d e h 15)	36

¶FK3V / 6. G l j c r _ l b B c j t c p w n m p r q m n r g m l q

(P d e c)



		Port Name	Port Size and Description	Tightening Torque (N·m)
Fl a ⋈ e d e	A	l l e a d D e l e	SAE G3/4	
	B			
T h e a d e d e	A	l l e a d D e l e	G3/4(d e h 20)	167
	B			

S l e a d a d	JIS D2001

Glqr_jj_rgmI qgxc

FK3V 03. Glqr_jj_rgmI qgxc

