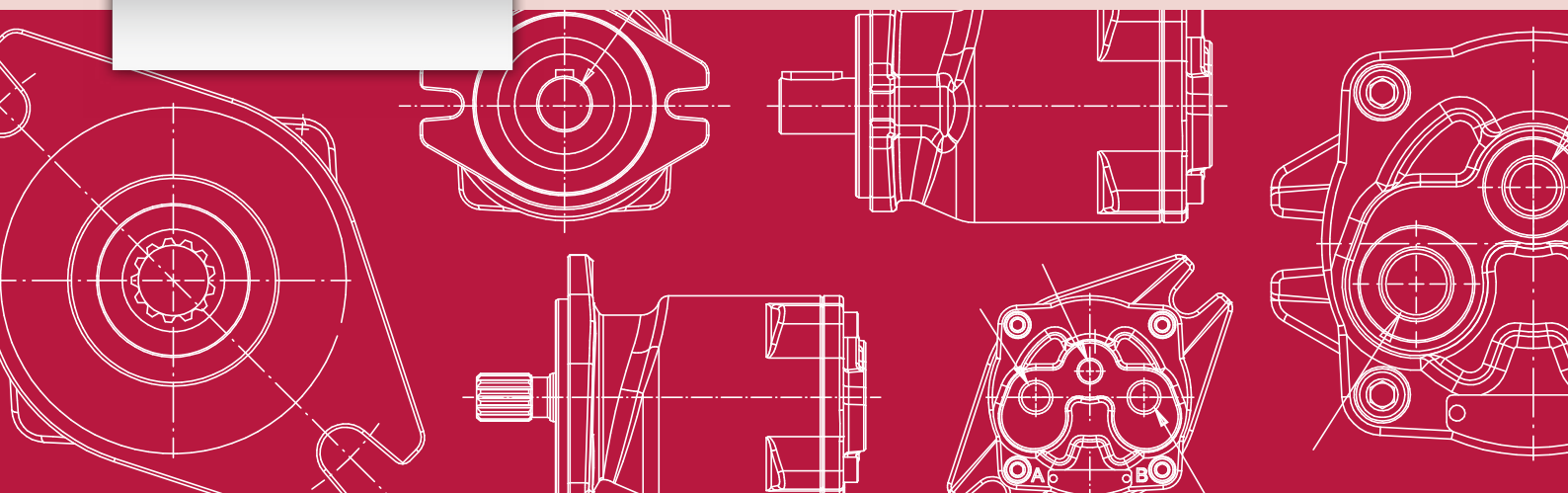




Axial Piston Motor



Contents

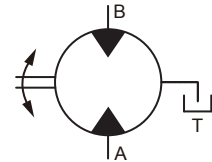
Axial Piston Motor

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Techincal Info.



SYMBOLS



FEATURE

SPMF Series is an axial piston motor which is used for traveling, swing and winching of industrial machinery and industrial vehicles.

SPMF Series is a fixed displacement swash type piston motor which combines with weight reduction, down-size and high durability. SPMF Series is designed with a simple structure to keep the outstanding durability against rapid acceleration/ deceleration, torque changes by frequent rotation/reverse rotation, and pressure variation.

ORDER CODES

SPMF - **25** - **09** - **K**

1 2 3 4

1	Model Name	SPMF
2	Displacement (cc/rev)	20, 25, 36, 39, 43, 47
3	Series Number	01, 02, 03, etc.
4	Axis Type	S K
		13T Pressure Angle 20° M1.667 JIS Please refer to the table below for displacement.

MODEL SPEC.

Model	Displacement (cc/rev)	Pressure (kgf/cm ²)		Torque (kgf-m)		Speed (r.p.m.)	Weight (kg)
		Rated	Max.	Rated	Max.		
SPMF-20-01	20	210	250	6.6	8	3000	7.5
SPMF-25-01	25.7	210	250	8.6	10.2	3000	7.5
SPMF-25-02, 03	25.7	210	250	8.6	10.2	3000	8
SPMF-25-05, 06, 07	25.7	210	250	8.6	10.2	3000	8
SPMF-25-08, 09	25.7	210	250	8.6	10.2	3000	8
SPMF-36-01	36	210	250	12	14.3	3000	10.4
SPMF-36-04	36	210	250	12	14.3	2800	10.4
SPMF-39-01, 02	39	210	250	13	15.5	2500	10.4
SPMF-39-03	39	210	250	13	15.5	2500	10.4
SPMF-43-01	43	210	250	14.3	17.1	3000	10.4
SPMF-43-02, 03, 05	43.2	210	250	14.3	17.1	2800	10.4
SPMF-47-01, 11	47	210	250	15.7	18.7	3000	10.4

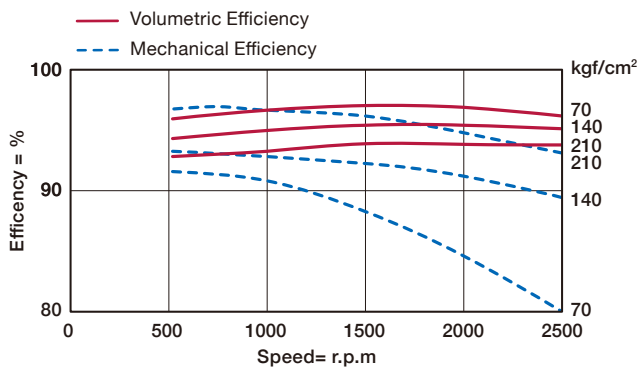
SPMF-20-01

MODEL SPEC.

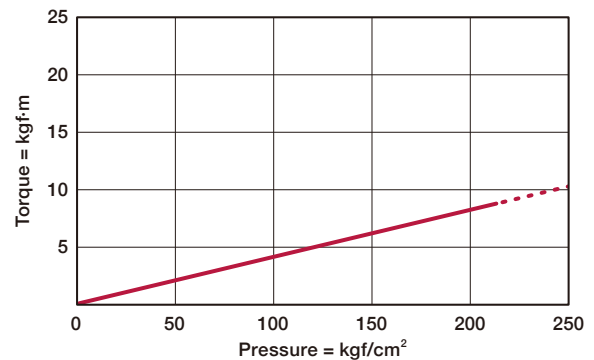
Model	Displacement (cc/rev)	Pressure (kgf/cm ²)		Torque (kgf·m)		Speed (r.p.m.)	Weight (kg)
		Rated	Max.	Rated	Max.		
SPMF-20-01	20	210	250	6.6	8	3000	7.5

CURVE

► Performance Curve

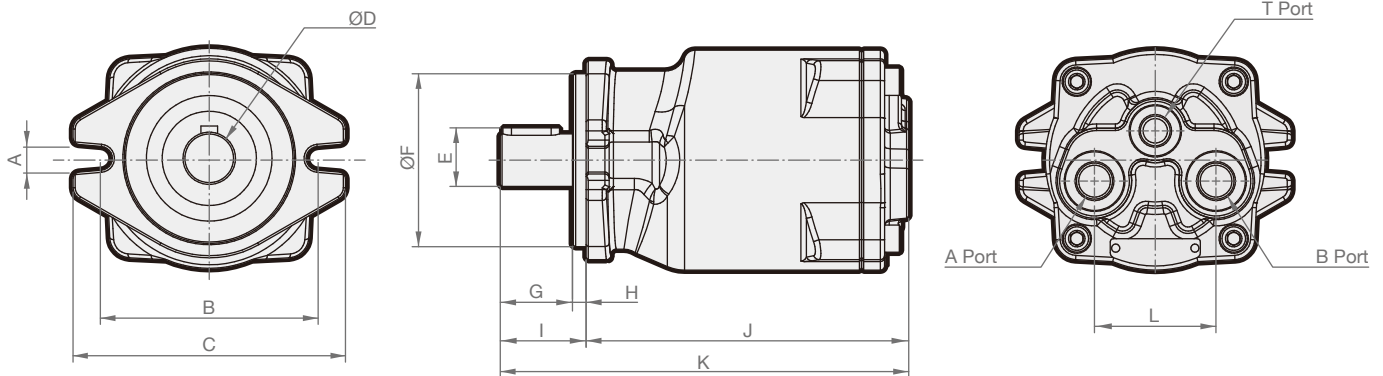


► Output torque



DIMENSION

(UNIT : mm)



Model	A	B	C	ØD	E	ØF	G	H	I	J	K	L
SPMF-20-01-K	11.2	106	130	Ø24	27	Ø82.5	34.5	6.5	41	153.5	194.5	58

Port Size

Model	Inlet / Outlet	Drain
SPMF-20-01-K	BSPP 3/8"	BSPP 3/8"

Dimension of Shaft

Model	No. of Teeth	Pressure Angle	Module	Rule
SPMF-20-01-K	7 x 7 x 27	-	-	key type

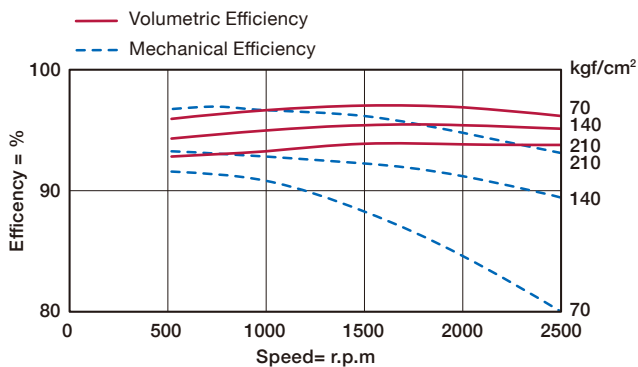
SPMF-25-01

MODEL SPEC.

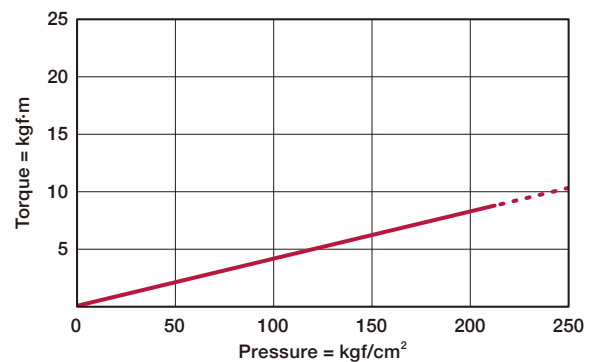
Model	Displacement (cc/rev)	Pressure (kgf/cm ²)		Torque (kgf·m)		Speed (r.p.m.)	Weight (kg)
		Rated	Max.	Rated	Max.		
SPMF-25-01	25.7	210	250	8.6	10.2	3000	7.5

CURVE

► Performance Curve

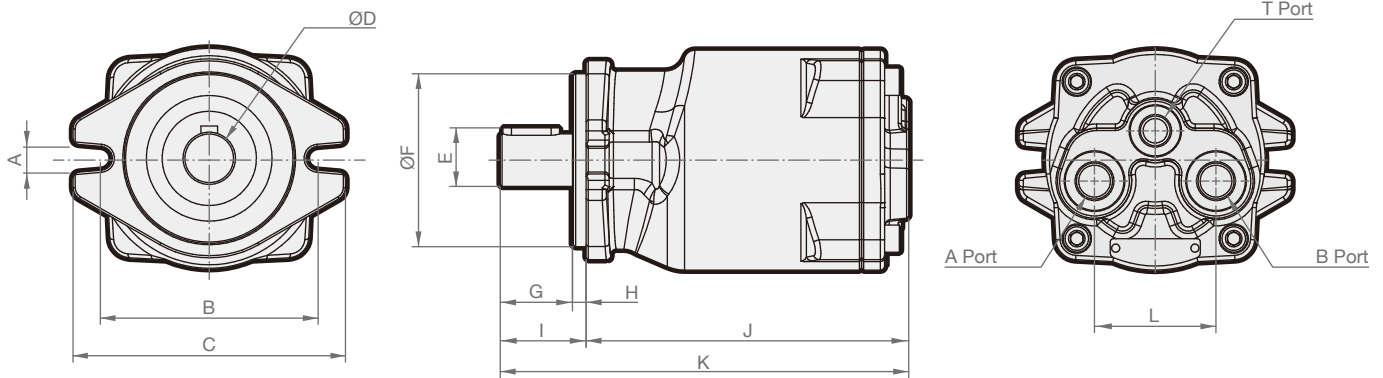


► Output torque



DIMENSION

(UNIT : mm)



Model	A	B	C	ØD	E	ØF	G	H	I	J	K	L
SPMF-25-01-K, D	11.2	106	130	Ø25	28	Ø82.5	34.5	6.5	41	153.5	194.5	58
SPMF-25-01-S, F	11.2	106	130	Ø24.667	Ø24.667	Ø82.5	40.5	6.5	47	153.5	200.5	58

Port Size

Model	Inlet / Outlet	Drain
SPMF-25-0-K, D	BSPP 3/8"	BSPP 3/8"
SPMF-25-0-S, F	BSPP 3/8"	BSPP 3/8"

Dimension of Shaft

Model	No. of Teeth	Pressure Angle	Module	Rule
SPMF-25-0-K, D	8 x 7 x 27	-	-	key type
SPMF-25-0-S, F	13	20°	1.667	JIS

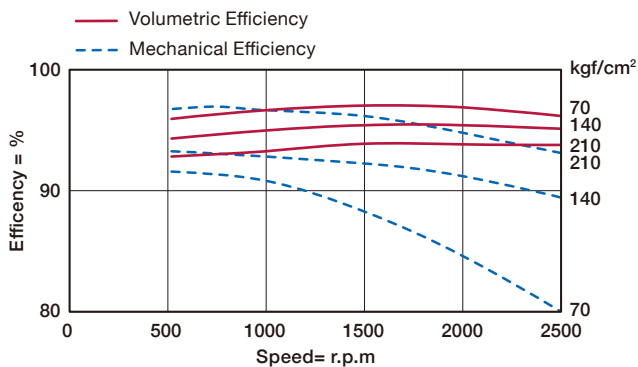
SPMF-25-02, 03

MODEL SPEC.

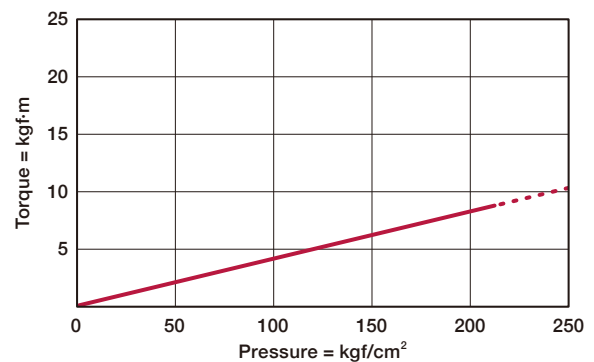
Model	Displacement (cc/rev)	Pressure (kgf/cm ²)		Torque (kgf·m)		Speed (r.p.m.)	Weight (kg)
		Rated	Max.	Rated	Max.		
SPMF-25-02, 03	25.7	210	250	8.6	10.2	3000	8

CURVE

► Performance Curve

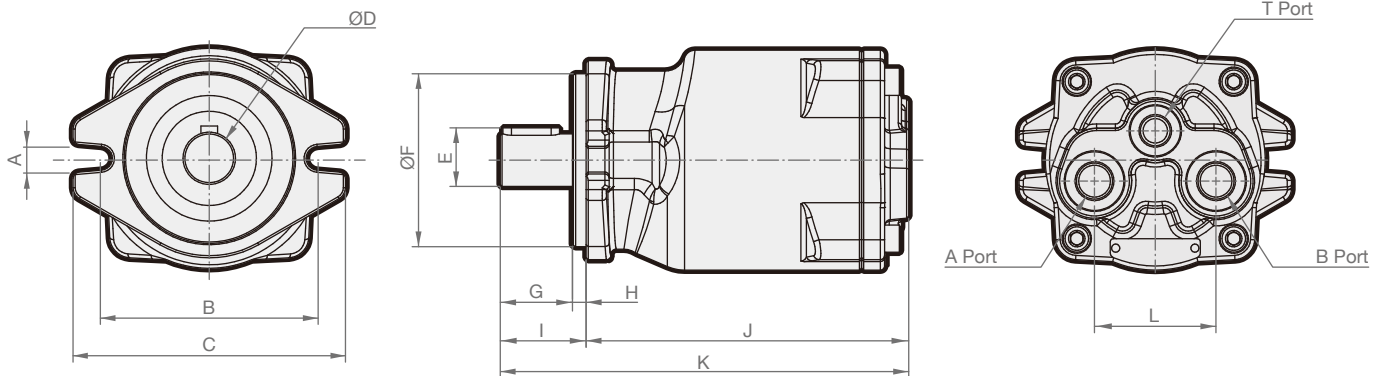


► Output torque



DIMENSION

(UNIT : mm)



Model	A	B	C	ØD	E	ØF	G	H	I	J	K	L
SPMF-25-02-K	15	146	170	Ø24	27	Ø101.6 ~ Ø101.549	31.9	9.1	41	153.5	194.5	58
SPMF-25-02-S	15	146	170	Ø24.667	Ø24.667	Ø101.6 ~ Ø101.549	41	9.1	50.1	153.5	203.3	58
SPMF-25-03-K	15	146	170	Ø24	27	Ø101.6 ~ Ø101	32.1	9.1	41.2	153.5	194.7	58

Port Size

Model	Inlet / Outlet	Drain
SPMF-25-02-K	BSPP 3/8"	BSPP 3/8"
SPMF-25-02-S	BSPP 3/8"	BSPP 3/8"
SPMF-25-03-K	BSPP 1/2"	BSPP 1/4"

Dimension of Shaft

Model	No. of Teeth	Pressure Angle	Module	Rule
SPMF-25-02-K	7 x 7 x 27	-	-	key type
SPMF-25-02-S	13	20°	1.667	JIS
SPMF-25-03-K	7 x 7 x 27	-	-	key type

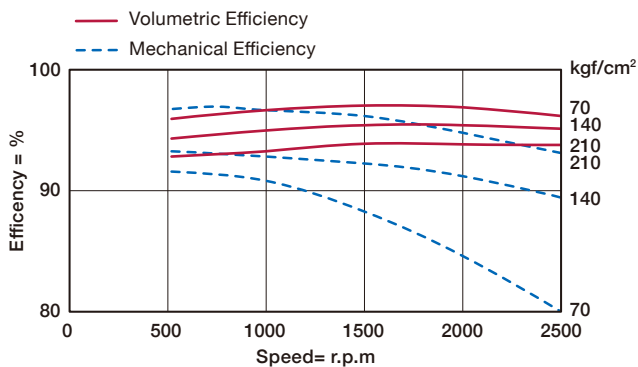
SPMF-25-05, 06, 07

MODEL SPEC.

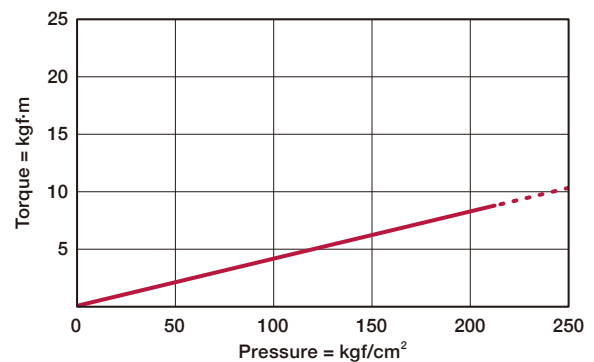
Model	Displacement (cc/rev)	Pressure (kgf/cm ²)		Torque (kgf·m)		Speed (r.p.m.)	Weight (kg)
		Rated	Max.	Rated	Max.		
SPMF-25-05, 06, 07	25.7	210	250	8.6	10.2	3000	8

CURVE

► Performance Curve

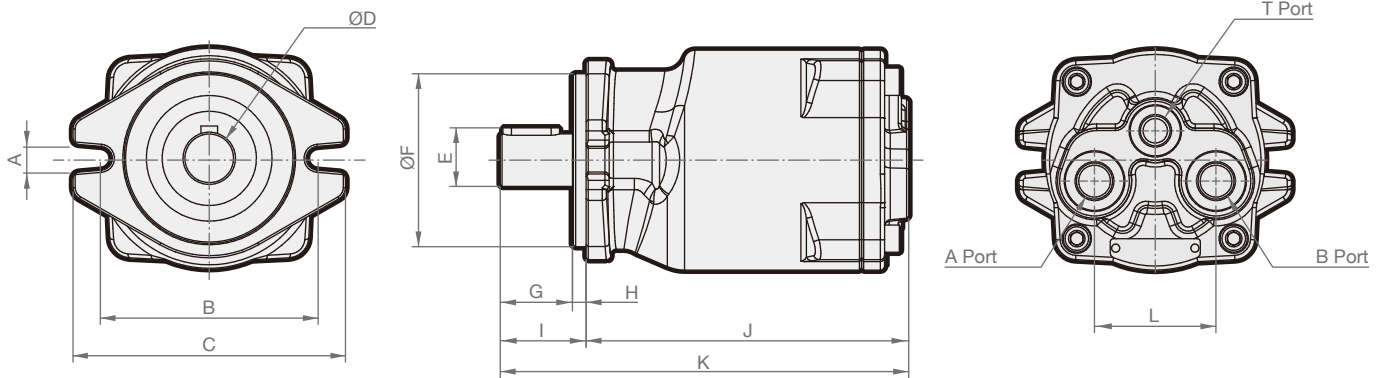


► Output torque



DIMENSION

(UNIT : mm)



Model	A	B	C	ØD	E	ØF	G	H	I	J	K	L
SPMF-25-05-S	15	146	170	Ø24.667	Ø24.667	Ø101.6 ~ Ø101.549	38.2	9.1	47.3	153.5	200.8	58
SPMF-25-06-S	11.2	106.3	130	Ø24.667	Ø24.667	Ø82.55	40.8	6.5	47.3	153.5	200.8	58
SPMF-25-07-K	11.2	106	130	Ø25	28	Ø82.5	43.5	6.5	50	153.5	203.5	58

Port Size		
Model	Inlet / Outlet	Drain
SPMF-25-05-S	BSPP 3/8"	BSPP 3/8"
SPMF-25-06-S	BSPP 3/8"	BSPP 3/8"
SPMF-25-07-K	BSPP 3/8"	BSPP 3/8"

Dimension of Shaft				
Model	No. of Teeth	Pressure Angle	Module	Rule
SPMF-25-05-S	13	20°	1.667	JIS
SPMF-25-06-S	13	20°	1.667	JIS
SPMF-25-07-K	7 x 7 x 31.5	-	-	key type

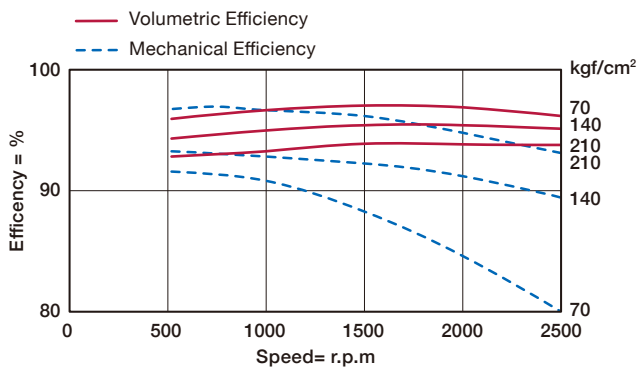
SPMF-25-08, 09

MODEL SPEC.

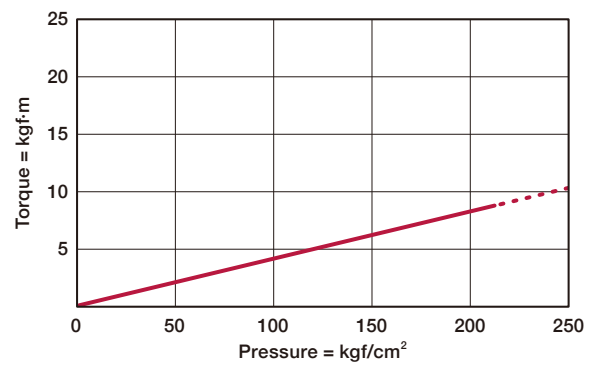
Model	Displacement (cc/rev)	Pressure (kgf/cm ²)		Torque (kgf·m)		Speed (r.p.m.)	Weight (kg)
		Rated	Max.	Rated	Max.		
SPMF-25-08, 09	25.7	210	250	8.6	10.2	3000	8

CURVE

► Performance Curve

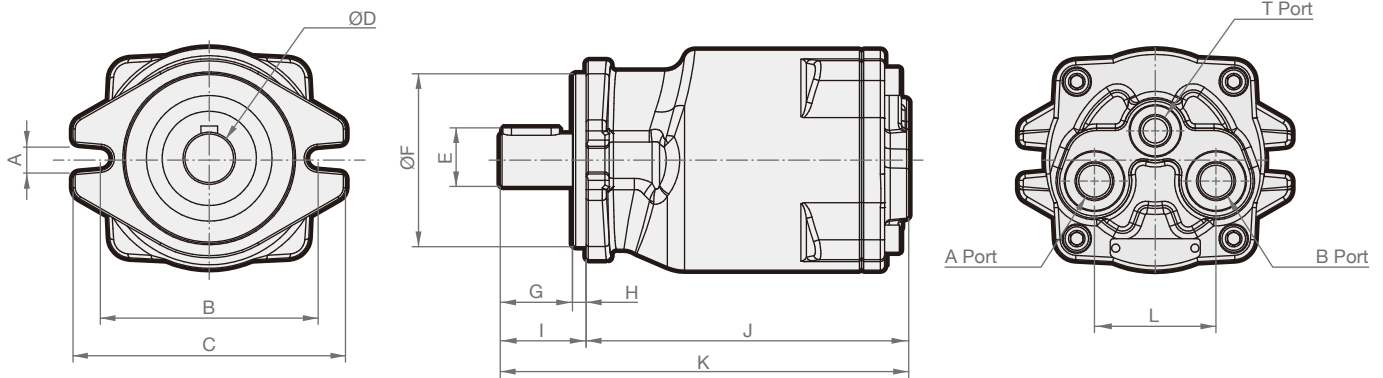


► Output torque



DIMENSION

(UNIT : mm)



Model	A	B	C	ØD	E	ØF	G	H	I	J	K	L
SPMF-25-08-S	15	146	170	Ø24.667	Ø24.667	Ø101.6	38.2	9.1	47.3	153.5	201	58
SPMF-25-09-S	11.2	106	130	Ø24.667	Ø24.667	Ø82.55	40.8	6.5	47.3	153.5	201	58

Port Size

Model	Inlet / Outlet	Drain
SPMF-25-08-S	BSPP 3/8"	BSPP 1/4"
SPMF-25-09-S	BSPP 3/8"	BSPP 1/4"

Dimension of Shaft

Model	No. of Teeth	Pressure Angle	Module	Rule
SPMF-25-08-S	13	20°	1.667	JIS
SPMF-25-09-S	13	20°	1.667	JIS

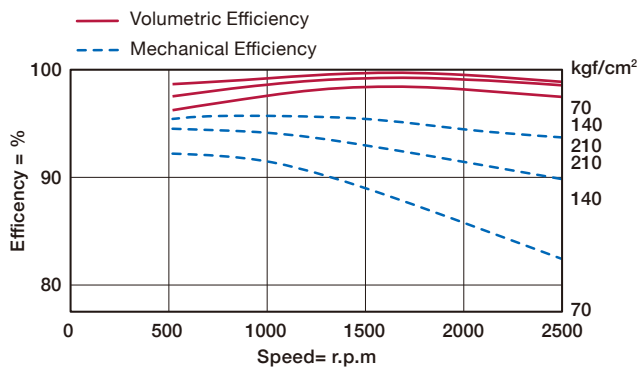
SPMF-36-01, 04

MODEL SPEC.

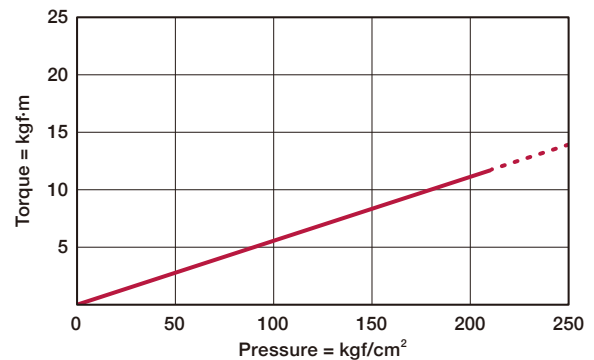
Model	Displacement (cc/rev)	Pressure (kgf/cm ²)		Torque (kgf·m)		Speed (r.p.m.)	Weight (kg)
		Rated	Max.	Rated	Max.		
SPMF-36-01	36	210	250	12	14.3	3000	10.4
SPMF-36-04	36	210	250	12	14.3	2800	10.4

CURVE

► Performance Curve

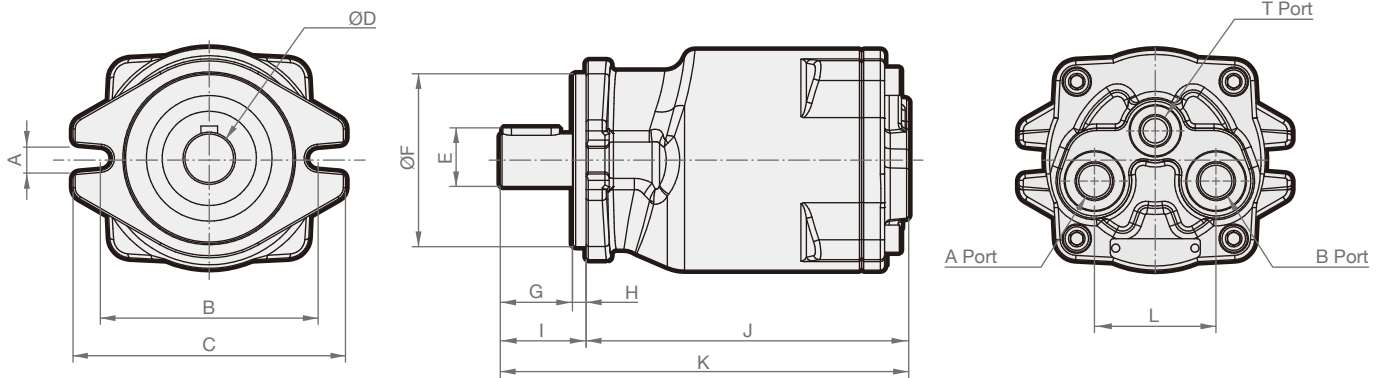


► Output torque



DIMENSION

(UNIT : mm)



Model	A	B	C	ØD	E	ØF	G	H	I	J	K	L
SPMF-36-01-K	15	146	170	Ø24	27	Ø101.6 ~ Ø101.549	32.1	9.1	41.2	172	213.2	67
SPMF-36-01-S	15	146	170	Ø24.667	Ø24.667	Ø101.6 ~ Ø101.549	48.7	9.1	57.8	172	229.8	67
SPMF-36-04-S	11.2	106	130	Ø24.667	Ø24.667	Ø82.55	50	6.5	56.5	172	228.5	67

Port Size		
Model	Inlet / Outlet	Drain
SPMF-36-01-K	BSPP 1/2"	BSPP 3/8"
SPMF-36-01-S	BSPP 1/2"	BSPP 3/8"
SPMF-36-04-S	BSPP 1/2"	BSPP 3/8"

Dimension of Shaft				
Model	No. of Teeth	Pressure Angle	Module	Rule
SPMF-36-01-K	7 x 7 x 27	-	-	key type
SPMF-36-01-S	13	20°	1.667	JIS
SPMF-36-04-S	13	20°	1.667	JIS

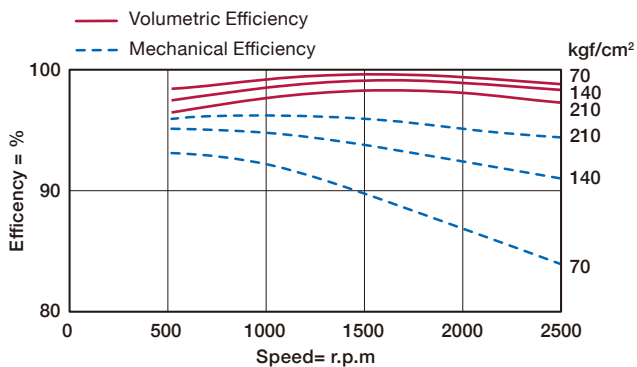
SPMF-39-01, 02

MODEL SPEC.

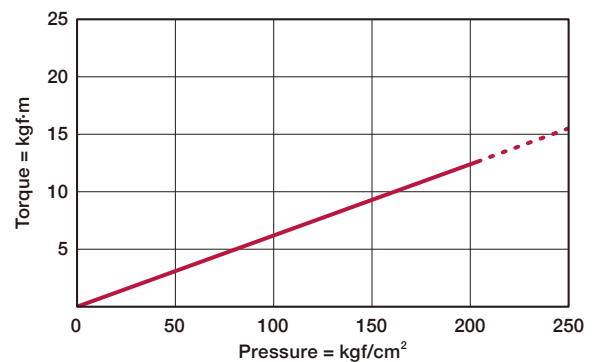
Model	Displacement (cc/rev)	Pressure (kgf/cm ²)		Torque (kgf·m)		Speed (r.p.m.)	Weight (kg)
		Rated	Max.	Rated	Max.		
SPMF-39-01, 02	39	210	250	13	15.5	2500	10.4

CURVE

► Performance Curve

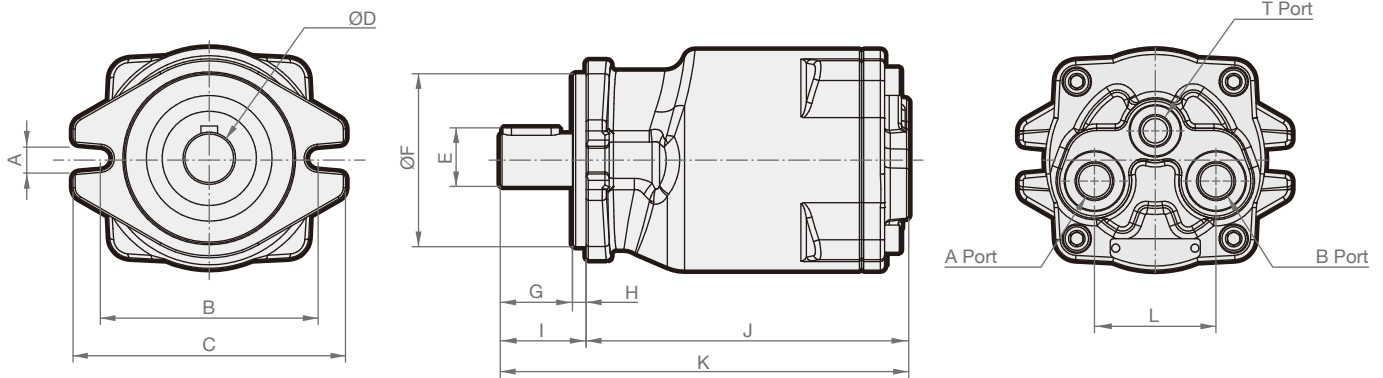


► Output torque



DIMENSION

(UNIT : mm)



Model	A	B	C	ØD	E	ØF	G	H	I	J	K	L
SPMF-39-01-K	15	146	170	Ø24	27	Ø101.6 ~ Ø101.549	32.1	9.1	41.2	172	213.2	67
SPMF-39-01-S	15	146	170	Ø24.667	Ø24.667	Ø82.55	32.1	9.1	41.2	172	213.2	67
SPMF-39-02-K	15	146	170	Ø25	28	Ø101.6 ~ Ø101.549	32.1	9.1	41.2	172	213.2	67

Port Size		
Model	Inlet / Outlet	Drain
SPMF-39-01-K	BSPP 1/2"	BSPP 3/8"
SPMF-39-01-S	BSPP 1/2"	BSPP 3/8"
SPMF-39-02-K	BSPP 1/2"	BSPP 3/8"

Dimension of Shaft				
Model	No. of Teeth	Pressure Angle	Module	Rule
SPMF-39-01-K	7 x 7 x 27	-	-	key type
SPMF-39-01-S	13	20°	1.667	JIS
SPMF-39-02-K	7 x 7 x 27	-	-	key type

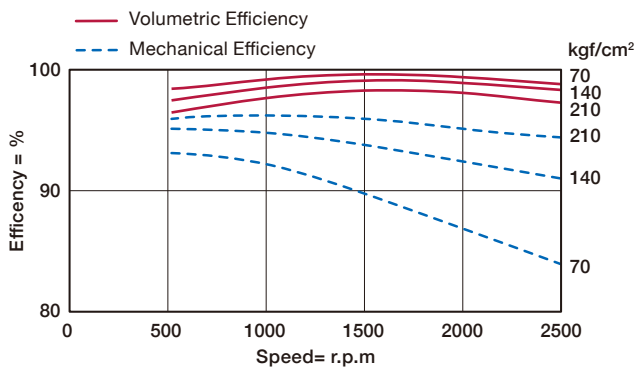
SPMF-39-03

MODEL SPEC.

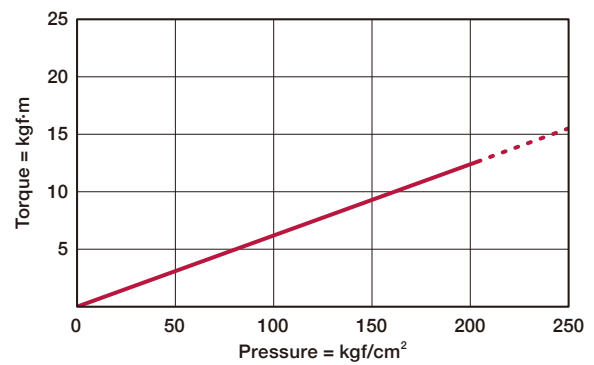
Model	Displacement (cc/rev)	Pressure (kgf/cm ²)		Torque (kgf·m)		Speed (r.p.m.)	Weight (kg)
		Rated	Max.	Rated	Max.		
SPMF-39-03	39	210	250	13	15.5	2500	10.4

CURVE

► Performance Curve

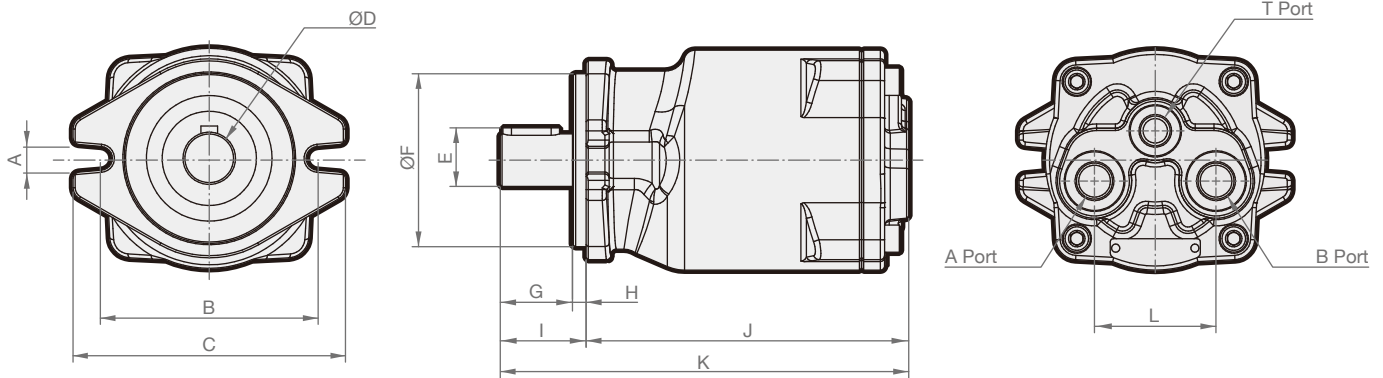


► Output torque



DIMENSION

(UNIT : mm)



Model	A	B	C	ØD	E	ØF	G	H	I	J	K	L
SPMF-39-03-K	15	146	170	Ø25	28	Ø101.6 ~ Ø101.549	37.5	9.1	46.6	172	218.6	67

Port Size

Model	Inlet / Outlet	Drain
SPMF-39-03-K	BSPP 3/8"	BSPP 1/4"

Dimension of Shaft

Model	No. of Teeth	Pressure Angle	Module	Rule
SPMF-39-03-K	7 x 7 x 31.5	-	-	key type

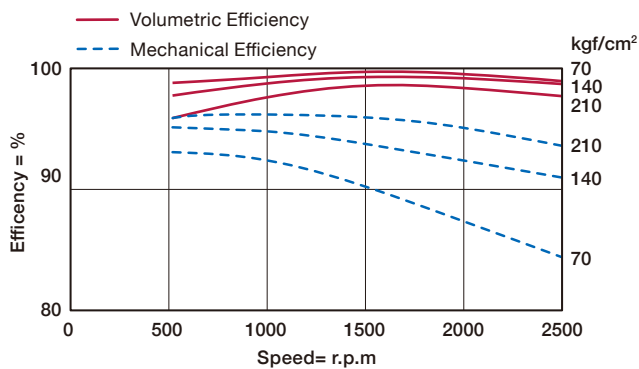
SPMF-43-01, 02, 03, 05

MODEL SPEC.

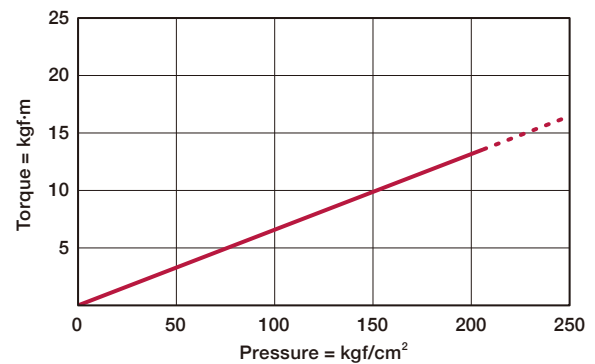
Model	Displacement (cc/rev)	Pressure (kgf/cm ²)		Torque (kgf·m)		Speed (r.p.m.)	Weight (kg)
		Rated	Max.	Rated	Max.		
SPMF-43-01	43	210	250	14.3	17.1	3000	10.4
SPMF-43-02, 03, 05	43.2	210	250	14.3	17.1	2800	10.4

CURVE

► Performance Curve

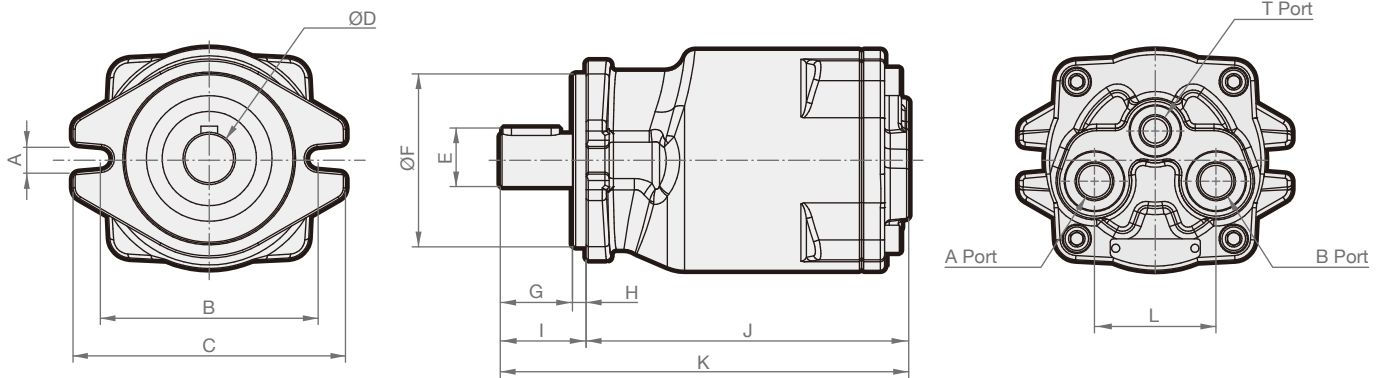


► Output torque



DIMENSION

(UNIT : mm)



Model	A	B	C	ØD	E	ØF	G	H	I	J	K	L
SPMF-43-01-K	13	146	170	Ø24	27	Ø101.6 ~ Ø101.549	32.1	9.1	41.2	172	213.2	67
SPMF-43-02-K	11.2	106	130	Ø22	25	Ø82.55	39.5	6.5	46	172	218	67
SPMF-43-03-S	11.2	106	130	Ø24.667	Ø24.667	Ø82.55	50	6.5	56.5	172	228.5	67
SPMF-43-05-K	11.2	106	130	Ø25	28	Ø82.55	43.5	6.5	50	172	222	67

Port Size		
Model	Inlet / Outlet	Drain
SPMF-43-01-K	BSPP 1/2"	BSPP 3/8"
SPMF-43-02-K	BSPP 1/2"	BSPP 3/8"
SPMF-43-03-S	BSPP 1/2"	BSPP 3/8"
SPMF-43-05-K	BSPP 1/2"	BSPP 3/8"

Dimension of Shaft				
Model	No. of Teeth	Pressure Angle	Module	Rule
SPMF-43-01-K	7 x 7 x 27	-	-	key type
SPMF-43-02-K	7 x 7 x 32	-	-	key type
SPMF-43-03-S	13	20°	1.667	JIS
SPMF-43-05-K	7 x 7 x 31.5	-	-	key type

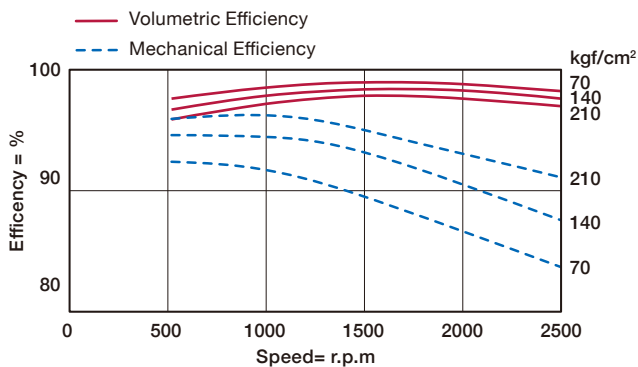
SPMF-47-01, 11

MODEL SPEC.

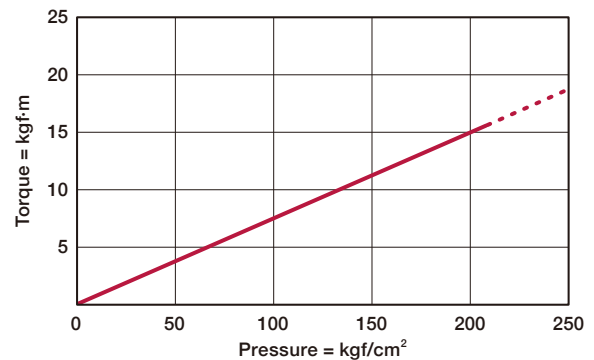
Model	Displacement (cc/rev)	Pressure (kgf/cm ²)		Torque (kgf·m)		Speed (r.p.m.)	Weight (kg)
		Rated	Max.	Rated	Max.		
SPMF-47-01, 11	47	210	250	15.7	18.7	3000	10.4

CURVE

► Performance Curve

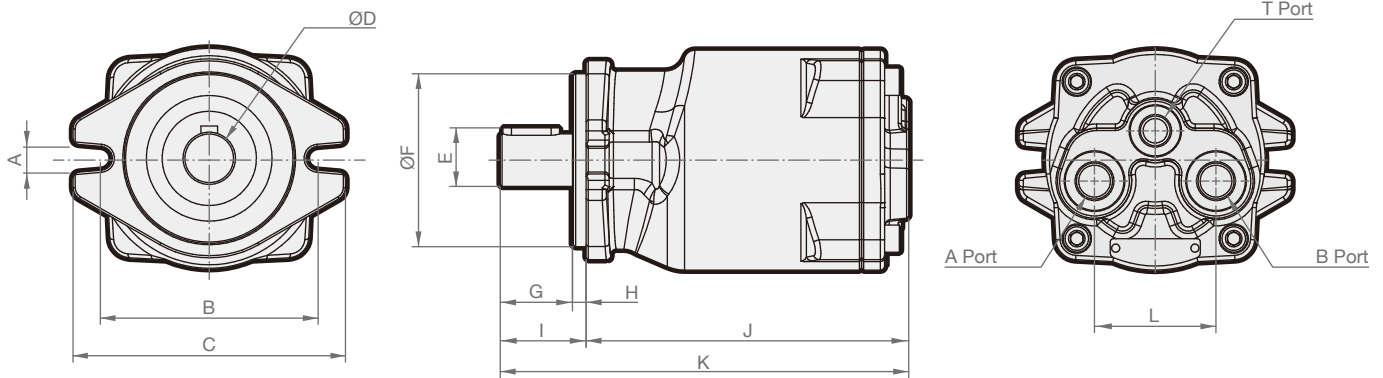


► Output torque



DIMENSION

(UNIT : mm)



Model	A	B	C	ØD	E	ØF	G	H	I	J	K	L
SPMF-47-01-K	15	146	170	Ø24	27	Ø101.6 ~ Ø101.549	32.1	9.1	41.2	172	213.2	67
SPMF-47-01-S	15	146	170	Ø24.667	Ø24.667	Ø101.6 ~ Ø101.549	51.5	9.1	60.6	172	232.6	67
SPMF-47-11-K	11.2	106	130	Ø25	28	Ø82.55	48.5	6.5	55	172	227	67

Port Size		
Model	Inlet / Outlet	Drain
SPMF-47-01-K	BSPP 1/2"	BSPP 3/8"
SPMF-47-01-S	BSPP 1/2"	BSPP 3/8"
SPMF-47-11-K	BSPP 1/2"	BSPP 3/8"

Dimension of Shaft				
Model	No. of Teeth	Pressure Angle	Module	Rule
SPMF-47-01-K	7 x 7 x 27	-	-	key type
SPMF-47-01-S	13	20°	1.667	JIS
SPMF-47-11-K	8 x 7 x 38	-	-	key type

A10F

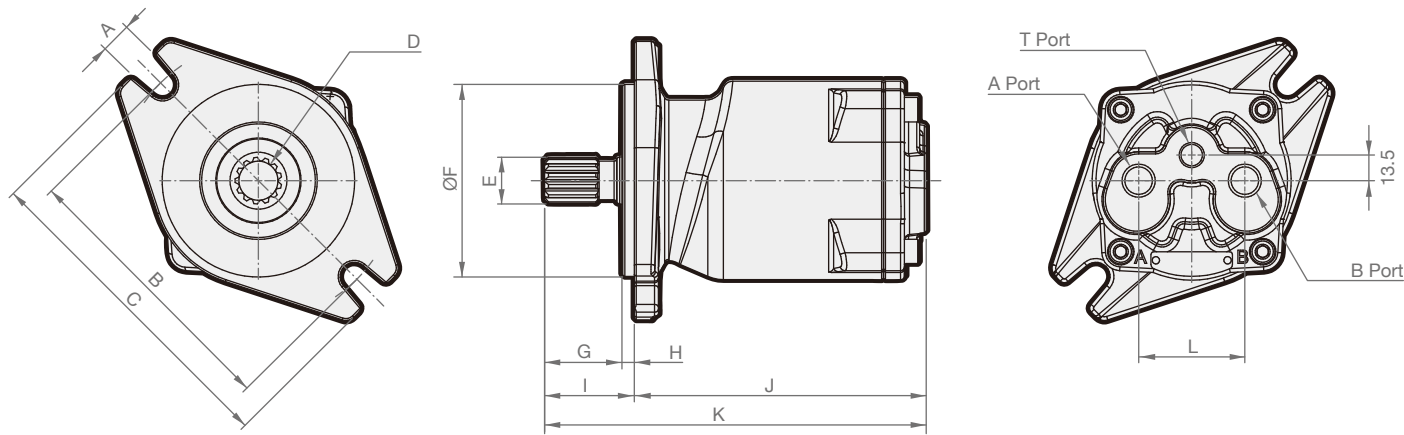


MODEL SPEC.

Model	Pressure (kgf/cm ²)	Speed (r.p.m.)	Weight (kg)
A10F	280	3600	10.4

DIMENSION

(UNIT : mm)



Model	A	B	C	D / E	ØF	G	H	I	J	K	L
A10F25	15	146	174	Ø24.667 x M1.667 x 13T x 20°	Ø101.6	40.8	6.5	47.3	154	201.3	56

Port Size

Model	Inlet / Outlet	Drain
A10F25	PT 3/8"	PT 1/4"

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