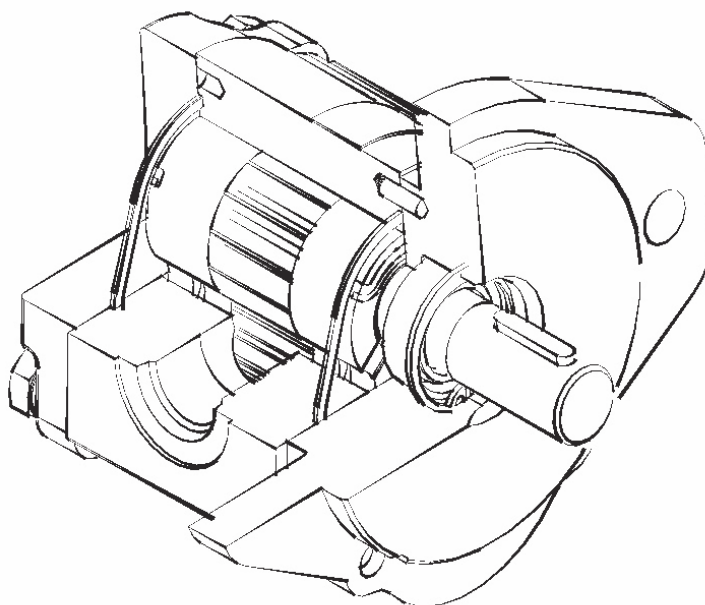


Displacement from 2 to 15 ccm
Pressure up to 280 bar
Speed from 500 to 4000 RPM

GEAR MOTORS
JM

TABLE OF CONTENTS

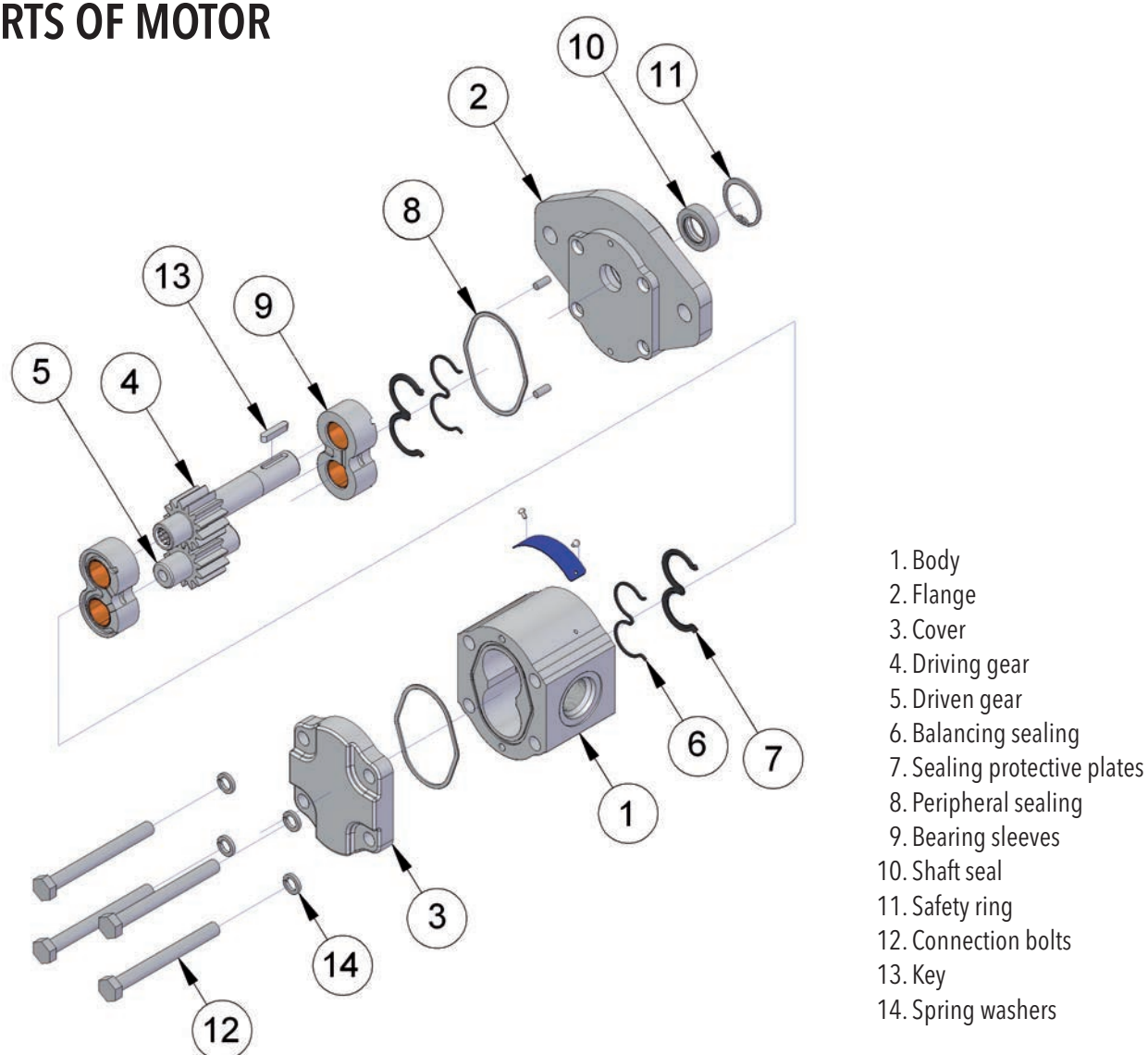
DESCRIPTION.....	2
BASIC PARTS OF MOTOR.....	2
PARAMETER TABLE	3
FORMULAS USED FOR CALCULATION.....	5
MOTOR EFFICIENCIES	5
WORKING LIQUID.....	6
PRESSURE LOAD.....	6
DIRECTION OF ROTATION	7
REVERSIBLE DESIGN.....	7
JM FLOW RATE AND POWER CURVES.....	8
ORDER KEY.....	11
COMBINATIONS OF FLANGES AND SHAFTS	12
FLANGES DESIGN.....	13
DRIVE SHAFTS	14
LIQUID INLET AND OUTLET CONNECTION.....	16
CATALOGUE SHETS OF JM SERIES BASIC DESIGNS.....	17
NOTES	21



DESCRIPTION

- Gear motors are used for transformation of liquid pressure head in mechanical energy. The JM line motors are designed for advanced hydraulic systems with lower capacity (approximately up to 10 kW) with high operational reliability and long service life. A wide variety of designs with diverse drives, connecting flanges, fluid inlets and outlets enable the motors to be used in hydraulic systems of both fixed and mobile machines and equipment. The JM series covers the range of displacements from 2 to 15 cm³/rev.
- The flange types used as well as the form of the working liquid inlets and outlets (located laterally – in the body or axially – in the cover) meet all worldwide standards. The pump body is made of a heavy duty aluminium alloy. The cover and the flange are made of grey iron or aluminium alloy, and gear wheels of heavy duty steel. Axle pins with a high surface duality are imbedded in sliding sleeves, continuously lubricated and cooled by a stream of working liquid. JM line motors can be delivered in one-way design as clockwise or anti-clockwise rotating engines; they are also available in reversible version.

BASIC PARTS OF MOTOR



PARAMETER TABLE

One direction motors

Nominal Size Parameters		Sym.	Unit	JM 2	JM 3	JM 4	JM 5	JM 6	JM 7
Actual displacement		V_g	[cm ³]	2.00	3.01	4.01	5.01	6.02	7.02
Rotation speed	nominal	n_n	[min ⁻¹]	1500	1500	1500	1500	1500	1500
	minimum	n_{min}	[min ⁻¹]	500	500	500	500	500	500
	maximum	n_{max}	[min ⁻¹]	4000	4000	4000	4000	3600	3500
Pressure at outlet	minimum	p_{1min}	[bar]	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3
	maximum	p_{1max}	[bar]	210	210	210	210	210	210
Pressure at inlet	max. continuous	p_{2n}	[bar]	280	280	280	280	280	280
	maximum	p_{2max}	[bar]	290	290	290	290	290	290
	peak	p_3	[bar]	300	300	300	300	300	300
Nominal input flow rate (max.) at n_n and p_{2n}		Q_n	[dm ³ .min ⁻¹]	3.54	5.31	6.84	8.55	10.03	11.70
Maximum input flow rate at n_{max} and p_{2max}		Q_{max}	[dm ³ .min ⁻¹]	8.55	12.81	17.08	21.34	23.04	24.64
Nominal output power (min.) at n_n and p_{2n}		P_n	[kW]	1.20	1.80	2.40	3.00	3.60	4.20
Maximum output power at n_{max} and p_{2max}		P_{max}	[kW]	3.28	4.92	6.56	8.20	8.86	9.47
Nominal Torque at n_n and p_{2n}		M	[Nm]	7.61	11.40	15.20	19.00	22.79	26.59
Weight		m	[kg]	1.75	1.80	1.85	1.90	1.95	1.95

Nominal Size Parameters		Sym.	Unit	JM 8	JM 10	JM 11	JM 12	JM 15
Actual displacement		V_g	[cm ³]	8.02	10.03	11.03	12.03	15.01
Rotation speed	nominal	n_n	[min ⁻¹]	1500	1500	1500	1500	1500
	minimum	n_{min}	[min ⁻¹]	500	500	500	500	500
	maximum	n_{max}	[min ⁻¹]	3100	2800	2500	2400	2200
Pressure at outlet	minimum	p_{1min}	[bar]	-0.3	-0.3	-0.3	-0.3	-0.3
	maximum	p_{1max}	[bar]	210	180	165	150	110
Pressure at inlet	max. continuous	p_{2n}	[bar]	280	250	235	220	190
	maximum	p_{2max}	[bar]	290	270	255	240	210
	peak	p_3	[bar]	300	280	265	250	220
Nominal input flow rate (max.) at n_n and p_{2n}		Q_n	[dm ³ .min ⁻¹]	13.37	16.71	18.38	20.05	25.06
Maximum input flow rate at n_{max} and p_{2max}		Q_{max}	[dm ³ .min ⁻¹]	25.60	29.86	28.16	30.71	35.19
Nominal output power (min.) at n_n and p_{2n}		P_n	[kW]	4.80	5.30	5.48	5.60	5.72
Maximum output power at n_{max} and p_{2max}		P_{max}	[kW]	9.94	10.69	9.62	9.87	9.90
Nominal Torque at n_n and p_{2n}		M	[Nm]	30.38	35.06	35.80	36.62	35.06
Weight		m	[kg]	2.00	2.10	2.10	2.20	2.45

Reversible motors

Nominal Size Parameters		Sym.	Unit	JM 2	JM 3	JM 4	JM 5	JM 6	JM 7
Actual displacement		V_g	[cm ³]	2.00	3.01	4.01	5.01	6.02	7.02
Rotation speed	nominal	n_n	[min ⁻¹]	1500	1500	1500	1500	1500	1500
	minimum	n_{min}	[min ⁻¹]	500	500	500	500	500	500
	maximum	n_{max}	[min ⁻¹]	4000	4000	4000	4000	3600	3500
Pressure at outlet	minimum	p_{1min}	[bar]	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3
	maximum	p_{1max}	[bar]	180	180	180	180	180	180
Pressure at inlet	max. continuous	p_{2n}	[bar]	250	250	250	250	250	250
	maximum	p_{2max}	[bar]	260	260	260	260	260	260
	peak	p_3	[bar]	270	270	270	270	270	270
Nominal input flow rate (max.) at n_n and p_{2n}		Q_n	[dm ³ .min ⁻¹]	3.54	5.31	6.84	8.55	10.03	11.70
Maximum input flow rate at n_{max} and p_{2max}		Q_{max}	[dm ³ .min ⁻¹]	8.55	12.81	17.08	21.34	23.04	24.64
Nominal output power (min.) at n_n and p_{2n}		P_n	[kW]	1.20	1.80	2.40	3.00	3.60	4.20
Maximum output power at n_{max} and p_{2max}		P_{max}	[kW]	3.28	4.92	6.56	8.20	8.86	9.47
Nominal Torque at n_n and p_{2n}		M	[Nm]	7.61	11.40	15.20	19.00	22.79	26.59
Weight		m	[kg]	1.75	1.80	1.85	1.90	1.95	1.95

Nominal Size Parameters		Sym.	Unit	JM 8	JM 10	JM 11	JM 12	JM 15
Actual displacement		V_g	[cm ³]	8.02	10.03	11.03	12.03	15.01
Rotation speed	nominal	n_n	[min ⁻¹]	1500	1500	1500	1500	1500
	minimum	n_{min}	[min ⁻¹]	500	500	500	500	500
	maximum	n_{max}	[min ⁻¹]	3100	2800	2500	2400	2200
Pressure at outlet	minimum	p_{1min}	[bar]	-0.3	-0.3	-0.3	-0.3	-0.3
	maximum	p_{1max}	[bar]	180	160	145	130	100
Pressure at inlet	max. continuous	p_{2n}	[bar]	250	230	215	200	170
	maximum	p_{2max}	[bar]	260	250	235	220	190
	peak	p_3	[bar]	270	260	245	230	200
Nominal input flow rate (max.) at n_n and p_{2n}		Q_n	[dm ³ .min ⁻¹]	13.37	16.71	18.38	20.05	25.06
Maximum input flow rate at n_{max} and p_{2max}		Q_{max}	[dm ³ .min ⁻¹]	25.60	29.86	28.16	30.71	35.19
Nominal output power (min.) at n_n and p_{2n}		P_n	[kW]	4.80	5.30	5.48	5.60	5.72
Maximum output power at n_{max} and p_{2max}		P_{max}	[kW]	9.94	10.69	9.62	9.87	9.90
Nominal Torque at n_n and p_{2n}		M	[Nm]	30.38	35.06	35.80	36.62	35.06
Weight		m	[kg]	2.00	2.10	2.10	2.20	2.45

External drainage must be used in case of the reversible design.

FORMULAS USED FOR CALCULATION

Flow rate
 Q

$$Q = \frac{V_g \cdot n}{1000} \cdot \eta_v \quad [\text{dm}^3 \cdot \text{min}^{-1}]$$

V_g [cm³] pump displacement
 n [min⁻¹] rotation speed
 η_v [-] volumetric efficiency

Displacement
 V_g

$$V_g = \frac{Q \cdot 1000}{n \cdot \eta_v} \quad [\text{cm}^3]$$

Torque
 M_k

$$M_k = \frac{V_g \cdot p}{20 \cdot \pi \cdot \eta_m} \quad [\text{Nm}]$$

p [bar] required pressure at outlet
 η_m [-] mechanical efficiency

Input power
 P

$$P = \frac{V_g \cdot n \cdot p}{600 \cdot 1000 \cdot \eta_t} \quad [\text{kW}]$$

η_t [-] total efficiency

PUMP EFFICIENCIES

Volumetric efficiency
 η_v

It determines the amount of flow losses. Its value is $\eta_v = 0,92 \div 0,98$ (depending on rotation speed, viscosity of working liquid and outlet pressure). It can be expressed as follows:

$$\eta_v = \frac{Q_{act.}}{Q_{theor}} \quad [-]$$

$Q_{act.}$ [dm³ · min⁻¹] actual flow rate
 Q_{theor} [dm³ · min⁻¹] theoretical flow rate

Mechanical efficiency
 η_m

It determines mechanical losses. Its value is about $\eta_m = 0,85$. It can be expressed as follows:

$$\eta_m = \frac{M_{theor}}{M_{act.}} \quad [-]$$

$M_{act.}$ [Nm] actual torque
 M_{theor} [Nm] theoretical torque

Total efficiency
 η_t

It is defined as product of η_v and η_m and determines difference between theoretical and actual required input power:

$$\eta_t = \eta_v \cdot \eta_m = \frac{P_{theor}}{P_{act.}} \quad [-]$$

$P_{act.}$ [kW] actual input power
 P_{theor} [kW] theoretical input power

WORKING LIQUID

- Mineral oils for hydraulic drives
- Hydraulic liquids based on plant oils suitable for hydraulic drives

Liquid temperature

- $t = -20 \div +80$ [°C]
when used with FKM (Viton) seal up to 120 [°C]

Cinematic viscosity

- Recommended (during continuous operation):
 $\nu = 20 \div 80 \cdot 10^{-6} [\text{m}^2 \cdot \text{s}^{-1}]$
- Maximum (cold starting, at viscosity > 1000 , operating pressure < 10 bar is permissible, speed $< 1500 \cdot \text{min}^{-1}$):
 $\nu = 1200 \cdot 10^{-6} [\text{m}^2 \cdot \text{s}^{-1}]$
- Minimum (operating mode at $10 \cdot 10^{-6}$ up $20 \cdot 10^{-6}$ should be consulted with manufacturer):
 $\nu = 10 \cdot 10^{-6} [\text{m}^2 \cdot \text{s}^{-1}]$

Filtration coefficient β_α

$\beta_{25\ 75} \geq$ (for pressure $p_2 < 200$ bar)
 $\beta_{10\ 75} \geq$ (for pressure $p_2 > 200$ bar)

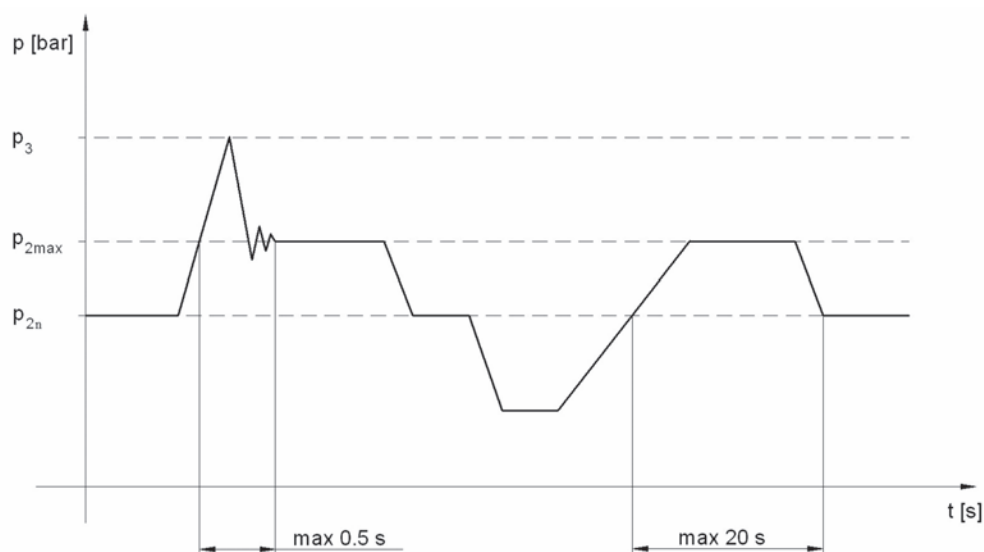
Liquid contamination class according to ISO 4406

21/18/15 (for pressure $p_2 < 200$ bar)
20/17/14 (for pressure $p_2 > 200$ bar)

Liquid contamination class according to NAS 1638

10 (for pressure $p_2 < 200$ bar)
8 (for pressure $p_2 > 200$ bar)

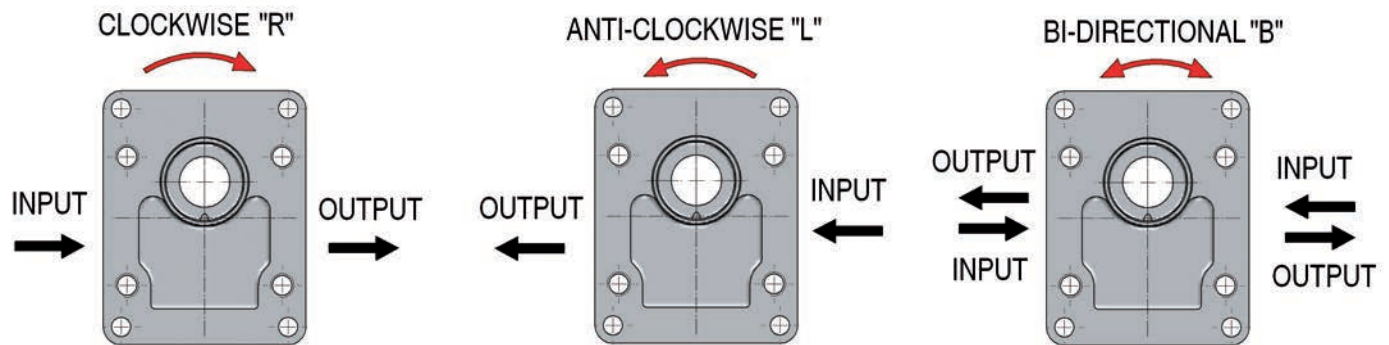
PRESSURE LOAD



- p_{2n} **max. contin. pressure** Max. working pressure, at which the pump can be operated without time limitation.
- p_{2max} **max. pressure** Maximum pressure permissible for a short time, max. 20s.
- p_3 **peak pressure** Short-time pressure (fractions of a second) arising in case of a sudden change of the operating mode; any excess of this pressure during operation is impermissible.

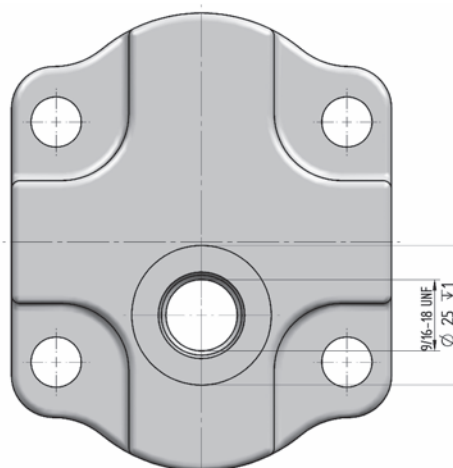
DIRECTION OF ROTATION

- Determine direction of rotation by looking at the drive shaft. The motor can only be used in the specified direction of rotation.

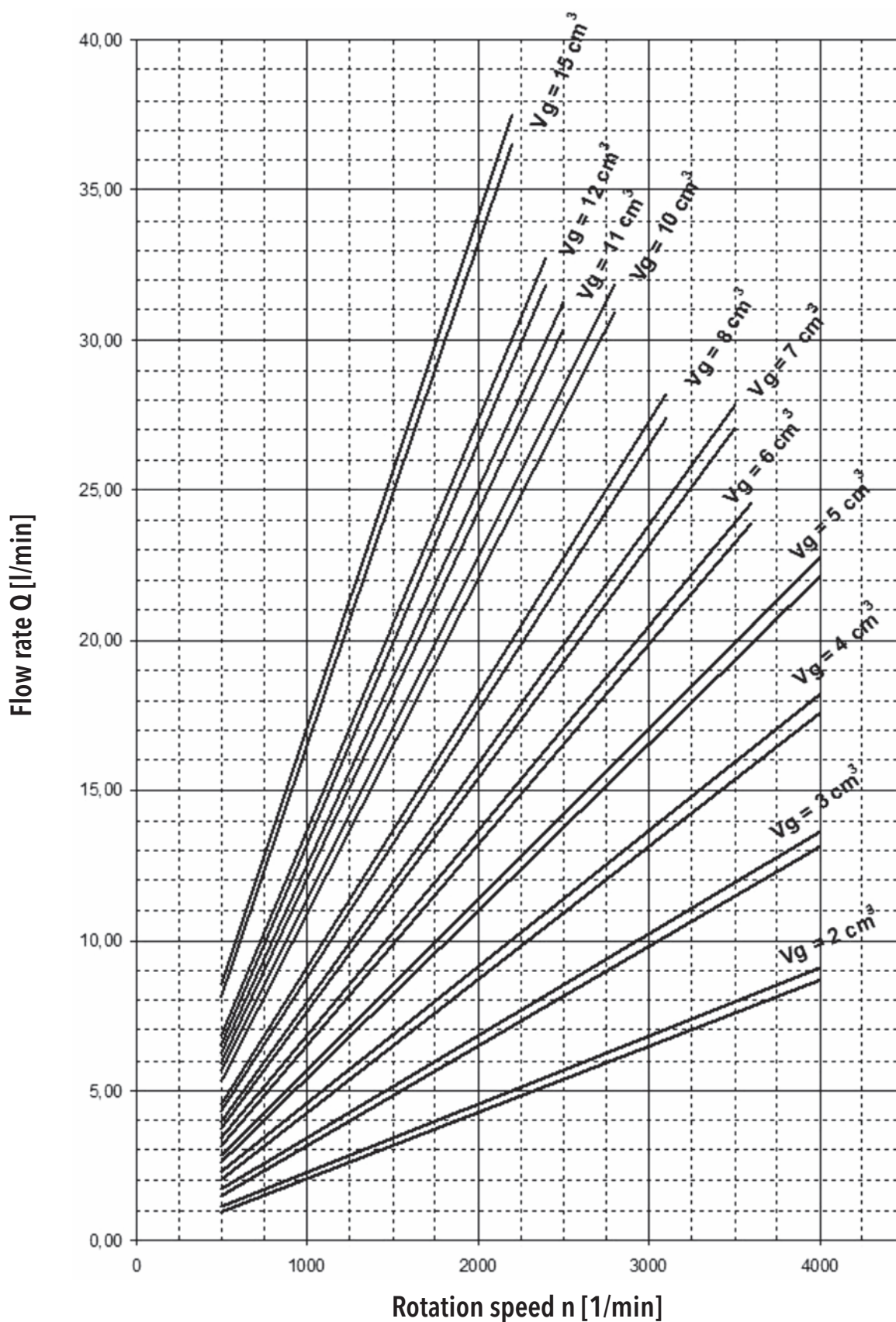


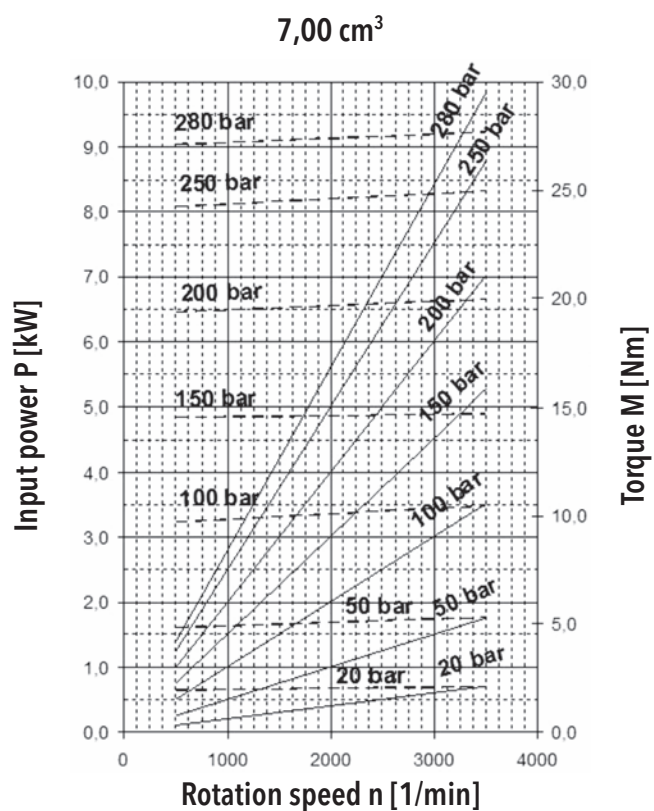
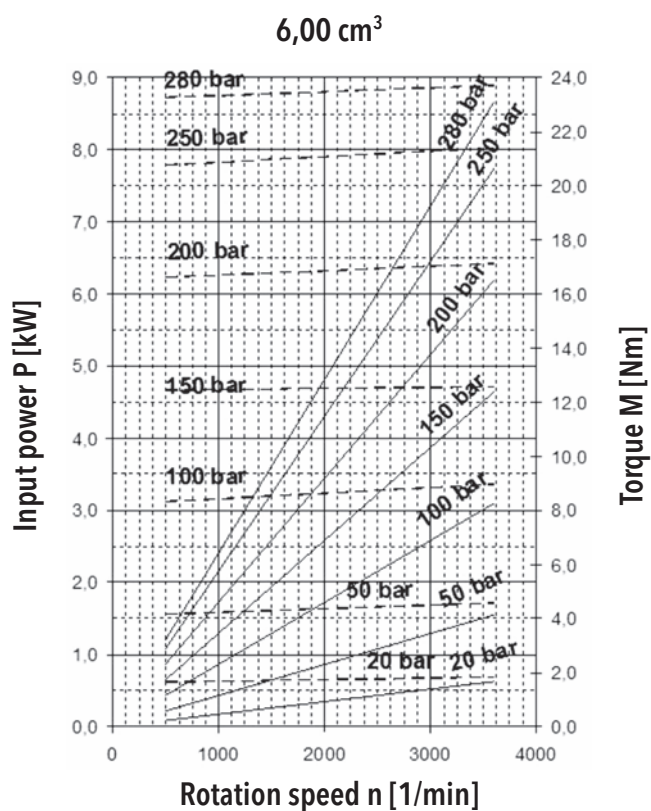
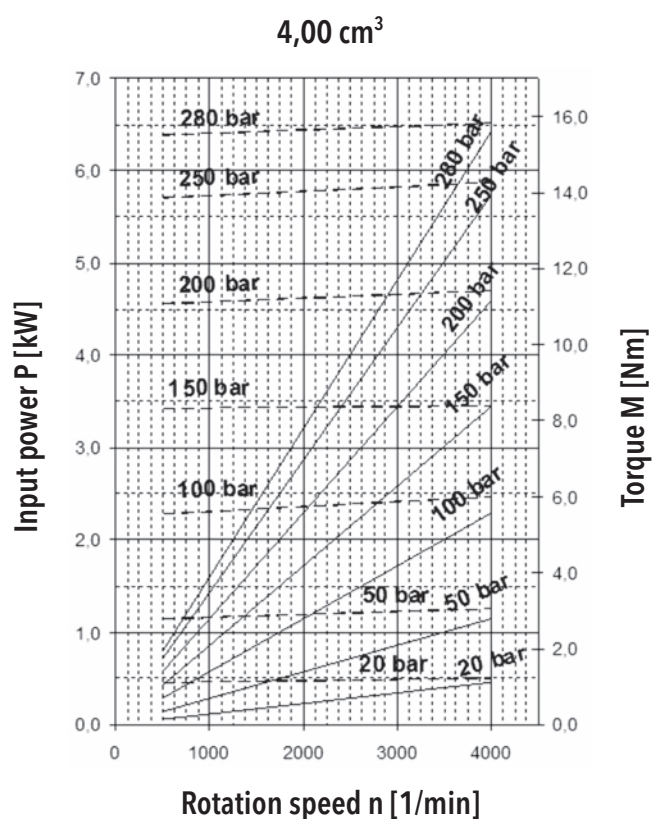
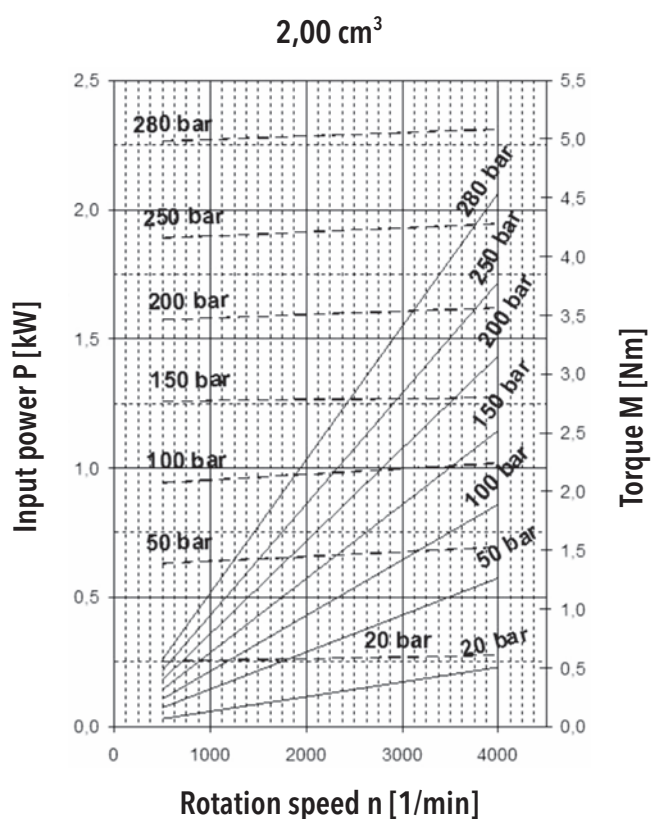
REVERSIBLE DESIGN

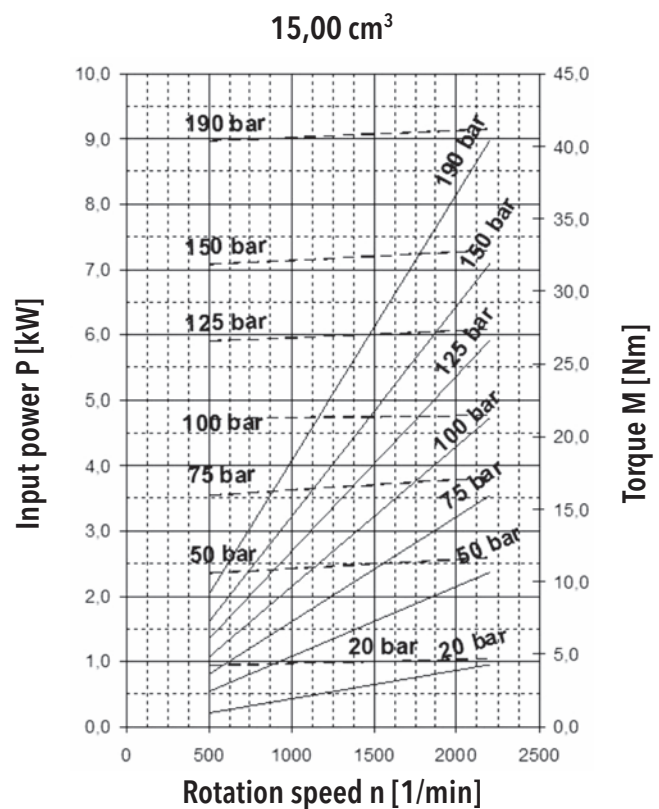
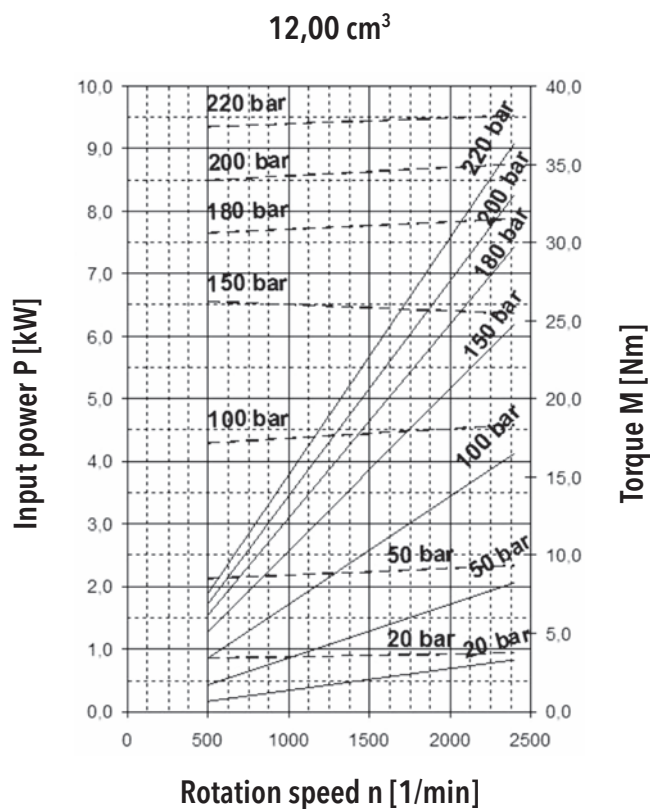
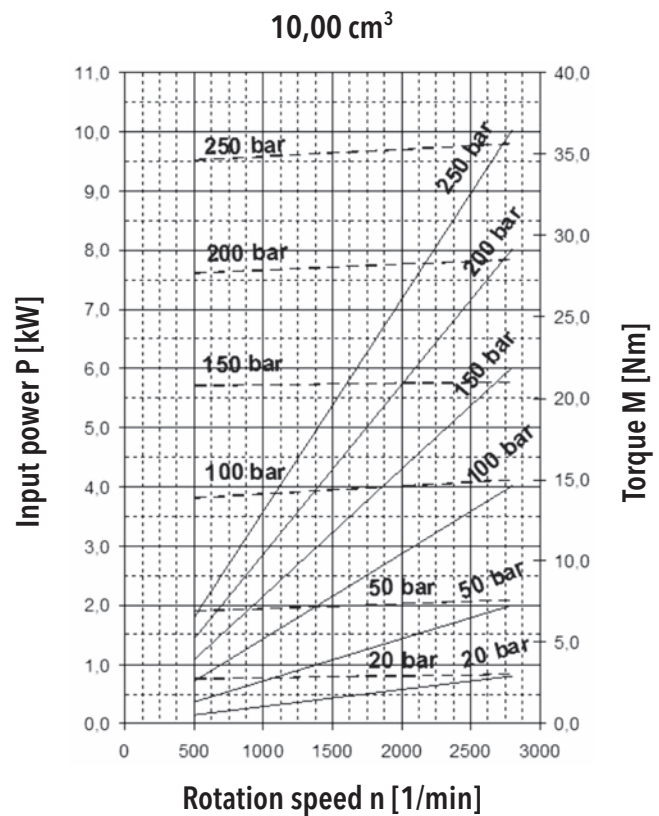
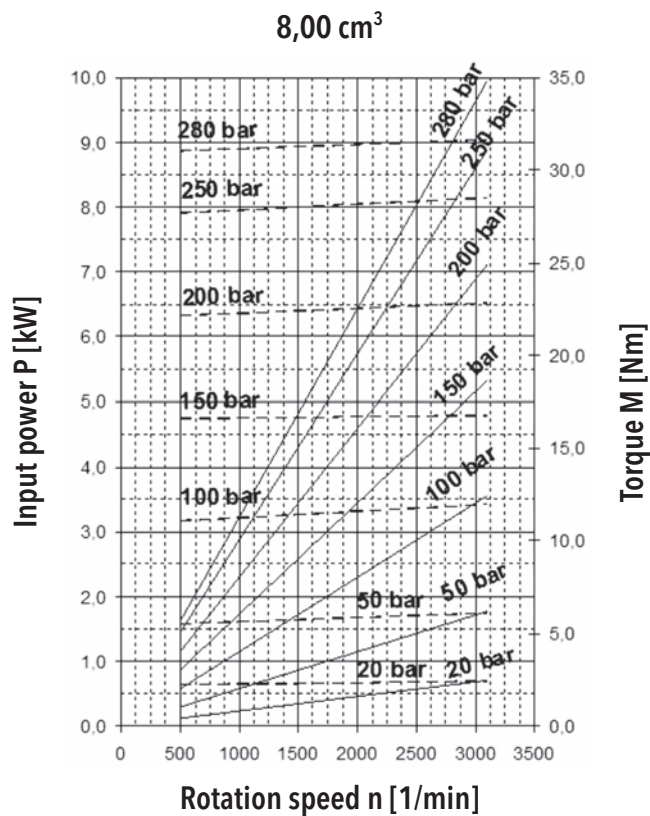
- The motors with the possibility of bidirectional rotation have a different internal arrangement requiring drainage. Two types are used - internal and external. The internal drainage is always interconnected with the outlet by means of valves. The external drainage is solved by an orifice located in the cover opposite the driven gear.



JM FLOW RATE AND POWER CURVES







ORDER KEY

J - 12 R - S01 D03 - S G04 G03 - V . 001

Code	Displacement [cm ³]
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
18	18
XX	Other displacements on request

Code	Direction of rotation
R	Clockwise rotation
L	Anti-clockwise rotation
B	Bi-directional rotation

Code	Type
J	J Series Gear Pump
JK	J Series Gear Pump, short version

Code	Flange design
R03	Rectangular flange, centre ring Ø 30
R05	Rectangular flange, centre ring Ø 36,5
S01	SAE AA, centre ring Ø 50,8
S02	SAE A, centre ring Ø 82,5
F01	ISO, centre ring Ø 45,25
Z	Special design

Code	Location of inlets and outlets
S	Side (in the body)
R	Axial (in the cover)
C	Combination

Code	Drive shaft design
C05	Cone 1:8 Key width 3
C06	Cone 1:8 Key width 2,4
D02	Spline 20/40 -30° SAE 9T, l = 9
D03	Spline 20/40 -30° SAE 9T, l = 27
D04	Spline 16/32 -30° SAE 9T, l = 32
D05	Spline 16/32 -30° SAE 8T, l = 32
K05	Cross coupling 4,37
K06	Cross coupling 5
V06	Cylindric Ø 12, Key 3, M10, l = 31,5
V07	Cylindric Ø 12,7 Key 3,18, l = 27
V08	Cylindric Ø 12,7 Key 3,18, l = 38,2
V09	Cylindric Ø 15,88 Key 3,97, l = 32
V10	Cylindric Ø 16 1/4"-20UNC THD
Z	Special design

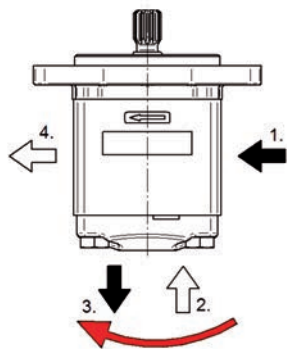
Code	Special arrangements
-	No special arrangements
001	With front-end bearing
004	Without shaft seal

Code	Sealing material
N	NBR
V	FKM (VITON)
H	HNBR

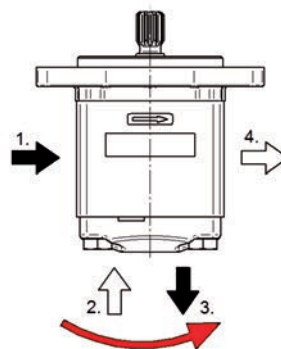
Code	Liquid inlet and outlet connection shape
M03	Thread M 14x1,5
M05	Thread M 18x1,5
M07	Thread M 22x1,5
G01	Thread BSP G1/4
G02	Thread BSP G3/8
G03	Thread BSP G1/2
G04	Thread BSP G3/4
U02	Thread 9/16-18 UNF-2B
U03	Thread 3/4-16 UNF-2B
U04	Thread 7/8-14 UNF-2B
R02	Thread 3/8-18NPT
R03	Thread 1/2-14NPT
H03	Fitting Ø 8; Square 4xM6 Ø30
H04	Fitting Ø 12; Square 4xM6 Ø30
H05	Fitting Ø 15; Square 4xM6 Ø35
H06	Fitting Ø 20; Square 4xM6 Ø40
S02	Fitting Square 4xM8/25,15x25,15
Z	Special design

An example of designation for the JM clockwise motor with displacement of 2 cm³, Rectangular flange with centre ring Ø 50,8, Cylindric Ø12, BSP side inlets, FKM seal and with front-end bearing: **JM-2R-R03V06-SG04G03-V.001**

Note: In case of combination inlets, with the code „C” is respected following sequence of inlets and outlets:



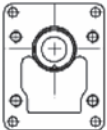
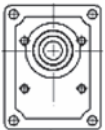
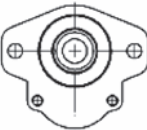
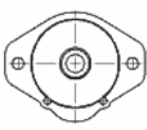
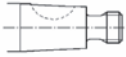
For clockwise and reverse gear motor,
in direction clockwise



For anti-clockwise gear motor,
in direction anti-clockwise

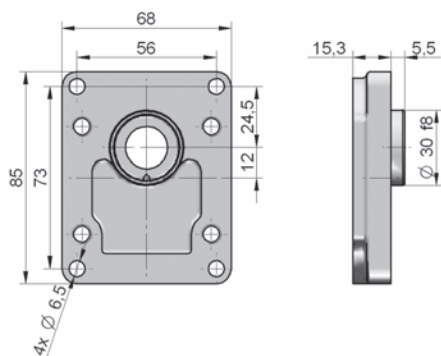
For. ex....: JM-12R-S01D03-CG03 G03 G04 G04 -N
1. 2. 3. 4.

COMBINATIONS OF FLANGES AND SHAFTS

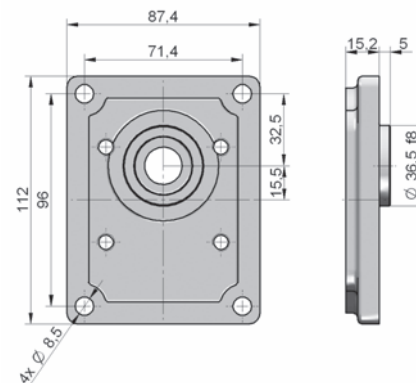
			FLANGE DESIGN				
			R03	R05	S01	S02	F01
							
DRIVE SHAFT	C05		●	●	●		
	C06		●	●		●	
	D02				●		●
	D03				●	●	●
	D04				●	●	
	D05				●	●	
	K05						●
	K06				●		
	V06		●				
	V07				●		
	V08		●		●	●	●
	V09			●		●	●
	V10						●

FLANGES DESIGN

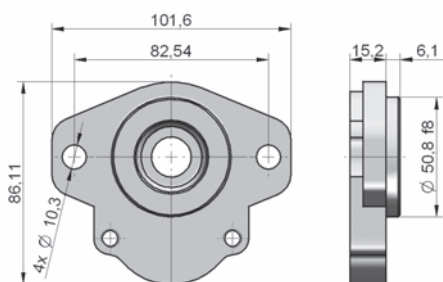
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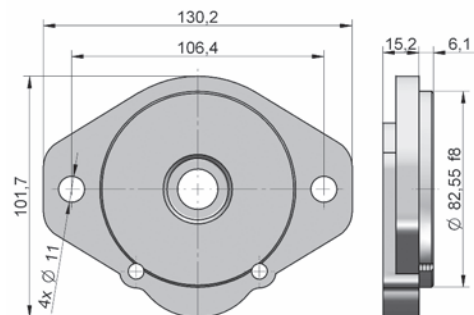
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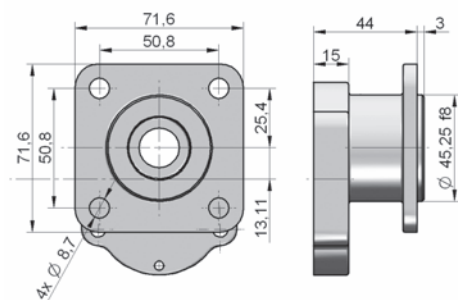
S01:



S02:

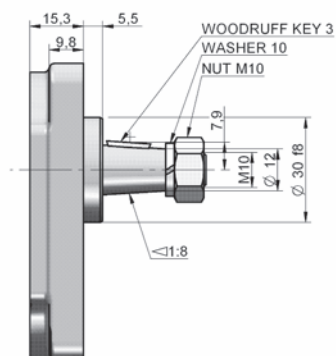


F01:

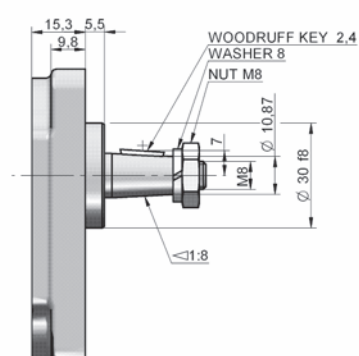


DRIVE SHAFTS

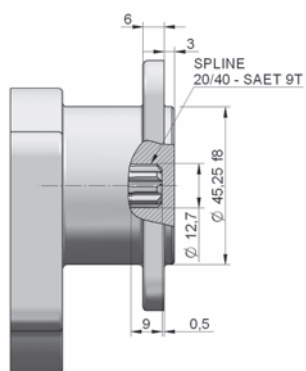
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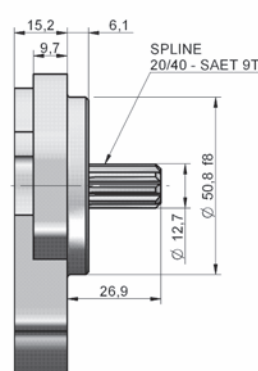
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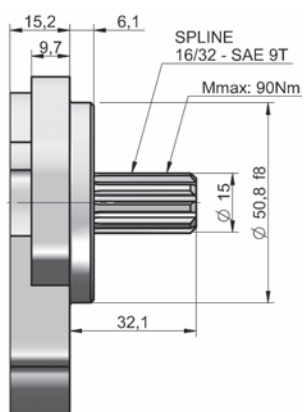
D02:



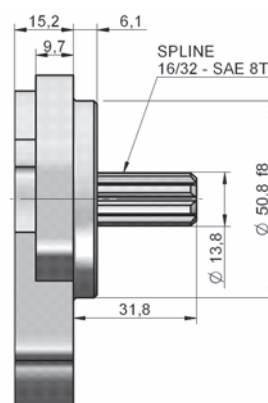
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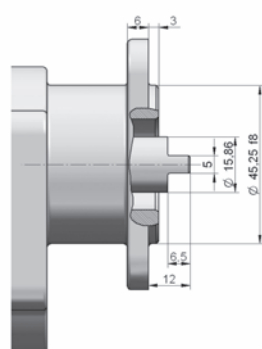
D04:



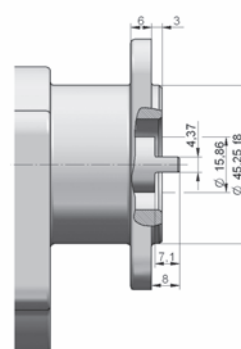
D05:



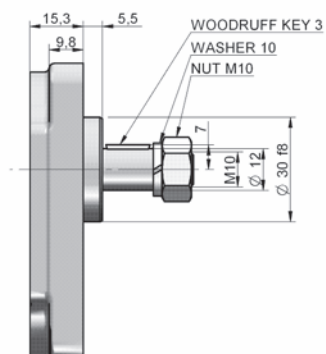
K05:



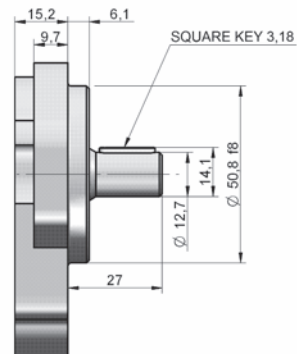
K06:



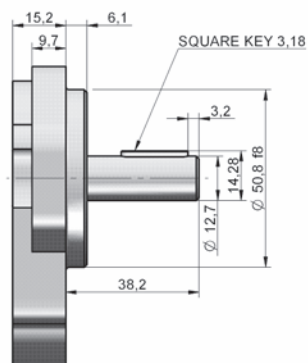
V06:



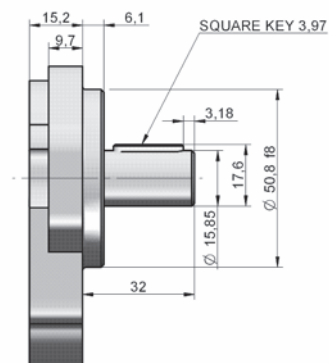
V07:



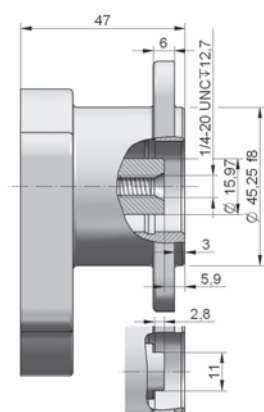
V08:



V09:

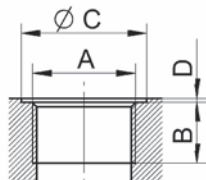


V10:



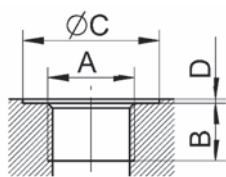
LIQUID INLET AND OUTLET CONNECTION

Metric thread according to ISO 6149



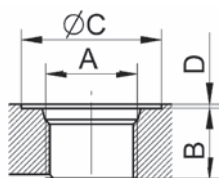
Code	A	B	C	D
M03	M 14 x 1.5	13	22	1
M05	M 18 x 1.5	13	24	1
M07	M 22 x 1.5	14	28	1

BSPP pipe thread according to ISO 228-1



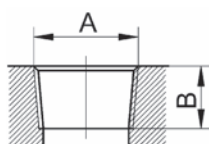
Code	A	B	C	D
G01	G 1/4	12	18	1
G02	G 3/8	13	24	1
G03	G 1/2	14	33	1
G04	G 3/4	16	39	1

UNF thread according to SAE



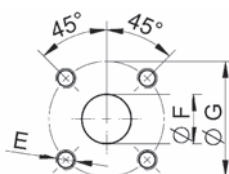
Code	A	B	C	D
U02	9/16 - 18 UNF	13	25	1
U03	3/4 - 16 UNF	15	30	1
U04	7/8 - 14 UNF	17	34	1

Tapered thread NPT



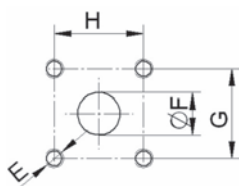
Code	A	B
R02	3/8 - 18 NPT	16.0
R03	1/2 - 14 NPT	20.8

Flanged fittings according to DIN 8901/8902



Code	A	B	C
H03	M6	8	30
H04	M6	12	30
H05	M6	15	35
H06	M6	20	40

Flanged fittings ISO

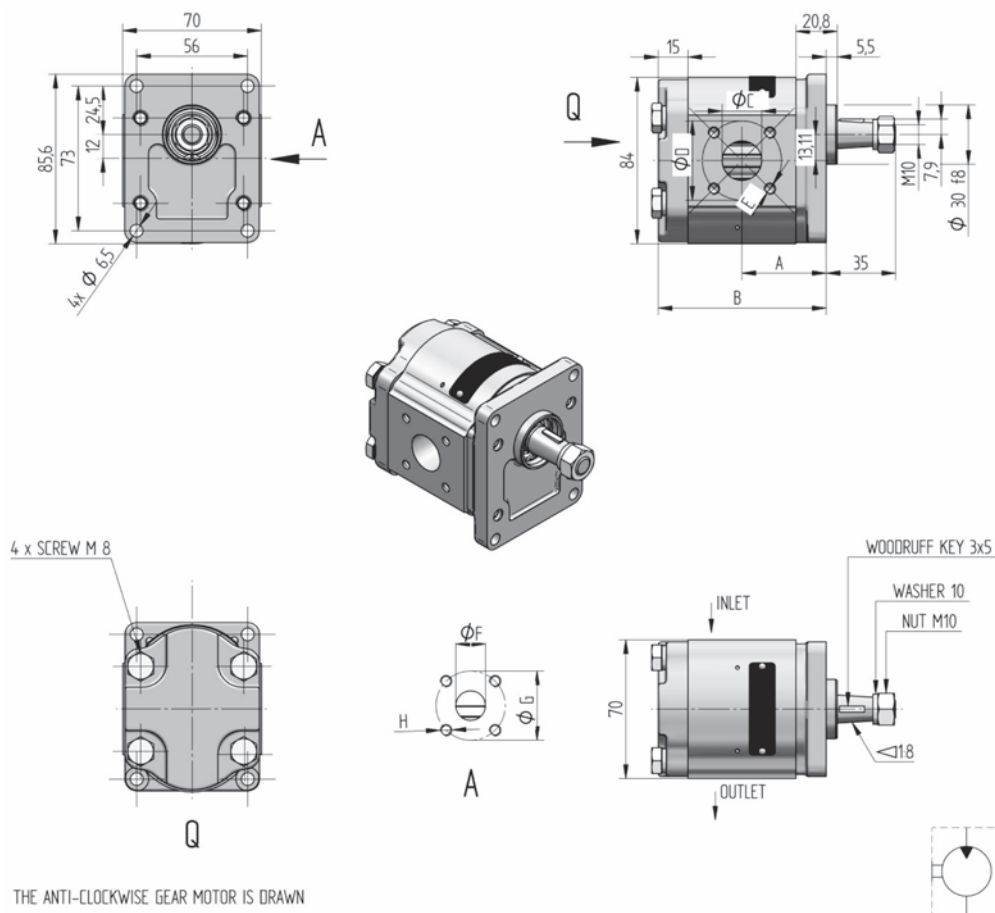


Code	E	F	G	H
S02	1/4 UNC	14.2	25.15	25.15
S03	M8	14.2	25.15	25.15

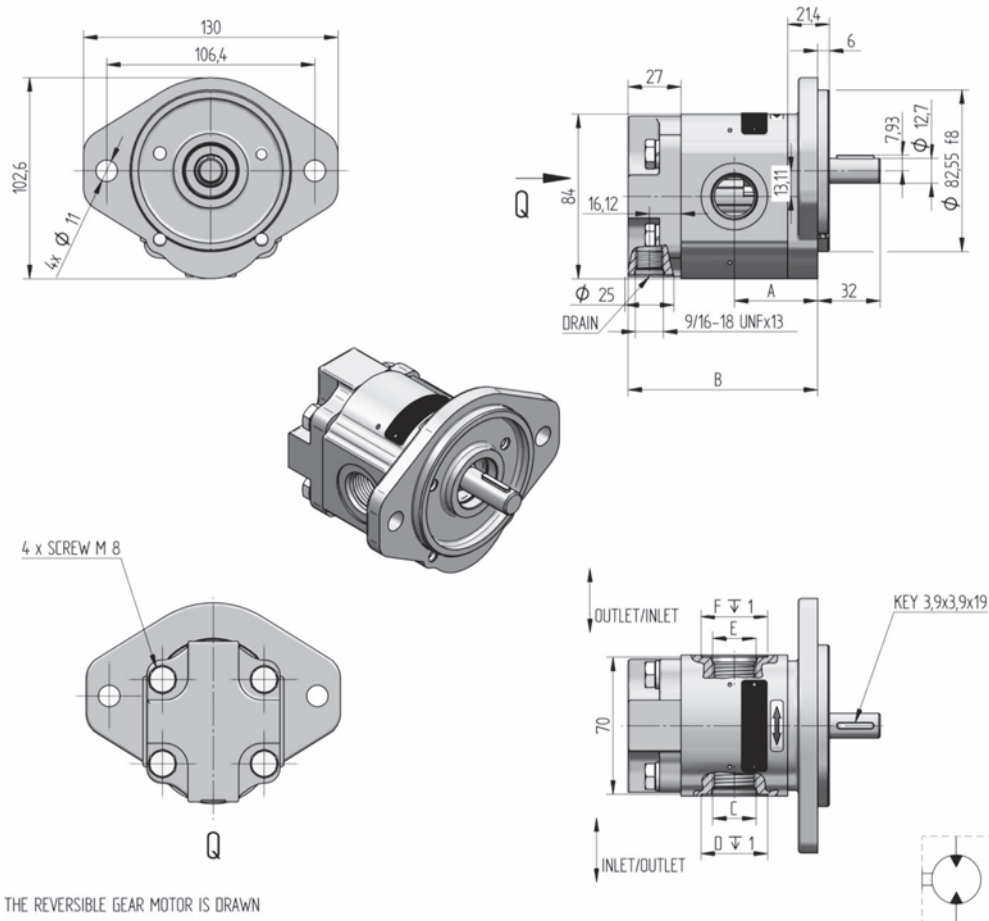
Drains

Code	A	B	C	D
U01	7/16-20 UNF 2B	13	21	1
G01	G 1/4	12	18	1

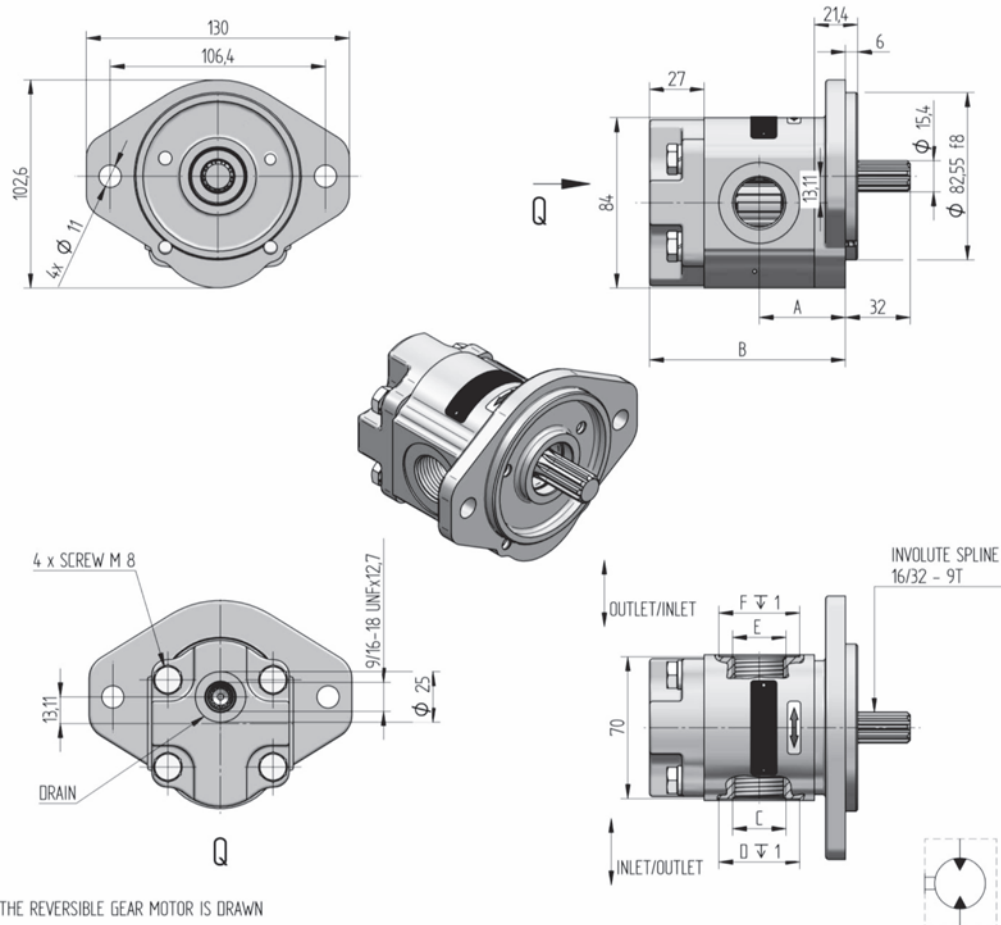
CATALOGUE SHETS OF JM SERIES BASIC DESIGNS



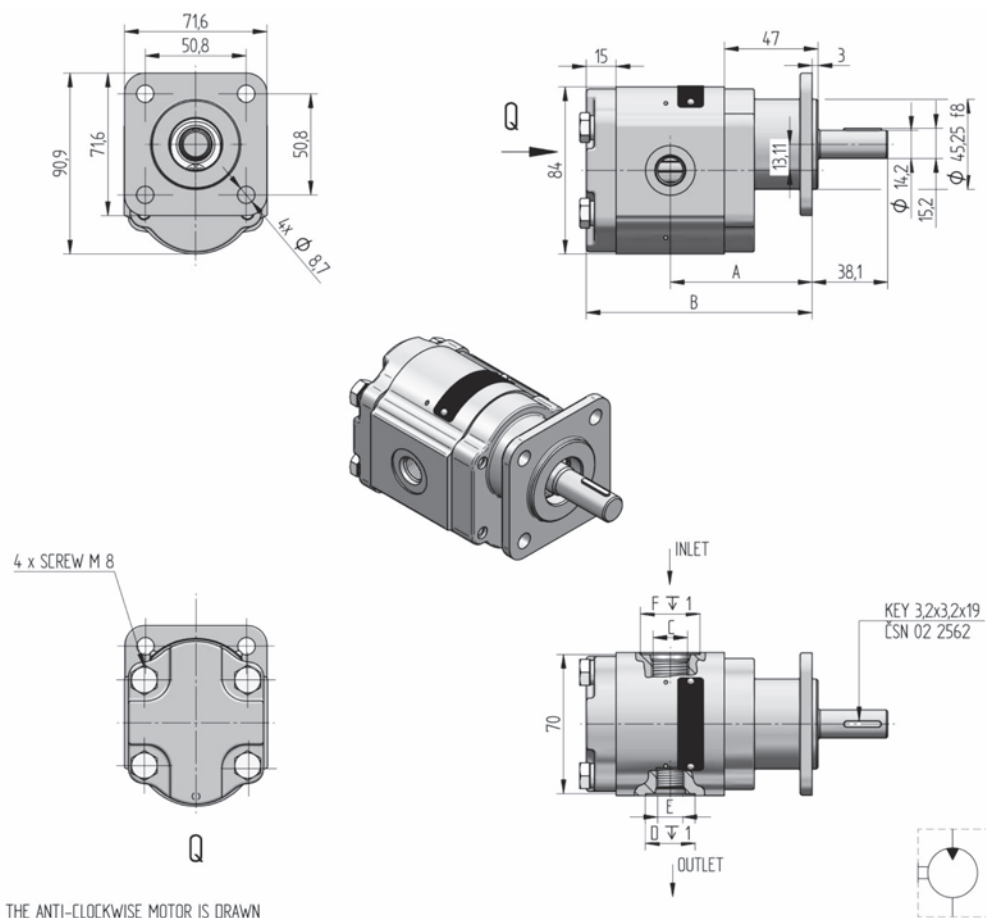
Order key	purch. code	direct. of rot.	displacement [cm ³ /1]	nom. press. [bar]	speed MIN. [min ⁻¹]	speed MAX. [min ⁻¹]	dimension							
A	B	C	D	E	F	G	H							
JM-15R-R03C05-S H06H05-N		R	15	190	500	2200	51.86	103.42	20	40	M6x13	15	35	M6x13
JM-15L-R03C05-S H06H05-N		L												
JM-12R-R03C05-S H06H05-N		R	12	220	500	2400	47.88	95.46	20	40	M6x13	15	35	M6x13
JM-12L-R03C05-S H06H05-N		L												
JM-11R-R03C05-S H06H05-N		R	11	235	500	2500	46.55	92.80	20	40	M6x13	15	35	M6x13
JM-11L-R03C05-S H06H05-N		L												
JM-10R-R03C05-S H06H05-N		R	10	250	500	2800	45.21	90.12	20	40	M6x13	15	35	M6x13
JM-10L-R03C05-S H06H05-N		L												
JM-8R-R03C05-S H06H05-N		R	8	280	500	3100	42.54	84.79	20	40	M6x13	15	35	M6x13
JM-8L-R03C05-S H06H05-N		L												
JM-7R-R03C05-S H06H05-N		R	7	280	500	3500	41.21	82.12	20	40	M6x13	15	35	M6x13
JM-7L-R03C05-S H06H05-N		L												
JM-6R-R03C05-S H06H05-N		R	6	280	500	3600	39.87	79.44	20	40	M6x13	15	35	M6x13
JM-6L-R03C05-S H06H05-N		L												
JM-5R-R03C05-S H06H05-N		R	5	280	500	4000	38.54	76.78	20	40	M6x13	15	35	M6x13
JM-5L-R03C05-S H06H05-N		L												
JM-4R-R03C05-S H06H05-N		R	4	280	500	4000	37.20	74.11	20	40	M6x13	15	35	M6x13
JM-4L-R03C05-S H06H05-N		L												
JM-3R-R03C05-S H06H05-N		R	3	280	500	4000	35.87	71.44	20	40	M6x13	15	35	M6x13
JM-3L-R03C05-S H06H05-N		L												
JM-2R-R03C05-S H06H05-N		R	2	280	500	4000	34.53	68.76	20	40	M6x13	15	35	M6x13
JM-2L-R03C05-S H06H05-N		L												



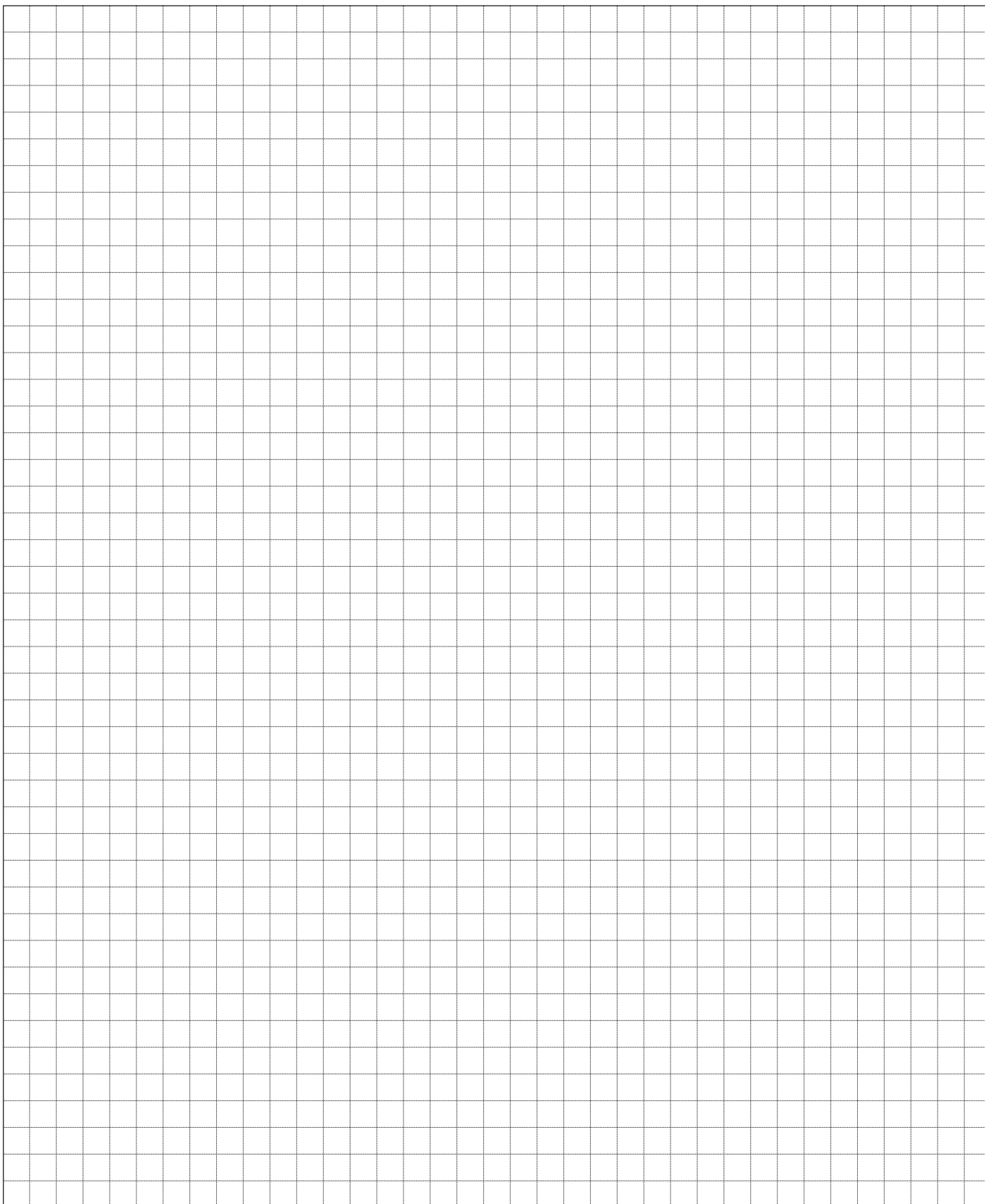
Order key	purch. code	direct. of rot.	displacement [cm³/1]	nom. press. [bar]	speed MIN. [min ⁻¹]	speed MAX. [min ⁻¹]	dimension					
							A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]
JM-15B- S02V08-SU04U04-N		B	15	190	500	2200	80,56	132,12	7/8-14UNFx17	Ø 34	7/8-14UNFx17	Ø 30
JM-12B- S02V08-SU04U04-N		B	12	220	500	2400	76,58	124,16	7/8-14UNFx17	Ø 34	7/8-14UNFx17	Ø 30
JM-11B- S02V08-SU04U04-N		B	11	235	500	2500	75,25	121,50	7/8-14UNFx17	Ø 34	7/8-14UNFx17	Ø 30
JM-10B- S02V08-SU04U04-N		B	10	250	500	2800	73,91	118,82	7/8-14UNFx17	Ø 34	7/8-14UNFx17	Ø 30
JM-8B- S02V08-SU04U04-N		B	8	280	500	3100	71,24	113,49	7/8-14UNFx17	Ø 34	7/8-14UNFx17	Ø 30
JM-7B- S02V08-SU04U04-N		B	7	280	500	3500	69,91	110,82	7/8-14UNFx17	Ø 34	7/8-14UNFx17	Ø 30
JM-6B- S02V08-SU04U04-N		B	6	280	500	3600	68,57	108,14	7/8-14UNFx17	Ø 34	7/8-14UNFx17	Ø 30
JM-5B- S02V08-SU04U04-N		B	5	280	500	4000	67,24	105,48	7/8-14UNFx17	Ø 34	7/8-14UNFx17	Ø 30
JM-4B- S02V08-SU04U04-N		B	4	280	500	4000	65,90	102,81	7/8-14UNFx17	Ø 34	7/8-14UNFx17	Ø 30
JM-3B- S02V08-SU04U04-N		B	3	280	500	4000	64,57	100,14	7/8-14UNFx17	Ø 34	7/8-14UNFx17	Ø 30
JM-2B- S02V08-SU04U04-N		B	2	280	500	4000	63,23	97,46	7/8-14UNFx17	Ø 34	7/8-14UNFx17	Ø 30

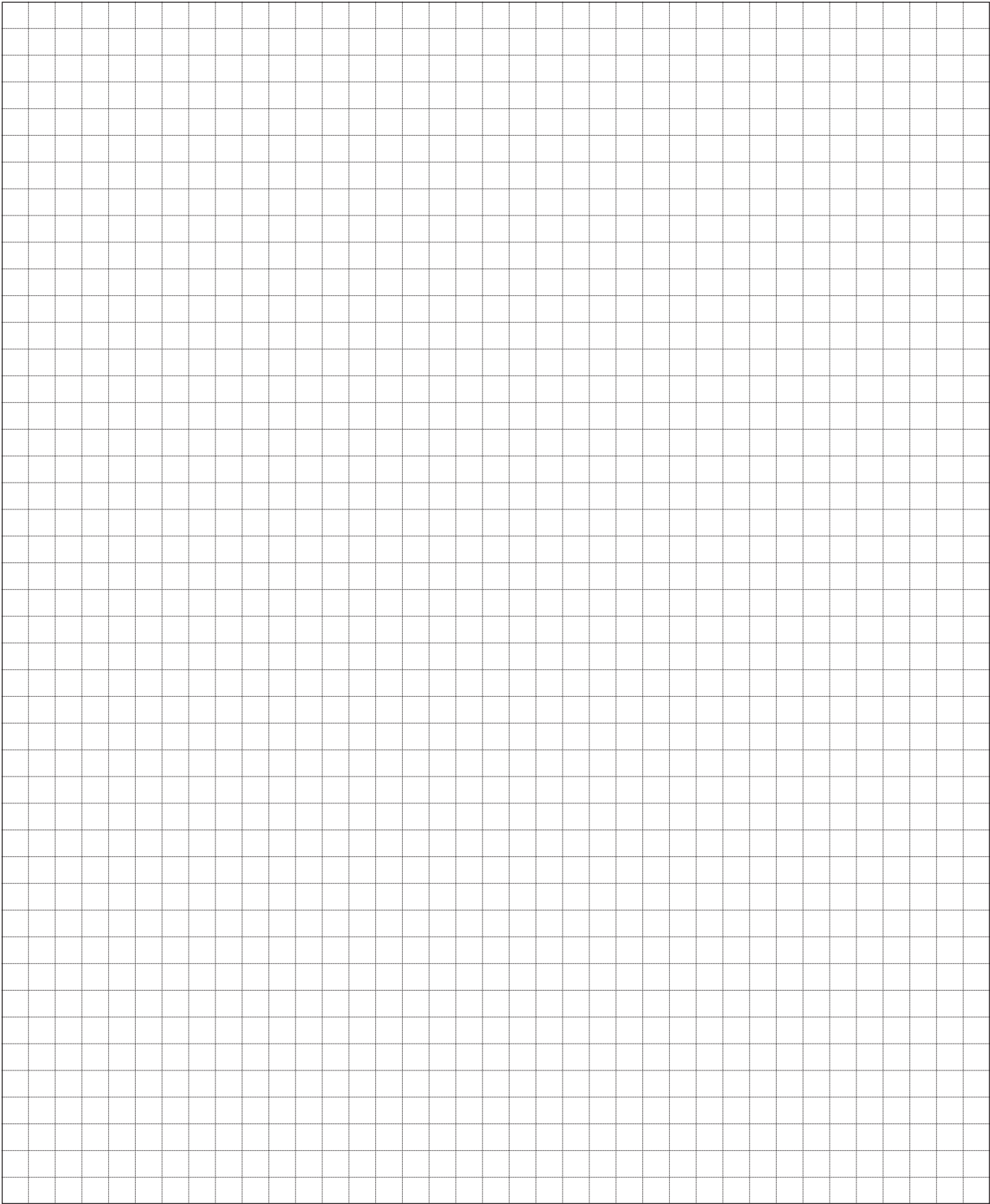


Order key	purch. code	direct. of rot.	displacement [cm ³ /1]	nom. press. [bar]	speed MIN. [min ⁻¹]	speed MAX. [min ⁻¹]	A [mm]	B [mm]	dimension			
							C [mm]	D [mm]	E [mm]	F [mm]		
JM-15B- S02D04-S G04G04-N		B	15	190	500	2200	80,56	132,12	G 3/4 x 16	Ø 39	G 3/4 x 16	Ø 39
JM-12B- S02D04-S G04G04-N		B	12	220	500	2400	76,58	124,16	G 3/4 x 16	Ø 39	G 3/4 x 16	Ø 39
JM-11B- S02D04-S G04G04-N		B	11	235	500	2500	75,25	121,50	G 3/4 x 16	Ø 39	G 3/4 x 16	Ø 39
JM-10B- S02D04-S G04G04-N		B	10	250	500	2800	73,91	118,82	G 3/4 x 16	Ø 39	G 3/4 x 16	Ø 39
JM-8B- S02D04-S G04G04-N		B	8	280	500	3100	71,24	113,49	G 3/4 x 16	Ø 39	G 3/4 x 16	Ø 39
JM-7B- S02D04-S G04G04-N		B	7	280	500	3500	69,91	110,82	G 3/4 x 16	Ø 39	G 3/4 x 16	Ø 39
JM-6B- S02D04-S G04G04-N		B	6	280	500	3600	68,57	108,14	G 3/4 x 16	Ø 39	G 3/4 x 16	Ø 39
JM-5B- S02D04-S G04G04-N		B	5	280	500	4000	67,24	105,48	G 3/4 x 16	Ø 39	G 3/4 x 16	Ø 39
JM-4B- S02D04-S G04G04-N		B	4	280	500	4000	65,90	102,81	G 3/4 x 16	Ø 39	G 3/4 x 16	Ø 39
JM-3B- S02D04-S G04G04-N		B	3	280	500	4000	64,57	100,14	G 3/4 x 16	Ø 39	G 3/4 x 16	Ø 39
JM-2B- S02D04-S G04G04-N		B	2	280	500	4000	63,23	97,46	G 3/4 x 16	Ø 39	G 3/4 x 16	Ø 39



Order key	purch. code	direct. of rot.	displacement [cm ³ /1]	nom. press. [bar]	speed MIN. [min ⁻¹]	speed MAX. [min ⁻¹]	A [mm]	B [mm]	dimension			
									C [mm]	D [mm]	E [mm]	F [mm]
JM-15R- F01V08-S U03U02-N		R	15	190	500	2200	80.56	132.12	3/4-16UNFx15	Ø 30	9/16-18UNFx13	Ø 25
JM-15L- F01V08-S U03U02-N		L										
JM-12R- F01V08-S U03U02-N		R	12	220	500	2400	76.58	124.16	3/4-16UNFx15	Ø 30	9/16-18UNFx13	Ø 25
JM-12L- F01V08-S U03U02-N		L										
JM-11R- F01V08-S U03U02-N		R	11	235	500	2500	75.25	121.50	3/4-16UNFx15	Ø 30	9/16-18UNFx13	Ø 25
JM-11L- F01V08-S U03U02-N		L										
JM-10R- F01V08-S U03U02-N		R	10	250	500	2800	73.91	118.82	3/4-16UNFx15	Ø 30	9/16-18UNFx13	Ø 25
JM-10L- F01V08-S U03U02-N		L										
JM-8R- F01V08-S U03U02-N		R	8	280	500	3100	71.24	113.49	3/4-16UNFx15	Ø 30	9/16-18UNFx13	Ø 25
JM-8L- F01V08-S U03U02-N		L										
JM-7R- F01V08-S U03U02-N		R	7	280	500	3500	69.91	110.82	3/4-16UNFx15	Ø 30	9/16-18UNFx13	Ø 25
JM-7L- F01V08-S U03U02-N		L										
JM-6R- F01V08-S U03U02-N		R	6	280	500	3600	68.57	108.14	3/4-16UNFx15	Ø 30	9/16-18UNFx13	Ø 25
JM-6L- F01V08-S U03U02-N		L										
JM-5R- F01V08-S U03U02-N		R	5	280	500	4000	67.24	105.48	3/4-16UNFx15	Ø 30	9/16-18UNFx13	Ø 25
JM-5L- F01V08-S U03U02-N		L										
JM-4R- F01V08-S U03U02-N		R	4	280	500	4000	65.90	102.81	3/4-16UNFx15	Ø 30	9/16-18UNFx13	Ø 25
JM-4L- F01V08-S U03U02-N		L										
JM-3R- F01V08-S U03U02-N		R	3	280	500	4000	64.57	100.14	3/4-16UNFx15	Ø 30	9/16-18UNFx13	Ø 25
JM-3L- F01V08-S U03U02-N		L										
JM-2R- F01V08-S U03U02-N		R	2	280	500	4000	63.23	97.46	3/4-16UNFx15	Ø 30	9/16-18UNFx13	Ø 25
JM-2L- F01V08-S U03U02-N		L										











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