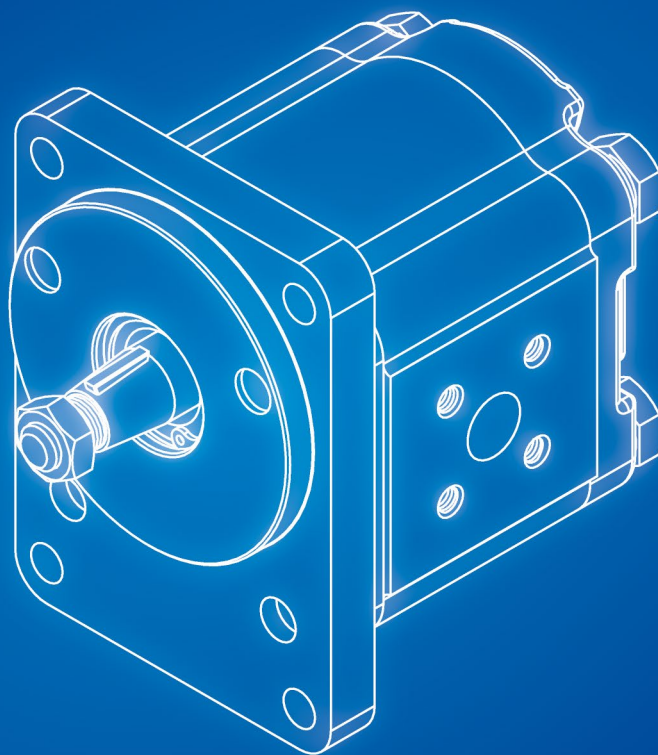




GEAR MOTORS

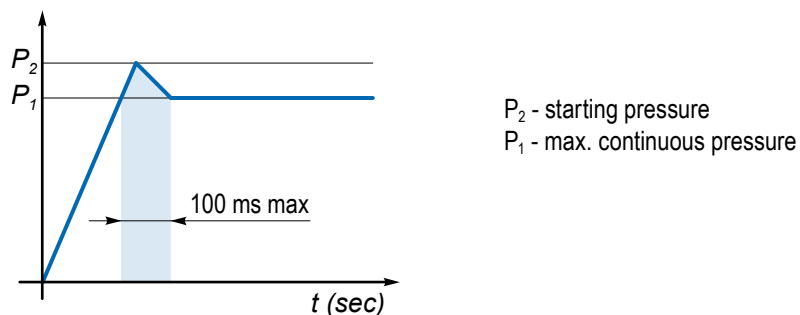
series **K**

GEAR MOTORS SERIES "K"	
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FEATURES

Gear motors "K" series are presented in the second and third groups group (from 6,3 to 71 cm³/rev) with unidirectional or reversible rotation the drive shaft. These units have range of the shafts and mounting flanges according to international standards. Gear motors have a wide application for the different machines and mechanisms , such like fan drives, working bodies mowers, air seeders etc.

DEFINITION OF PRESSURES



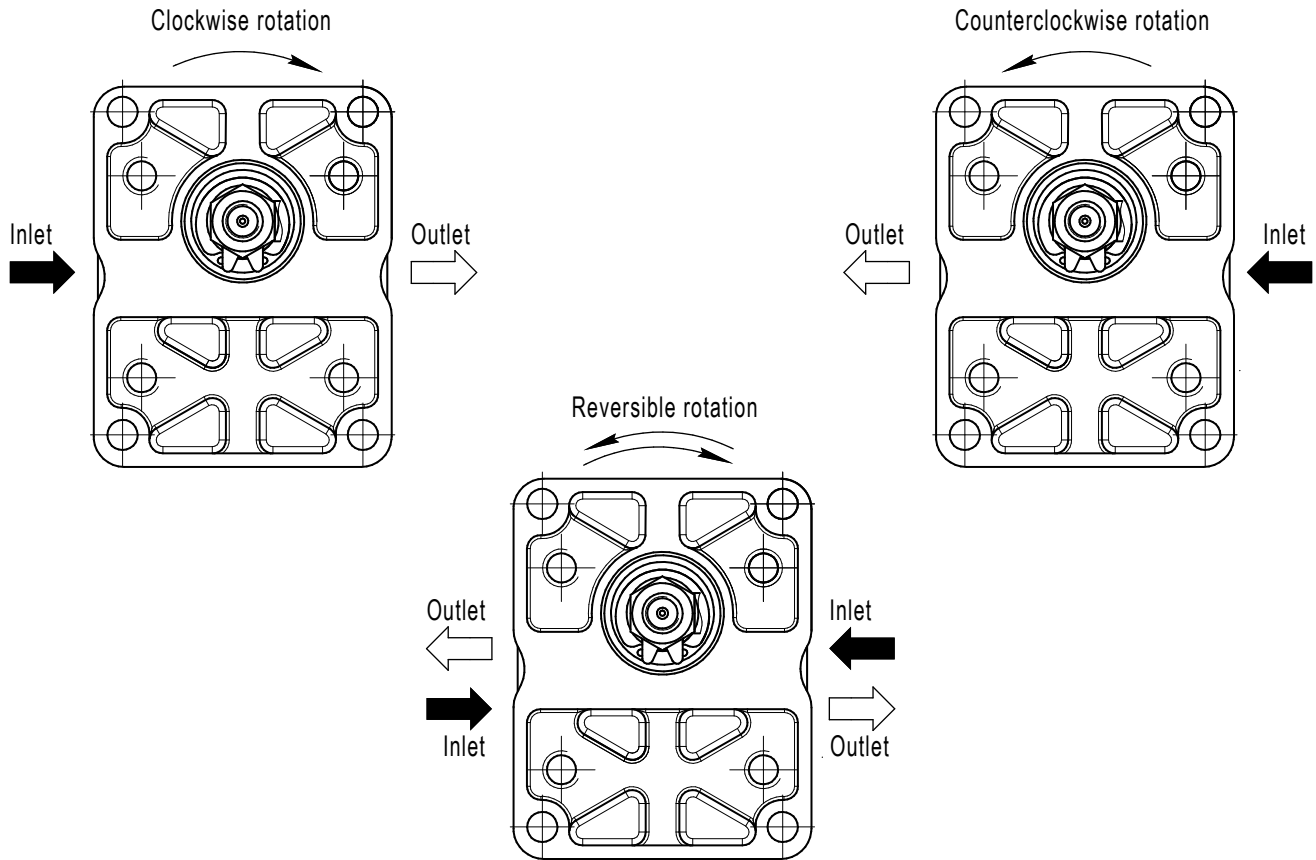
WORKING CONDITIONS

Minimum operating fluid viscosity	15 mm ² /sec
Max. starting viscosity (cold start)	1000 mm ² /sec
Fluid viscosity recommended range	17 ÷ 65 mm ² /sec
Fluid operating temperature range with NBR seals	-40 ÷ +100 °C
Fluid operating temperature range with FPM seals (Viton)	-20 ÷ +170 °C
Hydraulic fluid	mineral oil

FILTRATION INDEX RECOMMENDED

Maximum continuous pressure	>200 bar	<200 bar
Contamination class ISO 4406	18/15	19/16
Contamination class NAS 1638	9	10
Achieved with filter $\beta_x=75$	15µm	25µm

DEFINITION OF MOTOR SHAFT ROTATIONAL DIRECTION

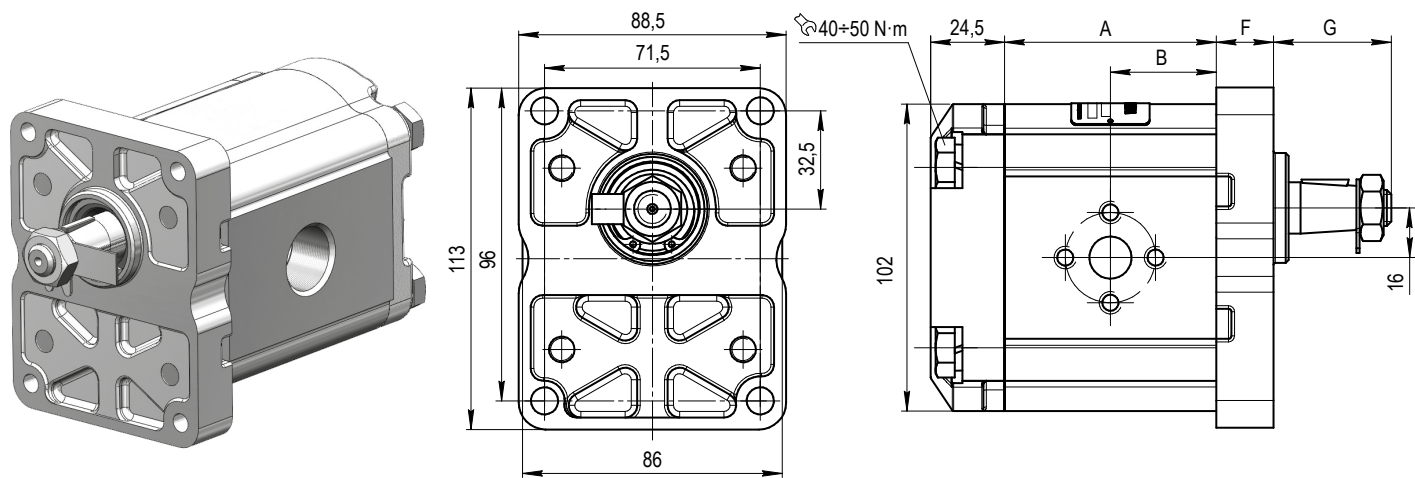


FORMULAS

Input flow	$Q = \frac{q \cdot n}{1000 \cdot \eta_v} \quad [\text{l/min}]$	q displacement (cm^3/rev) n speed (min^{-1})
Output torque	$M = \frac{q \cdot \Delta p \cdot \eta_m}{20 \cdot \pi} \quad [\text{N}\cdot\text{m}]$	η_v volumetric efficiency (0,94 min) η_m mechanical efficiency (0,85min)
Output power	$P = \frac{Q \cdot \Delta p \cdot \eta_t}{600} \quad [\text{kW}]$	$\Delta p = P_{\text{out}} - P_{\text{in}}$ system pressure (bar) $\eta_t = \eta_v \cdot \eta_m$ overall efficiency

TECHNICAL DATA AND ASSEMBLING DIMENSIONS

Type		GM2K6	GM2K8	GM2K10	GM2K11	GM2K12	GM2K14	GM2K15	GM2K16	GM2K17	GM2K19	GM2K20	GM2K23	GM2K25
Displacement	cm ³ /rev	6,3	8,2	10,0	11,3	12,5	14,0	15,0	16,0	17,0	19,0	20,0	22,5	24,8
Dimension A	mm	50,2	53,2	56,0	58,0	59,8	62,1	63,7	65,2	66,9	69,9	71,4	75,3	78,8
Dimension B	mm	25,1	26,6	28,0	29,0	29,9	31,05	31,85	32,6	33,45	34,95	35,7	37,65	39,4
Max. continuous pressure, P ₁	bar	250									220	210	190	170
Starting pressure, P ₂	bar	280									250	230	210	190
Min. speed at P ₁ ≤100 bar, n _{min}	min ⁻¹	700					600				500			
Max. speed, n _{max}	min ⁻¹	4000	3600	3500		3400		3200			3000		2800	
Output torque at P ₁	N·m	20,8	27,1	33,5	37,8	41,8	46,9	50,8	54,1	57,5	56,6	57,5	58,6	57,7
*Weight	kg	2,4	2,5	2,6	2,7	2,7	2,9	2,9	3,0	3,0	3,1	3,1	3,4	3,6

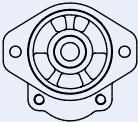
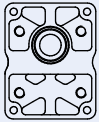
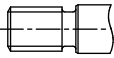
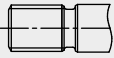
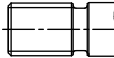
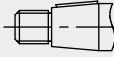
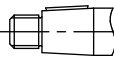
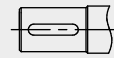
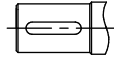
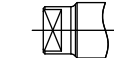
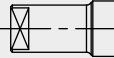
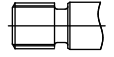


Ordering example
GM2K10R-G262B

Dimension G = see section "Drive shafts"
Dimension F = see section "Mounting flanges"

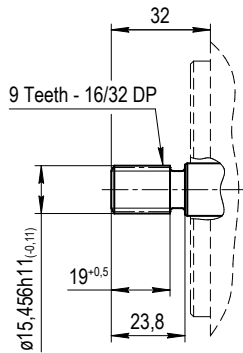
*Weight shown are for motors with aluminum covers. Weight for motors with cast iron covers should be refined

COMBINATION TYPES OF FLANGES & SHAFTS

GM2K	 SAE "A" 2 BOLTS	 EUROPEAN	 GERMAN Ø80	 GERMAN 2 BOLTS Ø50	 GERMAN 2 BOLTS Ø52
 SAE "A" SPLINED (9 TEETH)	B2 31 B2 32				
 SAE "A" SPLINED (10 TEETH)	B3 31 B3 32				
 SAE "A" SPLINED (11 TEETH)	B4 31 B4 32				
 GERMAN TAPERED 1:5			F2 81	F2 91 F2 92	
 EUROPEAN TAPERED 1:8		G2 61 G2 62			
 SAE "A" STRAIGHT Ø15,87	H2 31 H2 32	H2 61 H2 62			
 SAE "A" STRAIGHT Ø19,05	H8 31 H8 32				
 TANG DRIVE					K3 93 K3 94
 TANG DRIVE				K4 91 K4 92	
 DIN 5482 SPLINED (9 TEETH)			I2 61 I2 62	I2 81	I2 91 I2 92

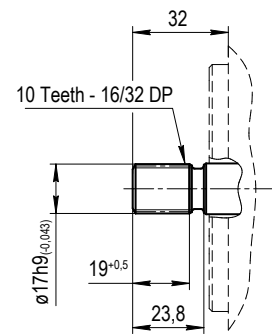
Present combination types of mounting flanges and shafts are used to serial production. The other combination and date of production, before ordering clarify with the manufacturer.

Max. torque 100 N·m



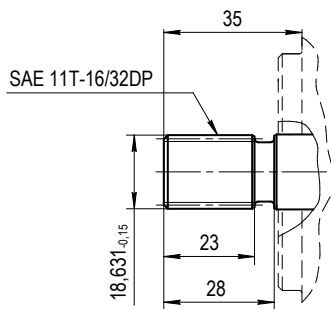
B2 SAE A SPLINED (9 TEETH)

Max. torque 130 N·m



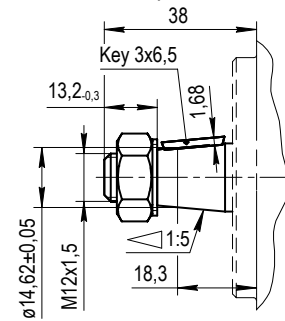
B3 SAE A SPLINED (10 TEETH)

Max. torque 170 N·m



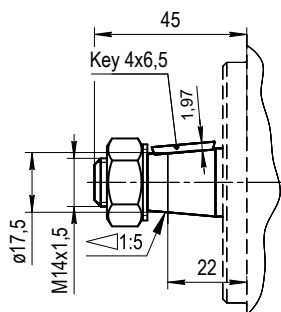
B4 SAE A SPLINED (11 TEETH)

Max. torque 140 N·m



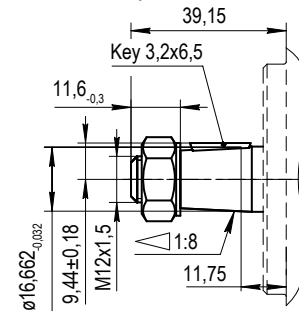
F2 GERMAN TAPERED 1:5

Max. torque 140 N·m



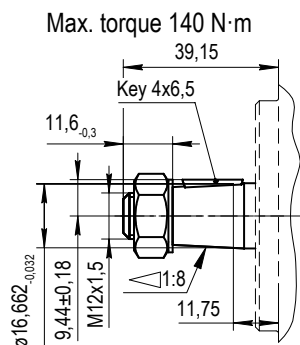
F6 GERMAN TAPERED 1:5

Max. torque 140 N·m

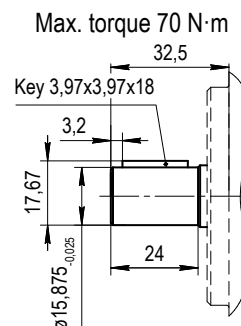


G2 EUROPEAN TAPERED 1:8

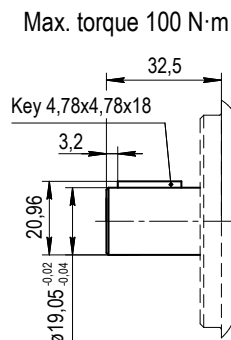
DRIVE SHAFTS



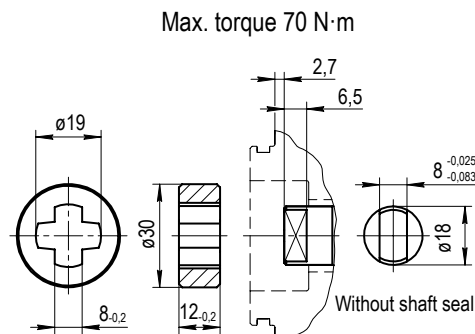
G6 EUROPEAN TAPERED 1:8



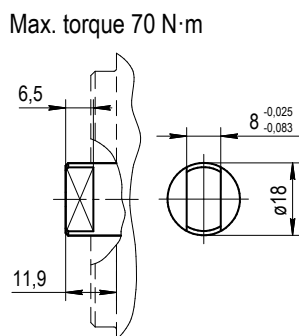
H2 SAE A STRAIGHT Ø15,87



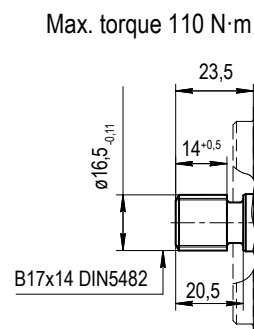
H8 SAE A STRAIGHT Ø19,05



K3 TANG DRIVE

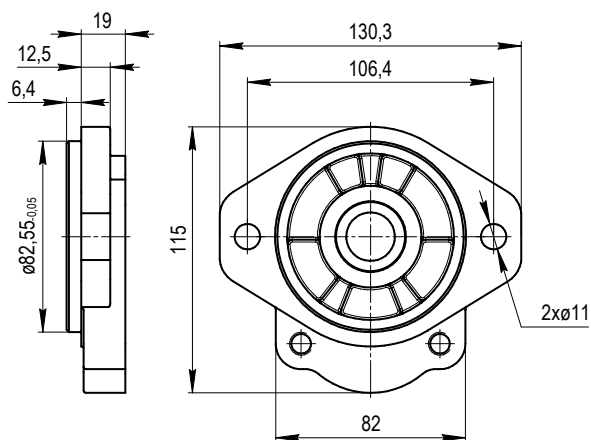


K4 TANG DRIVE



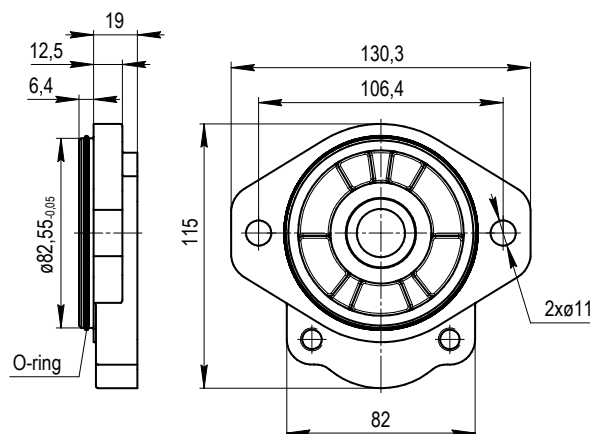
I2 DIN 5482 SPLINED (9 TEETH)

MOUNTING FLANGES



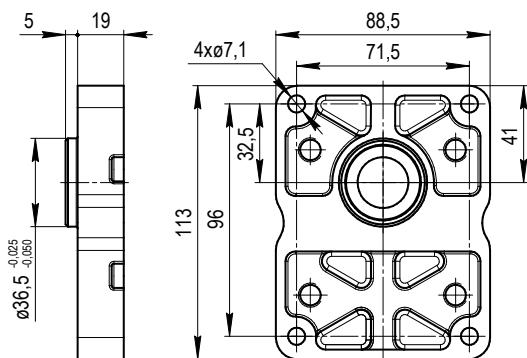
31

SAE A 2 BOLTS



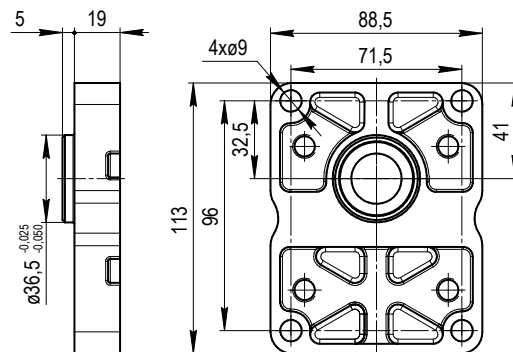
32

SAE A 2 BOLTS (WITH O-RING)



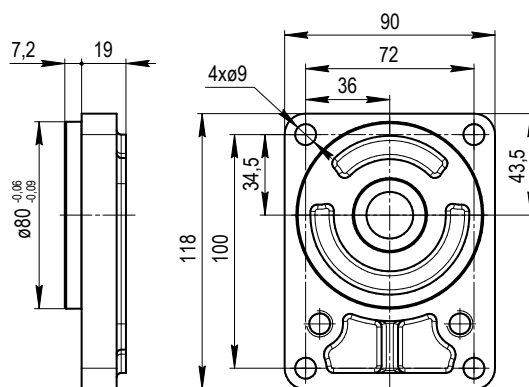
61

EUROPEAN ($\varnothing 7,1$)



62

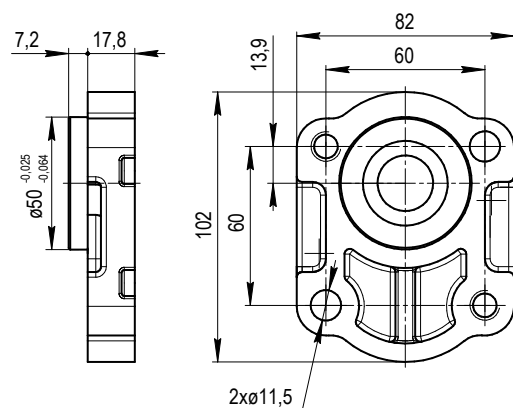
EUROPEAN ($\varnothing 9$)



81

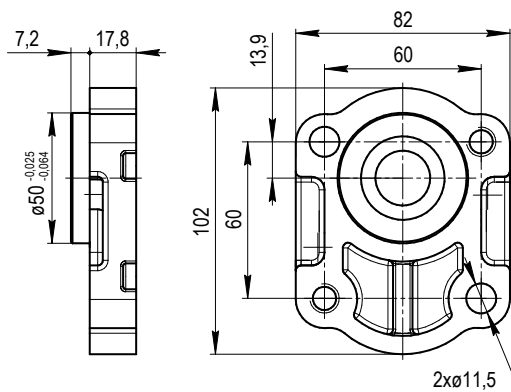
GERMAN $\varnothing 80$

MOUNTING FLANGES



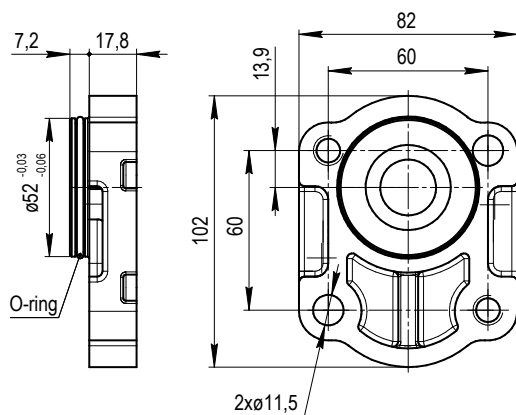
91

GERMAN 2 BOLTS Ø50



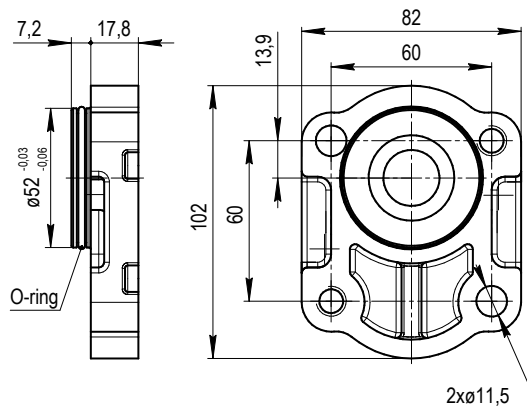
92

GERMAN 2 BOLTS Ø50



93

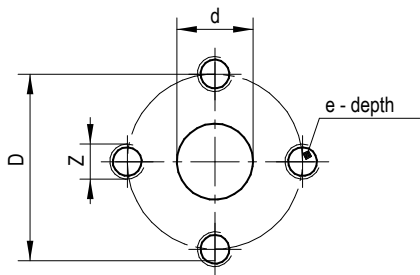
GERMAN 2 BOLTS Ø52



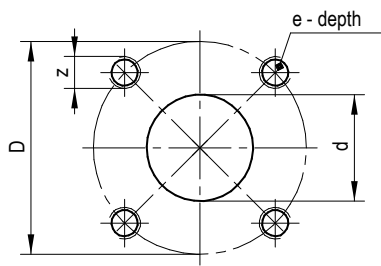
94

GERMAN 2 BOLTS Ø52

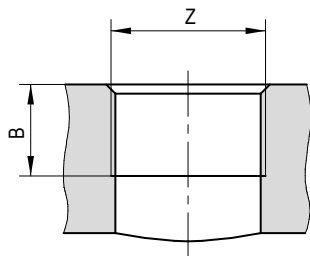
PORTS



B EUROPEAN FLANGE



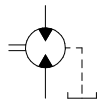
C GERMAN FLANGE



E METRIC THREADED

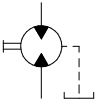
	Type	Inlet				Outlet			
		d	D	Z	e	d	D	Z	e
	GM2K6÷8	13	30	M6	13	13	30	M6	13
	GM2K10÷25	14				19	40	M8	

For reversible motors

	Type	Inlet				Outlet			
		d	D	Z	e	d	D	Z	e
	GM2K6÷12	13	30	M6	13	13	30	M6	13
	GM2K14÷25	19	40	M8		19	40	M8	

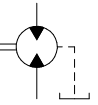
	Type	Inlet				Outlet			
		d	D	z	e	d	D	z	e
	GM2K6÷25	15	35	M6	13	20	40	M6	13

For reversible motors

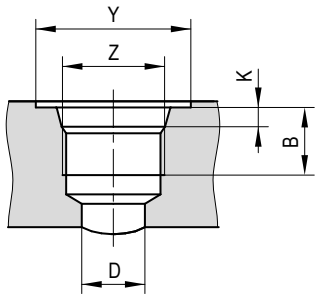
	Type	Inlet				Outlet			
		d	D	z	e	d	D	z	e
	GM2K6÷12	15	35	M6	13	15	35	M6	13
	GM2K14÷25	20	40			20	40		

	Type	Inlet		Outlet	
		Z	B	Z	B
	GM2K6÷8	M14x1,5	16	M18x1,5	16
	GM2K10÷12	M18x1,5		M22x1,5	
	GM2K14÷25			M27x2	

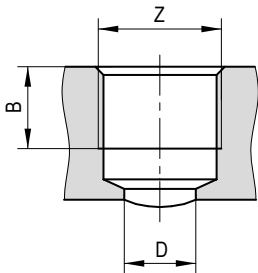
For reversible motors

	Type	Inlet		Outlet	
		Z	B	Z	B
	GM2K6÷12	M22x1,5	16	M22x1,5	16
	GM2K14÷25	M27x2		M27x2	

PORTS



F SAE THREADED (ODT)



G GAS THREADED (BSPP)

	Type	Inlet					Outlet				
		Z	B	K	D	Y	Z	B	K	D	Y
	GM2K6÷8	7/8-14 UNF (SAE #10)	14	2,5	13	34	7/8-14 UNF (SAE #10)	14	2,5	13	34
	GM2K10÷25						1-1/16-12 UN (SAE #12)				

For reversible motors

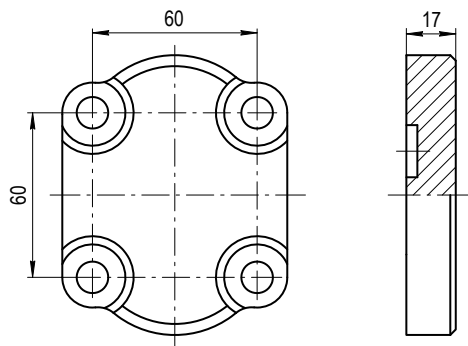
	Type	Inlet					Outlet				
		Z	B	K	D	Y	Z	B	K	D	Y
	GM2K6÷12	7/8-14 UNF (SAE #10)	14	2,5	13	34	7/8-14 UNF (SAE #10)	14	2,5	13	34
	GM2K14÷25	1-1/16-12 UN (SAE #12)	16	3,3	20	41	1-1/16-12 UN (SAE #12)	16	3,3	20	41

	Type	Inlet			Outlet		
		Z	B	D	Z	B	D
	GM2K6÷8	1/2" GAS	16	13	1/2" GAS	16	13
	GM2K10÷25				3/4" GAS	19	20

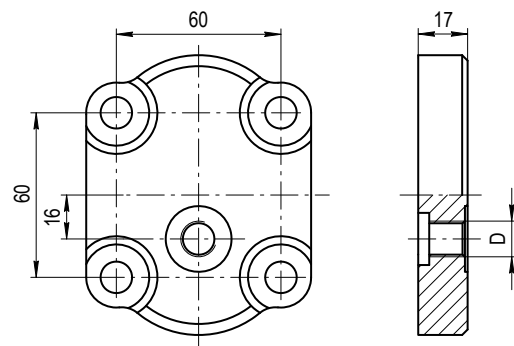
For reversible motors

	Type	Inlet			Outlet		
		Z	B	D	Z	B	D
	GM2K6÷12	1/2" GAS	16	13	1/2" GAS	16	13
	GM2K14÷25	3/4" GAS	19	20	3/4" GAS	19	20

REAR COVERS

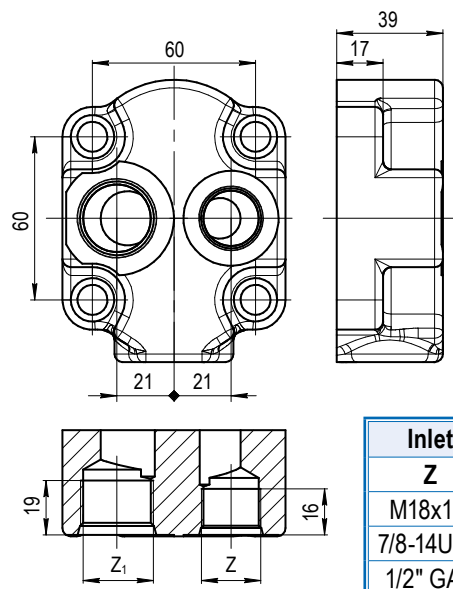


For unidirectional motors



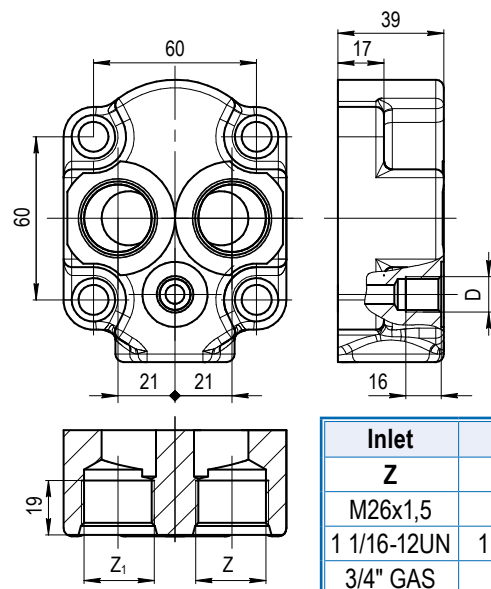
For reversible motors

STANDARD REAR COVERS



For unidirectional motors

Inlet	Outlet
Z	Z ₁
M18x1,5	M26x1,5
7/8-14UNF	1 1/16-12UN
1/2" GAS	3/4" GAS



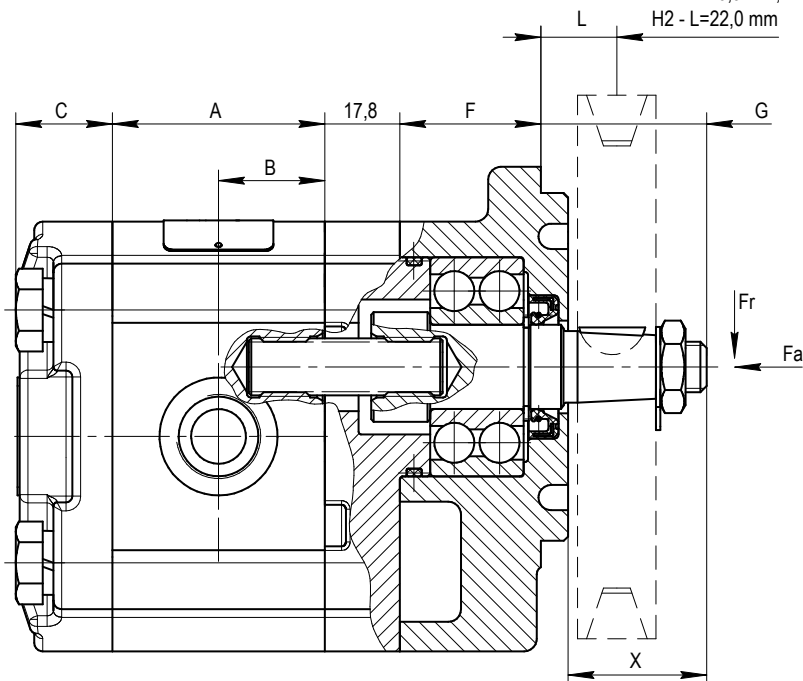
For reversible motors

Inlet	Outlet	Drain
Z	Z ₁	D
M26x1,5	M26x1,5	M12x1,5
1 1/16-12UN	1 1/16-12UN	9/16-20UNF
3/4" GAS	3/4" GAS	G1/4

1 REAR COVER WITH THREADED PORTS

VERSION WITH OUTRIGGER BEARING

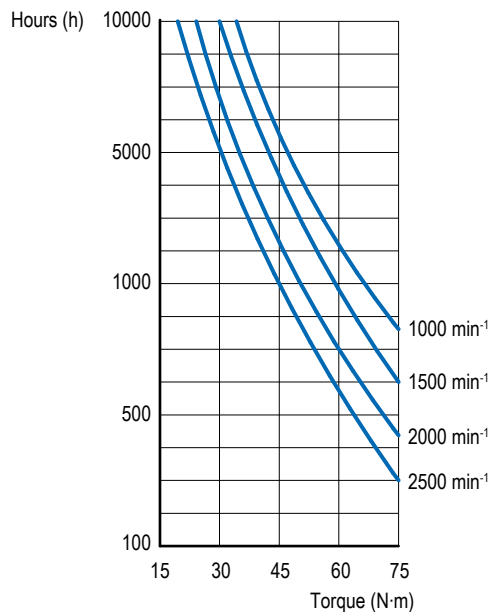
For drive shaft:
G2 - L=15,4 mm;
F2 - L=16,9 mm;
H2 - L=22,0 mm



Ordering example
GM2K12R-F2C9F

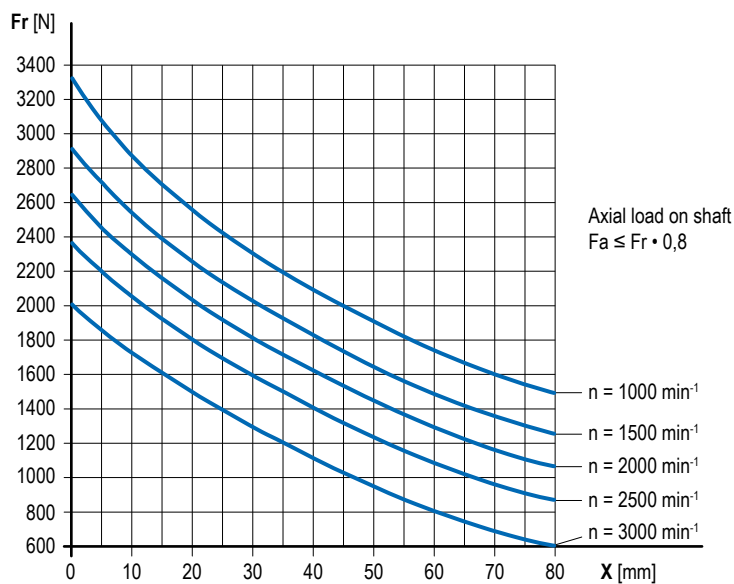
Service life under the following conditions:

L = 18 mm; pulley diameter = 90 mm.

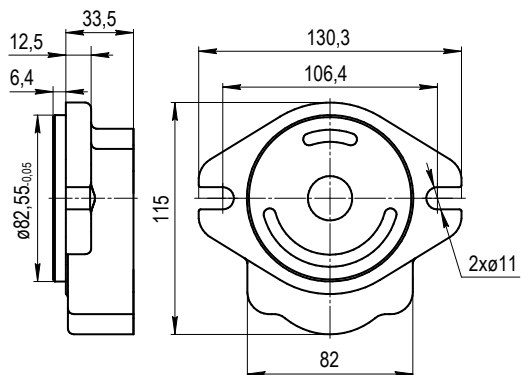


Dimension A and B = see section "Technical data"
Dimension G = see section "Drive shafts"
Dimension F = see section "Mounting flanges with bearing support"
Dimension C = see section "Rear covers"

Working characteristic of outrigger bearing

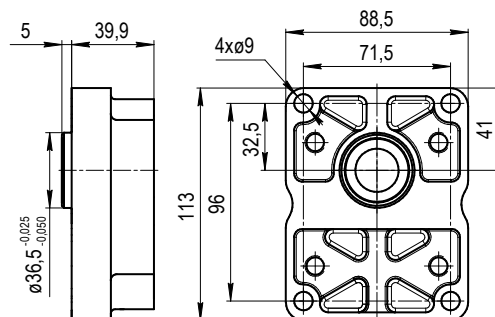


MOUNTING FLANGES WITH BEARING SUPPORT



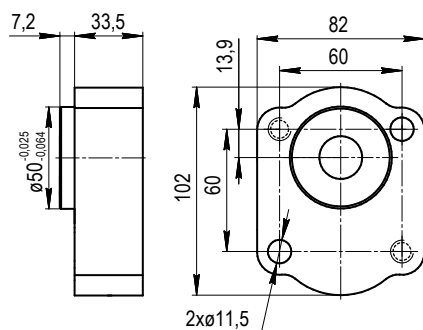
C3

SAE A



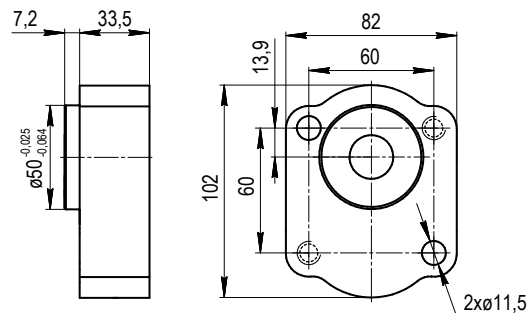
C6

EUROPEAN



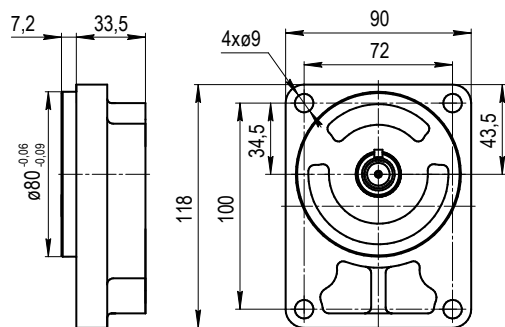
C7

GERMAN Ø50



C8

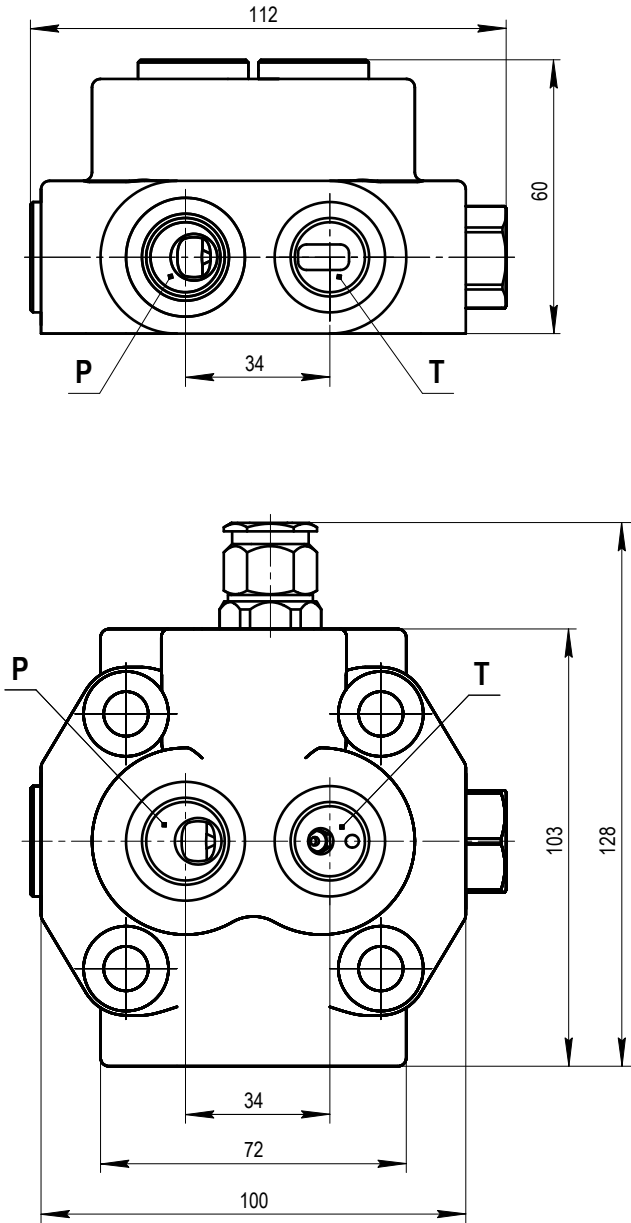
GERMAN Ø50



C9

GERMAN Ø80

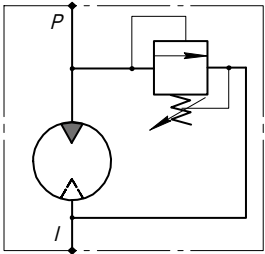
VERSION WITH VALVE IN THE REAR COVER



P - pressure line
T - drain

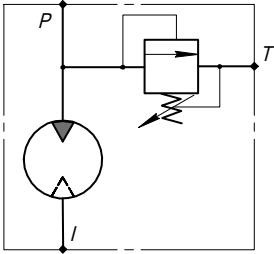
CODE	P	T
E	M20x1,5	M18x1,5
F	7/8"-14 UNF	3/4"-16 UNF
G	1/2" GAS	3/8" GAS

Pressure relief setting	bar	20÷280
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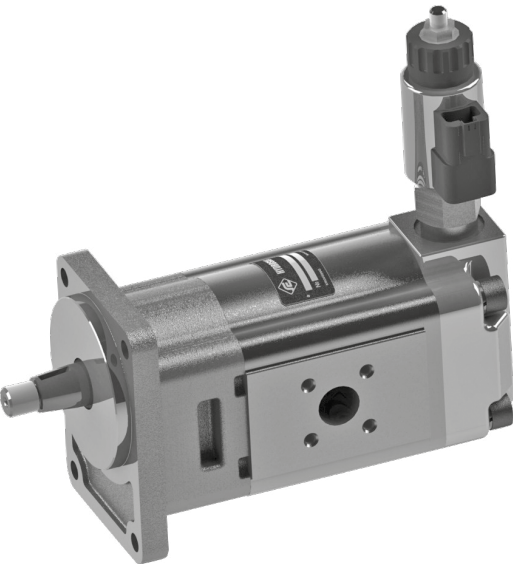
Return-to-outlet line relief valve

VR

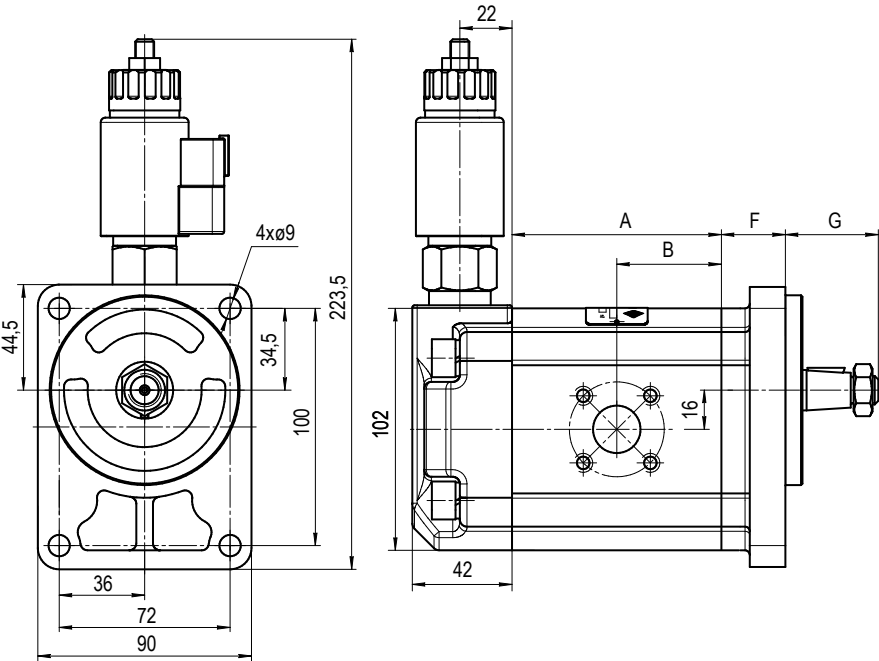


Return-to-tank relief valve

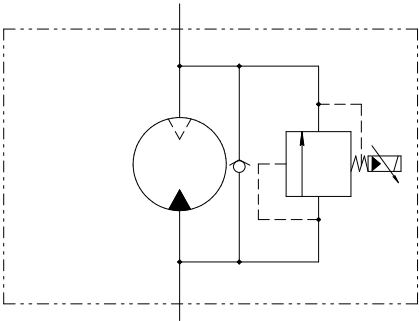
VR1



Ordering example
GM2K16R-F2C9C-VE12-AA



Dimensions A and B = see section "Technical data"
Dimension G = see section "Drive shafts"
Dimension F = see section "Mounting flanges"

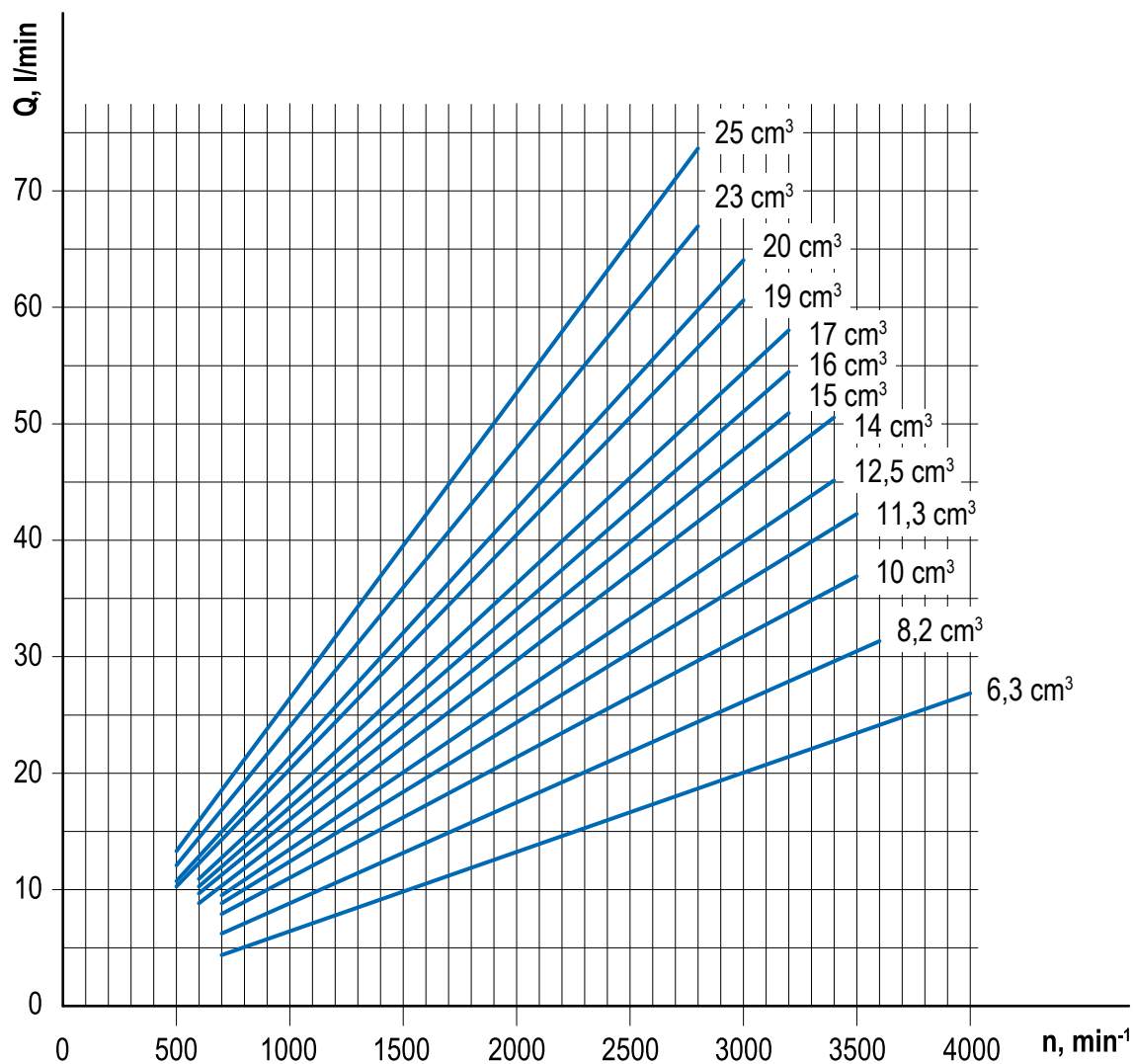


Power	1.4 A (12 VDC) 0.7 A (24 VDC)
PWM frequency	200 Hz
Coil resistance	7.2 Ω (12 VDC) 28.8 Ω (24 VDC)
Plug type	DIN 43650 Deutsch Lead wires AMP Jr

VE	ELECTRO-PROPORTIONAL RELIEF VALVE
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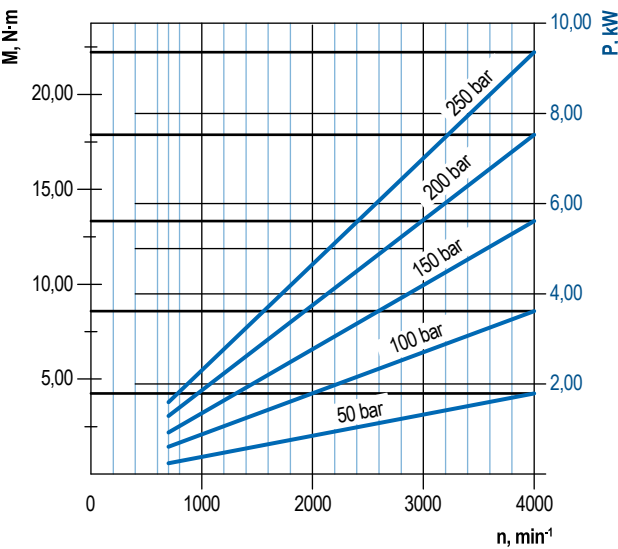
PERFORMANCE CURVES

Performance curves carried out with oil viscosity at 16 mm²/sec, oil temperature at 60°C and max. continuous pressures for each type.

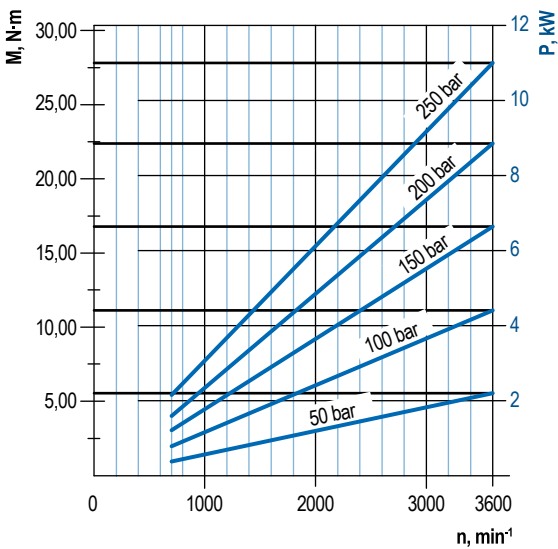


PERFORMANCE CURVES

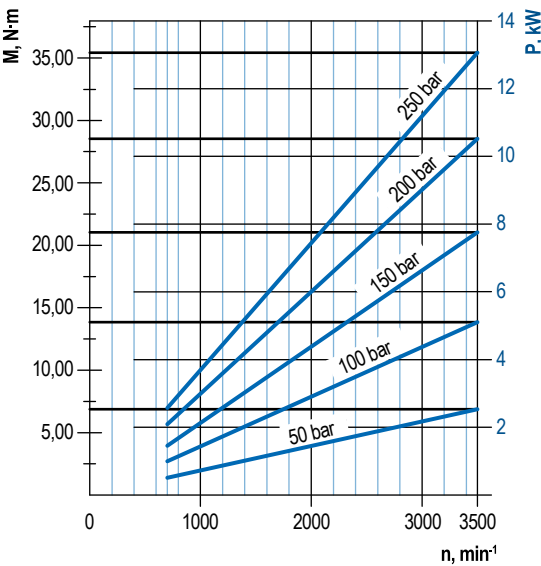
Performance curves carried out with oil viscosity at 16 mm²/sec and oil temperature at 60°C.



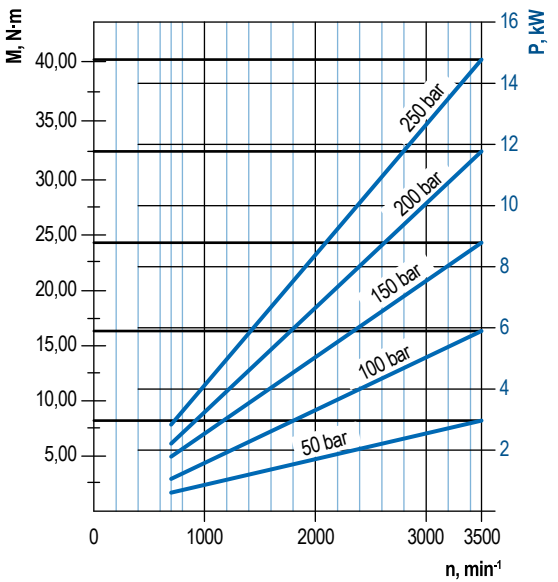
GM2K6



GM2K8



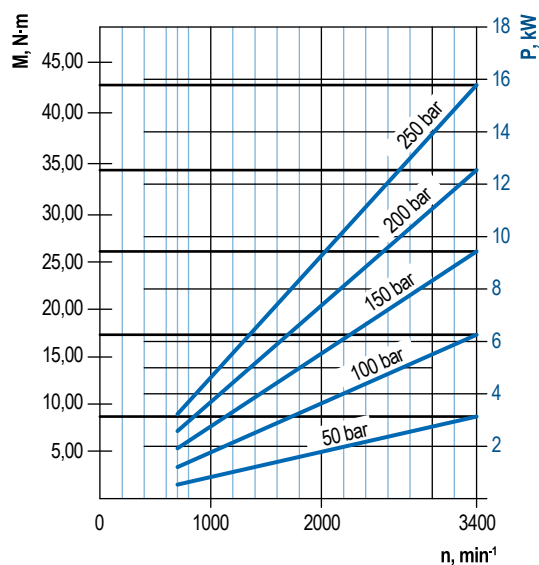
GM2K10



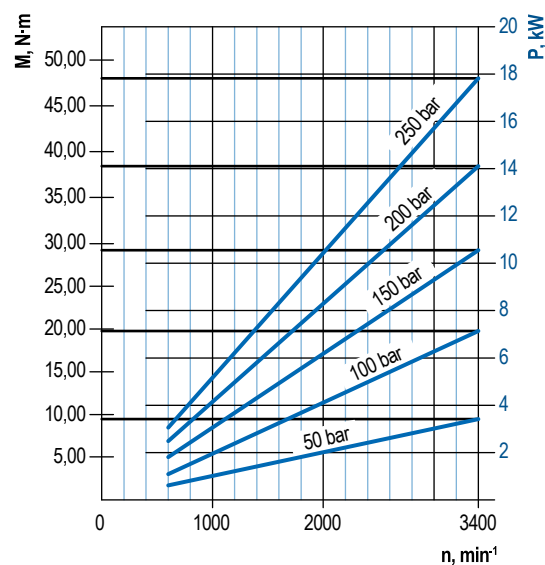
GM2K11

PERFORMANCE CURVES

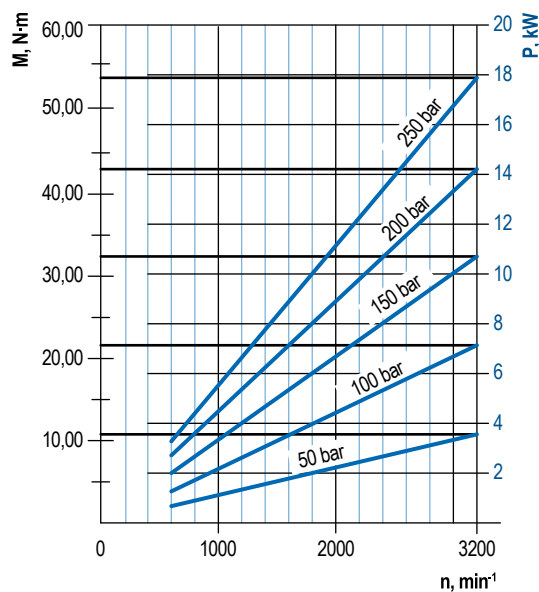
Performance curves carried out with oil viscosity at 16 mm²/sec and oil temperature at 60°C.



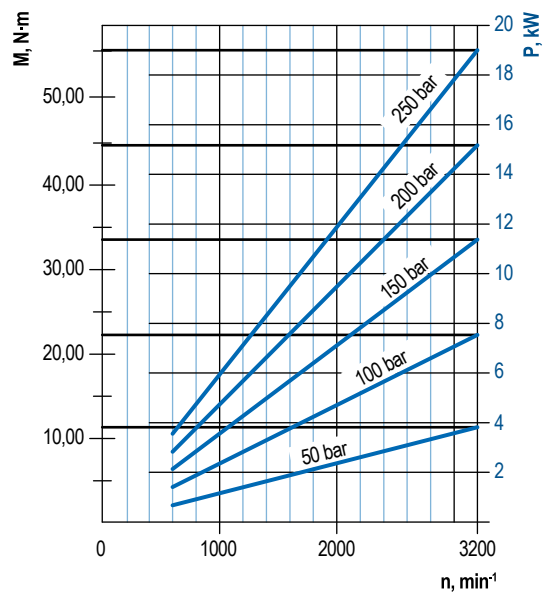
GM2K12



GM2K14



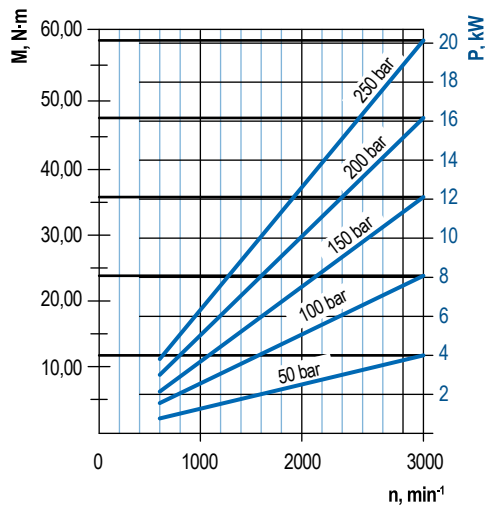
GM2K15



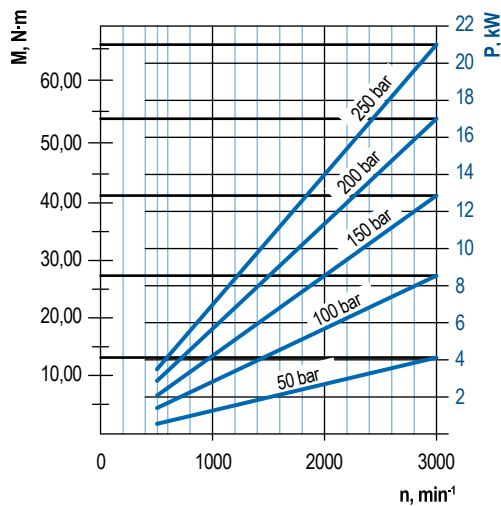
GM2K16

PERFORMANCE CURVES

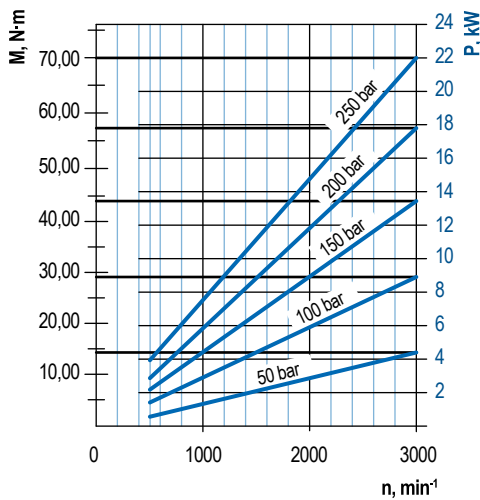
Performance curves carried out with oil viscosity at 16 mm²/sec and oil temperature at 60°C.



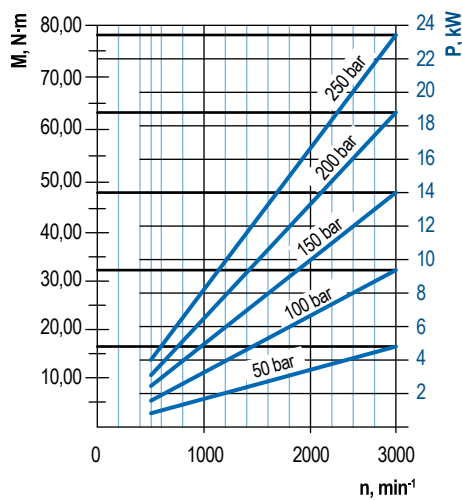
GM2K17



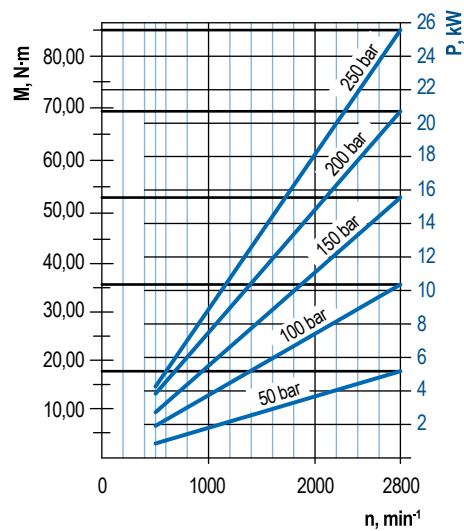
GM2K19



GM2K20



GM2K23



GM2K25

ORDERING INFORMATION

GEAR MOTOR	GM	2	K	16	R	B2	31	F				VE	12	AA	
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GEAR MOTOR	GM
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GROUP	2
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SERIES	K
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DISPLACEMENT	CODE
6,3 cm³/rev	6
8,2 cm³/rev	8
10 cm³/rev	10
11,3 cm³/rev	11
12,5 cm³/rev	12
14 cm³/rev	14
15 cm³/rev	15
16 cm³/rev	16
17 cm³/rev	17
19 cm³/rev	19
20 cm³/rev	20
22,5 cm³/rev	23
24,8 cm³/rev	25

ROTATION	CODE
Clockwise	R
Counterclockwise	L
Reversible	B

DRIVE SHAFTS	CODE
SAE A SPLINED (9 TEETH)	B2
SAE A SPLINED (10 TEETH)	B3
SAE A SPLINED (11 TEETH)	B4
GERMAN TAPERED 1:5	F2
EUROPEAN TAPERED 1:8	G2
SAE A STRAIGHT Ø15,87	H2
SAE A STRAIGHT Ø19,05	H8
TANG DRIVE FOR ELECTRIC MOTORS	K3
TANG DRIVE	K4
DIN 5482 SPLINED (9 TEETH)	I2

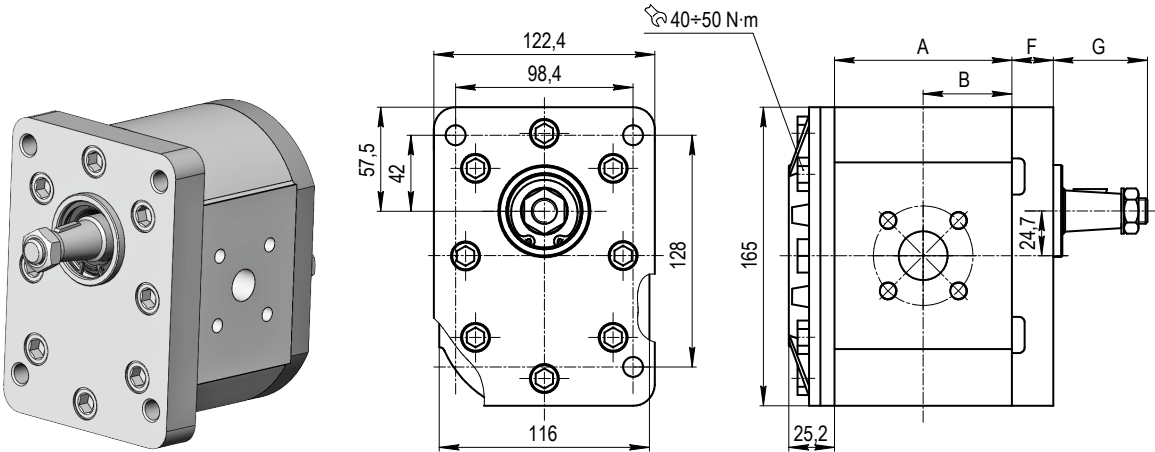
MOUNTING FLANGES	CODE
SAE A 2 BOLTS	31
SAE A 2 BOLTS (WITH O-RING)	32
EUROPEAN (Ø7,1)	61
EUROPEAN (Ø9)	62
GERMAN Ø80	81
GERMAN 2 BOLTS Ø50	91-92
GERMAN 2 BOLTS Ø52	93-94

*SPECIAL FEATURES	
CONNECTOR ELECTRICAL	CODE
DIN 43650	AA
Deutsch	DE
Lead wires	FL
AMP Jr	AJ
ELECTRICAL SUPPLY	CODE
1.4 A (12 VDC)	12
0.7 A (24 VDC)	24
TYPE OF VALVE	CODE
Valve of proportional pressure relieving	VE
Return-to-suction relief valve	VR
Return-to-tank relief valve	VR1
MATERIAL OF COVERS	CODE
Aluminium	
Cast iron	F
SEAL MATERIAL	CODE
NBR	
FPM (Viton)	V
PORTS POSITION	CODE
Side Inlet - side Outlet	
Back Inlet - back Outlet	1
PORTS	CODE
EUROPEAN FLANGE	B
GERMAN FLANGE	C
METRIC THREADED	E
SAE THREADED (ODT)	F
GAS THREADED (BSPP)	G
MOUNTING FLANGES WITH BEARING SUPPORT	CODE
SAE A	C3
EUROPEAN	C6
GERMAN Ø50	C7
GERMAN Ø50	C8
GERMAN Ø80	C9

*Special features assigned if necessary

TECHNICAL DATA AND ASSEMBLING DIMENSIONS

Type		GM3K20	GM3K23	GM3K25	GM3K28	GM3K32	GM3K36	GM3K40	GM3K45	GM3K50	GM3K56	GM3K63	GM3K71
Displacement	cm³/rev	20	23	25	28	32	36	40	45	50	56	63	71
Dimension A	mm	78,5	80,5	81,8	83,8	86,4	89	91,7	95,0	99	102	106,4	111,6
Dimension B	mm	39,25	40,25	40,9	41,9	43,2	44,5	45,85	47,5	49,5	51	53,2	55,8
Max. continuous pressure, P ₁	bar	250				240			230	210	200	190	170
Starting pressure, P ₂	bar	270				260			250	230	220	210	190
Min. speed at P ₁ ≤100 bar, n _{min}	min ⁻¹	700								600			
Max. speed, n _{max}	min ⁻¹	3000								2500			
Output torque at P ₁	N·m	70	80,6	87,6	98,1	107,6	121,1	134,5	145	147,1	156,9	167,7	169,1
*Weight	kg	6,9	7,0	7,1	7,2	7,3	7,5	7,6	7,8	8,1	8,3	8,5	8,8

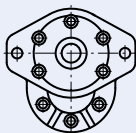
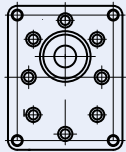
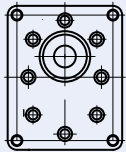
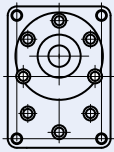
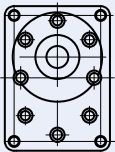
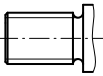
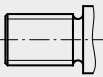
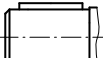
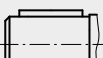


Ordering example
GM3K20R-B563B

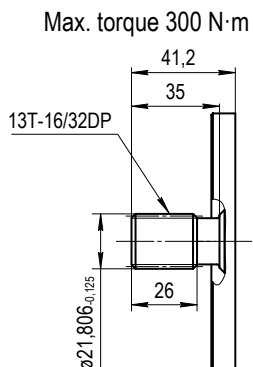
Dimension G = see section "Drive shafts"
Dimension F = see section "Mounting flanges"

*Weight shown are for motors with aluminum covers. Weight for motors with cast iron covers should be refined

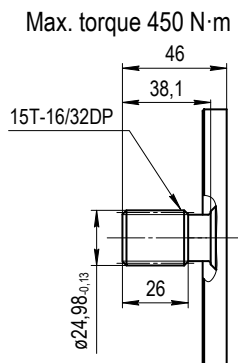
COMBINATION TYPES OF FLANGES & SHAFTS

GM3K	 SAE B 2 BOLTS	 EUROPEAN Ø50,8	 EUROPEAN Ø60,3	 GERMAN Ø105	 GERMAN Ø100
 SAE B SPLINED (13 TEETH)	B5 33				
 SAE BB SPLINED (15 TEETH)	B6 33				
 GERMAN TAPERED 1:5 (M16)				F4 88	F4 89
 GERMAN TAPERED 1:5 (M14)					F6 89
 EUROPEAN TAPERED 1:8 (M14)		G4 63	G4 64		
 EUROPEAN TAPERED 1:8 (M16)		G5 63	G5 64		
 SAE B STRAIGHT Ø22,2	H3 33				
 SAE BB STRAIGHT Ø25,4	H4 33				

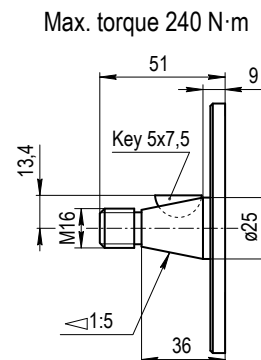
Present combination types of mounting flanges and shafts are used to serial production. The other combination and date of production, before ordering clarify with the manufacturer.



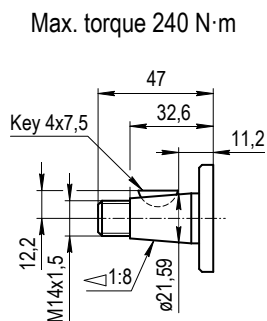
B5 SAE B SPLINED (13 TEETH)



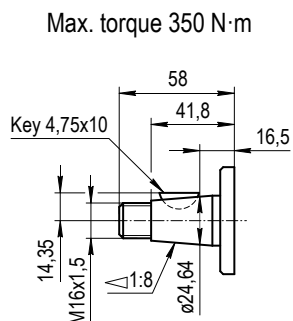
B6 SAE BB SPLINED (15 TEETH)



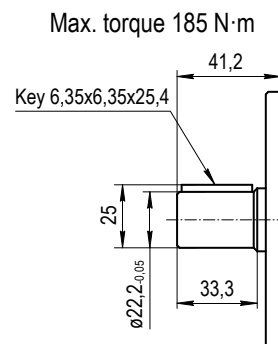
F4 GERMAN TAPERED 1:5



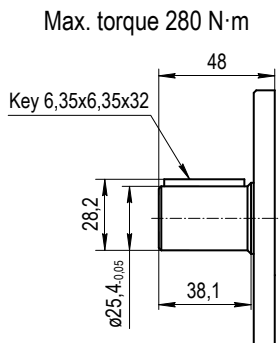
G4 EUROPEAN TAPERED 1:8



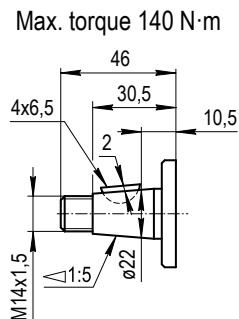
G5 EUROPEAN TAPERED 1:8



H3 SAE B STRAIGHT Ø22,2

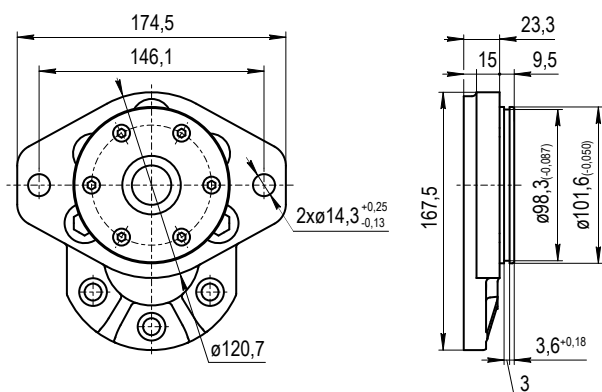


H4 SAE BB STRAIGHT Ø25,4

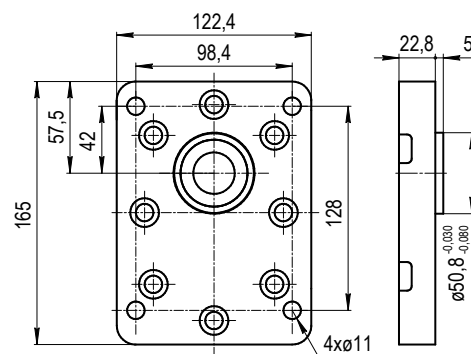


F6 GERMAN TAPERED 1:5

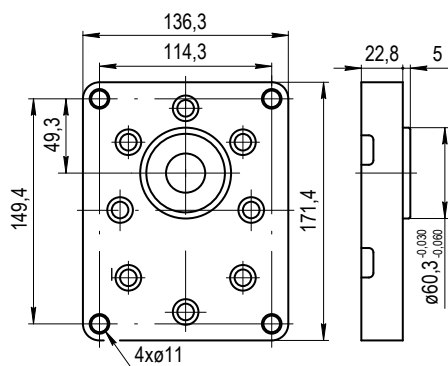
MOUNTING FLANGES



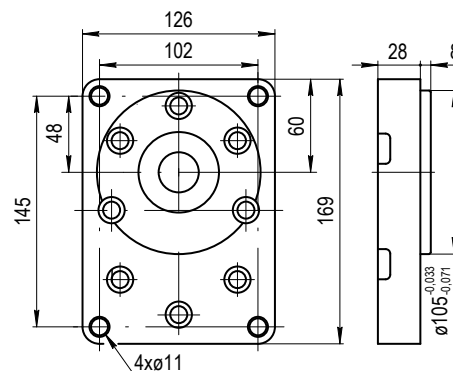
33 SAE B 2 BOLTS



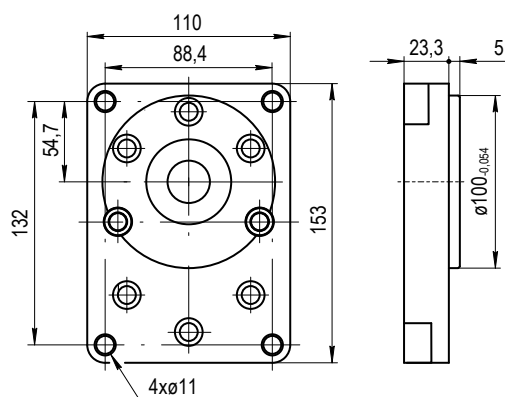
63 EUROPEAN Ø50,8



64 EUROPEAN Ø60,3

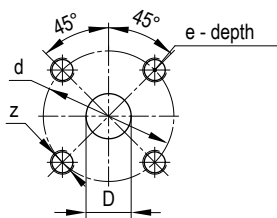


88 GERMAN Ø105

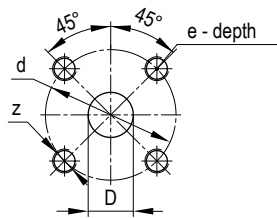


89 GERMAN Ø100

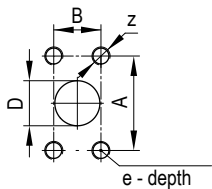
PORTS



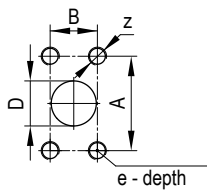
B EUROPEAN FLANGE



C GERMAN FLANGE



D SAE FLANGE (UNC)



W SAE FLANGE (METRIC)

	Type	Inlet				Outlet			
		d	D	z	e	d	D	z	e
	GM3K20÷56	40	19	M8	18	51	27	M10	18
	GM3K63÷71	51	27	M10		62	32	M12	

For reversible motors

	Type	Inlet				Outlet			
		d	D	z	e	d	D	z	e
	GM3K20÷56	51	27	M10	18	51	27	M10	18
	GM3K63÷71	62	32	M12		62	32	M12	

	Type	Inlet				Outlet			
		d	D	z	e	d	D	z	e
	GM3K20÷56	55	19	M8	16	55	27	M8	16

For reversible motors

	Type	Inlet				Outlet			
		d	D	z	e	d	D	z	e
	GM3K20÷56	55	27	M8	16	55	27	M8	16

	Type	Inlet					Outlet				
		A	B	D	z	e	A	B	D	z	e
	GM3K20÷32	47,6	22,2	19	3/8-16 UNC	16	52,4	26,2	25	3/8-16 UNC	16
	GM3K36÷56	52,4	26,2	25			58,7	30,2	32	7/16-14 UNC	
	GM3K63÷71	58,7	30,2	32			7/16-14 UNC	69,8	37,5	40	

For reversible motors

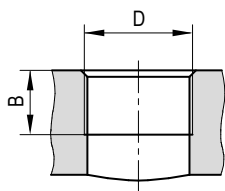
	Type	Inlet					Outlet				
		A	B	D	z	e	A	B	D	z	e
	GM3K20÷32	52,4	26,2	25	3/8-16 UNC	16	52,4	26,2	25	3/8-16 UNC	16
	GM3K36÷56	58,7	30,2	32	7/16-14 UNC		58,7	30,2	32	7/16-14 UNC	
	GM3K63÷71	69,8	37,5	40	1/2-13 UNC		69,8	37,5	40	1/2-13 UNC	

	Type	Inlet					Outlet				
		A	B	D	z	e	A	B	D	z	e
	GM3K20÷32	47,6	22,2	19	M10	16	52,4	26,2	25	M10	16
	GM3K36÷56	52,4	26,2	25			58,7	30,2	32		
	GM3K63÷71	58,7	30,2	32			69,8	37,5	40		

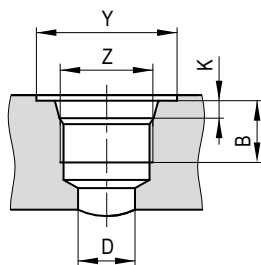
For reversible motors

	Type	Inlet					Outlet				
		A	B	D	z	e	A	B	D	z	e
	GM3K20÷32	52,4	26,2	25	M10	16	52,4	26,2	25	M10	16
	GM3K36÷56	58,7	30,2	32			58,7	30,2	32		
	GM3K63÷71	69,8	37,5	40			69,8	37,5	40		

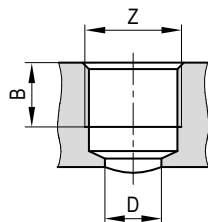
PORTS



E METRIC THREADED



F SAE THREADED



G GAS THREADED

	Type	Inlet		Outlet	
		D	B	D	B
	GM3K20÷25	M26x1,5	24	M26x1,5	24
	GM3K28÷50	M33x2		M33x2	
	GM3K56÷71	M42x2		M42x2	

For reversible motors

	Type	Inlet		Outlet	
		D	B	D	B
	GM3K20÷32	M26x1,5	24	M26x1,5	24
	GM3K36÷56	M33x2		M33x2	
	GM3K63÷71	M42x2		M42x2	

	Type	Inlet					Outlet				
		Z	B	D	Y	K	Z	B	D	Y	K
	GM3K20÷25	1 1/16-12 UN	19	20	41	3,3	1 1/16-12 UN	19	20	41	3,3
	GM3K28÷36						1 5/16-12 UN				
	GM3K40÷63	1 5/16-12 UN	20	23	49		1 5/8-12 UN	20	30	58	
	GM3K71	1 5/8-12 UN		30	58		1 7/8-12 UN		37	65	

For reversible motors

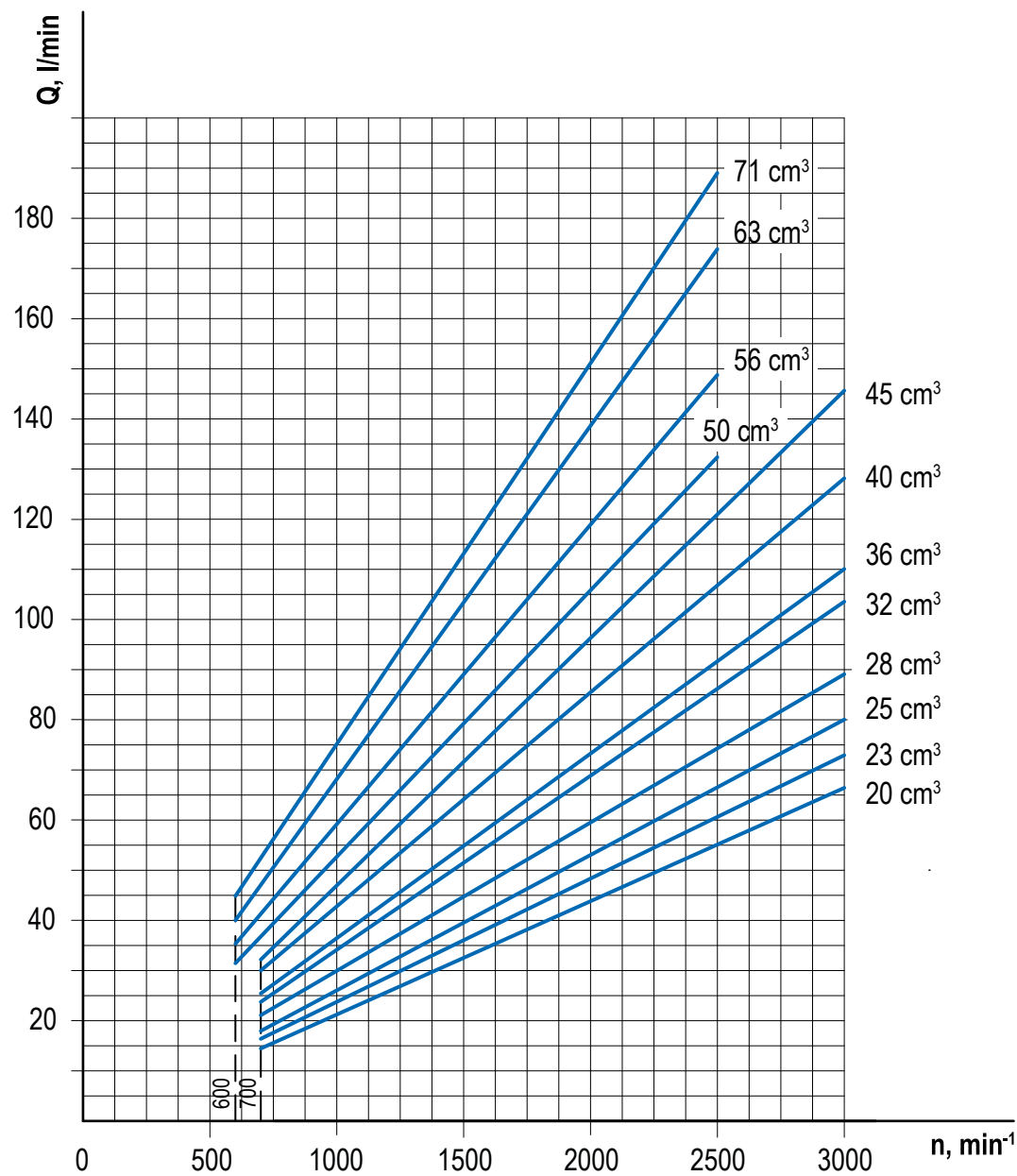
	Type	Inlet					Outlet				
		Z	B	D	Y	K	Z	B	D	Y	K
	GM3K20÷25	1 1/16-12 UN	19	20	41	3,3	1 1/16-12 UN	19	20	41	3,3
	GM3K28÷36						1 5/16-12 UN				
	GM3K40÷63	1 5/16-12 UN	20	23	49		1 5/8-12 UN	20	30	58	
	GM3K71	1 5/8-12 UN		30	58		1 5/8-12 UN		30	58	

	Type	Inlet			Outlet		
		Z	B	D	Z	B	D
	GM3K20÷25	3/4" GAS	19	20	3/4" GAS	19	20
	GM3K28÷50	1" GAS	21	27	1" GAS	21	27
	GM3K56÷71				1 1/4" GAS	21	33

For reversible motors

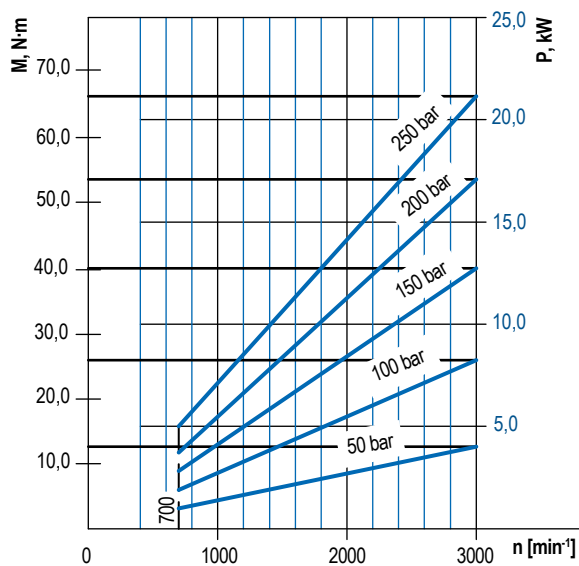
	Type	Inlet			Outlet		
		Z	B	D	Z	B	D
	GM3K20÷25	3/4" GAS	19	20	3/4" GAS	19	20
	GM3K28÷50	1" GAS	21	27	1" GAS	21	27
	GM3K56÷71	1 1/4" GAS	21	33	1 1/4" GAS	21	33

Performance curves carried out with oil viscosity at 16 mm²/sec, oil temperature at 60°C and max. continuous pressures for each type.

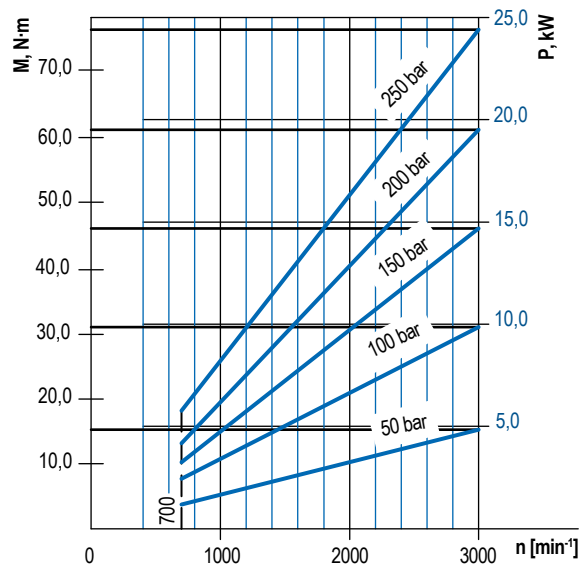


PERFORMANCE CURVES

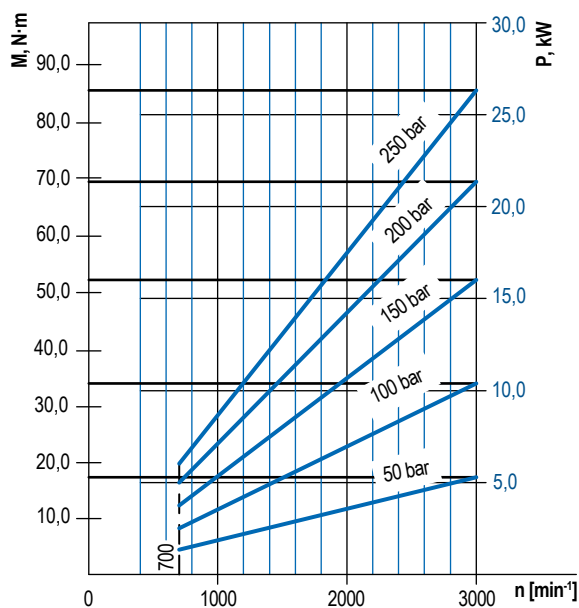
Performance curves carried out with oil viscosity at 16 mm²/sec and oil temperature at 60°C.



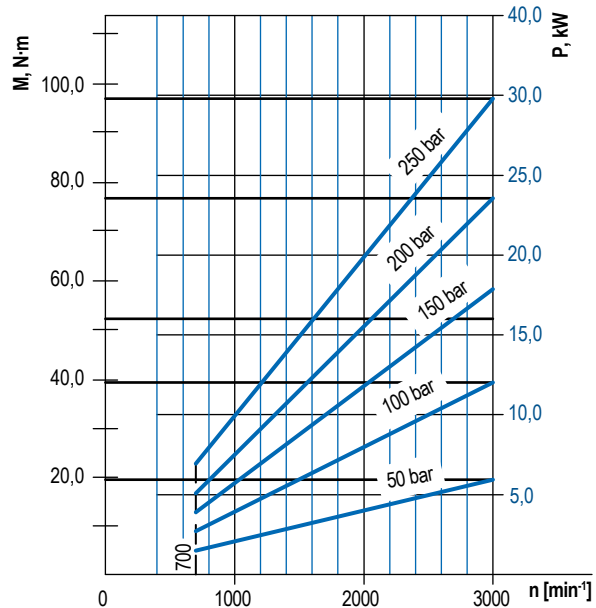
GM3K20



GM3K23



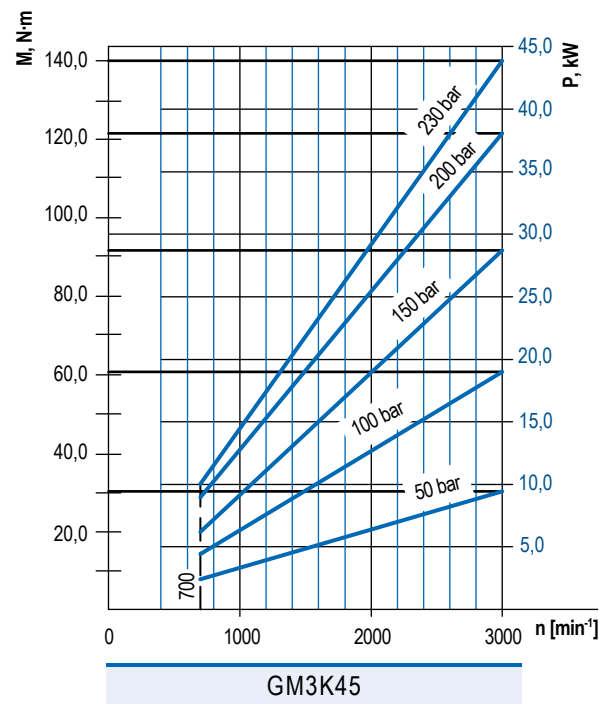
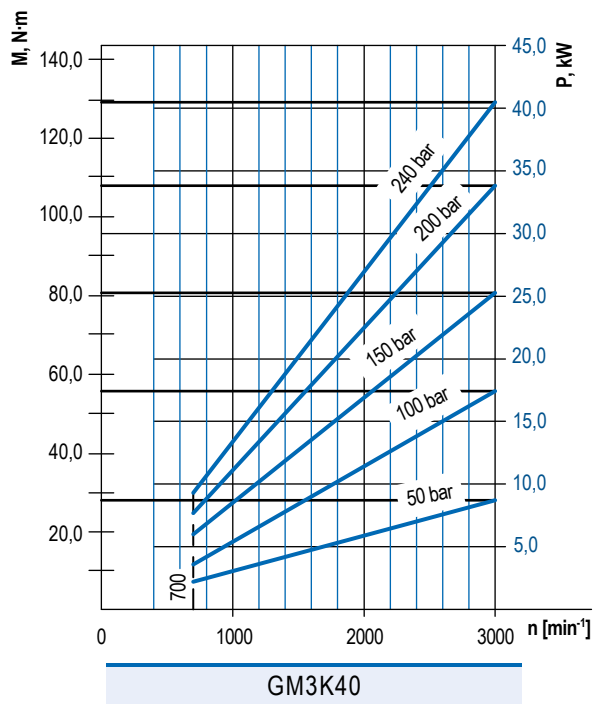
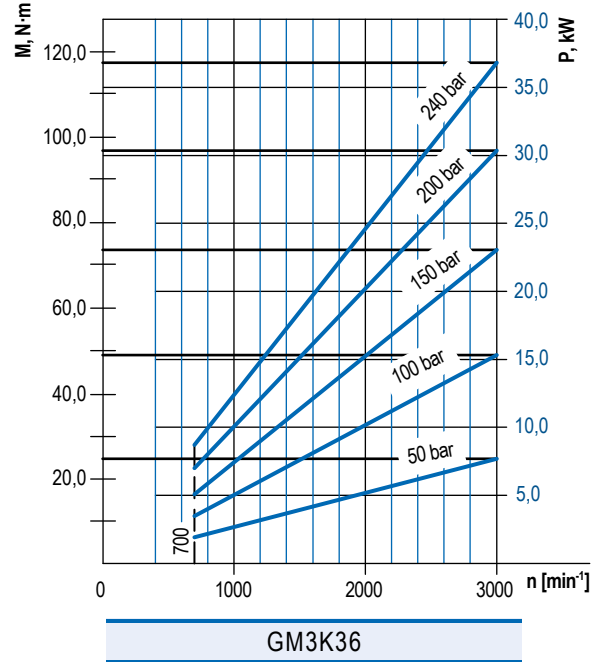
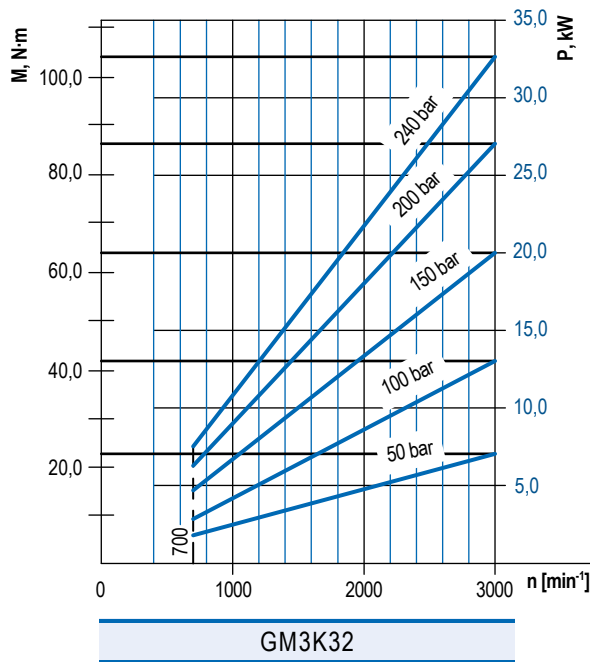
GM3K25



GM3K28

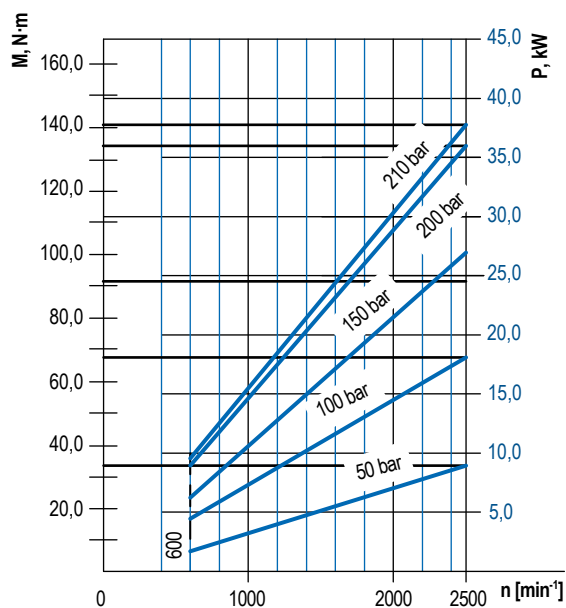
PERFORMANCE CURVES

Performance curves carried out with oil viscosity at 16 mm²/sec and oil temperature at 60°C.

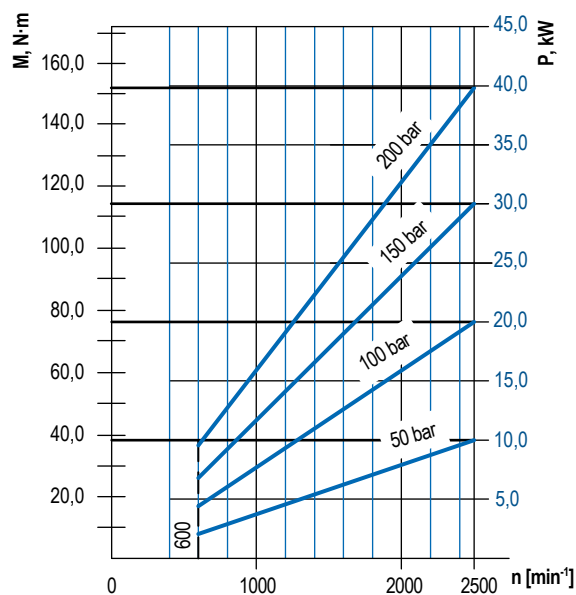


PERFORMANCE CURVES

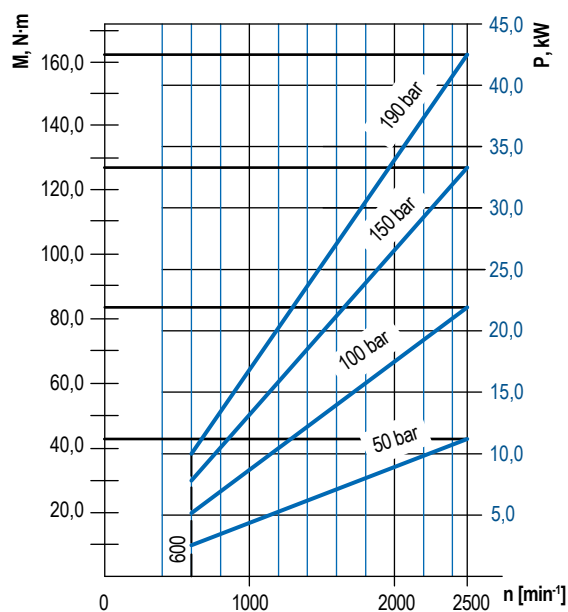
Performance curves carried out with oil viscosity at 16 mm²/sec and oil temperature at 60°C.



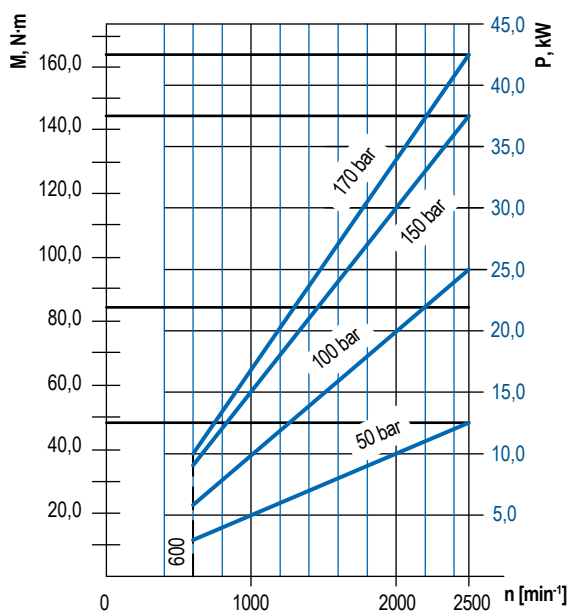
GM3K50



GM3K56

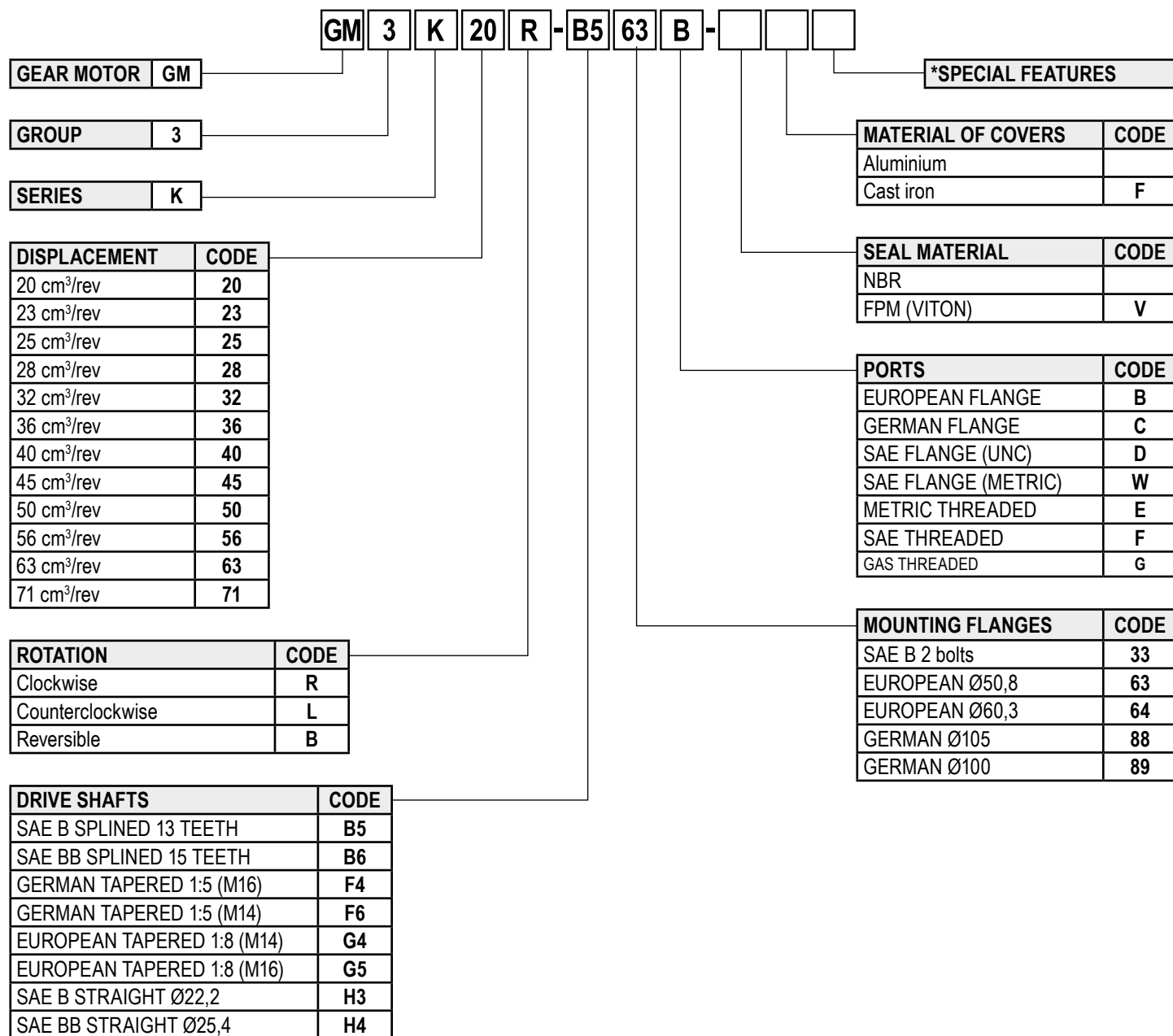


GM3K63



GM3K71

ORDERING INFORMATION



*Special features assigned if necessary

Before mounting a gear pump (motor), please, check the hydraulic system (all its components). Early pump (motor) breakdown may occur due to non-observance of usage rules and the condition of the system.

WHEN INSTALLING YOU SHOULD KEEP THE NEXT REQUIREMENTS:

1. Check the rotation of the pump (motor) to be consistent with the drive shaft one. To define the rotation direction, check the drive shaft: right - clockwise, left - counterclockwise.
2. The pump (motor) is mounted with the screws (nuts), avoiding warp, which can cause radial and axial loads. The screws should be fixed with lock washers.
3. When mounting corners, nipples and others clean the line and o-rings. Grease the o-rings. Inlet and delivery lines should be adjusted with the help of flange.
4. Check the fluid for contamination. If necessary change it. When changing the fluid, change the filter element and the tank valve.
5. After installation it's recommended to fulfill pump (motor) run in at low loads. Check all the components of hydraulic system.

NOTES

[illegible]

NOTES

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HS-GMK-03/062025