



GEAR PUMPS

GROUP 2

MODEL MGP

SERIES K

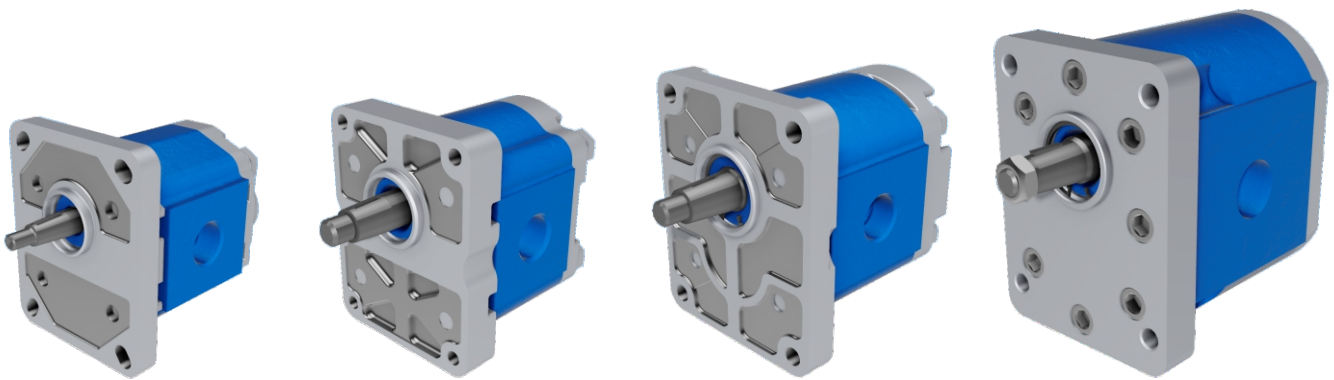
WWW.OLEODINAMICAMOZIONI.IT

GEAR PUMPS SERIES "K" MANUFACTURED BY OLEODINAMICA MOZIONI ARE THE MOST USED IN HYDRAULIC UNITS IN THE HYDRAULIC SYSTEMS OF MOBILE MACHINES AND CONFORM TO INTERNATIONAL STANDARDS.

WE USE THE ADVANCED WORLD'S CONCEPTS – IMPROVING THE TECHNICAL CHARACTERISTICS OF THE PRODUCT, USE ONLY HIGH QUALITY MATERIALS AND HARDWARE MANUFACTURERS OF THE WORLD AT ALL STAGES OF DESIGN AND PRODUCTION. THE QUALITY MANAGEMENT SYSTEM CONFORMS INTERNATIONAL STANDARD ISO 9001: 2008.

GEAR PUMPS SERIES "K" OF OLEODINAMICA MOZIONI HAVE HIGH VOLUMETRIC AND MECHANICAL EFFICIENCY, LOW NOISE AND OPERATE RELIABLY IN A VARIETY HYDRAULIC SYSTEMS AND MOBILE MACHINERY.

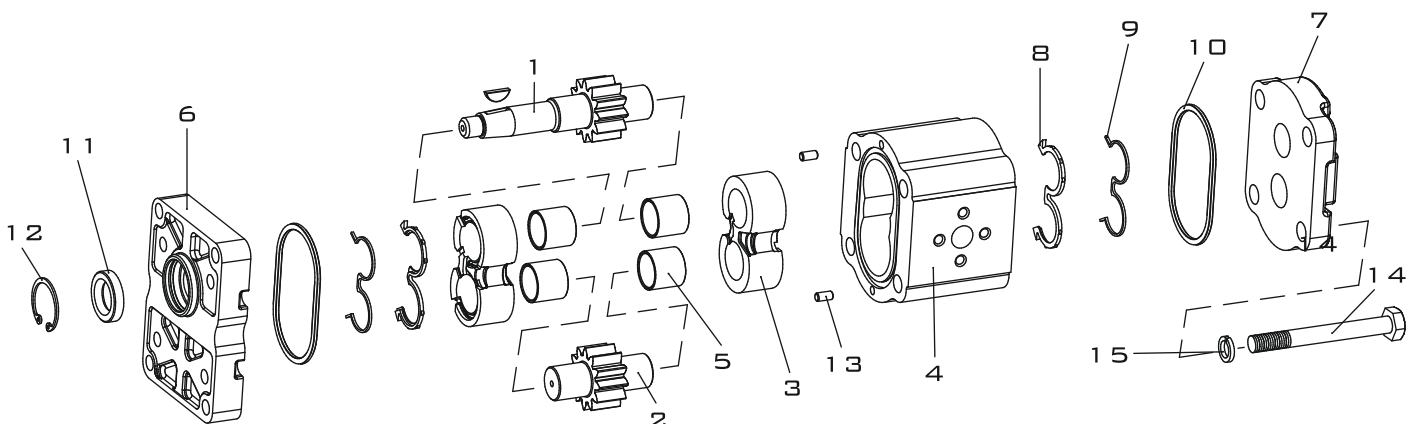
- DIMENSIONS OF THE PUMPS ARE ACCORDING TO INTERNATIONAL STANDARDS SAE, DIN, EUROPEAN.
- GEAR PUMPS ARE SUPPLIED IN NEXT GROUPS: MGP1K, MGP2K, MGP2.5K, MGP3K WITH DISPLACEMENTS FROM 1 TO 90 CM³/REV.
- MAXIMUM CONTINUOUS PRESSURE UP TO 250 BAR.
- MOUNTING FLANGES AND REAR COVERS ARE PRODUCED WITH ALUMINIUM OR CAST IRON.
- BUILT-IN VALVES IN REAR COVER.
- MULTIPLE UNITS AVAILABLE WITH SEPARATED OR COMMON INLET FOR STAGES.
- PUMPS WITH BEARING SUPPORT FOR HEAVY DUTY APPLICATIONS.



GEAR PUMPS SERIES "K" ARE MANUFACTURED WITH THRU-BOLT OF ROLLED ALUMINIUM, MOUNTING FLANGES AND REAR COVERS EITHER IN ALUMINIUM OR IN CAST IRON FOR MOBILE MACHINES, WHERE THERE ARE INCREASED REQUIREMENTS FOR THE NOISE LEVEL.

GEAR PUMPS SERIES "K" HAVE HIGH ANTI-FRICTION AND STRENGTH CHARACTERISTICS. THE SEALS REDUCE INTERNAL FLOW OF THE FLUID AND TO ACHIEVE A HIGH VOLUMETRIC EFFICIENCY.

1. DRIVE SHAFT
2. DRIVEN SHAFT
3. BEARING HOUSING
4. BODY
5. SLIDE BEARING
6. MOUNTING FLANGE
7. REAR COVER
8. COMPENSATION SEAL
9. ANTI-EXTRUSION PLATE
10. SEALING RING
11. SHAFT SEAL
12. STOP RING
13. CENTERING PIN
14. SCREW
15. WASHER



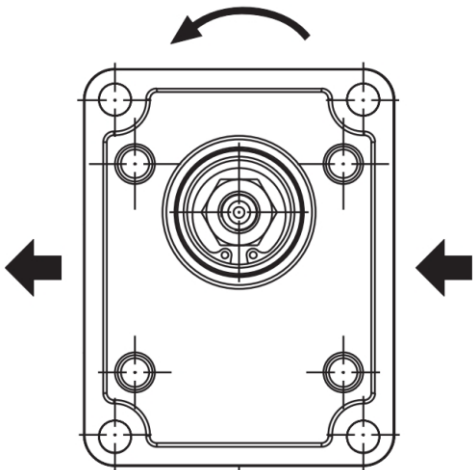


WORKING CONDITIONS

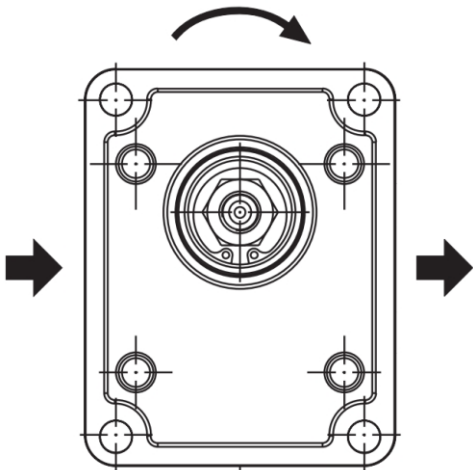
INLET PRESSURE (MAX.)	0.5 – 2.5 BAR
MIN. OPERATING FLUID VISCOSITY	10 MM ² /SEC
MAX. STARTING VISCOSITY (COLD START)	1000 MM ² /SEC
FLUID VISCOSITY RECOMMENDED RANGE	17 – 65 MM ² /SEC
FLUID OPERATING TEMPERATURE RANGE WITH NBR SEALS	-40 + 100 °C
FLUID OPERATING TEMPERATURE RANGE WITH FPM SEALS (VITON)	-20 + 170 °C
HYDRAULIC FLUID	MINERAL OIL
CONTAMINATION CLASS ISO 4406	18/15 (>200 BAR), 19/16 (<200 BAR)
CONTAMINATION CLASS NAS 1638	9 (>200 BAR), 10 (<200 BAR)
ACHIEVED WITH FILTER β _x =75	15 μM (>200 BAR), 25 μM (<200 BAR)

DEFINITION OF ROTATION DIRECTION
LOOKING ON THE DRIVE SHAFT

COUNTERCLOCKWISE ROTAION

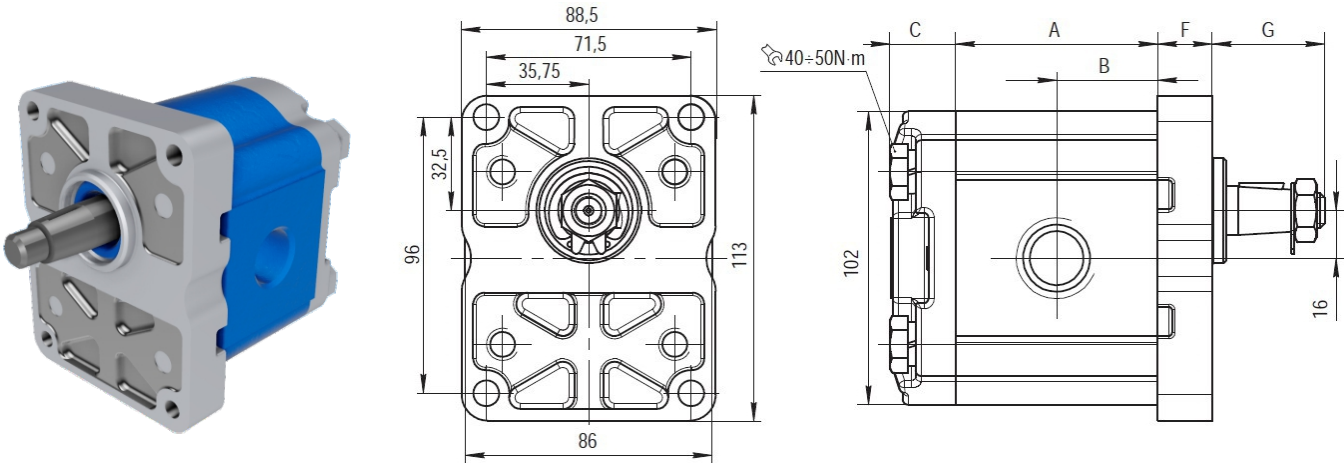


CLOCKWISE ROTAION



TECHNICAL DATA AND INSTALLATION DIMENSIONS

TYPE	MGP2K4	MGP2K5	MGP2K6	MGP2K8	MGP2K10	MGP2K11	MGP2K12	MGP2K14
DISPLACEMENT, CM ³ /REV	4,5	5,6	6,3	8,2	10,0	11,3	12,5	14,0
DIMENSION A, MM	47,5	49,1	50,2	53,2	56,0	58,0	59,8	62,1
DIMENSION B, MM	23,7	24,6	25,1	26,5	28,0	29,0	29,9	31,1
MAX. CONTINUOUS PRESSURE P ₁ , BAR	250							
MAX. INTERMITTENT PRESSURE P ₂ , BAR	280							
PEAK PRESSURE P ₃ , BAR	300							
MAX. SPEED N _{MAX} , MIN ⁻¹	4000				3500			
MIN. SPEED AT P ₁ ≤ 100 BAR, N _{MIN} , MIN ⁻¹	700					600		
WEIGHT*, KG	2,1	2,1	2,2	2,2	2,3	2,4	2,4	2,6



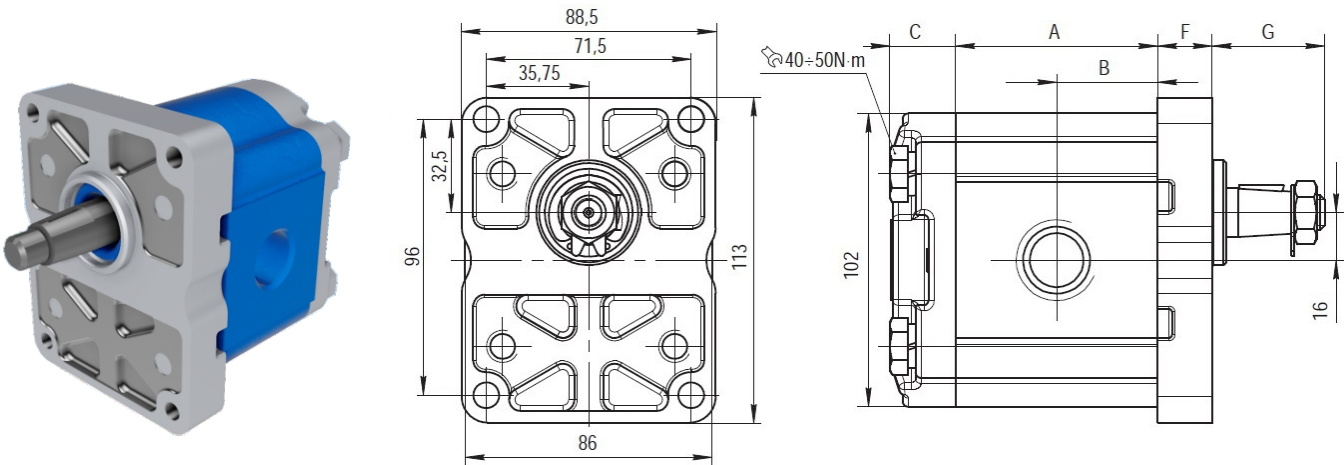
DIMENSION G SEE AT SECTION “DRIVE SHAFTS”
 DIMENSION F SEE AT SECTION “MOUNTING FLANGES”
 DIMENSION C SEE AT SECTION “REAR COVERS”

* – WEIGHT SPECIFIED FOR PUMPS WITH ALUMINUM COVERS.
 WEIGHT FOR PUMPS WITH CAST IRON COATINGS MUST BE CLARIFY.



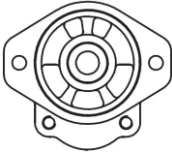
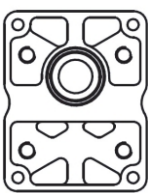
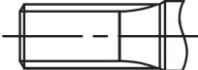
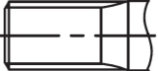
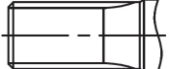
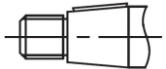
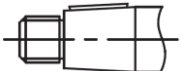
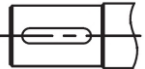
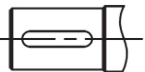
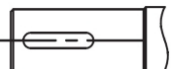
TECHNICAL DATA AND INSTALLATION DIMENSIONS

TYPE	MGP2K15	MGP2K16	MGP2K17	MGP2K19	MGP2K20	MGP2K23	MGP2K25	MGP2K28
DISPLACEMENT, CM ³ /REV	15,0	16,0	17,0	19,0	20,0	22,5	24,8	28,0
DIMENSION A, MM	63,7	65,2	66,9	69,9	71,4	75,3	78,8	83,7
DIMENSION B, MM	31,9	32,6	33,5	35,0	35,7	37,7	39,4	41,9
MAX. CONTINUOUS PRESSURE P ₁ , BAR	250			220	210	190	170	150
MAX. INTERMITTENT PRESSURE P ₂ , BAR	280			250	230	210	190	170
PEAK PRESSURE P ₃ , BAR	300			270	250	230	210	190
MAX. SPEED N _{MAX} , MIN ⁻¹	3500	3000					2500	
MIN. SPEED AT P ₁ ≤ 100 BAR, N _{MIN} , MIN ⁻¹	600			500				
WEIGHT*, KG	2,6	2,7	2,7	2,8	2,8	3,0	3,2	3,4



DIMENSION G SEE AT SECTION “DRIVE SHAFTS”
DIMENSION F SEE AT SECTION “MOUNTING FLANGES”
DIMENSION C SEE AT SECTION “REAR COVERS”

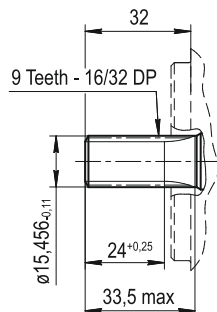
* – WEIGHT SPECIFIED FOR PUMPS WITH ALUMINUM COVERS.
WEIGHT FOR PUMPS WITH CAST IRON COATINGS MUST BE CLARIFY.

MGP2K		POMPE AD INGRANAGGI						
GEAR PUMPS GROUP 2								
COMBINATIONS OF MOUNTING FLANGES & SHAFTS								
MGP2K								
	SAE "A" 2 BOLTS	EUROPEAN	GERMAN ø80	GERMAN 2 BOLTS ø50	GERMAN 2 BOLTS ø52	GERMAN 4 BOLTS ø52	FOR PERKINS MOTOR	
	B2 31 B2 32							
SAE A SPLINED (9 TEETH)								
	B3 31 B3 32							
SAE A SPLINED (10 TEETH)								
	B4 31 B4 32							
SAE A SPLINED (11 TEETH)								
		G2 61 G2 62						G2 21
EUROPEAN TAPERED 1:8								
			F2 81	F2 91 F2 92				
GERMAN TAPERED 1:5								
	H2 31 H2 32	H2 61 H2 62						
SAE "A" STRAIGHT ø15,87								
	H8 31 H8 32							
SAE "A" STRAIGHT ø19,05								
	H9 31 H9 32							
SAE "A" STRAIGHT ø19,05 LENGTH								
					K3 93 K3 94	K3 95		
TANG DRIVE								
				K4 91 K4 92				
TANG DRIVE								
		I2 61 I2 62	I2 81	I2 91 I2 92				
DIN 5482 SPLINED (9 TEETH)								
THIS COMBINATIONS OF MOUNTING FLANGES AND SHAFTS ARE USED TO SERIAL PRODUCTION. THE OTHER COMBINATIONS AND DATE OF PRODUCTION, BEFORE ORDERING CLARIFY WITH THE MANUFACTURER.								
SEE ALSO: MGP1K MGP2.5K, MGP3K								



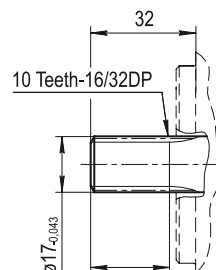
DRIVE SHAFTS

MAX. TORQUE 100 N·M



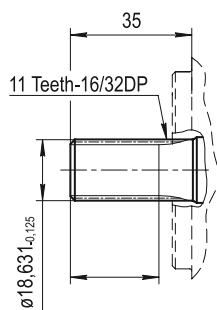
B2 – SAE A SPLINED (9 TEETH)

MAX. TORQUE 130 N·M



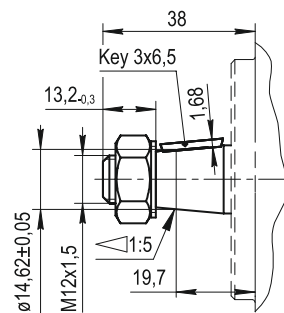
B3 – SAE A SPLINED (10 TEETH)

MAX. TORQUE 170 N·M



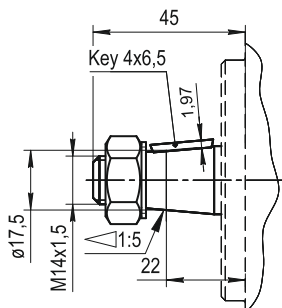
B4 – SAE A SPLINED (11 TEETH)

MAX. TORQUE 140 N·M



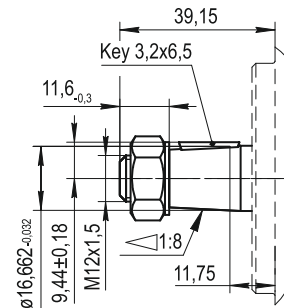
F2 – GERMAN TAPERED 1:5

MAX. TORQUE 140 N·M



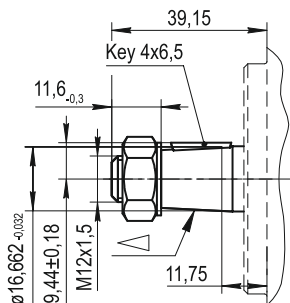
F6 – GERMAN TAPERED 1:5

MAX. TORQUE 140 N·M



G2 – EUROPEAN TAPERED 1:8

MAX. TORQUE 140 N·M

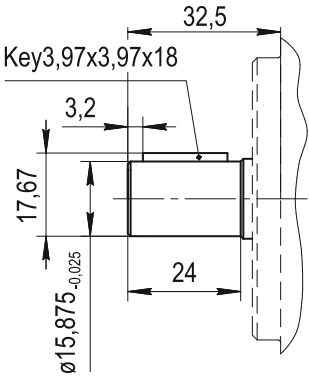


G6 – EUROPEAN TAPERED 1:8



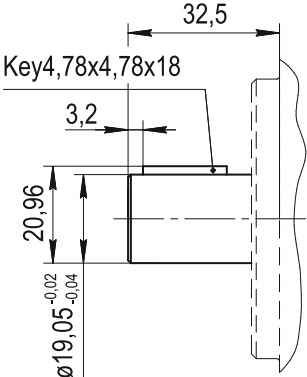
DRIVE SHAFTS

MAX. TORQUE 70 N·M



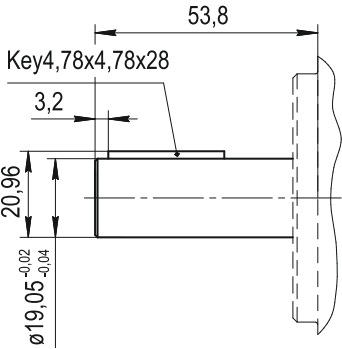
H2 – SAE A STRAIGHT Ø15,87

MAX. TORQUE 100 N·M



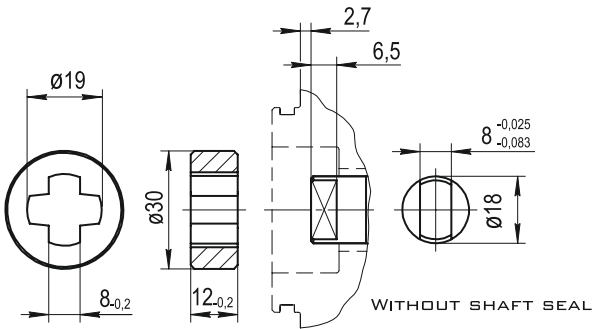
H8 – SAE A STRAIGHT Ø19,05

MAX. TORQUE 140 N·M



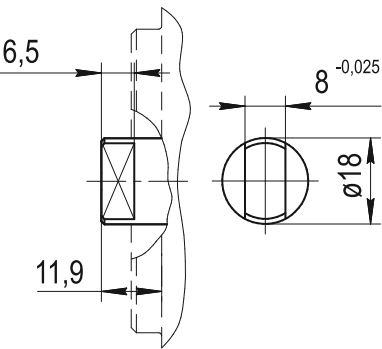
H9 – SAE A STRAIGHT
Ø19,05 LENGTH

MAX. TORQUE 70 N·M



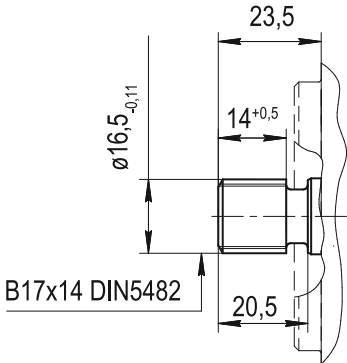
K3 – TANG DRIVE FOR
ELECTRIC MOTORS

MAX. TORQUE 70 N·M



K4 – TANG DRIVE

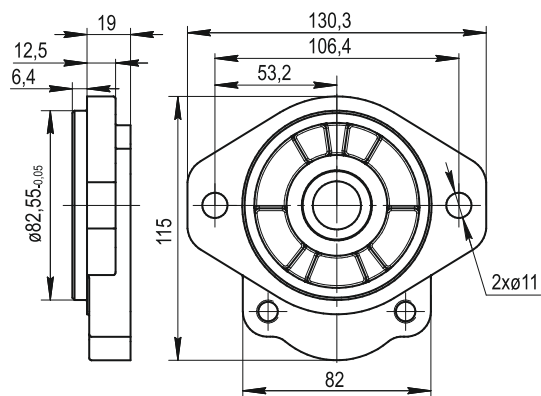
MAX. TORQUE 70 N·M



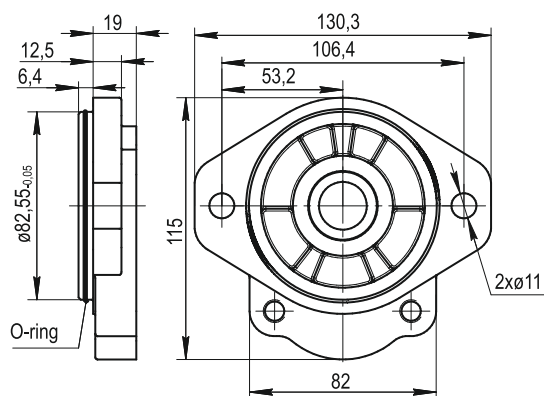
I2 – DIN 5482 SPLINED (9 TEETH)



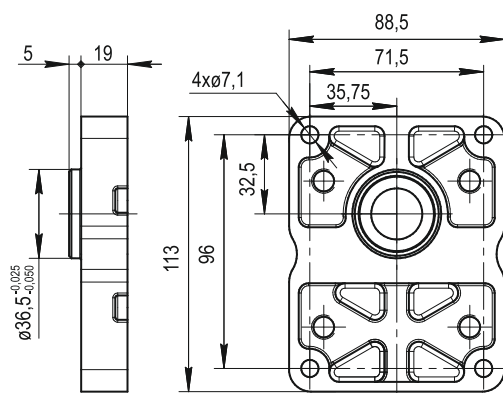
MOUNTING FLANGES



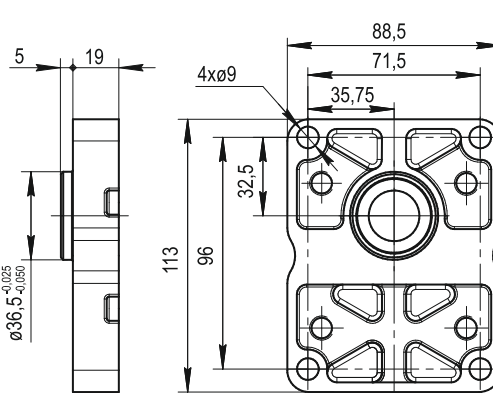
31 – SAE A 2 BOLTS



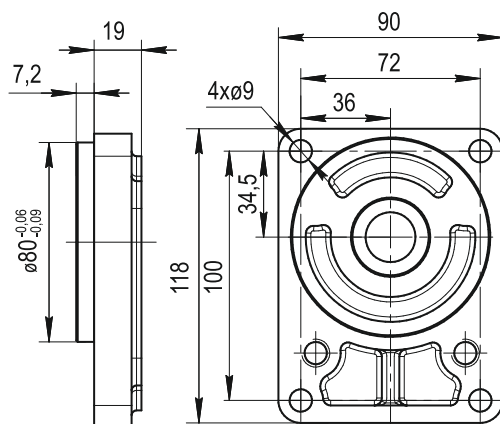
32 – SAE A 2 BOLTS (WITH O-RING)



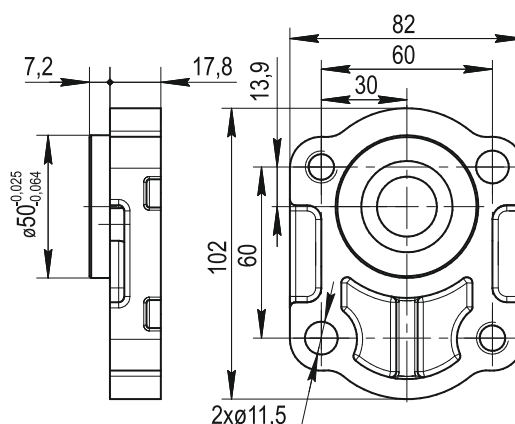
61 – EUROPEAN Ø7,1



62 – EUROPEAN Ø9

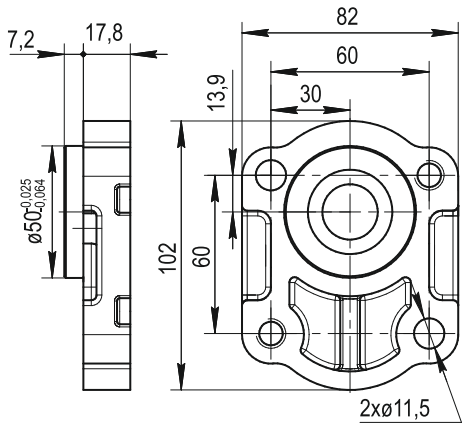


81 – GERMAN Ø80

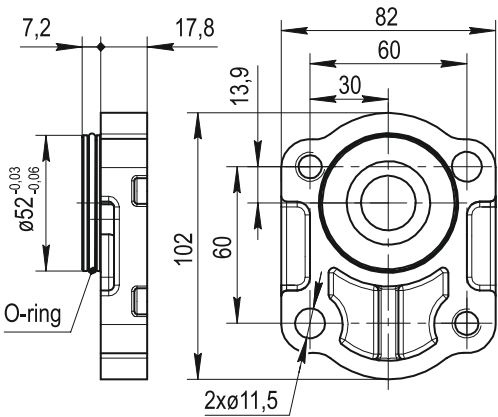


91 – GERMAN 2 BOLTS Ø50

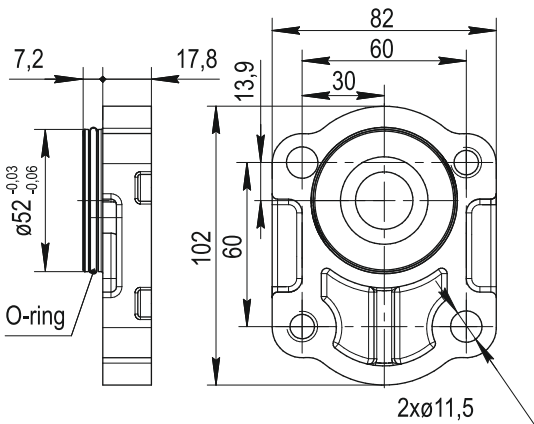
MOUNTING FLANGES



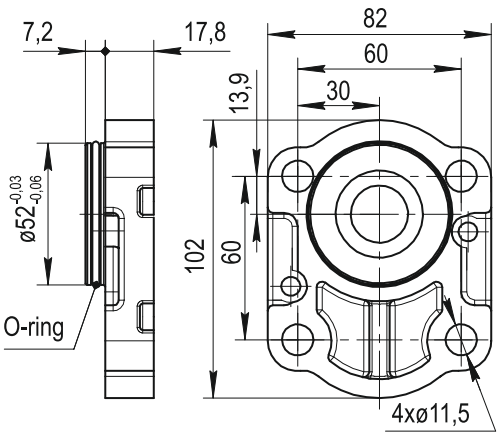
92 - GERMAN 2 BOLTS Ø50



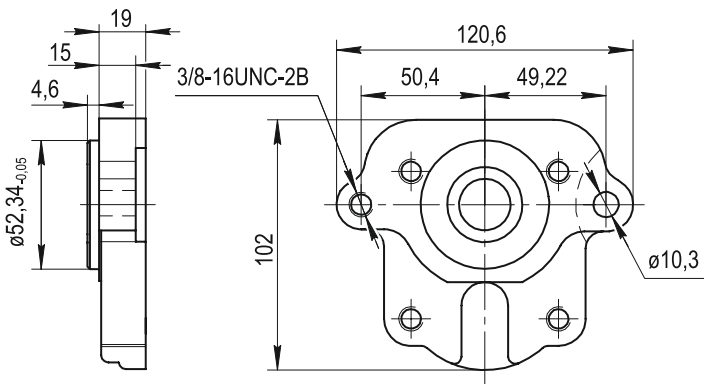
93 - GERMAN 2 BOLTS Ø52



94 - GERMAN 2 BOLTS Ø52



95 - GERMAN 4 BOLTS Ø52



21 - MOUNTING FLANGE
FOR PERKINS MOTOR

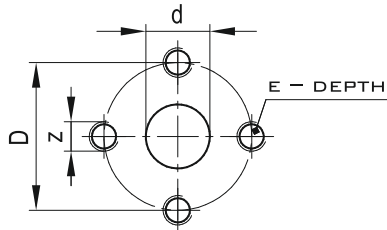


POMPE AD INGRANAGGI

MGP2K

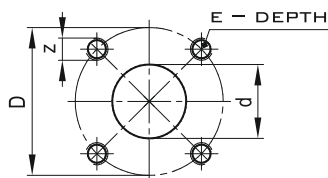
GEAR PUMPS
GROUP 2

PORTS



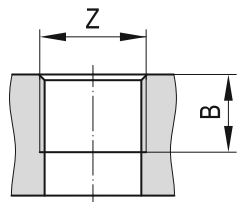
B – EUROPEAN FLANGE

TYPE	INLET				OUTLET			
	D	D	Z	E	D	D	Z	E
MGP2K4÷8	13	30	M6	13	13	30	M6	13
MGP2K10÷28	19	40	M8		14			



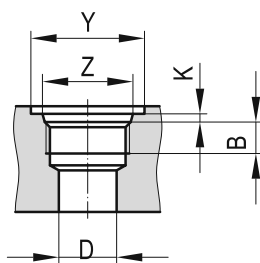
C – GERMAN FLANGE

TYPE	INLET				OUTLET			
	D	D	Z	E	D	D	Z	E
MGP2K4÷28	20	40	M6	13	15	35	M6	13



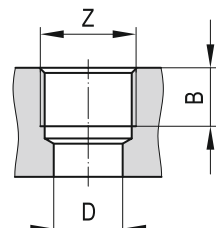
E – METRIC THREADED

TYPE	INLET		OUTLET	
	Z	B	Z	B
MGP2K4÷8	M18x1,5	16	M14x1,5	16
MGP2K10÷12	M22x1,5		M18x1,5	
MGP2K14÷28	M27x2			



F – SAE THREADED

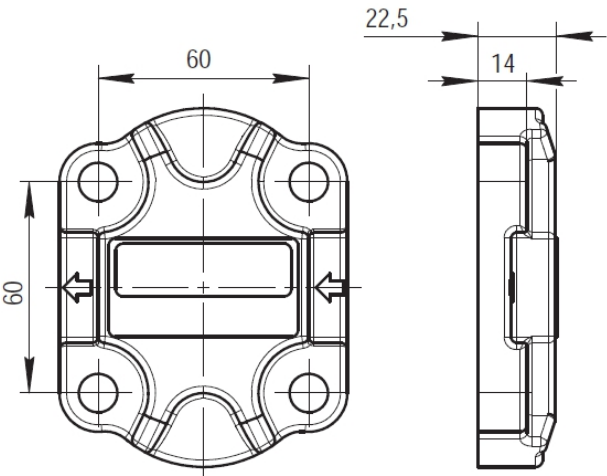
TYPE	INLET					OUTLET				
	Z	B	K	D	Y	Z	B	K	D	Y
MGP2K4÷8	7/8-14 UNF (SAE #10)	14	2,5	13	32	7/8-14 UNF (SAE #10)	14	2,5	13	32
MGP2K10÷28	1 1/16-12 UN (SAE #12)	16	3,3	20	42					



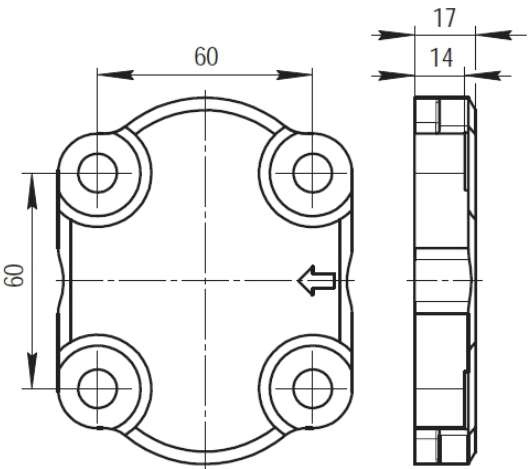
G – GAS THREADED (BSPP)

TYPE	INLET			OUTLET		
	Z	B	D	Z	B	D
MGP2K4÷8	1/2" GAS	16	13	1/2" GAS	16	13
MGP2K10÷28	3/4" GAS	19	20			

REAR COVERS

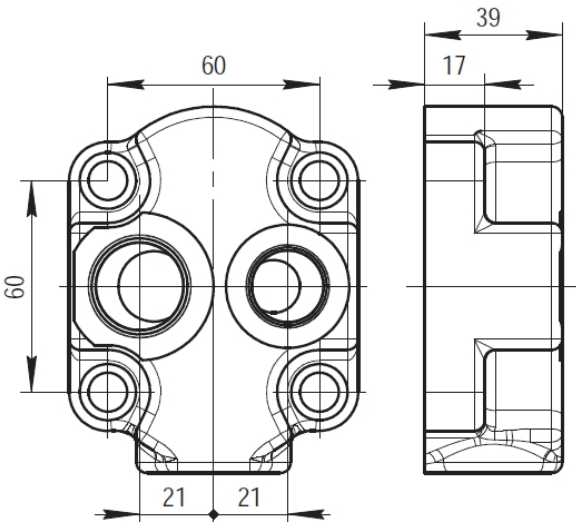


ALUMINIUM

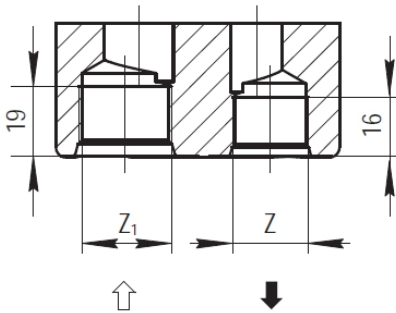


CAST IRON

STANDART REAR COVERS



CAST IRON



INLET	OUTLET
Z	Z1
M18x1,5	M26x1,5
7/8-14 UNF	1 1/16-12 UN
1/2" GAS	3/4" GAS

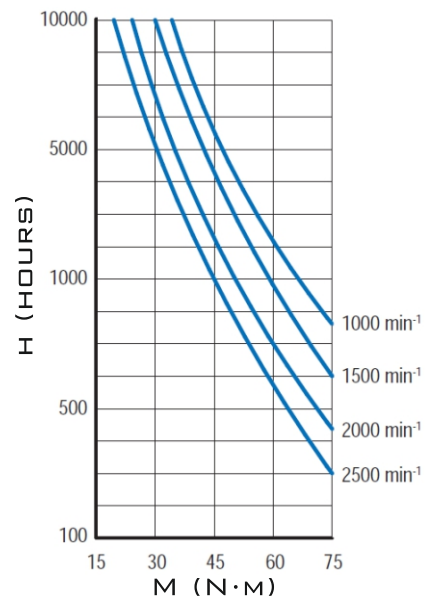
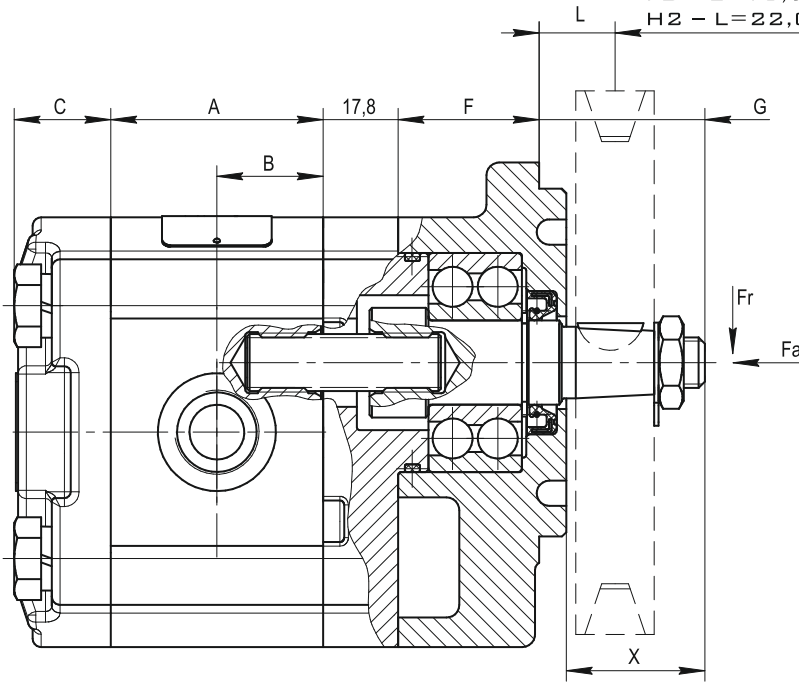
1 – REAR COVER WITH THREADED PORTS



OUTRIGGER BEARING VERSION

FOR DRIVE SHAFT:
G2 - L=15,4 MM;
F2 - L=16,9 MM;
H2 - L=22,0 MM

SERVICE LIFE
(L=18 MM,
PULLEY DIAMETER=90 MM):



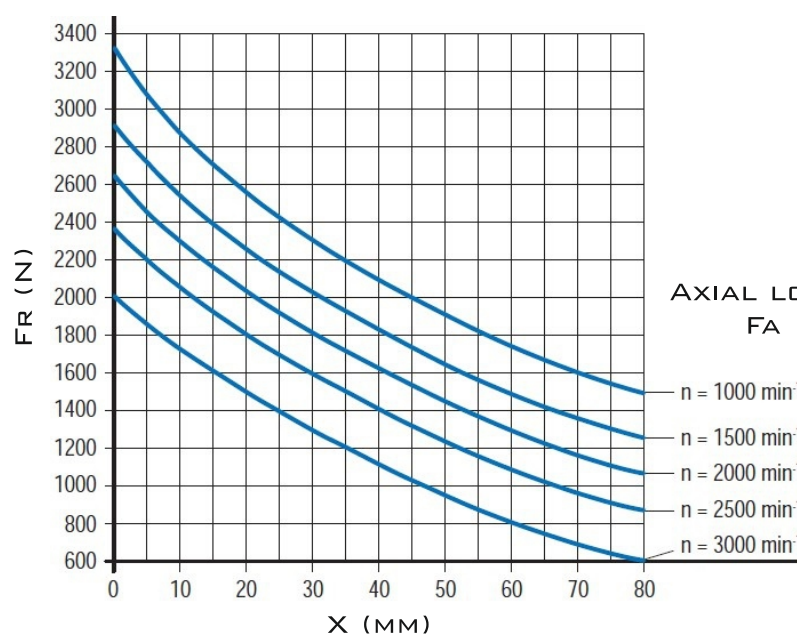
DIMENSION A AND B SEE AT SECTION "TECHNICAL DATA"

DIMENSION G SEE AT SECTION "DRIVE SHAFTS"

DIMENSION F SEE AT SECTION "MOUNTING FLANGES WITH BEARING SUPPORT"

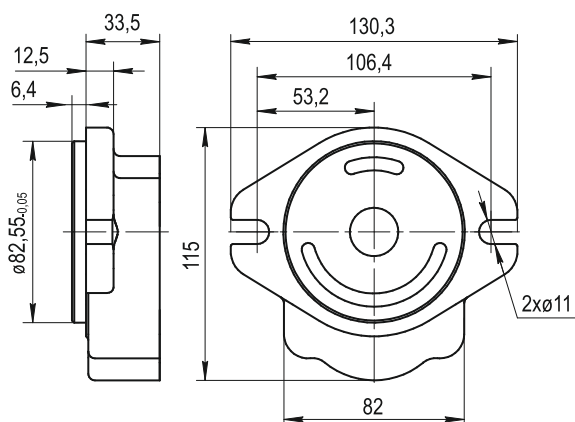
DIMENSION C SEE AT SECTION "REAR COVERS"

WORKING CHARACTERISTIC OF OUTRIGGER BEARING

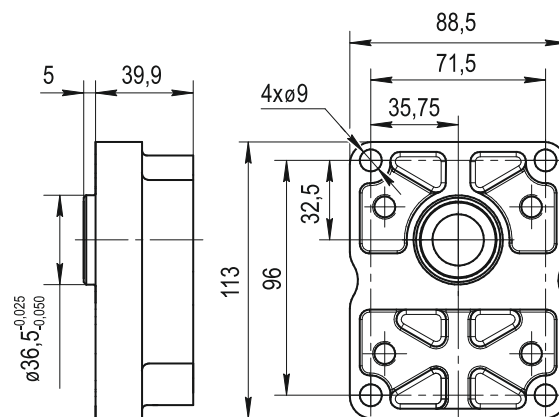


AXIAL LOAD ON SHAFT
 $F_A < F_R \cdot 0,8$

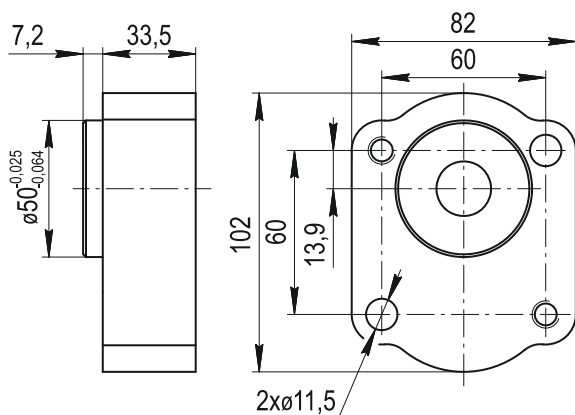
MOUNTING FLANGES WITH BEARING SUPPORT



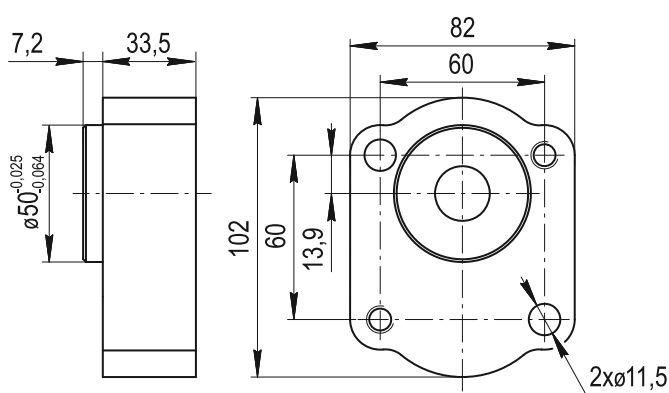
C3 - SAE A



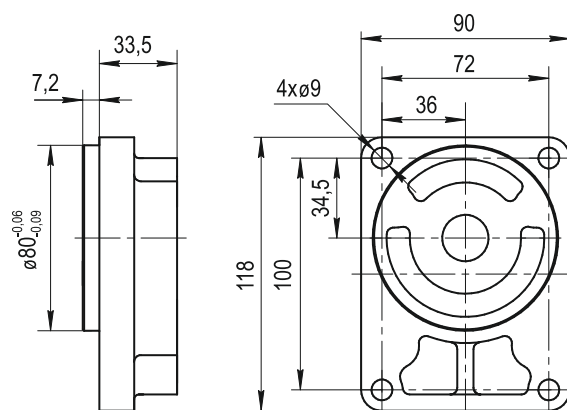
C6 - EUROPEAN



C7 - GERMAN Ø50



C8 - GERMAN Ø50



C9 - GERMAN Ø80

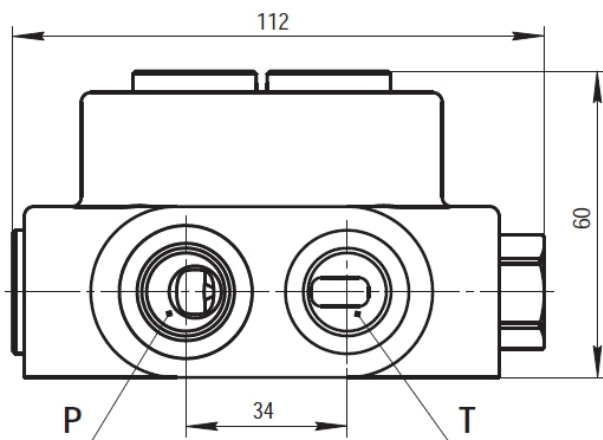


POMPE AD INGRANAGGI

MGP2K

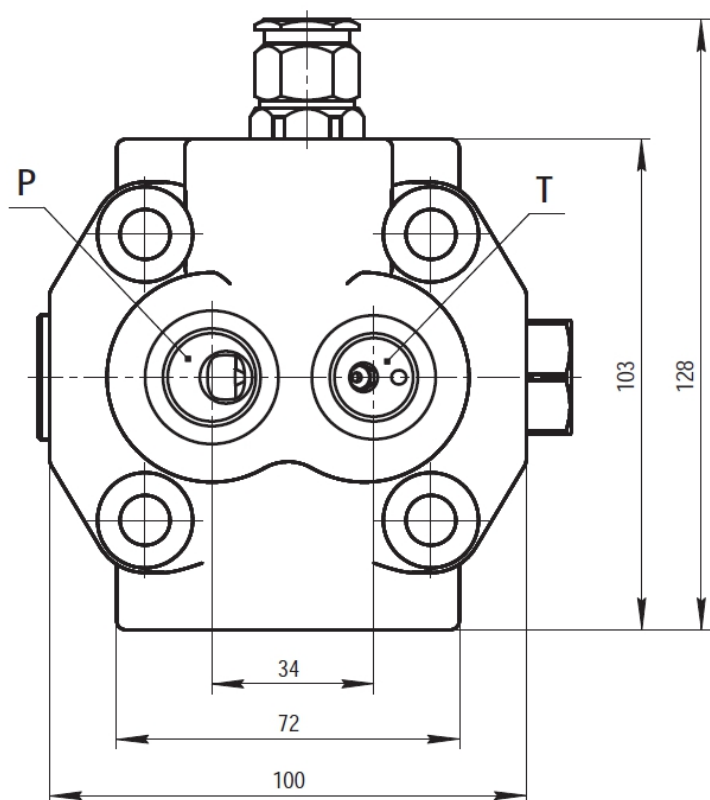
GEAR PUMPS
GROUP 2

VERSION WITH VALVE IN REAR COVER

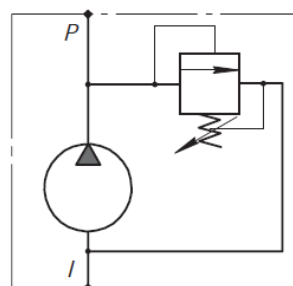


PRESSURE SETTING OF RELIEF VALVE:
20÷280 BAR

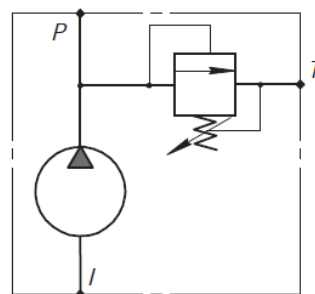
CODE	P	T
E	M20x1,5	M18x1,5
F	7/8-14 UNF	3/4-16 UNF
G	1/2" GAS	3/8" GAS



P – PRESSURE LINE
T – RETURN LINE



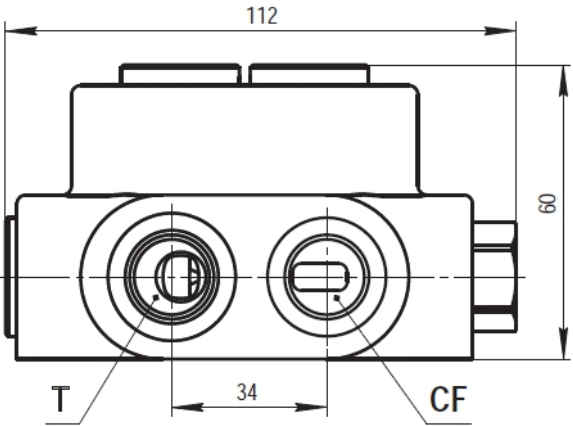
VR – RETURN TO SUCTION
RELIEF VALVE



VR1 – RETURN-TO-TANK
RELIEF VALVE

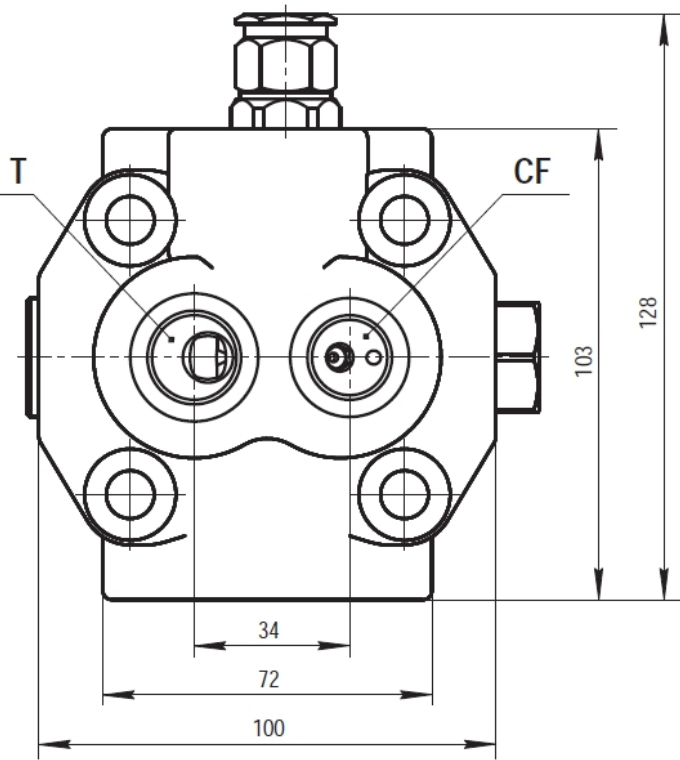


VERSION WITH VALVE IN REAR COVER

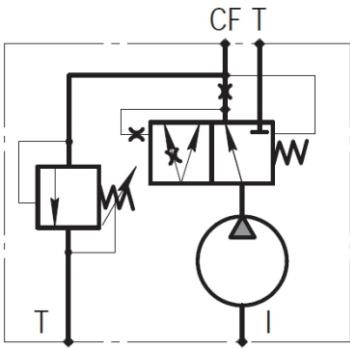


PRESSURE SETTING OF RELIEF VALVE:
20÷280 BAR

CODE	P	T
E	M18x1,5	M18x1,5
F	3/4-16 UNF	3/4-16 UNF
G	3/8" GAS	3/8" GAS



CONSTANT FLOW, L/MIN (± 10%)	1,2	2	4,5	6	8	10
	12	14,5	18	20	23	25

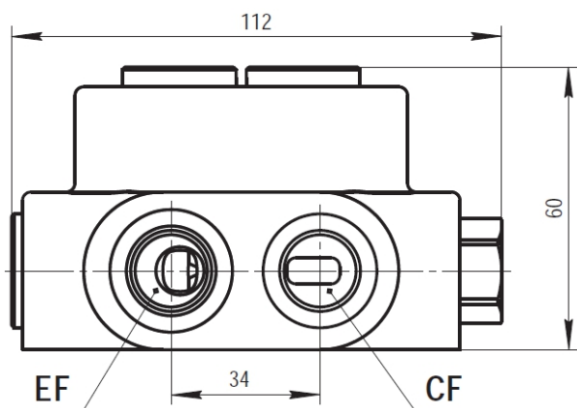


VQR – CONSTANT FLOW VALVE
WITH A RELIEF VALVE AND
RETURN LINE TO TANK

CF – CONSTANT FLOW LINE
T – RETURN LINE

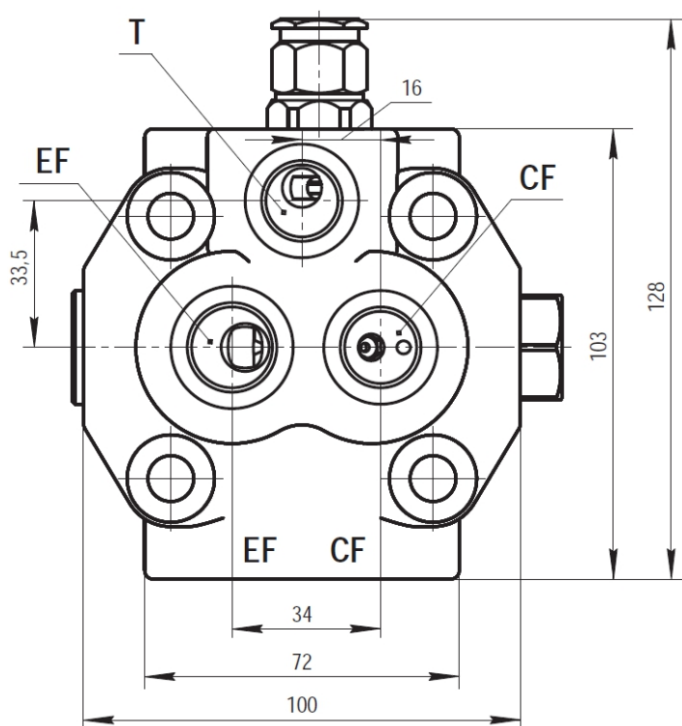


VERSION WITH VALVE IN REAR COVER

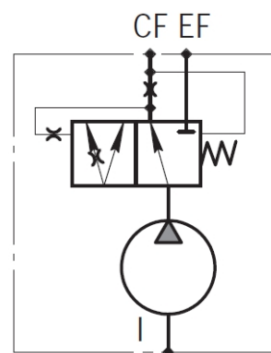


PRESSURE SETTING OF RELIEF VALVE:
20÷280 BAR

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



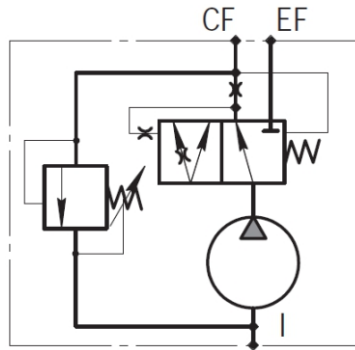
PRIORITY FLOW, L/MIN (± 10%)	1,2	2	4,5	6	8	10
	12	14,5	18	20	23	25



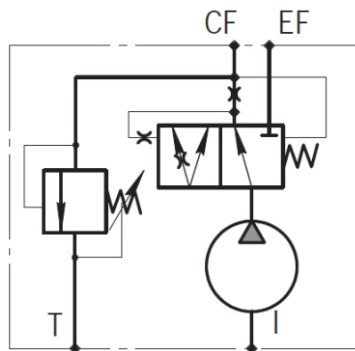
VP – PRIORITY VALVE

CF – PRIORITY FLOW LINE
EF – SECONDARY LINE
T – RETURN LINE

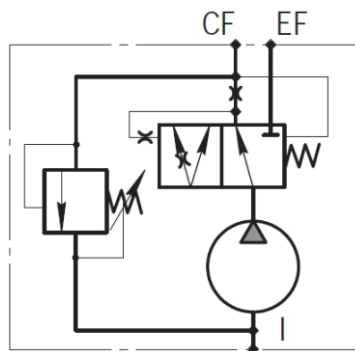
VERSION WITH VALVE IN REAR COVER



VPR – PRIORITY VALVE WITH A RELIEF VALVE IN THE PRIORITY LINE
AND WITH OIL DRAINAGE IN THE SUCTION LINE OF THE PUMP



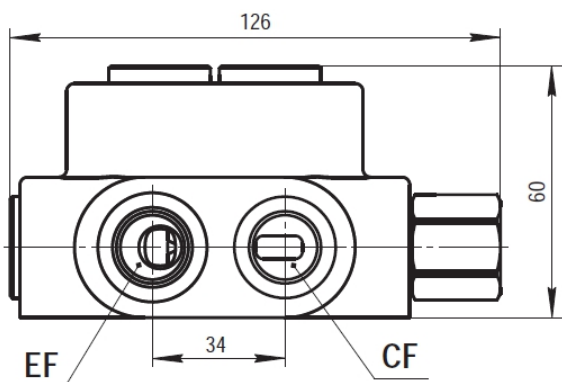
VPRT – PRIORITY VALVE WITH A RELIEF VALVE IN THE PRIORITY LINE
AND WITH OIL DRAINAGE IN THE TANK



VPRET – PRIORITY VALVE WITH A RELIEF VALVE IN THE SECONDARY LINE
AND WITH OIL DRAINAGE IN THE TANK

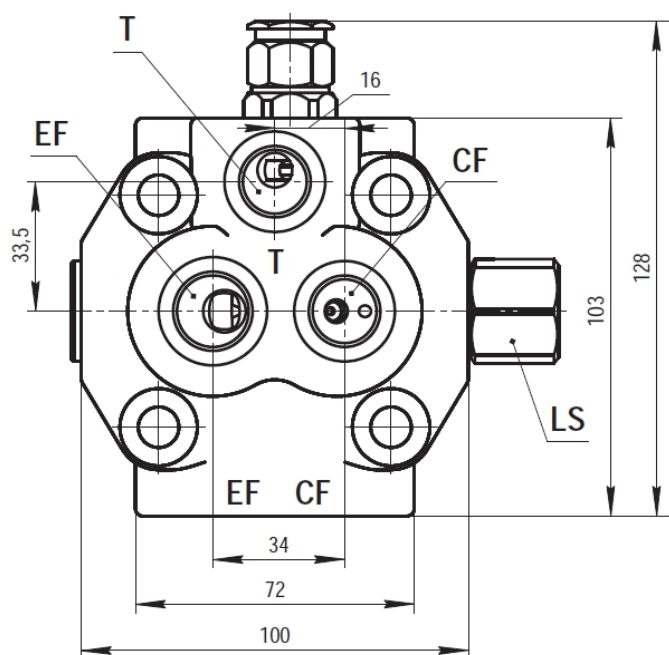


VERSION WITH VALVE IN REAR COVER

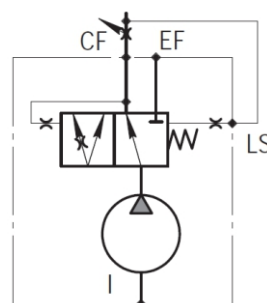


PRESSURE SETTING OF RELIEF VALVE:
20÷280 BAR

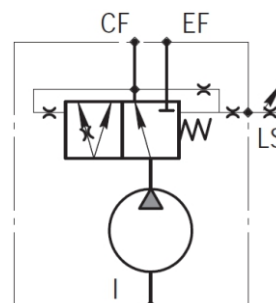
CODE	CF	EF	T	LS
E	M18x1,5	M20x1,5	M18x1,5	M14x1,5
F	3/4-16 UNF	7/8-16 UNF	3/4-16 UNF	7/16-20 UNF
G	3/8" GAS	1/2" GAS	3/8" GAS	1/4" GAS



LS SIGNAL, BAR	4	7	10
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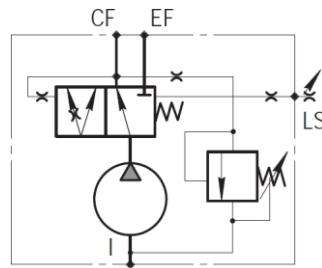
VPLS – PRIORITY VALVE WITH
STATIC LS CONTROL



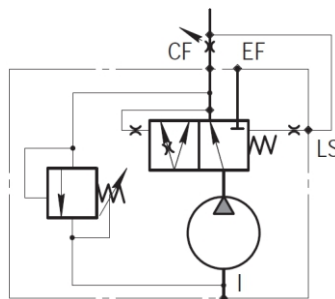
VPLD – PRIORITY VALVE WITH
DYNAMIC LS CONTROL

CF – PRIORITY FLOW LINE
EF – SECONDARY LINE
LS – SIGNAL LINE
T – RETURN LINE

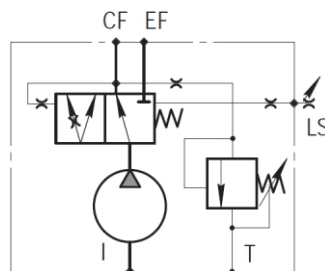
VERSION WITH VALVE IN REAR COVER



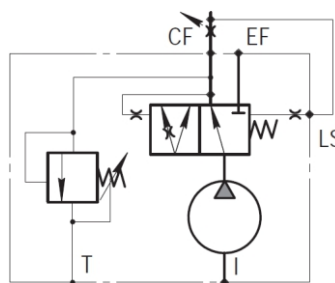
VPLRS – PRIORITY VALVE WITH A RELIEF VALVE IN THE PRIORITY LINE AND WITH OIL DRAINAGE IN THE SUCTION LINE OF THE PUMP



VPLRD – PRIORITY VALVE WITH A RELIEF VALVE IN THE PRIORITY LINE AND WITH OIL DRAINAGE IN THE TANK



VPLRST – PRIORITY VALVE WITH A RELIEF VALVE IN THE SECONDARY LINE AND WITH OIL DRAINAGE IN THE TANK

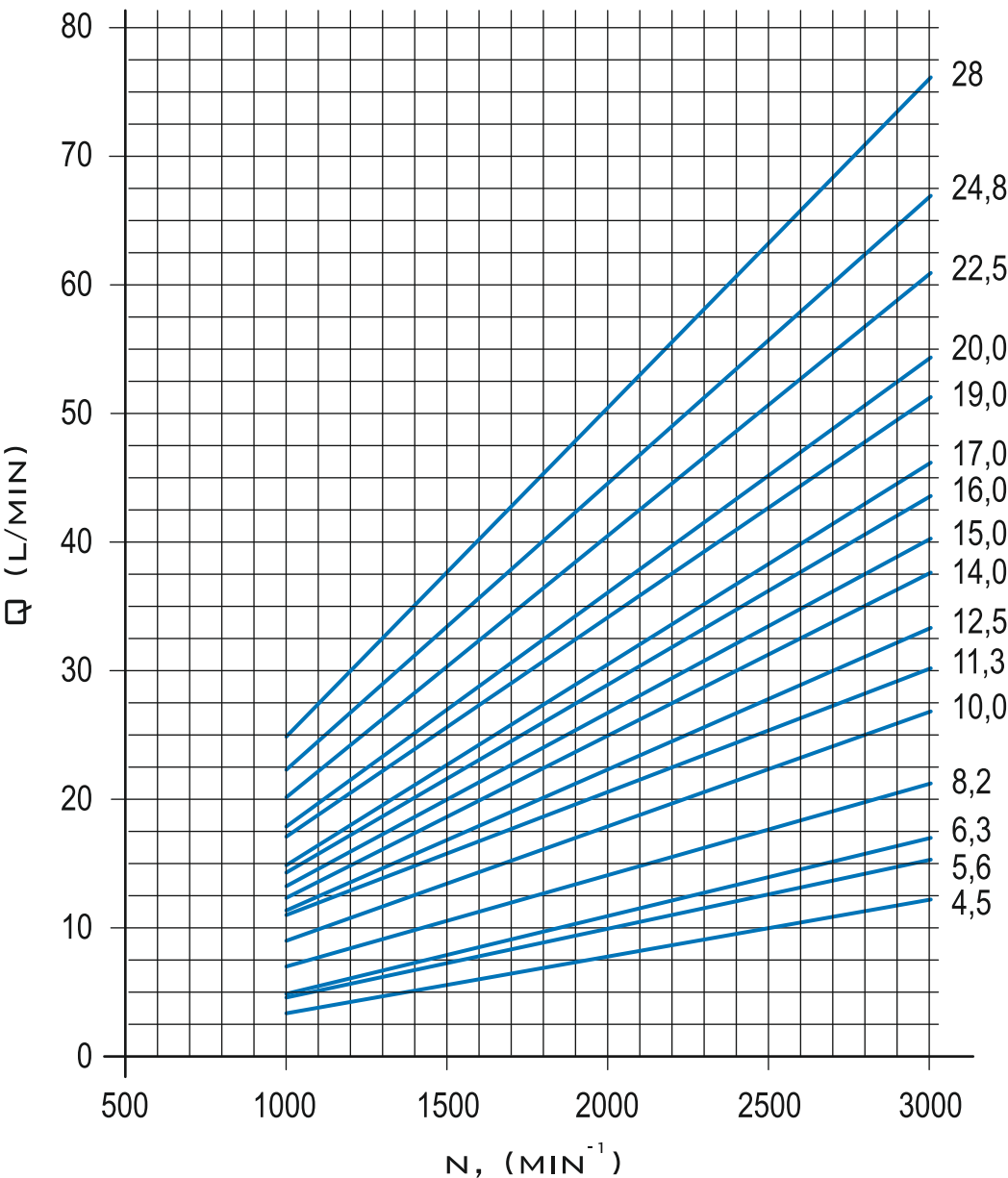


VPLRDT – PRIORITY VALVE WITH A RELIEF VALVE IN THE SECONDARY LINE AND WITH OIL DRAINAGE IN THE TANK



CHARACTERISTIC CURVES

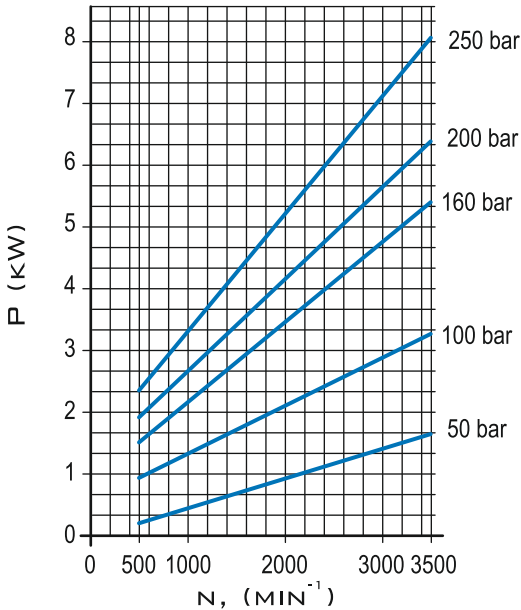
CHARACTERISTIC CURVES CARRIED OUT WITH OIL VISCOSITY AT 16 MM²/SEC,
OIL TEMPERATURE AT 60 °C AND MAX. CONTINUOUS PRESSURES FOR EACH TYPE.



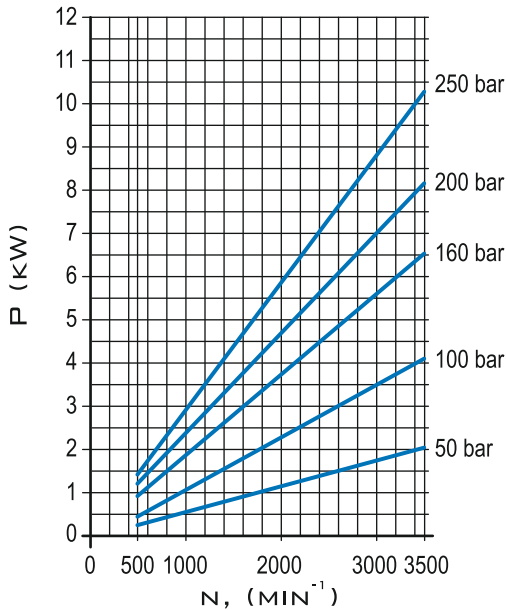
CHARACTERISTIC CURVES

CHARACTERISTIC CURVES CARRIED OUT WITH OIL VISCOSITY AT 16 MM²/SEC AND OIL TEMPERATURE AT 60 °C.

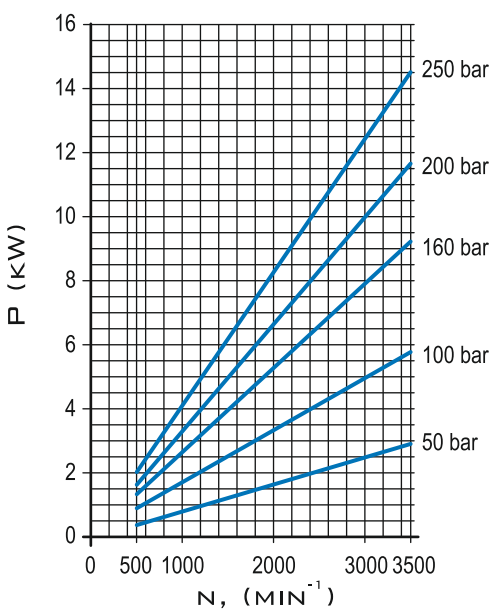
MGP2K4



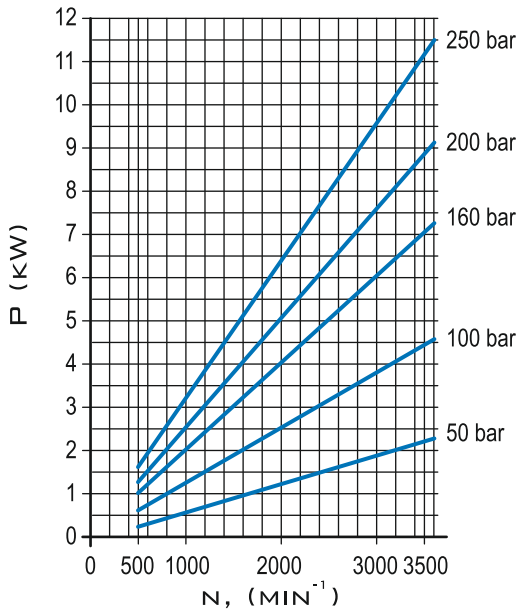
MGP2K5



MGP2K6



MGP2K8

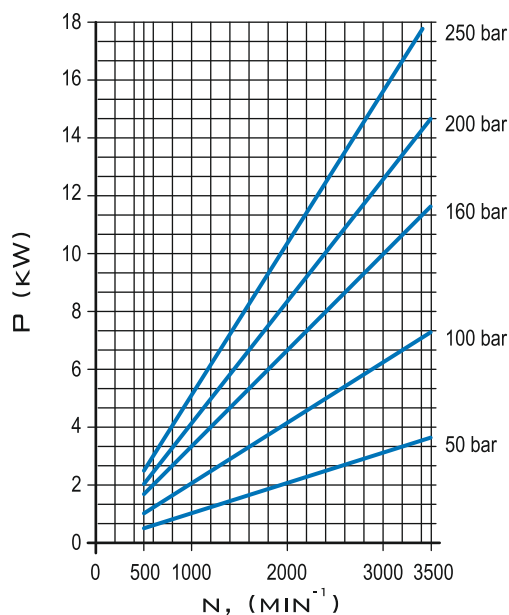




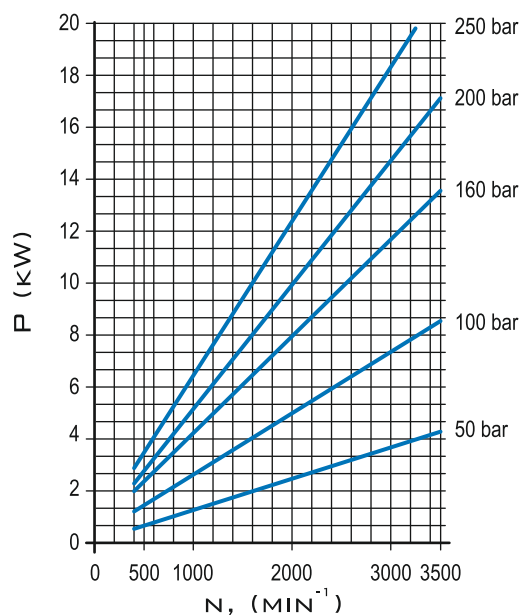
CHARACTERISTIC CURVES

CHARACTERISTIC CURVES CARRIED OUT WITH OIL VISCOSITY AT 16 MM²/SEC AND OIL TEMPERATURE AT 60 °C.

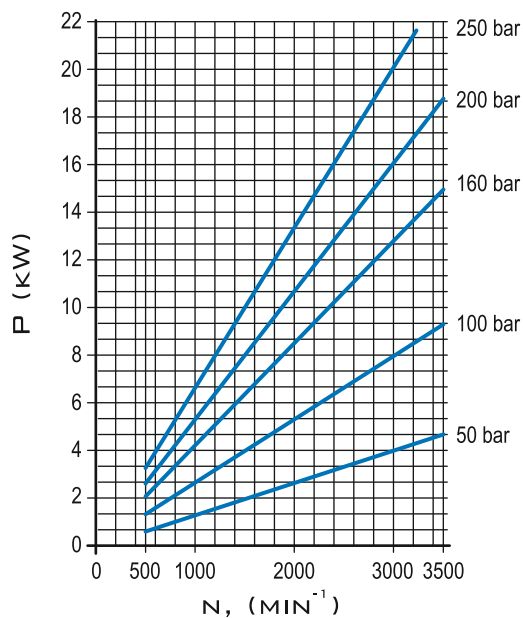
MGP2K10



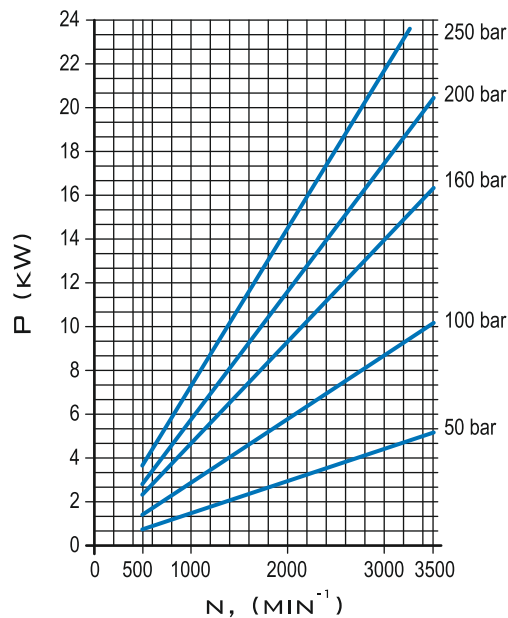
MGP2K11



MGP2K12

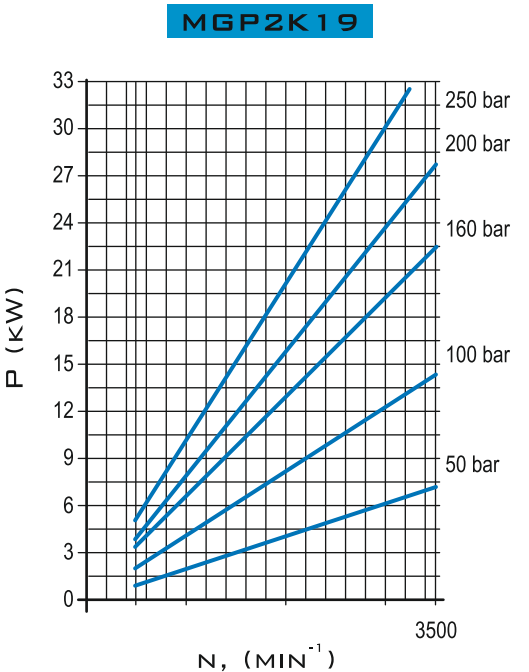
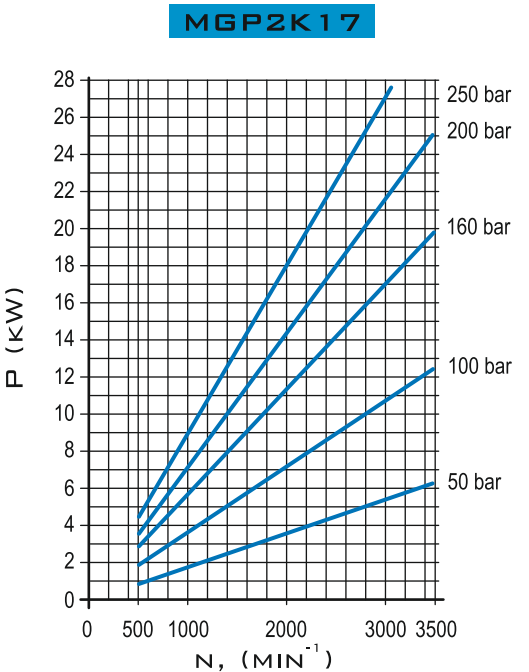
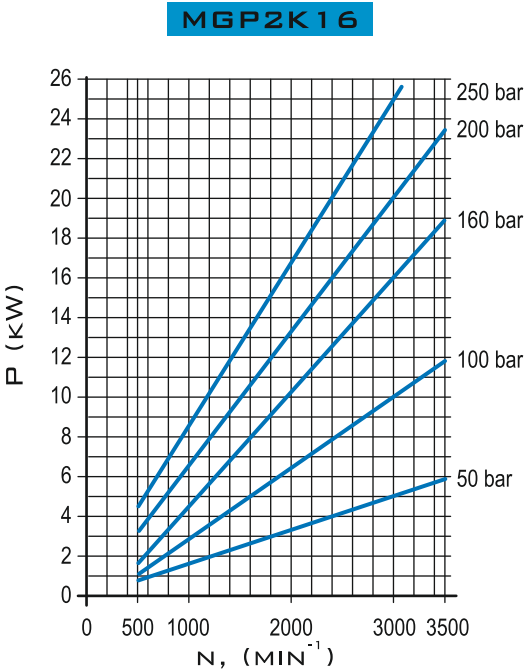
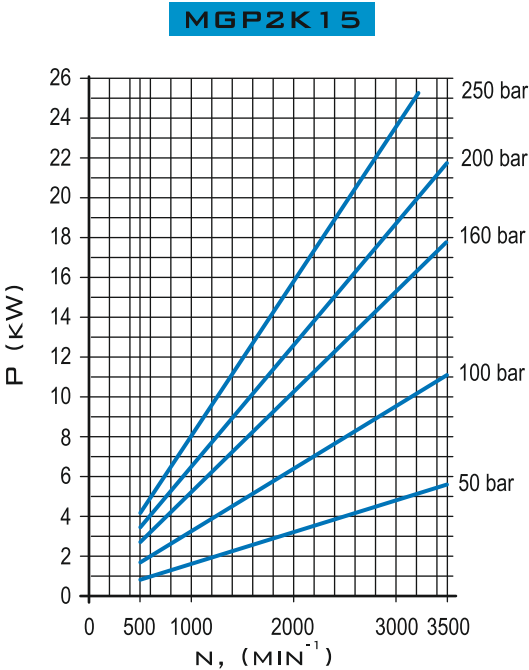


MGP2K14



CHARACTERISTIC CURVES

CHARACTERISTIC CURVES CARRIED OUT WITH OIL VISCOSITY AT 16 MM²/SEC AND OIL TEMPERATURE AT 60 °C.

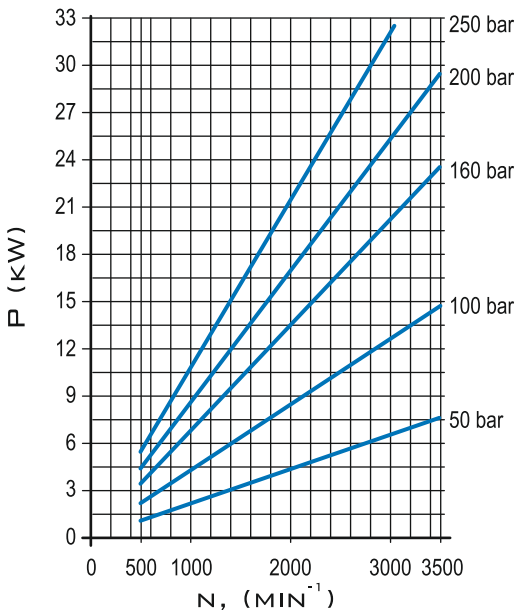




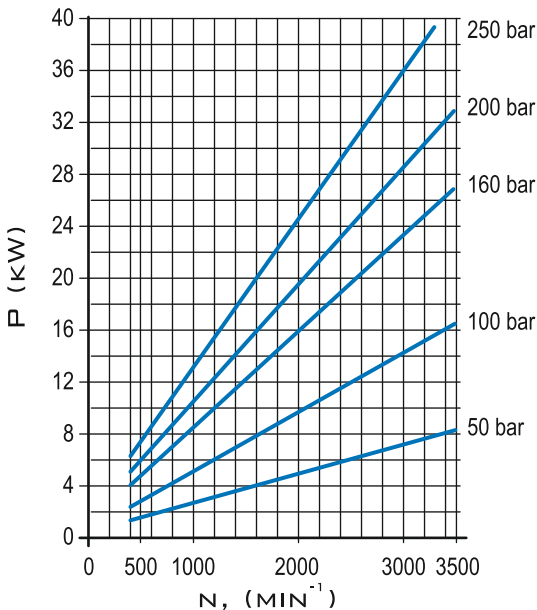
CHARACTERISTIC CURVES

CHARACTERISTIC CURVES CARRIED OUT WITH OIL VISCOSITY AT 16 MM²/SEC AND OIL TEMPERATURE AT 60 °C.

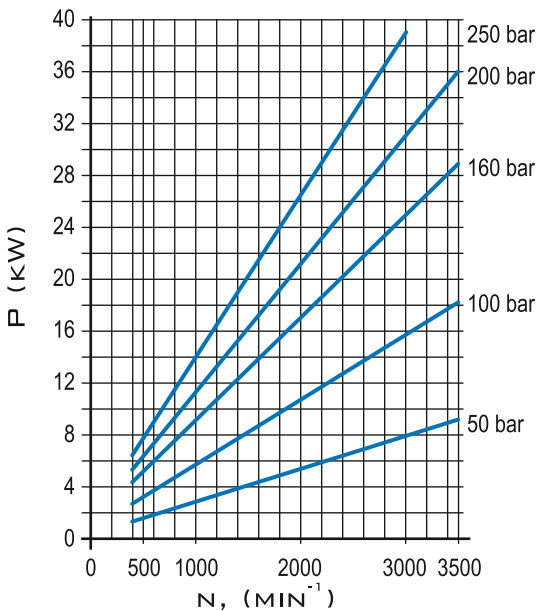
MGP2K20



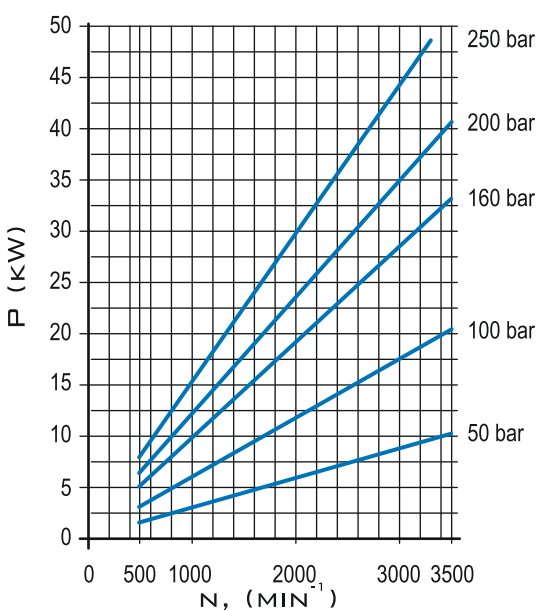
MGP2K23



MGP2K25



MGP2K28

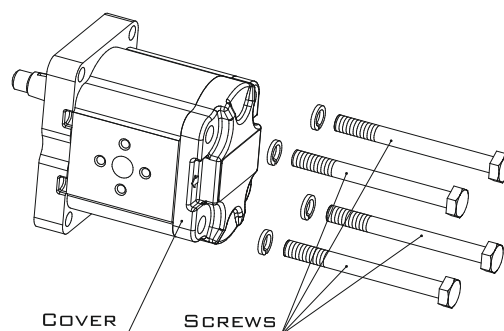


INSTRUCTIONS OF ROTATION CHANGING

PROCESS OF CHANGE DIRECTION SHOWN AT THE EXAMPLE FOR PUMP WITH CLOCKWISE ROTATION.

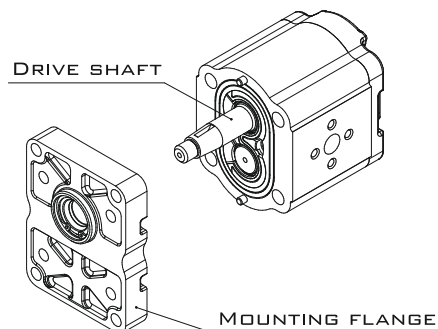
STEP 1

- UNSCREW AND REMOVE THE SCREWS COMPLETELY.
- PUT THE PUMP MOUNTING FLANGE UP.
- LUBRICATE THE DRIVE SHAFT WITH GREASE TO PREVENT DAMAGE TO THE SHAFT SEAL.



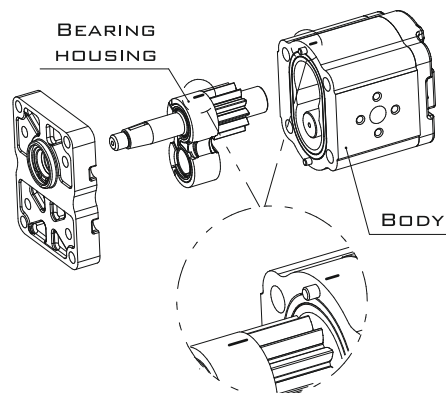
STEP 2

- REMOVE THE MOUNTING FLANGE.
- VERIFY THAT THE COMPENSATION SEAL IS CORRECTLY LOCATED IN THE BODY SEAT.



STEP 3

- MARK THE POSITION OF THE BEARING HOUSING (WITH MARKER) RELATIVE TO THE BODY.
- REMOVE THE BEARING HOUSING AND THE DRIVE SHAFT TAKING CARE TO AVOID DRIVEN SHAFT AXIAL SHIFTS.

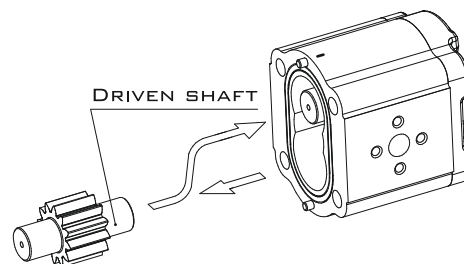


**INSTRUCTIONS OF ROTATION CHANGING**

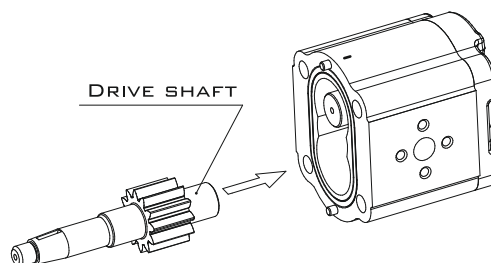
PROCESS OF CHANGE DIRECTION SHOWN AT THE EXAMPLE FOR PUMP WITH CLOCKWISE ROTATION.

STEP 4

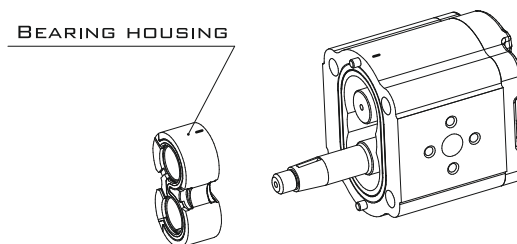
- DRAW OUT THE DRIVEN SHAFT FROM ITS HOUSING.
- RE-LOCATE THE DRIVEN SHAFT IN THE POSITION PREVIOUSLY OCCUPIED BY THE DRIVE SHAFT.

**STEP 5**

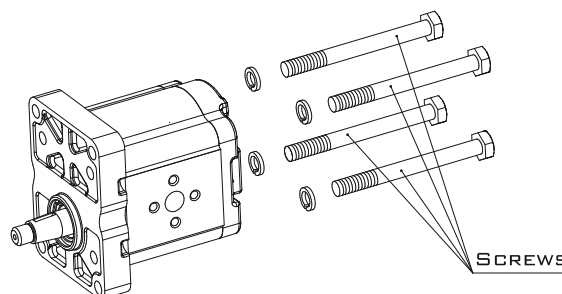
- RE-LOCATE THE DRIVE SHAFT IN THE POSITION PREVIOUSLY OCCUPIED BY THE DRIVEN SHAFT.

**STEP 6**

- REPLACE THE BEARING HOUSING TAKING CARE THAT:
- MARKS SHALL BE LOCATED AS IN THE PICTURE.
- COMPENSATION SEAL AND ANTI-EXTRUSION PLATE ARE CORRECTLY LOCATED.

**STEP 7**

- CLEAN BODY AND MOUNTING FLANGE.
- REFIT THE MOUNTING FLANGE, TURNED 180° FROM ITS ORIGINAL POSITION.
- REPLACE THE CLAMP SCREWS AND TIGHTEN (TORQUE – SEE SECTION “TECHNICAL DATA”).
- CHECK THAT THE SHAFT ROTATES FREELY.



MGP2K		POMPE AD INGRANAGGI																							
GEAR PUMPS GROUP 2																									
ORDER CODE																									
<table><tr><td>MGP</td><td>2</td><td>K</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>						MGP	2	K																	
MGP	2	K																							
GROUP 2						PORTS CF, EF, T, LS: E=METRIC THREADED F=SAE THREADED G=GAS THREADED																			
SERIES K						PRESSURE OF RELIEF VALVE: 20÷280 BAR																			
4=4,5 CM ³ /REV 5=5,6 CM ³ /REV 6=6,3 CM ³ /REV 8=8,2 CM ³ /REV 10=10 CM ³ /REV 11=11,3 CM ³ /REV 12=12,5 CM ³ /REV 14=14 CM ³ /REV 15=15 CM ³ /REV 16=16 CM ³ /REV 17=17 CM ³ /REV 19=19 CM ³ /REV 20=20 CM ³ /REV 23=22,5 CM ³ /REV 25=24,8 CM ³ /REV 28=28 CM ³ /REV						PRESSURE OF LS SIGNAL: 4=4 BAR 7=7 BAR 10=10 BAR																			
R=CLOCKWISE ROTATION L=COUNTERCLOCKWISE ROTATION						TYPE OF VALVE= SEE PAGES 15-20																			
						NO CODE=ALUMINIUM COVER F=CAST IRON COVER																			
						NO CODE=NBR SEALS V=FKM SEALS																			
DRIVE SHAFTS: B2=SAE A SPLINED (9 TEETH) B3=SAE A SPLINED (10 TEETH) B4=SAE A SPLINED (11 TEETH) F2=GERMAN TAPERED 1:5 F6=GERMAN TAPERED 1:5 G2=EUROPEAN TAPERED 1:8 G6=EUROPEAN TAPERED 1:8 H2=SAE A STRAIGHT Ø15,87 H8=SAE A STRAIGHT Ø19,05 H9=SAE A STRAIGHT Ø19,05 LENGTH K3=TANG DRIVE FOR ELECTRIC MOTORS K4=TANG DRIVE I2=DIN 5482 SPLINED (9 TEETH)						PORTS POSITION: NO CODE=SIDE INLET – SIDE OUTLET 1=BACK INLET – BACK OUTLET																			
MOUNTING FLANGES WITH BEARING SUPPORT: C3=SAE A C6=EUROPEAN C7=GERMAN Ø50 C8=GERMAN Ø50 C9=GERMAN Ø80						PORTS: B=EUROPEAN FLANGE C=GERMAN FLANGE E=METRIC THREADED F=SAE THREADED G=GAS THREADED (BSPP)																			
						MOUNTING FLANGES: 31=SAE A 2 BOLTS 32=SAE A 2 BOLTS (WITH O-RING) 61=EUROPEAN Ø7,1 62=EUROPEAN Ø9 81=GERMAN Ø80 91-92=GERMAN 2 BOLTS Ø50 93-94=GERMAN 2 BOLTS Ø52 95=GERMAN 4 BOLTS Ø52 21=MOUNTING FLANGE FOR PERKINS MOTOR																			