KLÜG
HYDRAULICS

MULTIPLIERS

www.klughydraulics.com

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KLÜG HYDRAULICS

PRODUCT INTRODUCE

Koreson gearboxes are designed for connecting pumps , motors , and other actuators .

- The gears and shafts of gearboxes are all use high strength alloy steel , they own great toughness and wear resistance through the corresponding processing and heat treatment .
- The covers and housings are made in shell-cast aluminium or cast iron , and the material density , strength and appearance are very good , you can choose the gearbox of different materials according to the power or torque you use .
- All machining parts are CNC lathe, CNC hobbing machine, CNC shaving machine, machining center and other precision machine tools for processing , They can guarantee the dimensional accuracy of each part very well .
- Other parts all meet the corresponding national standards , they have excellent performance and long service life .

ASSEMBLY AND USE INDICATIONS

Please strictly follow assembly and use indications for top performance and longer life of the gearboxes .

- Different input or output speeds can be suitable for our gearboxes , but make sure they don't go faster than 3,000 R.P.M each , because the gearbox will increase the wear and heat seriously if the rotation speed is too high , and cause parts to reduce the service life .
- The torques mentioned in the technical charts of gearboxes refer to continuous duty , and torques under intermittent working conditions can be exceeded by 20% .
- We recommend to use oil type SAE 90 to ensure longest life and proper operation of the unit , Carry out first oil change after 60 to 80 working hours , and check oil level via the oil level plug every 1500 hours .
- Continuous working temperature should not exceed 120℃ , because high temperature will accelerate the aging of seals .
- Assembly of gearbox must be performed referring to the position of the oil filing cap , oil level and oil drain plug .
- Pump assembly requires a half-coupling and a fitting flange according to specific requirements ; When ordering , please specify flange and pump shaft type ; Contact our technical staff when installing special pumps with operating features different from those stated in this catalogue .

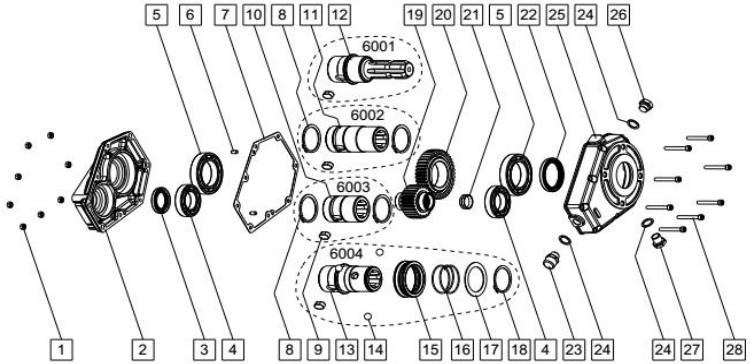
KM6001

KM6002

KM6003

KM6004

Spare parts:

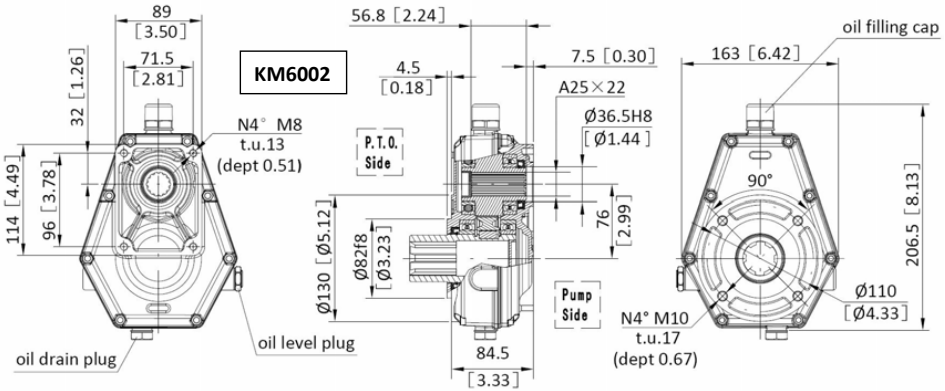


No.	Description	Quantity	No.	Description	Quantity
1	Nut M6	8	15	Spring ring	1
2	Cover	1	16	Spring	1
3	Sealing ring ϕ35×52×7	1	17	Ring	1
4	Bearing type 6007	2	18	Snap ring 48	1
5	Bearing type 6010	2	19	Pinion gear	1
6	Peg 6×12	2	20	Ring gear	1
7	Gasket	1	21	Cap DIN 470 ϕ27	1
8	Snap ring dia.50	2	22	Sealing ring ϕ50×65×8	1
9	Key 12×8	1	23	Oil filling cap 3/8”	1
10	Female 1 3/8” DIN 9611 short	1	24	Gasket	3
11	Female 1 3/8” DIN 9611	1	25	Housing	1
12	Male 1 3/8” DIN 9611	1	26	Oil drain plug 3/8”	1
13	Female 1 3/8” DIN 9611 + tightening	1	27	Oil level plug 3/8”	1
14	Ball	3	28	Socket capscrew M6×50	8

Technical sheet:

Input torque (Nm)	Output torque (Nm)	Input speed (r/min)	Transmission ratio	Output speed (r/min)	Power (Kw)	Weight (Kg)
178	119	540	1.5	810	10	5.8
152	76	540	2	1080	10	5.8
165	66	540	2.5	1350	10	5.8
180	55	540	3	1680	10	5.8
186	58	540	3.5	1836	10	5.8
159	42	540	3.8	2052	10	5.8

Three views:



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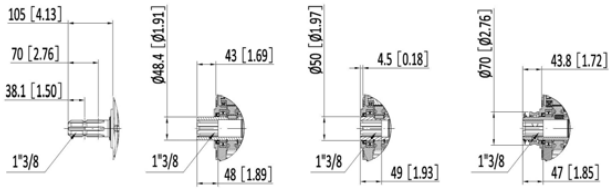
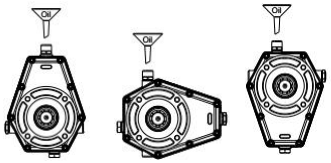


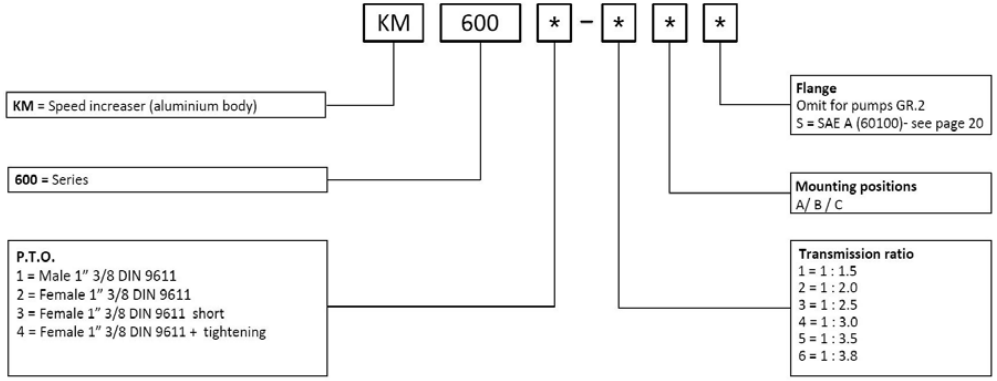
1 2 3 4

Mounting positions



A B C

How to order:



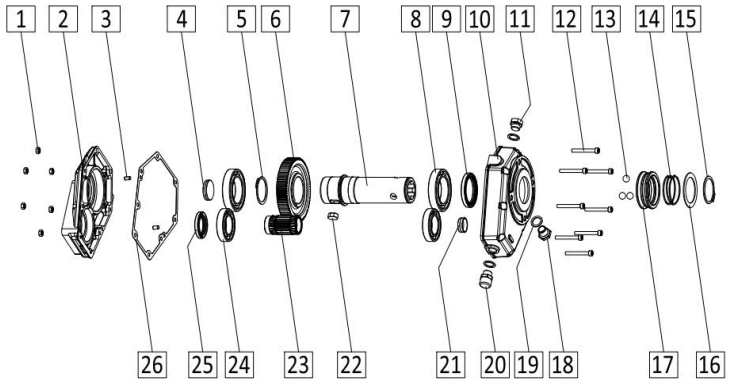
For example: KM6001-1AS

KM6101H0

KM6105P1

KM6106H0

Spare parts:

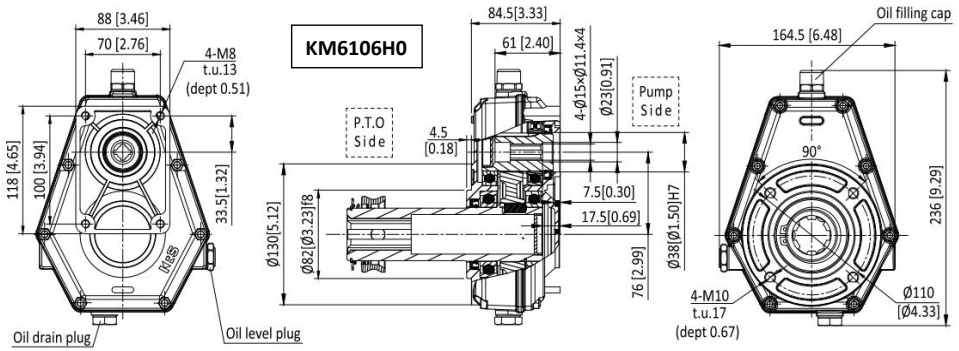


No.	Description	Quantity	No.	Description	Quantity
1	Nut M6	8	14	Spring	1
2	Cover	1	15	Snap ring	1
3	Peg 6×12	2	16	Ring	1
4	Cap DIN 470 ϕ37	2	17	Spring ring	1
5	Snap ring dia.50	2	18	Oil level plug 3/8"	1
6	Ring gear	2	19	Gasket	3
7	Shaft	1	20	Oil filling cap 3/8"	1
8	Bearing type 6010	2	21	Cap DIN 470 ϕ27	1
9	Sealing ring ϕ50×65×8	1	22	Key 12×8	1
10	Housing	1	23	Pinion gear	1
11	Oil drain plug 3/8"	1	24	Bearing type 6007	2
12	Socket cap screw M6×50	6	25	Sealing ring ϕ35×52×7	1
13	Ball	3	26	Gasket	1

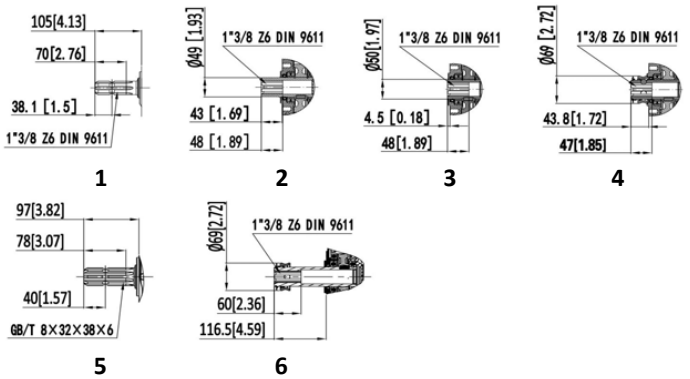
Technical sheet:

Input torque (Nm)	Output torque (Nm)	Input speed (r/min)	Transmission ratio	Output speed (r/min)	Power (Kw)	Weight (Kg)
178	119	540	1.5	810	10	5.8
152	76	540	2	1080	10	5.8
165	66	540	2.5	1350	10	5.8
180	55	540	3	1680	10	5.8
186	58	540	3.5	1836	10	5.8
159	42	540	3.8	2052	10	5.8

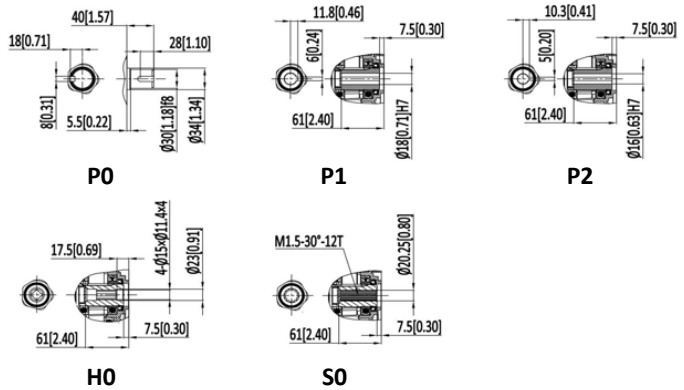
Three views:



Input shaft

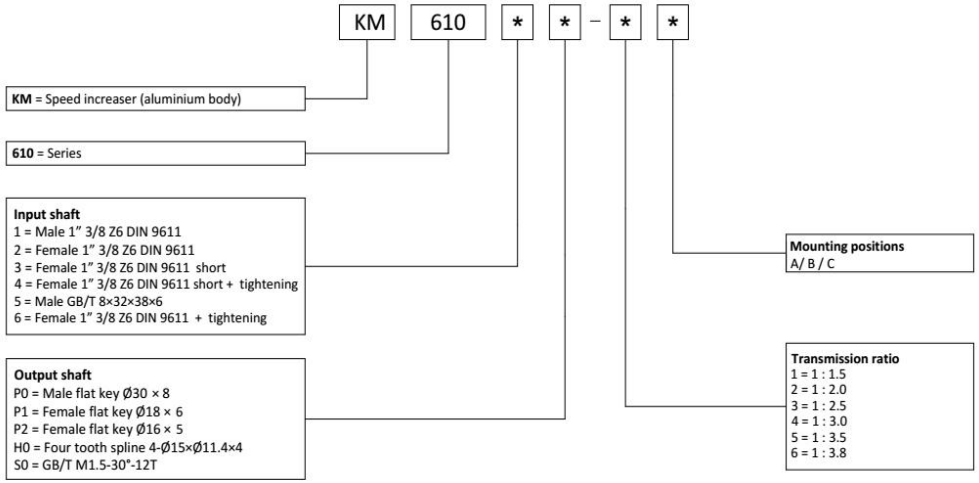


Output shaft



Mounting positions

How to order:



For example: KM6106H0-1A

Remark : We accept non-standard customization , if you have other different shafts , please contact us .

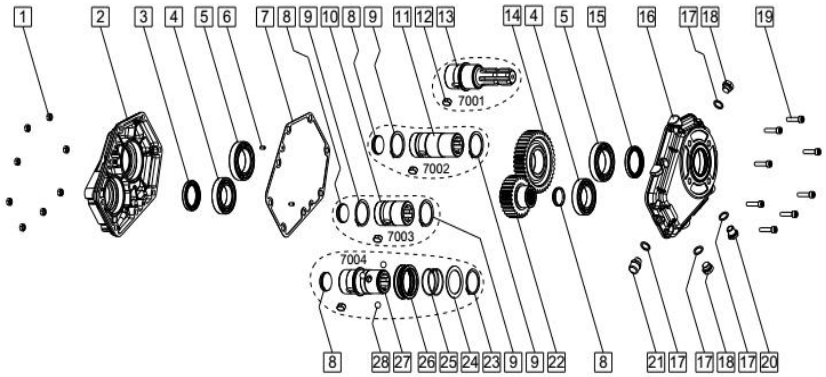
KM7001

KM7002

KM7003

KM7004

Spare parts:

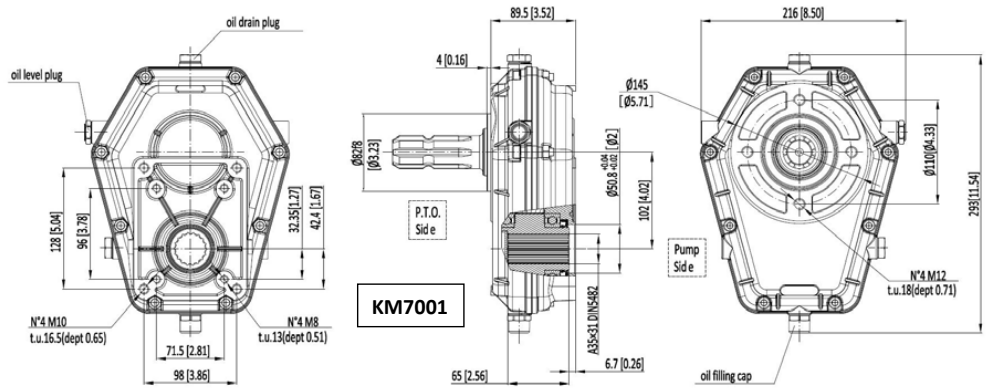


No.	Description	Quantity	No.	Description	Quantity
1	Nut M8	8	15	Sealing ring ϕ50×65×8	1
2	Cover	1	16	Housing	1
3	Sealing ring ϕ45×65×8	1	17	Gasket	4
4	Bearing type 6009	2	18	Oil drain plug 3/8”	2
5	Bearing type 6010	2	19	Socket cap screw M8×35	8
6	Peg 6×12	2	20	Oil level plug 3/8”	1
7	Gasket	1	21	Oil filling cap 3/8”	1
8	Cap DIN 470 ϕ37	1	22	Pinion gear	1
9	Snap ring dia.50	2	23	Snap ring UNI 7435-50	1
10	Female 1 3/8” DIN 9611 short	1	24	Ring	1
11	Female 1 3/8” DIN 9611 long	1	25	Spring	1
12	Key 12×25	1	26	Spring ring	1
13	Male 1 3/8” DIN 9611	1	27	Female 1 3/8” DIN 9611 + tightening	1
14	Ring gear	1	28	Ball	3

Technical sheet:

Input torque (Nm)	Output torque (Nm)	Input speed (r/min)	Transmission ratio	Output speed (r/min)	Power (Kw)	Weight (Kg)
380	260	540	1.5	810	20	8.3
430	210	540	2	1080	20	8.3
460	180	540	2.5	1350	20	8.3
490	160	540	3	1620	20	8.3
460	130	540	3.5	1836	20	8.3
437	115	540	3.8	2052	20	8.3

Three views:



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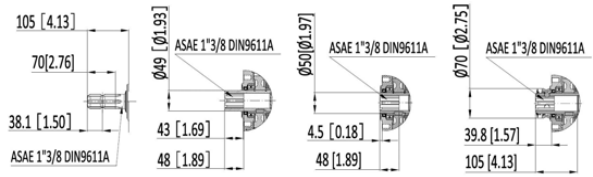
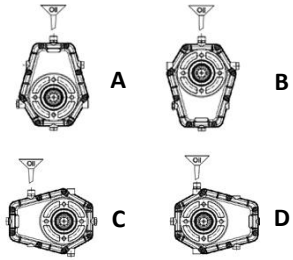
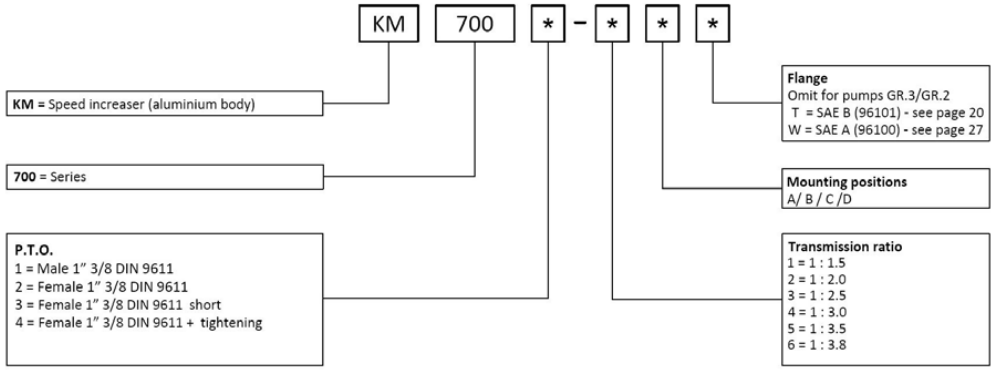


1 2 3 4

Mounting positions



How to order:



For example: KM7001-1AT

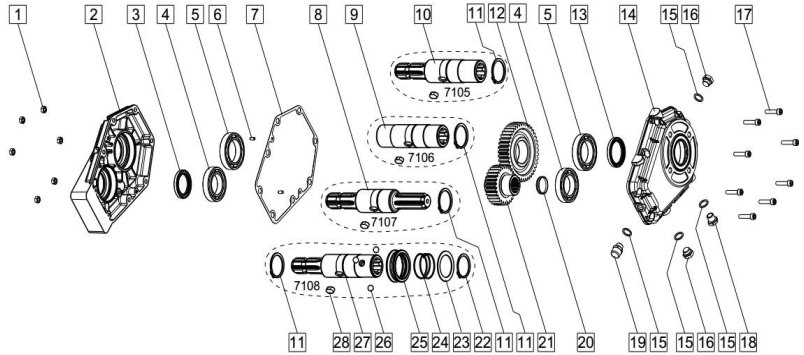
KM7105

KM7106

KM7107

KM7108

Spare parts:

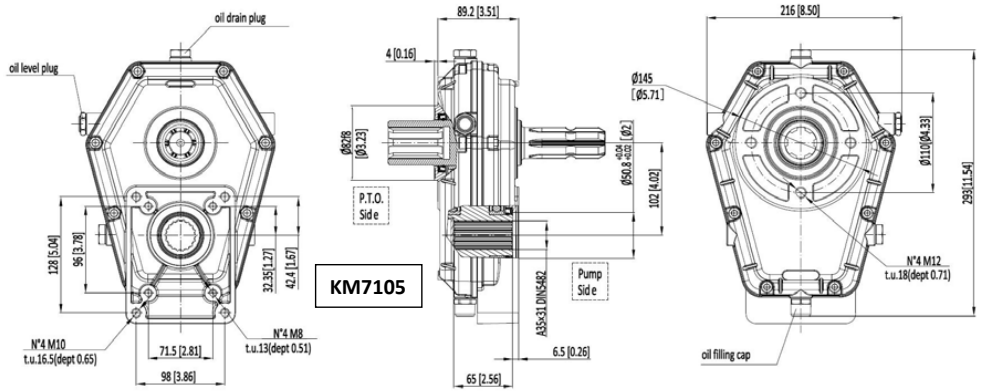


No.	Description	Quantity	No.	Description	Quantity
1	Nut M8	6	15	Gasket	4
2	Cover	1	16	Oil drain plug 3/8”	2
3	Sealing ring ϕ45×65×8	1	17	Socket cap screw M8×35	6
4	Bearing type 6009	2	18	Oil level plug 3/8”	1
5	Bearing type 6010	2	19	Oil filling cap 3/8”	1
6	Peg 6×12	2	20	Cap DIN 470 ϕ37	1
7	Gasket	1	21	Pinion gear	1
8	Male/male 1 3/8” DIN 9611	1	22	Snap ring UNI 7435-50	1
9	Female/female 1 3/8” DIN 9611	1	23	Ring	1
10	Female/male 1 3/8” DIN 9611	1	24	Spring	1
11	Snap ring dia.50	1	25	Spring ring	1
12	Ring gear	1	26	Ball	3
13	Sealing ring ϕ50×65×8	1	27	Female/male 1 3/8” DIN 9611 + tightening	1
14	Housing	1	28	Key 12×25	1

Technical sheet:

Input torque (Nm)	Output torque (Nm)	Input speed (r/min)	Transmission ratio	Output speed (r/min)	Power (Kw)	Weight (Kg)
380	260	540	1.5	810	20	9.7
430	210	540	2	1080	20	9.7
460	180	540	2.5	1350	20	9.7
490	160	540	3	1620	20	9.7
460	130	540	3.5	1836	20	9.7
437	115	540	3.8	2052	20	9.7

Three views:



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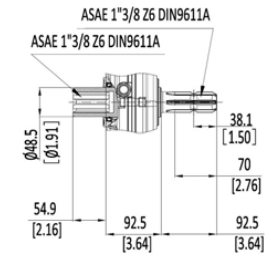

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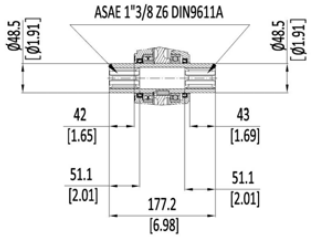

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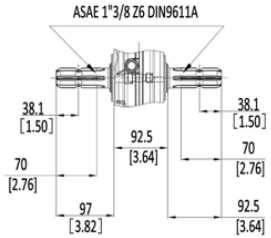

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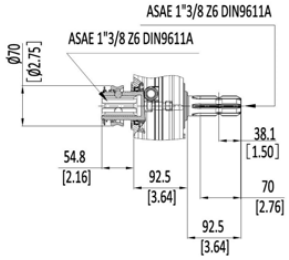

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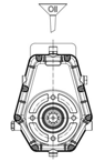
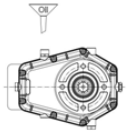
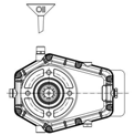
Mounting positions



A



B



C

D

How to order:

KM 710 * - * * *

KM = Speed increaser (aluminium body)

710 = Series

P.T.O.
5 = Female/Male 1" 3/8 DIN 9611
6 = Female/Female 1" 3/8 DIN 9611
7 = Male/Male 1" 3/8 DIN 9611
8 = Female/Male 1" 3/8 DIN 9611 + **tightening**

Flange
Omit for pumps GR.3/GR.2
T = SAE B (96101) - see page 20
W = SAE A (96100) - see page 27

Mounting positions
A/ B / C /D

Transmission ratio
1 = 1 : 1.5
2 = 1 : 2.0
3 = 1 : 2.5
4 = 1 : 3.0
5 = 1 : 3.5
6 = 1 : 3.8

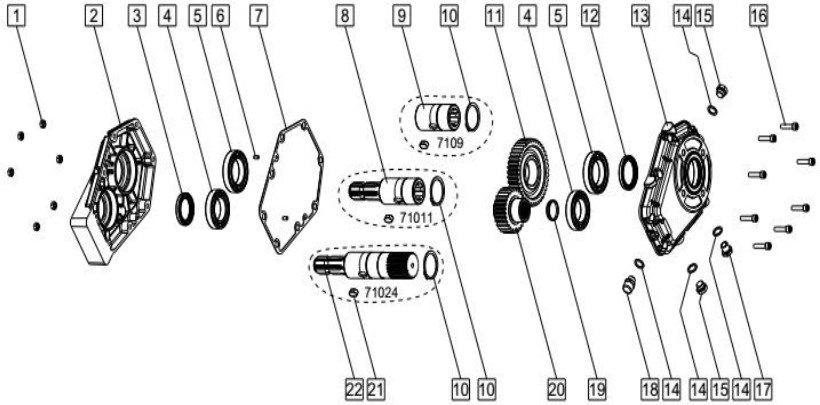
For example: KM7105-1AT

KM7109

KM71011

KM71024

Spare parts:

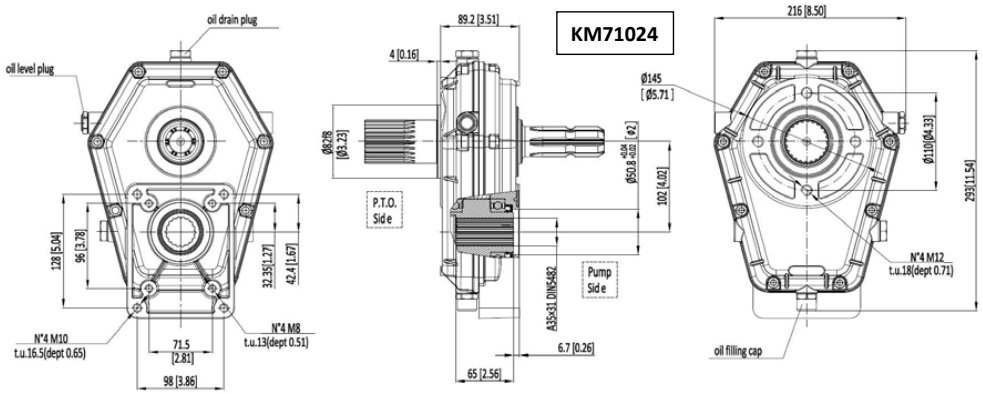


No.	Description	Quantity	No.	Description	Quantity
1	Nut M8	6	12	Sealing ring ϕ50×65×8	1
2	Cover	1	13	Housing	1
3	Sealing ring ϕ45×65×8	1	14	Gasket	4
4	Bearing type 6009	2	15	Oil drain plug 3/8"	2
5	Bearing type 6010	2	16	Socket cap screw M8×35	6
6	Peg 6×12	2	17	Oil level plug 3/8"	1
7	Gasket	1	18	Oil filling cap 3/8"	1
8	Female/female 1 3/8" DIN 9611 short	1	19	Cap DIN 470 ϕ37	1
9	Female/male 1 3/8" DIN 9611 short	1	20	Pinion gear	1
10	Snap ring dia.50	1	21	Key 12×25	1
11	Ring gear	1	22	Male 50×45 Z24 DIN 5482 + male 1 3/8" DIN 9611	1

Technical sheet:

Input torque (Nm)	Output torque (Nm)	Input speed (r/min)	Transmission ratio	Output speed (r/min)	Power (Kw)	Weight (Kg)
380	260	540	1.5	810	20	9.7
430	210	540	2	1080	20	9.7
460	180	540	2.5	1350	20	9.7
490	160	540	3	1620	20	9.7
460	130	540	3.5	1836	20	9.7
437	115	540	3.8	2052	20	9.7

Three views:



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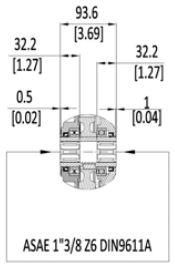

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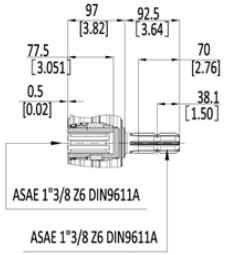

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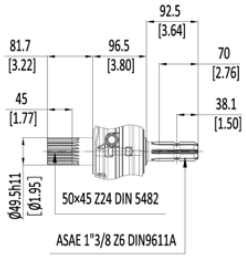

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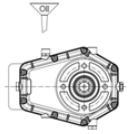
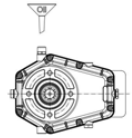
Mounting positions

A



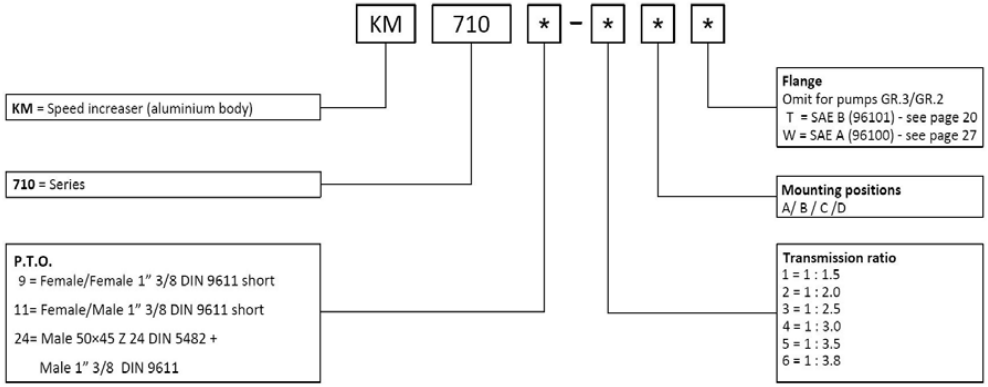
B



C

D

How to order:



For example: KM71024-1AT

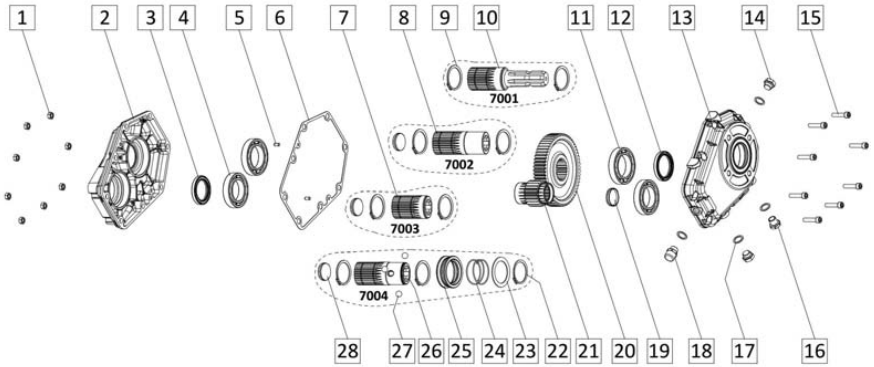
KMT7001

KMT7002

KMT7003

KMT7004

Spare parts:

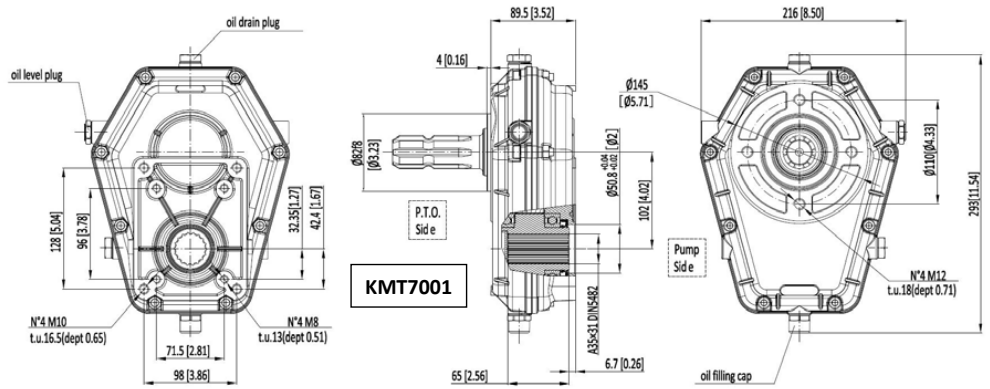


No.	Description	Quantity	No.	Description	Quantity
1	Nut M8	8	15	Socket cap screw M8×35	8
2	Cover	1	16	Oil level plug 3/8”	1
3	Sealing ring ϕ45×65×8	1	17	Gasket	4
4	Bearing type 6009	2	18	Oil filling cap 3/8”	2
5	Peg 6×12	2	19	Cap DIN 470 ϕ37	1
6	Gasket	1	20	Ring gear	1
7	Female 1 3/8” DIN 9611 short	1	21	Pinion gear	1
8	Female 1 3/8” DIN 9611 long	1	22	Snap ring UNI 7435-50	1
9	Snap ring dia.50	2	23	Ring	1
10	Male 1 3/8” DIN 9611	1	24	Spring	1
11	Bearing type 6010	2	25	Spring ring	1
12	Sealing ring ϕ50×65×8	1	26	Female 1 3/8” DIN 9611 + tightening	1
13	Housing	1	27	Ball	3
14	Oil drain plug 3/8”	2	28	Cap din	1

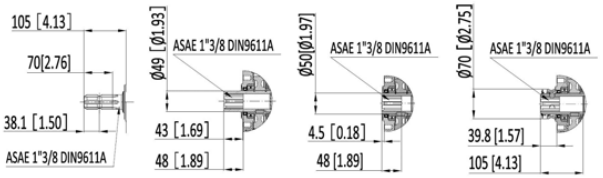
Technical sheet:

Input torque (Nm)	Output torque (Nm)	Input speed (r/min)	Transmission ratio	Output speed (r/min)	Power (Kw)	Weight (Kg)
660	440	540	1.5	810	37	16
660	330	540	2	1080	37	16
660	264	540	2.5	1350	37	16
660	220	540	3	1620	37	16
660	180	540	3.5	1836	37	16
660	166	540	3.8	2052	37	16

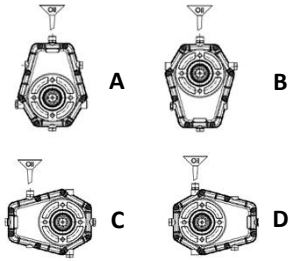
Three views:



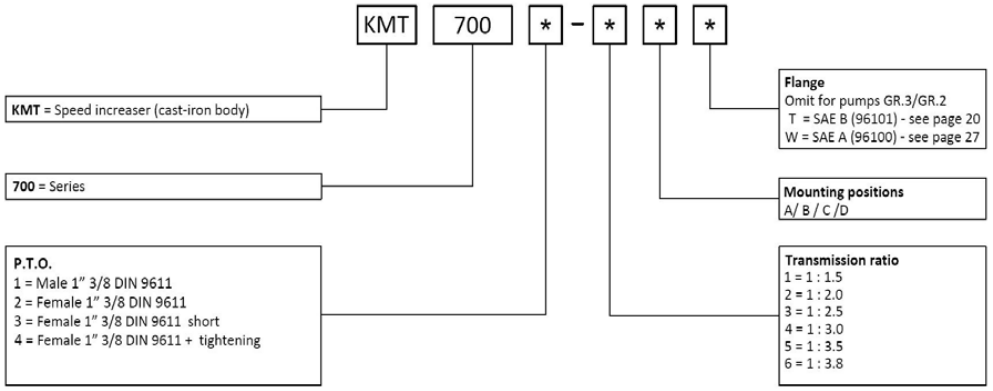
P.T.O.



Mounting positions



How to order:



For example: KMT7001-1AT

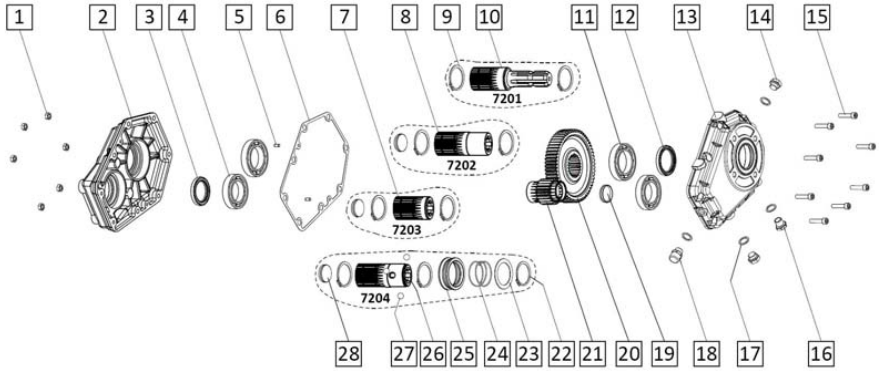
KMT7201

KMT7202

KMT7203

KMT7204

Spare parts:

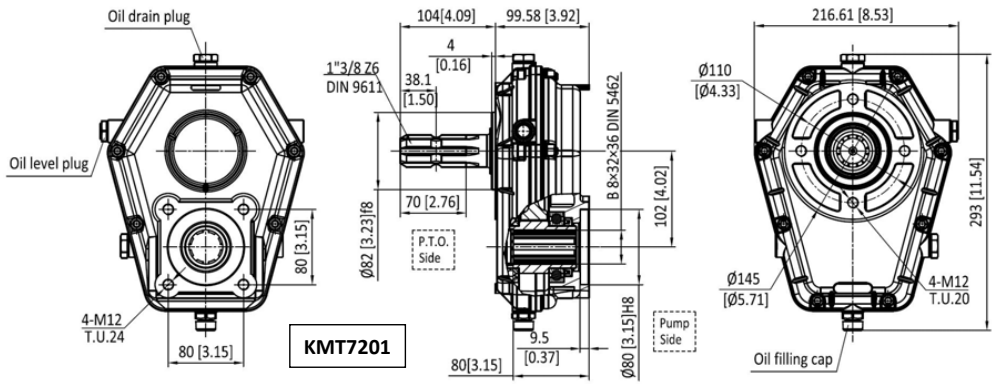


No.	Description	Quantity	No.	Description	Quantity
1	Nut M8	6	15	Socket cap screw M8	8
2	Cover	1	16	Oil level plug 3/8”	1
3	Sealing ring ϕ45×65×8	1	17	Gasket	4
4	Bearing type 6009	2	18	Oil filling cap 3/8”	2
5	Peg 6×12	2	19	Cap DIN 470 ϕ37	1
6	Gasket	1	20	Ring gear	1
7	Female 1 3/8” DIN 9611 short	1	21	Pinion gear	1
8	Female 1 3/8” DIN 9611 long	1	22	Snap ring UNI 7435-50	1
9	Snap ring dia.50	2	23	Ring	1
10	Male 1 3/8” DIN 9611	1	24	Spring	1
11	Bearing type 6010	2	25	Spring ring	1
12	Sealing ring ϕ50×65×8	1	26	Female 1 3/8” DIN 9611 + tightening	1
13	Housing	1	27	Ball	3
14	Oil drain plug 3/8”	2	28	Cap din	1

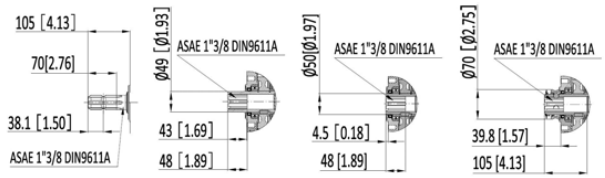
Technical sheet:

Input torque (Nm)	Output torque (Nm)	Input speed (r/min)	Transmission ratio	Output speed (r/min)	Power (Kw)	Weight (Kg)
660	440	540	1.5	810	37	16
660	330	540	2	1080	37	16
660	264	540	2.5	1350	37	16
660	220	540	3	1620	37	16
660	180	540	3.5	1836	37	16
660	166	540	3.8	2052	37	16

Three views:

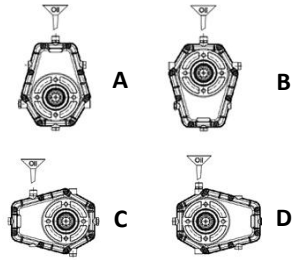


P.T.O.

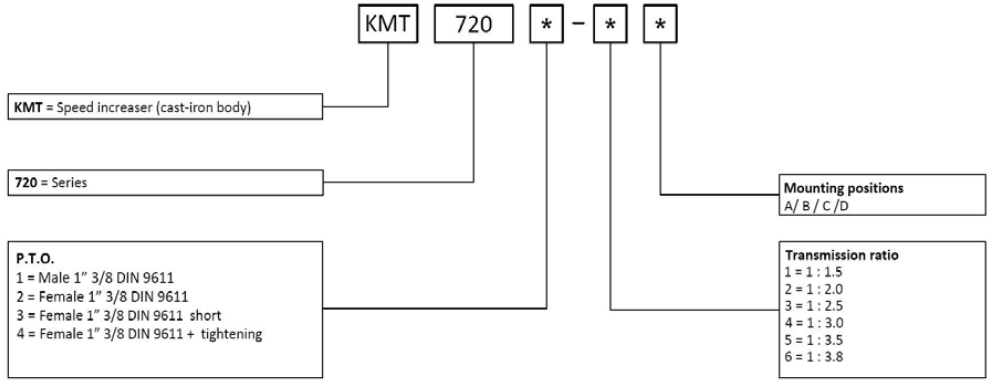


1 2 3 4

Mounting positions



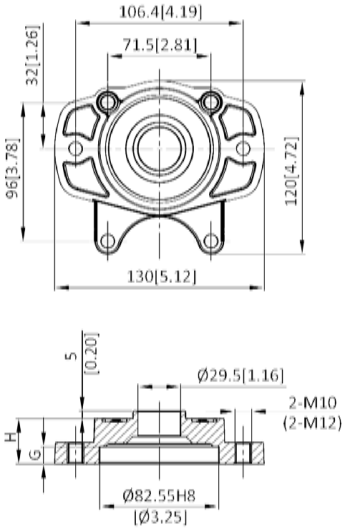
How to order:

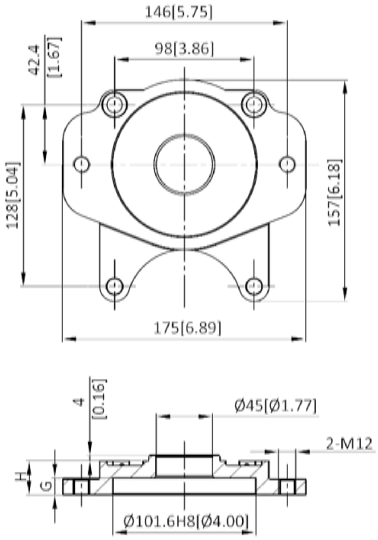


For example: KMT7201-1AT

60100

96101

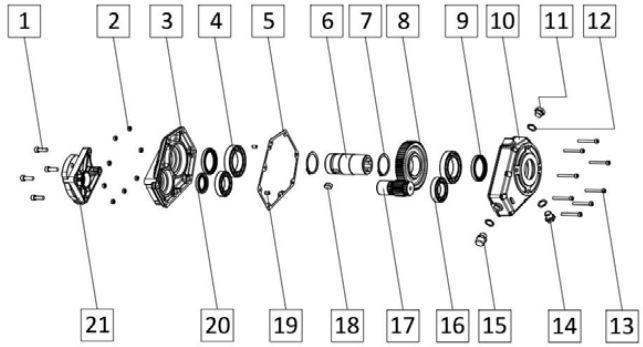




	SAE A Gr.2	SAE B Gr.3
Code	60100	96101
G	12	12
H	32	25

KR60016

Spare parts:

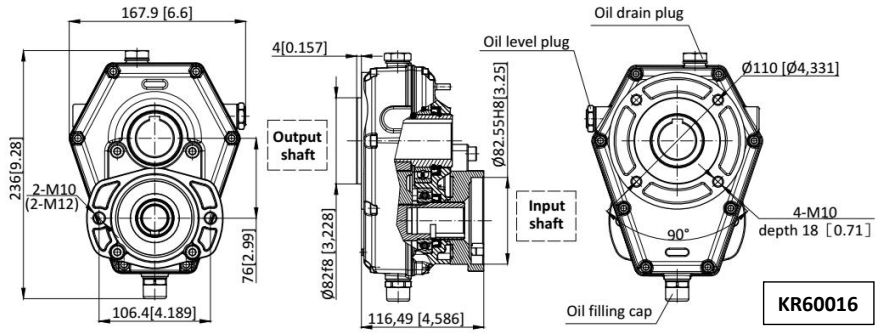


No.	Description	Quantity	No.	Description	Quantity
1	Screw M8×20	4	12	Gasket	3
2	Nut M8	8	13	Socket cap screw M8×35	8
3	Cover	1	14	Oil level plug 3/8”	1
4	Bearing type 6010	2	15	Oil filling cap 3/8”	1
5	Gasket	1	16	Bearing type 6009	2
6	Hollow shaft ϕ35	1	17	Pinion gear	1
7	Snap ring ϕ50	2	18	Key 12×8	1
8	Ring gear	1	19	Peg 6×12	2
9	Sealing ring ϕ50×65×8	2	20	Sealing ring ϕ45×65×8	1
10	Housing	1	21	Flange	1
11	Oil drain plug 3/8”	1			

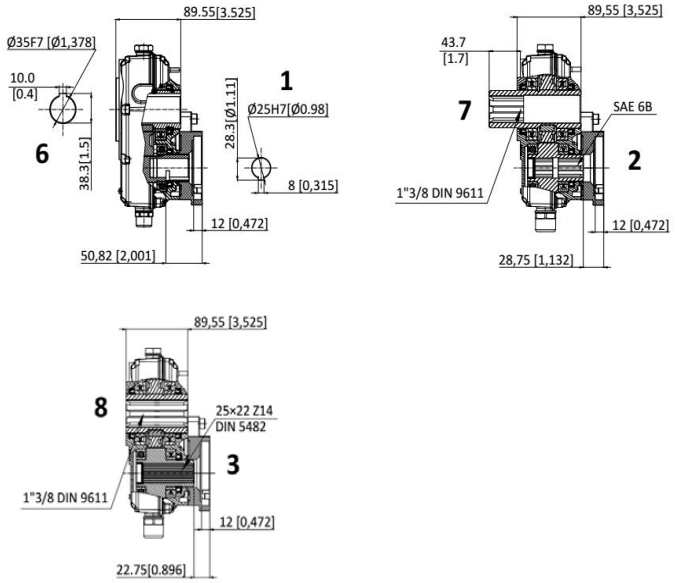
Technical sheet:

Output torque (Nm)	Input torque (Nm)	Input speed (r/min)	Transmission ratio	Output speed (r/min)	Power (Kw)	Weight (Kg)
196	130	300	1.5	200	10	6
176	88	400	2	200	10	6
192	77	500	2.5	200	10	6
200	67	600	3	200	10	6
214	63	700	3.5	200	10	6
186	49	760	3.8	200	10	6

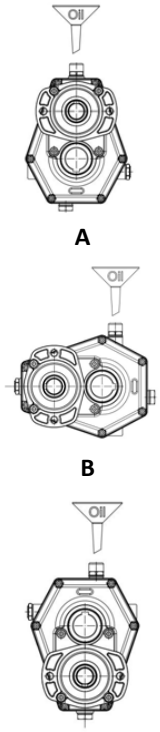
Three views:



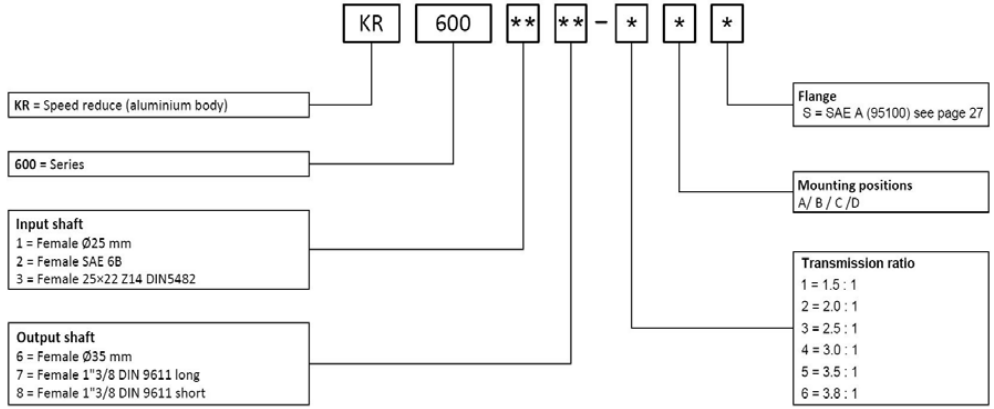
Shaft



Mounting positions



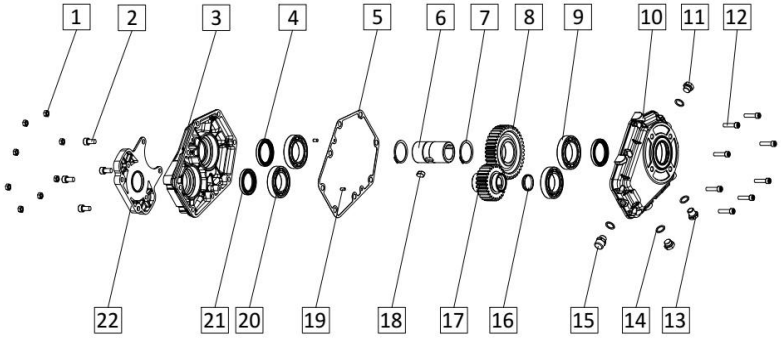
How to order:



For example: KR60016-1AS

KR70016

Spare parts:

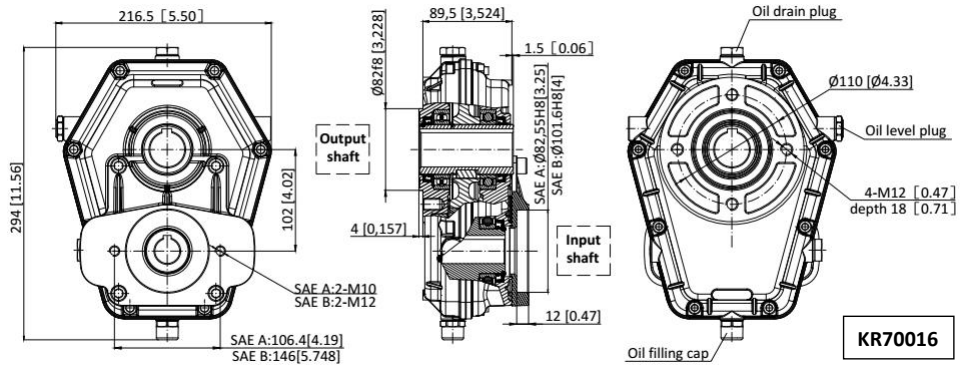


No.	Description	Quantity	No.	Description	Quantity
1	Nut M8	8	12	Socket cap screw M8×70	8
2	Screw M8×20	4	13	Oil level plug 3/8″	1
3	Cover	1	14	Gasket	4
4	Sealing ring ϕ50×65×8	2	15	Oil filling cap 3/8″	1
5	Gasket	1	16	Cap din 470 ϕ37	1
6	Hollow shaft ϕ35	1	17	Pinion gear	1
7	Snap ring ϕ50	2	18	Key 12×25	1
8	Ring gear	1	19	Peg 6×12	2
9	Bearing type 6010	2	20	Bearing type 6009	2
10	Housing	1	21	Sealing ring ϕ45×65×8	1
11	Oil drain plug 3/8″	1	22	Flange	1

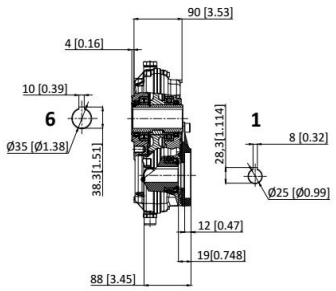
Technical sheet:

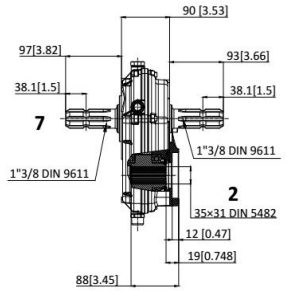
Output torque (Nm)	Input torque (Nm)	Input speed (r/min)	Transmission ratio	Output speed (r/min)	Power (Kw)	Weight (Kg)
480	320	300	1.5	200	20	8.7
485	240	400	2	200	20	8.7
520	210	500	2.5	200	20	8.7
570	190	600	3	200	20	8.7
530	150	700	3.5	200	20	8.7
525	140	760	3.8	200	20	8.7

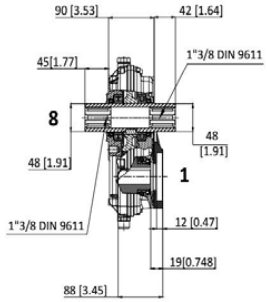
Three views:



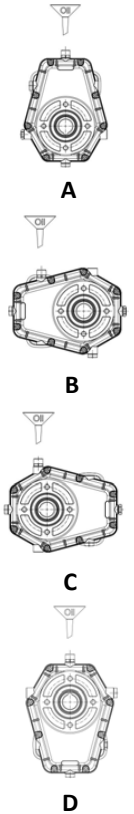
Shaft



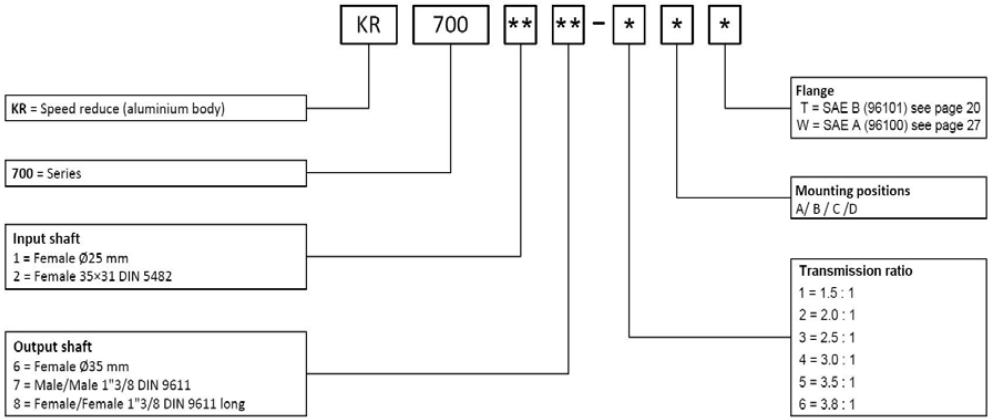




Mounting positions



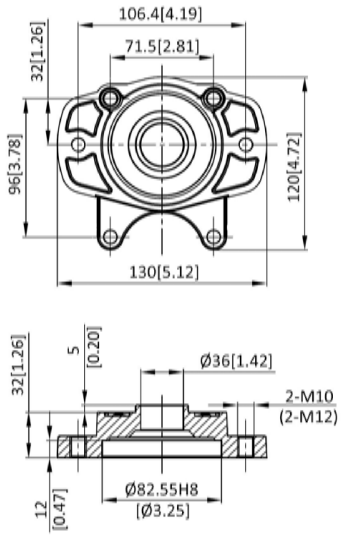
How to order:

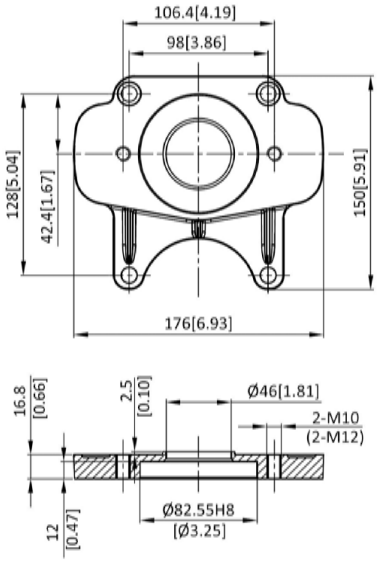


For example: KR70016-1AT

95100

96100





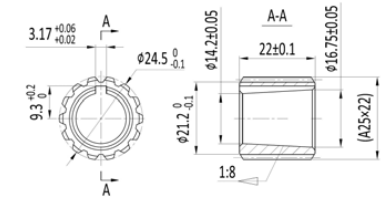
Code	95100	96100
Application	SAE A for 600 series gear box and Gr.2	SAE A for 700/710 series gear box and Gr.2

10005

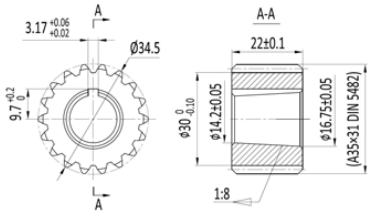
10012

10014

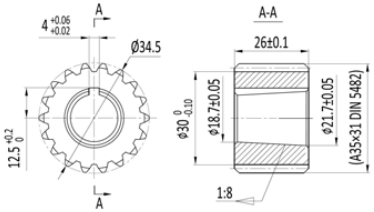
35505



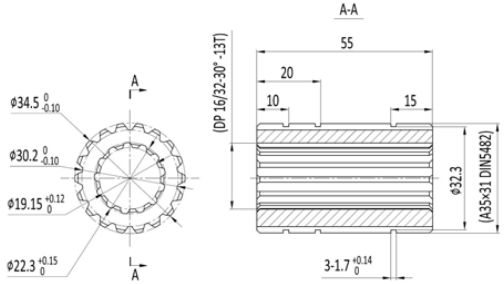
10005



10012



10014

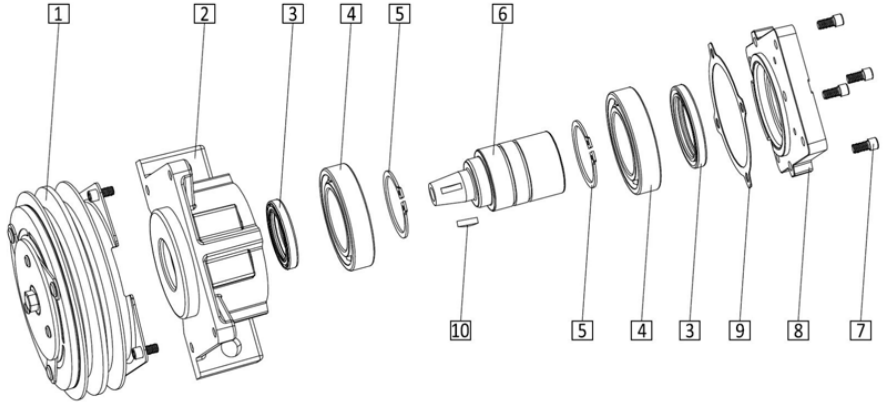


35505

Code	10005	10012	10014	35505
Application	For 600 series gear box and Gr.2	For 700/710 series gear box and Gr.2	For 700/710 series gear box and Gr.3	For 700/710 series gear box and Gr.3

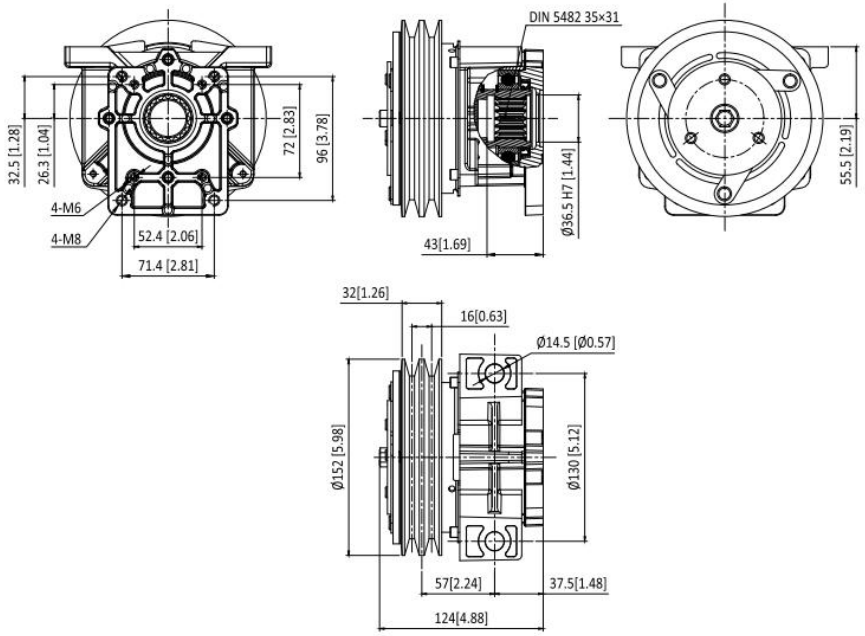
KRS30901

Spare parts:



No.	Description	Quantity	No.	Description	Quantity
1	Electric clutch	1	6	Shaft	1
2	Housing	1	7	Gasket	1
3	Sealing ring	2	8	Flange for pump	1
4	Bearing	2	9	Socket cap screw	4
5	Snap ring	2	10	Woodruff key	1

Three views:

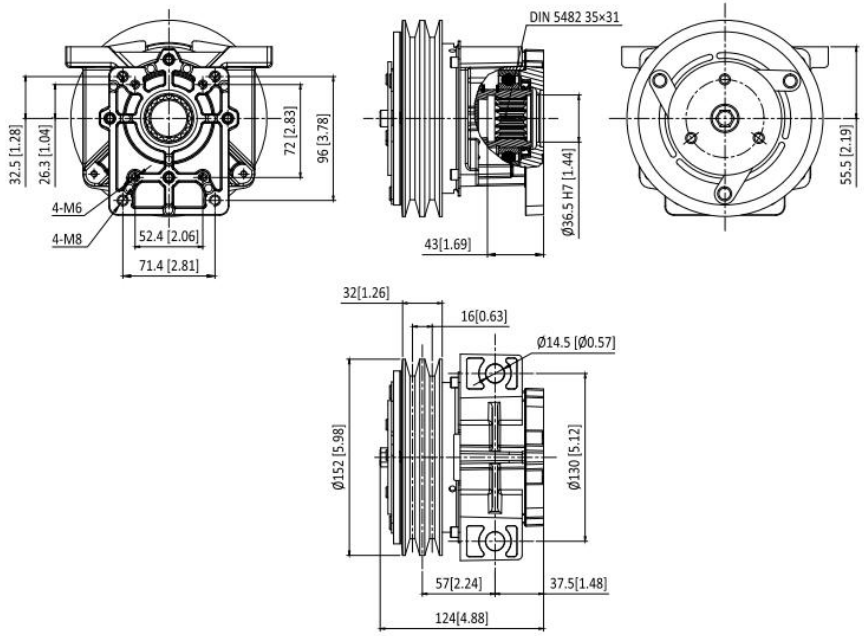


Technical sheet:

Nominal torque	78Nm		**Connection time**	25 m/sec
Static torque	125Nm		**Disconnection time**	40 m/sec
Dynamic torque	85Nm	At 500 rpm	**Minimum time between two connection**	20 sec
	70Nm	At 1000 rpm		
	42Nm	At 1500 rpm		
	35Nm	At 2000 rpm		
	27Nm	At 2500 rpm	**Max. speed**	5000 rpm
	25Nm	At 3000 rpm	**Weight**	5.0 Kg

Type	Electric absorption	Resistance(Ω)		Current(A)		Power(W)	
		20℃	120℃	20℃	120℃	20℃	120℃
KRS30901	12 V DC	4	5.6	3.33	2	40	24
KRS30903	24 V DC	20	28	1.26	0.77	30.3	18.18
All technical data at 20℃/at 120℃ the performance are less 20% , all electromagnetic clutches are reversible .							

Three views:



Technical sheet:

Nominal torque	118Nm		**Connection time**	25 m/sec
Static torque	140Nm		**Disconnection time**	40 m/sec
Dynamic torque	125Nm	At 500 rpm	**Minimum time between two connection**	20 sec
	110Nm	At 1000 rpm		
	82Nm	At 1500 rpm		
	75Nm	At 2000 rpm		
	67Nm	At 2500 rpm	**Max. speed**	5000 rpm
	65Nm	At 3000 rpm	**Weight**	5.6 Kg

Type	Electric absorption	Resistance(Ω)		Current(A)		Power(W)	
		20℃	120℃	20℃	120℃	20℃	120℃
KRS30929	12 V DC	4	5.6	3.33	2	40	24
KRS30930	24 V DC	20	28	1.26	0.77	30.3	18.18
All technical data at 20℃/at 120℃ the performance are less 20% , all electromagnetic clutches are reversible .							

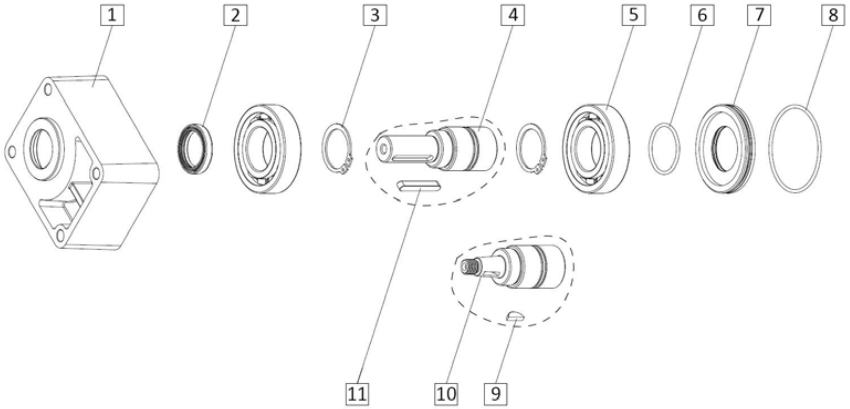
KS25402

KS25602

KS25403

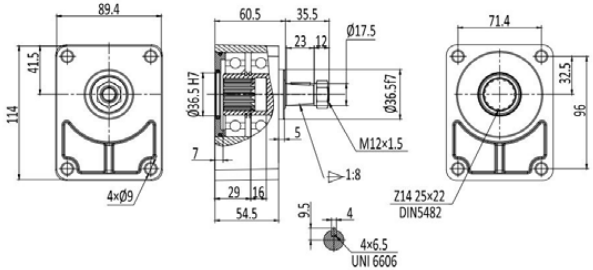
KS25603

Spare parts:



No.	Description	Quantity	No.	Description	Quantity
1	Housing	1	7	End cover	1
2	Sealing ring	2	8	O-ring	1
3	Snap ring	2	9	Woodruff key	1
4	Flat key shaft	1	10	Taper shaft	1
5	Bearing	2	11	Flat key	1
6	O-ring	1			

Three views:



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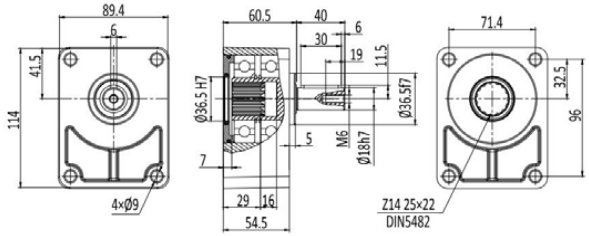

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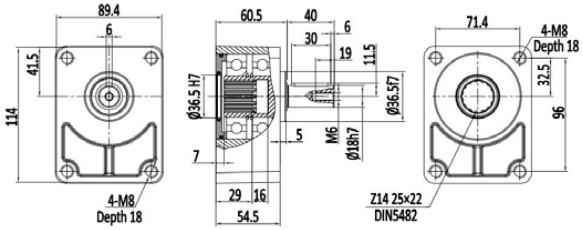

KS25602-1

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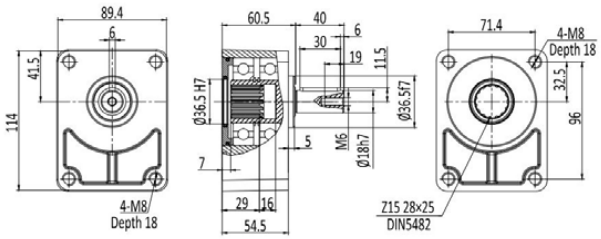

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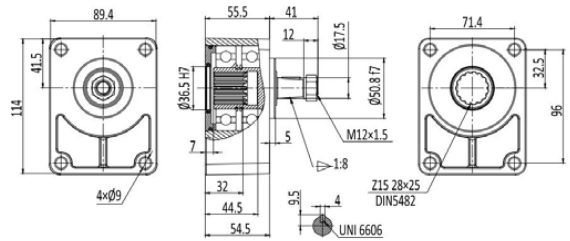

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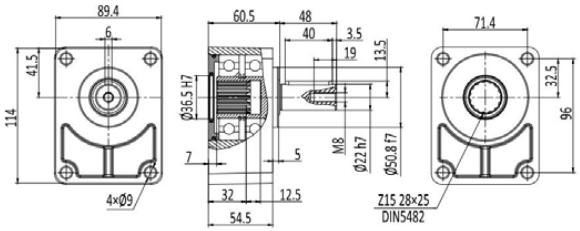
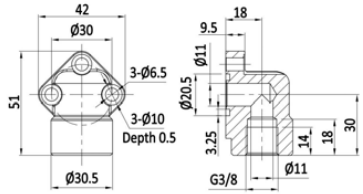


KS25603

KPA1-038

KPA2-012

KPA3-100



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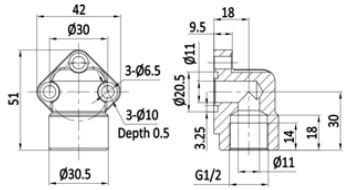

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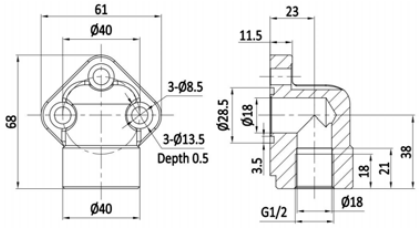

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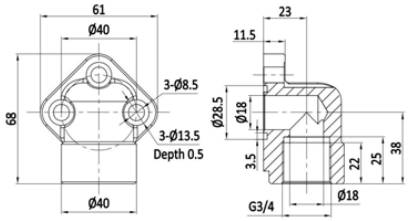

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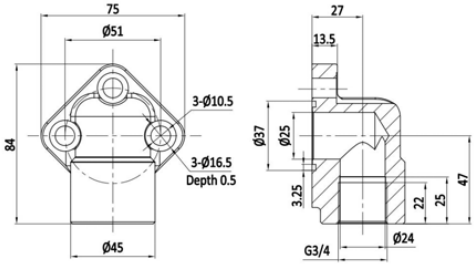
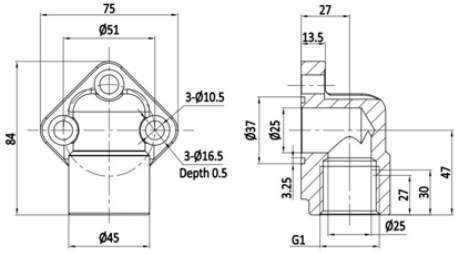


KPA3-034



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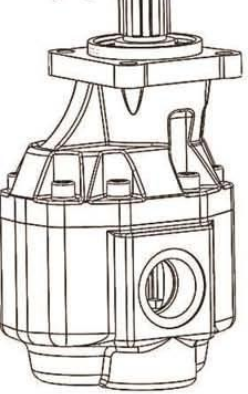
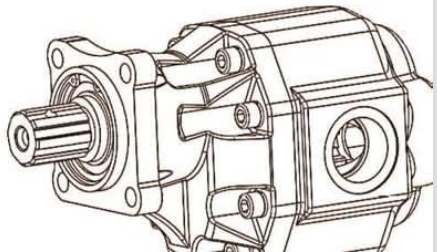


CAST-IRON GEAR PUMP

KLÜG HYDRAULICS



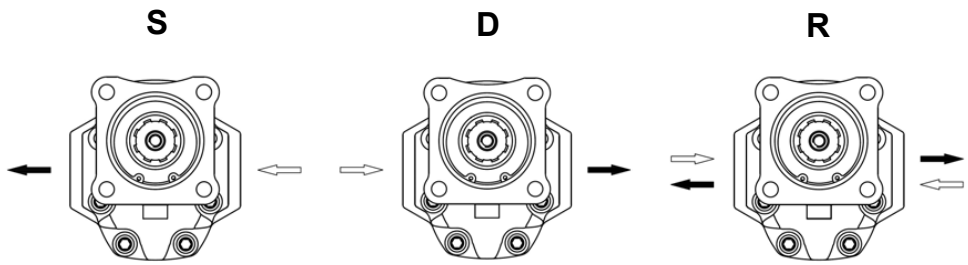
INSTALLATION NOTES

Before starting the system on a continuous basis , we suggest to adopt as follows simple precautions .

- Check for the direction of rotation of the pump to be consistent with the drive shaft one , be sure no reversion revolved .
- Check for the proper alignment of pump shaft and motor shaft , it is necessary that the connection does not induce axial or radial loads .
- Check if contact area between seal ring and shaft is clean , remove all dirt , chips and all foreign Bodies form flanges connecting inlet and delivery ports , dust could provoke quicker wear and leakage .
- Ensure that intake and return pipes ends are always below fluid level and as far from each other as Possible .
- Fill the pump with fluid , and turn it by hand .
- Disconnect pump drain during start up to bleed air off the circuit .
- Always avoid or limit load starting for pump longer life .

RATATION DIRECTION

Definition of rotation direction : when standing before the pump with driving shaft up with its projecting end towards the observer , the pump is rotating clockwise in case of right-hand rotation “C” , The contrary will happen with left-hand pumps “S” , keeping the same point of view .



S=Anti-clockwise D=Clockwise R=Reversible

INLET PRESSURE

Under standard working conditions , intake pipe pressure is lower than atmospheric pressure . the operating inlet pressure should range between 0.7 and 3 bars (absolute) .

HYDRAULIC FLUIDS

Use specific mineral oil based hydraulic fluids having good antioxidant , anti-foaming (rapid deaeration) , anti-wear , anti--corrosion , and lubricating properties , Fluids should also comply with DIN 51525 and VDMA 24317 standards and get through 11th stage of FZG test .
For the standard models , the temperature of the fluid should range between -10℃ and 80℃ .
Fluid kinematic viscosity ranges are the following :

Allowed range	6～500cSt
Recommended range	10～100cSt
Value allowed at startup	～2000cSt

FILTER RECOMMENDATION

It is widely known that most pumps early failures are due to contaminated fluids , As a warranty can't be issued for dirt-related wear , we recommend a filter to be used , which can reduce the degree of contamination to a permissible dimension in terms of the size and concentration of dirt particles .
The filtering system shall always ensure contamination levels not exceeding the values indicated below .

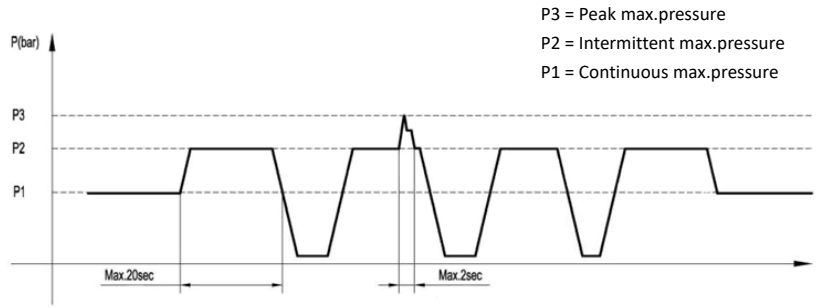
Pressure	<140 bar	140～210 bar	>210 bar
NAS 1638 Class	10	9	8
ISO 4406 Class	19/16	18/15	17/14
Ratio βx=75	25～40 mμ	12～15 mμ	6～12 mμ

INLET AND DELIVERY LINES

Hydraulic system pipes should show no sudden changes of direction , sharp bends and sudden differences in cross-section .
They should not be too long or out of proportion .
Pipe cross-section should be sized so that fluid velocity does not exceed recommended values .
It is advisable to carefully consider the possible diameter reduction of the inlet or outlet pipes fitted on flange fittings .
Reference values are the following .

Intake line	0.5～1.6 m/s
Delivery line	2～6 m/s
Return line	1.6～3 m/s

PRESSURE DEFINITION



DESIGN CALCULATIONS FOR PUMP

Flow	Q	L/min
Torque	M	Nm
Power	P	kW
Speed	n	r/min
Pressure	△P	bar
Displacement	V	cm^3 /rev

Volumetric efficiency	ηv	≈0.92
Mechanical efficiency	ηhm	≈0.85
Total efficiency	ηt = ηv • ηhm	≈0.80

$Q = V \cdot n \cdot \eta v \cdot 10^{-3}$ [L/min]
$M = (\triangle P \cdot V)/(62.83 \cdot \eta hm)$ [Nm]
$P = (\triangle P \cdot Q)/(612 \cdot \eta t)$ [kW]

HOW TO ORDER

KBLH	Rotation	Size	Front cover	Shaft	Ports	Seals	Ports position
Series	D Clockwise	20	F1	H0	L0	Omit	A0
	S Anti-clockwise	30	F3	H1	L1	HS	A1
	R Reversible	40		H8		CS	A2
		50		S0		MS	A3
		63		S1		PS	B0
		80		S2			B1
		82					B2
							B3
							C0

Seals

Omit - Range between -10℃and +80℃， inlet pressure up to max. 3 bar absolute (standard seal) .

HS - Version suitable for fluid at hi-temperatures , range between -10℃and +120℃ .

CS - Version suitable for fluid at low-temperatures , range between -40℃and +80℃ .

MS - Version suitable for inlet pressure up to max. 3 and 6 bar absolute .

PS - Version suitable for inlet pressure up to max. 3 and 10 bar absolute .

Ports position

A0 - Two ports , one side inlet and one side outlet .

A1 - Two ports , one side inlet and one back outlet .

A2 - Two ports , one back inlet and one side outlet .

A3 - Two ports , one back inlet and one back outlet .

B0 - Three ports , one side inlet , one side outlet and one back outlet .

B1 - Three ports , one side inlet , one back inlet and one side outlet .

B2 - Three ports , one side inlet , one back inlet and one back outlet .

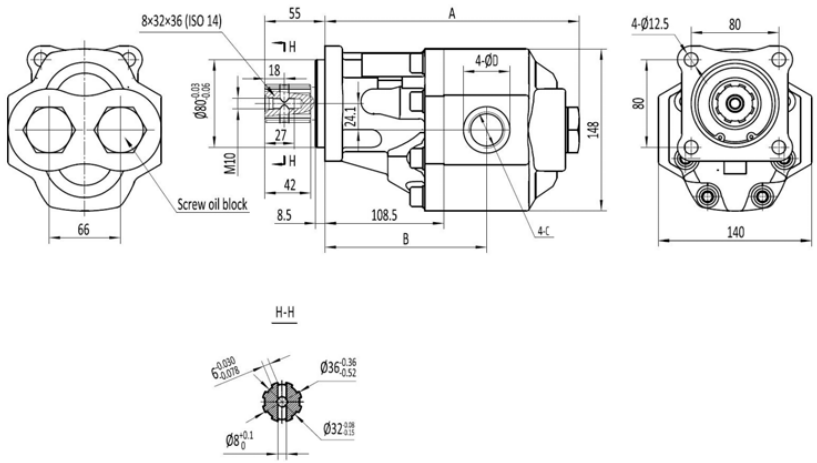
B3 - Three ports , one back inlet , one side outlet and one back outlet .

C0 - Four ports , one side inlet ,one back inlet ,one side outlet and one back outlet .

Examples

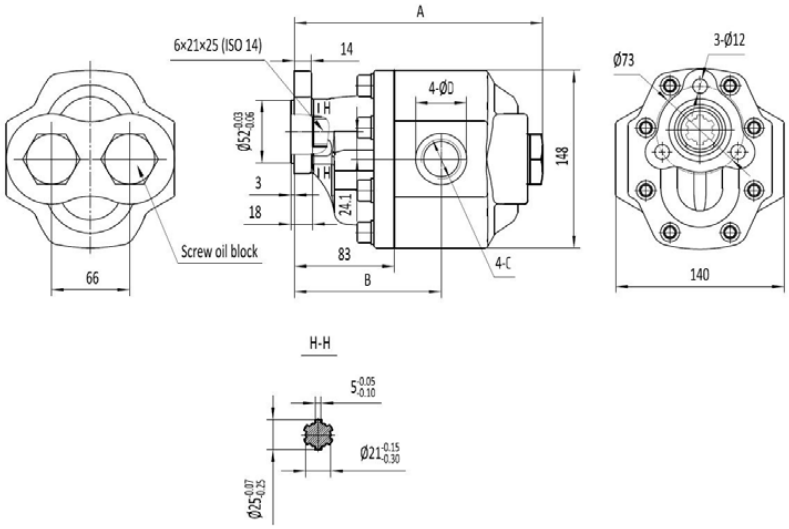
KBLH-R-63-F1H8L1-C0 = KBLH series , Reversible , 63 cc/rev , F1 front cover , H8 shaft , L1 ports ,C0 ports position .

- ★ Two pieces housing in robust cast iron material .
- ★ Auto-compensated by thrust plate .
- ★ High sustained working pressure and long life .
- ★ Anti-contamination .
- ★ Medium-heavy duty applications .



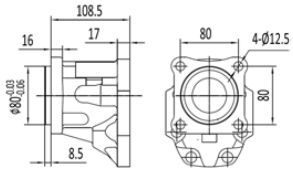
Type	Displacement	Max. pressure			Max. Continuous speed	Max. Intermittent speed	Min. speed	A	B	D	C	
		P1	P2	P3								
	(cm^3/r)	bar	bar	bar	(r/min)	(r/min)	(r/min)	mm	mm	mm	Inlet	Outlet
KBLH-R-20-F1	20	250	280	315	2000	2500	500	203	133.5	36	G3/4	G3/4
KBLH-R-30-F1	30	250	280	315	2000	2500	500	210	136.5	36	G3/4	G3/4
KBLH-R-40-F1	40	250	280	315	2000	2500	500	213	142.5	42.5	G3/4	G3/4
KBLH-R-50-F1	50	250	280	315	2000	2500	500	217	142.5	42.5	G1	G1
KBLH-R-63-F1	63	230	250	280	2000	2500	500	224	143.5	42.5	G1	G1
KBLH-R-80-F1	80	230	250	280	2000	2500	500	231	147.7	42.5	G1	G1
KBLH-R-82-F1	82	230	250	280	2000	2500	500	233	148.5	42.5	G1	G1

- ★ Two pieces housing in robust cast iron material .
- ★ Auto-compensated by thrust plate .
- ★ High sustained working pressure and long life .
- ★ Anti-contamination .
- ★ Medium-heavy duty applications .



Type	Displacement	Max. pressure			Max. Continuous speed	Max. Intermittent speed	Min. speed	A	B	D	C	
		P1	P2	P3								
	(cm³/r)	bar	bar	bar	(r/min)	(r/min)	(r/min)	mm	mm	mm	Inlet	Outlet
KBLH-R-20-F3	20	250	280	315	2000	2500	500	178	108	36	G3/4	G3/4
KBLH-R-30-F3	30	250	280	315	2000	2500	500	184	111	36	G3/4	G3/4
KBLH-R-40-F3	40	250	280	315	2000	2500	500	187	117	42.5	G3/4	G3/4
KBLH-R-50-F3	50	250	280	315	2000	2500	500	191	117	42.5	G1	G1
KBLH-R-63-F3	63	230	250	280	2000	2500	500	199	118	42.5	G1	G1
KBLH-R-80-F3	80	230	250	280	2000	2500	500	206	122	42.5	G1	G1
KBLH-R-82-F3	82	230	250	280	2000	2500	500	209	148.5	42.5	G1	G1

FRONT COVER



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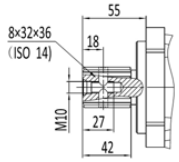
SHAFTS



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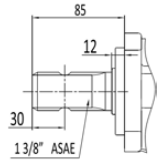

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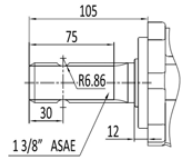

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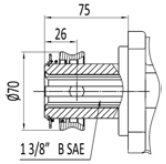

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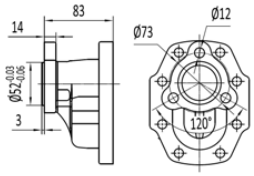

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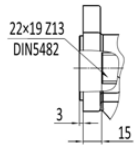
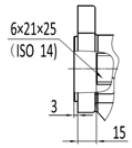


H0



H1

PORTS

Type	Ports code	Inlet		Outlet	
		D	C	D	C
KBLH-*-20～KBLH-*-40	L0	36	G 3/4	36	G 3/4
KBLH-*-50～KBLH-*-82	L1	42.5	G 1	42.5	G 1

L0/L1

Remark: please contact us for more inlet/outlet specifications .

PORTS POSITION

A0

A1

A2

A3

B0

B1

B2

B3

C0

HOW TO ORDER

KBMH	Rotation		Size	Front cover	Shaft	Ports	Seals	Ports position
Series	D	Clockwise	40	F4	H8	L0	Omit	A0
	S	Anti-clockwise	50		S0	L1	HS	A1
	R	Reversible	63		S1	L2	CS	A2
			80		S2	L3	MS	A3
			100				PS	B0
			105					B1
			112					B2
			120					B3
			130					C0
			150					

Seals

Omit - Range between -10℃and +80℃， inlet pressure up to max. 3 bar absolute (standard seal) .

HS - Version suitable for fluid at hi-temperatures , range between -10℃and +120℃ .

CS - Version suitable for fluid at low-temperatures , range between -40℃and +80℃ .

MS - Version suitable for inlet pressure up to max. 3 and 6 bar absolute .

PS - Version suitable for inlet pressure up to max. 3 and 10 bar absolute .

Ports position

A0 - Two ports , one side inlet and one side outlet .

A1 - Two ports , one side inlet and one back outlet .

A2 - Two ports , one back inlet and one side outlet .

A3 - Two ports , one back inlet and one back outlet .

B0 - Three ports , one side inlet , one side outlet and one back outlet .

B1 - Three ports , one side inlet , one back inlet and one side outlet .

B2 - Three ports , one side inlet , one back inlet and one back outlet .

B3 - Three ports , one back inlet , one side outlet and one back outlet .

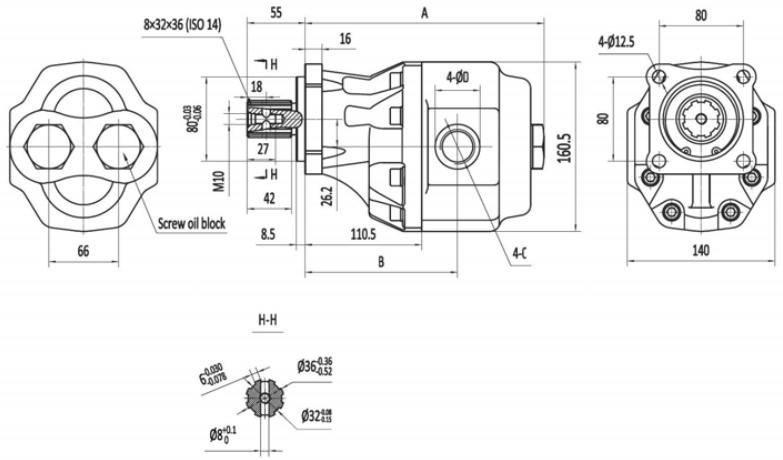
C0 - Four ports , one side inlet ,one back inlet ,one side outlet and one back outlet .

Remark : Due to installation distance limitation and working allowance , “L3” only suitable for “A0” Ports position .

Examples

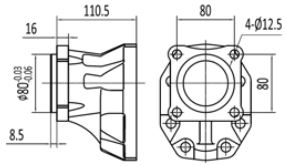
KBMH-R-100-F4H8L2-C0 = KBMH series , Reversible , 100 cc/rev , F4 front cover , H8 shaft , L2 ports ,C0 ports position .

- ★ Two pieces housing in robust cast iron material .
- ★ Auto-compensated by thrust plate .
- ★ High sustained working pressure and long life .
- ★ Anti-contamination .
- ★ From medium to heavy duty applications .



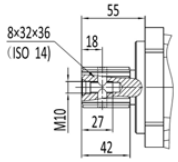
Type	Displacement	Max. pressure			Max. Continuous speed	Max. Intermittent speed	Min. speed	A	B	D	C	
		P1	P2	P3								
	(cm^3/r)	bar	bar	bar	(r/min)	(r/min)	(r/min)	mm	mm	mm	Inlet	Outlet
KBMH-R-40-F4	40	250	280	315	2000	2500	500	201	135	36	G3/4	G3/4
KBMH-R-50-F4	50	250	280	315	2000	2500	500	207	136	42.5	G1	G1
KBMH-R-63-F4	63	250	280	315	2000	2500	500	212	139	42.5	G1	G1
KBMH-R-80-F4	80	230	250	280	2000	2500	500	223	144	42.5	G1	G1
KBMH-R-100-F4	100	210	225	240	2000	2500	500	226	154	56	G11/4	G11/4
KBMH-R-105-F4	105	180	195	210	1800	2000	500	237	157	56	G11/4	G11/4
KBMH-R-110-F4	110	180	195	210	1800	2000	500	242	162	56	G11/4	G11/4
KBMH-R-120-F4	120	160	180	200	1800	2000	500	246	166	56	G11/4	G11/4
KBMH-R-130-F4	130	180	190	200	1500	1800	500	239	170	62	G11/2	G11/2
KBMH-R-150-F4	150	170	180	190	1500	1800	500	249	180	62	G11/2	G11/2

FRONT COVER

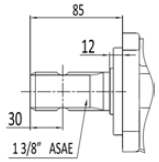


F4

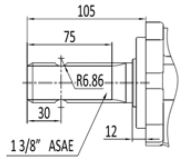
SHAFTS



H8



S0



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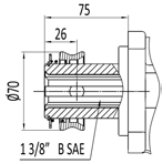


S2

PORTS

L0/L1/L2/L3

Type	Ports code	Inlet		Outlet	
		D	C	D	C
KBMH-*-20～KBMH-*-40	L0	36	G 3/4	36	G 3/4
KBMH-*-50～KBMH-*-80	L1	42.5	G 1	42.5	G 1
KBMH-*-100～KBMH-*-120	L2	56	G1 1/4	56	G1 1/4
KBMH-*-130～KBMH-*-150	L3	62	G1 1/2	62	G1 1/2

Remark: please contact us for more inlet/outlet specifications .

PORTS POSITION

A0

A1

A2

A3

B0

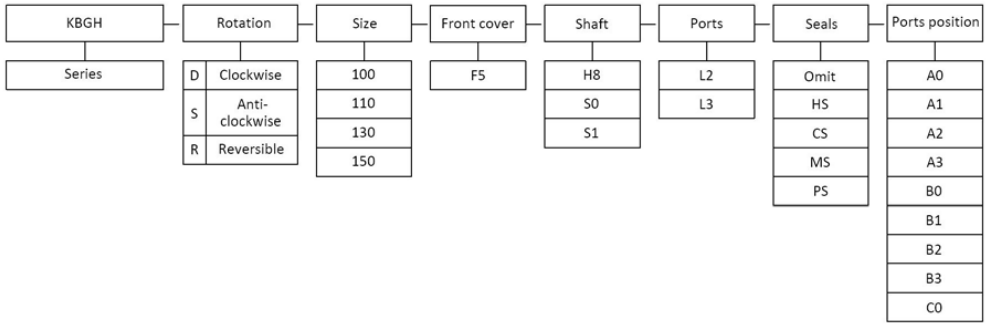
B1

B2

B3

C0

HOW TO ORDER



Seals

Omit - Range between -10℃and +80℃， inlet pressure up to max. 3 bar absolute (standard seal) .

HS - Version suitable for fluid at hi-temperatures , range between -10℃and +120℃ .

CS - Version suitable for fluid at low-temperatures , range between -40℃and +80℃ .

MS - Version suitable for inlet pressure up to max. 3 and 6 bar absolute .

PS - Version suitable for inlet pressure up to max. 3 and 10 bar absolute .

Ports position

A0 - Two ports , one side inlet and one side outlet .

A1 - Two ports , one side inlet and one back outlet .

A2 - Two ports , one back inlet and one side outlet .

A3 - Two ports , one back inlet and one back outlet .

B0 - Three ports , one side inlet , one side outlet and one back outlet .

B1 - Three ports , one side inlet , one back inlet and one side outlet .

B2 - Three ports , one side inlet , one back inlet and one back outlet .

B3 - Three ports , one back inlet , one side outlet and one back outlet .

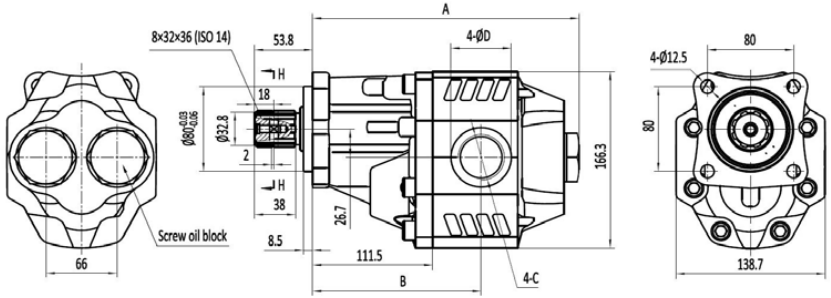
C0 - Four ports , one side inlet ,one back inlet ,one side outlet and one back outlet .

Remark : Due to installation distance limitation and working allowance , “L3” only suitable for “A0” Ports position .

Examples

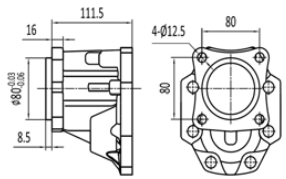
KBGH-R-150-F5H8L3-A0 = KBGH series , Reversible , 150 cc/rev , F5 front cover , H8 shaft , L3 ports ,A0 ports position .

- ★ Two pieces housing in robust cast iron material .
- ★ Auto-compensated by thrust plate .
- ★ High sustained working pressure and long life .
- ★ Anti-contamination .
- ★ For heavy duty applications .



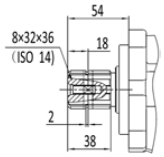
Type	Displacement	Max. pressure			Max. Continuous speed	Max. Intermittent speed	Min. speed	A	B	D	C	
		P1	P2	P3								
	(cm^3/r)	bar	bar	bar	(r/min)	(r/min)	(r/min)	mm	mm	mm	Inlet	Outlet
KBGH-R-100-F5	100	280	315	350	2000	2500	500	243	156.5	56	G11/4	G11/4
KBGH-R-110-F5	110	250	280	315	2000	2500	500	248	161.5	56	G11/4	G11/4
KBGH-R-130-F5	130	230	250	280	1800	2000	500	257	168	62	G11/2	G11/2
KBGH-R-150-F5	150	210	225	240	1500	1800	500	268	176.5	62	G11/2	G11/2

FRONT COVER

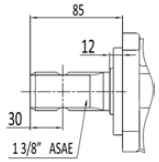


F5

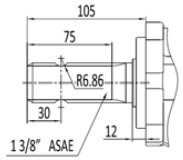
SHAFTS



H8



S0



S1

PORTS

L2/L3

Type	Ports code	Inlet		Outlet	
		D	C	D	C
KBGH-*-100～KBGH-*-110	L2	56	G1 1/4	56	G1 1/4
KBGH-*-130～KBGH-*-150	L3	62	G 1 1/2	62	G 1 1/2

Remark: please contact us for more inlet/outlet specifications .

PORTS POSITION

A0

A1

A2

A3

B0

B1

B2

B3

C0

HOW TO ORDER

KBFP	Rotation	Size	Front cover	Shaft	Ports	Seals	Drain
Series	D Clockwise	40	G0	K0		Omit	Omit
KBFP - gear pump	S Anti-clockwise	50	G1	K1		HS	T0
KMFP - gear motor	R Reversible	63	G2	K2		CS	T1
		80	G3	H2		MS	
		100	Q0	H3		PS	
			Q1	P0			
				P1			
				P2			

Seals

Omit - Range between -10℃and +80℃， inlet pressure up to max. 3 bar absolute (standard seal) .

HS - Version suitable for fluid at hi-temperatures , range between -10℃and +120℃ .

CS - Version suitable for fluid at low-temperatures , range between -40℃and +80℃ .

MS - Version suitable for inlet pressure up to max. 3 and 6 bar absolute .

PS - Version suitable for inlet pressure up to max. 3 and 10 bar absolute .

Drain

Omit - Have no drain .

T0 - External drain 1/4-18 NPT .

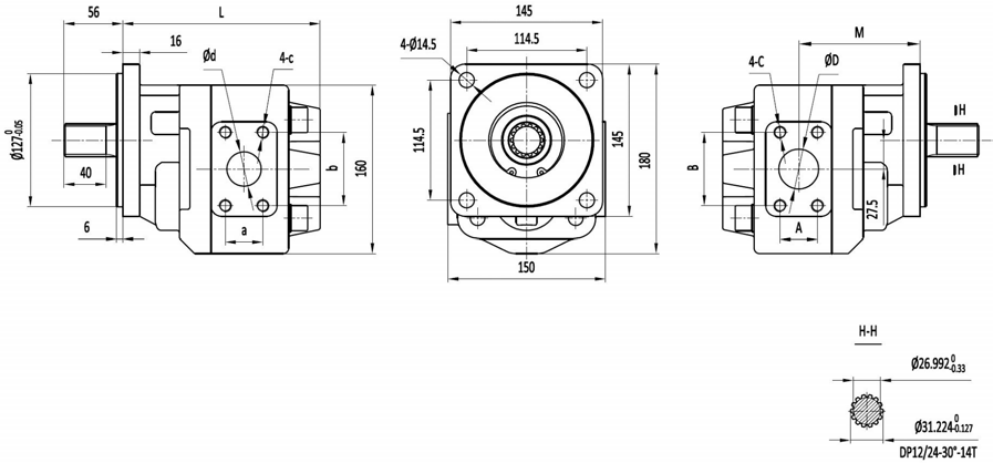
T1 - External drain M14×1.5 .

Examples

KBFP-D-63-G0K0E1 = KBFP series , Clockwise , 63 cc/rev , G0 front cover , K0 shaft , E1 ports .

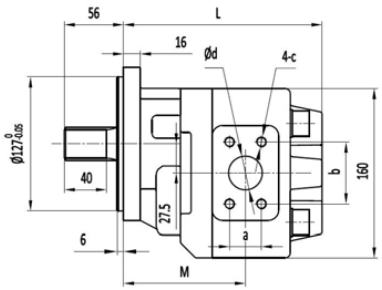
- ★ Two pieces housing in robust cast iron material .
- ★ Auto-compensated by thrust plate .
- ★ High sustained working pressure and long life .
- ★ Anti-contamination .
- ★ For heavy duty applications .

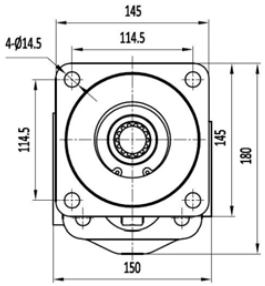
OUTLET **INLET**

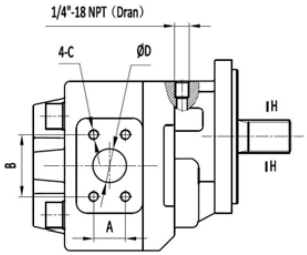


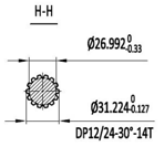
Type	Displacement	Max. pressure			Max. speed	Min. speed	L	M	INLET				OUTLET			
		P1	P2	P3					A	B	C	D	a	b	c	d
	(cm^3/r)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm	mm	mm		mm	mm	mm	
KBFP-D-40-G0	40	230	250	280	2500	500	173	113.7	26.2	52.4	M10	25.4	22.3	47.6	M10	19.1
KBFP-D-50-G0	50	230	250	280	2500	500	177	116	26.2	52.4	M10	25.4	22.3	47.6	M10	19.1
KBFP-D-63-G0	63	230	250	280	2500	500	183	123	30.2	58.7	M10	31.8	26.2	52.4	M10	25.4
KBFP-D-80-G0	80	210	230	250	2500	500	191	123.5	35.7	69.9	M12	38.1	30.2	58.7	M10	31.8
KBFP-D-100-G0	100	210	230	250	2500	500	203	135	35.7	69.9	M12	38.1	30.2	58.7	M10	31.8

- ★ Two pieces housing in robust cast iron material .
- ★ Auto-compensated by thrust plate .
- ★ High sustained working pressure and long life .
- ★ Anti-contamination .
- ★ For heavy duty applications .



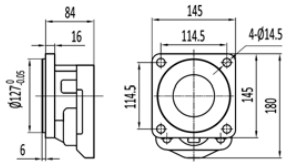






Type	Displacement	Max. pressure			Max. speed	Min. speed	L	M	INLET				OUTLET			
		P1	P2	P3					A	B	C	D	a	b	c	d
	(cm^3/r)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm	mm		mm	mm	mm		mm
KMFP-R-40G2-T0	40	230	250	280	2500	500	173	113.7	26.2	52.4	M10	25.4	26.2	52.4	M10	25.4
KMFP-R-50G2–T0	50	230	250	280	2500	500	177	116	30.2	58.7	M10	31.8	30.2	58.7	M10	31.8
KMFP-R-63G2–T0	63	230	250	280	2500	500	183	123	30.2	58.7	M10	31.8	30.2	58.7	M10	31.8
KMFP-R-80G2–T0	80	210	230	250	2500	500	191	123.5	35.7	69.9	M12	38.1	35.7	69.9	M12	38.1
KMFP-R-100G2–T0	100	210	230	250	2500	500	203	135	35.7	69.9	M12	38.1	35.7	69.9	M12	38.1

FRONT COVER



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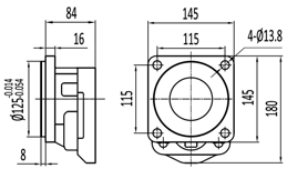
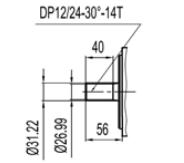


G1

SHAFTS



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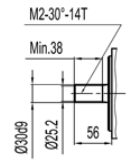

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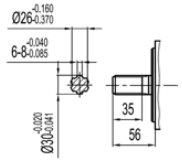

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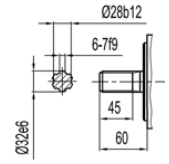

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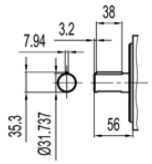

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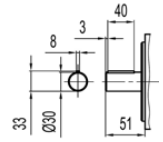

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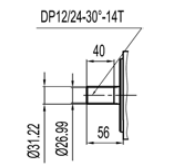

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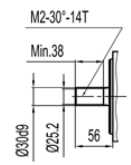

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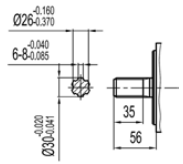

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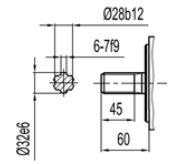

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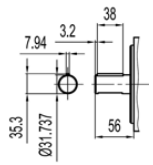

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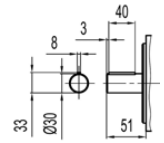
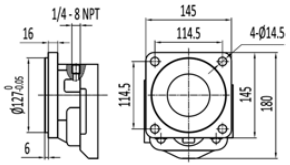


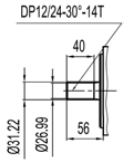
P1

FRONT COVER



G2

SHAFTS



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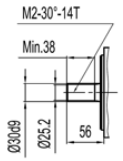

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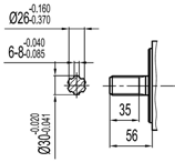

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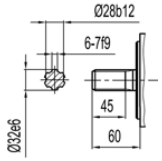

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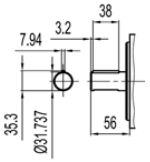
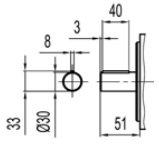


P0



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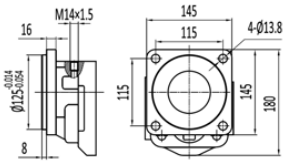

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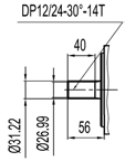

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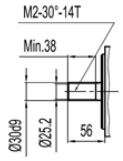
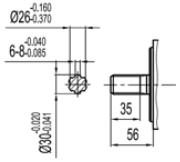
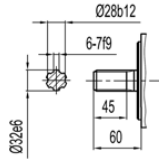


K1



H2



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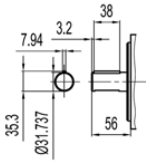

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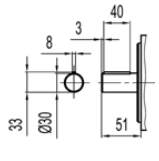

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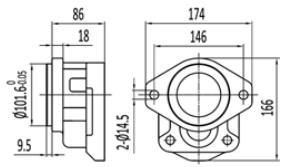
FRONT COVER



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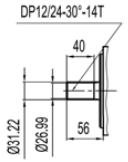
SHAFTS



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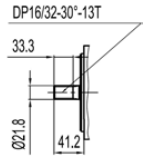

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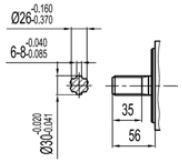

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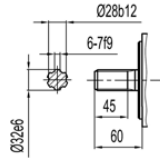

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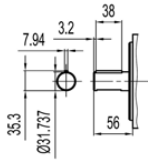

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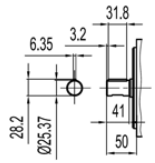

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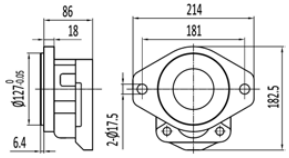

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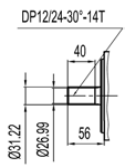

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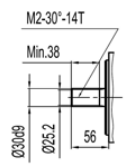

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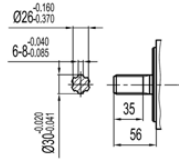

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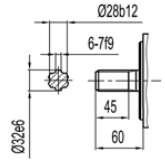

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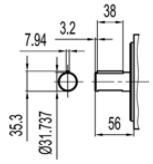

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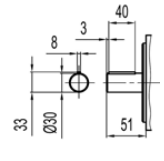

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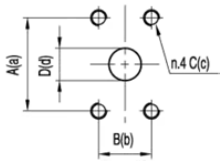
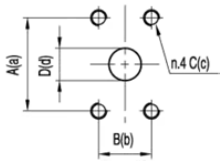
PORTS



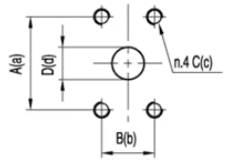
E0/E1/E2

TYPE	CODE	INLET				OUTLET			
		A	B	C	D	a	b	c	d
KBFP..40 ～ KBFP..50	E0	52.4	26.2	M10	25.4	47.6	22.3	M10	19.1
KBFP..63	E1	58.7	30.2	M10	31.8	52.4	26.2	M10	25.4
KBFP..80 ～ KBFP..100	E2	69.9	35.7	M12	38.1	58.7	30.2	M10	31.8



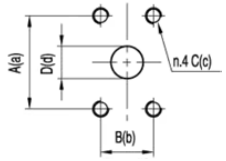
E3/E4

TYPE	CODE	INLET				OUTLET			
		A	B	C	D	a	b	c	d
KMFP..40 ～ KMFP..63	E3	52.4	26.2	M10	25.4	52.4	26.2	M10	25.4
KMFP..80 ～ KMFP..100	E4	58.7	30.2	M10	31.8	58.7	30.2	M10	31.8



U0/U1/U2

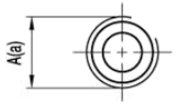
TYPE	CODE	INLET				OUTLET			
		A	B	C	D	a	b	c	d
KBFP..40 ～ KBFP..50	U0	52.4	26.2	3/8-16UNC	25.4	47.6	22.3	3/8-16UNC	19.1
KBFP..63	U1	58.7	30.2	7/16-14UNC	31.8	52.4	26.2	3/816UNC	25.4
KBFP..80 ～ KBFP..100	U2	69.9	35.7	1/2-13UNC	38.1	58.7	30.2	7/16-14UNC	31.8



U3/U4

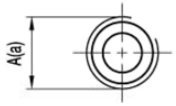
TYPE	CODE	INLET				OUTLET			
		A	B	C	D	a	b	c	d
KMFP..40 ～ KMFP..63	U3	52.4	26.2	3/8-16UNC	25.4	52.4	26.2	3/8-16UNC	25.4
KMFP..80 ～ KMFP..100	U4	58.7	30.2	7/16-14UNC	31.8	58.7	30.2	7/16-14UNC	31.8

PORTS



L5/L6/L7

TYPE	CODE	INLET	OUTLET
		A	a
KBFP..40	L5	G1	G3/4
KBFP..50 ～ KBFP..80	L6	G1 1/4	G1
KBFP100	L7	G1 1/2	G1 1/4



N0/N1/N2

TYPE	CODE	INLET	OUTLET
		A	a
KBFP..40	N0	NPT 1	NPT 3/4
KBFP..50 ～ KBFP..80	N1	NPT 1 1/4	NPT 1
KBFP100	N2	NPT 1 1/2	NPT 1 1/4

Remark: please contact us for more inlet/outlet specifications .

HOW TO ORDER

KBHP	Rotation	Size	Front cover	Shaft	Ports	Seals	Drain
Series	D Clockwise	80	G4	K3		Omit	Omit
KBHP - gear pump	S Anti-clockwise	100	G5	K4		HS	T2
KMHP - gear motor	R Reversible	125	G6	P0		CS	T3
		140	G7			MS	
		160				PS	

Seals

Omit - Range between -10℃and +80℃， inlet pressure up to max. 3 bar absolute (standard seal) .

HS - Version suitable for fluid at hi-temperatures , range between -10℃and +120℃ .

CS - Version suitable for fluid at low-temperatures , range between -40℃and +80℃ .

MS - Version suitable for inlet pressure up to max. 3 and 6 bar absolute .

PS - Version suitable for inlet pressure up to max. 3 and 10 bar absolute .

Drain

Omit - Have no drain .

T2 - External drain 7/16-20 UNF .

T3 - External drain M18×1.5 .

Examples

KBHP-D-100-G4K0E7 = KBFP series , Clockwise , 100 cc/rev , G4 front cover , K0 shaft , E7 ports .

★ Two pieces housing in robust cast iron material .

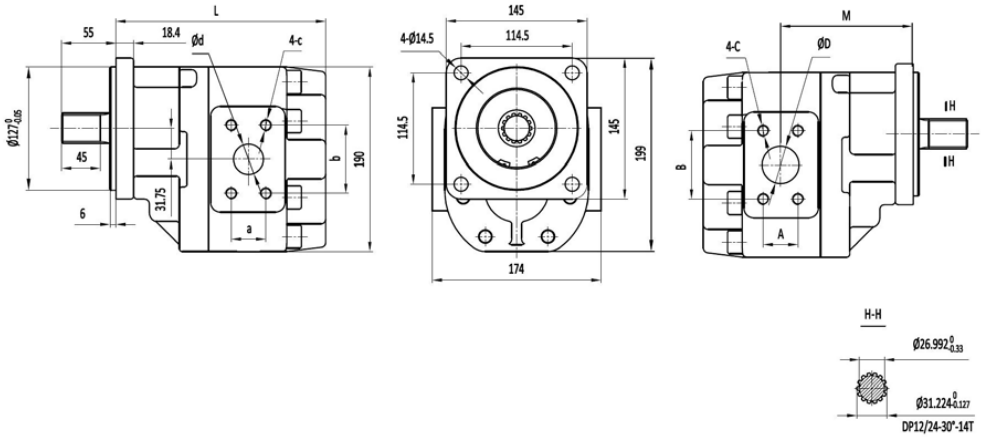
★ Auto-compensated by thrust plate .

★ High sustained working pressure and long life .

★ Anti-contamination .

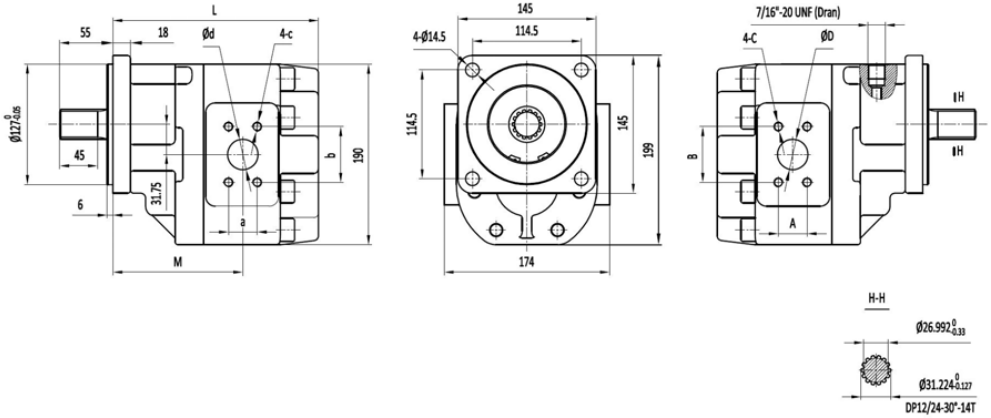
★ For heavy duty applications .

OUTLET **INLET**



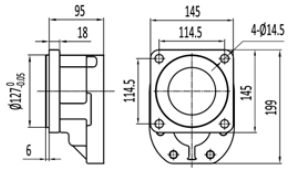
Type	Displacement	Max. pressure			Max. speed	Min. speed	L	M	INLET				OUTLET			
		P1	P2	P3					A	B	C	D	a	b	c	d
	(cm^3/r)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm	mm	mm		mm	mm	mm	
KBHP-D-80-G4	80	230	250	280	2200	600	200	120.5	35.7	69.9	M12	38.1	30.2	58.7	M10	31.8
KBHP-D-100-G4	100	230	250	280	2200	600	208	127.5	35.7	69.9	M12	38.1	30.2	58.7	M10	31.8
KBHP-D-125-G4	125	210	230	250	2200	600	219	131.5	42.9	77.8	M12	50.8	30.2	58.7	M10	31.8
KBHP-D-140-G4	140	210	230	250	2200	600	225	134	42.9	77.8	M12	50.8	30.2	58.7	M10	31.8
KBHP-D-160-G4	160	210	230	250	2200	600	233	139.5	42.9	77.8	M12	50.8	30.2	58.7	M10	31.8

- ★ Two pieces housing in robust cast iron material .
- ★ Auto-compensated by thrust plate .
- ★ High sustained working pressure and long life .
- ★ Anti-contamination .
- ★ For heavy duty applications .



Type	Displacement	Max. pressure			Max. speed	Min. speed	L	M	INLET（OUTLET）							
		P1	P2	P3					A	B	C	D	a	b	c	d
	(cm^3/r)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm	mm	mm		mm	mm	mm	
KMHP-D-80-G6-T2	80	230	250	280	2200	600	200	120.5	30.2	58.7	M10	31.8	30.2	58.7	M10	31.8
KMHP-D-100-G6-T2	100	230	250	280	2200	600	208	127.5	30.2	58.7	M10	31.8	30.2	58.7	M10	31.8
KMHP-D-125-G6-T2	125	210	230	250	2200	600	219	131.5	35.7	69.9	M12	38.1	30.2	58.7	M10	31.8
KMHP-D-140-G6-T2	140	210	230	250	2200	600	225	134	35.7	69.9	M12	38.1	30.2	58.7	M10	31.8
KMHP-D-160-G6T2	160	210	230	250	2200	600	233	139.5	42.9	77.8	M12	50.8	42.9	77.8	M12	50.8

FRONT COVER SHAFTS



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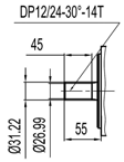

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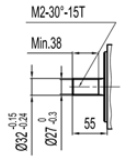

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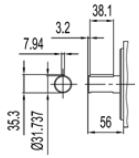

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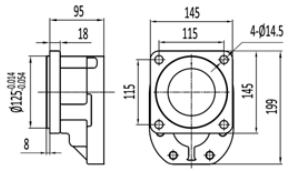
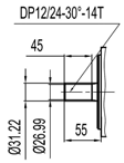
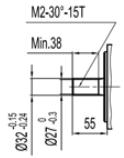


G5



K3



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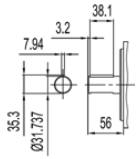
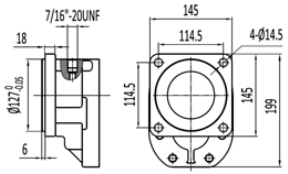


P0



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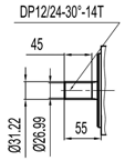
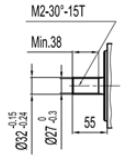


K3



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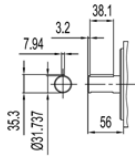

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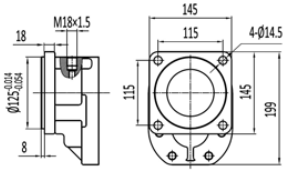
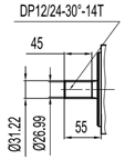
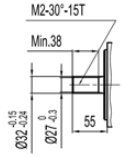


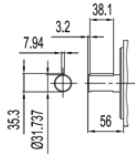
G7



K3

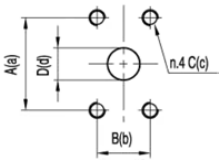


K4



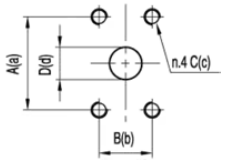
P0

PORTS



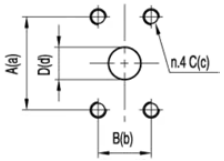
E0/E1/E2

TYPE	CODE	INLET				OUTLET			
		A	B	C	D	a	b	c	d
KBHP..80 ~ KBHP..100	E2	69.9	35.7	M12	38.1	58.7	30.2	M10	31.8
KBHP..125 ~ KBHP..160	E5	77.8	42.9	M12	50.8	58.7	30.2	M10	31.8



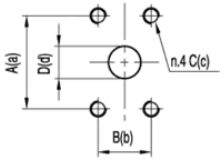
E4/E6/E7

TYPE	CODE	INLET				OUTLET			
		A	B	C	D	a	b	c	d
KMHP..80 ~ KMHP..100	E4	58.7	30.2	M10	31.8	58.7	30.2	M10	31.8
KMHP..125 ~ KMHP..140	E6	69.9	35.7	M12	38.1	69.9	35.7	M12	38.1
KMHP..160	E7	77.8	42.9	M12	50.8	77.8	42.9	M12	50.8



U2/U5

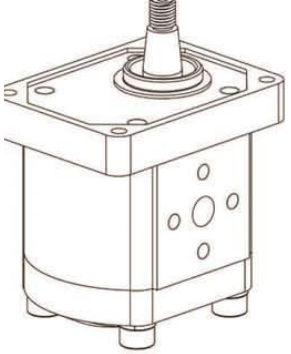
TYPE	CODE	INLET				OUTLET			
		A	B	C	D	a	b	c	d
KBHP..80 ~ KBHP..100	U2	69.9	35.7	1/2-13UNC	38.1	58.7	30.2	7/16-14UNC	31.8
KBHP..125 ~ KBHP..160	U5	77.8	42.9	1/2-13UNC	50.8	58.7	30.2	7/16-14UNC	31.8



U4/U6/U7

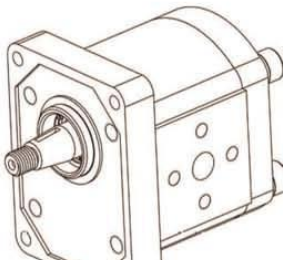
TYPE	CODE	INLET				OUTLET			
		A	B	C	D	a	b	c	d
KMHP..80 ~ KMHP..100	U4	58.7	30.2	3/8-16UNC	31.8	58.7	30.2	3/8-16UNC	31.8
KMHP..125 ~ KMHP..140	U6	69.9	35.7	7/16-14UNC	38.1	69.9	35.7	3/816UNC	38.1
KMHP..160	U7	77.8	42.9	1/2-13UNC	50.8	77.8	42.9	7/16-14UNC	50.8

Remark: please contact us for more inlet/outlet specifications .



ALUMINIUM GEAR PUMP

KLÜG HYDRAULICS



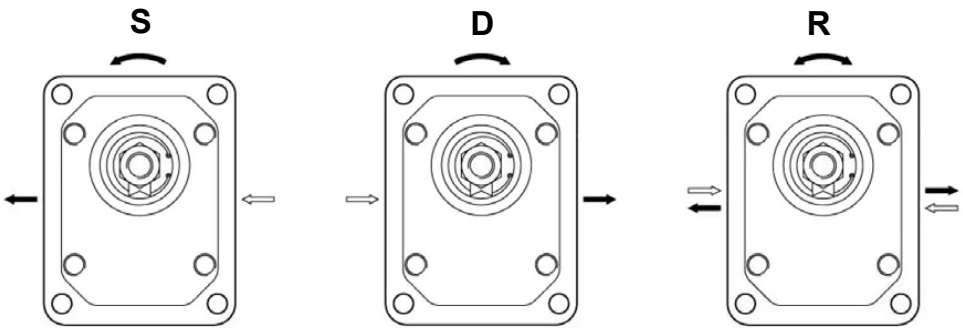
INSTALLATION NOTES

Before starting the system on a continuous basis , we suggest to adopt as follows simple precautions .

- Check for the direction of rotation of the pump to be consistent with the drive shaft one , be sure no reversion revolved .
- Check for the proper alignment of pump shaft and motor shaft , it is necessary that the connection does not induce axial or radial loads .
- Check if contact area between seal ring and shaft is clean , remove all dirt , chips and all foreign Bodies form flanges connecting inlet and delivery ports , dust could provoke quicker wear and leakage .
- Ensure that intake and return pipes ends are always below fluid level and as far from each other as Possible .
- Fill the pump with fluid , and turn it by hand .
- Disconnect pump drain during startup to bleed air off the circuit .
- Always avoid or limit load starting for pump longer life .

RATATION DIRECTION

Definition of rotation direction : when standing before the pump with driving shaft up with its projecting end towards the observer , the pump is rotating clockwise in case of right-hand rotation “C” , The contrary will happen with left-hand pumps “S” , keeping the same point of view .



S=Anti-clockwise D=Clockwise R=Reversible

INLET PRESSURE

Under standard working conditions , intake pipe pressure is lower than atmospheric pressure . the operating inlet pressure should range between 0.7 and 3 bars (absolute) .

HYDRAULIC FLUIDS

Use specific mineral oil based hydraulic fluids having good antioxidant , anti-foaming (rapid deaeration) , anti-wear , anti--corrosion , and lubricating properties , Fluids should also comply with DIN 51525 and VDMA 24317 standards and get through 11th stage of FZG test .
For the standard models , the temperature of the fluid should range between -10℃ and 80℃ .
Fluid kinematic viscosity ranges are the following :

Allowed range	6～500cSt
Recommended range	10～100cSt
Value allowed at startup	～2000cSt

FILTER RECOMMENDATION

It is widely known that most pumps early failures are due to contaminated fluids , As a warranty can’t be issued for dirt-related wear , we recommend a filter to be used , which can reduce the degree of contamination to a permissible dimension in terms of the size and concentration of dirt particles .
The filtering system shall always ensure contamination levels not exceeding the values indicated below .

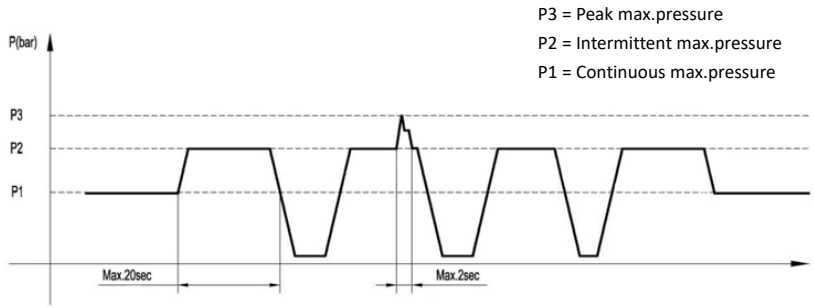
Pressure	<140 bar	140～210 bar	>210 bar
NAS 1638 Class	10	9	8
ISO 4406 Class	19/16	18/15	17/14
Ratio βx=75	25～40 mμ	12～15 mμ	6～12 mμ

INLET AND DELIVERY LINES

Hydraulic system pipes should show no sudden changes of direction , sharp bends and sudden differences in cross-section .
They should not be too long or out of proportion .
Pipe cross-section should be sized so that fluid velocity does not exceed recommended values .
It is advisable to carefully consider the possible diameter reduction of the inlet or outlet pipes fitted on flange fittings .
Reference values are the following .

Intake line	0.5～1.6 m/s
Delivery line	2～6 m/s
Return line	1.6～3 m/s

PRESSURE DEFINITION



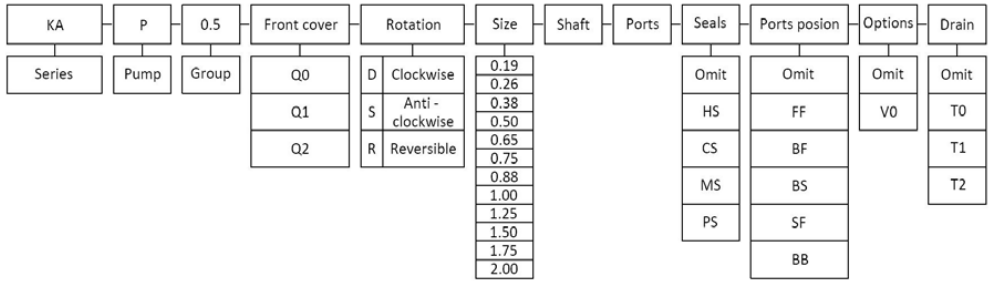
DESIGN CALCULATIONS FOR PUMP

Flow	Q	L/min
Torque	M	Nm
Power	P	kW
Speed	n	r/min
Pressure	△P	bar
Displacement	V	cm^3 /rev

Volumetric efficiency	ηv	≈0.93
Mechanical efficiency	ηhm	≈0.85
Total efficiency	ηt = ηv • ηhm	≈0.80

$Q = V \cdot n \cdot \eta v \cdot 10^{-3}$ [L/min]
M = (△P • V)/(62.83 • ηhm) [Nm]
P = (△P • Q)/(612 • ηt) [kW]

HOW TO ORDER



Seals

Omit - Range between -10℃and +80℃， inlet pressure up to max. 3 bar absolute (standard seal) .

HS - Version suitable for fluid at hi-temperatures , range between -10℃and +120℃ .

CS - Version suitable for fluid at low-temperatures , range between -40℃and +80℃ .

MS - Version suitable for inlet pressure up to max. 3 and 6 bar absolute .

PS - Version suitable for inlet pressure up to max. 3 and 10 bar absolute .

Ports position

Omit - Side inlet and side outlet .

FF - Front inlet and front outlet .

BF - Back inlet and front outlet .

BS - Back inlet and side outlet .

SF - Side inlet and front outlet .

BB - Back inlet and back outlet .

Options

Omit - Have no valves .

V0 - Directional valves .

Drain

Omit - Have no drain .

T0 - Internal drain .

T1 - External drain Φ5.

T2 - External drain G1/8 .

Examples

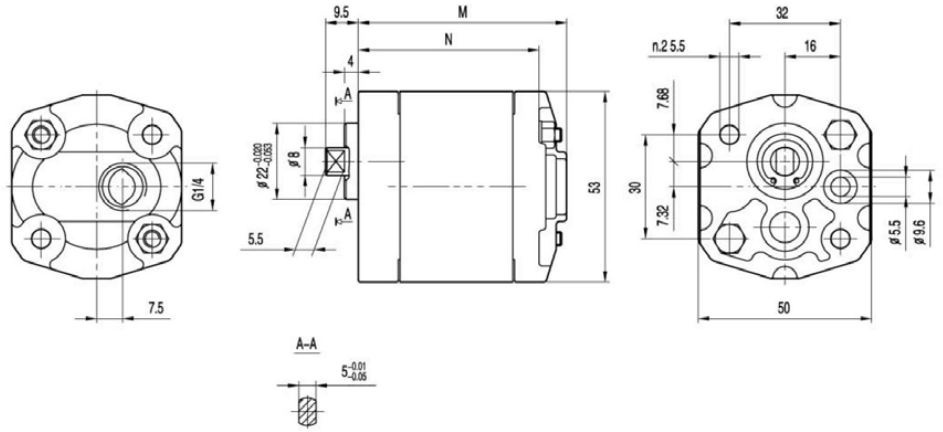
KAP0.5Q0-D-0.50B0G0-BF = KA series , 0.5 group pump , Q0 front cover , Clockwise , 0.50 cc/rev , B0 shaft , G0 ports , standard seal , back inlet and front outlet .

★ Use axial gap automatic compensation mechanism.

★ High sustained working pressure and long service life .

★ Anti fouling ability is strong and suitable for power units,machines and other kinds Of hydraulic systems .

INLET OUTLET



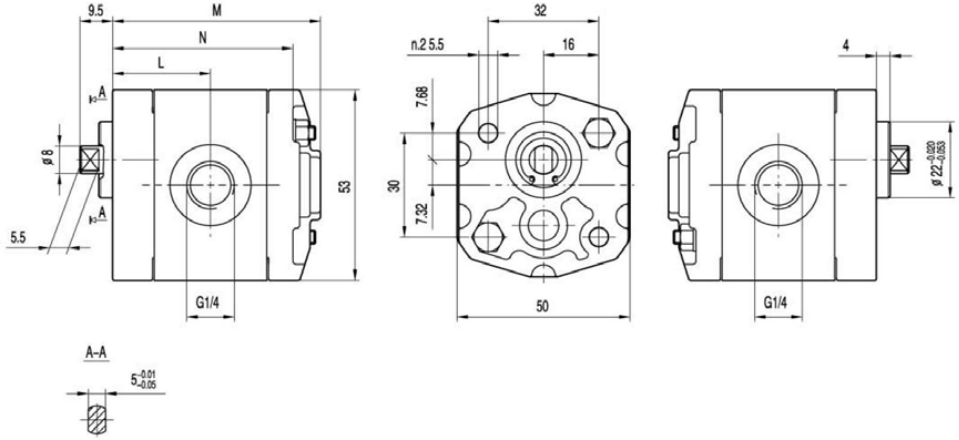
Type	Displacement	Max. pressure			Max. speed	Min. speed	Dimensions	
		P1	P2	P3			N	M
	(cm³/rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm
KAP0.5Q0-D-0.19	0.19	200	230	250	7000	1000	51	60
KAP0.5Q0-D-0.26	0.26	200	230	250	7000	1000	51.5	60.5
KAP0.5Q0-D-0.38	0.38	200	230	250	7000	1000	52.5	61.5
KAP0.5Q0-D-0.50	0.50	200	230	250	7000	1000	53.5	62.5
KAP0.5Q0-D-0.65	0.65	200	230	250	7000	1000	54.5	63.5
KAP0.5Q0-D-0.75	0.75	200	230	250	7000	1000	55.5	64.5
KAP0.5Q0-D-0.88	0.88	200	230	250	7000	1000	56.5	65.5
KAP0.5Q0-D-1.00	1.00	200	230	250	6000	850	57.5	66.5
KAP0.5Q0-D-1.25	1.25	200	230	250	5000	700	59.5	68.5
KAP0.5Q0-D-1.50	1.50	200	230	250	4000	600	61.5	70.5
KAP0.5Q0-D-1.75	1.75	180	210	230	4000	600	63.5	72.5
KAP0.5Q0-D-2.00	2.00	160	190	210	3000	500	65.5	74.5

★ Use axial gap automatic compensation mechanism.

★ High sustained working pressure and long service life .

★ Anti fouling ability is strong and suitable for power units,machines and other kinds Of hydraulic systems .

OUTLET INLET



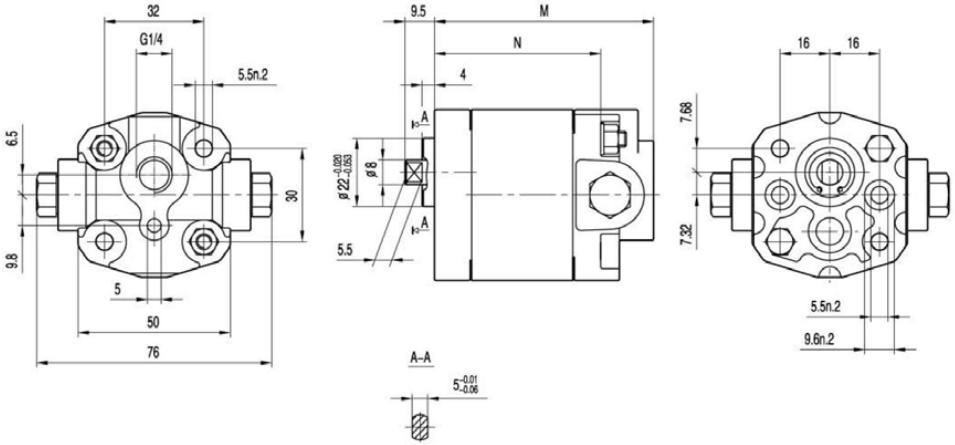
Type	Displacement	Max. pressure			Max. speed	Min. speed	Dimensions		
		P1	P2	P3			N	M	L
	(cm³/rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm
KAP0.5Q1-D-0.19	0.19	200	230	250	7000	1000	51	60	27.2
KAP0.5Q1-D-0.26	0.26	200	230	250	7000	1000	51.5	60.5	27.5
KAP0.5Q1-D-0.38	0.38	200	230	250	7000	1000	52.5	61.5	28
KAP0.5Q1-D-0.50	0.50	200	230	250	7000	1000	53.5	62.5	28.5
KAP0.5Q1-D-0.65	0.65	200	230	250	7000	1000	54.5	63.5	29
KAP0.5Q1-D-0.75	0.75	200	230	250	7000	1000	55.5	64.5	29.5
KAP0.5Q1-D-0.88	0.88	200	230	250	7000	1000	56.5	65.5	30
KAP0.5Q1-D-1.00	1.00	200	230	250	6000	850	57.5	66.5	30.5
KAP0.5Q1-D-1.25	1.25	200	230	250	5000	700	59.5	68.5	31.5
KAP0.5Q1-D-1.50	1.50	200	230	250	4000	600	61.5	70.5	32.5
KAP0.5Q1-D-1.75	1.75	180	210	230	4000	600	63.5	72.5	33.5
KAP0.5Q1-D-2.00	2.00	160	190	210	3000	500	65.5	74.5	34.5

★ Use axial gap automatic compensation mechanism.

★ High sustained working pressure and long service life .

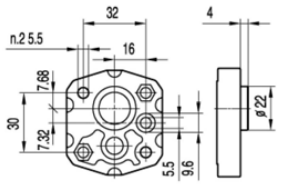
★ Anti fouling ability is strong and suitable for power units,machines and other kinds Of hydraulic systems .

INLET **OUTLET**



Type	Displacement	Max. pressure			Max. speed	Min. speed	Dimensions	
		P1	P2	P3			N	M
	(cm^3/rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm
KAP0.5Q2-R-0.19-V0T1	0.19	150	170	190	7000	1000	51	68
KAP0.5Q2-R-0.26-V0T1	0.26	150	170	190	7000	1000	51.5	68.5
KAP0.5Q2-R-0.38-V0T1	0.38	150	170	190	7000	1000	52.5	69.5
KAP0.5Q2-R-0.50-V0T1	0.50	150	170	190	7000	1000	53.5	70.5
KAP0.5Q2-R-0.65-V0T1	0.65	150	170	190	7000	1000	54.5	71.5
KAP0.5Q2-R-0.75-V0T1	0.75	150	170	190	7000	1000	55.5	72.5
KAP0.5Q2-R-0.88-V0T1	0.88	150	170	190	7000	1000	56.5	73.5
KAP0.5Q2-R-1.00-V0T1	1.00	150	170	190	6000	850	57.5	74.5
KAP0.5Q2-R-1.25-V0T1	1.25	150	170	190	5000	700	59.5	76.5
KAP0.5Q2-R-1.50-V0T1	1.50	150	170	190	4000	600	61.5	78.5
KAP0.5Q2-R-1.75-V0T1	1.75	150	170	190	4000	600	63.5	80.5
KAP0.5Q2-R-2.00-V0T1	2.00	150	170	190	3000	500	65.5	82.5

FRONT COVER SHAFTS



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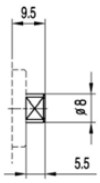

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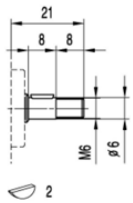

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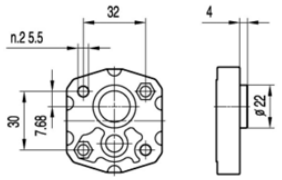

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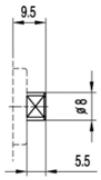

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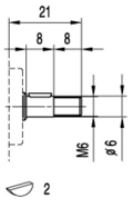

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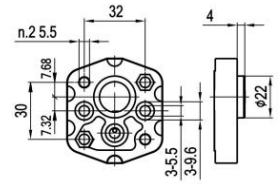

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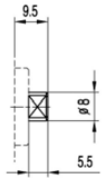

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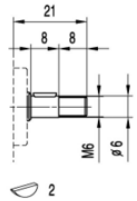


P0

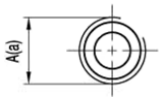
PORTS

G0

TYPE	INLET	OUTLET
	A	a
KAP0.5..0.19 ～ KAP0.5..2.00	G1/4	Φ5.5

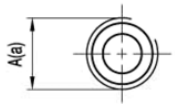
G1

TYPE	INLET	OUTLET
	A	a
KAP0.5..0.19 ～ KAP0.5..2.00	G3/8	Φ5.5



M0

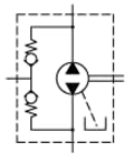
TYPE	INLET	OUTLET
	A	a
KAP0.5..0.19 ～ KAP0.5..2.00	M10×1	M10×1



L0

TYPE	INLET	OUTLET
	A	a
KAP0.5..0.19 ～ KAP0.5..2.00	G1/4	G1/4

OPTIONS



V0

DISCRIPTION
Directional valves with external drain .

HOW TO ORDER

KA	P	1	Front cover	Rotation	Size	Shaft	Ports	Seals	Ports posion	Options	Drain
Series	P-Pump	Group	Q3	D Clockwise	0.8			Omit	Omit	Omit	Omit
			Q4	S Anti - clockwise	1.1			HS	FF	X0	T0
			Q5	R Reversible	1.3			CS	BF		
			E0		1.6			MS	BS		
					1.8			PS	SF		
					2.1				BB		
					2.7						
					3.2						
					3.7						
					4.2						
					4.8						
					5.8						
					7.0						
					8.0						

Seals

Omit - Range between -10℃and +80℃， inlet pressure up to max. 3 bar absolute (standard seal) .

HS - Version suitable for fluid at hi-temperatures , range between -10℃and +120℃ .

CS - Version suitable for fluid at low-temperatures , range between -40℃and +80℃ .

MS - Version suitable for inlet pressure up to max. 3 and 6 bar absolute .

PS - Version suitable for inlet pressure up to max. 3 and 10 bar absolute .

Ports position

Omit - Side inlet and side outlet .

FF - Front inlet and front outlet .

BF - Back inlet and front outlet .

BS - Back inlet and side outlet .

SF - Side inlet and front outlet .

BB - Back inlet and back outlet

Options

Omit - Have no valves .

X0 - Pressure valve .

Drain

Omit - Have no drain .

T0 - Internal drain .

Examples

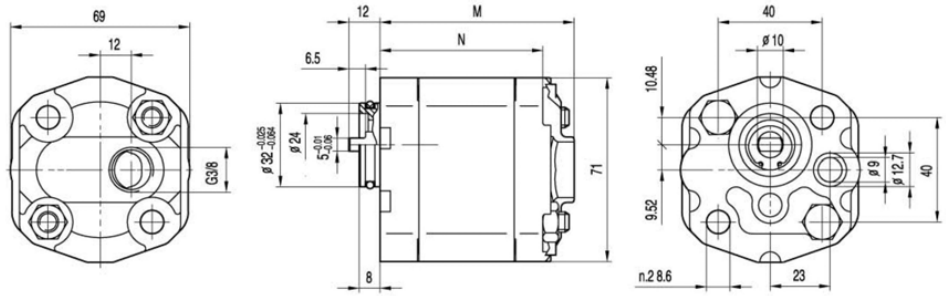
KAP1Q3-D-2.1B1G4-BF = KA series , 1 group pump , Q3 front cover , Clockwise , 2.1 cc/rev , B1 shaft , G4 ports , standard seal , back inlet and front outlet .

★ Use axial gap automatic compensation mechanism.

★ High sustained working pressure and long service life .

★ Anti fouling ability is strong and suitable for power units,machines and other kinds Of hydraulic systems .

INLET **OUTLET**



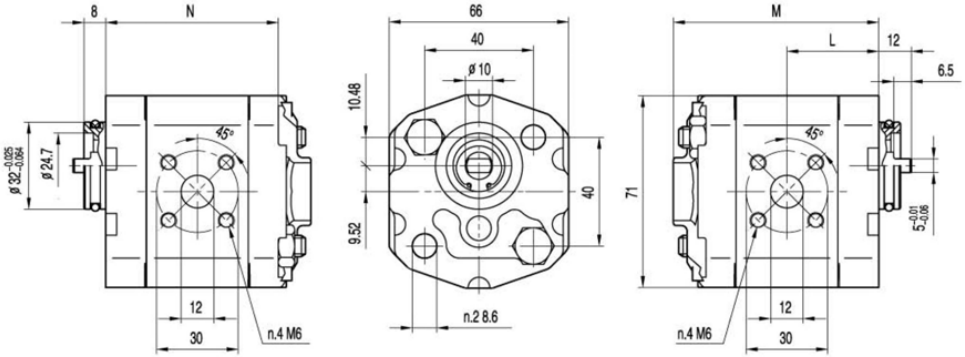
Type	Displacement	Max. pressure			Max. speed	Min. speed	Dimensions	
		P1	P2	P3			N	M
	(cm^3/rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm
KAP1Q3-D-0.8	0.8	230	250	270	6000	1000	61.5	73.5
KAP1Q3-D-1.1	1.1	230	250	270	6000	1000	62	74
KAP1Q3-D-1.3	1.3	230	250	270	6000	1000	63	75
KAP1Q3-D-1.6	1.6	230	250	270	6000	1000	64	76
KAP1Q3-D-1.8	1.8	230	250	270	6000	1000	65	77
KAP1Q3-D-2.1	2.1	230	250	270	6000	1000	66	78
KAP1Q3-D-2.7	2.7	230	250	270	6000	800	68	80
KAP1Q3-D-3.2	3.2	210	230	250	5000	800	70	82
KAP1Q3-D-3.7	3.7	210	230	250	4500	800	72	84
KAP1Q3-D-4.2	4.2	210	230	250	4000	800	74	86
KAP1Q3-D-4.8	4.8	190	210	230	3500	600	76	88
KAP1Q3-D-5.8	5.8	190	210	230	3000	600	80	92
KAP1Q3-D-7.0	7.0	160	180	200	2500	600	84	96
KAP1Q3-D-8.0	8.0	160	180	200	2100	600	88	100

★ Use axial gap automatic compensation mechanism.

★ High sustained working pressure and long service life .

★ Anti fouling ability is strong and suitable for power units,machines and other kinds Of hydraulic systems .

OUTLET **INLET**



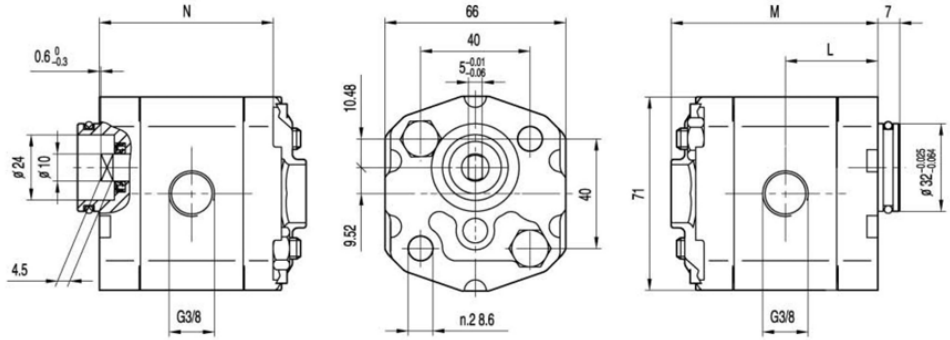
Type	Displacement	Max. pressure			Max. speed	Min. speed	Dimensions		
		P1	P2	P3			N	M	L
	(cm³/rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm
KAP1Q4-D-0.8	0.8	230	250	270	6000	1000	61.5	73.5	32.8
KAP1Q4-D-1.1	1.1	230	250	270	6000	1000	62	74	33
KAP1Q4-D-1.3	1.3	230	250	270	6000	1000	63	75	33.5
KAP1Q4-D-1.6	1.6	230	250	270	6000	1000	64	76	34
KAP1Q4-D-1.8	1.8	230	250	270	6000	1000	65	77	34.5
KAP1Q4-D-2.1	2.1	230	250	270	6000	1000	66	78	35
KAP1Q4-D-2.7	2.7	230	250	270	6000	800	68	80	36
KAP1Q4-D-3.2	3.2	210	230	250	5000	800	70	82	37
KAP1Q4-D-3.7	3.7	210	230	250	4500	800	72	84	38
KAP1Q4-D-4.2	4.2	210	230	250	4000	800	74	86	39
KAP1Q4-D-4.8	4.8	190	210	230	3500	600	76	88	40
KAP1Q4-D-5.8	5.8	190	210	230	3000	600	80	92	42
KAP1Q4-D-7.0	7.0	160	180	200	2500	600	84	96	44
KAP1Q4-D-8.0	8.0	160	180	200	2100	600	88	100	46

★ Use axial gap automatic compensation mechanism.

★ High sustained working pressure and long service life .

★ Anti fouling ability is strong and suitable for power units,machines and other kinds Of hydraulic systems .

OUTET **INLET**



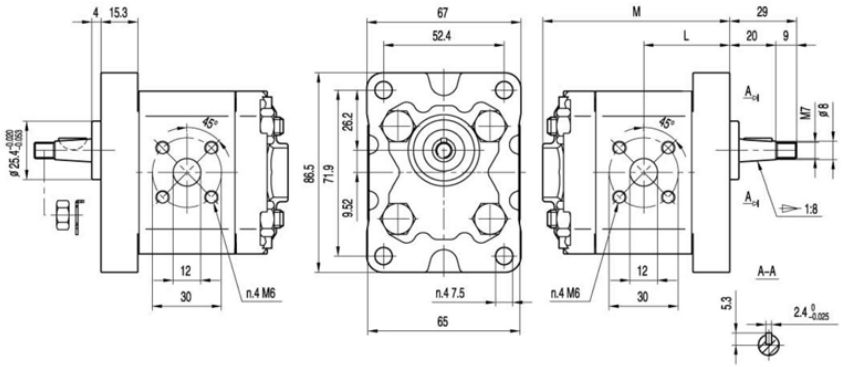
Type	Displacement	Max. pressure			Max. speed	Min. speed	Dimensions		
		P1	P2	P3			N	M	L
	(cm³/rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm
KAP1Q5-D-0.8	0.8	230	250	270	6000	1000	61.5	73.5	32.8
KAP1Q5-D-1.1	1.1	230	250	270	6000	1000	62	74	33
KAP1Q5-D-1.3	1.3	230	250	270	6000	1000	63	75	33.5
KAP1Q5-D-1.6	1.6	230	250	270	6000	1000	64	76	34
KAP1Q5-D-1.8	1.8	230	250	270	6000	1000	65	77	34.5
KAP1Q5-D-2.1	2.1	230	250	270	6000	1000	66	78	35
KAP1Q5-D-2.7	2.7	230	250	270	6000	800	68	80	36
KAP1Q5-D-3.2	3.2	210	230	250	5000	800	70	82	37
KAP1Q5-D-3.7	3.7	210	230	250	4500	800	72	84	38
KAP1Q5-D-4.2	4.2	210	230	250	4000	800	74	86	39
KAP1Q5-D-4.8	4.8	190	210	230	3500	600	76	88	40
KAP1Q5-D-5.8	5.8	190	210	230	3000	600	80	92	42
KAP1Q5-D-7.0	7.0	160	180	200	2500	600	84	96	44
KAP1Q5-D-8.0	8.0	160	180	200	2100	600	88	100	46

★ Use axial gap automatic compensation mechanism.

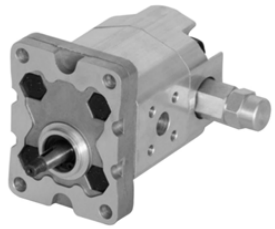
★ High sustained working pressure and long service life .

★ Anti fouling ability is strong and suitable for power units,machines and other kinds Of hydraulic systems .

INLET **OUTLET**



Type	Displacement	Max. pressure			Max. speed	Min. speed	Dimensions	
		P1	P2	P3			L	M
	(cm^3/rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm
KAP1E0-S-0.8	0.8	230	250	270	6000	1000	32.8	73.5
KAP1E0-S-1.1	1.1	230	250	270	6000	1000	33	74
KAP1E0-S-1.3	1.3	230	250	270	6000	1000	33.5	75
KAP1E0-S-1.6	1.6	230	250	270	6000	1000	34	76
KAP1E0-S-1.8	1.8	230	250	270	6000	1000	34.5	77
KAP1E0-S-2.1	2.1	230	250	270	6000	1000	35	78
KAP1E0-S-2.7	2.7	230	250	270	6000	800	36	80
KAP1E0-S-3.2	3.2	210	230	250	5000	800	37	82
KAP1E0-S-3.7	3.7	210	230	250	4500	800	38	84
KAP1E0-S-4.2	4.2	210	230	250	4000	800	39	86
KAP1E0-S-4.8	4.8	190	210	230	3500	600	40	88
KAP1E0-S-5.8	5.8	190	210	230	3000	600	42	92
KAP1E0-S-7.0	7.0	160	180	200	2500	600	44	96
KAP1E0-S-8.0	8.0	160	180	200	2100	600	46	100



★ Use axial gap automatic compensation mechanism.

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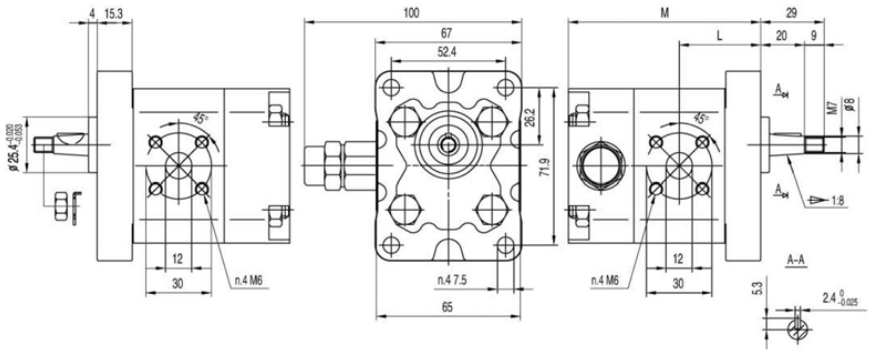
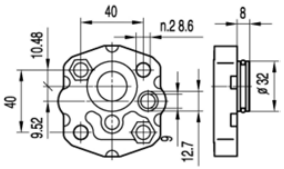
OUTLET **INLET**

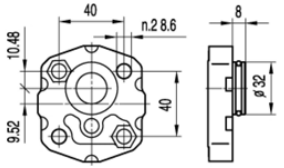


Type	Displacement	Max. pressure			Max. speed	Min. speed	Dimensions	
		P1	P2	P3			L	M
	(cm^3/rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm
KAP1E0-D-0.8-X0T0	0.8	230	250	270	6000	1000	32.8	82.5
KAP1E0-D-1.1-X0T0	1.1	230	250	270	6000	1000	33	83
KAP1E0-D-1.3-X0T0	1.3	230	250	270	6000	1000	33.5	84
KAP1E0-D-1.6-X0T0	1.6	230	250	270	6000	1000	34	85
KAP1E0-D-1.8-X0T0	1.8	230	250	270	6000	1000	34.5	86
KAP1E0-D-2.1-X0T0	2.1	230	250	270	6000	1000	35	87
KAP1E0-D-2.7-X0T0	2.7	230	250	270	6000	800	36	89
KAP1E0-D-3.2-X0T0	3.2	210	230	250	5000	800	37	91
KAP1E0-D-3.7-X0T0	3.7	210	230	250	4500	800	38	93
KAP1E0-D-4.2-X0T0	4.2	210	230	250	4000	800	39	95
KAP1E0-D-4.8-X0T0	4.8	190	210	230	3500	600	40	97
KAP1E0-D-5.8-X0T0	5.8	190	210	230	3000	600	42	101
KAP1E0-D-7.0-X0T0	7.0	160	180	200	2500	600	44	105
KAP1E0-D-8.0-X0T0	8.0	160	180	200	2100	600	46	109

FRONT COVER



Q3



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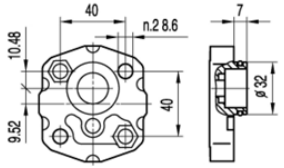
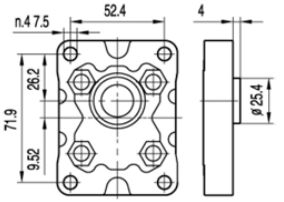
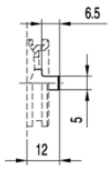


Q5

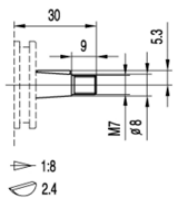


E0

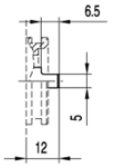
SHAFTS



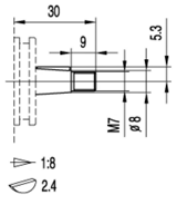
B1



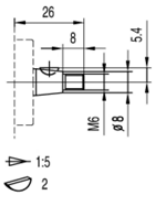
Z0



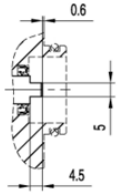
B1



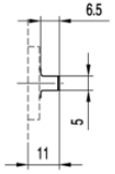
Z0



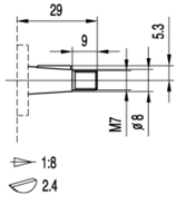
Z2



B2



B3



Z1

PORTS

G2

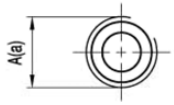
TYPE	INLET	OUTLET
	A	a
KAP1..0.8 ~ KAP1..8.0	G1/4	Φ9

G3

TYPE	INLET	OUTLET
	A	a
KAP1..0.8 ~ KAP1..8.0	G3/8	Φ9

G4

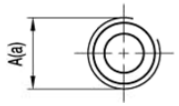
TYPE	INLET	OUTLET
	A	a
KAP1..0.8 ~ KAP1..8.0	3/8NPT	Φ9



L1

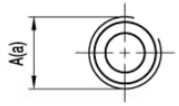
TYPE	INLET	OUTLET
	A	a
KAP1..0.8 ~ KAP1..8.0	G3/8	G1/4

PORTS



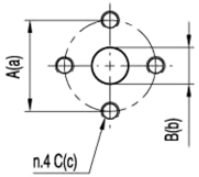
L2

TYPE	INLET	OUTLET
	A	a
KAP1..0.8 ～ KAP1..8.0	G3/8	G3/8



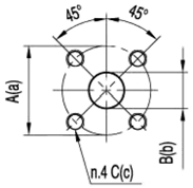
M1

TYPE	INLET	OUTLET
	A	a
KAP1..0.8 ～ KAP1..8.0	M18×1.5	M18×1.5



F1

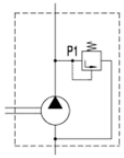
TYPE	INLET			OUTLET		
	A	B	C	a	b	c
KAP1..0.8 ～ KAP1..8.0	30	12	M6	30	12	M6



F40

TYPE	INLET			OUTLET		
	A	B	C	a	b	c
KAP1..0.8 ～ KAP1..8.0	30	12	M6	30	12	M6

OPTIONS



X0

DISCRIPTION
Pressure relief valve with internal drain ; setting pressure between 5 and 230 bar .

HOW TO ORDER

KA	P	1.5	Front cover	Rotation	Size	Shaft	Ports	Seals	Ports posion	Options	Drain
Series	P-Pump	Group	E1	D Clockwise	1.4			Omit	Omit		Omit
KA - Front and end cover material are aluminum .	M-Motor		A0	S Anti - clockwise	2.1			HS	FF		T0
KG - Front and end cover material are cast iron , pressure than "KA" series higher 30 bar.			A1	R Reversible	2.8			CS	BF		T3
			D0		3.5			MS	BS		T4
					4.1			PS	SF		T5
					5.2				BB		
					6.2						
					7.6						
					9.3						
					11.0						
					13.8						

Seals

Omit - Range between -10℃and +80℃， inlet pressure up to max. 3 bar absolute (standard seal) .

HS - Version suitable for fluid at hi-temperatures , range between -10℃and +120℃ .

CS - Version suitable for fluid at low-temperatures , range between -40℃and +80℃ .

MS - Version suitable for inlet pressure up to max. 3 and 6 bar absolute .

PS - Version suitable for inlet pressure up to max. 3 and 10 bar absolute .

Ports position

Omit - Side inlet and side outlet .

FF - Front inlet and front outlet .

BF - Back inlet and front outlet .

BS - Back inlet and side outlet .

SF - Side inlet and front outlet .

BB - Back inlet and back outlet .

Drain

Omit - Have no drain .

T0 - Internal drain .

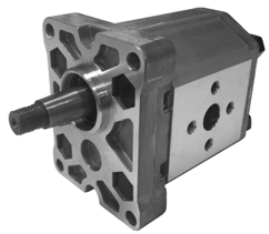
T3 - External drain G1/4 .

T4 - External drain 7/16-20 UNF .

T5 - External drain 9/16-18 UNF .

Examples

KAP1.5A0-D-5.2P2L4 = KA series , 1.5 group pump , A0 front cover , Clockwise , 5.2 cc/rev , P2 shaft , L4 ports , standard seal , side inlet and side outlet .



★ Use axial gap automatic compensation mechanism.

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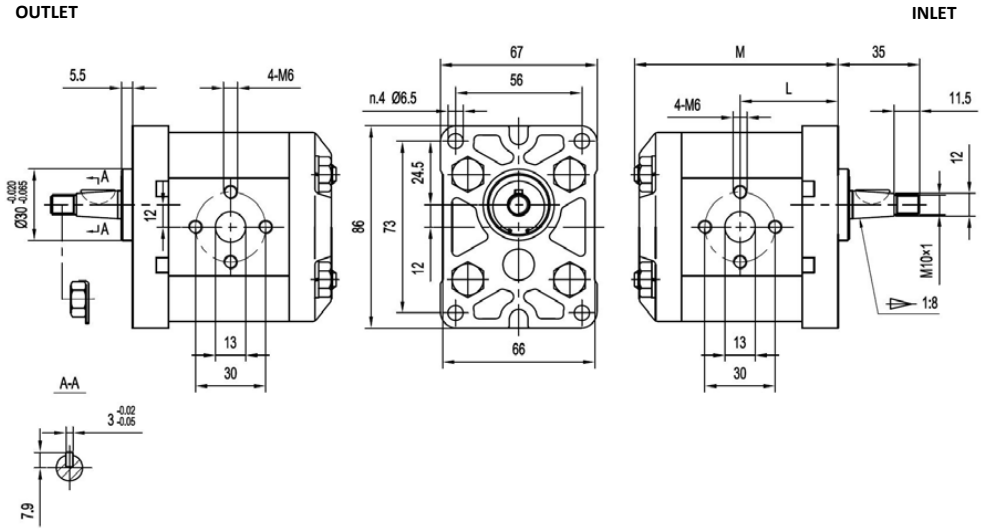


Type	Displacement	Max. pressure			Max.	Min.	Dimensions	
		P1	P2	P3	speed	speed	L	M
	(cm /rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm
KAP1.5E1-D-1.4	1.4	250	270	290	6000	800	40	82.5
KAP1.5E1-D-2.1	2.1	250	270	290	6000	800	41	84.5
KAP1.5E1-D-2.8	2.8	250	270	290	5000	800	42	86.5
KAP1.5E1-D-3.5	3.5	250	270	290	5000	800	43	88.5
KAP1.5E1-D-4.1	4.1	250	270	290	4000	800	44	90.5
KAP1.5E1-D-5.2	5.2	230	250	270	4000	800	45.5	93.5
KAP1.5E1-D-6.2	6.2	230	250	270	3800	800	47	96.5
KAP1.5E1-D-7.6	7.6	200	215	230	3200	600	49	100.5
KAP1.5E1-D-9.3	9.3	180	195	210	2600	600	51.5	105.5
KAP1.5E1-D-11.0	11.0	170	185	200	2200	600	54	110.5
KAP1.5E1-D-13.8	13.8	150	165	180	1800	600	58	118.5

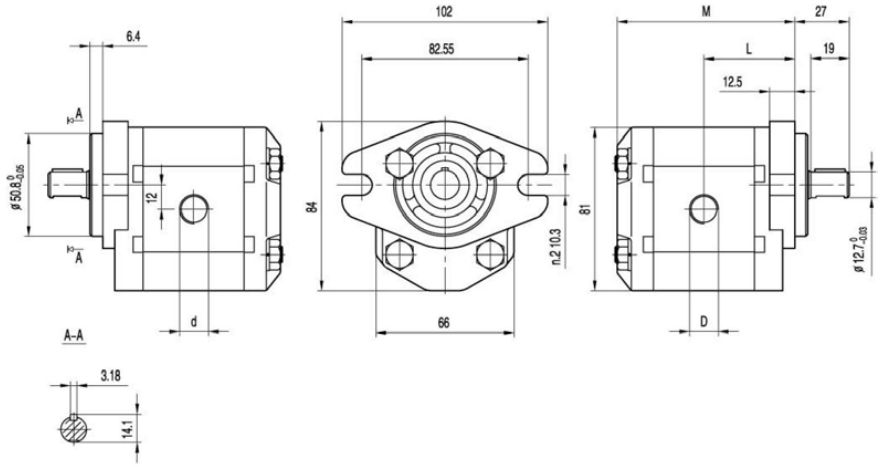
KAP1.5A0

★ Use axial gap automatic compensation mechanism.

★ High sustained working pressure and long service life .

★ Anti fouling ability is strong and suitable for power units,machines and other kinds Of hydraulic systems .

OUTLET **INLET**



Type	Displacement	Max. pressure			Max.	Min.	Dimensions			
		P1	P2	P3	speed	speed	L	M	D	d
	(cm^3/rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm		
KAP1.5A0-D-1.4	1.4	250	270	290	6000	800	42	82.5	G1/2	G3/8
KAP1.5A0-D-2.1	2.1	250	270	290	6000	800	43	84.5	G1/2	G3/8
KAP1.5A0-D-2.8	2.8	250	270	290	5000	800	44	86.5	G1/2	G3/8
KAP1.5A0-D-3.5	3.5	250	270	290	5000	800	45	88.5	G1/2	G3/8
KAP1.5A0-D-4.1	4.1	250	270	290	4000	800	46	90.5	G1/2	G1/2
KAP1.5A0-D-5.2	5.2	230	250	270	4000	800	47.5	93.5	G1/2	G1/2
KAP1.5A0-D-6.2	6.2	230	250	270	3800	800	49	96.5	G1/2	G1/2
KAP1.5A0-D-7.6	7.6	200	215	230	3200	600	51	100.5	G1/2	G1/2
KAP1.5A0-D-9.3	9.3	180	195	210	2600	600	53.5	105.5	G1/2	G1/2
KAP1.5A0-D-11.0	11.0	170	185	200	2200	600	56	110.5	G1/2	G1/2
KAP1.5A0-D-13.8	13.8	150	165	180	1800	600	60	118.5	G1/2	G1/2

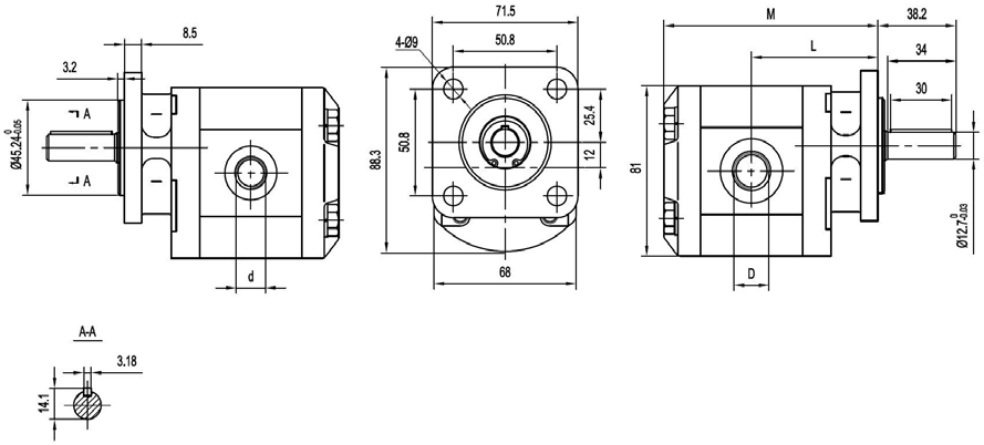
KGP1.5D0

★ Use axial gap automatic compensation mechanism.

★ High sustained working pressure and long service life .

★ Anti fouling ability is strong and suitable for power units,machines and other kinds Of hydraulic systems .

OUTLET **INLET**



Type	Displacement	Max. pressure			Max.	Min.	Dimensions			
		P1	P2	P3	speed	speed	L	M	D	d
	(cm^3/rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm		
KAP1.5D0-D-1.4	1.4	250	270	290	6000	800	59	98	3/4-16UNF	9/16-18UNF
KAP1.5D0-D-2.1	2.1	250	270	290	6000	800	60	100	3/4-16UNF	9/16-18UNF
KAP1.5D0-D-2.8	2.8	250	270	290	5000	800	61	102	3/4-16UNF	9/16-18UNF
KAP1.5D0-D-3.5	3.5	250	270	290	5000	800	62	104	3/4-16UNF	9/16-18UNF
KAP1.5D0-D-4.1	4.1	250	270	290	4000	800	63	106	3/4-16UNF	9/16-18UNF
KAP1.5D0-D-5.2	5.2	230	250	270	4000	800	64.5	109	3/4-16UNF	9/16-18UNF
KAP1.5D0-D-6.2	6.2	230	250	270	3800	800	66	112	3/4-16UNF	9/16-18UNF
KAP1.5D0-D-7.6	7.6	200	215	230	3200	600	68	116	7/8-14UNF	3/4-16UNF
KAP1.5D0-D-9.3	9.3	180	195	210	2600	600	70.5	121	7/8-14UNF	3/4-16UNF
KAP1.5D0-D-11.0	11.0	170	185	200	2200	600	73	126	7/8-14UNF	3/4-16UNF
KAP1.5D0-D-13.8	13.8	150	165	180	1800	600	77	134	7/8-14UNF	3/4-16UNF

★ Use axial gap automatic compensation mechanism.

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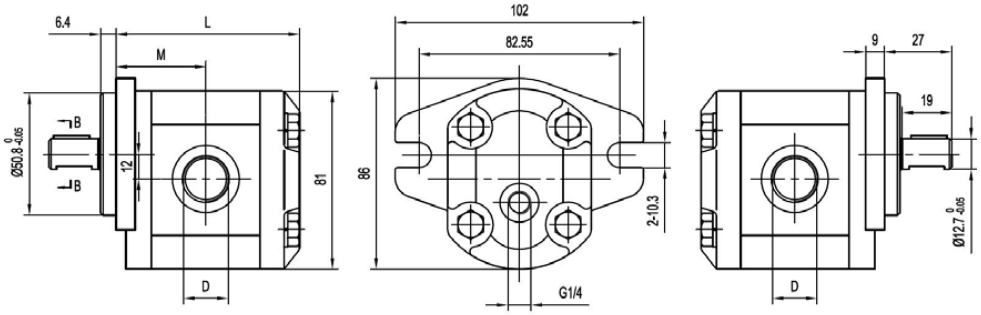
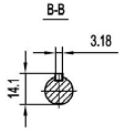
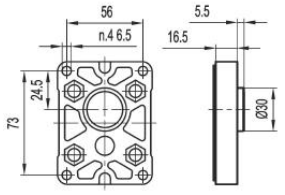




Type	Displacement	Max. pressure			Max.	Min.	Dimensions		
		P1	P2	P3	speed	speed	L	M	D
	(cm³/rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm	
KGM1.5A1-R-1.4-T3	1.4	250	270	290	6000	800	42	82.5	3/4-16UNF
KGM1.5A1-R-2.1-T3	2.1	250	270	290	6000	800	43	84.5	3/4-16UNF
KGM1.5A1-R-2.8-T3	2.8	250	270	290	5000	800	44	86.5	3/4-16UNF
KGM1.5A1-R-3.5-T3	3.5	250	270	290	5000	800	45	88.5	3/4-16UNF
KGM1.5A1-R-4.1-T3	4.1	250	270	290	4000	800	46	90.5	3/4-16UNF
KGM1.5A1-R-5.2-T3	5.2	230	250	270	4000	800	47.5	93.5	3/4-16UNF
KGM1.5A1-R-6.2-T3	6.2	230	250	270	3800	800	49	96.5	3/4-16UNF
KGM1.5A1-R-7.6-T3	7.6	200	215	230	3200	600	51	100.5	7/8-14UNF
KGM1.5A1-R-9.3-T3	9.3	180	195	210	2600	600	53.5	105.5	7/8-14UNF
KGM1.5A1-R-11.0-T3	11.0	170	185	200	2200	600	56	110.5	7/8-14UNF
KGM1.5A1-R-13.8-T3	13.8	150	165	180	1800	600	60	118.5	7/8-14UNF

FRONT COVER



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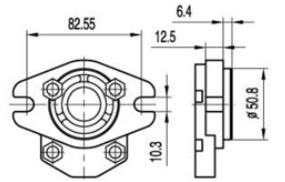

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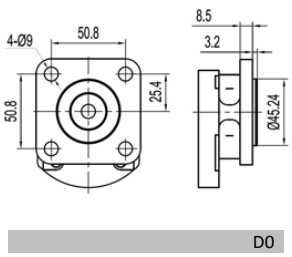

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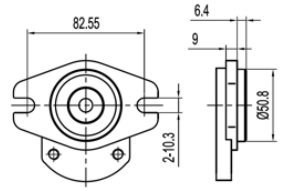

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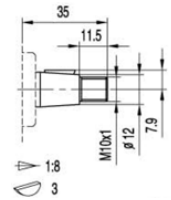
SHAFTS



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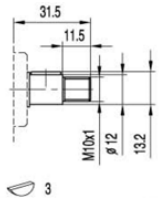

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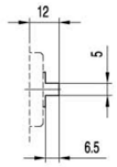

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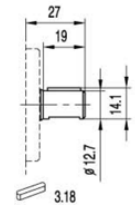

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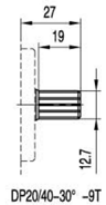

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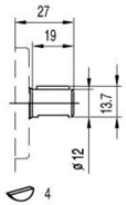

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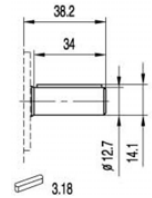

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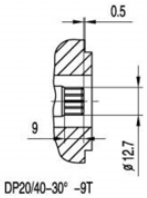

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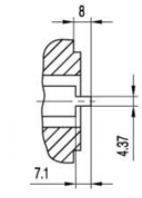

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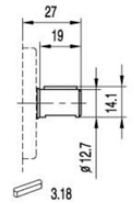

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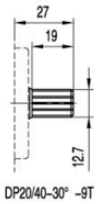

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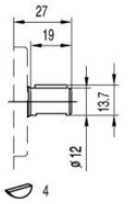
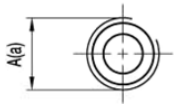


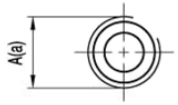
P3

PORTS



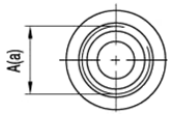
L2/L3/L4/L5

TYPE	CODE	INLET	OUTLET
		A	a
KAP1.5..1.4 ～ KAP1.5..3.5	L2	G3/8	G3/8
KAP1.5..1.4 ～ KAP1.5..3.5	L3	G1/2	G3/8
KAP1.5..4.1 ～ KAP1.5..13.8	L4	G1/2	G1/2
KAP1.5..4.1 ～ KAP1.5..13.8	L5	G3/4	G1/2



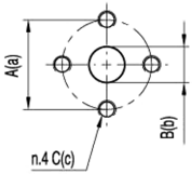
N0/N1/N2/N3

TYPE	CODE	INLET	OUTLET
		A	a
KAP1.5..1.4 ～ KAP1.5..6.2	N0	PT3/8	PT3/8
KAP1.5..1.4 ～ KAP1.5..6.2	N1	PT1/2	PT3/8
KAP1.5..1.4 ～ KAP1.5..13.8	N2	PT1/2	PT1/2
KAP1.5..7.6 ～ KAP1.5..13.8	N3	PT3/4	PT1/2



U0/U1/U2/U3

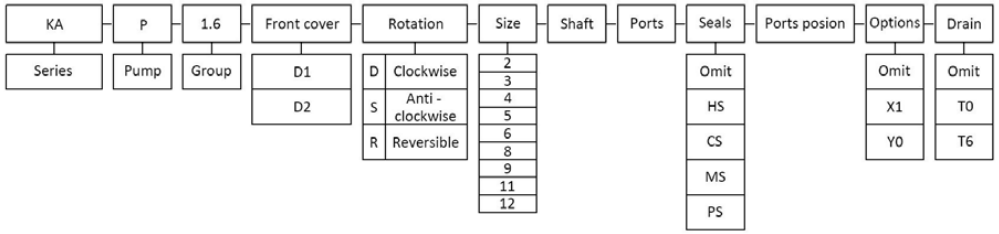
TYPE	CODE	INLET	OUTLET
		A	a
KAP1.5..1.4 ～ KAP1.5..6.2	U0	3/4-16UNF	9/16-18UNF
KAP1.5..1.4 ～ KAP1.5..6.2	U1	3/4-16UNF	3/4-16UNF
KAP1.5..7.6 ～ KAP1.5..13.8	U2	7/8-14UNF	3/4-16UNF
KAP1.5..7.6 ～ KAP1.5..13.8	U3	7/8-14UNF	7/8-14UNF



F2

TYPE	INLET			OUTLET		
	A	B	C	a	b	c
KAP1.5..1.4 ～ KAP1.5..13.8	30	13	M6	30	13	M6

HOW TO ORDER



Seals

Omit - Range between -10℃and +80℃， inlet pressure up to max. 3 bar absolute (standard seal) .

HS - Version suitable for fluid at hi-temperatures , range between -10℃and +120℃ .

CS - Version suitable for fluid at low-temperatures , range between -40℃and +80℃ .

MS - Version suitable for inlet pressure up to max. 3 and 6 bar absolute .

PS - Version suitable for inlet pressure up to max. 3 and 10 bar absolute .

Options

Omit - have no valve .

X1 - Pressure relief valve with internal drain .

Y0 - Pressure relief valve with external drain .

Drain

Omit - Have no drain .

T0 - Internal drain .

T6 - External drain PT1/4 .

Examples

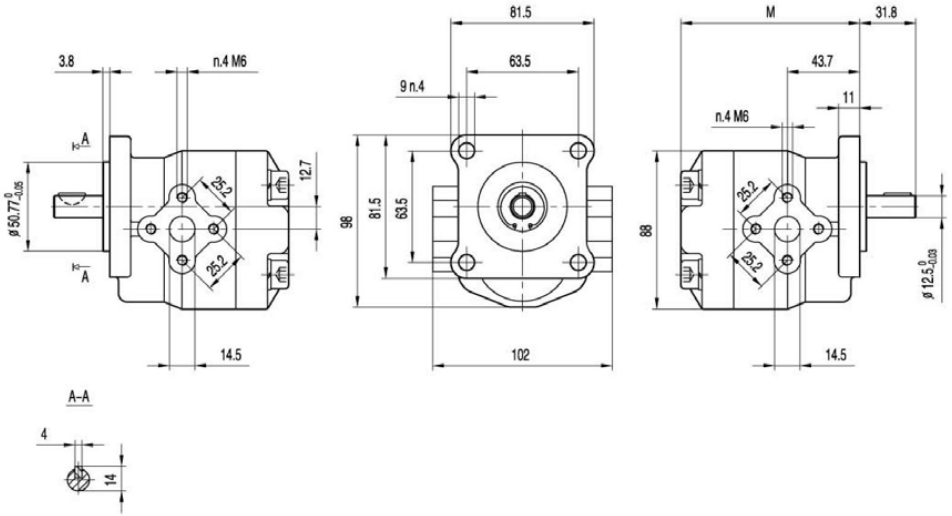
KAP1.6D1-S-8P5F19 = KA series , 1.6 group pump , D1 front cover , Anti-clockwise , 8 cc/rev , P5 shaft , F19 ports , standard seal , side inlet and side outlet .

★ Use axial gap automatic compensation mechanism.

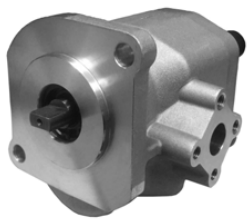
★ High sustained working pressure and long service life .

★ Anti fouling ability is strong and suitable for power units,machines and other kinds Of hydraulic systems .

INLET OUTLET



Type	Displacement	Max. pressure			Max. speed	Min. speed	Dimensions
		P1	P2	P3			M
	(cm³/rev)	bar	bar	bar	(r/min)	(r/min)	mm
KAP1.6D1-S-2	2	210	230	250	5000	900	96.7
KAP1.6D1-S-3	3	210	230	250	5000	850	96.7
KAP1.6D1-S-4	4	210	230	250	4500	800	96.7
KAP1.6D1-S-5	5	210	230	250	4000	800	96.7
KAP1.6D1-S-6	6	210	230	250	3500	700	99.7
KAP1.6D1-S-8	8	210	230	250	3000	600	99.7
KAP1.6D1-S-9	9	180	200	220	2500	550	102.7
KAP1.6D1-S-11	11	180	200	220	2000	500	105.7
KAP1.6D1-S-12	12	180	200	220	2000	500	105.7



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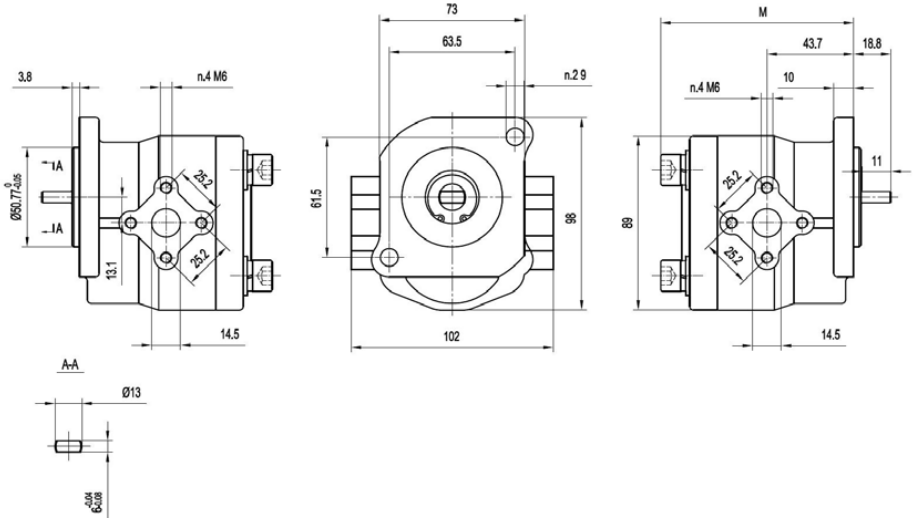
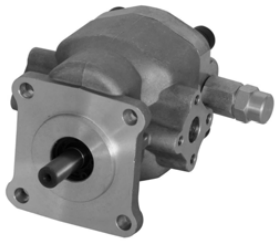
INLET OUTLET



Type	Displacement	Max. pressure			Max. speed	Min. speed	Dimensions
		P1	P2	P3			M
	(cm³/rev)	bar	bar	bar	(r/min)	(r/min)	mm
KAP1.6D2-S-2	2	210	230	250	5000	900	96.7
KAP1.6D2-S-3	3	210	230	250	5000	850	96.7
KAP1.6D2-S-4	4	210	230	250	4500	800	96.7
KAP1.6D2-S-5	5	210	230	250	4000	800	96.7
KAP1.6D2-S-6	6	210	230	250	3500	700	99.7
KAP1.6D2-S-8	8	210	230	250	3000	600	99.7
KAP1.6D2-S-9	9	180	200	220	2500	550	102.7
KAP1.6D2-S-11	11	180	200	220	2000	500	105.7
KAP1.6D2-S-12	12	180	200	220	2000	500	105.7



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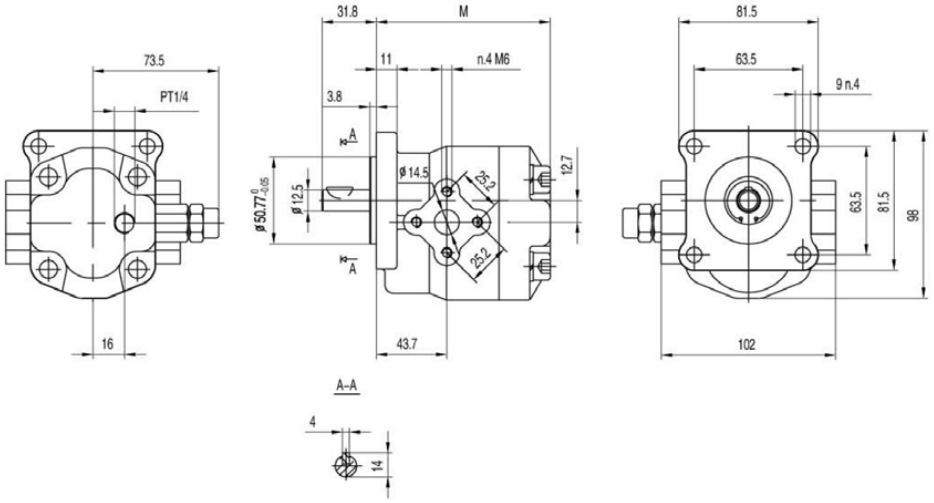
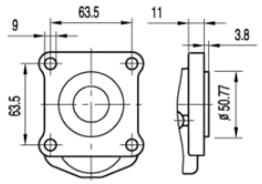
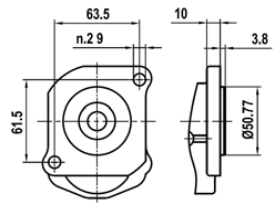


Type	Displacement	Max. pressure			Max. speed	Min. speed	Dimensions
		P1	P2	P3			M
	(cm³/rev)	bar	bar	bar	(r/min)	(r/min)	mm
KAP1.6D1-D-2-Y0T6	2	210	230	250	5000	900	96.7
KAP1.6D1-D-3-Y0T6	3	210	230	250	5000	850	96.7
KAP1.6D1-D-4-Y0T6	4	210	230	250	4500	800	96.7
KAP1.6D1-D-5-Y0T6	5	210	230	250	4000	800	96.7
KAP1.6D1-D-6-Y0T6	6	210	230	250	3500	700	99.7
KAP1.6D1-D-8-Y0T6	8	210	230	250	3000	600	99.7
KAP1.6D1-D-9-Y0T6	9	180	200	220	2500	550	102.7
KAP1.6D1-D-11-Y0T6	11	180	200	220	2000	500	105.7
KAP1.6D1-D-12-Y0T6	12	180	200	220	2000	500	105.7

FRONT COVER

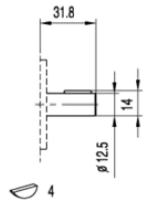


D1

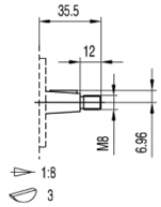


D2

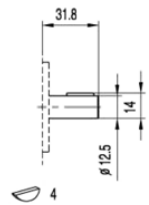
SHAFTS



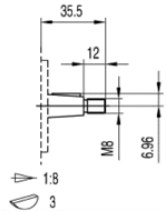
P5



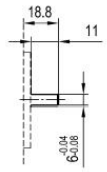
Z4



P5

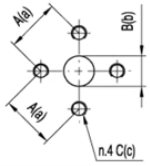


Z4



B8

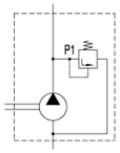
PORTS



F19

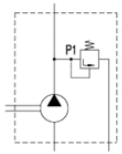
TYPE	INLET			OUTLET		
	A	B	C	a	b	c
KAP1.6..2 ～ KAP1.6..12	25.2	14.5	M6	25.2	14.5	M6

OPTIONS



X1

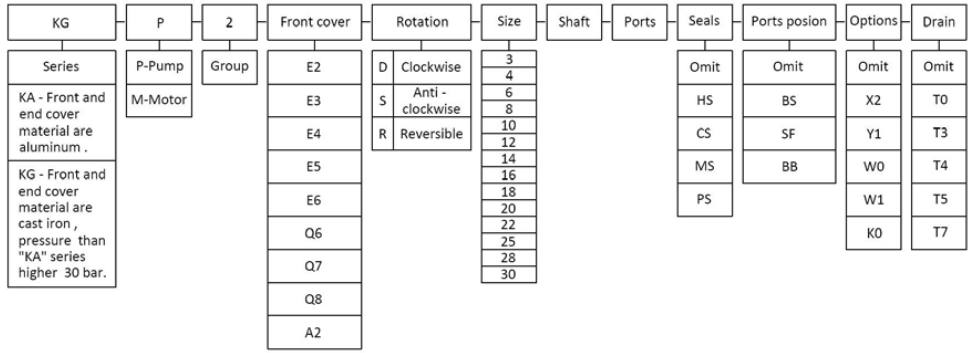
DISCRIPTION
Pressure relief valve with internal drain ; setting pressure between 5 and 230 bar .



Y0

DISCRIPTION
Pressure relief valve with external drain ; setting pressure between 5 and 230 bar .

HOW TO ORDER



Seals

Omit - Range between -10℃and +80℃， inlet pressure up to max. 3 bar absolute (standard seal) .

HS - Version suitable for fluid at hi-temperatures , range between -10℃and +120℃ .

CS - Version suitable for fluid at low-temperatures , range between -40℃and +80℃ .

MS - Version suitable for inlet pressure up to max. 3 and 6 bar absolute .

PS - Version suitable for inlet pressure up to max. 3 and 10 bar absolute .

Ports position

Omit - Side inlet and side outlet .

BS - Back inlet and side outlet .

SF - Side inlet and front outlet .

BB - Back inlet and back outlet

Options

Omit - Have no valves .

X2 - Pressure valve with internal drain .

Y1 - Pressure valve with external drain.

W0 - Flow control vale with pressure valve .

W1 - Flow control vale with pressure valve .

K0 - Flow control vale .

Drain

Omit - Have no drain .

T0 - Internal drain .

T3 - External drain G1/4 .

T4 - External drain 7/16-20 UNF .

T5 - External drain 9/16-18 UNF .

T7 - External drain M12×1.5 .

Examples

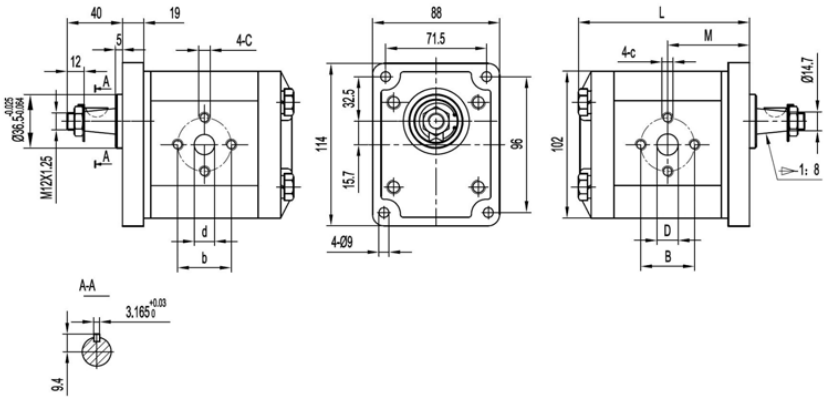
KGP2E2-D-12Z5F9 = KG series , 2 group pump , E2 front cover , clockwise , 12 cc/rev , Z5 shaft , F9 ports , standard seal , side inlet and side outlet .

★ Use axial gap automatic compensation mechanism.

★ High sustained working pressure and long service life .

★ Anti fouling ability is strong and suitable for tractors , power units , machines and other kinds 0f hydraulic systems .

OUTLET INLET



Type	Displacement	Max. pressure			Max. speed	Min. speed	Dimensions							
		P1	P2	P3			M	L	B	D	b	d	C	c
	(cm^3/rev)	bar	bar	bar	(r/min)	(r/min)	mm							
KGP2E2-D-3	3	270	285	300	4000	800	43.6	91.1	30	13	30	13	M6	M6
KGP2E2-D-4	4	270	285	300	4000	600	44.4	92.7	30	13	30	13	M6	M6
KGP2E2-D-6	6	270	285	300	4000	600	46	96	30	13	30	13	M6	M6
KGP2E2-D-8	8	270	285	300	3500	500	47.7	99.3	30	13	30	13	M6	M6
KGP2E2-D-10	10	270	285	300	3000	500	49.3	102.6	40	20	30	13	M8	M6
KGP2E2-D-12	12	270	285	300	3000	500	51	105.9	40	20	30	13	M8	M6
KGP2E2-D-14	14	250	265	280	3000	500	52.7	109.3	40	20	30	13	M8	M6
KGP2E2-D-16	16	250	265	280	3000	500	54.4	112.7	40	20	30	13	M8	M6
KGP2E2-D-18	18	250	265	280	3000	500	56	116	40	20	30	13	M8	M6
KGP2E2-D-20	20	220	235	250	3000	400	57.7	119.3	40	20	30	13	M8	M6
KGP2E2-D-22	22	220	235	250	3000	400	59.3	122.6	40	20	30	13	M8	M6
KGP2E2-D-25	25	200	215	230	3000	400	61.8	127.6	40	22	30	13	M8	M6
KGP2E2-D-28	28	180	190	200	3000	400	64.3	132.6	40	22	30	13	M8	M6
KGP2E2-D-30	30	160	170	180	3000	400	66	135.9	40	22	30	13	M8	M6

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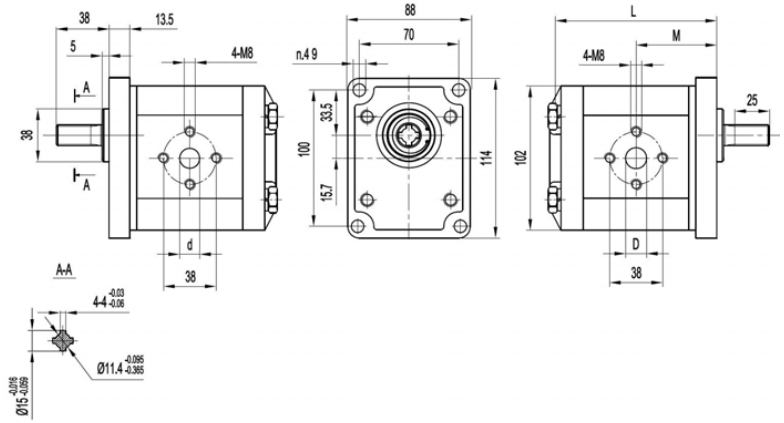
★ High sustained working pressure and long service life .

★ Anti fouling ability is strong and suitable for tractors , power units , machines and other kinds 0f hydraulic systems .

OUTLET INLET



Type	Displacement	Max. pressure			Max. speed	Min. speed	Dimensions			
		P1	P2	P3			M	L	D	d
	(cm^3/rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm	mm
KGP2E3-D-3	3	250	265	280	4000	800	43.6	91.1	14	10
KGP2E3-D-4	4	250	265	280	4000	600	44.4	92.7	14	10
KGP2E3-D-6	6	250	265	280	4000	600	46	96	14	10
KGP2E3-D-8	8	250	265	280	3500	500	47.7	99.3	14	10
KGP2E3-D-10	10	250	265	280	3000	500	49.3	102.6	18	15
KGP2E3-D-12	12	250	265	280	3000	500	51	105.9	18	15
KGP2E3-D-14	14	220	235	250	3000	500	52.7	109.3	18	15
KGP2E3-D-16	16	220	235	250	3000	500	54.4	112.7	18	15
KGP2E3-D-18	18	220	235	250	3000	500	56	116	18	15
KGP2E3-D-20	20	220	235	250	3000	400	57.7	119.3	18	15
KGP2E3-D-22	22	200	215	230	3000	400	59.3	122.6	18	15
KGP2E3-D-25	25	200	215	230	3000	400	61.8	127.6	20	15
KGP2E3-D-28	28	180	190	200	3000	400	64.3	132.6	20	15
KGP2E3-D-30	30	160	170	180	3000	400	66	135.9	20	15

★ Use axial gap automatic compensation mechanism.

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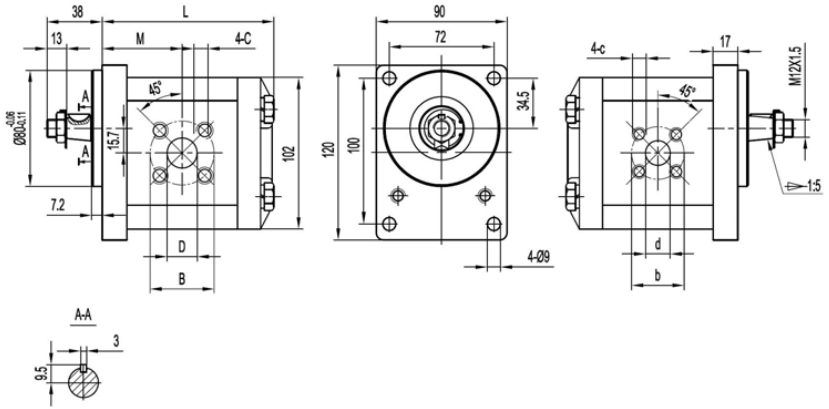
INLET OUTLET



Type	Displacement	Max. pressure			Max.	Min.	Dimensions							
		P1	P2	P3	speed	speed	M	L	B	D	C	b	d	c
	(cm³/rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm	mm		mm	mm	
KGP2E4-S-3	3	270	285	300	4000	800	43.6	91.1	40	15	M6	35	15	M6
KGP2E4-S-4	4	270	285	300	4000	600	44.4	92.7	40	15	M6	35	15	M6
KGP2E4-S-6	6	270	285	300	4000	600	46	96	40	15	M6	35	15	M6
KGP2E4-S-8	8	270	285	300	3500	500	47.7	99.3	40	15	M6	35	15	M6
KGP2E4-S-10	10	270	285	300	3000	500	49.3	102.6	40	20	M6	35	15	M6
KGP2E4-S-12	12	270	285	300	3000	500	51	105.9	40	20	M6	35	15	M6
KGP2E4-S-14	14	250	265	280	3000	500	52.7	109.3	40	20	M6	35	15	M6
KGP2E4-S-16	16	250	265	280	3000	500	54.4	112.7	40	20	M6	35	15	M6
KGP2E4-S-18	18	250	265	280	3000	500	56	116	40	20	M6	35	15	M6
KGP2E4-S-20	20	220	235	250	3000	400	57.7	119.3	40	20	M6	35	15	M6
KGP2E4-S-22	22	220	235	250	3000	400	59.3	122.6	40	20	M6	35	15	M6
KGP2E4-S-25	25	200	215	230	3000	400	61.8	127.6	40	20	M6	35	15	M6
KGP2E4-S-28	28	180	190	200	3000	400	64.3	132.6	40	20	M6	35	15	M6
KGP2E4-S-30	30	160	170	180	3000	400	66	135.9	40	20	M6	35	15	M6

★ Use axial gap automatic compensation mechanism.

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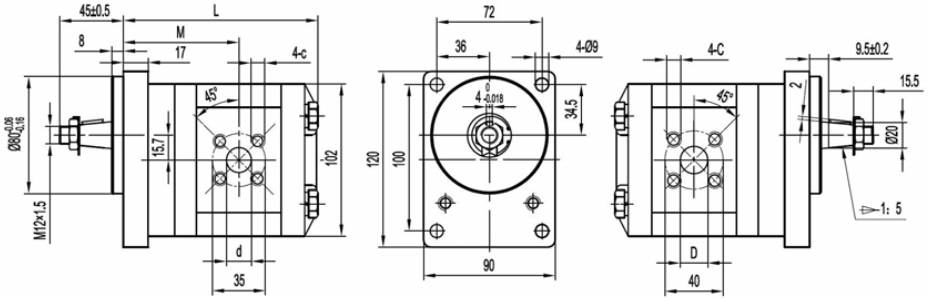
OUTLET INLET



Type	Displacement	Max. pressure			Max.	Min.	Dimensions			
		P1	P2	P3	speed	speed	M	L	D	d
	(cm³/rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm	mm
KGP2E5-D-3	3	250	265	280	4000	800	71.9	123.1	15	15
KGP2E5-D-4	4	250	265	280	4000	600	71.9	124.7	15	15
KGP2E5-D-6	6	250	265	280	4000	600	73.1	128.0	15	15
KGP2E5-D-8	8	250	265	280	3500	500	75.2	131.3	15	15
KGP2E5-D-10	10	250	265	280	3000	500	75.7	134.6	20	15
KGP2E5-D-12	12	250	265	280	3000	500	79.5	137.9	20	15
KGP2E5-D-14	14	220	235	250	3000	500	79.5	141.3	20	15
KGP2E5-D-16	16	220	235	250	3000	500	79.5	144.7	20	15
KGP2E5-D-18	18	220	235	250	3000	500	79.5	148.0	20	15
KGP2E5-D-20	20	220	235	250	3000	400	79.5	151.3	20	15
KGP2E5-D-22	22	200	215	230	3000	400	87.1	154.6	20	15
KGP2E5-D-25	25	200	215	230	3000	400	93.8	159.6	20	15
KGP2E5-D-28	28	180	190	200	3000	400	96.3	164.6	20	15
KGP2E5-D-30	30	160	170	180	3000	400	98.0	167.9	20	15

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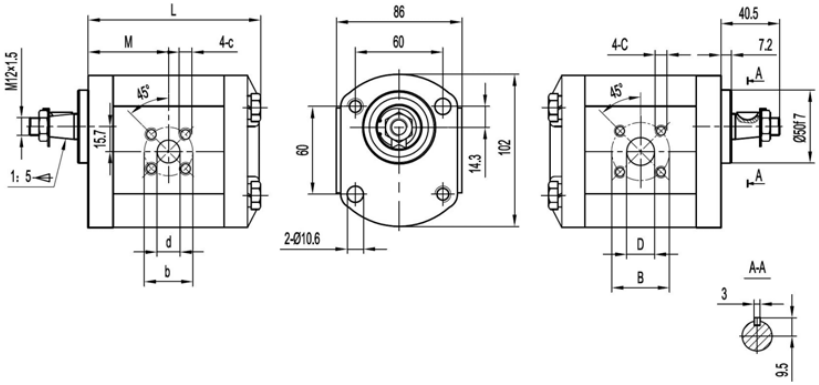
OUTLET **INLET**



Type	Displacement	Max. pressure			Max. speed	Min. speed	Dimensions							
		P1	P2	P3			M	L	B	D	C	b	d	c
	(cm³/rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm	mm		mm	mm	
KGP2Q6-D-3	3	270	285	300	4000	800	37.4	88.6	40	15	M6	35	15	M6
KGP2Q6-D-4	4	270	285	300	4000	600	37.4	90.2	40	15	M6	35	15	M6
KGP2Q6-D-6	6	270	285	300	4000	600	38.6	93.5	40	15	M6	35	15	M6
KGP2Q6-D-8	8	270	285	300	3500	500	40.7	96.8	40	15	M6	35	15	M6
KGP2Q6-D-10	10	270	285	300	3000	500	41.2	100.1	40	20	M6	35	15	M6
KGP2Q6-D-12	12	270	285	300	3000	500	45	103.4	40	20	M6	35	15	M6
KGP2Q6-D-14	14	250	265	280	3000	500	45	106.8	40	20	M6	35	15	M6
KGP2Q6-D-16	16	250	265	280	3000	500	45	110.2	40	20	M6	35	15	M6
KGP2Q6-D-18	18	250	265	280	3000	500	45	113.5	40	20	M6	35	15	M6
KGP2Q6-D-20	20	220	235	250	3000	400	45	116.8	40	20	M6	35	15	M6
KGP2Q6-D-22	22	220	235	250	3000	400	52.6	120.1	40	20	M6	35	15	M6
KGP2Q6-D-25	25	200	215	230	3000	400	59.3	125.1	40	20	M6	35	15	M6
KGP2Q6-D-28	28	180	190	200	3000	400	61.8	130.1	40	20	M6	35	15	M6
KGP2Q6-D-30	30	160	170	180	3000	400	63.5	133.4	40	20	M6	35	15	M6

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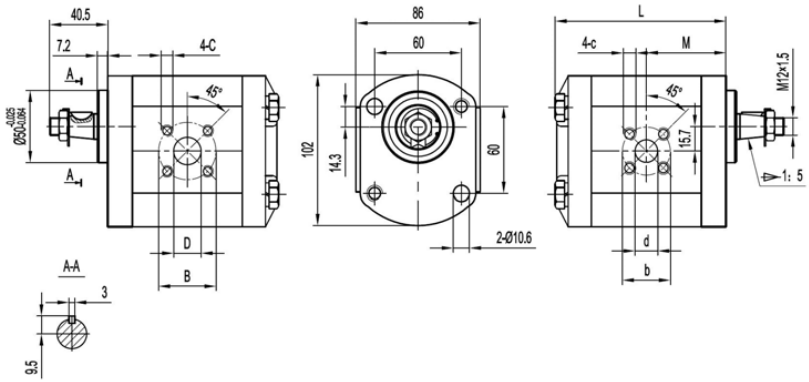
INLET **OUTLET**



Type	Displacement	Max. pressure			Max. speed	Min. speed	Dimensions							
		P1	P2	P3			M	L	B	D	C	b	d	c
	(cm³/rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm	mm		mm	mm	
KGP2Q7-S-3	3	270	285	300	4000	800	37.4	88.6	40	15	M6	35	15	M6
KGP2Q7-S-4	4	270	285	300	4000	600	37.4	90.2	40	15	M6	35	15	M6
KGP2Q7-S-6	6	270	285	300	4000	600	38.6	93.5	40	15	M6	35	15	M6
KGP2Q7-S-8	8	270	285	300	3500	500	40.7	96.8	40	15	M6	35	15	M6
KGP2Q7-S-10	10	270	285	300	3000	500	41.2	100.1	40	20	M6	35	15	M6
KGP2Q7-S-12	12	270	285	300	3000	500	45	103.4	40	20	M6	35	15	M6
KGP2Q7-S-14	14	250	265	280	3000	500	45	106.8	40	20	M6	35	15	M6
KGP2Q7-S-16	16	250	265	280	3000	500	45	110.2	40	20	M6	35	15	M6
KGP2Q7-S-18	18	250	265	280	3000	500	45	113.5	40	20	M6	35	15	M6
KGP2Q7-S-20	20	220	235	250	3000	400	45	116.8	40	20	M6	35	15	M6
KGP2Q7-S-22	22	220	235	250	3000	400	52.6	120.1	40	20	M6	35	15	M6
KGP2Q7-S-25	25	200	215	230	3000	400	59.3	125.1	40	20	M6	35	15	M6
KGP2Q7-S-28	28	180	190	200	3000	400	61.8	130.1	40	20	M6	35	15	M6
KGP2Q7-S-30	30	160	170	180	3000	400	63.5	133.4	40	20	M6	35	15	M6

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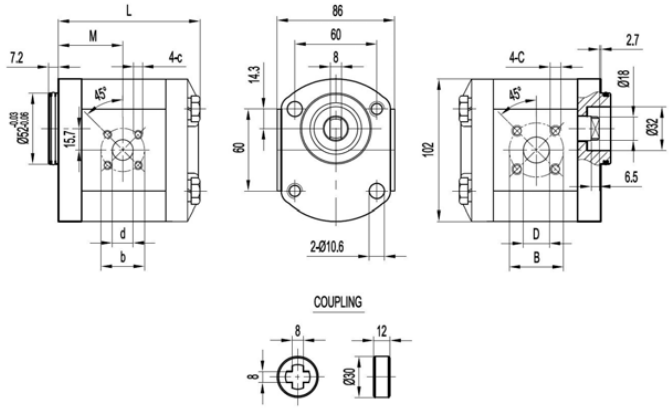
OUTLET **INLET**



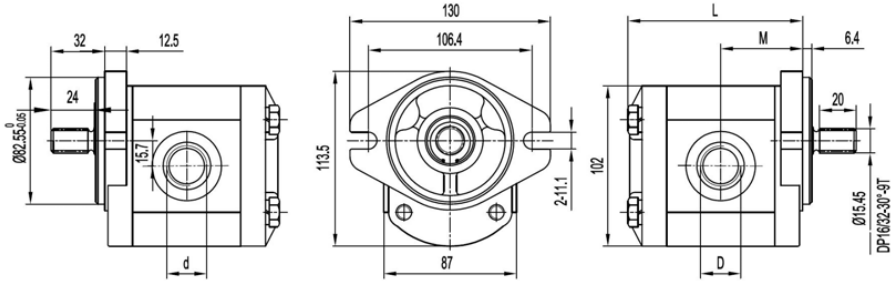
Type	Displacement	Max. pressure			Max.	Min.	Dimensions							
		P1	P2	P3	speed	speed	M	L	B	D	C	b	d	c
	(cm³/rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm	mm		mm	mm	
KGP2Q8-D-3	3	270	285	300	4000	800	37.4	88.6	40	15	M6	35	15	M6
KGP2Q8-D-4	4	270	285	300	4000	600	37.4	90.2	40	15	M6	35	15	M6
KGP2Q8-D-6	6	270	285	300	4000	600	38.6	93.5	40	15	M6	35	15	M6
KGP2Q8-D-8	8	270	285	300	3500	500	40.7	96.8	40	15	M6	35	15	M6
KGP2Q8-D-10	10	270	285	300	3000	500	41.2	100.1	40	20	M6	35	15	M6
KGP2Q8-D-12	12	270	285	300	3000	500	45	103.4	40	20	M6	35	15	M6
KGP2Q8-D-14	14	250	265	280	3000	500	45	106.8	40	20	M6	35	15	M6
KGP2Q8-D-16	16	250	265	280	3000	500	45	110.2	40	20	M6	35	15	M6
KGP2Q8-D-18	18	250	265	280	3000	500	45	113.5	40	20	M6	35	15	M6
KGP2Q8-D-20	20	220	235	250	3000	400	45	116.8	40	20	M6	35	15	M6
KGP2Q8-D-22	22	220	235	250	3000	400	52.6	120.1	40	20	M6	35	15	M6
KGP2Q8-D-25	25	200	215	230	3000	400	59.3	125.1	40	20	M6	35	15	M6
KGP2Q8-D-28	28	180	190	200	3000	400	61.8	130.1	40	20	M6	35	15	M6
KGP2Q8-D-30	30	160	170	180	3000	400	63.5	133.4	40	20	M6	35	15	M6

★ Use axial gap automatic compensation mechanism.

★ High sustained working pressure and long service life .

★ Anti fouling ability is strong and suitable for tractors , power units , machines and other kinds 0f hydraulic systems .

OUTLET **INLET**



Type	Displacement	Max. pressure			Max.	Min.	Dimensions			
		P1	P2	P3	speed	speed	M	L	D	d
	(cm³/rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm		
KGP2A2-D-3	3	270	285	300	4000	800	43.6	91.1	G1/2	G1/2
KGP2A2-D-4	4	270	285	300	4000	600	44.4	92.7	G1/2	G1/2
KGP2A2-D-6	6	270	285	300	4000	600	46	96	G1/2	G1/2
KGP2A2-D-8	8	270	285	300	3500	500	47.7	99.3	G3/4	G1/2
KGP2A2-D-10	10	270	285	300	3000	500	49.3	102.6	G3/4	G1/2
KGP2A2-D-12	12	270	285	300	3000	500	51	105.9	G3/4	G1/2
KGP2A2-D-14	14	250	265	280	3000	500	52.7	109.3	G3/4	G1/2
KGP2A2-D-16	16	250	265	280	3000	500	54.4	112.7	G3/4	G1/2
KGP2A2-D-18	18	250	265	280	3000	500	56	116	G3/4	G1/2
KGP2A2-D-20	20	220	235	250	3000	400	57.7	119.3	G3/4	G1/2
KGP2A2-D-22	22	220	235	250	3000	400	59.3	122.6	G3/4	G1/2
KGP2A2-D-25	25	200	215	230	3000	400	61.8	127.6	G3/4	G1/2
KGP2A2-D-28	28	180	190	200	3000	400	64.3	132.6	G1	G3/4
KGP2A2-D-30	30	160	170	180	3000	400	66	135.9	G1	G3/4

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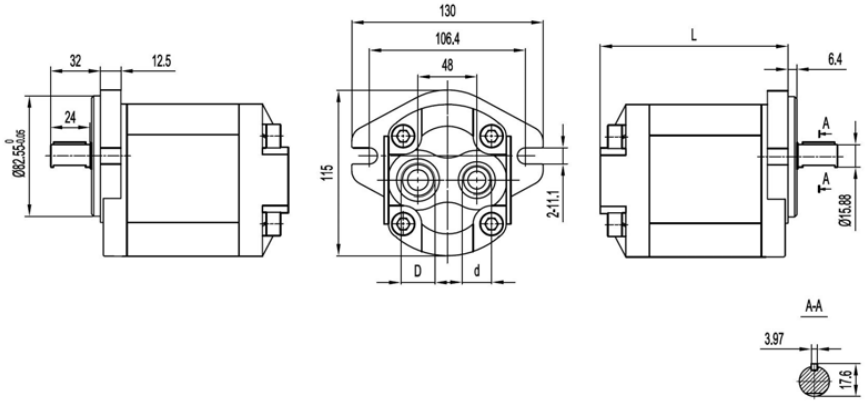
INLET OUTLET



Type	Displacement	Max. pressure			Max. speed	Min. speed	Dimensions		
		P1	P2	P3			L	D	d
	(cm³/rev)	bar	bar	bar	(r/min)	(r/min)	mm		
KGP2A2-S-3-BB	3	270	285	300	4000	800	103.1	1 1/16-12UNF	7/8-14UNF
KGP2A2-S-4-BB	4	270	285	300	4000	600	104.7	1 1/16-12UNF	7/8-14UNF
KGP2A2-S-6-BB	6	270	285	300	4000	600	108	1 1/16-12UNF	7/8-14UNF
KGP2A2-S-8-BB	8	270	285	300	3500	500	111.3	1 1/16-12UNF	7/8-14UNF
KGP2A2-S-10-BB	10	270	285	300	3000	500	114.6	1 1/16-12UNF	7/8-14UNF
KGP2A2-S-12-BB	12	270	285	300	3000	500	117.9	1 1/16-12UNF	7/8-14UNF
KGP2A2-S-14-BB	14	250	265	280	3000	500	121.3	1 1/16-12UNF	7/8-14UNF
KGP2A2-S-16-BB	16	250	265	280	3000	500	124.7	1 1/16-12UNF	7/8-14UNF
KGP2A2-S-18-BB	18	250	265	280	3000	500	128	1 1/16-12UNF	7/8-14UNF
KGP2A2-S-20-BB	20	220	235	250	3000	400	131.3	1 1/16-12UNF	7/8-14UNF
KGP2A2-S-22-BB	22	220	235	250	3000	400	134.6	1 1/16-12UNF	7/8-14UNF
KGP2A2-S-25-BB	25	200	215	230	3000	400	139.6	1 1/16-12UNF	7/8-14UNF
KGP2A2-S-28-BB	28	180	190	200	3000	400	144.6	1 1/16-12UNF	7/8-14UNF
KGP2A2-S-30-BB	30	160	170	180	3000	400	147.9	1 5/16-12UNF	7/8-14UNF

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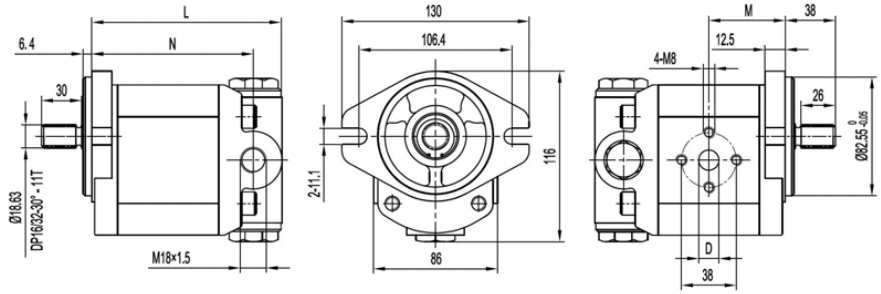
★ High sustained working pressure and long service life .

★ Anti fouling ability is strong and suitable for tractors , power units , machines and other kinds Of hydraulic systems .

OUTLET INLET



Type	Displacement	Control pressure	Control flow	Max. speed	Min. speed	Dimensions			
						L	M	N	D
	(cm³/rev)	bar	L/min	(r/min)	(r/min)	mm	mm	mm	mm
KGP2A2-D-3-W0T0	3	100～180	2～30	4000	800	112.1	43.6	92.1	14
KGP2A2-D-4-W0T0	4			4000	600	113.7	44.4	93.7	14
KGP2A2-D-6-W0T0	6			4000	600	117	46	97	14
KGP2A2-D-8-W0T0	8			3500	500	120.3	47.7	100.3	14
KGP2A2-D-10-W0T0	10			3000	500	123.6	49.3	103.6	18
KGP2A2-D-12-W0T0	12			3000	500	126.9	51	106.9	18
KGP2A2-D-14-W0T0	14			3000	500	130.3	52.7	110.3	18
KGP2A2-D-16-W0T0	16			3000	500	133.7	54.4	113.7	18
KGP2A2-D-18-W0T0	18			3000	500	137	56	117	18
KGP2A2-D-20-W0T0	20			3000	400	140.3	57.7	120.3	18
KGP2A2-D-22-W0T0	22			3000	400	143.6	59.3	123.6	20
KGP2A2-D-25-W0T0	25			3000	400	148.6	61.8	128.6	20
KGP2A2-D-28-W0T0	28			3000	400	153.6	64.3	133.6	20
KGP2A2-D-30-W0T0	30			3000	400	156.9	66	136.9	20

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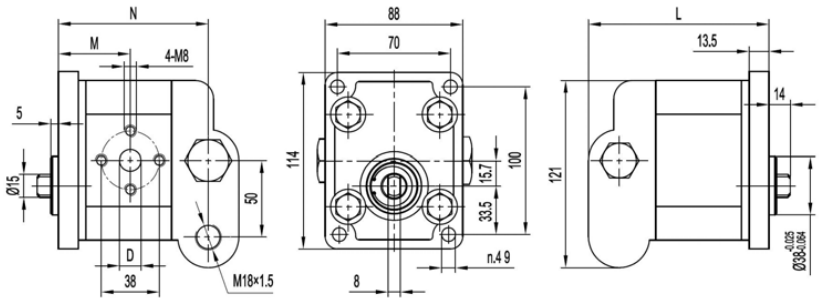
INLET OUTLET



Type	Displacement	Control pressure	Control flow	Max. speed	Min. speed	Dimensions			
						L	M	N	D
	(cm³/rev)	bar	L/min	(r/min)	(r/min)	mm	mm	mm	mm
KGP2E6-D-3-W1T0	3	100～180	2～30	4000	800	112.1	43.6	96.1	13
KGP2E6-D-4-W1T0	4			4000	600	113.7	44.4	97.7	13
KGP2E6-D-6-W1T0	6			4000	600	117	46	101	13
KGP2E6-D-8-W1T0	8			3500	500	120.3	47.7	104.3	13
KGP2E6-D-10-W1T0	10			3000	500	123.6	49.3	107.6	19
KGP2E6-D-12-W1T0	12			3000	500	126.9	51	110.9	19
KGP2E6-D-14-W1T0	14			3000	500	130.3	52.7	114.3	19
KGP2E6-D-16-W1T0	16			3000	500	133.7	54.4	117.7	19
KGP2E6-D-18-W1T0	18			3000	500	137	56	121	19
KGP2E6-D-20-W1T0	20			3000	400	140.3	57.7	124.3	19
KGP2E6-D-22-W1T0	22			3000	400	143.6	59.3	127.6	19
KGP2E6-D-25-W1T0	25			3000	400	148.6	61.8	132.6	19
KGP2E6-D-28-W1T0	28			3000	400	153.6	64.3	137.6	19
KGP2E6-D-30-W1T0	30			3000	400	156.9	66	140.9	21

★ Use axial gap automatic compensation mechanism.

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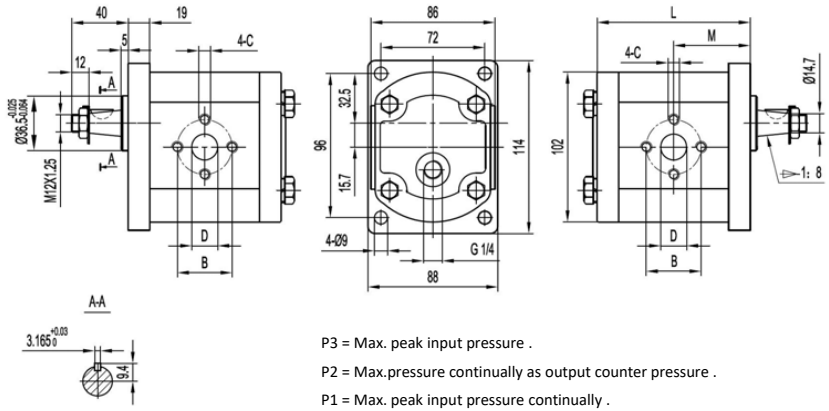


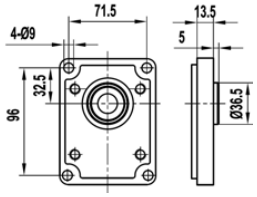
P3 = Max. peak input pressure .

P2 = Max.pressure continually as output counter pressure .

P1 = Max. peak input pressure continually .

Type	Displacement	Max. pressure			Max. speed	Min. speed	Dimensions				
		P1	P2	P3			M	L	B	D	H
	(cm³/rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm	mm	
KGM2E2-R-3	3	270	285	300	4000	800	43.6	91.1	30	13	M6
KGM2E2-R-4	4	270	285	300	4000	600	44.4	92.7	30	13	M6
KGM2E2-R-6	6	270	285	300	4000	600	46	96	30	13	M6
KGM2E2-R-8	8	270	285	300	3500	500	47.7	99.3	30	13	M6
KGM2E2-R-10	10	270	285	300	3000	500	49.3	102.6	40	20	M8
KGM2E2-R-12	12	270	285	300	3000	500	51	105.9	40	20	M8
KGM2E2-R-14	14	250	265	280	3000	500	52.7	109.3	40	20	M8
KGM2E2-R-16	16	250	265	280	3000	500	54.4	112.7	40	20	M8
KGM2E2-R-18	18	250	265	280	3000	500	56	116	40	20	M8
KGM2E2-R-20	20	220	235	250	3000	400	57.7	119.3	40	20	M8
KGM2E2-R-22	22	220	235	250	3000	400	59.3	122.6	40	20	M8
KGM2E2-R-25	25	200	215	230	3000	400	61.8	127.6	40	22	M8
KGM2E2-R-28	28	180	190	200	3000	400	64.3	132.6	40	22	M8
KGM2E2-R-30	30	160	170	180	3000	400	66	135.9	40	22	M8

FRONT COVER



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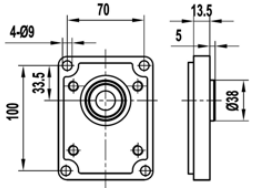

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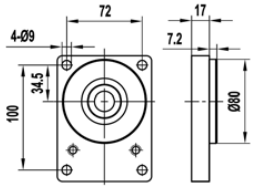

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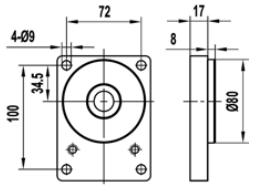

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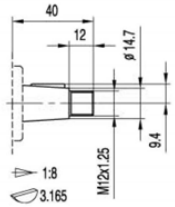
SHAFTS



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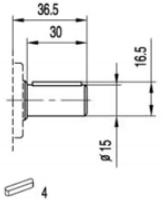

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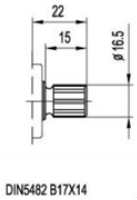

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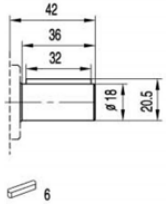

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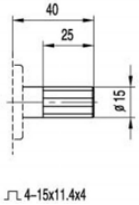

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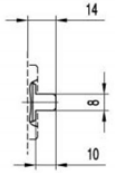

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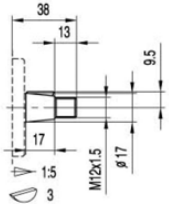

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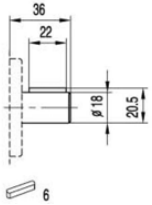

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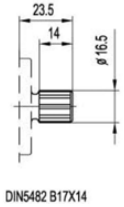

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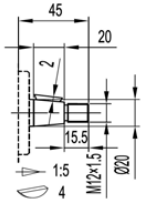

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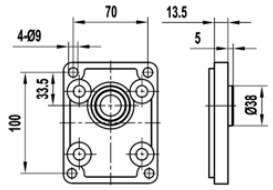
FRONT COVER



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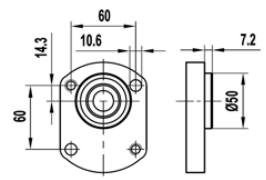

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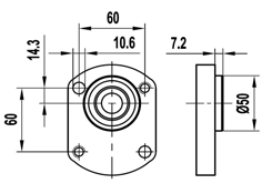

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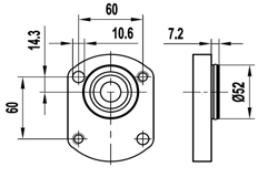

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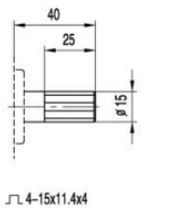

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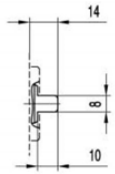

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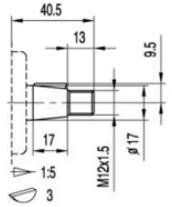

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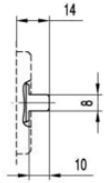

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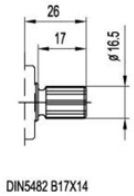
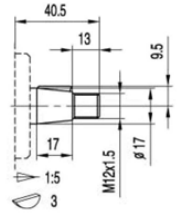


J4



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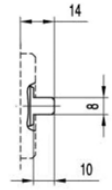
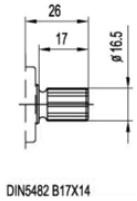
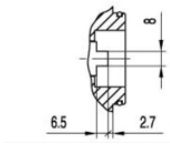


B6

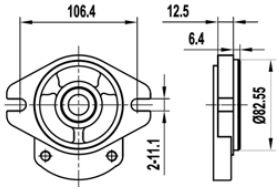


J4



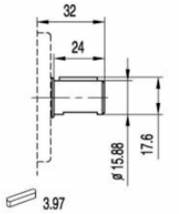
B7

FRONT COVER

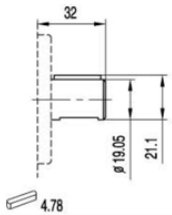


A2

SHAFTS



P9



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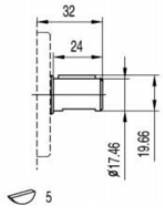

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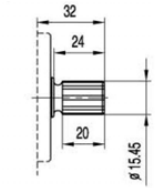
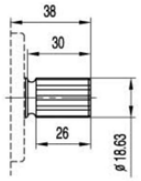


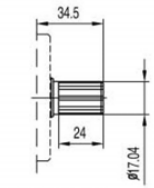
DP16/32-30° -9T

J5



DP16/32-30° -11T

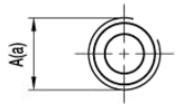
J6



DP16/32-30° -10T

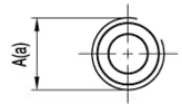
J7

PORTS



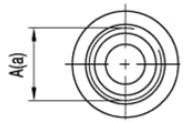
L4/L5/L6/L8

TYPE	CODE	INLET	OUTLET
		A	a
KG(A)P2..3 ~ KG(A)P2..6	L4	G1/2	G1/2
KG(A)P2..8 ~ KG(A)P2..30	L5	G3/4	G1/2
KG(A)P2..8 ~ KG(A)P2..30	L6	G3/4	G3/4
KG(A)P2..16 ~ KG(A)P2..30	L8	G1	G3/4



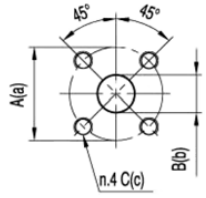
N2/N3/N5

TYPE	CODE	INLET	OUTLET
		A	a
KG(A)P2..3 ~ KG(A)P2..12	N2	PT1/2	PT1/2
KG(A)P2..14 ~ KG(A)P2..25	N3	PT3/4	PT1/2
KG(A)P2..28 ~ KG(A)P2..30	N5	PT1	PT3/4



U2/U4/U6/U7

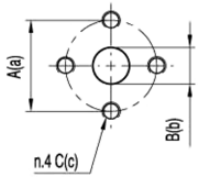
TYPE	CODE	INLET	OUTLET
		A	a
KG(A)P2..3 ~ KG(A)P2..28	U2	7/8-14UNF	3/4-16UNF
KG(A)P2..3 ~ KG(A)P2..28	U4	1 1/16-12UNF	7/8-14UNF
KG(A)P2..30	U6	1 5/16-12UNF	7/8-14UNF
KG(A)P2..8 ~ KGP(A)2..30	U7	1 5/16-12UNF	1 1/16-12UNF



F30/F31/F35

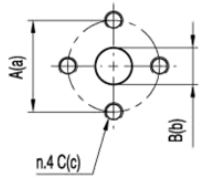
TYPE	CODE	INLET			OUTLET		
		A	B	C	a	b	c
KG(A)P2..3 ~ KG(A)P2..8	F30	40	15	M6	35	15	M6
KG(A)P2..10 ~ KG(A)P2..22	F31	40	20	M6	35	15	M6
KG(A)P2..25 ~ KG(A)P2..30	F35	55	26	M8	55	18	M8

PORTS



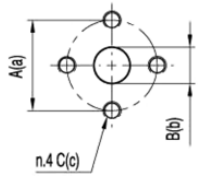
F2/F9/F12

TYPE	CODE	INLET			OUTLET		
		A	B	C	a	b	c
KG(A)P2..3 ～ KG(A)P2..8	F2	30	13	M6	30	13	M6
KG(A)P2..10 ～ KG(A)P2..22	F9	40	20	M8	30	13	M6
KG(A)P2..25 ～ KG(A)P2..30	F12	40	22	M8	30	13	M6



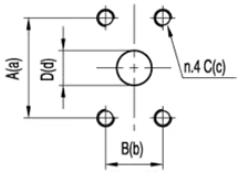
F3/F4/F5

TYPE	CODE	INLET			OUTLET		
		A	B	C	a	b	c
KG(A)P2..3 ～ KG(A)P2..8	F3	38	14	M8	38	10	M8
KG(A)P2..10 ～ KG(A)P2..22	F4	38	18	M8	38	15	M8
KG(A)P2..25 ～ KG(A)P2..30	F5	38	20	M8	38	15	M8



F6/F7/F8/F11

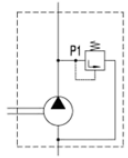
TYPE	CODE	INLET			OUTLET		
		A	B	C	a	b	c
KG(A)P2..3 ～ KG(A)P2..10	F6	40	13	M8	40	13	M8
KG(A)P2..12 ～ KG(A)P2..20	F7	40	19	M8	40	13	M8
KG(A)P2..22 ～ KG(A)P2..28	F8	40	19	M8	40	19	M8
KG(A)P2..30	F11	40	21	M8	40	19	M8



F60/F61/F62

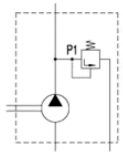
TYPE	CODE	INLET				OUTLET			
		A	B	C	D	a	b	c	d
KG(A)P2..3 ～ KG(A)P2..16	F60	38.1	17.48	5/16-18UNC	13	38.1	17.48	5/16-18UNC	13
KG(A)P2..18 ～ KG(A)P2..20	F61	47.63	22.23	3/8-16UNC	20	38.1	17.48	5/16-18UNC	13
KG(A)P2..22 ～ KG(A)P2..30	F62	47.63	22.23	3/8-16UNC	20	47.63	22.23	3/8-16UNC	20

OPTIONS



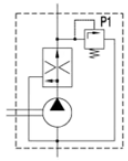
X2

DISCRIPTION
Pressure relief valve with internal drain ; setting pressure between 5 and 250 bar .



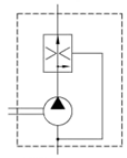
Y1

DISCRIPTION
Pressure relief valve with external drain ; setting pressure between 5 and 250 bar .



W0/W1

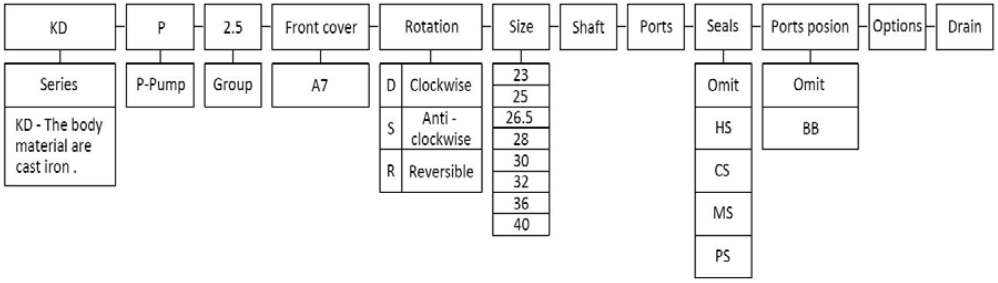
DISCRIPTION
3-way flow control valve with pressure relief valve ; excess flow returned to suction ; setting pressure between 100 and 180 bar ; control flow between 2 and 30 L/min .



K0

DISCRIPTION
2-way flow control valve ; excess flow returned to suction ; control flow between 2 and 30 L/min .

HOW TO ORDER



Seals

Omit - Range between -10℃and +80℃， inlet pressure up to max. 3 bar absolute (standard seal) .

HS - Version suitable for fluid at hi-temperatures , range between -10℃and +120℃ .

CS - Version suitable for fluid at low-temperatures , range between -40℃and +80℃ .

MS - Version suitable for inlet pressure up to max. 3 and 6 bar absolute .

PS - Version suitable for inlet pressure up to max. 3 and 10 bar absolute .

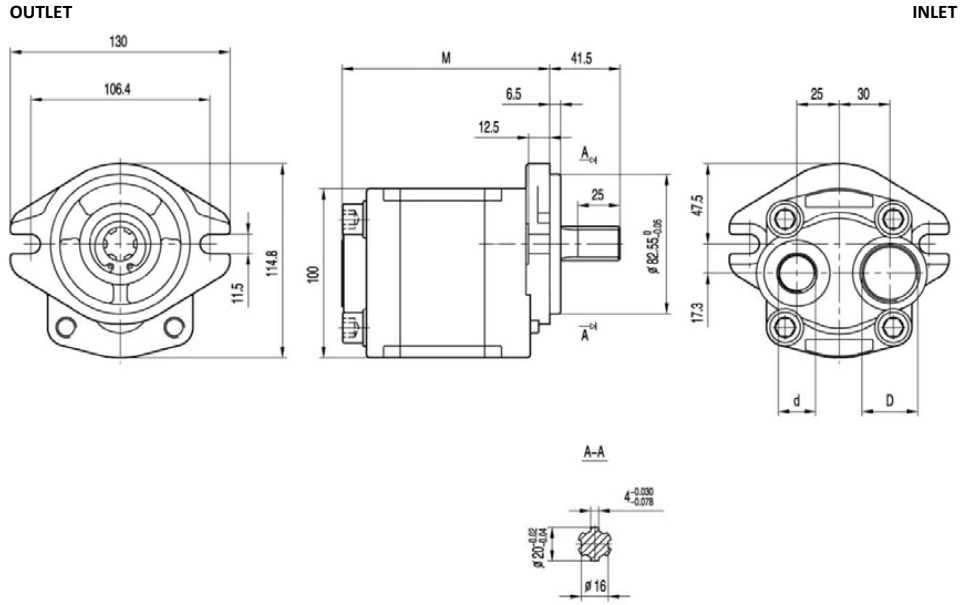
Examples

KDP2.5A7-D-32H2L7-BB = KA series , 2.5 group pump , A7 front cover , Clockwise , 32 cc/rev , H2 shaft , L7 ports , standard seal , Back inlet and back outlet .

★ Use axial gap automatic compensation mechanism.

★ High sustained working pressure and long service life .

★ Anti fouling ability is strong and suitable for forklift , power units , machines and other Kinds of hydraulic systems .



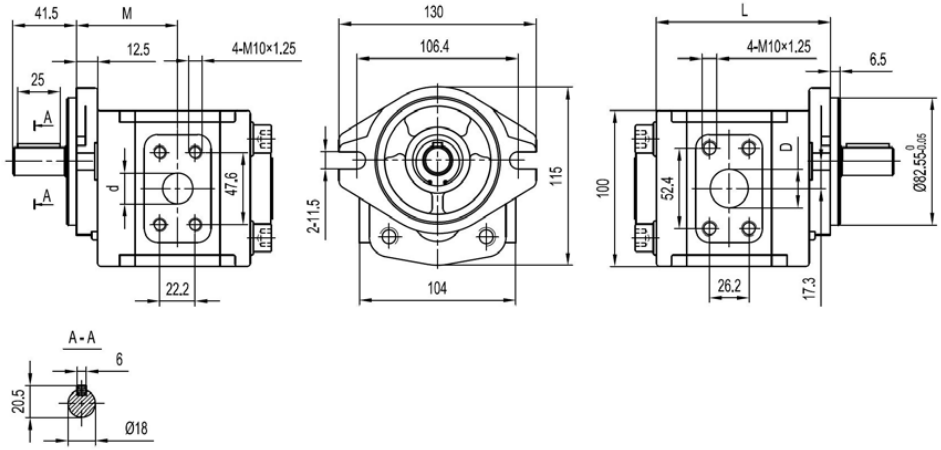
Type	Displacement	Max. pressure			Max.	Min.	Dimensions		
		P1	P2	P3	speed	speed	M	D	d
	(cm³/rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm
KDP2.5A7-D-23-BB	23	230	250	260	3500	600	118	G1	G1/2
KDP2.5A7-D-25-BB	25	230	250	260	3500	600	120	G1	G1/2
KDP2.5A7-D-26.5-BB	26.5	230	250	260	3500	600	122	G1	G1/2
KDP2.5A7-D-28-BB	28	230	250	260	3500	600	124	G1	G1/2
KDP2.5A7-D-30-BB	30	230	250	260	3000	600	126	G1	G1/2
KDP2.5A7-D-32-BB	32	200	230	250	3000	600	129	G1	G1/2
KDP2.5A7-D-36-BB	36	200	230	250	2750	500	133	G1	G1/2
KDP2.5A7-D-40-BB	40	160	180	200	2500	500	138	G1	G1/2

★ Use axial gap automatic compensation mechanism.

★ High sustained working pressure and long service life .

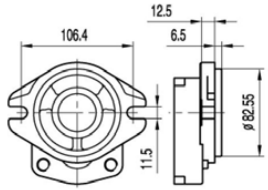
★ Anti fouling ability is strong and suitable for forklift , power units , machines and other Kinds of hydraulic systems .

OUTLET **INLET**



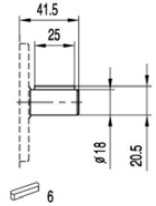
Type	Displacement	Max. pressure			Max. speed	Min. speed	Dimensions			
		P1	P2	P3			M	L	D	d
	(cm^3/rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm	mm
KDP2.5A7-D-23	23	230	250	260	3500	600	60.5	118	G1	G1/2
KDP2.5A7-D-25	25	230	250	260	3500	600	61.8	120	G1	G1/2
KDP2.5A7-D-26.5	26.5	230	250	260	3500	600	62.8	122	G1	G1/2
KDP2.5A7-D-28	28	230	250	260	3500	600	63.8	124	G1	G1/2
KDP2.5A7-D-30	30	230	250	260	3000	600	64.8	126	G1	G1/2
KDP2.5A7-D-32	32	200	230	250	3000	600	66.3	129	G1	G1/2
KDP2.5A7-D-36	36	200	230	250	2750	500	68.3	133	G1	G1/2
KDP2.5A7-D-40	40	160	180	200	2500	500	70.8	138	G1	G1/2

FRONT COVER

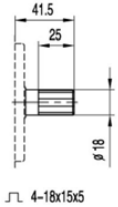


A7

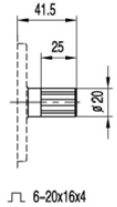
SHAFTS



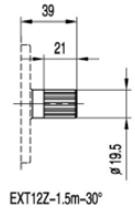
P17



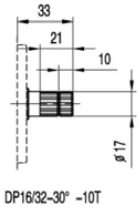
H2



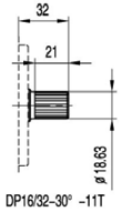
H3



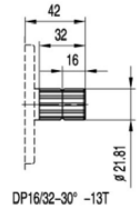
J13



J14

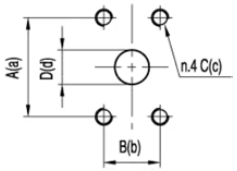


J15



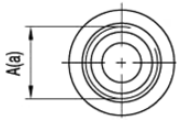
J16

PORTS



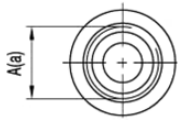
F65/F67

TYPE	CODE	INLET				OUTLET			
		A	B	C	D	a	b	c	d
KDP2.5..23 ～ KDP2.5..36	F65	52.4	26.2	M10×1.25	25	47.6	22.2	M10×1.25	20
KDP2.5..40	F67	52.4	26.2	M10×1.25	28	47.6	22.2	M10×1.25	20



L7

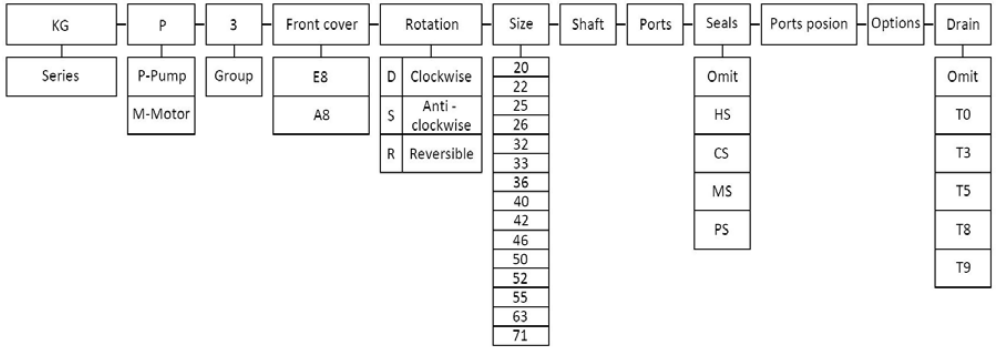
TYPE	CODE	INLET	OUTLET
		A	a
KDP2.5..23 ～ KDP2.5..40	L7	G1	G1/2



M16

TYPE	CODE	INLET	OUTLET
		A	a
KDP2.5..23 ～ KDP2.5..40	M16	M33×2	M22×1.5

HOW TO ORDER



Seals

Omit - Range between -10℃and +80℃， inlet pressure up to max. 3 bar absolute (standard seal) .

HS - Version suitable for fluid at hi-temperatures , range between -10℃and +120℃ .

CS - Version suitable for fluid at low-temperatures , range between -40℃and +80℃ .

MS - Version suitable for inlet pressure up to max. 3 and 6 bar absolute .

PS - Version suitable for inlet pressure up to max. 3 and 10 bar absolute .

Drain

Omit - Have no drain .

T0 - Internal drain .

T3 - External drain G1/4 .

T5 - External drain 9/18-18 UNF .

T8 - External drain G3/8 .

T9 - External drain 3/4-16 UNF .

Examples

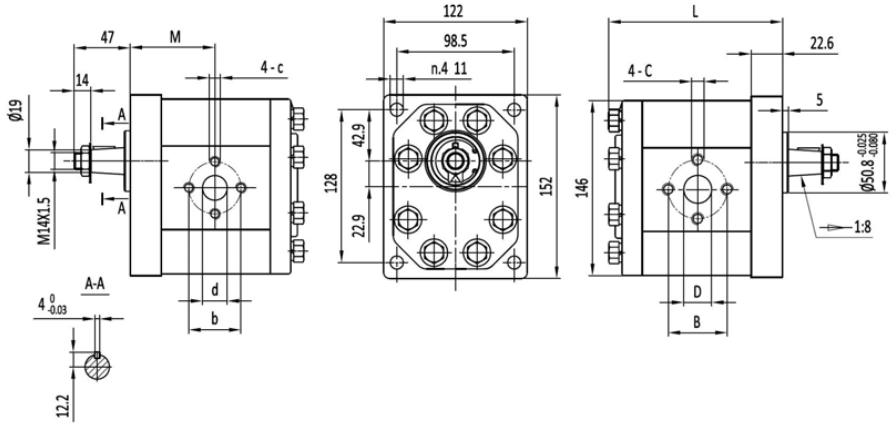
KGP3E8-D-33Z9F16 = KG series , 3 group pump , E8 front cover , clockwise , 33 cc/rev , Z9 shaft , F16 ports , standard seal , side inlet and side outlet .

★ Use axial gap automatic compensation mechanism.

★ High sustained working pressure and long service life .

★ Anti fouling ability is strong and suitable for tractors , power units , machines and other kinds Of hydraulic systems .

OUTLET **INLET**



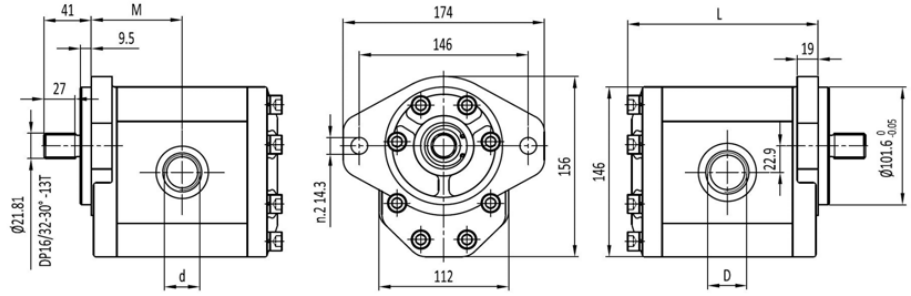
Type	Displacement	Max. pressure			Max. speed	Min. speed	Dimensions							
		P1	P2	P3			L	M	B	D	C	b	d	c
	(cm^3/rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm	mm		mm	mm	
KGP3E8-D-20	20	250	265	280	3500	600	128	63	40	19	M8	40	19	M8
KGP3E8-D-22	22	250	265	280	3500	600	130	64	40	19	M8	40	19	M8
KGP3E8-D-26	26	250	265	280	3000	600	133	65	40	19	M8	40	19	M8
KGP3E8-D-33	33	230	250	270	3000	500	139	68	51	27	M10	40	19	M8
KGP3E8-D-39	39	230	250	270	3000	500	146	72	51	27	M10	40	19	M8
KGP3E8-D-46	46	230	250	270	3000	500	152	75	51	27	M10	40	19	M8
KGP3E8-D-50	50	220	240	260	3000	500	156	77	51	27	M10	40	19	M8
KGP3E8-D-52	52	220	240	260	3000	500	158	78	51	27	M10	40	19	M8
KGP3E8-D-55	55	200	230	250	2800	400	160	79	51	27	M10	40	19	M8
KGP3E8-D-63	63	200	230	250	2800	400	168	83	62	33	M10	51	27	M10
KGP3E8-D-71	71	180	200	220	2500	400	175	86	62	33	M10	51	27	M10

★ Use axial gap automatic compensation mechanism.

★ High sustained working pressure and long service life .

★ Anti fouling ability is strong and suitable for tractors , power units , machines and other kinds Of hydraulic systems .

OUTLET **INLET**

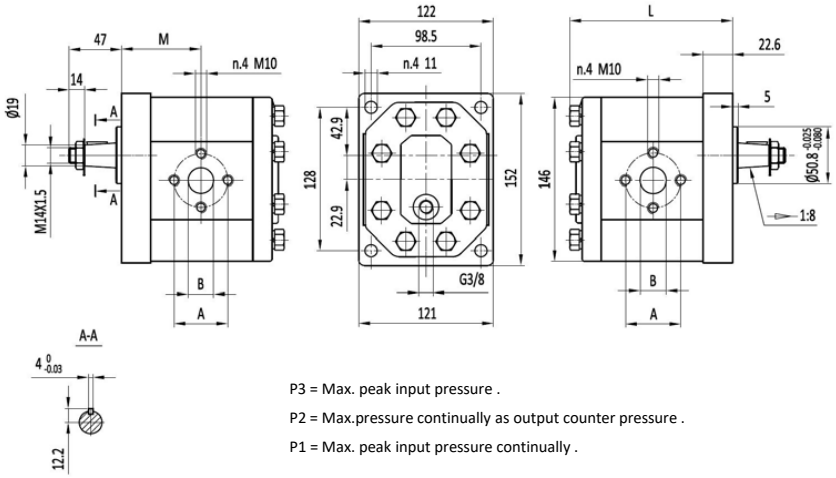


Type	Displacement	Max. pressure			Max. speed	Min. speed	Dimensions			
		P1	P2	P3			L	M	D	d
	(cm^3/rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm		
KGP3A8-D-20	20	250	265	280	3500	600	128	63	G3/4	G3/4
KGP3A8-D-22	22	250	265	280	3500	600	130	64	G3/4	G3/4
KGP3A8-D-26	26	250	265	280	3000	600	133	65	G1	G3/4
KGP3A8-D-33	33	230	250	270	3000	500	139	68	G1	G3/4
KGP3A8-D-39	39	230	250	270	3000	500	146	72	G1	G3/4
KGP3A8-D-46	46	230	250	270	3000	500	152	75	G1 1/4	G1
KGP3A8-D-50	50	220	240	260	3000	500	156	77	G1 1/4	G1
KGP3A8-D-52	52	220	240	260	3000	500	158	78	G1 1/4	G1
KGP3A8-D-55	55	200	230	250	2800	400	160	79	G1 1/4	G1
KGP3A8-D-63	63	200	230	250	2800	400	168	83	G1 1/4	G1
KGP3A8-D-71	71	180	200	220	2500	400	175	86	G1 1/2	G1 1/4

★ Use axial gap automatic compensation mechanism.

★ High sustained working pressure and long service life .

★ Anti fouling ability is strong and suitable for tractors , power units , machines and other kinds Of hydraulic systems .



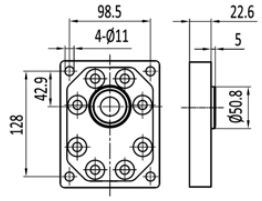
P3 = Max. peak input pressure .

P2 = Max.pressure continually as output counter pressure .

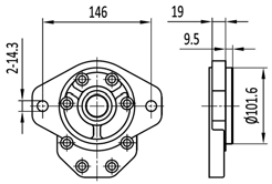
P1 = Max. peak input pressure continually .

Type	Displacement	Max. pressure			Max.	Min.	Dimensions			
		P1	P2	P3	speed	speed	L	M	A	B
	(cm^3/rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm		
KGM3E8-R-20-T8	20	250	265	280	3500	600	128	63	56	27
KGM3E8-R-22-T8	22	250	265	280	3500	600	130	64	56	27
KGM3E8-R-26-T8	26	250	265	280	3000	600	133	65	56	27
KGM3E8-R-33-T8	33	230	250	270	3000	500	139	68	56	27
KGM3E8-R-39-T8	39	230	250	270	3000	500	146	72	56	27
KGM3E8-R-46-T8	46	230	250	270	3000	500	152	75	51	27
KGM3E8-R-50-T8	50	220	240	260	3000	500	156	77	56	27
KGM3E8-R-52-T8	52	220	240	260	3000	500	158	78	56	27
KGM3E8-R-55-T8	55	200	230	250	2800	400	160	79	62	33
KGM3E8-R-63-T8	63	200	230	250	2800	400	168	83	62	33
KGM3E8-R-71-T8	71	180	200	220	2500	400	175	86	62	33

FRONT COVER

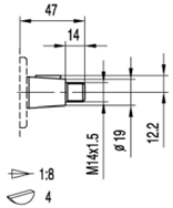


E8

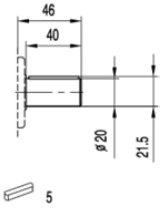


A8

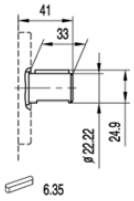
SHAFTS



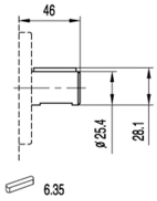
Z9



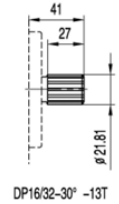
P21



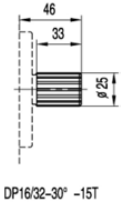
P16



P20

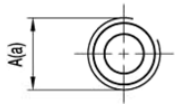


J17



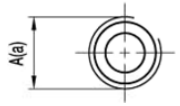
J18

PORTS



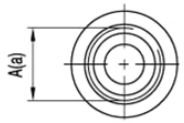
L6/L8/L10/L12

TYPE	CODE	INLET	OUTLET
		A	a
KGP3..20 ~ KGP3..22	L6	G3/4	G3/4
KGP3..26 ~ KGP3..39	L8	G1	G3/4
KGP3..46 ~ KGP3..63	L10	G1 1/4	G1
KGP3..71	L12	G1 1/2	G1 1/4



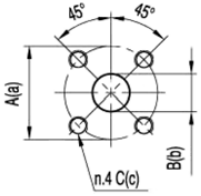
N4/N5/N7/N9

TYPE	CODE	INLET	OUTLET
		A	a
KGP3..20 ~ KGP3..22	N4	PT3/4	PT3/4
KGP3..26 ~ KGP3..39	N5	PT1	PT3/4
KGP3..46 ~ KGP3..63	N7	PT1 1/4	PT1
KGP3..71	N9	PT1 1/2	PT1 1/4



U7/U9/U10

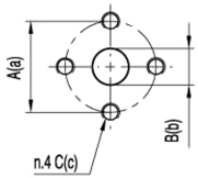
TYPE	CODE	INLET	OUTLET
		A	a
KGP3..20 ~ KGP3..33	U7	1 5/16-12UNF	1 1/16-12UNF
KGP3..39 ~ KGP3..52	U9	1 5/8-12UNF	1 1/16-12UNF
KGP3..55 ~ KGP3..71	U10	1 7/8-12UNF	1 5/16-12UNF



F32/F36/F37/F38/F39

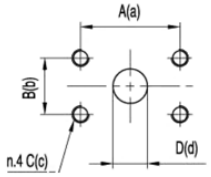
TYPE	CODE	INLET			OUTLET		
		A	B	C	a	b	c
KGP3..20 ~ KGP3..26	F32	50	20	M8	50	20	M8
KGP3..20 ~ KGP3..71	F36	55	27	M8	55	19	M8
KGP3..33 ~ KGP3..46	F37	65	25	M8	65	20	M8
KGP3..50 ~ KGP3..63	F38	76	33	M8	76	25	M8
KGP3..50 ~ KGP3..71	F39	76	33	M8	76	25	M8

PORTS



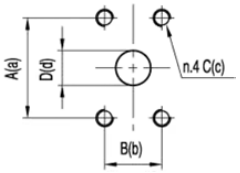
F8/F14/F15/F16/F17/F18

TYPE	CODE	INLET			OUTLET		
		A	B	C	a	b	c
KGP3..20 ~ KGP3..26	F 8	40	19	M8	40	19	M8
KGP3..33 ~ KGP3..55	F14	51	27	M10	40	19	M8
KGP3..20 ~ KGP3..39	F16	56	27	M10	56	19	M10
KGP3..46	F15	51	27	M10	51	27	M10
KGP3..50 ~ KGP3..52	F17	56	27	M10	56	27	M10
KGP3..55 ~ KGP3..71	F18	62	33	M10	51	27	M10



F84/F85/F86/F87

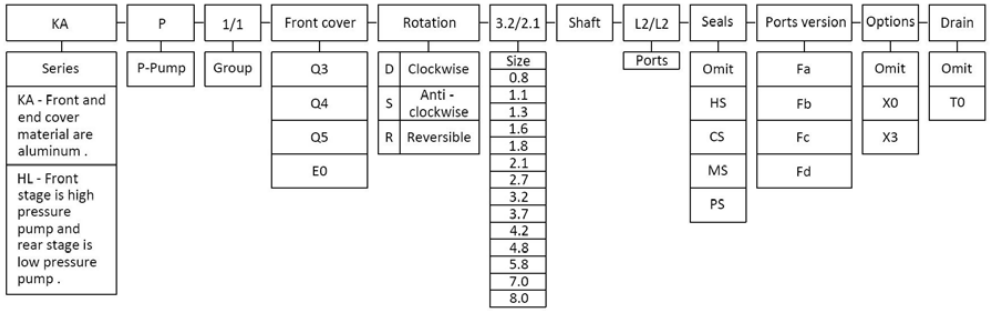
TYPE	CODE	INLET				OUTLET			
		A	B	C	D	a	b	c	d
KGP3..20 ~ KGP3..25	F84	57.2	26	M10	25	57.2	26	M10	20
KGP3..32	F85	57.2	26	M10	30	57.2	26	M10	20
KGP3..40	F86	57.2	26	M10	35	57.2	26	M10	20
KGP3..50 ~ KGP3..63	F87	57.2	26	M10	35	57.2	26	M10	25



F66/F68

TYPE	CODE	INLET				OUTLET			
		A	B	C	D	a	b	c	d
KGP3..20 ~ KGP3..52	F66	52.4	26.2	3/8-16UNC	27	47.6	22.2	3/8-16UNC	19
KGP3..55 ~ KGP3..71	F68	58.7	30.2	7/16-14UNC	33	52.4	26.2	3/8-16UNC	27

HOW TO ORDER



Remark : choose the Front cover , shaft , sizes and ports can accord the types of " KAP1 " series ; and if you have other types , please contact us .

Seals

Omit - Range between -10℃and +80℃， inlet pressure up to max. 3 bar absolute (standard seal) .

HS - Version suitable for fluid at hi-temperatures , range between -10℃and +120℃ .

CS - Version suitable for fluid at low-temperatures , range between -40℃and +80℃ .

MS - Version suitable for inlet pressure up to max. 3 and 6 bar absolute .

PS - Version suitable for inlet pressure up to max. 3 and 10 bar absolute .

Ports version

Fa - two inlet and two outlet (separated type) .

Fb - two inlet and two outlet (common type) .

Fc - one inlet and two outlet (inlet on the front pump) .

Fd - one inlet and one outlet (only for " HL " series) .

Options

Omit - Have no valve .

X0 - pressure valve .

X3 - special integrated valve .

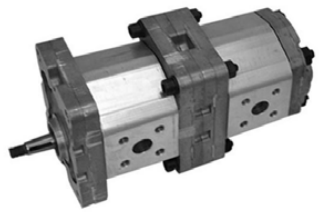
Drain

Omit - Have no drain .

T0 - Internal drain .

Examples

KAP1/1E0-D-2.1/4.2Z1L2/L2-Fa = KA series , 1 group tandem pump , E0 front cover , Clockwise , 2.1 and 4.1 cc/rev , Z1 shaft , L2 and L2 ports , standard seal , two inlet and two outlet (separated type) .

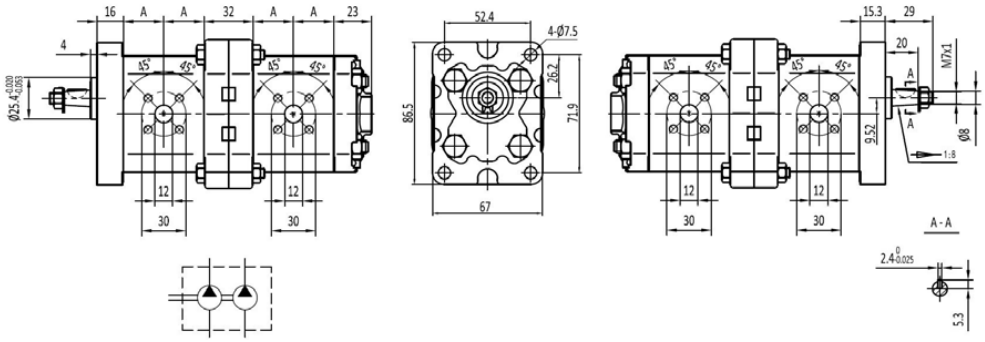


★ Use axial gap automatic compensation mechanism.

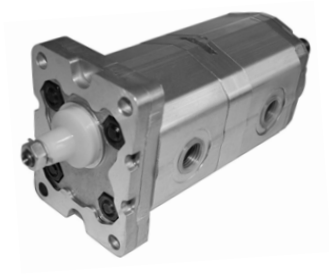
★ High sustained working pressure and long service life .

★ Anti fouling ability is strong and suitable for power units,machines and other kinds Of hydraulic systems .

OUTLET **INLET**



Type	Displacement	Max. pressure			Max.	Min.	Dimensions
		P1	P2	P3	speed	speed	A
	(cm³/rev)	bar	bar	bar	(r/min)	(r/min)	mm
KAP1/1E0-D-**/**-Fa	0.8	230	250	270	6000	1000	17.8
	1.1	230	250	270	6000	1000	18
	1.3	230	250	270	6000	1000	18.5
	1.6	230	250	270	6000	1000	19
	1.8	230	250	270	6000	1000	19.5
	2.1	230	250	270	6000	1000	20
	2.7	230	250	270	6000	800	21
	3.2	210	230	250	5000	800	22
	3.7	210	230	250	4500	800	23
	4.2	210	230	250	4000	800	24
	4.8	190	210	230	3500	600	25
	5.8	190	210	230	3000	600	27
	7.0	160	180	200	2500	600	29
	8.0	160	180	200	2100	600	31



★ Use axial gap automatic compensation mechanism.

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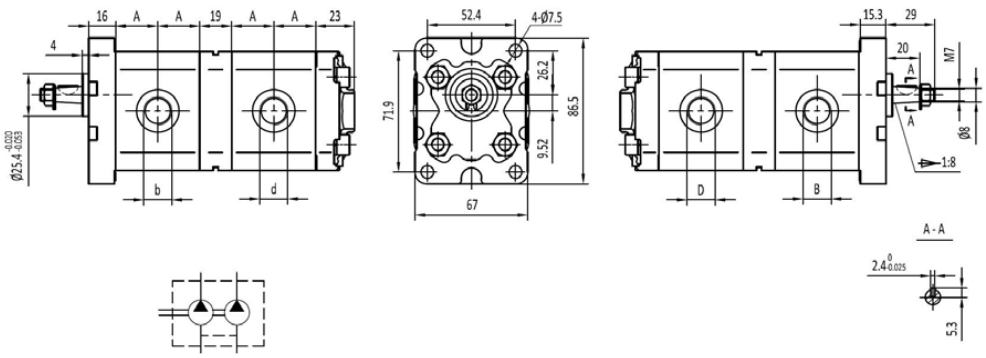
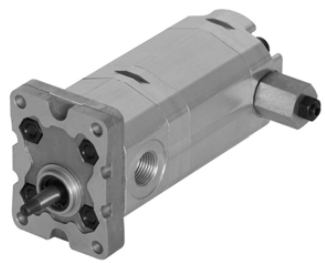
OUTLET INLET



Type	Displacement	Max. pressure			Max. speed	Min. speed	Dimensions				
		P1	P2	P3			A	B	D	b	d
	(cm³/rev)	bar	bar	bar	(r/min)	(r/min)	mm				
KAP1/1E0-D-**/**-Fb	0.8	230	250	270	6000	1000	17.8	G3/8	G3/8	G3/8	G3/8
	1.1	230	250	270	6000	1000	18	G3/8	G3/8	G3/8	G3/8
	1.3	230	250	270	6000	1000	18.5	G3/8	G3/8	G3/8	G3/8
	1.6	230	250	270	6000	1000	19	G3/8	G3/8	G3/8	G3/8
	1.8	230	250	270	6000	1000	19.5	G3/8	G3/8	G3/8	G3/8
	2.1	230	250	270	6000	1000	20	G3/8	G3/8	G3/8	G3/8
	2.7	230	250	270	6000	800	21	G3/8	G3/8	G3/8	G3/8
	3.2	210	230	250	5000	800	22	G3/8	G3/8	G3/8	G3/8
	3.7	210	230	250	4500	800	23	G3/8	G3/8	G3/8	G3/8
	4.2	210	230	250	4000	800	24	G3/8	G3/8	G3/8	G3/8
	4.8	190	210	230	3500	600	25	G3/8	G3/8	G3/8	G3/8
	5.8	190	210	230	3000	600	27	G3/8	G3/8	G3/8	G3/8
	7.0	160	180	200	2500	600	29	G3/8	G3/8	G3/8	G3/8
	8.0	160	180	200	2100	600	31	G3/8	G3/8	G3/8	G3/8

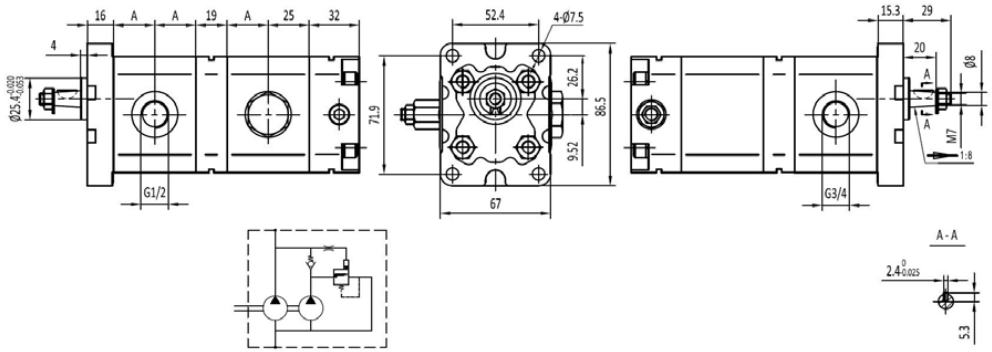


★ Use axial gap automatic compensation mechanism.

★ High sustained working pressure and long service life .

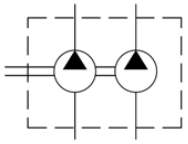
★ Anti fouling ability is strong and suitable for trash compactors , log splitters , crimping Machines and metal forming machines etc .

OUTLET INLET

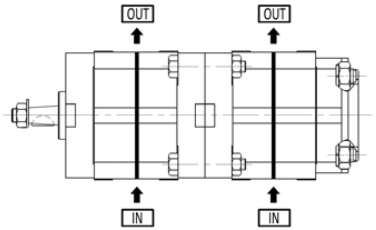


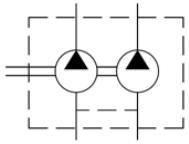
Type	Displacement	Front pump Max. pressure			Rear pump Max. pressure	Max. speed	Min. speed	Dimensions
		P1	P2	P3	P1			A
	(cm³/rev)	bar	bar	bar	bar	(r/min)	(r/min)	mm
HLP1/1E0-D-**/**-FdX3T0	0.8	230	250	270	According the setting pressure (standard setting 30 bar)	6000	1000	17.8
	1.1	230	250	270		6000	1000	18
	1.3	230	250	270		6000	1000	18.5
	1.6	230	250	270		6000	1000	19
	1.8	230	250	270		6000	1000	19.5
	2.1	230	250	270		6000	800	20
	2.7	230	250	270		5000	800	21
	3.2	210	230	250		4500	800	22
	3.7	210	230	250		4000	800	23
	4.2	210	230	250		3500	600	24
	4.8	190	210	230		3000	600	25
	5.8	190	210	230		2500	600	27
	7.0	160	180	200		2100	600	29
	8.0	160	180	200		2000	600	31

PORTS VERSION

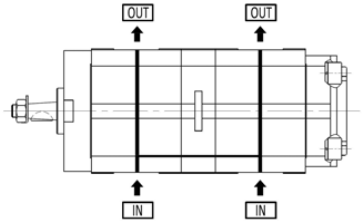


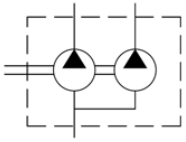
Fa





Fb





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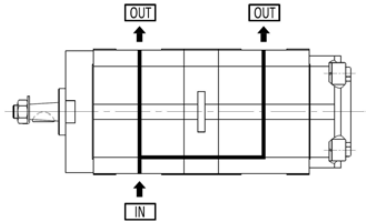
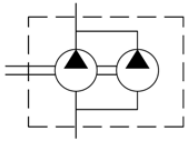
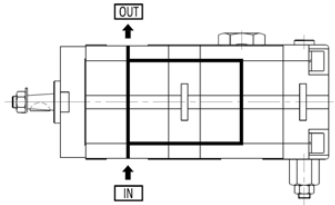
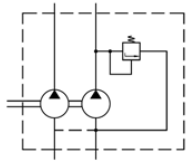




Fd

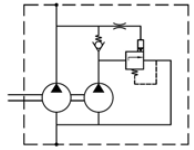


OPTIONS



X0

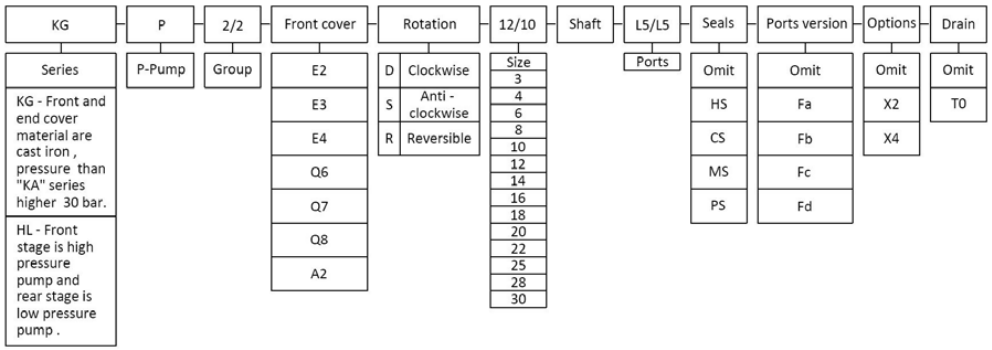
DISCRIPTION
Pressure relief valve with internal drain ; setting pressure between 5 and 230 bar .



X3

DISCRIPTION
Special integrated valves for high-low gear pumps ; and standard setting pressure is 30 bar .

HOW TO ORDER



Remark : choose the Front cover , shaft , sizes and ports can accord the types of " KGP2[KAP2] " series ; and if you have other types , please contact us .

Seals

Omit - Range between -10℃and +80℃， inlet pressure up to max. 3 bar absolute (standard seal) .

HS - Version suitable for fluid at hi-temperatures , range between -10℃and +120℃ .

CS - Version suitable for fluid at low-temperatures , range between -40℃and +80℃ .

MS - Version suitable for inlet pressure up to max. 3 and 6 bar absolute .

PS - Version suitable for inlet pressure up to max. 3 and 10 bar absolute .

Ports version

Fa - two inlet and two outlet (separated type) .

Fb - two inlet and two outlet (common type) .

Fc - one inlet and two outlet (inlet on the front pump) .

Fd - one inlet and one outlet (only for " HL " series) .

Options

Omit - Have no valve .

X2 - pressure valve .

X4 - special integrated valve .

Drain

Omit - Have no drain .

T0 - Internal drain .

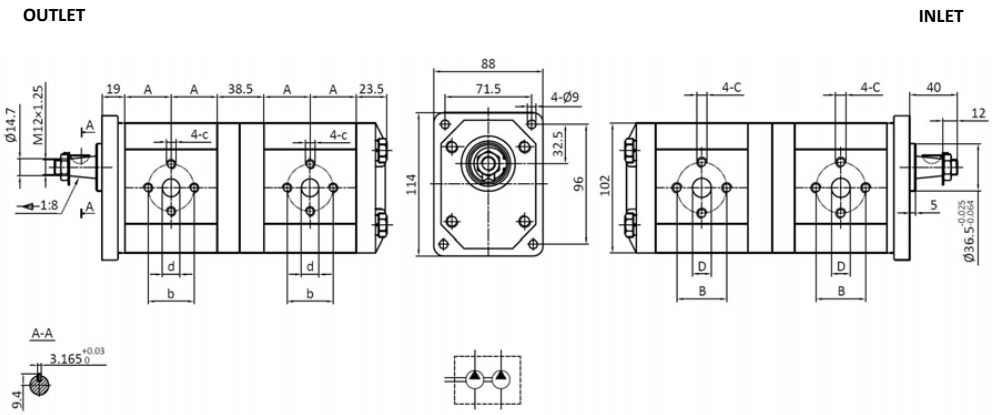
Examples

KGP2/2E2-D-12/10Z5L5/L5-Fa = KG series , 2 group tandem pump , E2 front cover , Clockwise , 12 and 10 cc/rev , Z5 shaft , L5 and L5 ports Standard seal , two inlet and two outlet (separated type) .

★ Use axial gap automatic compensation mechanism.

★ High sustained working pressure and long service life .

★ Anti fouling ability is strong and suitable for power units , tractors ,machines and other kinds Of hydraulic systems .



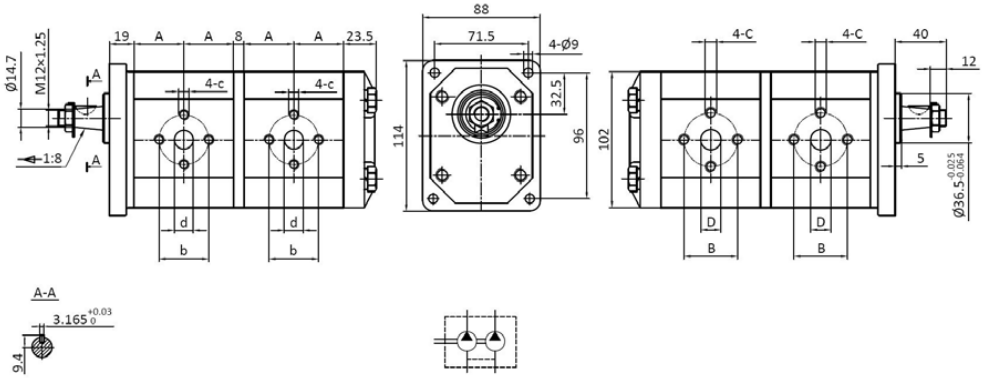
Type	Displacement	Max. pressure			Max.	Min.	Dimensions						
		P1	P2	P3	speed	speed	A	B	D	C	b	d	c
	(cm^3/rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm		mm	mm	
KGP2/2E2-D-**/**-Fa	3	270	285	300	4000	800	24.5	30	13	M6	30	13	M6
	4	270	285	300	4000	600	25.3	30	13	M6	30	13	M6
	6	270	285	300	4000	600	27	30	13	M6	30	13	M6
	8	270	285	300	3500	500	28.6	30	13	M6	30	13	M6
	10	270	285	300	3000	500	30.3	40	20	M8	30	13	M6
	12	270	285	300	3000	500	32	40	20	M8	30	13	M6
	14	250	265	280	3000	500	33.6	40	20	M8	30	13	M6
	16	250	265	280	3000	500	35.3	40	20	M8	30	13	M6
	18	250	265	280	3000	500	37	40	20	M8	30	13	M6
	20	220	235	250	3000	400	38.6	40	20	M8	30	13	M6
	22	220	235	250	3000	400	40.3	40	20	M8	30	13	M6
	25	200	215	230	3000	400	42.8	40	22	M8	30	13	M6
	28	180	190	200	3000	400	45.3	40	22	M8	30	13	M6
	30	160	170	180	3000	400	47	40	22	M8	30	13	M6

★ Use axial gap automatic compensation mechanism.

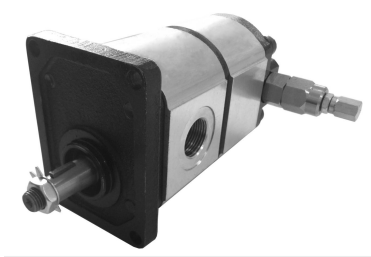
★ High sustained working pressure and long service life .

★ Anti fouling ability is strong and suitable for power units , tractors ,machines and other kinds Of hydraulic systems .

OUTLET INLET



Type	Displacement	Max. pressure			Max. speed	Min. speed	Dimensions						
		P1	P2	P3			A	B	D	C	b	d	c
	(cm³/rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm		mm	mm	
KGP2/2E2-D-**/**-Fb	3	270	285	300	4000	800	24.5	30	13	M6	30	13	M6
	4	270	285	300	4000	600	25.3	30	13	M6	30	13	M6
	6	270	285	300	4000	600	27	30	13	M6	30	13	M6
	8	270	285	300	3500	500	28.6	30	13	M6	30	13	M6
	10	270	285	300	3000	500	30.3	40	20	M8	30	13	M6
	12	270	285	300	3000	500	32	40	20	M8	30	13	M6
	14	250	265	280	3000	500	33.6	40	20	M8	30	13	M6
	16	250	265	280	3000	500	35.3	40	20	M8	30	13	M6
	18	250	265	280	3000	500	37	40	20	M8	30	13	M6
	20	220	235	250	3000	400	38.6	40	20	M8	30	13	M6
	22	220	235	250	3000	400	40.3	40	20	M8	30	13	M6
	25	200	215	230	3000	400	42.8	40	22	M8	30	13	M6
	28	180	190	200	3000	400	45.3	40	22	M8	30	13	M6
	30	160	170	180	3000	400	47	40	22	M8	30	13	M6

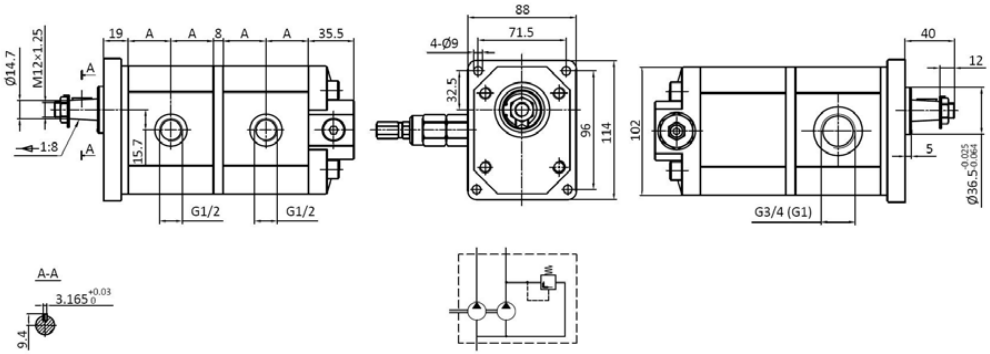


★ Use axial gap automatic compensation mechanism.

★ High sustained working pressure and long service life .

★ Anti fouling ability is strong and suitable for power units , tractors ,machines and other kinds Of hydraulic systems .

OUTLET INLET



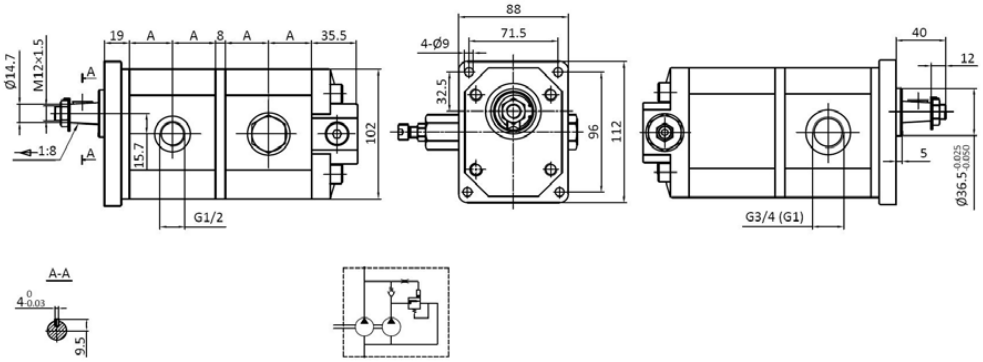
Type	Displacement	Front pump Max. pressure			Rear pump Max. pressure	Max. speed	Min. speed	Dimensions
		P1	P2	P3	P1			A
	(cm³/rev)	bar	bar	bar	bar	(r/min)	(r/min)	mm
KGP2/2E2-D-**/**-FcX2T0	3	270	285	300	According the setting pressure (setting pressure between 5 and 250 bar)	4000	800	24.5
	4	270	285	300		4000	600	25.3
	6	270	285	300		4000	600	27
	8	270	285	300		3500	500	28.6
	10	270	285	300		3000	500	30.3
	12	270	285	300		3000	500	32
	14	250	265	280		3000	500	33.6
	16	250	265	280		3000	500	35.3
	18	250	265	280		3000	500	37
	20	220	235	250		3000	400	38.6
	22	220	235	250		3000	400	40.3
	25	200	215	230		3000	400	42.8
	28	180	190	200		3000	400	45.3
	30	160	170	180		3000	400	47

★ Use axial gap automatic compensation mechanism.

★ High sustained working pressure and long service life .

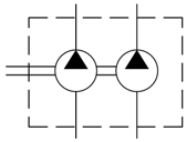
★ Anti fouling ability is strong and suitable for power units , tractors ,machines and other kinds Of hydraulic systems .

OUTLET **INLET**



Type	Displacement	Front pump Max. pressure			Rear pump Max. pressure	Max. speed	Min. speed	Dimensions
		P1	P2	P3	P1			A
	(cm³/rev)	bar	bar	bar	bar	(r/min)	(r/min)	mm
HLP2/2E2-D-**/**-FdX4T0	3	270	285	300	According the setting pressure (standard setting 50 bar)	4000	800	24.5
	4	270	285	300		4000	600	25.3
	6	270	285	300		4000	600	27
	8	270	285	300		3500	500	28.6
	10	270	285	300		3000	500	30.3
	12	270	285	300		3000	500	32
	14	250	265	280		3000	500	33.6
	16	250	265	280		3000	500	35.3
	18	250	265	280		3000	500	37
	20	220	235	250		3000	400	38.6
	22	220	235	250		3000	400	40.3
	25	200	215	230		3000	400	42.8
	28	180	190	200		3000	400	45.3
	30	160	170	180		3000	400	47

PORTS VERSION



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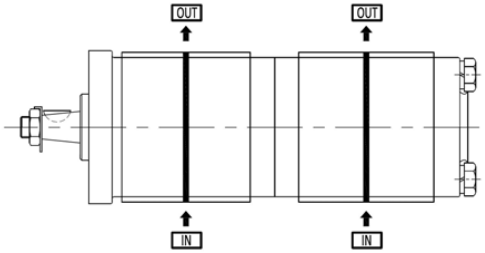

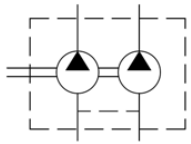

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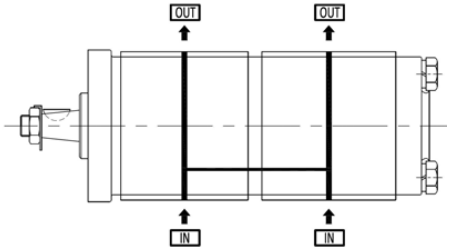

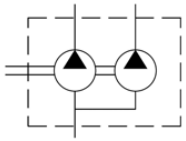

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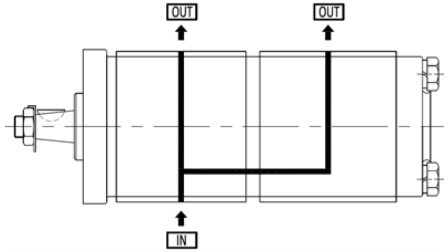

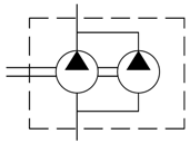

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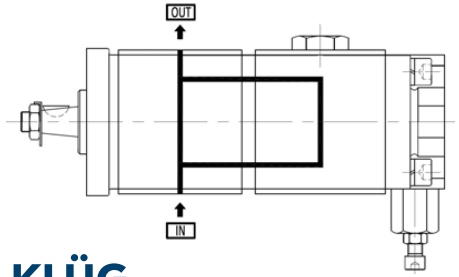
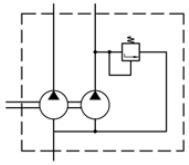
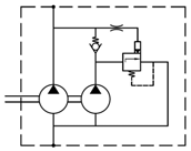


OPTIONS



X2

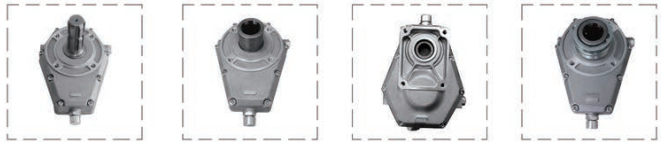
DISCRIPTION
Pressure relief valve with internal drain ; setting pressure between 5 and 230 bar .



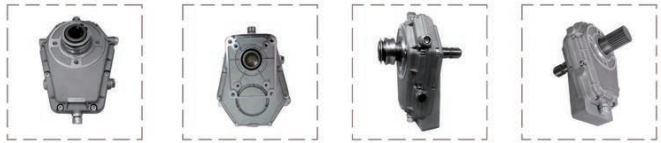
X4

DISCRIPTION
Special integrated valves for high-low gear pumps ; and standard setting pressure is 50 bar .

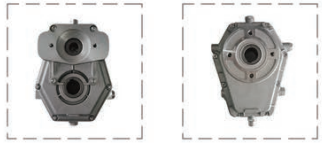
- Product portfolio
  - P.T.O. Gearbox
    - Group 2 multiplier



    - Group 3 multiplier

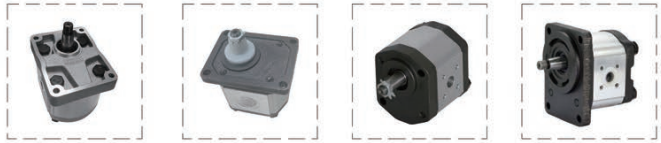


    - Group 3 reducer



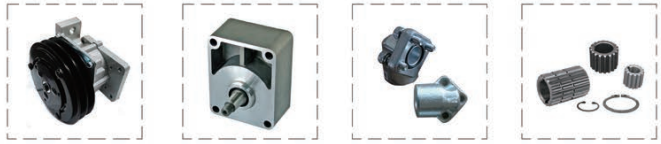
    - More to www.koreson.com
  - Cast iron gear pump
    - Truck Pump

    - More to www.koreson.com
  - Alu gear pump
    - Group 2 Pump



    - Special Pump

    - More to www.koreson.com
  - Hydraulic parts and accessories



  - More to www.koreson.com