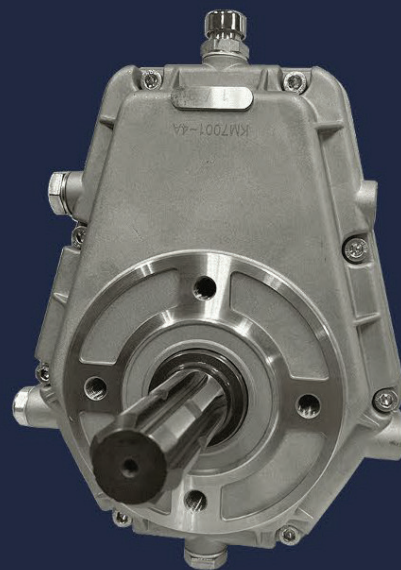


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PUMPS & MOTORS

CATALOGUE 2025





IMPORTANT NOTICE

WARNING

Hydraulic failures, incorrect or improper use of components and system design by persons without sufficient expertise may cause serious injury, property damage and even Death.

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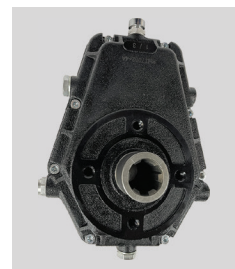
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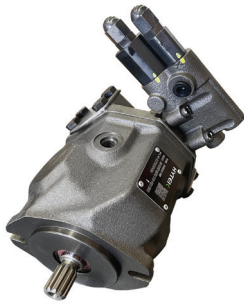
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HA10VSO

Variable Displacement Pumps

Splined or Straight Keyed Shaft
280 Bar
Mechanical Displacement Limiter
Pressure Compensated and Load
Sense Control



The HA10VSO Open Loop Variable Displacement Piston Pump has numerous controller, shaft and mounting options. The single pump comes standard with a maximum displacement adjustment and SAE flange ports. We also stock a through drive version that offers SAE mounting for a rear pump.

Pumps with SAE Splined Shafts

Part Number	Description	Mounting	Flange Ports	Shafts
HA10VSO18DFR/31RPSC12N00	18cc Piston Pump L/Sense	SAE A 2 Bolt	3/4" & 1"	3/4" 11T
HA10VSO18DFR/31RPUC12N00	18cc Piston Pump L/Sense	SAE A 2 Bolt	3/4" & 1"	5/8" 9T
HA10VSO28DFR/31RPSC12N00	28cc Piston Pump L/Sense	SAE B 2 Bolt	3/4" & 1 1/4"	7/8" 13T
HA10VSO28DFR/31RPUC12N00	28cc Piston Pump L/Sense	SAE B 2 Bolt	3/4" & 1 1/4"	5/8" 9T
HA10VSO45DFR/31RPSC12N00	45cc Piston Pump L/Sense	SAE B 2 Bolt	1" & 1 1/2"	1" 15T
HA10VSO45DFR/31RPUC12N00	45cc Piston Pump L/Sense	SAE B 2 Bolt	1" & 1 1/2"	7/8" 13T
HA10VSO71DFR/31RPSC12N00	71cc Piston Pump L/Sense	SAE C 2 Bolt	1 1/4" & 2"	1 1/4" 14T
HA10VSO100DFR/31RPSC12N00	100cc Piston Pump L/Sense	SAE C 2 Bolt	1 1/4" & 2 1/2"	1 1/2" 17T
HA10VSO100DFR/31RPUC12N00	100cc Piston Pump L/Sense	SAE C 2 Bolt	1 1/4" & 2 1/2"	1 1/4" 14T
HA10VSO140DFR/31RPSC12N00	140cc Piston Pump L/Sense	SAE D 4 Bolt	1 1/4" & 2 1/2"	1 3/4" 13T

Pumps with Straight Keyed Metric Shafts

Part Number	Description	Mounting	Flange Ports	Shafts Str Key
HA10VSO18DFR/31RPPC12N00	18cc Piston Pump L/Sense	SAE A 2 Bolt	3/4" & 1"	18mm
HA10VSO28DFR/31RPPC12N00	28cc Piston Pump L/Sense	SAE B 2 Bolt	3/4" & 1 1/4"	22mm
HA10VSO45DFR/31RPPC12N00	45cc Piston Pump L/Sense	SAE B 2 Bolt	1" & 1 1/2"	25mm
HA10VSO71DFR/31RPPC12N00	71cc Piston Pump L/Sense	SAE C 2 Bolt	1 1/4" & 2"	32mm
HA10VSO100DFR/31RPPC12N00	100cc Piston Pump L/Sense	SAE C 2 Bolt	1 1/4" & 2 1/2"	40mm

HA10VSO Horsepower Control



Part Number	Description	Set @ Kw	Splined Shaft
HA10VSO28DFLR/31RPSC12NOO	28cc Piston Pump Horsepower Control	5.5Kw	7/8" 13T
HA10VSO45DFLR/31RPSC12NOO	45cc Piston Pump Horsepower Control	7.5Kw	1" 15T
HA10VSO71DFLR/31RPSC12NOO	71cc Piston Pump Horsepower Control	11Kw	1 1/4" 14T
HA10VSO100DFLR/31RPSC12NOO	100cc Piston Pump Horsepower Control	*	1 1/2" 17T
HA10VSO140DFLR/31RPSC12NOO	140cc Piston Pump Horsepower Control	*	1 3/4" 13T

Seal Kits

Part Number	Size	18	28	45	71	100	140
-------------	------	----	----	----	----	-----	-----

HA10VSO(size)-SK

HA10VSO Variable Displacement Pumps

280 Bar

Pressure Compensated, Load Sense and Remote Pressure

SAE Through Drive



SAE Through Drive

Part Number	Description	Through Drive	
		Mount	Splined Shaft
HA10VSO28DFR/31RPSC12K01	28cc Piston Pump	SAE A 2 Bolt	5/8" 9T
HA10VSO28DFR/31RPSC12K52	28cc Piston Pump	SAE A 2 Bolt	3/4" 11T
HA10VSO28DFR/31RPSC12K02	28cc Piston Pump	SAE B 2 Bolt	7/8" 13T
HA10VSO45DFR/31RPSC12K01	45cc Piston Pump	SAE A 2 Bolt	5/8" 9T
HA10VSO45DFR/31RPSC12K52	45cc Piston Pump	SAE A 2 Bolt	3/4" 11T
HA10VSO45DFR/31RPSC12K04	45cc Piston Pump	SAE B 2 Bolt	1" 15T
HA10VSO71DFR/31RPSC12K01	71cc Piston Pump	SAE A 2 Bolt	5/8" 9T
HA10VSO71DFR/31RPSC12K52	71cc Piston Pump	SAE A 2 Bolt	3/4" 11T
HA10VSO71DFR/31RPSC12K04	71cc Piston Pump	SAE B 2 Bolt	1" 15T
HA10VSO71DFR/31RPSC12K07	71cc Piston Pump	SAE C 2 Bolt	1 1/4" 14T
HA10VSO100DFR/31RPSC12K04	100cc Piston Pump	SAE B 2 Bolt	1" 15T
HA10VSO100DFR/31RPSC12K07	100cc Piston Pump	SAE C 2 Bolt	1 1/4" 14T
HA10VSO100DFR/31RPSC12K52	100cc Piston Pump	SAE A 2 Bolt	3/4" 11T
HA10VSO140DFR/31RPS*12K**	140cc Piston Pump		



Through Drive Couplings Supplied Separately

Part Number	Description	Through Drive	
		Mount	Splined Shaft
HA10VSO28-CPLG-K01	Coupling to suit Rear Pump	SAE A 2 Bolt	5/8" 9T
HA10VSO28-CPLG-K52		SAE A 2 Bolt	3/4" 11T
HA10VSO28-CPLG-K02		SAE B 2 Bolt	7/8" 13T
HA10VSO28-CPLG-K04		SAE B 2 Bolt	1" 15T
HA10VSO45-CPLG-K01		SAE A 2 Bolt	5/8" 9T
HA10VSO45-CPLG-K52		SAE A 2 Bolt	3/4" 11T
HA10VSO45-CPLG-K02		SAE B 2 Bolt	7/8" 13T
HA10VSO45-CPLG-K04		SAE B 2 Bolt	1" 15T
HA10VSO71-CPLG-K01		SAE A 2 Bolt	5/8" 9T
HA10VSO71-CPLG-K52		SAE A 2 Bolt	3/4" 11T
HA10VSO71-CPLG-K02		SAE B 2 Bolt	7/8" 13T
HA10VSO71-CPLG-K04		SAE B 2 Bolt	1" 15T
HA10VSO71-CPLG-K07		SAE C 2 Bolt	1 1/4" 14T
HA10VSO100-CPLG-K01		SAE A 2 Bolt	5/8" 9T
HA10VSO100-CPLG-K04		SAE B 2 Bolt	1" 15T
HA10VSO100-CPLG-K07		SAE C 2 Bolt	1 1/4" 14T
HA10VSO100-CPLG-K24		SAE C 2 Bolt	1 1/2" 17T
HA10VSO100-CPLG-K52		SAE C 2 Bolt	3/4" 11T
HA10VSO100-CPLG-K68		SAE B 2 Bolt	7/8" 13T
HA10VSO140-CPLG-K07		SAE D 4 Bolt	1 1/4" 14T

HA10VSO

Variable Displacement Pumps

Splined or Keyed Shaft
280 Bar
Mechanical Displacement Limiter

Ordering Code

HA10VS	O	71	DR	/31	R	-P	P	A	21	NOO
Axial piston unit	Type of operation	Size	Control Device	Series	Rotation	Seals	Shaft end	Mounting Flange	Service line connections	Through drives
HA10VS Variable Swashplate Design, for Industrial Applications Nominal Pressure 28Mpa, Peak Pressure 35MPA	O: Pump in Open Circuits	18 28 45 71 100 140	DR: Pressure Control DRG: Pressure Control, remotely controlled DFR: Pressure/ Flow Control DFR1: Pressure/ flow control, without orifice in X-Line	31	(View on shaft end) R: Clockwise L: Anticlockwise	P: NBR nitril-caoutchouc to Din ISO1629 (Shaft seal in FKM) V: FKM fluor-caoutchouc to Din ISO1629	See below	A: ISO 2-Hole B: ISO 4-Bolt C: SAE 2 Bolt	12: Pressure port B, Suction port S, (SAE ports at opposite sides Metric fixing thread)	

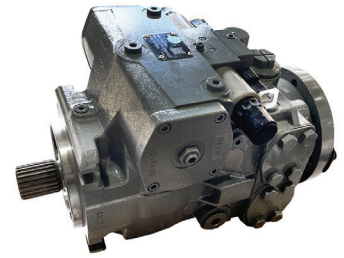
Specifications

Size			18	28	45	71	100	140
Displacement	Max	cc/rev	18	28	45	71	100	140
Max Speed	@ Max Displacement	rpm	3300	3000	2600	2200	2000	1800
Flow	@ Max Displacement & Max Speed	L/Min	59	84	117	156	200	252
	@ 1500 rpm	L/Min	27	42	68	107	150	210
Power	@ Max Flow & Max Pressure 280 Bar	KW	30	39	55	73	93	118
	@ 1500rpm & Max Pressure 280 Bar	KW	12.6	20	32	50	70	98
Torque	@ Max Displacement & Max Pressure 280 Bar	Nm	80	125	200	316	445	623
	@ Max Displacement & 100 Bar	Nm	30	45	72	113	159	223
Torsional Stiffness	Drive Shaft S	Nm/rad	11087	22317	37499	71884	121142	169537
	Drive Shaft R	Nm/rad	14850	26360	41025	76545	-	-
	Drive Shaft P	Nm/rad	13158	25656	41232	80627	132335	188406
Moment of Inertia	Rotary Unit	kgm ²	0.00093	0.0017	0.0033	0.0083	0.0167	0.0242
Case Volume		Litres	0.4	0.7	1.0	1.6	2.2	3.0
Weight	Withought Through Drive	Kg	12	15	21	33	45	60

HA4VTG

Closed Loop Piston Pump

with 24VDC Proportional Control
110cc
SAE B Through Drive



The output flow of the pump is completely variable and proportional to the electrical input to the solenoids.

Part Number	Description	Through Drive	
		Mount	Splined Shaft
HA4VTG90EP2/33R-NSD10F025SP	90cc Closed Loop	SAE C 4 Bolt	1 1/2" 23T
HA4VTG90HW/33R-NLD10F001S	90cc Closed Circuit	SAE C 4 Bolt	1 1/2" 23T
HA4VTG110EP2/33R-NSD10F025SP	110cc Axial Variable Piston Pump	SAE C 4 Bolt	SAE B 7/8" 13T
HA4VTG110EP2/33L-NSD10F025SP		SAE C 4 Bolt	SAE B 7/8" 13T
Spare Parts			
HA4VTG110-SK	Seal Kit		
HA4VTG110-SS	Shaft Seal		

Ordering Code

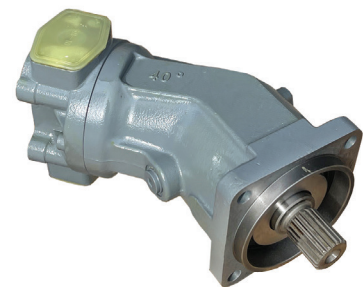
HA4VT	G	110	EP2	/3	3	R	-N	S	D	10	F02	5	S	P
Axial Piston Unit	Operating Mode	Size	Control	Series	Index	Rotation	Seals	Splined Shaft SAE	Mounting Flange		Through Drive	Valves	Filtration	
	Closed Circuits	110cc	EP2 24V Proportional Solenoid			R = Right Hand L = Left Hand	NBR	S: Without Coupling Flange	SAE C 4 bolt		SAE B 2 bolt	With High Pressure Relief Valve. Direct Acting.		

Specifications

Size		90	110
Displacement	mL/r	90	110
Max Speed @ Max Displacement	min	3050	3050
Flow	L/min	275	335.5
Power	kW	183	223.7
Torque	Nm	572	700
Approximate Weight	Kgs	48	48

HAA2FM Piston Motors

Bent Axis
SAE C 4 Bolt



Piston Motor

Part Number	Description	Through Drive	
		Mount	Splined Shaft
HAA2FM80/61W-VUX020	Piston Motor Bent Axis	SAE C 4 Bolt	1 3/8" 21T
HAA2FM90/61W-VUX020	Piston Motor Bent Axis	SAE C 4 Bolt	1 3/8" 21T

V10 Series

Vane Pumps

SAE A 2 Bolt Mount, UN O-ring Ports

Model	Ring Size Delivery US Gpm @1200 rpm	Displacement cc/rev	Max Speed rpm	Max Pressure bar	Dimension A mm	Dimension B mm
V10	1	3.3	4800	172	15.6	43.3
	2	6.6	4500	172	15.6	45
	3	9.8	400	172	15.6	46.5
	4	13.1	3400	172	22	46.5
	5	16.4	3200	172	22	47.5
	6	19.5	3000	152	27	47.5
	7	22.8	2800	138	27	48.3
V10F	Including Flow Control & Relief Head					
V10P	Including Priority Flow & Relief Head					

See Ordering Code Page 12



V10

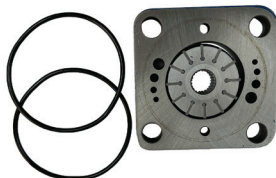


V10F



V10P

V10 Cartridges



Part Number	Ring Size Delivery US Gpm @ 1200 rpm	cc/rev
PC-V10-1-R-20	1	3.3
PC-V10-2-R-20	2	6.6
PC-V10-3-R-20	3	9.8
PC-V10-4-R-20	4	13.1
PC-V10-5-R-20	5	16.4
PC-V10-6-R-20	6	19.5
PC-V10-7-R-20	7	22.8

V10 Shafts

Part Number	Description
PS-V10-1-20	Shaft 3/4" Straight Keyed
PS-V10-11-20	Shaft SAE A 5/8" 9T Splined
PS-V10-38-20	Shaft 3/4" 11T Splined

V10 Kits

PSK-V10-20	V10 Seal Kit
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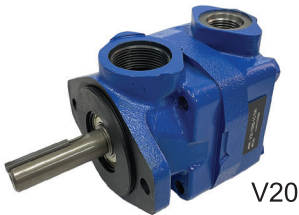
V20 Series

Vane Pumps

SAE A 2 Bolt Mount, UN O-ring Ports

Model	Ring Size Delivery US Gpm @1200 r pm	Displacement cc/rev	Max Speed rpm	Max Pressure bar	Dimension A mm	Dimension B mm
V20	6	19.5	3400	172	15.6	64.8
	7	22.8	3000	172	22	63.5
	8	26.5	2800	172	22	64
	9	29.7	2800	172	22	65.3
	11	36.4	2500	172	27	65.3
	12	39.0	2400	152	30.5	64.8
	13	42.4	2400	152	30.5	65.3
V20F	Including Flow Control & Relief Head					
V20P	Including Priority Flow and Relief Head					

See Ordering Code Page 12



V20

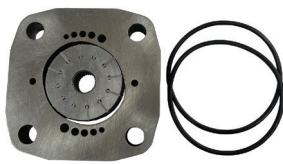


V20F



V20P

V20 Cartridges



Part Number	Ring Size Delivery US Gpm @ 1200 rpm	cc/rev
PC-V20-6-R-20	6	19.5
PC-V20-7-R-20	7	22.8
PC-V20-8-R-20	8	26.5
PC-V20-9-R-20	9	29.7
PC-V20-10-R-20	10	30
PC-V20-11-R-20	11	36.4
PC-V20-12-R-20	12	39.0
PC-V20-13-R-20	13	42.4
PC-V20-14-R-20	14	45

V20 Shafts

Part Number	Description
PS-V20-1-20	Shaft 3/4" Straight Keyed
PS-V20-11-20	Shaft 3/4" 11T Splined
PS-V20-38-20	Shaft 3/4" 11T Splined Heavy Duty
PS-V20-62-20	Shaft SAE A 5/8" 9T Splined

V20 Kits

PSK-V20-10	V20 Seal Kit
PSS-V20-10	V20 Shaft Seal

V10 and V20 Ordering Codes

(F3-)	V10	-P	7	S	-1	C	20	-L
Prefix	Series	Inlet Port Connections	Code	Outlet Port Connections	Shafts	Outlet Positions	Design	Rotation
Omit- Using Antiwear Oil Water Glycol fluid F3- Phosphate ester fluid	V10	P-1" NPT Thread S-1.3125-12 Straight Thread (1 5/16" UNO) B-G1" Thread	1, 2, 3, 4 5, 6, 7	P-1/2" NPT Thread S-0.750-16 Straight Thread (3/4" UNO) B-G1/2" Thread	1-3/4" Str. Keyed 11-9T Splined	Viewed from cover end of pump A - Opposite Inlet Port B - 90°CCW from Inlet C - Inline with Inlet D - 90° CW from Inlet	20	Viewed from shaft end of pump L - Left Hand for counter clockwise R - Right Hand for clockwise
	V20	P-1-1/4" NPT Thread S-1.625-12 Straight Thread (1 5/8" UNO) B-G1-1/4" Thread	6, 7, 8, 9 10, 11, 12 13, 14	P-3/4" NPT Thread S-1.065-12 Straight Thread (1 1/6" UNO) B-G3/4" Thread	38-11 Tooth - 3/4" OD 62-Spline (V20 Only)		10	

V10F & P and V20F & P Ordering Codes

(F3-)	V20	F	-P	13	S	-1	A	8H		22	-L
Prefix	Series	Integral Valves	Inlet Port Connections	Code	Outlet Port Connections	Shafts	Outlet Positions	Integral Valves		Design	Rotation
Omit-Using antiwear oil Water Glycol fluid F3- Phosphate Ester Fluid	V10	F: Flow Control & Relief P: Priority Valve & Relief	D: 1 5/16-12str. Thread (V20 Only) P: 1" NPT Thread (v10 only) 1 1/4" NPT Thread (V20 only)	1 2 3 4 5 6 7	See Chart Below	1-3/4" Straight Keyed 3: Threaded with Woodruff Key 11: Splined V10 Only 12: Splined V10 Only 38: Splined 62 - SAE A Spline (V20 Only) See Charts	Viewed from cover end of pump A - Opposite Inlet Port B - 90°CCW from Inlet C - Inline with Inlet D - 90°CW from Inlet	Orifice No. Flow Rate LPM 2-8 3-11 4-15 5-19 6-23 7-27 8-30	Relief Valve Setting MPa A - 1.7 B - 3.5 C - 5.2 D - 7 E - 8.6 F - 10 G - 12.1 H - 14 J - 15.5 K - 17.5	22	Viewed from shaft end of pump L - Left Hand for counter clockwise R - Right Hand for clockwise
	V20		S: 1 5/16-12 Straight Thread (V10 only) 1 5/8" - 12 Straight Thread (V20 only) T: 1 3/16-12 Straight Thread (V10 only)	6 7 8 9 10 11 12 13							

Porting

Code	Flow Control Cover		Priority Valve Cover		
	Pressure	Tank	Primary Outlet	Secondary Outlet	Tank
K	-	-	9/16-18 (V10P)	3/4-16 (V10P)	9/16-18 (V10P)
P	9/16-18 (V10F & V20F)	1/2" NPT (V10F & V20F)	-	-	-
S	3/4-16 (V10F)	1-1/16-12 (V20F)			
T	3/4-16 (V10F)	3/4-16 (V10F)	3/4-16 (V20P)	7/8-14 (V20P)	3/4-16 (V20P)

Single VQ Vane Pumps



Model	Cartridge Code	cc/rev	Max rpm	Max Press bar
20VQ SAE B 2 Bolt Mtg	2	7	2700	210
	3	11.7	2700	210
	4	15	2700	210
	5	18	2700	210
	6	19	2700	210
	7	22	2700	210
	8	27	2700	210
	9	30	2700	210
	10	31.5	2700	210
	11	36	2700	210
	12	40	2700	160
	14	45	2700	140
25VQ SAE B 2 Bolt Mtg	10	32.5	2700	210
	12	38.3	2700	210
	14	43.3	2700	210
	15	47.3	2500	210
	17	52.5	2500	210
	19	60	2500	210
	21	65	2500	210
35VQ SAE C 2 Bolt Mtg	21	64	2500	210
	25	79.2	2500	210
	30	95	2500	210
	32	101	2500	210
	35	109	2400	210
	38	118	2400	210
	45	140	2400	210
45VQ SAE C 2 Bolt Mtg	42	134	2400	175
	45	147	2200	175
	50	156	2200	175
	57	180	2200	175
	60	189	2200	175
	66	208	2200	175
	75	237	2200	140

*Refer next page for ordering code

Ordering Code

(F3-)	20VQ	11	A	(F)	-1	A	30	*
Prefix	Series	Cartridge Code	Port Connections	Mounting	Shaft	Outlet Position	Design	Rotation
Omit-Using antiwear oil water Glycol Fluid F3 - Phosphate Ester Fluid	20VQ	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14	A - SAE 4 Bolt Flange	Omit- Flange Mtd F - Foot Mtg	1 - Str Key 151 - Spline	Viewed from cover end of pump	30	Viewed from shaft end of pump Omit - RH L - LH
	25VQ	10, 12, 14, 15, 17, 19, 21			1 - Str Key 86 - HD Str Key 11 - Spline	A - Opposite inlet port	20	
	35VQ	21, 25, 30, 32, 35, 38, 45				B - 90° CCW from inlet		
	45VQ	42, 45, 50, 57, 60, 66, 75				C - Inline with Inlet D - 90° CW from Inlet		



Cartridges

Part Number	Description
F3-PC-20VQ-**-R-10	Cartridge 20VQ
F3-PC-25VQ-**-R-10	Cartridge 25VQ
F3-PC-35VQ-**-R-10	Cartridge 35VQ
F3-PC-45VQ-**-R-10	Cartridge 45VQ

Seal Kits

PSK-20VQ-10	20VQ Seal Kit
PSK-25VQ-10	25VQ Seal Kit
PSK-35VQ-10	35VQ Seal Kit
PSK-45VQ-10	45VQ Seal Kit

Shafts

PS-20VQ-1-30	Shaft 7/8" Straight Keyed
PS-20VQ-151-30	Shaft SAE B 7/8" 13T Splined
PS-25VQ-1-20	Shaft 7/8" Straight Keyed
PS-25VQ-11-20	Shaft SAE B 7/8" 13T Splined
PS-25VQ-86-20	Shaft 1" Straight Keyed
PS-35VQ-1-20	Shaft 1 1/4" Straight Keyed
PS-35VQ-11-20	Shaft SAE C 1 1/4" 14T Splined
PS-35VQ-86-20	1 3/8" Straight Keyed
PS-45VQ-1-20	Shaft 1 1/4" Straight Keyed
PS-45VQ-11-20	Shaft SAE C 1 1/4" 14T Splined
PS-45VQ-86-20	Shaft 1 1/2" Straight Keyed

Double VQ Vane Pumps

Model	Front Section (cc/rev)	Ports SAE Flanged	Rear Section (cc/rev)	Front Flange Mount	Shaft
2520VQ	32.5, 38.3, 43.3, 47.3, 52.5, 60, 65	2 1/2" Suction 1" Pressure Front 3/4" Pressure Rear	7, 11.7, 15, 18, 19, 22, 27, 30, 31.5, 36, 40, 45	SAE B 2 Bolt	7/8" Keyed
3520VQ	64, 79.2, 95, 101, 109, 118	3" Suction 1 1/4" Pressure Front 3/4" Pressure Rear	7, 11.7, 15, 18, 19, 22, 27, 30, 31.5, 36, 40, 45	SAE C 2 Bolt	1 1/4" Keyed or 1 1/2" Keyed or SAE C 14T Splined
3525VQ	64, 79.2, 95, 101, 109, 118	3" Suction 1 1/4" Pressure Front 1" Pressure Rear	32.5, 38.3, 43.3, 47.3, 52.5, 60, 65		
4520VQ	134, 147, 156, 180, 189, 208, 237	3 1/2" Suction 1 1/2" Pressure Front 3/4" Pressure Rear	7, 11.7, 15, 18, 19, 22, 27, 30, 31.5, 36, 40, 45		
4525VQ	134, 147, 156, 180, 189, 208, 237	3" 1/2" Suction 1 1/2" Pressure Front 1" Pressure Rear	32.5, 38.3, 43.3, 47.3, 52.5, 60, 65		
4535VQ	134, 147, 156, 180, 189, 208, 237	4" Suction 1 1/2" Pressure Front 1 1/4" Pressure Rear	64, 79.2, 95, 101, 109, 118, 140		

*Refer next page for ordering code



Ordering Code

(F3-)	****VQ	** Cartridge Code	A	** Cartridge Code	(F)	-*	**	20	*
Prefix	Series	Front Pump (Shaft End)	Port Connections	Rear Pump (Cover End)	Mounting	Shaft	Port Orientation	Design	Rotation
Omit-Using Antiwear Oil Water Glycol Fluid F3 - Phosphate Ester Fluid	2520VQ	10, 12, 14, 15, 17, 19, 21	A - SAE 4 Bolt Flange	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14	Omit - Flange Mtg F - Foot Mtg	1 - Straight Key 86 - HD Straight Key 11 - Spline	CC Std See Catalogue	20	Viewed from shaft end of pump Omit - RH L - LH
	3525VQ	21, 25, 30, 32, 35, 38, 45		10, 12, 14, 15, 17, 19, 21					
	4525VQ	42, 45, 50, 57, 60, 66, 75		10, 12, 14, 15, 17, 19, 21					
	3520VQ	21, 25, 30, 32, 35, 38, 45		2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14					
	4520VQ	42, 45, 50, 57, 60, 66, 75		2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14					
	4535VQ	42, 45, 50, 57, 60, 66, 75		21, 25, 30, 32, 35, 38, 45					

Cartridges

Part Number	Description
F3-PC20VQ-**R-10	Front Cartridge 20VQ
F3-PC25VQ-**R-10	Front Cartridge 25VQ
F3-PC35VQ-**R-10	Front Cartridge 35VQ
F3-PC45VQ-**R-10	Front Cartridge 45VQ
F3-PCT20VQ-**R-10	Rear Cartridge 20VQ
F3-PCT25VQ-**R-10	Rear Cartridge 25VQ
F3-PCT35VQ-**R-10	Rear Cartridge 35VQ

Seal Kits

PSK-2520VQ-10	2520VQ Seal Kit
PSK-3520VQ-10	3520VQ Seal Kit
PSK-3525VQ-10	3525VQ Seal Kit
PSK-4520VQ-10	4520VQ Seal Kit
PSK-4525VQ-10	4525VQ Seal Kit
PSK-4535VQ-10	4535VQ Seal Kit

Shafts

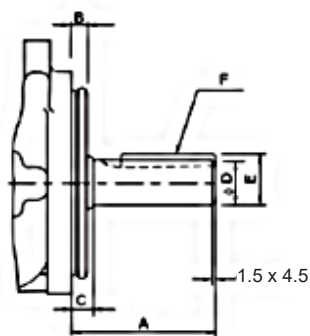
PS-2520VQ-1-20	Shaft 7/8" Straight Keyed
PS-2520VQ-11-20	Shaft SAE B 78" 13T Splined
PS-2520VQ-86-20	Shaft 1" Straight Keyed
PS-352*VQ-1-20	Shaft 1 1/4" Straight Keyed
PS-352*VQ-11-20	Shaft SAE C 1 1/4" 14T Splined
PS-352-*VQ-86-20	1 3/8" Straight Keyed
PS-45**VQ-1-20	Shaft 1 1/4" Straight Keyed
PS-45**VQ-11-20	Shaft SAE C 1 1/4" 14T Splined
PS-45**VQ-86-20	Shaft 1 1/2" Straight Keyed

Straight Keyed Shafts

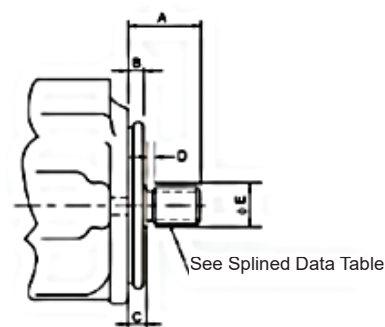
Model VQ	Shaft Code	A	B	C	D	E	F Key Width X Length
20VQ	1	59	9.53	12.1	22.23/22.20	24.5/24.4	4.76 x 32
25VQ	1	59	9.53	11.1	22.23/22.20	24.5/24.4	4.76 x 32
2520VQ	86	78	9.53	11.1	25.37/25.35	28.3/28.1	6.36 x 50.8
35VQ	1	73.2	9.53	11.1	31.75/31.70	35.36/34.10	7.94 x 38.1
352*VQ	86	86	9.53	11.1	34.90/34.87	38.6/38.3	7.94 x 54
45VQ	1	62	12.7	14.22	21.75/31.70	35.36/34.10	7.94 x 28.5
45**VQ	86	87.4	12.7	14.22	38.07/38.05	42.4/42.1	9.54 x 50.8

Splined Shafts

20VQ	151	41.1	9.53	11.1	3.9	27.8	7/8" Dia 13T 16/32
25VQ 2520VQ	11	44.5	9.53	11.1	3.9	27.8	7/8" Dia 13T 16/32
35VQ 352*VQ	11	58.7	9.53	11.1	6.35	35.1	1 1/4" Dia 14T 12/24
45VQ 45**VQ	11	61.9	12.7	14.3	9.7	39.6	1 1/4" Dia 14T 12/24
20VQ	151	41.1	9.53	11.1	3.9	27.8	7/8" Dia 13T 16/32
25VQ 2520VQ	11	44.5	9.53	11.1	3.9	27.8	7/8" Dia 13T 16/32
35VQ 352*VQ	11	58.7	9.53	11.1	6.35	35.1	1 1/4" Dia 14T 12/24
45VQ 45**VQ	11	61.9	12.7	14.3	9.7	39.6	1 1/4" Dia 14T 12/24



Straight Keyed Shaft



Splined Shaft



Group 1 Single Pumps

Taper Shaft 1:8
3/8" BSPP Threaded Ports



Standard Alloy End Plates

High Pressure Cast Iron End Plates Available Upon Request

Part Number	cc/rev	Ports	
		Pressure	Suction
PZ1A11C401D	1.1cc	3/8" BSPP	3/8" BSPP
PZ1A16C401D	1.6cc		
PZ1A21C401D	2.1cc		
PZ1A26C401D	2.6cc		
PZ1A32C401D	3.2cc		
PZ1A37C401D	3.7cc		
PZ1A42C401D	4.2cc		
PZ1A48C401D	4.8cc		
PZ1A55C401D	5.5cc		
PZ1A62C401D	6.2cc		
PZ1A78C401D	7.8cc		
PZ1A88C401D	8.8cc		

For Left Hand Rotation - Change D to S



Group 1 Multiple Pumps

Threaded Ports
Max Torque 27NM
Assembly Kits Supplied with Multiple Pumps



Front Pump

Part Number	cc/rev	L Dim	Ports	
			Pressure	Suction
PZ1A11C401AD	1.1cc	38.3	3/8" BSPP	3/8" BSPP
PZ1A16C401AD	1.6cc	40.3		
PZ1A21C401AD	2.1cc	42.3		
PZ1A26C401AD	2.6cc	44.3		
PZ1A32C401AD	3.2cc	46.5		
PZ1A37C401AD	3.7cc	48.6		
PZ1A42C401AD	4.2cc	50.6		
PZ1A48C401AD	4.8cc	53		
PZ1A55C401AD	5.5cc	55.8		
PZ1A62C401AD	6.2cc	58.6		
PZ1A78C401AD	7.8cc	65		
PZ1A88C401AD	8.8cc	69		

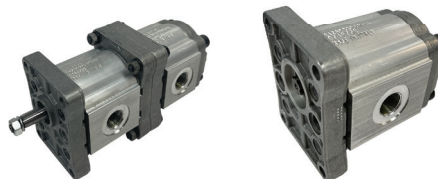
Multiple Pump Assembly Kit Required.



Intermediate Pump

Part Number	cc/rev	Ports	
		Pressure	Suction
PZ1A110001ID	1.1cc	3/8" BSPP	3/8" BSPP
PZ1A160001ID	1.6cc		
PZ1A210001ID	2.1cc		
PZ1A260001ID	2.6cc		
PZ1A320001ID	3.2cc		
PZ1A370001ID	3.7cc		
PZ1A420001ID	4.2cc		
PZ1A480001ID	4.8cc		
PZ1A550001ID	5.5cc		
PZ1A620001ID	6.2cc		
PZ1A780001ID	7.8cc		
PZ1A880001ID	8.8cc		

Multiple Pump Assembly Kit Required.



Rear Pump

Part Number	cc/rev	Ports	
		Pressure	Suction
PZ1A0110001PD	1.1cc	3/8" BSPP	3/8" BSPP
PZ1A0160001PD	1.6cc		
PZ1A0210001PD	2.1cc		
PZ1A0260001PD	2.6cc		
PZ1A0320001PD	3.2cc		
PZ1A0370001PD	3.7cc		
PZ1A0420001PD	4.2cc		
PZ1A0480001PD	4.8cc		
PZ1A0550001PD	5.5cc		
PZ1A0620001PD	6.2cc		
PZ1A0780001PD	7.8cc		
PZ1A0880001PD	8.8cc		

Multiple Pump Assembly Kit Required.

Assembly Kits

Part Number	Description	Pump Type +	Pump Type
K1000000	Group 1 to Group 1	PZ1A 4, 6, 8, 11, 14, 17, 20, 25, 31	PZ1A 4, 6, 8, 11, 14, 17, 20, 25, 31

Seal Kits

Part Number	Description
PZ1A-SK	Group 1 Body Seal Kit
PZ1A-SS	Group 1 Shaft Seal

Specifications

Type		1.1	1.6	2.1	2.6	3.2	3.7	4.2	4.8	5.5	6.2	7.8	8.8
Capacity	cc/rev	1,08	1,59	2,09	2,59	3,15	3,68	4,19	4,79	5,49	6,2	7,81	8,82
Max. Working Pressure	bar	210	210	210	210	210	210	190	180	160	140	120	100
Peak Pressure	bar	250	250	250	250	250	250	230	220	200	180	160	140
Max. Speed for P1 Pressure	r.p.m	6000	6000	6000	5500	4500	4000	3800	3500	3500	3000	3000	3000
Max. Speed Without Load	r.p.m	8000	8000	8000	8000	7000	6000	5500	5000	4500	4500	4000	4000
Min. Speed for P1 (unidirect)	r.p.m	1100	950	800	700	600	500	450	400	400	400	400	400
Overall Dimensions	A	73,8	75,8	77,8	79,8	82	84,1	86,1	88,5	91,3	94,1	100,5	104,5
	B	34,6	35,6	36,6	37,6	38,7	39,8	40,8	42	43,4	44,8	48	50

PZ1 Model Identification Code

PZ1A	11	C	4	01	A	D
------	----	---	---	----	---	---

Model

A = Alloy End Plate
AG = Cast Iron End Plate

Capacity cc/rev

1.1
1.6
2.1
2.6
3.2
3.7
4.2
4.8
5.5
6.2
7.8
8.8

Input Shaft

C = Taper Shaft
0 = Splined Shaft

Ports

01 = 3/8" BSPP

Rotation

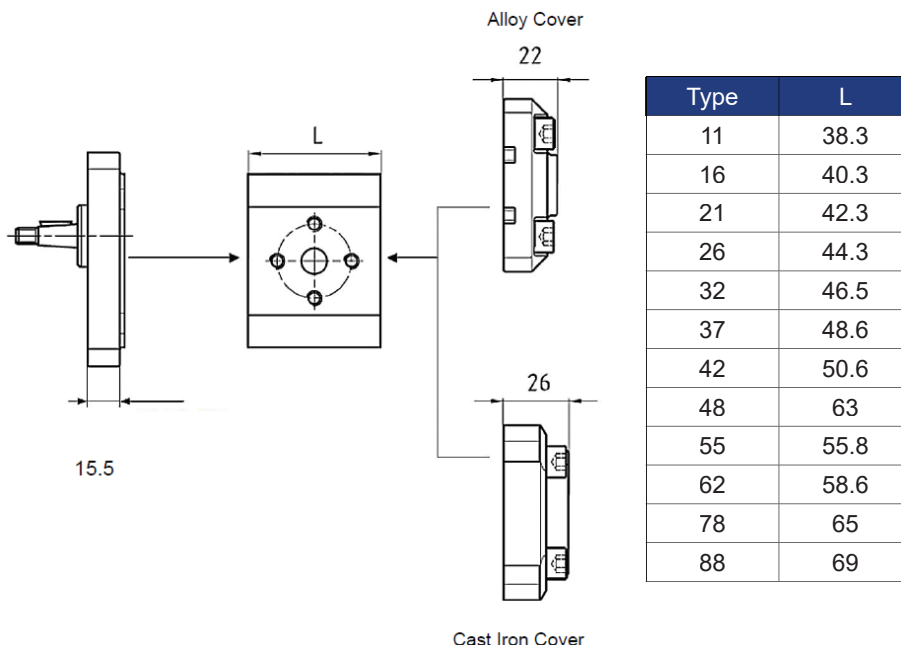
D = Right Hand
S = Left Hand

Flange

0 = Intermediate & Rear
4 = Single & Front

Type

= Single
A = Front
I = Intermediate
P = Rear



PZ2AG

Group 2

1:8 Taper Shaft

BSPP Threaded Ports



Part Number	cc/rev	Length mm	Ports	
			Pressure	Suction
PZ2AG04C034TD	4.40	88	1/2" BSPP	1/2" BSPP
PZ2AG06C034TD	6.28	91	1/2" BSPP	1/2" BSPP
PZ2AG08C034TD	8.16	94	1/2" BSPP	1/2" BSPP
PZ2AG11C034TD	11.30	107	1/2" BSPP	1/2" BSPP
PZ2AG14C034TD	14.45	112	1/2" BSPP	3/4" BSPP
PZ2AG17C034TD	16.95	116	1/2" BSPP	3/4" BSPP
PZ2AG20C034TD	20.10	121	1/2" BSPP	3/4" BSPP
PZ2AG25C034TD	25.75	130	1/2" BSPP	3/4" BSPP
PZ2AG31C034TD	31.40	139	1/2" BSPP	3/4" BSPP

Cast Iron Covers and Special Busings, Projected for Heavy Duty.

For Left Hand Rotation, Change D to S.

PZ2AG

Group 2

1:8 Taper Shaft

Flanged Ports



Part Number	cc/rev	Length mm	Flanged Porting					
			Pressure			Suction		
			D	E	F	D	E	F
PZ2AG04C032D	4.40	88	30	13	M6	30	13	M6
PZ2AG06C032D	6.28	91	30	13	M6	30	13	M6
PZ2AG08C032D	8.16	94	30	13	M6	30	13	M6
PZ2AG11C033D	11.30	107	30	13	M6	40	20	M8
PZ2AG14C033D	14.45	112	30	13	M6	40	20	M8
PZ2AG17C033D	16.95	116	30	13	M6	40	20	M8
PZ2AG20C033D	20.10	121	30	13	M6	40	20	M8
PZ2AG25C033D	25.75	130	30	13	M6	40	20	M8
PZ2AG31C033D	31.40	139	30	13	M6	40	20	M8

Cast Iron Covers and Special Bushings, Projected for Heavy Duty.

For Left Hand Rotation, Change D to S.

PZ2CG

SAE A 2 Bolt Mount
BSPP Threaded Ports



SAE 5/8" Keyed Shaft 5/32" Key

Part Number	cc/rev	Length mm	Porting	
5/8" Keyed Shaft			Pressure	Suction
PZ2CG04L4034TD	4.40	88	1/2" BSPP	1/2" BSPP
PZ2CG06L4034TD	6.28	91	1/2" BSPP	1/2" BSPP
PZ2CG08L4034TD	8.16	94	1/2" BSPP	1/2" BSPP
PZ2CG11L4034TD	11.30	107	1/2" BSPP	1/2" BSPP
PZ2CG14L4041TD	14.45	112	3/4" BSPP	3/4" BSPP
PZ2CG17L4041TD	16.95	116	3/4" BSPP	3/4" BSPP
PZ2CG20L4041TD	20.10	121	3/4" BSPP	3/4" BSPP
PZ2CG25L4041TD	25.75	130	3/4" BSPP	3/4" BSPP
PZ2CG31L4041TD	31.40	139	3/4" BSPP	3/4" BSPP

Cast Iron Covers and Special Busings, Projected for Heavy Duty.

For Left Hand Rotation, Change D to S.



SAE 9T Splined Shaft

Part Number	cc/rev	Length mm	Porting	
9T SAE A Splined Shaft			Pressure	Suction
PZ2CG04S4034TD	4.40	88	1/2" BSPP	1/2" BSPP
PZ2CG06S4034TD	6.28	91	1/2" BSPP	1/2" BSPP
PZ2CG08S4034TD	8.16	94	1/2" BSPP	1/2" BSPP
PZ2CG11S4034TD	11.30	107	1/2" BSPP	1/2" BSPP
PZ2CG14S4041TD	14.45	112	3/4" BSPP	3/4" BSPP
PZ2CG17S4041TD	16.95	116	3/4" BSPP	3/4" BSPP
PZ2CG20S4041TD	20.10	121	3/4" BSPP	3/4" BSPP
PZ2CG25S4041TD	25.75	130	3/4" BSPP	3/4" BSPP
PZ2CG31L4041TD	31.40	139	3/4" BSPP	3/4" BSPP

Cast Iron Covers and Special Bushings, Projected for Heavy Duty.

For Left Hand Rotation, Change D to S.

PZ2BG

German Style
80mm Spigot
1:5 Taper Shaft
Square Flange Ports



Part Number	cc/rev	Shaft	Length mm	Pressure Port			Suction Port		
1:5 Taper Shaft				C	D	E	C	D	E
PZ2BG04A136D	4.40	Taper	88	35	15	M6	40	20	M6
PZ2BG06A136D	6.28	Taper	91	35	15	M6	40	20	M6
PZ2BG08A136D	8.16	Taper	94	35	15	M6	40	20	M6
PZ2BG11A136D	11.30	Taper	107	35	15	M6	40	20	M6
PZ2BG14A136D	14.45	Taper	112	35	15	M6	40	20	M6
PZ2BG17A136D	16.95	Taper	116	35	15	M6	40	20	M6
PZ2BG20A136D	20.10	Taper	121	35	15	M6	40	20	M6
PZ2BG25A136D	25.75	Taper	130	35	15	M6	40	20	M6

For Left Hand Rotation, Change D to S.

PZ2BG

German Style
80mm Spigot
Splined 9T DIN



Part Number	cc/rev	Shaft DIN	Length mm	Pressure Port			Suction Port		
Splined 9T DIN				C	D	E	C	D	E
PZ2BG04B136D	4.40	9T Spline	88	35	15	M6	40	20	M6
PZ2BG06B136D	6.28	9T Spline	91	35	15	M6	40	20	M6
PZ2BG08B136D	8.16	9T Spline	94	35	15	M6	40	20	M6
PZ2BG11B136D	11.30	9T Spline	107	35	15	M6	40	20	M6
PZ2BG14B136D	14.45	9T Spline	112	35	15	M6	40	20	M6
PZ2BG17B136D	16.95	9T Spline	116	35	15	M6	40	20	M6
PZ2BG20B136D	20.10	9T Spline	121	35	15	M6	40	20	M6
PZ2BG25B136D	25.75	9T Spline	130	35	15	M6	40	20	M6

For Left Hand Rotation, change D to S.

PZ2DG

Deutz Style
50mm Spigot
1:5 Taper Shaft



Part Number RH Rotation	cc/rev	Shaft	Length mm	Pressure Port			Suction Port		
				C	D	E	C	D	E
PZ2DG04A336D	4.40	Taper	88	35	15	M6	40	20	M6
PZ2DG06A336D	6.28	Taper	91	35	15	M6	40	20	M6
PZ2DG08A336D	8.16	Taper	94	35	15	M6	40	20	M6
PZ2DG11A336D	11.30	Taper	107	35	15	M6	40	20	M6
PZ2DG14A336D	14.45	Taper	112	35	15	M6	40	20	M6
PZ2DG17A336D	16.95	Taper	116	35	15	M6	40	20	M6
PZ2DG20A336D	20.10	Taper	121	35	15	M6	40	20	M6
PZ2DG25A336D	25.75	Taper	130	35	15	M6	40	20	M6

For Left Hand Rotation, Change D to S.

PZ2DG

Deutz Style
50mm Spigot
Splined 9T DIN

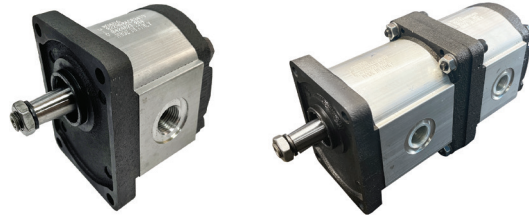


Part Number RH Rotation	cc/rev	Shaft	Length mm	Press Port			Suction Port		
				C	D	E	C	D	E
PZ2DG04B336D	4.40	9T Spline	88	35	15	M6	40	20	M6
PZ2DG06B336D	6.28	9T Spline	91	35	15	M6	40	20	M6
PZ2DG08B336D	8.16	9T Spline	94	35	15	M6	40	20	M6
PZ2DG11B336D	11.30	9T Spline	107	35	15	M6	40	20	M6
PZ2DG14B336D	14.45	9T Spline	112	35	15	M6	40	20	M6
PZ2DG17B336D	16.95	9T Spline	116	35	15	M6	40	20	M6
PZ2DG20B336D	20.10	9T Spline	121	35	15	M6	40	20	M6
PZ2DG25B336D	25.75	9T Spline	130	35	15	M6	40	20	M6

For Left Hand Rotation, Change D to S.

Group 2 Multiple Pumps

BSPP Threaded Ports
Connecting Kits Supplied with Multiple Pumps



Group 2 Front Pumps

1:8 Taper Shaft

Part Number	cc/rev	Porting		Dimension	
		Pressure	Suction	A	B
PZ2AG04C034TD	4.40	1/2" BSPP	1/2" BSPP	89	44.5
PZ2AG06C034TD	6.28	1/2" BSPP	1/2" BSPP	92	46
PZ2AG08C034TD	8.16	1/2" BSPP	1/2" BSPP	95	47.5
PZ2AG11C034TD	11.30	1/2" BSPP	1/2" BSPP	108	54
PZ2AG14C035TD	14.45	1/2" BSPP	3/4" BSPP	113	56.5
PZ2AG17C035TD	16.95	1/2" BSPP	3/4" BSPP	117	58.5
PZ2AG20C035TD	20.10	1/2" BSPP	3/4" BSPP	122	61
PZ2AG25C035TD	25.75	1/2" BSPP	3/4" BSPP	131	65.5
PZ2AG31C035TD	31.40	1/2" BSPP	3/4" BSPP	140	70

For Left Hand Rotation, Change D to S.

SAE A Front Pumps

2 Bolt Mount
BSPP Threaded Ports
5/8" Keyed Shaft



Part Number	cc/rev	Threaded Porting		Dimension	
		Pressure	Suction	A	B
PZ2CG04L4034TD	4.40	1/2" BSPP	1/2" BSPP	89	44.5
PZ2CG06L4034TD	6.28	1/2" BSPP	1/2" BSPP	92	46
PZ2CG08L4034TD	8.16	1/2" BSPP	1/2" BSPP	95	47.5
PZ2CG11L4034TD	11.30	1/2" BSPP	1/2" BSPP	108	54
PZ2CG14L4041TD	14.45	3/4" BSPP	3/4" BSPP	113	56.5
PZ2CG17L4041TD	16.95	3/4" BSPP	3/4" BSPP	117	58.5
PZ2CG20L4041TD	20.10	3/4" BSPP	3/4" BSPP	122	61
PZ2CG25L4041TD	25.75	3/4" BSPP	3/4" BSPP	131	65.5
PZ2CG31L4041TD	31.40	3/4" BSPP	3/4" BSPP	140	70

For Left Hand Rotation, Change D to S.

Group 2 Specifications on page 29

SAE A Front Pumps

2 Bolt Mount

BSPP Threaded Ports

9T SAE A Spline Shaft



Part Number	cc/rev	Threaded Porting		Dimension	
9T SAE A Splined Shaft		Pressure	Suction	A	B
PZ2CG04S4034TD	4.40	1/2" BSPP	1/2" BSPP	89	44.5
PZ2CG06S4034TD	6.28	1/2" BSPP	1/2" BSPP	92	46
PZ2CG08S4034TD	8.16	1/2" BSPP	1/2" BSPP	95	47.5
PZ2CG11S4034TD	11.30	1/2" BSPP	1/2" BSPP	108	54
PZ2CG14S4041TD	14.45	3/4" BSPP	3/4" BSPP	113	56.5
PZ2CG17S4041TD	16.95	3/4" BSPP	3/4" BSPP	117	58.5
PZ2CG20S4041TD	20.10	3/4" BSPP	3/4" BSPP	122	61
PZ2CG25S4041TD	25.75	3/4" BSPP	3/4" BSPP	131	65.5
PZ2CG31S4041TD	31.40	3/4" BSPP	3/4" BSPP	140	70

For Left Hand Rotation, Change D to S.



Intermediate Pumps

Part Number	cc/rev	Porting		Dim L
		Pressure	Suction	
PZ2AG04O034ID	4.40	1/2" BSPP	1/2" BSPP	51
PZ2AG06O034ID	6.28	1/2" BSPP	1/2" BSPP	54
PZ2AG08O034ID	8.16	1/2" BSPP	1/2" BSPP	57
PZ2AG11O034ID	11.30	1/2" BSPP	1/2" BSPP	70
PZ2AG14O035ID	14.45	1/2" BSPP	3/4" BSPP	75
PZ2AG17O035ID	16.95	1/2" BSPP	3/4" BSPP	79
PZ2AG20O035ID	20.10	1/2" BSPP	3/4" BSPP	84
PZ2AG25O035ID	25.75	1/2" BSPP	3/4" BSPP	93
PZ2AG31O035ID	31.40	1/2" BSPP	3/4" BSPP	102

Maximum torque loading must conform to the limitations of splined shaft.

Max torque is 100Nm.

For Left Hand Rotation, Change D to S.



Rear Pumps

Part Number	cc/rev	Porting		Dim L
		Pressure	Suction	
PZ2AG04O034ID	4.40	1/2" BSPP	1/2" BSPP	51
PZ2AG06O034ID	6.28	1/2" BSPP	1/2" BSPP	54
PZ2AG08O034ID	8.16	1/2" BSPP	1/2" BSPP	57
PZ2AG11O034ID	11.30	1/2" BSPP	1/2" BSPP	70
PZ2AG14O035ID	14.45	1/2" BSPP	3/4" BSPP	75
PZ2AG17O035ID	16.95	1/2" BSPP	3/4" BSPP	79
PZ2AG20O035ID	20.10	1/2" BSPP	3/4" BSPP	84
PZ2AG25O035ID	25.75	1/2" BSPP	3/4" BSPP	93
PZ2AG31O035ID	31.40	1/2" BSPP	3/4" BSPP	102

For Left Hand Rotation, change D to S.



Group 1 Rear Pumps

Part Number	cc/rev	Porting	
		Pressure	Suction
PZ1A0110001PD	1.1cc	3/8" BSPP	3/8" BSPP
PZ1A0160001PD	1.6cc	3/8" BSPP	3/8" BSPP
PZ1A0210001PD	2.1cc	3/8" BSPP	3/8" BSPP
PZ1A0260001PD	2.6cc	3/8" BSPP	3/8" BSPP
PZ1A0320001PD	3.2cc	3/8" BSPP	3/8" BSPP
PZ1A0370001PD	3.7cc	3/8" BSPP	3/8" BSPP
PZ1A0420001PD	4.2cc	3/8" BSPP	3/8" BSPP
PZ1A0480001PD	4.8cc	3/8" BSPP	3/8" BSPP
PZ1A0550001PD	5.5cc	3/8" BSPP	3/8" BSPP
PZ1A0620001PD	6.2cc	3/8" BSPP	3/8" BSPP
PZ1A0780001PD	7.8cc	3/8" BSPP	3/8" BSPP
PZ1A0880001PD	8.8cc	3/8" BSPP	3/8" BSPP

For Left Hand Rotation, Change D to S.

Assembly Kits Group 2 to Group 1

Part Number	Description	Pump Type +	Pump Type
K2000003	Group 2 to Group 1	PZ2A 31, 25, 17, 14, 11	PZ1A 4, 6, 8, 11, 14, 17, 20, 25, 31
K2000004	Group 2 to Group 1	PZ2A 8, 6, 4	PZ1A 4, 6, 8, 11, 14, 17, 20, 25, 31

Maximum torque loading must conform to the limitations of splined shaft. Max torque is 27Nm.

Group 2 Specifications on page 29

Seal Kits

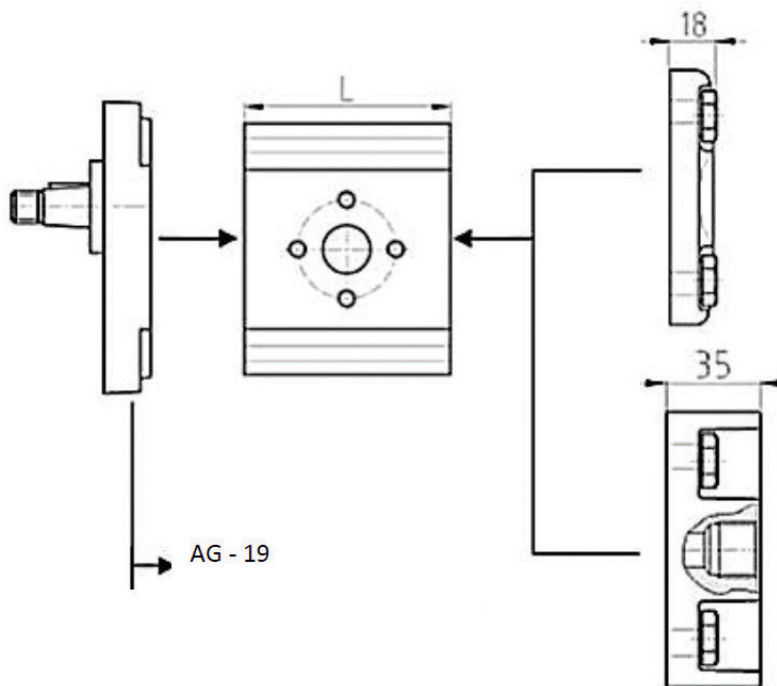
Part Number	Description
PZ2A-SK	Group 2 Body Seal Kit
PZ2A-SS	Group 2 Shaft Seal

Port Adaptors

EBP-2	35mm PCD Port Adaptor 1/2" BSPP
EBP-4	40mm PCD Port Adaptor 3/4" BSPP

Assembly Kits

Part Number	Description	Pump Type +	Pump Type
K2000000	Group 2 to Group 2	PZ2A 31, 25, 20, 17, 14, 11	PZ2A 31, 25, 20, 17, 14, 11
K2000001	Group 2 to Group 2	PZ2A 31, 25, 17, 14, 11	PZ2A 8, 6, 4
K2000002	Group 2 to Group 2	PZ2A 8, 6, 4	PZ2A 8, 6, 2
K2000003	Group 2 to Group 1	PZ2A 31, 25, 17, 14, 11	PZ1A 4, 6, 8, 11, 14, 17, 20, 25, 31
K2000004	Group 2 to Group 1	PZ2A 8, 6, 4	PZ1A 4, 6, 8, 11, 14, 17, 20, 25, 31



Type	L
04	51
06	54
08	57
11	70
14	75
17	79
20	84
25	93
31	102

PZ2 Group 2 Gear Pump Specifications



PZ2 Model Identification Code

PZ2-AG	04	C	0	34	D
Model PZ2-AG Italian Style PZ2-BG German Style PZ2-CG SAE Style PZ2-DG Deutz/IHC Style PZ2-EG Rear/Tang Drive	Capacity cc/rev 04 06 08 11 14 17 20 25 31	Shaft A Taper 1:5 B Splined 9T DIN C Taper 1:8 E Parallel 15mm F Tang L Parallel 5/8" S Splined 9T SAE A	Model 0 = PZ2-AG 1 = PZ2-BG 2 = PZ2-EG 3 = PZ2-DG 4 = PZ2-CG	Ports 32 - Flange Type - 4/6/8/11 33 - Flange Type - 14/17/20/25/31 34 - BSPP Type - 4/6/8/11 35 - BSPP Type - 14/17/20/25/31 36 - Flange All 41 - BSPP Type - 14/17/20/25/31	Rotation D = Right Hand S = Left Hand

Hydraulic Fluids	Mineral Oil (DIN 51524) For use with fire resistant fluids like water glycol, water - emulsion and phosphate esters
Inlet Pressure	0.7 - 3 Bar (Absolute)
Oil Speed on Suction Line	0.5 - 1.5 m/s
Oil Speed on Pressure Line	6 - 10 m/s
Oil Temperature	-10 Deg C - 80 Deg C
Oil Viscosity	20 - 120 mm ² /s (Cst)
Max Starting Viscosity	700 mm ² /s (Cst)

Type		04	06	08	11	14	17	20	25	31
Capacity	Cm ³ /rev	4.4	6.28	8.16	11.3	14.45	16.95	20.1	25.75	31.4
P1 Max Working Pressure	Bar	300	300	300	300	300	250	210	160	130
P2 Max Peak Pressure	Bar	360	360	360	360	330	310	270	210	150
Max Speed for P1 Pressure	Rpm	4500	4500	3700	3300	2700	2500	2500	2500	2200
Max Speed without Load	Rpm	5500	5500	4700	4000	3300	3000	3000	3000	2700
Min Speed for P1 Pressure	Rpm	1000	700	550	450	400	350	300	250	200

With Bi-directional pumps or motors, pressure is reduced by 15% and the case drain must be fitted.

Shaft Load Capacity

Shaft Code	Shaft Description	Max Torque (Nm)	IMPORTANT When applying a multiple pump, the drive shaft load is the sum of torque of each section. This value can not exceed the value in the table.
A	1:5 Taper	110	
B	Din 5482 B17 x 14 Spline	110	
C	1:8 Taper	150	
E	15mm Str Keyed	75	
F	Tang	75	
L	5/8" Str Keyed	75	
M	Tang	75	
N	19mm Str Keyed	110	
S	SAE A 9T Spline	75	



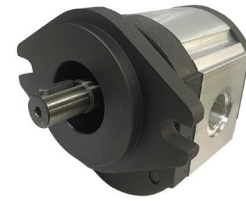
PZ3AG Group 3

BSPP Threaded Ports

1:8 Taper Shaft

Part Number	cc/rev	Max Working Pressure bar	Ports
RH Rotation			
PZ3AG25C064TD	25	280	1" BSPP
PZ3AG30C064TD	30	280	1" BSPP
PZ3AG35C064TD	35	280	1" BSPP
PZ3AG40C064TD	40	250	1" BSPP
PZ3AG45C064TD	45	250	1" BSPP
PZ3AG55C065TD	55	230	1 1/4" Suction 1" BSPP Pressure
PZ3AG64C065TD	64	200	1 1/4" Suction 1" BSPP Pressure
PZ3AG80C067TD	80	190	1 1/2" Suction 1 1/4" BSPP Pressure

Cast Iron Covers and Special Bushings, Projected for Heavy Duty.



PZ3BG SAE B

BSPP Threaded Ports

7/8" Straight Keyed Shaft

Part Number	cc/rev	Max Working Pressure bar	Ports
RH Rotation			
PZ3BG25L364TD	25	280	1" BSPP
PZ3BG30L364TD	30	280	1" BSPP
PZ3BG35L364TD	35	280	1" BSPP
PZ3BG40L364TD	40	250	1" BSPP
PZ3BG45L364TD	45	250	1" BSPP
PZ3BG55L365TD	55	230	1 1/4" Suction 1" BSPP Pressure
PZ3BG64L365TD	64	200	1 1/4" Suction 1" BSPP Pressure
PZ3BG80L367TD	80	190	1 1/2" Suction 1 1/4" BSPP Pressure

Cast Iron Covers and Special Bushings, Projected for Heavy Duty.



PZ3BG SAE B

BSPP Threaded Ports

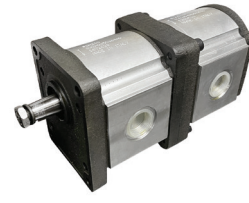
7/8" 13T Splined Shaft

Part Number	cc/rev	Max Working Pressure bar	Ports
RH Rotation			
PZ3BG20B364TD	20	280	1" BSPP
PZ3BG25B364TD	25	280	1" BSPP
PZ3BG30B364TD	30	280	1" BSPP
PZ3BG35B364TD	35	280	1" BSPP
PZ3BG40B364TD	40	250	1" BSPP
PZ3BG45B364TD	45	250	1" BSPP
PZ3BG55B365TD	55	230	1 1/4" Suction 1" BSPP Pressure
PZ3BG64B365TD	64	200	1 1/4" Suction 1" BSPP Pressure
PZ3BG80B367TD	80	190	1 1/2" Suction 1 1/4" BSPP Pressure

Cast Iron Covers and Special Bushings, Projected for Heavy Duty.

Group 3 Multiple Pumps

BSPP Threaded Ports
Connecting Kits Supplied with Multiple Pumps



PZ3AG Group 3 Front Pump 1:8 Taper Shaft

Part Number	cc/rev	Max Working Pressure bar	Ports
RH Rotation			
PZ3AG25C064TD	25	280	1" BSPP
PZ3AG30C064TD	30	280	1" BSPP
PZ3AG35C064TD	35	280	1" BSPP
PZ3AG40C064TD	40	250	1" BSPP
PZ3AG45C064TD	45	250	1" BSPP
PZ3AG55C065TD	55	230	1 1/4" Suction 1" BSPP Pressure
PZ3AG64C065TD	64	200	1 1/4" Suction 1" BSPP Pressure
PZ3AG80C067TD	80	190	1 1/2" Suction 1 1/4" BSPP Pressure

Cast Iron Covers and Special Bushings, Projected for Heavy Duty.

PZ3BG SAE B Front Pump

SAE B 2 Bolt Mount

BSPP Threaded Ports

7/8" Straight Keyed Shaft

Part Number	cc/rev	Max Working Pressure bar	Ports
RH Rotation			
PZ3BG25L364TD	25	280	1" BSPP
PZ3BG30L364TD	30	280	1" BSPP
PZ3BG35L364TD	35	280	1" BSPP
PZ3BG40L364TD	40	250	1" BSPP
PZ3BG45L364TD	45	250	1" BSPP
PZ3BG55L365TD	55	230	1 1/4" Suction 1" BSPP Pressure
PZ3BG64L365TD	64	200	1 1/4" Suction 1" BSPP Pressure
PZ3BG80L367TD	80	190	1 1/2" Suction 1 1/4" BSPP Pressure

Cast Iron Covers and Special Bushings, Projected for Heavy Duty.

PZ3BG SAE B Front Pump

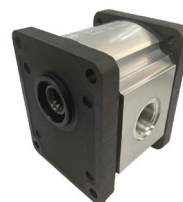
SAE B 2 Bolt Mount

BSPP Threaded Ports

7/8" 13T Splined Shaft

Part Number	cc/rev	Max Working Pressure bar	Ports
RH Rotation			
PZ3BG20B364TD	20	280	1" BSPP
PZ3BG25B364TD	25	280	1" BSPP
PZ3BG30B364TD	30	280	1" BSPP
PZ3BG35B364TD	35	280	1" BSPP
PZ3BG40B364TD	40	250	1" BSPP
PZ3BG45B364TD	45	250	1" BSPP
PZ3BG55B365TD	55	230	1 1/4" Suction 1" BSPP Pressure
PZ3BG64B365TD	64	200	1 1/4" Suction 1" BSPP Pressure
PZ3BG80B367TD	80	190	1 1/2" Suction 1 1/4" BSPP Pressure

Cast Iron Covers and Special Bushings, Projected for Heavy Duty.



Intermediate Pumps

Part Number	cc/rev	Ports	
RH Rotation			
PZ3AG250064ID	25	1" BSPP	
PZ3AG300064ID	30	1" BSPP	
PZ3AG350064ID	35	1" BSPP	
PZ3AG400064ID	40	1" BSPP	
PZ3AG450064ID	45	1" BSPP	
PZ3AG550065ID	55	1 1/4" BSPP	1" BSPP
PZ3AG640065ID	64	1 1/4" BSPP	1" BSPP
PZ3AG800065ID	80	1 1/2" BSPP	1 1/4" BSPP



Rear Pumps

Part Number	cc/rev	Ports	
RH Rotation			
PZ3AG250064PD	25	1" BSPP	
PZ3AG300064PD	30	1" BSPP	
PZ3AG350064PD	35	1" BSPP	
PZ3AG400064PD	40	1" BSPP	
PZ3AG450064PD	45	1" BSPP	
PZ3AG550065PD	55	1 1/4" BSPP	1" BSPP
PZ3AG640065PD	64	1 1/4" BSPP	1" BSPP
PZ3AG800065PD	80	1 1/2" BSPP	1 1/4" BSPP

Seal Kits

Part Number	Description
PZ3A-SK	Group 3 Body Seal Kit
PZ2A-SS	Group 3 Shaft Seal

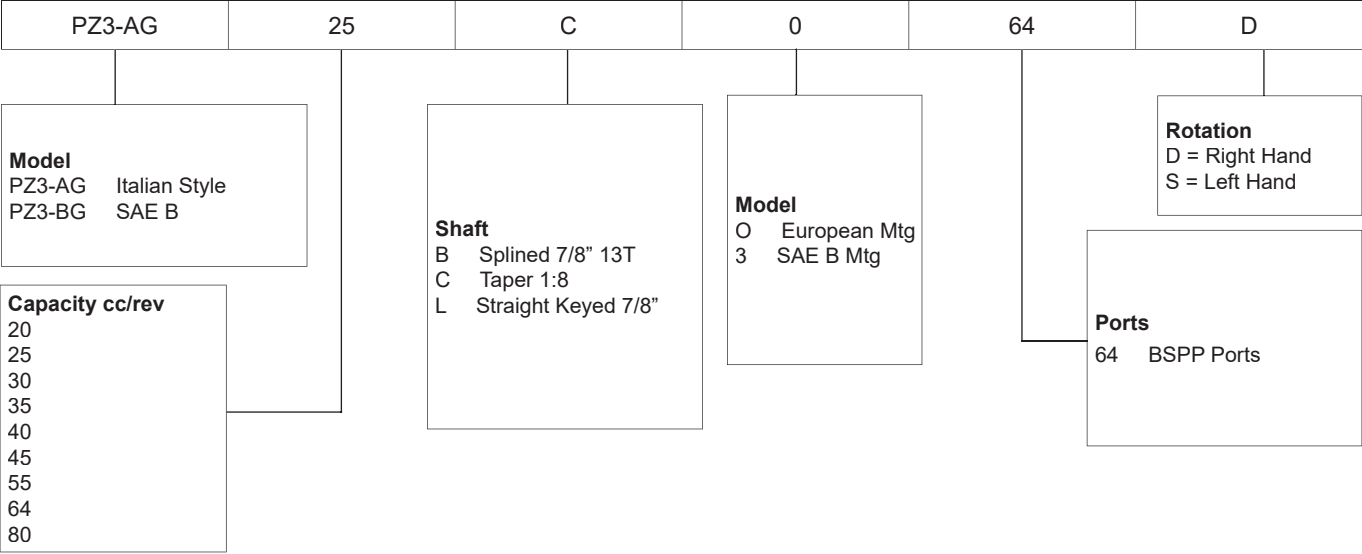
Assembly Kits

Part Number	Description		
K3000028	Group 3 Cast to Alloy	PZ3 Cast to Alloy	
K3000029	Group 3 to Group 1	PZ3 to PZ1 Alloy	
K3000030	Group 3 to Group 2	PZ3 to PZ2 Alloy	
K3000034	Group 3 to Group 3	PZ3 to PZ3 Alloy	

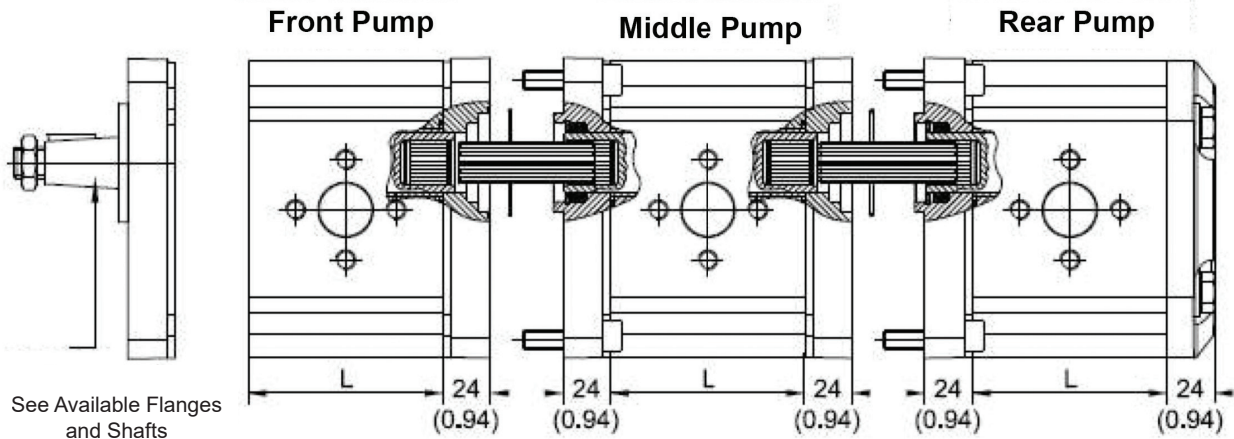
PZ3 Group 3 Gear Pump Specifications



PZ3 Model Identification Code



Type		20	25	30	35	40	45	55	64	80
Capacity	Cm ³	19.9	24.9	29.9	34.3	40.5	45.2	54.5	63.9	78.7
P1 Max Working Pressure	Bar	280	280	280	280	250	250	230	200	170
P2 Max Peak Pressure	Bar	310	310	310	310	280	280	250	220	190
Min Speed for P1 Pressure	Rpm	450	450	350	350	350	350	350	350	350
Max Speed	Rpm	3000	3000	3000	3000	2700	2700	2200	2000	1800
Nm		26.9	33.7	40.4	46.4	54.8	61.1	73.7	86.4	106.5
Kg		10.6	10.8	11	11.2	11.4	11.5	11.9	12.2	12.7
L	mm	77	80	83.2	86	90	93	99	105	114.6
Oil Viscosity @ 50°C	2.5 - 6.5°E									



Assembly Kits

Part Number	Description	Pump Type +	Pump Type
K1000000	Group 1 to Group 1	PZ1A 4, 6, 8, 11, 14, 17, 20, 25, 31	PZ1A 4, 6, 8, 11, 14, 17, 20, 25, 31
K2000000	Group 2 to Group 2	PZ2A 31, 25, 20, 17, 14, 11	PZ2A 31, 25, 20, 17, 14, 11
K2000001	Group 2 to Group 2	PZ2A 31, 25, 17, 14, 11	PZ2A 8, 6, 4
K2000002	Group 2 to Group 2	PZ2A 8, 6, 4	PZ2A 8, 6, 2
K2000003	Group 2 to Group 1	PZ2A 31, 25, 17, 14, 11	PZ1A 4, 6, 8, 11, 14, 17, 20, 25, 31
K2000004	Group 2 to Group 1	PZ2A 8, 6, 4	PZ1A 4, 6, 8, 11, 14, 17, 20, 25, 31
K3000000	Group 3 to Group 3	PW3 Cast	PW3
K3000001	Group 3 to Group 2	PW3 Cast	PZ2A 31, 25, 17, 14, 11
K3000002	Group 3 to Group 2	PW3 Cast	PZ2A 8, 6, 4

K3000028	Group 3 Cast to Alloy	PZ3 Cast to Alloy	
K3000029	Group 3 to Group 1	PZ3 to PZ1 Alloy	
K3000030	Group 3 to Group 2	PZ3 to PZ2 Alloy	
K3000034	Group 3 to Group 3	PZ3 to PZ3 Alloy	



Parts and Accessories

Part Number	Description
-------------	-------------

Port Adaptors

EGP-2	30mm PCD Port Adaptor 1/2" BSPP
EGP-4	40mm PCD Port Adaptor 3/4" BSPP
EGP-5	51mm PCD Port Adaptor 3/4" BSPP
EGP-7	56mm PCD Port Adaptor 3/4" BSPP
EGP-8	56mm PCD Port Adaptor 1" BSPP
EBP-2	35mm PCD Port Adaptor 1/2" BSPP
EBP-4	40mm PCD Port Adaptor 3/4" BSPP

Keys

PZ1A-C-KEY	Group 1 Key
PZ2A-C-KEY	Group 2 Key
PZ3-C-KEY	Group 3 Key

Seal Kits

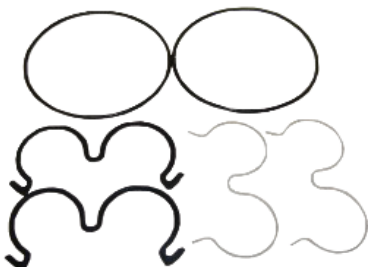
PZ1A-SK	Group 1 Seal Kit
PZ2A-SK	Group 2 Seal Kit
PZ3A-SK	Group 3 Seal Kit
PW3-SK	Group 3 Seal Kit
MZ2A-SK	Group 2 Motor Seal Kit
MW3-SK	Group 3 Motor Seal Kit
NF-SK	NF Series Pump Seal Kit

Shaft Seals

PZ1A-SS	Group 1 Shaft Seal
PZ2A-SS	Group 2 Shaft Seal
PZAA-I-SS	Group 2 Intermediate Shaft Seal
PZ3A-SS	Group 3 Shaft Seal
PZ3AI-SS	Group 3 Intermediate Shaft Seal
PW3-SS	Group 3 Shaft Seal
MZ2A-SS	Group 2 Motor Shaft Seal
MW3-SS	Group 3 Motor Shaft Seal

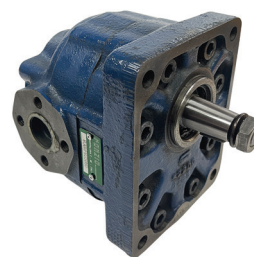
Rear Covers

PZ1A-RC	Group 1 Rear Cover with Seals
PZ2AG-RC	Group 2 Rear Cover



Group 3 Cast Iron

Flanged Ports
1:8 Taper Shaft



Part Number	cc/rev	Porting					
		Pressure			Suction		
		E	F	G	E	F	G
PW325DAC	24.9	40	20	M8	51	28	M10
PW335DAC	34.3	40	20	M8	51	28	M10
PW345DAC	45.2	40	20	M8	51	28	M10
PW355DAC	54.5	40	20	M8	51	28	M10
PW364DAC	63.9	51	28	M10	62	33	M12
PW380DAC	78.7	51	28	M10	62	33	M12

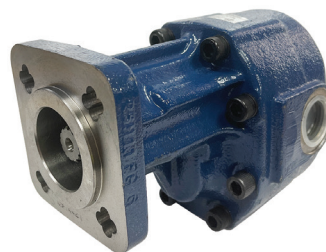
For Left Hand Rotation, Change D to S.

Specifications

Type		25	35	45	55	64	80
Capacity	cc/rev	24.9	34.3	45.2	54.5	63.9	78.7
Max. Working Pressure	bar	300	280	250	230	200	170
Peak Pressure	bar	250	330	300	270	240	210
Max Speed for P1 Pressure	r.p.m	3000	2500	2200	2000	2000	1800
Max. Speed Without Load	r.p.m	3500	3000	2800	2500	2500	2200
Min. Speed for P1 (unidirect)	r.p.m	450	350	350	300	250	200

NFA Chelsea Mount

13T 7/8" Splined Shaft
Optional Rear Suction Port LH



Part Number		cc/rev	Porting	
RH Rotation	Stamped		Pressure	Suction
NFA35DPHS	032NF035DOS	34.3	1 1/16 UNO	1 5/16 UNO
NFA45DPHS	032NF045DOS	45.2	1 1/16 UNO	1 5/8 UNO
NFA55DPHS	032NF055DOS	54.5	1 1/16 UNO	1 5/8 UNO
NFA64DPHS	032NF064DOS	63.9	1 5/16 UNO	1 5/8 UNO
NFA80DPHS	032NF080DOS	78.7	1 5/8 UNO	1 7/8 UNO



Cast Iron Pumps

SAE B Mount

13T 7/8" Splined Shaft

UNO Threaded Ports

Part Number		cc/rev	Porting	
RH Rotation	Stamped		Pressure	Suction
PW315SAEBDAS	030W0015BOD	15.6	7/8 UNO	1 1/16 UNO
PW325SAEBDAS	030W0025BOD	24.9	7/8 UNO	1 1/16 UNO
PW335SAEBDAS	030W0035BOD	34.3	1 1/16 UNO	1 5/16 UNO
PW345SAEBDAS	030W0045BOD	45.2	1 1/16 UNO	1 5/8 UNO
PW355SAEBDAS	030W0055BOD	54.5	1 1/16 UNO	1 5/8 UNO
PW364SAEBDAS	030W0064BOD	63.9	1 5/16 UNO	1 5/8 UNO
PW380SAEBDAS	030W0080BOD	78.7	1 5/8 UNO	1 5/8 UNO

Cast Iron Pumps

SAE B Mount

15T 1" Splined Shaft

UNO Threaded Ports

Part Number		cc/rev	Porting	
RH Rotation	Stamped		Pressure	Suction
PW315SAEBBDAS	030WLB15S374XDON	15.6	7/8 UNO	1 1/16 UNO
PW325SAEBBDAS	030WLB25S374XDON	24.9	7/8 UNO	1 1/16 UNO
PW335SAEBBDAS	030WLB35S374XDON	34.3	1 1/16 UNO	1 5/16 UNO
PW345SAEBBDAS	030WLB45S374XDON	45.2	1 1/16 UNO	1 5/8 UNO
PW355SAEBBDAS	030WLB55S374XDON	54.5	1 1/16 UNO	1 5/8 UNO
PW364SAEBBDAS	030WLB64S374XDON	63.9	1 5/16 UNO	1 5/8 UNO
PW380SAEBBDAS	030WLB80S374XDON	80	1 7/8 UNO	1 5/8 UNO

Specifications

Type		15	25	35	45	55	64	80
Capacity	cc/rev	15.6	24.9	34.3	45.2	54.5	63.9	78.7
Max. Working Pressure	bar	300	300	280	250	230	200	170
Peak Pressure	bar	350	350	330	300	270	240	210
Max. Speed for P1 Pressure	r.p.m	3000	3000	2500	2200	2000	2000	1800
Max. Speed Without Load	r.p.m	3500	3500	3000	2800	2500	2500	2200
Min. Speed for P1 (Unidirect)	r.p.m	450	450	350	350	300	250	200

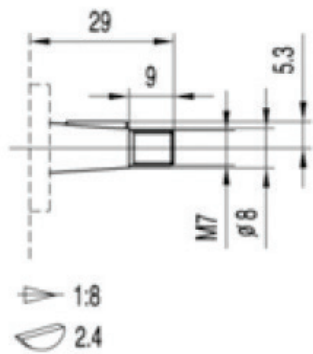
KAP Group 1

3/8" BSPP Threaded Ports

1:8 Taper Shaft



Part Number	Displacement cc/rev	Max Pressure bar			Max Speed rpm	Min Speed rpm
		P1	P2	P3		
KAP1E0D0.8Z1L2	0.8	200	225	250	6000	1000
KAP1E0D1.1Z1L2	1.1	200	225	250	6000	1000
KAP1E0D1.6Z1L2	1.6	200	225	250	6000	1000
KAP1E0D2.1Z1L2	2.1	200	225	250	6000	1000
KAP1E0D2.7Z1L2	2.7	200	225	250	6000	1000
KAP1E0D3.2Z1L2	3.2	200	225	250	5000	800
KAP1E0D3.7Z1L2	3.7	200	225	250	4500	800
KAP1E0D4.2Z1L2	4.2	200	225	250	4000	800
KAP1E0D4.8Z1L2	4.8	200	225	250	3500	800
KAP1E0D5.8Z5L2	5.8	160	180	200	3000	800
KAP1E0D7.0Z1L2	7.0	160	180	200	2500	800
KAP1E0D8.0Z1L2	8.0	160	180	200	2100	600



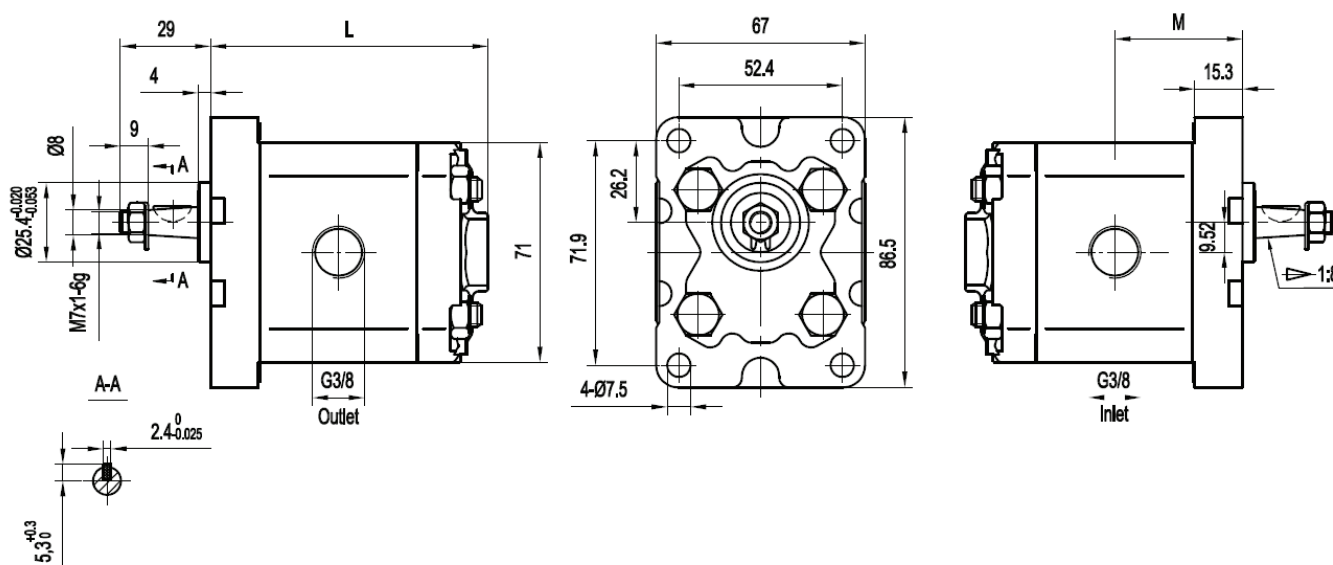
Z1

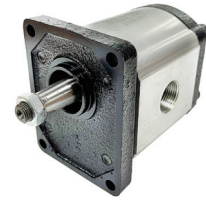
1:8 Taper Shaft

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Type	L (mm)	M (mm)
KAP1E0D0.8	77	33.8
KAP1E0D1.1	77.5	34
KAP1E0D1.6	79.5	35
KAP1E0D2.1	81.5	36
KAP1E0D2.7	83.5	37
KAP1E0D3.2	85.5	38
KAP1E0D3.7	39	87.5
KAP1E0D4.2	40	89.5
KAP1E0D4.8	41	91.5
KAP1E0D5.8	43	95.5
KAP1E0D7.0	45	99.5
KAP1E0D8.0	47	103.5



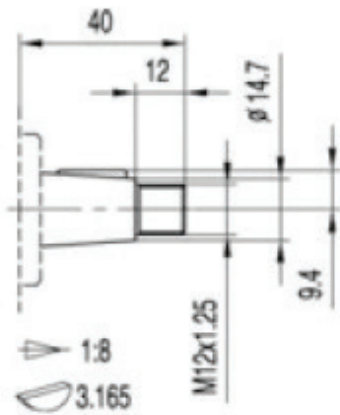


KGP2E2 Group 2

BSPP Threaded Ports

1:8 Taper Shaft

Part Number	Displacement cc/rev	Max Pressure bar			Max Speed rpm	Min Speed rpm
		P1	P2	P3		
KGP2E2D4Z5L4	4	200	225	250	3000	800
KGP2E2D6Z5L4	6	200	225	250	3000	800
KGP2E2D8Z5L4	8	200	225	250	3000	800
KGP2E2D10Z5L5	10	200	225	250	3000	600
KGP2E2D12Z5L5	12	200	225	250	3000	600
KGP2E2D14Z5L5	14	200	225	250	3000	600
KGP2E2D16Z5L5	16	200	225	250	3000	600
KGP2E2D18Z5L5	18	200	225	250	3000	600
KGP2E2D20Z5L5	20	200	225	250	3000	600
KGP2E2D22Z5L5	22	200	225	250	3000	600
KGP2E2D25Z5L5	25	200	225	250	3000	600
KGP2E2D28Z5L5	28	160	170	180	2500	500
KGP2E2D30Z5L5	30	150	160	170	2500	500

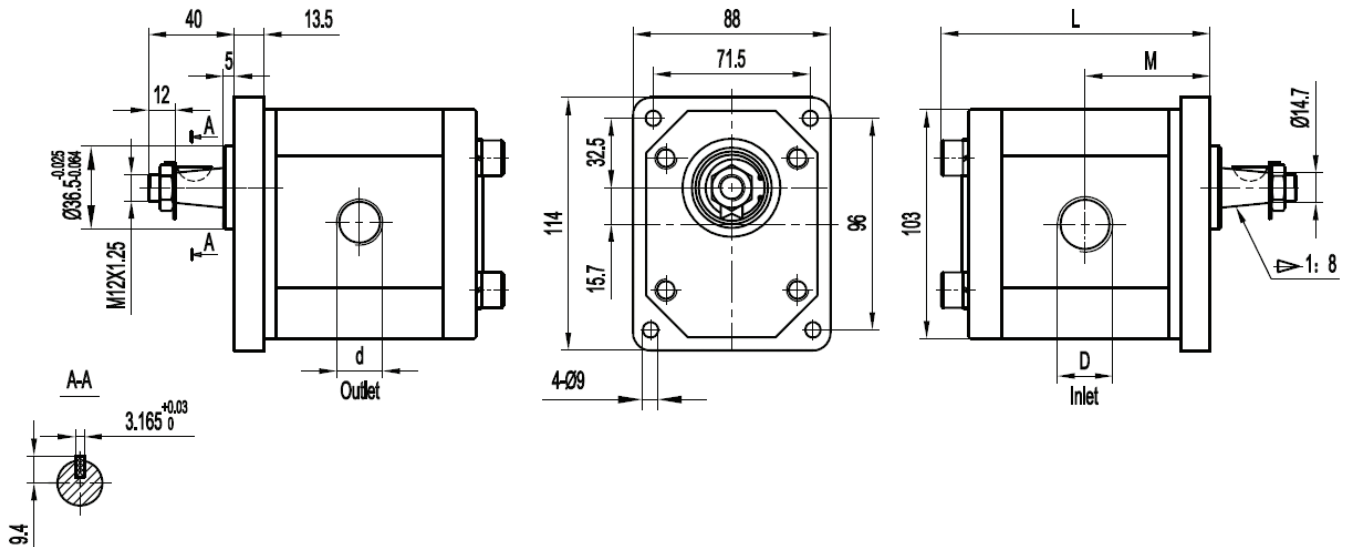


Z5

1:8 Taper Shaft

Group 2 Gear Pump Ordering Code

KG	P	2	E2	D	4	J5	L5
Series: KG = Front and end cover material is cast iron.	Pump	Group 2	Front Cover	Rotation: D - Clockwise S - Anti-Clockwise	Displacement cc/rev: 4 6 8 10 12 14 16 18 20 22 25 28 30	Shaft: J5 = 1:8 Taper	Ports: L4 = 1/2" BSPP L5 = Inlet 3/4" BSPP Outlet 1/2" BSPP L6 = Inlet 3/4" BSPP Outlet 3/4" BSPP



Type	M (mm)	L (mm)	B (mm)	D (mm)	b (mm)	d (mm)	C	c
KGP2E2-D-4	44.5	96.8	30	13	30	13	M6	M6
KGP2E2-D-6	46	100	30	13			M6	
KGP2E2-D-8	47.7	103.3	30	13			M6	
KGP2E2-D-10	49.3	106.6	40	20			M8	
KGP2E2-D-12	51	109.9	40	20			M8	
KGP2E2-D-14	52.6	113	40	20			M8	
KGP2E2-D-16	54.3	116.5	40	20			M8	
KGP2E2-D-18	55.9	119.7	40	20			M8	
KGP2E2-D-20	57.5	123	40	20			M8	
KGP2E2-D-22	59.2	126.4	40	20			M8	
KGP2E2-D-25	61.6	131	40	22			M8	
KGP2E2-D-28	64.1	136	40	22			M8	
KGP2E2-D-30	65.8	140	40	22			M8	

KGP2A2 Group 2

SAE A Mount

BSP Threaded Ports

5/8" Keyed Shaft



Part Number	Displacement cc/rev	Max Pressure bar			Max Speed rpm	Min Speed rpm
		P1	P2	P3		
KGP2A2D4P12L4	4	200	225	250	3000	800
KGP2A2D6P12L4	6	200	225	250	3000	800
KGP2A2D8P12L5	8	200	225	250	3000	800
KGP2A2D10P12L5	10	200	225	250	3000	600
KGP2A2D12P12L5	12	200	225	250	3000	600
KGP2A2D14P12L6	14	200	225	250	3000	600
KGP2A2D16P12L6	16	200	225	250	3000	600
KGP2A2D18P12L6	18	200	225	250	3000	600
KGP2A2D20P12L6	20	200	225	250	3000	600
KGP2A2D22P12L6	22	200	225	250	3000	600
KGP2A2D25P12L6	25	200	225	250	3000	600
KGP2A2D28P12L6	28	160	170	180	2500	500
KGP2A2D30P12L6	30	150	160	170	2500	500

KGP2A2 Group 2

SAE A Mount

BSP Threaded Ports

5/8" 9T Splined Shaft



Part Number	Displacement cc/rev	Max Pressure bar			Max Speed rpm	Min Speed rpm
		P1	P2	P3		
KGP2A2D4J5L4	4	200	225	250	3000	800
KGP2A2D6J5L4	6	200	225	250	3000	800
KGP2A2D8J5L5	8	200	225	250	3000	800
KGP2A2D10J5L5	10	200	225	250	3000	600
KGP2A2D12J5L5	12	200	225	250	3000	600
KGP2A2D14J5L6	14	200	225	250	3000	600
KGP2A2D16J5L6	16	200	225	250	3000	600
KGP2A2D18J5L6	18	200	225	250	3000	600
KGP2A2D20J5L6	20	200	225	250	3000	600
KGP2A2D22J5L6	22	200	225	250	3000	600
KGP2A2D25J5L6	25	200	225	250	3000	600
KGP2A2D28J5L6	28	160	170	180	2500	500
KGP2A2D30J5L6	30	150	160	170	2500	500

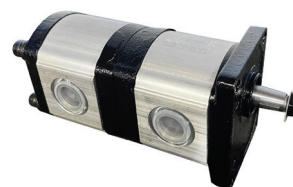
Technical drawing of a detail of a mechanical assembly, showing a cross-section of a component with dimensions: 6.4, 16, M6, Ø15.98, and 17.6.

Pumps, Gear Boxes and Supports | 45

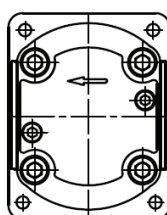
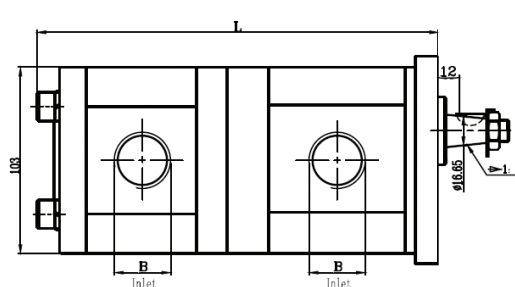
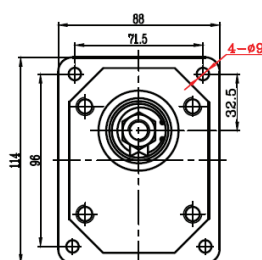
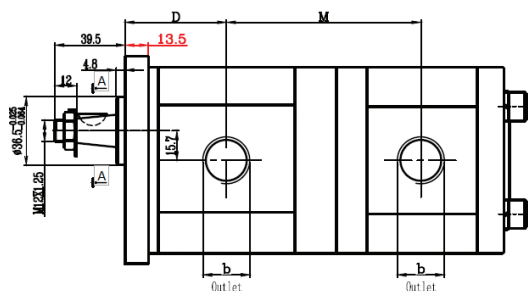
K22 Double Group 2

BSPP Threaded Ports

1:8 Taper Shaft



Part Number	cc/rev	Max Pressure bar			Max Speed rpm	Min Speed rpm	D	M	L	B	b
		P1	P2	P3							
K22C4.5X111FG/4.5X110G	4.5	200	225	250	3500	800	44.5	89.1	192	1/2	1/2
K22C6.3X111FG/6.3X110G	6.3	200	225	250	3500	800	46.1	92.3	199		
K22C8.2X111FG/8.2X110G	8.2	200	225	250	3000	600	47.7	95.5	205		
K22C10X111FG/10X110G	11.3	200	225	250	3000	500	49.3	98.8	212	3/4	
K22C14X111FG/14X110G	14	200	225	250	3000	500	52.6	105.3	225		
K22C16X111FG/16X110G	16	200	225	250	3000	500	54.3	108.7	231		
K22C18X111FG/18X110G	19	200	215	230	3000	500	55.9	111.9	238		
K22C22X111FG/22X110G	22	200	215	230	3000	400	59.2	118.6	251		
K22C25X111FG/25X110G	25	180	200	215	2500	400	61.6	123.4	261		



Group 2 Multiple Pump Ordering Code

K22	C4.5	X110G
Group K20 - Group 2 K22 - Group 2 + Group 2 K222 - Group 2 + Group 2 + Group 2	Capacity cc/rev 4.5 6.3 8.2 10 14 16 18 22 25	Type Front 111G - 1:8 Taper 167G - 5/8" 9T Splined 457G - 5/8" Straight Keyed Middle 156G - Tang Drive Rear 110G - Tang Drive

K20 Front Pump

BSPP Threaded Ports

1:8 Taper Shaft

Part Number	Displacement cc/rev	Max Pressure bar			Max Speed rpm	Min Speed rpm	M	L	D	d
		P1	P2	P3						
K20C4.5X111G	4.5cc	200	225	250	3500	800	44.5	91.1	1/2	1/2
K20C6.3X111G	6.3cc	200	225	250	3500	800	46.1	94.3		
K20C8.2X111G	8.2cc	200	225	250	3000	600	47.7	97.5		
K20C10X111G	10cc	200	225	250	3000	500	49.3	100.8	3/4	
K20C14X111G	14cc	200	225	250	3000	500	52.6	107.3		
K20C16X111G	16cc	200	225	250	3000	500	54.3	110.7		
K20C18X111G	18cc	200	215	230	3000	500	55.9	113.9		
K20C22X111G	22cc	200	215	230	3000	400	59.2	120.6		
K20C25X111G	25cc	180	200	215	2500	400	61.6	125.4		

K20 Front Pump

BSPP Threaded Ports

SAE A 2 Bolt Mount

5/8" 9T Splined Shaft

Part Number	Displacement cc/rev	Max Pressure bar			Max Speed rpm	Min Speed rpm	M	L	D	d
		P1	P2	P3						
K20C4.5X167G	4.5cc	200	225	250	3500	800	44.5	91.1	1/2	1/2
K20C6.3X167G	6.3cc	200	225	250	3500	800	46.1	94.3		
K20C8.2X167G	8.2cc	200	225	250	3000	600	47.7	97.5		
K20C10X167G	10cc	200	225	250	3000	500	49.3	100.8	3/4	
K20C14X167G	14cc	200	225	250	3000	500	52.6	107.3		
K20C16X167G	16cc	200	225	250	3000	500	54.3	110.7		
K20C18X167G	18cc	200	215	230	3000	500	55.9	113.9		
K20C22X167G	22cc	200	215	230	3000	400	59.2	120.6		
K20C25X167G	25cc	180	200	215	2500	400	61.6	125.4		

K20 Front Pump

BSPP Threaded Ports

SAE A 2 Bolt Mount

5/8" Straight Keyed Shaft

Part Number	Displacement cc/rev	Max Pressure bar			Max Speed rpm	Min Speed rpm	M	L	D	d
		P1	P2	P3						
K20C4.5X457G	4.5cc	200	225	250	3500	800	44.5	91.1	1/2	1/2
K20C6.3X457G	6.3cc	200	225	250	3500	800	46.1	94.3		
K20C8.2X457G	8.2cc	200	225	250	4000	600	47.7	97.5		
K20C10X457G	10cc	200	225	250	3000	500	49.3	100.8	3/4	
K20C14X457G	14cc	200	225	250	3000	500	52.6	107.3		
K20C16X457G	16cc	200	225	250	3000	500	54.3	110.7		
K20C18X457G	18cc	200	215	230	3000	500	55.9	113.9		
K20C22X457G	22cc	200	215	230	3000	400	59.2	120.6		
K20C25X457G	25cc	180	200	215	2500	400	61.6	125.4		

K20 Middle Pump

BSPP Threaded Ports

Tang Drive

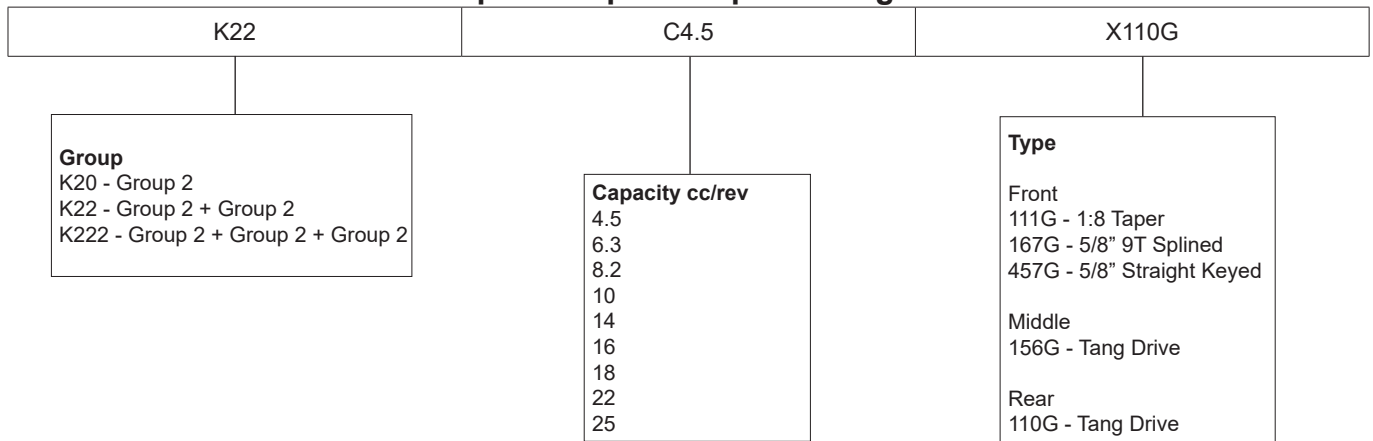
Part Number	Displacement cc/rev	Max Pressure bar			Max Speed rpm	Min Speed rpm	M	L	D	d
		P1	P2	P3						
K20C4.5X156G	4.5cc	200	215	230	4000	800	42.5	89.1	1/2	1/2
K20C6.3X156G	6.3cc	200	215	230	4000	800	44.1	92.3		
K20C8.2X156G	8.2cc	200	215	230	4000	600	45.7	95.5		
K20C10X156G	10cc	200	215	230	3000	500	47.3	98.8	3/4	
K20C14X156G	14cc	200	215	230	3000	500	50.6	105.3		
K20C16X156G	16cc	200	215	230	3000	500	52.3	108.7		
K20C18X156G	18cc	200	215	230	3000	500	53.9	111.9		
K20C22X156G	22cc	200	215	230	3000	400	57.2	118.6		
K20C25X156G	25cc	180	200	215	3000	400	59.6	123.4		

K20 Rear Pump

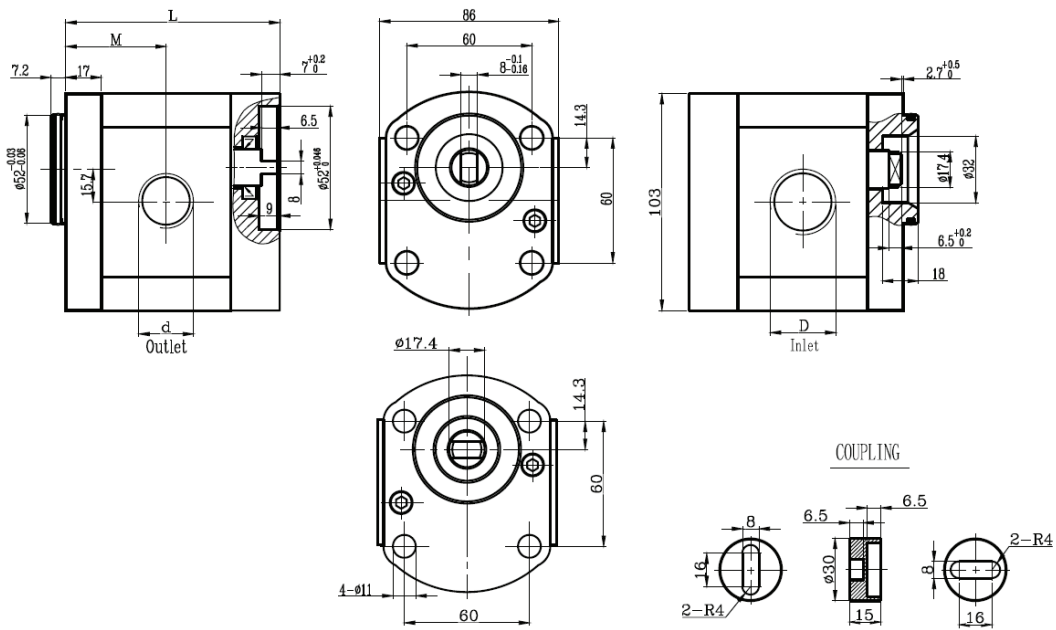
BSPP Threaded Ports

Part Number	Displacement cc/rev	Max Pressure bar			Max Speed rpm	Min Speed rpm	M	L	D	d
		P1	P2	P3						
K20C4.5X110G	4.5cc	200	225	250	3500	800	42.5	82.9	1/2	1/2
K20C6.3X110G	6.3cc	200	225	250	3500	800	44.1	86.1		
K20C8.2X110G	8.2cc	200	225	250	3000	600	45.7	89.3		
K20C10X110G	10cc	200	225	250	3000	500	47.3	92.6	3/4	
K20C14X110G	14cc	200	225	250	3000	500	50.6	99.1		
K20C16X110G	16cc	200	225	250	3000	500	52.3	102.5		
K20C18X110G	18cc	200	215	230	3000	500	53.9	105.7		
K20C22X110G	22cc	200	215	230	3000	400	57.2	112.4		
K20C25X110G	25cc	180	200	215	2500	400	59.6	117.2		

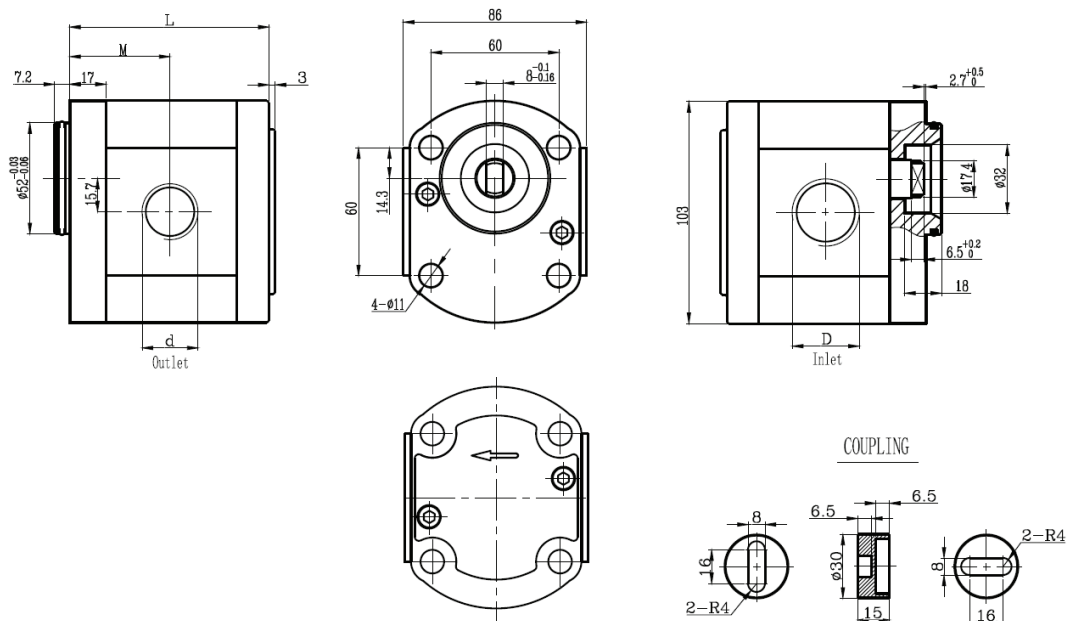
Group 2 Multiple Pump Ordering Code



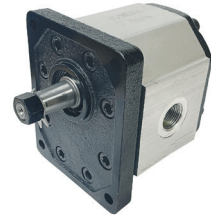
K20 Middle Pump 156G



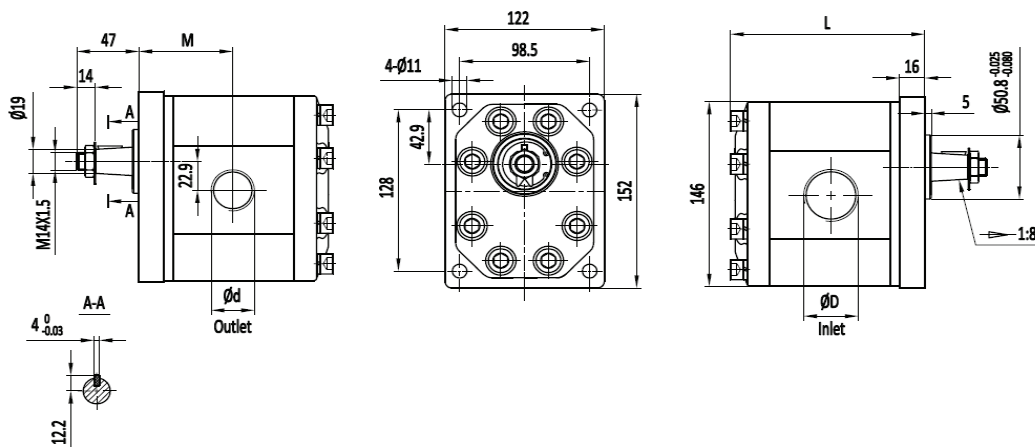
K20 Rear Pump 110G



1:8 Taper Shaft



Part Number	Displacement cc/rev	Max Pressure bar			Max Speed rpm	Min Speed rpm	M	L	D	d
		P1	P2	P3						
KGP3E8D20Z9L6	20	200	225	250	3500	600	63	129	3/4	3/4
KGP3E8D22Z9L8	22	200	225	250	3500	600	64	131		
KGP3E8D26Z9L8	26	200	225	250	3000	600	65	134	1	3/4
KGP3E8D33Z9L8	33	200	225	250	3000	500	68	140		
KGP3E8D39Z9L8	39	200	225	250	3000	500	72	147		
KGP3E8D46Z9L10	46	200	225	250	3000	500	75	153	1 1/4	1
KGP3E8D50Z9L10	50	200	225	250	3000	500	77	157		
KGP3E8D52Z9L10	52	200	225	250	3000	500	78	159		
KGP3E8D55Z9L10	55	200	225	250	2800	500	79	161		
KGP3E8D63Z9L10	63	200	225	250	2800	500	83	169		
KGP3E8D71Z9L12	71	180	200	220	2500	500	86	176	1 1/2	1 1/4



KG	P	3	E8	D	4	J5	L*
KG = Front and end cover material are cast iron	Pump	Group 3	Front Cover	Rotation D - Clockwise S - Anti-Clockwise	Size: 20 22 26 33 39 46 50 52 55 63 71	Shaft: Z9 - 1:8 Taper	Ports: L6 - 3/4" BSPP L8 - 1" Inlet, 3/4" Outlet L10 - 1 1/4" Inlet, 1" Outlet L12 - 1 1/2" Inlet, 1 1/4" Outlet

KGP3A8 Group 3

SAE B Mount

BSPP Threaded Ports

7/8" Keyed Shaft

Part Number	Displacement cc/rev	Max Pressure bar			Max Speed rpm	Min Speed rpm	M	L	D	d
		P1	P2	P3						
KGP3A8D20P29L6	20	200	225	250	3500	600	63	129	3/4	3/4
KGP3A8D26P29L8	26	200	225	250	3000	600	65	134	1	3/4
KGP3A8D33P29L8	33	200	225	250	3000	500	68	140		
KGP3A8D39P29L8	39	200	225	250	3000	500	72	147		
KGP3A8D46P29L10	46	200	225	250	3000	500	75	153	1 1/4	1
KGP3A8D50P29L10	50	200	225	250	3000	500	77	157		
KGP3A8D55P29L10	55	200	230	250	2800	400	79	161		
KGP3A8D63P29L10	63	200	230	250	2800	400	83	169		
KGP3A8D71P29L12	71	180	200	220	2500	400	86	176	1 1/2	1 1/4

KGP3A8 Group 3

SAE B Mount

BSPP Threaded Ports

7/8" 9T Splined Shaft

Part Number	Displacement cc/rev	Max Pressure Bar			Max Speed rpm	Min Speed rpm	M	L	D	d
		P1	P2	P3						
KGP3A8D20J17L6	20	200	225	250	3500	600	63	129	3/4	3/4
KGP3A8D22J17L6	22	200	225	250	3500	600	64	131		
KGP3A8D26J17L8	26	200	225	250	3000	600	65	134	1	3/4
KGP3A8D33J17L8	33	200	225	250	3000	500	68	140		
KGP3A8D39J17L8	39	200	225	250	3000	500	72	147		
KGP3A8D46J17L10	46	200	225	250	3000	500	75	153	1 1/4	1
KGP3A8D50J17L10	50	200	225	250	3000	500	77	157		
KGP3A8D55J17L10	55	200	225	250	2800	400	79	161		
KGP3A8D63J17L10	63	200	225	250	2800	400	83	169		
KGP3A8D71J17L12	71	180	200	220	2500	400	86	176	1 1/2	1 1/4

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PUMPS, GEAR BOXES & SUPPORTS

Technical drawing of the DP16/32-30°-13T valve showing three views: side, front, and end view.

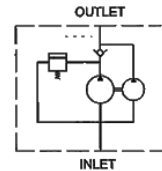
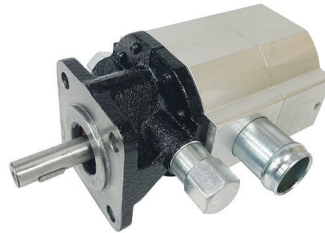
Side View (Left): Shows the side profile of the valve. Dimensions include 41, 32, 27, M, and $\varnothing d$. The outlet is labeled "Outlet".

Front View (Middle): Shows the front face of the valve. Dimensions include 174, 146, 156, 112, and 2- $\varnothing 14.3$.

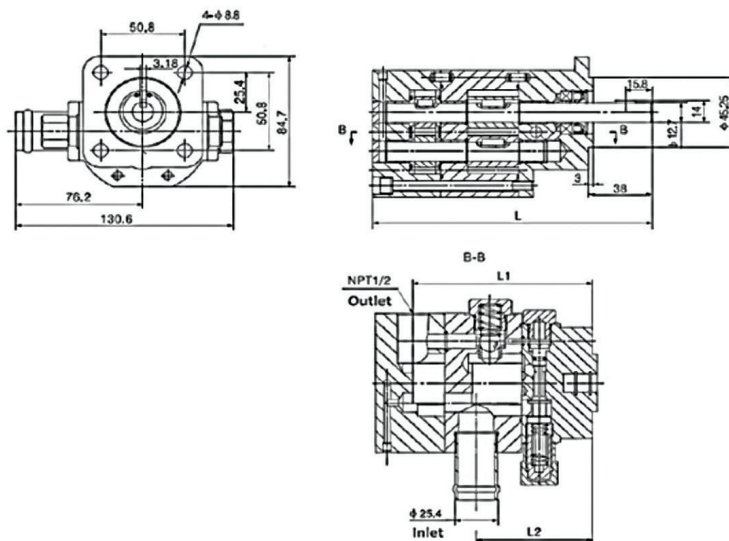
End View (Right): Shows the end face of the valve. Dimensions include L, 19, 9.5, 22.9, $\varnothing D$, and $\varnothing 101.6^{+0}_{-0.05}$. The inlet is labeled "Inlet".

KBNA Hi Lo Gear Pumps

To suit Log Splitters and Presses

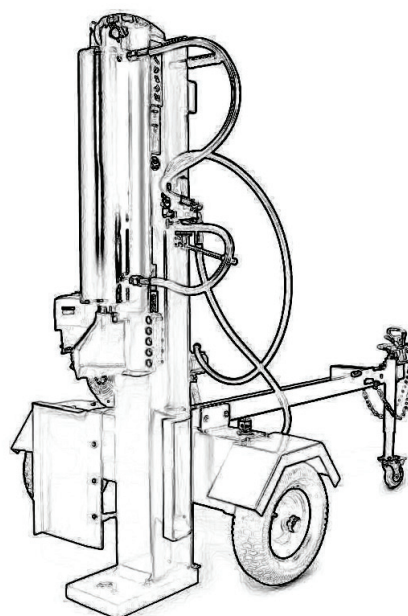


Part Number	Horsepower	Displacement		Max Pressure	Unloading Pressure Range	Speed	Rotating Direction
		Front	Rear				
KBNA-8.8-3.6	5 HP	8.8cc	3.6cc	210 bar	45 bar	3600 rpm	CW
KBNA-13-4.3	10 HP	13cc	4.2cc				



Dimensions

Part Number	L1 (mm)	L2 (mm)	L (mm)
KBNA-8.8/3.6	107.6	69.6	167.9
KBNA-13/4.3	122.1	84.1	184.7



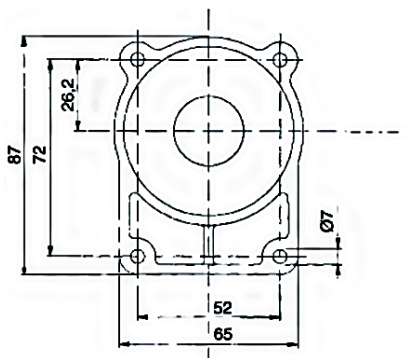


To suit Group 1, Group 2, Group 3 Pumps and Motors

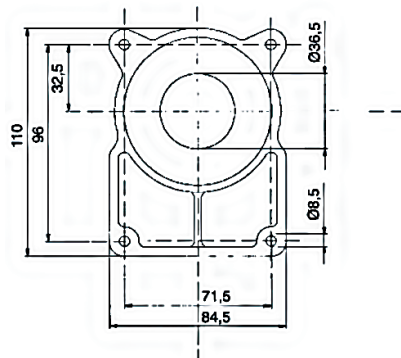


Part Number	Description	Pump Shaft (Input)	Support Shaft (Output)
SP-U1P	Bearing Support	Taper 1:8 Group 1	18mm Str Keyed 6mm Key
SP-R2	Bearing Support	Taper 1:8 Group 2	22mm Str Keyed 6mm Key
SP-2-C	Bearing Support	Taper 1:8 Group 2	Taper 1:8 Group 2, 4mm Key
SP-3U	Bearing Support	Taper 1:8 Group 3	24mm Str Keyed 8mm Key
KS25402	Bearing Support	Taper 1:8 Group 2	Taper 1:8 Group 2
KS25602	Bearing Support	Taper 1:8 Group 2	18mm Str Keyed 6mm Key Grp 2 Mount
KS25603	Bearing Support	Taper 1:8 Group 2	22mm Str Keyed 6mm Key Grp 2 Mount

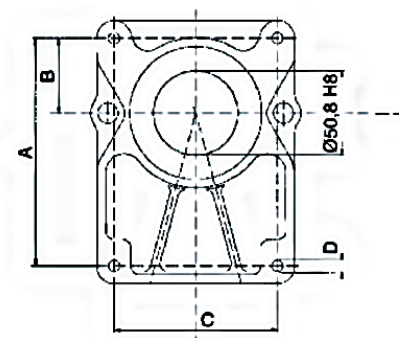
Order Adaptor Coupling Separately



Group 1



Group 2



Group 3

A	B	C	D
128	42	98.5	11

Half Coupling Adaptor

Part Number	Description	Pump Shaft (Input)	Major Shaft Diameter
B-U1P	Splined Adaptor for SP-U1P	Taper 1:8 Group 1	9.7mm
B-R2CA	Splined Adaptor for SP-R2	Taper 1:8 Group 2 (3.2mm Key)	17.2mm
B-R2U	Splined Adaptor for SP-R2	Taper 1:8 Group 2	17.2mm
B-2U use KM10005	Splined Adaptor for SP-2-C	Taper 1:8 Group 2	17.2mm
B-3U	Splined Adaptor for SP-3U	Taper 1:8 Group 3	22.2mm
KM10007	Splined Adaptor for KM25603	Taper 1:8 Group 2	17.2mm

10 KW

Aluminium Gear Boxes

Male Shaft



Female Shaft



Female Shaft with Locking Mechanism



600 Series Speed Increaser 3:1 10 KW

Part Number	Input Type	Pump Mount
KM6001-4A	Male 6T 1 3/8"	Group 2
KM6002-4A	Female 6T 1 3/8"	Group 2
KM6004-4A	Female 6T + Lock 1 3/8"	Group 2
KM6001-4AS	Male 6T 1 3/8"	SAE A
KM6002-4AS	Female 6T 1 3/8"	SAE A
KM6004-4AS	Female 6T + Lock 1 3/8"	SAE A

600 Series Specifications

Input Nm	Output Nm	Input rpm	Output rpm	Power KW	Kgs
180	55	540	1620	10	5.8

20 KW

Male Shaft



Female Shaft



Female Shaft with Locking Mechanism



700 Series Speed Increaser 3:1 20 KW

Part Number	Input Type	Pump Mount
KM7001-4A	Male 6T 1 3/8"	Group 2 & Group 3
KM7002-4A	Female 6T 1 3/8"	Group 3
KM7004-4A	Female 6T + Lock 1 3/8"	Group 2
KM7001-4AS	Male 6T 1 3/8"	SAE A
KM7002-4AS	Female 6T 1 3/8"	SAE A
KM7004-4AS	Female 6T + Lock 1 3/8"	SAE A
KM7001-4AT	Male 6T 1 3/8"	SAE B
KM7002-4AT	Female 6T 1 3/8"	SAE B
KM7004-4AT	Female 6T + Lock 1 3/8"	SAE B

700 Series Specifications

Input Nm	Output Nm	Input rpm	Output rpm	Power KW	Kgs
490	160	540	1620	20	9.7

37 KW

Cast Iron Gear Boxes Heavy Duty

Male Shaft



Female Shaft



Female Shaft with Locking Mechanism

Cast Iron 700 Series Speed Increaser 3:1 **37KW**

Part Number	Input Type	Pump Mount
KMT7001-4A	Male 1 3/8"	Group 2/3
KMT7002-4A	Female 1 3/8"	
KMT7004-4A	Female 6T + Lock 1 3/8"	

Cast Iron 700 Series Specifications

Input Nm	Output Nm	Input rpm	Output rpm	Power KW	Kgs
660	220	540	1620	37	16

Flanges

	Part Number	Description
	KM60100	KM Gear Box to SAE A 2 Bolt Mount Pump
	KM96101	KM Gear Box to SAE B 2 Bolt Mount Pump

Couplings - Order Separately from Gear Boxes

	Part Number	Description
	KM10005	KM600 to Grp 2 1:8 Taper Pump
	KM10007	KM25603 Support to Grp 2 1:8 Taper Pump
	KM10012	KM700 to Grp 2 1:8 Taper
	KM10014	KM700 to Grp 3 1:8 Taper Pump
	KM15002	KM700 to SAE B 7/8" Str Keyed Pump
	KM35505	KM700 to SAE B 13T Splined Pump
	KM35517	KM600 to SAE A 9T Splined Pump

SAE 80/90 Oil Type Recommended



Hand Pump - No Tank

Part Number	Description	Displacement CM3/Cycle	Max Pressure bar
HP1-20	Hand Pump - No Tank	20 CC	350
HP1-50	Hand Pump - No Tank	45 CC	260

Hand Pump Single & Double Acting No Tank

Part Number	Description	Displacement CM3/Cycle	Max Pressure bar
HPT-12	Single Acting - No Tank	12 CC	380
HPT-25	Single Acting - No Tank	25 CC	350
HPT-45	Single Acting - No Tank	45 CC	280
HPTD-12	Double Acting - No Tank	12 CC	380
HPTD-25	Double Acting - No Tank	25 CC	350
HPTD-45	Double Acting - No Tank	45 CC	280



Single Acting with 2 Litre Tank & Lever

Part Number	Description	Displacement CM3/Cycle	Max Pressure bar
HPT1-2-1	Single Acting - 2L Tank	12	380
HPT2-2-1	Single Acting - 2L Tank	25	350
HPT3-2-1	Single Acting - 2L Tank	45	280

Double Acting with 2 Litre Tank & Lever

Part Number	Description	Displacement CM3/Cycle	Max Pressure bar
HPTD1-2-1	Double Acting - 2L Tank	12	380
HPTD2-2-1	Double Acting - 2L Tank	25	350
HPTD3-2-1	Double Acting - 2L Tank	45	280

Optional Tanks

Part Number	Description
HP-2	2 Litre
HP-3	3 Litre
HP-5	5 Litre
HP-7	7 Litre
HP-10	10 Litre

Handle

HP-Lever	Handle Round
----------	--------------



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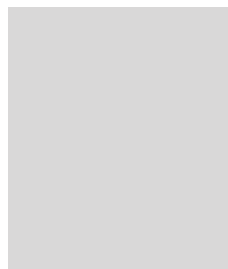
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MZ2AG Group 2, BSPP Threaded Ports, 1:8 Taper Shaft

Part Number	cc/rev	Porting		
		Pressure	Suction	Drain
MZ2AG06C034R	6.28	1/2" BSPP	1/2" BSPP	1/4" BSPP
MZ2AG08C034R	8.16	1/2" BSPP	1/2" BSPP	1/4" BSPP
MZ2AG11C034R	11.30	1/2" BSPP	1/2" BSPP	1/4" BSPP
MZ2AG14C041R	14.45	3/4" BSPP	3/4" BSPP	1/4" BSPP
MZ2AG17C041R	16.95	3/4" BSPP	3/4" BSPP	1/4" BSPP
MZ2AG20C041R	20.10	3/4" BSPP	3/4" BSPP	1/4" BSPP
MZ2AG25C041R	25.75	3/4" BSPP	3/4" BSPP	1/4" BSPP
MZ2AG31C041R	31.40	3/4" BSPP	3/4" BSPP	1/4" BSPP

CASE DRAIN MUST BE FITTED

Cast Iron Covers and Special Bushings, Heavy Duty



PZ2CG SAE A 2 Bolt Mount, BSPP Threaded Ports

Part Number		cc/rev	Threaded Porting		
5/8" Keyed Shaft	9T SAE A Splined Shaft		Pressure	Suction	Drain
PZ2CG06L4034R	PZ2CG06S4034R	6.28	1/2" BSPP	1/2" BSPP	7/16 UNF
PZ2CG08L4034R	PZ2CG08S4034R	8.16	1/2" BSPP	1/2" BSPP	7/16 UNF
PZ2CG11L4034R	PZ2CG11S4034R	11.30	1/2" BSPP	1/2" BSPP	7/16 UNF
PZ2CG14L4041R	PZ2CG14S4041R	14.45	3/4" BSPP	3/4" BSPP	7/16 UNF
PZ2CG17L4041R	PZ2CG17S4041R	16.95	3/4" BSPP	3/4" BSPP	7/16 UNF
PZ2CG20L4041R	PZ2CG20S4041R	20.10	3/4" BSPP	3/4" BSPP	7/16 UNF
PZ2CG25L4041R	PZ2CG25S4041R	25.75	3/4" BSPP	3/4" BSPP	7/16 UNF
PZ2CG31L4041R	PZ2CG31S4041R	31.40	3/4" BSPP	3/4" BSPP	7/16 UNF

CASE DRAIN MUST BE FITTED

Cast Iron Covers and Special Bushings, Heavy Duty



Seal Kits

Part Number	Description
MZ2A-SK	Group 2 Motor Seal Kit
MZ2A-SS	Group 2 Motor Shaft Seal
MW3-SK	Group 3 Motor Seal Kit
MW3-SS	Group 3 Motor Shaft Seal

Gerotor Motor - BMM

Rear Ports, 3/8" BSPP			
Part Number	cc/rev	L	L1
BMM8-M-A-IE-00	8cc	104	3.5
BMM12.5-M-A-IE-00	12.5cc	106	5.5
BMM20-M-A-IE-00	20cc	109	8.5
BMM32-M-A-IE-00	32cc	114	13.5
BMM40-M-A-IE-00	40cc	117.5	17
BMM50-M-A-IE-00	50cc	122	21.5
BMM-SK	BMM Seal Kit		
BMM-F-Flange	2 Bolt SAE AA Flange 63mm		



Side Ports, 3/8" BSPP			
Part Number	cc/rev	L	L1
BMM8-M-A-E-00	8cc	105	3.5
BMM12.5-M-A-E-00	12.5cc	107	5.5
BMM20-M-A-E-00	20cc	110	8.5
BMM32-M-A-E-00	32cc	115	13.5
BMM40-M-A-E-00	40cc	118.5	17
BMM50-M-A-E-00	50cc	123	21.5
BMM-SK	BMM Seal Kit		
BMM-F-Flange	2 Bolt SAE AA Flange 63mm		

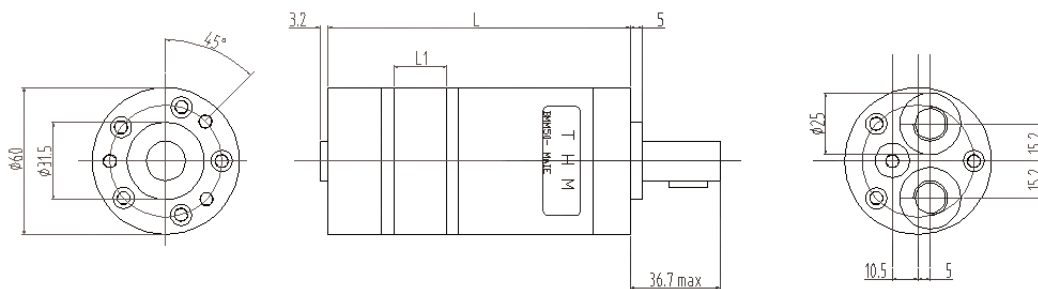


Ordering Code

Pos 1	2	3		4		5		6		7	
Code	Disp cc/ rev	Flange		Output Shaft		Ports		Rotation		Paint	
BMM	8	3 - M6 Circle Flange, pilot 31.5 x 5	M U F	ShaftØ16, parallel key 5 x5 x 16	A B C	3/8 BSPP Side	E	STD Opposite	None R	No Paint	00
	12.5										
	16	3 - 1/4 - 28UNF Circle Flange, pilot 31.5 x 5		ShaftØ15.875, parallel key 4.8 x 4.8 x 19.35		G3/8, G38	U				
	20					3/8 BSPP	IE				
	32					9/16 - 18UNF, 3/8 - 24UNF	IU				
	40										
	50	2 - 9mm flange, pilot 63 x 2		ShaftØ16.5, involute B17 x 14, DIN5482							

Specifications

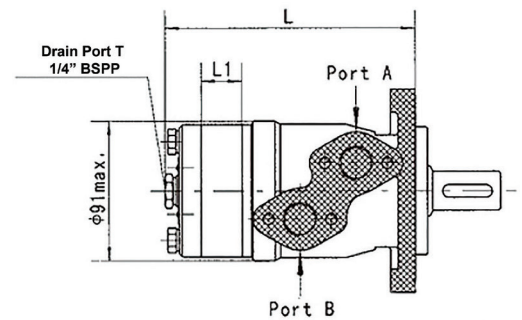
		BMM8	BMM12.5	BMM20	BMM32	BMM40	BMM50
Geometric Displacement (cm³/rev)		8.2	12.9	19.9	31.6	39.8	50.3
Max Speed (rpm)	Rated	1537	1256	814	513	452	358
	Cont	1950	1550	1000	630	500	400
	Int	2450	1940	1250	800	630	500
Max Torque (N-m)	Rated	8	13	19	31	37	33
	Cont	11	16	25	40	45	46
	Int	15	23	35	57	70	88
Max Pressure Drop (Mpa)	Rated	9	9	9	9	8.5	6
	Cont	10	10	10	10	9	7
	Int	14	14	14	14	14	14
	Peak	20	20	20	16	16	16
Max Flow (L/min)	Rated	14	18	18	18	20	20
	Cont	16	20	20	20	20	20
	Int	20	25	25	25	25	25
Weight (Kg)		1.9	2	2.1	2.2	2.3	2.4



Gerotor Motor - BMP Needle Bearings

Standard Model						
Part Number	Displacement	Mount	Shaft	Ports	L	L1
BMP36-2-C-D-N	36cc	SAE A 2 Bolt	1" Parallel Key	1/2" BSPP	136	7
BMP50-2-C-D-N	50cc				137	7
BMP80-2-C-D-N	80cc				140.5	10.5
BMP100-2-C-D-N	100cc				143	13
BMP125-2-C-D-N	125cc				146	16
BMP160-2-C-D-N	160cc				151	21
BMP200-2-C-D-N	200cc				157	26
BMP250-2-C-D-N	250cc				162	32
BMP315-2-C-D-N	315cc				172	42
BMP400-2-C-D-N	400cc				182	52

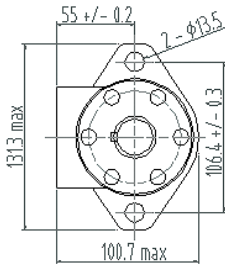
Options	
Mount Type	
2	Standard SAE A 2 Bolt
H5	4 Bolt Square Mount M10
4	SAE A 4 Bolt Magneto Mount
Shaft Type	
C	Ø 1" Keyed Shaft 25.4 (Key 6.35 x 6.35 x 31.75)
A	Ø 25mm Keyed Shaft (Key 8 x 7 x 32)
E	6B 1" Ø SAE 6B Splined Shaft
Seal Kit	
BMP-SK	Seal Kit



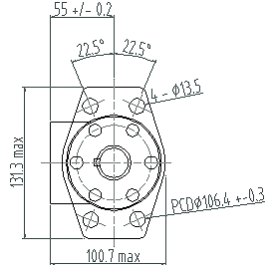
BMP Ordering Code

Series	Displacement cc/rev	-	Flange	-	Shaft	-	Ports	-	Bearing
BMP	36	-	2 Standard SAE A 2 Bolt	-	C 1" (25.4mm) Parallel Key 6.35 x 6.35 x 31.75	-	D 1/2" BSPP	-	N Radial Force Bearings
	50		4 SAE A 4 Bolt Magneto		A 25mm Metric Parallel Key 8 x 7 x 32				
	80	H5	4 Bolt Square M10		E SAE 6B Splined 1" (25.4mm)				
	100								
	125								
	160								
	200								
	250								
	315								
	400								

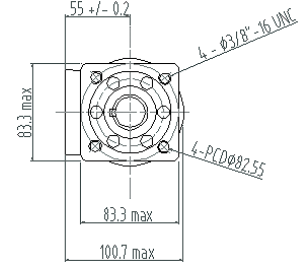




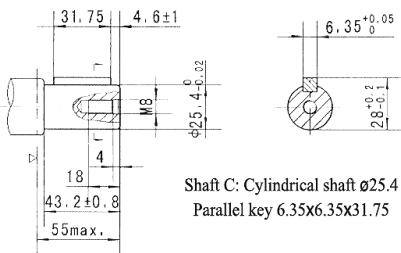
2 Standard SAE 2 Bolt Mount



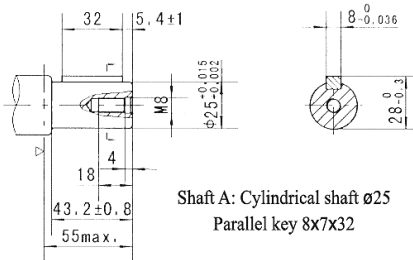
4 SAE A 4 Bolt Magneto Mount



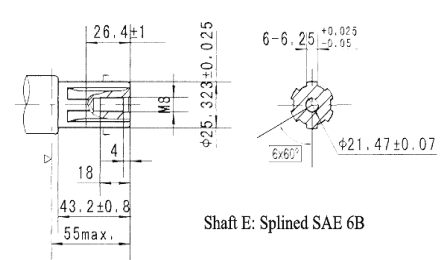
H5 4 Bolt Square Mount



C 1" Keyed Shaft



A 25mm Keyed Shaft



E 6B 1" Splined Shaft

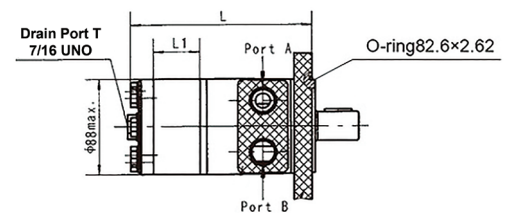
Specifications

		BMP36	BMP50	BMP80	BMP100	BMP125	BMP160	BMP200	BMP250	BMP315	BMP400
Displacement (cm ³ /rev)		36	51.7	77.7	96.2	117.9	155.5	189.9	231	311.7	386.2
Max Speed (rpm)	Rated	1050	850	650	520	390	310	260	200	156	130
	Cont	1078	879	740	589	475	370	296	237	189	149
	Int	1210	975	827	673	594	463	370	297	236	185
Max Torque (N-m)	Rated	55	81	129	161	202	204	259	325	345	435
	Cont	55	81	129	161	202	245	286	360	406	435
	Int	76	106	171	213	268	342	390	456	505	533
Max Output (Kw)	Rated	6	7	8.6	8.6	8	6.5	6.9	6.6	5.5	5.8
	Cont	6	7	9.1	9	9.1	8.7	8.1	8.2	7.2	6.1
	Int	8	8.9	11.8	11.9	11.8	11.9	10.9	10.1	8.6	7.2
Max Pressure Drop (Mpa)	Rated	12.5	12.5	12.5	12.5	12.5	10	10	10	8.5	8.5
	Cont	12.5	12.5	12.5	12.5	12.5	12.5	11	11	11	10
	Int	16.5	16.5	16.5	16.5	16.5	16.5	16.5	14	12.5	10.5
	Peak	16.5	16.5	16.5	16.5	16.5	16.5	16.5	14	12.5	10.5
Max Flow (L/Min)	Rated	40	45	55	55	55	55	55	55	55	55
	Cont	40	45	60	60	60	60	60	60	60	60
	Int	45	50	75	75	75	75	75	75	75	75
Weight (Kg)		5.6	5.6	5.7	5.9	6	6.2	6.4	6.6	6.9	7.4

Gerotor Motor - BMPH Needle Bearings

Standard Model						
Part Number	Displacement	Mount	Shaft	Ports	L	L1
BMPH50-H2-K-S-N	50	SAE A 2 Bolt	1" Keyed Shaft	7/8" O-Ring	141	7
BMPH80-H2-K-S-N	80				144.5	10.5
BMPH100-H2-K-S-N	100				147	13
BMPH125-H2-K-S-N	125				150	16
BMPH160-H2-K-S-N	180				155	21
BMPH200-H2-K-S-N	200				160	26
BMPH250-H2-K-S-N	250				166	32
BMPH315-H2-K-S-N	315				176	42
BMPH400-H2-K-S-N	400				186	52

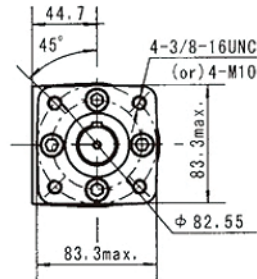
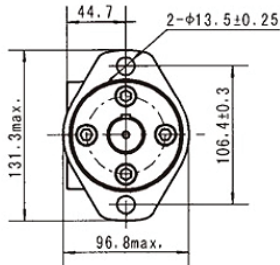
Options	
Mount Type	
H2	Standard SAE A 2 Bolt
H4	4 Bolt Square Mount 3/8" unc
Shaft Type	
K	Ø 1" Keyed Shaft 25.4 (Woodruff Key 6.35)
S	6B 1" Ø SAE 6B Splined Shaft
Seal Kit	
BMPH-SK	Seal Kit



BMPH Ordering Code

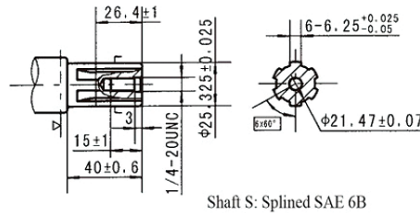
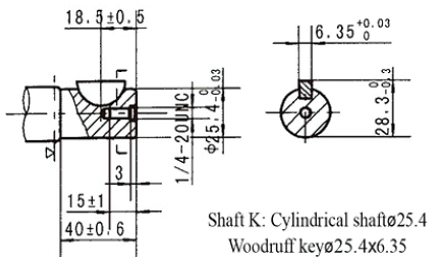
Series	Displacement cc/rev	-	Flange		-	Shaft		-	Ports		-	Bearing	
BMPH	50	-	H2	Standard SAE A 2 Bolt	-	K	1" (25.4mm) Woodruff Key 25.4 x 6.35	-	S	7/8" - 14 O-ring	-	N	Radial Force Bearings
	80		H4	4 Bolt Square Mount 3/8" unc		S	SAE 6B Splined 1" (25.4mm)						
	125												
	160												
	200												
	250												
	315												
	400												





H2 SAE A 2 Bolt Mount

H4 4 Bolt Square Mount



K 1" Keyed Shaft

S 6B 1" Splined Shaft

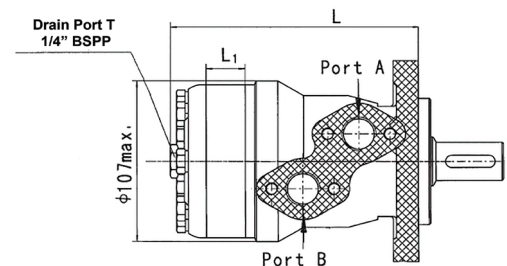
Specifications

		BMP36	BMP50	BMP80	BMP100	BMP125	BMP160	BMP200	BMP250	BMP315	BMP400
Displacement (cm ³ /rev)		36	51.7	77.7	96.2	117.9	155.5	189.9	231	311.7	386.2
Max Speed (rpm)	Rated	1050	850	650	520	390	310	260	200	156	130
	Cont	1078	879	740	589	475	370	296	237	189	149
	Int	1210	975	827	673	594	463	370	297	236	185
Max Torque (N-m)	Rated	55	81	129	161	202	204	259	325	345	435
	Cont	55	81	129	161	202	245	286	360	406	435
	Int	76	106	171	213	268	342	390	456	505	533
Max Output (Kw)	Rated	6	7	8.6	8.6	8	6.5	6.9	6.6	5.5	5.8
	Cont	6	7	9.1	9	9.1	8.7	8.1	8.2	7.2	6.1
	Int	8	8.9	11.8	11.9	11.8	11.9	10.9	10.1	8.6	7.2
Max Pressure Drop (Mpa)	Rated	12.5	12.5	12.5	12.5	12.5	10	10	10	8.5	8.5
	Cont	12.5	12.5	12.5	12.5	12.5	12.5	11	11	11	10
	Int	16.5	16.5	16.5	16.5	16.5	16.5	16.5	14	12.5	10.5
	Peak	16.5	16.5	16.5	16.5	16.5	16.5	16.5	14	12.5	10.5
Max Flow (L/Min)	Rated	40	45	55	55	55	55	55	55	55	55
	Cont	40	45	60	60	60	60	60	60	60	60
	Int	45	50	75	75	75	75	75	75	75	75
Weight (Kg)		5.6	5.6	5.7	5.9	6	6.2	6.4	6.6	6.9	7.4

Geroler Motor - BMR Needle Bearings

Standard Model						
BMR***-2-C-D-N	Displacement	Mount	Shaft	Ports	L	L1
BMR36-2-C-D-N	36	SAE A 2 Bolt	1" Keyed Shaft	1/2" BSPP	136	7
BMR50-2-C-D-N	50				140	10
BMR80-2-C-D-N	80				146	16
BMR100-2-C-D-N	100				150	20
BMR125-2-C-D-N	125				155	25
BMR160-2-C-D-N	160				161.5	31.5
BMR200-2-C-D-N	200				170	40
BMR250-2-C-D-N	250				180	50
BMR315-2-C-D-N	315				192	62
BMR400-2-C-D-N	400				204	74

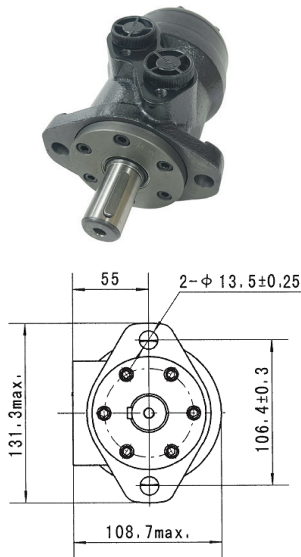
Options	
Mount Type	
2	Standard SAE A 2 Bolt
H5	4 Bolt Square Mount M10
4	4 Bolt Magneto Mount
Shaft Type	
C	Ø 1" Keyed Shaft 25.4 (Key 6.35 x 6.35 x 31.75)
A	Ø 25mm Keyed Shaft (Key 8 x 7 x 32)
E	6B 1"Ø SAE 6B Splined Shaft
Seal Kit	
BMR-SK	Seal Kit



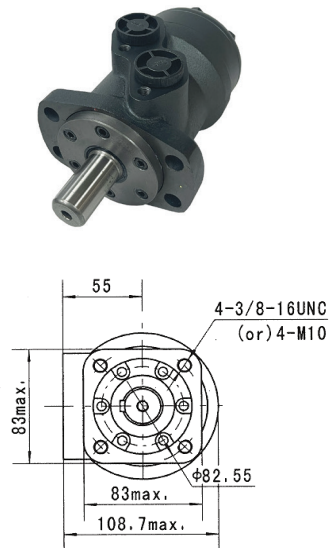
BMR Ordering Code

Series	Displacement cc/rev	-	Flange	-	Shaft	-	Ports	-	Bearing
BMR	36	-	2 Standard SAE A 2 Bolt	-	C Ø 1" Keyed Shaft 25.4 (Key 6.35x6.35x31.75)	-	D 1/2" BSPP	-	N Radial Force Bearings
	50		H5 4 Bolt Square Mount M10		A Ø 25mm Keyed Shaft (Key 8x7x32)				
	80		4 4 Bolt Magneto Mount		E 6B 1"Ø SAE 6B Splined Shaft				
	100								
	125								
	160								
	200								
	250								
	315								
	400								

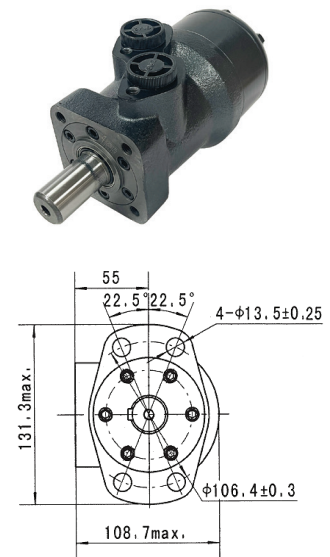




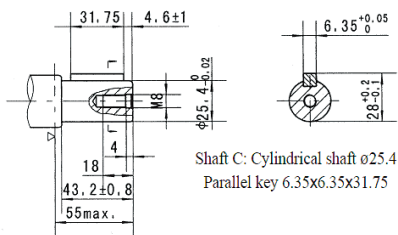
2 Standard SAE 2 Bolt Mount



H5 4 Bolt Square Mount M10

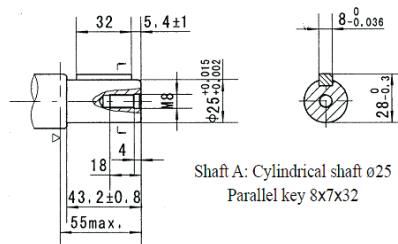


4 4 Bolt Magneto Mount



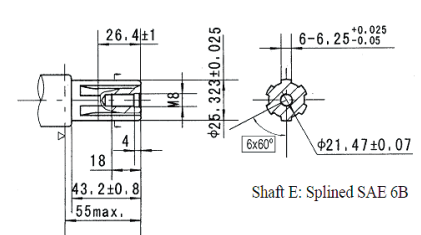
Shaft C: Cylindrical shaft ø25.4
Parallel key 6.35x6.35x31.75

C 1" Keyed Shaft



Shaft A: Cylindrical shaft ø25
Parallel key 8x7x32

A 25mm Keyed Shaft



Shaft E: Splined SAE 6B

E 6B 1" Splined Shaft

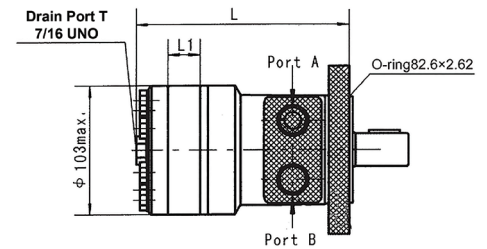
Specifications

		BMR50	BMR80	BMR100	BMR125	BMR160	BMR200	BMR250	BMR315	BMR400
Geometric Displacement (cm ³ /rev)		51.3	80.6	100.8	124.9	157.2	199.2	252	314.5	370
Max Speed (rpm)	Rated	755	750	600	475	375	300	240	190	160
	Cont	970	940	750	600	470	375	300	240	200
Max Torque (N-m)	Rated	100	160	200	250	320	330	352	360	420
	Cont	100	190	240	292	363	358	352	360	420
	Int	126	220	280	340	430	448	470	470	548
Max Output (Kw)	Rated	7.7	12.3	12.3	12	12.3	10	9	7	6.5
	Cont	7.7	15	15	14	14	11	9	7	6.6
	Int	9.7	17	17	16	16	14	12	9	12
Max Pressure Drop (Mpa)	Rated	14	14	14	14	14	12	11	8.5	8.5
	Cont	14	17.5	17.5	17.5	16.5	13	11	8.5	8.5
	Int	17.5	20	20	20	20	17.5	14	11.5	11.5
Max Flow (L/min)	Cont	40	60	60	60	60	60	60	60	60
	Int	50	75	75	75	75	75	75	75	75
Weight (Kg)		6.7	6.9	6.9	7.2	7.5	8.0	8.5	9	9.3

Geroler Motor - BMRS Needle Bearings

Standard Model						
Part Number	Displacement	Mount	Shaft	Ports	L	L1
BMRS50-H2-K-S-N	50	SAE A 2 Bolt	1" Keyed Shaft	7/8" O-Ring	144	10
BMRS80-H2-K-S-N	80				150	16
BMRS100-H2-K-S-N	100				154	20
BMRS125-H2-K-S-N	125				159	25
BMRS160-H2-K-S-N	160				165	31.5
BMRS200-H2-K-S-N	200				174	40
BMRS250-H2-K-S-N	250				184	50
BMRS315-H2-K-S-N	315				196	62
BMRS400-H2-K-S-N	400				208	74

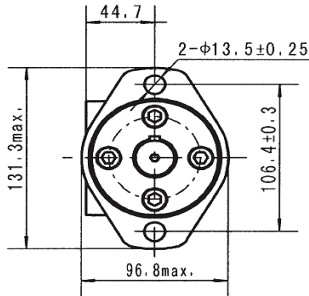
Options	
Mount Type	
H2	Standard SAE A 2 Bolt
H4	4 Bolt Square Mount M10
Shaft Type	
K	Ø 1" Keyed Shaft 25.4 (Woodruff Key 6.35)
S	6B 1" Ø SAE 6B Splined Shaft
Seal Kit	
BMRS-SK	Seal Kit



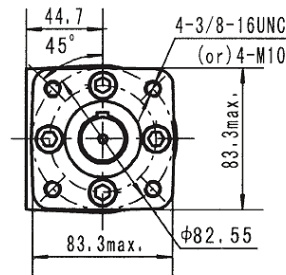
BMRS Ordering Code

Series	Displacement cc/rev	-	Flange		-	Shaft		-	Ports		-	Bearing	
BMRS	50	-	H2	Standard SAE A 2 Bolt	-	K	Ø 1" Keyed Shaft 25.4 (Woodruff Key 6.35)	-	S	7/8" - 14 O-ring	-	N	Radial Force Bearings
	80		H4	4 Bolt Square Mount M10		S	6B 1"Ø SAE 6B Splined Shaft						
	125												
	160												
	200												
	250												
	315												
	400												

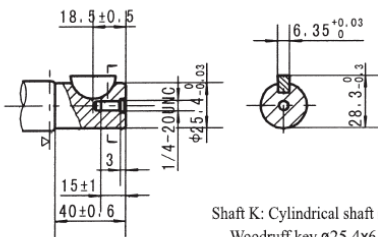




H2 SAE A 2 Bolt Mount

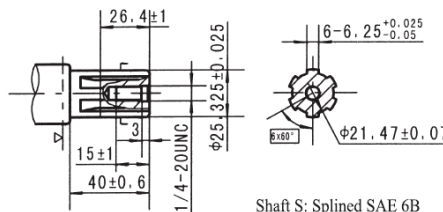


H4 4 Bolt Square Mount



Shaft K: Cylindrical shaft $\phi 25.4$
Woodruff key $\phi 25.4 \times 6.35$

K SAE A 2 Bolt



Shaft S: Splined SAE 6B

S 6B 1" Splined Shaft

Specifications

		BMR50	BMR80	BMR100	BMR125	BMR160	BMR200	BMR250	BMR315	BMR400
Geometric Displacement (cm ³ /rev)		51.3	80.6	100.8	124.9	157.2	199.2	252	314.5	370
Max Speed (rpm)	Rated	755	750	600	475	375	300	240	190	160
	Cont	970	940	750	600	470	375	300	240	200
Max Torque (N-m)	Rated	100	160	200	250	320	330	352	360	420
	Cont	100	190	240	292	363	358	352	360	420
	Int	126	220	280	340	430	448	470	470	548
Max Output (Kw)	Rated	7.7	12.3	12.3	12	12.3	10	9	7	6.5
	Cont	7.7	15	15	14	14	11	9	7	6.6
	Int	9.7	17	17	16	16	14	12	9	12
Max Pressure Drop (Mpa)	Rated	14	14	14	14	14	12	11	8.5	8.5
	Cont	14	17.5	17.5	17.5	16.5	13	11	8.5	8.5
	Int	17.5	20	20	20	20	17.5	14	11.5	11.5
Max Flow (L/min)	Cont	40	60	60	60	60	60	60	60	60
	Int	50	75	75	75	75	75	75	75	75
Weight (Kg)		6.7	6.9	6.9	7.2	7.5	8.0	8.5	9	9.3

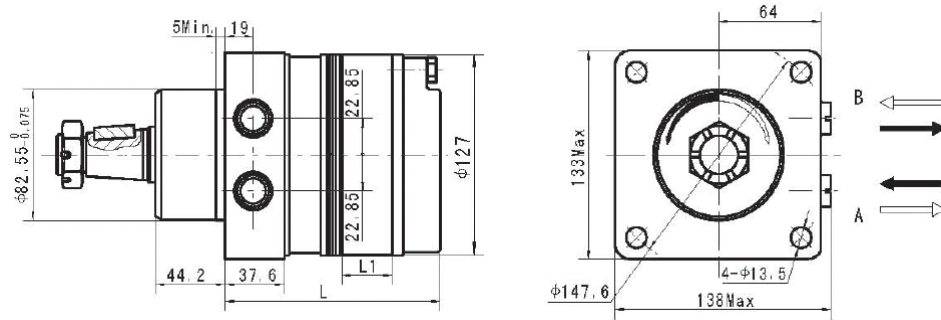
Geroler Motor - BMER

Standard Model						
Part Number	Displacement	Mount	Shaft	Ports	L	L1
BMER-2-125-WS-T4	125	Wheel	1:8 Taper	7/8 UNO	119	10.2
BMER-2-160-WS-T4	160				122	13.5
BMER-2-200-WS-T4	200				125.5	17
BMER-2-230-WS-T4	230				128	19.5
BMER-2-250-WS-T4	250				130.5	22
BMER-2-300-WS-T4	300				134.5	25.4
BMER-2-350-WS-T4	350				138	29.5
BMER-2-375-WS-T4	375				140.5	31.8
BMER-2-475-WS-T4	475				148	39.4
BMER-2-540-WS-T4	540				156	47.3
BMER-2-750-WS-T4	750				176	63.5

Options	
Mount Type	
WS	Wheel Mount
Shaft Type	
T4	Parallel Key
Seal Kit	
BMER-SK	Seal Kit

BMER Ordering Code

Series	Displacement cc/rev	-	Flange		-	Shaft		-	Ports	
BMER-2	125		WS	Wheel Mount		T4	Ø31.75 Cone Shaft, Parallel Key			7/8 14 Oring
	160									
	200									
	230									
	250									
	300									
	350									
	375									
	475									
	540									
	750									



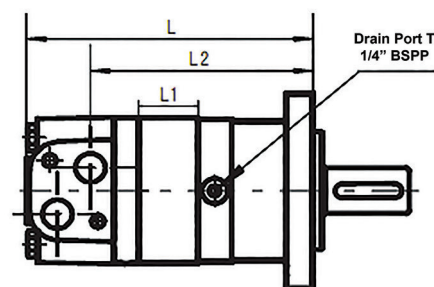
Specifications

		125	160	200	230	250	300	350	375	475	540	750
Geometric Displacement (cm ³ /rev)		118	156	196	228	257	296	345	371	462	540	745
Max Speed (rpm)	cont.	360	375	330	290	290	250	220	200	160	140	100
	int.	490	470	425	365	350	315	270	240	195	170	120
Max Torque (N-m)	cont.	325	450	530	625	700	810	905	990	1085	980	1050
	int.	380	525	600	710	790	930	1035	1140	1180	1240	1180
	peak.	450	590	750	870	980	1120	1285	1380	1260	1380	1370
Max Output (Kw)	cont.	12.0	15.0	15.5	16.0	17.5	18.0	17.5	16.5	14.5	11.5	8.0
	int.	14.0	17.5	18.0	19.0	20.0	21.0	20.0	19.0	16.5	15.0	10.0
Max Pressure Drop (Mpa)	cont.	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	17.5	14	10.5
	int.	24	24	24	24	24	24	24	24	19	19.5	12
	peak	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	20.5	20.5	14
Max Flow (L/min)	cont.	45	60	70	70	75	80	80	75	75	75	75
	int.	60	75	85	85	90	95	95	90	90	90	90

Geroler Motor - BMSY

Standard Model							
BMSY***-E2-G-D	Displacement	Mount	Shaft	Ports	L	L1	L2
BMSY80-E2-G-D	80	SAE A 2 Bolt	1 1/4" Parallel Key	1/2" BSPP	170	16	126.5
BMSY100-E2-G-D	100				174	20	130.5
BMSY125-E2-G-D	125				179	25	135.5
BMSY160-E2-G-D	160				181	27	137.5
BMSY200-E2-G-D	200				188	34	144.5
BMSY250-E2-G-D	250				196	42	152.5
BMSY315-E2-G-D	315				208	54	164.5
BMSY400-E2-G-D	400				223	69	179.5
BMSY475-E2-G-D	475				237	83	193.5

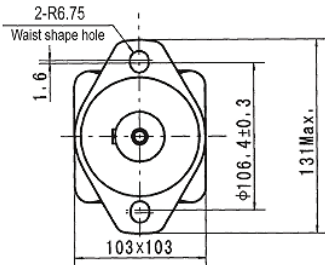
Options	
Mount Type	
E2	SAE A 2 Bolt Mount
E4	4 Bolt Square Mount 3/8" UNC
Shaft Type	
A	Ø 25mm Metric Keyed Shaft 8 x 7 x 32
B	Ø 32mm Metric Keyed Shaft 10 x 8 x 45
D	Ø 1" (25.4mm) Keyed Shaft 10 x 8 x 45
F	Ø 1 1/4" (31.75mm) SAE C 14T Splined Shaft
G	Ø 1 1/4" (31.75mm) Keyed Shaft 7.96 x 7.96 x 31.75
Seal Kit	
BMSY-SK	Seal Kit



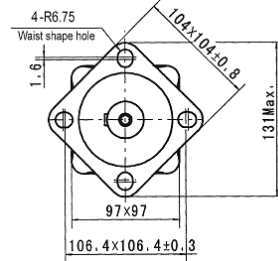
BMSY Ordering Code

Series	Displacement cc/rev	-	Flange	-	Shaft	-	Ports
BMSY	80	-	E2 Standard SAE A 2 Bolt	-	A 25mm Metric Parallel Key 8x7x32	-	D 1/2" BSPP
	100		E4 4 Bolt Square Mount 3/8" UC		B 32mm Metric Parallel Key 10x8x45		
	160				D 1" Keyed Parallel Key 6.35x6.35x25.4		
	200				G 1 1/4" (31.75mm) Parallel Key 7.96x7.96x31.75		
	250				F SAE C 14T Splined 14-DP12/24		
	315						
	400						
	475						

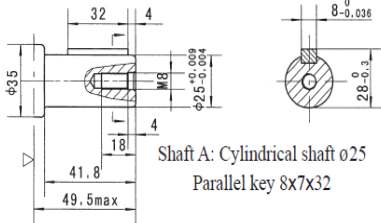




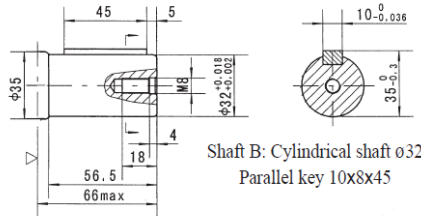
E2 SAE A 2 Bolt Mount



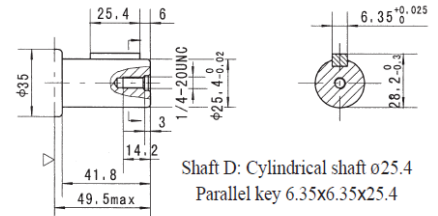
E4 4 Bolt Square Mount 3/8" UNC



Shaft A: Cylindrical shaft ø25
Parallel key 8x7x32



Shaft B: Cylindrical shaft ø32
Parallel key 10x8x45

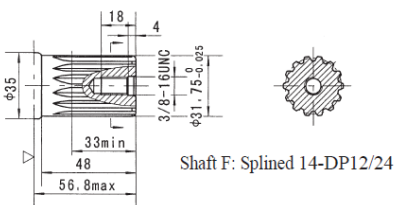


Shaft D: Cylindrical shaft ø25.4
Parallel key 6.35x6.35x25.4

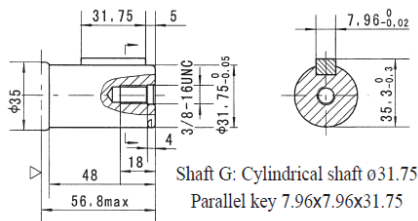
A 25mm Metric Keyed Shaft

B 32mm Metric Keyed Shaft

D 1" (25.4mm) Keyed Shaft



Shaft F: Splined 14-DP12/24



Shaft G: Cylindrical shaft ø31.75
Parallel key 7.96x7.96x31.75

F 1 1/4" SAE C 14T Splined Shaft

G 1 1/4" Keyed Shaft

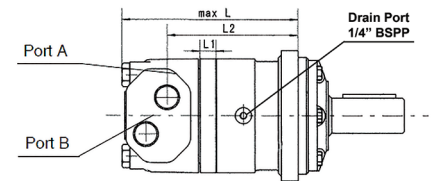
Specifications

		BMSY80	BMSY100	BMSY125	BMSY160	BMSY200	BMSY250	BMSY315	BMSY400	BMSY475
Displacement (cm ³ /rev)		80.6	100.8	125	154	194	243	311	394	475
Max Speed (rpm)	Cont	800	748	600	470	375	300	240	185	155
	Int	988	900	720	560	450	360	280	225	185
Max Torque (N-m)	Cont	225	290	365	485	586	708	880	880	910
	Int	250	320	400	540	645	806	960	960	960
Max Output (Kw)	Cont	16	18	18	18.1	18.1	18	17	11	9
	Int	20	22	23	25	24	23.8	20.2	12	11
Max Pressure Drop (Mpa)	Cont	20.5	20.5	20.5	21	21	20	20	16	14
	Int	22.5	22.5	22.5	22.5	22.5	22.5	22.5	17.5	15
	Peak	29.5	29.5	29.5	28	27	27	26	21	17.5
Max Flow (L/min)	Cont	65	75	75	75	75	75	75	75	75
	Int	80	90	90	90	90	90	90	90	90
Max Inlet Pressure	Cont	25	25	25	25	25	25	25	25	25
	Int	30	30	30	30	30	30	30	30	30
Weight (Kg)		9.8	10	10.3	10.7	11.1	11.6	12.3	13.2	14.3

Geroler Motor - BMT

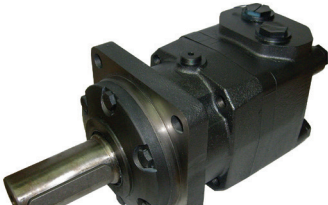
Standard Model							
BMT***-4-M-D-00	Displacement	Mount	Shaft	Ports	L	L1	L2
BMT160-4-M-D-00	160	4 Bolt Square Mount	Straight Keyed	3/4" BSPP	193	17	142.5
BMT200-4-M-D-00	200				179	21	146.5
BMT250-4-M-D-00	250				203	27	152.5
BMT315-4-M-D-00	315				210	20	158.5
BMT400-4-M-D-00	400				217	27	165.5
BMT500-4-M-D-00	500				225	35	173.5
BMT630-4-M-D-00	630				237	47	185.5
BMT800-4-M-D-00	800				248	58	195.5

Options	
Mount Type	
4	4 Bolt Square Mount
Shaft Type	
M	40mm Straight Keyed Shaft
G	1 1/2" Straight Keyed Shaft
Seal Kit	
BMT-SK	Seal Kit



BMT Ordering Code

Series	Displacement cc/rev	-	Flange		-	Shaft		-	Ports		-	Paint	
BMT	160	-	4	4 Bolt Square Mount	-	M	40mm Straight Keyed Shaft	-	D	3/4" BSPP	-	00	No Paint
	200					G	1 1/2" Straight Keyed Shaft						
	250												
	315												
	400												
	500												
	630												
	800												





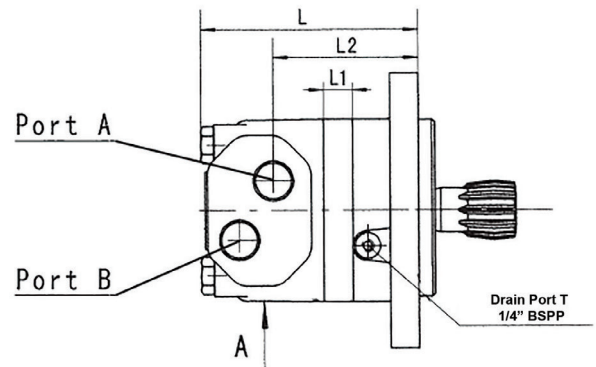
Shaft G: Cylindrical shaft ø38.1
Parallel key 9.525x9.525x5.715

G 1 1/2" Straight Keyed Shaft

		BMT160	BMT200	BMT250	BMT315	BMT400	BMT500	BMT630	BMT800
Geometric Displacement (cm³/rev)		161.1	201.4	251.8	326.3	410.9	523.6	629.1	801.8
Max Speed (rpm)	Rated	470	475	381	294	228	183	150	121
	Cont	614	615	495	380	302	237	196	154
	Int	770	743	592	458	364	284	233	185
Max Torque (N-m)	Rated	379	471	582	758	896	1063	1156	1207
	Cont	471	589	727	962	1095	1245	1318	1464
	Int	573	718	888	1154	1269	1409	1498	1520
	Peak	669	838	1036	1346	1450	1643	1618	1665
Max Output (Kw)	Rated	18.7	23.4	23.2	23.3	21.4	20.4	18.2	15.3
	Cont	27.7	34.9	34.5	34.9	31.2	28.8	25.3	22.2
	Int	32	40	40	40	35	35	27.5	26.8
Max Pressure Drop (Mpa)	Rated	16	16	16	16	15	14	12	10.5
	Cont	20	20	20	20	18	16	14	12.5
	Int	24	24	24	24	21	18	16	13
	Peak	28	28	28	28	24	21	19	16
Max Flow (L/Min)	Rated	80	100	100	100	100	100	100	100
	Cont	100	125	125	125	125	125	125	125
	Int	125	150	150	150	150	150	150	150
Max Inlet Pressure	Rated	21	21	21	21	21	21	21	21
	Cont	21	21	21	21	21	21	21	21
	Int	25	25	25	25	25	25	25	25
	Peak	30	30	30	30	30	30	30	30
Weight (Kg)		19.5	20	20.4	21	22	23	24	25

Geroler Motor - BMTS

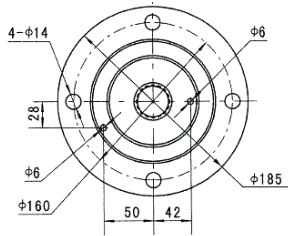
Standard Model							
BMTS***-D-D	Displacement	Mount	Shaft	Ports	L	L1	L2
BMTS160-D-D	160	4x14 160pcd Circle Flange	Short Shaft 16-DP 12/24	3/4" BSPP	148	17	95.5
BMTS200-D-D	200				152	21	100.5
BMTS250-D-D	250				157	14	109
BMTS315-D-D	315				163	20	115
BMTS400-D-D	400				170	27	122
BMTS500-D-D	500				178	35	130
BMTS630-D-D	630				190	47	142
BMTS800-D-D	800				201	58	153



BMTS Ordering Code

Series	Displacement cc/rev	-	Flange		-	Shaft		-	Ports		-
BMTS	160	-	D	4x14 160pcd Circle Flange	-	-	Short Shaft 16-DP 12/24	-	D	3/4" BSPP	-
	200										
	250										
	315										
	400										
	500										
	630										
	800										





D 4X14 160pcd Circle Flange

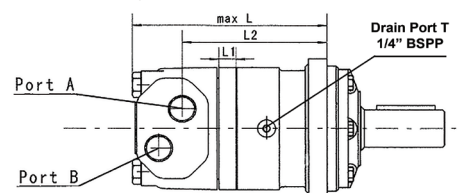
Specifications

		BMT160	BMT200	BMT250	BMT315	BMT400	BMT500	BMT630	BMT800
Geometric Displacement (cm ³ /rev)		161.1	201.4	251.8	326.3	410.9	523.6	629.1	801.8
Max Speed (rpm)	Rated	470	475	381	294	228	183	150	121
	Cont	614	615	495	380	302	237	196	154
	Int	770	743	592	458	364	284	233	185
Max Torque (N-m)	Rated	379	471	582	758	896	1063	1156	1207
	Cont	471	589	727	962	1095	1245	1318	1464
	Int	573	718	888	1154	1269	1409	1498	1520
	Peak	669	838	1036	1346	1450	1643	1618	1665
Max Output (Kw)	Rated	18.7	23.4	23.2	23.3	21.4	20.4	18.2	15.3
	Cont	27.7	34.9	34.5	34.9	31.2	28.8	25.3	22.2
	Int	32	40	40	40	35	35	27.5	26.8
Max Pressure Drop (Mpa)	Rated	16	16	16	16	15	14	12	10.5
	Cont	20	20	20	20	18	16	14	12.5
	Int	24	24	24	24	21	18	16	13
	Peak	28	28	28	28	24	21	19	16
Max Flow (L/Min)	Rated	80	100	100	100	100	100	100	100
	Cont	100	125	125	125	125	125	125	125
	Int	125	150	150	150	150	150	150	150
Max Inlet Pressure	Rated	21	21	21	21	21	21	21	21
	Cont	21	21	21	21	21	21	21	21
	Int	25	25	25	25	25	25	25	25
	Peak	30	30	30	30	30	30	30	30
Weight (Kg)		19.5	20	20.4	21	22	23	24	25

Geroler Motor - BMV

Standard Model							
Part Number	Displacement	Mount	Shaft	Ports	L	L1	L2
BMV315-4-A-D-00	315	4 Bolt Square Mount	Straight Keyed	1" BSPP	217	27	161.5
BMV400-4-A-D-00	400				224	34	168.5
BMV500-4-A-D-00	500				232	42	176.5
BMV630-4-A-D-00	630				244	54	188.5
BMV800-4-A-D-00	800				255	65	199.5

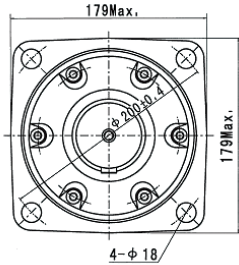
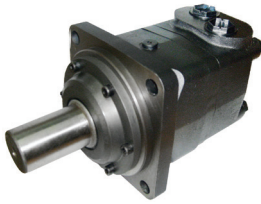
Options	
Seal Kit	
BMV-SK	Seal Kit



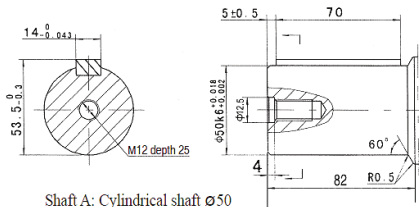
BMV Ordering Code

Series	Displacement cc/rev	-	Flange		-	Shaft		-	Ports		-	Paint	
BMV	315	-	4	4 Bolt Square Mount	-	A	50mm Straight Keyed Shaft	-	D	1" BSPP	-	00	No Paint
	400												
	500												
	630												
	800												





4 Bolt Square Mount



Shaft A: Cylindrical shaft Ø50
Parallel key 14x9x70

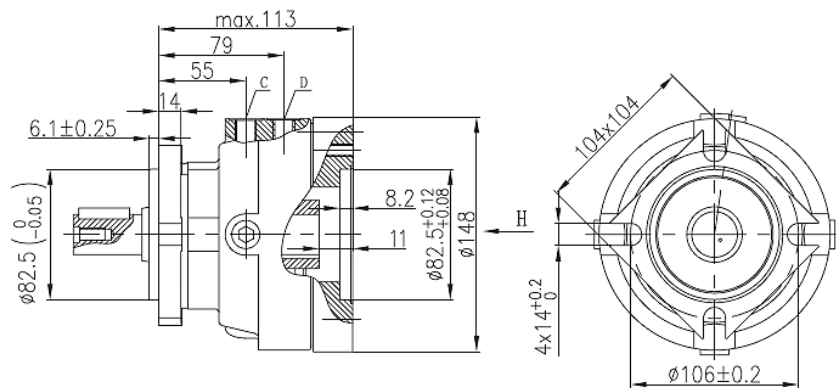
A 50mm Straight Keyed Shaft

Specifications

		BMV315	BMV400	BMV500	BMV630	BMV800
Geometric Displacement (cm ³ /rev)		333	419	518	666	801
Max Speed (rpm)	Rated	335	270	215	170	140
	Cont	446	354	386	223	185
	Int	649	526	425	331	275
Max Torque (N-m)	Rated	730	1020	1210	1422	1590
	Cont	925	1220	1450	1640	1810
	Int	1100	1439	1780	2000	2110
	Peak	1349	1700	2121	2338	2470
Max Output (Kw)	Rated	25.6	28.8	27.2	25.3	23.3
	Cont	43	45.2	58.6	38.3	35.1
	Int	52	52	52	46	40
Max Pressure Drop (Mpa)	Rated	16	16	16	16	14
	Cont	20	20	20	18	16
	Int	24	24	24	21	18
	Peak	28	28	28	24	21
Max Flow (L/Min)	Rated	110	110	110	110	110
	Cont	150	150	150	150	150
	Int	225	225	225	225	225
Max Inlet Pressure	Rated	21	21	21	21	21
	Cont	21	21	21	21	21
	Int	25	25	25	25	25
	Peak	30	30	30	30	30
Weight (Kg)		31.8	32.6	33.5	34.9	36.5



Model	Input Shaft	Output Shaft	Torque	Max Pressure
BK2-1-430-E-B	1" 6B Spline	32mm Str Keyed	410-450 Nm	300 Bar
BK2-1-430-E-C	1" 6B Spline	1" Str Keyed		
BK2-1-430-C-C	1" Str Keyed	1" Str Keyed		
BK2-1-430-G-G	1 1/4" Str Keyed	1 1/4" Str Keyed		

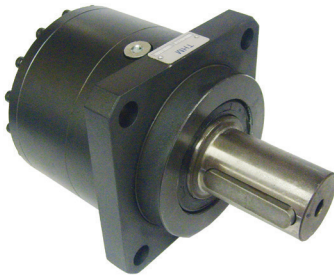


C Drain Port - G1/4" 9mm Depth

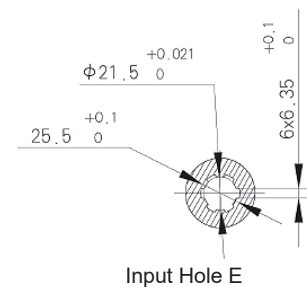
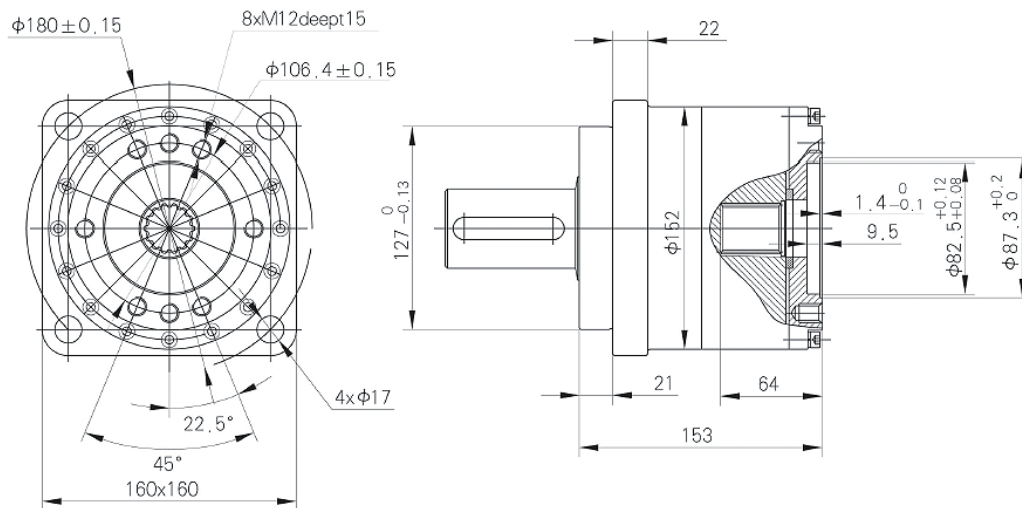
D Brake Release Port - G1/4" 9mm Depth

Specifications	BK2-1
Min Static Torque Nm	410 - 450
Min Opening Pressure MPa	1.7-2.3
Max Opening Pressure MPa	30
Min Oil Quantity for Brake Releasing cm ³	7-8
Oil Volume cm ³	50-120
Max Pressure in Drain Space MPa	0.05
Weight Kg	9

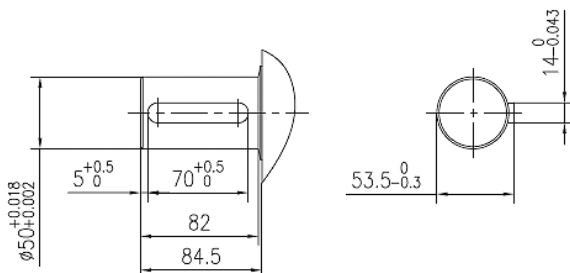
***Static torque is obtained at 0 MPa working pressure**

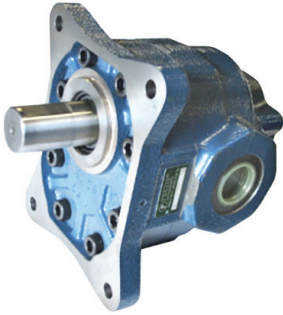


Model	Input Shaft	Output Shaft	Max Torque	Ratio
HGB3.65EA	1" 6B Splined	50mm Str Keyed	2000 Nm	3.65:1



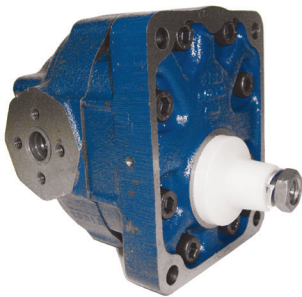
Shaft A





Group 3 Bi-Directional Gear Motor
Cast Iron Gear Motor with Group 3.5 Flange
Screen Motors

Part Number	cc/rev	Shaft	Ports	Case Drain
030W0MD64G564XR0BN	64cc	30mm Straight Keyed	1" BSPP	3/8" BSPP



Group 3 Left Hand Gear Motor
Cast Iron Gear Motor
Milk Tanker Motor

Part Number	cc/rev	Shaft	Ports	Case Drain
03MW003500S	35cc	1:8 Tapered Keyed Shaft	Flanged Ports	No Case Drain



SAE A Mount
Left Hand
Milk Tanker Motor

Part Number	cc/rev	Shaft	Ports
MZ2CG25C438S	25cc	1:8 Tapered Shaft	UNO Ring Ports



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