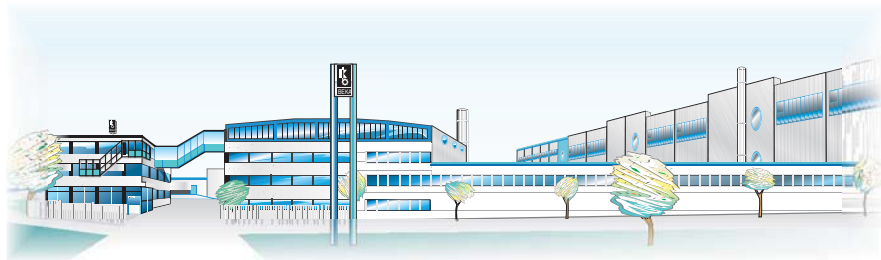


PRODUCT OVERVIEW

INDUSTRIAL LUBRICATION



► Single Line Lubrication Systems

► Gear pump units	00-1-10-03
► Pneumatic pump units	00-1-10-05
► Hydraulic pump units	00-1-10-06
► Manual piston pumps	
► Proportioning valves, metering valves	00-1-10-07
► Metering distributor block, Metering unit	00-1-10-08
► Distributor block, oil-air distributor 4299	00-1-10-09

► Progressive-Central Lubrication Systems

► Progressive distributors	00-1-10-10
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► Dual Line-Central Lubrication Systems

► Dual line distributors	00-1-10-11
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► Components for main line controlling

► Components for change-over monitoring

► Multi Line-Central Lubrication Systems

► Oil Lubrication Pumps

► Oil lubrication pumps of the series T	00-1-10-12
► Oil lubrication pumps of the series A	00-1-10-13
► Oil lubrication pumps of the series D	
► Oil lubrication pumps of the series C	00-1-10-14
► Oil lubrication pumps of the series OKG	00-1-10-15
► Magnetic pumps (K 407, K 412, K 442, FAZ04345-01)	
► Pneumatic pumps (P2663, P2664, P2669, P2686, PAU)	00-1-10-16
► Single piston-tappet pump (EHS) or tappet pump (SP)	
► Hydraulic pumps (FAZ02142-05, FAZ02142-06)	

► Grease Lubrication Pumps

► Grease lubrication pumps of the series PICO	00-1-10-17
► Grease lubrication pumps of the series FK...-OC / FK...-EP	
► Grease lubrication pumps of the series PP-1	00-1-10-18
► Grease lubrication pumps of the series F (F6, F-super, F-super 3)	00-1-10-19
► Magnetic pump (FAZ04345-03)	
► Grease lubrication pumps of the series FK	00-1-10-20
(FKR, FKP, FKG, FKG-V, FKG-S, FKG-A, FKGM, FKMS, FVAM)	
► Manual pumps (FHX 2, AZ-2535, FHX, FHX-MX)	00-1-10-21
► Pneumatic pumps (P2103)	
► Hydraulic pumps (HP-1, AZ-2369, HKP-1, HPM-2, HPG-2, HPH-2)	00-1-10-22

► Circulating Lubrication Systems

► Flow control valve, Flow liwithing device, Volume flow control FXE	00-1-10-23
► Gear pumps	00-1-10-24
► Internal gear pumps	

► Special Lubrication Systems

► Barrel pumps (EFP-1, EFPM-2, HFP, HFP-2U, Qmaxx)	00-1-10-25
► Lubrication pinions	
► Special units	00-1-10-26

► Fittings and Accessories

► Accessories - oil reservoir	00-1-10-27
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Gear pump units



EA 1,5



BEKA
Xlube

Model	Modele	Output rate (l/min)	Pressure max. (bar)	Reservoir size (l)	Reservoir material	Delivery volume
EA 1,5 oil	2727	0,4	40	3	plastic, transparent	Oil, 20 - 700 mm ² /s
EA 1,5 fluid grease	2728					Fluid grease a. release list
BEKA Xlube	2712	0,25	28	1,2		Oil, 20 - 700 mm ² /s or fluid grease a. release list



Super 3
EA-tronic left



Super 3
EA-tronic right



Super EA-tronic
with 4 l-reservoir



Super EA-tronic
with 6 l-reservoir



Mini EA-tronic
with 3 l-reservoir



Mini 2
EA-tronic

Model	Model	Output rate (l/min)	Pressure max. (bar)	Reservoir size (l)	Reservoir material	Delivery volume
Super 3 EA-tronic left	2805	0,4	35	3	plastic, transparent	Oil 20 - 700 mm²/s or fluid grease acc. to release list
Super 3 EA-tronic right	2806					
Super EA-tronic with 4 l-reservoir	2800			4	aluminium	
Super EA-tronic with 6 l-reservoir				6	steel	
Mini EA-tronic with 3 l-reservoir				3	plastic, transparent	
Mini 2 EA-tronic	2810			1.5		

Overview

Gear pump units



ES ES 2711 with 3 l-reservoir ES 2711 with 6 l-reservoir ES 2711 with 13 l-reservoir ES 2711 with 16 l-reservoir ES 2711 with 30 l-reservoir

Model	Modele	Output rate (l/min)	Pressure max. (bar)	Reservoir- size (l)	Reservoir- material	Lubricant
ES (without reservoir)	2710	0,4	35	-	-	Oil 20 - 700 mm²/s or fluid grease acc. to release list
ES 2711 with 3 l-reservoir	2711			3	aluminium	
ES 2711 with 6 l-reservoir				6	steel	
ES 2711 with 13 l-reservoir				13	aluminium	
ES 2711 with 16 l-reservoir				16	steel	
ES 2711 with 30 l-reservoir				30	aluminium	



EA 3 EA 3 / EA 6 EA 3 / EA 6 EA 3 / EA 6 EA 3 / EA 6 EA 3 / EA 6
EA 6 with 3 l-reservoir with 6 l-reservoir with 13 l-reservoir with 16 l-reservoir with 30 l-reservoir

Model	Modele	Output rate (l/min)	Pressure max. (bar)	Reservoir- size (l)	Reservoir- material	Lubricant
EA 3 / EA 6 (without reservoir)	2700	1 or 2	35	-	-	Oil 20 - 700 mm²/s
EA 3 / EA 6 with 3 l-reservoir	2705			3	GK - AISi12	
EA 3 / EA 6 with 6 l-reservoir				6	steel	
EA 3 / EA 6 with 13 l-reservoir				13	aluminium	
EA 3 / EA 6 with 16 l-reservoir				16	steel	
EA 3 / EA 6 with 30 l-reservoir				30	aluminium	

Subject to alterations!

Pneumatic pump units



P30.2 to P50.8



2564
with 2,7 l-reservoir



P30-6
with 6 l-reservoir



P5.2 / P8.4 / P8.8



P5.6 / P8.6
with 6 l-reservoir

Model	Type	Output rate (cm ³ /stroke)	Pressure ratio	Drive press. (bar)	Reservoir size (l)	Reservoir material	Lubricant
P30.2 to P50.8	2564	30 or 50	1:9	5 - 10	2,5/ 4,2/ 8	plastic, transparent	Oil 20 - 700 mm ² /s or fluid grease acc. to release list
2564 with 3 l-reservoir					2,7		
P30-6 with 6 l-reservoir					6	steel	
P5.2 / P8.4 / P8.8	2563	10	1:11	4 - 8	2,5/ 4,2/ 8	plastic, tr.	
P5.6 / P8.6 with 6 l-reservoir	2565	15	1:8		6	steel	



P30 und P50
ohne reservoir



P605
ohne reservoir



P5.1,2 und P8.1,2
with 1,2 l-reservoir



PPF-1

Model	Type	Output rate (cm³/stroke)	Pressure ratio	Drive press. (bar)	Reservoir- size (l)	Reservoir- material	Lubricant
P30 and P50 (without reservoir)	2564	30 or 50	1:9	5 - 10	-	-	Oil 20 - 700 mm²/s or fluid grease acc. to release list
P605 (without reservoir)	2566	3	1:32	3 - 8			
		9,5	1:12				
		15	1:8				
P5.1,2 und P8.1,2 with 1,2 l-reservoir	2562	10 15	1:11 1:8	4 - 8	1,2	plastic, transparent	
PPF-1	2161	50	1:5	6 - 10	4		

Overview

Hydraulic pump units



PH1/ PH6/ Ph10
without reservoir

Model	Type	Output rate (cm³/stroke)	Pressure ratio	Operating press. (bar)	Relief pressure (bar)	Reservoir size (l)	Reservoir material	Lubric.
PH1 PH6 PH10 without reservoir	2577	1	1:2	max. 55	1 - 2	-	-	Oil 20 - 700 mm²/s or fl. grease acc. to release list
		6	1:2					
		10	1:1					
PH1-6 PH6-6 PH10-6 with 6 l-reservoir	2578	1	1:2					
		6	1:2					
		10	1:1					

Manual piston pumps



Manual pump 2532



Manual pump 2533

Model	Type	Output rate (cm ³ /stroke)	Operating press. (bar)	Reservoir- size (l)	Reservoir- material	Lubricant
Manual pump 2532	2532	6/ 10/ 15	30	1,2	plastic, transparent	Oil, 20 - 700 mm ² /s or fl. grease acc. to release list
Manual pump 2533	2533	6/ 10				

Subject to alterations!

Metering valves (dynamic system)



Size 1

with bolted connection Ø 4



Size 1

with bolted connection Ø 6



Size 1

with plug connection f. PA-pipes



Size 1

with plug conn. a. chamfer

Model	Met. volume (mm³/stroke)	Size	Type / Connection type			Relief press. (bar)	Operating press. (bar)	Lubric.
Z31ZV1	10	1	4030 / Bolted connection	4036 / Plug connection for PA-pipes	4036 / Plug connection and chamfer	max. 1	15 - 40	Oil 50 - 700 mm²/s or fluid greas. acc. to release list
Z31ZV2	20							
Z31ZV3	30							
Z31ZV5	50							
Z31ZV10	100							
Z31ZV15	150	2						
Z31ZV20	200							
Z31ZV40	400	3						
Z31ZV50	500							
Z31ZV60	600							
Z31ZV100	1000							

Metering valves (static system)



Z31DV.. / Z31DDV..

with bolted connection



Z31DV.. / Z31DDV..

with plug connection



Z31DV..

with elbow plug connection

Model	Metering volume (mm ³ /stroke)	Type	Connection type	Relief pressure (bar)	Operating pressure (bar)	Material	Lubricant
Z31DV3	30	4031	- Bolted connection - Plug connection for polyamide pipes - Elbow plug connections for polyamide pipes	max. 4	15 - 40	steel or stainless steel	Oil 20 - 700 mm ² /s or fluid grease acc. to release list
Z31DV5	50						
Z31DV10	100						
Z31DV15	150						
Z31DV20	200						
Z31DDV3	30	4032	- Bolted connection - Plug connection	max. 1		steel	Oil 20 - 700 mm ² /s
Z31DDV6	60						
Z31DDV10	100						
Z31DDV16	160						

Overview

Metering distributor blocks



Size	Metering volume (mm³/stroke)	Type / Connection type	Number of lub. points	Connections		Relief pressure (bar)	Operating pressure (bar)	Lubricant
1	10	4018 Bolted connection	1 to 10	M10x1 Pipe Ø 6 mm	M8x1 Pipe Ø 4 mm	max. 3	12 - 50	Oil 10 - 1000 mm²/s or fluid grease acc. to release list
	30							
	60	40181 Plug connection						
	100							
	160							
2	100	4180 Bolted connection		M12x1				
	200							
	300	4181 Plug connection						
	400							
	600							
3	200	41820/ 41823/ 41824 Bolted connection	1 to 3	M12x1 or G 1/8				
	400							
	600	41840/ 41841/ 41842 Plug connection						
	1000							
	1500							

Metering units for direct lubrication point connection (static system)



Design A



Design B



Design C



Design D

Design	Model	Metering vol. (mm³/stroke)	Type	Connection type	Relief pressure (bar)	Operating press. (bar)	Delivery volume
A	G	30 60 100	4176	Bolted connection	max. 1	max. 35	Oil
B	L						40 - 250 mm²/s
C	T						fluid grease
D	W						acc. release list
E (revolving)	LS		4174	Plug connection Ø 4 mm für Polyamidrohre			Oil
F (revolving)	TS						40 - 250 mm²/s

Subject to alterations!

Distributor blocks



Size 1
Z32VL3 or Z33VL6



Size 1
Z32VL4 or Z33VL8



Size 1
Z32VL5 or Z33VL10

Size	Model	Outlets	No. of outlets	Type	Design	Connection	Material	
1	Z32VL1 - Z32VL12	one-sided	1 to 12	4020	with or without union nuts	M8x1	steel, galvanized	
	Z33VL2 - Z33VL24	two-sided	2x1 to 2x12			M10x1		
2	Z32VL1/2 - Z32VL10/2	one-sided	1 to 10			M10x1		
	Z33VL2/2 - Z33VL20/2	two-sided	2x1 to 2x10					

Oil / Air distributor 4299



Type	Number of lub. points	Metering volume (mm³/stroke)	Connection sprayed air	Connection lubricant	Pressure connection oil-air mixture
4299	2 / 4 / 6 / 8	10 / 20 / 30 / 50	M10x1	M10x1	M8x1, pipe Ø 4 (Plug connection)

Overview

Plate construction



MX-F



SX-1



SX-2



SX-3



UX

Model	Type	Volume flow range (oil) (cm³/min)	Press. max. (bar)	No. of outlets max.	Connection inlet	Connection outlet	Material	Metering vol. (mm³/stroke p. outlet)	Lubricant
MX-F	4010	2 - 400	300	24	M10x1	M10x1	steel,	25 - 105	Oils and greases up to NLGI-cl. 2
SX-1	4000	5 - 500		20	G 1/8	G 1/8	galvanized	68 - 430	
SX-2	3989	5 - 1800					75 - 470		
SX-3	4008						stainl. steel		
UX	4005	50 - 6000	250	G 1/2	G 3/8	steel, chrom.	1130 - 2000		

Segment construction



SXE-2 / SXE-3



SXD



SX-4



UX-5

Sandwich construction

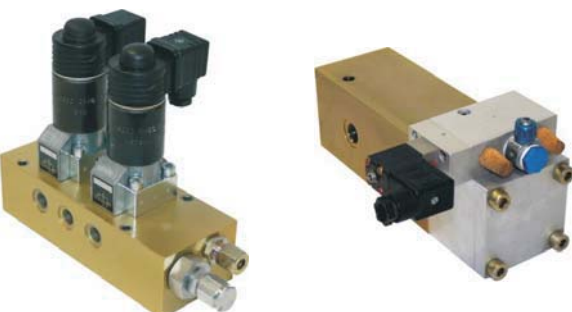
Model	Type	Volume flow range (oil) (cm³/min)	Press. max. (bar)	No. of outlets max.	Connection inlet	Connection outlet	Material	Metering vol. (mm³/stroke p. outlet)	Lubricant
SXE-2	4003	10 - 2000	300	20	G 1/4	G 1/8	steel,	100 - 760	Oils and greases up to NLGI-cl. 2
SXE-3	3985		200		G 3/8	G 1/4	galvanized		
SXD	3998				G 3/8				
SX-4	4009		150		G 1/4	G1/4 / G1/8	steel, chrom. /	1000 - 3800	
UX-5	3986	50 - 6000			G 1/2	G 3/8	conn. plate aluminium		

Dual line distributors



BV		BW			BZ		UXZ	
Model	Type	Pressure max. (bar)	Temperature range (° C)	No. of outlets max.	Connection inlet	Connection outlet	Material	Metering vol. (mm³/stroke p. outlet)
BV	3981	300	-30 to 80	8	G 1/4	G 1/4	steel,	70 - 300
BW	3980	(min. 35)			galvanized		300 - 1500	
BZ	4001	400			steel, chrom. / 1.4305		250 - 3000	
UXZ	4006	150			G 3/8	steel, chrom.	1130 - 2000	

For controlling the main line



4/3-way control valve

4/2-way control valve

For controlling the changeover



Pressure changeover switch

Differential pressure control gear

Component	Type	Activity	Operating press. (bar)	Volume flow (l/min)	Material	Lubricant
4/3-way control valve	4340	electric	400	8	GG-25	Oils up to 20 000 mm²/s Greases up to NLGI-cl. 2
4/2-way control valve	4065	electro-pneumatic	350	20	steel, galvanized	
Pressure changeover switch	0421	hydraulic	150 / 300	8		
Differential pressure control gear	4305	electric	400	-		

Overview

Series T



TDM-FSU



TDM-FS 4

Model	Type	Number of outlets	Output rate max. (cm ³ / stroke and outlet)	Reduction	No. of rotation max. (r / min)	Pressure max. (bar)	Suction height (mm)/(max)
TDM-FSU	2200	1 - 2	0,1	33:1	300 - 1800	3	300
TDM-FSU-M	2201						
TDM-FS 4	2204	3 - 4	0,1	33:1	300 - 1800	3	300
TDM-FS 4-M	2205						



TDM 2



TDM 4



TDM 8



TDM 4-M

Model	Type	Number of outlets	Output rate max. (cm³ / stroke and outlet)	Reduction	No. of rotation max. (r / min)	Pressure max. (bar)	Suction height (mm)/(max)
TDM 2	2210	1 - 2	0,039 - 0,088	71,5:1 - 428:1	500 - 3000	3 / 5	300
TDM 2-M	2211						
TDM 4	2212	3 - 4	0,039 - 0,088	71,5:1 - 428:1	500 - 3000	3 / 5	300
TDM 4-M	2213						
TDM 8	2214	5 - 8	0,039 - 0,088	92:1 - 1050:1	500 - 3000	3 / 5	300
TDM 8-M	2215						
TDM-M	Power requirement: 0,09 kW; available for all pumps of the series T, see TDM-FSU-M, TDM-FS 4-M, TDM 2-M, TDM 4-M, TDM 8-M						

Subject to alterations!

Series A



Model	Type	Max. outlets	Output rate max. (cm ³ / stroke and outlet)	Reduction	No. of rotation max. (r / min)	Pressure max. (bar)	Suction height (mm)/(max)
AZU	2240	12	0,06	25:1 50:1	100 - 600 200 - 1300	10	500
AZP	2242			25:1	max. 40		
AF	2244			18:1 25:1 36:1	100 - 500 100 - 600 150 - 1400		
AFG	2248			80:1 / 160:1 320:1 / 640:1	500 - 2400 1500 - 2800		
AFG-M	2250			50:1 / 80:1 / 160:1 320:1 / 640:1	1500 / 1800		
APG-M	2243			400:1 / 288:1	2900 / 3000		

Series D



Model	Type	Max. outlets	Output rate max. (cm ³ / stroke and outlet)	Reduction	No. of rotation max. (r / min)	Pressure max. (bar)	Suction height (mm)/(max)
DU	2260	12	0,15	12:1/ 18:1/ 36:1	500 - 750	50	1000
DP	2262			2:1	80		
DG	2266			80:1/ 160:1/ 320:1 640:1	2500		
DFG	2268			160:1/320:1/640:1	2500		
DFG-M	2270			80:1/ 160:1/ 320:1 640:1	Power requirement 0,25 kW		

Overview

Series C



C 1,5
oscillating



CS 3
rotating



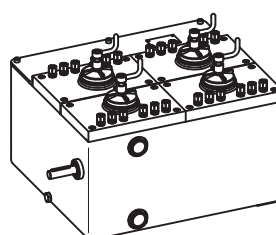
CS 3
oscillating



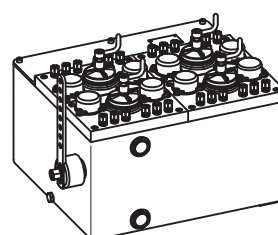
CCS 3
rotating



CCS 6
oscillating



CC 30
rotating



CCS 30
oscillating

Model	Drive	Type	Max. outlets	Max. cm³/stroke and outlet	Reduction	Max. r / min	Max. bar		
C 1,5	rotating	2300	12	0,15	12/18/36/72:1	500/750/1400/2600	50		
	oscillating	2301			1/ 3,15:1	40/125			
CS 1,5	rotating	2302	6		12/18/36/72:1	500/750/1400/2600			
	oscillating	2303			1/ 3,15:1	40/125			
C 3	rotating	2310	12		12/18/36/72:1	500/750/1400/2600			
	oscillating	2311			1/ 3,15:1	40/125			
CS 3	rotating	2312	6		12/18/36/72:1	500/750/1400/2600			
	oscillating	2313			1/ 3,15:1	40/125			
CC 3	rotating	2320	24		12/18/36/72:1	500/750/1400/2600			
	oscillating	2321			1/ 3,15:1	40/125			
CCS 3	rotating	2322	12		12/18/36/72:1	500/750/1400/2600			
	oscillating	2323			1/ 3,15:1	40/125			
CC 6	rotating	2340	24		12/18/36/72:1	500/750/1400/2600			
	oscillating	2341			1/ 3,15:1	40/125			
CCS 6	rotating	2342	12		12/18/36/72:1	500/750/1400/2600			
	oscillating	2343			1/ 3,15:1	40/125			
CC 30	rotating	2360	48		12/18/36/72:1	500/750/1400/2600			
	oscillating	2361			1/ 3,15:1	40/125			
CCS 30	oscillating	2362	24		1/ 3,15:1	40/125			
	rotating	2363			12/18/36/72:1	500/750/1400/2600			
CC 30 M	with motor	2364	48			80/120/180/		1500/1800	
CCS 30 M	with motor	2368	24			240/360/720:1			

Series OKG



OKGGM-OC
DC



OKGGM-OC
with power unit, AC 1~



OKGM-OC
AC 3~



OKGGM-EP
DC



OKGGM-EP
with power unit, AC 1~



OKGM-EP
AC 3~

Model	Type	Max. outlets	Output rate max. (cm³ / stroke and outlet)	Reduction	No. of rotation (r / min)	Pressure max. (bar)
OKGGM-OC DC	2035	21	0,005 / 0,010 / 0,015 0,025 / 0,05	-	15	200
OKGGM-OC with power unit, AC 1~	2029	21	0,005 / 0,010 / 0,015 0,025 / 0,05	-	15	200
OKGM-OC AC 3~	2017	21	0,005 0,010 0,015 0,025 0,050	80:1 150:1 300:1 400:1 600:1 1200:1	1350 at 50 Hz 1600 at 60 Hz	200
OKGGM-EP DC	2040	3	0,06 / 0,12 / 0,17	-	15	250
OKGGM-EP with power unit, AC 1~	2038	3	0,06 / 0,12 / 0,17	-	15	250
OKGM-EP AC 3~	2011	6	0,06 0,12 0,17	(80:1)* 150:1 300:1 400:1 600:1 1200:1	1350 at 50 Hz 1600 at 60 Hz	250

* Special request after consultation

Magnetic pumps



K 407



K 442



FAZ04345-01

Model	Type	Outlets max.	max. Output rate (cm³ / stroke and outlet)	Reservoir size (l)	Reservoir material
K 407	2652	6	0,040 / 0,100	0,75	plastic
K 412	2653			1,2	plastic, transparent
K 442	2640			4	
FAZ04345-01	2643	2 - 6	0,015 / 0,025 / 0,035	0,4	

Subject to alterations!

Overview

Pneumatic pumps



P2663



P2669

Model	Type	Outlets max.	Output rate max. (cm ³ / stroke and outlet)	Reservoir size (l)	Reservoir material	Compress. air (bar)
P2663	2663	5	0,025	0,5	plastic	6 - 10
P2664	2664			1,2		
P2669	2669		0,010	0,5		
P2686	2686	4	0,005 - 0,050	-	-	
PAU	2685	1	10	-	-	

Single piston-tappet pump (EHS) or tappet pump (SP)



EHS 0,6

Model	Type	Outlets max.	Output rate max. (cm³ / stroke and outlet)	Pressure max. (bar)	Suction height max. (mm)
EHS 0,6	2140	4	0,15	12	300
EHS 0,15 S55	2141	1			
EHS 2,5 - S	2135		2,50		in reservoir
SP 0,56	2605		0,56	80	-
SP 1,12		1,12			

Hydraulic pumps



FAZ02142-05



FAZ02142-06

Model	Type	Output rate (cm ³ /stroke)	Operating pressure max. (bar)	Drive pressure (bar)	Number of outlets
FAZ02142-05	2122	2 / 3 / 4,5 / 6 / 7,5	200	60 - 200	1 - 10
FAZ02142-06		6			1

Subject to alterations!

PICO



Design	Type	Max. outlets	Delivery volume max. (cm ³ / stroke and outlet)	System type	Drive speed motor / shaft (r / min)	Pump speed 1 r. = 1 stroke (r / min)	Pressure max. (bar)
PICO DC	2185	8	0,005 / 0,010 / 0,015 0,025 / 0,05	Multi line	-	15	200
		2	0,12	Progressive			280

Series FK...-OC / FK...-EP



FKGGM-OC
DC



FKGGM-OC
with PSU, AC 1~



FKGM-OC
AC 3~



FKGGM-EP
DC



FKGGM-EP
with PSU, AC 1~



FKGM-EP
AC 3~

Design	Type	Max. outlets	Delivery volume max. (cm ³ / stroke and outlet)	Reduction	Drive speed motor / shaft (r / min)	Pump speed 1 r. = 1 stroke (r / min)	Pressure max. (bar)
FKGGM-OC DC	2154	21	0,005 / 0,010 / 0,015 0,025 / 0,05	-	-	15	200
FKGGM-OC with PSU, AC 1~	2024						
FKGM-OC AC 3~	2016		0,005 0,010 0,015 0,025 0,050	80:1 150:1 300:1 400:1 600:1 1200:1	1350 at 50 Hz 1600 at 60 Hz	-	
FKGGM-EP DC	2018	3	0,06 / 0,12 / 0,17	-	-	15	250
FKGGM-EP with PSU, AC 1~	2037						
FKGM-EP AC 3~	2013	6	0,06 0,12 0,17	(80:1)* 150:1 300:1 400:1 600:1 1200:1	1350 at 50 Hz 1600 at 60 Hz	-	

* Special request after consultation

Overview

Series FK...-EP (continuation)



FKGM-EP
with norm motor, AC 3~



FKG-EP
with flange 56 C



FKR-EP
rotating

Design	Type	Max. outlets	Delivery volume max. (cm ³ / stroke and outlet)	Reduction	Speed motor / shaft (r / min)	Pump speed 1 r. = 1 stroke (r / min)	Pressure max. (bar)
FKGM-EP with norm motor AC 3~	2014	8	0,06 0,12 0,17	(80:1)* 150:1 300:1 400:1 600:1 1200:1	1500 at 50 Hz 1800 at 60 Hz	-	250
FKG-EP with flange 56 C					-	min. 1 max. 25	
FKR-EP rotating	2015	7		14:1 / 19:1 28:1 / 57:1			

* Special requests after consultation

Series PP-1 (pneumatic drive)



Design	Type	Max. outlets	Delivery volume max. (cm ³ / stroke and outlet)	Control unit	Operating pressure air (bar)	Pressure max. (bar)
PP-1	2153	3	0,06 / 0,12 / 0,17	3/2-ways-solenoid valve	6 - 10	280

Series F



F6
rotating

F6
with geared motor

F-super
with geared motor

F-super
rotating

F-super 3
with geared motor

F-super 3
oscillating

Design	Type	Max. out-lets	Delivery volume max. (cm ³ / stroke and outlet)	Reduction	Speed motor / shaft (r / min)	Pump speed 1 r. = 1 stroke (r / min)	Pressure max. (bar)
F6 rotating	2032	20	0,06 0,12 0,17	9:1 / 18:1 / 25:1 36:1 / 50:1	-	min. 1 max. 25	250
F6 with geared motor AC 3~	2034			135:1/ 270:1/ 375:1 450:1/ 540:1/ 600:1 750:1/900:1/1250:1 1800:1/ 2500:1	2800	-	
F-super with geared motor AC 3~	2050			88:1 / 165:1 280:1 / 410:1 600:1 / 800:1 1000:1	1420at 50 Hz 1700 at 60 Hz	-	
F-super rotating	2051	21		15:1 / 22,5:1 45:1	-	min. 1 max. 25	
oscillating	2052			2,5:1			
F-super 3 with geared motor AC 3~	2053	3	0,56	46:1	1420 at 50 Hz 1700 at 60 Hz	-	400
F-super 3 rotating	2054			15:1 / 22,5:1 45:1	-	min. 1 max. 25	
oscillating	2055			2,5:1			

Magnetic pump

Model	Type	Outlets max.	Output rate max. (cm ³ / stroke and outlet)	Reservoir size (l)	Reservoir material
FAZ04345-03	2643	2 - 6	0,015 / 0,025 / 0,035	0,4	plastic, clear-sighted

Overview

Series FK



FKR
rotating



FKP
oscillating



FKG
rotating
vertical



FKG-V
rotating
swivelling by 90°



FKG-S
rotating
vertical



FKG-A
rotating
vertical

Model	Type	Outlets max.	Output rate max. (cm³ / stroke and outlet)	Ratio	Drive speed / speed (r / min)	Press. max. (bar)
FKR rotating	2000	12	0,1	14:1 / 19:1 28:1 / 57:1	min.: 28/38/56/114 max.: 210/300/430/850	50
FKP oscillating	2001			3,5:1	35	
FKG rotating vertical	2002			84:1 / 150:1 300:1 / 400:1 600:1 / 1200:1	300 - 2800	
FKG-V rotating swivelling by 90°	2004			84:1 / 150:1 300:1 / 400:1 600:1 / 1200:1		
FKG-S rotating vertical	2005					
FKG-A rotating vertical	2006	8		300:1 / 450:1 900:1		



FKGM
with motor



FKMS
with motor



FVAM
with motor

Model	Type	Outlets max.	Output rate max. (cm ³ / stroke and outlet)	Ratio	Drive speed / speed (r / min)	Press. max. (bar)
FKGM with motor	2007	12	93 / 52 cm ³ /h 26 / 21,5 cm ³ /h 13 / 6,5 cm ³ /h	84:1 / 150:1 300:1 / 400:1 600:1 / 1200:1	1400	50
FKMS with motor	2008				1500 at 50 Hz 1800 at 60 Hz	
FVAM with motor	2030	8	30 / 22,5 cm ³ /h 16,8 cm ³ /h	420:1 / 560:1 750:1	1400	100

Manual pumps



FHX 2



AZ-2535



FHX



FHX-MX with MX

Model	Type	Output rate max. (cm³ / stroke)	Reservoir size (l)	Reservoir material	Pressure max. (bar)
FHX 2	2534	1,5	1,2	plastic, clear-sighted	300
		3			150
AZ-2535	2535	1,5	1 / 1,5 / 2 / 3 / 4	steel	150
		3			
FHX	2081	2	0,4 (kg)	Kartusche	350
FHX-MX w. progressive distributor					400

Pneumatic pump



Model	Type	Output rate max. (cm³ / stroke)	Reservoir size	Reservoir material	Compr. air (bar)
P2103	2103	2 / 4 / 6	1,2 (l)	plastic, clear-sighted	4 - 8
			1 / 1,5 / 2 / 3 / 4 (kg)	steel	

Hydraulic pumps



HP-1



HKP-1



HPM-2



HPG-2

Model	Type	Output rate (cm ³ /stroke a. outlet)	Operating pressure max. (bar)	Drive pressure (bar)	No. of outlets
HP-1	2163	0,12	280	30 - 200	3
AZ-2369	2104	1 / 2 / 4 / 6 / 10	480	25 - 160	1
HKP-1	2121	1	250	60 - 250	2
HPM-2	2574	0,2 to 2,0	250	130 - 250	1
HPG-2	2581	0,27	250	130 - 250	1
HPH-2	2574	0,0 to 1,0	250 to 350	beginning at 100 bar	1

Flow control valve



Type	Operating pressure (bar)	Pressure drop (bar)	Volume flow (l/min)	Material	Weight (kg)	Lubricant
4060	10 - 250	7	0,1 - 8	steel	1,65	Oils 10 - 1000 mm ² /s

Flow limiting device



Type	Operating pressure (bar)	Pressure drop (bar)	Volume flow (l/min)	Material	Weight (kg)	Lubricant
4365	5 - 200 (without add-ons)	≥ 5	1,15 - 3,00 (dep. on orifice disk-Ø)	steel	0,39	Oils on synt. a. mineral. basis 20 - 600 mm ² /s

Volume flow control



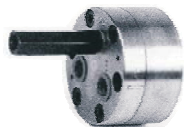
FXE 250

Model	Type	Operating press. max. (bar)	Volume flow (l/min)	Meas. volume (cm ³)	Material	Weight (kg)	Lubricant
FXE 250 with conn. plate without conn. plate	4063	250	0,05 - 12	1,2	steel (cover aluminium)	0,7 + 0,85	Oils 20 - 1000 mm ² /s
	4064						
FXE 630 with conn. plate without conn. plate	4063	630	0,05 - 12	1,2	steel (cover VA)	2,2 +1,8	Oils 20 - 1000 mm ² /s
	4064						

Subject to alterations!

Overview

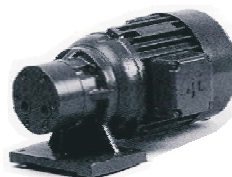
Gear pumps



Flange pumps



Foot pump



Motor pumps
horizontal



Motor pumps
vertical

Series	Pump type	Output rate (l/min)	Pressure max. (bar)
0,5	Flange- and motor pumps	0,10 - 3,00	35
0		0,25 - 2,40	50
1 to 5	Flange pumps Foot pumps Motor pumps - horizontal Motor pumps - vertical	1 - 65	30

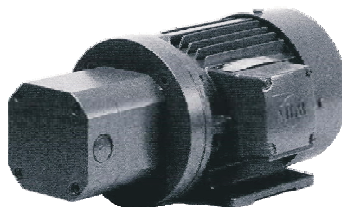
Internal gear pumps



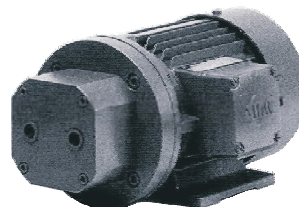
FLI and UI



FLIS and UIS



MZIR



MZI

Series	Pump type	Output rate (l/min)	Pressure max. (bar)
FLI and UI Connections radial	Flange- and foot pumps	4 - 32	100
FLIS and UIS Connections on the face			
MZIR Connections radial	Motor pumps		
MZI Connections on the face			

Barrel pumps



EFP 1



EFPM-2



HFP



Qmaxx with Lifter

Model	Type	Drive	Output rate max. (cm ³ / stroke)	Barrel size (kg)	Voltage (V)	Drive pressure (bar) / -volume (l/min)	Press. max. (bar)
EFP-1	2196	electric	0,33	20/ 25/ 50/ 200	24	-	280
EFPM-2	2197				115	-	
					230 / 400	-	
HFP	2198	hydraulic	26	already existing	-	max. 32 / max. 10	315
HFP-2U	2188		33 (at 3,2 l oil)		-	30 - 80 /	
			29 (at 4,5 l oil)		-	3 - 5	
Qmaxx	2187	electric	3000 / 9000	200	400 / 500	-	150

Lubrication pinion



Design: two-piece

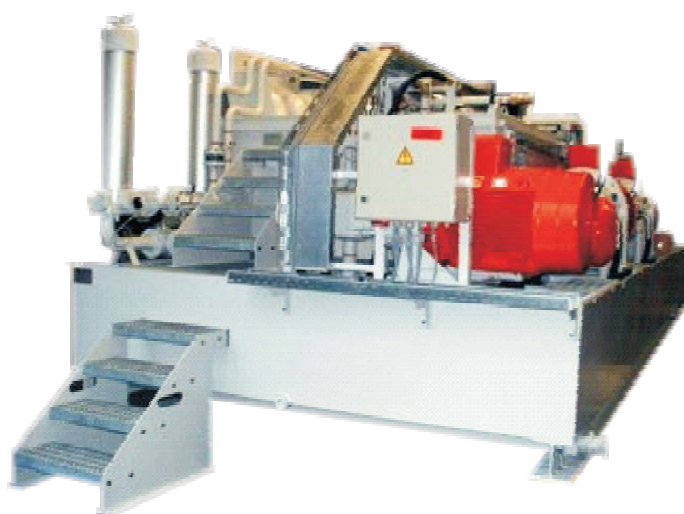
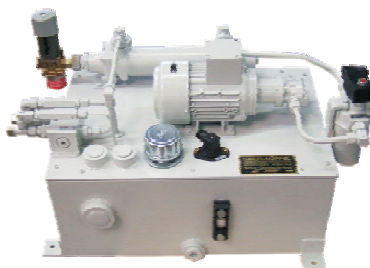
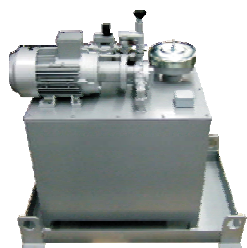
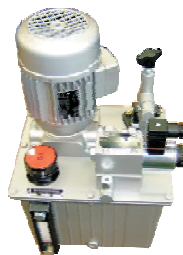
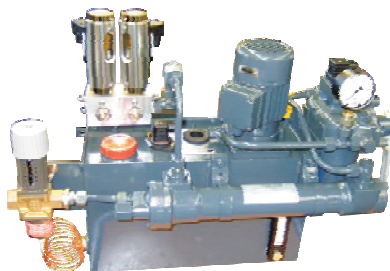
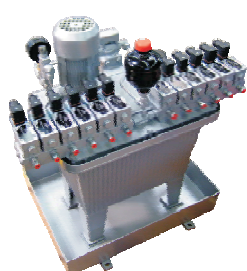
Module*	Width o. tooth**	Design	Module*	Width o. tooth**	Design	Module*	Width of tooth**	Design
4	40	single-piece	16	65 / 75 / 112 / 120 / 134 / 140	two-piece	22	130 / 140 / 170	two-piece
5	30	single-piece	18	100	single-piece	24	85	single-piece
8	35	single-piece	18	110 / 120 / 125 / 135 / 165 / 180	two-piece	24	180	two-piece
10	45	single-piece	18	340	three-piece	25	80	single-piece
10	80 / 90 / 100	two-piece	19	180	two-piece	27	180	two-piece
11	140	three-piece	20	60 / 80 / 100	single-piece	28	146	two-piece
12	55 / 80 / 100	single-piece	20	120 / 135 / 140 / 148 / 160 / 170 / 190	two-piece	30	190 / 210	two-piece
12	80 / 100 / 112 / 120	two-piece	20	230	three-piece	32	398	vierteilig
14	80	single-piece				36	220	two-piece
14	110 / 120 / 132	two-piece				48	215	two-piece
16	79,5 / 100	single-piece				50	180	two-piece
						50	340	three-piece

* Type = 4410, No. of tooth = 9 ** Width of tooth can be chosen variable acc. to use

Subject to alterations!

Overview

BEKA manufactures lubrication- and hydraulic units according to customer's request. Planning and construction are done according to the customer's specifications.



Representation exemplary

Subject to alterations!

Oil reservoir



FAZ03455-00



FAZ01918-03



FAZ03433-02



FAZ03433-00

Model	Type	Reservoir size (l)	Reservoir material
FAZ03455-00	0457	2,5	PA
FAZ01918-03		1,2	
FAZ03433-02		4,2	PE
FAZ03433-00		2	
FAZ03532-00		4	PA