

PRODUCT OVERVIEW

INDUSTRIAL LUBRICATION

revision 03/2013

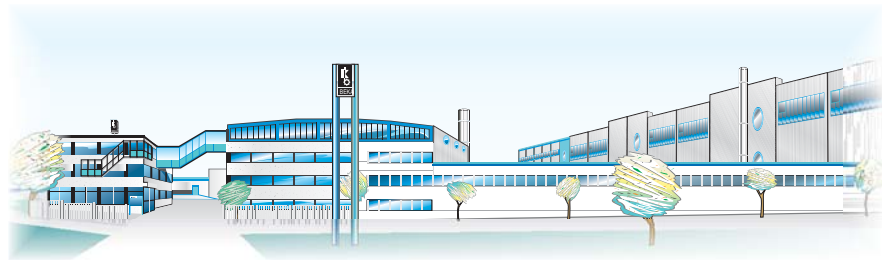


Table of contents

Single Line Lubrication Systems

Gear pump units	01-1-10-05
Pneumatic pump units	01-1-10-07
Hydraulic pump units	01-1-10-08
Manual piston pumps	
Proportioning valves, metering valves	01-1-10-09
Metering distributor block, Metering unit	01-1-10-10
Distributor strips	01-1-10-11
Single line distributor (NV, UEN, IV)	

Progressive Central Lubrication Systems

Progressive distributors	01-1-10-12
(MX-F, MX-I, LX-2, LX-3, SX-1, SX-2, SX-3, SX-5, UX, SXE-2, SXE-2R, SXE-3, SXD, SXW-1, SXW-2)	

Dual Line Central Lubrication Systems

Dual line distributors (BV, BW, BZ, UXZ)	01-1-10-13
Components for main line controlling	
Components for change-over monitoring	

Piston pumps

Oil Lubrication Pumps

Series TDM	01-1-10-14
Series A	01-1-10-15
Series D	
Series C	01-1-10-16
Series OKG - electric drive	01-1-10-17
Drive electro magnetic (K 407, K 412, K 442, K400, MP 2646)	
Drive pneumatic (P2663, P2664, P2669, P2686, PAU)	01-1-10-18
Drive mechanic single piston-tappet pump (EHS) or tappet pump (SP)	
Drive hydraulic (FAZ02142-05, FAZ02142-06)	

Grease Lubrication Pumps

Series FK (FKR, FKP, FKG, FKG-V, FKG-S, FKG-A)	01-1-10-19
Series FK and FVAM (FKGM, FKMS, FVAM) - electric drive	
Series PICO - electric drive	01-1-10-20
Series FK...-OC / FK...-EP - electric drive or rotating	01-1-10-21
Series F (F6, F-super, F-super 3)	01-1-10-22
Drive electro magnetic (MP-2643)	01-1-10-23
Drive mechanic (FHX-2, FH-2535, FHX, FHX-MX)	
Drive pneumatic (P-2103, PP-1)	
Drive hydraulic (HP-1, PH-2104, HKP-1, HPM-2, HPH-2)	01-1-10-24

Circulating Lubrication Systems

Flow control valve, Flow limiting device, Volume flow control FXE	01-1-10-25
Gear pumps	01-1-10-26
Internal gear pumps	

Special lubrication systems

Barrel pumps (EFP-1, EFPM-2, HFP-3U, Qmaxx)	01-1-10-27
Lubrication pinions for gears	01-1-10-28

PU-lubrication pinion for gearings and chains	01-1-10-28
Special units	01-1-10-29
Oil-air units	01-1-10-30
Oil-air mixing distributor	

Accessories

Oil reservoir	01-1-10-31
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Singleline Central Lubrication Systems

Product overview industrial lubrication

Table of contents

Product overview industrial lubrication

01-1-10-04 state: 03.13EN

Subject to alterations!

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1090200384

Gear pump units



EA 1,5



BEKA Xlube

Model	Type	Delivery volume (l/min)	Oper. pressure max. (bar)	Reservoir content (l)	Reservoir material	Lubricant	Operating voltage
EA 1,5 oil	2727	0,4	40	3	plastic, transparent	oil, 20 - 700 mm ² /s	400 V AC / 3~
EA 1,5 fluid grease	2728					fluid grease a/t release list	
BEKA Xlube	2712	0,25	28	1,2		oil, 20 - 700 mm ² /s or fluid grease a/t release list	230 V AC



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	Type	Delivery volume (l/min)	Oper. pressure max. (bar)	Reservoir content (l)	Reservoir material	Lubricant	Operating voltage
Super 3 EA-tronic left	2805	0,4	35	3	plastic, transparent	oil 20 - 700 mm ² /s or fluid grease acc.to release list	115 V AC 230 V AC 24 V DC
Super 3 EA-tronic right	2806				aluminium		
Super EA-tronic with 4 l-reservoir	2800			4	steel		
Super EA-tronic with 6 l-reservoir				6	plastic, transparent		
Mini EA-tronic with 3 l-reservoir				3			
Mini 2 EA-tronic	2810			1,5			

Overview

Gear pump units



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

Model	Type	Delivery volume (l/min)	Oper. pressure max. (bar)	Reservoir content (l)	Reservoir material	Lubricant	Operating voltage
ES (w/o reservoir)	2710	0,4	35	-	-	oil 20 - 700 mm ² /s or fluid grease acc.to release list	400 V AC / 3~
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	Type	Delivery volume (l/min)	Oper. pressure max. (bar)	Reservoir content (l)	Reservoir material	Lubricant	Operating voltage
EA 3 / EA 6 (without reservoir)	2700	1 or 2	35	-	-	oil 20 - 700 mm ² /s	400 V AC / 3~
EA 3 / EA 6 with 3 l-reservoir	2705			3	aluminium		
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		

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Pneumatic pump units



P30.2 to P50.8
with reservoir



2564
with 2,7 l-reservoir



P30-6
with 6 l-reservoir



P5.2 / P8.4 / P8.8
with reservoir



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

Model	Type	Delivery volume (cm ³ /stroke)	Pressure reduction	Drive press. (bar)	Reservoir content (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 2,7 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 and P50
without reservoir



P605
without reservoir



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



PPF-1
with 4 l reservoir

Model	Type	Delivery volume (cm ³ /stroke)	Pressure reduction	Drive press. (bar)	Reservoir content (l)	Reservoir material	Lubricant
P30 and P50 (without reservoir)	2564	30 or 50	1:9	5 - 10	-	-	Oil 20 - 700 mm ² /s or fluid grease acc.to release list
P605 (without reservoir)	2566	3	1:32	3 - 8			
		9,5 15	1:12 1:8				
P5.1,2 and 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



PH1-6 / PH6-6 / PH10-6
with 6 l-reservoir

Model	Type	Delivery volume (cm ³ /stroke)	Pressure reduction	Operating press. (bar)	Relief press. (bar)	Reservoir content (l)	Reservoir material	Lubric.
PH1 PH6 PH10 without reservoir	2577	1	1:2	max. 55	1 - 2	-	-	oil 20 - 700 mm ² /s or fluid gre. acc.to release list
		6						
		10	1:1					
PH1-6 PH6-6 PH10-6 with 6 l-reservoir	2578	1	1:2					
		6	1:1					
		10						

Manual piston pumps



Manual pump 2532



Manual pump 2533

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

Metering valves (dynamic system)



Size 1
with bolted connection
for pipe Ø 4



Size 1
with bolted connection
for pipe Ø 6



Size 1
with plug connection
for PA pipes



Size 1
with plug connection
for PA-pipes with chamfer

Model	Meter. volume (mm ³ /stroke)	Size	Type / Connection type		Relief press. (bar)	Operating press. (bar)	Metering medium	
Z31ZV1	10	1	4030 / bolted connection	4036 / plug-type connection for PA-pipes	4036 / plug-type connection for PA pipes and chamfers	max. 1	15 - 40	oil 50 - 700 mm ² /s or fluid grease acc.to Freigabe- liste
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 press. max. (bar)	Operating press. (bar)	Material	Metering medium
Z31DV3	30	4031	- Bolted connection	4	15 - 40	steel or V2A (1.4305)	oil 20 - 700 mm ² /s or fluid grease acc.to release list
Z31DV5	50		- Plug-type conn.				
Z31DV10	100		- for polyamide pipes				
Z31DV15	150		- elbow plug-type conn.				
Z31DV20	200		- for polyamide pipes				
Z31DDV3	30	4032	- Bolted connection	1	12 - 40	steel	oil 20 - 700 mm ² /s
Z31DDV6	60		- Plug-type conn.				
Z31DDV10	100						
Z31DDV16	160						

Overview

Metering distributor blocks


4018
Bolted connection

Size 1
40181
Plug connection

4180
Bolted connection

Size 2
4181
Plug connection

41823
Bolted connection

Size 3
41841
Plug connection

Size	Meter.- volume (mm ³ /stroke)	Type Connection type	Number of lube points	Connections		Relief press. max. (bar)	Operating press. (bar)	Metering medium
				main line	lube line			
1	10	4018 Bolted connection	1 to 10	M10x1	M8x1 pipe Ø 4 mm	3	12 - 50	oil 10 - 1000 mm ² /s or fluid grease acc.to release list
	30							
	60							
	100	40181 Plug-type connection						
	160							
100	4180 Bolted connection							
200								
300		4181 Plug-type connection						
400								
2	600							
	200	41820/ 41823/ 41824 Bolted connection	1 to 3	M12x1 or G 1/8	4	16 - 50		
400								
600								
1000	41840/ 41841/ 41842 Plug-type connection							
1500								

Metering units for direct lubrication point connection (static system)


Design A
Design B
Design C
Design D

Design	Version	Meter. volume (mm ³ /stroke)	Type	Connection type	Relief press. (bar)	Operating press. (bar)	Metering medium
A	G	30	4176	Bolted connection	max. 1	max. 35	oil
B	L						40 - 250 mm ² /s
C	T						fluid grease
D	W						n. release list
E (pivotable)	LS	100	4174	Plug-type conn. Ø 4 mm for polyamide pipes			oil
F (pivotable)	TS						40 - 250 mm ² /s

Distributor blocks



Size 1
Z32VL3 or Z33VL6



Size 1
Z32VL4 or Z33VL8



Size 1
Z32VL5 or Z33VL10

Size	Model	Outlets	Number of outlets	Type	Connection inlets	Connection outlets	Material
1	Z32VL1 - Z32VL12	one-sided	1 to 12	4020	with or without union nut (M10x1, pipe-Ø 6, with olive)	M8x1	steel, galv. or 1.4305
	Z33VL2 - Z33VL24	two-sided	2x1 to 2x12			M10x1	steel, galvanized
2	Z32VL1/2 - Z32VL10/2	one-sided	1 to 10			M10x1	
	Z33VL2/2 - Z33VL20/2	two-sided	2x1 to 2x10				

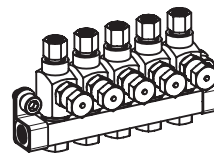
Single line distributor



NV-6



UEN



GVO-1



IV-11 / IV-1 2-outlets

Model	Type	Operating pressure max. (bar)	Number of outlets	Inlet connection	Outlet connections	Material	Metering vol. optional (mm ³ / stroke and outlet)	Metering medium
NV	4020	45	1 to 6*	M16x1,5	M8x1	Housing: GD-Zn additional part: brass	100 - 1000	oils; fluid grease NLGI 000, 00
UEN	4124	300	1 to 12**	G 1/4	M10x1	steel, ZnNi-coating acc. to DIN 50979	25 - 400	fluid grease; grease up to NLGI 2
GVO-1	4126	120	1 to 15	M10x1	M8x1		16 - 50	oil; fluid grease NLGI 000, 00
IV-1	4125	240	1 to 6	G 3/8	G 1/8	steel, galvanized	200 - 1200 adjustable	fluid grease, grease up to NLGI
				NPT 3/8"	NPT 1/8"			
IV-11				G 3/4	G 1/4			
				NPT 3/4"	NPT 1/4"		1000 - 11000 adjustable	

* no. of outlets can be enlarged when combining

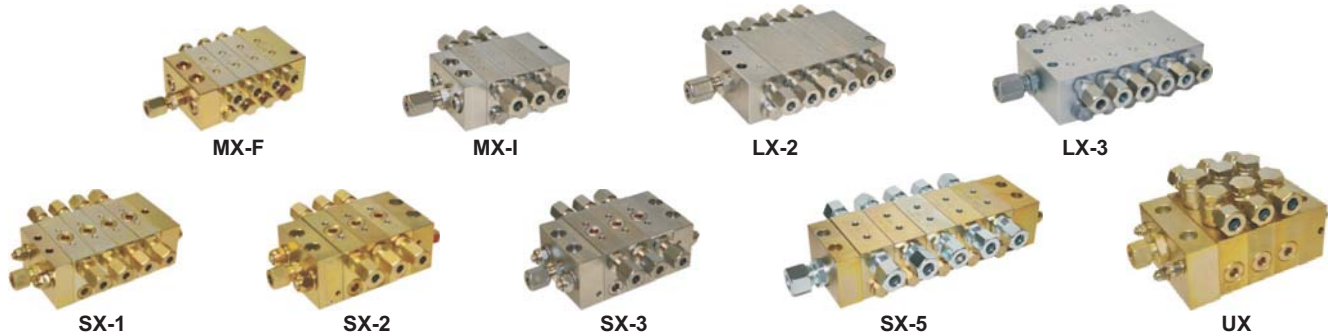
** no. of outlet can be enlarged by a connection element

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Overview

Disk construction



Model	Type	Number of rev. max. (revol./min)	Operat. press. max. (bar)	No. of outlets max.	Inlet connection	Outlet connection	Material	Metering vol. optional (mm ³ / stroke and outlet)	Meter-medium
MX-F	4010	180	300	24	M10x1	M10x1	steel, galv.	25 - 105	oils and greases up to NLGI-cl. 2
MX-I	3979	60		16			1.4404	45 - 105	
LX-2	3972	180		20			steel, ZnNi	200	
LX-3	3973	60					1.4404		
SX-1	4000	180		G 1/8	G 1/8	steel, galv.	68 - 430		
SX-2	3989	60				1.4301	75 - 470		
SX-3	4008			180	G 3/8	G 1/4	steel, galv.	1130 - 2000	
SX-5	3983	250					G 1/2		
UX	4005								

Segment construction

Sandwich construction



SXE-2 / SXE-2R (with return)

SXE-3

SXD

SXW-1

SXW-2

Model	Type	No. of revol. max. (revol./min)	Oper. press. max. (bar)	No. of outlets max.	Inlet connection	Outlet connection	Material	Meterin vol. optional (mm ³ / stroke and outlet)	Metering medium
SXE-2	4003	180	300	20	G 1/4	G 1/8	steel, galvanized	100 - 760	oils and greases up to NLGI 2
SXE-2R	3971					M11x1			
SXE-3	3985		200		G 1/4				
SXD	3998				G 3/8				
SXW-1	3977		150		G 1/4	steel, galv., connec. plate, aluminium	100 - 900		
SXW-2	3978				G 1/2		G 3/8	900 - 3700	

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Dual line distributors



BV

BW

BZ

UXZ

Model	Type	Operating pressure max. (bar)	No. of outlets max.	Connection inlet	Connection outlet	Material	Metering volume optional (mm ³ / stroke and outlet)	Metering medium
BV	3981	300	8	G 1/4	G 1/4	steel, galvanized	70 - 300	Oils and greases up to NLGI-cl. 2
BW	3980	(min. 35)					G 3/8	
BZ	4001	400		250 - 3000 (regelbar)				
UXZ	4006	150	20	G 3/8	steel, galvaniz.	1130 - 2000		

For controlling the main line

For controlling the changeover



4/3-way control valve



4/2-way control valve



Pressure changeover switch



Differential press. control device



electronic press. sensor

Component	Type	Actuation	Operating pressure (bar)	Flow volume (l/min)	Connection main line	Material	Lubricant
4/3-way control valve	4340	electrical	400	8	G 1/2 G 3/4	GG-25	oils and greases up to NLGI-Cl. 2
4/2-way control valve	4065	electro-pneumatic	350	20	G 3/8	steel, galvanized	
Pressure changeover switch	0421	hydraulic	150 / 300	8	G 1/4		
Differential pressure control device	4305	electrical	400	-	G 3/8	-	
electron. press. sensor	0421						

Overview

Series TDM



TDM-FSU



TDM-FS 4

Model	Type	No. of outlets	Delivery volume adjustable, max. (cm ³ / stroke and outlet)	Ratio	Input speed max. (rev / min)	Operating pressure max. (bar)	Suction height max. (mm)
TDM-FSU	2200	1 - 2	0,1	33:1	300 - 1800	3	300
TDM-FSU-M	2201						
TDM-FS 4	2204	3 - 4					
TDM-FS 4-M	2205						



TDM 2



TDM 4



TDM 8


 TDM 4-M
230/400 V AC / 3~

Model	Type	No. of outlets	Delivery volume adjustable, max. (cm ³ / stroke and outlet)	Ratio	Input speed max. (rev / min)	Operating pressure max. (bar)	Suction height max. (mm)
TDM 2 rotating	2210	1 - 2	0,039 - 0,088	71,5:1 - 428:1	500 - 3000	3 / 5	300
TDM 2-M electric	2211						
TDM 4 rotating	2212	3 - 4					
TDM 4-M electric	2213						
TDM 8 rotating	2214	5 - 8		92:1 - 1050:1			
TDM 8-M electric	2215						
TDM-M with motor	Power requirement: 0,09 / 0,11 kW; available for all pumps of series TDM, see TDM-FSU-M, TDM-FS 4-M, TDM 2-M, TDM 4-M, TDM 8-M						

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Series A - drive see table



Model	Type	Outlets max.	Delivery volume adjustable, max. (cm ³ / stroke and outlet)	Reduction	Input speed max. (rev / min)	Operating pressure max. (bar)	Suction height max. (mm)
AZU rotating	2240	12	0,06	8:1 / 16:1 25:1 / 50:1	200 / 400 600 / 1300	10	500
AZP oscillating	2242			1:1	40		
AF rotating	2244			18:1 / 25:1 / 36:1	500 / 600 / 1400		
AFG rotating	2248			80:1 / 160:1 / 320:1 / 640:1	2400 2800		
AFG-M elektrisch	2250			50:1 / 80:1 / 160:1 / 320:1 / 640:1	1500 / 1800		
APG-M electric	2243			400:1 / 288:1	2900 / 3000		

Series D - drive see table



Model	Type	Outlets max.	Delivery volume adjustable, max. (cm ³ / stroke and outlet)	Reduction	Input speed max. (U / min)	Operating pressure max. (bar)	Suction height max. (mm)
DU rotating	2260	12	0,15	12:1 / 18:1 / 36:1	500 - 750	50	1000
DP oscillating	2262			2:1	80		
DG rotating	2266			80:1 / 160:1 / 320:1 / 640:1	2500		
DFG rotating	2268			160:1 / 320:1 / 640:1	2500		
DFG-M electric	2270			80:1 / 160:1 / 320:1 / 640:1	Power demand 0,25 kW		

Overview

Series C - drive see table



C 1,5
oscillating



CS 3
rotating



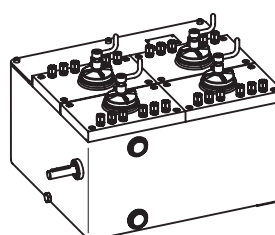
CS 3
oscillating



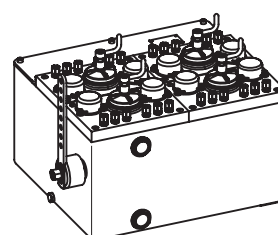
CCS 3
rotating



CCS 6
oscillating



CC 30
rotating



CCS 30
oscillating

Model	Drive	Type	Out-lets max.	Deliv. volume adjustable, max. (cm ³ / stroke and outlet)	Res. capacity (l)	Reduction	Input speed max. (rev / min)	Operating pressure max. (bar)
C 1,5	rotating	2300	12	0,15	1,8	12/18/36 or 72:1	500/ 750/ 1400/ 2600	50
	oscillating	2301				1:1 / 3,15:1	40 / 125	
CS 1,5	rotating	2302	6			12/18/36 or 72:1	500/ 750/ 1400/ 2600	
	oscillating	2303				1:1 / 3,15:1	40 / 125	
C 3	rotating	2310	12			12/18/36 or 72:1	500/ 750/ 1400/ 2600	
	oscillating	2311				1:1 / 3,15:1	40 / 125	
CS 3	rotating	2312	6			12/18/36 or 72:1	500/ 750/ 1400/ 2600	
	oscillating	2313				1:1 / 3,15:1	40 / 125	
CC 3	rotating	2320	24			12/18/36 or 72:1	500/ 750/ 1400/ 2600	
	oscillating	2321				1:1 / 3,15:1	40 / 125	
CCS 3	rotating	2322	12			12/18/36 or 72:1	500/ 750/ 1400/ 2600	
	oscillating	2323				1:1 / 3,15:1	40 / 125	
CC 6	rotating	2340	24		12/18/36 or 72:1	500/ 750/ 1400/ 2600		
	oscillating	2341			1:1 / 3,15:1	40 / 125		
CCS 6	rotating	2342	12		12/18/36 or 72:1	500/ 750/ 1400/ 2600		
	oscillating	2343			1:1 / 3,15:1	40 / 125		
CC 30	rotating	2360	48		12/18/36 or 72:1	500/ 750/ 1400/ 2600		
	oscillating	2361			1:1 / 3,15:1	40 / 125		
CCS 30	oscillating	2362	24	1:1 / 3,15:1	40 / 125			
	rotating	2363		12/18/36 or 72:1	500/ 750/ 1400/ 2600			
CC 30 M	w. motor	2364	48			80/120/180/240/360 oder 720:1	1500/ 1800	
CCS 30 M	w. motor	2368	24					

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Series OKG - electric drive



OKGGM-OC
DC

OKGGM-OC
with PSU,
115 or 230 V AC

OKGM-OC
400 V AC / 3~

OKGGM-EP
DC

OKGGM-EP
with PSU,
115 or 230 V AC

OKGM-EP
400 V AC / 3~

Model	Type	Out-lets max.	Delivery volume max. (cm ³ / stroke and outlet)	Reser. content (kg)	Reduction	Input speed motor / shaft (rev. / min)	Pump speed 1 rev. = 1 stroke (rev. / min)	Press. max. (bar)	Operating voltage
OKGGM-OC	2035	21	0,005 0,010 0,015 0,025 0,050	2,5 4,2 8,0	-	-	15	200	12 V DC
OKGGM-OC with PSU	2029								24 V DC
OKGM-OC	2017								115 V AC 230 V AC 400 V AC / 3~
OKGGM-EP	2040	3	0,06 0,12 0,17	8,0	-	-	15	350**	12 V DC
OKGGM-EP with PSU	2038								24 V DC 115 V AC 230 V AC
OKGM-EP	2011	6			(80:1)* / 150:1 / 300:1 / 400:1 / 600:1 / 1200:1	1350 at 50 Hz 1600 at 60 Hz	-		400 V AC / 3~

* Special request after consultation

** Pressure limiting valve adjusted to 280 bar,

= power supply unit

Electro magnetic drive



K-407

K-412

K-442

K-400 or MP-2646

Model	Type	Outlets	Delivery volume max. (cm ³ / stroke and outlet)	Reservoir capacity (l)	Reservoir material	Duty ratio	Operating voltage
K-407	2652	1 - 6	0,040 0,100	0,75	plastic	40 %	24 V DC
K-412	2653			1,2			
K-442	2640			4,2	plastic, transparent		
K-400	2654			without reservoir			
	2641						
MP-2646	2646			25 %		24 V DC 180 V DC	

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Subject to alterations!

Overview

Pneumatic drive



P2663



P2669

Model	Type	Outlets max.	Delivery volume max. (cm ³ / stroke and outlet)	Reservoir content (l)	Reservoir material	Pressure ratio	Drive press. (bar)
P-2663	2663	5	0,025	0,5	plastic	1:20	6 - 10
P-2664	2664		0,010	1,2			
P-2669	2669		0,010	0,5			
P-2686	2686	4	0,005 - 0,015	-	-	1:84	
			0,025 - 0,050			1:47	
PAU	2685	1	10	-	-	1:20	

Mechanic drive



EHS 0,6 / EHS 0,15 S55

Model	Type	Outlets max.	Delivery volume max. (cm ³ / stroke and outlet)	Operating press. max. (bar)	Suct. height max. (mm)
EHS 0,6	2140	4	0,15	12	300
EHS 0,15 S55	2141	1	0,56	80	-
SP 0,56	2605				
SP 1,12					

Hydraulic drive



FAZ02142-05



FAZ02142-06

Model	Type	Outlets max.	Delivery volume max. (cm ³ /stroke and outlet)	Operating pressure max. (bar)	Drive pressure (bar)
FAZ02142-05	2122	10	2 / 3 / 4,5 / 6 / 7,5	200	60 - 200
FAZ02142-06		1	6		

Subject to alterations!

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Series FK - drive see table



FKR
rotating



FKP
oscillating



FKG
rotating
vertical



FKG-V
rotating
pivotable by 90°



FKG-S
rotating
vertical



FKG-A
rotating
vertical

Model	type	Outlets max.	Delivery volume adjustable, max. (cm ³ / stroke and outlet)	Reser. capacity (kg)	Reduction	Input speed (rev / min)	Press. max. (bar)
FKR rotating	2000	12	0,1	1 1,5 2 4	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 pivotable by 90°	2004				84:1 / 150:1 / 300:1 / 400:1 / 600:1 / 1200:1		
FKG-S rotating vertical	2005				300:1 / 450:1 / 900:1		
FKG-A rotating vertical	2006				8		

Series FK and FVAM - electric drive



FKGM
with motor



FKMS
with motor



FVAM
with motor

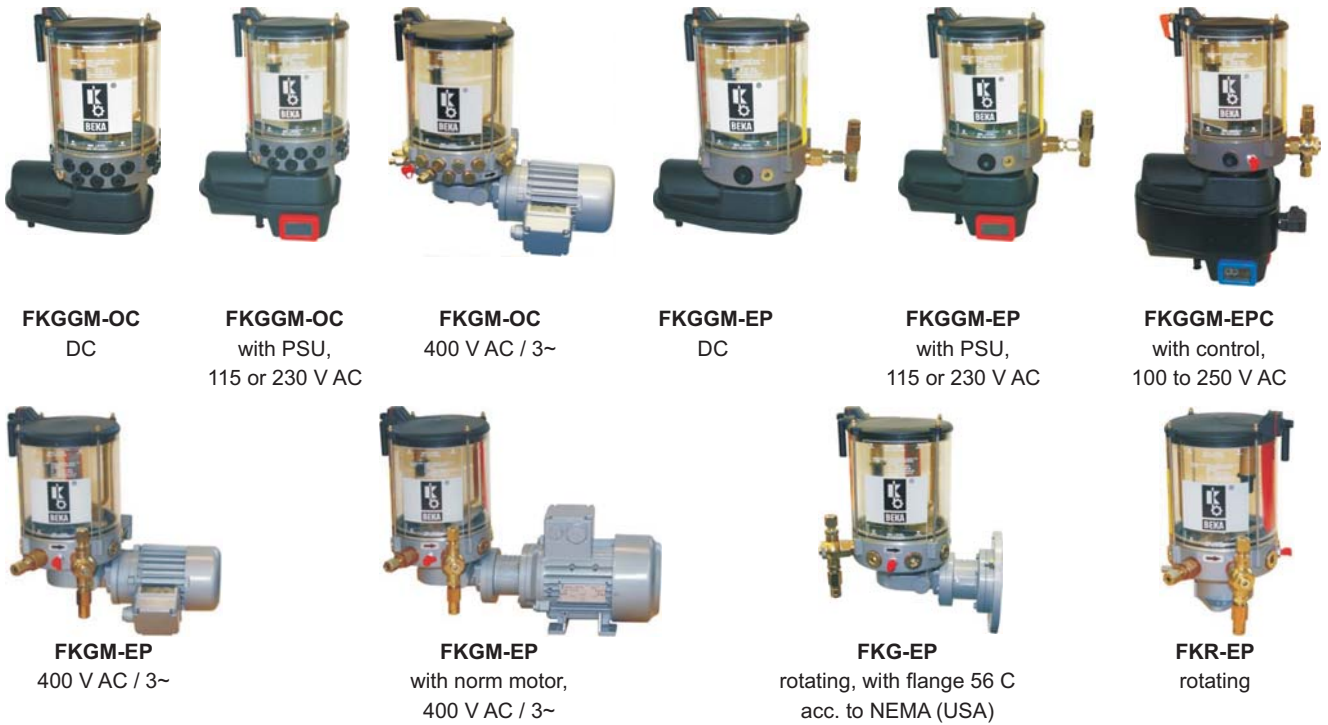
Model	Type	Outlets max.	Delivery volume adjustable, max. (cm ³ /h and outlet)	Reservoir capacity (kg)	Reduction	Input speed (rev / min)	Operating press. max. (bar)	Operating voltage
FKGM with motor	2007	12	0,1	1	84:1 / 150:1 / 300:1 / 400:1 / 600:1 / 1200:1	1420	50	230 / 400 V AC / 3~
FKMS with motor	2008			2 4		1700		400 V AC / 3~
FVAM with motor	2030	8	0,15	1 / 1,5 / 2 / 4 / 10	420:1 / 560:1 / 750:1	at 60 Hz	100	230 / 400 V AC / 3~

PICO - electric drive



Model	Type	Out-lets max.	Deliv. volume max. (cm ³ / stroke and outlet)	Reservoir content (kg)	System type	Pump speed 1 rev. = 1 stroke (rev. / min)	Operating press. max. (bar)	Operating voltage
PICO	2185	8	0,005 / 0,010 / 0,015 / 0,025 / 0,05	1,2	multi line	15	200	12 V DC 24 V DC
		2	0,12		progressive		280	

Series FK...-OC / FK...-EP - electric or rotating drive



FKGGM-OC
DC

FKGGM-OC
with PSU,
115 or 230 V AC

FKGM-OC
400 V AC / 3~

FKGGM-EP
DC

FKGGM-EP
with PSU,
115 or 230 V AC

FKGGM-EPC
with control,
100 to 250 V AC



FKGM-EP
400 V AC / 3~



FKGM-EP
with norm motor,
400 V AC / 3~



FKG-EP
rotating, with flange 56 C
acc. to NEMA (USA)



FKR-EP
rotating

Model	Type	Outlets max.	Delivering volume max. (cm ³ / stroke and outlet)	Reser. capacity (kg)	Reduction	Input speed motor / shaft (rev / min)	No. of pump rev. 1 rev. = 1 stroke (rev / min)	Press. max. (bar)	Operating voltage		
FKGGM-OC	2154	21	0,005 0,010 0,015 0,025 0,050	1,9 2,5	-	-	15	200	12 V DC		
FKGGM-OC with PSU	2024								24 V DC		
FKGM-OC	2016								115 V AC 230 V AC 400 V AC / 3~		
FKGGM-EP	2018	3	0,06 0,12 0,17	4,2 8,0	-	-	15	350**	12 V DC		
FKGGM-EP with PSU	2037								24 V DC		
FKGGM-EPC with control	2036								115 V AC 230 V AC 100 V bis 250 V AC		
FKGM-EP	2013	6	0,06 0,12 0,17	1,9 2,5 4,2 8,0	(80:1)* / 150:1 / 300:1 / 400:1 / 600:1 / 1200:1	-	-	-	400 V AC / 3~		
FKGM-EP with norm motor	2014	8							1350 at 50 Hz 1600 at 60 Hz	-	350**
FKG-EP with flange 56 C acc. to NEMA rotating									1500 at 50 Hz 1800 at 60 Hz		
FKR-EP rotating	2015	7							(2 / 4 steel)	14:1 / 19:1 / 28:1 / 57:1	-

* special requests after consultation

** Pressure limiting valve adjusted to max. 280 bar

Overview

Series F - drive see table



F6 rotating
 F6 with geared motor
 F-super with geared motor
 F-super rotating
 F-super 3 with geared motor
 F-super 3 oscillating

Model	Type	Out-lets max.	Delivery volume max. (cm ³ / stroke and outlet)	Reserv. content (kg)	Reduction	Input speed motor / shaft (rev. / min)	Pump speed 1 rev. = 1 stroke (rev. / min)	Press. max. (bar)	Operating voltage	
F6 rotating	2032	20	0,06 0,12 0,17	5 7,5 10	9:1 / 18:1 / 25:1 / 36:1 / 50:1	-	min. 1 max. 25	250	230 / 400 V AC / 3~	
F6 w. geared motor	2034				135:1 / 270:1 / 375:1 / 450:1 / 540:1 / 600:1 / 750:1 / 900:1 / 1250:1/1800:1/ 2500:1	2800 at 50 Hz 3300 at 60 Hz	-			
F-super w. geared motor	2050				88:1 / 165:1 / 280:1 / 410:1 / 600:1 / 800:1 / 1000:1	1420 at 50 Hz 1700 at 60 Hz	-			
F-super rotating	2051	21		5 10	15:1 / 22,5:1 / 45:1	-	min. 1 max. 25			
oscillating	2052				2,5:1					
F-super 3 w. geared motor	2053	3 (4=	0,56	48 100	46:1	1420 at 50 Hz 1700 at 60 Hz	-	400	230 / 400 V AC / 3~	
F-super 3 rotating	2054	Special version			15:1 / 22,5:1 / 45:1	-	min. 1 max. 25			
oscillating	2055				2,5:1					

Electro-magnetic



Model	Type	Outlets max.	Delivery volume max. (cm ³ / stroke and outlet)	Reservoir content (l)	Reservoir material	Duty ratio	Operating voltage
MP-2643	2643	1 - 6	0,015 / 0,025 / 0,035	0,4	plastic, transparent	25 %	24 V DC

Mechanic drive



FHX-2



FH-2535



FHX



FHX-MX with MX

Model	Type	Outlets	Delivery volume max. (cm ³ / stroke)	Reserv. content (l)	Reservoir material	Pressure max. (bar)
FHX-2	2534	1	1,5	1,2	plastic, transparent	300
			3			150
FH-2535	2535	1	1,5	1 / 1,5 / 2 / 3 / 4 (kg)	steel	300
			3			150
FHX	2081	1	2	0,4 (kg)	cartridge	400
FHX-MX (w. progre. distributor MX-F)						300

Pneumatic pumps



P2103



PP-1

* pressure limiting valve adjusted to 280 bar

** at drive pressure 8 bar

Model	Type	Outlets max.	Delivery volume max. (cm ³ / stroke and outlet)	Reservoir content (kg)	Reservoir material	Drive	Pressure ratio	Drive pressure (bar)
P-2103	2103	1	2	1,2	plastic, transparent	1:32	250**	4 - 8
			4					
			6		steel	1:10	80**	
PP-1	2153	3	0,06 - 0,17	1,9 / 2,5 / 4,2 / 8	plastic, transparent	-	350*	6 - 10
				2 / 4	steel			

Overview

Hydraulic drive



HP-1



PH-2104



HKP-1



HPM-2



HPH-2

Model	Type	Out-lets	Delivery vol. (cm ³ /stroke and outlet)	Reservoir content (kg)	Reservoir material	Operating press. max. (bar)	Drive pressure (bar)
HP-1	2163	1 - 6	0,06 - 0,17	1,9 / 2,5 / 4 / 8	plastic, transparent	350*	30** - 250
				2 / 4	steel		
PH-2104	2104	1	1 / 2 / 3 / 4 / 6	1,2	plastic, transparent	280*	25 - 160
				1 / 1,5 / 2 / 3 / 4	steel		
HKP-1	2120	2	1	2,5	plastic, transparent	(min. 60) - 250	85 - 275
HPM-2	2574	1	0,2 - 2,0	0,4	cartridge	100 - 220	130 - 250
HPH-2	2574		0,1 - 1,0			250 - 350	ab 100

* pressure limiting valve adjusted to 280 bar

** min. drive pressure depends on counterpressure of lubrication system

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 disc-Ø)	steel	0,39	oils ON synt. a. mineral. basis 20 - 600 mm ² /s

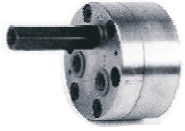
Volume flow control



Model	Type	Oper. pressure max. (bar)	Volume flow (l/min)	Meßvolume (cm ³)	Material	Weight (kg)	Lubricant
FXE 250 with conn. plate	4063	250	0,05 - 12	1,2	steel (cover Al)	0,7 + 0,85	Oils 20 - 1000 mm ² /s
without conn. plate	4064						

Overview

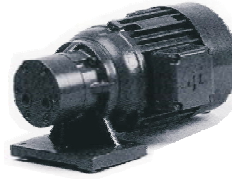
Gear pumps



Flange pumps



Foot pump



Motor pumps
horizontal



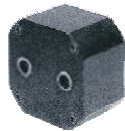
Motor pumps
vertical

Series	Pump type	Delivery volume (l/min)	Operating pressure max. (bar)
FL 0,5	flange pumps	0,06 - 3,00	35
MZ 0,5	motor pumps, horizontal		
MZE 0,5	motor pumps, vertical		
FL 0	flange pumps	0,25 - 2,40	50
MZ 0	motor pumps, vertical		
FL 1 to 5	flange pumps	1 - 65	30
U 1 to 5	foot pumps		
MZN 1 to 5	motor pumps, horizontal		
MZE 1 to 5	motor pumps, vertical		

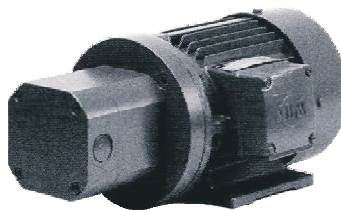
Internal gear pumps



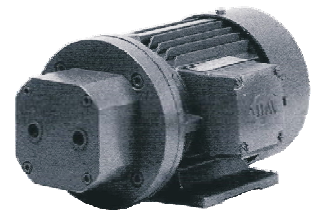
FLI and UI



FLIS and UIS

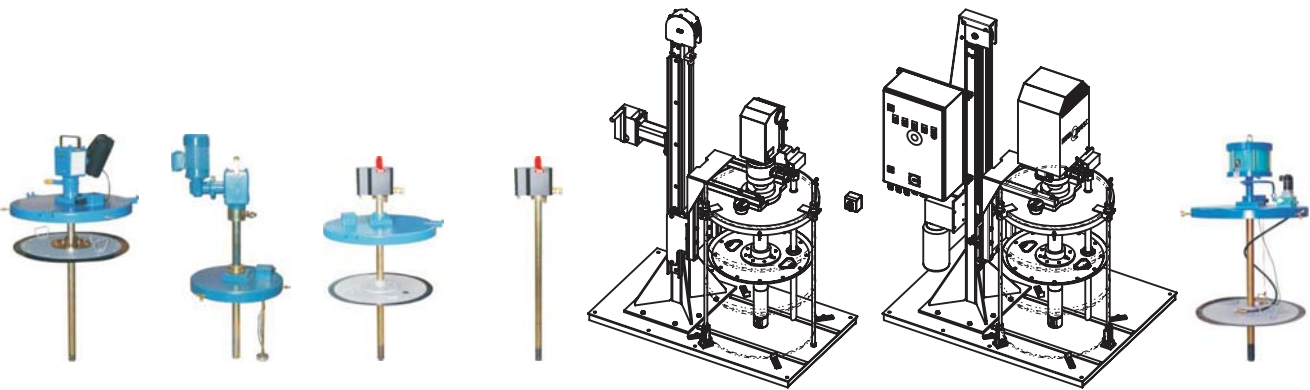


MZIR



MZI

Series	Pump type	Delivery volume (l/min)	Operating pressure max. (bar)
FLI and UI Connections radial	Flange and foot pumps	4 - 32	100
FLIS and UIS Connections at front			
MZIR Connections radial	Motor pumps		
MZI Connections at front			



EFP-1

EFPM-2

HFP-3U
(complete)

HFP-3U
(w/o pump cover,
w/o follower piston,
w/o visual level sensor)

Qmaxx 2
with hoist
with hand crank

Qmaxx
with electric hoist

PFP-...-U

Model	Type	Drive	Delivery vol. max. (cm ³ / stroke)	Barrel size (kg)	Operating voltage	Drive pressure (bar) / -volume (l/min)	Operat. press. max. (bar)
EFP-1	2196	electric	0,33	20 / 25 / 50 / 200	24 V DC	-	300*
EFPM-2	2197				115 V AC	-	
HFP-3U with or without pump cover, follower piston, level sensor	2198	hydraulic	26		-	35 bis 60 / max. 4,5	350**
Qmaxx 2	2179	hydraulic	9000 (cm ³ /min)	200	-	max. 100 / max. 40	100
Qmaxx	2187	electric	3000 / 9000 (cm ³ /min)		400/500 V AC/3~	-	
PFP-...-U	2690	pneumatic	26	20 / 25 / 50 / 200	-	4 - 6 / max. 134	300*

* pressure limiting valve adjusted to max. 280 bar

** pressure limiting valve adjusted to max. 300 bar

Overview

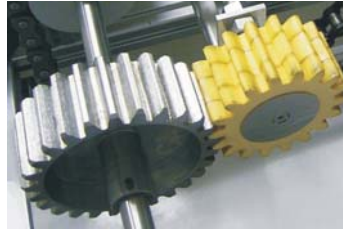
Segmented lubrication pin. for gears



Lubrication pinion for gears



PU-lube pinion for gears

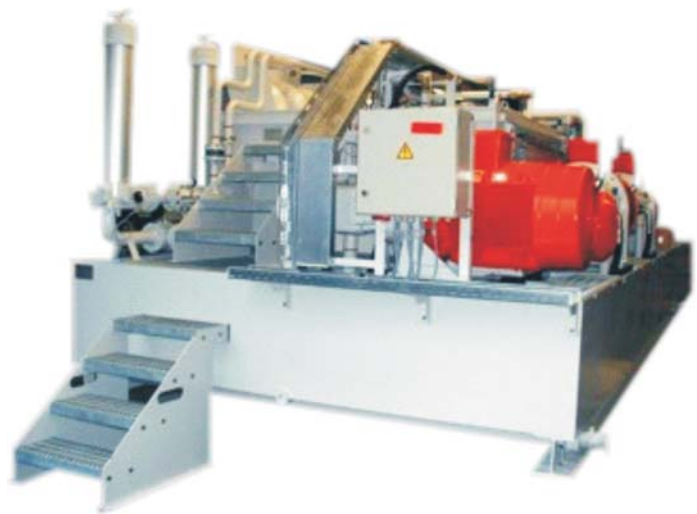


PU-lube pinion for chains



	Segmented lubrication pinion for gears	Lubrication pinion for gears	PU-lube pinion for gears	PU-lube pinion for chains
Material lubrication pinion	Aluminium, plastic retainer, shaft: steel	Aluminium Halter, Welle: Stahl	Polyurethane-foam open celled axis: steel galvanized or stainless steel	Polyurethane-foam open celled axis: steel galvanized or stainless steel
Lubricant	grease up to NLGI 2	grease up to NLGI 2	oils and greases up to NLGI 2	oils and greases up to NLGI 2
Operating temperature	-20 to +70 °C	-20 to +70 °C	-30 to +150 °C	-30 to +150 °C
Version	segmented	one part two parts three parts four parts	gears: straight sloping right sloping left	Simplex Duplex Triplex

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



Pictures are exemplary

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Subject to alterations!

Oil - air units

Pictures are in process

Drawing	Type	No. of lubrication points	Metering volume (mm ³ / stroke)	Operating voltage
FAZ03512_00	4086	1 - 6	30 / 60 / 100 / 160	115 V AC
FAZ03519_00				230 V AC
FAZ03692_00				

Oil - air mixing distributor



FAZ01822_02

FAZ02751_01

Drawing	Type	No. of lubrication points	Metering volume (mm ³ / stroke)	Operating press. (bar)		Connection		Press. connection oil - air mixture
				Metering medium	Sprayed air	Metering medium	Sprayed air	
FAZ04057_01	4299	2 / 4 / 6 / 8	10 / 20 / 30 / 50	10 - 50	3 - 6	M10x1	M10x1	pipe Ø 4 (plug-type conn.)
FAZ01822_02	4089	1 - 6	30 / 60 / 100 / 160	10 - 50	1 - 10	G 1/8	G 1/4	pipe Ø 4 or Ø 6
FAZ04185_01	4092	2 - 5	30 / 60 / 100	12 - 50	4 - 8	M10x1	G 1/4	M10x1
FAZ02751_01	4283	2 - 10	50	max. 50	1 - 5	M10x1	M10x1	pipe Ø 2,5 or Ø 4
FAZ03088_00	4089	1 - 6	30 / 60 / 100 / 160	10 - 50	1 - 10	G 1/8	G 1/4	pipe Ø 4 or Ø 6 (plug-type conn.)

Oil reservoir



FAZ03455_00



FAZ01918_03



FAZ03433_02

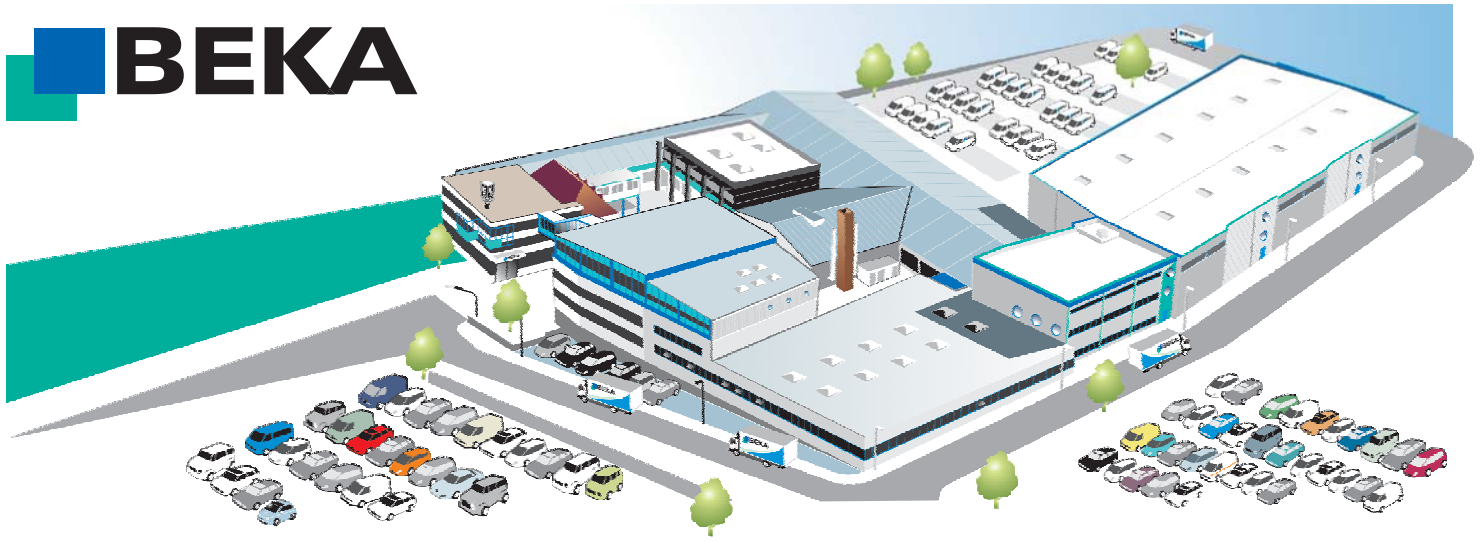


FAZ03433_00



FAZ03532_00

Model	Type	Reservoir content (l)	Reservoir material
FAZ03455_00	0457	2,5	PA
FAZ01918_03		1,2	PE
FAZ03433_02		4,2	
FAZ03433_00		2	
FAZ03532_00		4	PA



BAIER + KÖPPEL GMBH + CO KG
PRÄZISIONSAPPARATEFABRIK

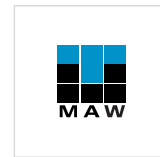
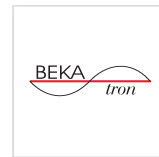
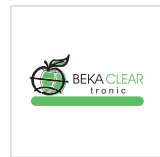
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