

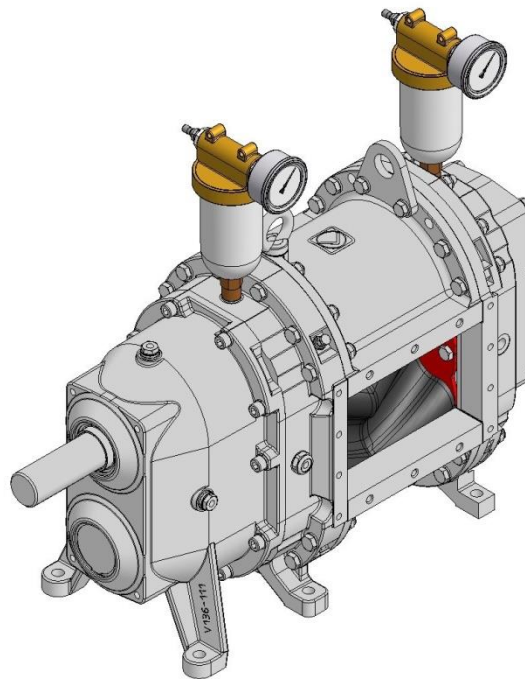


Spare Parts List

Rotary Lobe Pump

VX136QD

ENGINEERED TO WORK



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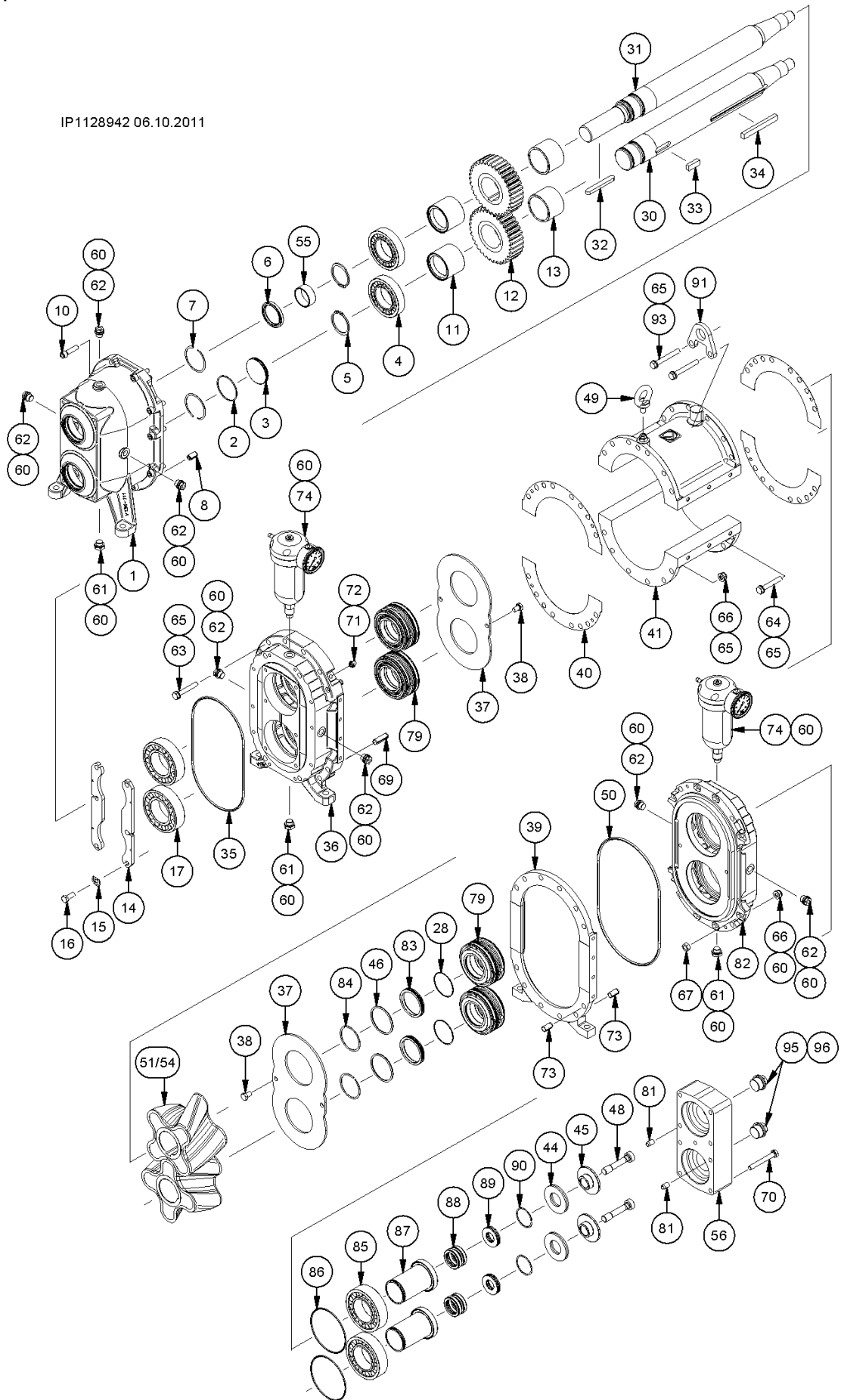
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Exploded view

IP1128942 06.10.2011



Gearbox housing and accessories

Position 1-17

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
1	PGP.B111.T1	Gear box housing				1	1	1	1	1	1
2	DOR.086	O-ring	59 x 3	NBR; for motor shaft		1	1	1	1	1	1
	DOR.086.VI	O-ring	59 x 3	FPM; for motor shaft		1	1	1	1	1	1
3	PRS.B108	Plug disk for gear box housing		For motor shaft		1	1	1	1	1	1
4	NLG.029	Cylindrical roller bearing	ø55 x ø100			2	2	2	2	2	2
5	NSR.010	Retaining ring	AS 55 x 3	DIN 471		2	2	2	2	2	2
For motor shaft											
6	DWD.060.HNB	Radial shaft seal ring	50 x 65 x 7	HNBR		1	1	1	1	1	1
	DWD.058.VI	Radial shaft seal ring	50 x 65 x 7	FPM							
For PTO shaft											
6	DWD.060.HNB	Radial shaft seal ring	50 x 65 x 7	HNBR		2	2	2	2	2	2
	DWD.058.VI	Radial shaft seal ring	50 x 65 x 7	FPM							
7	NSR.034	Circlip	65 x 3.8 x 0.82			2	2	2	2	2	2
8	NSP.023	Spring pin	13 x 22	ISO 8752		4	4	4	4	4	4
	NSP.025	Spring pin	8 x 24	ISO 8752		4	4	4	4	4	4
9	NFR.003	Lock washer	ø10	DIN 127		16	16	16	16	16	16
10	NSI.001	Cylinder head bolt	M10 x 40	DIN 912		10	10	10	10	10	10
11	PRS.B006	Spacer sleeve		Floating bearing		2	2	2	2	2	2
12	PZH.003	Gear				2	2	2	2	2	2
13	PRS.B005	Spacer sleeve		Fixed bearing		2	2	2	2	2	2
14	PFL.B010	Fixing plate for bearing				2	2	2	2	2	2
15	NUS.066	Locking plate	10.5 mm	DIN 432		6	6	6	6	6	6
16	NSK.027	Hexagon head bolt	M10 x 25	DIN 933		6	6	6	6	6	6
17	NLG.026	Spherical roller bearing	22212 E1			2	2	2	2	2	2
	NLG.026.T1	Spherical roller bearing	22212 E	(Option)							
28	DOR.041	O-ring	60 x 2	NBR		2	2	2	2	2	2
	DOR.041.VI	O-ring	60 x 2	FPM							

Motor shaft

Position 30-32

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
30	PWL.B007	Motor shaft	VX136-70-MK-QD	Short		1	-	-	-	-	-
	PWL.B008	Motor shaft	VX136-105-MK-QD	Short		-	1	-	-	-	-
	PWL.B009	Motor shaft	VX136-140-MK-QD	Short		-	-	1	-	-	-
	PWL.B010	Motor shaft	VX136-210-MK-QD	Short		-	-	-	1	-	-
	PWL.B011	Motor shaft	VX136-280-MK-QD	Short		-	-	-	-	1	-
	PWL.B012	Motor shaft	VX136-420-MK-QD	Short		-	-	-	-	-	1
31	PWL.B001	Motor shaft	VX136-70-MK-QD	Long		1	-	-	-	-	-
	PWL.B002	Motor shaft	VX136-105-ML-QD	Long		-	1	-	-	-	-
	PWL.B003	Motor shaft	VX136-140-ML-QD	Long		-	-	1	-	-	-
	PWL.B004	Motor shaft	VX136-210-ML-QD	Long		-	-	-	1	-	-
	PWL.B005	Motor shaft	VX136-280-ML-QD	Long		-	-	-	-	1	-
	PWL.B006	Motor shaft	VX136-420-ML-QD	Long		-	-	-	-	-	1
	PWL.B001.H	Hollow shaft ⁽⁷⁾	VX136-70-MH-QD			1	-	-	-	-	-
	PWL.B002.H	Hollow shaft ⁽⁷⁾	VX136-105-MH-QD			-	1	-	-	-	-
	PWL.B003.H	Hollow shaft ⁽⁷⁾	VX136-140-MH-QD			-	-	1	-	-	-
	PWL.B004.H	Hollow shaft ⁽⁷⁾	VX136-210-MH-QD			-	-	-	1	-	-
32	NPF.046	Fitting key	A 12 x 8 x 90	For motor shaft long		1	1	1	1	1	1

⁽⁷⁾ for hydraulic motor

PTO shaft**Position 30/ 31**

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
30/31	PWL.B013	PTO shaft	VX136-70-S-QD			2	-	-	-	-	-
	PWL.B014	PTO shaft	VX136-105-S-QD			-	2	-	-	-	-
	PWL.B015	PTO shaft	VX136-140-S-QD			-	-	2	-	-	-
	PWL.B016	PTO shaft	VX136-210-S-QD			-	-	-	2	-	-
	PWL.B017	PTO shaft	VX136-280-S-QD			-	-	-	-	2	-
	PWL.B018	PTO shaft	VX136-420-S-QD			-	-	-	-	-	2

Fitting key**Position 33-34**

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
33	NPF.022	Fitting key	B 14 x 9 x 35	DIN 6885		2	2	2	2	2	2
34	NPF.010	Fitting key	B 14 x 9 x 28			2	-	-	-	-	-
	NPF.011	Fitting key	B 14 x 9 x 56			-	2	-	2	2	2
	NPF.023	Fitting key	B 14 x 9 x 90			-	-	-	-	4	-
	NPF.013	Fitting key	B 14 x 9 x 100			-	-	2	-	-	2
	NPF.012	Fitting key	B 14 x 9 x 110			-	-	-	2	-	4

Bearing seal housing + accessories**Position 35-36**

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
35	DOR.035	O-ring	245 x 5	NBR		1	1	1	1	1	1
	DOR.035.VI	O-ring	245 x 5	FPM							
36	PGP.B110.T1	Bearing cover				1	1	1	1	1	1
	PGP.B110.T2	Bearing cover		Option: intermediate flange							

Wear plate**Position 37-38**

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
37	PFL.B009	Wear plate				2	2	2	2	2	2
	PFL.B009.G1	Wear plate		Coated with tungsten carbide							
38	NSK.025.EE	Hexagon head bolt	M 10 x 16	DIN 933		4	4	4	4	4	4

Cover flange**Position 39**

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
39	PGP.B004.T1	Ring flange				1	1	1	1	1	1

Gasket for pump housing segment**Position 40**

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
40	DAD.007	Gasket		Asbestos-free		4	4	4	4	6	6

Pump housing segment

Position 41

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
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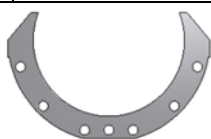


41	PGP.015	Pump housing segment	70	0.6025		2	-	-	-	-	-
	PGP.100	Pump housing segment	105	0.6025		-	2	-	-	-	-
	PGP.013	Pump housing segment	140	0.6025		-	-	2	-	4	-
	PGP.014	Pump housing segment	210	0.6025		-	-	-	2	-	4
	PGP.015.G1	Pump housing segment	70	Tungsten carbide coated		2	-	-	-	-	-
	PGP.100.G1	Pump housing segment	105	Tungsten carbide coated		-	2	-	-	-	-
	PGP.013.G1	Pump housing segment	140	Tungsten carbide coated		-	-	2	-	4	-
	PGP.014.G1	Pump housing segment	210	Tungsten carbide coated		-	-	-	2	-	4
	PGP.015.G2	Pump housing segment	70	EN-JS-1100 (ADI)		2	-	-	-	-	-
	PGP.100.G2	Pump housing segment	105	EN-JS-1100 (ADI)		-	2	-	-	-	-
	PGP.013.G2	Pump housing segment	140	EN-JS-1100 (ADI)		-	-	2	-	4	-
	PGP.014.G2	Pump housing segment	210	EN-JS-1100 (ADI)		-	-	-	2	-	4



Injection A

41	PGP0084	Pump housing segment	70	0.6025		2	-	-	-	-	-
	PGP0085	Pump housing segment	105	0.6025		-	2	-	-	-	-
	PGP0081	Pump housing segment	140	0.6025		-	-	2	-	4	-
	PGP0083	Pump housing segment	210	0.6025		-	-	-	2	-	4
	PGP0198	Pump housing segment	70	Tungsten carbide coated		2	-	-	-	-	-
	PGP0119	Pump housing segment	105	Tungsten carbide coated		-	2	-	-	-	-
	PGP0121	Pump housing segment	140	Tungsten carbide coated		-	-	2	-	4	-
	PGP0109	Pump housing segment	70	EN-JS-1100 (ADI)		2	-	-	-	-	-
	PGP0107	Pump housing segment	105	EN-JS-1100 (ADI)		-	2	-	-	-	-
	PGP0110	Pump housing segment	140	EN-JS-1100 (ADI)		-	-	2	-	4	-
	PGP0111	Pump housing segment	210	EN-JS-1100 (ADI)		-	-	-	2	-	4

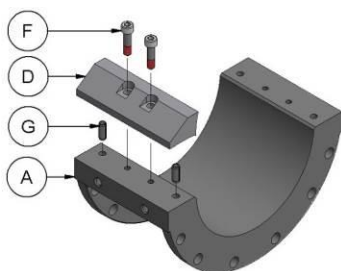


Injection S

41	PGP.B122	Pump housing segment	70	0.6025		2	-	-	-	-	-
	PGP.B123	Pump housing segment	105	0.6025		-	2	-	-	-	-
	PGP.B120	Pump housing segment	140	0.6025		-	-	2	-	4	-
	PGP.B121	Pump housing segment	210	0.6025		-	-	-	2	-	4
	PGP.B122.G1	Pump housing segment	70	Tungsten carbide coated		2	-	-	-	-	-
	PGP.B123.G1	Pump housing segment	105	Tungsten carbide coated		-	2	-	-	-	-
	PGP.B120.G1	Pump housing segment	140	Tungsten carbide coated		-	-	2	-	4	-
	PGP.B121.G1	Pump housing segment	210	Tungsten carbide coated		-	-	-	2	-	4
	PGP.B122.G2	Pump housing segment	70	EN-JS-1100 (ADI)		2	-	-	-	-	-
	PGP.B123.G2	Pump housing segment	105	EN-JS-1100 (ADI)		-	2	-	-	-	-
	PGP.B120.G2	Pump housing segment	140	EN-JS-1100 (ADI)		-	-	2	-	4	-
	PGP.B121.G2	Pump housing segment	210	EN-JS-1100 (ADI)		-	-	-	2	-	4

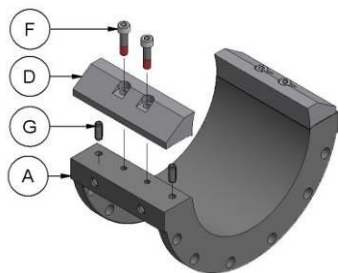
Injection module pump housing segment without radial wear plate

Position 41



Injection A

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
A	PGP0302	Pump housing segment	70			2	-	-	-	-	-
	PGP0300	Pump housing segment	105			-	2	-	-	-	-
	PGP0298	Pump housing segment	140			-	-	2	-	4	-
	PGP0304	Pump housing segment	210			-	-	-	2	-	4
D	PGP1023	Injection Module	70			2	-	-	-	-	-
	PGP1024	Injection Module	105			-	2	-	-	-	-
	PGP1025	Injection Module	140			-	-	2	-	4	-
	PGP1026	Injection Module	210			-	-	-	2	-	4
F	NSI0207	Cylinder head bolt	M 8 x 30 mm	ISO 4762		4	4	4	4	8	8
G	NSP0019	Spring pin	8 mm x 20 mm	ISO 13337		4	4	4	4	8	8

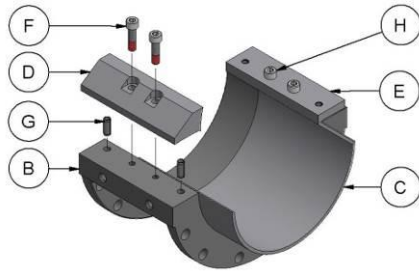


Injection S

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
A	PGP0302	Pump housing segment	70			2	-	-	-	-	-
	PGP0300	Pump housing segment	105			-	2	-	-	-	-
	PGP0298	Pump housing segment	140			-	-	2	-	4	-
	PGP0304	Pump housing segment	210			-	-	-	2	-	4
D	PGP1023	Injection Module	70			4	-	-	-	-	-
	PGP1024	Injection Module	105			-	4	-	-	-	-
	PGP1025	Injection Module	140			-	-	4	-	8	-
	PGP1026	Injection Module	210			-	-	-	4	-	8
F	NSI0207	Cylinder head bolt	M 8 x 30 mm	ISO 4762		8	8	8	8	16	16
G	NSP0019	Spring pin	8 mm x 20 mm	ISO 13337		8	8	8	8	16	16

Injection module pump housing segment with radial wear plate

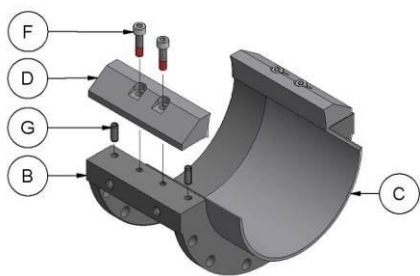
Position 41



Injection A

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
B	PGP0303	Pump housing segment	70	Radial wear plate		2	-	-	-	-	-
	PGP0301	Pump housing segment	105	Radial wear plate		-	2	-	-	-	-
	PGP0299	Pump housing segment	140	Radial wear plate		-	-	2	-	4	-
	PGP0305	Pump housing segment	210	Radial wear plate		-	-	-	2	-	4
C	PFL0145	Wear plate	70	Radial		2	-	-	-	-	-
	PFL0147	Wear plate	105	Radial		-	2	-	-	-	-
	RFL3943	Wear plate	140	Radial		-	-	2	-	2	-
	PFL0148	Wear plate	210	Radial		-	-	-	2	-	2
D	PGP1023	Injection Module	70			2	-	-	-	-	-
	PGP1024	Injection Module	105			-	2	-	-	-	-
	PGP1025	Injection Module	140			-	-	2	-	4	-
	PGP1026	Injection Module	210			-	-	-	2	-	4
E	PGP0556	Module, straight	70			2	-	-	-	-	-
	PGP0557	Module, straight	105			-	2	-	-	-	-
	PGP0558	Module, straight	140			-	-	2	-	4	-
	PGP0559	Module, straight	210			-	-	-	2	-	4
F	NSI0207	Cylinder head bolt	M 8 x 30 mm	ISO 4762		4	4	4	4	8	8
G	NSP0019	Spring pin	8 mm x 20 mm	ISO 13337		8	8	8	8	16	16
H	NSI0206	Cylinder head bolt	M 8 x 20 mm	ISO 4762		4	4	4	4	8	8

Continuation see next page



Injection S

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
B	PGP0303	Pump housing segment	70	Radial wear plate		2	-	-	-	-	-
	PGP0301	Pump housing segment	105	Radial wear plate		-	2	-	-	-	-
	PGP0299	Pump housing segment	140	Radial wear plate		-	-	2	-	4	-
	PGP0305	Pump housing segment	210	Radial wear plate		-	-	-	2	-	4
C	PFL0145	Wear plate	70	Radial		2	-	-	-	-	-
	PFL0147	Wear plate	105	Radial		-	2	-	-	-	-
	RFL3943	Wear plate	140	Radial		-	-	2	-	2	-
	PFL0148	Wear plate	210	Radial		-	-	-	2	-	2
D	PGP1023	Injection Module	70			4	-	-	-	-	-
	PGP1024	Injection Module	105			-	4	-	-	-	-
	PGP1025	Injection Module	140			-	-	4	-	8	-
	PGP1026	Injection Module	210			-	-	-	4	-	8
F	NSI0207	Cylinder head bolt	M 8 x 30 mm	ISO 4762		8	8	8	8	16	16
G	NSP0019	Spring pin	8 mm x 20 mm	ISO 13337		8	8	8	8	16	16

Preload

Position 44-48

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
44	NTF.002	Disk spring	71 x 36 x 4	DIN 2093		4	4	4	4	4	4
45	PRS.B117	Pressure disk				2	2	2	2	2	2
46	DOR.043	O-ring	64 x 4	NBR		2	2	2	2	2	2
	DOR.043.VI	O-ring	64 x 4	FPM							
48	PRS.102	Strain bolt	M16			2	2	2	2	2	2

Lifting eye bolt

Position 49

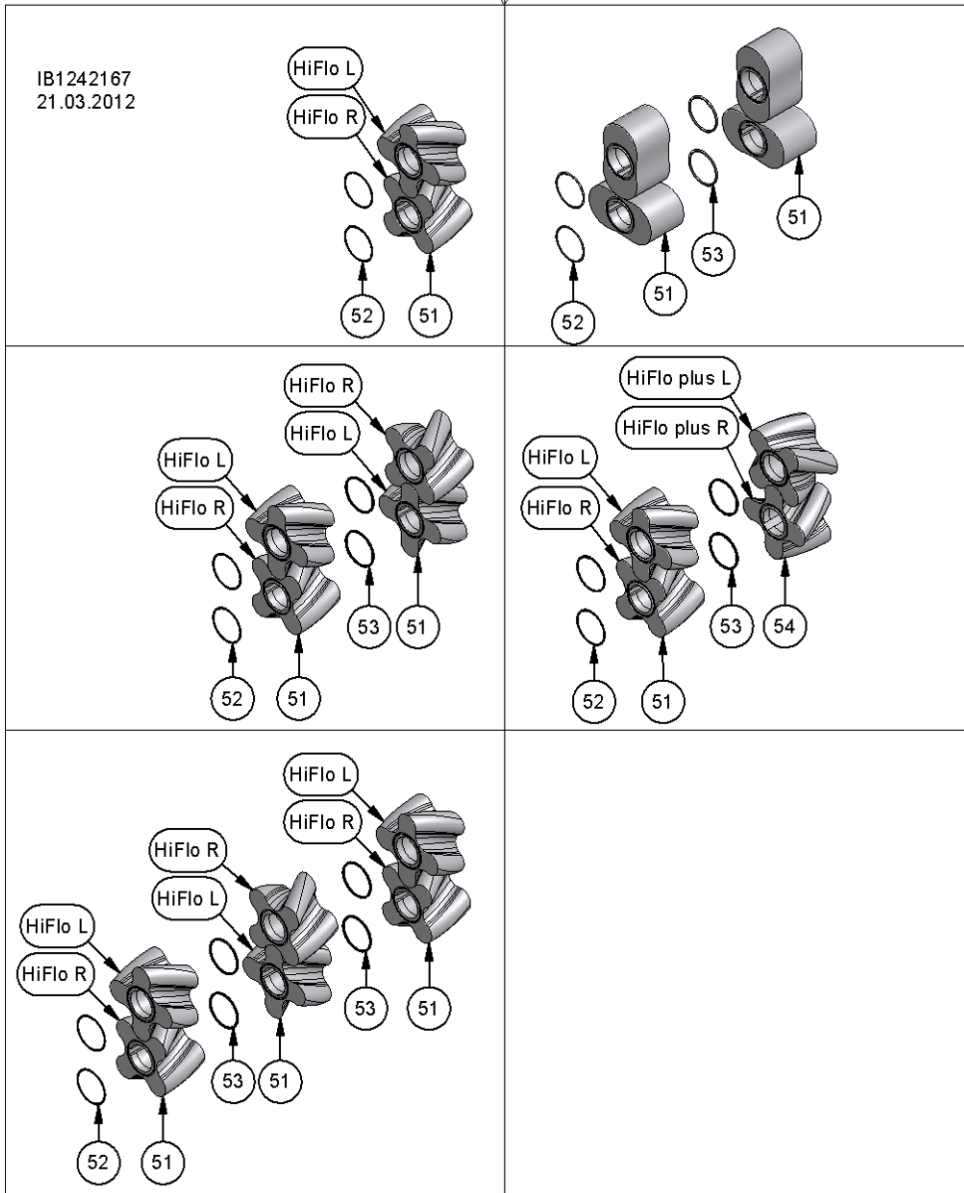
Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
49	NKS.006	Lifting eye bolt	M12	DIN 580		1	1	1	1	2	2

O-ring

Position 50

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
50	DOR.051	O-ring	280 x 6	NBR							
	DOR.051.EP	O-ring	280 x 6	EPDM							
	DOR.051.VI	O-ring	280 x 6	FPM							
	DOR.051.PT	O-ring	280 x 6	Silicone FEP coated							
						1	1	1	1	1	1

Rotary lobes



HiFlo
Position 51+54

HiFlo SBR

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
51	PKB.B101.TL	Rotary lobe	70-4K45-L HiFlo	SBR		1	-	-	-	-	-
	PKB.B101.TR	Rotary lobe	70-4K45-R HiFlo	SBR		1	-	-	-	-	-
	PKB.B102.TL	Rotary lobe	105-4K45-L HiFlo	SBR		-	1	-	2 (1)	-	-
	PKB.B102.TR	Rotary lobe	105-4K45-R HiFlo	SBR		-	1	-	2 (1)	-	-
	PKB.B103.TL	Rotary lobe	140-4K45-L HiFlo	SBR		-	-	1	-	2 (1)	3
	PKB.B103.TR	Rotary lobe	140-4K45-R HiFlo	SBR		-	-	1	-	2 (1)	3
54		Rotary lobe	105-4K45-L HiFloplus	SBR		-	-	-	(1)	-	-
		Rotary lobe	105-4K45-R HiFloplus	SBR		-	-	-	(1)	-	-
		Rotary lobe	140-4K45-L HiFloplus	SBR		-	-	-	-	(1)	-
		Rotary lobe	140-4K45-R HiFloplus	SBR		-	-	-	-	(1)	-

HiFlo NBR

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
51	PKB.B101.TL.NB	Rotary lobe	70-4K45-L HiFlo	NBR		1	-	-	-	-	-
	PKB.B101.TR.NB	Rotary lobe	70-4K45-R HiFlo	NBR		1	-	-	-	-	-
	PKB.B102.TL.NB	Rotary lobe	105-4K45-L HiFlo	NBR		-	1	-	2 (1)	-	-
	PKB.B102.TR.NB	Rotary lobe	105-4K45-R HiFlo	NBR		-	1	-	2 (1)	-	-
	PKB.B103.TL.NB	Rotary lobe	140-4K45-L HiFlo	NBR		-	-	1	-	2 (1)	3
	PKB.B103.TR.NB	Rotary lobe	140-4K45-R HiFlo	NBR		-	-	1	-	2 (1)	3
	PKB.B101.TL.NBW	Rotary lobe	70-4K45-L HiFlo	NBR white		1	-	-	-	-	-
	PKB.B101.TR.NBW	Rotary lobe	70-4K45-R HiFlo	NBR white		1	-	-	-	-	-
	PKB.B102.TL.NBW	Rotary lobe	105-4K45-L HiFlo	NBR white		-	1	-	2 (1)	-	-
	PKB.B102.TR.NBW	Rotary lobe	105-4K45-R HiFlo	NBR white		-	1	-	2 (1)	-	-
	PKB.B103.TL.NBW	Rotary lobe	140-4K45-L HiFlo	NBR white		-	-	1	-	2 (1)	3
	PKB.B103.TR.NBW	Rotary lobe	140-4K45-R HiFlo	NBR white		-	-	1	-	2 (1)	3
54	PKB0011	Rotary lobe	105-4K45-L HiFloplus	NBR		-	-	-	(1)	-	-
	PKB0012	Rotary lobe	105-4K45-R HiFloplus	NBR		-	-	-	(1)	-	-
	PKB0009	Rotary lobe	140-4K45-L HiFloplus	NBR		-	-	-	-	(1)	-
	PKB0010	Rotary lobe	140-4K45-R HiFloplus	NBR		-	-	-	-	(1)	-
		Rotary lobe	105-4K45-L HiFloplus	NBR white		-	-	-	(1)	-	-
		Rotary lobe	105-4K45-R HiFloplus	NBR white		-	-	-	(1)	-	-
		Rotary lobe	140-4K45-L HiFloplus	NBR white		-	-	-	-	(1)	-
	Rotary lobe	140-4K45-R HiFloplus	NBR white		-	-	-	-	(1)	-	

() quantity for HiFlo plus

HiFlo EPDM

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
51	PKB.B101.TL.SL	Rotary lobe	70-4K45-L HiFlo	EPDM-SL		1	-	-	-	-	-
	PKB.B101.TR.SL	Rotary lobe	70-4K45-R HiFlo	EPDM-SL		1	-	-	-	-	-
	PKB.B102.TL.SL	Rotary lobe	105-4K45-L HiFlo	EPDM-SL		-	1	-	2 (1)	-	-
	PKB.B102.TR.SL	Rotary lobe	105-4K45-R HiFlo	EPDM-SL		-	1	-	2 (1)	-	-
	PKB.B103.TL.SL	Rotary lobe	140-4K45-L HiFlo	EPDM-SL		-	-	1	-	2 (1)	3
	PKB.B103.TR.SL	Rotary lobe	140-4K45-R HiFlo	EPDM-SL		-	-	1	-	2 (1)	3
	PKB.B101.TL.EPW	Rotary lobe	70-4K45-L HiFlo	EPDM white		1	-	-	-	-	-
	PKB.B101.TR.EPW	Rotary lobe	70-4K45-R HiFlo	EPDM white		1	-	-	-	-	-
	PKB.B102.TL.EPW	Rotary lobe	105-4K45-L HiFlo	EPDM white		-	1	-	2 (1)	-	-
	PKB.B102.TR.EPW	Rotary lobe	105-4K45-R HiFlo	EPDM white		-	1	-	2 (1)	-	-
	PKB.B103.TL.EPW	Rotary lobe	140-4K45-L HiFlo	EPDM white		-	-	1	-	2 (1)	3
	PKB.B103.TR.EPW	Rotary lobe	140-4K45-R HiFlo	EPDM white		-	-	1	-	2 (1)	3
54		Rotary lobe	105-4K45-L HiFloplus	EPDM-SL		-	-	-	(1)	-	-
		Rotary lobe	105-4K45-R HiFloplus	EPDM-SL		-	-	-	(1)	-	-
	PKB0013	Rotary lobe	140-4K45-L HiFloplus	EPDM-SL		-	-	-	-	(1)	-
	PKB0014	Rotary lobe	140-4K45-R HiFloplus	EPDM-SL		-	-	-	-	(1)	-
		Rotary lobe	105-4K45-L HiFloplus	EPDM white		-	-	-	(1)	-	-
		Rotary lobe	105-4K45-R HiFloplus	EPDM white		-	-	-	(1)	-	-
		Rotary lobe	140-4K45-L HiFloplus	EPDM white		-	-	-	-	(1)	-
		Rotary lobe	140-4K45-R HiFloplus	EPDM white		-	-	-	-	(1)	-

HiFlo FPM

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
51	PKB.B101.TL.VI	Rotary lobe	70-4K45-L HiFlo	FPM ⁽¹⁾		1	-	-	-	-	-
	PKB.B101.TR.VI	Rotary lobe	70-4K45-R HiFlo	FPM ⁽¹⁾		1	-	-	-	-	-
	PKB.B102.TL.VI	Rotary lobe	105-4K45-L HiFlo	FPM ⁽¹⁾		-	1	-	2 (1)	-	-
	PKB.B102.TR.VI	Rotary lobe	105-4K45-R HiFlo	FPM ⁽¹⁾		-	1	-	2 (1)	-	-
	PKB.B103.TL.VI	Rotary lobe	140-4K45-L HiFlo	FPM ⁽¹⁾		-	-	1	-	2 (1)	3
	PKB.B103.TR.VI	Rotary lobe	140-4K45-R HiFlo	FPM ⁽¹⁾		-	-	1	-	2 (1)	3
54		Rotary lobe	105-4K45-L HiFloplus	FPM ⁽¹⁾		-	-	-	(1)	-	-
		Rotary lobe	105-4K45-R HiFloplus	FPM ⁽¹⁾		-	-	-	(1)	-	-
		Rotary lobe	140-4K45-L HiFloplus	FPM ⁽¹⁾		-	-	-	-	(1)	-
		Rotary lobe	140-4K45-R HiFloplus	FPM ⁽¹⁾		-	-	-	-	(1)	-

⁽¹⁾ max. 6 bar [87 psi], please pay attention to the admissible pressure of pump!

() quantity for HiFlo *plus*

HiFlo WEROBUST

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
51	PKB.B101.TL.PU	Rotary lobe	70-4K45-L HiFlo	WEROBUST ⁽²⁾		1	-	-	-	-	-
	PKB.B101.TR.PU	Rotary lobe	70-4K45-R HiFlo	WEROBUST ⁽²⁾		1	-	-	-	-	-
	PKB.B102.TL.PU	Rotary lobe	105-4K45-L HiFlo	WEROBUST ⁽²⁾		-	1	-	2 (1)	-	-
	PKB.B102.TR.PU	Rotary lobe	105-4K45-R HiFlo	WEROBUST ⁽²⁾		-	1	-	2 (1)	-	-
	PKB.B103.TL.PU	Rotary lobe	140-4K45-L HiFlo	WEROBUST ⁽²⁾		-	-	1	-	2 (1)	3
	PKB.B103.TR.PU	Rotary lobe	140-4K45-R HiFlo	WEROBUST ⁽²⁾		-	-	1	-	2 (1)	3
54		Rotary lobe	105-4K45-L HiFloplus	WEROBUST ⁽²⁾		-	-	-	(1)	-	-
		Rotary lobe	105-4K45-R HiFloplus	WEROBUST ⁽²⁾		-	-	-	(1)	-	-
		Rotary lobe	140-4K45-L HiFloplus	WEROBUST ⁽²⁾		-	-	-	-	(1)	-
		Rotary lobe	140-4K45-R HiFloplus	WEROBUST ⁽²⁾		-	-	-	-	(1)	-

⁽²⁾ Attention! Usable up to 50°C medium temperature, only!

HiFlo CSM Hypalon

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
51	PKB.B101.TL.CSM	Rotary lobe	70-4K45-L HiFlo	CSM		1	-	-	-	-	-
	PKB.B101.TR.CSM	Rotary lobe	70-4K45-R HiFlo	CSM		1	-	-	-	-	-
	PKB.B102.TL.CSM	Rotary lobe	105-4K45-L HiFlo	CSM		-	1	-	2 (1)	-	-
	PKB.B102.TR.CSM	Rotary lobe	105-4K45-R HiFlo	CSM		-	1	-	2 (1)	-	-
54	PKB0039	Rotary lobe	105-4K45-L HiFloplus	CSM		-	-	-	(1)	-	-
	PKB0040	Rotary lobe	105-4K45-R HiFloplus	CSM		-	-	-	(1)	-	-

() quantity for HiFlo plus

HiFlo PUR

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
51	PKD0099	Rotary lobe	105 3F60L	PUR		-	1	-	2	-	-
	PKD0100	Rotary lobe	105 3F60R	PUR		-	1	-	2	-	-
	PKD0097	Rotary lobe	140 3F60L	PUR		-	-	1	-	2	3
	PKD0098	Rotary lobe	140 3F60R	PUR		-	-	1	-	2	3

Rotary lobes; bi-lobe
Position 51

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
51	PKB.B018.Q	Rotary lobes; bi-lobe	70	NBR		2	-	-	-	-	-
	PKB.B035.Q	Rotary lobes; bi-lobe	105	NBR		-	2	-	4	-	-
	PKB.B028.Q	Rotary lobes; bi-lobe	140	NBR		-	-	2	-	4	6
	PKB.B018.QF	Rotary lobes; bi-lobe	70	NBR large rubber line		2	-	-	-	-	-
	PKB.B035.QF	Rotary lobes; bi-lobe	105	NBR large rubber line		-	2	-	4	-	-
	PKB.B018.QW	Rotary lobes; bi-lobe	70	NBR white		2	-	-	-	-	-
	PKB.B028.QW	Rotary lobes; bi-lobe	140	NBR white		-	-	2	-	4	6
	PKB.B016.Q	Rotary lobes; bi-lobe	70	SBR 70		2	-	-	-	-	-
	PKB.B033.Q	Rotary lobes; bi-lobe	105	SBR 70		-	2	-	4		
	PKB.B026.Q	Rotary lobes; bi-lobe	140	SBR 70		-	-	2	-	4	6
	PKB.B021.Q.SL	Rotary lobes; bi-lobe	70	EPDM-SL		2	-	-	-	-	-
	PKB.B034.Q.SL	Rotary lobes; bi-lobe	105	EPDM-SL		-	2	-	4	-	-
	PKB.B030.Q.SL	Rotary lobes; bi-lobe	140	EPDM-SL		-	-	2	-	4	6
	PKB.B022.Q	Rotary lobes; bi-lobe	70	FPM ⁽¹⁾		2	-	-	-	-	-
	PKB.B037.Q	Rotary lobes; bi-lobe	105	FPM ⁽¹⁾		-	2	-	4	-	-
	PKB.B031.Q	Rotary lobes; bi-lobe	140	FPM ⁽¹⁾		-	-	2	-	4	6
	PKB.B023.Q	Rotary lobes; bi-lobe	70	WEROBUST ⁽²⁾		2	-	-	-	-	-
PKB.B036.Q	Rotary lobes; bi-lobe	105	WEROBUST ⁽²⁾		-	2	-	4	-	-	
PKB.B025.Q	Rotary lobes; bi-lobe	140	WEROBUST ⁽²⁾		-	-	2	-	4	6	
51/54	PKB.B041.N1	Rotary lobe; bi-lobe ⁽³⁾	70	1.0503 nitrided (C45)		2	-	-	-	-	-
	PKB.B042.N1	Rotary lobe; bi-lobe ⁽³⁾	105	1.0503 nitrided (C45)		-	2	-	4	-	-
	PKB.B043.N1	Rotary lobe; bi-lobe ⁽³⁾	140	1.0503 nitrided (C45)		-	-	2	-	4	6
	PKB.B023.Q	Rotary lobe; bi-lobe ⁽³⁾	70	POM		2	-	-	-	-	-
	PKB.B036.Q	Rotary lobe; bi-lobe ⁽³⁾	105	POM		-	2	-	4	-	-
	PKB.B025.Q	Rotary lobe; bi-lobe ⁽³⁾	140	POM		-	-	2	-	4	6
	PKB0036	Rotary lobe; bi-lobe ⁽³⁾	70	1.7131 hardened		2	-	-	-	-	-
PKB0019	Rotary lobe; bi-lobe ⁽³⁾	105	1.7131 hardened		-	2	-	4	-	-	

⁽¹⁾ max. 6 bar [87 psi], please pay attention to the admissible pressure of pump!

⁽²⁾ Attention! Usable up to 50°C medium temperature, only!

⁽³⁾ + O-ring for solid material lobe

Solid material lobe

HiFlo

Position 51+54

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
1.0503 (steel)											
51	PKB.B104.N1.TL	Rotary lobe ⁽³⁾	70 4K45 L HiFlo	1.0503 nitrided		1	-	-	-	-	-
	PKB.B104.N1.TR	Rotary lobe ⁽³⁾	70 4K45 R HiFlo	1.0503 nitrided		1	-	-	-	-	-
	PKB.B105.N1.TL	Rotary lobe ⁽³⁾	105 4K45 L HiFlo	1.0503 nitrided		-	1	-	2 (1)	-	-
	PKB.B105.N1.TR	Rotary lobe ⁽³⁾	105 4K45 R HiFlo	1.0503 nitrided		-	1	-	2 (1)	-	-
	PKB.B106.N1.TL	Rotary lobe ⁽³⁾	140 4K45 L HiFlo	1.0503 nitrided		-	-	1	-	2 (1)	3
	PKB.B106.N1.TR	Rotary lobe ⁽³⁾	140 4K45 R HiFlo	1.0503 nitrided		-	-	1	-	2 (1)	3
54		Rotary lobe ⁽³⁾	105 4K45 L HiFloplus	1.0503 nitrided		-	-	-	(1)	-	-
		Rotary lobe ⁽³⁾	105 4K45 R HiFloplus	1.0503 nitrided		-	-	-	(1)	-	-
		Rotary lobe ⁽³⁾	140 4K45 L HiFloplus	1.0503 nitrided		-	-	-	-	(1)	-
		Rotary lobe ⁽³⁾	140 4K45 R HiFloplus	1.0503 nitrided		-	-	-	-	(1)	-
POM											
51	PKB.B101.TL.POM	Rotary lobe ⁽³⁾	70 4K45 L HiFlo	POM		1	-	-	-	-	-
	PKB.B101.TR.POM	Rotary lobe ⁽³⁾	70 4K45 R HiFlo	POM		1	-	-	-	-	-
	PKB.B102.TL.POM	Rotary lobe ⁽³⁾	105 4K45 L HiFlo	POM		-	1	-	2 (1)	-	-
	PKB.B102.TR.POM	Rotary lobe ⁽³⁾	105 4K45 R HiFlo	POM		-	1	-	2 (1)	-	-
	PKB0015	Rotary lobe ⁽³⁾	140 4K45 L HiFlo	POM		-	-	1	-	2 (1)	3
	PKB0016	Rotary lobe ⁽³⁾	140 4K45 R HiFlo	POM		-	-	1	-	2 (1)	3
54		Rotary lobe ⁽³⁾	105 4K45 L HiFloplus	POM		-	-	-	(1)	-	-
		Rotary lobe ⁽³⁾	105 4K45 R HiFloplus	POM		-	-	-	(1)	-	-
	PKB0017	Rotary lobe ⁽³⁾	140 4K45 L HiFloplus	POM		-	-	-	-	(1)	-
	PKB0018	Rotary lobe ⁽³⁾	140 4K45 R HiFloplus	POM		-	-	-	-	(1)	-
CSM											
51	PKB0020	Rotary lobe ⁽³⁾	105 3K60 L HiFlo	1.7131 hardened		-	1	-	2	-	-
	PKB0021	Rotary lobe ⁽³⁾	105 3K60 R HiFlo	1.7131 hardened		-	1	-	2	-	-
	PKB0034	Rotary lobe ⁽³⁾	140 3K60 L HiFlo	1.7131 hardened		-	-	1	-	2	3
	PKB0035	Rotary lobe ⁽³⁾	140 3K60R HiFlo	1.7131 hardened		-	-	1	-	2	3

⁽³⁾ + O-ring for solid material lobe

() quantity for HiFlo plus

O-ring for solid material rotary lobes

Position 52-53

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
52	DOR.039	O-ring ⁽⁵⁾	80 x 2.5	NBR		4	4	4	4	4	4
	DOR.039.EP	O-ring ⁽⁵⁾	80 x 2.5	EPDM							
	DOR.039.VI	O-ring ⁽⁵⁾	80 x 2.5	FPM							
	DOR.039.PT	O-ring ⁽⁵⁾	80 x 2.5	Silicone FEP coated							
53	DOR.162	O-ring ⁽⁵⁾	80 x 4	NBR		-	-	-	2	2	4
	DOR.162.EP	O-ring ⁽⁵⁾	80 x 4	EPDM							
	DOR.162.VI	O-ring ⁽⁵⁾	80 x 4	FPM							
	DOR.162.PT	O-ring ⁽⁵⁾	80 x 4	Silicone FEP coated							

⁽⁵⁾ for solid material lobe

Cover and accessories

Position 55-56

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
55	NIR.019	Inner ring	JR 45 x 50 x 20	For motor shaft		1	1	1	1	1	1
				For PTO shaft		2	2	2	2	2	2
56	PFL.B011.T5.N1	Cover				1	1	1	1	1	1

Bolts and accessories

Position 59-73

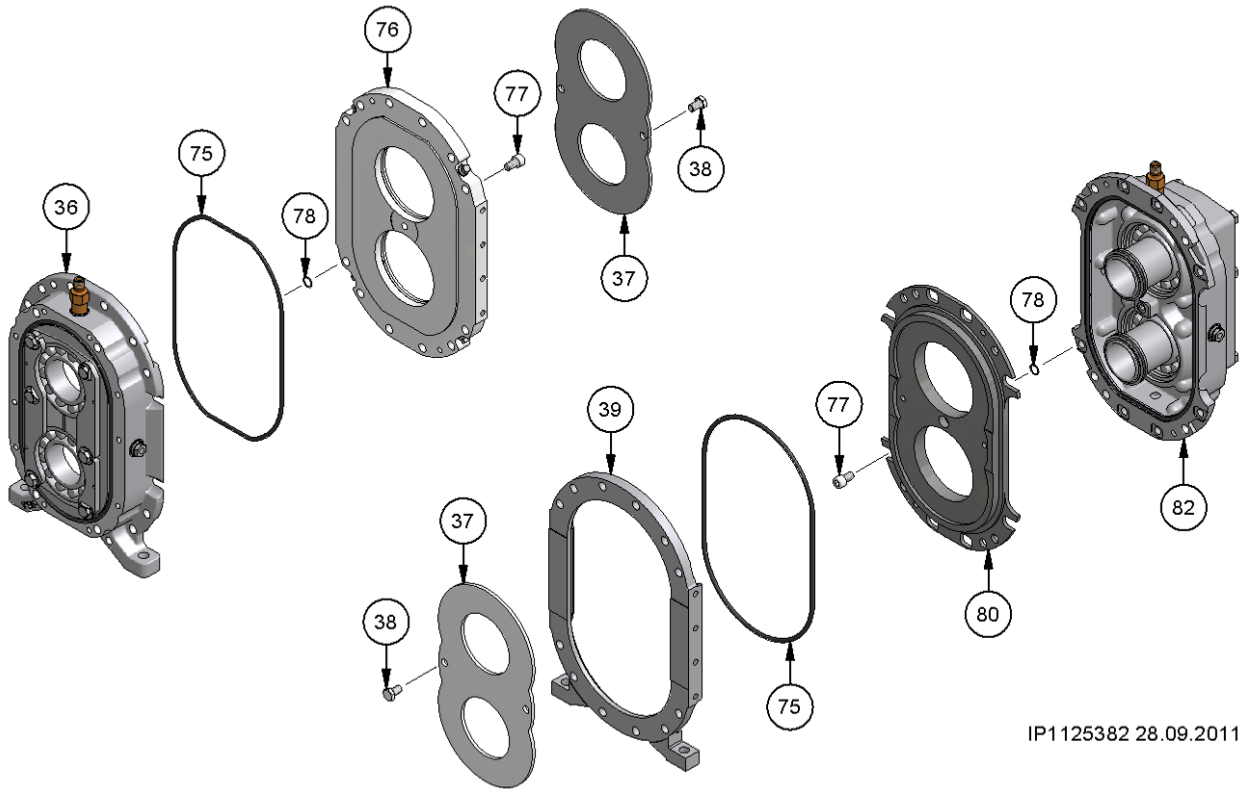
Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
60	DKR.005	Copper ring	C16 x 22 x 2	DIN 7603		10	10	10	10	10	10
61	NSK.088	Screw plug	M16 x 1.5	Magnetic		3	3	3	3	3	3
62	NSK.081	Screw plug	M16 x 1.5	DIN 910		7	7	7	7	7	7
63	NSK.072	Hexagon head bolt	M10 x 65	DIN 931		-	12	12	12	12	12
64	NSK0055	Hexagon head bolt	M10 x 65	DIN 933		-	12	12	10	12	12
	NGS0001	Threaded bolt	M10 x 180	DIN 976		12	-	-	-	-	-
65	NUS.004	Washer	A 10.5 x 20 x 2	DIN 125		-	48	48	48	72	72
66	NMK.001	Hexagon nut	M10	DIN 985-8		-	24	24	24	36	36
	NMK.018	Hexagon nut	M10	DIN 6331		24	-	-	-	-	-
67	NMS.003	Hexagon nut	M10			8	8	8	8	8	8
69	NSP.004	Spring pin	13 x 40	DIN 7346		4	4	4	4	4	4
70	NSK.010	Hexagon head bolt	M10 x 80	DIN 933		6	6	6	6	6	6
72	DKR.001	Copper ring	C 10 x 16 x 1	For motor shaft		4	4	4	4	4	4
	BKA.001	Grease nipple cap		For PTO shaft							
73	NSP.013	Spring pin	13 x 24	DIN 7346		8	8	8	8	8	8

Buffer chamber enlargement

Position 74

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
74	PSG.014	Buffer fluid canister		Pressurized		2	2	2	2	2	2
	PSG.014.T1	Quench fluid canister		Ventilated (Option)							
	PSV.002.N1	Pressure valve		(Option)							

Option: Intermediate flange
Position 75-78



IP1125382 28.09.2011

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
75	DOR0049	O-ring	282 x 4	NBR					2		
	DOR0050	O-ring	282 x 4	FPM							
76	PGP.B112.N1	Intermediate flange							1		
77	NSI.096.EE	Cylinder head bolt	M 10 x 18						2		
78	DOR.040	O-ring	12 x 2	NBR					2		
	DOR.040.EP	O-ring	12 x 2	EPDM							
	DOR.040.VI	O-ring	12 x 2	FPM							
	DOR.040.PT	O-ring	12 x 2	Silicone FEP coated							

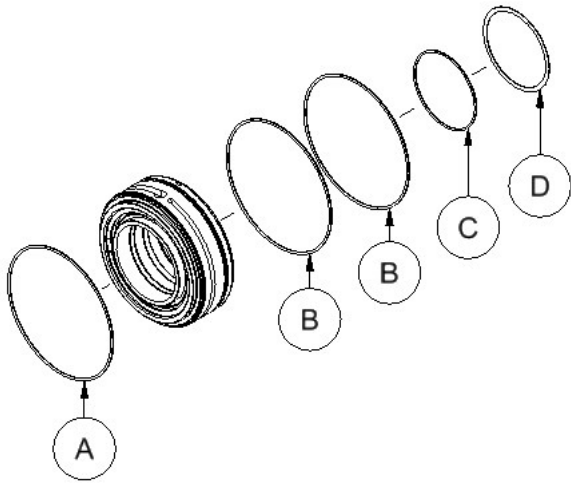
Cartridge mechanical seal

Pos. 79

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
Steel, nitrided											
79	PBT.B002	Cartridge mechanical seal HD; Single mechanical seal		SiC; HNBR, HNBR		4					
	PBT0449			SiC; HNBR, FPM							
	PBT1824			SiC; FPM, FPM							
	PBT.B004			Duronit ⁽⁴⁾ ; HNBR, HNBR							
	PBT1826			Duronit ⁽⁴⁾ ; FPM, FPM							
	PBT1828			SiC; EPDM, FPM							
	PBT.B010	Cartridge mechanical seal Block ring; Single mechanical seal		WC/SiC; HNBR, HNBR							
	PBT0809			WC/SiC, HNBR, HNBR							
	PBT0488			WC/SiC; HNBR, FPM							
	PBT0192			WC/SiC; FPM, FPM							
	PBT1744			WC/SiC; FEPM, FPM							
	PBT.B012			WC/coal; HNBR, NBR							
	PBT1731			WC/coal; FPM, FPM							
	PBT1733			WC/coal; EPDM, FPM							
	PBT.B019			CrO/Duronit ⁽⁴⁾ ; HNBR, HNBR							
	PBT0629			CrO/Duronit ⁽⁴⁾ ; HNBR, FPM							
	PBT1735			WC/SiC, EPDM, FPM							
	PBT1746			WC/SiC, FFPM, FPM							
	PBT1251			CrO/Duronit ⁽⁴⁾ ; HNBR, HNBR							
	PBT0342			CrO/Duronit ⁽⁴⁾ ; FPM, FPM							
PBT1749		CrO/Duronit ⁽⁴⁾ ; EPDM, FPM									
PBT1745		CrO/Duronit ⁽⁴⁾ ; FEPM, FPM									

⁽⁴⁾ up to 10 bar [145 psi] real operating pressure

"Loose parts" for Cartridge mechanical seal



Quantity per cartridge

Pos.	Part number	Description	Dimensions	Notes	Qty.
A	DOR.085	O-ring	104 x 3	NBR	1
	DOR.085.VI	O-ring	104 x 3	FPM	
B	DOR.085	O-ring	104 x 3	NBR	2
	DOR.085.EP	O-ring	104 x 3	EPDM	
	DOR.085.VI	O-ring	104 x 3	FPM	
	DOR.085.PT	O-ring	104 x 3	Silicone FEP coated	
C	DOR.041	O-ring	60 x 2	NBR	1
	DOR.041.VI	O-ring	60 x 2	FPM	
D	NUS.029	Shim			1

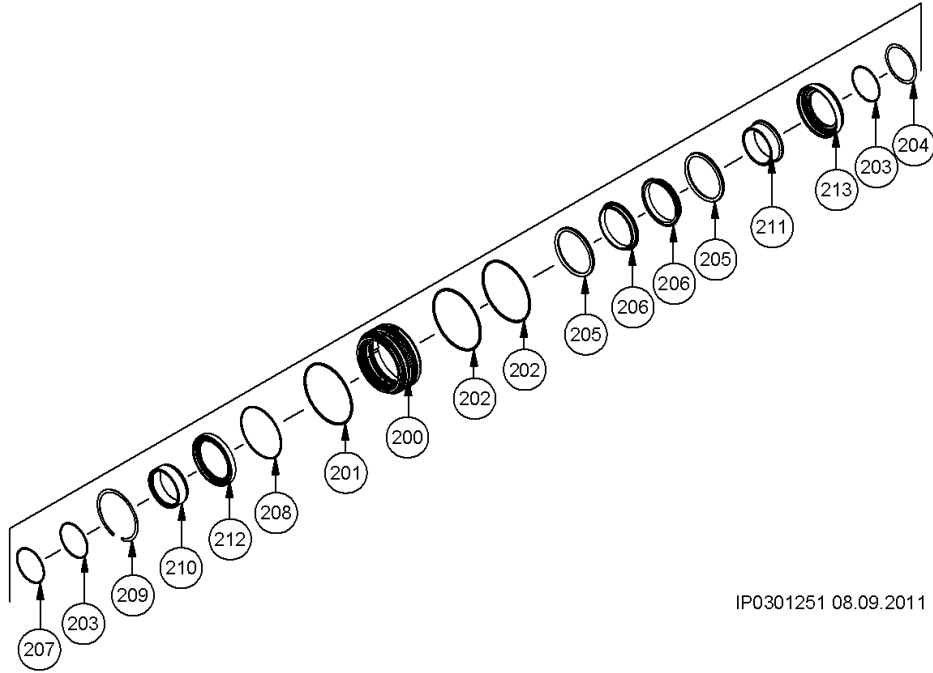
These positions are contained in the Cartridge mechanical seal as "loose parts".

For option component mechanical seal, see pos. 200-213

Bearing seal housing + accessories
Position 80-95

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
80	PGP.B112.N1.T1	Intermediate flange				2	2	2	2	2	2
81	NSP.031	Spring pin	11 x 18	DIN 7346		2	2	2	2	2	2
82	PGP.B110.T7	Bearing seal housing				1	1	1	1	1	1
	PGP.B110.T8	Bearing seal housing		Option: intermediate flange							
83	PRS.B116	O-ring carrier				2	2	2	2	2	2
84	NSR.043	Circlip	60 x 3.8 x 0.82			2	2	2	2	2	2
85	NLG.040	Cylindrical roller bearing	60 x 100 x 28			2	2	2	2	-	-
	NLG.040.T1	Cylindrical roller bearing	60 x 100 x 28			-	-	-	-	2	2
86	DOR.053	O-ring	110 x 3	NBR		2	2	2	2	2	2
87	PRS.B115	Sleeve				2	2	2	2	2	2
88	PRS.B114.N1	Clamping bush		For bearing		2	2	2	2	2	2
89	NTF.004	Disk spring	50 x 25.4 x 3	DIN 2096-A50		6	6	6	6	6	6
90	NSR.042	Circlip	50 x 3.1 x 0.82			2	2	2	2	2	2
91	PFL.B016	Lug				-	-	-	1	-	-
93	NSK.204	Hexagon head bolt	M 10 x 80	DIN 933		-	-	-	2	-	-
	NGS.088	Threaded rod	M 10 x 100	DIN 976		2	-	-	-	-	-
94	NSK.004	Hexagon head bolt	M 10 x 45	DIN 933		-	-	-	-	12	12
95	NSK0106	Screw plug	M 30 x 1,5	DIN 910-1		2	2	2	2	2	2
96	DKR0003	Sealing ring	A 30 x 36 x 2; Cu	DIN7603		2	2	2	2	2	2

Component mechanical seal
Pos. 200-213



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Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
200	PRS.B105.N2.T1	Seal carrier				4	4	4	4	4	4
201	DOR.085	O-ring	104 x 3	NBR		4	4	4	4	4	4
	DOR.085.VI	O-ring	104 x 3	FPM							
202	DOR.085	O-ring	104 x 3	NBR		8	8	8	8	8	8
	DOR.085.EP	O-ring	104 x 3	EPDM							
	DOR.085.VI	O-ring	104 x 3	FPM							
	DOR.085.PT	O-ring	104 x 3	Silicone FEP coated							
203	DOR.041	O-ring	60 x 2	NBR		6	6	6	6	6	6
	DOR.041.VI	O-ring	60 x 2	FPM							
204	NUS.029	Shim				4	4	4	4	4	4
205	DOR.034	O-ring	72,5 x 6,5	NBR		8	8	8	8	8	8
	DOR.034.EP	O-ring	72,5 x 6,5	EPDM							
	DOR.034.VI	O-ring	72,5 x 6,5	FPM							
	DOR.034.SI	O-ring	72,5 x 6,5	Silicone; check resistance!							
206	DGL.B012	Mechanical seal		Duronit ⁽⁴⁾		8	8	8	8	8	8
	DGL.B012.SC	Mechanical seal		SiSiC (silicone carbide)							
207	DOR.005	O-ring	56 x 2			2	2	2	2	2	2
208	DOR.135	O-ring	90 x 2			2	2	2	2	2	2
209	NSR.032	Circlip				2	2	2	2	2	2
210	PRS.B103.T1	Rotating ring				4	4	4	4	4	4
211	PRS.B104	Distance sleeve				4	4	4	4	4	4
212	DWD.065	Radial shaft seal ring	70 x 90 x 10			4	4	4	4	4	4
213	PRS.B101.N2.T2	Seal support				4	4	4	4	4	4

⁽⁴⁾ up to 10 bar [145 psi] real operating pressure

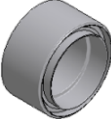

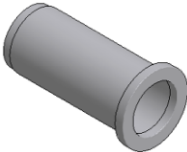
Tools

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
	PBA.B001.T1	Lobe puller	70-280 QD			x	x	x	x	x	
	PBA.B001.T2	Lobe puller	420 QD								x

Cartridge mechanical seal

	WKZ0172	Tool set		Cartridge mechanical seal					x		
	WKZ0456	Disassembly tool Cartridge mechanical seal		Included in WKZ0172					(1)		
	PBA.B020.N1	Tool		Included in WKZ0456					(1)		
	NSI.155	Cylinder head bolt	M 5 x 12						(2)		
	NSK.155	Hexagon head bolt	M 8 x 80						(3)		

Component mechanical seal:

	PBA.B006.N1	Assembly tool		Mechanical seal (DGL.B012 pos. 206)							
	PBA.B007.N1	Assembly tool		Shaft (for DWD.065 pos. 212)							
	PBA.B011	Assembly tool		Radial shaft seal ring (for DWD.065 pos. 212)							
	PBA.B033.T1	Multi-purpose tool	→ 70QD-105QD	Cartridge mechanical seal + rotary lobe		x	x				
	PBA.B033.T2	Multi-purpose tool	→ 140QD-420QD	Cartridge mechanical seal + rotary lobe				x	x	x	x

Material for connectors

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
	NSK.027	Hexagon head bolt	M 10 x 25	DIN 933		20	24	24	28	32	48
	NUS.004	Washer	A10.5 x 20 x 2	DIN 125		20	24	24	28	32	48
	PFL.010	Flange	70			2	-	-	-	-	-
	PFL.057	Flange	105			-	2	-	-	-	-
	PFL.005	Flange	140			-	-	2	-	-	-
	PFL.006	Flange	210			-	-	-	2	-	-
	PFL.026	Flange	280			-	-	-	-	2	-
	PFL.029	Flange	420			-	-	-	-	-	2
	DFD.011.P	Flange gasket	70			2	-	-	-	-	-
	DFD.033.P	Flange gasket	105			-	2	-	-	-	-
	DFD.005.P	Flange gasket	140			-	-	2	-	-	-
	DFD.006.P	Flange gasket	210			-	-	-	2	-	-
	DFD.117.P	Flange gasket	280			-	-	-	-	2	-
	DFD.119.P	Flange gasket	420			-	-	-	-	-	2

Required spare parts for rotary lobe change

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
34	NPF.010	Fitting key	B 14 x 9 x 28			2	-	-	-	-	-
	NPF.011	Fitting key	B 14 x 9 x 56			-	2	-	2	2	2
	NPF.023	Fitting key	B 14 x 9 x 90			-	-	-	-	4	-
	NPF.013	Fitting key	B 14 x 9 x 100			-	-	2	-	-	2
	NPF.012	Fitting key	B 14 x 9 x 110			-	-	-	2	-	4
46	DOR.043	O-ring	64 x 4	NBR		2	2	2	2	2	2
	DOR.043.VI	O-ring	64 x 4	FPM							
48	PRS.102	Strain bolt	M16			2	2	2	2	2	2
50	DOR.051	O-ring	280 x 6	NBR		1	1	1	1	1	1
	DOR.051.EP	O-ring	280 x 6	EPDM							
	DOR.051.VI	O-ring	280 x 6	FPM							
	DOR.051.PT	O-ring	280 x 6	Silicone FEP coated							
51-54		Rotary lobe		See page 10 and follow							
86	DOR.053	O-ring	110 x 3	NBR		2	2	2	2	2	2

⁽⁵⁾ for solid material lobe

Necessary spare parts for Cartridge mechanical seal change

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
28	DOR.041	O-ring	60 x 2	NBR		2	2	2	2	2	2
	DOR.041.VI	O-ring	60 x 2	FPM							
46	DOR.043	O-ring	64 x 4	NBR		2	2	2	2	2	2
	DOR.043.VI	O-ring	64 x 4	FPM							
48	PRS.102	Strain bolt	M16			2	2	2	2	2	2
50	DOR.051	O-ring	280 x 6	NBR		1	1	1	1	1	1
	DOR.051.EP	O-ring	280 x 6	EPDM							
	DOR.051.VI	O-ring	280 x 6	FPM							
	DOR.051.PT	O-ring	280 x 6	Silicone FEP coated							
Steel, nitrided											
79	PBT.B002	Cartridge mechanical seal HD; Single mechanical seal		SiC; HNBR, HNBR		4					
	PBT0449			SiC; HNBR, FPM							
	PBT1824			SiC; FPM, FPM							
	PBT.B004			Duronit ⁽⁴⁾ ; HNBR, HNBR							
	PBT1826			Duronit ⁽⁴⁾ ; FPM, FPM							
	PBT1828			SiC; EPDM, FPM							
	PBT.B010	Cartridge mechanical seal Block ring; Single mechanical seal		WC/SiC; HNBR, HNBR							
	PBT0809			WC/SiC, HNBR, HNBR							
	PBT0488			WC/SiC; HNBR, FPM							
	PBT0192			WC/SiC; FPM, FPM							
	PBT1744			WC/SiC; FEPM, FPM							
	PBT.B012			WC/coal; HNBR, NBR							
	PBT1731			WC/coal; FPM, FPM							
	PBT1733			WC/coal; EPDM, FPM							
	PBT.B019			CrO/Duronit ⁽⁴⁾ ; HNBR, HNBR							
	PBT0629			CrO/Duronit ⁽⁴⁾ ; HNBR, FPM							
	PBT1735			WC/SiC, EPDM, FPM							
	PBT1746			WC/SiC, FFPM, FPM							
	PBT1251			CrO/Duronit ⁽⁴⁾ ; HNBR, HNBR							
	PBT0342			CrO/Duronit ⁽⁴⁾ ; FPM, FPM							
PBT1749		CrO/Duronit ⁽⁴⁾ ; EPDM, FPM									
PBT1745		CrO/Duronit ⁽⁴⁾ ; FEPM, FPM									
86	DOR.053	O-ring	110 x 3	NBR							2

⁽⁴⁾ up to 10 bar [145 psi] real operating pressure

Necessary spare parts for wear part replacement with Cartridge mechanical seal

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
28	DOR.041	O-ring	60 x 2	NBR		2	2	2	2	2	2
	DOR.041.VI	O-ring	60 x 2	FPM							
34	NPF.010	Fitting key	B 14 x 9 x 28			2	-	-	-	-	-
	NPF.011	Fitting key	B 14 x 9 x 56			-	2	-	2	2	2
	NPF.023	Fitting key	B 14 x 9 x 90			-	-	-	-	4	-
	NPF.013	Fitting key	B 14 x 9 x 100			-	-	2	-	-	2
	NPF.012	Fitting key	B 14 x 9 x 110			-	-	-	2	-	4
37	PFL.B009	Wear plate				2	2	2	2	2	2
	PFL.B009.G1	Wear plate		Coated with tungsten carbide							
38	NSK.025.EE	Hexagon head bolt	M 10 x 16	DIN 933		4	4	4	4	4	4
40	DAD.007	Gasket		Asbestos-free		4	4	4	4	6	6
46	DOR.043	O-ring	64 x 4	NBR		2	2	2	2	2	2
	DOR.043.VI	O-ring	64 x 4	FPM							
48	PRS.102	Strain bolt	M16			2	2	2	2	2	2
50	DOR.051	O-ring	280 x 6	NBR		1	1	1	1	1	1
	DOR.051.EP	O-ring	280 x 6	EPDM							
	DOR.051.VI	O-ring	280 x 6	FPM							
	DOR.051.PT	O-ring	280 x 6	Silicone FEP coated							
51-54		Rotary lobe		See page 10 and follow							

Steel, nitrided

79	PBT.B002	Cartridge mechanical seal HD; Single mechanical seal		SiC; HNBR, HNBR		4
	PBT0449			SiC; HNBR, FPM		
	PBT1824			SiC; FPM, FPM		
	PBT.B004			Duronit ⁽⁴⁾ ; HNBR, HNBR		
	PBT1826			Duronit ⁽⁴⁾ ; FPM, FPM		
	PBT1828			SiC; EPDM, FPM		
	PBT.B010	Cartridge mechanical seal Block ring; Single mechanical seal		WC/SiC; HNBR, HNBR		
	PBT0809			WC/SiC; HNBR, HNBR		
	PBT0488			WC/SiC; HNBR, FPM		
	PBT0192			WC/SiC; FPM, FPM		
	PBT1744			WC/SiC; FEPM, FPM		
	PBT.B012			WC/coal; HNBR, NBR		
	PBT1731			WC/coal; FPM, FPM		
	PBT1733			WC/coal; EPDM, FPM		
	PBT.B019			CrO/Duronit ⁽⁴⁾ ; HNBR, HNBR		
	PBT0629			CrO/Duronit ⁽⁴⁾ ; HNBR, FPM		
	PBT1735			WC/SiC, EPDM, FPM		
	PBT1746			WC/SiC, FFPM, FPM		
	PBT1251			CrO/Duronit ⁽⁴⁾ ; HNBR, HNBR		
	PBT0342			CrO/Duronit ⁽⁴⁾ ; FPM, FPM		
PBT1749		CrO/Duronit ⁽⁴⁾ ; EPDM, FPM				
PBT1745		CrO/Duronit ⁽⁴⁾ ; FEPM, FPM				
86	DOR.053	O-ring	110 x 3	NBR		2

⁽⁴⁾ up to 10 bar [145 psi] real operating pressure

⁽⁵⁾ for solid material lobe

Necessary spare parts for component mechanical seal change

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
28	DOR.041	O-ring	60 x 2	NBR		2	2	2	2	2	2
	DOR.041.VI	O-ring	60 x 2	FPM							
46	DOR.043	O-ring	64 x 4	NBR		2	2	2	2	2	2
	DOR.043.VI	O-ring	64 x 4	FPM							
48	PRS.102	Strain bolt	M16			2	2	2	2	2	2
50	DOR.051	O-ring	280 x 6	NBR		1	1	1	1	1	1
	DOR.051.EP	O-ring	280 x 6	EPDM							
	DOR.051.VI	O-ring	280 x 6	FPM							
	DOR.051.PT	O-ring	280 x 6	Silicone FEP coated							
86	DOR.053	O-ring	110 x 3	NBR		2	2	2	2	2	2
201	DOR.085	O-ring	104 x 3	NBR		4	4	4	4	4	4
	DOR.085.VI	O-ring	104 x 3	FPM							
202	DOR.085	O-ring	104 x 3	NBR		8	8	8	8	8	8
	DOR.085.EP	O-ring	104 x 3	EPDM							
	DOR.085.VI	O-ring	104 x 3	FPM							
	DOR.085.PT	O-ring	104 x 3	Silicone FEP coated							
203	DOR.041	O-ring	60 x 2	NBR		6	6	6	6	6	6
	DOR.041.VI	O-ring	60 x 2	FPM							
204	NUS.029	Shim				4	4	4	4	4	4
205	DOR.034	O-ring	72,5 x 6,5	NBR		8	8	8	8	8	8
	DOR.034.EP	O-ring	72,5 x 6,5	EPDM							
	DOR.034.VI	O-ring	72,5 x 6,5	FPM							
	DOR.034.SI	O-ring	72,5 x 6,5	Silicone; check resistance!							
206	DGL.B012	Mechanical seal		Duronit ⁽⁴⁾		8	8	8	8	8	8
	DGL.B012.SC	Mechanical seal		SiSiC (silicone carbide)							
207	DOR.005	O-ring	56 x 2			2	2	2	2	2	2
208	DOR.135	O-ring	90 x 2			2	2	2	2	2	2
209	NSR.032	Circlip				2	2	2	2	2	2

⁽⁴⁾ up to 10 bar [145 psi] real operating pressure

Necessary spare parts for wear part replacement with component mechanical seal

Pos.	Part number	Description	Dimensions	Notes	Qty.	70	105	140	210	280	420
28	DOR.041	O-ring	60 x 2	NBR		2	2	2	2	2	2
	DOR.041.VI	O-ring	60 x 2	FPM							
34	NPF.010	Fitting key	B 14 x 9 x 28			2	-	-	-	-	-
	NPF.011	Fitting key	B 14 x 9 x 56			-	2	-	2	2	2
	NPF.023	Fitting key	B 14 x 9 x 90			-	-	-	-	4	-
	NPF.013	Fitting key	B 14 x 9 x 100			-	-	2	-	-	2
	NPF.012	Fitting key	B 14 x 9 x 110			-	-	-	2	-	4
37	PFL.B009	Wear plate				2	2	2	2	2	2
	PFL.B009.G1	Wear plate		Coated with tungsten carbide							
38	NSK.025.EE	Hexagon head bolt	M 10 x 16	DIN 933		4	4	4	4	4	4
40	DAD.007	Gasket		Asbestos-free		4	4	4	4	6	6
46	DOR.043	O-ring	64 x 4	NBR		2	2	2	2	2	2
	DOR.043.VI	O-ring	64 x 4	FPM							
48	PRS.102	Strain bolt	M16			2	2	2	2	2	2
50	DOR.051	O-ring	280 x 6	NBR		1	1	1	1	1	1
	DOR.051.EP	O-ring	280 x 6	EPDM							
	DOR.051.VI	O-ring	280 x 6	FPM							
	DOR.051.PT	O-ring	280 x 6	Silicone FEP coated							
51-54		Rotary lobe		See page 10 and follow							
86	DOR.053	O-ring	110 x 3	NBR		2	2	2	2	2	2
201	DOR.085	O-ring	104 x 3	NBR		4	4	4	4	4	4
	DOR.085.VI	O-ring	104 x 3	FPM							
202	DOR.085	O-ring	104 x 3	NBR		8	8	8	8	8	8
	DOR.085.EP	O-ring	104 x 3	EPDM							
	DOR.085.VI	O-ring	104 x 3	FPM							
	DOR.085.PT	O-ring	104 x 3	Silicone FEP coated							
203	DOR.041	O-ring	60 x 2	NBR		6	6	6	6	6	6
	DOR.041.VI	O-ring	60 x 2	FPM							
204	NUS.029	Shim				4	4	4	4	4	4
205	DOR.034	O-ring	72,5 x 6,5	NBR		8	8	8	8	8	8
	DOR.034.EP	O-ring	72,5 x 6,5	EPDM							
	DOR.034.VI	O-ring	72,5 x 6,5	FPM							
	DOR.034.SI	O-ring	72,5 x 6,5	Silicone; check resistance!							
206	DGL.B012	Mechanical seal		Duronit ⁽⁴⁾		8	8	8	8	8	8
	DGL.B012.SC	Mechanical seal		SiSiC (silicone carbide)							
207	DOR.005	O-ring	56 x 2			2	2	2	2	2	2
208	DOR.135	O-ring	90 x 2			2	2	2	2	2	2
209	NSR.032	Circlip				2	2	2	2	2	2

⁽⁴⁾ up to 10 bar [145 psi] real operating pressure

⁽⁵⁾ for solid material lobe

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