

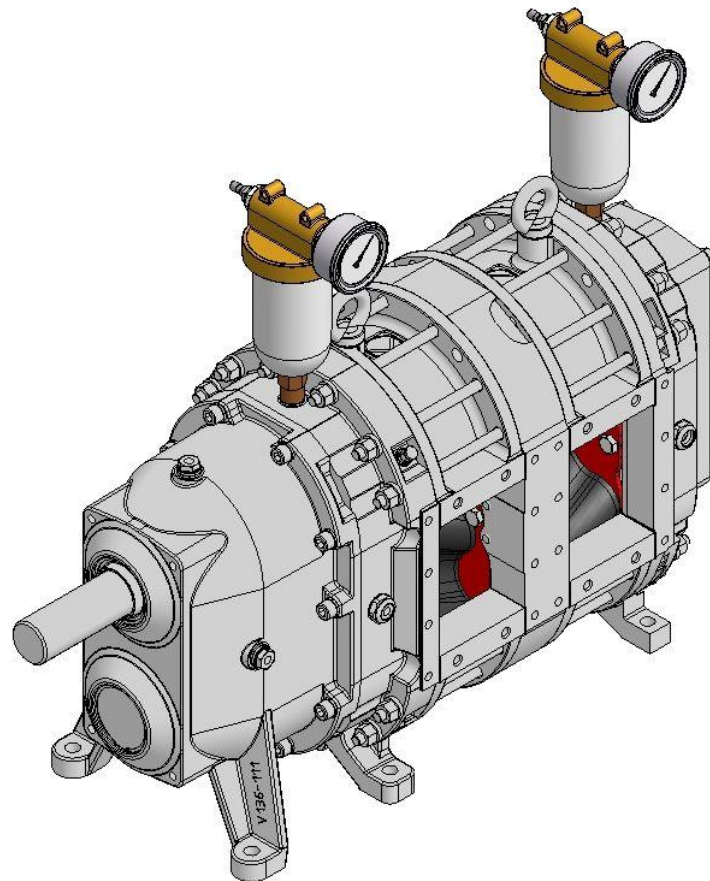


Spare parts list

Rotary lobe pump

VX136QDM2

ENGINEERED TO WORK



Issuer

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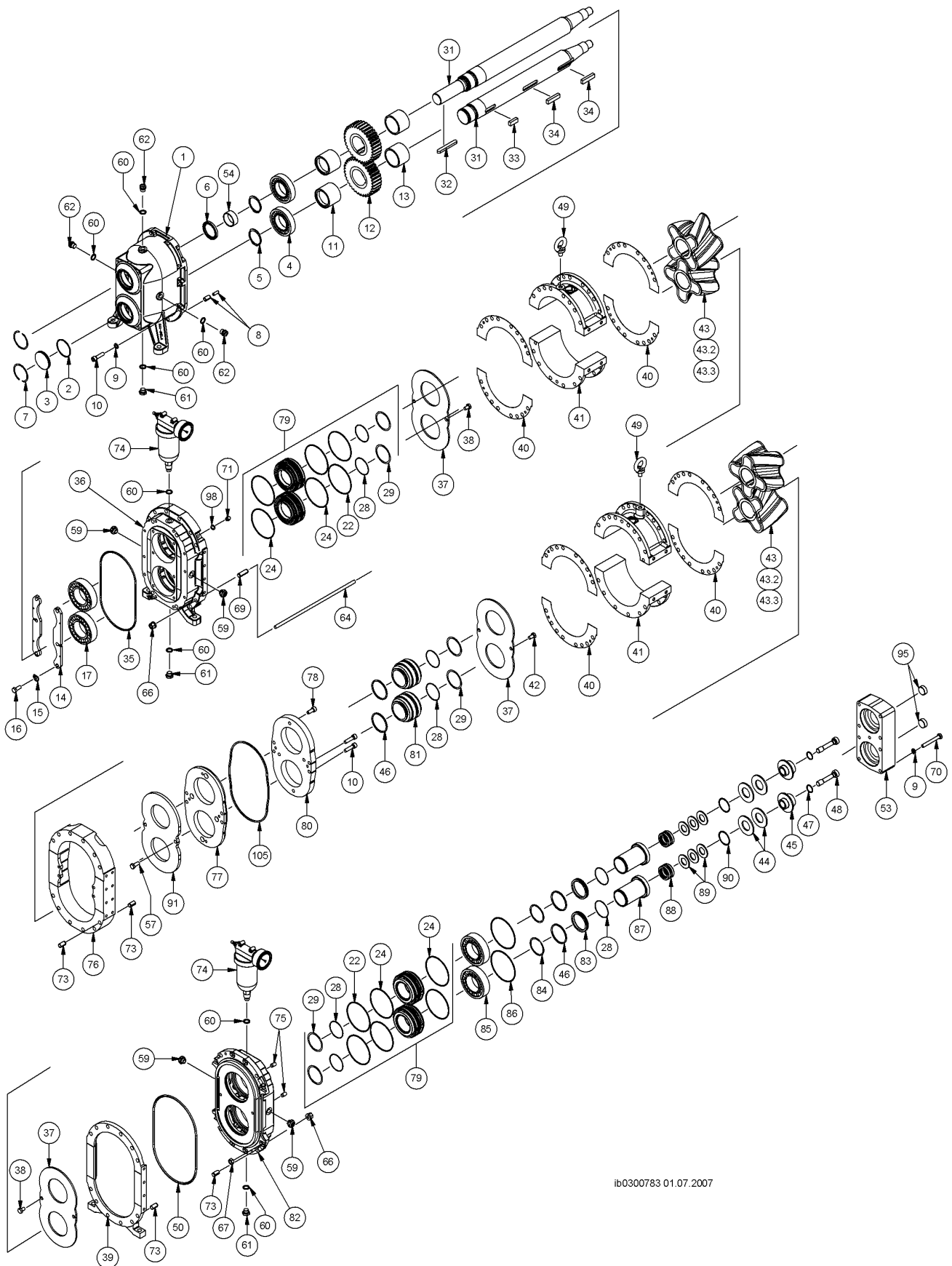
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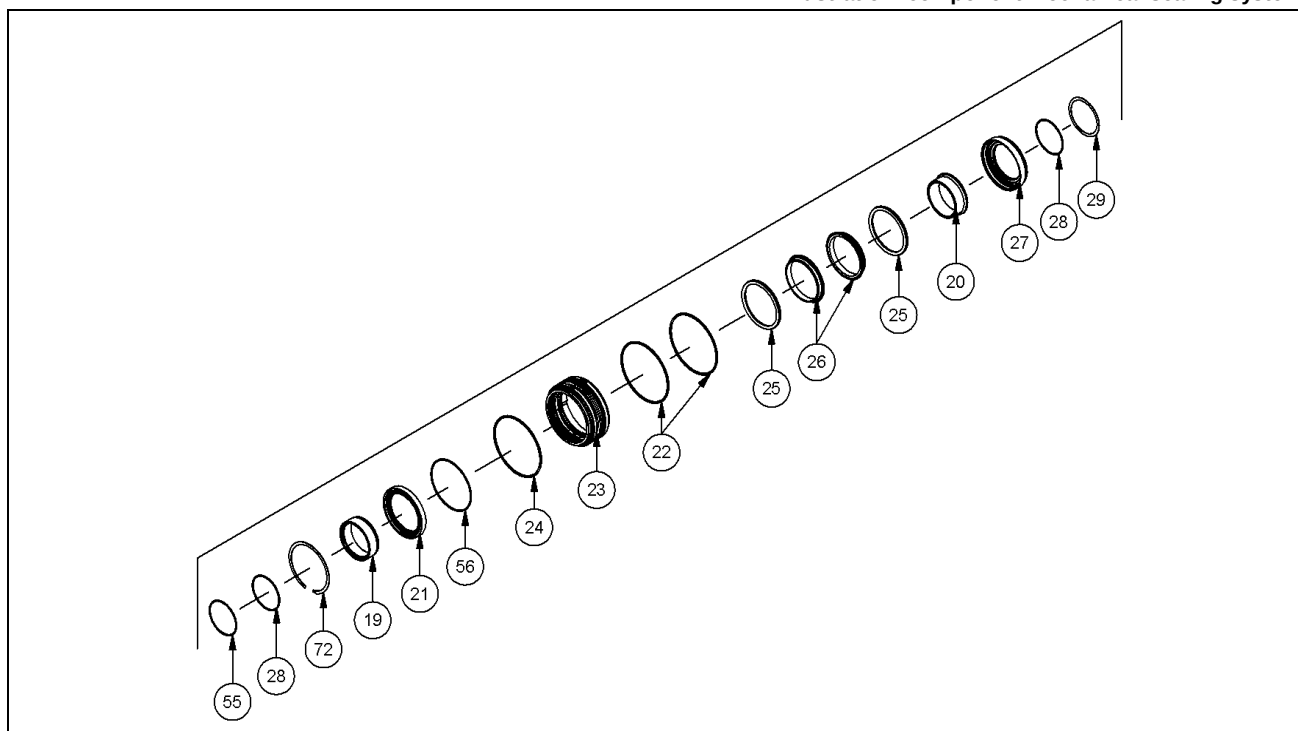
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Exploded view



ib0300783 01.07.2007

Illustration: component mechanical sealing system



IP0301251 25/09/2007

Component mechanical seal

Position 19-29/ 55/ 56/ 72

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
19	PRS.B103.T1	Lip seal race				4	4	4	4
20	PRS.B104	Distance sleeve				4	4	4	4
22	DOR.085	O-ring	104 x 3	NBR		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					
23	PRS.B105.N2.T1	Seal carrier				4	4	4	4
24	DOR.085	O-ring	104 x 3	NBR		4	4	4	4
25	DOR.034	O-ring	72,5 x 6,5	NBR		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					
26	DGL.B012	Mechanical seal		Duronit ⁽⁴⁾		8	8	8	8
	DGL.B012.SC	Mechanical seal		SiSiC (silicone carbide)					
27	PRS.B101.N2.T2	Seal support				4	4	4	4
28	DOR.041	O-ring	60 x 2			12	12	12	12
29	NUS.029	Shim				6	6	6	6
55	DOR.005	O-ring	56 x 2			2	2	2	2
56	DOR.135	O-ring	90 x 2			2	2	2	2
72	NSR.032	Circlip				2	2	2	2

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

Cartridge mechanical sealing system includes as separate delivery pos. 22/24/28/29.

Gear housing and accessories

Position 1-17+28

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
1	PGP.B111.T1	Gear box housing				1	1	1	1
2	DOR.086	O-ring	59 x 3	NBR; for motor-shaft		1	1	1	1
3	PRS.B108	Plug disk for gear box housing		For motor shaft		1	1	1	1
4	NLG.029	Cylindrical roller bearing	ø55 x ø100			2	2	2	2
5	NSR.010	Retaining ring	AS 55 x 3	DIN 471		2	2	2	2
6	DWD.060.HNB	Lip seal	50 x 65 x 7	For motor shaft		1	1	1	1
				For PTO-shaft		2	2	2	2
7	NSR.034	Circlip	65 x 3.8 x 0.82			2	2	2	2
8	NSP.023	Spring pin	13 x 22	DIN 1481		4	4	4	4
	NSP.025	Spring pin	8 x 24	ISO 8752, heavy type		4	4	4	4
9	NFR.003	Lock washer	ø10	DIN 127		16	16	16	16
10	NSI.001	Hex socket head screw	M10 x 40	DIN 912		14	14	14	14
11	PRS.B006	Spacer sleeve		Floating bearing		2	2	2	2
12	PZH.003	Gear				2	2	2	2
13	PRS.B005	Spacer sleeve		Fixed bearing		2	2	2	2
14	PFL.B010	Fixing plate for bearing				2	2	2	2
15	NUS.066	Locking plate	10.5 mm	DIN 432		6	6	6	6
16	NSK.027	Hex head screw	M10 x 25	DIN 933		6	6	6	6
17	NLG.026	Spherical roller bearing	22212 E1			2	2	2	2
	NLG.026.T1	Spherical roller bearing	22212 E	Option					

PTO-shaft

Position 30/ 31

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
31	PWM.B037	PTO-shaft	VX136-140-S-QDM2			2	-	-	-
	PWM.B038	PTO-shaft	VX136-210-S-QDM2			-	2	-	-
	PWM.B039	PTO-shaft	VX136-280-S-QDM2			-	-	2	-
	PWM.B040	PTO-shaft	VX136-420-S-QDM2			-	-	-	2

Motor-shaft

Position 30-32

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
31	PWM.B033	Motor shaft	VX136-140-MK-QDM2	Short		1	-	-	-
	PWM.B034	Motor shaft	VX136-210-MK-QDM2	Short		-	1	-	-
	PWM.B035	Motor shaft	VX136-280-MK-QDM2	Short		-	-	1	-
	PWM.B036	Motor shaft	VX136-420-MK-QDM2	Short		-	-	-	1
	PWM.B029	Motor shaft	VX136-140-ML-QDM2	Long		1	-	-	-
	PWM.B030	Motor shaft	VX136-210-ML-QDM2	Long		-	1	-	-
	PWM.B031	Motor shaft	VX136-280-ML-QDM2	Long		-	-	1	-
	PWM.B032	Motor shaft	VX136-420-ML-QDM2	Long		-	-	-	1
32	NPF.046	Key	A 12 x 8 x 90	Motor shaft long		1	1	1	1

Key gear

Position 33

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
33	NPF.022	Key	B 14 x 9 x 35	DIN 6885		2	2	2	2

Key for rotary lobe

Position 34

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
34	NPF.010	Key	B 14 x 9 x 28			4	-	-	-
	NPF.011	Key	B 14 x 9 x 56			-	4	-	4
	NPF.013	Key	B 14 x 9 x 100			-	-	4	-
	NPF.012	Key	B 14 x 9 x 110			-	-	-	4

Bearing seal housing + accessories

Position 35-36

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
35	DOR.035	O-ring	245 x 5	NBR		1	1	1	1
36	PGP.B110.T1	Bearing/seal housing				1	1	1	1

Wear plate

Position 37-38

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
37	PFL.B009	Wear plate				3	3	3	3
	PFL.B009.G1	Wear plate		Tungsten carbide coated					
38	NSK.025.EE	Hex socket head screw	M10 x 16	DIN 933; stainless steel		6	6	6	6

Cover flange

Position 39

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

Gasket for pump housing segment

Position 40

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
40	DAD.007	Gasket		Asbestos-free		8	8	8	8

Pump housing segment

Position 41

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
41	PGP.015	Pump housing segment	70			4			
	PGP.100	Pump housing segment	105				4		
	PGP.013	Pump housing segment	140					4	
	PGP.014	Pump housing segment	210						4
	PGP.015.G1	Pump housing segment	70	Tungsten carbide coated		4			
	PGP.100.G1	Pump housing segment	105	Tungsten carbide coated			4		
	PGP.013.G1	Pump housing segment	140	Tungsten carbide coated				4	
	PGP.014.G2	Pump housing segment	210	Tungsten carbide coated					4
	PGP.015.G2	Pump housing segment	70	EN-GJS-1000-5 (ADI)		4			
	PGP.100.G2	Pump housing segment	105	EN-GJS-1000-5 (ADI)			4		
	PGP.013.G2	Pump housing segment	140	EN-GJS-1000-5 (ADI)				4	
	PGP.014.G2	Pump housing segment	210	EN-GJS-1000-5 (ADI)					4

Hex nut

Pos. 42

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
42	NSK.180.EE	Hex socket screw	M10 x 18	Stainless steel		2	2	2	2

Rotary lobe
Position 43

HiFlo™

HiFlo™ SBR

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
43	PKB.B101.TL	Rotary lobe	70-4K45-L	SBR		2	-	-	-
	PKB.B101.TR	Rotary lobe	70-4K45-R	SBR		2	-	-	-
	PKB.B102.TL	Rotary lobe	105-4K45-L	SBR		-	2	-	4
	PKB.B102.TR	Rotary lobe	105-4K45-R	SBR		-	2	-	4
	PKB.B103.TL	Rotary lobe	140-4K45-L	SBR		-	-	2	-
	PKB.B103.TR	Rotary lobe	140-4K45-R	SBR		-	-	2	-

HiFlo™ NBR

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
43	PKB.B101.TL.NB	Rotary lobe	70-4K45-L	NBR		2	-	-	-
	PKB.B101.TR.NB	Rotary lobe	70-4K45-R	NBR		2	-	-	-
	PKB.B102.TL.NB	Rotary lobe	105-4K45-L	NBR		-	2	-	4
	PKB.B102.TR.NB	Rotary lobe	105-4K45-R	NBR		-	2	-	4
	PKB.B103.TL.NB	Rotary lobe	140-4K45-L	NBR		-	-	2	-
	PKB.B103.TR.NB	Rotary lobe	140-4K45-R	NBR		-	-	2	-
43	PKB.B101.TL.NBW	Rotary lobe	70-4K45-L	NBR white		2	-	-	-
	PKB.B101.TR.NBW	Rotary lobe	70-4K45-R	NBR white		2	-	-	-
	PKB.B102.TL.NBW	Rotary lobe	105-4K45-L	NBR white		-	2	-	4
	PKB.B102.TR.NBW	Rotary lobe	105-4K45-R	NBR white		-	2	-	4
	PKB.B103.TL.NBW	Rotary lobe	140-4K45-L	NBR white		-	-	2	-
	PKB.B103.TR.NBW	Rotary lobe	140-4K45-R	NBR white		-	-	2	-

HiFlo™ HNBR

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
43	PKB.B101.TL.HNB	Rotary lobe	70-4K45-L	HNBR		2	-	-	-
	PKB.B101.TR.HNB	Rotary lobe	70-4K45-R	HNBR		2	-	-	-
	PKB.B102.TL.HNB	Rotary lobe	105-4K45-L	HNBR		-	2	-	4
	PKB.B102.TR.HNB	Rotary lobe	105-4K45-R	HNBR		-	2	-	4

HiFlo™ EPDM

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
43	PKB.B101.TL.SL	Rotary lobe	70-4K45-L	EPDM-SL		2	-	-	-
	PKB.B101.TR.SL	Rotary lobe	70-4K45-R	EPDM-SL		2	-	-	-
	PKB.B102.TL.SL	Rotary lobe	105-4K45-L	EPDM-SL		-	2	-	4
	PKB.B102.TR.SL	Rotary lobe	105-4K45-R	EPDM-SL		-	2	-	4
	PKB.B103.TL.SL	Rotary lobe	140-4K45-L	EPDM-SL		-	-	2	-
	PKB.B103.TR.SL	Rotary lobe	140-4K45-R	EPDM-SL		-	-	2	-
43	PKB.B101.TL.EPW	Rotary lobe	70-4K45-L	EPDM white		2	-	-	-
	PKB.B101.TR.EPW	Rotary lobe	70-4K45-R	EPDM white		2	-	-	-
	PKB.B102.TL.EPW	Rotary lobe	105-4K45-L	EPDM white		-	2	-	4
	PKB.B102.TR.EPW	Rotary lobe	105-4K45-R	EPDM white		-	2	-	4
	PKB.B103.TL.EPW	Rotary lobe	140-4K45-L	EPDM white		-	-	2	-
	PKB.B103.TR.EPW	Rotary lobe	140-4K45-R	EPDM white		-	-	2	-

HiFlo™ FPM

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

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

HiFlo™ WEROBUST

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

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

Rotary lobes two wings

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
43	PKB.B018.Q	Rotary lobe; two-wings	70	NBR		2	-	-	-
	PKB.B035.Q	Rotary lobe; two-wings	105	NBR		-	2	-	8
	PKB.B028.Q	Rotary lobe; two-wings	140	NBR		-	-	2	-
	PKB.B018.QF	Rotary lobe; two-wings	70	NBR enlarge rubber layer		2	-	-	-
	PKB.B035.QF	Rotary lobe; two-wings	105	NBR enlarge rubber layer		-	2	-	8
	PKB.B018.QW	Rotary lobe; two-wings	70	NBR white		2	-	-	-
	PKB.B028.QW	Rotary lobe; two-wings	140	NBR white		-	-	2	8
	PKB.B016.Q	Rotary lobe; two-wings	70	SBR 70		2	-	-	-
	PKB.B033.Q	Rotary lobe; two-wings	105	SBR 70		-	2	-	8
	PKB.B026.Q	Rotary lobe; two-wings	140	SBR 70		-	-	2	-
	PKB.B021.Q.SL	Rotary lobe; two-wings	70	EPDM-SL		2	-	-	-
	PKB.B034.Q.SL	Rotary lobe; two-wings	105	EPDM-SL		-	2	-	8
	PKB.B030.Q.SL	Rotary lobe; two-wings	140	EPDM-SL		-	-	2	-
	PKB.B022.Q	Rotary lobe; two-wings	70	FPM ⁽¹⁾		2	-	-	-
	PKB.B037.Q	Rotary lobe; two-wings	105	FPM ⁽¹⁾		-	2	-	8
	PKB.B031.Q	Rotary lobe; two-wings	140	FPM ⁽¹⁾		-	-	2	-
	PKB.B023.Q	Rotary lobe; two-wings	70	WEROBUST ⁽²⁾		2	-	-	-
	PKB.B036.Q	Rotary lobe; two-wings	105	WEROBUST ⁽²⁾		-	2	-	8
	PKB.B025.Q	Rotary lobe; two-wings	140	WEROBUST ⁽²⁾		-	-	2	-

⁽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!

Pure material rotary lobes HiFlo™ / two wings

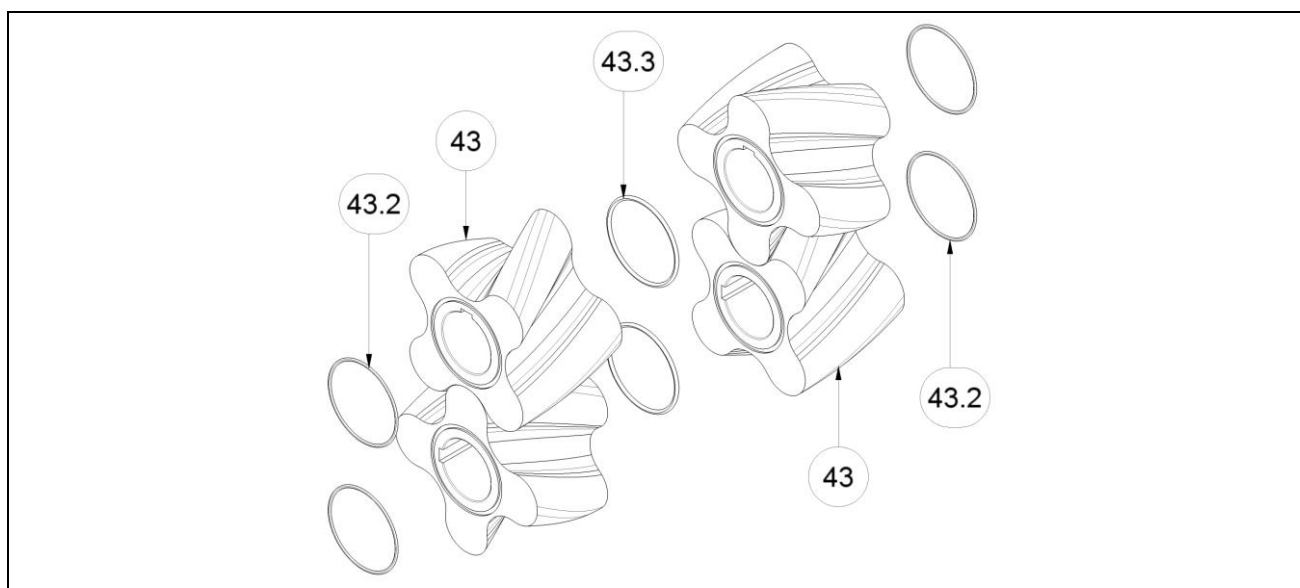
Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
43	PKB.B104.N1.TL	Rotary lobe	70-4K45-L	C45 nitrided ⁽³⁾		2	-	-	-
	PKB.B104.N1.TR	Rotary lobe	70-4K45-R	C45 nitrided ⁽³⁾		2	-	-	-
	PKB.B105.N1.TL	Rotary lobe	105-4K45-L	C45 nitrided ⁽³⁾		-	2	-	4
	PKB.B105.N1.TR	Rotary lobe	105-4K45-R	C45 nitrided ⁽³⁾		-	2	-	4
	PKB.B106.N1.TL	Rotary lobe	140-4K45-L	C45 nitrided ⁽³⁾		-	-	2	-
	PKB.B106.N1.TR	Rotary lobe	140-4K45-R	C45 nitrided ⁽³⁾		-	-	2	-
	PKB.B041.N1.Q	Rotary lobe; two-wings	70	C45 nitrided ⁽³⁾		4	-	-	-
	PKB.B042.N1.Q	Rotary lobe; two-wings	105	C45 nitrided ⁽³⁾		-	4	-	8
	PKB.B043.N1.Q	Rotary lobe; two-wings	140	C45 nitrided ⁽³⁾		-	-	4	-
	PKB.B101.TL.POM	Rotary lobe	70-4K45-L	POM ⁽³⁾		2	-	4	-
	PKB.B101.TR.POM	Rotary lobe	70-4K45-R	POM ⁽³⁾		2	-	4	-
	PKB.B102.TL.POM	Rotary lobe	105-4K45-L	POM ⁽³⁾		-	2	-	4
	PKB.B102.TR.POM	Rotary lobe	105-4K45-R	POM ⁽³⁾		-	2	-	4
	PKB.B023.Q	Rotary lobe; two-wings	70	POM ⁽³⁾		4	-	-	-
	PKB.B036.Q	Rotary lobe; two-wings	105	POM ⁽³⁾		-	4	-	8
	PKB.B025.Q	Rotary lobe; two-wings	140	POM ⁽³⁾		-	-	4	-

⁽³⁾ + O-ring for pure material lobe

O-ring for pure material lobes

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
43.2	DOR.039	O-ring ⁽⁵⁾	80 x 2,5	NBR		8	8	8	8
	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					
43.3	DOR.162	O-ring ⁽⁵⁾	80 x 4	NBR		-	-	-	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 pure material lobes



10/01/2008

Spare parts preloading

Position 44-48

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
44	NTF.002	Spring washer	71 x 36 x 4	DIN 2093		4	4	4	4
45	PRS.B117	Pressure disk				2	2	2	2
46	DOR.043	O-ring	64 x 4	NBR		4	4	4	4
47	DOR.021	O-ring	24 x 3	NBR		2	2	2	2
48	PRS.102	Strain screw	M16			2	2	2	2

Lifting eye bolt

Position 49

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

O-ring

Position 50

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
50	DOR.051	O-ring	280 x 6	NBR		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					

Cover and accessories

Position 53-54

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

Screws and accessories

Position 57-73

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
57	NSK.026.EE	Hex nut	M10 x 20	DIN 933		2	2	2	2
59	PSG.002	Oil sight glass	M16 x 1.5	Incl. gasket		4	4	4	4
60	DKR.005	Copper ring	C16 x 22 x 2	DIN 7603		8	8	8	8
61	NSK.088	Screw plug	M16 x 1,5	Magnetic		3	3	3	3
62	NSK.081	Screw plug	M16 x 1,5	DIN 910		3	3	3	3
64	ZNGS.086.0310	Threaded rod	M10 x 310	DIN 976		12	-	-	-
	ZNGS.086.0380	Threaded rod	M10 x 380	DIN 976		-	12	-	-
	ZNGS.086.0440	Threaded rod	M10 x 440	DIN 976		-	-	12	-
	ZNGS.086.0580	Threaded rod	M10 x 580	DIN 976		-	-	-	12
66	NMK.018	Hex nut	M10			24	24	24	24
67	NMS.003	Hex nut	M10			8	8	8	8
69	NSP.004	Spring pin	13 x 40	DIN 7346		4	4	4	4
70	NSK.010	Hex head screw	M10 x 80	DIN 933		6	6	6	6
71	NKS.001	Grease nipple	M10 x 1	For PTO-shaft		4	4	4	4
	NSK.080	Screw plug	M10 x 1	For motor shaft					
73	NSP.013	Spring pin	13 x 24	DIN 7346		16	16	16	16

Buffer chamber enlargement

Position 74

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

Accessories

Position 75-77

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
75	NSP.031	Spring pin	11 x 18	DIN 7346		2	2	2	2
76	PGP.B115	Housing flange				1	1	1	1
77	PGP.B116	Holding plate		Gear		1	1	1	1
78	NSI.013	Hex socket head screw	M10 x 25			2	2	2	2

Cartridge mechanical sealing system

Pos. 79

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
79	PBT.B002	Cartridge HD		Mild steel nitrified SiSiC / NBR		4	4	4	4
	PBT.B003	Cartridge HD		Mild steel nitrified SiSiC / FPM					
	PBT.B004	Cartridge HD		Mild steel nitrified Duronit / NBR ⁽⁴⁾					
	PBT.B005	Cartridge HD		Mild steel nitrified Duronit / FPM ⁽⁴⁾					
	PBT.B006	Cartridge HD		Mild steel nitrified SiSiC / EPDM					
	PBT.B010	Cartridge block ring single-mechanical seal		Mild steel nitrified SiSiC / NBR					
	PBT.B011	Cartridge block ring single-mechanical seal		Mild steel nitrified SiSiC / FPM					
	PBT.B012	Cartridge block ring single-mechanical seal		Mild steel nitrified carbone / NBR					
	PBT.B013	Cartridge block ring single-mechanical seal		Mild steel nitrified carbone / FPM					
	PBT.B014	Cartridge block ring single-mechanical seal		Mild steel nitrified carbone / EPDM					
	PBT.B019	Cartridge block ring single-mechanical seal		Mild steel nitrified Duronit / NBR ⁽⁴⁾					
	PBT.B037	Cartridge block ring single-mechanical seal		Mild steel nitrified SiSiC / EPDM					
	PBT.B040	Cartridge block ring single-mechanical seal		Mild steel nitrified Duronit / FPM ⁽⁴⁾					

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

Bearing seal housing + accessories

Position 82-90

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
80	PGP.B117	Holding plate		Cover		1	1	1	1
81	PRS.B113	Distance sleeve				2	2	2	2
82	PGP.B110.T7	Bearing/seal housing				1	1	1	1
83	PRS.B116	O-ring-carrier				2	2	2	2
84	NSR.043	Circlip	60 x 3,8 x 0,82			2	2	2	2
85	NGL.040.T1	Cylindrical roller bearing	60 x 100 x 28			2	2	2	2
86	DOR.053	O-ring	110 x 3	NBR		2	2	2	2
87	PRS.B115	Sleeve				2	2	2	2
88	PRS.B114.N1	Clamping sleeve		For bearing		2	2	2	2
89	NTF.004	Spring washer	50 x 25.4 x 3	DIN 2096-A50		6	6	6	6
90	NSR.042	Circlip	50 x 3.1 x 0.82			2	2	2	2

Wear plate

Position 91

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
91	PFL.B015	Wear plate	t = 10 mm			1	1	1	1
	PFL.B015.G1	Wear plate	t = 10 mm	Tungsten carbide coated					
	PFL.B015.T2	Wear plate	t = 9,7 mm						

Accessories

Position 95-105

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
95	NSK.214	Screw plug	M30 x 1.5	DIN 906		2	2	2	2
98	DKR.001	Copper ring	C 10 x 16 x 1	For motor shaft		4	4	4	4
105	DOR.035	O-ring	245 x 5	NBR		1	1	1	1
	DOR.035.EP	O-ring	245 x 5	EPDM					
	DOR.035.VI	O-ring	245 x 5	FPM					
	DOR.035.PT	O-ring	245 x 5	Silicone FEP coated					

Tools

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
	PBA.B001.T1	Lobe puller	70-280 QD	Check requirement acc. maintenance manual!		x	x	x	
	PBA.B001.T2	Lobe puller	420 QD	Check requirement acc. maintenance manual!					x
	PBA.B007.N1	Assembly tool		Lip seal					
	PBA.B006.N1	Assembly tool		Component mechanical seal					
	PBA.B020.N1	Assembly tool		Cartridge mechanical seal					

Material for connectors

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
	NSK.027	Hex socket screw	M10 x 25	DIN 933		40	48	48	56
	NUS.004	Washer	A10.5 x 20 x 2	DIN 125		40	48	48	56
	DFD.011.P	Flange gasket	70	From 6 bar up		4	-	-	-
	DFD.033.P	Flange gasket	105	From 6 bar up		-	4	-	-
	DFD.005.P	Flange gasket	140	From 6 bar up		-	-	4	-
	DFD.006.P	Flange gasket	210	From 6 bar up		-	-	-	4

Necessary spare parts for rotary lobe change

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
34	NPF.010	Key	B 14 x 9 x 28			4	-	-	-
	NPF.011	Key	B 14 x 9 x 56			-	4	-	4
	NPF.013	Key	B 14 x 9 x 100			-	-	4	-
	NPF.012	Key	B 14 x 9 x 110			-	-	-	4
43		Rotary lobe		See page 8 and follow					
43.2	DOR.039	O-ring ⁽⁵⁾	80 x 2,5	NBR		8	8	8	8
	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					
43.3	DOR.162	O-ring ⁽⁵⁾	80 x 4	NBR		-	-	-	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					
46	DOR.043	O-ring	64 x 4	NBR		4	4	4	4
47	DOR.021	O-ring	24 x 3	NBR		2	2	2	2
48	PRS.102	Strain screw	M16			2	2	2	2
50	DOR.051	O-ring	280 x 6	NBR		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					
105	DOR.035	O-ring	245 x 5	NBR		1	1	1	1
	DOR.035.EP	O-ring	245 x 5	EPDM					
	DOR.035.VI	O-ring	245 x 5	FPM					
	DOR.035.PT	O-ring	245 x 5	Silicone FEP coated					

⁽⁵⁾ for pure material lobes

Necessary spare parts for Cartridge mechanical seal change

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
34	NPF.010	Key	B 14 x 9 x 28			4	-	-	-
	NPF.011	Key	B 14 x 9 x 56			-	4	-	4
	NPF.013	Key	B 14 x 9 x 100			-	-	4	-
	NPF.012	Key	B 14 x 9 x 110			-	-	-	4
46	DOR.043	O-ring	64 x 4	NBR		4	4	4	4
47	DOR.021	O-ring	24 x 3	NBR		2	2	2	2
48	PRS.102	Strain screw	M16			2	2	2	2
50	DOR.051	O-ring	280 x 6	NBR		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					
79	PBT.B002	Cartridge HD		Mild steel nitrified SiSiC / NBR		4	4	4	4
	PBT.B003	Cartridge HD		Mild steel nitrified SiSiC / FPM					
	PBT.B004	Cartridge HD		Mild steel nitrified Duronit / NBR ⁽⁴⁾					
	PBT.B005	Cartridge HD		Mild steel nitrified Duronit / FPM ⁽⁴⁾					
	PBT.B006	Cartridge HD		Mild steel nitrified SiSiC / EPDM					
	PBT.B010	Cartridge block ring single-mechanical seal		Mild steel nitrified SiSiC / NBR					
	PBT.B011	Cartridge block ring single-mechanical seal		Mild steel nitrified SiSiC / FPM					
	PBT.B012	Cartridge block ring single-mechanical seal		Mild steel nitrified carbone / NBR					
	PBT.B013	Cartridge block ring single-mechanical seal		Mild steel nitrified carbone / FPM					
	PBT.B014	Cartridge block ring single-mechanical seal		Mild steel nitrified carbone / EPDM					
	PBT.B019	Cartridge block ring single-mechanical seal		Mild steel nitrified Duronit / NBR ⁽⁴⁾					
	PBT.B037	Cartridge block ring single-mechanical seal		Mild steel nitrified SiSiC / EPDM					
	PBT.B040	Cartridge block ring single-mechanical seal		Mild steel nitrified Duronit / FPM ⁽⁴⁾					
86	DOR.053	O-ring	110 x 3	NBR		2	2	2	2
105	DOR.035	O-ring	245 x 5	NBR		1	1	1	1
	DOR.035.EP	O-ring	245 x 5	EPDM					
	DOR.035.VI	O-ring	245 x 5	FPM					
	DOR.035.PT	O-ring	245 x 5	Silicone FEP coated					

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

Necessary spare parts for component mechanical seal change

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
21	DWD.065	Lip seal	70 x 90 x 10			4	4	4	4
22	DOR.085	O-ring	104 x 3	NBR		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					
24	DOR.085	O-ring	104 x 3	NBR		4	4	4	4
25	DOR.034	O-ring	72,5 x 6,5	NBR		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					
26	DGL.B012	Mechanical seal		Duronit ⁽⁴⁾		8	8	8	8
	DGL.B012.SC	Mechanical seal		SiSiC (silicone carbide)					
27	PRS.B101.N2.T2	Seal support				4	4	4	4
28	DOR.041	O-ring	60 x 2			12	12	12	12
29	NUS.029	Shim				6	6	6	6
34	NPF.010	Key	B 14 x 9 x 28			4	-	-	-
	NPF.011	Key	B 14 x 9 x 56			-	4	-	4
	NPF.013	Key	B 14 x 9 x 100			-	-	4	-
	NPF.012	Key	B 14 x 9 x 110			-	-	-	4
46	DOR.043	O-ring	64 x 4	NBR		4	4	4	4
47	DOR.021	O-ring	24 x 3	NBR		2	2	2	2
48	PRS.102	Strain screw	M16			2	2	2	2
50	DOR.051	O-ring	280 x 6	NBR		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					
55	DOR.005	O-ring	56 x 2			2	2	2	2
56	DOR.135	O-ring	90 x 2			2	2	2	2
86	DOR.053	O-ring	110 x 3	NBR		2	2	2	2
105	DOR.035	O-ring	245 x 5	NBR		1	1	1	1
	DOR.035.EP	O-ring	245 x 5	EPDM					
	DOR.035.VI	O-ring	245 x 5	FPM					
	DOR.035.PT	O-ring	245 x 5	Silicone FEP coated					

Necessary spare parts for wear repair with Cartridge mechanical seal

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
28	DOR.041	O-ring	60 x 2			4	4	4	4
29	NUS.029	Shim				2	2	2	2
34	NPF.010	Key	B 14 x 9 x 28			4	-	-	-
	NPF.011	Key	B 14 x 9 x 56			-	4	-	4
	NPF.013	Key	B 14 x 9 x 100			-	-	4	-
	NPF.012	Key	B 14 x 9 x 110			-	-	-	4
37	PFL.B009	Wear plate				3	3	3	3
	PFL.B009.G1	Wear plate		Tungsten carbide coated					
38	NSK.025.EE	Hex socket head screw	M10 x 16	DIN 933; stainless steel		6	6	6	6
40	DAD.007	Gasket		Asbestos-free		8	8	8	8
43		Rotary lobe		See page 8 and follow					
43.2	DOR.039	O-ring ⁽⁵⁾	80 x 2,5	NBR		8	8	8	8
	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					
43.3	DOR.162	O-ring ⁽⁵⁾	80 x 4	NBR		-	-	-	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					
46	DOR.043	O-ring	64 x 4	NBR		4	4	4	4
47	DOR.021	O-ring	24 x 3	NBR		2	2	2	2
48	PRS.102	Strain screw	M16			2	2	2	2
50	DOR.051	O-ring	280 x 6	NBR		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					

⁽⁵⁾ for pure material lobes

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

Continuation see next page

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
79	PBT.B002	Cartridge HD		Mild steel nitrified SiSiC / NBR		4	4	4	4
	PBT.B003	Cartridge HD		Mild steel nitrified SiSiC / FPM					
	PBT.B004	Cartridge HD		Mild steel nitrified Duronit / NBR ⁽⁴⁾					
	PBT.B005	Cartridge HD		Mild steel nitrified Duronit / FPM ⁽⁴⁾					
	PBT.B006	Cartridge HD		Mild steel nitrified SiSiC / EPDM					
	PBT.B010	Cartridge block ring single-mechanical seal		Mild steel nitrified SiSiC / NBR					
	PBT.B011	Cartridge block ring single-mechanical seal		Mild steel nitrified SiSiC / FPM					
	PBT.B012	Cartridge block ring single-mechanical seal		Mild steel nitrified carbone / NBR					
	PBT.B013	Cartridge block ring single-mechanical seal		Mild steel nitrified carbone / FPM					
	PBT.B014	Cartridge block ring single-mechanical seal		Mild steel nitrified carbone / EPDM					
	PBT.B019	Cartridge block ring single-mechanical seal		Mild steel nitrified Duronit / NBR ⁽⁴⁾					
	PBT.B037	Cartridge block ring single-mechanical seal		Mild steel nitrified SiSiC / EPDM					
	PBT.B040	Cartridge block ring single-mechanical seal		Mild steel nitrified Duronit / FPM ⁽⁴⁾					
86	DOR.053	O-ring	110 x 3	NBR		2	2	2	2
91	PFL.B015	Wear plate	t = 10 mm			1	1	1	1
	PFL.B015.G1	Wear plate	t = 10 mm	Tungsten carbide coated					
	PFL.B015.T2	Wear plate	t = 9,7 mm						
105	DOR.035	O-ring	245 x 5	NBR		1	1	1	1
	DOR.035.EP	O-ring	245 x 5	EPDM					
	DOR.035.VI	O-ring	245 x 5	FPM					
	DOR.035.PT	O-ring	245 x 5	Silicone FEP coated					
	DFD.011.P	Flange gasket	70	From 6 bar up		4	-	-	-
	DFD.033.P	Flange gasket	105	From 6 bar up		-	4	-	-
	DFD.005.P	Flange gasket	140	From 6 bar up		-	-	4	-
	DFD.006.P	Flange gasket	210	From 6 bar up		-	-	-	4

Necessary spare parts for wear repair with component mechanical seal

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
21	DWD.065	Lip seal	70 x 90 x 10			4	4	4	4
22	DOR.085	O-ring	104 x 3	NBR		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					
24	DOR.085	O-ring	104 x 3	NBR		4	4	4	4
25	DOR.034	O-ring	72,5 x 6,5	NBR		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					
26	DGL.B012	Mechanical seal		Duronit ⁽⁴⁾		8	8	8	8
	DGL.B012.SC	Mechanical seal		SiSiC (silicone carbide)					
27	PRS.B101.N2.T2	Seal support				4	4	4	4
28	DOR.041	O-ring	60 x 2			12	12	12	12
29	NUS.029	Shim				6	6	6	6
34	NPF.010	Key	B 14 x 9 x 28			4	-	-	-
	NPF.011	Key	B 14 x 9 x 56			-	4	-	4
	NPF.013	Key	B 14 x 9 x 100			-	-	4	-
	NPF.012	Key	B 14 x 9 x 110			-	-	-	4
37	PFL.B009	Wear plate				3	3	3	3
	PFL.B009.G1	Wear plate		Tungsten carbide coated					
38	NSK.025.EE	Hex socket head screw	M10 x 16	DIN 933; stainless steel		6	6	6	6
40	DAD.007	Gasket		Asbestos-free		8	8	8	8
43		Rotary lobe		See page 8 and follow					
43.2	DOR.039	O-ring ⁽⁵⁾	80 x 2,5	NBR		8	8	8	8
	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					
43.3	DOR.162	O-ring ⁽⁵⁾	80 x 4	NBR		-	-	-	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					
46	DOR.043	O-ring	64 x 4	NBR		4	4	4	4
47	DOR.021	O-ring	24 x 3	NBR		2	2	2	2
48	PRS.102	Strain screw	M16			2	2	2	2
50	DOR.051	O-ring	280 x 6	NBR		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					
55	DOR.005	O-ring	56 x 2			2	2	2	2
56	DOR.135	O-ring	90 x 2			2	2	2	2

⁽⁵⁾ for pure material lobes

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

Continuation see next page

Pos.	Part number	Description	Dimensions	Notes	Qty.	140	210	280	420
86	DOR.053	O-ring	110 x 3	NBR		2	2	2	2
91	PFL.B015	Wear plate	t = 10 mm			1	1	1	1
	PFL.B015.G1	Wear plate	t = 10 mm	Tungsten carbide coated					
	PFL.B015.T2	Wear plate	t = 9,7 mm						
105	DOR.035	O-ring	245 x 5	NBR		1	1	1	1
	DOR.035.EP	O-ring	245 x 5	EPDM					
	DOR.035.VI	O-ring	245 x 5	FPM					
	DOR.035.PT	O-ring	245 x 5	Silicone FEP coated					

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