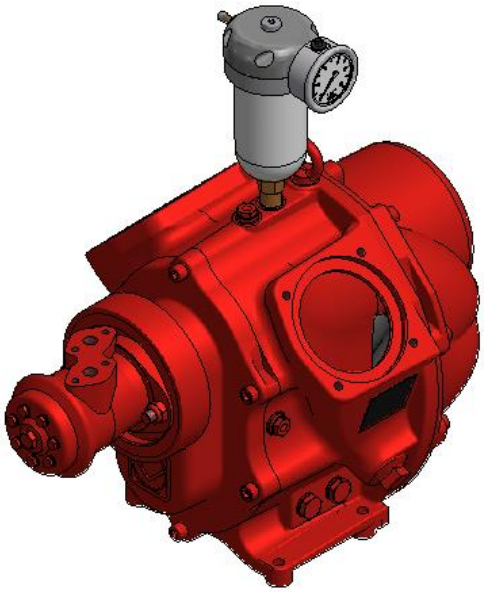
Spare parts list

Rotary lobe pump

IQ112 hydraulic motor

ENGINEERED TO WORK



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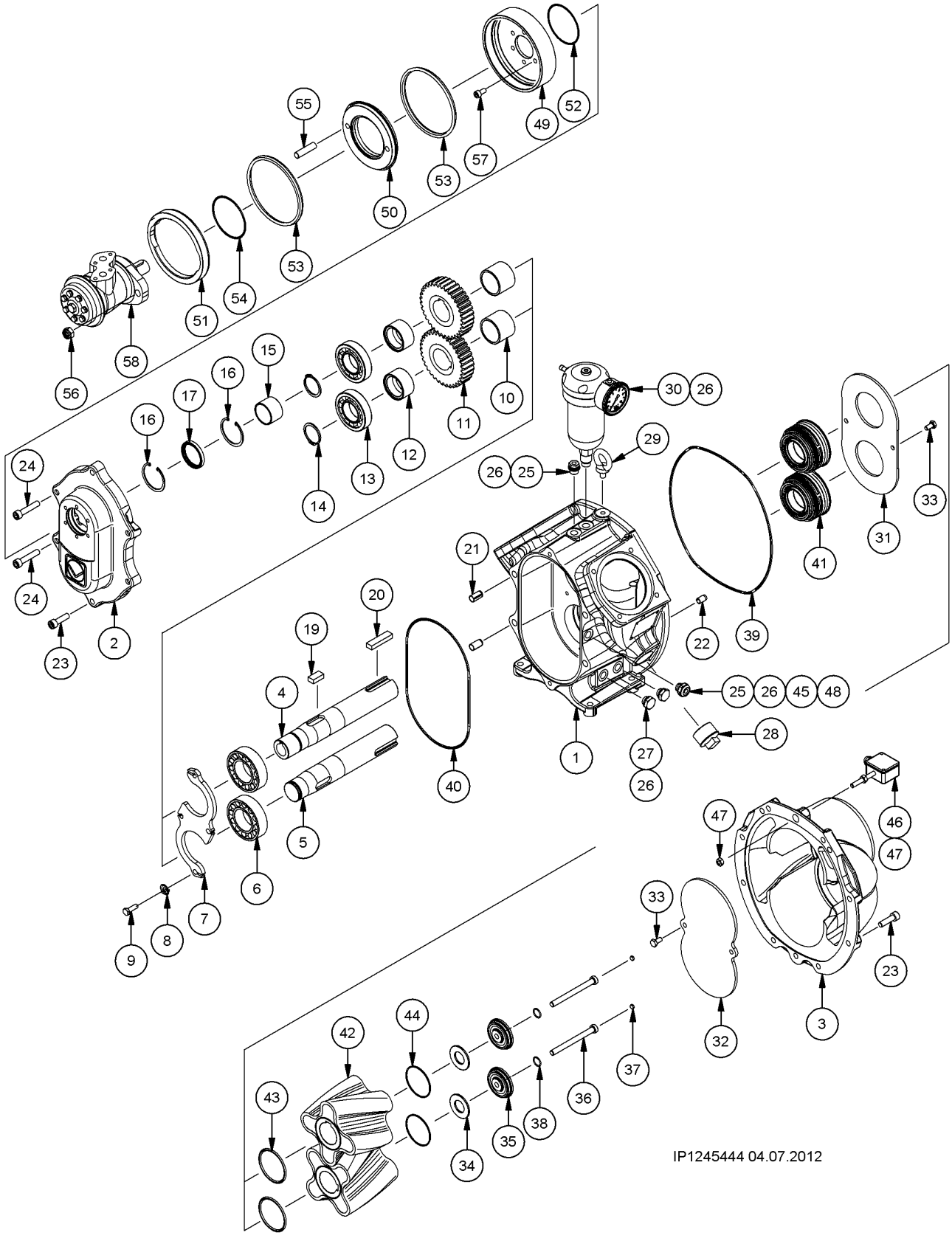
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Exploded view



Housing

Position 1-3

Pos.	Part number	Description	Dimensions	Notes	Rep.	81	114
1	PGP0238	Gearbox housing				1	
2	PGP0237	Bearing housing		Drive		1	1
3	PGP0242	IQ cover	IQ112-81			1	-
	PGP0240	IQ cover	IQ112-114			-	1

Shaft

Position 4-5

Pos.	Part number	Description	Dimensions	Notes	Rep.	81	114
4	PWQ0073	Shaft	MH			1	
5	PWQ0069	Shaft	MK			1	

Installation parts

Position 6-17

Pos.	Part number	Description	Dimensions	Notes	Rep.	81	114
6	NLG.032	Spherical roller bearing	45 x 85 x 23			2	
7	PFL0120	Fixing sheet				1	
8	NUS.116	Locking washer	8,4 x 22	DIN 432		4	
9	NSK.018	Hexagon head screw	M 8 x 20	DIN 933		4	
10	PRS.D002	Spacer washer	45 x 53 x 40			2	
11	PZH0016	Gear				2	
12	PRS.D003	Spacer washer	41 x 54 x 28			2	
13	NLG.031	Cylindrical roller bearing	40 x 82 x 18			2	
14	NSR.016	Retaining ring	40 x 2,5			2	
15	NIR.027	Inner ring	JR 40 x 45 x 30			1	
16	NSR0001	Retaining ring	55 x 2			2	
17	DWD0001	Radial shaft seal ring	WASY 55 x 45 x 7			1	

Fitting key

Position 19-20

Pos.	Part number	Description	Dimensions	Notes	Rep.	81	114
19	NPF.010	Fitting key	B 14 x 9 x 28	DIN 6885		2	
20	NPF.011	Fitting key	B 14 x 9 x 56	DIN 6885		2	

Screws and accessories

Position 21-29

Pos.	Part number	Description	Dimensions	Notes	Rep.	81	114
21	NSP.013	Spring pin	13 x 24	ISO 13337		4	
22	NSP.021	Spring pin	11 x 18	ISO 13337		3	
23	NSI.008	Hexagon socket head cap screw	M 10 x 35	ISO 4762		10	
24	NSI.002	Hexagon socket head cap screw	M 10 x 50	ISO 4762		4	
25	NSK.081	Hexagon head screw plug	M 16			2	
				(6 ATEX/ Option		(1)	
26	DKR.005	Sealing ring	A 16 x 22 x 2			4	
				(6 ATEX/ Option		(3)	
27	NSK.088	Hexagon head screw plug	M 16	DIN 910		2	
28	NVE.030	Blind plug	1 ¼ inch			2	
29	NKS.014	Lifting eye bolt	M 10	DIN 580		1	

(6 If an oil sight glass is screwed in, pos. 25 + 26 is omitted here.

Buffer chamber enlargement

Position 30

Pos.	Part number	Description	Dimensions	Notes	Rep.	81	114
30	PSG.014	Buffer fluid tank		Pressurized		1	
	PSG.014.T1	Quenching fluid tank		Ventilated (option)			
	PSV.002.N1	Pressure valve		(Option)			

Wear plate

Position 31-33

Pos.	Part number	Description	Dimensions	Notes	Rep.	81	114
31	PFL0118	Wear plate	4,8 mm			1	
32	PFL0119	Wear plate	5,8 mm			1	
33	NSK0006	Hexagon head screw	M 8 x 16	DIN 933		4	

Preload

Position 34-37

Pos.	Part number	Description	Dimensions	Notes	Rep.	81	114
34	NTF.004	Spring washer	A 50 x 25,4 x 3	DIN 2093		2	
35	PRS0388	Pressure disc				2	
36	NSI.099	Hexagon socket head cap screw	M10 x 70	DIN 6912		2	-
	NSI0097	Hexagon socket head cap screw	M10 x 110	DIN 6912		-	2
37	NST.030	Plug				2	2

O-ring

Position 38-40

Pos.	Part number	Description	Dimensions	Notes	Rep.	81	114
38	DOR.055	O-ring	16 x 2	NBR		2	
	DOR.055.EP	O-ring	16 x 2	EPDM			
	DOR.055.PT	O-ring	16 x 2	MVQ FEP coated			
	DOR.055.VI	O-ring	16 x 2	FPM			
39	DOR0106	O-ring	Ø 280 x 3	NBR		1	
	DOR0121	O-ring	Ø 280 x 3	EPDM			
	DOR0122	O-ring	Ø 280 x 3	MVQ FEP coated			
	DOR0123	O-ring	Ø 280 x 3	FPM			
40	DOR0107	O-ring	Ø 233 x 3	NBR		1	
	DOR0120	O-ring	Ø 233 x 3	FPM			

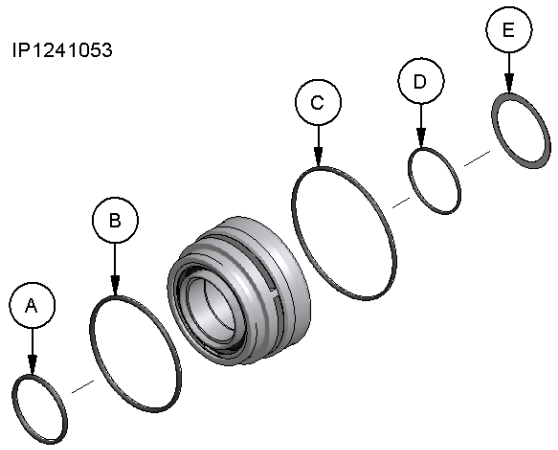
Cartridge mechanical seal

Position 41

Pos.	Part number	Description	Dimensions	Notes	Rep.	81	114
Steel, nitrided; single-mechanical seal:							
41	PBT.D051	Cartridge block ring		WC/SiC; HNBR		2	
	PBT.D050	Cartridge block ring		CrO/Duronit(4; HNBR			
	PBT0101	Cartridge block ring		CrO/Duronit(4; FPM			
Steel, nitrided; double mechanical seal:							
41	PBT.D051.D	Cartridge block ring		WC/SiC; HNBR		2	
	PBT.D050.D	Cartridge block ring		CrO/Duronit(4; HNBR			
	PBT0102	Cartridge block ring		CrO/Duronit(4; FPM			
1.4571; single-mechanical seal:							
41	PBT0104	Cartridge block ring		WC/SiC; HNBR, HNBR		2	
	PBT0105	Cartridge block ring		WC/SiC; FPM, HNBR			

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

"Loose parts" for Cartridge mechanical seal



Pos.	Part number	Description	Dimensions	Notes		Qty.
A (10	DOR.072	O-ring	45 x 3	NBR		2
	DOR.072.VI	O-ring	45 x 3	FPM		
B	DOR.058	O-ring	78 x 3	NBR		2
C	DOR.082	O-ring	90 x 2.5	NBR		2
	DOR.082.EP	O-ring	90 x 2.5	EPDM		
	DOR.082.VI	O-ring	90 x 2.5	FPM		
	DOR.082.PT	O-ring	90 x 2.5	MVQ; FEP coated		
D	DOR.068	O-ring	45 x 2	NBR		2
E	NUS.033	Shim	45 x 55 x 0.3	DIN 988		2

(10 only in "dry buffer chamber", and as an option for custom Cartridge mechanical seal

Rotary lobe HiFo

Position 42

Pos.	Part number	Description	Dimensions	Notes	Rep.	81	114
NBR							
42	PKD0124	Rotary lobe	112-81 4K45L HiFlo	NBR		1	-
	PKD0125	Rotary lobe	112-81 4K45R HiFlo	NBR		1	-
	PKD0122	Rotary lobe	112-114 4K45L HiFlo	NBR		-	1
	PKD0123	Rotary lobe	112-114 4K45R HiFlo	NBR		-	1
EPDM-SL							
42	PKD0148	Rotary lobe	112-81 4K45L HiFlo	EPDM-SL		1	-
	PKD0149	Rotary lobe	112-81 4K45R HiFlo	EPDM-SL		1	-
	PKD0152	Rotary lobe	112-114 4K45L HiFlo	EPDM-SL		-	1
	PKD0153	Rotary lobe	112-114 4K45R HiFlo	EPDM-SL		-	1
FPM							
42	PKD0150	Rotary lobe	112-81 4K45L HiFlo	FPM		1	-
	PKD0151	Rotary lobe	112-81 4K45R HiFlo	FPM		1	-
	PKD0154	Rotary lobe	112-114 4K45L HiFlo	FPM		-	1
	PKD0155	Rotary lobe	112-114 4K45R HiFlo	FPM		-	1
POM							
42	PKD0038	Rotary lobe (3	112-114 4K45L HiFlo	POM		-	1
	PKD0039	Rotary lobe (3	112-114 4K45R HiFlo	POM		-	1

(3 + O-ring for solid material lobe

O-ring for solid material lobes

Position 43-44

Pos.	Part number	Description	Dimensions	Notes	Rep.	81	114
43	DOR.043	O-ring (5	64 x 4	NBR		2	2
	DOR.043.EP	O-ring (5	64 x 4	EPDM			
	DOR.043.PT	O-ring (5	64 x 4	MVQ FEP coated			
	DOR.043.VI	O-ring (5	64 x 4	FPM			
44	DOR.032	O-ring (5	62 x 2	NBR		2	2
	DOR0124	O-ring (5	62 x 2	EPDM			
	DOR0125	O-ring (5	62 x 2	MVQ FEP coated			
	DOR0126	O-ring (5	62 x 2	FPM			

(5 for solid material lobes

Installation parts

Position 45-47

Pos.	Part number	Description	Dimensions	Notes	Rep.	81	114
ATEX:							
45	PSG.017	Oil sight glass	M 16 x 1,5	(6		1	
46	SSS.073.N1	Temperature sensor				1	
47	NMS.002.EE	Hexagon nut	M 8	DIN 934		2	
Without Temperature sensor:							
46	NST0035	Plug				1	
47	-	-				-	

(6 If an oil sight glass is screwed in, pos. 25 + 26 is omitted here.

Option

Position 48

Pos.	Part number	Description	Dimensions	Notes	Rep.	81	114
48	PSG.002	Oil sight glass	M 16 x 1.5	Brass (6		1	

(6 If an oil sight glass is screwed in, pos. 25 + 26 is omitted here.

Hydraulic motor

Position 49-58

Pos.	Part number	Description	Dimensions	Notes	Rep.	81	114
49	PRS.D023	Housing				1	
50	PRS.D024.N1	Fixing plate				1	
51	PRS.D022.N1	Support ring				1	
52	DOR.117	O-ring	78 x 2			1	
53	DOR.113	O-ring	130 x 8			1	
54	DOR.039	O-ring	80 x 2,5			2	
55	NGS.085	Stud	M 12 x 35	DIN 938		2	
56	NMK.002	Hexagon nut	M 12	DIN 985		2	
57	NSI.135	Hexagon socket head cap screw	M 8 x 16	ISO 4762		6	
58	AOM.008	Hydraulic motor	OMR; 25 mm	100 cm^3/U		1	
	AOM.011	Hydraulic motor	OMR; 25 mm	80 cm^3/U			
	AOM.012	Hydraulic motor	OMR; 25 mm	50 cm^3/U			
	AOM.013	Hydraulic motor	OMR; 25 mm	125 cm^3/U			
	AOM.052	Hydraulic motor	OMP; 25 mm	50 cm^3/U			

Material for connectors

Pos.	Part number	Description	Dimensions	Notes	Rep.	81	114
	DOR0108	O-ring				1	
	PFL0121	Mounting bracket				2	
	NSK.027	Hexagon head screw	M 10 x 25			4	

Quantity for a connector

Tools

Pos.	Part number	Description	Dimensions	Notes	Rep.	81	114
	PBA.D001.TL.N1	Lobe puller		Long			
	WKZ0455	Assembly tool		Cartridge		x	
	PBA0001	Assembly tool		Contained in WKZ0455		(1)	
	NSI.155	Hexagon socket head cap screw	M 5 x 12			(2)	
	NSK.155	Hexagon head screw	M 8 x 80			(3)	

Required spare parts for rotary lobe change

Pos.	Part number	Description	Dimensions	Notes	Rep.	81	114
20	NPF.011	Fitting key	B 14 x 9 x 56	DIN 6885		2	
36	NSI.099	Hexagon socket head cap screw	M10 x 70	DIN 6912		2	-
	NSI0097	Hexagon socket head cap screw	M10 x 110	DIN 6912		-	2
37	NST.030	Plug				2	2
39	DOR0106	O-ring	Ø 280 x 3	NBR		1	
	DOR0121	O-ring	Ø 280 x 3	EPDM			
	DOR0122	O-ring	Ø 280 x 3	MVQ FEP coated			
	DOR0123	O-ring	Ø 280 x 3	FPM			
38	DOR.055	O-ring	16 x 2	NBR		2	
	DOR.055.EP	O-ring	16 x 2	EPDM			
	DOR.055.PT	O-ring	16 x 2	MVQ FEP coated			
	DOR.055.VI	O-ring	16 x 2	FPM			
NBR							
42	PKD0124	Rotary lobe	112-81 4K45L HiFlo	NBR		1	-
	PKD0125	Rotary lobe	112-81 4K45R HiFlo	NBR		1	-
	PKD0122	Rotary lobe	112-114 4K45L HiFlo	NBR		-	1
	PKD0123	Rotary lobe	112-114 4K45R HiFlo	NBR		-	1
EPDM-SL							
42	PKD0148	Rotary lobe	112-81 4K45L HiFlo	EPDM-SL		1	-
	PKD0149	Rotary lobe	112-81 4K45R HiFlo	EPDM-SL		1	-
	PKD0152	Rotary lobe	112-114 4K45L HiFlo	EPDM-SL		-	1
	PKD0153	Rotary lobe	112-114 4K45R HiFlo	EPDM-SL		-	1
FPM							
42	PKD0150	Rotary lobe	112-81 4K45L HiFlo	FPM		1	-
	PKD0151	Rotary lobe	112-81 4K45R HiFlo	FPM		1	-
	PKD0154	Rotary lobe	112-114 4K45L HiFlo	FPM		-	1
	PKD0155	Rotary lobe	112-114 4K45R HiFlo	FPM		-	1
POM							
42	PKD0038	Rotary lobe (3	112-114 4K45L HiFlo	POM		-	1
	PKD0039	Rotary lobe (3	112-114 4K45R HiFlo	POM		-	1
43	DOR.043	O-ring (5	64 x 4	NBR		2	2
	DOR.043.EP	O-ring (5	64 x 4	EPDM			
	DOR.043.PT	O-ring (5	64 x 4	MVQ FEP coated			
	DOR.043.VI	O-ring (5	64 x 4	FPM			
44	DOR.032	O-ring (5	62 x 2	NBR		2	2
	DOR0124	O-ring (5	62 x 2	EPDM			
	DOR0125	O-ring (5	62 x 2	MVQ FEP coated			
	DOR0126	O-ring (5	62 x 2	FPM			

(3 + O-ring for solid material lobe
(5 for solid material lobes

Required spare parts for mechanical seal change

Pos.	Part number	Description	Dimensions	Notes	Rep.	81	114
36	NSI.099	Hexagon socket head cap screw	M10 x 70	DIN 6912		2	-
	NSI0097	Hexagon socket head cap screw	M10 x 110	DIN 6912		-	2
37	NST.030	Plug				2	2
39	DOR0106	O-ring	Ø 280 x 3	NBR		1	
	DOR0121	O-ring	Ø 280 x 3	EPDM			
	DOR0122	O-ring	Ø 280 x 3	MVQ FEP coated			
	DOR0123	O-ring	Ø 280 x 3	FPM			
38	DOR.055	O-ring	16 x 2	NBR		2	
	DOR.055.EP	O-ring	16 x 2	EPDM			
	DOR.055.PT	O-ring	16 x 2	MVQ FEP coated			
	DOR.055.VI	O-ring	16 x 2	FPM			
Steel, nitrided; single-mechanical seal:							
41	PBT.D051	Cartridge block ring		WC/SiC; HNBR		2	
	PBT.D050	Cartridge block ring		CrO/Duronit(4; HNBR			
	PBT0101	Cartridge block ring		CrO/Duronit(4; FPM			
Steel, nitrided; double mechanical seal:							
41	PBT.D051.D	Cartridge block ring		WC/SiC; HNBR		2	
	PBT.D050.D	Cartridge block ring		CrO/Duronit(4; HNBR			
	PBT0102	Cartridge block ring		CrO/Duronit(4; FPM			
1.4571; single-mechanical seal:							
41	PBT0104	Cartridge block ring		WC/SiC; HNBR, HNBR		2	
	PBT0105	Cartridge block ring		WC/SiC; FPM, HNBR			

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

Required spare parts for wear part replacement

Pos.	Part number	Description	Dimensions	Notes	Rep.	81	114
20	NPF.011	Fitting key	B 14 x 9 x 56	DIN 6885		2	
31	PFL0118	Wear plate	4,8 mm			1	
32	PFL0119	Wear plate	5,8 mm			1	
33	NSK0006	Hexagon head screw	M 8 x 16	DIN 933		4	
36	NSI.099	Hexagon socket head cap screw	M10 x 70	DIN 6912		2	-
	NSI0097	Hexagon socket head cap screw	M10 x 110	DIN 6912		-	2
37	NST.030	Plug				2	2
39	DOR0106	O-ring	Ø 280 x 3	NBR		1	
	DOR0121	O-ring	Ø 280 x 3	EPDM			
	DOR0122	O-ring	Ø 280 x 3	MVQ FEP coated			
	DOR0123	O-ring	Ø 280 x 3	FPM			
38	DOR.055	O-ring	16 x 2	NBR		2	
	DOR.055.EP	O-ring	16 x 2	EPDM			
	DOR.055.PT	O-ring	16 x 2	MVQ FEP coated			
	DOR.055.VI	O-ring	16 x 2	FPM			
Steel, nitrided; single-mechanical seal:							
41	PBT.D051	Cartridge block ring		WC/SiC; HNBR		2	
	PBT.D050	Cartridge block ring		CrO/Duronit(4; HNBR			
	PBT0101	Cartridge block ring		CrO/Duronit(4; FPM			
Steel, nitrided; double mechanical seal:							
41	PBT.D051.D	Cartridge block ring		WC/SiC; HNBR		2	
	PBT.D050.D	Cartridge block ring		CrO/Duronit(4; HNBR			
	PBT0102	Cartridge block ring		CrO/Duronit(4; FPM			
1.4571; single-mechanical seal:							
41	PBT0104	Cartridge block ring		WC/SiC; HNBR, HNBR		2	
	PBT0105	Cartridge block ring		WC/SiC; FPM, HNBR			
NBR							
42	PKD0124	Rotary lobe	112-81 4K45L HiFlo	NBR		1	-
	PKD0125	Rotary lobe	112-81 4K45R HiFlo	NBR		1	-
	PKD0122	Rotary lobe	112-114 4K45L HiFlo	NBR		-	1
	PKD0123	Rotary lobe	112-114 4K45R HiFlo	NBR		-	1
EPDM-SL							
42	PKD0148	Rotary lobe	112-81 4K45L HiFlo	EPDM-SL		1	-
	PKD0149	Rotary lobe	112-81 4K45R HiFlo	EPDM-SL		1	-
	PKD0152	Rotary lobe	112-114 4K45L HiFlo	EPDM-SL		-	1
	PKD0153	Rotary lobe	112-114 4K45R HiFlo	EPDM-SL		-	1
FPM							
42	PKD0150	Rotary lobe	112-81 4K45L HiFlo	FPM		1	-
	PKD0151	Rotary lobe	112-81 4K45R HiFlo	FPM		1	-
	PKD0154	Rotary lobe	112-114 4K45L HiFlo	FPM		-	1
	PKD0155	Rotary lobe	112-114 4K45R HiFlo	FPM		-	1

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

Continuation see next page

Pos.	Part number	Description	Dimensions	Notes	Rep.	81	114
POM							
42	PKD0038	Rotary lobe (3	112-114 4K45L HiFlo	POM		-	1
	PKD0039	Rotary lobe (3	112-114 4K45R HiFlo	POM		-	1
43	DOR.043	O-ring (5	64 x 4	NBR		2	2
	DOR.043.EP	O-ring (5	64 x 4	EPDM			
	DOR.043.PT	O-ring (5	64 x 4	MVQ FEP coated			
	DOR.043.VI	O-ring (5	64 x 4	FPM			
44	DOR.032	O-ring (5	62 x 2	NBR		2	2
	DOR0124	O-ring (5	62 x 2	EPDM			
	DOR0125	O-ring (5	62 x 2	MVQ FEP coated			
	DOR0126	O-ring (5	62 x 2	FPM			

(3 + O-ring for solid material lobe
(5 for solid material lobes

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