

Spare Parts List Ws+ Pump

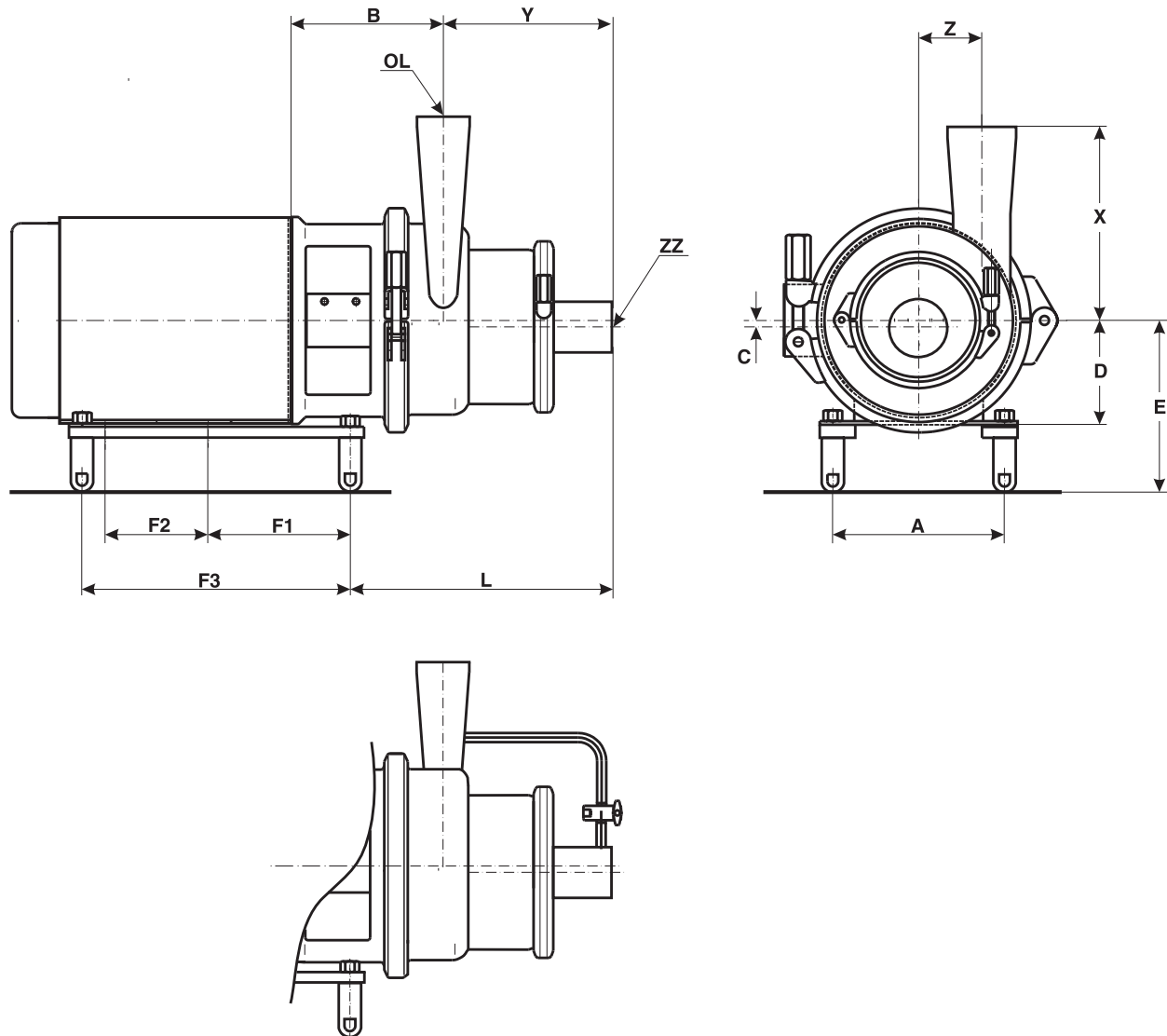


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7.1 Pump Dimensions

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Inlet/Outlet Size	Bevel Seat	Threaded PV	TRI Clamp	APC Clamp	ISS	Male Pipe Thread	150#Flange
2.0" (51 mm)	0.750" (19 mm)	0.750" (19 mm)	1.125" (29 mm)	0.750" (19 mm)	1.125" (29 mm)	1.687" (43 mm)	1.187" (30 mm)
2.5" (63 mm)	0.844" (21 mm)	0.844" (21 mm)	1.125" (29 mm)	0.844" (21 mm)	1.125" (29 mm)	2.187" (55 mm)	1.187" (30 mm)
3.0" (76 mm)	0.906" (23 mm)	0.906" (23 mm)	1.125" (29 mm)	0.906" (23 mm)	1.125" (29 mm)	2.250" (57 mm)	1.500" (38 mm)

7.1 Pump Dimensions

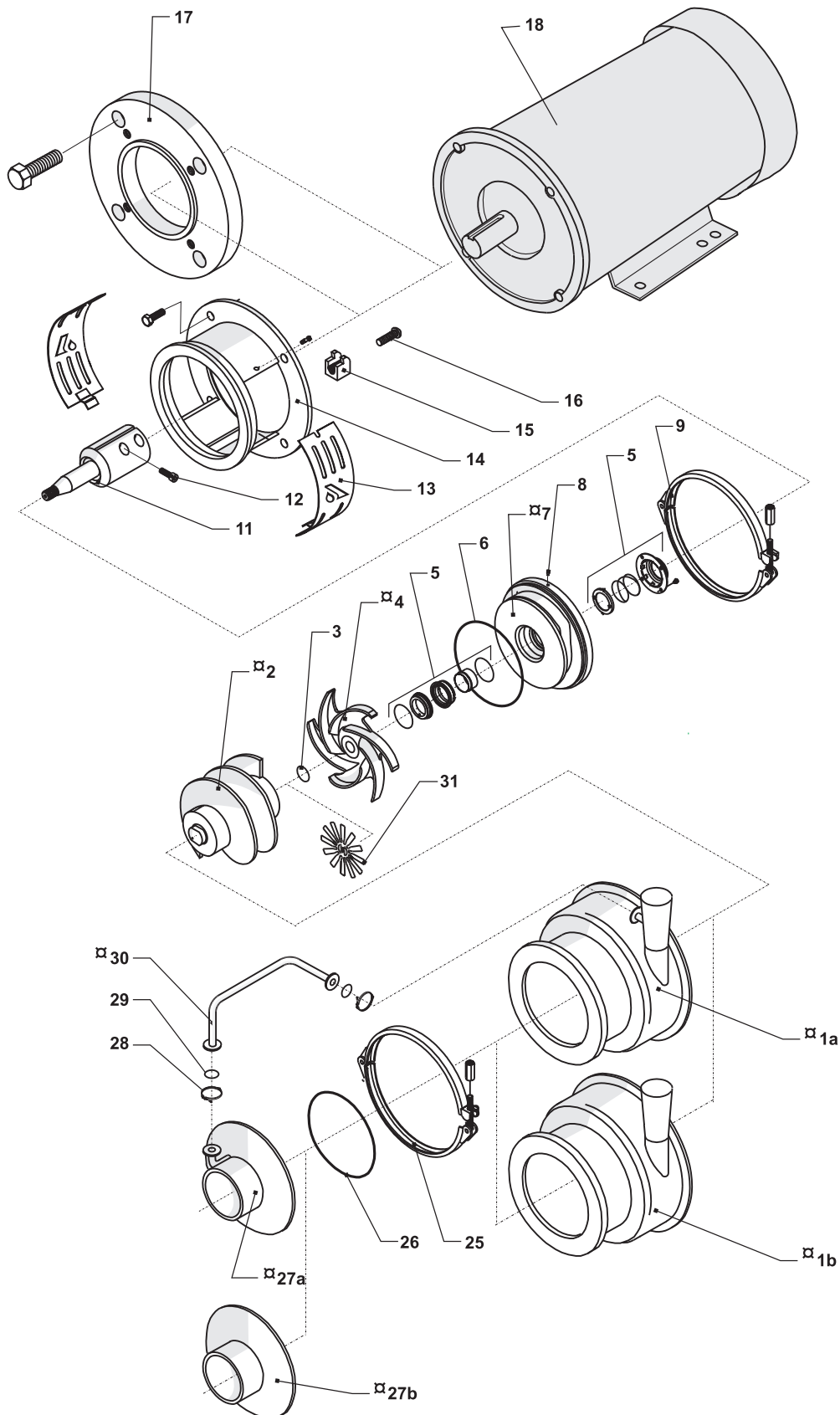
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Pump Type	Motor Size	F1	F2	F3	D	A	E	L	C	B	ZZ	OL	Z	X (Butt weld)	Y (Butt weld)
Ws+20/15	143TC		4.00 (101.6)												
	145TC	3.75 (93.5)	5.00 (127)	10.25 (260.4)	3.50 (88.9)	5.50 (139.7)	7.00 (177.8)	9.46 (240)		5.98 (152)					
	182TC		4.50 (114.3)												
	184TC	4.37 (111)	5.50 (139.7)	11.37 (288.8)	4.50 (114.3)	7.50 (190.5)	8.00 (203.2)	13.5 (342.9)	0.315 (8)		2.5 (63.5)	2.0 (51.6)	2.60 (66)	8.47 (215)	7.48 (190)
	213TC		5.50 (139.7)							7.01 (178)					
	215TC	5.38 (136.7)	7.0 (177.8)	13.88 (352.6)	5.25 (133.4)	8.50 (215.9)	8.75 (222.3)	13.36 (339.3)							
Ws+30/30	184TC	4.37 (111)	5.50 (139.7)	11.37 (288.8)	4.50 (114.3)	7.50 (190.5)	8.00 (203.2)	12.12 (308)							
	213TC		5.50 (139.7)												
	215TC	5.38 (136.7)	7.0 (177.8)	13.88 (352.6)	5.25 (133.4)	8.50 (215.9)	8.75 (222.3)	11.86 (301)	0.39 (10)	6.14 (156)	2.5 (63.5)	2.0 (51.6)	3.27 (83)	9.06 (230)	7.60 (193)
	254TC		8.25 (209.6)												
	256TC	6.50 (165.1)	10.00 (254)	18.00 (457.2)	6.25 (158.8)	10.00 (254)	9.75 (267.7)	12.12 (308)		6.77 (172)					
Ws+44/50	254TC		8.25 (209.6)												
	256TC		10.00 (254)	18.00 (457.2)	6.25 (158.8)	10.00 (254)	9.75 (267.7)	14.81 (376)		7.28 (185)					
	284TSC	6.50 (165.1)	9.50 (241.3)												
	286TSC		11.00 (279.4)	19.00 (482.6)	7.00 (177.8)	11.00 (279.4)	10.50 (266.7)	14.64 (372)	0.51 (13)	6.61 (168)	3.0 (76.1)	2.0 (51.6)	3.94 (100)	8.66 (220)	9.78 (248)
	324TSC		10.50 (266.7)												
	326TSC	7.00 (177.8)	12.00 (304.8)	20.50 (520.7)	8.00 (203.2)	12.50 (317.5)	11.50 (292.1)	15.71 (399)		7.68 (195)					

Tolerances:	Y: +0" -0.197"	X: +0.197" -0"	OL;ZZ: nominal	B: ±0.197"	L: ±0.197"	Others: ±0.079"
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7.2 Spare Parts Compl.

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7.2 Spare Parts Comp.

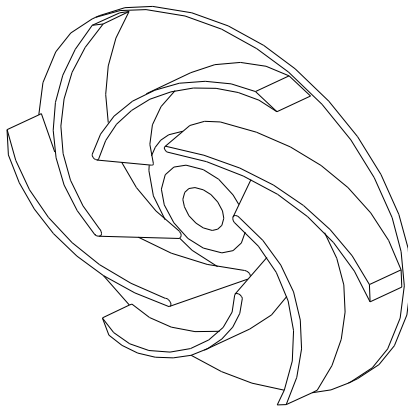
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			Pump Type		
			Ws+20/15	Ws+30/30	Ws+44/50
Pos	Qty	Description	Part No.		
1a	1	Pump casing	L804669	L804670	L804671
1b	1	Pump casing	L182857	L182858	L182859
2	1	Air screw	L804675	L804676	L804677
3	1	O-ring	s/p 9		
4	1	Impeller	s/p 6		
5	1	Shaft seal	s/p 7/8		
6	1	O-ring	s/p 9		
7	1	Back Flange	N/A	L260950	L260954
8	1	Pin	-----	L772493	L772493
9	1	Clamp ring	L188430	L188436	L188432
11	1	Shaft	s/p 10		
12	2	Screw	s/p 10		
13	2	Shaft guard	s/p 11		
14	1	Motor adaptor	s/p 11		
15	2	Bracket	-----	L268499	L268499
16	2	Screw	-----	L701942	L701942
17	1	Flange Adapter	s/p 11		
18	1	Motor	See order		
25	1	Clamp ring	L169050	L188430	L804665
26	1	O-ring	s/p 9		
27a	1	Front cover	L804672	L804673	L804674
27b	1	Front cover	L808296	L808297	L808298
28	2	Clamp ring	L771837	L771837	L771837
29	2	Gasket	s/p 9		
30	1	Re-circulation connection	L808288	L808289	L808290
31	1	Spacer/Plastic star	L259776	L259776	L260406
--	--	Frame	s/p 12		

S/p XX = see page XX

7.3 Impeller

Ws+



Ws+20/15
Ws+30/30



Ws+44/50

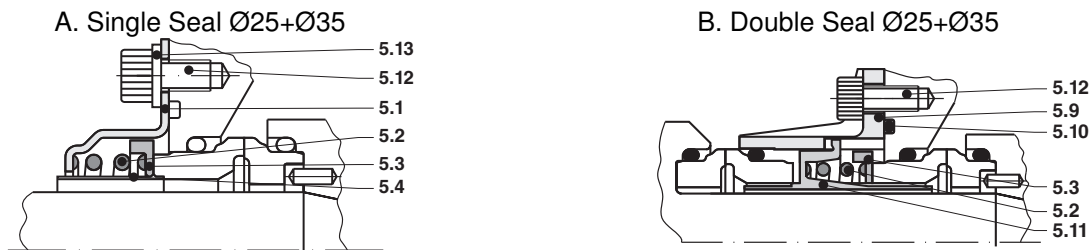
Impeller Ø	Pump type		
	Ws+20/15	Ws+30/30	Ws+44/50
Part No.			
8.7" / Ø220			L253777
8.5" / Ø215			L253778
8.3" / Ø210			L253779
8.1" / Ø205			L253780
7.9" / Ø200			L253781
7.7" / Ø195			L253782
7.5" / Ø190			L253783
7.3" / Ø185			L253784
7.1" / Ø180			L253785
6.9" / Ø175		L267000	L253786
6.7" / Ø170		L267001	L253787
6.5" / Ø165		L267002	L253788
6.3" / Ø160		L267003	L253789
6.1" / Ø155		L267004	
5.9" / Ø150		L267005	
5.7" / Ø145		L267006	
5.5" / Ø140	L253767*	L267007	
5.3" / Ø135	L253768	L267008	
5.1" / Ø130	L253769	L267009	
4.9" / Ø125	L253770	L267010	
4.7" / Ø120	L253771	L267011	
4.5" / Ø115	L253772		
4.3" / Ø110	L253773		
4.1" / Ø105	L253774		
3.9" / Ø100	L253775		
3.7" / Ø95	L253776		

*5.5" / Ø142

7.4 Shaft Seal

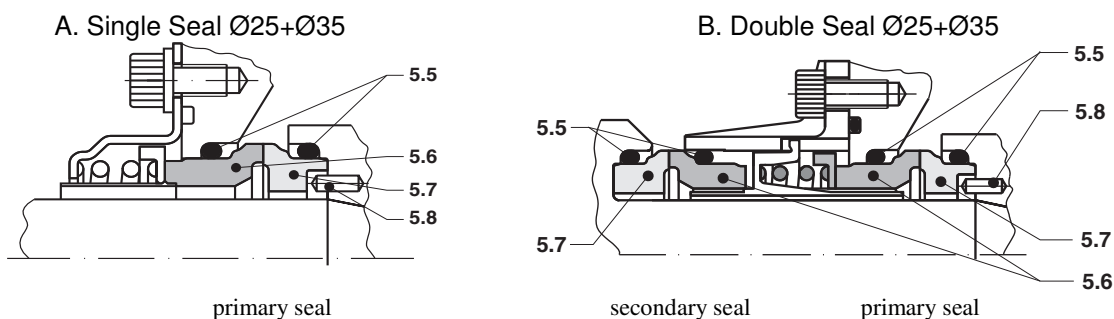
Ws+

7.4.1 Fixing Kit



Fixing Kit				Shaft size	
				Ø25	Ø35
Pos	Description	Items	Material	Part No.	
A	Single seal	Complete	-----	L772460	L772465
		Pos 5.1 Seal housing	AISI 316		
		Pos 5.2 Spring	AISI 316		
		Pos 5.3 Pressure ring	AISI 316		
		Pos 5.4 Drain pipe	PTFE	(L773100)	(L773101)
B	Double seal	Complete	-----	L194448	L194449
		Pos 5.2 Spring	AISI 316		
		Pos 5.3 Pressure ring	AISI 316		
		Pos 5.9 Seal housing	AISI 316		
		Pos 5.11 Pressure ring	AISI 316		
5.10		O-ring	EPDM	L772470	L771362
5.12		4 Screws M6x10	AISI 316	L770496	L770496

7.4.2 Face Kit



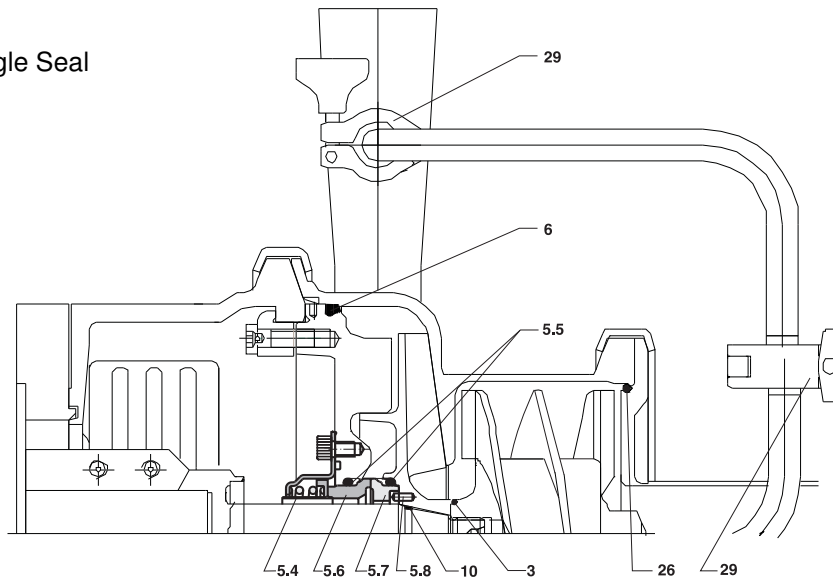
Shaft seal				Shaft size	
				Ø25	Ø35
Pos	Description	Items	Material	Part No.	
A	Schaftdichtung Set SiC/Car EPDM	Complete	EPDM	L772461	L772466
		Pos 5.5 2 off o-rings	Car		
		Pos 5.6 Stationary seal	SiC		
		Pos 5.7 Rotary seal	AISI316L		
B	Face Kit SiC/Car EPDM	Pos 5.8 pin			
		Complete	FPM (Viton)	L772462	L772467
		Pos 5.5 2 off o-rings	Car		
		Pos 5.6 Stationary seal	SiC		
A	Schaftdichtung Set SiC/Car FPM (Viton)	Pos 5.7 Rotary seal	AISI316L		
		Pos 5.8 pin			
		Complete	EPDM	L772463	L772468
		Pos 5.5 2 off o-rings	SiC		
B	Face Kit SiC/SiC EPDM	Pos 5.6 Stationary seal	SiC		
		Pos 5.7 Rotary seal	AISI316L		
		Pos 5.8 pin			
		Complete	FPM (Viton)	L772464	L772469
A	Schaftdichtung Set SiC/SiC FPM (Viton)	Pos 5.5 2 off o-rings	SiC		
		Pos 5.6 Stationary seal	SiC		
		Pos 5.7 Rotary seal	AISI316L		
		Pos 5.8 pin			

B. All combinations of material are available. – SPX FT recommend to use SiC/Car as secondary seal.

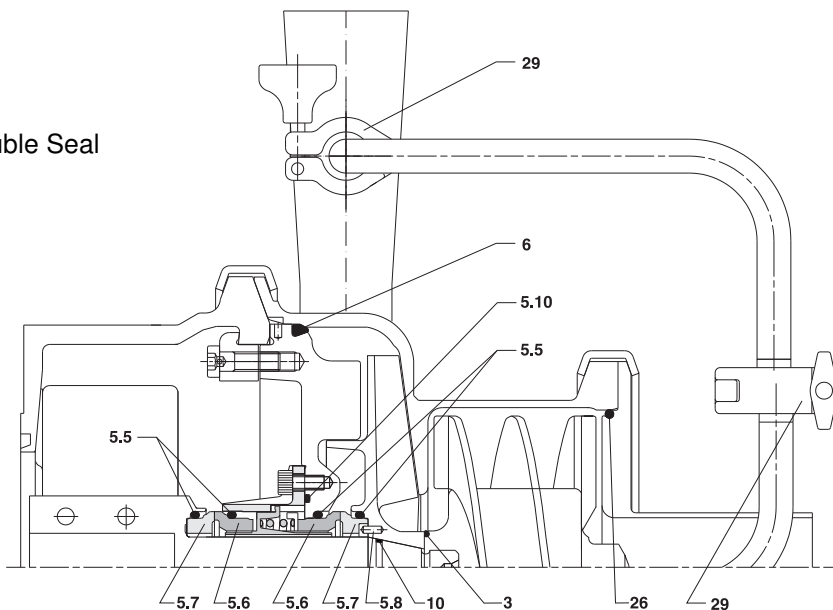
7.5 Seal Kit Comp.

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Single Seal



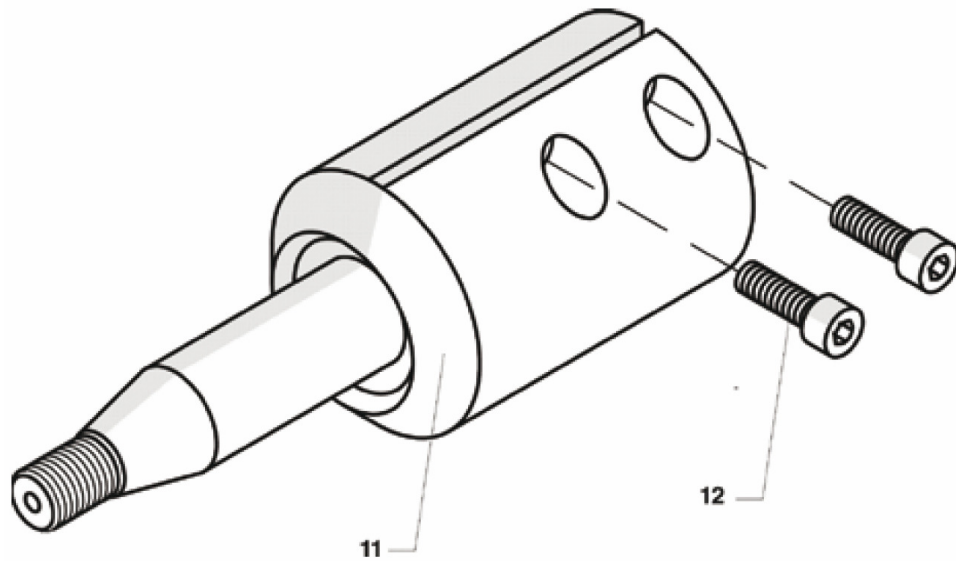
Double Seal



Pos.	Material	Pump Type		
		W+10/8	W+22/20	W+30/80
		Part No.		
Seal Kit , Single 3, 6, 10, 26, 29x2, 5.4, 5.5x2, 5.6, 5.7, 5.8	SiC/SiC - EPDM	L808325	L808326	L808327
	SiC/Car - EPDM	L808328	L808329	L808330
	SiC/SiC - FPM	L808331	L808332	L808333
	SiC/Car - FPM	L808334	L808335	L808336
Seal Kit , Double 3, 6, 10, 26, 29x2, 5.5x2, 5.6x2, 5.7x2, 5.8, 5.10	SiC/SiC - EPDM	L808551	L808555	L808559
	SiC/Car - EPDM	L808552	L808556	L808534
	SiC/SiC - FPM	L808553	L808557	L808535
	SiC/Car - FPM	L808554	L808558	L808536
O-Ring Kit 3, 6, 10, 26, 29x2	EPDM	L808619	L808620	L808621
	FPM (Viton)	L808622	L808623	L808624

7.6 Shaft

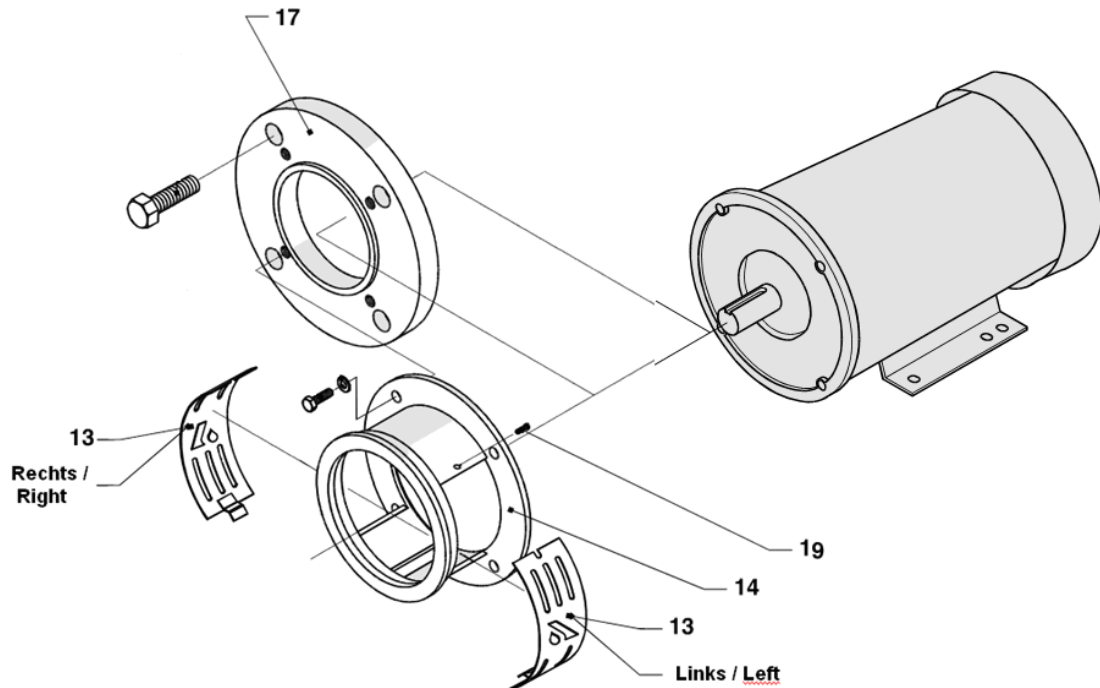
Ws+



Pump Type	Motor						
	143-145TC	182-184TC	213-215TC	254-256TC	254-256TC	284-286TSC	324-326TSC
	Pos. 11 Shaft Ø25				Pos. 11 Shaft Ø35		
Ws+20/15	L267333	L267334	L267335	-----	-----	-----	-----
Ws+30/30	L267333	L267334	L267335	L267336	-----	-----	-----
Ws+40/15	-----	-----	-----	-----	L267341	L267342	L267343
	Pos. 12						
Qty.	2	2	2	2	2	2	2
Screw	L771199	L771199	L771199	L771199	L771199	L771199	L701700

7.7 Motor Adaptor and Shaft Guard

Ws+

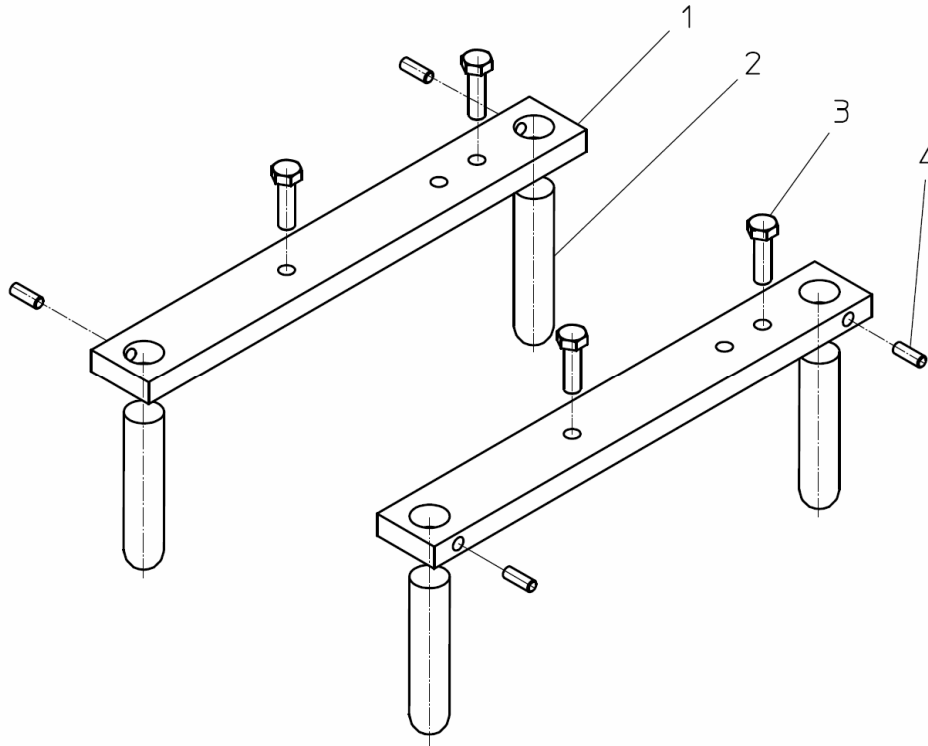


Pump Type	Qty	Motor					
		143-145TC	182-184TC	213-215TC	254-256TC	284-286TSC	324-326TSC
		Pos. 13 Shaft Guard					
Ws+20/15	2 R / L	L188334	L188334	L188334	-----	-----	-----
Ws+30/30	2 R / L	-----	L188653	L188653	L188653	-----	-----
Ws+44/50	2 R / L	-----	-----	-----	L188653	L188811	L188811
		Pos. 14 Motor Adaptor					
Ws+20/15	1	L260973#*	L260973#*	L260973#*	-----	-----	-----
Ws+30/30	1	-----	L260975	L260975	L260975**	-----	-----
Ws+44/50	1	-----	-----	-----	L260977**	L260978	L260978***
		Pos. 17 Flange Adapter St 37 / (AISI 304SS)					
*	1	-----	*L267095	*L267095	-----	-----	-----
**	1	-----	-----	-----	**L267096	-----	-----
***	1	-----	-----	-----	-----	-----	***L267097
		Pos. 19 Screws					
All types	2	L700420					

integrated in back plate pos. 7b

7.8 Frame

Ws+



			Motor					
			143-145TC	182-184TC	213-215TC	254-256TC	284-286TSC	324-326TSC
Pos	Qty	Description	Part No.					
--	--	Frame cpl.	L110256	L110255	L110254	L110253	L110252	L110251
1	2	Side bar	L110262	L110261	L110260	L110259	L110258	L110257
2	4	Leg ¾"	L110264			-----		
2	4	Leg 1"	-----			L110263		
3	4	Screw	5/16-18 x ¾	¾-16 x 1		1/2-13 x 1 1/8		5/5-11 x 1 1/4
4	2	Screw	1/4-20 x 1/2 SQ.HD			1/4-20 x 5/8 SQ.HD		



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