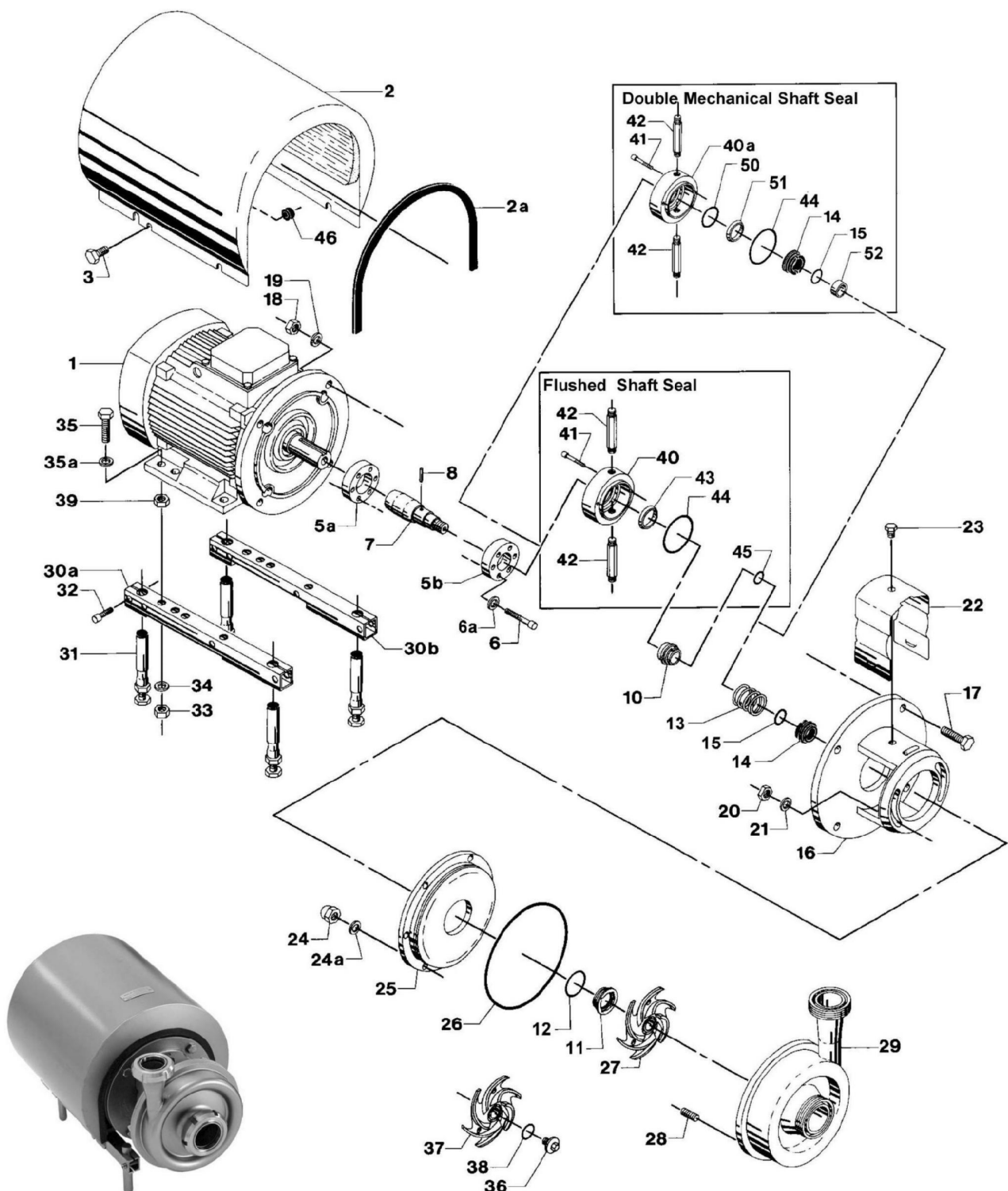


Centrifugal Pump, Type LKH-15
Single, flushed and double mechanical shaft seal



Centrifugal Pump, Type LKH-15

Single, flushed and double mechanical shaft seal

Pos.	Qty.	Denomination	3 kW	4 kW	5.5 kW
3	4	Screw	9611-99-3240	9611-99-3240	9611-99-3240
5a	1	Compression ring with thread	9612-1336-02	9612-1336-02	9612-1336-05
5b	1	Compression ring without thread	9612-1337-02	9612-1337-02	9612-1337-05
6	6	Screw	9611-99-3196	9611-99-3196	9611-99-3197
6a	6	Washer	9611-99-3199	9611-99-3199	9611-99-3199
7	1	Shaft with internal/external thread and pin (pos. 8)	9612-1325-02	9612-1325-02	9612-1326-02
8	1	Connex pin	9611-99-0622	9611-99-0622	9611-99-0622
10	1	Drive ring, Single shaft seal	9612-1377-01	9612-1377-01	9612-1377-01
	1	Drive ring, Flushed shaft seal	9612-1367-01	9612-1367-01	9612-1367-01
16	1	Adaptor	9612-3424-01	9612-3424-01	9612-3425-01
17	4	Screw for adaptor	9611-99-1834	9611-99-1834	9611-99-1834
18	4	Nut for adaptor	9611-99-0587	9611-99-0587	9611-99-0587
19	4	Washer for adaptor	9611-99-0676	9611-99-0676	9611-99-0676
20	2	Nut	9611-99-0353	9611-99-0353	9611-99-0353
21	2	Washer	9611-99-2559	9611-99-2559	9611-99-2559
22	1	Safety guard	9612-1311-06	9612-1311-06	9612-1311-07
23	1	Screw for safety guard	9611-99-3239	9611-99-3239	9611-99-3239
24	6	Cap nut	9611-99-2592	9611-99-2592	9611-99-2592
24a	6	Washer	9611-99-1888	9611-99-1888	9611-99-1888
25	1	Back plate	9612-1384-04	9612-1384-04	9612-1384-04
26	1	O-ring, EPDM (standard)	9611-99-2137	9611-99-2137	9611-99-2137
	1	O-ring, NBR	9611-99-2139	9611-99-2139	9611-99-2139
	1	O-ring, FPM	9611-99-2138	9611-99-2138	9611-99-2138
	1	O-ring, FEP	9611-99-2140	9611-99-2140	9611-99-2140
27	1	Impeller	9612-4314-07	9612-4314-01	9612-4314-01
28	6	Bolt	9611-99-2168	9611-99-2168	9611-99-2168
29	1	Pump casing, IDF	9612-4924-01	9612-4924-01	9612-4924-01
	1	Pump casing, SMS	9612-4924-02	9612-4924-02	9612-4924-02
	1	Pump casing, DIN	9612-4924-03	9612-4924-03	9612-4924-03
	1	Pump casing, ISO	9612-4924-04	9612-4924-04	9612-4924-04
	1	Pump casing, BS	9612-4924-05	9612-4924-05	9612-4924-05
	1	Pump casing, flange DN100/DN80	9612-1380-08	9612-1380-08	9612-1380-08
Legs					
30a	1	Support bar, right	9612-1322-05	9612-1322-05	9612-1322-06
30b	1	Support bar, left	9612-1323-05	9612-1323-05	9612-1323-06
31	4	Leg	9612-3967-01	9612-3967-01	9612-3967-01
32	4	Screw (Period 9711-)	9611-99-1126	9611-99-1126	9611-99-1126
	4	Screw (Period -9711)	9611-99-1907	9611-99-1907	9611-99-1907
33	4	Nut	9611-99-0353	9611-99-0353	9611-99-0353
34	4	Spring washer	9611-99-1887	9611-99-1887	9611-99-1887
35	4	Screw	9611-99-1374	9611-99-1911	9611-99-1911
35a	4	Washer	9611-99-0786	9611-99-0786	9611-99-0786
39	4	Nut	9611-99-0587		
46	4	Distance sleeve			9611-99-2737
Alternatives					
36	1	Impeller screw	9612-1396-01	9612-1396-01	9612-1396-01
37	1	Impeller for impeller screw	9612-4314-08	9612-4314-02	9612-4314-02
38	1	O-ring EPDM	9611-99-2145	9611-99-2145	9611-99-2145
	1	O-ring NBR	9611-99-2147	9611-99-2147	9611-99-2147
	1	O-ring FPM	9611-99-2146	9611-99-2146	9611-99-2146
	1	O-ring FEP	9611-99-2148	9611-99-2148	9611-99-2148

Pos.	Qty.	Denomination	3 kW	4 kW	5.5 kW
1	1	Motor, M2AA*		9612-4028-07	9612-4028-15
	1	Motor, MT*	31801-1984-1		
	1	Motor, M2AA**		9612-4028-09	9612-4028-17
	1	Motor, MT**	31801-1984-2		
2	1	Shroud complete	9612-1390-02	9612-1390-03	9612-1390-08
2a	1	Edge list (Included in pos. 2)			
* 3 ~, 50 Hz, 220-240V/380-420VY - Standard ≤ 4 kW ** 3 ~, 50 Hz, 380-420V/660-690VY - Standard ≥ 5.5 kW					
3 ~, 60 Hz, 250-280V/440-480VY - Standard ≤ 4.5 kW 3 ~, 50 Hz, 380-420V/660-690VY - Standard ≥ 6.3 kW					
Pos.	Qty.	Denomination	3-5.5 kW	Shaft Seal: See page 58 and 59	
Accessories					
	1	Tool complete	9612-1371-01		
Parts for Flushed Shaft Seal					
40	1	Seal housing	9612-1339-01		
41	2	Screw for seal housing	9611-99-0203		
42	2	Tube	9612-3589-01		
Parts for Double Mechanical Shaft Seal					
40a	1	Seal housing	9612-1339-02		
41	2	Screw for seal housing	9611-99-0203		
42	2	Tube	9612-3589-01		
Service kit for single shaft seal					
	□	Service kit, EPDM	9611-92-2072		
	□	Service kit, NBR	9611-92-2073		
	□	Service kit, FPM	9611-92-2074		
	□	Service kit, FEP	9611-92-2075		
Service kit for single shaft seal and impeller screw					
	◆	Service kit, EPDM	9611-92-2114		
	◆	Service kit, NBR	9611-92-2115		
	◆	Service kit, FPM	9611-92-2116		
	◆	Service kit, FEP	9611-92-2117		
Service kit for flushed shaft seal					
	○	Service kit, EPDM	9611-92-2076		
	○	Service kit, NBR	9611-92-2077		
	○	Service kit, FPM	9611-92-2078		
	○	Service kit, FEP	9611-92-2079		
Service kit for flushed shaft seal and impeller screw					
	*	Service kit, EPDM	9611-92-2118		
	*	Service kit, NBR	9611-92-2119		
	*	Service kit, FPM	9611-92-2120		
	*	Service kit, FEP	9611-92-2121		
Service kit for double mechanical shaft seal					
	◇	Service kit, EPDM	9611-92-2206		
	◇	Service kit, NBR	9611-92-2207		
	◇	Service kit, FPM	9611-92-2208		
	◇	Service kit, FEP	9611-92-2209		
Service kit for double mechanical shaft seal and impeller screw					
	●	Service kit, EPDM	9611-92-2210		
	●	Service kit, NBR	9611-92-2211		
	●	Service kit, FPM	9611-92-2212		
	●	Service kit, FEP	9611-92-2213		

Parts marked with □ ♦ ♦ ♦ ♦ ♦ are included in the service kits.

Recommended Spare Parts: Service Kits.

Conversion kit, single to flushed shaft seal 9611-92-2042 = Pos. 10+40+41+42+43+44+45

Conversion kit, single to double mechanical shaft seal 9611-92-2175 = Pos. 14+15+40a+41+42+44+50+51+52. SIC/SIC = 9611-92-2302

Conversion kit, flushed to double mechanical shaft seal 9611-92-2176 = Pos. 14+40a+50+51+52

Surface roughness, product wetted parts: Ra ≤ 0.8 μm

Pos.	Qty.	Denomination	3 kW	4-5.5 kW
25	1	Back plate	9612-1384-20	9612-1384-20
27	1	Impeller	9612-4314-09	9612-4314-05
29	1	Pump casing, IDF	9612-4925-01	9612-4925-01
	1	Pump casing, SMS	9612-4925-02	9612-4925-02
	1	Pump casing, DIN	9612-4925-03	9612-4925-03
	1	Pump casing, ISO	9612-4925-04	9612-4925-04
	1	Pump casing, BS	9612-4925-05	9612-4925-05
Alternatives				
36	1	Impeller screw	9612-1396-03	9612-1396-03
37	1	Impeller for impeller screw	9612-4314-10	9612-4314-06



Centrifugal Pump, Type LKH-20

Single, flushed and double mechanical shaft seal

Pos.	Qty.	Denomination	1.5-2.2 kW	3 kW	4 kW	5.5-7.5 kW	Pos.	Qty.	Denomination	1.5 kW	2.2 kW	3 kW	4 kW	5.5 kW	7.5 kW					
3	4	Screw	9611-99-3240	9611-99-3240	9611-99-3240	9611-99-3240	1	1	Motor, M2AA**				9612-4028-07	9612-4028-15	9612-4028-30					
5a	1	Compression ring with thread	9612-1336-01	9612-1336-02	9612-1336-02	9612-1336-05	1	Motor, MT/MBT**	31801-1982-1	31801-1983-1	31801-1984-1		*31801-1985-1	*31801-1985-1	*31801-1986-1					
5b	1	Compression ring without thread	9612-1337-01	9612-1337-02	9612-1337-02	9612-1337-05	1	Motor, M2AA***	31801-1982-2	31801-1983-2	31801-1984-2	9612-4028-09	9612-4028-17	9612-4028-32						
6	6	Screw	9611-99-3196	9611-99-3196	9611-99-3196	9611-99-3197	1	Motor, MT/MBT***	31801-1982-2	31801-1983-2	31801-1984-2		*31801-1985-3	*31801-1985-3	*31801-1986-3					
6a	6	Washer	9611-99-3199	9611-99-3199	9611-99-3199	9611-99-3199	2	1	Shroud complete (Period 9310-)				9612-1390-01	9612-1390-03	9612-1390-08					
7	1	Shaft with internal/external thread and pin (pos. 8)		9612-1325-02	9612-1325-02	9612-1326-02	2a	1	Shroud complete (*Period 9009-9310)	9612-1390-01	9612-1390-01	9612-1390-02	9612-1390-03	*9612-1390-04	*9612-1390-04					
	1	Shaft with internal/external thread, pin (pos. 8) and retaining ring (pos.9)	9612-1397-01	9612-1397-01	9612-1397-01	9612-1397-01	* MBT Motor (Period 9009-9310). Not available anymore.													
8	1	Connex pin	9611-99-0622	9611-99-0622	9611-99-0622	9611-99-0622	** 3 ~, 50 Hz, 220-240V/3/380-420VY - Standard ≤ 4 kW *** 3 ~, 50 Hz, 380-420V/3/660-690VY - Standard ≥ 5.5 kW													
9	1	Retaining ring	9611-99-2307				3 ~, 60 Hz, 250-280V/440-480VY - Standard ≤ 6.3 kW													
10	1	Drive ring, Single shaft seal	9612-1377-01	9612-1377-01	9612-1377-01	9612-1377-01	Pos. Qty. Denomination 1.5-7.5 kW Shaft Seal: See page 58 and 59													
16	1	Adaptor	9612-3423-01	9612-3424-01	9612-3424-01	9612-3425-01	Accessories													
17	4	Screw for adaptor	9611-99-2161	9611-99-1834	9611-99-1834	9611-99-2162	1	1	Tool complete	9612-1371-01										
18	4	Nut for adaptor	9611-99-0353	9611-99-0587	9611-99-0587	9611-99-0587	Parts for Flushed Shaft Seal													
19	4	Washer for adaptor	9611-99-1807	9611-99-0076	9611-99-0076	9611-99-0076	40	1	Seal housing	9612-1336-01										
20	2	Nut	9611-99-0353	9611-99-0353	9611-99-0353	9611-99-0353	41	2	Screw for seal housing	9611-99-0203										
21	2	Washer	9611-99-2559	9611-99-2559	9611-99-2559	9611-99-2559	42	2	Tube	9612-3585-01										
22	1	Safety guard	9612-1311-05	9612-1311-06	9612-1311-06	9612-1311-07	Parts for Double Mechanical Shaft Seal													
23	1	Screw for safety guard	9611-99-3239	9611-99-3239	9611-99-3239	9611-99-3239	40a	1	Seal housing	9612-1336-02										
24	6	Cap nut (Period 9211-)	9611-99-2592	9611-99-2592	9611-99-2592	9611-99-2592	41	2	Screw for seal housing	9611-99-0203										
24a	6	Washer (Period 9211-)	9611-99-1888	9611-99-1888	9611-99-1888	9611-99-1888	42	2	Tube	9612-3585-01										
25	1	Back plate	9612-1384-05	9612-1384-05	9612-1384-05	9612-1384-05	Service kit for single shaft seal													
26	1	O-ring, EPDM (standard)	9611-99-2141	9611-99-2141	9611-99-2141	9611-99-2141	□	1	Service kit, EPDM	9611-92-2080										
26	1	O-ring, NBR	9611-99-2143	9611-99-2143	9611-99-2143	9611-99-2143	□	1	Service kit, NBR	9611-92-2081										
27	1	O-ring, FPM	9611-99-2142	9611-99-2142	9611-99-2142	9611-99-2142	□	1	Service kit, FPM	9611-92-2082										
28	1	O-ring, FEP	9611-99-2144	9611-99-2144	9611-99-2144	9611-99-2144	□	1	Service kit, FEP	9611-92-2083										
29	1	Impeller	9612-1314-07	9612-1314-07	9612-1314-01	9612-1314-01	Service kit for single shaft seal and impeller screw													
29	1	Bolt	9611-99-2108	9611-99-2108	9611-99-2108	9611-99-2108	◆	1	Service kit, EPDM	9611-92-2122										
29	1	Pump casing, IDF	9612-1398-06	9612-1398-06	9612-1398-06	9612-1398-06	◆	1	Service kit, NBR	9611-92-2123										
29	1	Pump casing, SMS	9612-1398-07	9612-1398-07	9612-1398-07	9612-1398-07	◆	1	Service kit, FPM	9611-92-2124										
29	1	Pump casing, DIN	9612-1398-08	9612-1398-08	9612-1398-08	9612-1398-08	◆	1	Service kit, FEP	9611-92-2125										
29	1	Pump casing, ISO	9612-1398-09	9612-1398-09	9612-1398-09	9612-1398-09	Service kit for flushed shaft seal													
29	1	Pump casing, BS	9612-1398-10	9612-1398-10	9612-1398-10	9612-1398-10	○	1	Service kit, EPDM	9611-92-2084										
29	1	Pump casing, flange DN65/DN50	9612-1380-02	9612-1380-02	9612-1380-02	9612-1380-02	○	1	Service kit, NBR	9611-92-2085										
Legs							○	1	Service kit, FPM	9611-92-2086										
30a	1	Support bar, right (Period 9310-)				9612-1322-06	Service kit for flushed shaft seal and impeller screw													
30b	1	Support bar, right (*Period 9009-9310)	9612-1322-01	9612-1322-05	9612-1322-05	*9612-1322-02	◆	1	Service kit, EPDM	9611-92-2126										
31	1	Support bar, left (Period 9310-)				9612-1323-06	◆	1	Service kit, NBR	9611-92-2127										
31	1	Support bar, left (*Period 9009-9310)	9612-1323-01	9612-1323-05	9612-1323-05	*9612-1323-02	◆	1	Service kit, FPM	9611-92-2128										
32	4	Leg	9612-3967-01	9612-3967-01	9612-3967-01	9612-3967-01	◆	1	Service kit, FEP	9611-92-2129										
32	4	Screw (Period 9711-)	9611-99-1126	9611-99-1126	9611-99-1126	9611-99-1126	Service kit for double mechanical shaft seal													
33	4	Screw (Period 9711-)	9611-99-1907	9611-99-1907	9611-99-1907	9611-99-1907	◆	1	Service kit, EPDM	9611-92-2214										
33	4	Nut	9611-99-0360	9611-99-0363	9611-99-0363	9611-99-0363	◆	1	Service kit, NBR	9611-92-2215										
34	4	Spring washer	9611-99-1888	9611-99-1887	9611-99-1887	9611-99-1887	◆	1	Service kit, FPM	9611-92-2216										
35	4	Screw	9611-99-1176	9611-99-1374	9611-99-1911	9611-99-1911	◆	1	Service kit, FEP	9611-92-2217										
35a	4	Washer	9611-99-0786	9611-99-0786	9611-99-0786	9611-99-0786	Service kit for double mechanical shaft seal and impeller screw													
39	4	Nut	9611-99-0587				◆	1	Service kit, EPDM	9611-92-2218										
46	4	Distance sleeve (Period 9310-)				9611-99-2737	◆	1	Service kit, NBR	9611-92-2219										
Alternatives							◆	1	Service kit, FPM	9611-92-2220										
36	1	Impeller screw	9612-1396-01	9612-1396-01	9612-1396-01	9612-1396-01	◆	1	Service kit, FEP	9611-92-2221										
37	1	Impeller for impeller screw	9612-1314-08	9612-1314-08	9612-1314-02	9612-1314-02	Parts marked with □/◆/○/◆/○/◆ are included in the service kits.													
38	1	O-ring EPDM	9611-99-2145	9611-99-2145	9611-99-2145	9611-99-2145	Recommended Spare Parts: Service kits.													
38	1	O-ring NBR	9611-99-2147	9611-99-2147	9611-99-2147	9611-99-2147	Conversion kit, single to flushed shaft seal 9611-92-2042 = Pos. 10+40+41+42+43+44+45													
38	1	O-ring FPM	9611-99-2146	9611-99-2146	9611-99-2146	9611-99-2146	Conversion kit, single to double mechanical shaft seal 9611-92-2175 = Pos. 14+15+40a+41+42+44+50+51+52.													
38	1	O-ring FEP	9611-99-2148	9611-99-2148	9611-99-2148	9611-99-2148	SIC/SIC = 9611-92-2302													
38	1	O-ring FEP	9611-99-2148	9611-99-2148	9611-99-2148	9611-99-2148	Conversion kit, flushed to double mechanical shaft seal 9611-92-2176 = Pos. 14+40a+50+51+52													

Surface roughness, product wetted parts: Ra ≤ 0.8 μm

Pos.	Qty.	Denomination	1.5-3 kW	4-7.5 kW
25	1	Back plate	9612-1384-21	9612-1384-21
27	1	Impeller	9612-1314-09	9612-1314-05
29	1	Pump casing, IDF	9612-4572-06	9612-4572-06
1	1	Pump casing, SMS	9612-4572-07	9612-4572-07
1	1	Pump casing, DIN	9612-4572-08	9612-4572-08
1	1	Pump casing, ISO	9612-4572-09	9612-4572-09
1	1	Pump casing, BS	9612-4572-10	9612-4572-10
Alternatives				
36	1	Impeller screw	9612-1396-03	9612-1396-03
37	1	Impeller for impeller screw	9612-1314-10	9612-1314-06