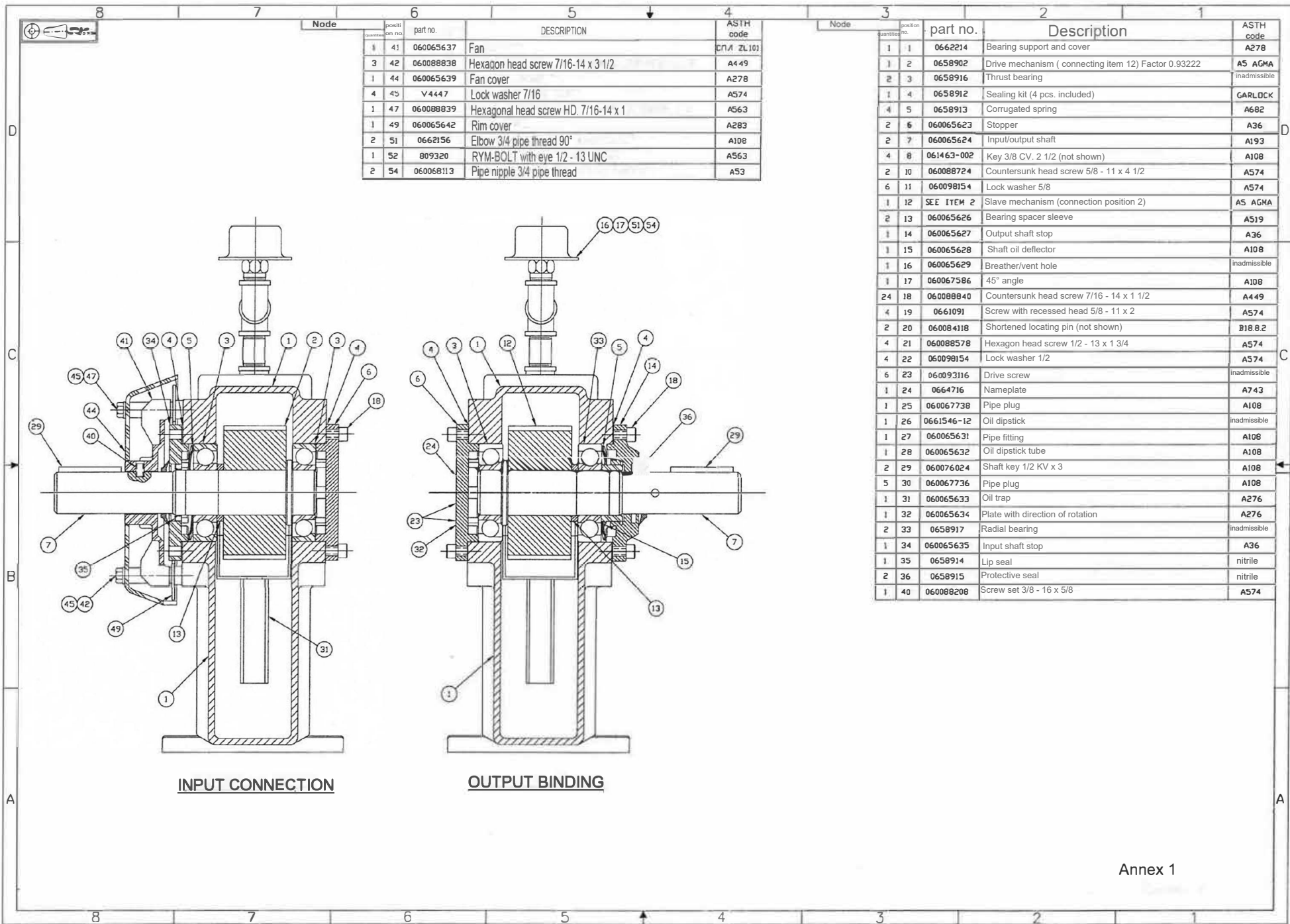


**Spare parts for high pressure pump gearbox**

**Manufacturer: Weir Specialty Pumps Milwaukee Gear, Type 0657601P**

<b>No.</b>	<b>Description</b>	<b>Part No.</b>	<b>Document No.</b>	<b>Q-ty</b>
1.	Shaft diameter 2" AISI 4140 steel	60065624	Appendix 1, pos. 7	2 pcs.
2.	Drive pinion	658902	Appendix 1, pos. 2	1 pcs.
3.	Driven pinion	-	Appendix 1, pos. 12	1 pcs.
4.	Corrugated spring	658913	Appendix 1, pos. 5	4 pcs.
5.	Lip seal	658914	Appendix 1, item. 35	1 pcs.
6.	Protective seal	658915	Appendix 1, pos. 36	2 pcs.
7.	Shaft oil deflector	60065628	Appendix 1, pos. 15	1 pcs.
8.	Thrust bearing	658916	Appendix 1, pos. 3	3 pcs.
9.	Radial bearing	658917	Appendix 1, pos. 33	1 pcs.
10.	Seal set	658712	Appendix 1, pos. 4	1 set
11.	Bearing spacer sleeve	60065626	Annex 1, pos. 13	2 pcs.

<See the drawing below>



Node	position no.	part no.	DESCRIPTION	ASTH code
1	41	060065637	Fan	CP/A ZL101
3	42	060088838	Hexagon head screw 7/16-14 x 3 1/2	A449
1	44	060065639	Fan cover	A278
4	45	V4447	Lock washer 7/16	A574
1	47	060088839	Hexagonal head screw HD. 7/16-14 x 1	A563
1	49	060065642	Rim cover	A283
2	51	0662156	Elbow 3/4 pipe thread 90°	A108
1	52	809320	RYM-BOLT with eye 1/2 - 13 UNC	A563
2	54	060068113	Pipe nipple 3/4 pipe thread	A53

Node	position no.	part no.	Description	ASTH code
1	1	0662214	Bearing support and cover	A278
1	2	0658902	Drive mechanism ( connecting item 12) Factor 0.93222	A5 AGMA
2	3	0658916	Thrust bearing	inadmissible
1	4	0658912	Sealing kit (4 pcs. included)	GARLOCK
4	5	0658913	Corrugated spring	A682
2	6	060065623	Stopper	A36
2	7	060065624	Input/output shaft	A193
4	8	061463-002	Key 3/8 CV. 2 1/2 (not shown)	A108
2	10	060088724	Countersunk head screw 5/8 - 11 x 4 1/2	A574
6	11	060098154	Lock washer 5/8	A574
1	12	SEE ITEM 2	Slave mechanism (connection position 2)	A5 AGMA
2	13	060065626	Bearing spacer sleeve	A519
1	14	060065627	Output shaft stop	A36
1	15	060065628	Shaft oil deflector	A108
1	16	060065629	Breather/vent hole	inadmissible
1	17	060067586	45° angle	A108
24	18	060088840	Countersunk head screw 7/16 - 14 x 1 1/2	A449
4	19	0661091	Screw with recessed head 5/8 - 11 x 2	A574
2	20	060084118	Shortened locating pin (not shown)	B18.8.2
4	21	060088578	Hexagon head screw 1/2 - 13 x 1 3/4	A574
4	22	060098154	Lock washer 1/2	A574
6	23	060093116	Drive screw	inadmissible
1	24	0664716	Nameplate	A743
1	25	060067738	Pipe plug	A108
1	26	0661546-12	Oil dipstick	inadmissible
1	27	060065631	Pipe fitting	A108
1	28	060065632	Oil dipstick tube	A108
2	29	060076024	Shaft key 1/2 KV x 3	A108
5	30	060067736	Pipe plug	A108
1	31	060065633	Oil trap	A276
1	32	060065634	Plate with direction of rotation	A276
2	33	0658917	Radial bearing	inadmissible
1	34	060065635	Input shaft stop	A36
1	35	0658914	Lip seal	nitrile
2	36	0658915	Protective seal	nitrile
1	40	060088208	Screw set 3/8 - 16 x 5/8	A574

**INPUT CONNECTION**

**OUTPUT BINDING**

## OL for gearbox for Roto-Jet pumps

According to Weir Specialty Pumps (REDUCTOR IS NOT API 677 compliant)

1	<b>CONSTRUCTION CHARACTERISTICS</b>		
2	TYPE OF APPLICATION		
3	<input checked="" type="checkbox"/> Gearbox	<input type="checkbox"/> Accelerator	
4	<input checked="" type="checkbox"/> Single-stage	<input type="checkbox"/> Two-stage	
5	<input type="checkbox"/> With 1 screw	<input type="checkbox"/> With 2 screws	
6		<input type="checkbox"/> Other _____	
7	<b>PRONGS</b>		
8	Gear ratio 0.927	Centre distance 6 inches	
9	Number of teeth:	Drive pinion <u>55</u> Pinion <u>59</u>	
10	Grid width Gear	<u>3 inches.</u>	
11	material	<u>8620 steel</u> Hardness <u>58 Rockwell</u>	
12	Diametral pitch	<u>10</u>	
13	<b>bearings Thrust bearing bearings</b>		
14	Type <u>Anti-friction angular contact type</u>		
15	<b>RADIAL BEARINGS</b>		
16	Type <u>Deep groove roller bearings with maximum load capacity</u>		
17			
18	<b>FAN</b>	Heat dissipation <u>Centrifugal cast aluminium fan</u>	
19	Fastening	<u>The drive shaft is hot-fit and driven by a set screw.</u>	
20		<u>screw</u>	
21	Defence	<u>Protective cover</u>	
22	<b>SHAFTS</b>	Material <u>AISI 4140 steel</u>	
23	Shaft end extrusion diameter	<u>2 in (50.8 mm) for both ends</u>	
24	Shaft diameter tolerance	<u>+/- 0.0010 in (0.0254 mm)</u>	
25	Orientation slot	<u>Size 1/2 inch (12.7 mm) square groove length 3 inches (76.2 mm)</u>	
26			
27	<b>CORPUS</b>	Material <u>ASTM A278 Cast iron (1)</u>	
28			
29	<b>VENTILATION</b>	Ventilation breather included in <u>delivery yes</u>	
30			
31	<b>OIL LEVEL</b> Measuring device	<u>Oil dipstick</u>	
32			
33	<b>LUBRICANT</b>	Oil	<u>Mobil SHC 630</u>
34	Temperature range	<u>-50 -300 F°:</u>	<u>-45 -148 C°</u>
35	Gearbox volume	<u>2 1L2 halons</u>	<u>9.46 litres</u>
36			
37	<b>ADDITIONAL INFORMATION</b>		
38	Gearbox manufacturer		
39	Gearbox manufacturer		
40	No. pos.	<u>81-GB-124A/B/C</u>	
41	Max. constant speed (output)	<u>4380 rpm</u>	
42	Power of driven equipment	<u>7.76 kW</u>	
43	Drive power (nom/max)	<u>37/37 kW</u>	
44	Max. gearbox input power	<u>164 kW</u>	
45	<b>COMMENTS (1)</b> - The minimum design design temperature requirement applies to pressure vessels only. The gearbox		
46	housing is not a pressure vessel, so operation at ambient temperature is acceptable.		
47			