



World Series

WT – Multi-Pressure Pump

- SPARES MANUAL -



GP/147/99 Issue 27. June 2013

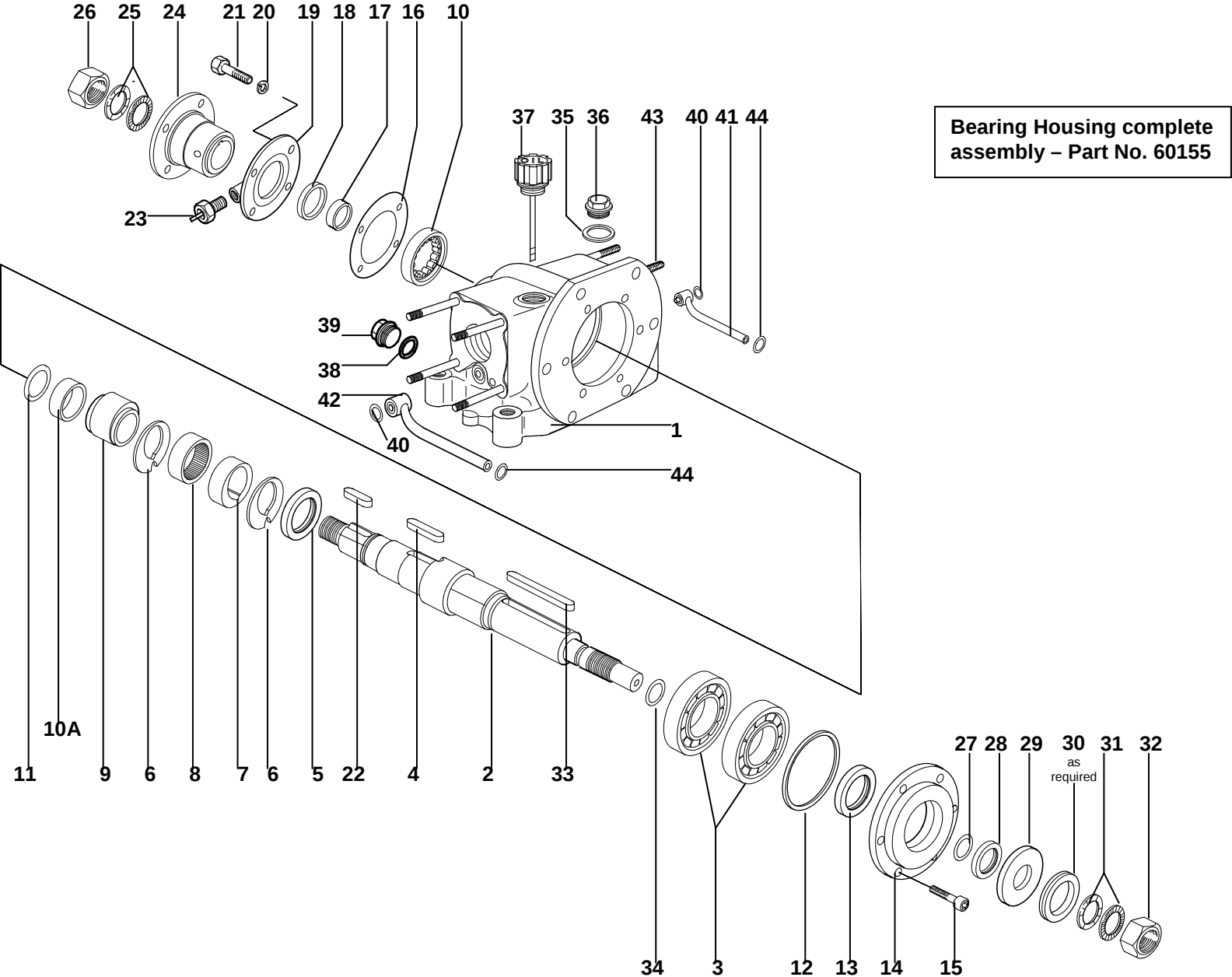
For revisions and new sections see
Amendment Record on page 2-3

AMENDMENT RECORD for WT Multi-Pressure Pump Spares Manual					
Number	Date	Page/s	Amendment	Instruction	Publication issue
1	March 2002	44-47	Addition of section on Water Ring Primer	4 pages added to end of Parts List	Issue 2, March 2002
2	August 2002	20-25	Modified Piston Primer components introduced, Two piece piston assembly fitted up to serial number 1999 listed on pages 18-19 New One piece piston assembly fitted from serial number 2000 listed on pages 22-23	New pages inserted into Parts List to cover both versions of Piston Primer	Issue 3, August 2002
3	January 2003	2	Inclusion of Amendment Record page at front of manual		Issue 4, January 2003
4	April 2003	21	P19 Item 17. Cover and priming valve housing	55551/12 is now use 55551/14	Issue 5, April 2003
5	July 2003	15	Item 10 Bypass connector is modified	60040 is now use 60040/02 60040/100 is now use 60040/102 Also extra parts required	Issue 6, July 2003
6	July 2003	27	Item 32 Twin elbow	50847 is now use 60861 52322 is now use 60860 UFP2303/13 is now use 60862	Issue 6 July 2003
7	July 2003	8-9	Suction Pressure Relief Valve and Priming Pipe Filter added	Illustration amended and part numbers added	Issue 6 July 2003
8	November 2003	13	Items 8, 9, Manifold fasteners change Item 15, new thermal relief valve	Part numbers changed and added	Issue 7 November 2003
9	February 2004	5	Item 1 Bearing Housing, Item 14 Seal Housing	Part numbers changed from S/n 1101	Issue 8 February 2004
10	March 2004	8-9	Items 8-12 Primer pipe assembly modified to include latest primer pipe and filter parts	See illustration for itemised listing of current and previous primer pipe assemblies	Issue 9 March 2004
11	May 2004	14-15	Item 12,13 now upgraded to bonded seal and stainless steel bolt. Spring washer deleted.	Illustration amended and part numbers changed	Issue 10. May 2004
12	August 2004	38-41	Addition of section on Ball valves, Continental type valves	4 pages added to manual	Issue 11. August 2004
13	September 2004	28-31	Revised RTP shut-off assembly	2 pages added to manual	Issue 12. September 2004
14	September 2004	32-33	AFFF flushing valve option	New items 28-31 added	Issue 12. September 2004
15	October 2004	14-15	Modified By-pass Connector, see amendment no. 5	New illustration now added	Issue 13. October 2004
16	October 2004	18-19	Anti-surge valve options added	3 types of anti-surge valve detailed 2 pages added to manual	Issue 13. October 2004
17	October 2004	7,15	Inclusion of Anti-clockwise rotation pump part numbers	Relevant part numbers listed	Issue 13 October 2004
18	November 2004	20-25	Piston Primer – revision on parts available, P.17	Assembly 56960/05 now use 56960/06. Mk1 Primer repair kit now use SP018 upgrade kit	Issue 14 October 2004
19	February 2005	53-58	Addition of standard gearbox parts listing	Pages added to rear of parts list	Issue 15 February 2005
20	June 2005	Various	Addition of 6010 Part numbers	Various Pages	Issue 16 June 2005

AMENDMENT RECORD for WT Multi-Pressure Pump Spares Manual - Continued					
Number	Date	Page/s	Amendment	Instruction	Publication issue
21	September 2005	6	Item 17 – cover plate 60019 now 60019/01		Issue 17 September 2005
22	September 2005	42-43	Addition of Dual Flow Valve parts listing	Pages added to manual	Issue 17 September 2005
23	January 2005	16-17	Addition of pneumatic control for high-low crossover valve	Pages added to manual	Issue 18 January 2006
24	January 2006	6-7	Item 36 on WT6010 model – now O ring 52068/07. Item 36A added – becomes O ring 60840	Relevant part numbers listed	Issue 18 January 2006
25	January 2006	31	Item 20, 21, 22 replaced by one pipe 60523/04	Relevant part numbers listed	Issue 18 January 2006
26	February 2006	36-37	Changes to Delivery Valve 2.5” Pages 36-37	Relevant part numbers listed	Issue 19 March 2006
27	April 2006	12-13	Item 26 Screw MS65/30 now use MS06/25 Item 32 Quantity now 8 off Item 33 Screw – no longer used Item 35 Shim plate – no longer needed with item 29 stainless steel blanking plate	Relevant part numbers listed	Issue 20 April 2006
28	April 2006	14-15	Item 15 Bolt MS18/80 now use MS18/90	Relevant part numbers listed	Issue 20 April 2006
29	April 2006	44-45	Add item 62, MS35/8, nut Add item 63, MS57/8/25, set screw	Relevant part numbers listed	Issue 20 April 2006
30	April 2006	46-47	Add items 52, 53 primer lift-off feed pipe and O ring	Relevant part numbers listed	Issue 20 April 2006
31	April 2006	46-47	Add items 54, 55, 56, 57 strainer in priming pipe, water ring primer version	Relevant part numbers listed	Issue 20 April 2006
32	August 2006	47	Item 4 – Description change to “Cover, lift-off, outer” Item 7 – Change to p/n SP023 and SP024	Relevant part numbers listed	Issue 21 August 2006
33	August 2006	45	Item 56 – for Gunmetal models p/n WRP7945 is now WRP7945/1	Relevant part number changed	Issue 21 August 2006
34	August 2006	15	Item 32 – p/n MS65/30 now use MS165/30	Relevant part number changed	Issue 21 August 2006
35	October 2006	5	Item 16 – p/n 60182 now use 60182/01 from s/n 1101 Item 19 – p/n 60009 now use 60009/02 from s/n 1101 Item 43 – p/n 56944 now use MS49/75	Relevant part number changed	Issue 22 October 2006
36	October 2006	45	Item 18 – p/n WRP7978/1 now use 60094	Relevant part number changed	Issue 22 October 2006
37	October 2007	54-55	Addition of Instrument panel for pump spec WTA3010/379	Relevant part numbers listed	Issue 23 October 2007
38	November 2008	25	Item 24 – is now MS163/45	Relevant part numbers listed	Issue 24 November 2008
39	August 2009	58-59	Item 9 – Spacer 60354 now use 60354/001 Additional O ring UMP9816 two off required	Relevant part numbers listed	Issue 25 August 2009
40	Feb 2011	12-13	Item 35 – add 60300 shim plate	Relevant part numbers listed	Issue 26 Feb 2011
41	June 2013	9	Item 5 – 52125/01 for 4”RT, 52125/02 for 5½”RT	Relevant part numbers listed	Issue 27 June 2013

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Bearing Housing Group



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Bearing Housing Group

Item Number	Description	No./ Unit	Light Alloy All models	Gunmetal All models
1	Bearing Housing	1	60000	60000
2	Pump Shaft	1	60001	60001
3	Bearing Angular Contact	2	60002	60002
4	Key Rect. Par'l	1	MS80/16	MS80/16
5	Spacer Washer	1	60010	60010
6	Bearing Location Plate	2	60003/01	60003/01
7	Eccentric	1	60004	60004
8	Bearing – Needle	1	60005	60005
9	Balance Weight	1	60006	60006
10 & 10A	Bearing – Roller	1	60007	60007
11	'O' Ring	1	53384/01	53384/01
12	'O' Ring	1	55831	55831
13	Oil Seal	1	60012	60012
14	Seal Housing	1	60011	60011
15	Screw	6	MS164/20	MS164/20
16	Gasket Seal Housing	1	60182	60182
17	Wear Ring – Oil Seal	1	60008	60008
18	Oil Seal – Drive Flange	1	50682/02	50682/02
19	Seal Housing	1	60009	60009
20	Washer, Spring	4	MS29/7	MS29/7
21	Screw,	4	MS06/25	MS06/25
22	Key Rect.	1	MS80/15	MS80/15
23	Tacho Sender Unit	1	60015	60015
24	Drive Flange	1	See Options	See Options
25	Lock Washer Pair	1	60072/06	60072/06
26	Nut	1	MS35/16	MS35/16
27	'O' Ring	1	51355	51355
28	Seal Wear Ring	1	60141	60141
29	Flinger	1	60014	60014
30	Shim	As required	See Options	See Options
31	Lock Washer Pair	1	60072/06	60072/06
32	Nut	1	60210	60210
33	Key, Rect.	1	MS180/31	MS180/31
34	'O' Ring	1	57044	57044
35	Washer, Sealing	1	UFP2303/10	UFP2303/10
36	Plug Shoulder	1	S64/6	S64/6
37	Oil Filler/Level Unit	1	60016	60016
38	Washer, Sealing	1	UFP2303/7	UFP2303/7
39	Plug Shoulder	1	S64/3	S64/3
40	'O' Ring	2	53384	53384
41	Feed Tube R.H.	1	60053	60053
42	Feed Tube L.H.	1	60053/01	60053/01
43	Stud	8	MS49/75	MS49/75
44	'O' Ring	2	FWP8217	FWP8217

From S/n 1101 use 60000/02

From S/n 1101 use 60011/01

From S/n 1101 use 60182/01

From S/n 1101 use 60009/02

Drive Flange Options

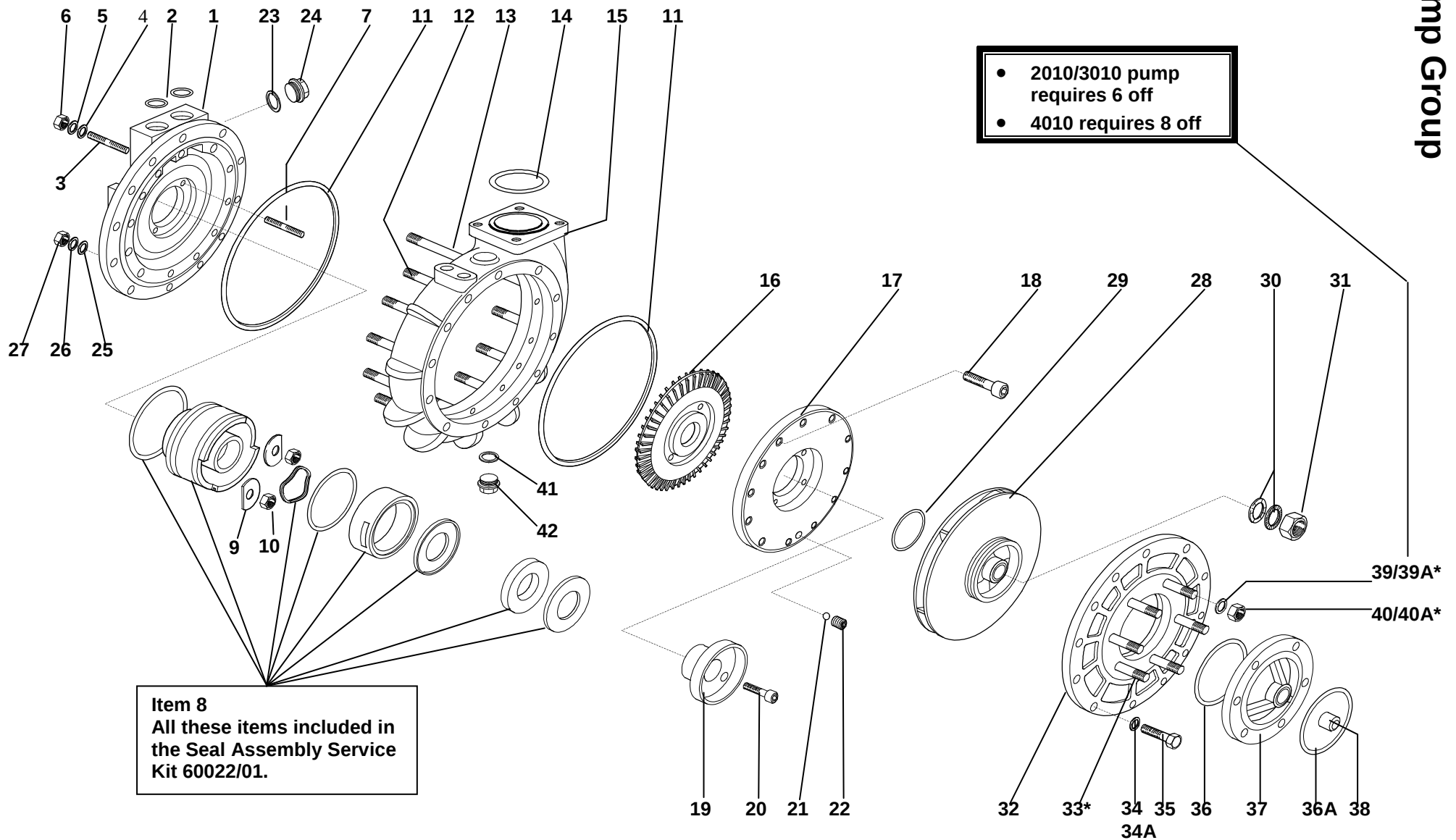
a	Drive Flange SAE 1410	1	60073
b	Drive Flange SAE 1510	1	60073/01
c	Drive Flange DIN 100	1	60073/02
d	Drive Flange DIN 120/8	1	60073/03

Shim Options

Item	Description	No./Unit	Part Number
e	Shim 56 O/D x .002"	As required	60095/01
f	Shim 56 O/D x .005"	As required	60095/02
g	Shim 56 O/D x .010"	As required	60095/03
h	Shim 56 O/D x .015"	As required	60095/04

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Pump Group



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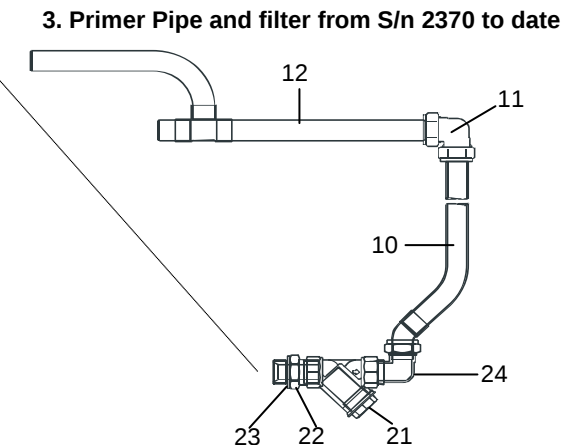
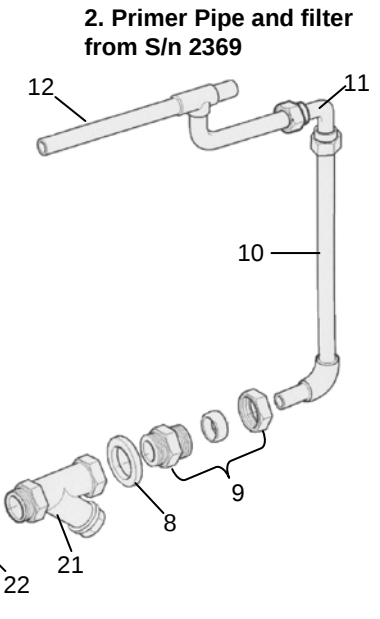
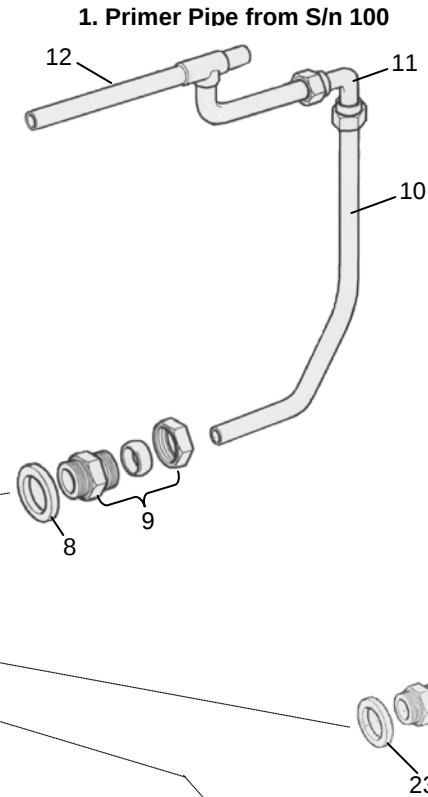
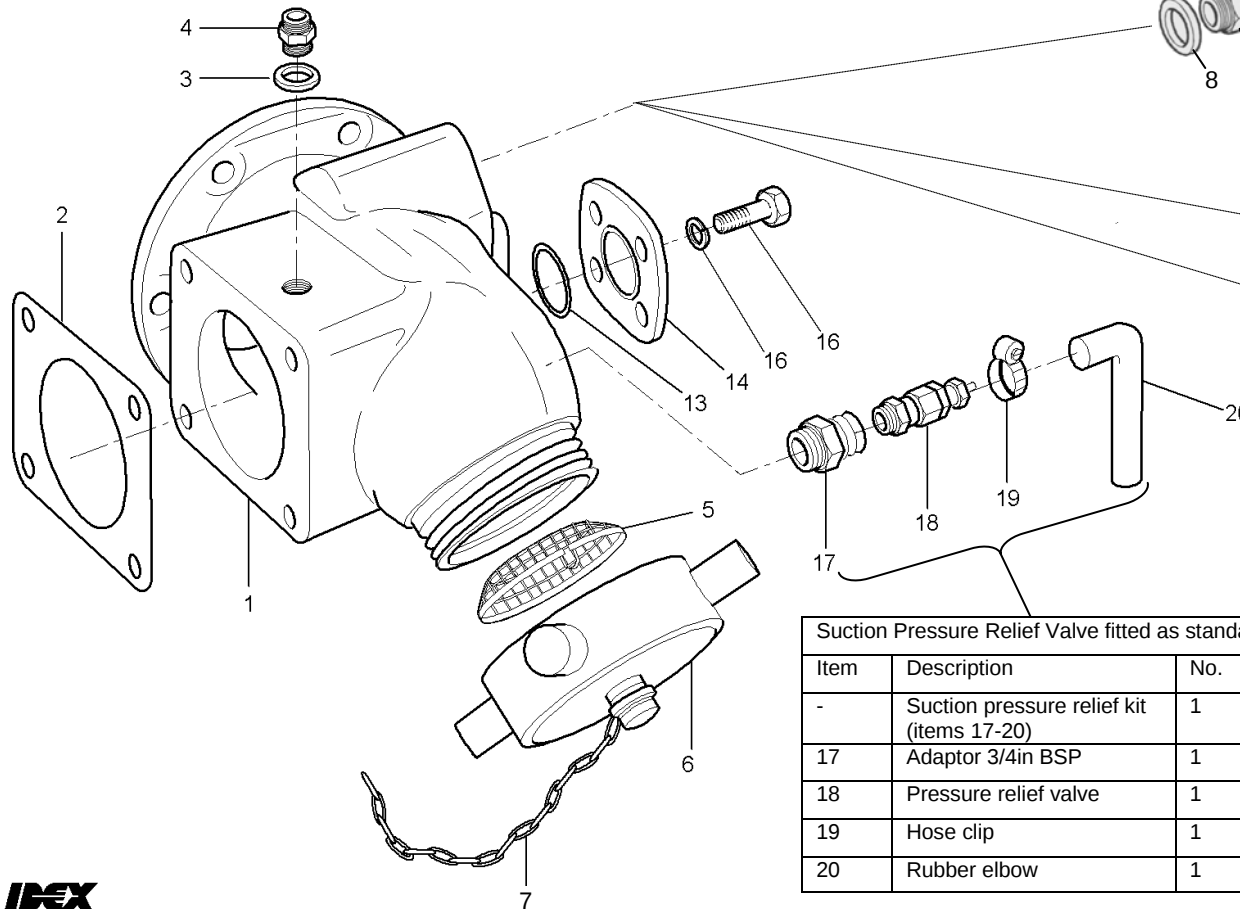
Pump Group

Item Number	Description	No./ Unit	Light Alloy 2010/3010	Gunmetal 2010/3010	Light Alloy 4010	Gunmetal 4010	Light Alloy 6010	Gunmetal 6010
1	Pump Body, clockwise rotation pump	1	60017	60017/100	4010, 6010 part nos. as per 2010/3010 unless stated -			
-	Pump Body, anti-clockwise rotation pump	1	60017/01	60017/101				
2	'O' Ring	2	UMP9700	UMP9700				
3	Stud	6	MS49/30	MS49/30				
4	Washer	6	MS25/10	MS25/10				
5	Washer, Spring	6	MS29/7	MS29/7				
6	Nut	6	MS35/9	MS35/9				
7	Stud	2	MS147/12	MS147/12				
8	Mechanical Seal Assembly Service Kit	1	60022/01	60022/01				
9	Washer, Seal Retaining	2	60211	60211				
10	Nut	2	MS141/4	MS141/4				
11	'O' Ring	2	60298	60298				
12	Stud – NOW USE BOLT	11	MS19/45	MS19/45				
13	Stud	1	MS50/75	MS50/75				
14	'O' Ring	1	THM11034	THM11034	55831	55831	55831	55831
15	Volute	1	60024	60024/100	60193	60193/100	60193	60193/100
16	Impeller- High Pressure	1	60018	60018				
17	Cover Plate – High Pressure	1	60019/01	60019/01				
18	Screw	12	MS165/35	MS165/35				
19	Wear Ring – L.P. Rear	1	60020	60020	60020/01	60020/01	60899	60899
20	Screw	4	MS164/16	MS164/16	Item 28 Impeller – Anti-clockwise rotation 2010/3010 Alum – 60304 2010/3010 Gunmetal – 60304/01 4010 Alum – 60319 4010 Gunmetal – 60319/100 6010 Alum – 60843 6010 Gunmetal – 60843/100			
21	Ball	1	56282	56282				
22	Seat – Drain Valve	1	60185	60185				
23	Washer, Sealing	1	UFP2303/8	UFP2303/8				
24	Plug Shoulder	1	S64/4	S64/4				
25	Washer – for item 12 and 13	12	MS25/11	MS25/11				
26	Washer – for item 12 and 13	12	MS29/8	MS29/8				
27	Nut – for Item 13, Stud MS50/75	1	MS35/10	MS35/10				
28	Impeller - low pressure. Clockwise rotation	1	60028	60028/100	60196	60196/100	60841	60841/100
29	'O' Ring	1	57204	57204				
30	Lock Washer Pair	1	60072/06	60072/06				
31	Nut	1	60210	60210				
32	Cover Plate – Suction	1	60026	60026/100	60194	60194/100	60838	60838/100
33	Stud (2010/3010 – 6 off, 4010 – 8 off)	6 or 8	MS49/40	MS49/40				
34	Washer	12	MS25/11	MS25/11				
34A	Spring Washer	12	MS29/8	MS29/8				
35	Bolt	12	MS19/40	MS19/40				
36	'O' Ring	1	52068/01	52068/01	51177	51177	52068/07	52068/07
36A	'O' Ring	1	52068/01	52068/01	51177	51177	60840	60840
37	Spider Bearing Support	1	60031/100	60031/100	60195/100	60195/100	60900/100	60900/100
38	Bush Pump Shaft Bearing	1	UMP6549	UMP6549				
39	Washer	6	MS25/10	MS25/10				
39A	Spring Washer	6	MS29/7	MS29/7				
40	Nut	6	MS35/9	MS35/9				
41	Washer, Sealing	1	UFP2303/7	UFP2303/7				
42	Plug Shoulder	1	S64/3	S64/3				

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Suction Tube Group

Primer pipe and filter assemblies				1. To S/n 100	2. To S/n 2369	3. From S/n 2370 to date
Note: Primer pipe and filter assembly No.3 (kit 60526/01) will replace previous assemblies No.1 and 2.					Kit P/n 60526, includes 8,9,10,11, 21,22,23	Kit P/n 60526/01, includes 10,11, 21,22,23,24
Item	Description	No.	Part number		Part number	Part number
8	Washer, sealing	1	UFP2303/10	UFP2303/10		
9	Stud, coupling	1	55308	55308		
10	Priming pipe, suction conn.	1	60172	60523/03	60773/01	
11	90° Elbow	1	55309	55309	55309	
12	Priming pipe - transverse	1	60170	60170	60170	
21	Strainer	1	No filter fitted	60524	60524	
22	Connector	1		59182/04	59182/04	
23	Sealing washer	1		UMP2303/10	UMP2303/10	
24	90° Elbow	1			60769	



Suction Pressure Relief Valve fitted as standard from Mid-2003			
Item	Description	No.	Part number
-	Suction pressure relief kit (items 17-20)	1	60389
17	Adaptor 3/4in BSP	1	60233/01
18	Pressure relief valve	1	60388
19	Hose clip	1	MS82/3
20	Rubber elbow	1	54552/04

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Suction Tube Group

Item Number	Description	No./ Unit	2010 4" RT Light Alloy	2010 4" RT Gunmetal	2010 4" BSP Light Alloy	2010 4" BSP Gunmetal	3010 5 ½" RT Light Alloy	3010 5 ½" RT Gunmetal
1	Suction Tube	1	60188	60188/100	60188/01	60188/101	60174	60174/100
2	Gasket	1	12284	12284	12284	12284	12284	12284
3	Washer, Sealing	1	UFP2303/5	UFP2303/5	UFP2303/5	UFP2303/5	UFP2303/5	UFP2303/5
4	Union	1	56403	56403	56403	56403	56403	56403
5	Suction Strainer	1	52125/01	52125/01	N/A	N/A	52125/02	52125/02
6	Cap, Suction Tube	1	FWP2004	UFP7362	N/A	N/A	2112	2112/1
7	Chain, Suction Tube Cap	1	FWP1062/1	FWP1062/1	N/A	N/A	FWP1062/1	FWP1062/1
8	Washer, Sealing	1	<i>Items 8 -12 See illustration above for further details on the primer pipe and filter parts fitted to different specifications</i>					
9	Stud Coupling	1						
10	Priming Pipe, Suct. Connect.	1						
11	90° Elbow	1						
12	Priming Pipe – Transverse	1						
13 ¹	'O' Ring	1	60166	60166	60166	60166	60166	60166
14	Seal Plate	1	60168	60168	60168	60168	60168	60168
15	Screw	4	MS05/25	MS05/25	MS05/25	MS05/25	MS05/25	MS05/25
16	Washer	4	MS29/6	MS29/6	MS29/6	MS29/6	MS29/6	MS29/6

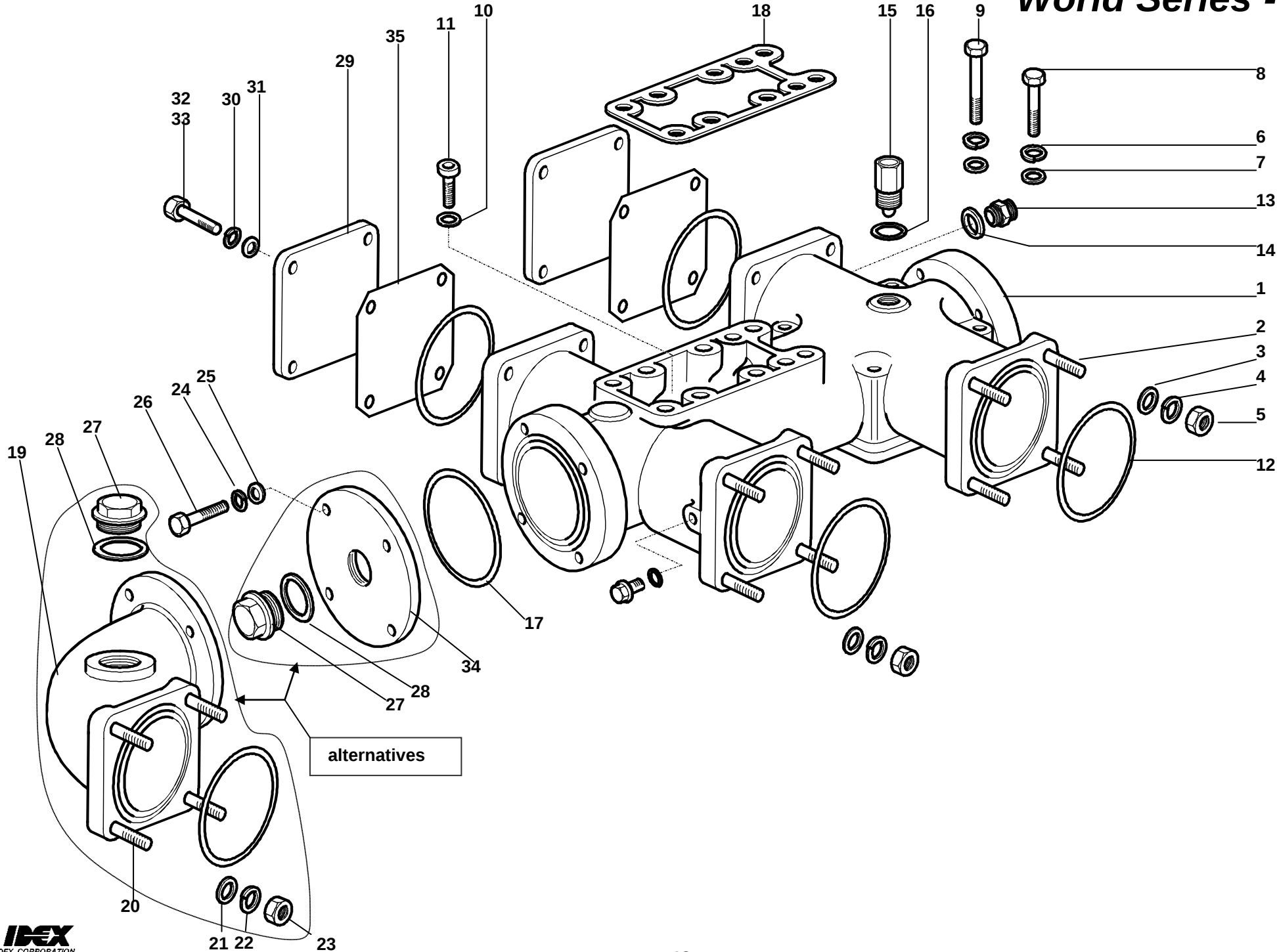
Item Number	Description	No./ Unit	3010 5½" BSP Light Alloy	3010 5½" BSP Gunmetal	4010 5½" RT Aluminium	4010 5½" RT Gunmetal	4010 5½" BSP Light Alloy	4010 5½" BSP Gunmetal
1	Suction Tube	1	60174/01	60174/101	60205	60205/100	60205/01	60205/101
2	Gasket	1	12284	12284	12284	12284	12284	12284
3	Washer, Sealing	1	UFP2303/5	UFP2303/5	UFP2303/5	UFP2303/5	UFP2303/5	UFP2303/5
4	Union	1	56403	56403	56403	56403	56403	56403
5	Suction Strainer	1	N/A	N/A	52125/02	52125/02	N/A	N/A
6	Cap, Suction Tube	1	No Cap	No Cap	2112	2112/1	No Cap	No Cap
7	Chain, Suction Tube Cap	1	FWP1062/1	FWP1062/1	N/A	N/A	FWP1062/1	FWP1062/1
8	Washer, Sealing	1	<i>Items 8 -12 See illustration above for further details on the primer pipe and filter parts fitted to different specifications</i>					
9	Stud Coupling	1						
10	Priming Pipe, Suct. Connect	1						
11	90° Elbow	1						
12	Priming Pipe - Transverse	1						
13	'O' Ring	1	60166	60166	60166	60166	60166	60166
14	Seal Plate	1	60168	60168	60168	60168	60168	60168
15	Screw	4	MS05/25	MS05/25	MS05/25	MS05/25	MS05/25	MS05/25
16	Washer	4	MS29/6	MS29/6	MS29/6	MS29/6	MS29/6	MS29/6

¹ Items 13 to 16 for use where no RTP is installed

Item Number	Description	No./ Unit	6010 8inch flange, 12 hole Light Alloy	6010 8inch flange, 12 hole Gunmetal	
1	Suction Tube	1	51348/06	51348/01	For other suction tube specifications, please quote pump model and serial number when ordering
2	-		Not used on 6010	Not used on 6010	
3	Washer, Sealing, ¼ in	1	UFP2303/5	UFP2303/5	
4	Union, ¼ in	1	56403	56403	
5	-	1	Not used on 6010	Not used on 6010	
6	-	1	Not used on 6010	Not used on 6010	
7	-	1	Not used on 6010	Not used on 6010	
8	Washer, Sealing	1	<i>Items 8 -12 and 21-24</i> <i>See illustration on previous page for further details on the primer pipe and filter parts fitted to different specifications</i>		
9	Stud Coupling	1			
10	Priming Pipe, Suct. Connect	1			
11	90° Elbow	1			
12	Priming Pipe - Transverse	1			
13	'O' Ring	1	60166	60166	
14	Seal Plate	1	60168	60168	
15	Screw	4	MS05/25	MS05/25	
16	Washer, spring	4	MS29/6	MS29/6	
-	Washer	4	MS25/9	MS25/9	
-	Joint, suction tube to volute	1	51370	51370	
-	Plug, ¼ in	1	S64/2	S64/2	
-	Washer, sealing, ¼ in	1	UFP2303/5	UFP2303/5	
-	Plug, ½ in	1	S64/4	S64/4	
-	Washer, sealing, ½ in	1	UFP2303/8	UFP2303/8	

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Manifold Group



World Series – WT Multi-Pressure Pump

Manifold Group

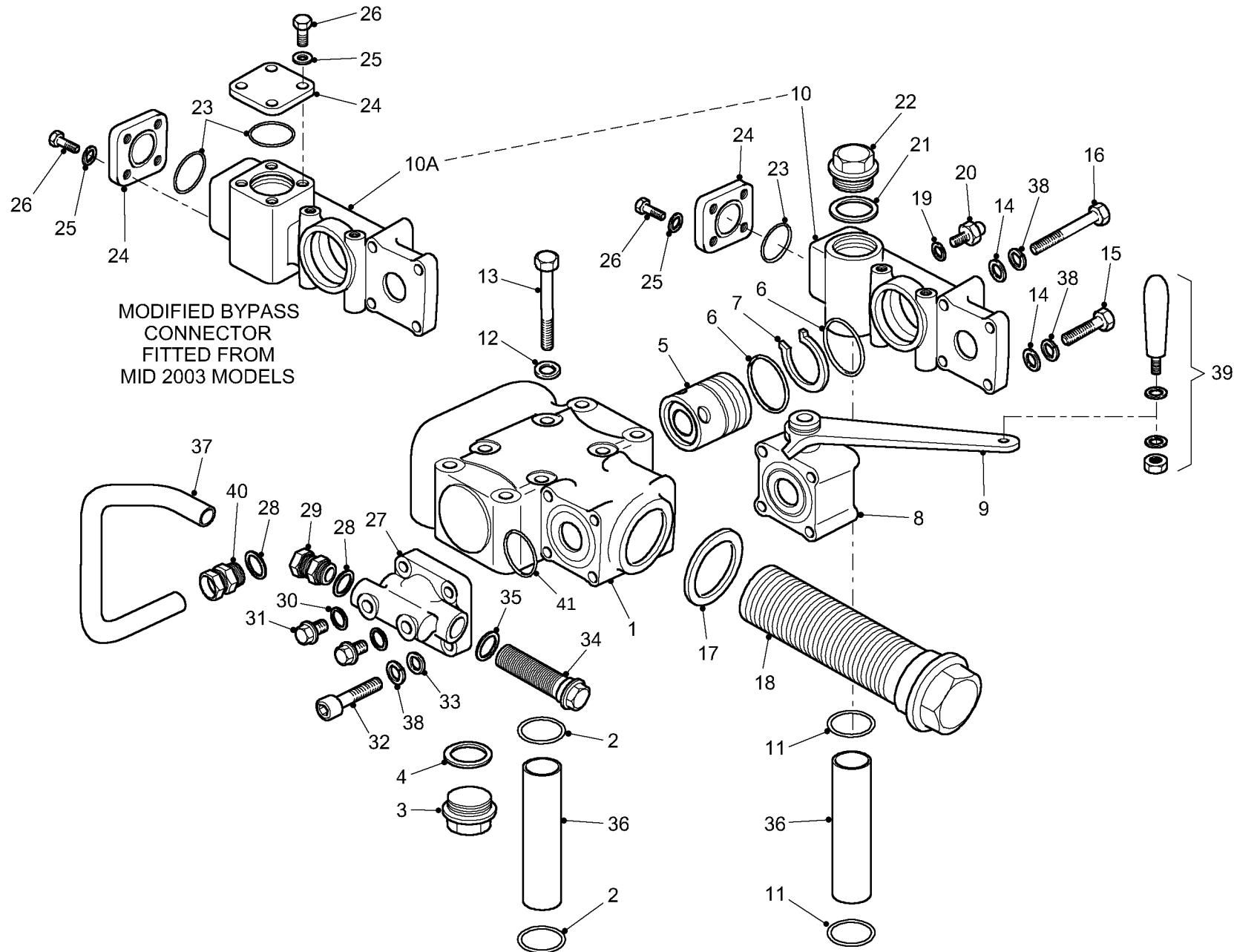
Item Number	Description	No. per Unit	Light Alloy 2010	Gunmetal 2010	Light Alloy 3010	Gunmetal 3010	Light Alloy 4010/6010	Gunmetal 4010/6010
1*	Manifold – Central	1	60032	60032/100	60032	60032/100	60032/01	60032/101
2	Stud	8	MS49/25	MS49/25	MS49/25	MS49/25	MS49/25	MS49/25
3	Washer	8	MS25/10	MS25/10	MS25/10	MS25/10	MS25/10	MS25/10
4	Washer, Spring	8	MS29/7	MS29/7	MS29/7	MS29/7	MS29/7	MS29/7
5	Nut	8	MS35/9	MS35/9	MS35/9	MS35/9	MS35/9	MS35/9
6	Washer	4	MS25/10	MS25/10	MS25/10	MS25/10	MS25/10	MS25/10
7	Spring Washer	4	MS29/7	MS29/7	MS29/7	MS29/7	MS29/7	MS29/7
8*	Bolt – used on manifolds from mid-2003	4	MS18/110	MS18/110	MS18/110	MS18/110	MS18/110	MS18/110
9*	Bolt – only used on manifolds to mid-2003	2	MS18/100	MS18/100	MS18/100	MS18/100	MS18/100	MS18/100
10	Sealing Washer	2	MS133/10	MS133/10	MS133/10	MS133/10	MS133/10	MS133/10
11	Screw	2	MS165/35	MS165/35	MS165/35	MS165/35	MS165/35	MS165/35
12	'O' Ring	4	10701	10701	10701	10701	10701	10701
13	Union	1	56403	56403	56403	56403	56403	56403
14	Washer, Sealing	1	UFP2303/5	UFP2303/5	UFP2303/5	UFP2303/5	UFP2303/5	UFP2303/5
15*	Thermal Relief Valve Assembly - 42°C Setting	1	60809	60809	60809	60809	60809	60809
	Thermal Relief Valve Assembly - 74°C Setting	1	60809/01	60809/01	60809/01	60809/01	60809/01	60809/01
16	Washer, Sealing – now supplied with item 15	1	UFP2303/10	UFP2303/10	UFP2303/10	UFP2303/10	UFP2303/10	UFP2303/10
17	'O' Ring	2	50092	50092	50092	50092	50092	50092
18	Gasket – Filter Body	1	60035	60035	60035	60035	60035	60035
19*	Manifold –Outrigger	2	60033	60033/100	60033	60033/100	60033	60033/100
20	Stud	8	MS49/25	MS49/25	MS49/25	MS49/25	MS49/25	MS49/25
21	Washer	8	MS25/10	MS25/10	MS25/10	MS25/10	MS25/10	MS25/10
22	Spring Washer	1	MS29/7	MS29/7	MS29/7	MS29/7	MS29/7	MS29/7
23	Nut, Domed	8	MS42/5	MS42/5	MS42/5	MS42/5	MS42/5	MS42/5
24	Washer	8	MS25/10	MS25/10	MS25/10	MS25/10	MS25/10	MS25/10
25	Spring Washer	8	MS29/7	MS29/7	MS29/7	MS29/7	MS29/7	MS29/7
26	Screw	8	MS06/25	MS06/25	MS06/25	MS06/25	MS06/25	MS06/25
27	Plug Shoulder	1	S64/6	S64/6	S64/6	S64/6	S64/6	S64/6
28	Washer, Sealing	1	UFP2303/10	UFP2303/10	UFP2303/10	UFP2303/10	UFP2303/10	UFP2303/10
29	Blanking Plate	2	51281/09	51281/09	51281/09	51281/09	51281/09	51281/09
30	Washer	8	MS25/10	MS25/10	MS25/10	MS25/10	MS25/10	MS25/10
31	Spring Washer	8	MS29/7	MS29/7	MS29/7	MS29/7	MS29/7	MS29/7
32	Screw	8	MS06/25	MS06/25	MS06/25	MS06/25	MS06/25	MS06/25
33	No Longer Used	-	-	-	-	-	-	-
34	Blank Plate	2	60023	60023/100	60023	60023/100	60023	60023/100
35	Shim plate	2	60300	60300	60300	60300	60300	60300

Item 1 – Please quote pump serial number and specification when ordering to obtain correct manifold

Item 8, 9 – Manifolds to mid-2003 use 2 off item 8, 2 off item 9. Manifolds from mid-2003 use 4 off item 8 only.

Item 15 – Please quote pump serial number and specification when ordering to obtain correct thermal relief valve

World Series – WT Multi-Pressure Pump



Filter Housing Bypass & Relief Valve

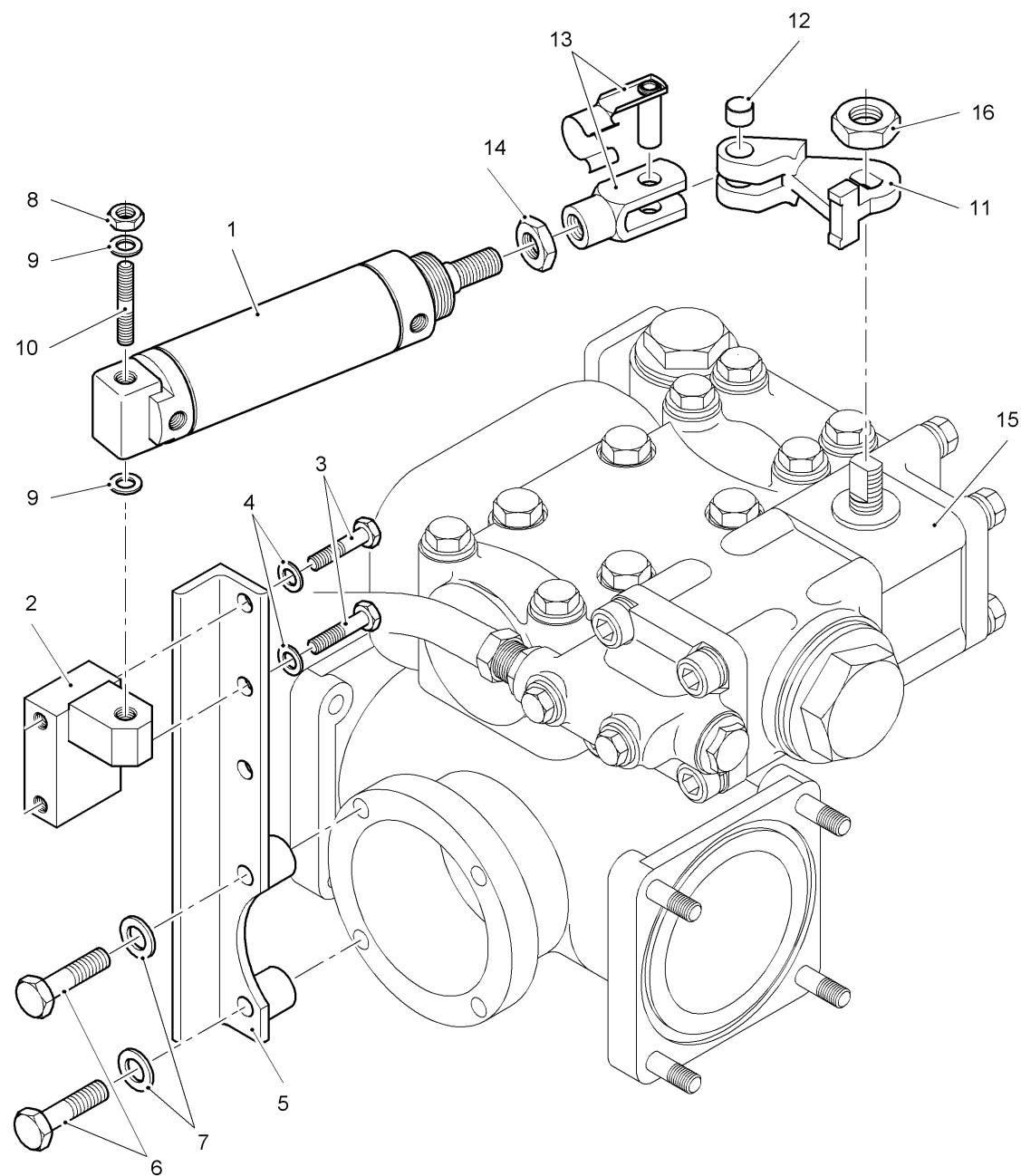
World Series – WT Multi-Pressure Pump

Item Number	Description	No./ Unit	Light Alloy 2010/3010	Gunmetal 2010/3010	Light Alloy 4010/6010	Gunmetal 4010/6010
1	Filter Body	1	60037	60037/100	4010 part nos. as per 2010/3010 unless stated -	
2	'O' Ring	2	UMP9700	UMP9700		
3	Plug Shoulder	1	S64/8	S64/8		
4	Sealing Washer	1	UFP2303/13	UFP2303/13		
5	Pressure Relief Valve	1	60186	60186		
6	'O' Ring	2	60166	60166		
7	Circlip	1	S80/35	S80/35		
8	Ball Valve	1	60038/04	60038/04		
9	Lever – Ball Valve	1	60039/01	60039/01		
10	By-pass Connector. To mid 2003	1	60040	60040/100		
10A	By-pass Connector. From mid 2003	1	60040/02	60040/102		
11	'O' Ring	2	UMP9700	UMP9700	Filter body – Anti-clockwise rotation All models Alum – 60037/01 All models Gunmetal – 60037/101 By-pass connector – Anti-clockwise rotation All models Alum – 60040/01 All models Gunmetal – 60040101 By-pass connector – Anti-clockwise rotation All models Alum – 60040/03 All models Gunmetal – 60040103	
12	Bonded seal	10	MS33/8	MS33/8		
13	Bolt, stainless steel	10	MS117/90	MS117/90		
14	Washer	4	MS25/10	MS25/10		
15	Bolt	2	MS18/90	MS18/90		
16	Bolt	2	MS18/110	MS18/110		
17	Washer, Sealing	1	UFP2303/15	UFP2303/15		
18	Filter Assembly	1	60051	60051		
19	Washer, Sealing	1	UFP2303/5	UFP2303/5		
20	Union	1	56403	56403		
21	Sealing Washer	1	UFP2303/14	UFP2303/14	60021/01 60021/01 60021/01 60021/01 60254/02 60254/02 60254/02 60254/02	
22	Plug Shoulder	1	S64/9	S64/9		
23	'O' Ring	2	60166	60166		
24	Seal Plate	2	60168	60168		
25	Washer, spring	8	MS29/6	MS29/6		
26	Screw	8	MS05/25	MS05/25		
27	Primer Filter Housing	1	60236	60236/100		
28	Washer, Sealing	2	UFP2303/8	UFP2303/8		
29	Straight Coupler	2	55873	55873		
30	Washer, Sealing	2	UFP2303/5	UFP2303/5		
31	Plug Shoulder	2	S64/2	S64/2	60021/01 60021/01 60021/01 60021/01 60254/02 60254/02 60254/02 60254/02	
32	Screw	4	MS165/30	MS165/30		
33	Washer	4	MS25/10	MS25/10		
34	Strainer Assy	1	57456	57456		
35	Washer, Sealing	1	UFP2303/10	UFP2303/10		
36	Transfer Tube	2	60021	60021		
37	Primer Disengaging Pipe	1	60254	60254		
38	Spring Washer	8	MS29/7	MS29/7		
39	Handle Assembly	1	60232/01	60232/01		
40	Stud Coupling	2	55873	55873		
41	O ring	1	53750	53750		

Filter Housing By-pass & Relief Valve

World Series – WT Multi-Pressure Pump

Pneumatic Control High/Low Pressure Valve



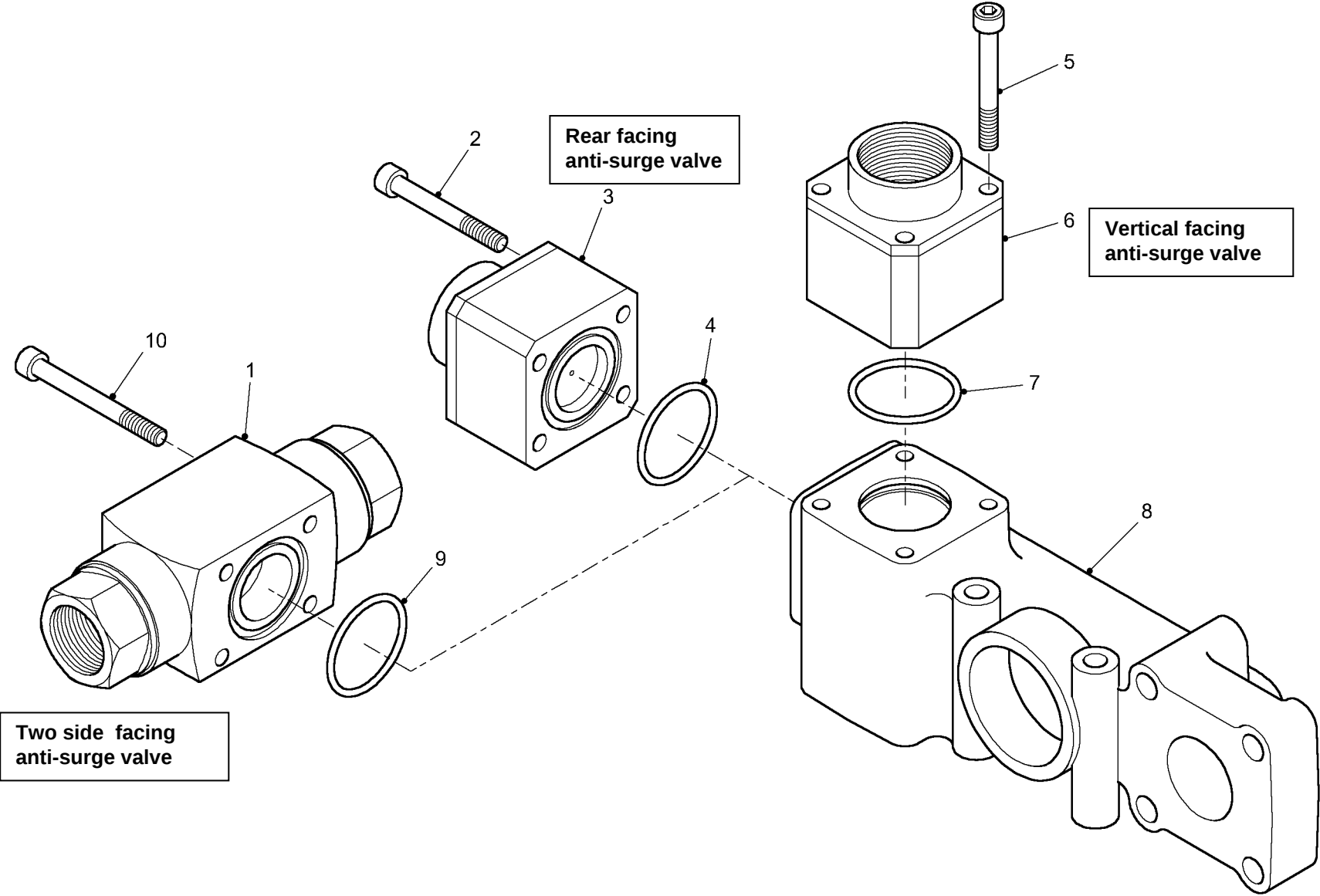
World Series – WT Multi-Pressure Pump

Item Number	Description	No. per Unit	Light Alloy All models	Gunmetal All models
1	Cylinder	1	60241	60241
2	Cylinder support	1	60724/01	60724/01
3	Screw	2	MS05/20	MS05/20
4	Washer, spring	2	MS29/6	MS29/6
5A	Support angle, on left side, blanking plate only	1	60801	60801
5B	Support angle, on left side, elbow fitted	1	60801/01	60801/01
5C	Support angle, on right side, blanking plate only	1	60801/02	60801/02
5D	Support angle, on right side, elbow fitted	1	60801/03	60801/03
5E	Support angle, on left side, twin elbow or CAFS	1	60801/04	60801/04
5F	Support angle, on right side, twin elbow or CAFS	1	60801/05	60801/05
6	Cap screw, for support angles 5A to 5D	2	MS18/50	MS18/50
-	Cap screw, for support angles 5E, 5F	2	MS165/45	MS165/45
7	Spring washer	2	MS29/7	MS29/7
8	Nut	1	MS141/6	MS141/6
9	Washer	1	MS125/10	MS125/10
10	Stud	1	MS149/40	MS149/40
11	Handle	1	60039/12	60039/12
12	DU Bearing	1	56949/02	56949/02
13	Clevis	1	60242	60242
14	Thin nut	1	60243	60243
15	Ball valve	1	60038/04	60038/04
16	Nut, supplied as part of item 15	1	-	-

Pneumatic Control High/Low Pressure Valve

World Series – WT Multi-Pressure Pump

Anti-surge Valve Options

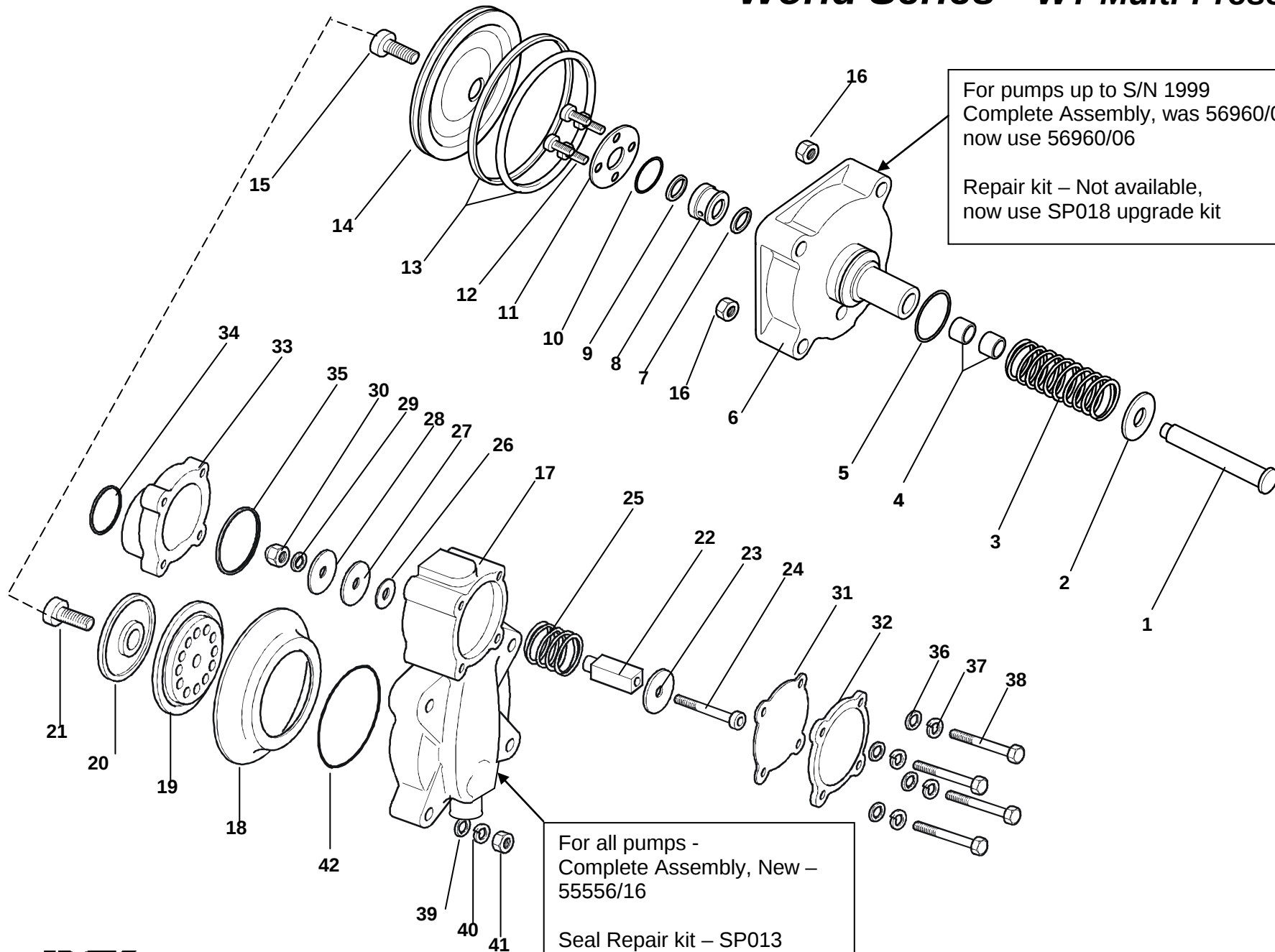


Anti-surge Valve Options

Item Number	Description	No./ Unit	Light Alloy All models	Gunmetal All models
1	Two side facing anti-surge valve	1	60250	60250
2	Screw	4	MS164/65	MS164/65
3	Rear facing anti-surge valve	1	60176	60176
4	O ring	1	60166	60166
5	Screw	4	MS164/65	MS164/65
6	Vertical anti-surge valve	1	60176	60176
7	O ring	1	60166	60166
8	By-pass connector (from mid-2003) Clockwise rotation pump	1	60040/02	60040/102
-	By-pass connector (from mid-2003) Anti-clockwise rotation pump	1	60040/03	60040/103
9	O ring	1	60166	60166
10	Screw	4	MS164/75	MS164/75

World Series – WT Multi-Pressure Pump

Piston Primer – fitted to pumps up to serial number 1999



World Series – WT Multi-Pressure Pump

Item Number	Description	No./ Unit	Light Alloy 2010	Gunmetal 2010	Light Alloy 3010	Gunmetal 3010	Light Alloy 4010/6010	Gunmetal 4010/6010
1	Piston Rod Assy	2	Not available - now use Upgrade kit - SP018					
2	Spring Seat	2	Not available - now use Upgrade kit - SP018					
3	Spring	2	57117/02	57117/02	57117/02	57117/02	57117/02	57117/02
4	DU Bearing	4	56949	56949	56949	56949	56949	56949
5	'O' Ring	2	52634	52634	52634	52634	52634	52634
6	Cylinder – Bronze	2	56957/02	56957/02	56957/02	56957/02	56957/02	56957/02
7	Variseal	2	56954	56954	56954	56954	56954	56954
8	Sleeve	2	56958	56958	56958	56958	56958	56958
9	Glydring	2	56955	56955	56955	56955	56955	56955
10	'O' Ring	2	52816	52816	52816	52816	52816	52816
11	Clamp Washer	2	56959	56959	56959	56959	56959	56959
12	Screw	8	MS161/10	MS161/10	MS161/10	MS161/10	MS161/10	MS161/10
13	Piston Ring	2	Not available - now use Upgrade kit - SP018. See Page 22.					
14	Piston	2	Not available - now use Upgrade kit - SP018. See Page 22.					
15	Screw	2	MS164L/20	MS164L/20	MS164L/20	MS164L/20	MS164L/20	MS164L/20
16	Special Nut	4	57414	57414	57414	57414	57414	57414
17	Cover & Priming Valve Housing	2	55551/14	55551/14	55551/14	55551/14	55551/14	55551/14
18	Seal – Discharge	2	56961	56961	56961	56961	56961	56961
19	Orifice Plate	2	56963	56963	56963	56963	56963	56963
20	Seal – Inlet	2	56962	56962	56962	56962	56962	56962
21	Screw	2	MS164/16	MS164/16	MS164/16	MS164/16	MS164/16	MS164/16
22	Spacer – Priming Valve	2	55665	55665	55665	55665	55665	55665
23	Thrust Pad – Priming Valve	2	55666	55666	55666	55666	55666	55666
24	Screw	2	MS163/50	MS163/50	MS163/50	MS163/50	MS163/50	MS163/50
25	Spring – Priming Valve	2	UFP6488	UFP6488	UFP6488	UFP6488	UFP6488	UFP6488
26	Seal Retaining Washer – Priming Valve	2	55668	55668	55668	55668	55668	55668
27	Seal Washer – Priming Valve	2	55669	55669	55669	55669	55669	55669
28	Seal Support Washer – Priming Valve	2	55670	55670	55670	55670	55670	55670
29	Washer	2	MS125/7	MS125/7	MS125/7	MS125/7	MS125/7	MS125/7
30	Nut	2	MS141/4	MS141/4	MS141/4	MS141/4	MS141/4	MS141/4
31	Diaphragm – Priming Valve	2	56123	56123	56123	56123	56123	56123
32	Cover – Priming Valve	2	56120	56120	56120	56120	56120	56120
33	Inlet – Priming Valve	2	57229/04	57229/05	57229/04	57229/05	57229/04	57229/05
34	'O' Ring	2	55562	55562	55562	55562	55562	55562
35	'O' Ring	2	57204	57204	57204	57204	57204	57204
36	Washer	8	MS25/7	MS25/7	MS25/7	MS25/7	MS25/7	MS25/7
37	Washer, Spring	8	MS29/5	MS29/5	MS29/5	MS29/5	MS29/5	MS29/5
38	Bolt	8	MS16/60	MS16/60	MS16/60	MS16/60	MS16/60	MS16/60
39	Washer	8	MS125/10	MS125/10	MS125/10	MS125/10	MS125/10	MS125/10
40	Washer, Spring	8	MS29/7	MS29/7	MS29/7	MS29/7	MS29/7	MS29/7
41	Nut	8	MS35/9	MS35/9	MS35/9	MS35/9	MS35/9	MS35/9
42	'O' Ring	2	60351	60351	60351	60351	60351	60351

Piston Primer - fitted to pumps up to serial number 1999

World Series – WT Multi-Pressure Pump

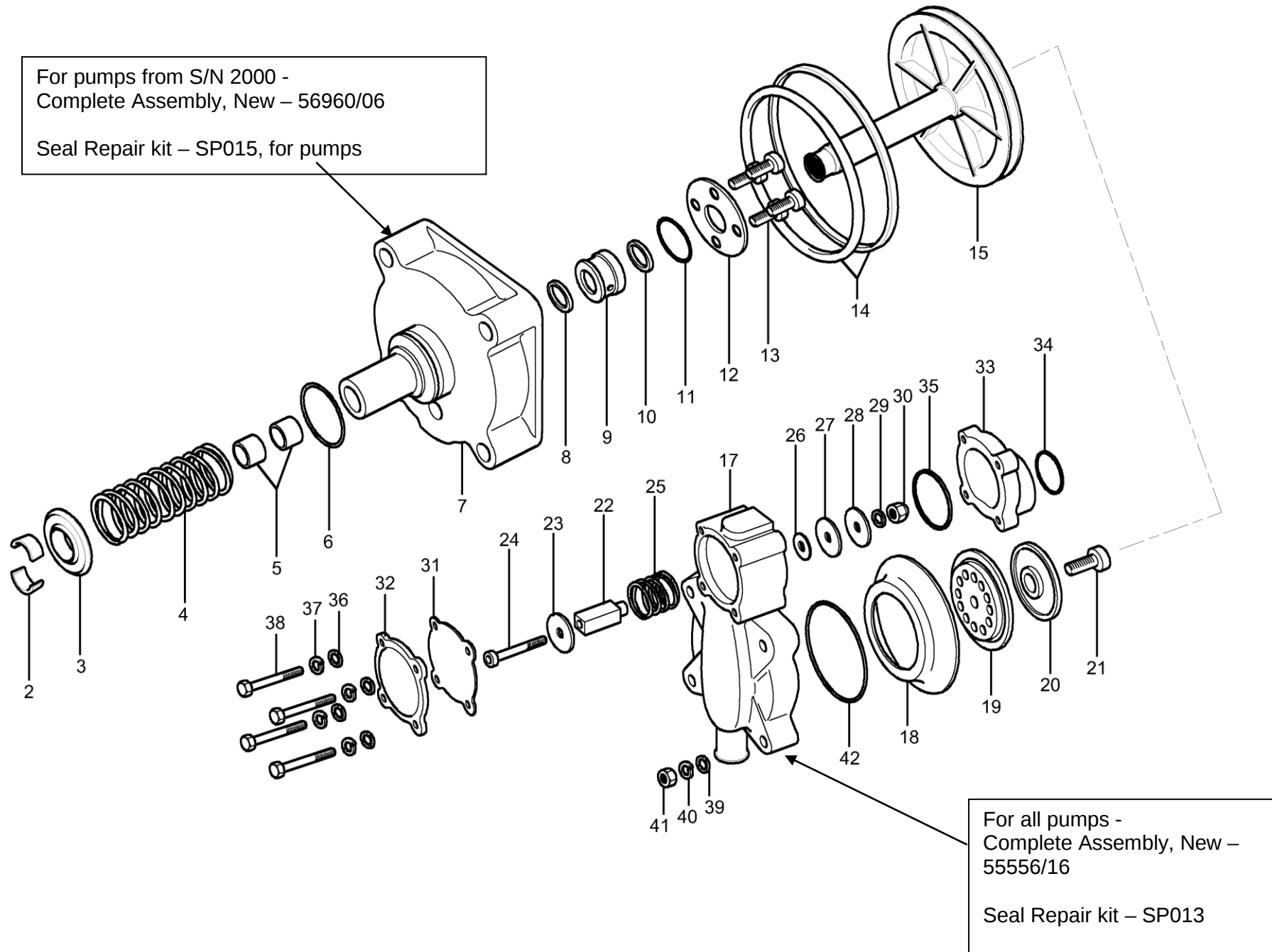
Piston Primer - fitted to pumps up to serial number 1999

Item Number on P21	Description	No./ Unit	Part number for all models
	Piston Primer Cover Seal Kit – for all WT Pumps, all Serial Numbers, comprises of -		SP013
18	Seal, discharge	1	56961
20	Seal, inlet	1	56962
21	Screw, stainless steel	1	MS164/16
27	Seal washer, priming	1	55669
31	Diaphragm, priming	1	56123
34	O ring	1	55562
35	O ring	1	57204
42	O ring	1	60351
See page 21	Piston Primer Cylinder Seal Kit – for all WT Pumps, from S/N 2000, comprises of -		SP015
4	DU Bearing	2	56949
5	O ring I/D 34.5	1	52634
7	Variseal	1	56954
9	Glydring	1	56955
10	O ring I/D 25.1	1	52816
13	Piston ring	1	60652
See page 24	Piston Primer Cylinder Upgrade Kit From pre s/n 1999 to post s/n 2000 type		SP018
2	Split collet	1	60650
3	Spring retainer	1	60649
5	DU Bearing	2	56949
6	O ring	1	52634
8	Variseal	1	56954
10	Glydring	1	56955
11	O ring	1	52816
14	Piston ring	1	60652
15	Piston assembly	1	60835

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World Series – WT Multi-Pressure Pump

Piston Primer - fitted to pumps from serial number 2000



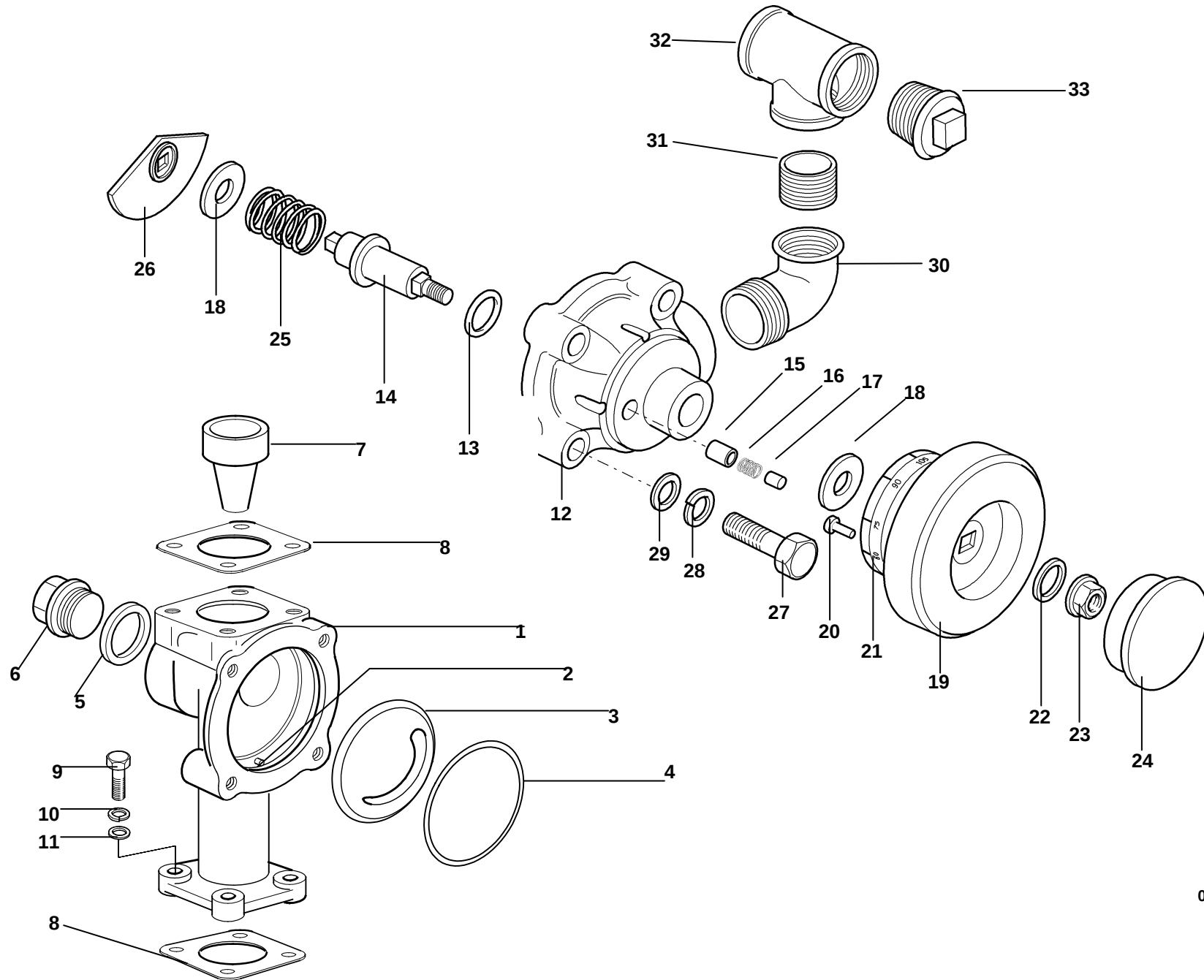
World Series – WT Multi-Pressure Pump

Item Number	Description	No./ Unit	Light Alloy 2010	Gunmetal 2010	Light Alloy 3010	Gunmetal 3010	Light Alloy 4010/6010	Gunmetal 4010/6010
1	Supplied as part of item 15		-	-	-	-	-	-
2	Split Collet	2	60650	60650	60650	60650	60650	60650
3	Spring Retainer	2	60649	60649	60649	60649	60649	60649
4	Spring	2	57117/02	57117/02	57117/02	57117/02	57117/02	57117/02
5	DU Bearing	4	56949	56949	56949	56949	56949	56949
6	'O' Ring	2	52634	52634	52634	52634	52634	52634
7	Cylinder - Bronze	2	56957/02	56957/02	56957/02	56957/02	56957/02	56957/02
8	Variseal	2	56954	56954	56954	56954	56954	56954
9	Sleeve	2	56958	56958	56958	56958	56958	56958
10	Glydring	2	56955	56955	56955	56955	56955	56955
11	'O' Ring	2	52816	52816	52816	52816	52816	52816
12	Clamp Washer	2	56959	56959	56959	56959	56959	56959
13	Screw	8	MS161/10	MS161/10	MS161/10	MS161/10	MS161/10	MS161/10
14	Piston Ring	2	60652	60652	60652	60652	60652	60652
15	Piston Rod Assy	2	60835	60835	60835	60835	60835	60835
17	Cover & Priming Valve Housing	2	55551/14	55551/14	55551/14	55551/14	55551/14	55551/14
18	Seal - Discharge	2	56961	56961	56961	56961	56961	56961
19	Orifice Plate	2	56963	56963	56963	56963	56963	56963
20	Seal - Inlet	2	56962	56962	56962	56962	56962	56962
21	Screw	2	MS164/16	MS164/16	MS164/16	MS164/16	MS164/16	MS164/16
22	Spacer - Priming Valve	2	55665	55665	55665	55665	55665	55665
23	Thrust Pad - Priming Valve	2	55666	55666	55666	55666	55666	55666
24	Screw. NB fit with Loctite 542 on thread	2	MS163/45	MS163/45	MS163/45	MS163/45	MS163/45	MS163/45
25	Spring - Priming Valve	2	57555	57555	57555	57555	57555	57555
26	Seal Retaining Washer - Priming Valve	2	55668	55668	55668	55668	55668	55668
27	Seal Washer - Priming Valve	2	55669	55669	55669	55669	55669	55669
28	Seal Support Washer - Priming Valve	2	55670	55670	55670	55670	55670	55670
29	Washer	2	MS125/7	MS125/7	MS125/7	MS125/7	MS125/7	MS125/7
30	Nut	2	MS141/4	MS141/4	MS141/4	MS141/4	MS141/4	MS141/4
31	Diaphragm - Priming Valve	2	56123	56123	56123	56123	56123	56123
32	Cover - Priming Valve	2	56120	56120	56120	56120	56120	56120
33	Inlet - Priming Valve	2	57229/05	57229/05	57229/05	57229/05	57229/05	57229/05
34	'O' Ring	2	55562	55562	55562	55562	55562	55562
35	'O' Ring	2	57204	57204	57204	57204	57204	57204
36	Washer	8	MS25/7	MS25/7	MS25/7	MS25/7	MS25/7	MS25/7
37	Washer, Spring	8	MS29/5	MS29/5	MS29/5	MS29/5	MS29/5	MS29/5
38	Bolt	8	MS16/60	MS16/60	MS16/60	MS16/60	MS16/60	MS16/60
39	Washer	8	MS125/10	MS125/10	MS125/10	MS125/10	MS125/10	MS125/10
40	Washer, Spring	8	MS29/7	MS29/7	MS29/7	MS29/7	MS29/7	MS29/7
41	Nut	8	MS35/9	MS35/9	MS35/9	MS35/9	MS35/9	MS35/9
42	'O' Ring	2	60351	60351	60351	60351	60351	60351

Piston Primer - fitted to pumps from serial number 2000

World Series – WT Multi-Pressure Pump

RTP Foam Inductor Assembly

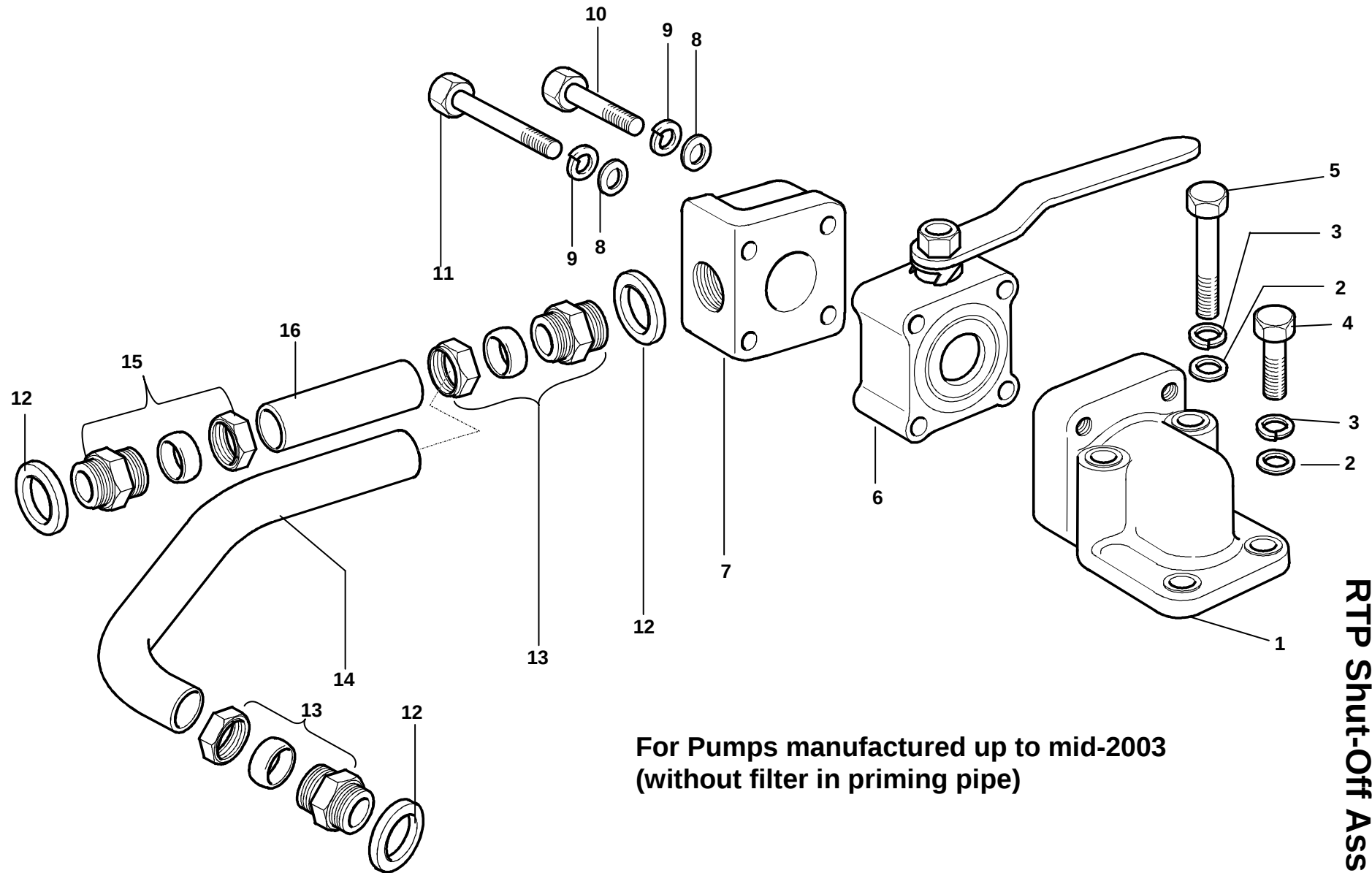


World Series – WT Multi-Pressure Pump

RTP Foam Inductor Assembly

Item Number	Description	No./ Unit	Light Alloy 2010	Gunmetal 2010	Light Alloy 3010	Gunmetal 3010	Light Alloy 4010/6010	Gunmetal 4010/6010
-	Complete assembly items 1-7 and 12-29		60253	60253/100	60253	60253/100	60253	60253/100
1	Body – Inductor	1	51890/06	51890/07	51890/06	51890/07	51890/06	51890/07
2	Spirol Pin	1	MS177/54	MS177/54	MS177/54	MS177/54	MS177/54	MS177/54
3	Orifice Plate	1	51902/03	51902/03	51902/03	51902/03	51902/03	51902/03
4	'O' Ring	1	GPL10556	GPL10556	GPL10556	GPL10556	GPL10556	GPL10556
5	Washer, Sealing	1	UFP2303/10	UFP2303/10	UFP2303/10	UFP2303/10	UFP2303/10	UFP2303/10
6	Plug Shoulder	1	S64/6	S64/6	S64/6	S64/6	S64/6	S64/6
7	Nozzle	1	50733/01	50733/01	50733/01	50733/01	50733/01	50733/01
8	Gasket	2	60234	60234	60234	60234	60234	60234
9	Screw	4	MS05/25	MS05/25	MS05/25	MS05/25	MS05/25	MS05/25
10	Spring Washer	4	MS29/6	MS29/6	MS29/6	MS29/6	MS29/6	MS29/6
11	Washer	4	MS25/9	MS25/9	MS25/9	MS25/9	MS25/9	MS25/9
12	Housing – Valve	1	51892	51892/01	51892	51892/01	51892	51892/01
13	'O' Ring	1	51894	51894	51894	51894	51894	51894
14	Spindle – Valve	1	51893	51893	51893	51893	51893	51893
15	Detent Tube	1	51896	51896	51896	51896	51896	51896
16	Compression Spring	1	51949	51949	51949	51949	51949	51949
17	Friction Plug	1	51950	51950	51950	51950	51950	51950
18	Special Washer	2	60274	60274	60274	60274	60274	60274
19	Knob	1	51978/01	51978/01	51978/01	51978/01	51978/01	51978/01
20	Stop	2	51905	51905	51905	51905	51905	51905
21	Calibration Label	1	52324/01	52324/01	52324/01	52324/01	52324/01	52324/01
22	Washer	1	MS25/9	MS25/9	MS25/9	MS25/9	MS25/9	MS25/9
23	Nut	1	MS41/5	MS41/5	MS41/5	MS41/5	MS41/5	MS41/5
24	Insert	1	50747/01	50747/01	50747/01	50747/01	50747/01	50747/01
25	Compression Spring	1	51900	51900	51900	51900	51900	51900
26	Control Plate – Valve	1	51901	51901	51901	51901	51901	51901
27	Bolt	4	MS17/50	MS17/50	MS17/50	MS17/50	MS17/50	MS17/50
28	Washer	4	MS25/9	MS25/9	MS25/9	MS25/9	MS25/9	MS25/9
29	Washer	4	MS29/6	MS29/6	MS29/6	MS29/6	MS29/6	MS29/6
30	Male/female equal elbow	1	60860	60860	60860	60860	60860	60860
31	1" BSP parallel nipple	1	60862	60862	60862	60862	60862	60862
32	Female equal tee	1	60861	60861	60861	60861	60861	60861
33	Socket Pipe Plug	1	GPD8292/1	GPD8292/1	GPD8292/1	GPD8292/1	GPD8292/1	GPD8292/1

World Series – WT Multi-Pressure Pump



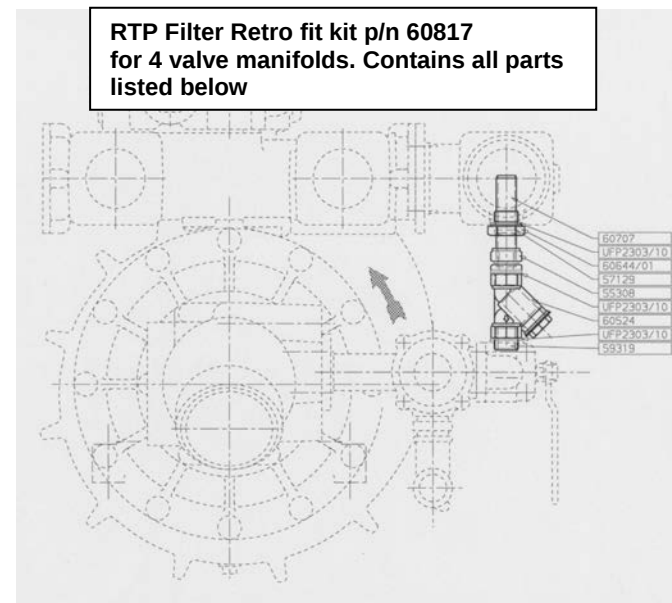
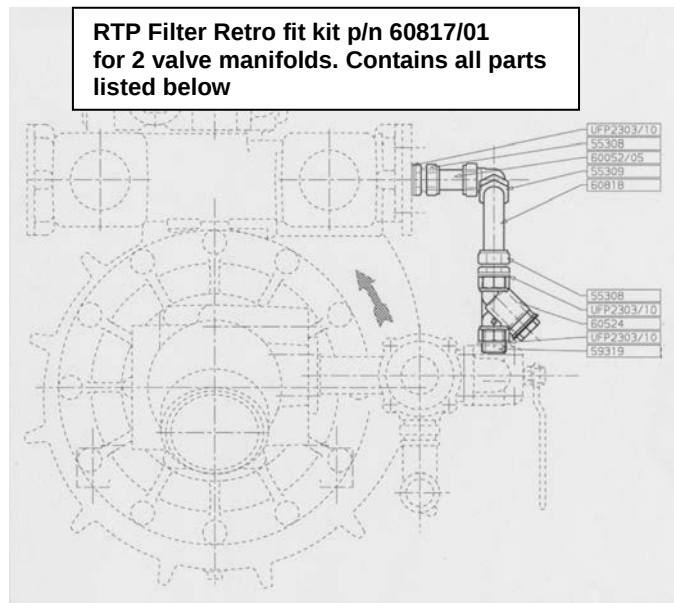
For Pumps manufactured up to mid-2003
(without filter in priming pipe)

RTP Shut-Off Assembly

World Series – WT Multi-Pressure Pump

RTP Shut-Off Assembly

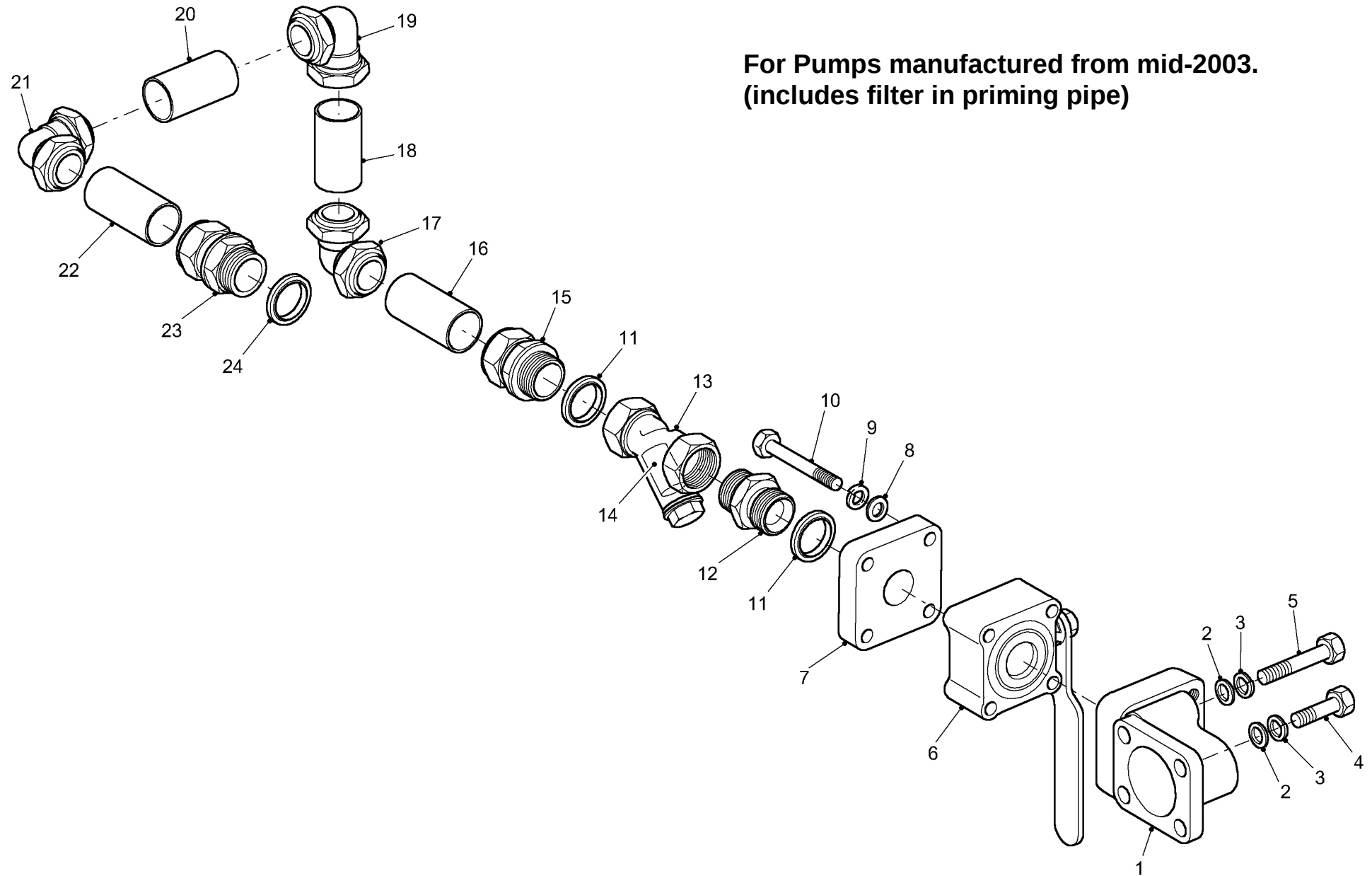
Item Number	Description	No./ Unit	Light Alloy 2010	Gunmetal 2010	Light Alloy 3010	Gunmetal 3010	Light Alloy 4010/6010	Gunmetal 4010/6010
1	Elbow	1	60055	60055/100	60055	60055/100	60055	60055/100
2	Washer	4	MS25/9	MS25/9	MS25/9	MS25/9	MS25/9	MS25/9
3	Spring Washer	4	MS29/6	MS29/6	MS29/6	MS29/6	MS29/6	MS29/6
4	Screw	2	MS05/25	MS05/25	MS05/25	MS05/25	MS05/25	MS05/25
5	Bolt	2	MS17/60	MS17/60	MS17/60	MS17/60	MS17/60	MS17/60
6	Ball Valve	1	60038/01	60038/01	60038/01	60038/01	60038/01	60038/01
7	Elbow	1	60056	60056/100	60056	60056/100	60056	60056/100
8	Washer	4	MS25/9	MS25/9	MS25/9	MS25/9	MS25/9	MS25/9
9	Spring Washer	4	MS29/6	MS29/6	MS29/6	MS29/6	MS29/6	MS29/6
10	Screw	2	MS05/25	MS05/25	MS05/25	MS05/25	MS05/25	MS05/25
11	Bolt	2	MS17/50	MS17/50	MS17/50	MS17/50	MS17/50	MS17/50
12	Washer, Sealing	2	UFP2303/10	UFP2303/10	UFP2303/10	UFP2303/10	UFP2303/10	UFP2303/10
13	Stud Coupling	1	55308	55308	55308	55308	55308	55308
13	Stud Coupling	1	55308	55308	55308	55308	55308	55308
14	Connecting Pipe RTP	1	60279	60279	60279	60279	60279/01	60279/01
15	Stud Coupling	1	55308/02	55308/02	55308/02	55308/02	55308/02	55308/02
16	Connecting Pipe	1	60052	60052	60052	60052	60052/01	60052/01



World Series – WT Multi-Pressure Pump

For Pumps manufactured from mid-2003.
(includes filter in priming pipe)

RTP Shut-Off Assembly



World Series – WT Multi-Pressure Pump

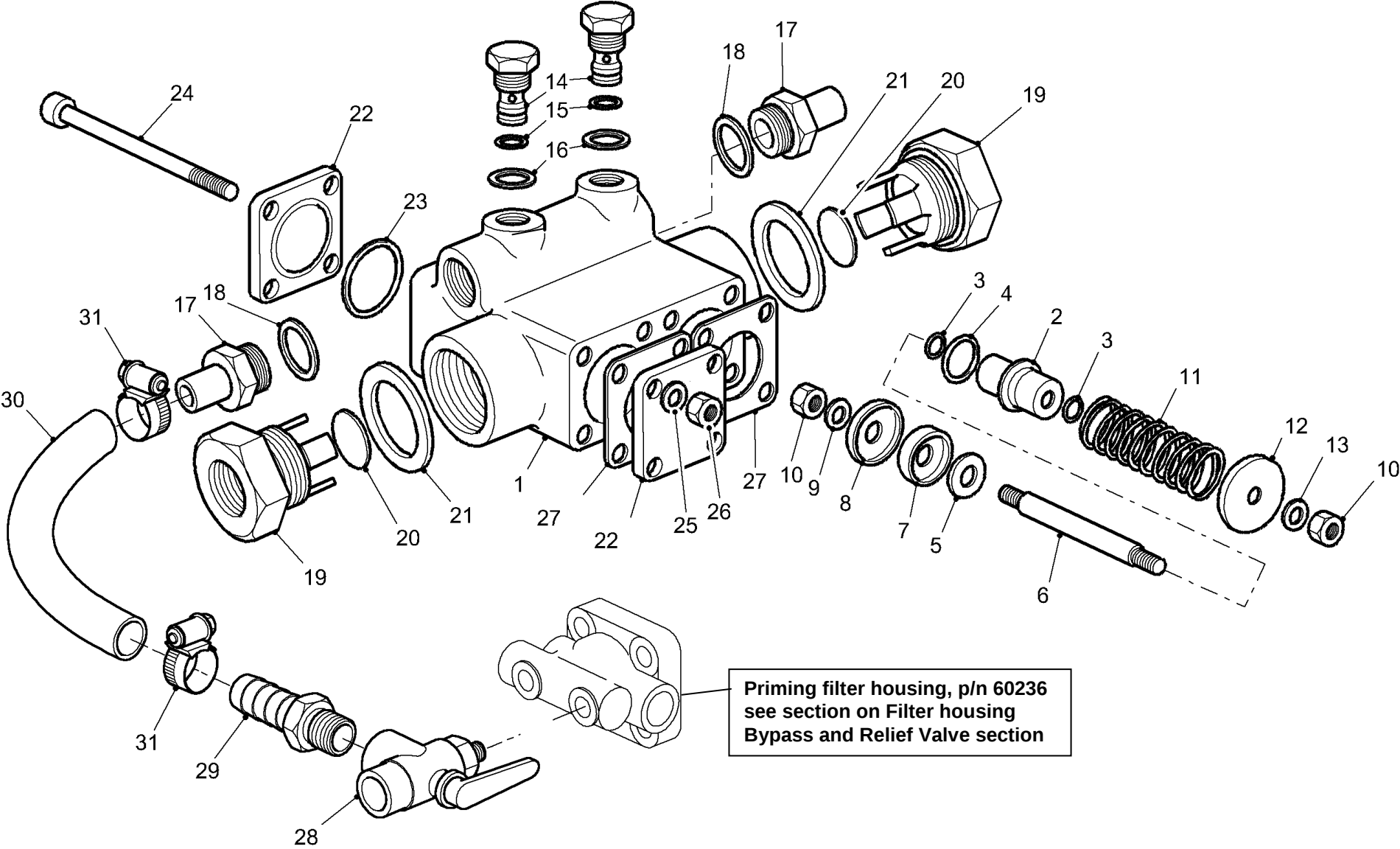
RTP Shut-Off Assembly

Item Number	Description	No./ Unit	Light Alloy 2010	Gunmetal 2010	Light Alloy 3010	Gunmetal 3010	Light Alloy 4010/6010	Gunmetal 4010/6010
1	Elbow	1	60055	60055/100	60055	60055/100	60055	60055/100
2	Washer	4	MS25/9	MS25/9	MS25/9	MS25/9	MS25/9	MS25/9
3	Spring Washer	4	MS29/6	MS29/6	MS29/6	MS29/6	MS29/6	MS29/6
4	Screw	2	MS05/25	MS05/25	MS05/25	MS05/25	MS05/25	MS05/25
5	Bolt	2	MS17/60	MS17/60	MS17/60	MS17/60	MS17/60	MS17/60
6	Ball Valve	1	60038/01	60038/01	60038/01	60038/01	60038/01	60038/01
7	Clamp plate	1	60756	60756	60756	60756	60756	60756
8	Washer	4	MS25/9	MS25/9	MS25/9	MS25/9	MS25/9	MS25/9
9	Spring Washer	4	MS29/6	MS29/6	MS29/6	MS29/6	MS29/6	MS29/6
10	Bolt	4	MS17/65	MS17/65	MS17/65	MS17/65	MS17/65	MS17/65
11	Washer, Sealing	2	UFP2303/10	UFP2303/10	UFP2303/10	UFP2303/10	UFP2303/10	UFP2303/10
12	Adaptor, male	1	59182/04	59182/04	59182/04	59182/04	59182/04	59182/04
13	Y Strainer	1	60524	60524	60524	60524	60524	60524
14	Filter tube	1	60711	60711	60711	60711	60711	60711
15	Stud coupling	1	55308	55308	55308	55308	55308	55308
16	Copper tube	1	60741/02	60741/02	60741/02	60741/02	60741/02	60741/02
17	Elbow	1	55309	55309	55309	55309	55309	55309
18	Copper tube	1	60741/03	60741/03	60741/03	60741/03	60741/03	60741/03
19	Elbow	1	55309	55309	55309	55309	55309	55309
20*	Copper tube	1	60741/05	60741/05	60741/05	60741/05	60741/05	60741/05
21*	Elbow	1	55309	55309	55309	55309	55309	55309
22*	Copper tube	1	60741/01	60741/01	60741/01	60741/01	60741/01	60741/01
23	Stud coupling	1	55308	55308	55308	55308	55308	55308
24	Washer, sealing	1	UFP2303/10	UFP2303/10	UFP2303/10	UFP2303/10	UFP2303/10	UFP2303/10

*Note: Items 20, 21, 22 now replaced by pipe 60523/04, one off

World Series – WT Multi-Pressure Pump

Auto AFFF Valve



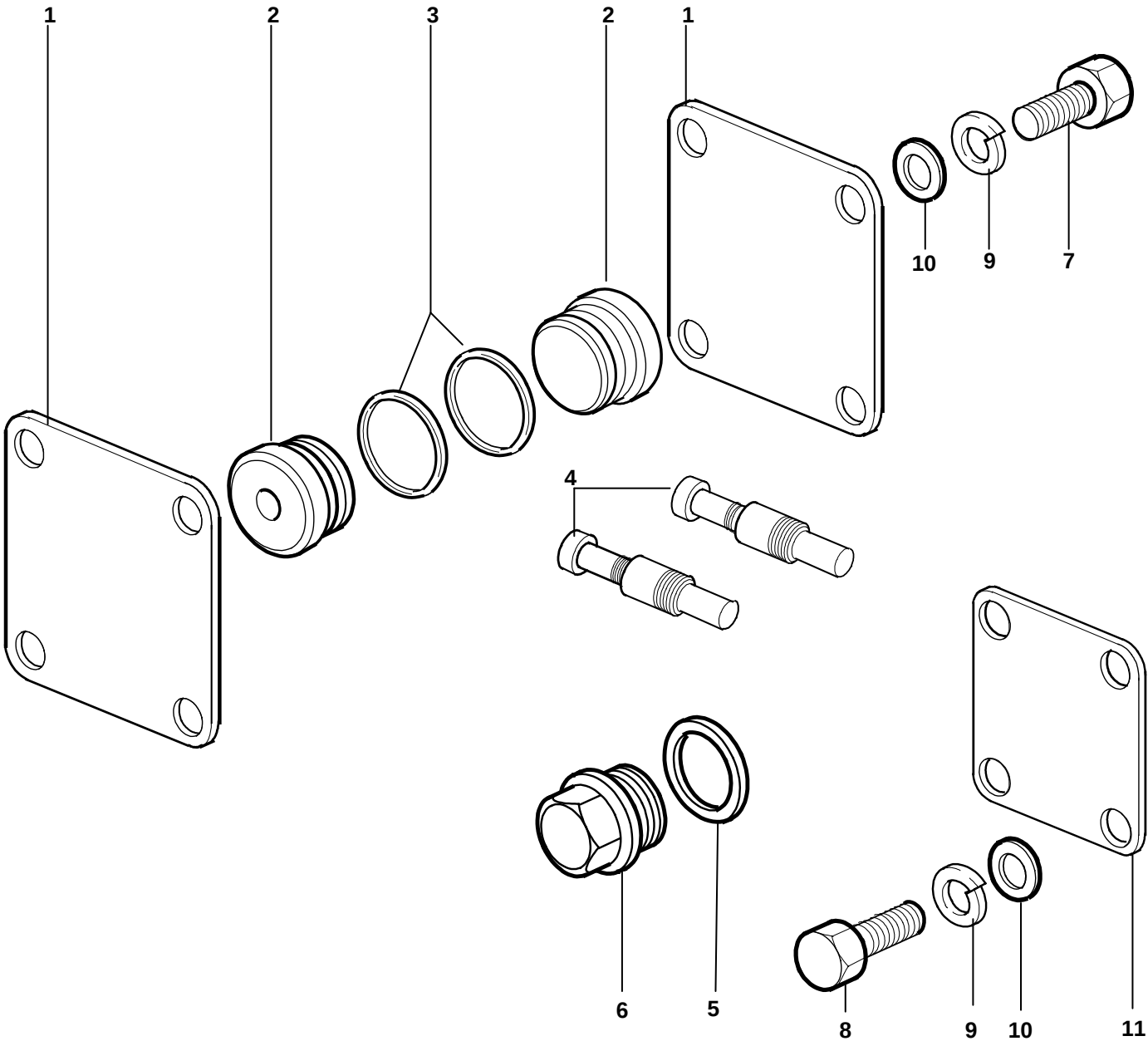
World Series – WT Multi-Pressure Pump

Auto AFFF Valve

Item Number	Description	No./ Unit	Light Alloy 2010	Gunmetal 2010	Light Alloy 3010	Gunmetal 3010	Light Alloy 4010/6010	Gunmetal 4010/6010
1	Body Valve	1	60059/01	60059/01	60059/01	60059/01	60059/01	60059/01
2	Bearing Spindle	2	60060/01	60060/01	60060/01	60060/01	60060/01	60060/01
3	Quad-Ring	4	60235	60235	60235	60235	60235	60235
4	'O' Ring	2	60192	60192	60192	60192	60192	60192
5	Collar – Valve	2	52193/01	52193/01	52193/01	52193/01	52193/01	52193/01
6	Valve Spindle	2	60062/01	60062/01	60062/01	60062/01	60062/01	60062/01
7	Valve – Rubber	2	52194/01	52194/01	52194/01	52194/01	52194/01	52194/01
8	Washer	2	52195/02	52195/02	52195/02	52195/02	52195/02	52195/02
9	Bonded Seal	2	MS133/5	MS133/5	MS133/5	MS133/5	MS133/5	MS133/5
10	Nut	4	MS141/3	MS141/3	MS141/3	MS141/3	MS141/3	MS141/3
11	Spring	2	60063	60063	60063	60063	60063	60063
12	Valve Head	2	60067	60067	60067	60067	60067	60067
13	Washer	2	MS125/6	MS125/6	MS125/6	MS125/6	MS125/6	MS125/6
14	Jet	2	60064	60064	60064	60064	60064	60064
15	'O' Ring	2	53504	53504	53504	53504	53504	53504
16	Washer, Sealing	2	UFP2303/8	UFP2303/8	UFP2303/8	UFP2303/8	UFP2303/8	UFP2303/8
17	Hose Union	2	60233	60233	60233	60233	60233	60233
18	Washer, Sealing	2	UFP2303/10	UFP2303/10	UFP2303/10	UFP2303/10	UFP2303/10	UFP2303/10
19	Valve Body	2	60169	60169	60169	60169	60169	60169
20	Valve Plate	2	60175	60175	60175	60175	60175	60175
21	Sealing Washer	2	UFP2303/14	UFP2303/14	UFP2303/14	UFP2303/14	UFP2303/14	UFP2303/14
22	Seal Plate	3	60168	60168	60168	60168	60168	60168
23	'O' Ring	2	60166	60166	60166	60166	60166	60166
24	Screw	8	MS64/140	MS64/140	MS64/140	MS64/140	MS64/140	MS64/140
25	Washer	4	MS25/9	MS25/9	MS25/9	MS25/9	MS25/9	MS25/9
26	Nut	4	MS41/5	MS41/5	MS41/5	MS41/5	MS41/5	MS41/5
27	Gasket	2	60234	60234	60234	60234	60234	60234
	Optional AFFF Flushing Kit (clockwise rotation)	1	60149/01	60149/01	60149/01	60149/01	60149/01	60149/01
28	3 way ball valve assembly	1	60278	60278	60278	60278	60278	60278
29	3/4in Hose tail adaptor, for 60278	1	60233/02	60233/02	60233/02	60233/02	60233/02	60233/02
30	Hose, AFFF to Manifold, 400mm	1	54737/05	54737/05	54737/05	54737/05	54737/05	54737/05
31	Hose clip for 54737/05	2	MS82/3	MS82/3	MS82/3	MS82/3	MS82/3	MS82/3

World Series – WT Multi-Pressure Pump

Priming System Blank Assembly



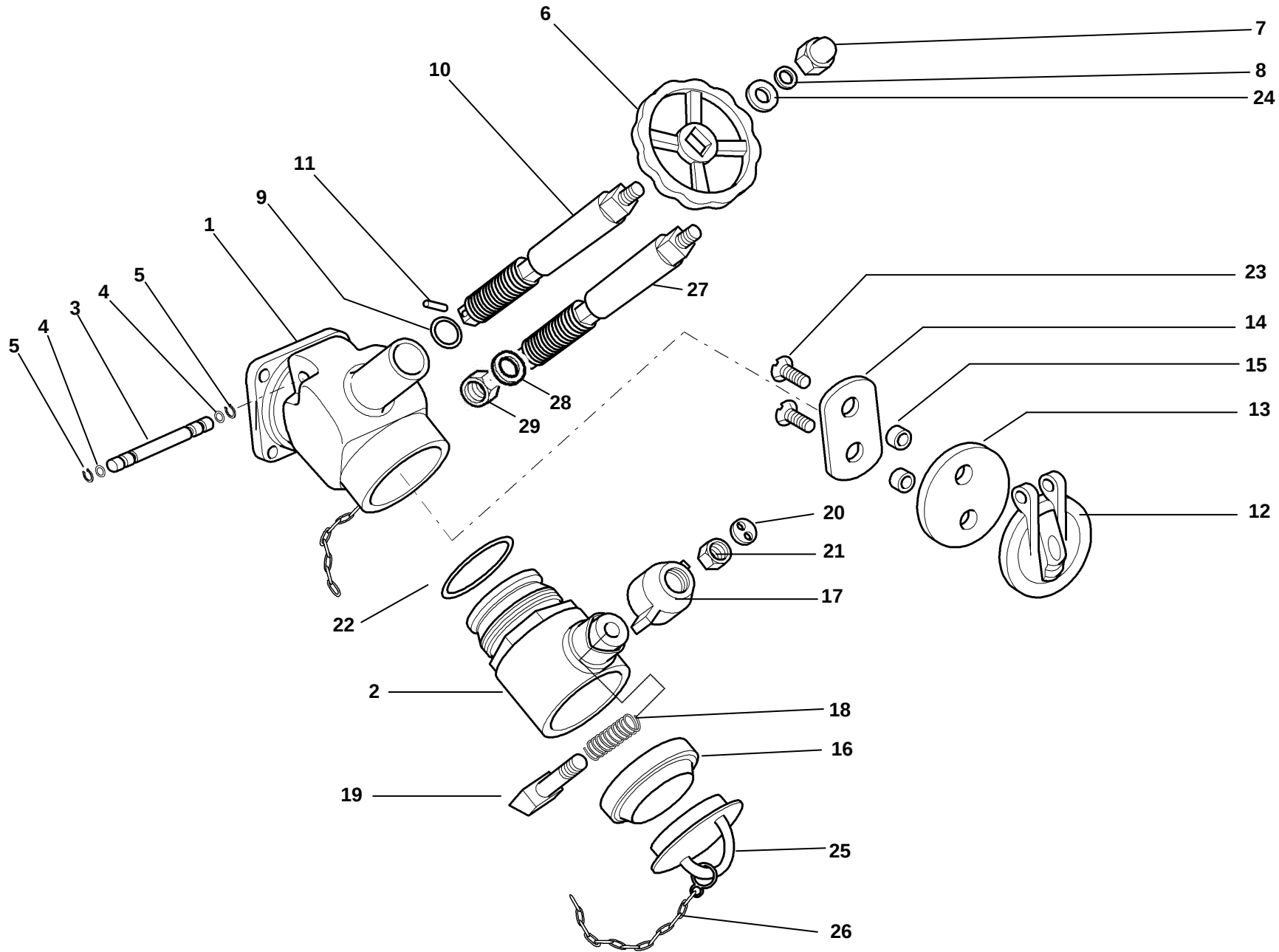
World Series – WT Multi-Pressure Pump

Item Number	Description	No. per Unit	Light Alloy 2010	Gunmetal 2010	Light Alloy 3010	Gunmetal 3010	Light Alloy 4010/6010	Gunmetal 4010/6010
1	Cover Plate, redundant piston primer	2	60204	60204	60204	60204	60204	60204
2	Closing Bung	2	60091	60091	60091	60091	60091	60091
3	'O' Ring	2	52634	52634	52634	52634	52634	52634
4	Seal Screw Assembly	2	60184	60184	60184	60184	60184	60184
5	Washer – Sealing	1	UFP2303/8	UFP2303/8	UFP2303/8	UFP2303/8	UFP2303/8	UFP2303/8
6	Plug	1	S64/4	S64/4	S64/4	S64/4	S64/4	S64/4
7	Screw Hex Head	8	MS06/20	MS06/20	MS06/20	MS06/20	MS06/20	MS06/20
8	Screw Hex Head	4	MS06/25	MS06/25	MS06/25	MS06/25	MS06/25	MS06/25
9	Washer – Spring	12	MS29/7	MS29/7	MS29/7	MS29/7	MS29/7	MS29/7
10	Washer – Plain	12	MS25/10	MS25/10	MS25/10	MS25/10	MS25/10	MS25/10
11	Cover Plate, redundant primer filter housing	1	60299	60299	60299	60299	60299	60299

Priming System Blank Assembly

World Series – WT Multi-Pressure Pump

Delivery Valve 2.5" I/C BS



World Series – WT Multi-Pressure Pump

Delivery Valve 2.5" I/C BS

Item Number	Description	No. per Valve	Light Alloy 2010	Gunmetal 2010	Light Alloy 3010	Gunmetal 3010	Light Alloy 4010/6010	Gunmetal 4010/6010
N/A	Assembly	TBA	56544/01	56545/01	56544/01	56545/01	56544/01	56545/01
1	Main Body	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2	2.5" I/C Body	1	56979/28	56979/23	56979/28	56979/23	56979/28	56979/23
3	Pivot Pin	1	56979/03	56979/03	56979/03	56979/03	56979/03	56979/03
4	'O' Ring	2	56979/02	56979/02	56979/02	56979/02	56979/02	56979/02
5	Circlip	2	56979/01	56979/01	56979/01	56979/01	56979/01	56979/01
6	Screw Down Handle	1	56979/22	56979/22	56979/22	56979/22	56979/22	56979/22
7	Domed Nut	1	56979/09	56979/09	56979/09	56979/09	56979/09	56979/09
8	Spring Washer	1	56979/08	56979/08	56979/08	56979/08	56979/08	56979/08
9	'O' Ring	1	56979/10	56979/10	56979/10	56979/10	56979/10	56979/10
10	Screw Down Spindle – See item 27 below	1	-	-	-	-	-	-
11	Roll pin – see item 28 below	-	-	-	-	-	-	-
12	Non Return Flap	1	56979/18	56979/19	56979/18	56979/19	56979/18	56979/19
13	Non Return Flap Washer	1	56979/07	56979/07	56979/07	56979/07	56979/07	56979/07
14	Retaining Washer	1	56979/06	56979/20	56979/06	56979/20	56979/06	56979/20
15	Washer Insert	2	56979/05	56979/05	56979/05	56979/05	56979/05	56979/05
16	Instantaneous Seal	1	FWP1003/A	FWP1003/A	FWP1003/A	FWP1003/A	FWP1003/A	FWP1003/A
17	Twist Release Knob	1	56979/26	56979/27	56979/26	56979/27	56979/26	56979/27
18	Release Spring	1	56979/14	56979/14	56979/14	56979/14	56979/14	56979/14
19	Release Plunger	1	56979/13	56979/21	56979/13	56979/21	56979/13	56979/21
20	Knob Closure bung, also see info. below	1	56979/31	56979/25	56979/31	56979/25	56979/31	56979/25
21	Nyloc Nut	1	56979/32	MS141/5	56979/32	MS141/5	56979/32	MS141/5
22	'O' Ring	1	56979/15	56979/15	56979/15	56979/15	56979/15	56979/15
23	C'sunk Screw	2	56979/04	56979/04	56979/04	56979/04	56979/04	56979/04
24	Plain Washer	1	MS125/9	MS125/9	MS125/9	MS125/9	MS125/9	MS125/9
25	Blank Cap	1	2415	2415	2415	2415	2415	2415
26	Chain	1	TH4749	TH4749	TH4749	TH4749	TH4749	TH4749

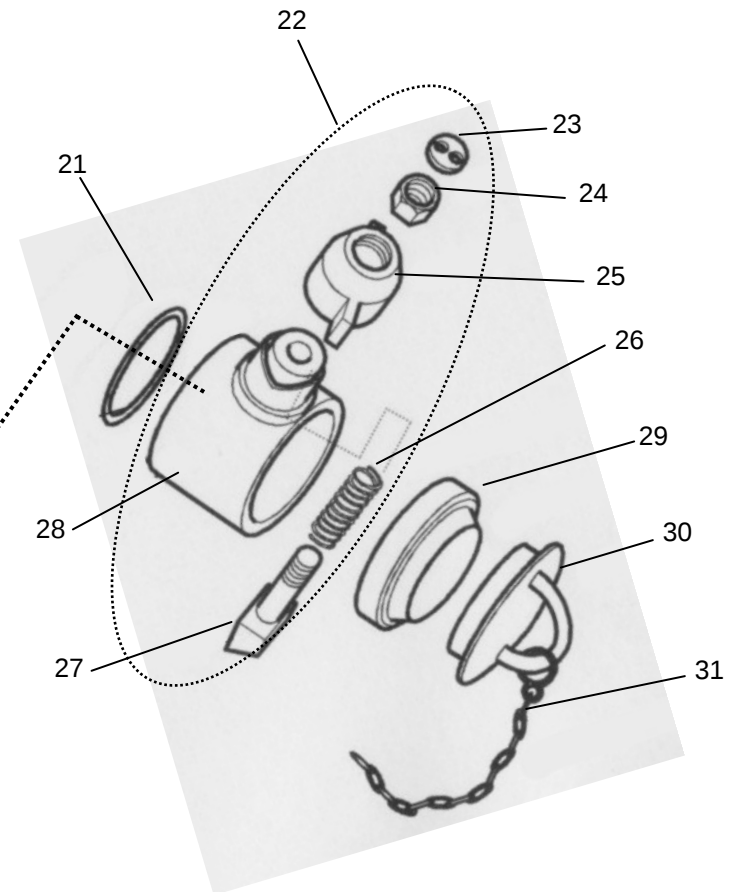
From 2005 - Modified Valve Spindle Arrangement, now use these parts, interchangeable with existing valves

27	Screw down spindle	1	56979/16	56979/17	56979/16	56979/17	56979/16	56979/17
28	Washer	1	56979/30	56979/30	56979/30	56979/30	56979/30	56979/30
29	Nyloc nut	1	56979/29	56979/29	56979/29	56979/29	56979/29	56979/29

For valves made before 2001 use this part

20	Knob Closure, metal disc	1	56979/24	56979/25	56979/24	56979/25	56979/24	56979/25
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Delivery Valve – Ball Type with Instantaneous connector



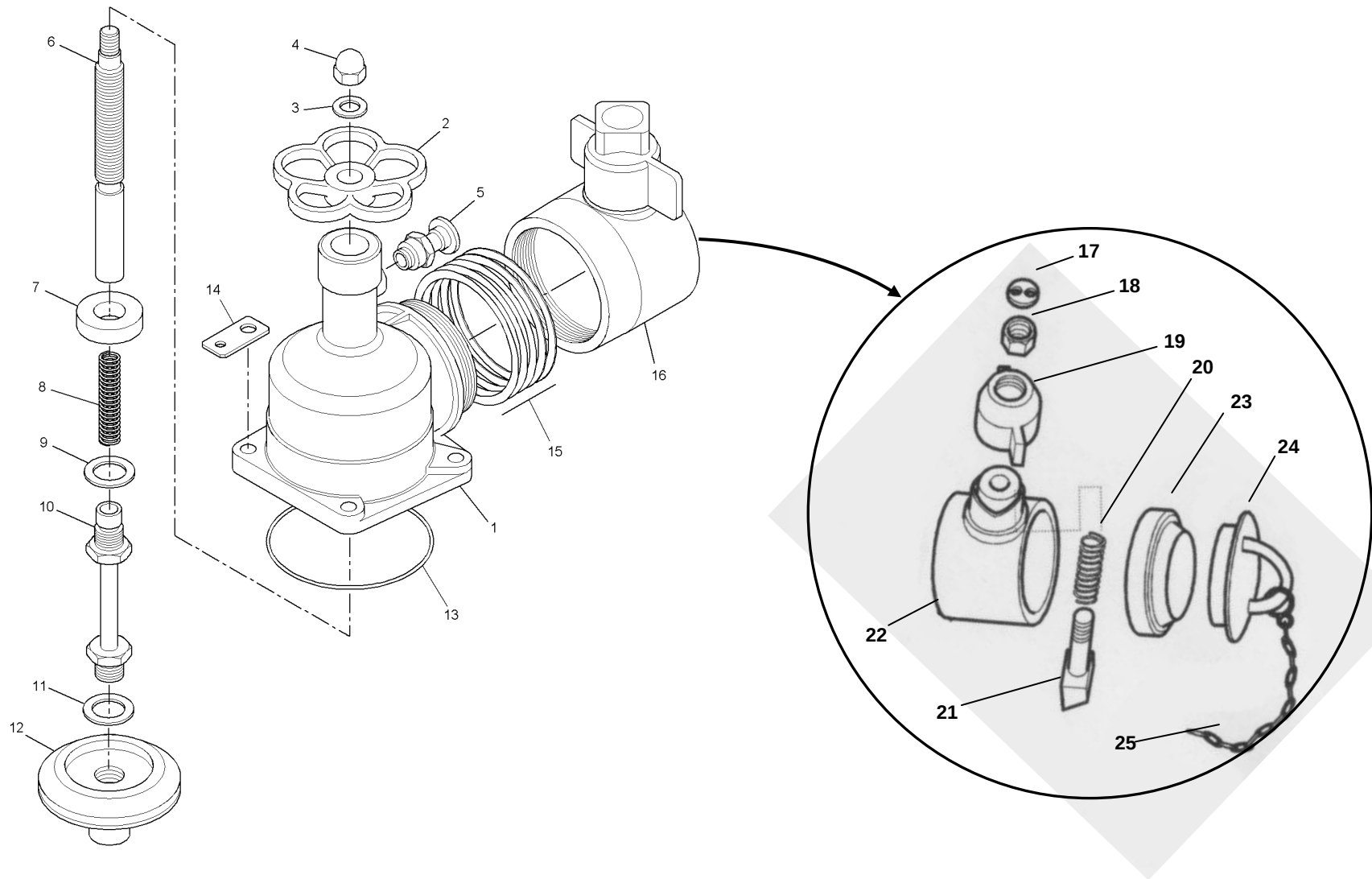
World Series – WT Multi-Pressure Pump

Delivery Valve – Ball Type with Instantaneous connector

Item Number	Description	No. per Valve	Light Alloy All models	Gunmetal All models
	Ball valve, LH, 2.5" instantaneous connector, complete valve		TH137	TH153/100
	Ball valve, RH, 2.5" instantaneous connector, complete valve		TH138	TH154/100
1	Body, delivery valve, LH	1	TH4200/A	TH4200/B
-	Body, delivery valve, RH	1	TH4201/A	TH4201/B
2	Nut, 5/16in UNF	1	S214/4	S214/4
3	Spring, ball valve Kit part 1	1	TH11205	TH11205
4	Pivot ball	1	TH11194	TH11194
5	Stud, 3/8in., valve cap to body	4	S165/8	S165/8
6	Valve cap	1	TH3331/1A	TH3331/1B
7	Washer 3/8in.	4	S21/5	S21/5
8	Spring washer 3/8in.	4	S20/5	S20/5
9	Nut 3/8in UNF	4	S214/5	S214/5
10	O ring, valve seating Kit part 1	1	THG3419	THG3419
11	Gasket, 0.010in. thick Kit part 1	1	TH11197	TH11197
12	Gasket, 0.003in. thick Kit part 1	1	TH11197/1	TH11197/1
13	Ball valve	1	TH2258	TH2255
14	Valve stem	1	THG3469/1	THG3469/1
15	O ring, valve stem Kit part 1	1	THG4086	THG4086
16	Handle boss, LH	1	TH5372/3A	TH5372/3B
-	Handle boss, RH	1	TH5372/1A	TH5372/1B
17	Handle	1	TH5370/2	TH5370/2
18	Knob, handle	1	TH1835/1A	TH1835/1A
19	Collar, valve to stem (pair of half collars) Kit part 1	1	TH11190	TH11190
20	O ring, body to delivery manifold Kit part 1	1	TH1511/A	TH1511/A
21	Shim pack	1	SATHM10722	SATHM10722
22	Instantaneous connector, complete assembly, includes items 22-29	1	56559	56559/01
23	Knob closure disc	1	56979/24	56979/25
24	Nyloc nut	1	56979/11	MS141/5
25	Twist release knob kit part 2	1	56979/26	56979/27
26	Release spring kit part 2	1	56979/14	56979/14
27	Release plunger	1	56979/13	56979/21
28	2.5in Instantaneous connector body	1	56979/28	56979/23
29	Seal kit part 2	1	FWP1003/A	FWP1003/A
30	Blank cap, rubber	1	2415	2415
31	Chain, 9in long	1	TH4749	TH4749
	Items 30, 31 supplied as Blank cap assembly	1	THL119/6	TH119/6
	Kit part 1 = Part also supplied in Seal kit for valve body	1	56940/05	56940/05
	Kit part 2 = Part also supplied in Seal kit for Instant. connector	1	56940/03	56940/03

World Series – WT Multi-Pressure Pump

Delivery Valve – Continental Type Instantaneous connector



AIA0009

Item Number	Description	No. per Valve	Light Alloy All models	Gunmetal All models
	Continental type valve, 2.5in instantaneous connector, complete valve		55662	55920
1	Valve body	1	56469/01	56469/14
2	Hand wheel	1	56469/11	56469/11
3	Washer M10	1	56469/12	56469/12
4	Nut, domed M10	1	56469/13	56469/13
5	Lock Kit part 1	1	56469/10	56469/10
6	Spindle	1	56469/02	56469/02
7	Spindle sleeve, c/w seals Kit part 1	1	56469/03	56469/16
8	Spring Kit part 1	1	56469/09	56469/09
9	Safety lock	1	56469/06	56469/06
10	Stem assembly	1	56469/05	56469/05
11	Safety lock Kit part 1	1	56469/08	56469/08
12	Plate Kit part 1	1	56469/07	56469/15
13	O ring Kit part 1	1	61142	61142
14	Anchor, blank cap chain Only fitted for Storz type connectors	1	GPR11759	GPR11759
15	Shim pack Kit part 2	1	SATHM10722	SATHM10722
16	Instantaneous connector, complete assembly	1	56559	56559/01
17	Knob closure disc	1	56979/24	56979/25
18	Nyloc nut	1	56979/11	MS141/5
19	Twist release knob	1	56979/26	56879/27
20	Release spring Kit part 2	1	56979/14	56979/14
21	Release plunger Kit part 2	1	56979/13	56979/21
22	2.5in Instantaneous connector body	1	56979/28	56979/23
23	Seal Kit part 2	1	FWP1003/A	FWP1003/A
24	Blank cap, rubber	1	2415	2415
25	Chain, 9in long	1	TH4749	TH4749
	Items 30, 31 supplied as Blank cap assembly	1	THL119/6	TH119/6
	Kit part 1 = Part also supplied in seal kit for valve body	1	56940/01	56940/02
	Kit part 2 = Part also supplied in seal kit for instant. connector	1	56940/03	56940/03

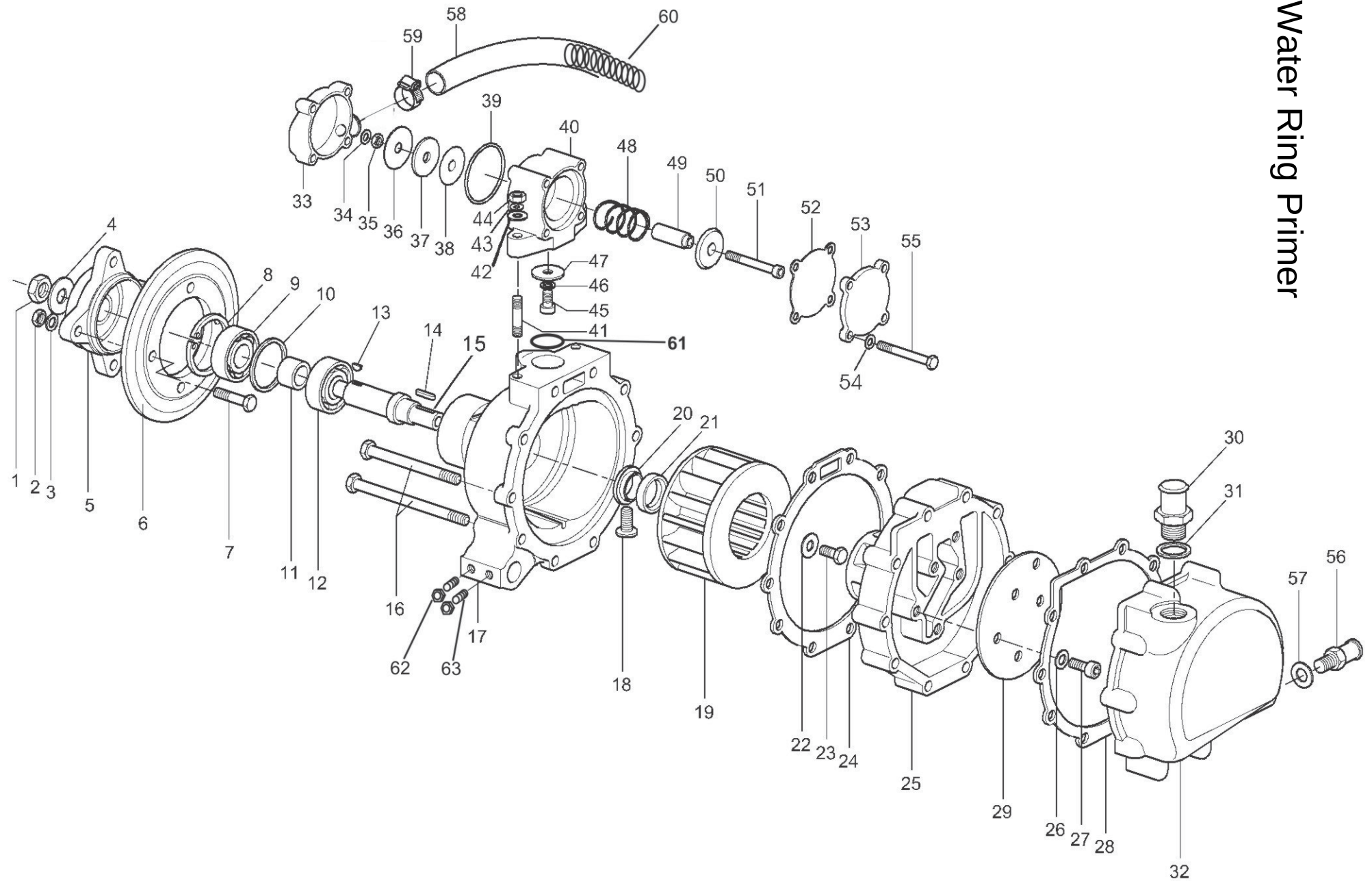
Delivery Valve – Dual Flow Type instantaneous connector



Item	Description	Part No. Alloy	Part No. Gunmetal	Qty
1	Valve body	THM10721/A	THM10721/B	1
2	Joint washer	TH2772	TH2772	1
3	Screws, countersunk	MS172/61	MS172/61	2
4	Plate	THM10580	THM10580	1
5	Sealing washer	THM10453	THM10453	1
6	Valve flap	THM10578	THM10578/B	1
7	Valve seat	THM10726/A	THM10726/B	1
8	Hinge pin	TH2748	TH2748	1
9	Dowty seal	UFP2303/11	UFP2303/11	1
10	Valve rod	THM10451/1	THM10451/1	1
11	Valve stem	FWP1000/1	THM10717/B	1
12	Bush	THM10718	THM10718	1
13	O ring	FWP8217	FWP8217	1
14	Lock nut, seal	THM10528/1	THM10528/1	1
15	Sealing washer	THM10597	THM10597	1
16	Grease nipple	THM10596	THM10596	1
17	Instruction plate	THM10600/A	THM10600/A	1
18	Handwheel	FWP2009	FWP2009	1
19	Instantaneous seal	FWP1003/A	FWP1003/A	1
20	Twist release knob	56979/26	56979/26	1
21	Closure disc	56979/24	56979/24	1
22	Nyloc nut	56979/11	56979/11	1
23	Release spring	56979/14	56979/14	1
24	Release plunger	56979/13	56979/13	1
25	Blank cap	2415	2415	1
26	2.5" Instantaneous connector body	56979/28	56979/28	1
27	Shim pack, contains items listed below -	SATHM10722	SATHM10722	1
-	Shim .002" thick polyester	THM10722	THM10722	1
-	Shim .005" thick polyester	THM10722/1	THM10722/1	1
-	Shim .010" thick polyester	THM10722/2	THM10722/2	1
-	Shim .030" thick polyester	THM10722/3	THM10722/3	1
-	Shim .060" thick polyester	THM10722/4	THM10722/4	1
28	Chain, blank cap to valve	TH4749	TH4749	1

World Series – WT Multi-Pressure Pump

Water Ring Primer



World Series – WT Multi-Pressure Pump

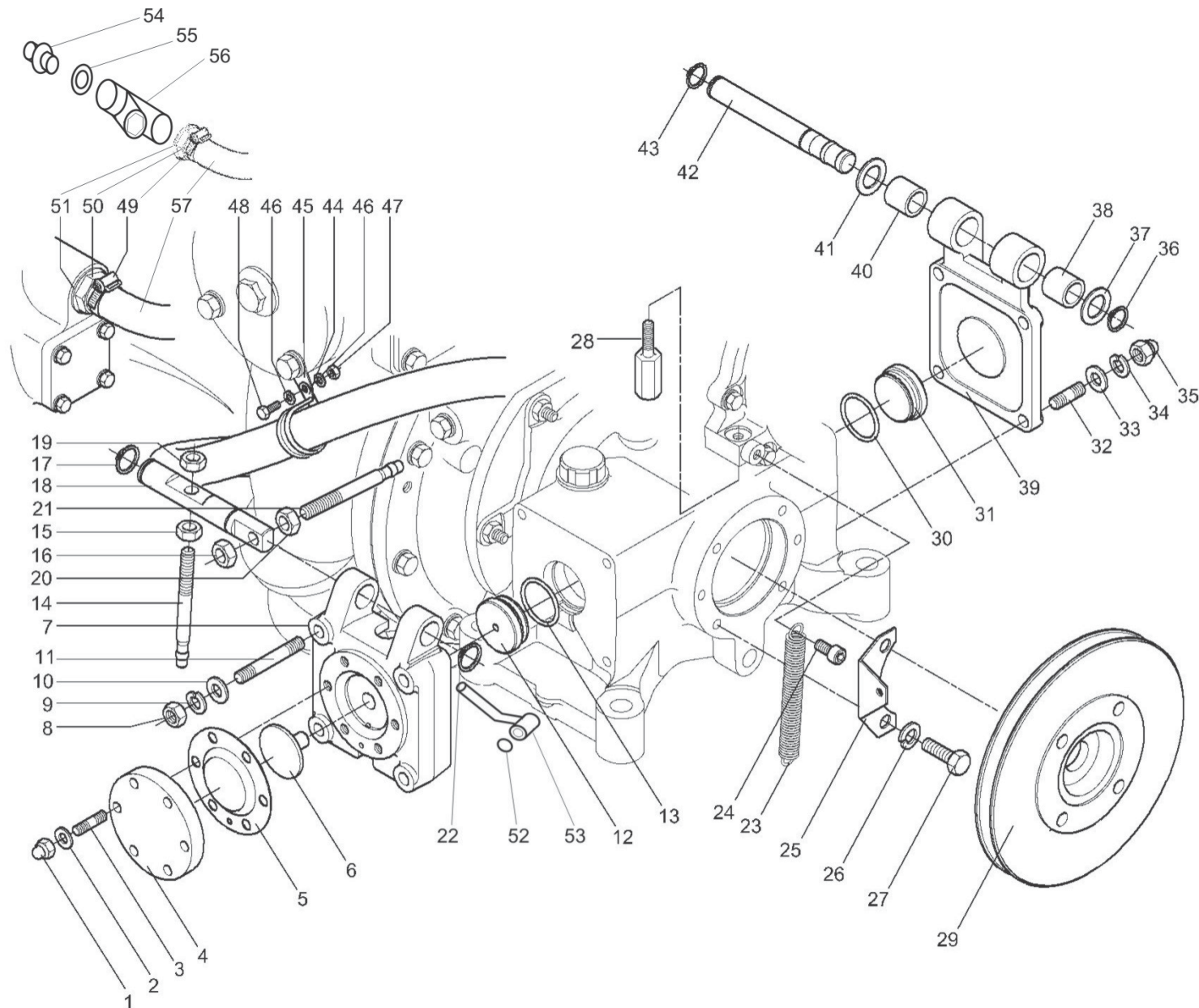
Water Ring Primer

Item No.	Description	No./ Unit	Light Alloy All Models	Gunmetal All Models
	Water Ring Primer, complete assembly		WRP7994/21	WRP7995/16
1	Special nut M10 x 1.5	1	WRP7939/1	WRP7939/1
2	Nut M6 x 1.0	4	MS35/7	MS35/7
3	Spring washer M6	4	MS29/5	MS29/5
4	Tab washer, primer	1	WRP7938/1	WRP7938/1
5	Pulley centre piece	1	WRP7937/1	WRP7937/1
6	Fibre wheel	1	UMP7915	UMP7915
7	Bolt M6 x 30, pulley to centre piece	4	MS16/30	MS16/30
8	Circlip	1	S79/28	S79/28
9	Ball bearing 20mm, large	1	WRP7987	WRP7987
10	Bearing locating ring	1	WRP7944	WRP7944
11	Bearing spacer	1	WRP7943	WRP7943
12	Ball bearing 20mm, small	1	WRP7986	WRP7986
13	Woodruff key, impeller shaft	1	WRP9707	WRP9707
14	Key	1	MS179/35	MS179/35
15	Primer shaft	1	WRP7940/1	WRP7940/1
16	Bolt	2	MS17/85	MS1785
	Bolt	1	MS17/80	MS17/80
	Bolt	6	MS17/60	MS17/60
	Bolt	1	MS17/90	MS17/90
17	Primer bearing housing	1	WRP7941/8	WRP7941/9
18	Lift-off pad	1	60094	60094
19	Impeller	1	WRP7931/2	WRP7931/3
20	Sealing backing washer	1	WRP7982	WRP7982
21	Seal	1	WRP7985	WRP7985
22	Washer	1	WRP7971	WRP7971
23	Self locking bolt	1	10021	10021
24	Gasket	1	WRP7954	WRP7954
25	Suction and delivery cover	1	WRP7952/2	WRP7952/2
26	Washer	5	MS125/7	MS125/7
27	M6 x 1.0 socket head cap screw	5	MS163/16	MS163/16
28	Gasket – primer	1	WRP7953	WRP7953
29	Cover plate	1	WRP7936	WRP7936
30	Water hose connection, 1 inch	1	WRP7977/3	WRP7977/2

Item No.	Description	No./ Unit	Light Alloy All Models	Gunmetal All Models
31	5/8 inch BSP Sealing Washer	1	UFP2303/9	UFP2303/9
32	Water trap housing	1	WRP7934/8	WRP7934/9
33	Priming valve inlet, L.H.	1	57229/01	57229/101
34	Washer, M6	1	MS125/7	MS125/7
35	Nut, M6	1	MS141/4	MS141/4
36	Washer, seal support	1	55670	55670
37	Seal	1	55669	55669
38	Washer, seal retaining	1	55668	55668
39	O ring	1	60406	60406
40	Priming valve body	1	60097	60097/100
41	Stud, M8	2	MS48/30	MS48/30
42	Washer, M8	2	MS25/9	MS25/9
43	Spring washer, M6	2	MS29/6	MS29/6
44	Nut, M8	2	MS35/8	MS35/8
45	Screw, M5	1	MS103/12	MS103/12
46	Washer, M5	1	MS125/6	MS125/6
47	Diaphragm	1	53173	53173
48	Spring, priming valve	1	57555	57555
49	Spacer, priming valve	1	55665	55665
50	Thrust pad, priming valve	1	55666	55666
51	Screw, M6	1	MS163/50	MS163/50
52	Diaphragm	1	56123	56123
53	Cover, priming valve	1	56120	56120
54	Washer, M6	4	MS25/7	MS25/7
55	Bolt, M6	4	MS16/60	MS16/60
56	Connector	1	WRP7945	WRP7945/1
57	Sealing washer	2	UFP2303/5	UFP2303/5
58	Hose – suction to primer	1	54737/06	54737/06
59	Hose clip, priming valve end	1	MS82/3	MS82/3
60	Spring, hose support	3	57149/02	57149/02
61	O ring	1	50887	50887
62	Nut, M8	2	MS35/8	MS35/8
63	Set screw, M8	2	MS57/8/25	MS57/8/25

World Series – WT Multi-Pressure Pump

Water Ring Primer – Lift-off Section

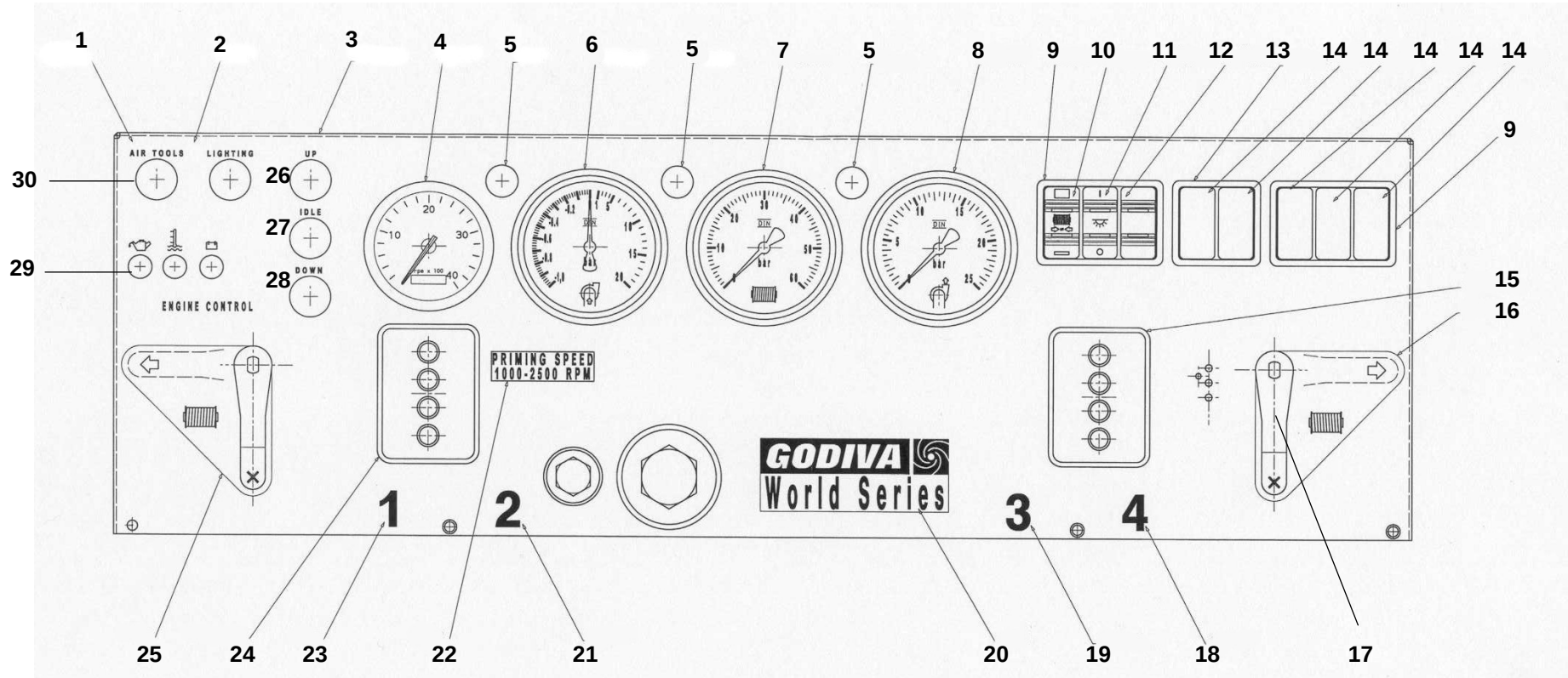


Water Ring Primer – Lift-off Section

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World Series – WT Multi-Pressure Pump

Instrument Panel – for pump WTA3010/345



World Series – WT Multi-Pressure Pump

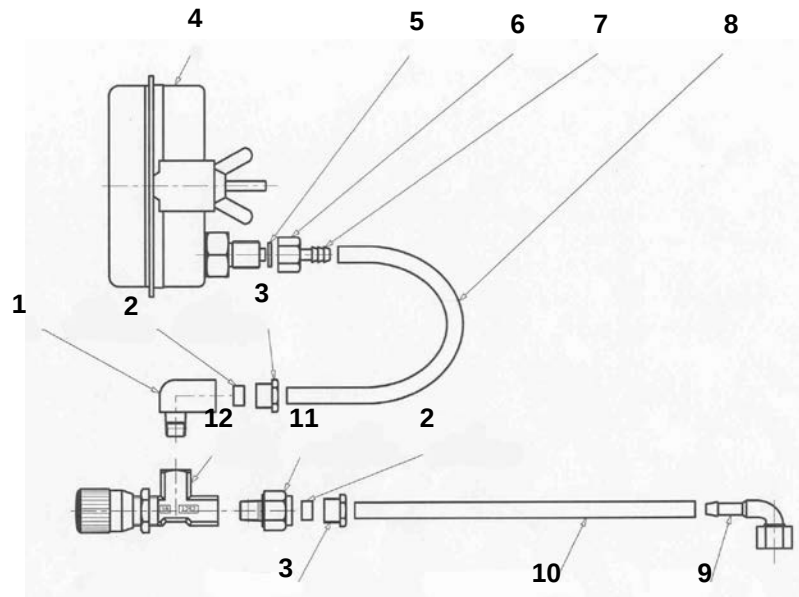
Instrument Panel – for pump WTA3010/345

Item Number	Description	No./ Unit	WTA3010/345 Part Number
1	Label, engine control box	1	60693/04
2	Engine control box, rear of panel	1	For location only
3	Instrument Panel	1	60630/03
-	Button head screw, panel to frame	7	56192
4	Tachometer / hours counter	1	60305
-	Harness – Tachometer / hours counter	1	60783
5	Pressure gauge isolating valve	3	60704
6	Compound gauge, -1 to 25 Bar	1	50226/09
7	Pressure gauge 0-60 Bar	1	50227/20
8	Pressure gauge 0-25 Bar	1	50227/21
9	Switch mount 3-way	2	60534
10	Switch - crossover valve	1	60533/01
11	Switch - pump bay lights	1	60533/04
12	Switch blank	1	60533/14
13	Switch mount 1-way end	2	60534/02
14	Switch mount blanking plug	5	60536
15	Water level display	1	C1-ITL12099
16	Label, high pressure, right hand	1	60690/01
17	Handle, high pressure stage on/off	2	60039/08
-	Screw, for item 17	2	56192/03
-	Washer, for item 17	2	MS25/7
18	Label – valve number 4	1	60803/03
19	Label – valve number 3	1	60803/02
20	Label, “Godiva World Series”	1	60623
21	Label – valve number 2	1	60803/01
22	Label, priming speed	1	60582
23	Label – valve number 1	1	60803
24	Foam level display	1	C1-ITL12111
25	Label, high pressure, left hand	1	60690
26	“Throttle Up” – complete switch	1	61041
27	“Idle” – complete switch	1	61042
28	“Throttle Down” – complete switch	1	61041
29	Indicator red - oil press, water temp, battery low charge	3	60695
30	LED Indicator green, air tools, lighting	2	60802
-	Female connector, for items 28, 29	10	55626
-	Multi-pin receptacle, inside panel box	1	60763
-	Male pins for receptacle, p/n 60763	17	60765/01
-	Sealing plug for receptacle, p/n 60763	12	60767
-	Multi-pin plug, to connect with receptacle 60763	1	60764
-	Female pins for plug 60764	17	60765
-	Grommet sleeve, for tachometer cable	1	60758
-	Nylon ties, for grouping wires together	10	9993
-	Contact removal tool	1	60768
-	Rubber strip, to seal control box lid	1	52491
-	Closing plate, for control box	1	60726
-	Screw, for control box lid	12	MS03/16
-	Washer M5, for control box lid	12	MS25/6

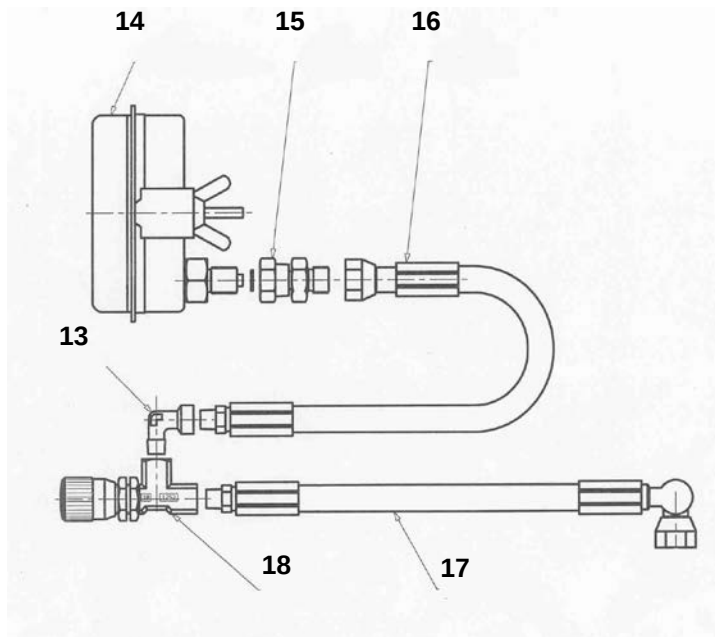
World Series – WT Multi-Pressure Pump

Instrument Panel – for pump WTA3010/345

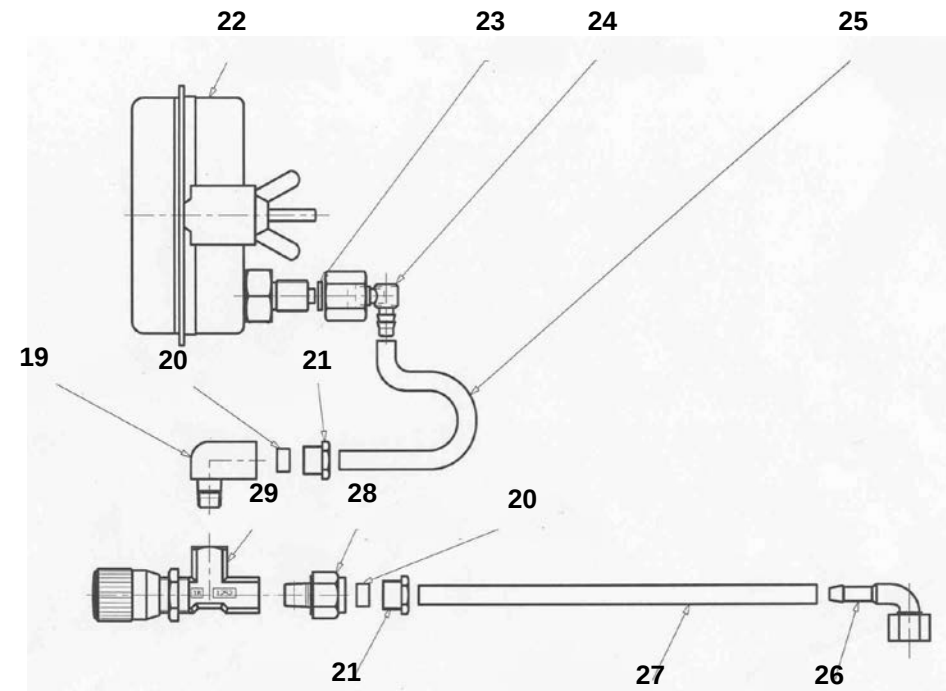
Compound Pressure



High Pressure Gauge



Low Pressure Gauge



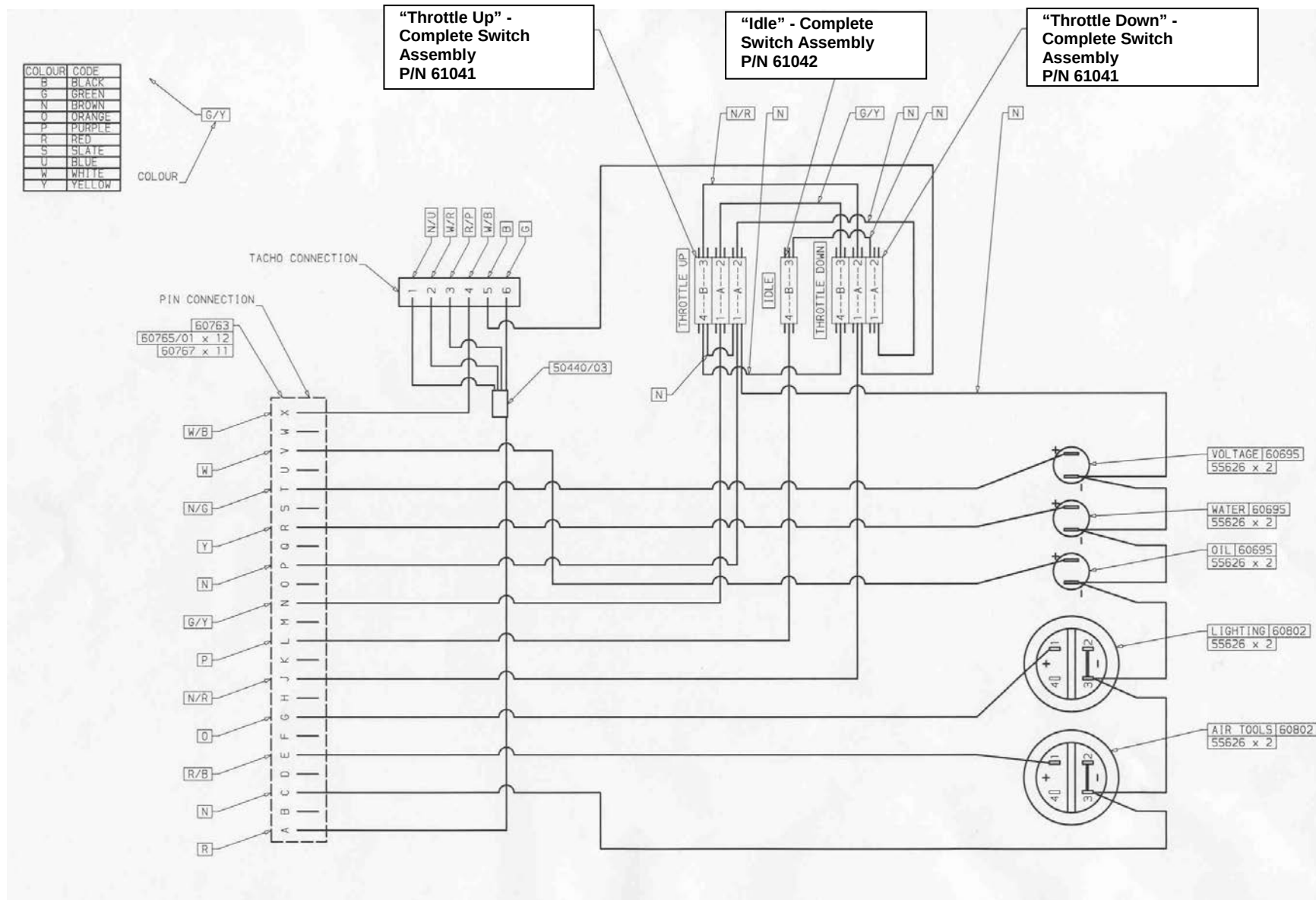
World Series – WT Multi-Pressure Pump

Instrument Panel – for pump WTA3010/345

Item Number	Description	No./ Unit	WTA3010/345 Part Number
	Compound pressure Gauge		
1	Male elbow adaptor 1/8BSPT-80	1	56172/02
2	Tubing sleeve M8	2	GPN12354
3	Tubing nut M8	2	GPN12353
4	Compound gauge, -1 to 25 Bar	1	50226/09
5	Washer	1	50470
6	Nut – Gauge connector	1	52525
7	Nipple – Gauge connector	1	52525/01
8	Nylon tubing	1	7763/35
9	Elbow 90 degree 1/4 inch BSP	1	7762
10	Nylon tubing	1	7763/105
11	Straight male adaptor	1	55348/04
12	Pressure gauge isolating valve	1	60704
	High Pressure Gauge		
13	Elbow 1/8 inch BSPT(M) to 1/8 inch BSPCF	1	60752
14	Pressure gauge 0-60 Bar	1	50227/20
15	Gauge connection to ¼ inch BSP	1	60766
16	Gauge hose, high pressure	1	60753
17	Gauge hose, high pressure	1	60753/01
18	Pressure gauge isolating valve	1	60704
	Low pressure Gauge		
19	Male elbow adaptor 1/8BSPT-80	1	56172/02
20	Tubing sleeve M8	2	GPN12354
21	Tubing nut M8	2	GPN12353
22	Pressure gauge 0-25 Bar	1	50227/21
23	Washer	1	50470
24	Gauge connection - special	1	52804/01
25	Nylon tubing	1	7763/35
26	Elbow 90 degree 1/4 inch BSP	1	7762
27	Nylon tubing	1	7763/105
28	Straight male adaptor	1	55348/04
29	Pressure gauge isolating valve	1	60704

World Series – WT Multi-Pressure Pump

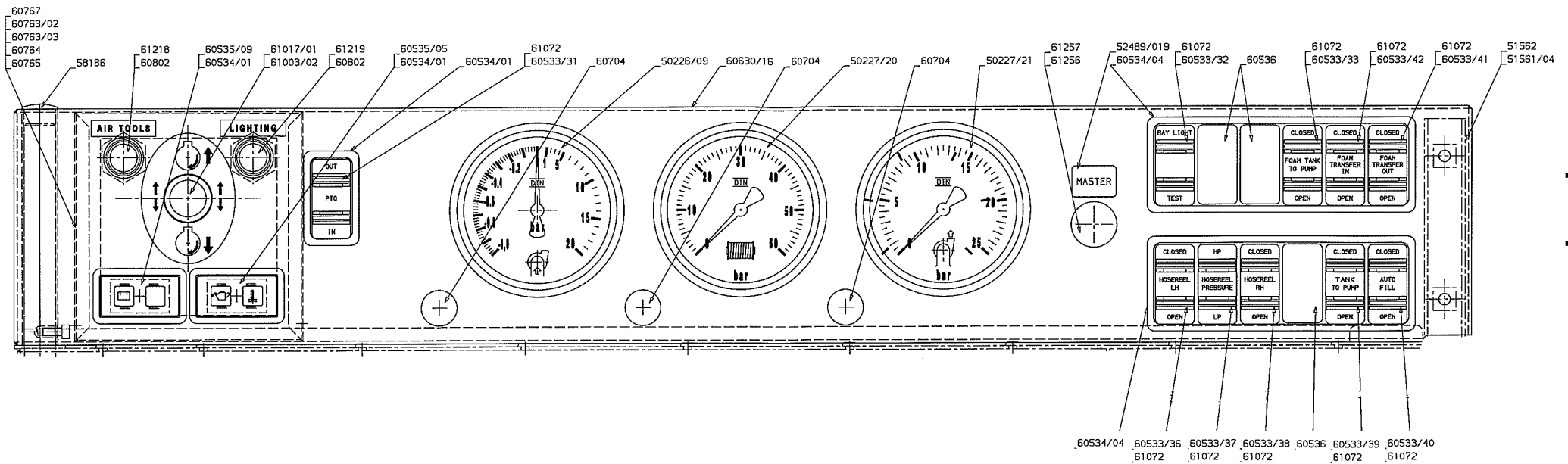
Instrument Panel Wiring Diagram (p/n 60805)



Instrument Panel – for pump WTA3010/345

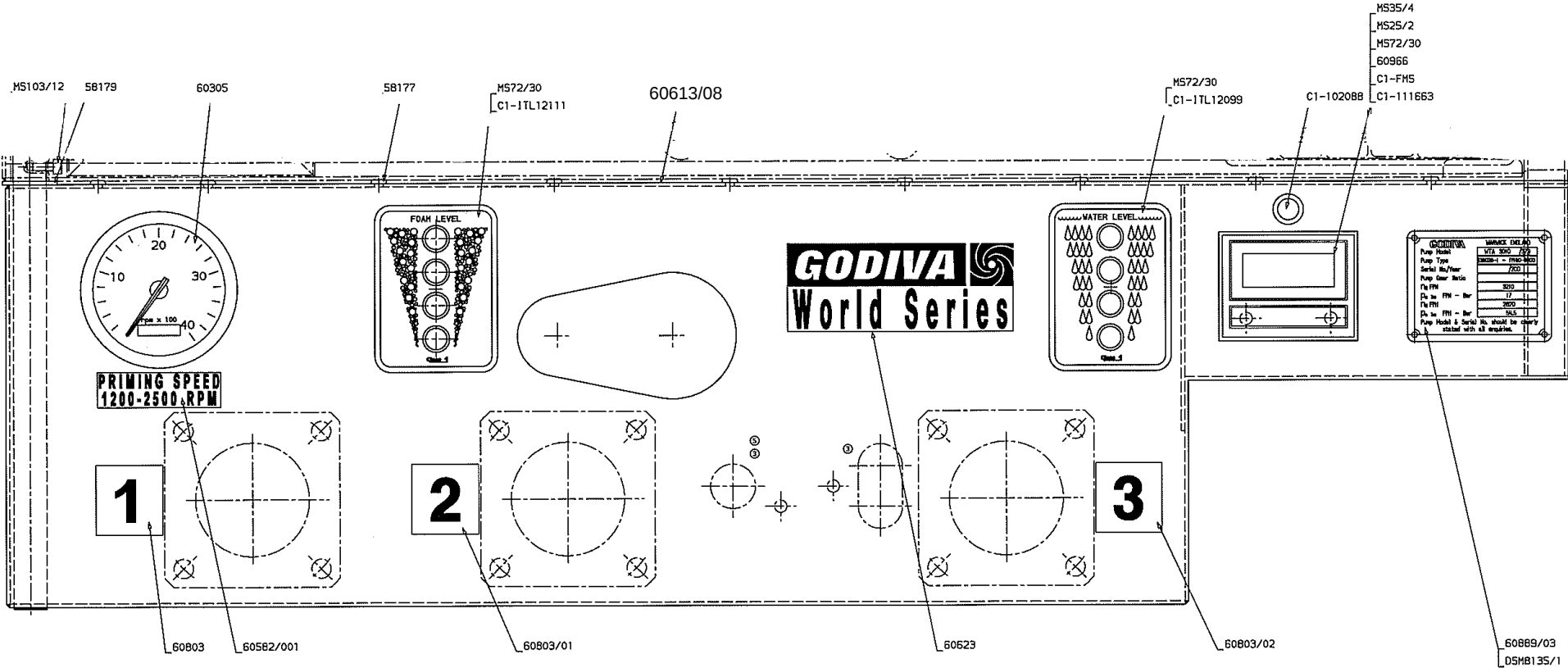
World Series – WT Multi-Pressure Pump

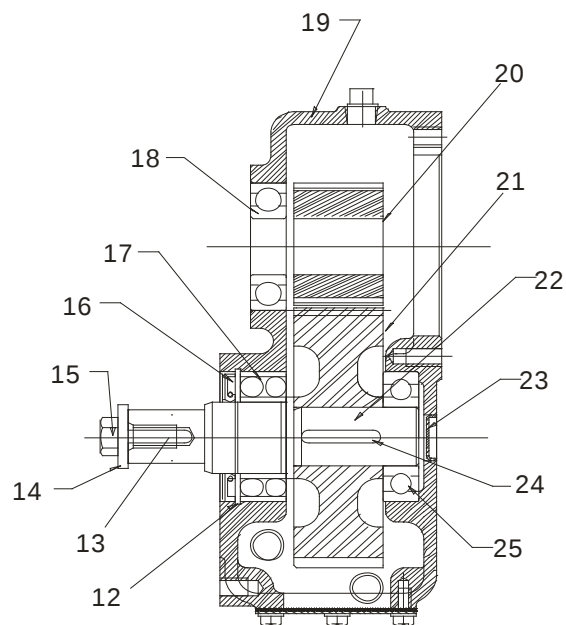
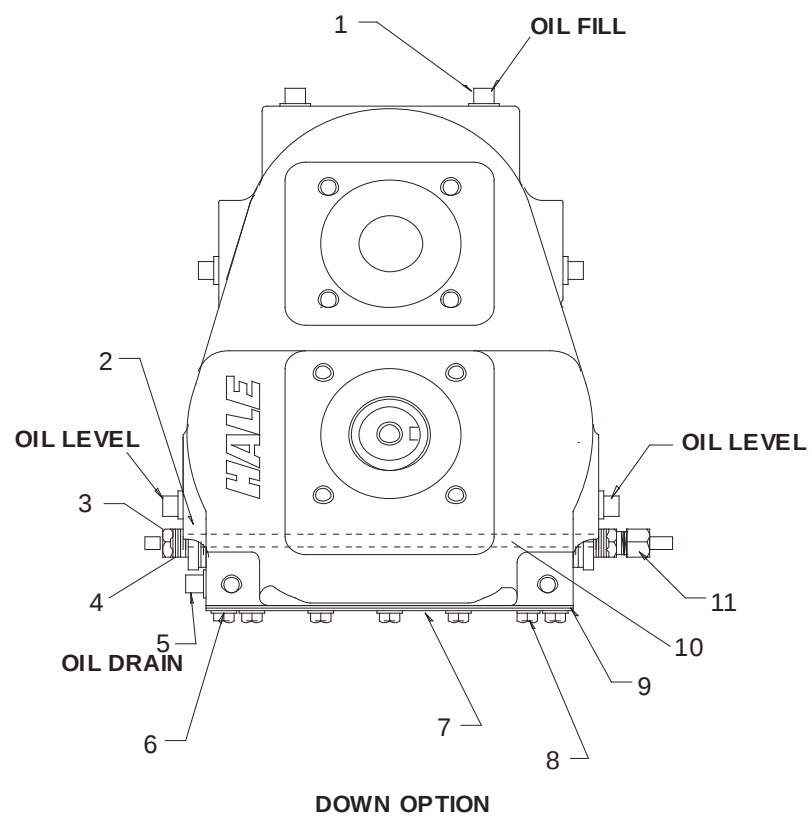
Instrument Panel – for pump WTA3010/379



World Series – WT Multi-Pressure Pump

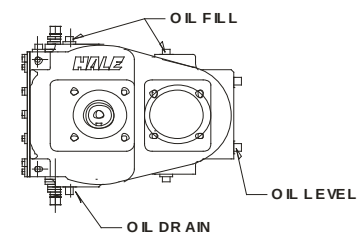
Panel Mounting Group – for pump WTA3010/379



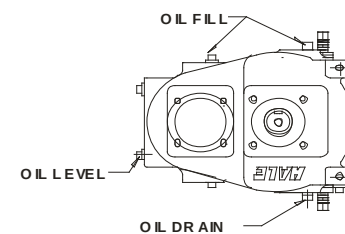


THE GEARBOX MAY BE MOUNTED
IN THE THREE POSITIONS SHOWN
IN THIS DRAWING

LEFT OPTION



RIGHT OPTION



World Series

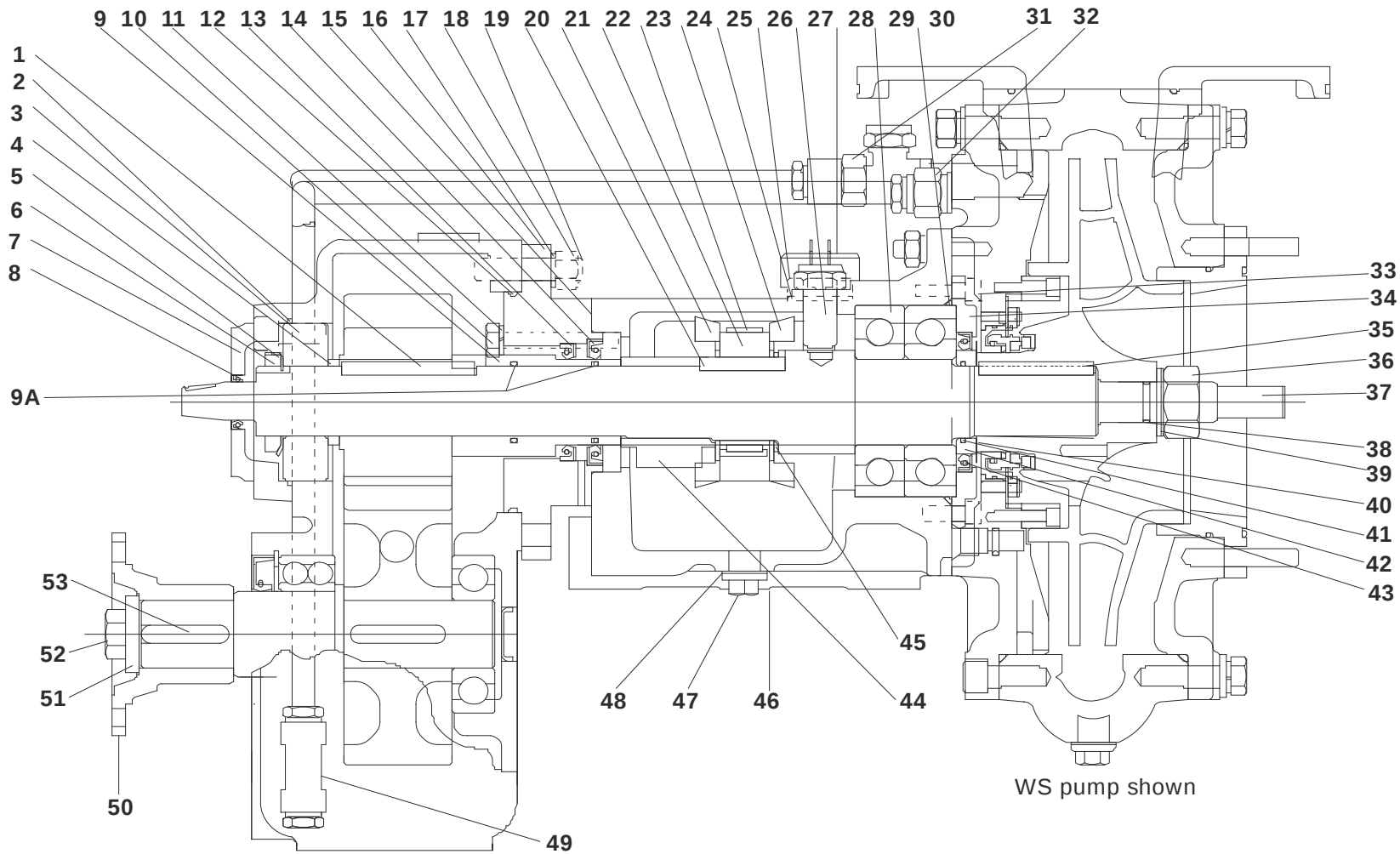
Gearbox
for WT and WS models

Item Number	Description	No./ Unit	All models
1	Plug, ½ inch NPT	5	217-0401-00-0
2	Bushing	2	082-0614-00-0
3	Seal plug	1	60644
4	O ring	1	UFP2290
5	Magnetic plug, ½ inch, oil drain	1	217-0401-08-0
6	Washer, 5/16inch	12	097-0810-01-0
7	Cover	1	044-0840-00-0
8	Hex. Head screw, 5/16-18 x ½ inch	12	018-1404-02-0
9	Gasket	1	046-5270-01-0
10	Cooling pipe	1	60474/01
11	Compression tube fitting, 1/2inch	1	082-0453-00-0
12	Retaining ring	1	077-3540-00-0
13	Key	1	017-0300-02-0
14	Washer	1	097-0890-03-0
15	Hex. Head screw, 5/8-18 x 1¼	1	018-2412-07-0
16	Oil seal	1	296-2810-00-0
17	Bearing 5210W	1	250-5210-20-0
18	Bearing 308J	1	250-0308-32-0
19	Gearbox	1	004-0581-00-0
20	Pinion gear - see table on right -	1	-
21	Drive gear - see table on right -	1	-
22	Drive shaft	1	037-2221-00-0
23	Knock out plug	1	217-3360-00-0
24	Key	1	017-0300-00-0
25	Bearing 308J	1	250-0308-32-0

Available drive gear and pinion gear combinations			
Item 16. Pinion Gear	Item 17. Drive Gear	Ratio	Drive unit assembly
031-1520-00-0 (45T)	031-1510-00-0 (56T)	1.24	504-0640-12-0
031-5160-00-0 (42T)	031-1500-00-0 (59T)	1.40	509-0640-14-0
031-5180-00-0 (39T)	031-1490-00-0 (62T)	1.59	504-0640-16-0
031-5200-00-0 (36T)	031-1480-00-0 (65T)	1.80	504-0640-18-0
031-1440-00-0 (34T)	031-1470-00-0 (67T)	1.97	504-0640-20-0
031-5220-00-0 (32T)	031-1610-00-0 (69T)	2.16	504-0640-22-0
031-5240-00-0 (30T)	031-1460-00-0 (71T)	2.37	504-0640-24-0

World series

Bearing Housing Group for WTWS models with Gearbox



World Series

Bearing Housing Group for WT/WS Models with Gearbox

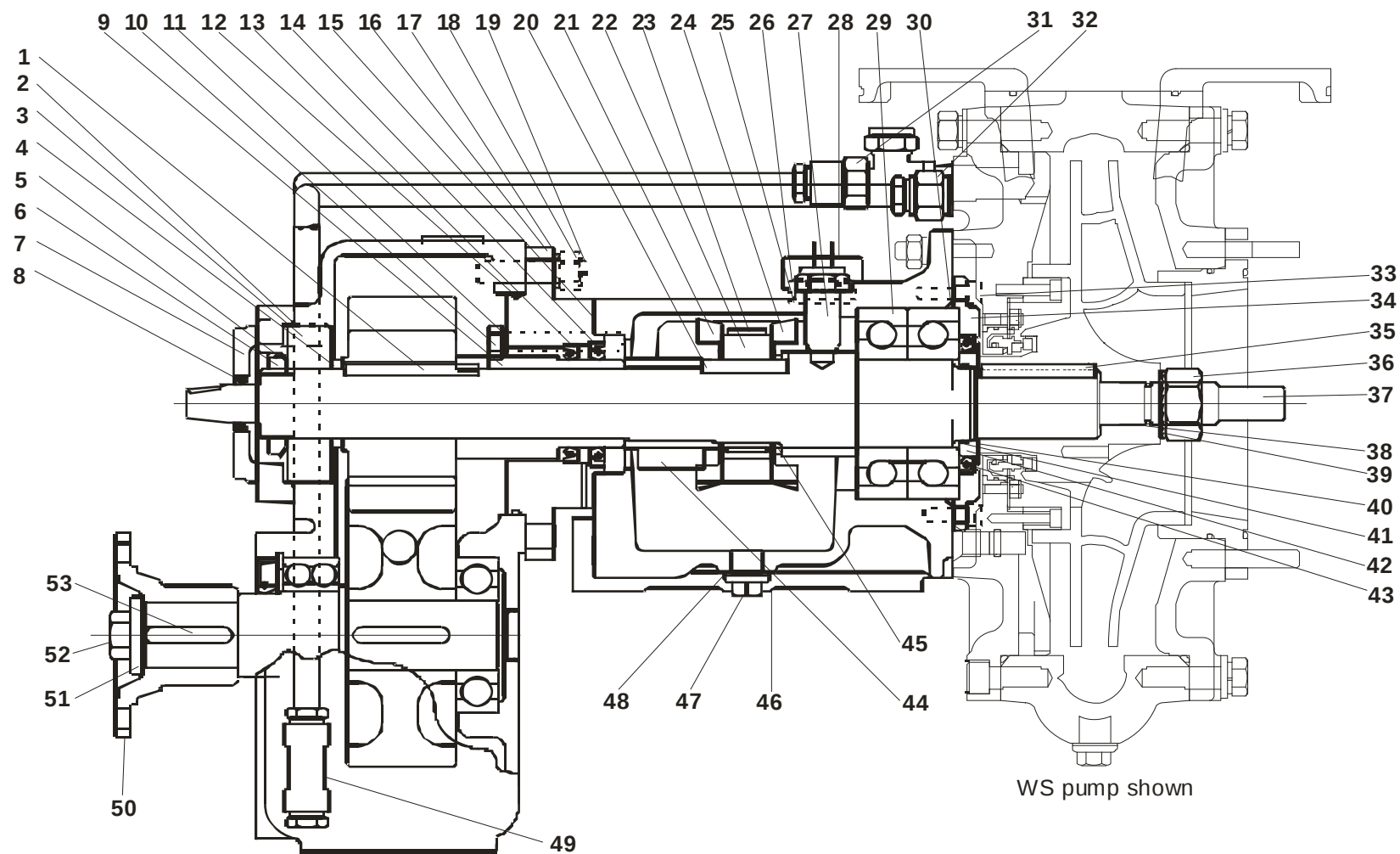
Item Number	Description	No./ Unit	All models
1	Key	1	61344
2	O ring	1	60357
3	Screw	4	S227/H8
4	Spacer	1	60356
5	Locking washer	1	60048
6	Lock nut	1	60049
7	Cover, end shaft	1	60352
8	Oil seal	1	60332
9	Spacer	1	60354/001
9A	O ring	2	UMP9816
10	Bolt	4	MS18/60
11	Spring washer	4	MS29/7
12	O ring	1	54052
13	Oil seal	1	50682/06
14	Oil seal	1	50682/02
15	Gasket	1	60182
16	Adaptor ring	1	60353
17	Spring washer	6	S20/7
18	Nut	6	S263/7
19	Stud	6	S167/10
20	Key	1	MS80/16
21	Bearing location plate	1	60003/01
22	Eccentric	1	60004
23	Bearing needle	1	60005
24	Bearing location plate	1	60003/01
25	Washer	1	UFP2302/10
26	Plug	1	S64/6
27	Tachometer sender unit	1	60015
28	Oil filler / level unit	1	60016
29	Bearing, angular contact	2	60002
30	O ring	1	55831
31	Flexible cooling hose (gearbox, left, right and down position)	1	60538/01
31	Elbow connector	1	60481
31	Olive	1	DFP7593/7
31	Tubing nut	1	DFP7594/7
31	Straight adaptor	1	53492/02
31	Restrictor	1	60529
32	Flexible cooling hose (gearbox, down position)	2	60538/05
32	Olive	1	DFP7593/7
32	Tubing nut	1	DFP7594/7

Notes

Fitted inside item 9, spacer 60354/001

From 5/11/01, use 60182/01

For Gearbox in Left and Right position use Hose 60538/03



World Series

Bearing Housing Group for WT/WS models with Gearbox

Item Number	Description	No./ Unit	All models
32	Sealing washer	1	UFP2303/7
32	Straight male adaptor	1	60484
33	Screw, socket head	6	MS164/20
34	Seal housing	1	60011
35	Key	1	MS180/31
36	Nut	1	60210
37	Pump shaft, gearbox – WT Models	1	60001/02
-	Pump shaft, gearbox – WS models	1	60001/03
38	O ring	1	57044
39	Lock washer pair	1	60072/06
40	Flinger	1	60014
41	O ring	1	51355
42	Seal wear ring	1	60141
43	Oil seal	1	60012
44	Balance weight	1	60006
45	Spacer washer	1	60010
46	Bearing housing	1	60000/01
47	Plug	1	S64/3
48	Washer	1	UFP2303/7
49	Tee connector	1	53882/01
49	Tubing plug	1	60482
49	Olive	1	DFP7593/7
49	Tubing nut	1	DFP7594/7
50	Drive flange	1	See options
51	Washer	1	097-0890-03-0
52	Hex. Head screw, 5/8-18 x 11/4	1	018-2412-07-0
53	Key	1	017-0300-02-0
Not drawn	Studs, to secure piston primer to Brg Housing	8	56944
Not drawn	Feed tube R.H., to piston primer	1	60053
Not drawn	Feed tube L.H., to piston primer	1	60053/01
Not drawn	O ring, feed tube, piston primer end	2	53384
Not drawn	O ring, feed tube, pump head end	2	FWP8217

Notes

From 5/11/01, use 60011/01

From 5/11/01, use 60000/03

Drive Flange Options

a	Drive Flange SAE 1410	1	60438
b	Drive Flange SAE 1510	1	60438/01
c	Drive Flange DIN 100	1	60438/02
d	Drive Flange DIN 120/8	1	60438/03
e	Drive Flange DIN 120/6	1	60438/04