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May 6, 2013

Technical Newsletter

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www.grindex.com

Subject:

New range of products Minex, Minette, Minor, Major, Master, Matador, Salvador, Senior, Sandy

Dear Distributor,

Grindex is pleased to announce the introduction of the new and improved versions of Grindex professional submersible drainage and sludge pumps. With the new versions several new components will be introduced. The most important to mention is the new improved seal system. However, many mechanical parts, mechanical seal units and wear parts on the Minor, Major, Master, Matador, Senior and Sandy will to a large extent be compatible between new and old versions. For more detailed information, see section “Interchangeability”.

Pumps concerned

Old versions	New Versions
Minex – 8101.171	Minex – 8101.160 (=1~)/.172 (=Lite, 3~)
Minette – 8102.171	Minette – 8102.172
Minor – 8103.180	Minor – 8103.181
Major – 8104.180	Major – 8104.181
Master – 8105.181	Master – 8105.182
Matador – 8106.180	Matador – 8106.181
Salvador – 8109.281	Salvador – 8109.282
Senior – 8110.280	Senior – 8110.281
Sandy – 8111.280	Sandy – 8111.281

Time for change

From production cycle 4 year 2013 (date 2013-05-17) pumps are produced according the new version.

Identification

All pumps will have a new version number, visible in the product number, for example old Major 8104.180 will now be Major 8104.181.

Pumps with new versions will have serial number higher than 1340001, and pumps with lower serial number have the old design.

Serial number explanation:

13 = Year of manufacturing (2013)

4 = Production cycle (8 cycles in one year)

0001 = running number on pump produced in that cycle.

When communicating a pump identity, it is necessary to state **both product- and serial number**.

Reason for change

Grindex is perceived as a premium and high quality product brand. This product release is a natural step in our strategy to maintain and strengthen this position

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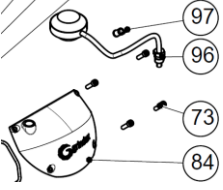





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Improvements on Minex, Minette, Minor, Major, Master, Matador, Salvador, Senior & Sandy

<p>New main cover, cover & handle on Minex, Minette, Minor, Major, Salvador, Senior, Sandy</p> <ul style="list-style-type: none">• Ergonomic handle (with lifting eye for Minor, Major, Senior, Sandy)• Bigger inspection cover for easier service Improved sealing surfaces (intermediate piece removed)• New discharge connections Minor & Major• Master no external parts changed• Matador changed Main cover	
<p>New air valve on Minette, Minor, Major, Salvador, Senior, Sandy</p> <ul style="list-style-type: none">• Bigger air valve for improved dry running capability• New Minex has two air valves (old had one)	
<p>Level regulators available up to Matador</p> <ul style="list-style-type: none">• Built in level regulators are available on all models up to Matador. Simply change cover and add level regulator kit.	
<p>Improved QH-performance on Minex, Minette Improved adjustment screw on Minex, Minette & Salvador – Minimizes risk of faulty impeller adjustments</p>	
<p>New mechanical seal unit on Minex, Minette & Salvador (17 mm)</p> <ul style="list-style-type: none">• Aluminum seal house and stainless steel bottom improves the heat transfer and the durability of the seal	
<p>New mechanical seal unit on Minor-Matador & Senior-Sandy (20, 25, 35 mm)</p> <ul style="list-style-type: none">• Aluminum seal house and stainless steel bottom improves the heat transfer and the durability of the seal• Improved mobility between stationary outer seal ring and seal house & dirt protection	

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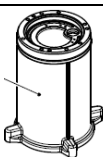
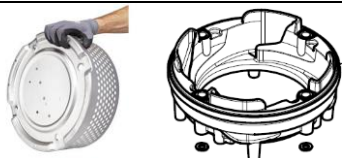
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<p>New stator versions Minex - Major, Salvador, Sandy</p> <ul style="list-style-type: none"> Stator 400V50Hz, 500V50Hz, 575V60Hz are supplied with 3-lead stators (earlier had 6-leads) and are connected in star-connection 	
<p>New material in Matador stator housing</p> <ul style="list-style-type: none"> Aluminum stator housing replaces cast iron for improved serviceability & heat transfer 	
<p>New updated strainers Minex – Major & option polyurethane diffusers</p> <ul style="list-style-type: none"> More stable strainer to handle with better grip Minor-Matador offer Polyurethane option 	

Interchangeability on Minex, Minette, Salvador (8101, 8102, 8109)

Description	Old version p/n	New version p/n	Fully replaceable
Handle, Minex	50 833 00	51 690 00	No
Handle, Minette, Salvador	50 873 00 x 2	51 691 00 x 1	No
Main Cover, Minex	51 153 01	Main Cover + Air Valve=	No
Air valve	50 836 00	51 782 00	
Air valve, Minex	50 836 00 x 1	51 780 00 x2	Yes
Main Cover, Minette, Salvador	51 167 01	Main Cover + Air Valve=	No
Air valve	50 836 00 x 1	51 783 00	
Air valve, Minette, Salvador	50 836 00 x 1	50 869 00 x 1	No
Main Cover for level reg. Minex	51 153 00	Not applicable	No
Main Cover for level reg. Minette, Salvador	51 167 00	Not applicable	No
Cover (Inspection), Minex	50 832 00	51 686 00	No
Cover for level reg. Minex	Not applicable	51 686 01	No
Cover (Inspection), Minette, Salvador	50 871 00	51 687 00	No
Cover for level reg. Minette, Salvador	Not applicable	51 687 01	No
Level regulator kit			
(Max 400V CE)	51 155 00	51 726 04	No
(Max 250V or 24V CE)	51 155 01	51 726 03	No
(Max 250V or 24V CSA)	51 155 02	51 726 05	No
Supervision relay isolated input	Not available	51 779 00	New
Discharge connections	Remains the same	Remains the same	Yes
Cover for discharge outlet (sludge)	Remains the same	Remains the same	Yes

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Adapter (Intermediate piece upper):			
Minex	51 150 00	Removed	No
Minette, Salvador	51 151 00	Removed	No
Entrance flange, seal sleeves, cable clips, washers	Remains the same	Remains the same	Yes
Terminal Plate Unit	51 641 00 (1~, 3~)	51 711 01 (1~) 51 711 00 (3~)	No No
Starter units (Contactor + Smart)			
Minex, Minette, Salvador (for parts included in old units)	50 891 XX (see TNL 40)	51 712 XX (see parts list)	No
Stators Minex			
400V50Y	50 933 00 (6-lead)	50 933 08 (3-lead)	Yes
500V50Y, 575V60Y	50 933 01 (6-lead)	50 933 09 (3-lead)	Yes
Stators Minette, Salvador			
400V50Y,	50 912 00 (6-lead)	50 912 18 (3-lead)	Yes
500V50Y (old) 575V60Y (new)	50 912 01 (6-lead)	50 912 17 (3-lead)	Yes
Other voltages/configurations	Remains the same	Remains the same	Yes
Stator housing			
Minex 1~	51 147 02	51 681 02	No
Minex Lite, 3~	51 152 00	51 682 00	No
Minette, Salvador	51 147 00	51 681 00	No
Shaft unit			
Minex 1~,	50 914 02	51 724 00	No
Minex Lite, 3~	50 914 04	51 724 01	No
Minette, Salvador	50 914 02	51 724 02	No
Outer casing			
Minex 1~	50 834 00	51 719 00	No
Minex Lite, 3~	51 154 00	51 719 01	No
Minette, Salvador	50 874 00	51 720 00	No
Intermediate piece			
Minex	50 989 00	51 707 00	No
Minette, Salvador	50 990 00	51 708 00	No
Mechanical seal unit			
Minex, Minette, Salvador	50 901 23	51 728 50	No
Seal housing cover			
Minex	50 928 00	51 705 00	No
Minette	50 921 00	51 706 00	No
Salvador	51 146 00	51 710 00	No

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Adjustment sleeve	50 930 00	Sleeve unit =	
Adjust screw	50 931 00	51 721 00	No
Impeller	50Hz / 60Hz	50Hz / 60Hz	
Minex Lite 50/60Hz	50 942 01/50 942 02	51 695 00/51 695 03	No
Minex 1~ 50/60Hz	50 942 00/50 942 03	51 694 00/51 695 00	No
Minex 3~ 50/60Hz	50 942 00/50 942 01	51 694 00/51 695 00	No
Minette 1~ 50/60Hz	51 015 50/51 015 52	51 697 00/51 697 02	No
Minette 3~ 50/60Hz	50 939 00/50 939 01	51 698 00/51 698 02	No
Salvador 1~ 50/60Hz	51 092 00/50 837 02	51 092 10/51 700 02	No
Salvador 3~ 50/60Hz	50 837 00/50 837 01	51 700 00/51 700 01	No
Diffuser (NBR)			
Minex	50 943 00	51 701 00	No
Minex, prepared for zinc anodes	50 943 01	51 701 01	No
Minette 1~	51 020 00	51 702 00	No
Minette 1~, prepared for zinc anodes	51 020 01	51 702 01	No
Minette 3~	50 940 00	51 703 00	No
Minette 3~, prepared for zinc anodes	50 940 01	51 703 01	No
Salvador pump housing	Remains the same	Remains the same	Yes
Suction cover			
Minex , Minette 1 ~, Salvador	Not applicable	Not applicable	-
Minette 3 ~	50 941 00	51 704 00	No
Strainer (Improved easier to grip)			
Minex	50 929 00	51 717 00	No
Minette	50 922 00	51 718 00	No
Salvador, Stand	Remains the same	Remains the same	Yes
O-ring kit			
Minex	51 166 00	51 729 00	No
Minette	51 164 00	51 730 00	No
Salvador	51 165 00	51 731 00	No
Basic repair kit			
Minex	51 181 00	51 732 00	No
Minette	51 162 00	51 733 00	No
Salvador	51 163 00	51 734 00	No
Zinc anode kit			
Minex, Minette	51 077 00	51 736 00	No
Salvador	Remains the same	Remains the same	Yes

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Low-suction cuff			
Minex	50 653 00	51 781 01	No
Minette	Remains the same	Remains the same	Yes
Plug contacts and Phase shifter	Remains the same	Remains the same	Yes

Interchangeability on Minor, Major, Senior, Sandy (8103, 8104, 8110, 8111)

Description	Old version p/n	New version p/n	Fully replaceable
Handle	50 857 00 x 2	51 762 00 x 1	No
Main Cover	50 838 00	51 753 00	No
Main Cover for level reg.	50 838 01	Not applicable	No
Cover (Inspection)	50 856 00	51 761 00	No
Cover for level reg.	Not applicable	51 761 01	No
Level regulator kit			
Minor, Major, Senior, Sandy (Max 400V CE)	51 155 00	51 726 04	No
(Max 250V or 24V CE)	51 155 01	51 726 03	No
(Max 250V or 24V CSA)	51 155 02	51 726 05	No
Supervision relay isolated input	Not available	51 779 00	New
Discharge connections			
Hose 3"	50 944 00	51 771 00	No
ISO G3A	50 944 01	51 771 01	No
NPT 3-8	50 944 02	51 771 02	No
Victaulic 3", DN75	50 944 03	51 771 03	No
Hose 4"	50 919 00	51 772 00	No
ISO G4A	50 919 01	51 772 01	No
NPT 4-8	50 919 02	51 772 02	No
Victaulic 4", DN100	50 919 03	51 772 03	No
Cover for discharge outlet (sludge)	50 880 00	51 770 00	No
Adapter (Intermediate piece upper)			
Minor, Major, Senior, Sandy	50 947 00	Removed	No
Air valve (new)	50 836 00	50 869 00	No
Entrance flanges, cable seals, cable clips, washers	Remains the same	Remains the same	Yes
Terminal plate unit	51 642 00	51 764 00 (250-575V)	No

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		51 764 01 (200-240V)	No
Starter units (Contactor + Smart) Minor, Major, Sandy, Senior (for parts included in units)	51 082 XX See TNL 40	51 767 XX See parts list	No
Stators Minor 400V50Y, 500V50D (old) 500V50Y (new) 575V60D (old) 575V60Y (new)	50 904 04 (6-lead) 50 904 07 (6-lead) 50 904 07 (6-lead)	50 904 14 (3-lead) 50 904 15 (3-lead) 50 904 15 (3-lead)	Yes Yes Yes
Stators Major, Sandy 400V50Y, 500V50D (old) 500V50Y (new) 575V60D (old) 575V60Y (new) Other voltages/configurations	50 980 04 (6-lead) 50 980 07 (6-lead) 50 980 07 (6-lead) Remains the same	50 980 13 (3-lead) 50 980 15 (3-lead) 50 980 15 (3-lead) Remains the same	Yes Yes Yes
Stator housing Minor, Major, Senior, Sandy	50 949 00	51 750 00	No
Adapter (Oil casing) Minor, Major, Senior, Sandy	50 951 00	50 951 01	Yes
Mechanical seal unit Minor, Major, Senior, Sandy (20mm)	50 901 23	51 760 51	Yes
Adjustment sleeve Adjustment screw	50 974 00 50 931 00	Sleeve unit = 51 751 00	Yes
Impellers, Seal housing covers, Suction covers, pump housing & stand on sludge	Remains the same	Remains the same	Yes
Diffusers Minor, Major Standard Nitrile rubber <u>Option Polyurethane (from 2013-09-27)</u> Minor/Major N- version PU Minor/Major H- version PU	Remains the same Not available Not available	Remains the same 50 955 01 50 954 01	Yes Yes Yes
Strainer (Improved easier to grip)	50 961 00	50 961 00	Yes
O-ring kit Minor, Major, Senior, Sandy	51 066 00 51 093 00	51 774 00 51 777 00	No No
Basic repair kit Minor, Major, Senior, Sandy	51 072 00 51 094 00	51 785 00 51 786 00	No No
Zinc anode kit Minor, Major, Senior, Sandy	Remains the same	Remains the same	Yes

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Plug contacts and Phase shifter	Remains the same	Remains the same	Yes
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Interchangeability on Master - Matador (8105, 8106)

Description	Old version p/n	New version p/n	Fully replaceable
Handle on Master & Matador	Remains the same	Remains the same	Yes
Main Cover Master	Remains the same	Remains the same	Yes
Cover (Inspection)	Remains the same	Remains the same	Yes
Cover for level reg.	Not available	50 862 01	New
Main Cover Matador	50 865 00	51 739 00	No
Cover (Inspection)	Remains the same	Remains the same	Yes
Cover for level reg.	Not available	50 994 01	New
Level regulator kit (Max 400V CE)	Not available	51 726 08	New
(Max 250V or 24V CE)	Not available	51 726 06	New
(Max 250V or 24V CSA)	Not available	51 726 07	New
Supervision relay isolated input	Not available	51 779 00	New
Discharge connections	Remains the same	Remains the same	Yes
Air valve on Master & Matador	Remains the same	Remains the same	Yes
Entrance flanges, cable seals, Cable clips, washers	Remains the same	Remains the same	Yes
Terminal plate unit	Remains the same	Remains the same	Yes
Starter units			
Master, Matador DOL - all voltages	50 993 XX	50 993 XX	Yes
Master Y/D 400V50Hz	51 000 01	Info will come	-
Master Softstart 400V50Hz	51 318 02	51 318 02	Yes
Matador Y/D 400V50Hz	50 999 02	51 747 01	Yes
Matador Y/D 460V60Hz	50 999 03	Info will come	-
Matador Softstart 400V50Hz (for parts included in units)	51 318 03 see TNL 40	51 318 03 see parts list	Yes
Stator	Remains the same	Remains the same	Yes
Stator housing			
Master	51 048 00	51 757 00	Yes
Matador	51 031 00	51 740 00	No
Adapter (Oil casing)			
Master	51 049 02	51 049 03	Yes

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Matador	51 039 02	51 741 00	No
Mechanical seal unit			
Master (25mm)	51 027 22	51 755 51	Yes
Matador (35mm)	51 028 22	51 745 51	Yes
Master		Sleeve unit =	
Adjustment sleeve	51 056 01	51 756 00	Yes
Adjustment screw	51 055 00		
Matador		Sleeve unit =	
Adjustment sleeve	51 035 02	51 746 00	Yes
Adjustment screw	51 036 00		
Impellers, Seal housing covers, Suction covers	Remains the same	Remains the same	Yes
Diffusers			
Standard Nitrile rubber	Remains the same	Remains the same	Yes
<u>Option Polyurethane (from 2013-09-27)</u>			
Master N- version PU	Not available	51 022 01	Yes
Master H- version PU	Not available	51 021 01	Yes
Master SH middle - version PU	Not available	51 314 01	Yes
Master SH lower - version PU	Not available	51 315 01	Yes
Master SH upper - version PU	Not available	51 316 01	Yes
Matador N- version PU	Not available	51 019 01	Yes
Matador H- version PU	Not available	51 018 01	Yes
Strainer			
Master & Matador	Remains the same	Remains the same	Yes
O-ring kit			
Master	51 068 00	51 775 00	No
Matador	51 069 00	51 776 00	No
Basic repair kit			
Master	51 074 00	51 778 00	No
Matador	51 075 00	51 784 00	No
Zinc anode kit			
Master, Matador	Remains the same	Remains the same	Yes
Plug contacts and Phase shifter	Remains the same	Remains the same	Yes

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Spare parts

Spare parts for older versions

8101.171, 8102.171, 8103.180, 8104.180, 8105.181, 8106.180, 8109.281, 8110.280, 8111.280

will be available for 10 years.

Yours sincerely,

Per Nilsson / Jonas Bladh

Product Managers