

**Dear Distributor,**

The dimensions of impeller casting and the machined impellers have been changed.

**Reason for the change**

The tested performance curve of the pump comes closer to the published Q-H performance curve within the set tolerances upper and lower curve limits. The adjustment of impeller and diffusers becomes more accurate.

The machined impeller is more precise and accurate in dimension.

The rated data of the pump is unaltered with one exception for the Matador N pump 50 Hz, the input power consumption of motor is increased to  $P_{\max.} = 24 \text{ kW}$ .

The technical data on pump data plate and technical data sheet has been adjusted accordingly.

For the new impellers there are new spacer tubes that must be used.

The new and old parts for Matador Proline are shown in the below table.

Item no.	Denomination	New Part	Old Part
44	Spacer tube	50 122 02 (98mm)	130 959 (93 mm)
53	Impeller N 50 Hz VJ	50 389 00	130 719
53	Impeller N 50 Hz RF	50 389 02	130 719RF
53	Impeller N 60 Hz VJ	50 389 01	130 939
53	Impeller N 60 Hz RF	50 389 03	130 939RF

The new parts are shown in spare parts list 90 006 00 rev. 16.

The new and old parts for Matador MSHA are shown in the below table.

Item no.	Denomination	New Part	Old Part
33	Spacer tube	50 122 03 (118 mm)	50 122 00 (113 mm)
42	Impeller N 60 Hz VJ	50 389 01	130 939
42	Impeller N 60 Hz RF	50 389 03	130 939RF

The new parts are shown in spare parts list 90 019 00 rev. 6.

**Remarks**

The old impellers and spacer tubes will be available and should be used in pumps with the old hydraulic design. Actual pumps were manufactured before May 2003 with lower serial numbers than Matador Proline 166935 and Matador MSHA 166722.

**Note!** If a new impeller and spacer tubes are used for repair of an old pump the lower diffuser will interfere with the swirl damper guide vanes in strainer bottom. This assembly is possible and can be completed if the vanes are being shortened by 5 mm!

### Time of change and introduction

From May 2004, pumps with the following serial numbers have been equipped with the new impellers and spacer tubes: 172516, 173914, 173915, and 174338. Pumps with the following have been converted from 60 Hz to 50 Hz execution and equipped with the new impellers and spacer tubes: 176734, 176735, 176736, 177044 and 177045.

All pumps with higher serial numbers are equipped with new parts.

### Visual identification

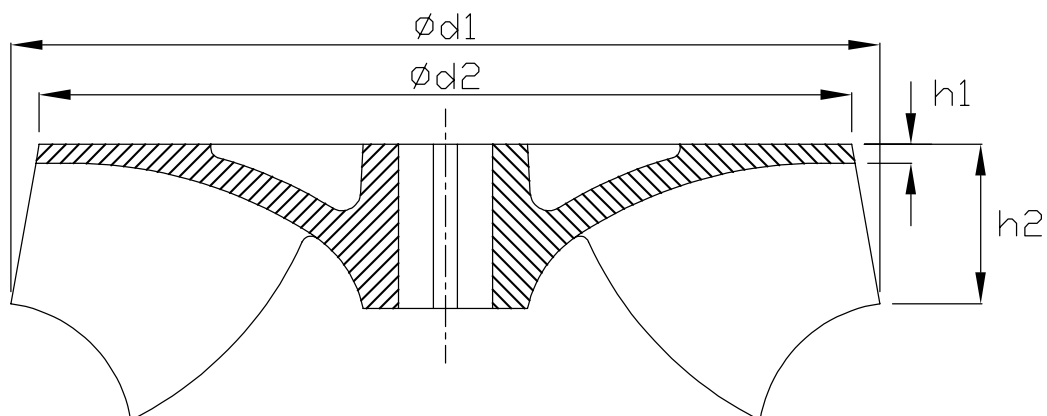
The centre disc of new impellers is 1 mm thicker, see below table measure h 1.

Old impellers with new dimensions according to drawing No. 5038900

Part No.	Diameter d 2	Diameter d 1	Height h 2	Height h 1
130 719 N 50 Hz	179,0	189,6	29,8	5,0
130 719RF N 50 Hz	179,0	189,6	29,8	5,0
130 939 N 60 Hz	160,0	173,2	31,4	5,0
130 939RF N 60 Hz	160,0	173,2	31,4	5,0

New impellers with dimensions according to drawing No. 5038900

Part No.	Diameter d 2	Diameter d 1	Height h 2	Height h 1
50 389 00 N 50 Hz	179,0	190,3	31,8	6,0
50 389 02 N 50 Hz	179,0	190,3	31,8	6,0
50 389 01 N 60 Hz	160,0	173,9	33,4	6,0
50 389 03 N 60 Hz	160,0	173,9	33,4	6,0



Yours sincerely,

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