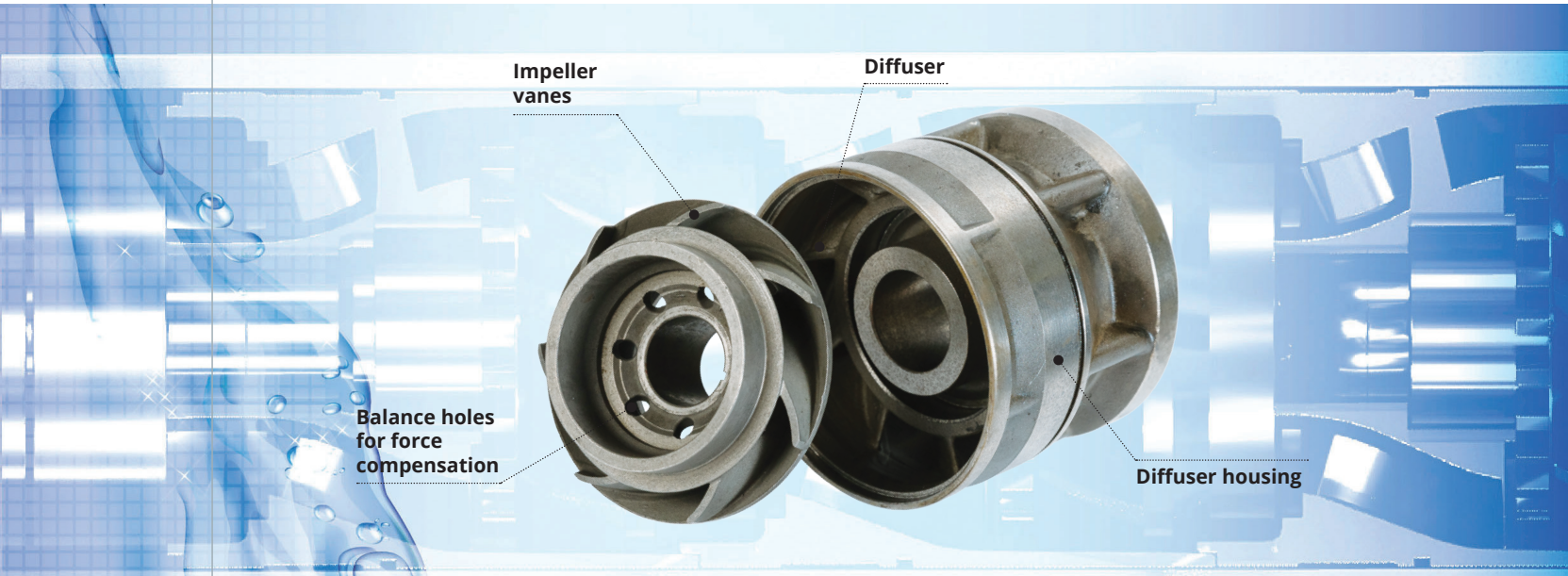




EXTENDED RANGE ESP SYSTEM



Advantages:

Extended range of operation gives an option for customers to use only one ESP in wells with variable or rapidly decreasing production rates (for example: in shale formations, dense reservoirs and deeper zones), avoiding lifting and equipment's replacement in production rates changings.

- New stage design has low axial force characteristic over the entire operating range, which is achieved due to design features.
- Wide range is provided at a standard rotation speed.

Purpose:

- Simplification of the ESP's selection to the well and increasing the profitability of service projects by reducing the stock of pumps of various sizes.
- Lifting and pumping of oil from producing wells with changing production conditions.
- Minimization of downtime because of lifting and replacing the ESP with changes in the wells' flow rate.

Application area:

- Oil fields at a late stage of development
- Shale oil fields
- Wells with unstable or rapidly declining production rates



Wear-resistant design



High efficiency in a wide flow rate range

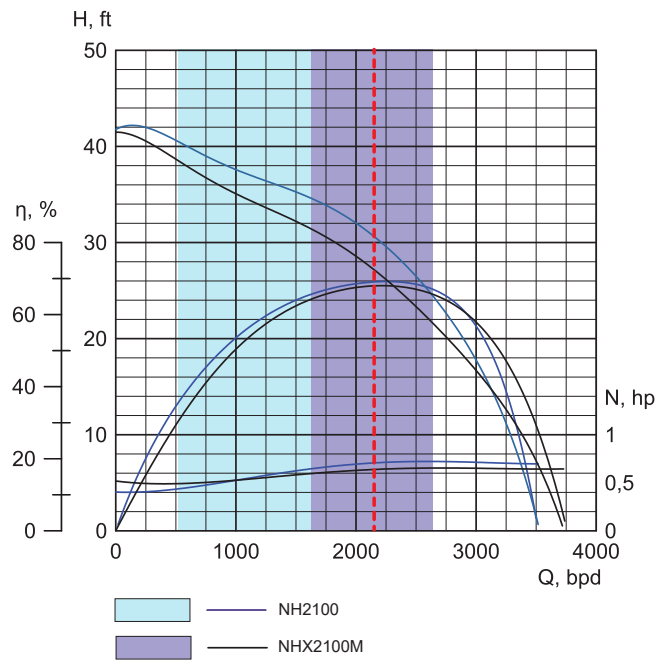


Extended working area due to low axial force

Application features of the new stage:

- ESP can be assembled in the floating pump type that decreases cost and selling price
- Reduced load on bearings and thrust bearing that has a positive effect on the reliability of the ESP in standard conditions
- The ESP is equipped with both a permanent magnet and induction motor that allows to work with an old-designed VSDs.
- Wide flow rate range provides an increase in the profitability of equipment operation and service.

Increasing working range of the feed in comparison with the standard stage



3 modifications according to operating conditions:

- | | | |
|--|---|---|
| <ul style="list-style-type: none"> • Basic
Maximum TSS 0,5 g/l.
5A-125, 5A-280 | <ul style="list-style-type: none"> • Wearable
For heavy duty.
Maximum TSS 1 g/l.
5 size – 7 variants (360-3 800 BPD),
5A size – 8 variants (680-6 000 BPD),
7A size – 5 variants (1 500-15 000 BPD) | <ul style="list-style-type: none"> • Increased wear resistance
For extra-heavy duty.
Maximum TSS 3 g/l.
5-200, 5-500, 5A-125, 5A-240,
5A-400, 5A-700. |
|--|---|---|

CONTACT US



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