

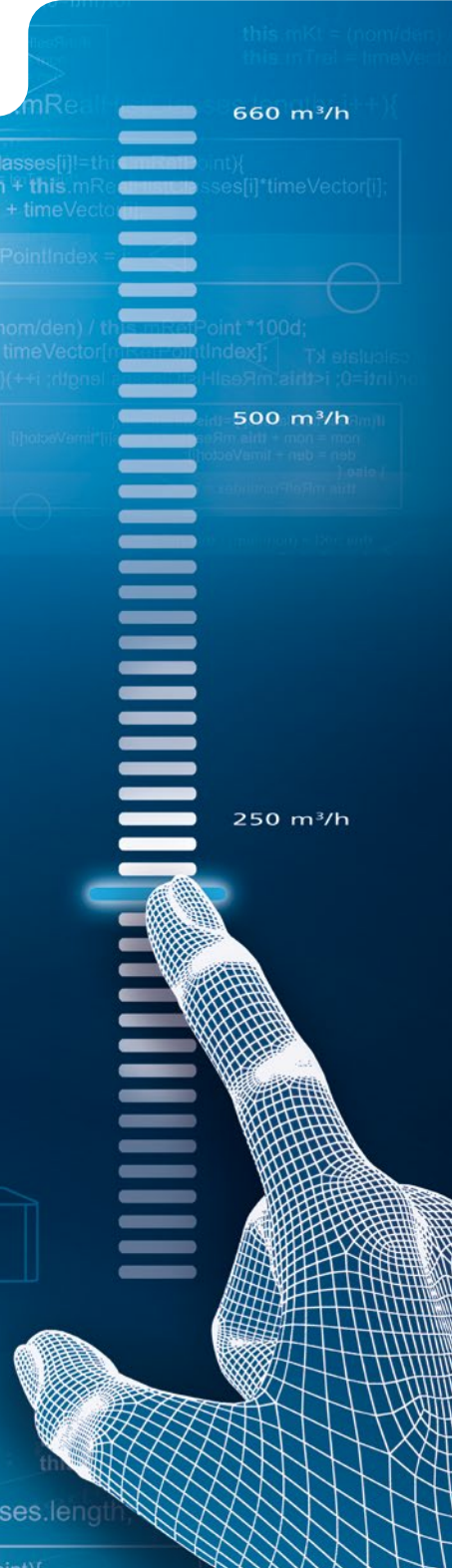
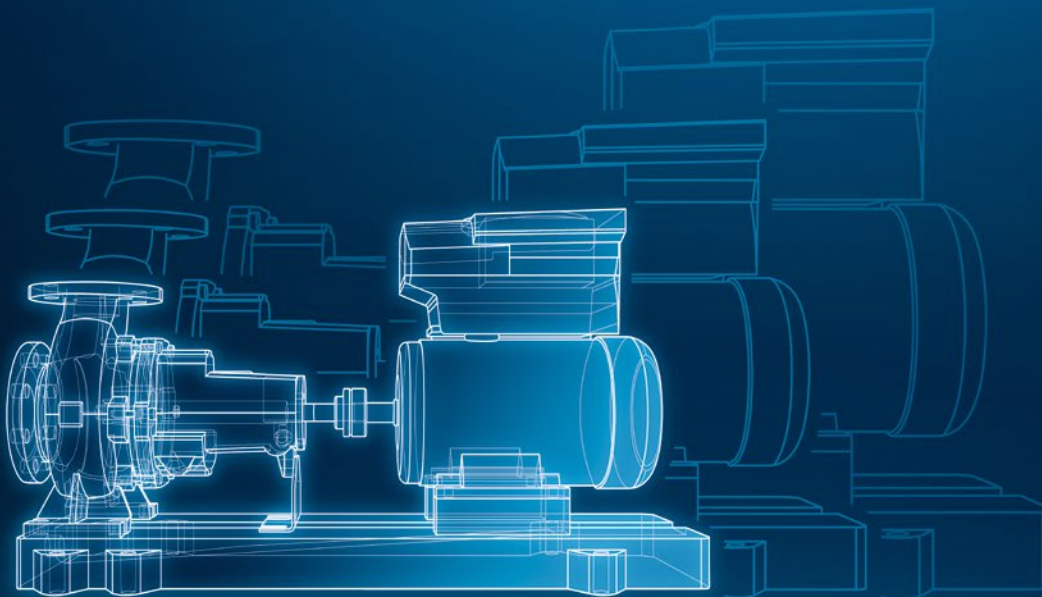
► Our technology. Your success.

Pumps • Valves • Service



# World Novelty **MyFlow Technology:** Constant Flow – Now More Individual Than Ever

## MYFLOW TECHNOLOGY



```
// calculate kT
for(int i=0; i<this.mRealHistClasses.length; i++){
    if(mRealHistClasses[i]!=this.mRefPoint){
        nom = nom + this.mRealHistClasses[i]*timeVector[i];
        den = den + timeVector[i];
    } else {
        this.mRefPointIndex = i;
    }
}

this.mKt = (nom/den) / this.mRefPoint * 100d;
this.mTrel = timeVector[this.mRefPointIndex];

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# Intelligent process innovation for constant flow applications

Imagine you could cover the same operating range you used to need 43 pump casing sizes for with only 18 sizes. Imagine you could adjust the operating point with a simple click without having to machine the impeller. Actually, you can – with MyFlow Technology. The unique drive solution for constant flow applications reduces variant complexity and makes planning more reliable as the operating point can be adjusted to individual requirements.

## Reduced variant complexity, increased planning reliability

In the past, adjusting the operating point of standardised water pumps in constant flow applications to system requirements meant choosing the right size from a large range of closely spaced pump sizes and trimming the impeller diameter to precise requirements. With individual fixed speeds, fewer pump sizes cover all applications with no loss of efficiency, reducing hydraulic systems variant complexity by more than 50%. This saves time and costs when it comes to planning and processing. Also, being able to simply adjust the speed at any time has made planning much more reliable.

In brief: Adjusting the speed level at full impeller diameter replaces matching the impeller to a specified speed.



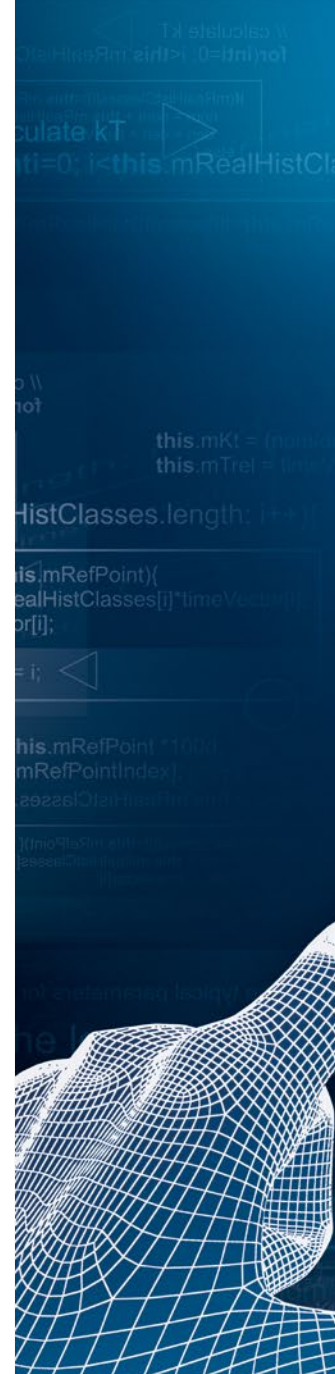
## Smart drive for simple installation

Compared to conventional standardised water pumps, installing and commissioning Eta MyFlow pumps is fast and convenient. Not even the direction of rotation needs to be checked: Plug and pump, as simple as that. Additional components for starting current limitation and motor protection are no longer needed, e.g.:

- Motor protection switches
- Overcurrent trips
- PTC thermistor tripping units
- Star-delta contactors
- 7-core cables

## Future-proof: data source for Industry 4.0

With MyFlow Technology the pump is ready for communication and digitalisation: Operating data is provided via the integrated Modbus interface, enabling new service concepts.



# MYFLOW TECHNOLOGY

Taking this entirely new approach for selecting and individualising standardised water pumps streamlines processes and saves costs.

## Virtual impeller trimming

If any changes are made to the system, the speed level for optimum energy efficiency can simply be adjusted to the individual requirements by smartphone (via a Bluetooth gateway).

## Individual fixed speed

The pump is matched to the design point by selecting individual fixed speed levels at full impeller diameter, providing maximum efficiency of the hydraulic system.

## Efficient solution based on proven technology

The powerful performance of MyFlow Technology is built on proven solutions. A KSB SuPremE® IE5 motor\* provides the highest energy efficiency. The drive is based on the tried and tested platform of KSB's PumpDrive variable speed systems, including features such as sensor-less dry running protection. With MyFlow Technology the  $NPSH_r$  values remain practically constant.

For more information, visit

[www.ksb.com/myflow-technology](http://www.ksb.com/myflow-technology)





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