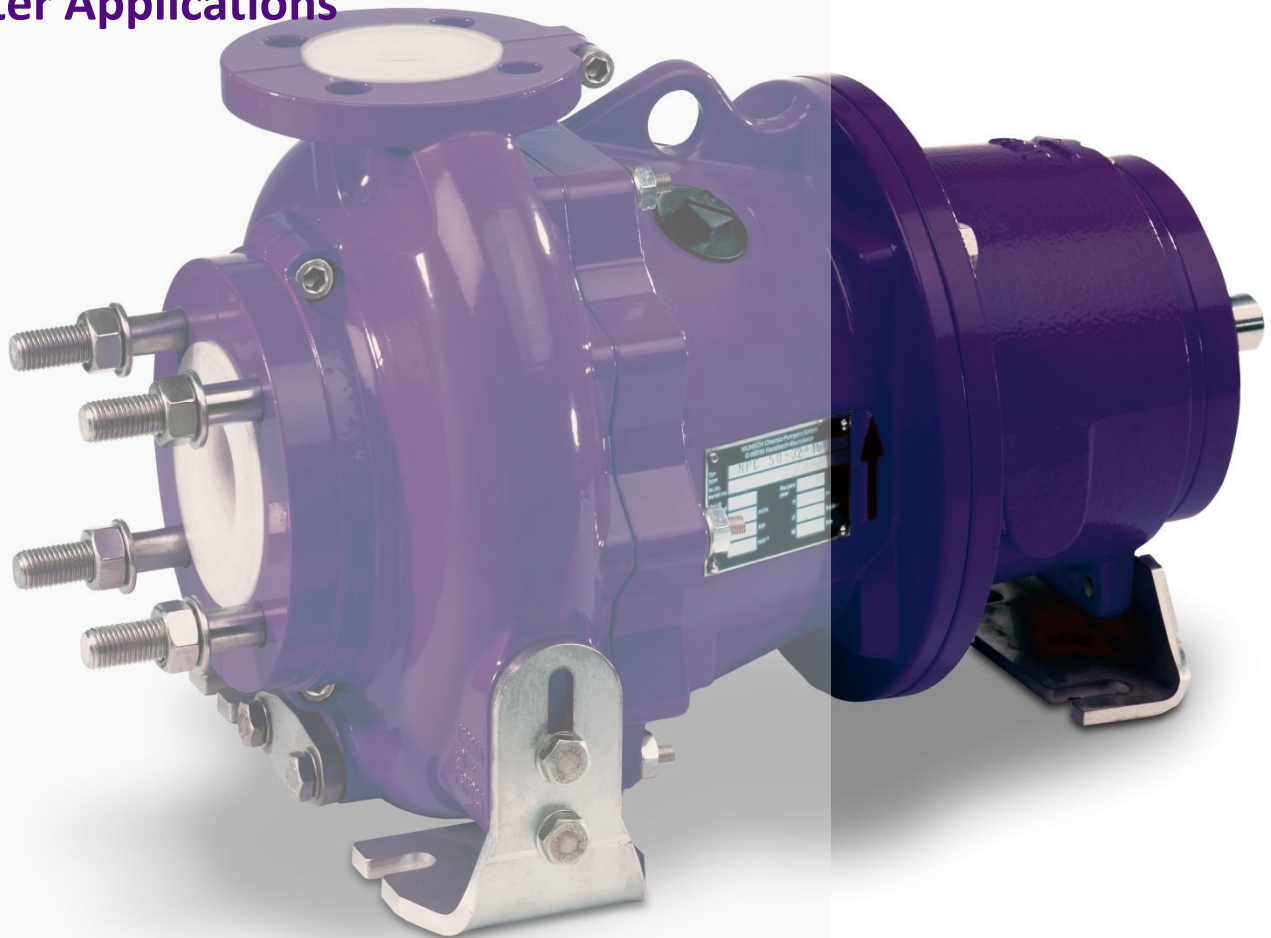


## OVIVO<sup>®</sup> UPW PUMPS

### Non-Metallic Pumps for Ultra-Pure Water Applications



#### Ovivo Switzerland AG

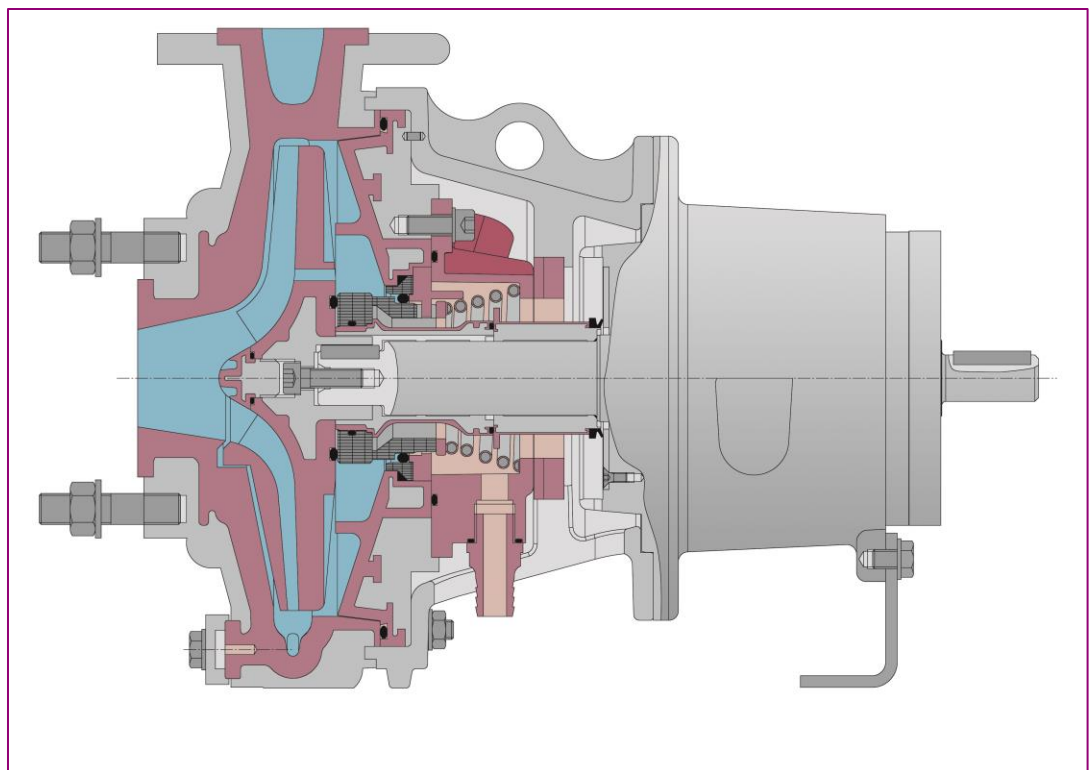
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## OVERVIEW

A new generation of non-metallic high purity pumps, designed and manufactured to the most stringent semiconductor standards – the uncompromising answer to what wafer fab plant operators expect in order to meet current and future ITRS requirements.

- ▶ **High purity:**  
Special ultrapure water compatible PVDF Granulate
- ▶ **Cleaning:**  
Semiconductor-grade cleaning procedure for all wetted parts
- ▶ **Excellent wear allowance:**  
Volute casing with wall thicknesses > 10mm
- ▶ **Impeller:**  
High efficiency, low NPSH requirement
- ▶ **Steep pump characteristic:**  
Exact operating point
- ▶ **Impeller mounting:**  
Unaffected by reverse rotation
- ▶ **Single mechanical seal:**  
Metal-free REA-F mechanical seal, independent of direction of rotation



## TECHNICAL DATA

	NPC	NP
<b>APPLICATIONS</b>	Types NPC/NP are the pumps of choice for application in the final polishing sections of an ultrapure water plant and distribution loop of a state-of-the-art semiconductor fabrication facility	
<b>DESIGN</b>	NPC standard pump with dimensions to EN 22858 / ISO 2858 / ISO 5199	Horizontal centrifugal pump with volute casing and single entry, single-stage radial impeller, nominal pressure PN10. Dimensions to EN 22858 / ISO 2858

### PERFORMANCE

<b>Pump Capacity</b>	up to 200 m <sup>3</sup> /h	up to 1200 m <sup>3</sup> /h
<b>Differential head</b>	up to 90 m	up to 100 m
<b>Discharge nozzle</b>	from DN 25 to DN 65	from DN 25 up to DN 250
<b>Motor rating</b>	up to 30 kW	Up to 200 kW



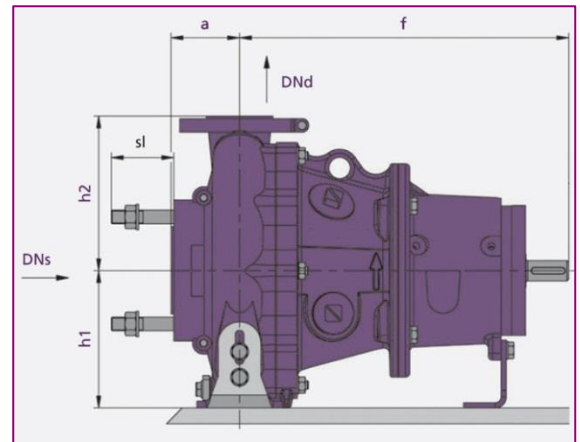
### MATERIALS

<b>Pump</b>	The non-metallic UPW pumps are available in PVDF as well as in PP and PFA for universal fluid compatibility.
<b>Mechanical seal</b>	All silicon carbide components are manufactured from EKasic <sup>®</sup> C known for its unsurpassed wear and corrosion resistance properties.
	REA-F single mechanical seal: stationary and rotating seal rings made from EKasic <sup>®</sup> C with fluoroplastics coated spring
	REA-F/D double mechanical seal: stationary and rotating seal rings made from EKasic <sup>®</sup> C on the fluid-side and carbon on the atmosphere-side; stainless steel spring.
<b>Shaft sleeve</b>	Fluoroplastics-coated stainless steel

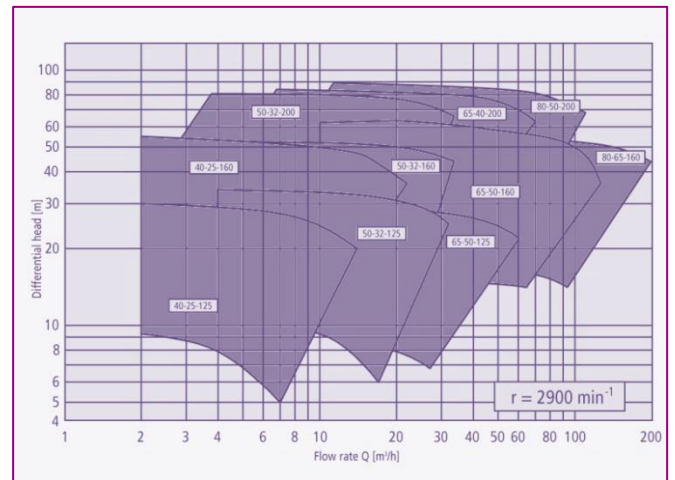
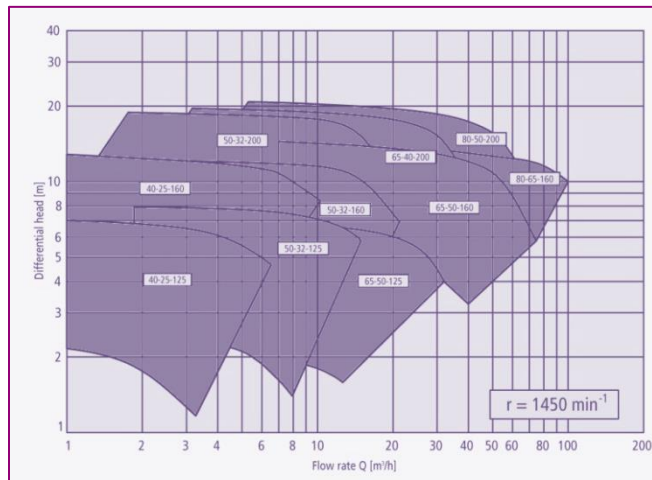
# DIMENSIONS

## Standard NPC pump

Pump size	DNs	DNd	a	f	h1	h2
40-25-125	40	25	80	385	112	140
40-25-160	40	25	80	385	132	160
50-32-125	50	32	80	385	112	140
50-32-160	50	32	80	385	132	160
50-32-200	50	32	80	385	160	180
65-40-200	65	40	100	385	160	180
65-50-125	65	50	80	385	112	140
65-50-160	65	50	80	385	132	160
80-50-200	80	50	100	385	160	200
80-65-160	80	65	100	385	160	200

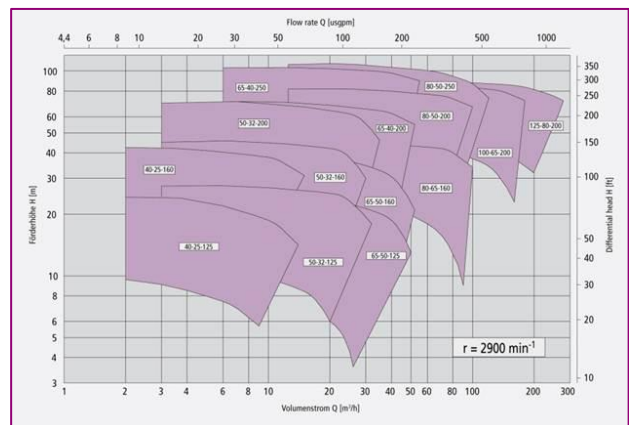
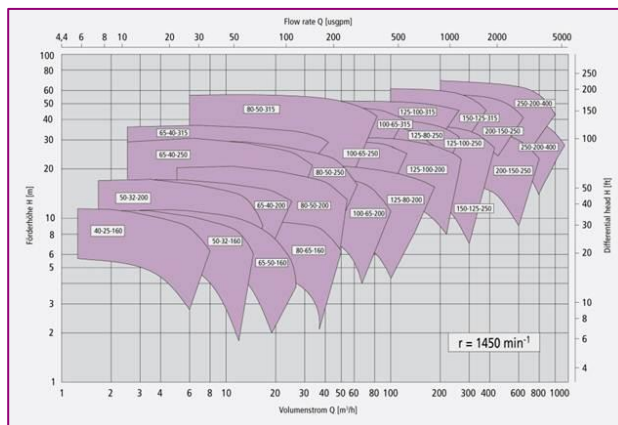
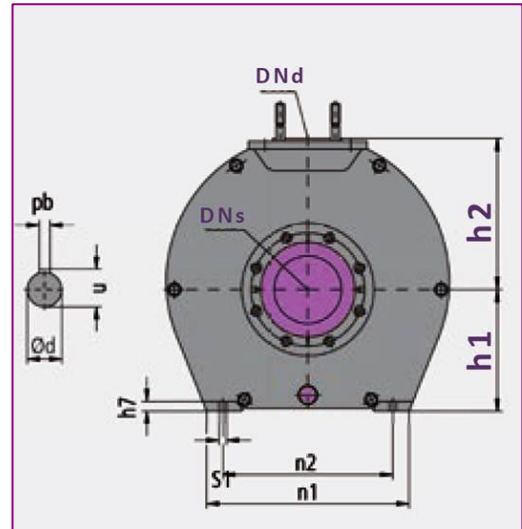
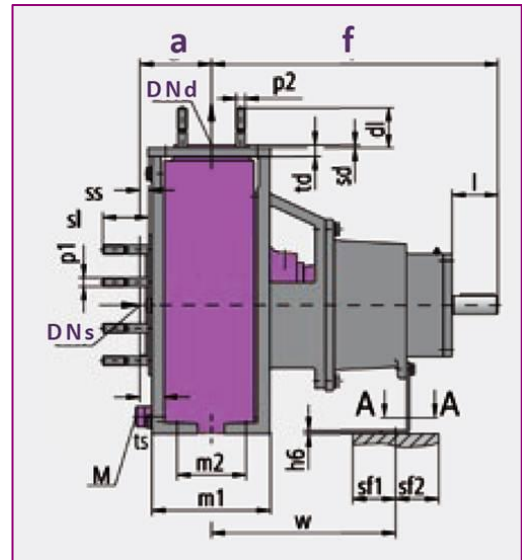


## Performance Chart



## Standard NP pump

Pump size	DNs	DNd	a	f	h1	h2
40-25-160	40	25	80	385	132	160
50-32-160	50	32	80	385	132	160
50-32-200	50	32	80	385	160	180
65-40-200	65	40	100	385	160	180
65-40-250	65	40	100	500	180	225
65-40-315	65	40	125	500	200	250
65-50-160	65	50	80	385	132	160
80-50-200	80	50	100	385	160	200
80-50-250	80	50	125	500	180	225
80-50-315	80	50	125	500	225	280
80-65-160	80	65	100	385	160	180
100-65-200	100	65	100	500	180	225
100-65-250	100	65	125	500	200	250
100-65-315	100	65	125	530	225	280
125-80-200	125	80	125	500	180	250
125-80-250	125	80	125	500	225	280
125-100-200	125	100	125	500	200	280
125-100-250	125	100	140	530	225	280
125-100-315	125	100	140	530	250	315
150-125-250	150	125	140	530	250	355
150-125-315	150	125	140	530	280	355



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