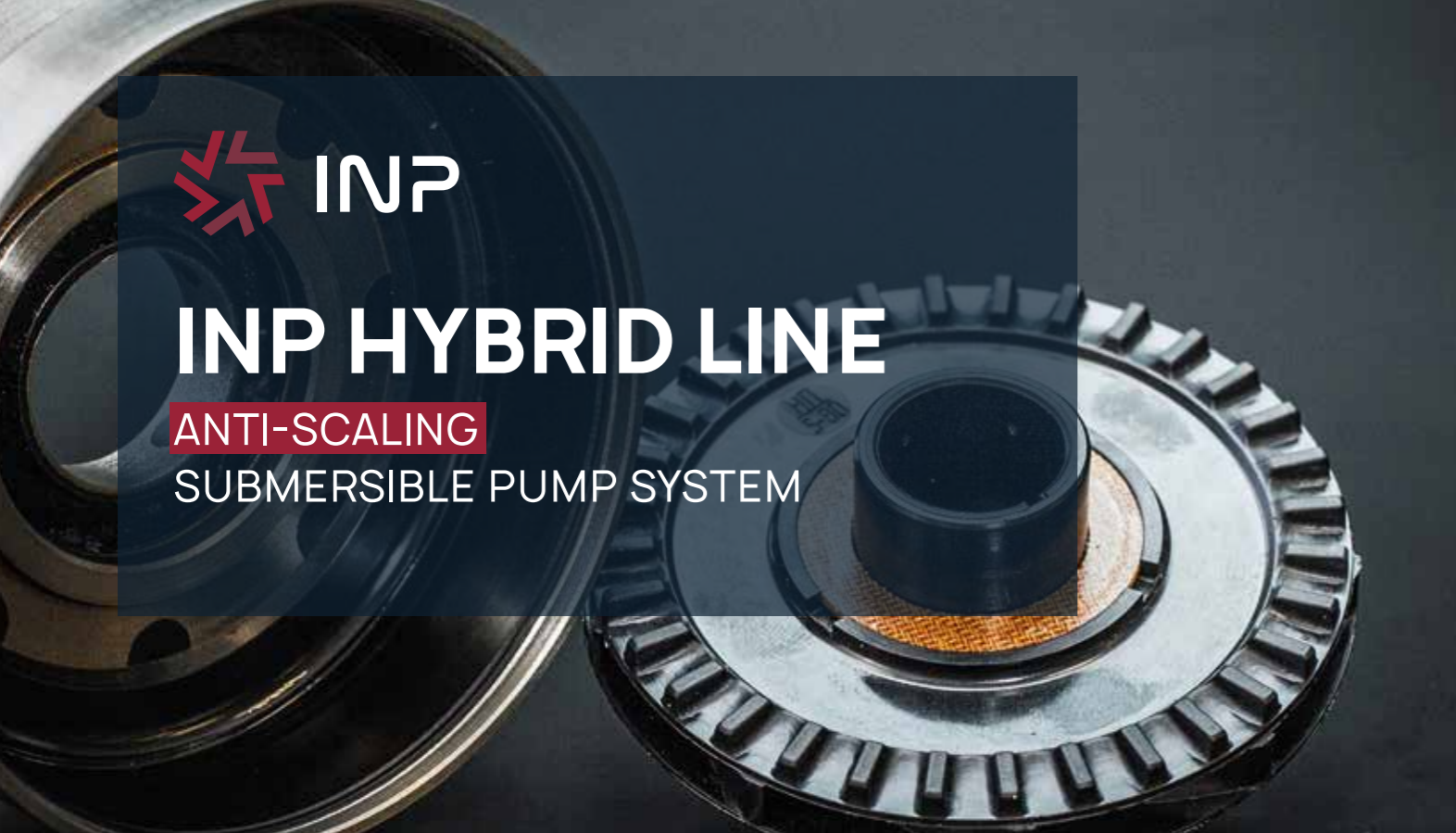




INP HYBRID LINE

ANTI-SCALING

SUBMERSIBLE PUMP SYSTEM



INP Hybrid series submersible pump is our response to high-corrosive fluids and mineral deposition (or scaling) on metallic surface. Especially in high water cut and high viscosity fluid

The unique material delivers high acid- corrosion- gas- resistance together with a metal-like strength, it demonstrates steady operation at temperatures up to 270 °C.

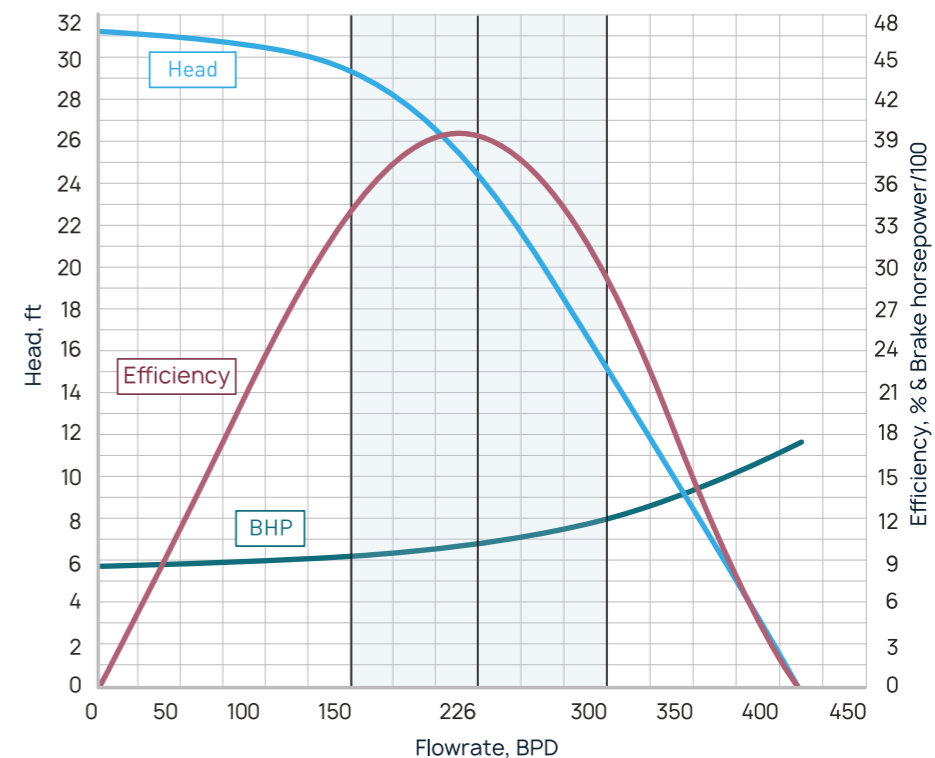


FEATURES

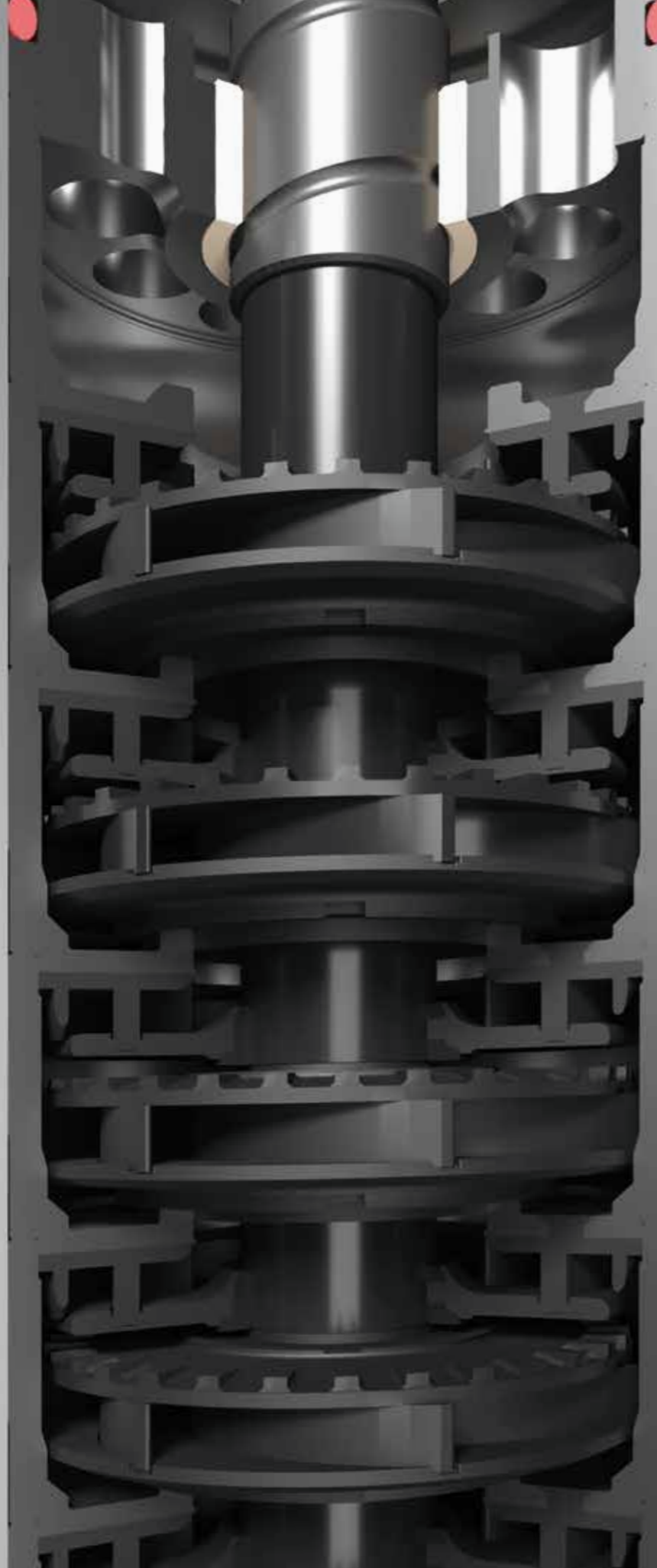
In extensive field operation showed the following results:

- Triple scaling reduction or no scale build-up (depends on the configuration)
- Best solution for high-water cut. 1.5 times longer mean run-to-failure time in high-water-cut fluid
- Energy-efficient. 20% less power consumption and good balance on high rpm due to its light weight
- Reliable. No clogging, no plugging in fluid with high non-abrasive solids content
- Cost-saving. Requires much less or none chemical treatment for long service life

362.NP.K.225.XXXX PUMP PERFORMANCE CURVE @60HZ/3500 RPM



STAGE CHARACTERISTICS			
Q, BPD	H, ft	N*100, BHP	Efficiency
0	29,8	9,40	0
75	29,3	9,40	18
151	27,4	9,87	31
226	25,0	9,87	43
302	19,8	10,81	41
307	13,2	11,99	31
491	0,0	13,63	0



CONFIGURATIONS

REGULAR

Along with inhibition, Regular INP Hybrid **extends pump service life up to 73 %**



Polymer impeller



Ni-Resist diffuser
 Ni-Resist diffuser flow paths

ANTI-SCALE

Requires minimum inhibition or other chemical treatment to operate **without clogging**



Polymer impeller



Ni-Resist diffuser
 Polymer diffuser flow paths

ANTI-SCALE +

Requires no inhibition, **no scale build-up**



Polymer impeller



Polymer diffuser flow paths
 and inner polymer lining

PUMP SERIES	OD	NOMINAL FLOW RANGE	HEAD	EFFICIENCY RATE
362	3.62 in	113-1509 bpd @60Hz	27.4 ft	28-58 %
	92 mm	15- 200 m ³ /d @50Hz	5.8 m	
406	4.06 in	453-3019 bpd @60Hz	33.5 ft	46-65 %
	103 mm	60-400 m ³ /d @50Hz	7.1 m	