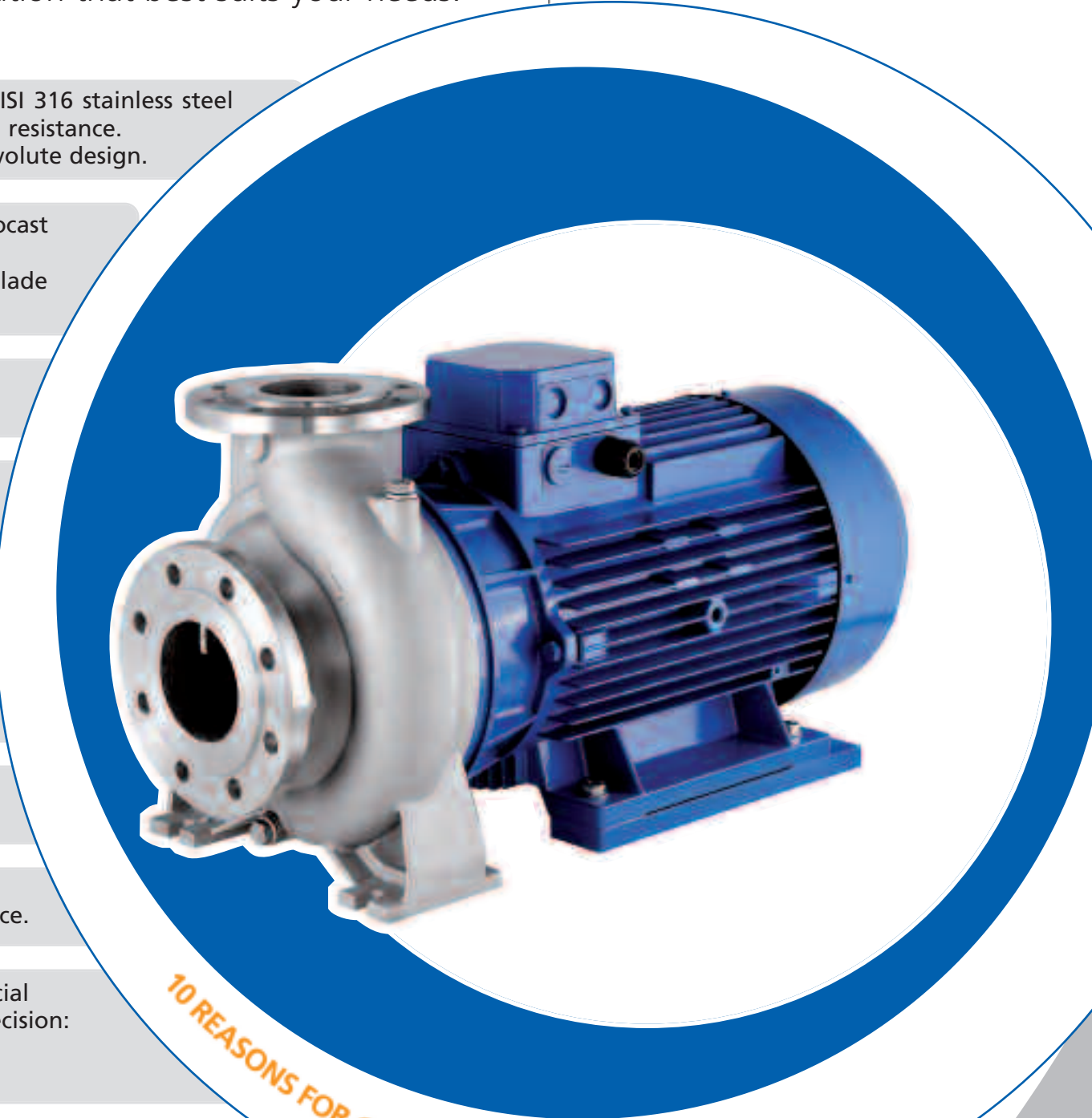




3 SERIES 80

3 Series 80 pumps are manufactured to the highest standards of quality and to achieve the highest levels of operating performance by means of a strict, through quality control program that involves the whole manufacturing cycle. With an extensive range of models to choose from, EBARA can provide you with the solution that best suits your needs.

- 1** Casing completely manufactured in microcast AISI 316 stainless steel permits to obtain high mechanical and corrosion resistance. Considerable efficiency thanks to the particular volute design.
- 2** Dynamically balanced impellers, completely microcast AISI 316 stainless steel reduce pump vibrations. High technology permits to shape the impeller blade and obtain low NPSH values.
- 3** All components in contact with liquid are in AISI 316 stainless steel.
- 4** The standard DIN SiC/SiC/FPM mechanical seal ensures a wide range of applications, due to its compatibility with several chemical aggressive liquids. Alternative materials available on request to satisfy all your needs.
- 5** Casing cover with pin against mechanical seal rotation.
- 6** Balanced impellers reduce axial thrust and assure a long life of bearings.
- 7** Fastening screws of the casing cover allow easy disassembling by keeping the casing cover in place.
- 8** High casting technology helps obtaining superficial finishings with a high degree of dimensional precision: this means significant hydraulic performance, reliability and quality.
- 9** "Back pull out" design - allows the removal of the motor/impeller assembly, without remove the casing from the pipe.
- 10** On request the casing cover can be supplied on internal re-circulation version or external flushing.

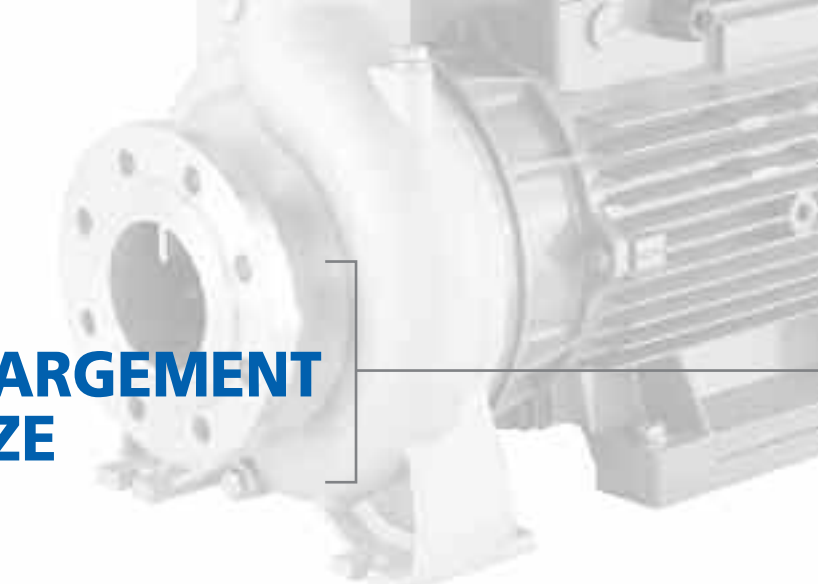


10 REASONS FOR CHOOSING THE EBARA 3 SERIES

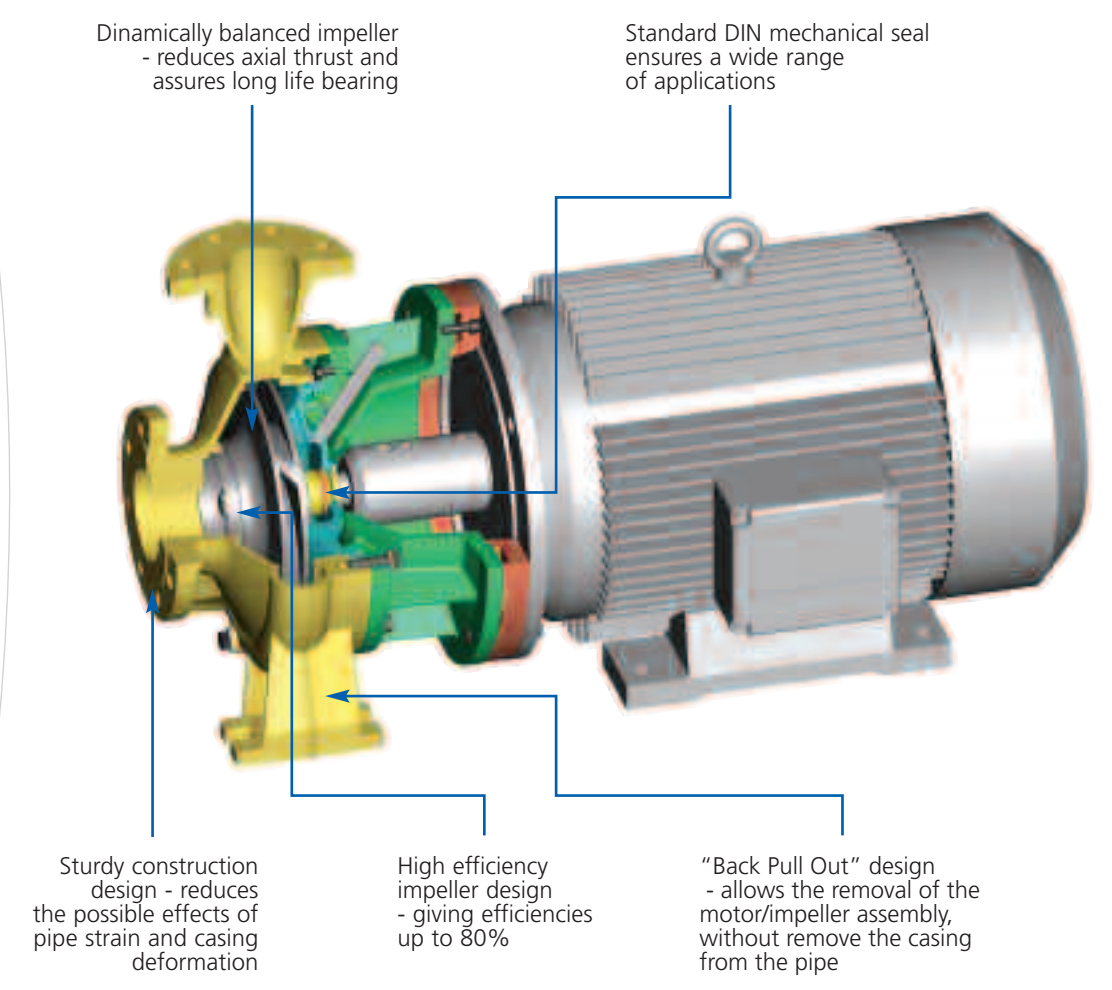
PUMP				
Version	80-160	3LM - 3LM4	3LMH - 3LM4H	3LME - 3LM4E
Pump sizes	65-250	3LS - 3LS4	3LSH - 3LS4H	3LSE - 3LS4E
	80-160			
	80-200	3LP - 3LP4	3LPH - 3LP4H	3LPE - 3LP4E
	80-250			
Material options		standard version	H version	E version
Liquid Handled	Type of liquid	Water with moderately aggressive fluids		Clean water, Drinking water, Water contains glycol
	Temperature	min. [°C]	-10	-20
		max.	+110	+120
Maximum working pressure	[MPa]	1 (10 bar)		
Impeller	Impeller	Closed centrifugal three dimensional blades		
	Shaft seal type	Mechanical seal with stationary ring secured against rotation	Mechanical seal	
Pipe Connection	Suction	Flange DN 100 according DIN 2532 standard		
	Discharge	Flange DN 80 according DIN 2532 standard		
Casing cover	Impeller	EN 1.4401 (AISI 316) Made by precision casting		
	65-250			
	80-200/250	EN 1.4404 (AISI 316L)		
	80-160 (2 poles)	EN 1.4404 (AISI 316L)		
Mechanical seal	Rotary	SiC	Ceramic	SiC
	Stationary	SiC	Carbon	Carbon
	Rubber			
O-ring		FPM		EPDM
O-ring for plug				
Bracket		Cast iron EN-GJL-250		

MOTOR				
Pump application		3LM-3LM4	3LS-3LS4	3LP-3LP4
		80 - 160	65 - 250	80 - 160 / 80 - 200 / 80 - 250
Type		Electric-TEFC		
No. of Poles		Three phase		
Rotation speed	[min ⁻¹]	~2900 (2 poles) / ~1400 (4 poles)		
Insulation class		F (class B for temperature rise)		
Protection degree		IP 55		
Power rating (2 poles)	[kW]	11±18.5	11±55	
	[HP]	15±25	15±75	
Power rating (4 poles)	[kW]	1.5±7.5		
	[HP]	2±10		
Frequency	[HZ]	50		
Voltage (2 poles)	[V]	400/690 ± 10%		
Voltage (4 poles)	[V]	230/400 ± 10% (up to 4 kW), 400/690 ± 10% (5,5 kW and above)		
Casing material		Aluminium		
Flange mount (IEC motor)		/	IMB 35	IM B3

3 SERIES: RANGE ENLARGEMENT UP TO 80 SIZE



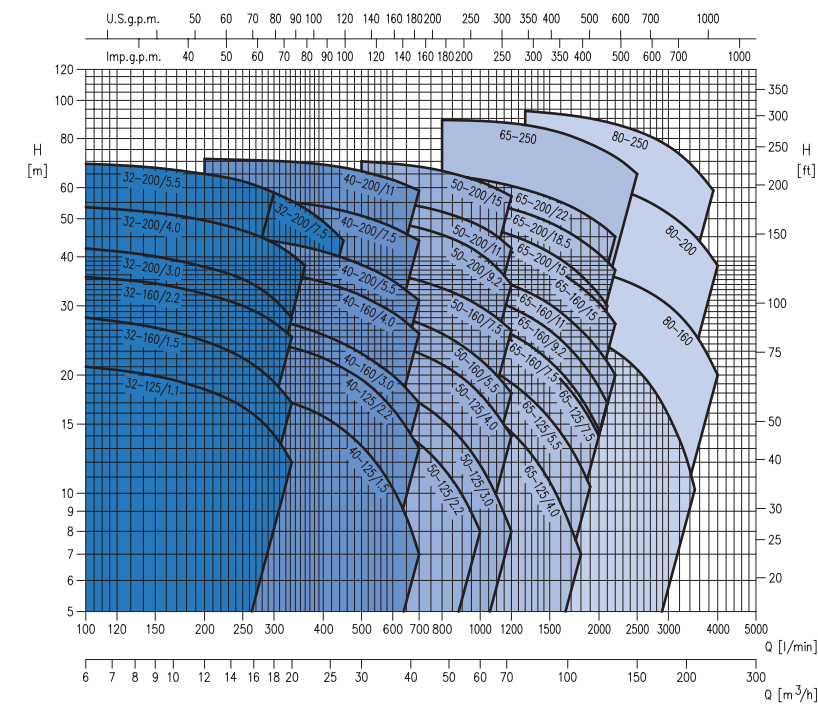
3M-3S-3P 80 Pump based on EBARA advanced technology



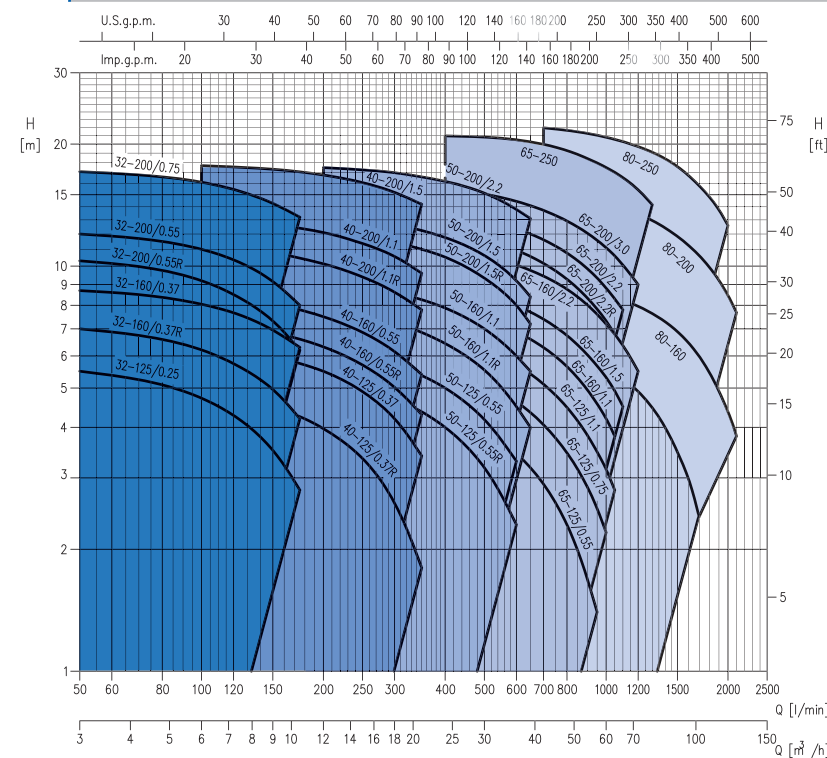
- Capacity up to 240 m³/h
- Total head up to 100 m
- Counterflanges on request
- Discharge nominal diameter up to DN 80
- Impeller nominal diameter up to 250 mm

- APPLICATIONS**
- Water supply for civil, agricultural and industrial systems
 - Pressure boosting
 - Fire-fighting systems
 - Heating and air-conditioning systems
 - Handling industrial liquids
 - Irrigation
 - Cooling towers
 - Swimming pools
 - Draining and washing systems

NEW 3 SERIES 80



2 POLES PERFORMANCE RANGE



4 POLES PERFORMANCE RANGE

www.ebara.eu



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EBARA PUMPS EUROPE S.p.A. reserves the right to make modifications without prior notice; all specifications could be subject to change

Cod. 479705376 05/07



3 SERIES 80



Range enlargement

3 SERIES 80

NEW

EBARA