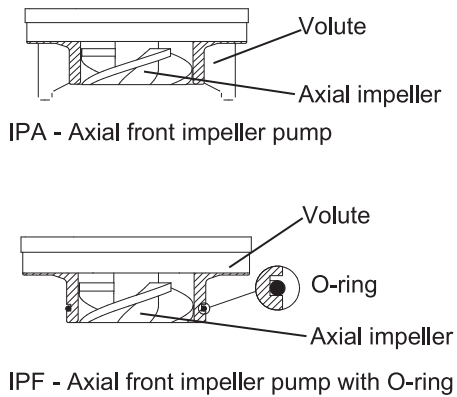
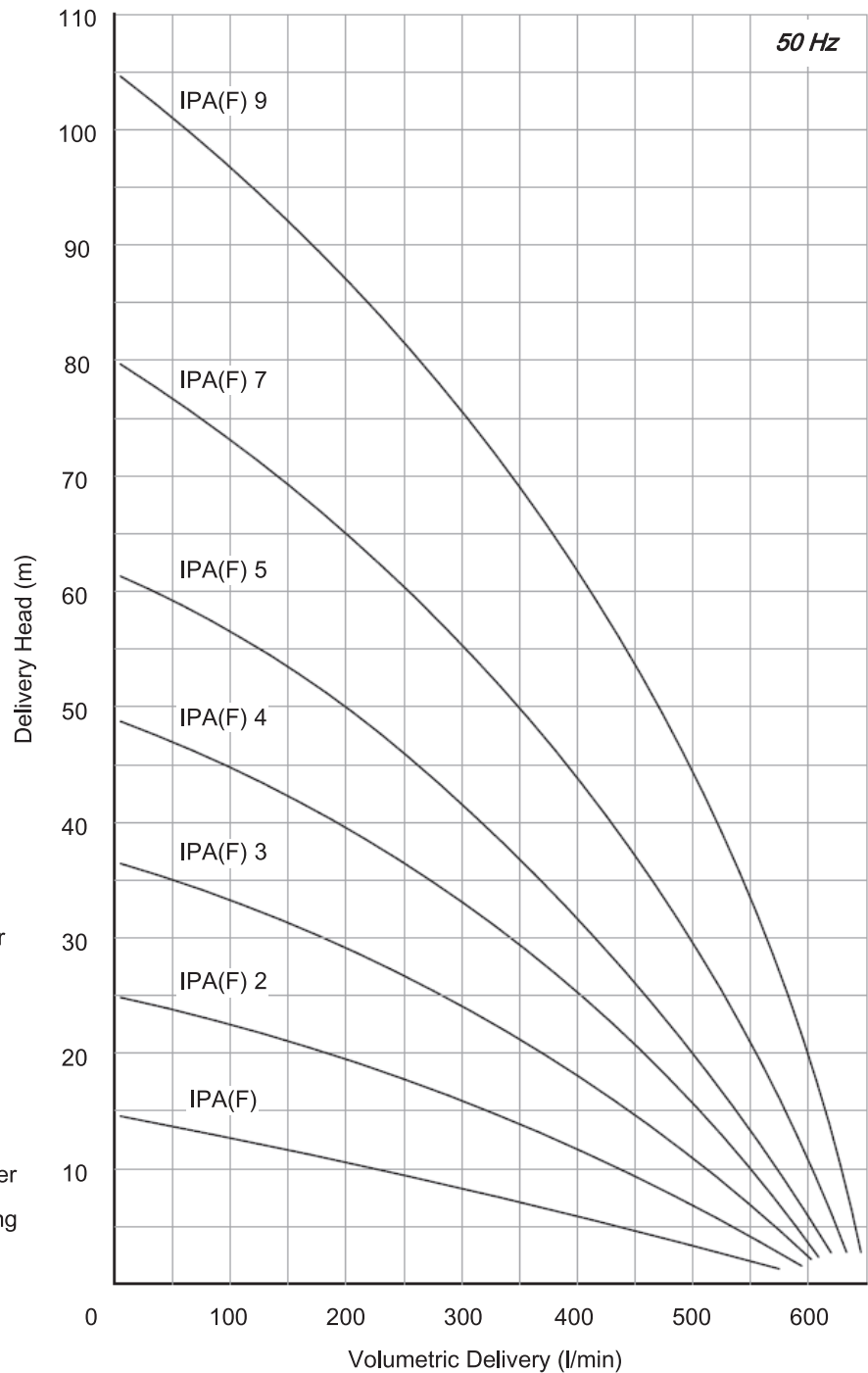


IPA/IPF PUMP



Performance Curve



IPA PUMP

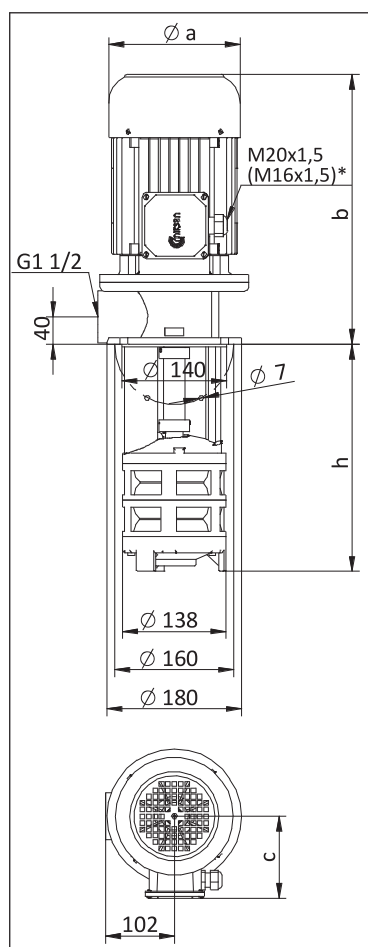
Applications:

- IPA pump has an additional axial impeller,
- It is used for pumping the liquid foam resulting from high-speed machining operations,
- Pumping metal chips together with the fluid by mixing,
- Filtration systems,
- Hot liquid applications,
- IPA Pumps are used for pumping of cutting / cooling fluids in circulation systems.

Fluid Specifications:

- Coolants,
- Cutting oils,
- Grinding oils,
- Water,
- Fluid temperature 0...80 °C
- Kinematic viscosity 1...90 mm²/s

DIMENSIONS & NOMINAL VALUES



* M16x1,5 cable gland is used on IPA(F) 1 pump.

** The performance curves are based on 1 mm²/s (cSt) kinematic viscosity values and 997 kg/m³ density

*** Curve tolerance according to ISO 9906:2012 Grade 3B.

TYPE	Depth of immersion h (mm)	a b c			Weight kg	Power		Voltage	Frequency	Rated current	Speed
		mm				kW	V(Δ/Y)				
		IPA(F) /210	210	157	319	118	24.5	1.1	230/400	50	4.16/2.4
IPA(F) /280	280				26.0						
IPA(F) /360	360				27.0						
IPA(F) /450	450				28.5						
IPA(F) /560	560				30.5						
IPA(F) -2/210	210	176	363	139	34.5	2.2	230/400	50	7.79/4.5	2905	
IPA(F) -2/270	270				35.0						
IPA(F) -2/340	340				36.0						
IPA(F) -2/420	420				37.0						
IPA(F) -2/510	510				38.5						
IPA(F) 2/620	620				40.5						
IPA(F) -3/270	270	194	398	150	47.0	4.0	230/400	50	13.68/7.9	2900	
IPA(F) -3/330	330				47.5						
IPA(F) -3/400	400				48.5						
IPA(F) -3/480	480				50.0						
IPA(F) -3/570	570				51.5						
IPA(F) -3/680	680				53.5						
IPA(F) -4/330	330	218	412	163	54.5	5.5	230/400	50	17.15/9.9	2900	
IPA(F) -4/390	390				55.0						
IPA(F) -4/460	460				56.0						
IPA(F) -4/540	540				57.5						
IPA(F) -4/630	630				59.0						
IPA(F) -4/740	740				61.0						
IPA(F) -5/390	390	218	412	163	58.0	5.5	230/400	50	17.15/9.9	2900	
IPA(F) -5/450	450				58.5						
IPA(F) -5/520	520				59.5						
IPA(F) -5/600	600				61.0						
IPA(F) -5/690	690				62.5						
IPA(F) -7/510	510	258	495	177	89.0	7.5	400Δ	50	14.0	2930	
IPA(F) -7/570	570				89.5						
IPA(F) -7/640	640				90.5						
IPA(F) -7/720	720				92.0						
IPA(F) -7/810	810				93.5						
IPA(F) -9/630	630	258	495	177	105.5	11.0	400Δ	50	19.7	2930	
IPA(F) -9/690	690				106.0						
IPA(F) -9/760	760				107.0						

IPF PUMP

Applications:

- IPF pumps are used for pumping of liquid from vacuum zone on filtration systems. The pump works at vacuum zone, therefore it has an O-ring at the pump inlet. It also has an additional axial front impeller.

Fluid Specifications:

- Coolants,
- Cutting oils,
- Grinding oils,
- Water,
- Fluid temperature 0...80 °C
- Kinematic viscosity 1...90 mm²/s

Materials:

Pump body	: Cast iron - DIN GG 25
Volute	: Cast iron - DIN GG 25
Impeller	: Investment casting steel - AISI 4140 (DIN 42CrMo4)
Axial (front) impeller	: Investment casting steel - AISI 4140 (DIN 42CrMo4)
O-ring	: Viton
Pump shaft	: Engineering steel - AISI 1040 (DIN C35)
Electric motor	: 3 phase induction motor IE3 - 2 pole Protection degree IP 54