

Technical Information

GRP16 D



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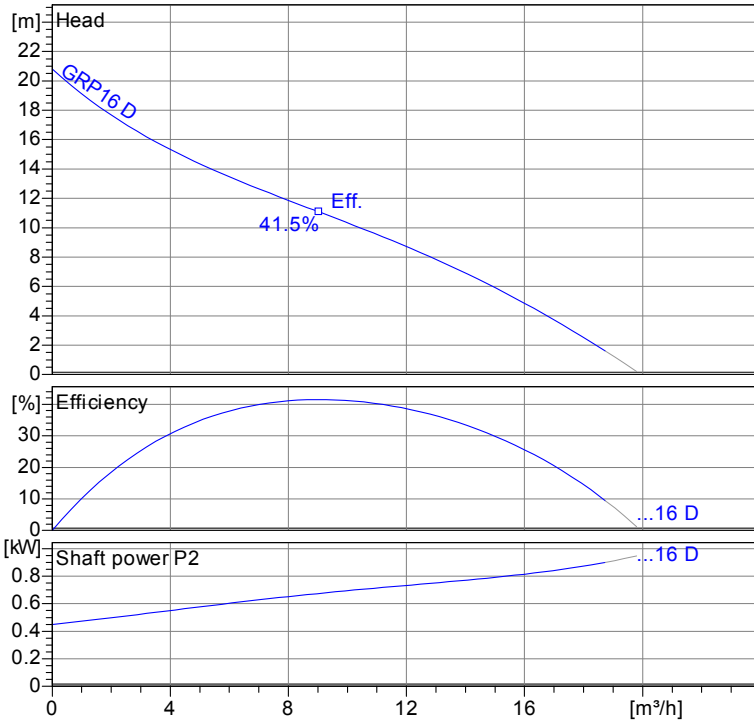
Operating data	
Flow	0 m ³ /h
Head	0 m
Shaft power P2	
Pump efficiency	s %
Required pump NPSH	
Pumpe type	Single head pump
No. of pumps	1
Fluid	Water, clean

Pump	
Pump Code	GRP16 D
Impeller	Vane impeller with cutter sys.
Impeller size	135 mm
Solid size	s
Discharge port	R 2" AG
Suction port	s

Motor	
Rated voltage	400 V
Frequency	50 Hz Hz
Rated power P2	0.9 kW
Rated speed	2900 rpm
Number of poles	2
Efficiency	70 % %
Rated current	2.5 A
Degree of protection	IP 68

Materials	
Motor housing	Grey cast iron GG25
Motor bearing cover	Grey cast iron EN-GJL-250
Pump housing	Grey cast iron GG25
Impeller	Grey cast iron GG25
Cutting system	Stainless steel 1.4122
Motor shaft	Stainless steel 1.4104
O-Rings	Nitrile Rubber
Bolts	Stainless steel
Mechanical seal on medium side	SiC / SiC
Shaft seal (motor side)	Nitrile Rubber
Lower Bearing	Double row angular ball bearing
Upper Bearing	Deep Groove Ball Bearing

Testnorm: ISO9906 Sect. 4.4.2



Wet well installation with coupling kit GRP16
Dimensions in mm,

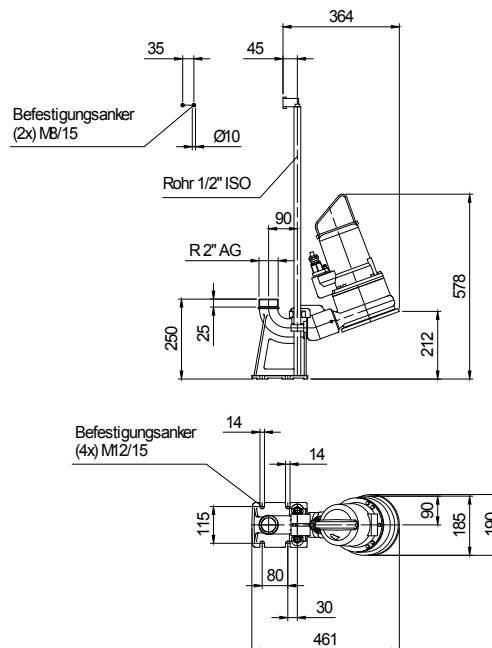


Table Dimensions (mm)

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Performance Curve

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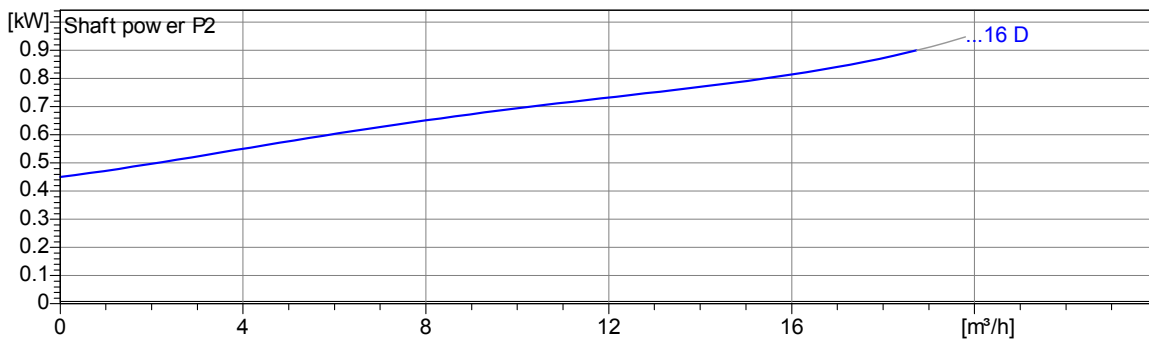
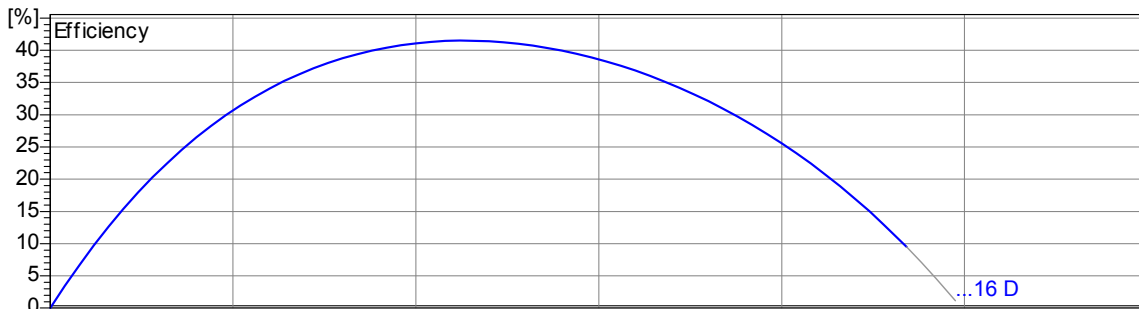
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Impeller						
Impeller type: Vane impeller with cutter sys.	Solid size	Ø:	Max. Ø: 135 mm	Min. Ø: 135 mm	Sel. Ø: 135 mm	

Operating data					
Speed: 2900 rpm	Frequency: 50 Hz	Duty point: Q = 0 m³/h	H = 0 m	Shaft power P2:	Discharge port: R 2" AG

Power data referred to:
Water, clean [100%]; 20°C; 998.3kg/m³; 1.005mm²/s

Testnorm: ISO9906 Sect. 4.4.2



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Dimensions

GRP16 D

Wet well installation with coupling kit GRP16
 Dimensions in mm, le

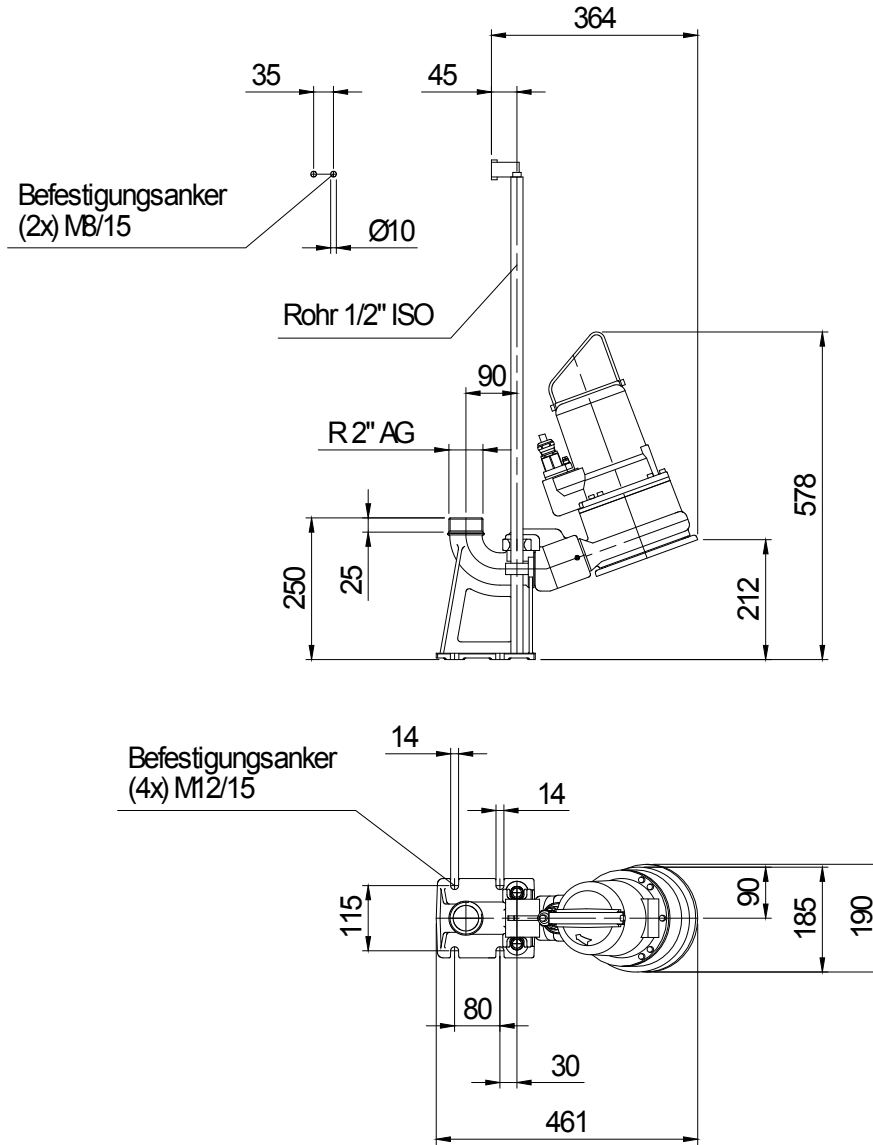


Table Dimensions (mm)

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Operating data					
Flow	0 m ³ /h	m ³ /h	Head	0	m
Shaft power P2		kW	Geodetic head	0	m
Pump efficiency	s	%	Required pump NPSH		m
Pumpe type	Single head pump		No. of pumps	1	
Fluid	Water, clean		Temperature	20 °C	
Density	998.3	kg/m ³	Kin. viscosity	1.005	mm ² /s

Pump					
Pump Code	GRP16 D		Speed	2900	rpm
Suction port			Head	Max.	20.8 m
Discharge port	R 2" AG			Min.	1.6 m
Impeller type	Vane impeller with cutter s		Flow	Max.	18.7 m ³ /h
Solid size			Pump efficiency max.	41.5 %	
Impeller Ø	135	mm	Required rated power max. P2	0.9 kW	

Motor					
Motor version	Submersible motor		Insulation class	H	
Motor name	AM 120TM.1,7/2 D		Degree of protection	IP 68	
Frequency	50	Hz	Temperature class		
Rated power P1	1.3	kW			
Rated power P2	0.9	kW	Explosion protection		
Rated speed	2900	rpm	Efficiency at % rated power	100%	70 %
Rated voltage	400	V 3~		75%	67 %
Rated current	2.5	A		50%	65 %
Starting current, direct starting	15.0	A	cos phi at % rated power	100%	0.74
Starting current, star-delta	5.1	A		75%	0.66
Starting mode	Directly			50%	0.56
Power cable	7G1,5		Control cable		
Type of power cable	H07RN-F		Type of control cable		
Cable length	10 m		Service factor	1.15	
Shaft seal	Mechanical seal on medium side		SiC / SiC		
	Shaft seal (motor side)		Nitrile Rubber		
Bearing	Lower Bearing		Double row angular ball bearing		
	Upper Bearing		Deep Groove Ball Bearing		
Remarks	s				

Materials / Weight			
Motor housing	Grey cast iron GG25	Motor shaft	Stainless steel 1.4104
Pump housing	Grey cast iron GG25	Bolts	Stainless steel
Motor bearing cover	Grey cast iron EN-GJL-250	O-Rings	Nitrile Rubber
Impeller	Grey cast iron GG25		
Cutting system	Stainless steel 1.4122		
Weight aggregat	27 kg		

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