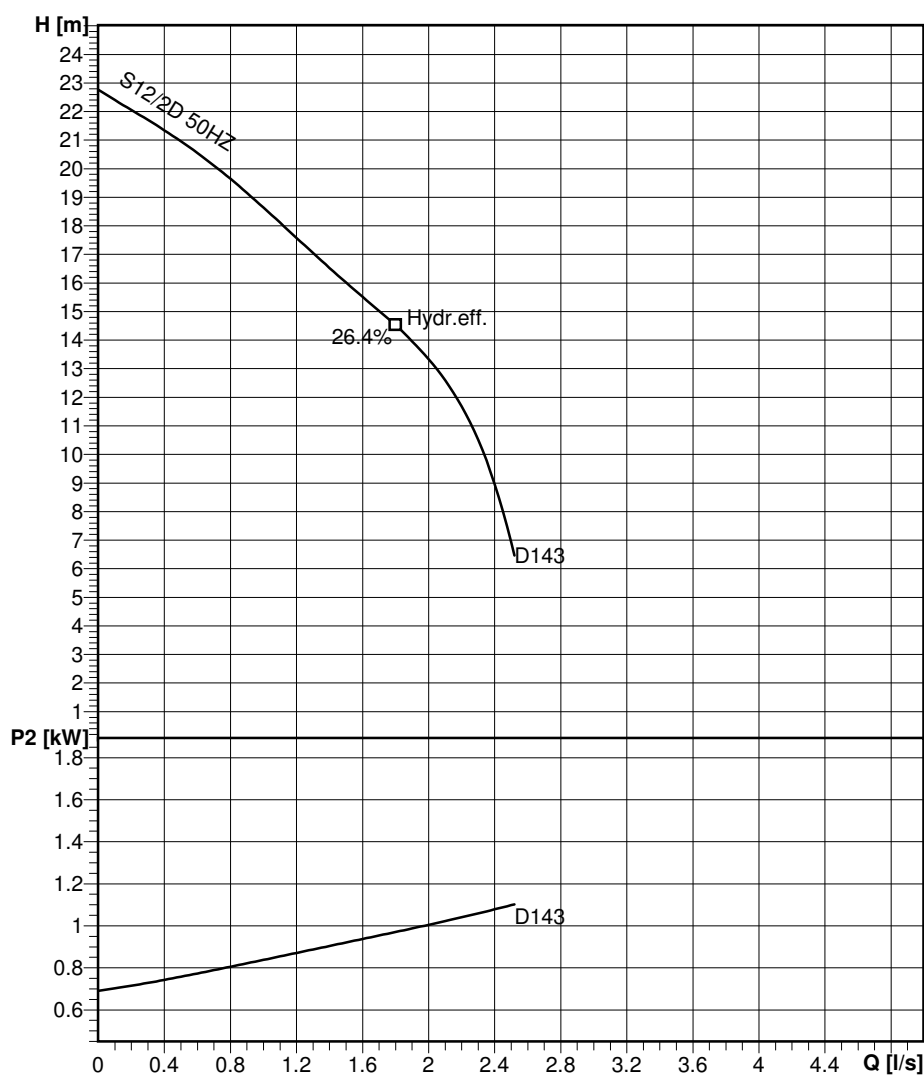


PIR S12/2D 50HZ

Testnorm
ISO 9906 Gr 2 Annex A1/A2



2005-04-05

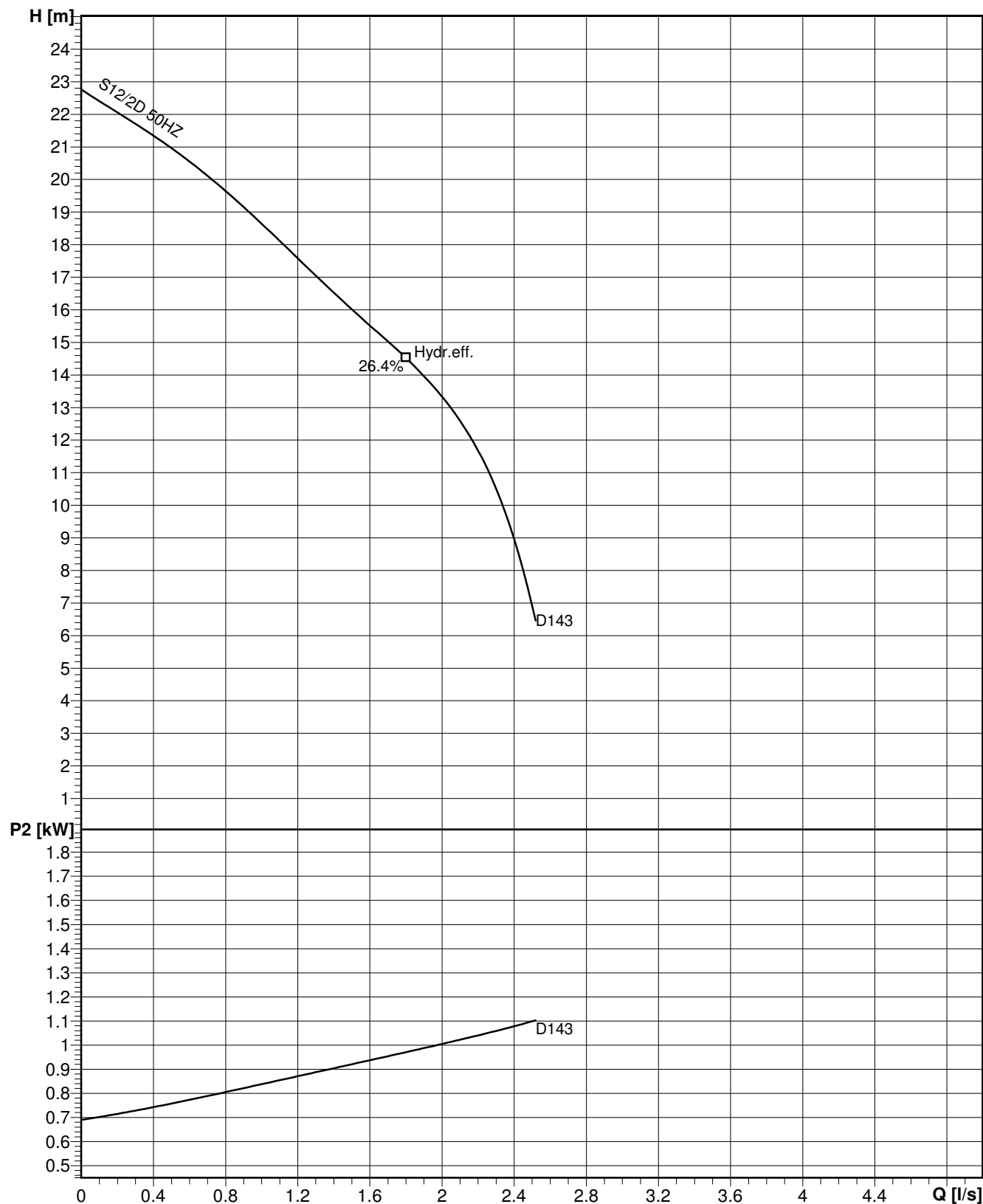
Operating data specification			
Flow	2.21 l/s	Head	11.5 m
Efficiency	24 %	Shaft power	1.04 kW
Fluid	Water	Temperature	277 K
Nature of system	Single head pump	No. of pumps	1
Pump data			
Type	PIR S12/2D 50HZ	Make	ABS
Series	PIRANHA	Impeller	Macerator
N° of vanes	4	Impeller size	143 mm
Suction port	--	Discharge port	G1 1/4"
Motor data			
Rated voltage	400 V	Frequency	50 Hz
Rated power P2	1.2 kW	Nominal speed	2865 1/min
Number of poles	2	Efficiency	71.1 %
Power factor	0.74	Rated current	3.29 A
Starting current	19.1 A	Rated torque	4 Nm
Starting torque	17.3 Nm	Degree of protection	IP68
Insulation class	F		

Pump performance curves PIRANHA S D 50 HZ

Curve number

Reference curve
PIRANHA S 2P D

			Discharge G1¼"	Frequency 50 Hz
Density 1000 kg/m³	Viscosity 1.562 mm²/s	Testnorm ISO 9906 Gr 2 Annex A1/A2	Rated speed 2865 1/min	Date 2009-09-17
Flow 2.21 l/s	Head 11.5 m	Rated power 1.04 kW	Hydraulic efficiency 24 %	NPSH



Impeller size
143 mm

N° of vanes
4

Impeller
Macerator

Solid size

Revision 2005-04-05

PIR S12/2D 50HZ

Piranha

Sewage pumps with shredding action used for reliable and economical discharge of effluent under pressure, using small diameter discharge lines in communal schemes. For effluent removal from houses in rural areas where high ground must be overcome, or where only small diameter pipework can be laid, and for example removal from motorway service stations and camp sites, large construction sites, urban renewal and renovation of buildings. Pumped medium: sewage and other heavily polluted waste water.

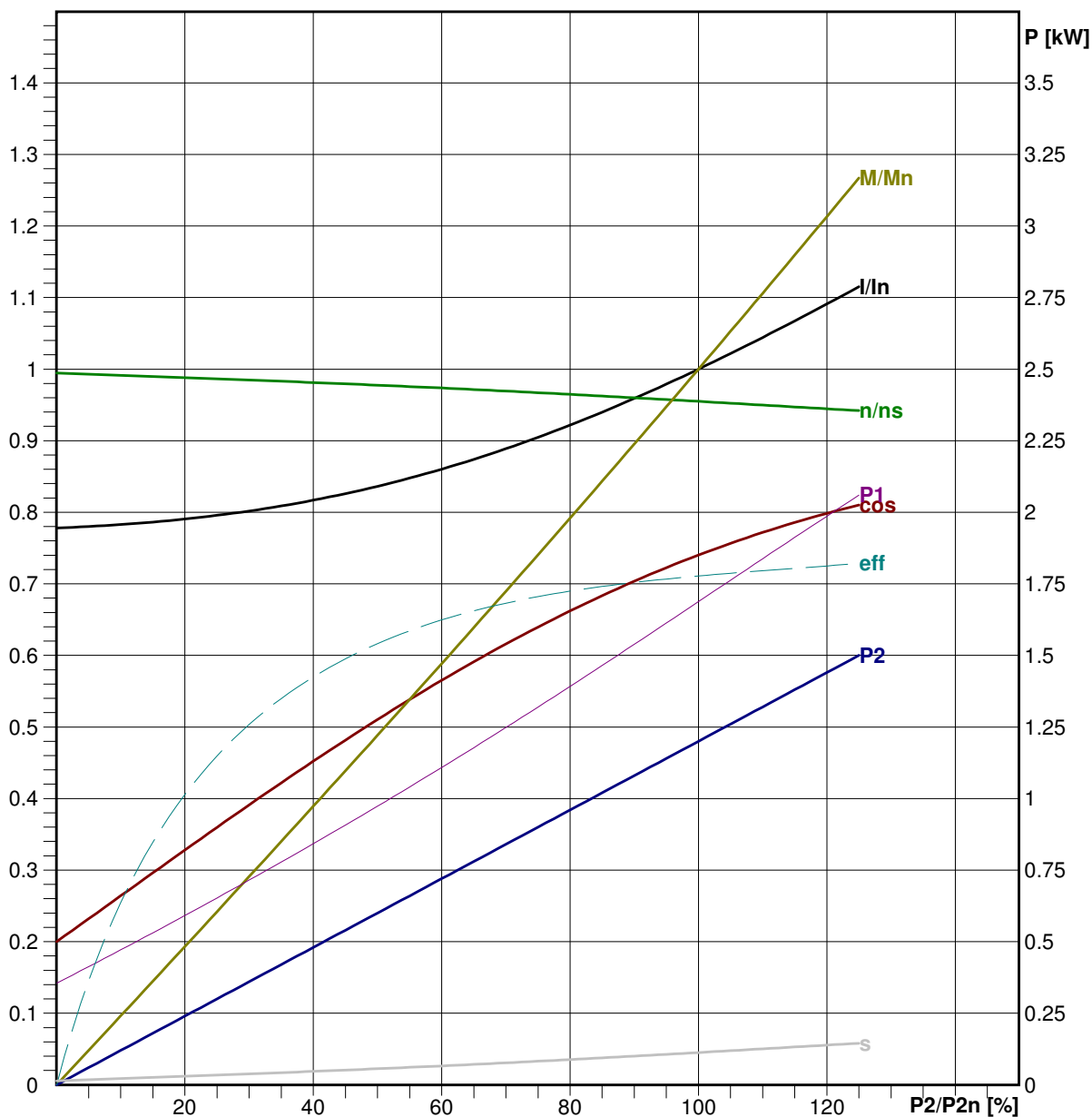
Capacity up to	30 m ³ /h
Head, max.	75 m

Type: PIR S12/2D 50HZ

Technical data

Delivery rate	: 2.21 l/s
Delivery head	: 11.5 m
Hydr. efficiency	: 24 %
Shaft power	: 1.04 kW
Speed	: 2865 1/min
Impeller type	: Macerator
Motor output	: 1.2 kW
Voltage	: 400 V
Frequency	: 50 Hz
Discharge outlet	: G1 1/4"

Rated power 1.2 kW	Service factor	Nominal speed 2865 1/min	Number of poles 2	Rated voltage 400 V	Date 2009-09-17
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Loading	No load	25 %	50 %	75 %	100 %	125 %
P1 [kW]	0.3548	0.6528	0.9733	1.319	1.688	2.059
P2 [kW]	0	0.3	0.6	0.9	1.2	1.5
I [A]	2.56	2.619	2.752	2.978	3.291	3.67
eff [%]	0	45.96	61.65	68.21	71.1	72.84
cos	0.2	0.3598	0.5104	0.6396	0.7402	0.81
n [1/min]	2983	2959	2933	2901	2865	2826
M [Nm]	0	0.9681	1.954	2.962	4	5.069
s [%]	0.5676	1.362	2.243	3.291	4.505	5.799

Tolerance according to VDE 0530 T1 12.84 for rated power

Starting current 19.1 A	Starting torque 17.3 Nm	Moment of inertia		
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