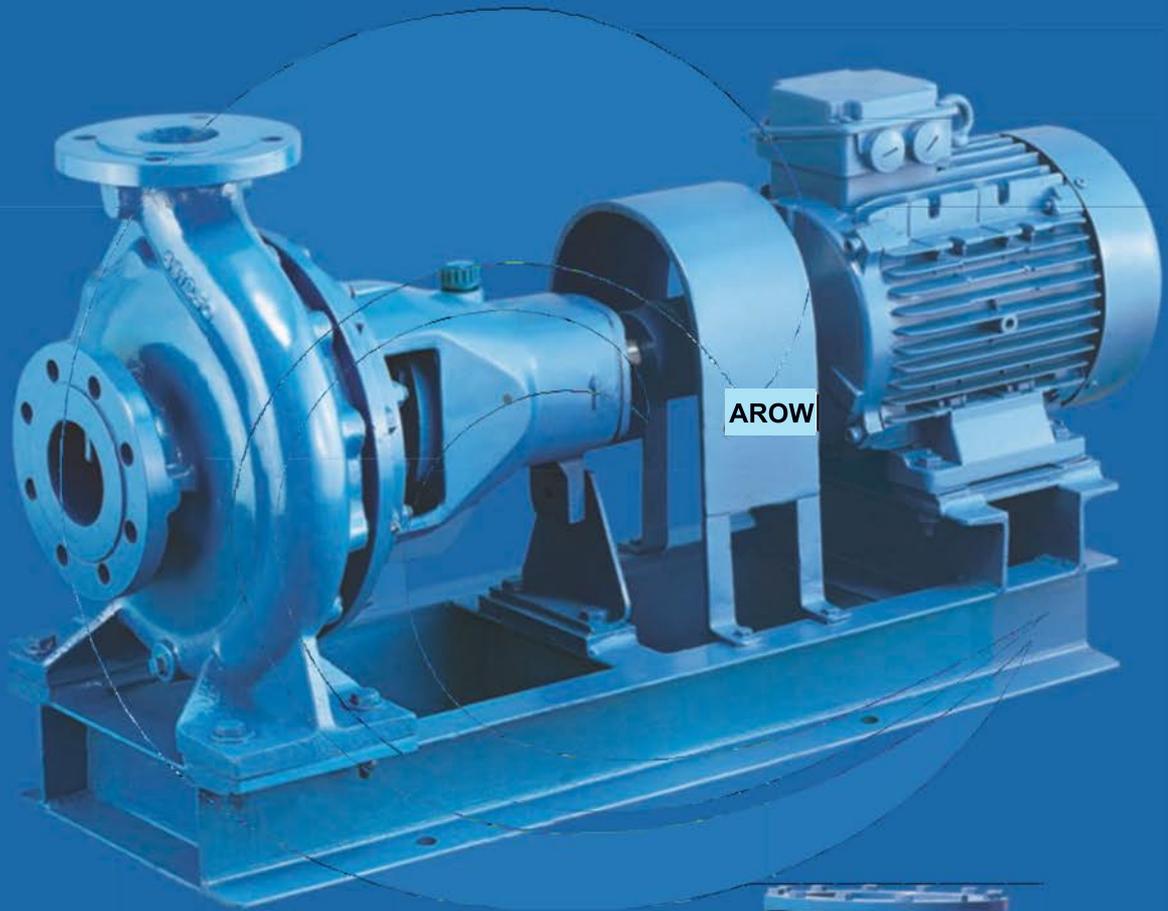


END SUCTION CENTRIFUGAL PUMPS



End Suction Centrifugal Pumps

AROW End suction pumps are single stage centrifugal, non-self priming, volute pumps. These pumps features horizontal shaft components with axial suction and impellers and radial discharge ports. Pumps volute chamber and impellers are carefully designed to give the best possible and suction lift characteristics.

Most modern and highly sophisticated machinery and technology are employed in the manufacture of these pumps using quality raw material, dynamically balanced impellers, seal and bearings to ensure long life.



FEATURES

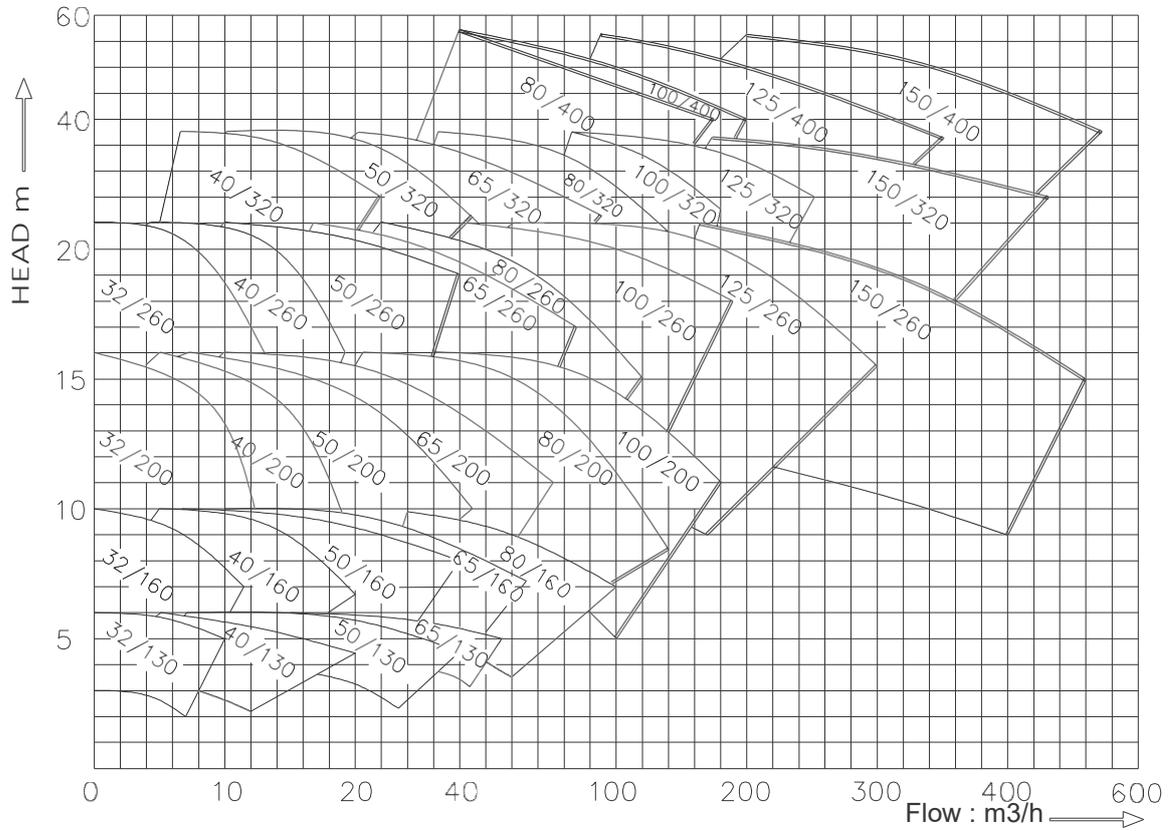
- Designed to allow interchangeability of their component between all individual pump sizes.
- Minimizes shaft deflection maximizes bearing and mechanical seal life.
- Heavy duty bearing ensures long life.
- Back pull out design facilitates dismantling the pump without disconnecting the pump casing from the pipes.
- Dimensions and characteristics according to DIN 24255 standards (On request - ISO 2858 standards pumps can be supplied).
- Available both in mechanical seal and soft packed stuffing box design.

APPLICATIONS

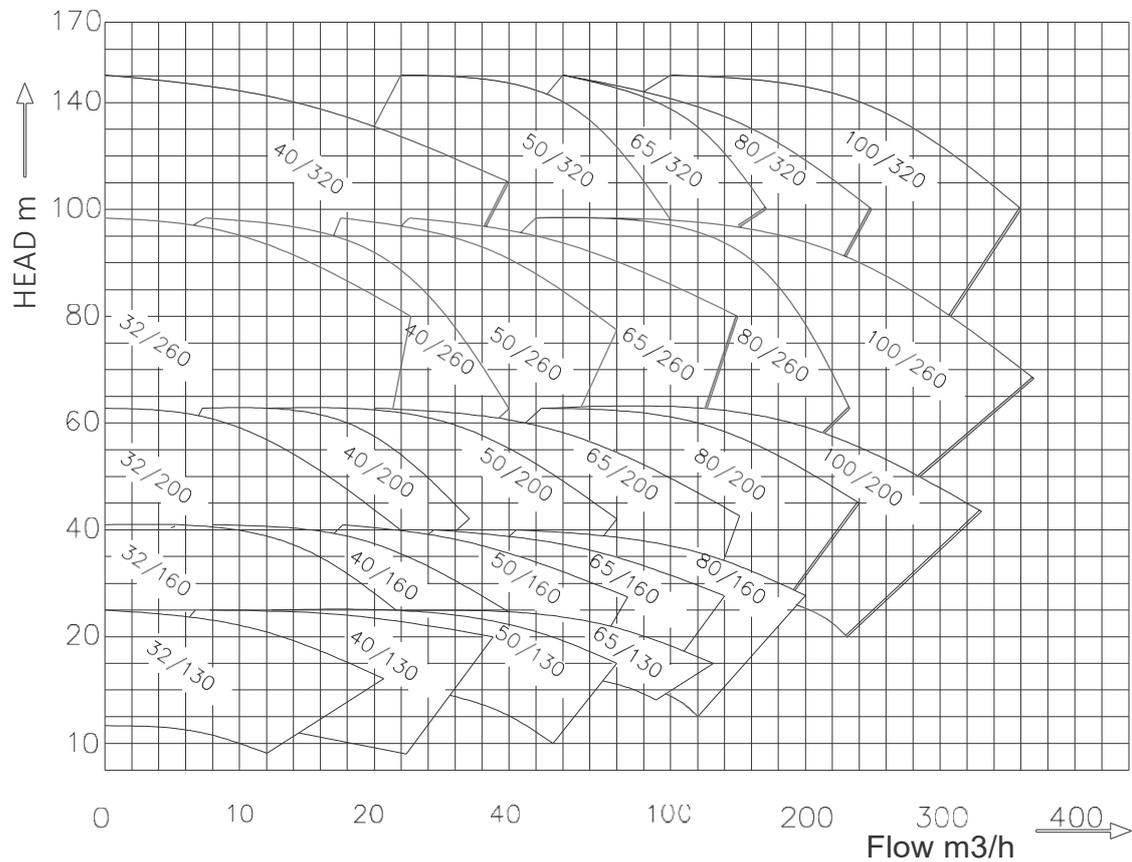
- Water supply
- Irrigation
- Pressure boosting
- Fireprotection
- Heating and air conditioning systems
- Circulation and transfer of clean, chemically non-aggressive water and liquids
- General industrial services
- Water supply to swimming pool, fountains.

GROUP PERFORMANCE CURVES

SPEED :1450 RPM

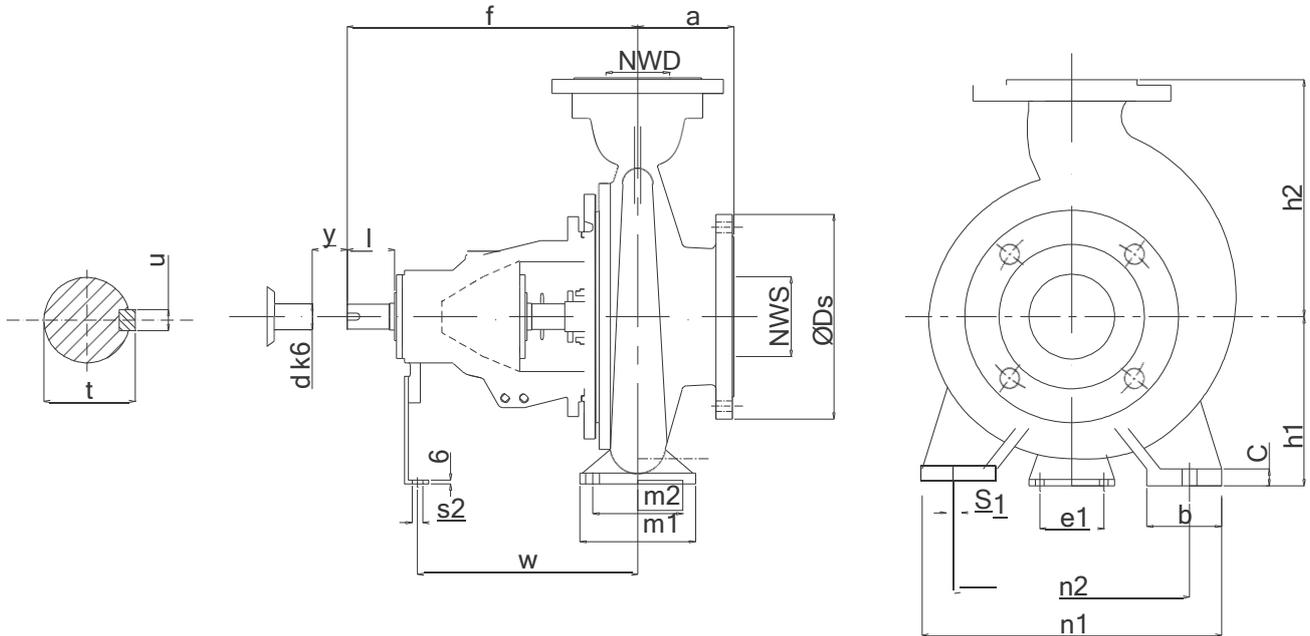


SPEED :2900 RPM

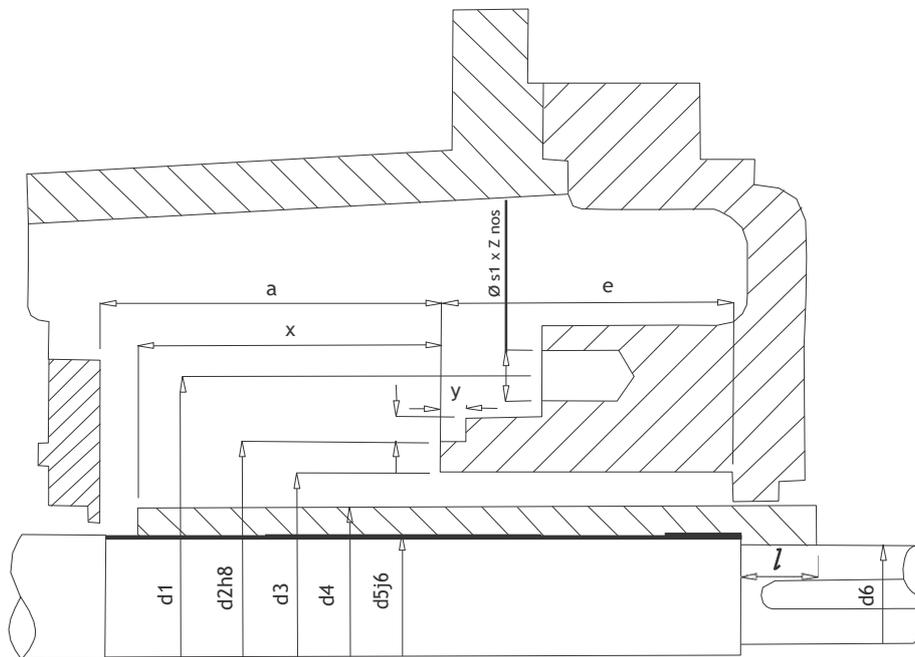


GENERAL INFORMATION - ESAR SERIES

OVERALL DIMENSIONAL DRAWING



STUFFING BOX DETAILS



Centrifugal pumps with volute casing ND10/16 DIN 2532/ 2533 single stage end suction with bearing housing, Dimensions in accordance with DIN 24255.

Note :- Pump with impeller OD above 260mm at 2900 rpm not recommended. On specific demand, pump can be supplied with the strengthened shaft and bearing to run at 2900 rpm.

GENERAL INFORMATION - ESAR SERIES

OVERALL DIMENSIONS

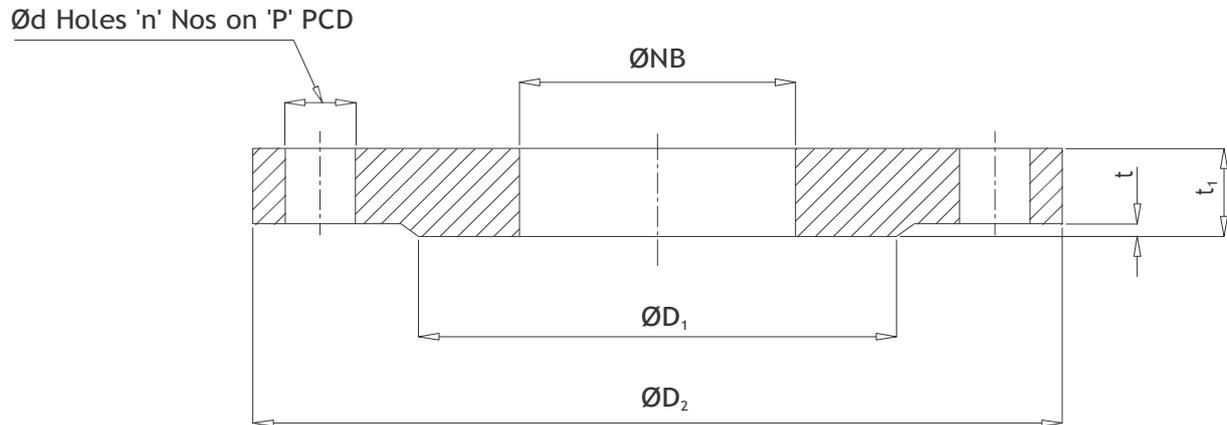
PUMP SIZE	SHAFT SIZE	PUMP DIMENSION															SHAFT END					DISTANCE y	Pump Weight (kg)
		NWD	NWS	a	f	h1	h2	b	c	m1	m2	n1	n2	s1	e1	s2	w	d	l	t	u		
32/130	15W	32	50	80	360	112	140	50	14	100	70	190	140	14	100	14	267	24	50	27	8	140	45
32/160	15W	32	50	80	360	132	160	50	14	100	70	240	190	14	100	14	267	24	50	27	8	140	50
32/200	15W	32	50	80	360	160	180	50	14	100	70	240	190	14	100	14	267	24	50	27	8	140	60
32/260	15W	32	50	100	360	180	225	65	14	125	95	320	250	14	100	14	267	24	50	27	8	140	74
40/130	15W	40	65	80	360	112	140	50	14	100	70	210	160	14	100	14	267	24	50	27	8	140	50
40/160	15W	40	65	80	360	132	160	50	14	100	70	240	190	14	100	14	267	24	50	27	8	140	58
40/200	15W	40	65	100	360	160	180	50	14	100	70	265	212	14	110	14	267	24	50	27	8	140	66
40/260	15W	40	65	100	360	180	225	65	14	125	95	320	250	14	110	14	267	24	50	27	8	140	85
40/320	18W	40	65	125	470	200	250	65	14	125	95	345	280	14	110	14	342	32	80	35	10	140	-
50/130	15W	50	65	100	360	132	160	50	14	100	70	240	190	14	110	14	267	24	50	27	8	140	60
50/160	15W	50	65	100	360	160	180	50	14	100	70	265	212	14	110	14	267	24	50	27	8	140	61
50/200	15W	50	65	100	360	160	200	50	14	100	70	265	212	14	110	14	267	24	50	27	8	140	68
50/260	15W	50	65	100	360	180	225	65	14	125	95	320	250	14	110	14	267	24	50	27	8	140	89
50/320	18W	50	80	125	470	225	280	65	14	125	95	345	280	14	110	14	342	32	80	35	10	140	-
65/130	15W	65	80	100	360	160	180	65	14	125	95	280	212	14	110	14	267	24	50	27	8	140	65
65/160	15W	65	80	100	360	160	200	65	14	125	95	280	212	14	110	14	267	24	50	27	8	140	69
65/200	15W	65	80	100	360	180	225	65	14	125	95	320	250	14	110	14	267	24	50	27	8	140	81
65/260	18W	65	100	100	470	200	250	80	16	160	120	360	280	18	110	14	342	32	80	35	10	140	107
65/320	18W	65	80	125	470	225	280	80	16	160	120	400	315	18	110	14	342	24	50	35	10	140	132
80/160	15W	80	100	125	360	180	225	65	14	125	95	320	250	14	110	14	267	24	50	27	8	140	79
80/200	18W	80	100	125	470	180	250	65	14	125	95	345	280	14	110	14	342	32	80	35	10	140	104
80/260	18W	80	100	125	470	200	280	80	16	160	120	400	315	18	110	14	342	32	80	35	10	140	122
80/320	18W	80	100	125	470	250	315	80	16	160	120	400	315	18	110	14	342	32	80	35	10	140	159
80/400	22w	80	125	140	530	280	355	100	18	200	150	500	400	23	110	14	370	42	110	45	12	140	-
100/200	18W	100	125	125	470	200	280	80	16	160	120	360	280	18	110	14	342	32	80	35	10	140	99
100/260	18W	100	125	140	470	225	280	80	16	160	120	400	315	18	110	14	342	32	80	35	10	140	130
100/320	18W	100	125	140	470	250	315	80	16	160	120	400	315	18	110	14	342	32	80	35	10	140	169
100/400	22W	100	125	140	530	280	355	100	18	200	150	500	400	23	110	14	370	42	110	45	12	140	221
125/260	18W	125	150	140	470	250	355	80	16	160	120	400	315	18	110	14	342	32	80	35	10	140	136
125/320	22W	125	150	140	530	280	355	100	18	200	150	500	400	23	110	14	370	42	110	45	12	140	197
125/400	22W	125	150	140	530	315	400	100	18	200	150	500	400	23	110	14	370	42	110	45	12	140	246
150/260	22W	150	200	160	530	280	400	100	18	200	150	500	400	23	110	14	370	42	110	45	12	140	197
150/320	22W	150	200	160	530	280	400	100	18	200	150	550	450	23	110	14	370	42	110	45	12	140	257
150/400	22W	150	200	160	530	315	450	100	18	200	150	550	450	23	110	14	370	42	110	45	12	140	300

All Dimensions are in mm

BEARING UNIT	a	e	d1	z x s1	d2	d3	d4 mm-in	d5	d6	∠	h	l	k
15 H	56	51	85	4XM10	62	48	32	24	20	14	21.6	6	10
18 H	70	64	100	4XM12	76	60	40	32	28	17	29.7	8	13
22H	80	64	110	4XM12	86	70	50	43	38	17	40.3	10	13

GENERAL INFORMATION - ESAR SERIES

FLANGE DIMENSIONS



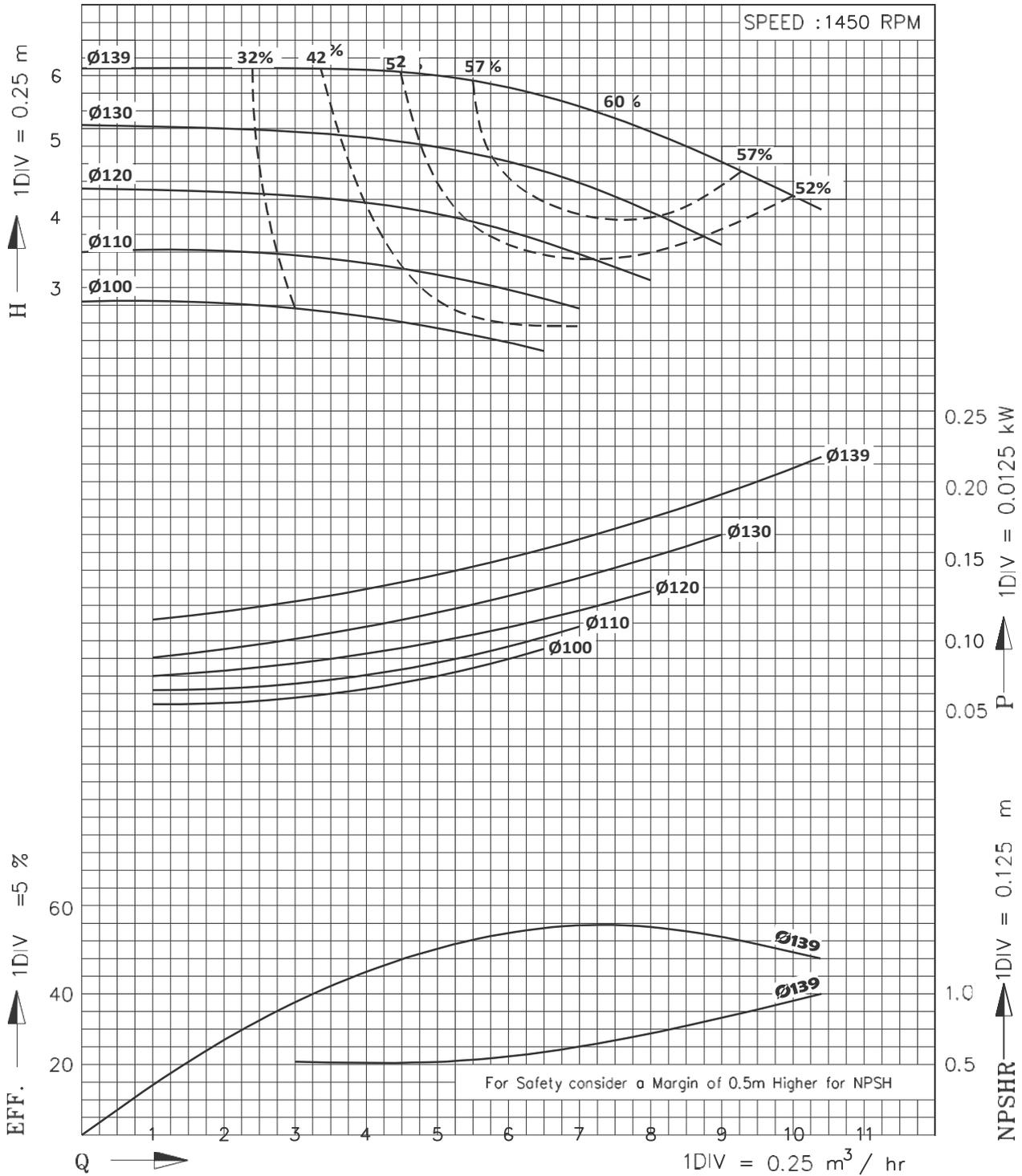
S.No.	NB in mm	ØD_1	ØD_2	t	t_1	Ød	n	p
01	25	68	115	2	16	14	4	85
02	32	78	140	2	18	18	4	100
03	40	88	150	3	18	18	4	110
04	50	102	165	3	20	18	4	125
05	65	122	185	3	20	18	4	145
06	80	138	200	3	22	18	8	160
07	100	158	220	3	24	18	8	180
08	125	188	250	3	26	18	8	210
09	150	212	285	3	26	22	8	240
10	200	268	340	3	30	22	12	295
11	250	320	405	3	32	26	12	355
12	300	378	460	4	32	26	12	410
13	350	438	520	4	36	26	16	470
14	400	490	580	4	38	30	16	525

PERFORMANCE CURVE

Model : ESAR-32/130

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 50 x 32

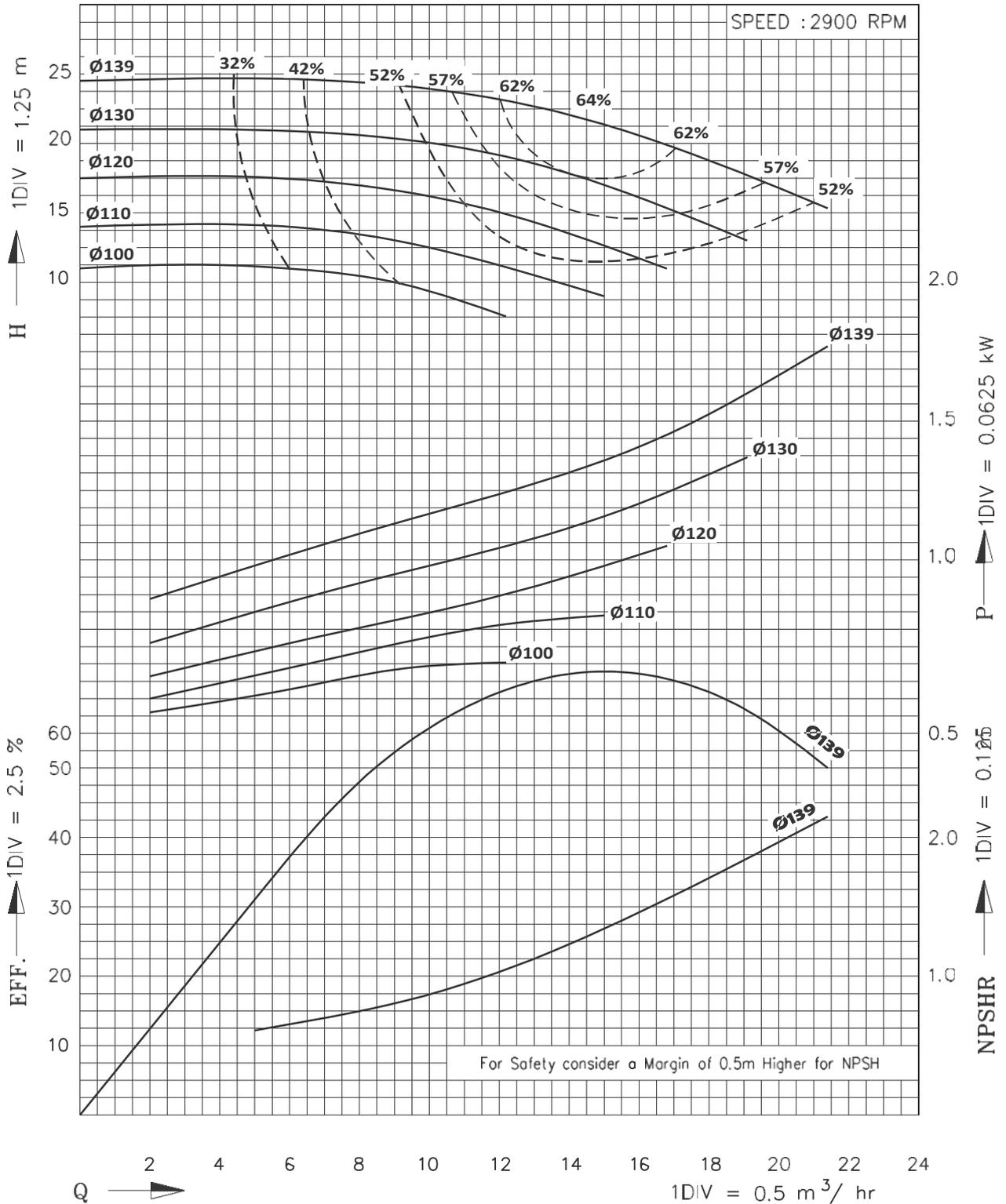


PERFORMANCE CURVE

Model : **ESAR-32/130**

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : **50 x 32**

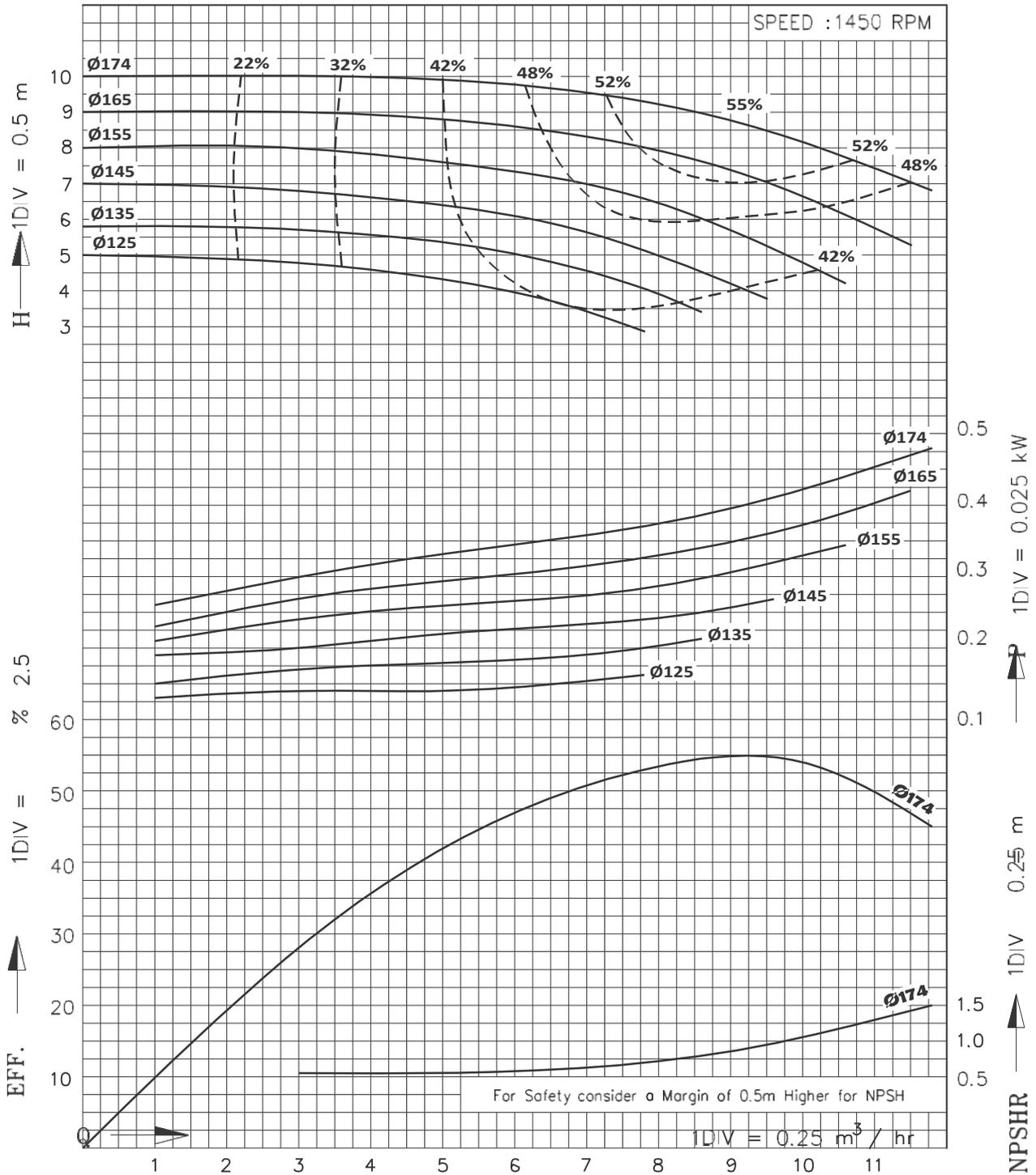


PERFORMANCE CURVE

Model : ESAR-32/160

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 50 x 32

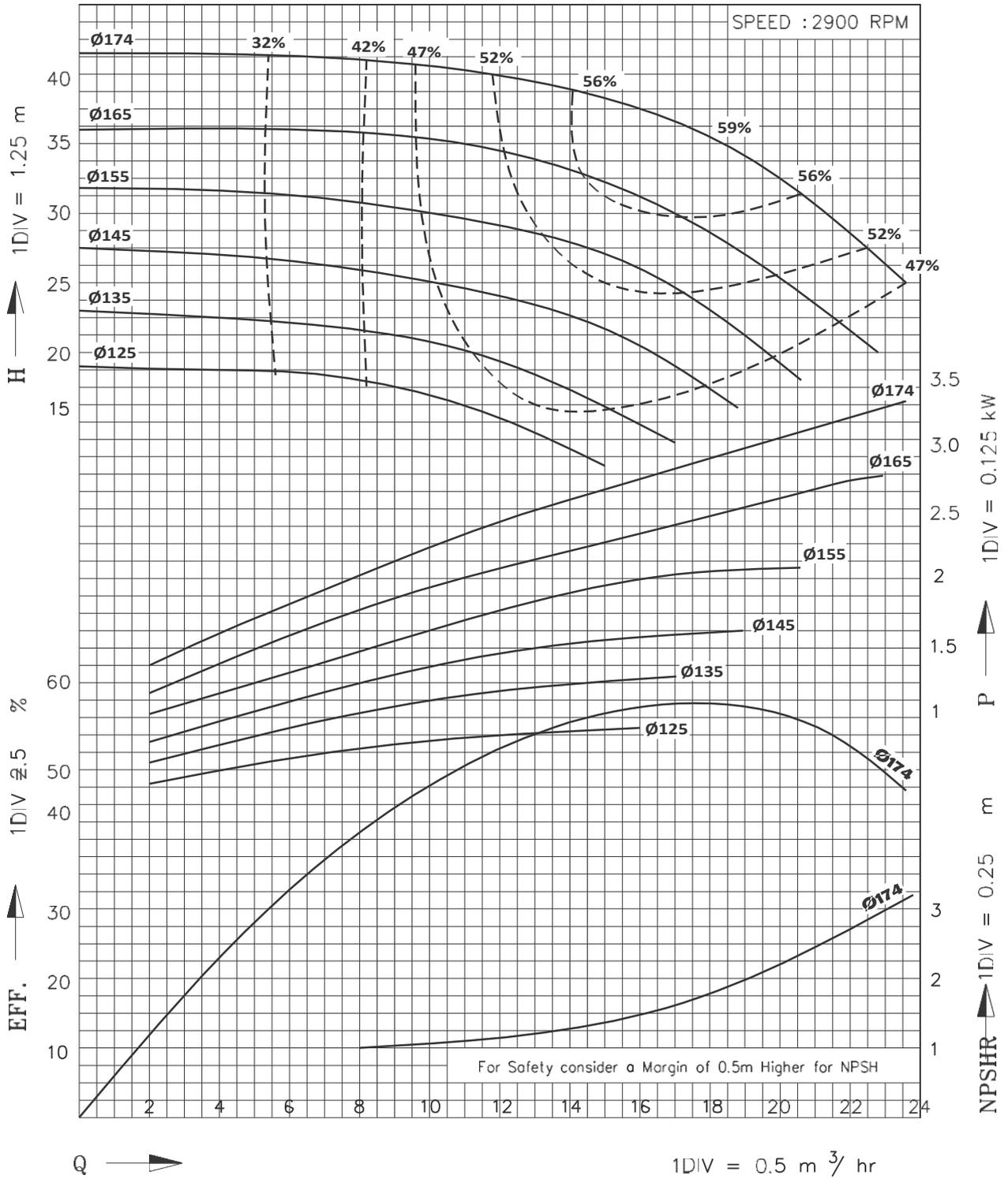


PERFORMANCE CURVE

Model : ESAR-32/160

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 50 x 32

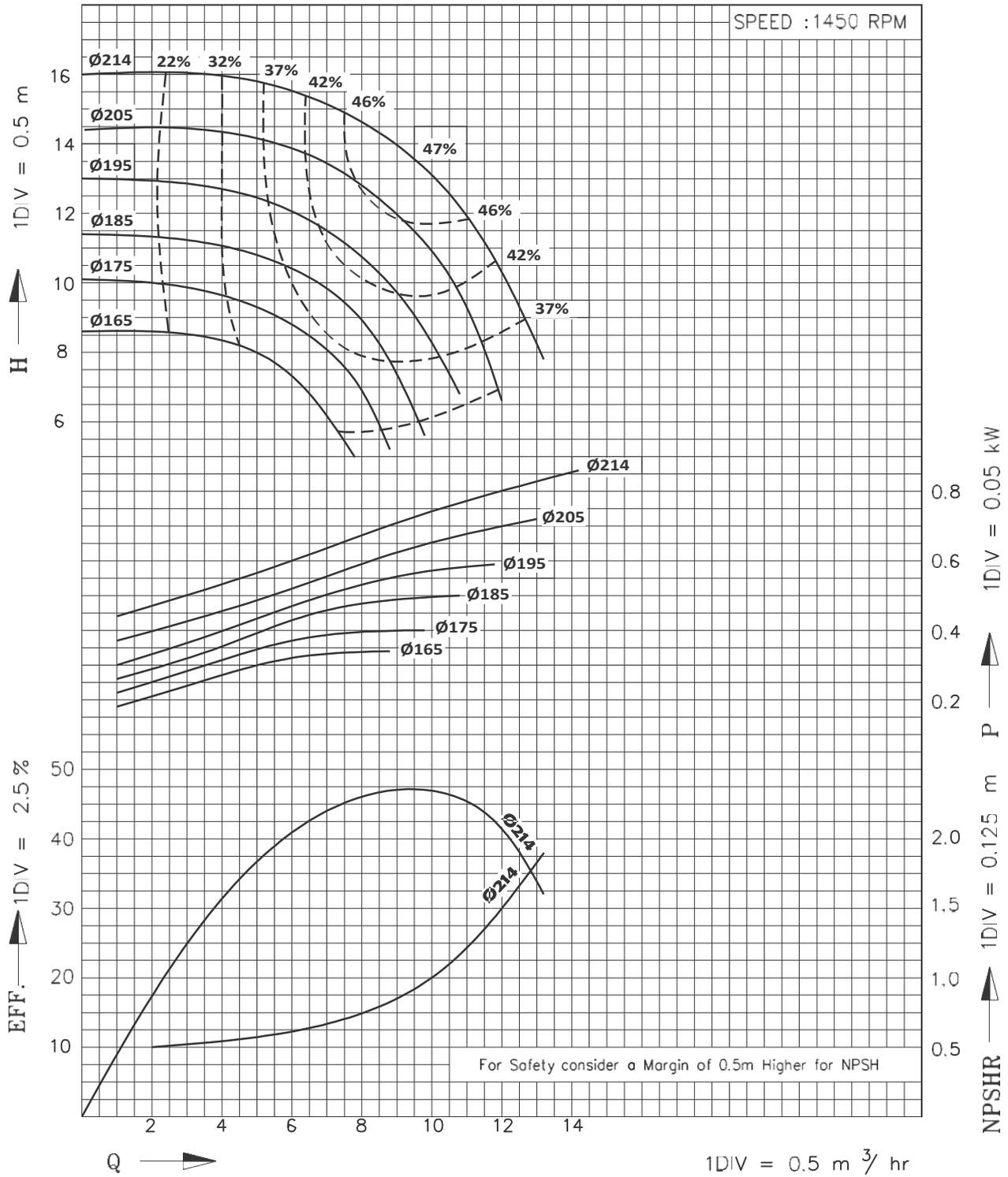


PERFORMANCE CURVE

Model : ESAR-32/200

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 50 x 32

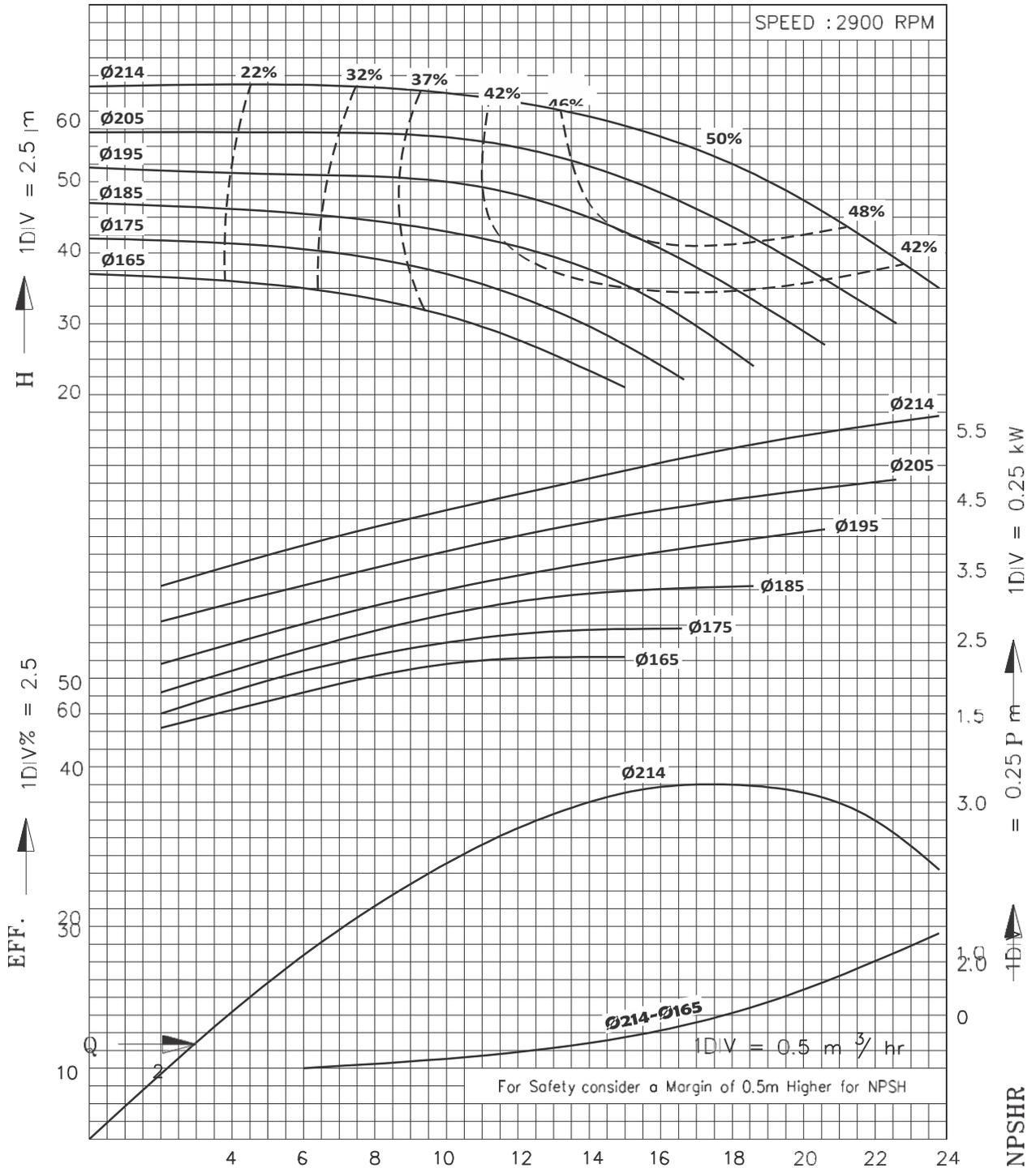


PERFORMANCE CURVE

Model : ESAR-32/200

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 50 x 32

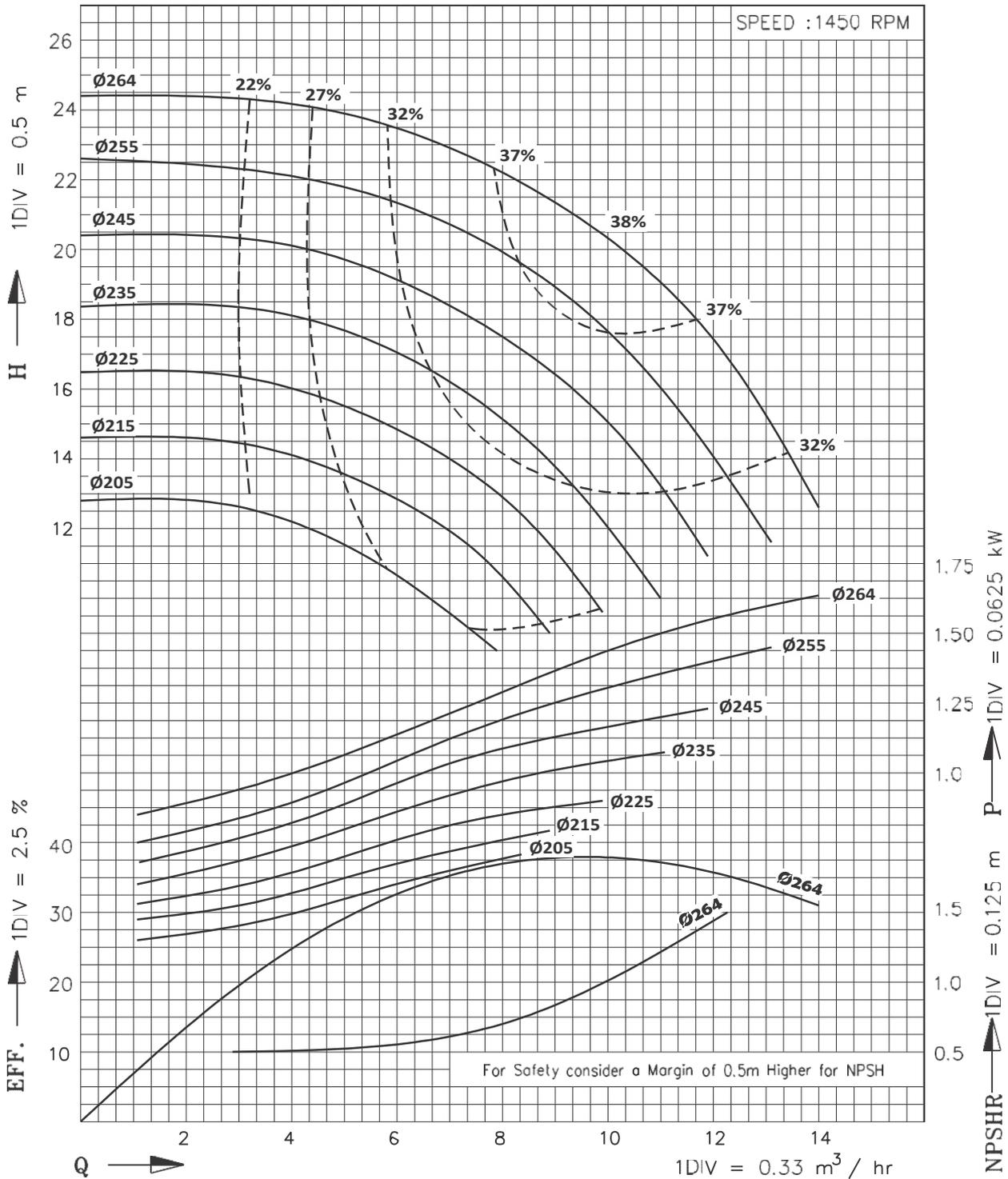


PERFORMANCE CURVE

Model : ESAR-32/260

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 50 x 32

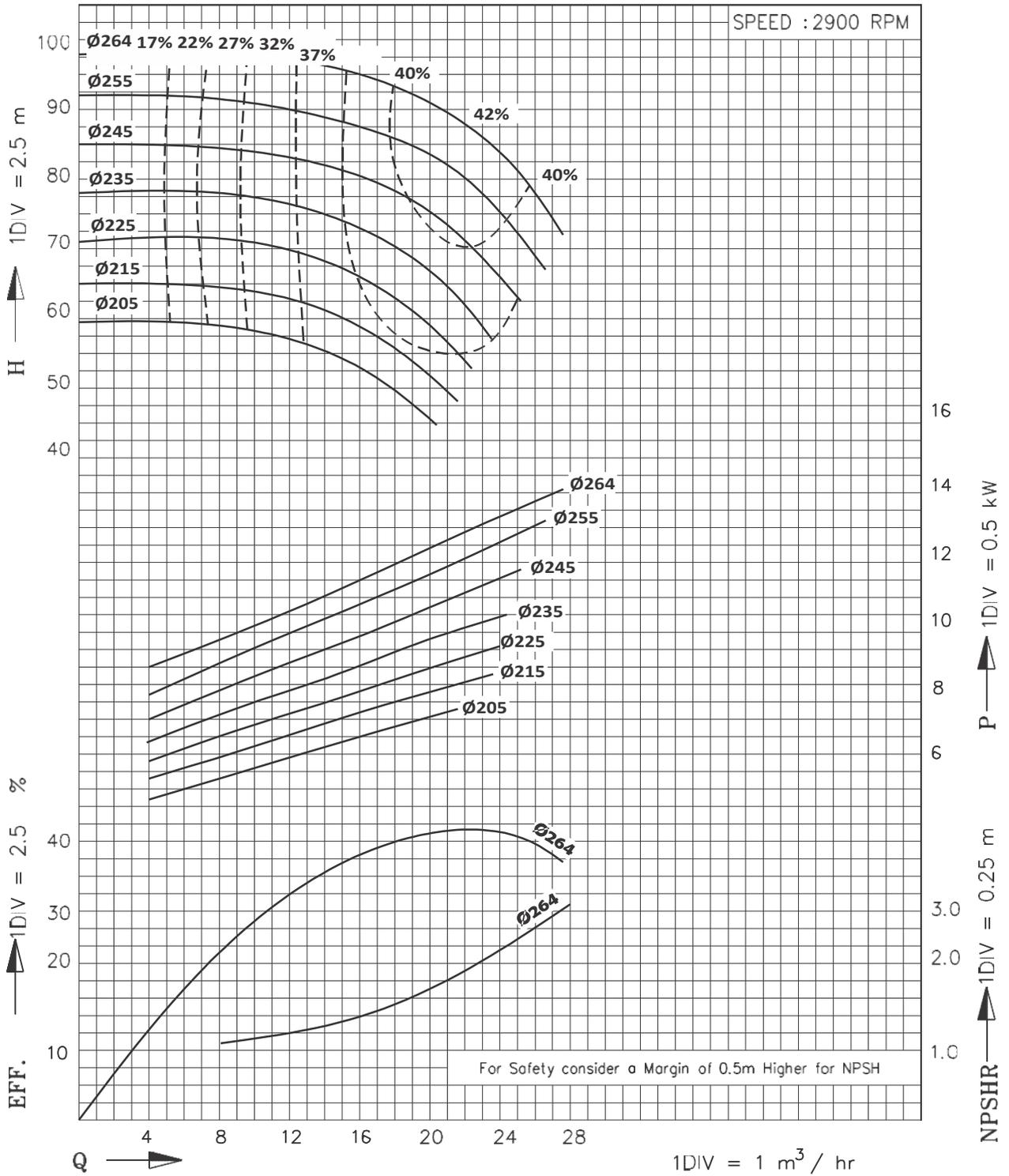


PERFORMANCE CURVE

Model : ESAR-32/260

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 50 x 32

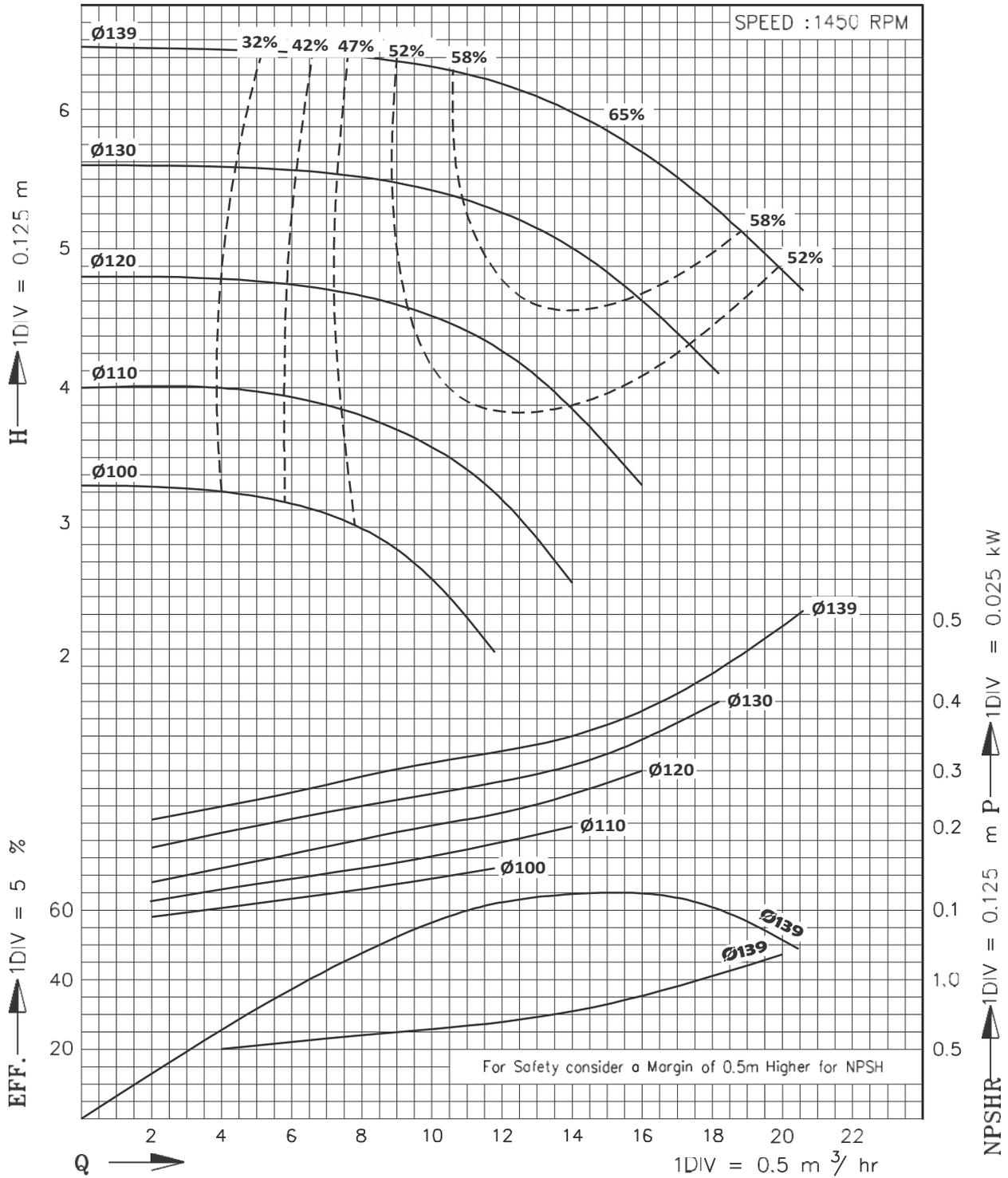


PERFORMANCE CURVE

Model : ESAR-40/130

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 65 x 40

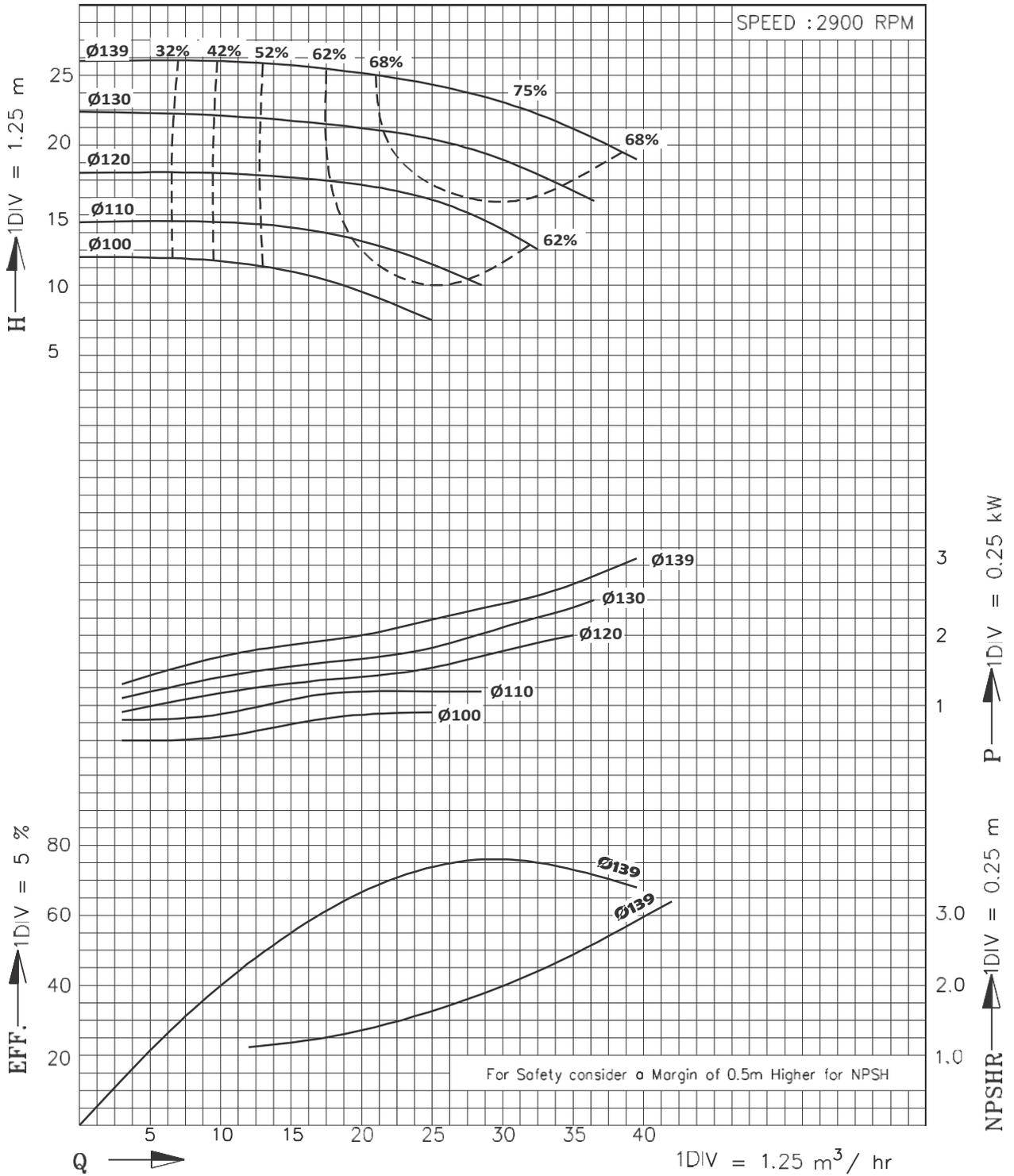


PERFORMANCE CURVE

Model : **ESAR-40/130**

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 65 x 40

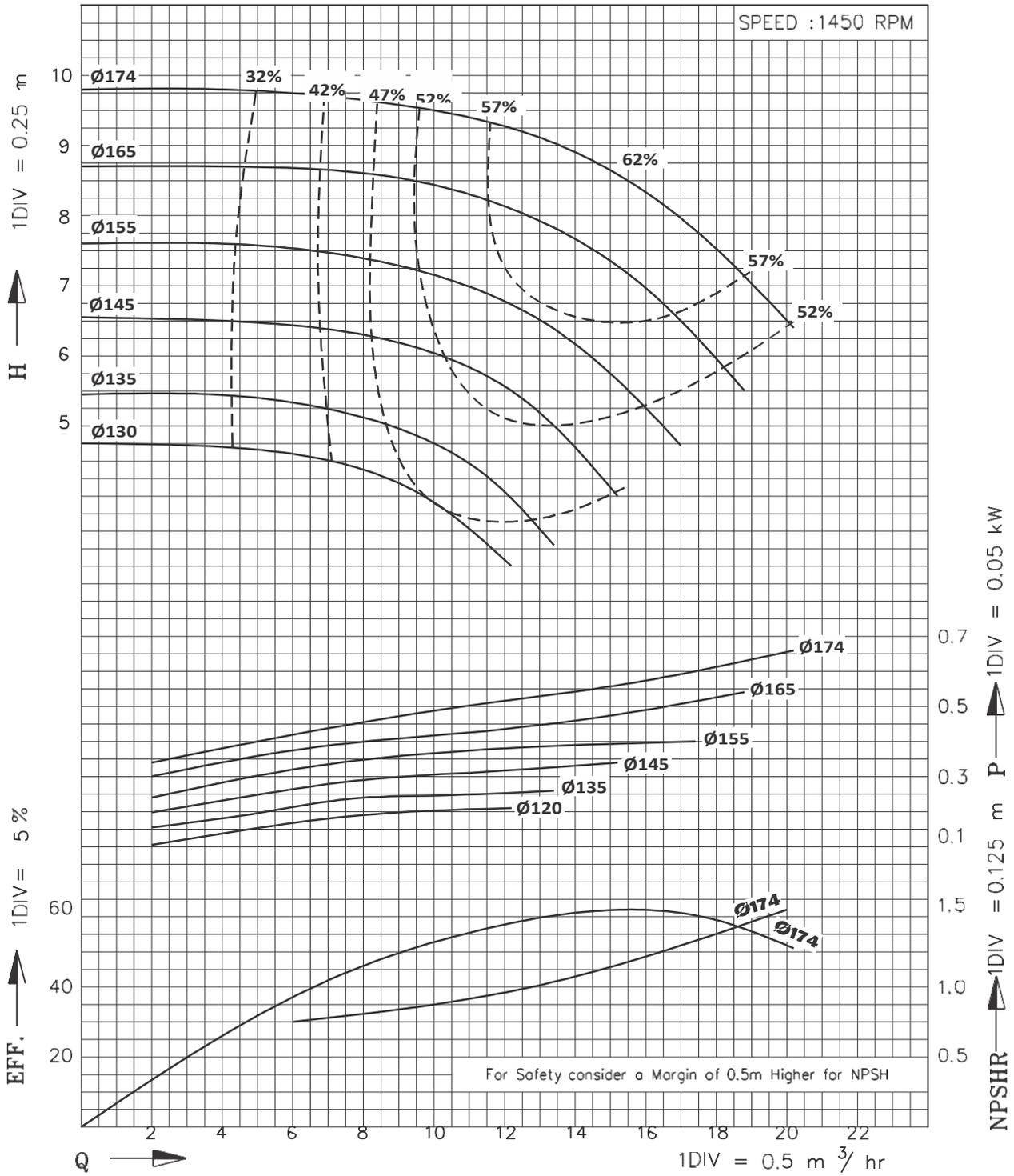


PERFORMANCE CURVE

Model : ESAR-40/160

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 65 x 40

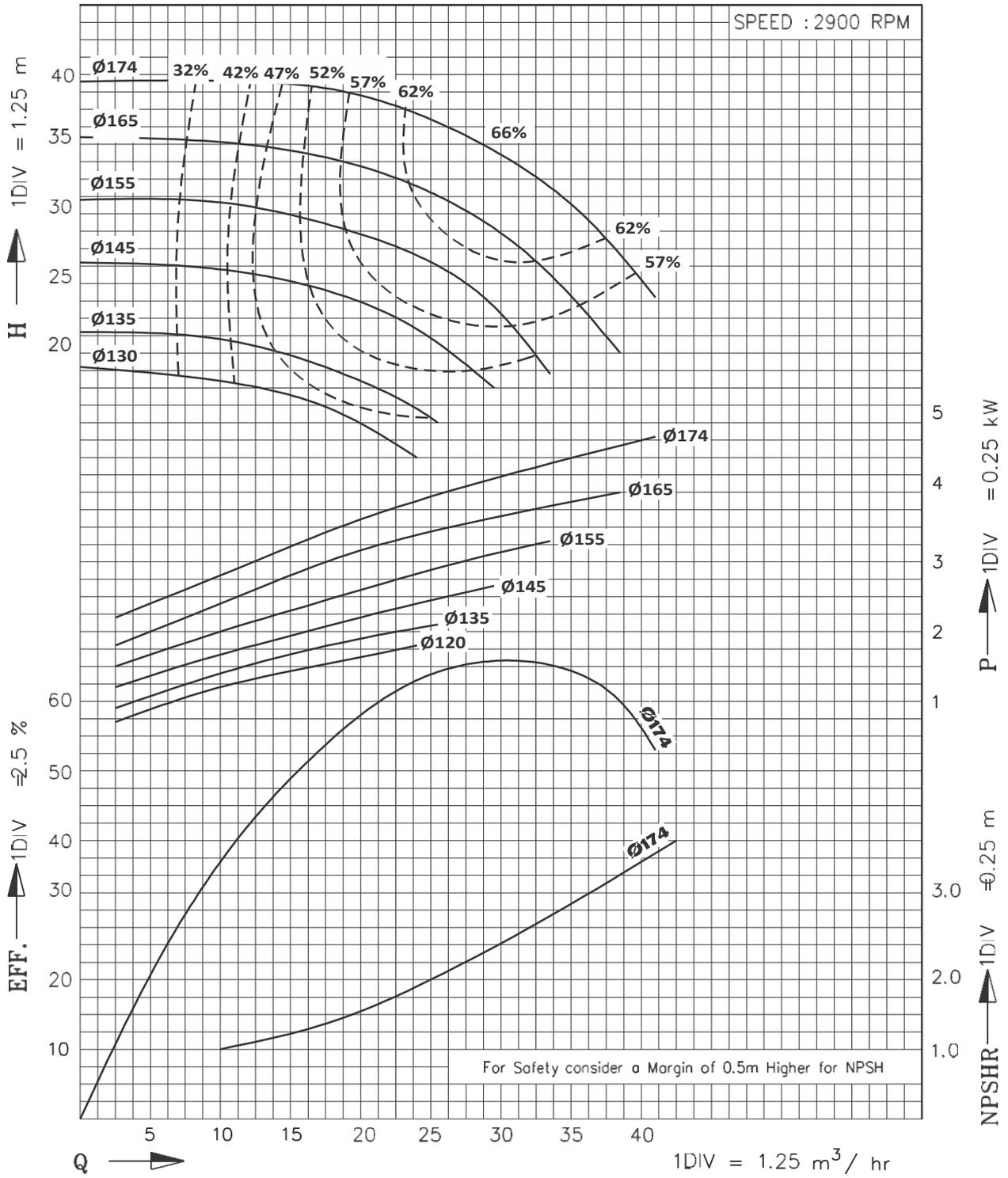


PERFORMANCE CURVE

Model : **ESAR-40/160**

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : **65 x 40**

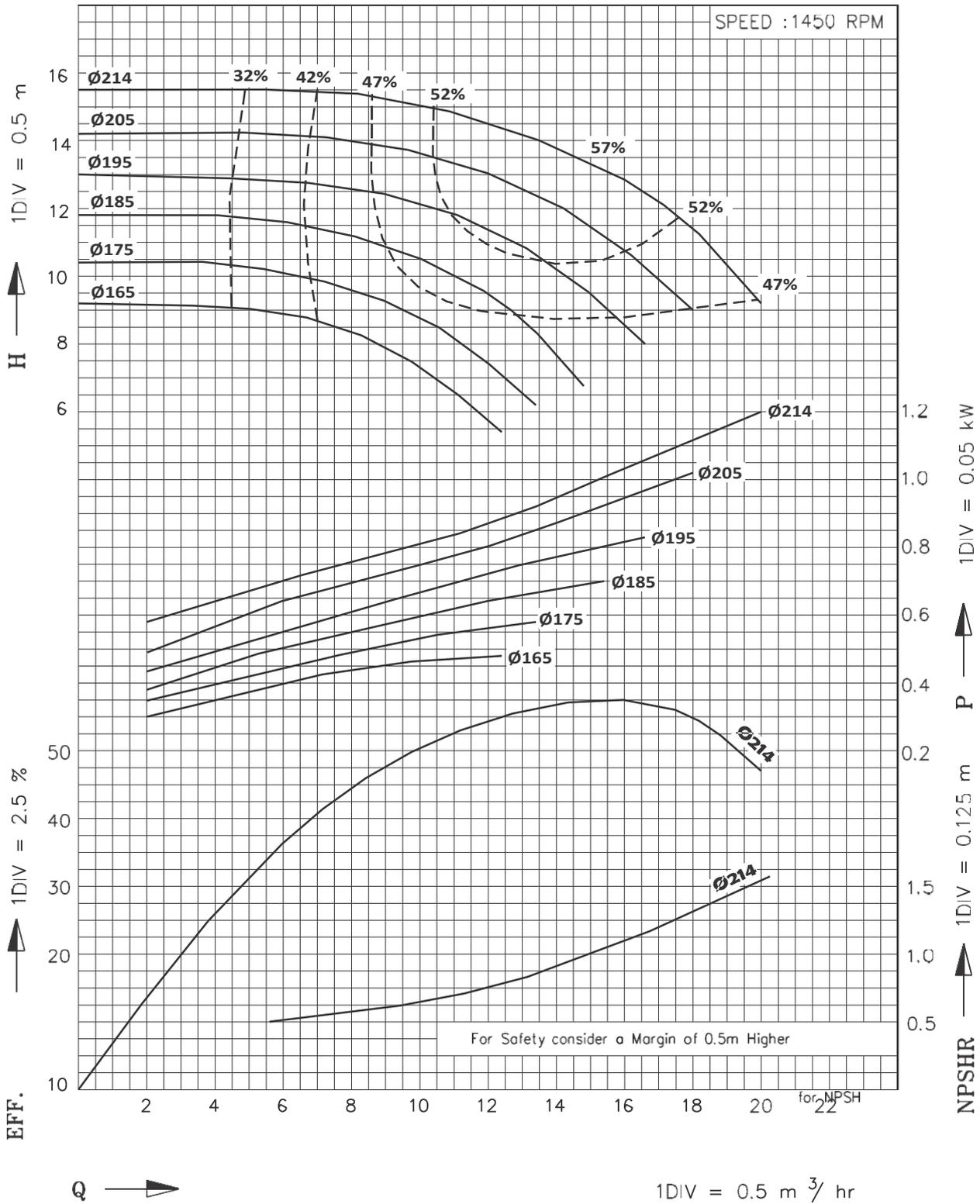


PERFORMANCE CURVE

Model : ESAR-40/200

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 65 x 40

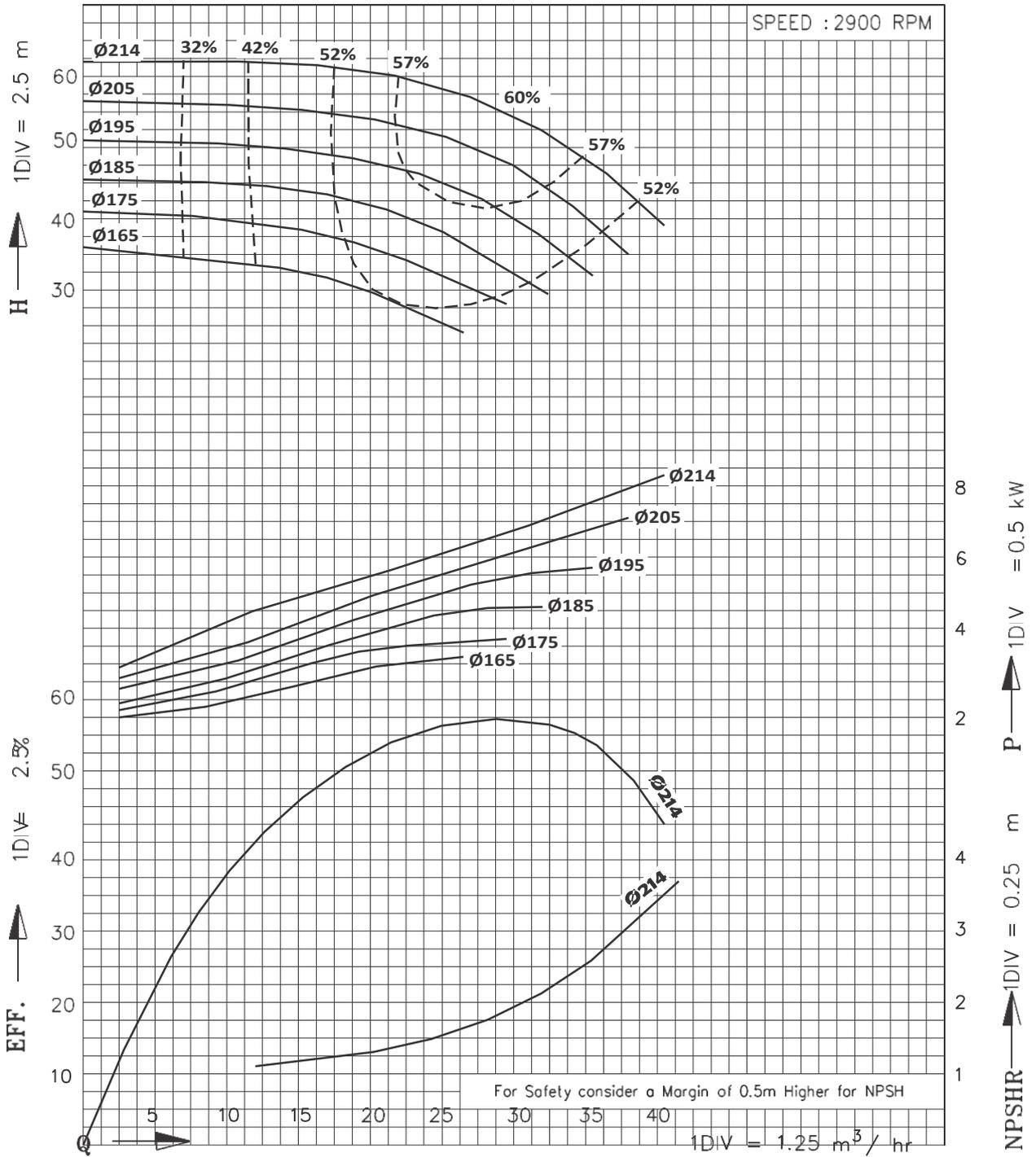


PERFORMANCE CURVE

Model : **ESAR-40/200**

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : **65 x 40**

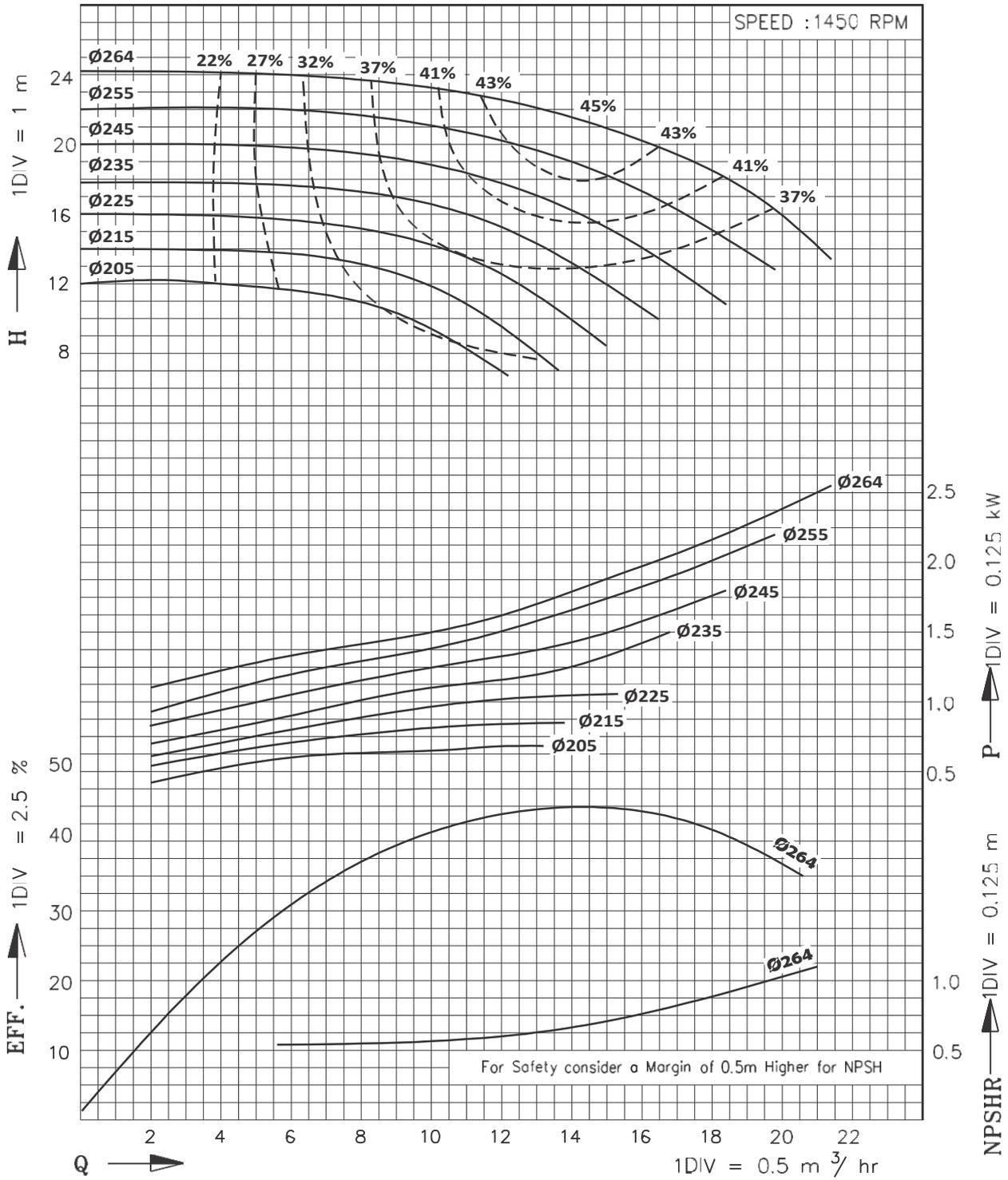


PERFORMANCE CURVE

Model : ESAR-40/260

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 65 x 40

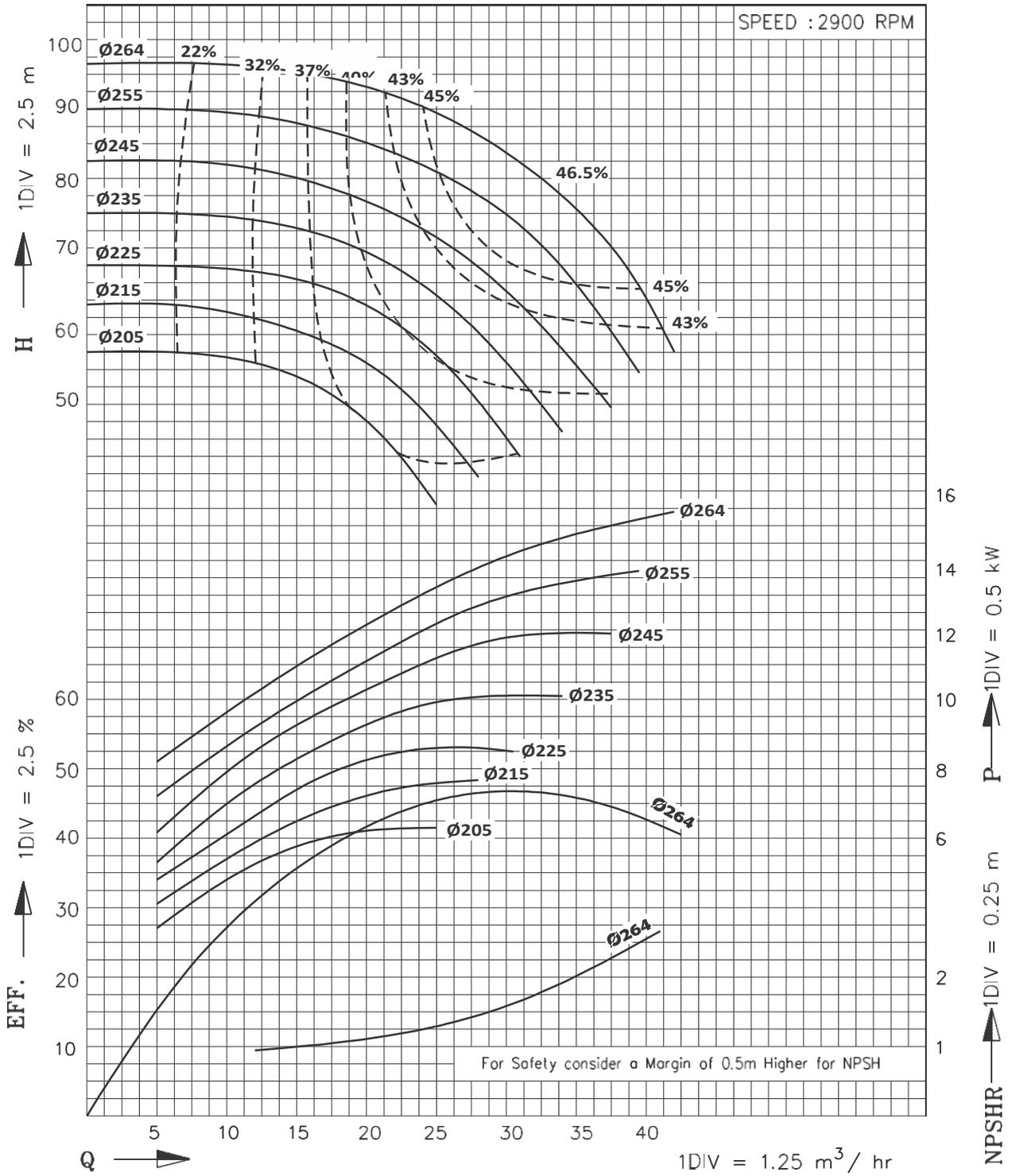


PERFORMANCE CURVE

Model : **ESAR-40/260**

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 65 x 40

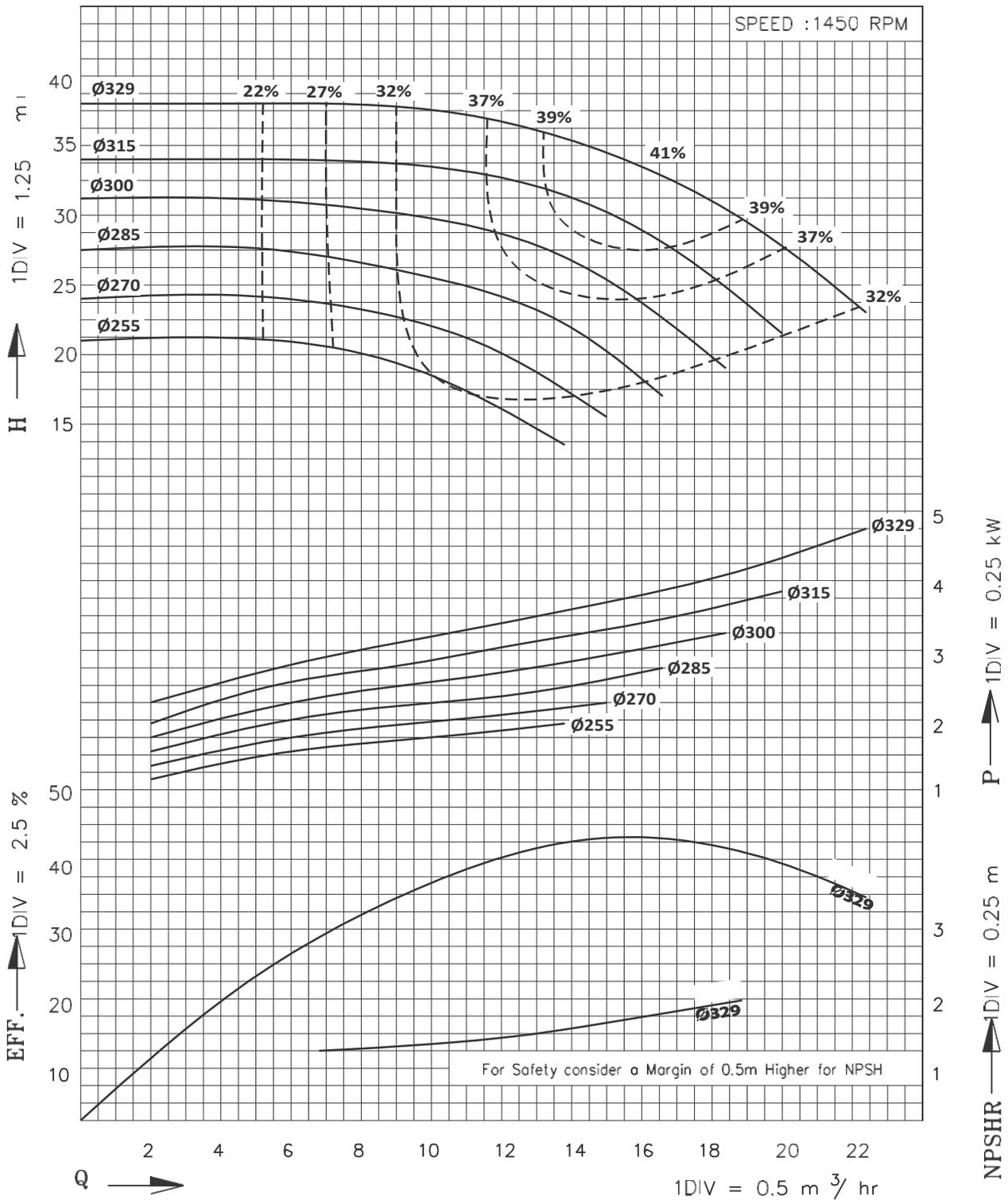


PERFORMANCE CURVE

Model : ESAR-40/320

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 65 x 40

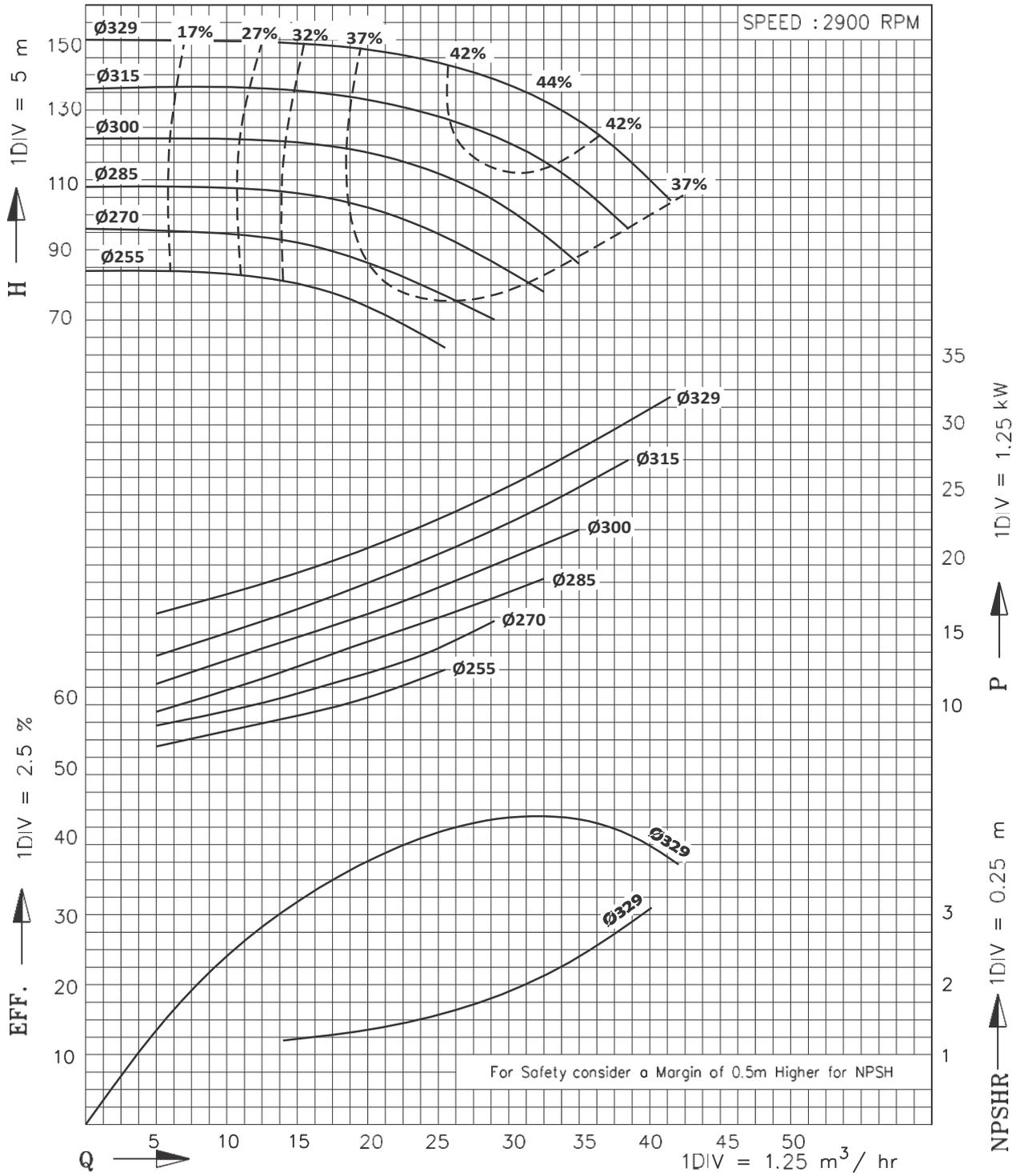


PERFORMANCE CURVE

Model : **ESAR-40/320**
On request

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : **65 x 40**

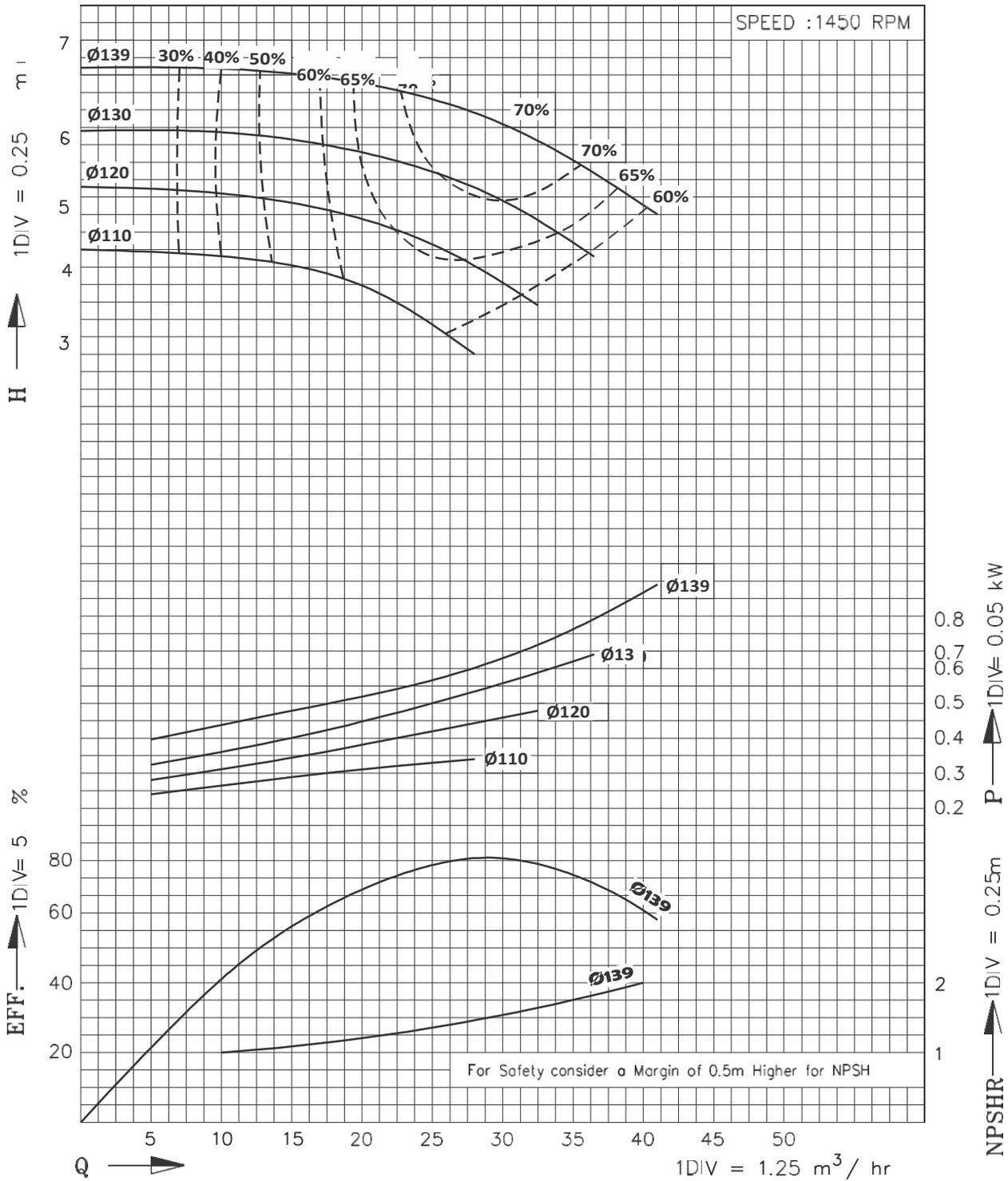


PERFORMANCE CURVE

Model : **ESAR-50/130**

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : **65 x 50**

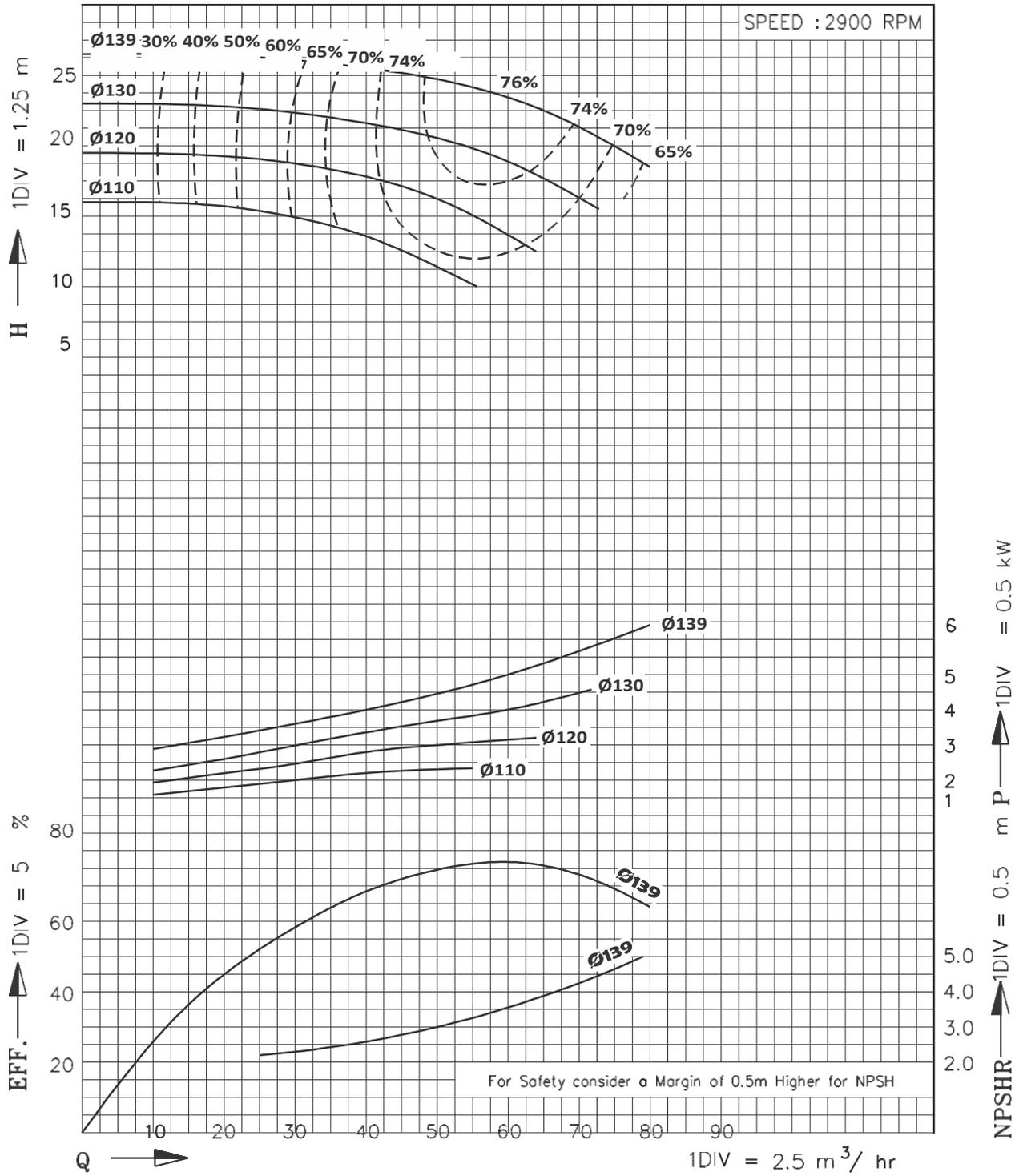


PERFORMANCE CURVE

Model : **ESAR-50/130**

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 65 x 50

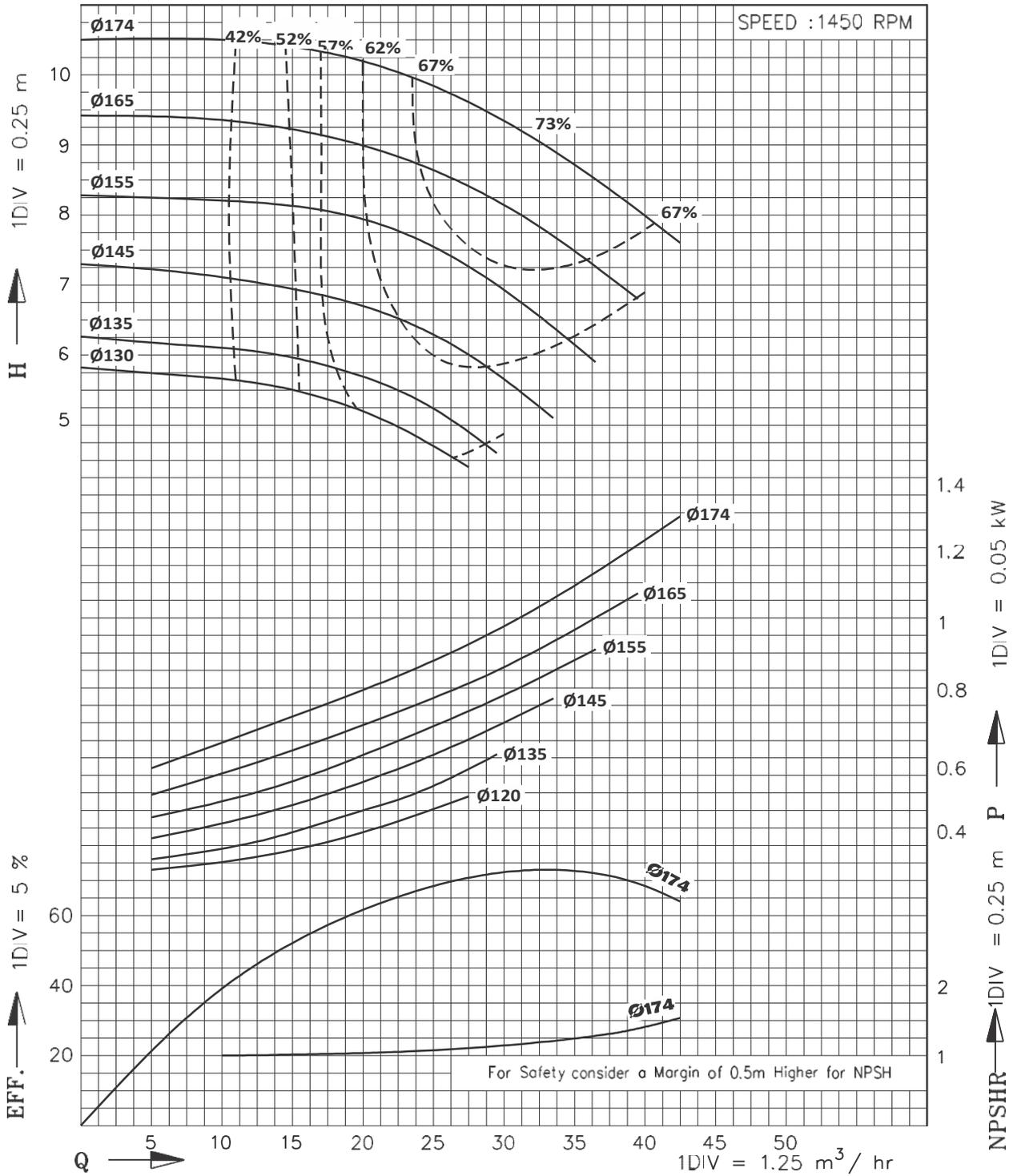


PERFORMANCE CURVE

Model : ESAR-50/160

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 65 x 50

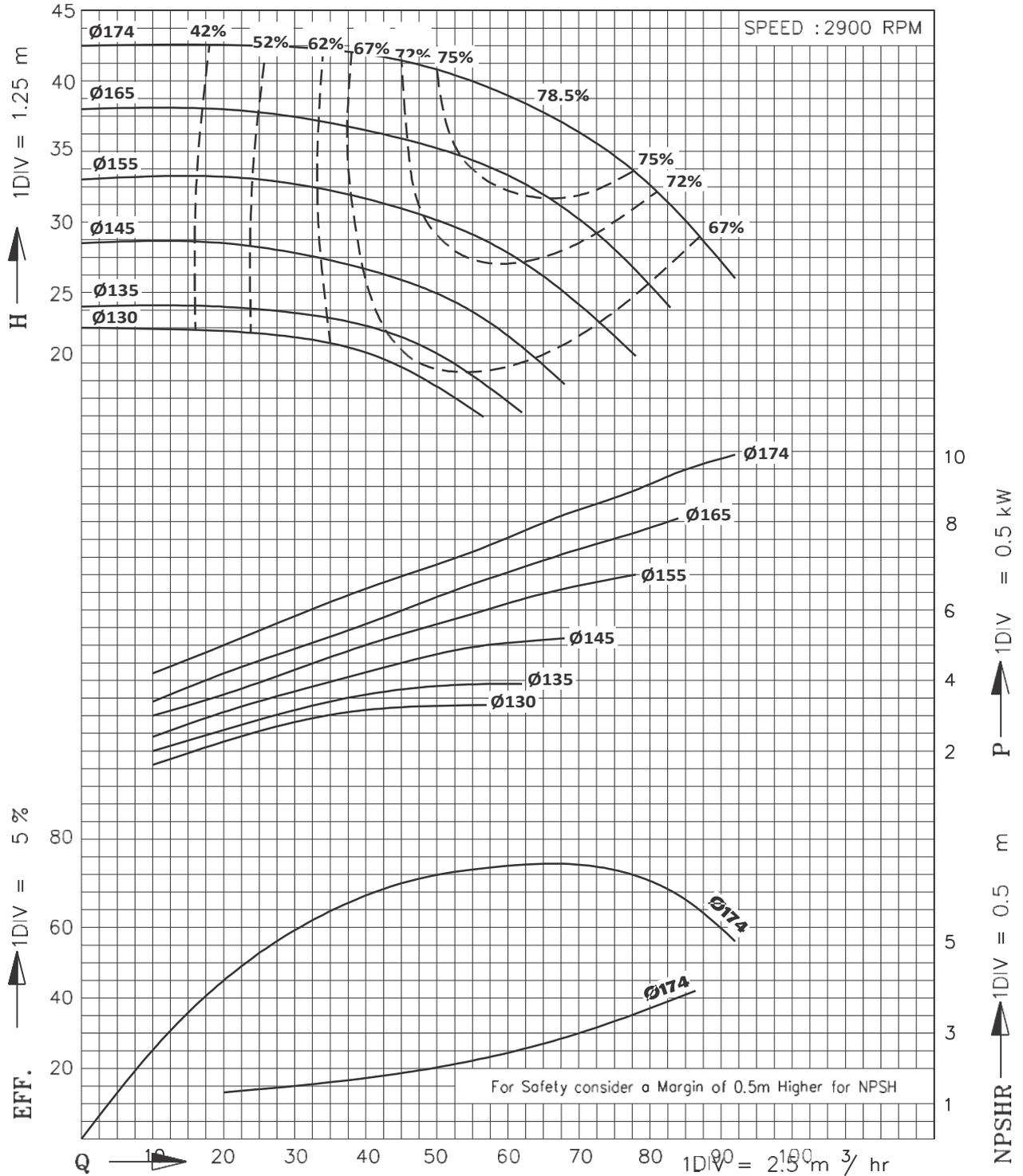


PERFORMANCE CURVE

Model : ESAR-50/160

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 65 x 50

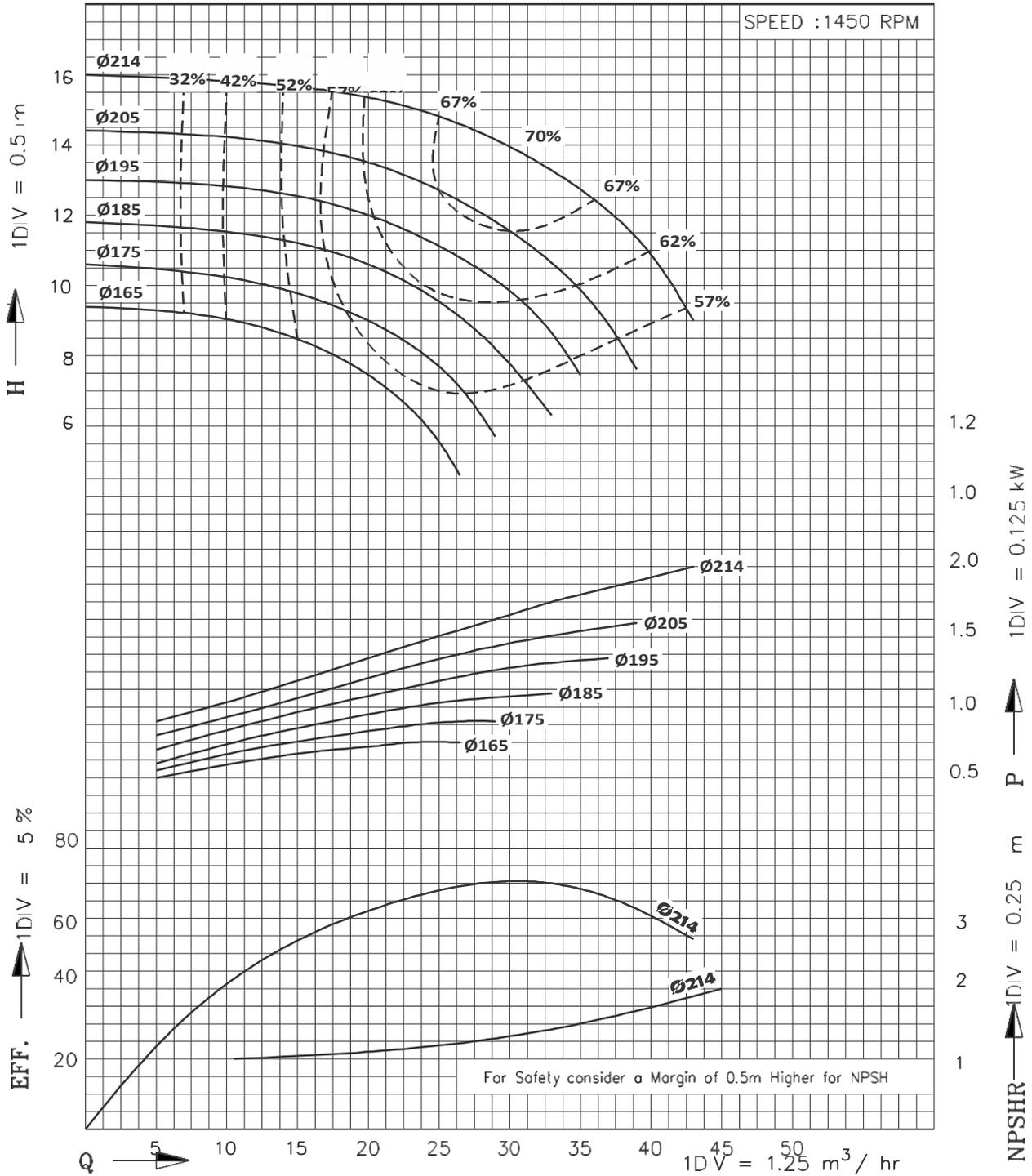


PERFORMANCE CURVE

Model : ESAR-50/200

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 65 x 50

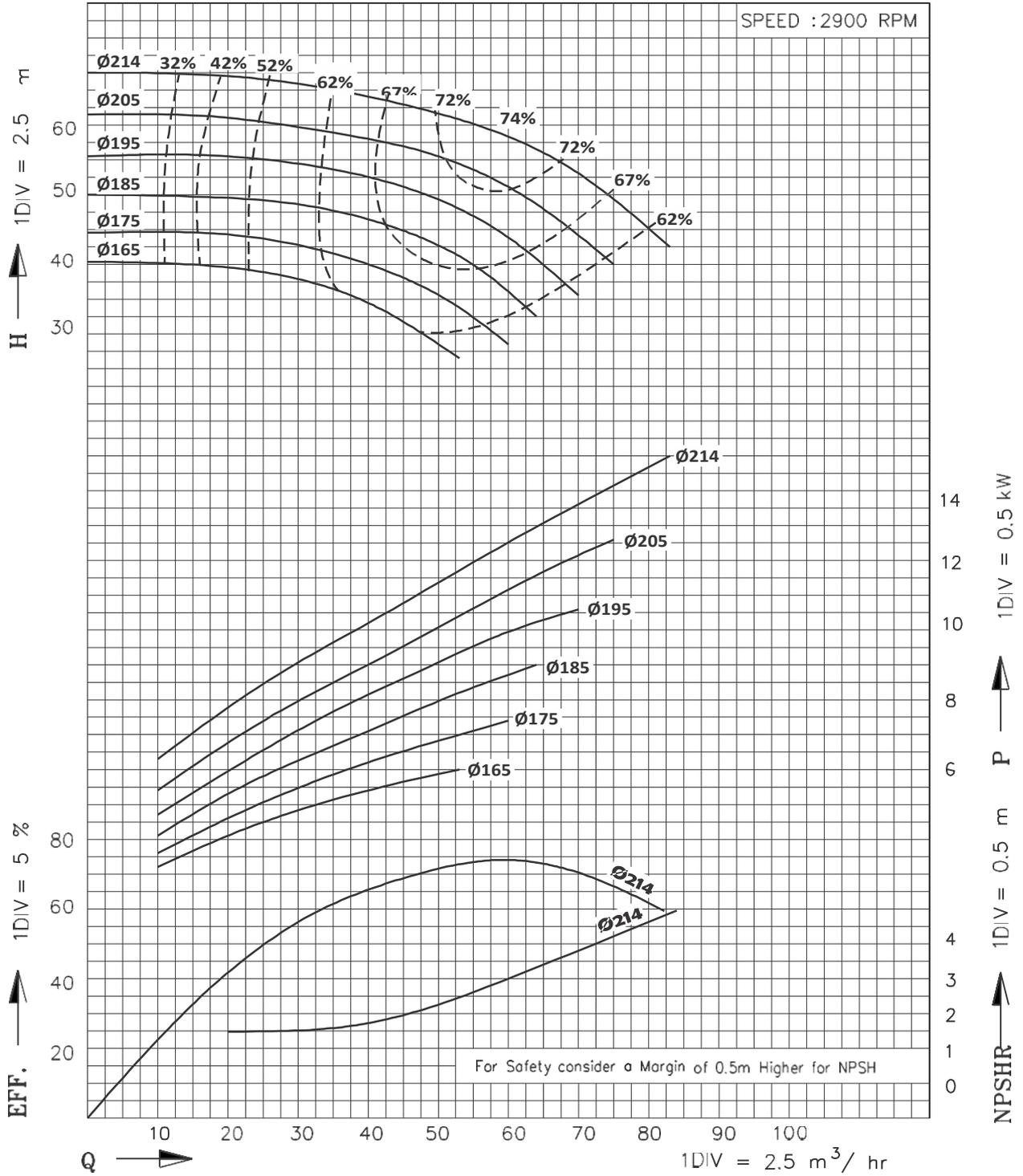


PERFORMANCE CURVE

Model : ESAR-50/200

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 65 x 50

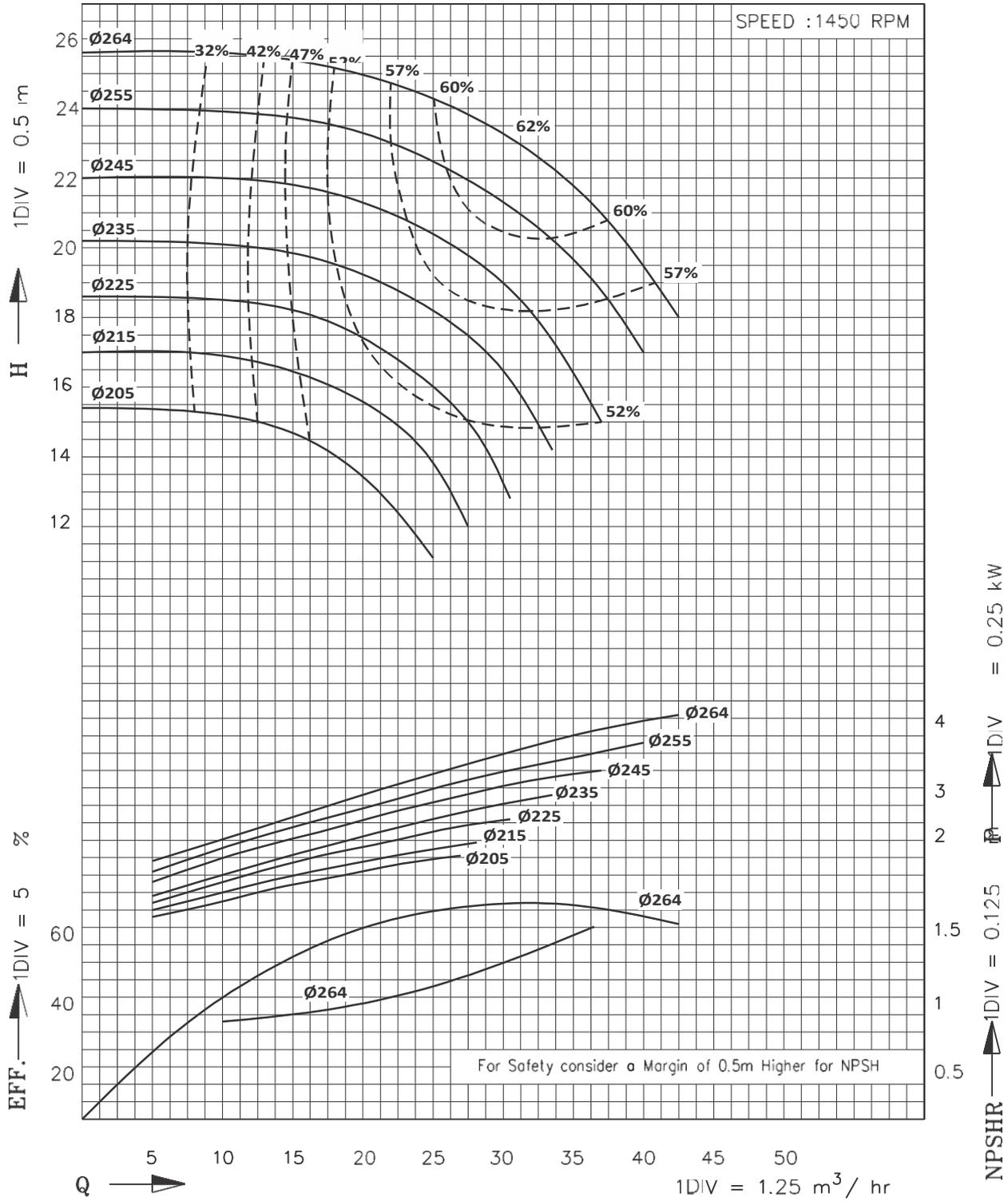


PERFORMANCE CURVE

Model : ESAR-50/260

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 65 x 50

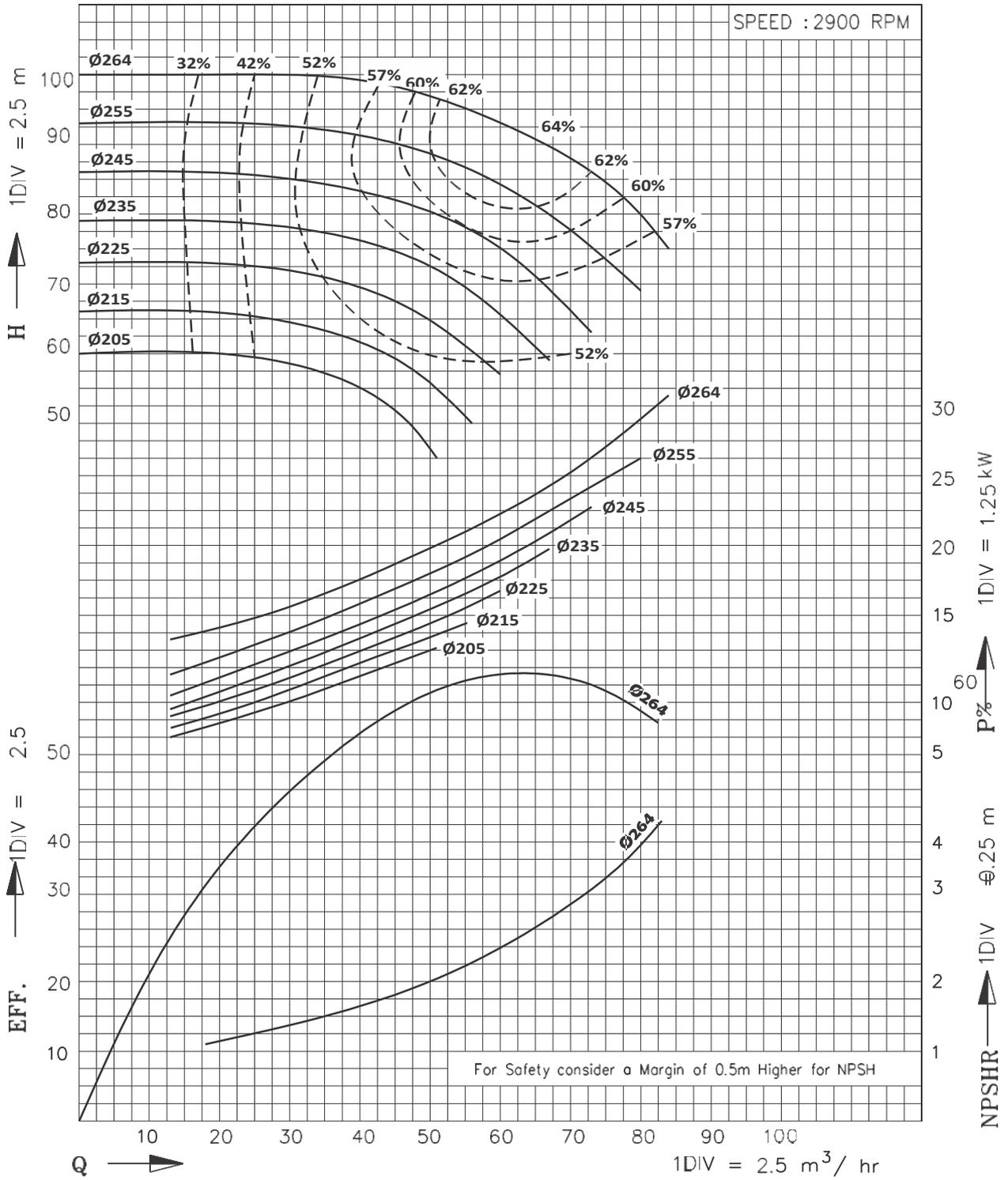


PERFORMANCE CURVE

Model : ESAR-50/260

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 65 x 50

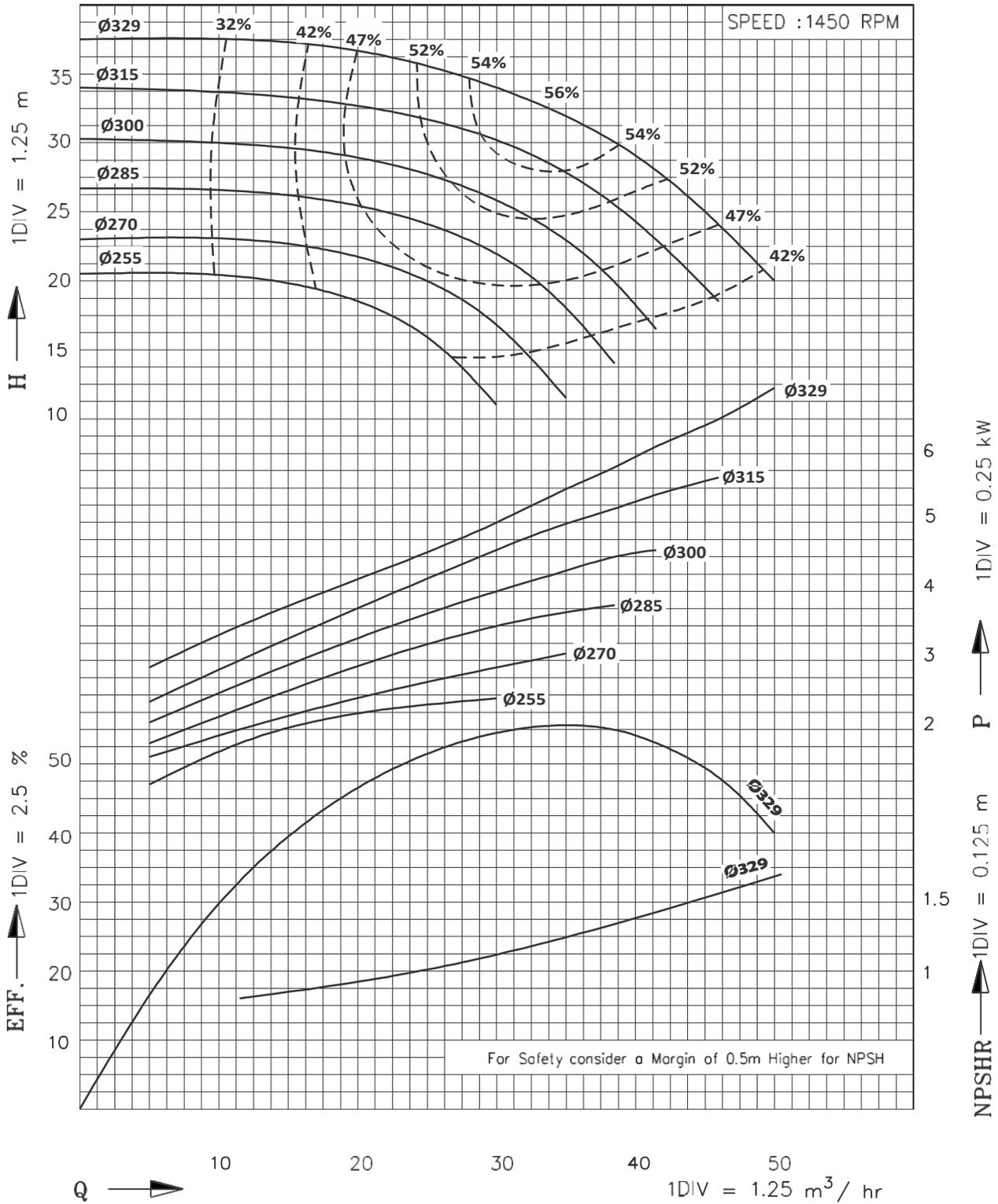


PERFORMANCE CURVE

Model : **ESAR-50/320**

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : **80 x 50**

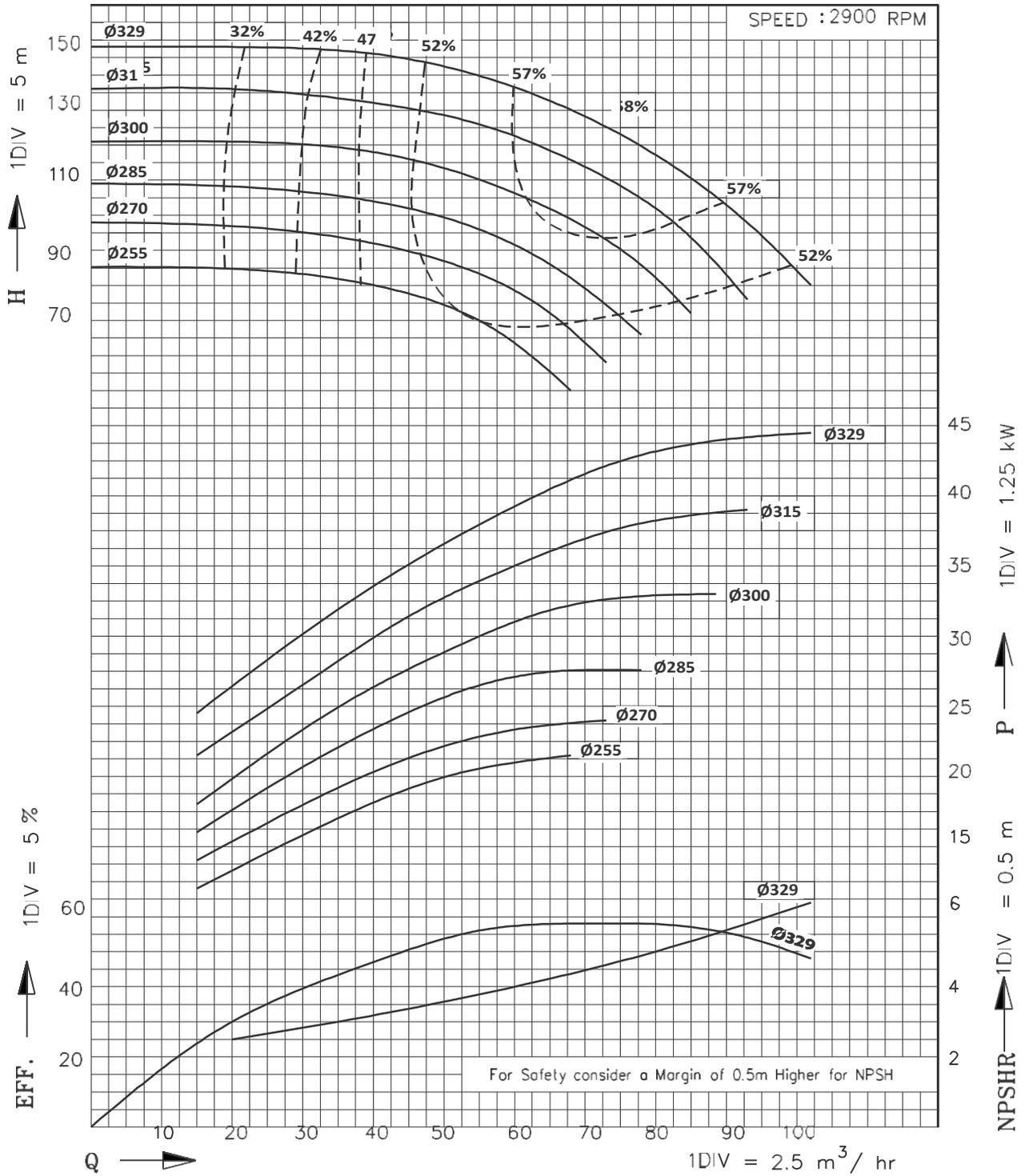


PERFORMANCE CURVE

Model : **ESAR-50/320**-On request

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 80 x 50

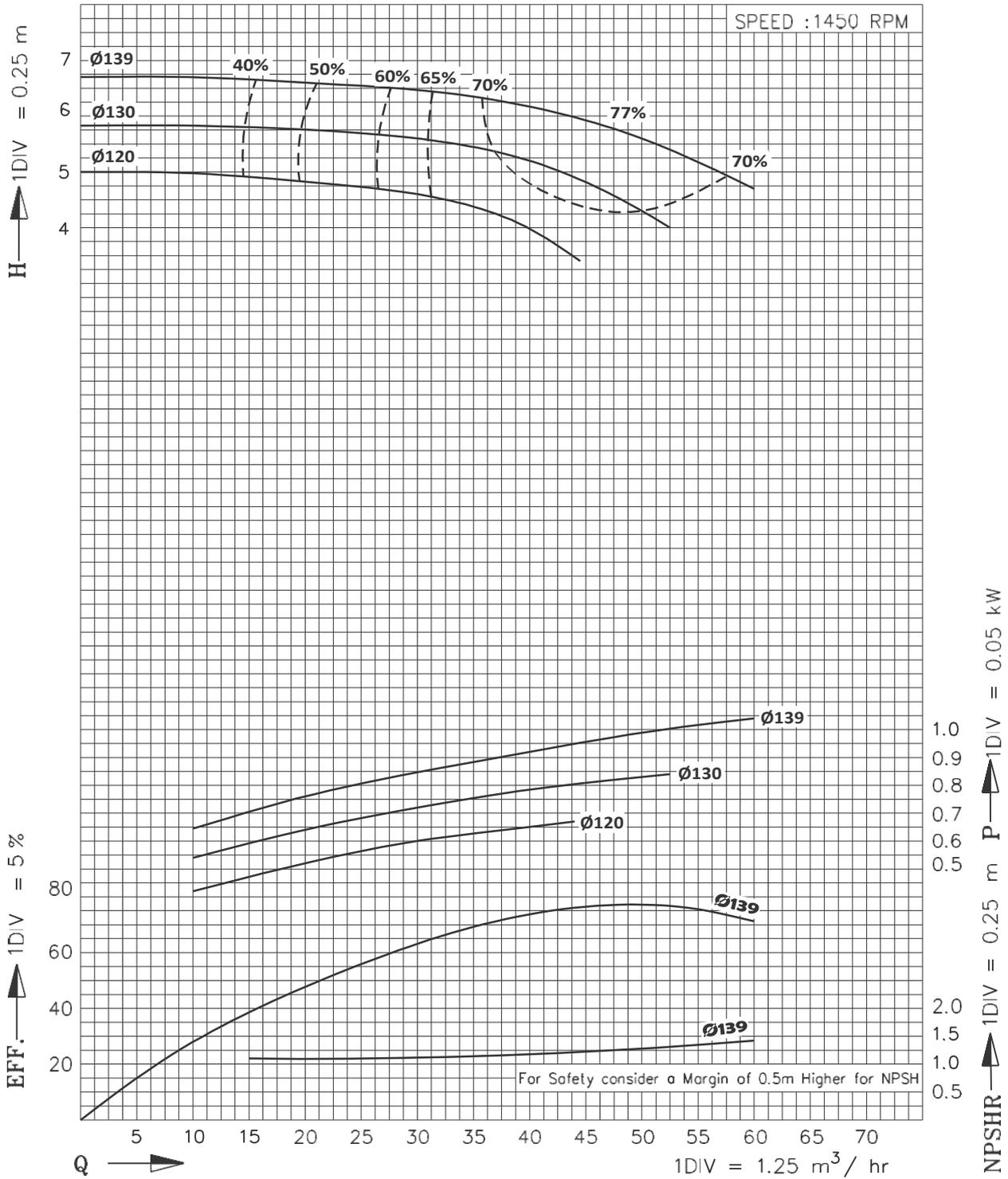


PERFORMANCE CURVE

Model : **ESAR-65/130**

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 80 x 65

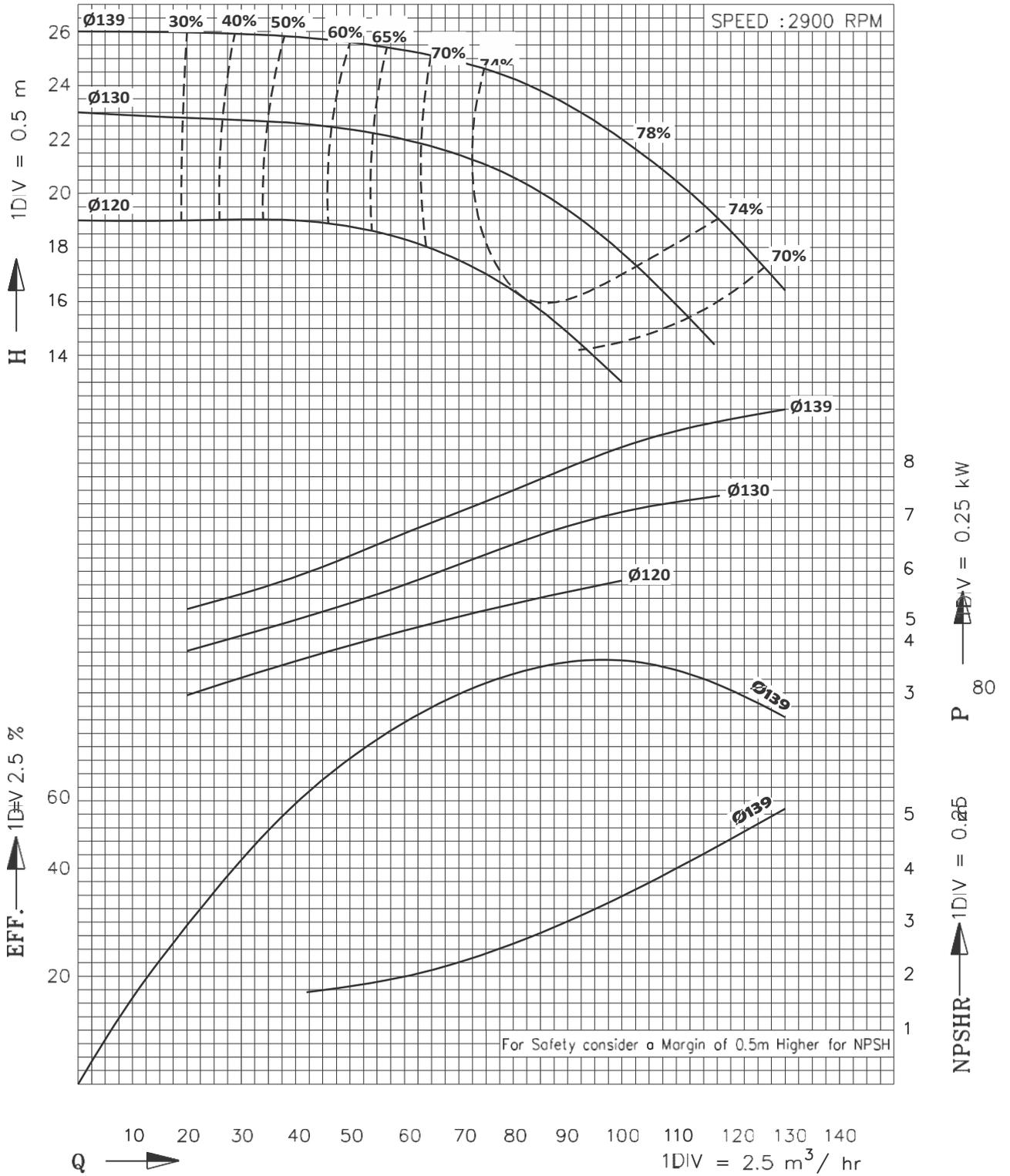


PERFORMANCE CURVE

Model : **ESAR-65/130**

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 80 x 65

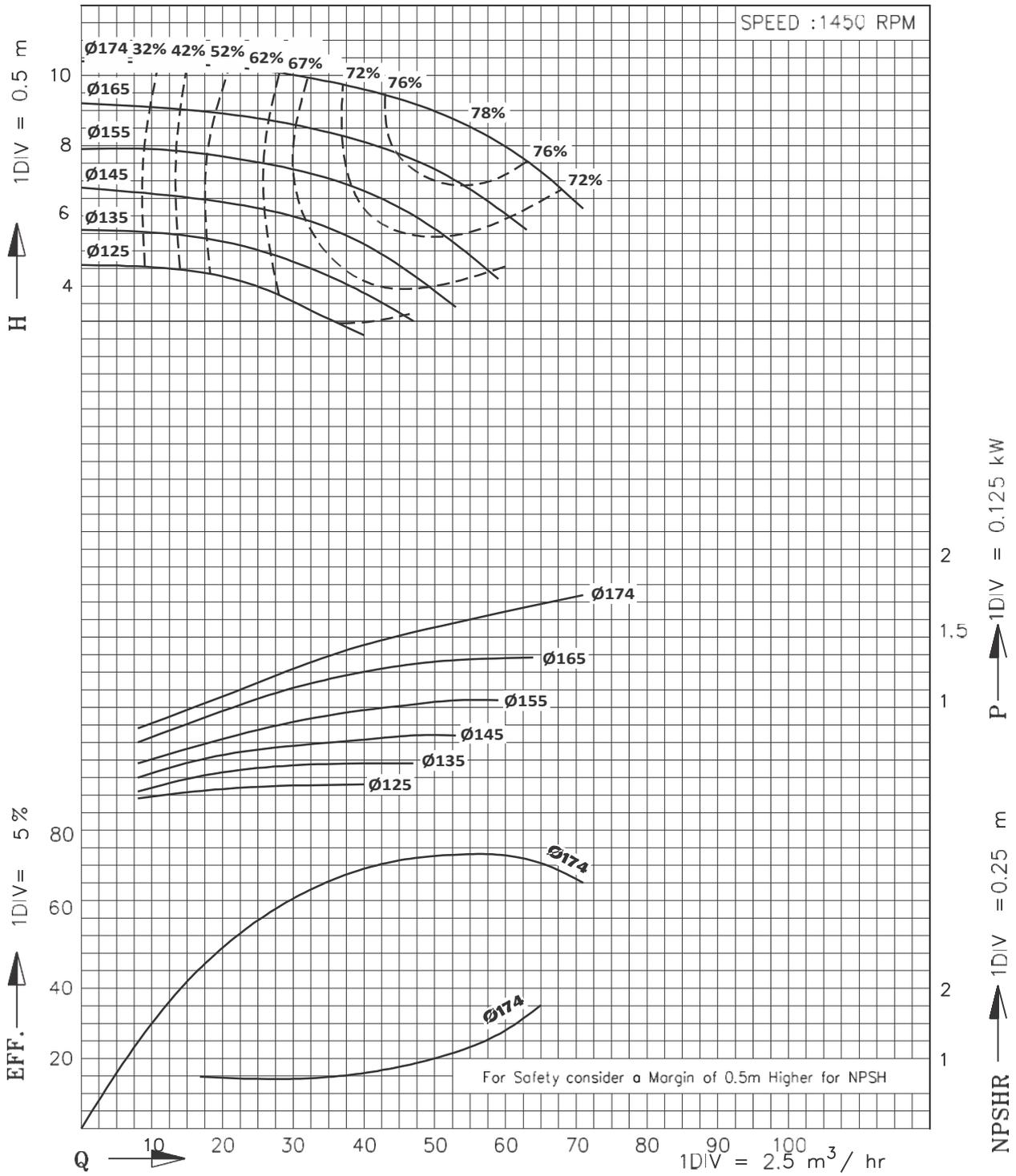


PERFORMANCE CURVE

Model : ESAR-65/160

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 80 x 65

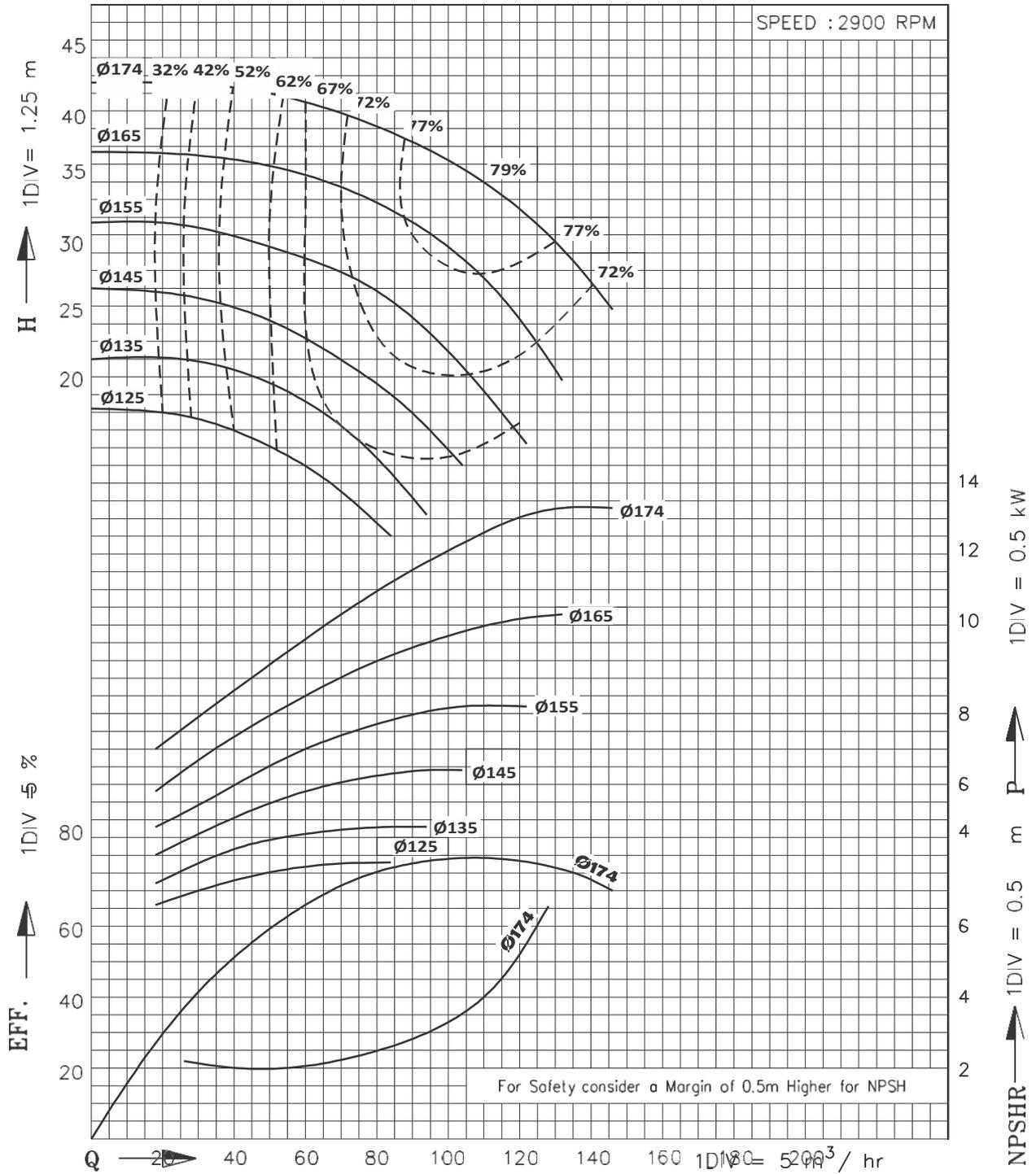


PERFORMANCE CURVE

Model : ESAR-65/160

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 80 x 65

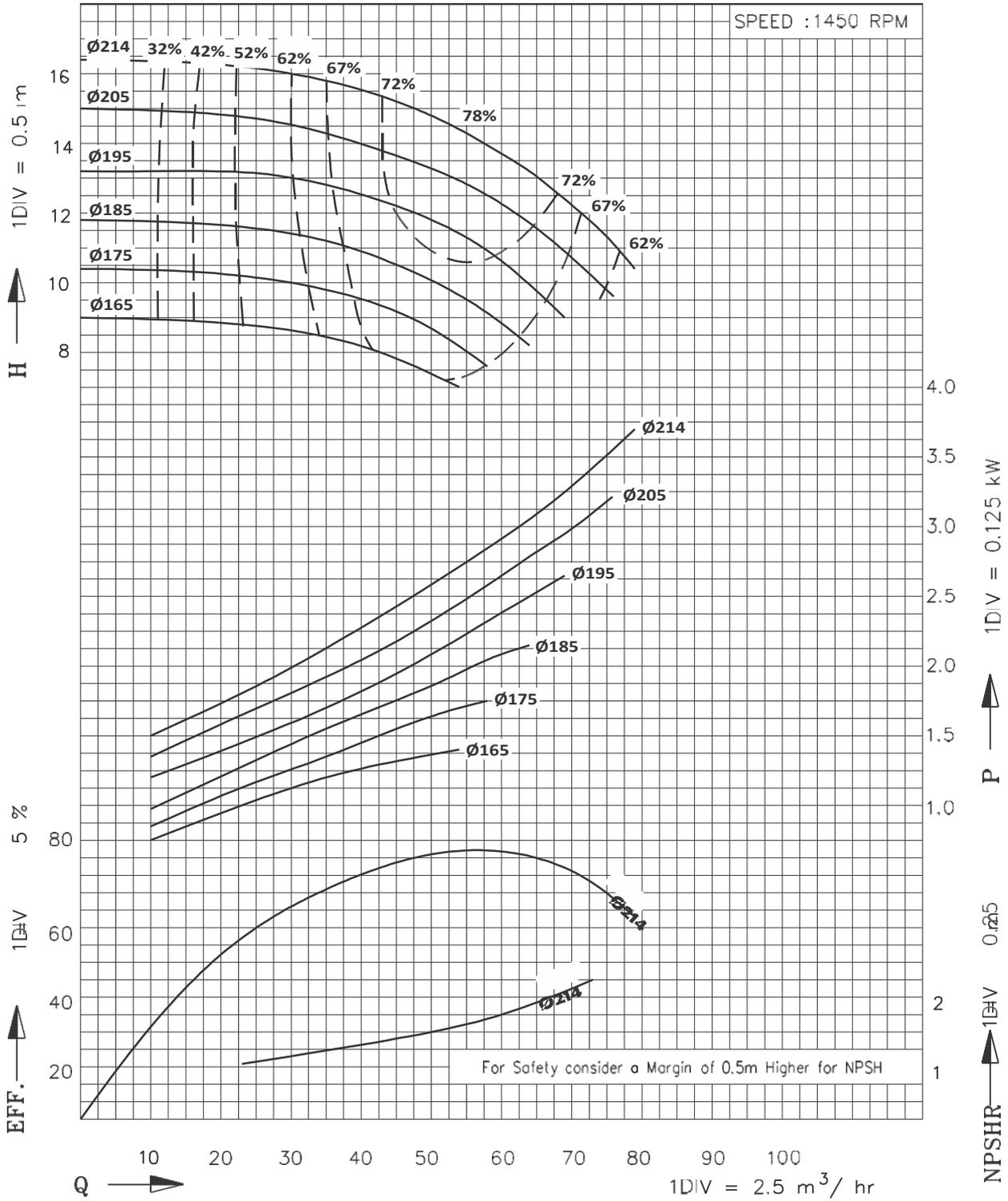


PERFORMANCE CURVE

Model : ESAR-65/200

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 80 x 65

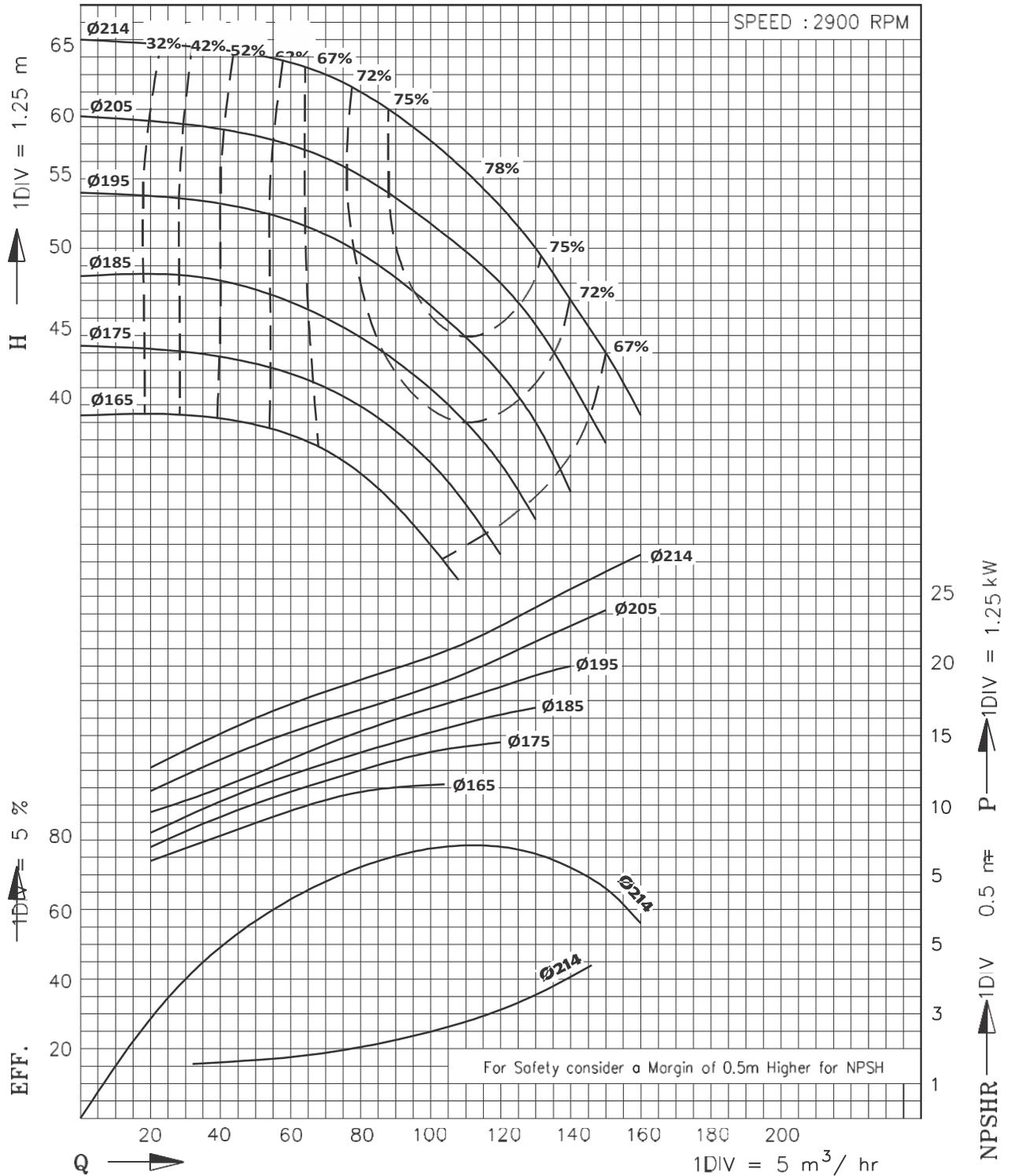


PERFORMANCE CURVE

Model : ESAR-65/200

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 80 x 65

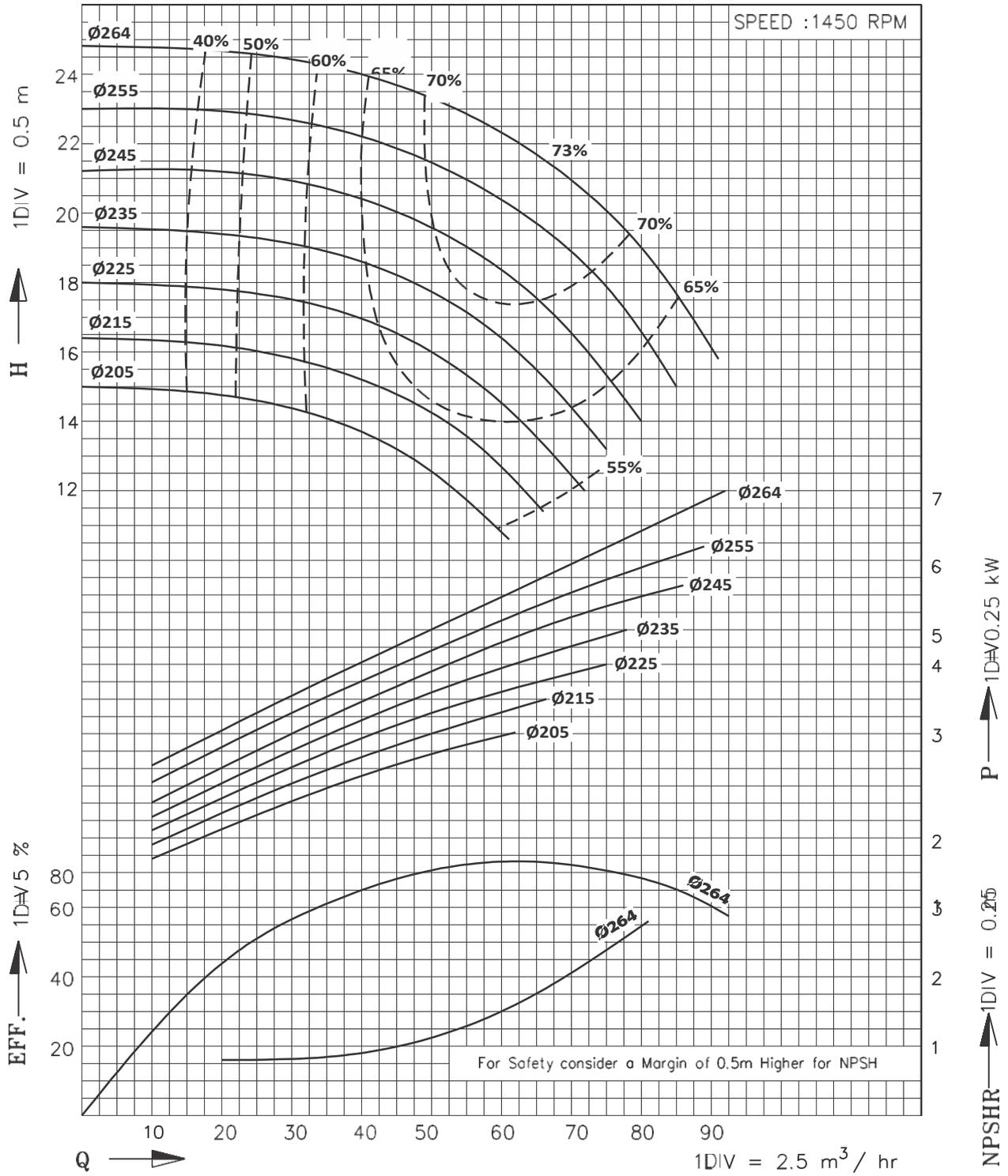


PERFORMANCE CURVE

Model : ESAR-65/260

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 100 x 65

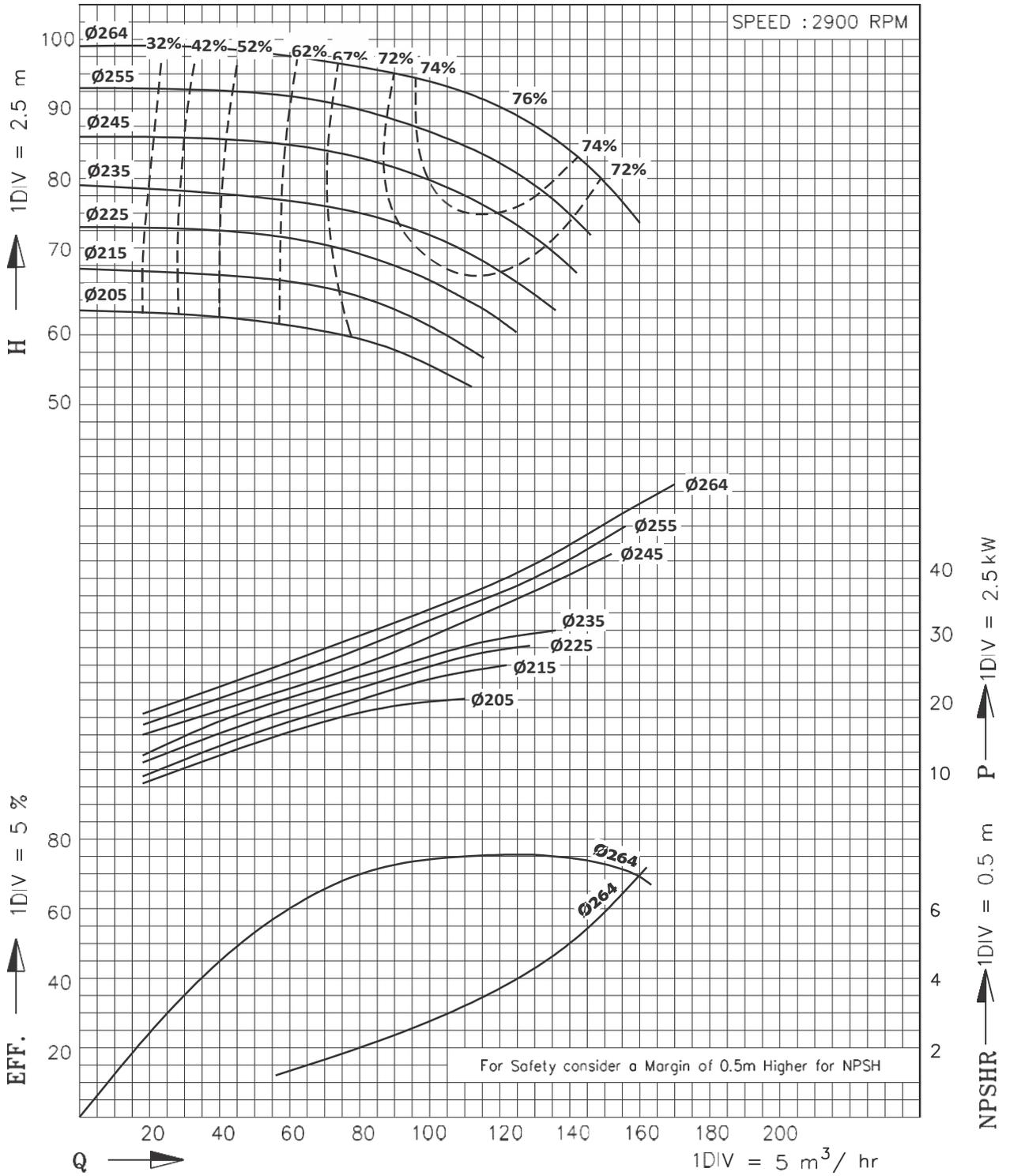


PERFORMANCE CURVE

Model : ESAR-65/260

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 100 x 65

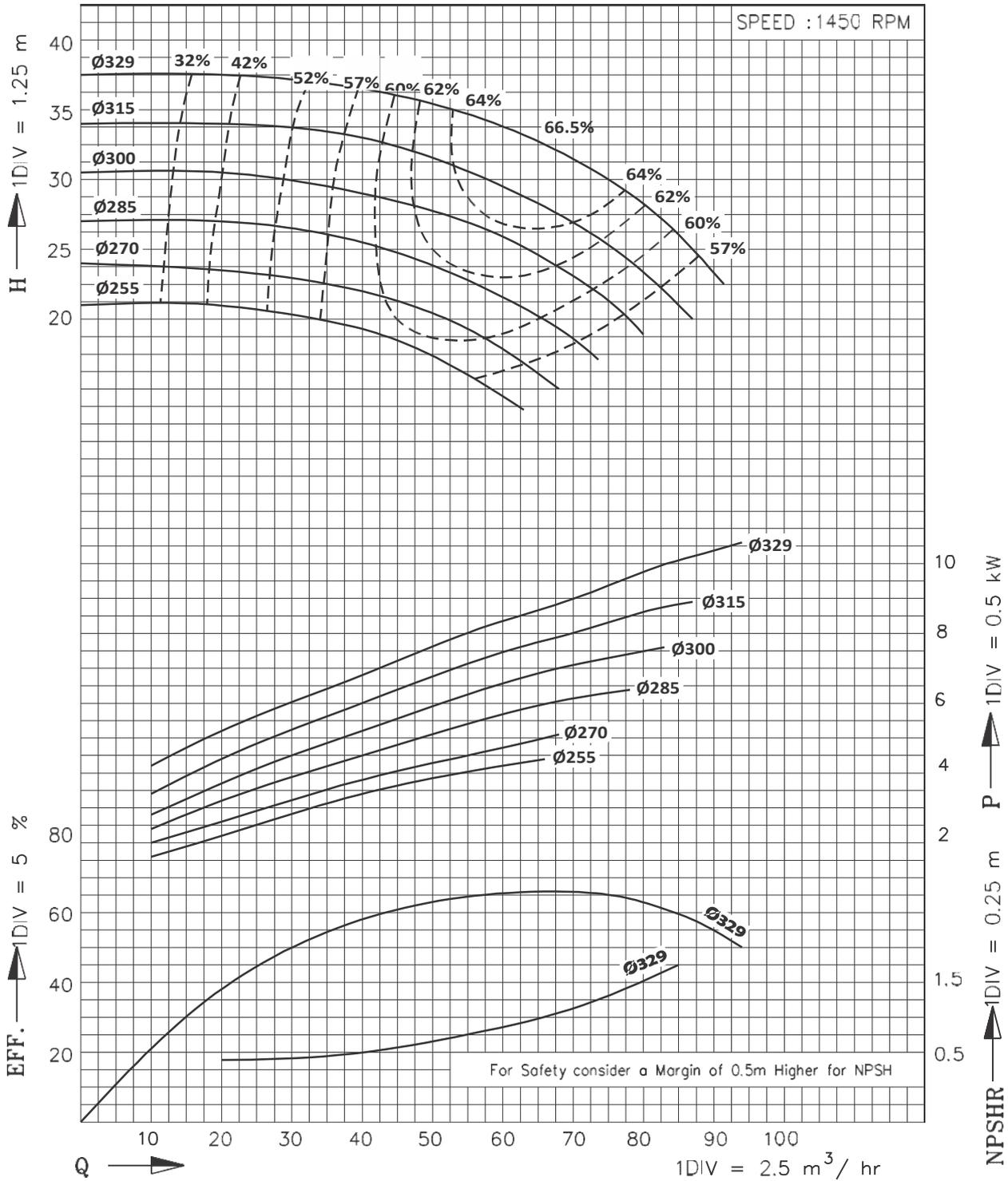


PERFORMANCE CURVE

Model : ESAR-65/320

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 80 x 65

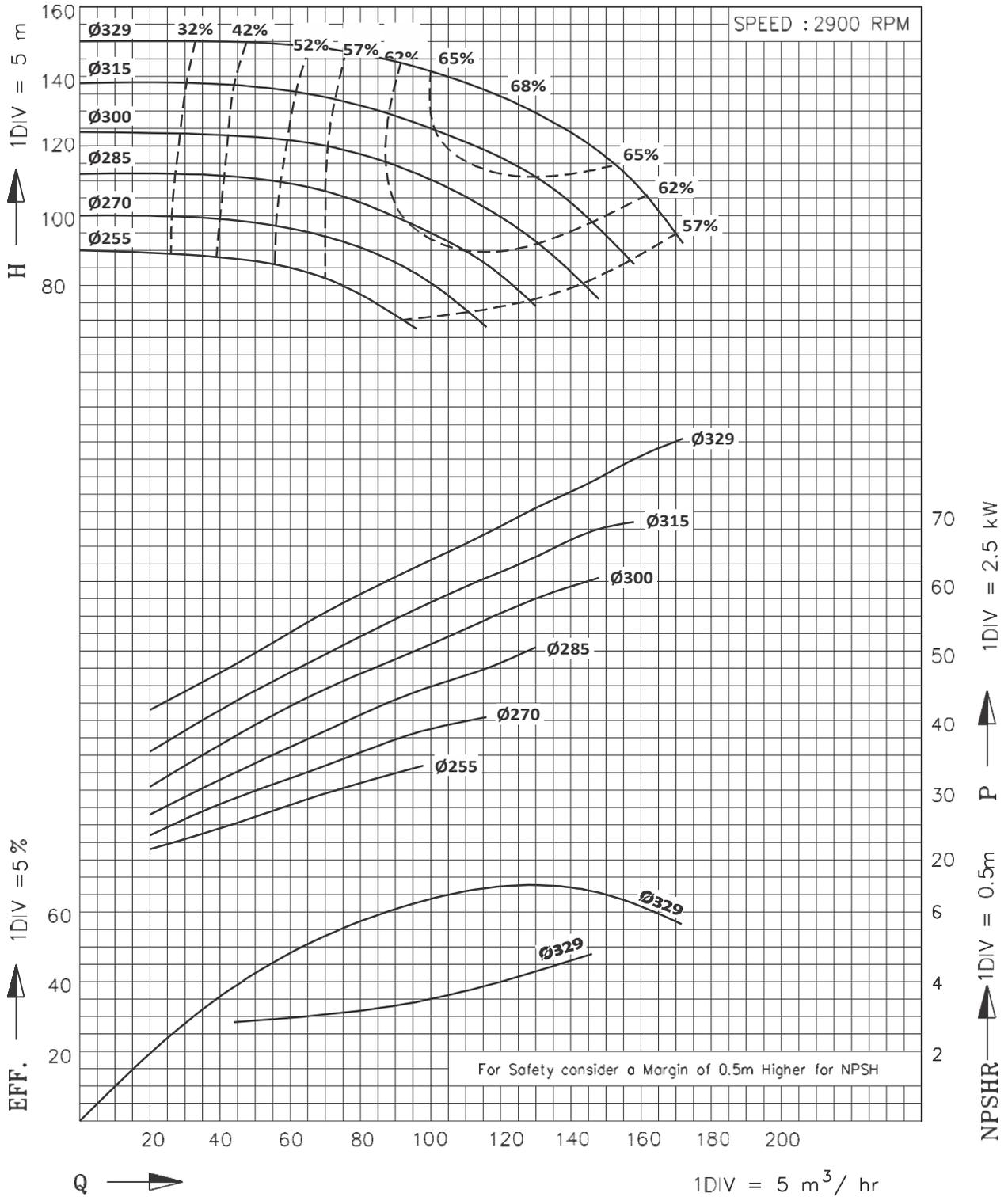


PERFORMANCE CURVE

Model : **ESAR-65/320**
On request

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 80 x 65

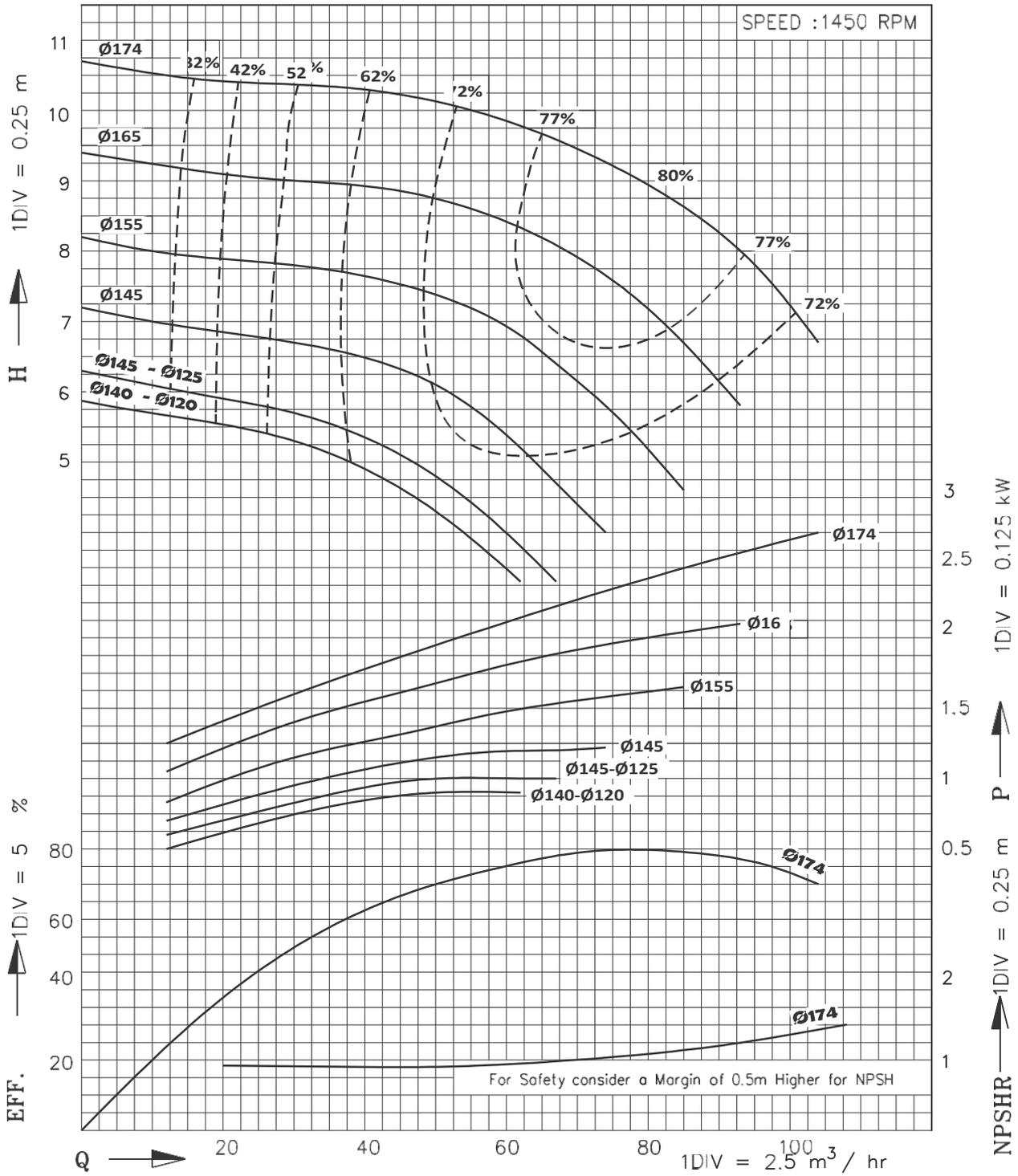


PERFORMANCE CURVE

Model : ESAR-80/160

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 100 x 80

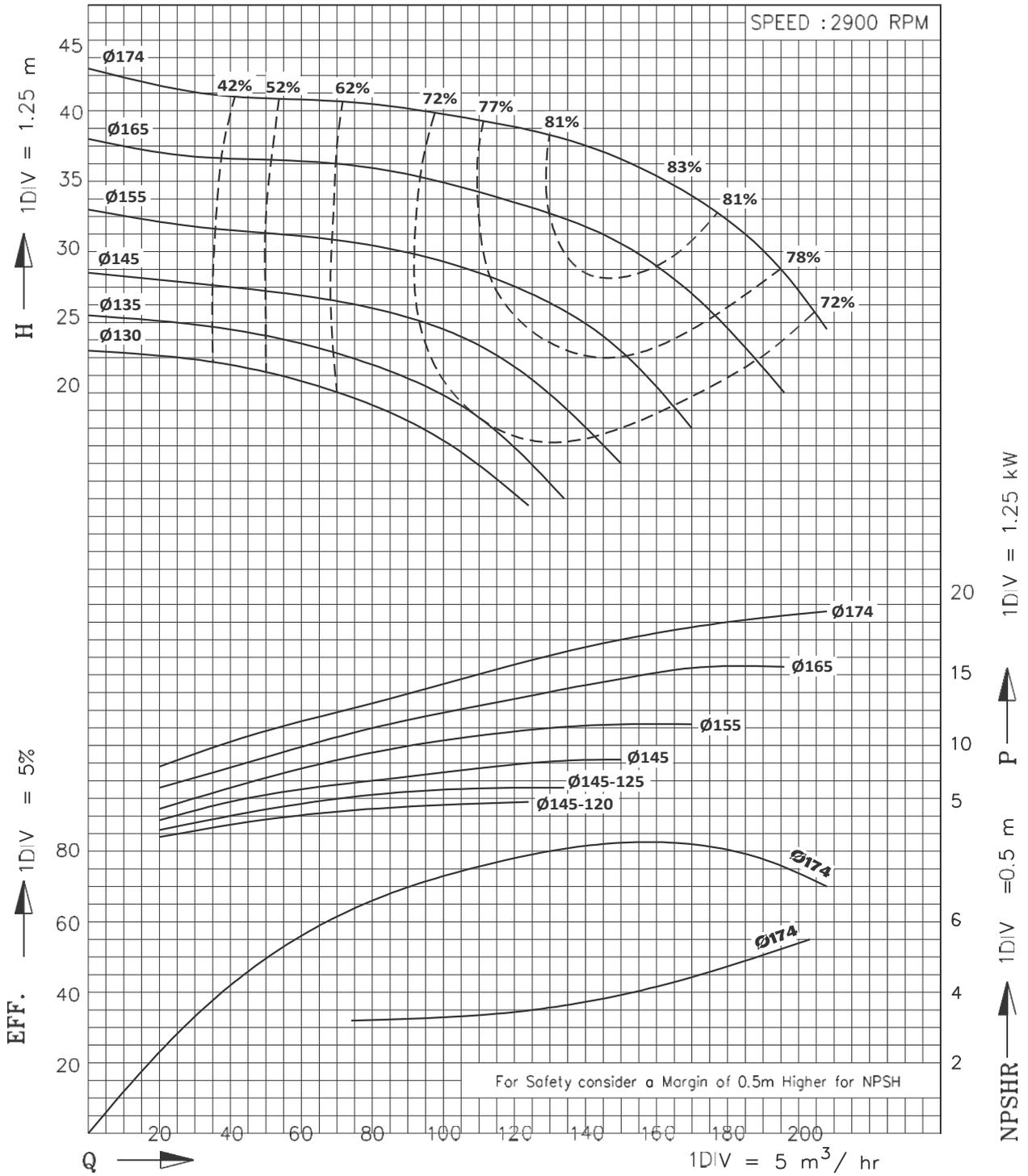


PERFORMANCE CURVE

Model : **ESAR-80/160**

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 100 x 80

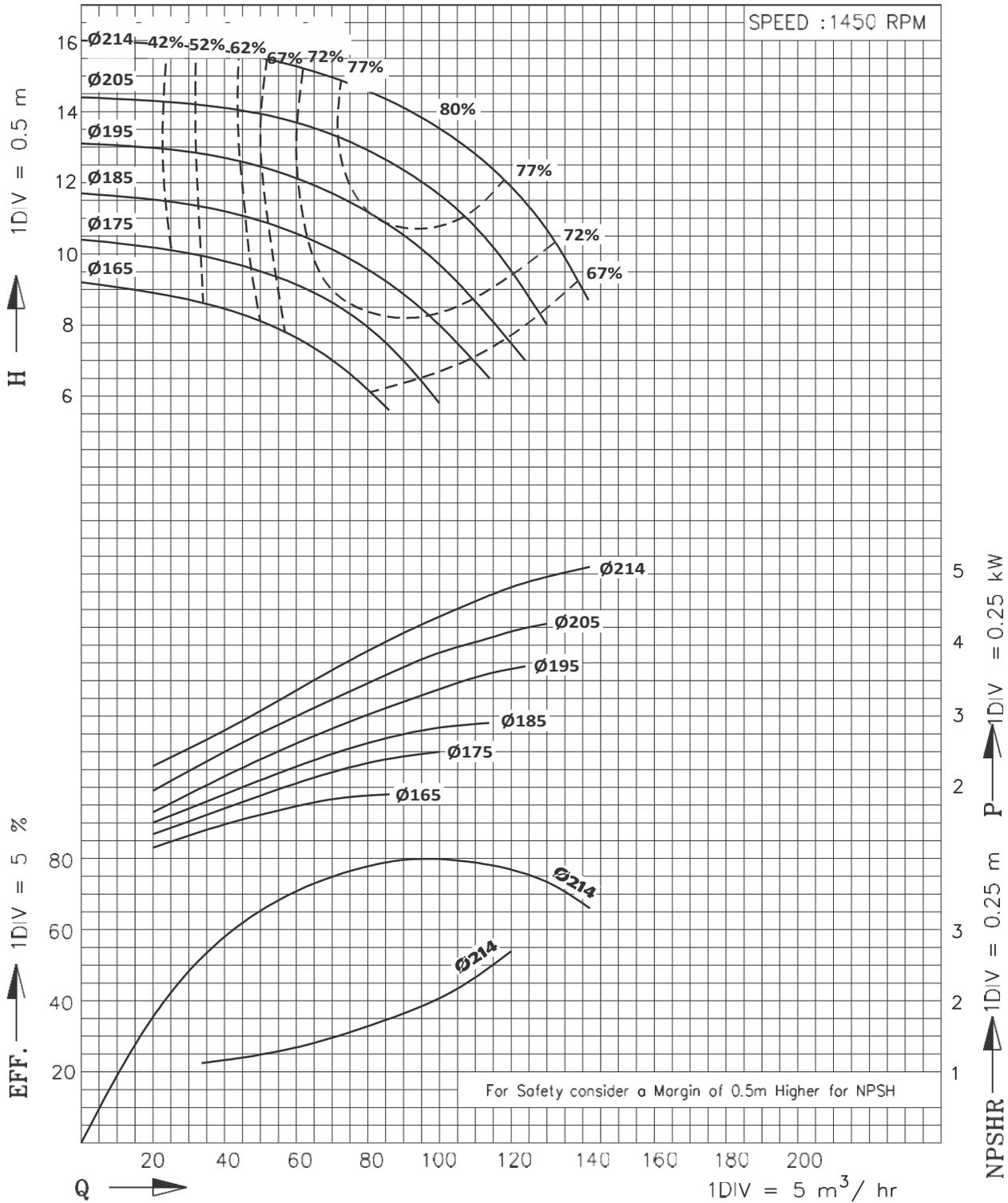


PERFORMANCE CURVE

Model : **ESAR-80/200**

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 100 x 80

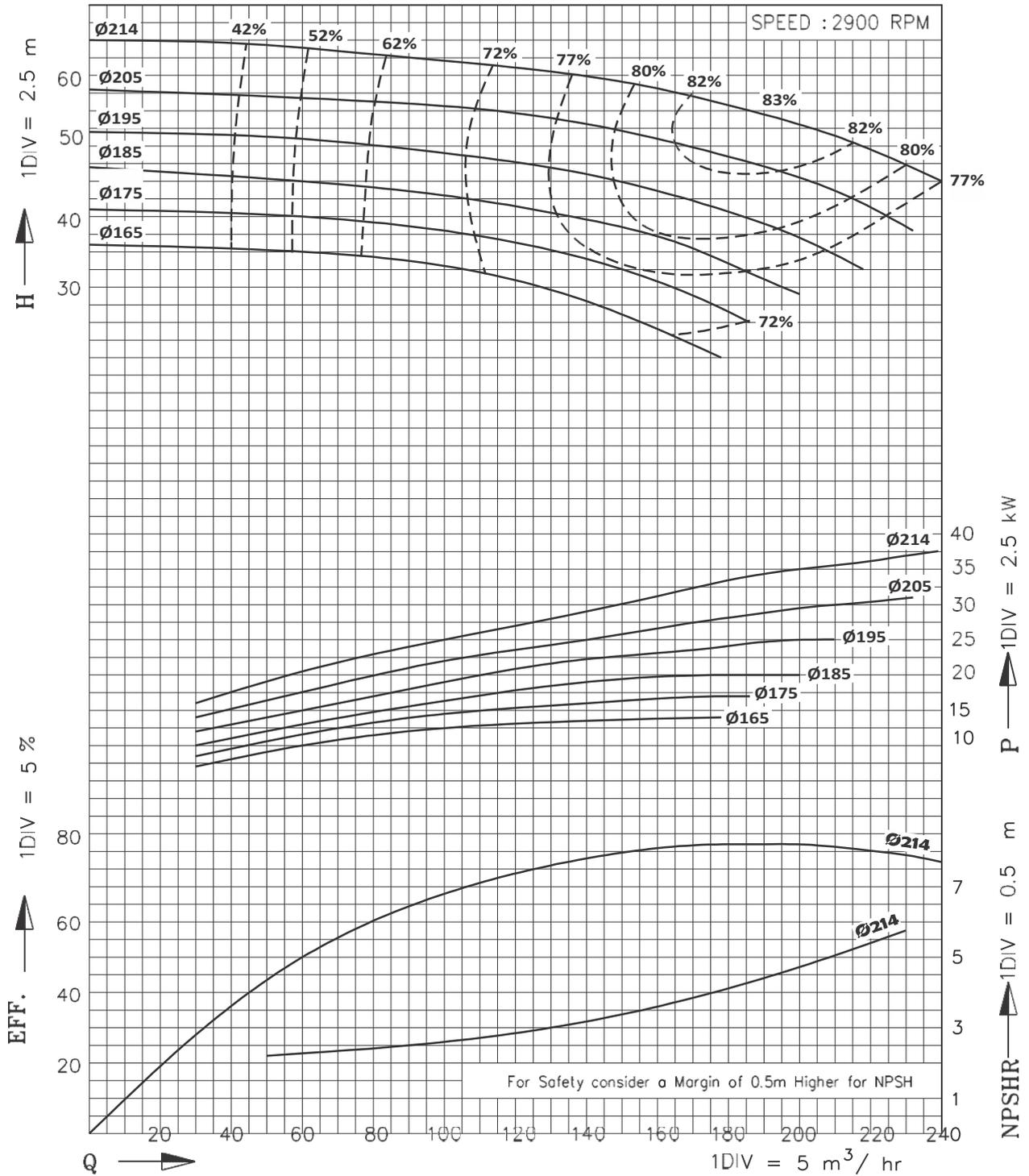


PERFORMANCE CURVE

Model : **ESAR-80/200**

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : **100 x 80**

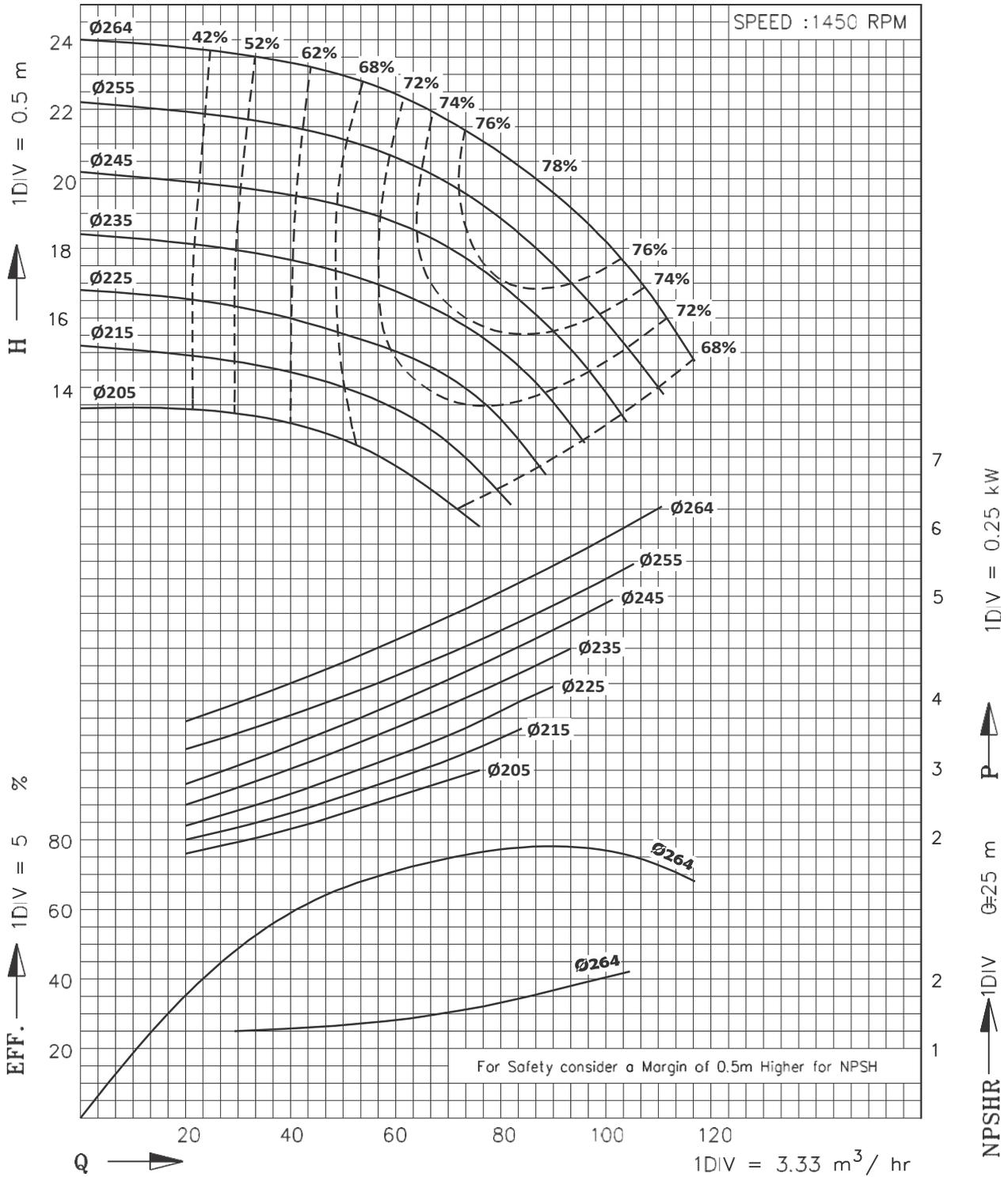


PERFORMANCE CURVE

Model : ESAR-80/260

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 100 x 80

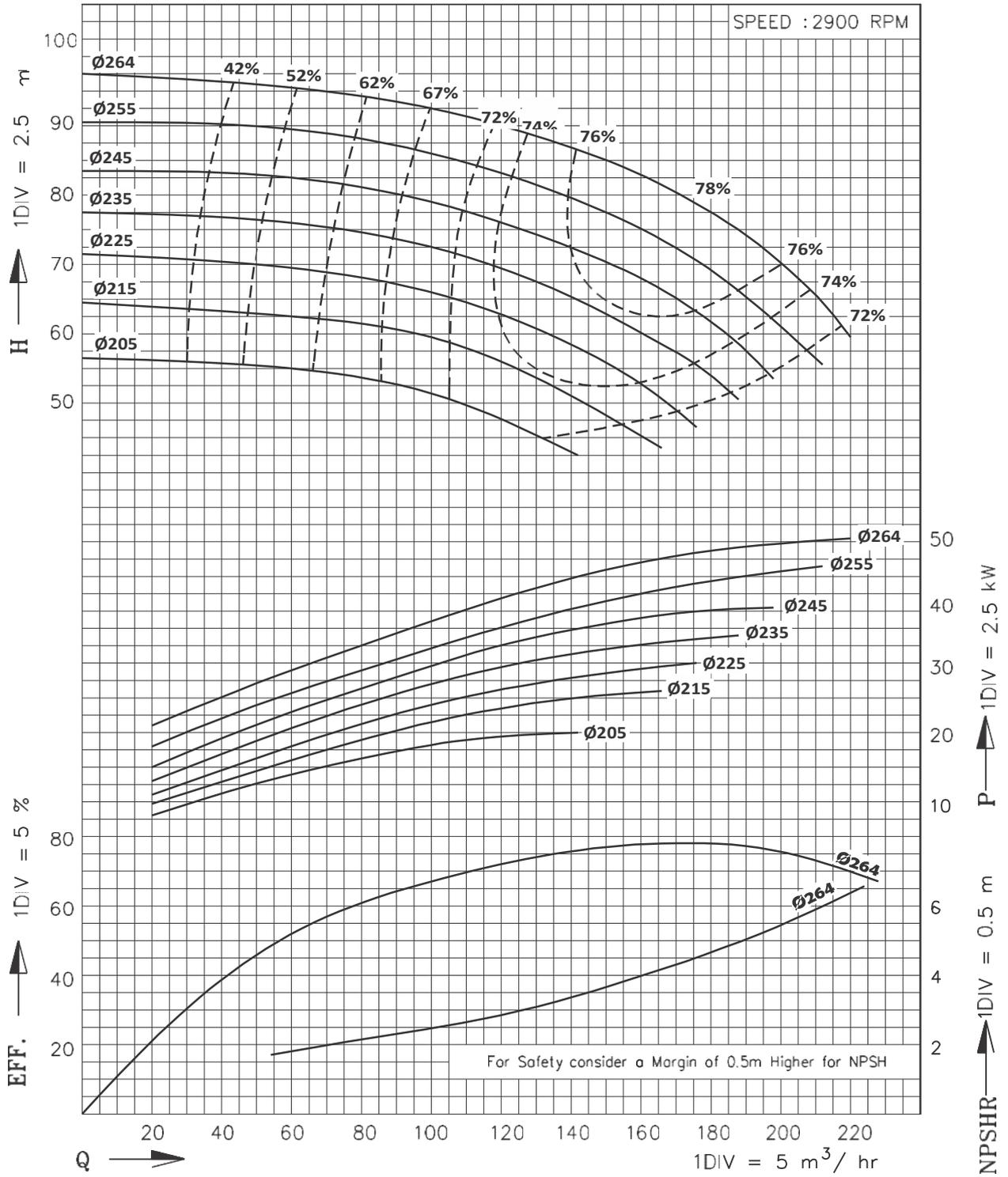


PERFORMANCE CURVE

Model : ESAR-80/260

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 100 x 80

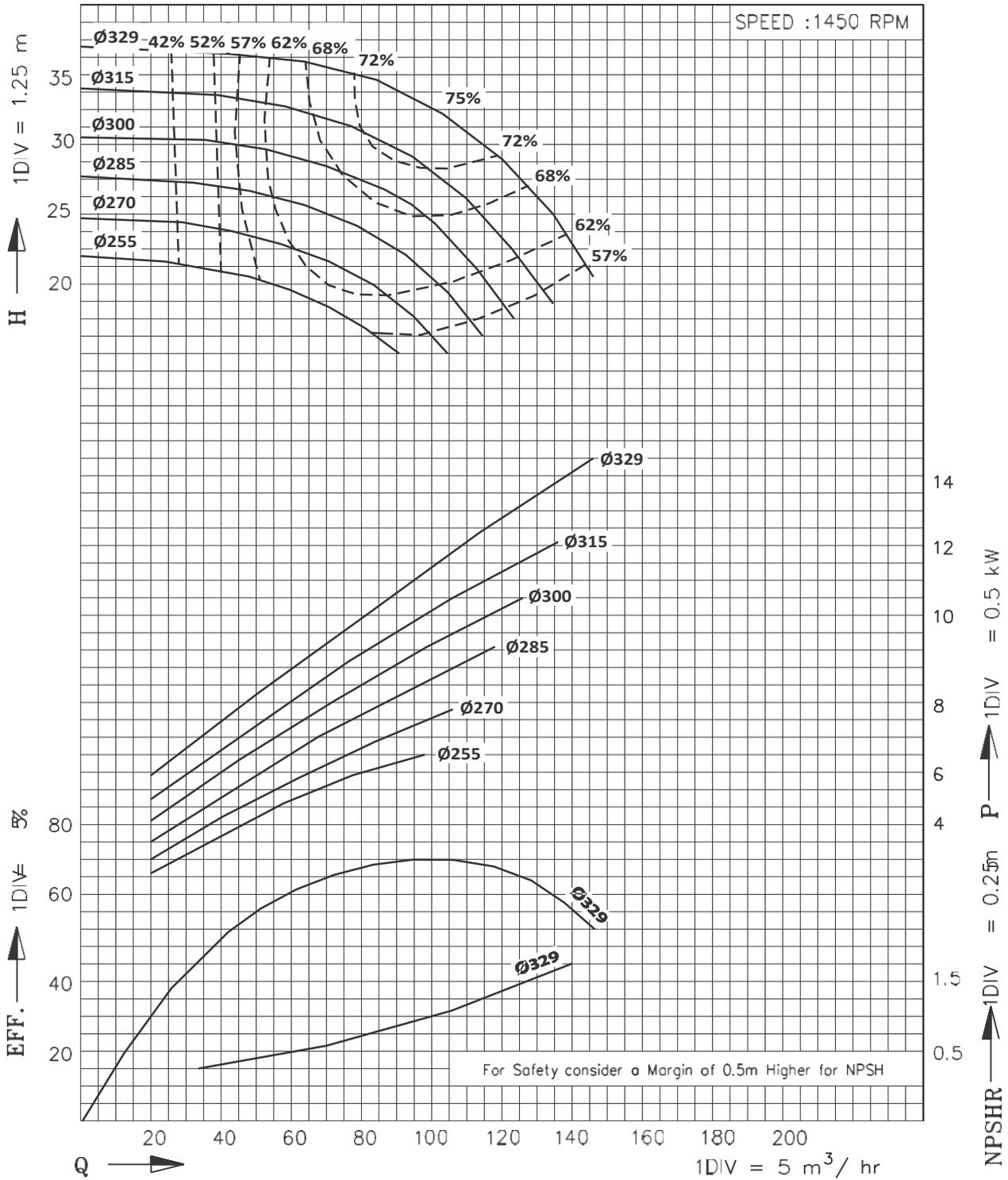


PERFORMANCE CURVE

Model : **ESAR-80/320**

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 100 x 80

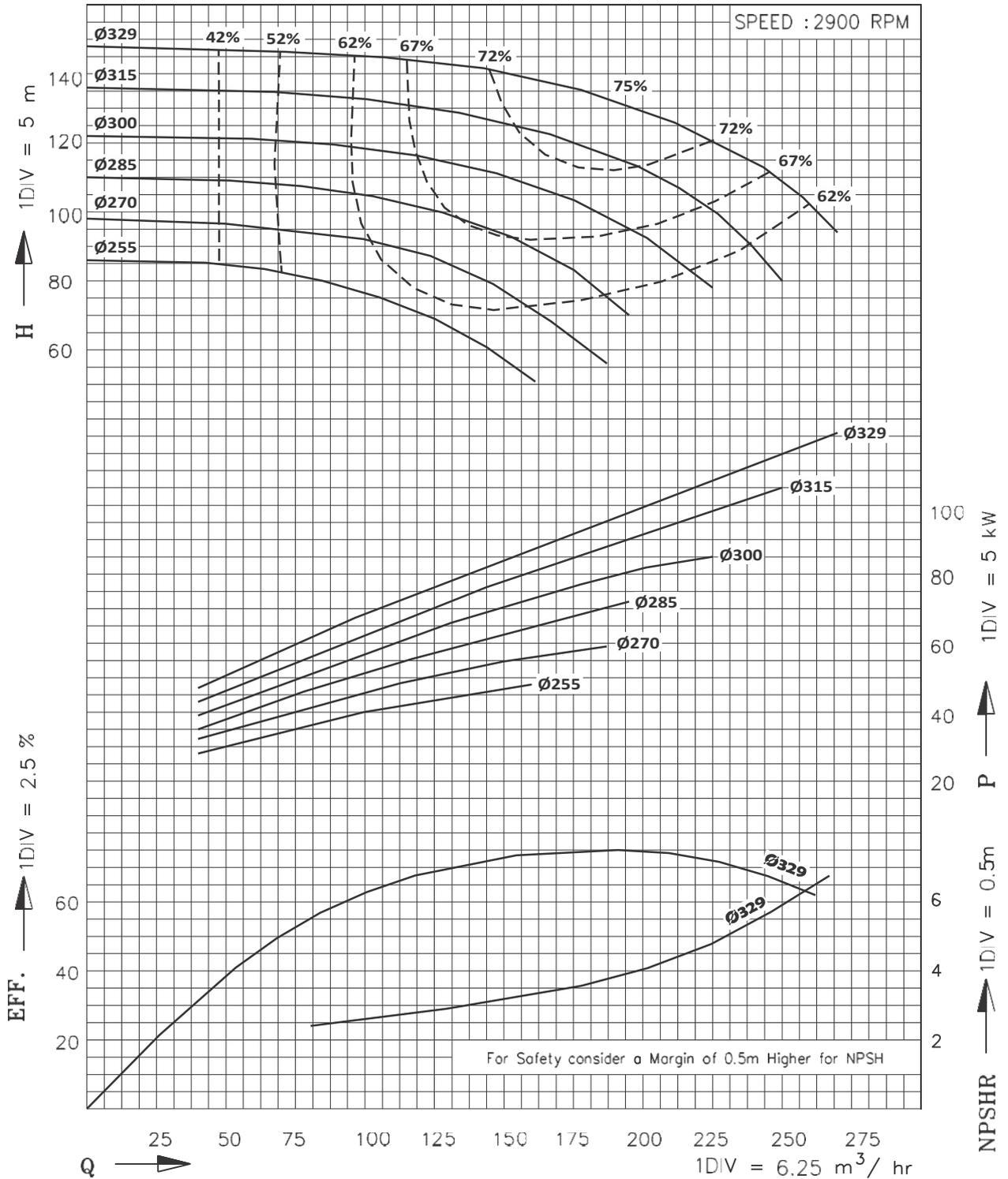


PERFORMANCE CURVE

Model : **ESAR-80/320**
On request

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 100 x 80

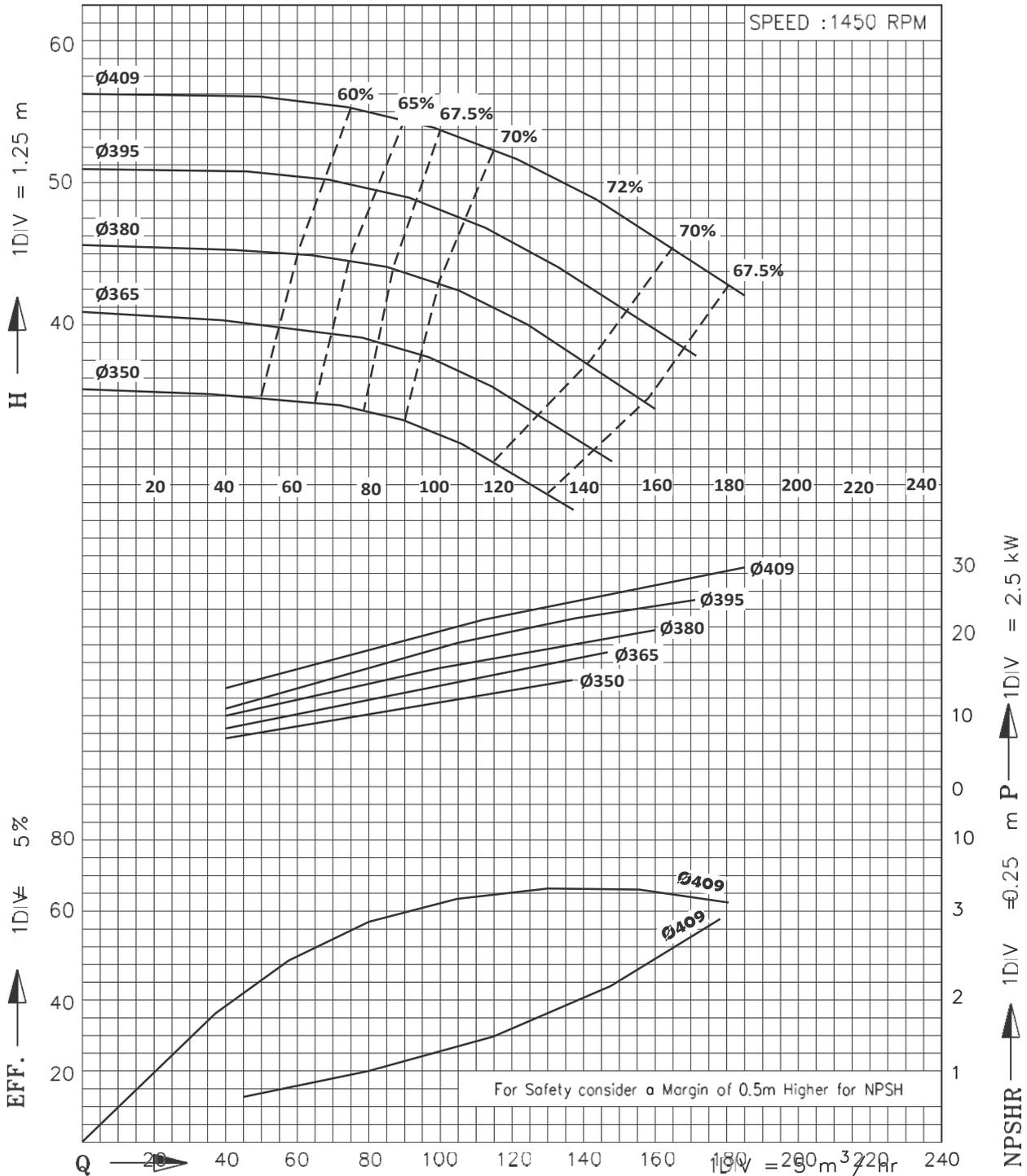


PERFORMANCE CURVE

Model : ESAR-80/400

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 125 x 80

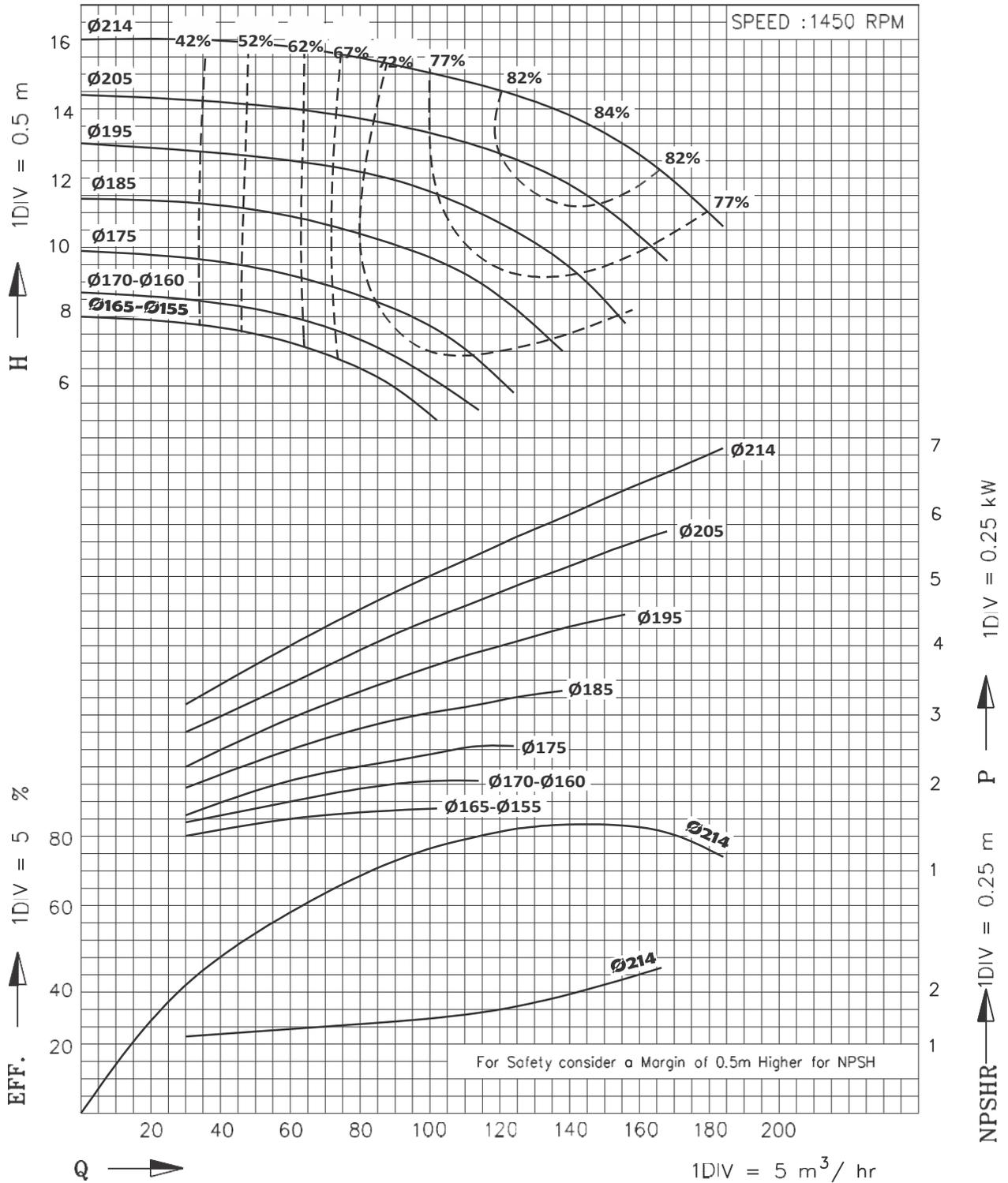


PERFORMANCE CURVE

Model : **ESAR-100/200**

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : **125 x 100**

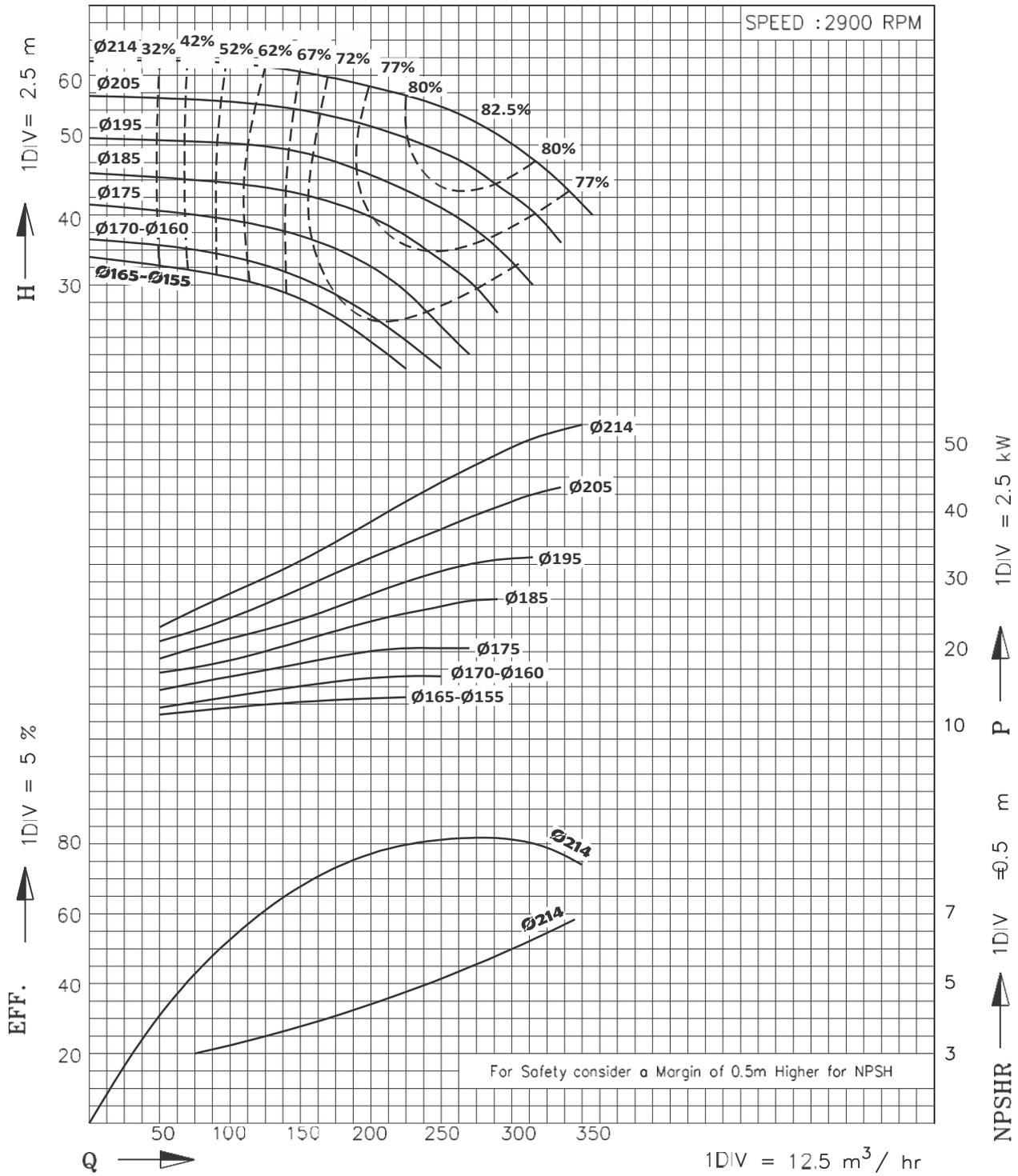


PERFORMANCE CURVE

Model : **ESAR-100/200**

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : **125 x 100**

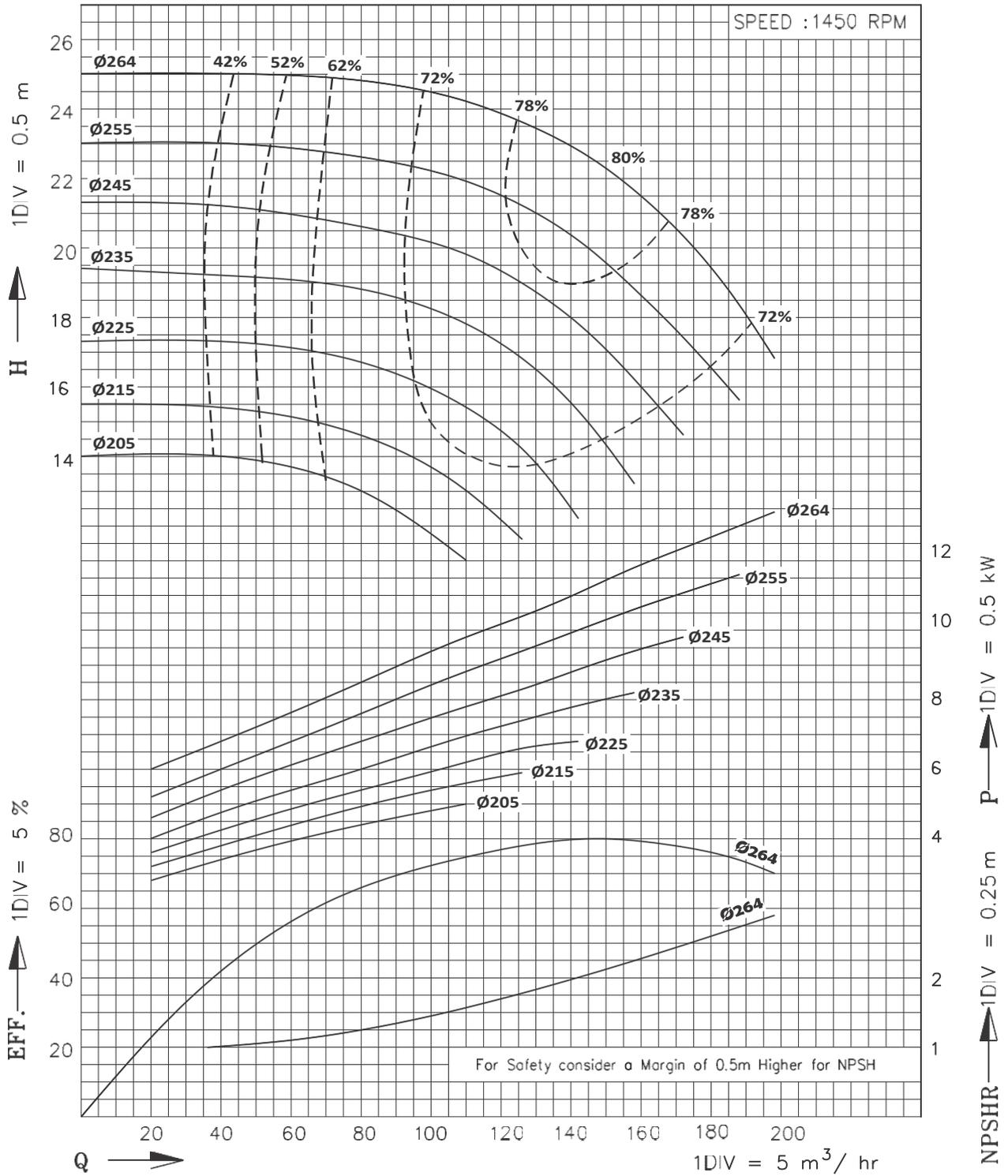


PERFORMANCE CURVE

Model : **ESAR-100/260**

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : **125 x 100**

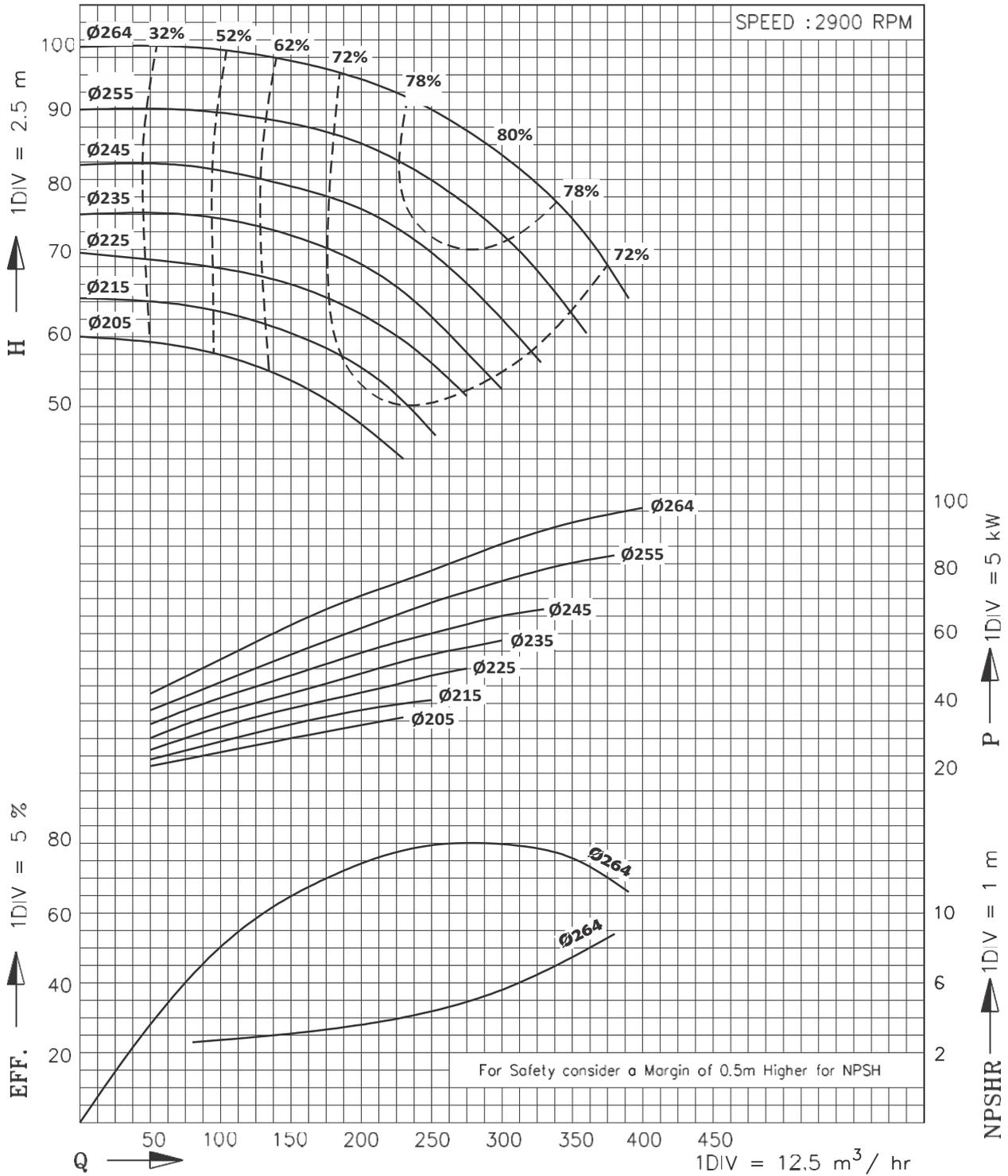


PERFORMANCE CURVE

Model : ESAR-100/260

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 125 x 100

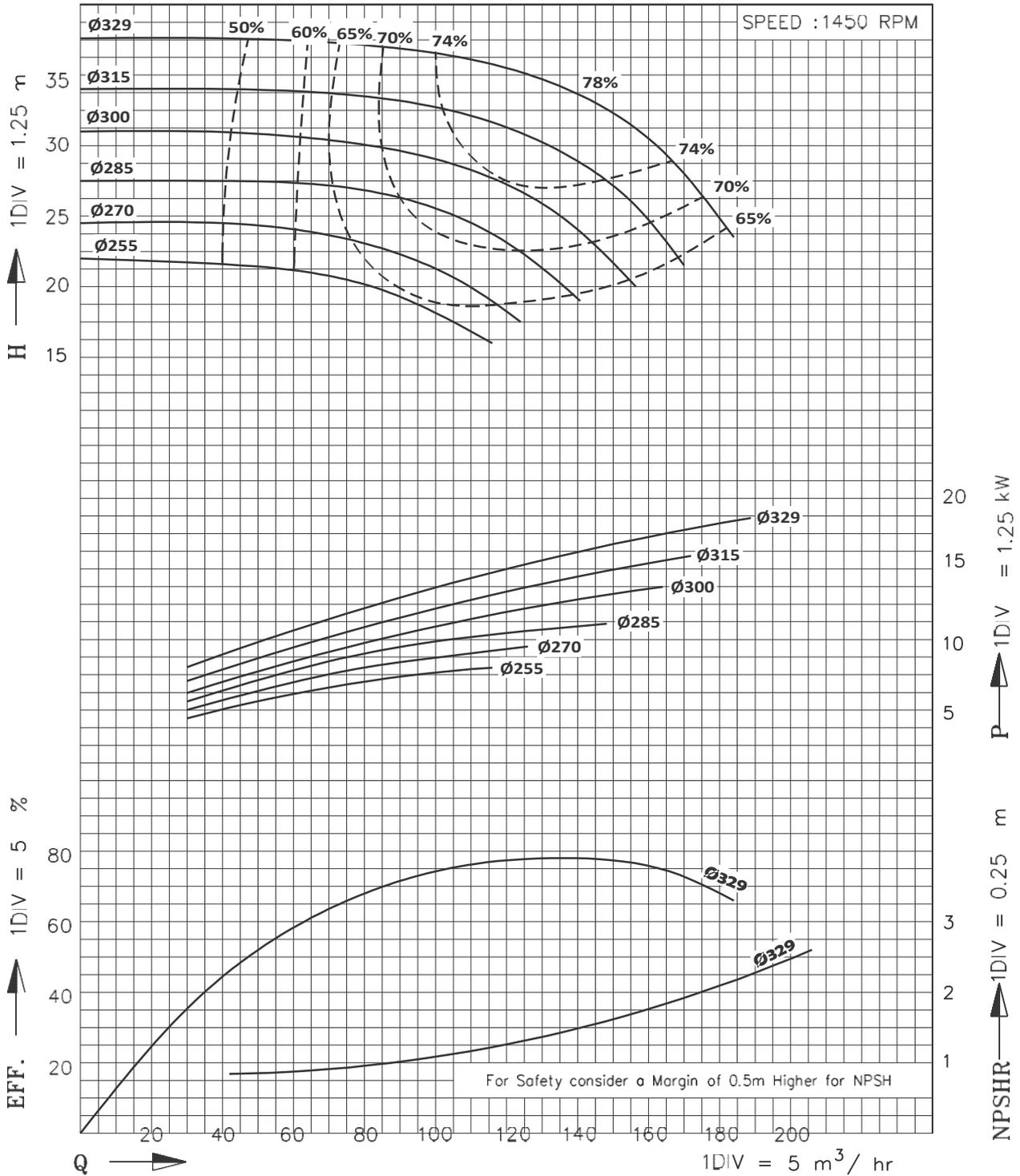


PERFORMANCE CURVE

Model : ESAR-100/320

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 125 x 100

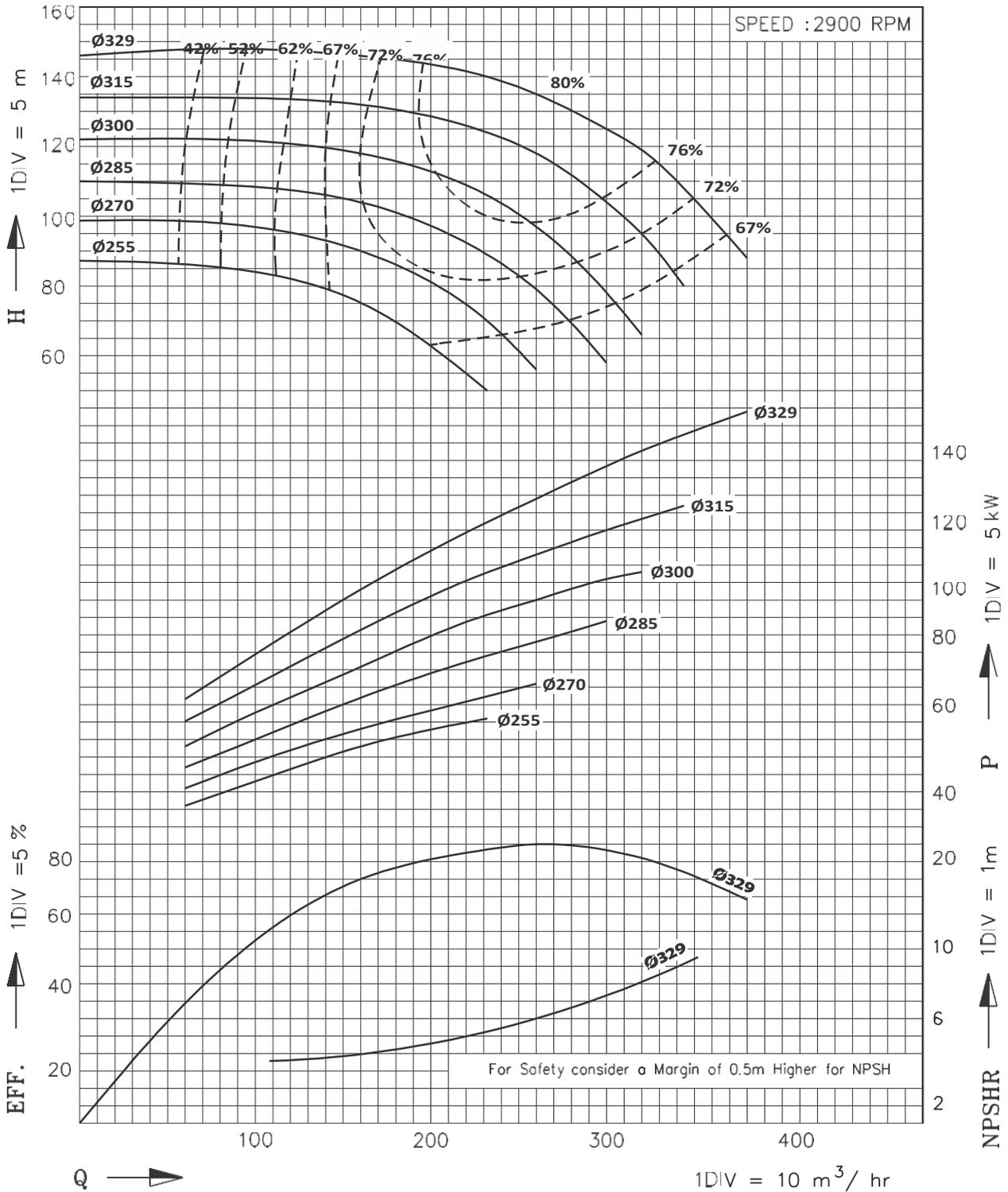


PERFORMANCE CURVE

Model : **ESAR-100/320**
On request

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : **125 x 100**

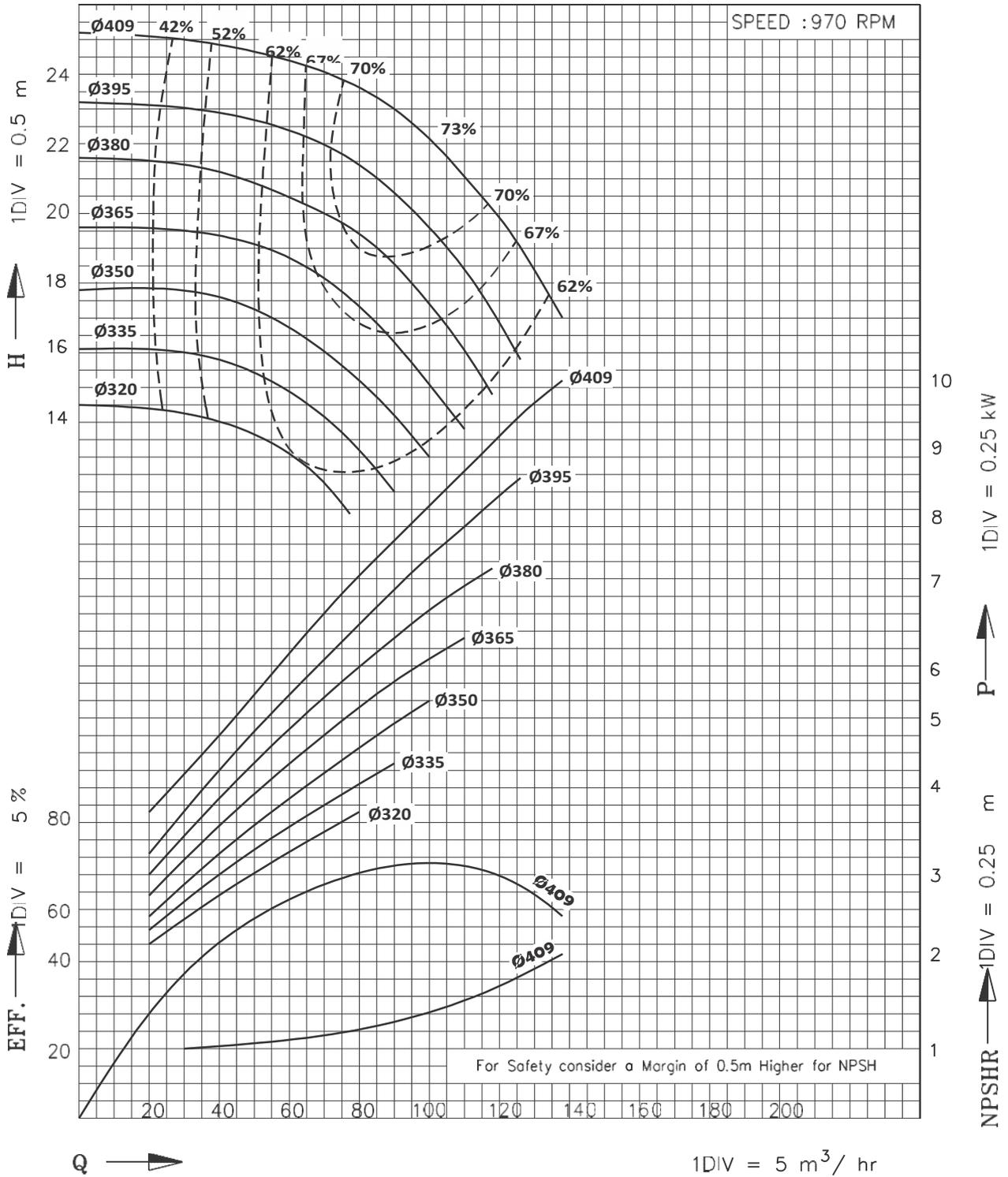


PERFORMANCE CURVE

Model : **ESAR-100/400**

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : **125 x 100**

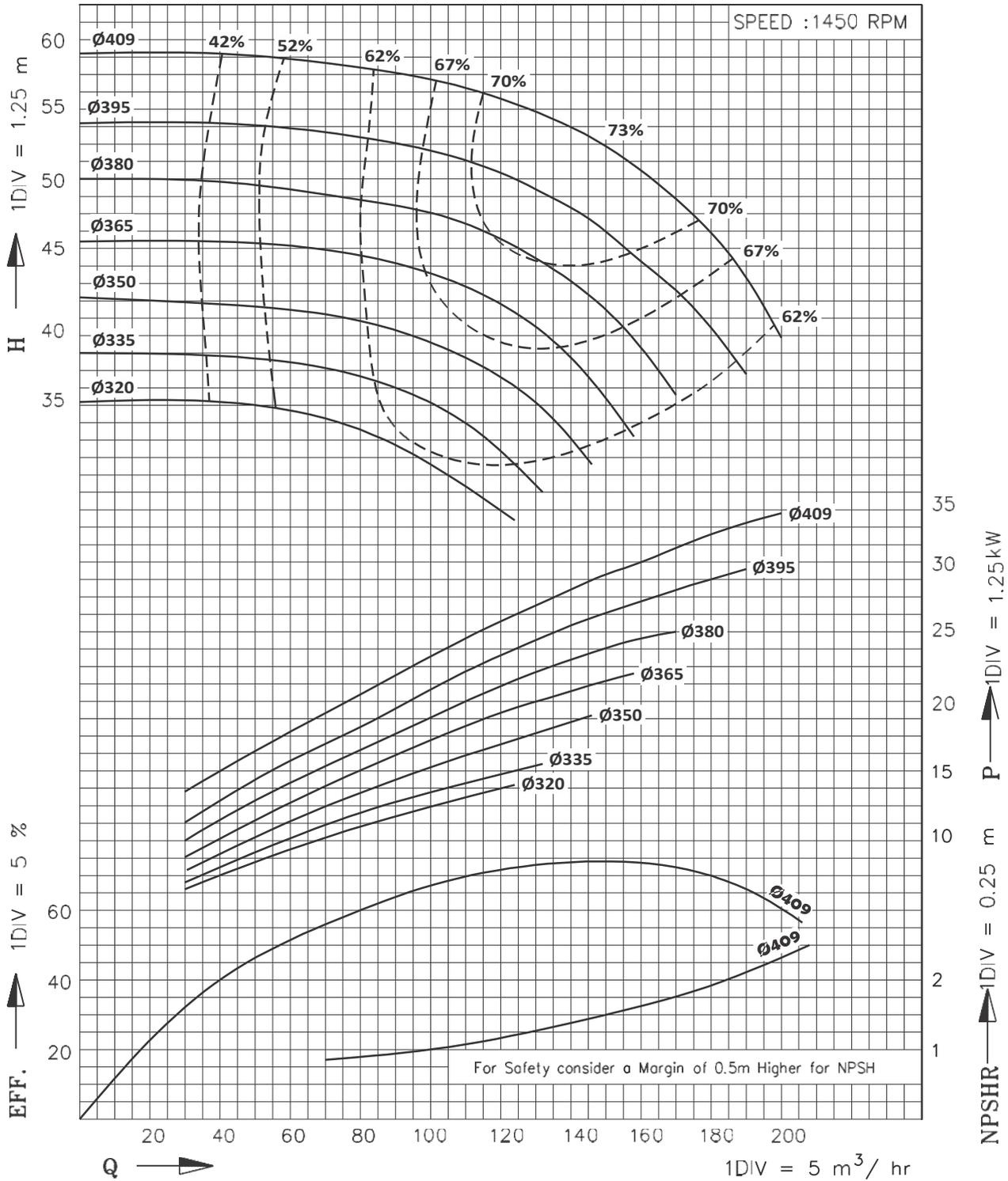


PERFORMANCE CURVE

Model : ESAR-100/400

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 125 x 100

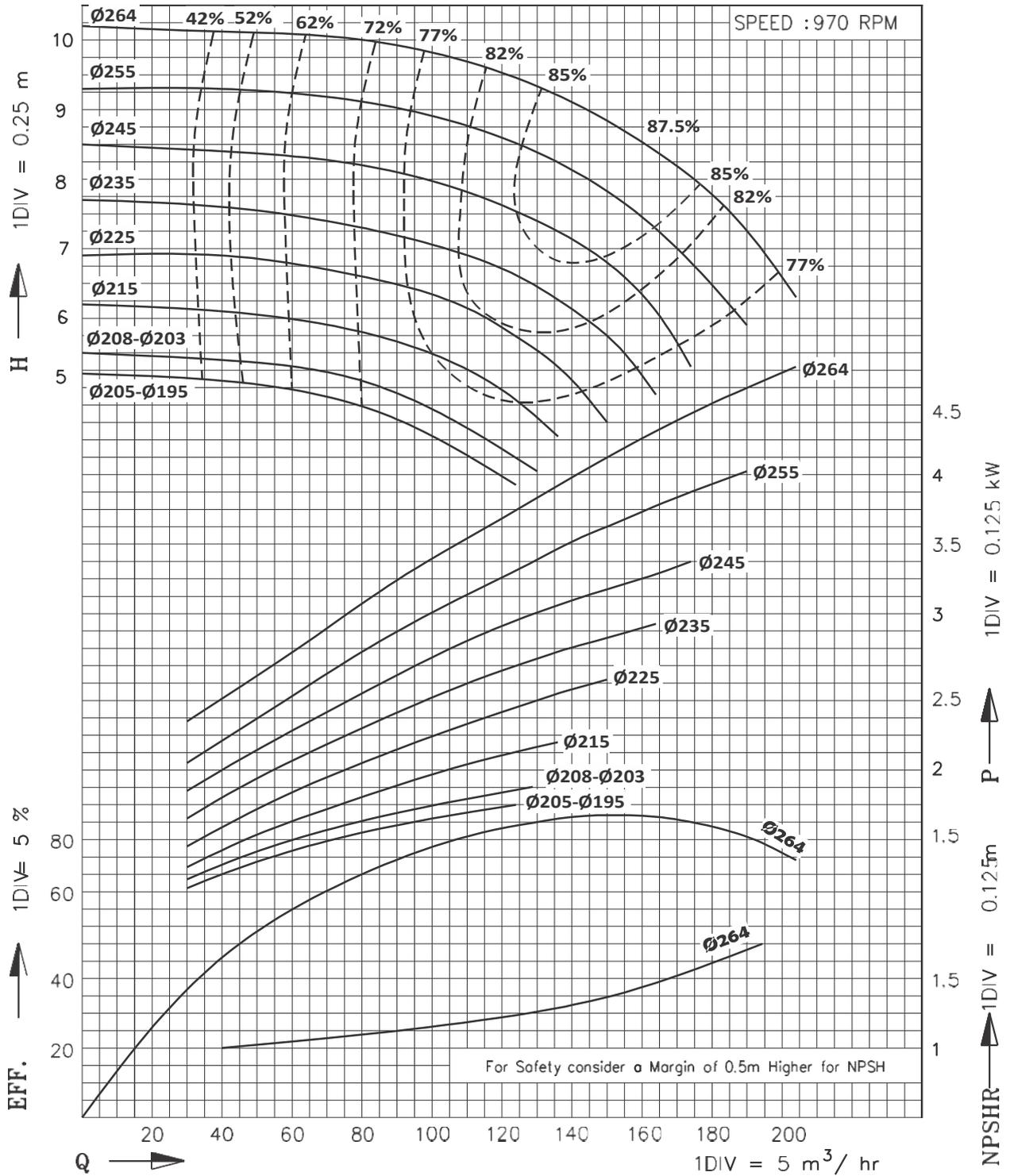


PERFORMANCE CURVE

Model : **ESAR-125/260**

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : **150 x 125**

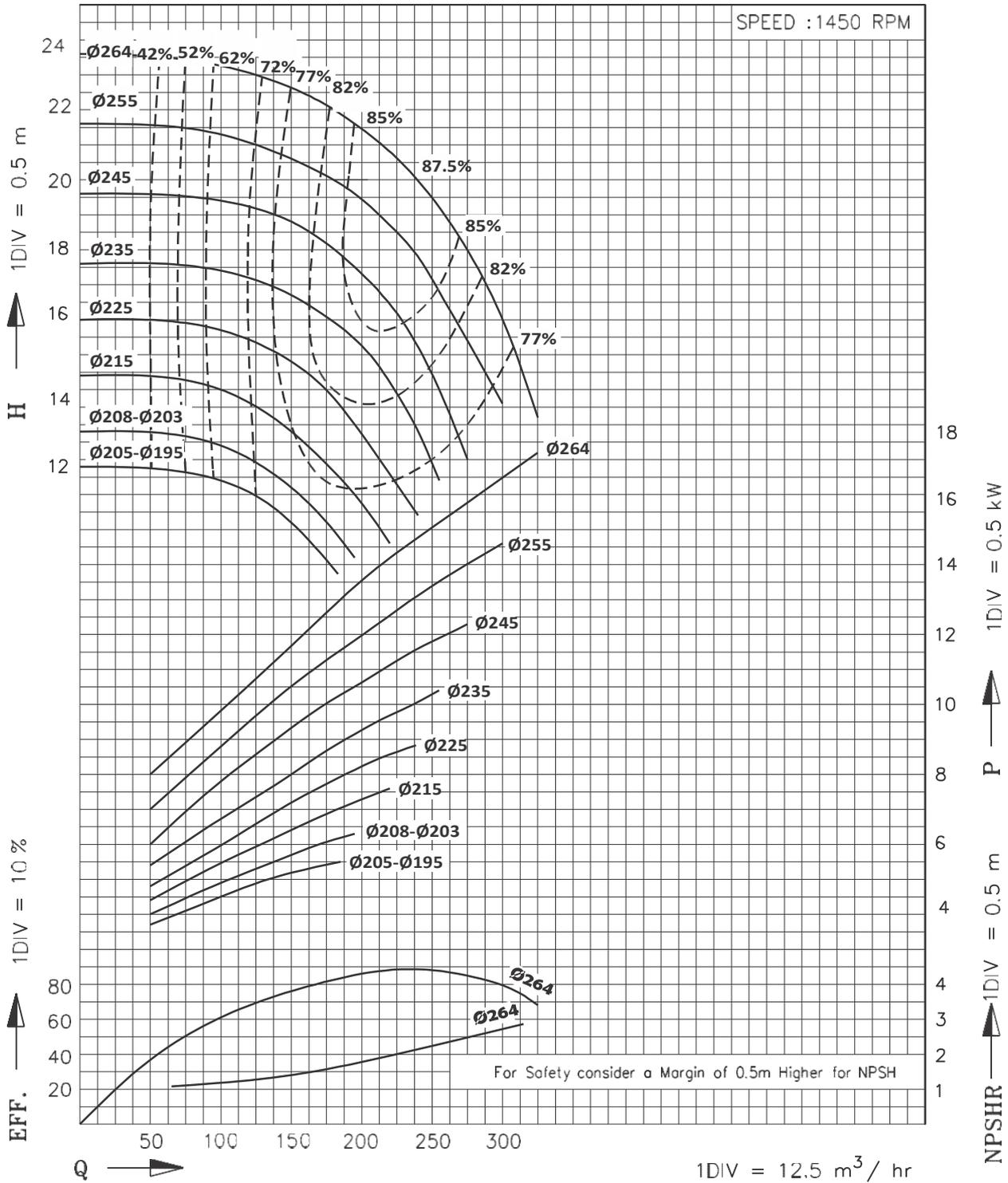


PERFORMANCE CURVE

Model : ESAR-125/260

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 150 x 125

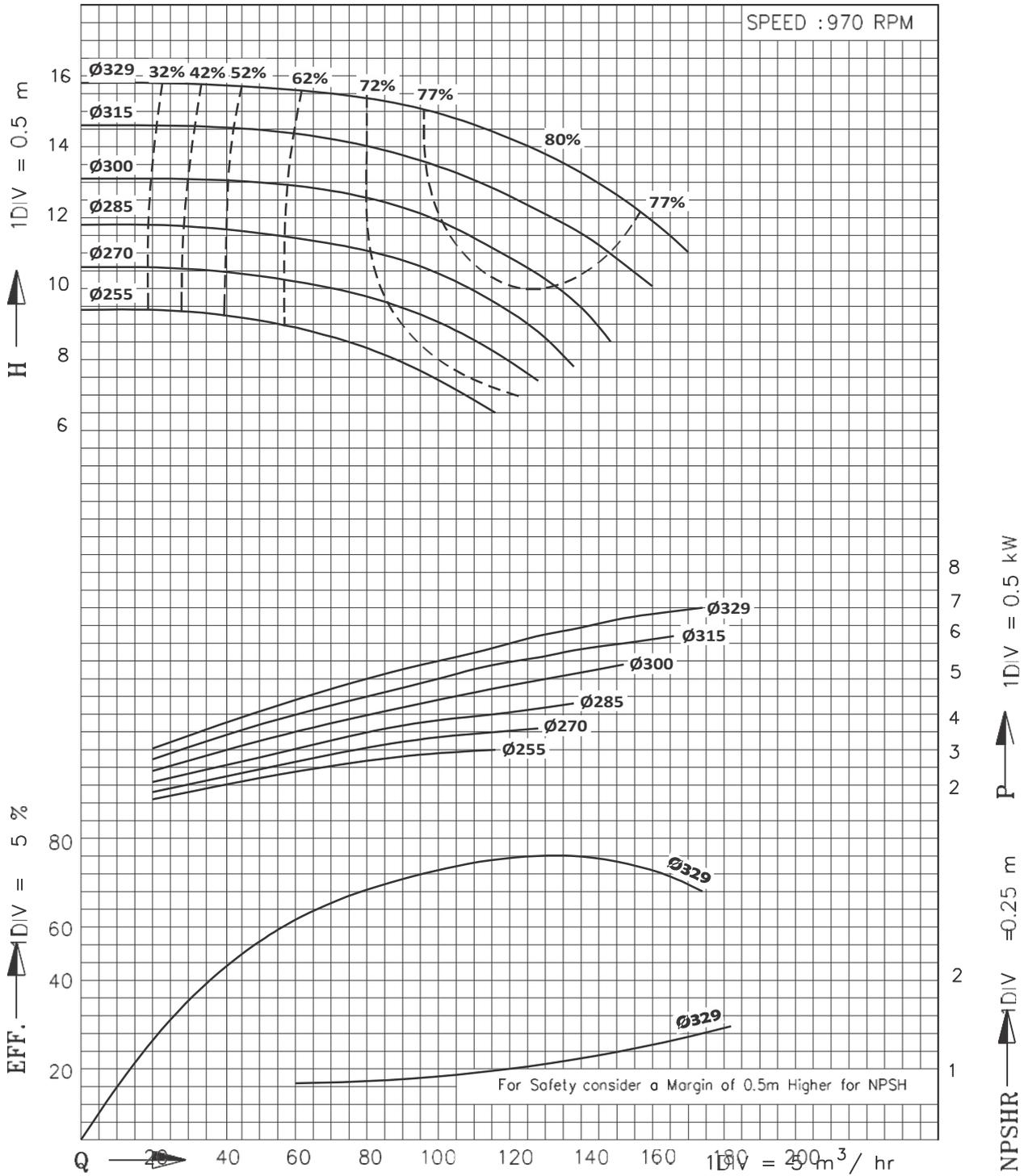


PERFORMANCE CURVE

Model : **ESAR-125/320**

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 150 x 125

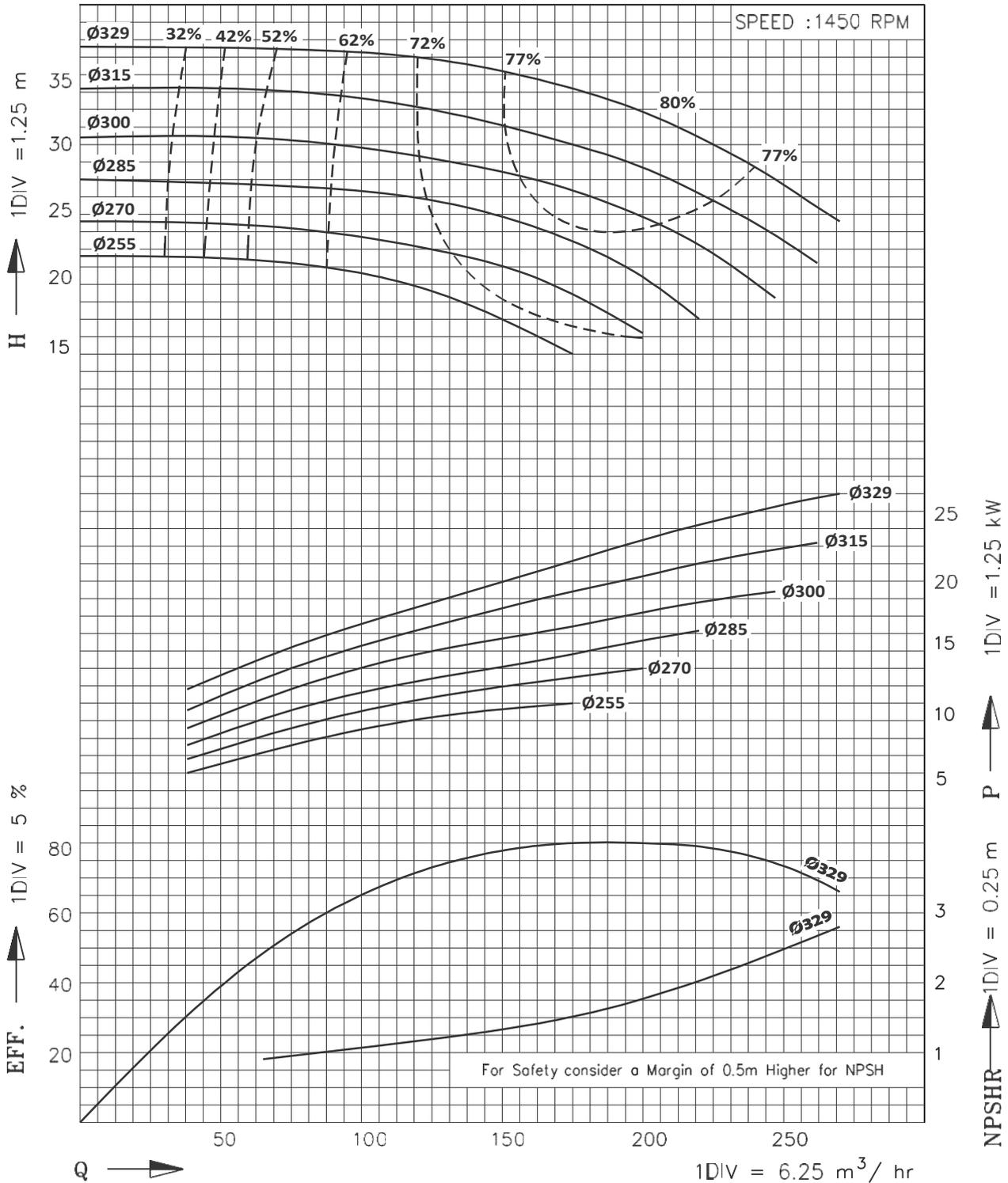


PERFORMANCE CURVE

Model : ESAR-125/320

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 150 x 125

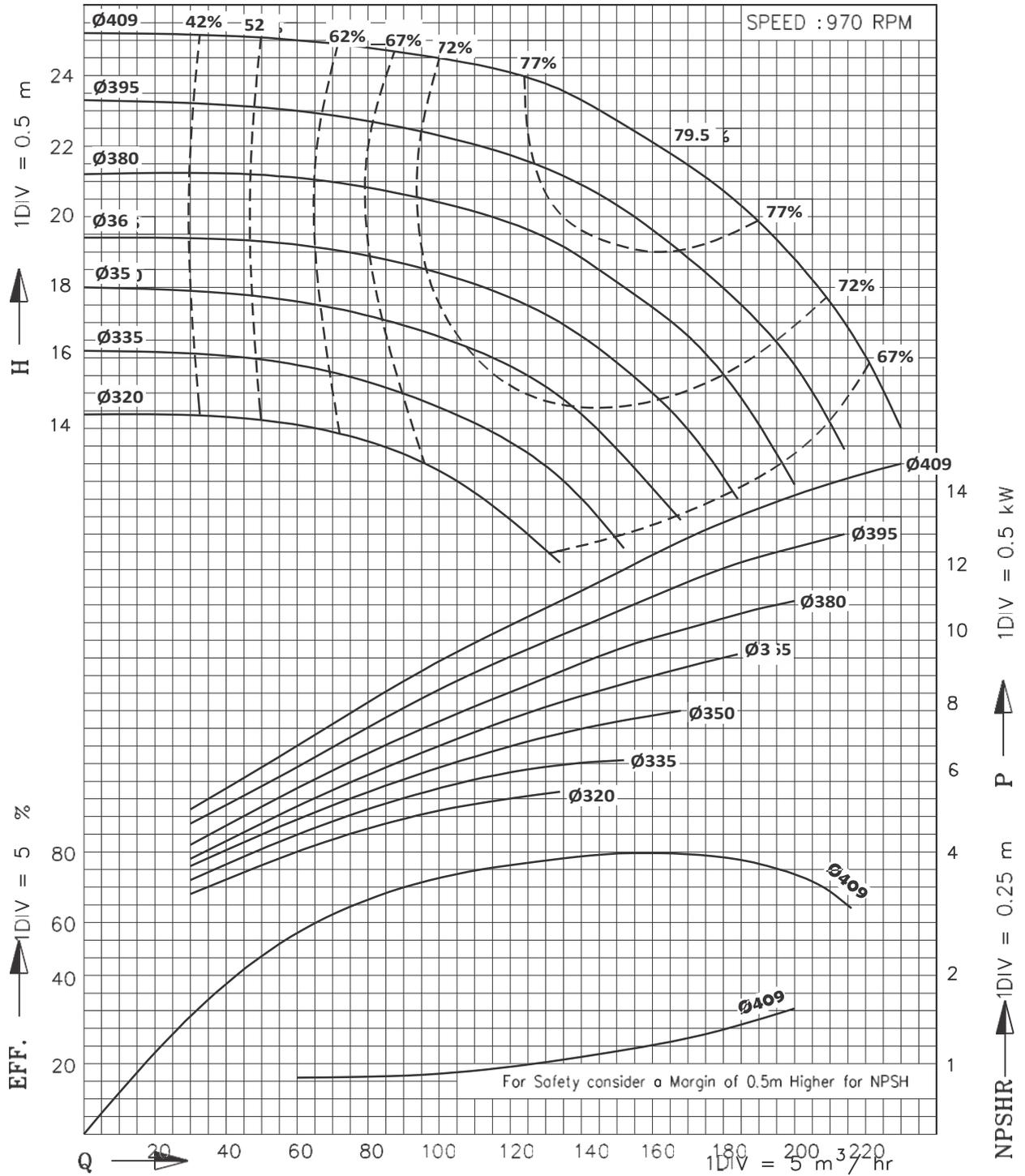


PERFORMANCE CURVE

Model : ESAR-125/400

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 150 x 125

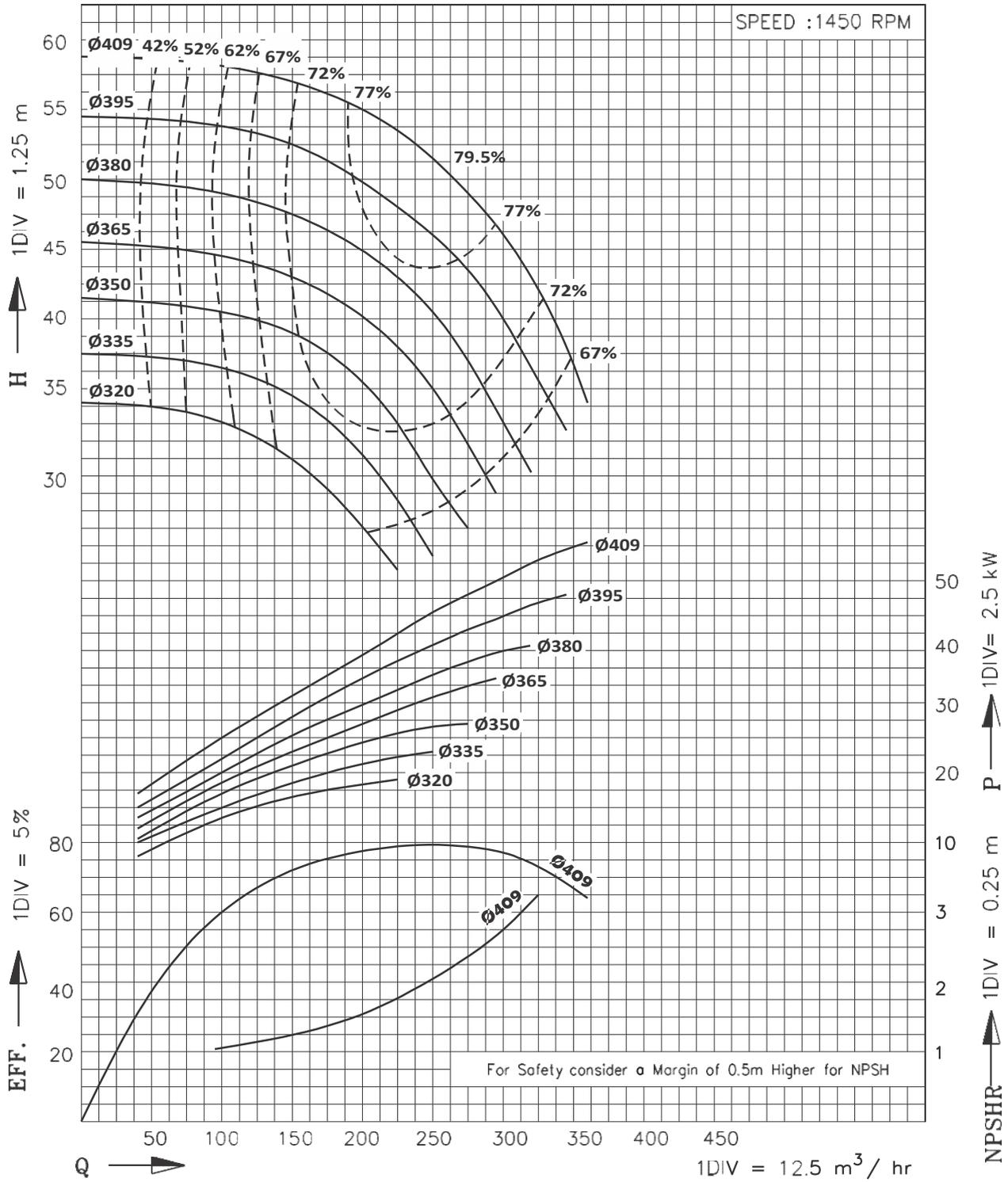


PERFORMANCE CURVE

Model : ESAR-125/400

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 150 x 125

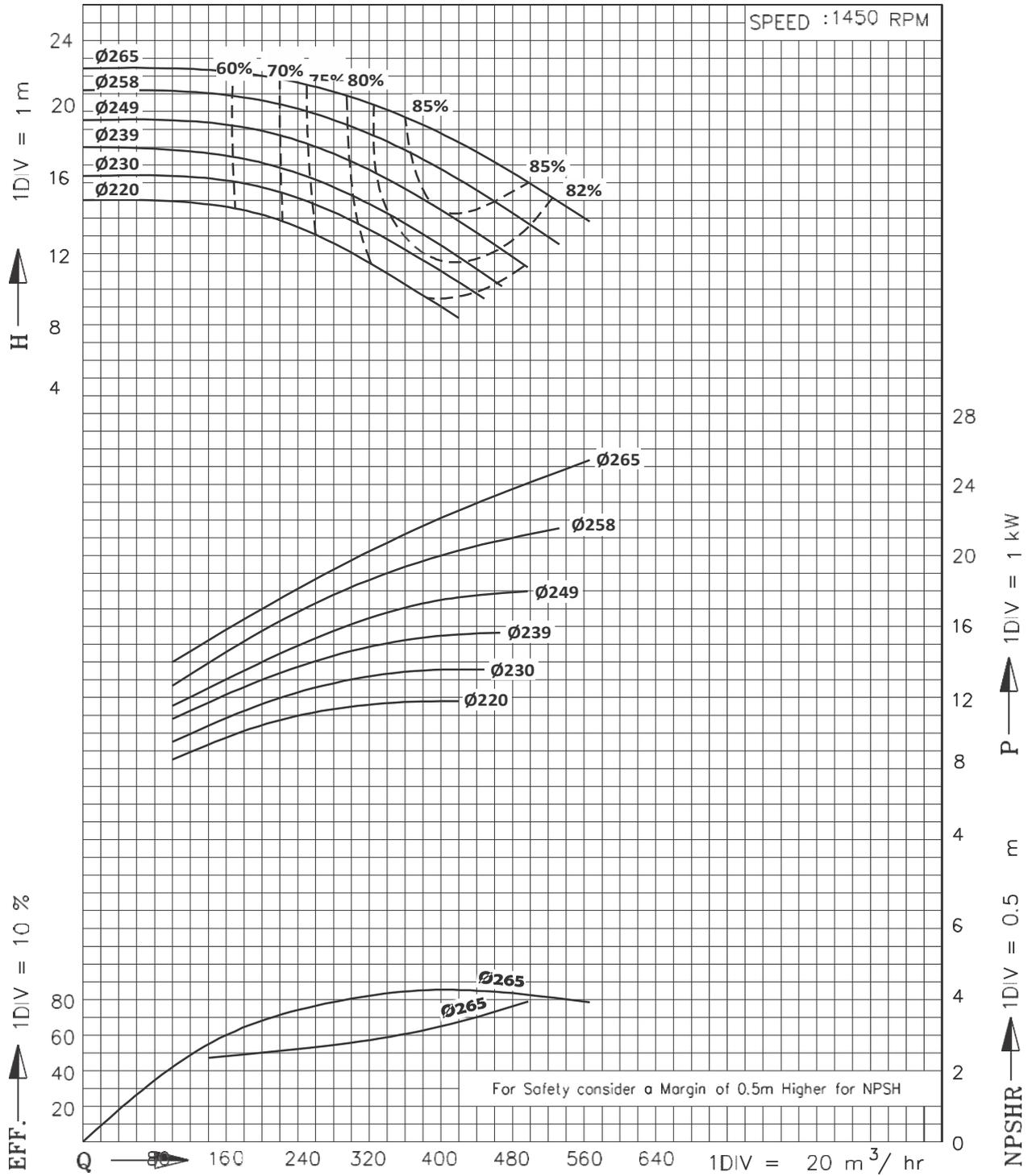


PERFORMANCE CURVE

Model : ESAR-150/260

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 200 x 150

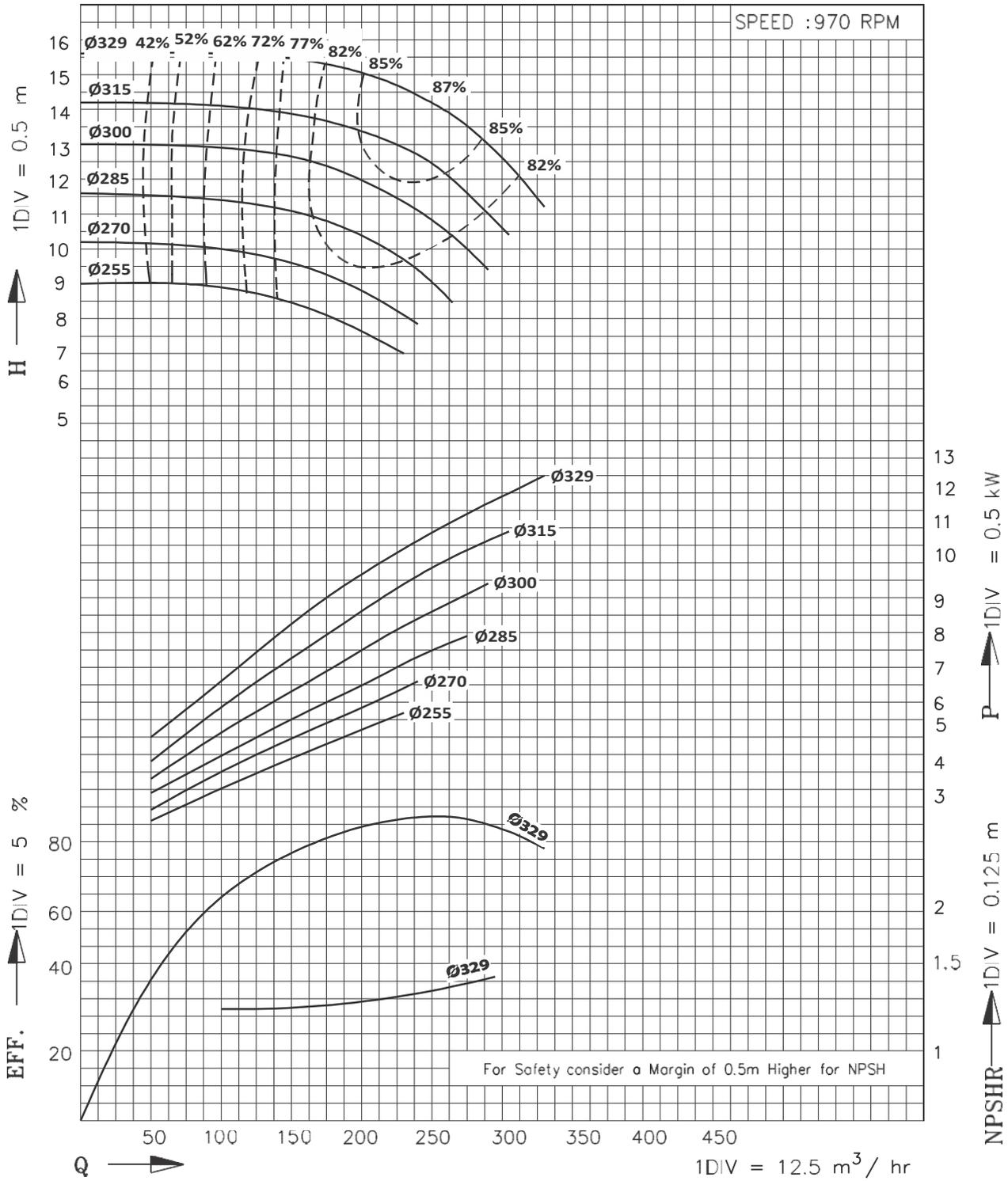


PERFORMANCE CURVE

Model : ESAR-150/320

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 200 x 150

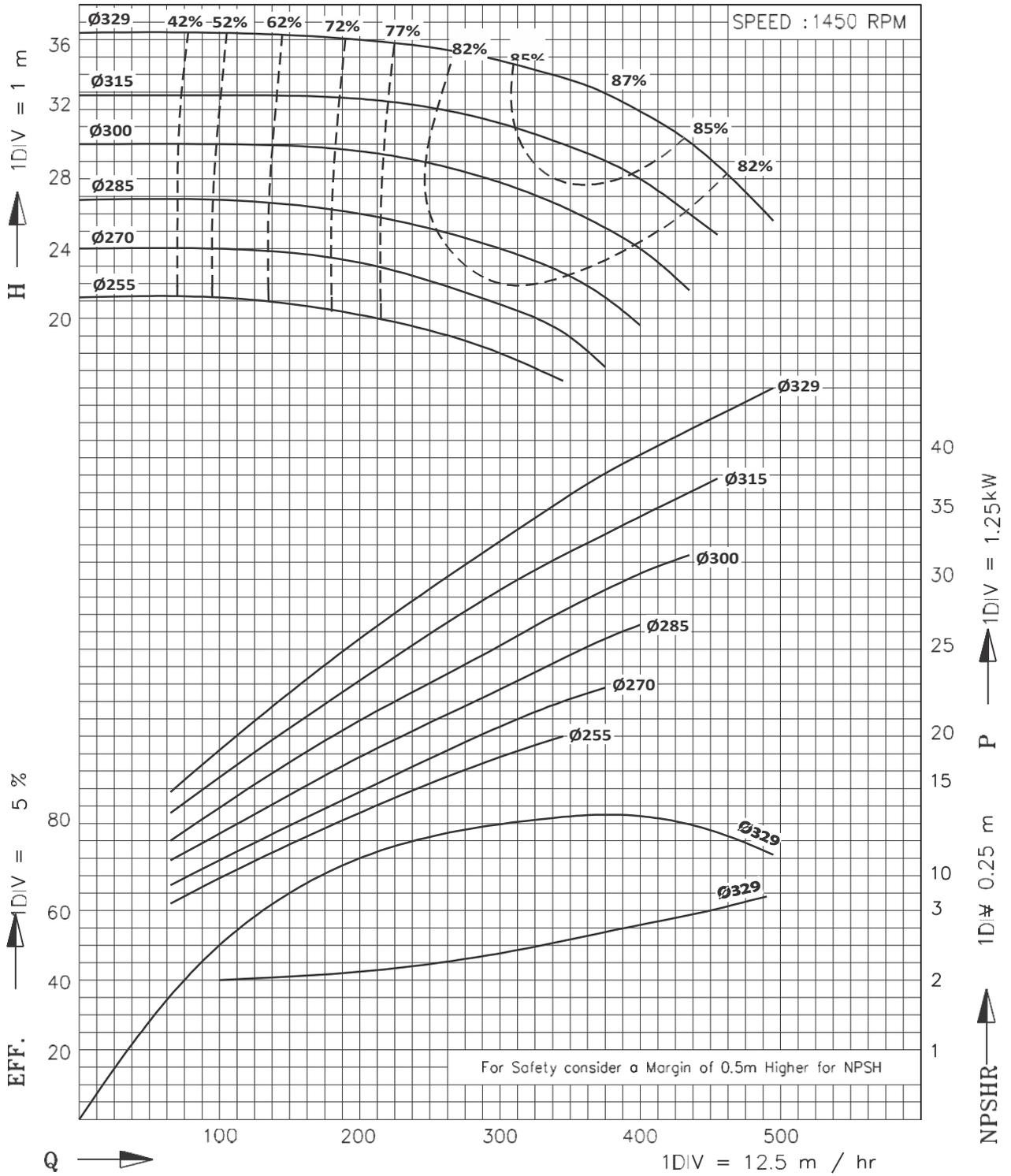


PERFORMANCE CURVE

Model : ESAR-150/320

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 200 x 150

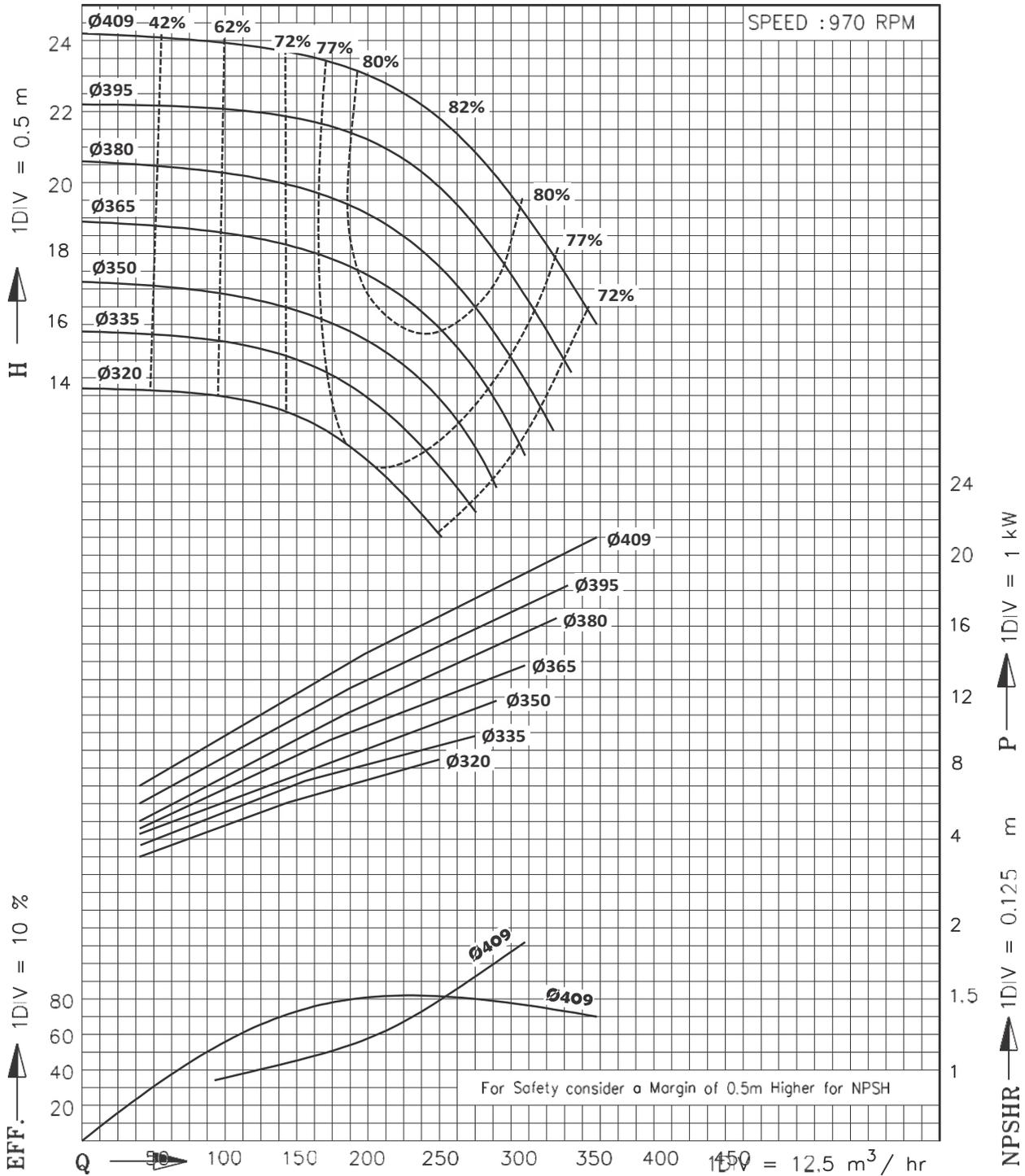


PERFORMANCE CURVE

Model : ESAR-150/400

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 200 x 150

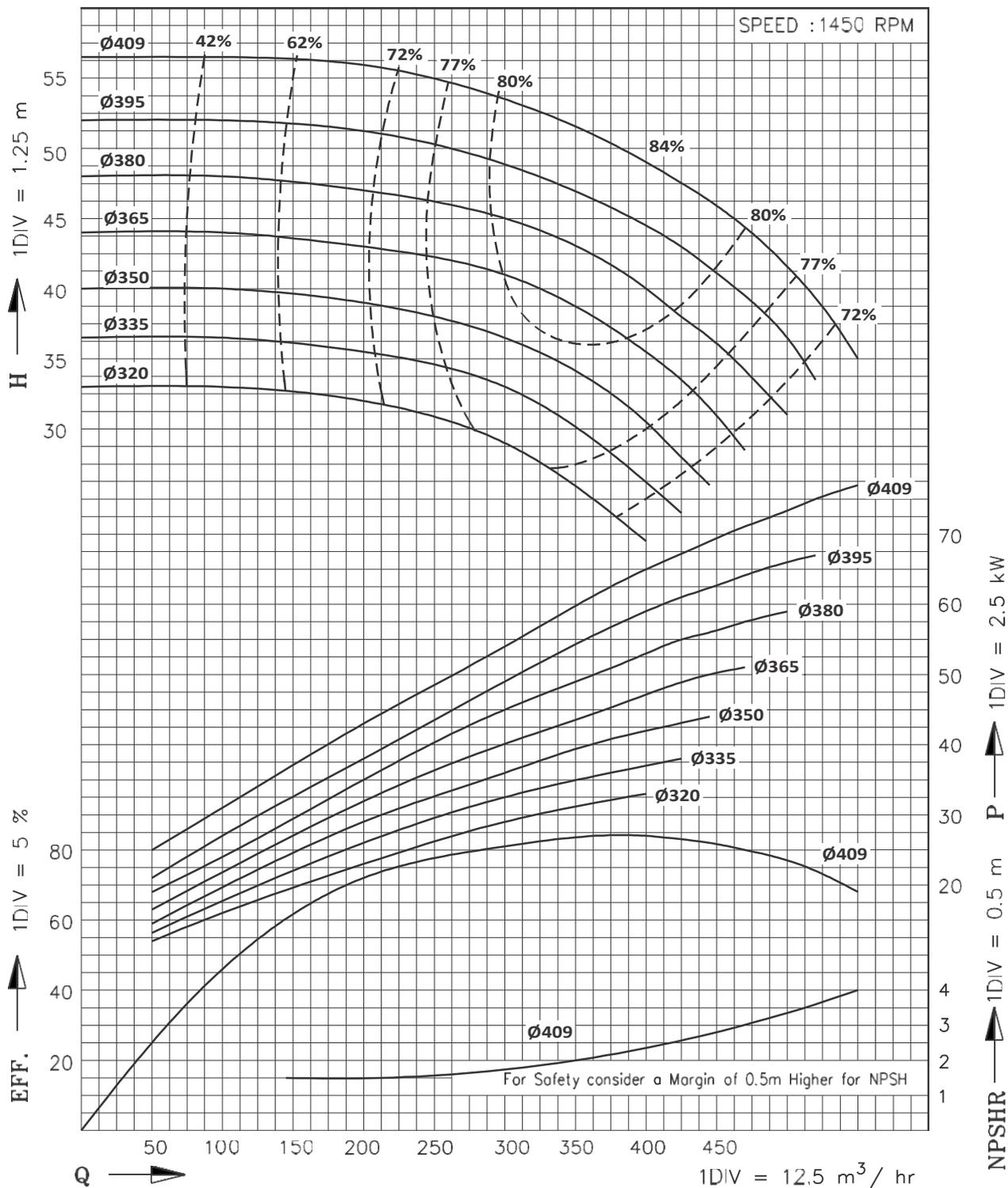


PERFORMANCE CURVE

Model : ESAR-150/400

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 200 x 150



End Suction Centrifugal Mixed Flow Pumps



AROW End suction mixed flow pumps are horizontal single stage volute casing pumps with discharge port are tangentially vertical/horizontal. These pumps features horizontal shaft components with axial suction and impellers are designed and radial discharge ports. Pumps volute chamber and impellers are carefully designed to give the best possible and suction lift characteristics.

Most modern and highly sophisticated machinery and technology are employed in the manufacture of these pumps using quality raw material, dynamically balanced impellers, seal and bearings to ensure long life.

HGCVWT GU

- Designed to allow interchangeability of their component between all individual pump sizes.
- Minimizes shaft deflection maximizes bearing and mechanical seal life.
- Heavy duty bearing ensures long life.
- Back pull out design facilitates dismantling the pump without disconnecting the pump casing from the pipes.
- Dimensions and characteristics according to DIN 24255 standards.
- Available both in mechanical seal and soft packed stuffing box design.

CRRNKE CVKQP U

- Water supply
- Irrigation
- Pressure boosting
- Fire protection
- Heating and air conditioning systems
- Circulation and transfer of clean, chemically non-aggressive water and liquids
- General industrial services
- Water supply to swimming pool, fountains.
- Dewatering
- Pumping sea water
- Sugar Industry

GENERAL INFORMATION - ESAM SERIES

End Suction Centrifugal Mixed Flow Pumps

OPERATING LIMITS

Outlet size range	: DN200 to 450mm
Flow range	: Upto 3600 m ³ /h
Total Head range	: Upto 45m
Operating temperature with soft packed stuffing box	: 60°C
Operating temperature with mechanical seal	: 60°C
Maximum working pressure	: 16bar

MATERIALS OF CONSTRUCTION

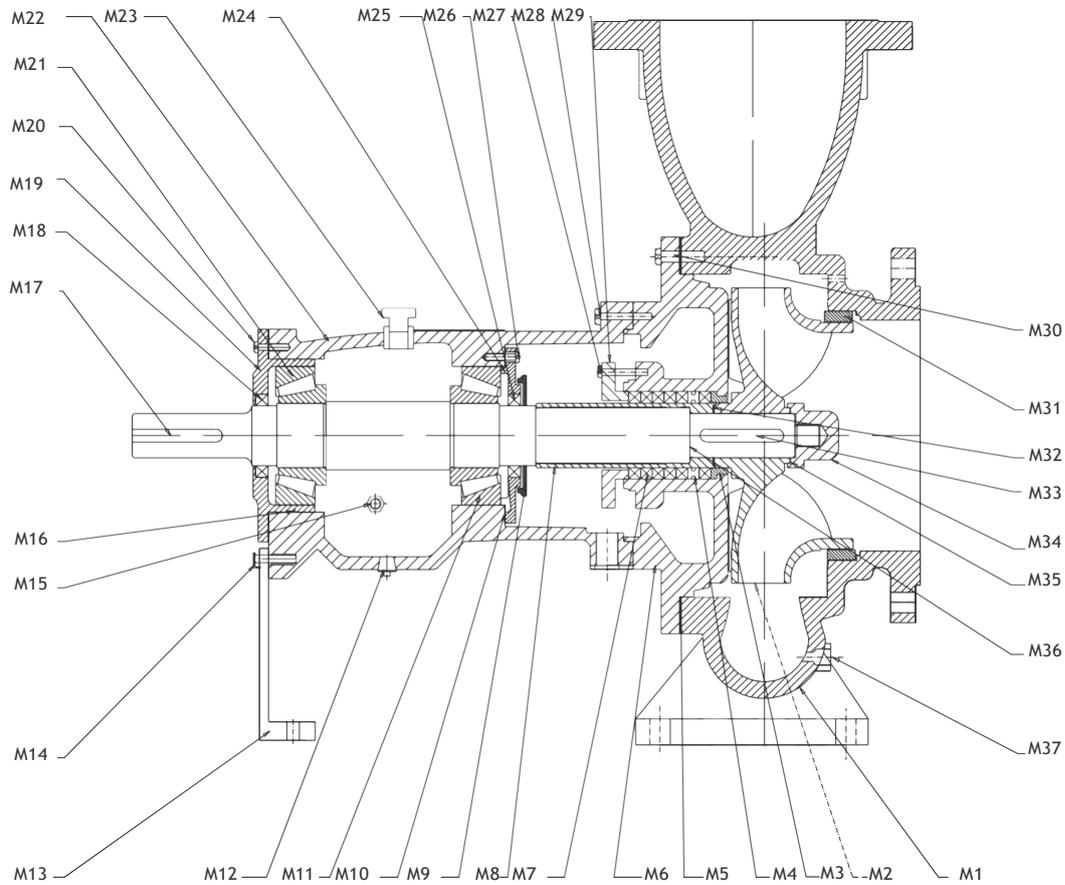
Pump Parts	Type C	Type B	Type S
Volute Casting	C.I	C.I	SS 304
Stuffing box	C.I	C.I	SS 304
Gland	C.I	C.I	SS 304
Suction Cover	C.I	C.I	SS 304
impeller	C.I	BRONZE	SS 304
Pump Shaft	BS 970 En-8	BS 970 En-8	SS 304 / 316
Shaft Sleeve	SS 410	SS 410	SS 410
Lantern Ring	BS 970 En-8		
Gland Packing	TIGA		
Fasteners	BS 970 En-8		
C.I : IS 210 FG 200		BRONZE: IS 318Gr.2	
AISI 410 : Bar stock Stainless Steel ASTM A.743 Type 410			

TECHNICAL DATA

PUMP TYPE	SUCTION SIZE 'mm'	DELIVERY SIZE 'mm'	OIL SEAL SIZE	BEARING	GD ² -Value Kg-m ²	PUMP WEIGHT "kg"
200/320	250	200	90 X 65 X 10	312314 X 2 NOS	0.175	290
200/400	250	200	90 X 65 X 10	312314 X 2 NOS	0.380	310
250/320	250	250	90 X 65 X 10	312314 X 2 NOS	0.390	310
250/270	200	250	35 X 50 X 9 40 X 62 X 9	6408 X 2 - 51212 X 1	0.060	260
300/320	300	300	90 X 65 X 10	312314 X 2 NOS	0.220	360
250/400	300	250	75 X 100 X 10 80 X 90 X 10	3316 - NU 316	0.946	360
450/550	400	450	105 X 75 X 15 105 X 72 X 15	6415 X 2 - 51320 X 1	1.590	1425

GENERAL INFORMATION - ESAM SERIES

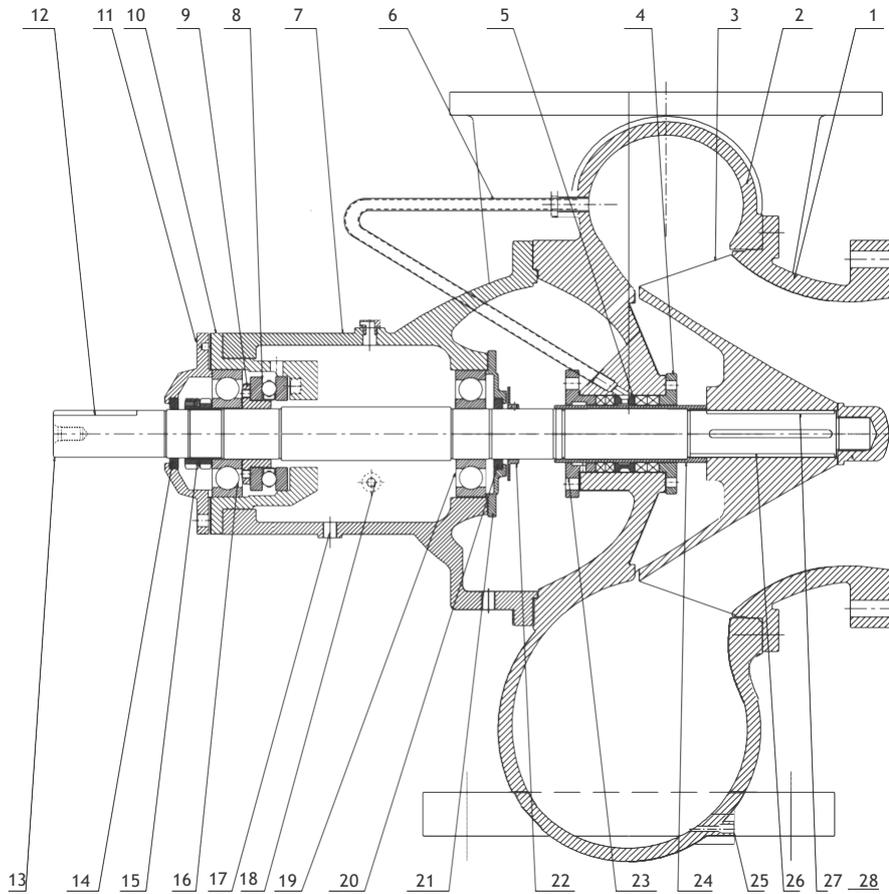
CROSS SECTIONAL DRAWING



Code No	Part Name	Material	Qty
M1	Volute Casing		1
M2	Impeller		1
M3	Lay Brith Nech Ring		1
M4	Lantern Ring		1
M5	Gasket Casing		1
M6	Casing Cover		1
M7	Gland Packing	Tiga / Ptfе	1set
M8	Shart steeve		1
M9	Defector		1
M10	Gasket Inner Bearing Cover		1
M11	Bearing Pump End	Steel	1
M12	Plug (oil Drain)	Bs 970 En8	1
M13	Support Foot	Is 226 C.15	1
M14	Support Foot Bolt	En8	1
M15	Oil Level Sight Glass	Aluminium	1
M16	O Ring Adopter		1
M17	Key (coupling)	Bs 970 En8	1
M18	Oil Seal (drive End)65x90x10		1
M19	Bearing Adopter	Is210 Fg 200	1
M20	Adopter Bolt	Ms	1
M21	Bearing Drive End	Bs 970 En8	1
M22	Bearing Bed	En8	1
M23	Vent	Pp	1
M24	Bearing Cover (inner)		1
M25	Oil Seal (pump End)65x90x10		1
M26	Brg Cap / Brg Housing Bolt	Is210 Fg 200	1
M27	Gland Stud & Nut	Is 210 Fg 200	1
M28	Brg Bed / S.box Stud & Nut		1
M29	Gland Split		1
M30	Casing / S.box Stud & Nut		1
M31	Wear Ring		1
M32	Gasket Sleeve / Impeller		1
M33	Key Impeller		1
M34	Impeller Nut		1
M35	Gasket (imp. Nut)	Teflon	1
M36	Pump Shaft		1
M37	Plug Casing Drain		1

GENERAL INFORMATION - ESAM SERIES

CROSS SECTIONAL DRAWING



Code No	Part Name	Material	Qty
1	Suction Cover	Ci	1
2	Volute Casing	Ci	1
3	Impeller	Ci / Gm	1
4	Stuffing Box Cover	Ci	1
5	Lantern Ring	Ss	1
6	St.box Colling Tupe	Steel	1
7	Bearing Bed	Ci	1
8	Thrust Bearing (drive)	Steel	1
9	Thrust Bearing Adopter	Ci	1
10	Bearing Adopter	Ci	1
11	Bearing Cap Outer	Ci	1
12	Key Coupling		1
13	Shaft	En8 / Ss	1
14	Oil Seal(drive)75x105x13	Rubber	1
15	Lock Nut	Bs 970 En8	1
16	Ball Bearing (drive)	Steel	1
17	Oil Rain Plug		1
18	Oil Level Sight Glass	Aluminium	1
19	Ball Bearing(pump)	Steel	1
20	Oil Seal(pump)75x105x13		1
21	Bearing Cap Inner	Is210 Fg 200	1
22	Deflector	Ss316	1
23	Gland	Is 270 Fg 200	1
24	Sleeve		1
25	Casing Drain		1
26	Key Sleeve		1
27	Key Impeller		1
28	Impeller Nut	Ss	1

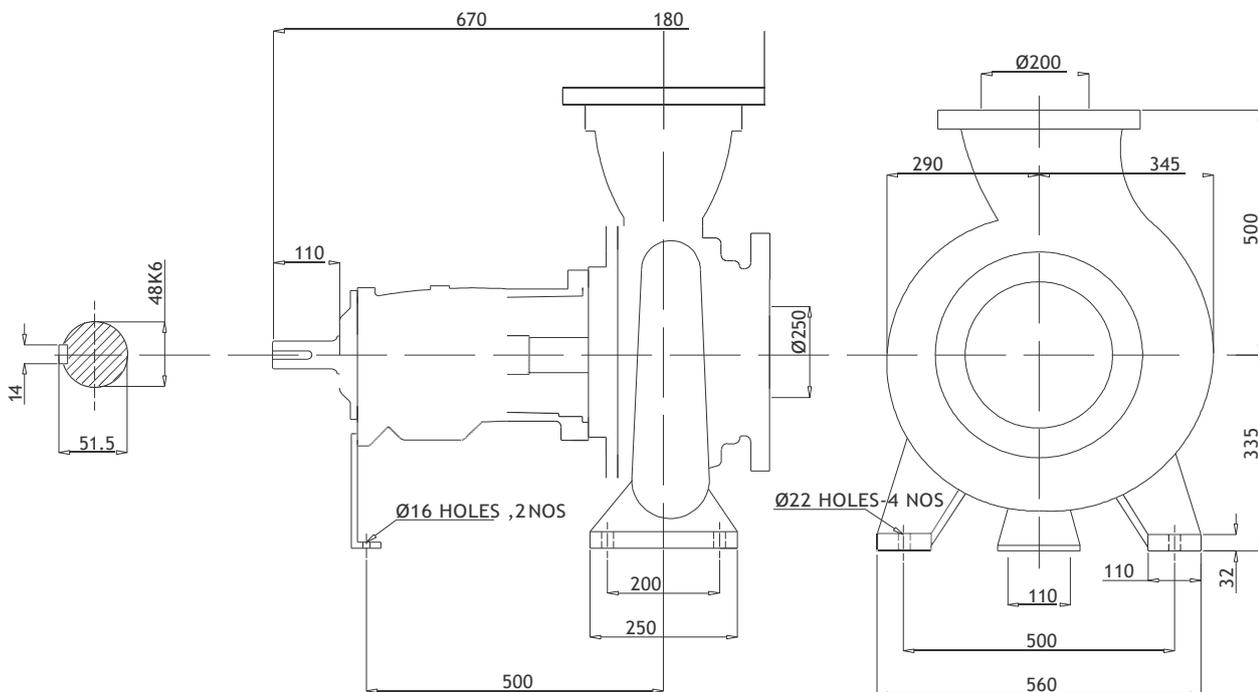
OVERALL DIMENSIONAL DRAWING

Model : ESAM-200/320

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 250 x 200

FLANGE STD:ANSI 150 LBS



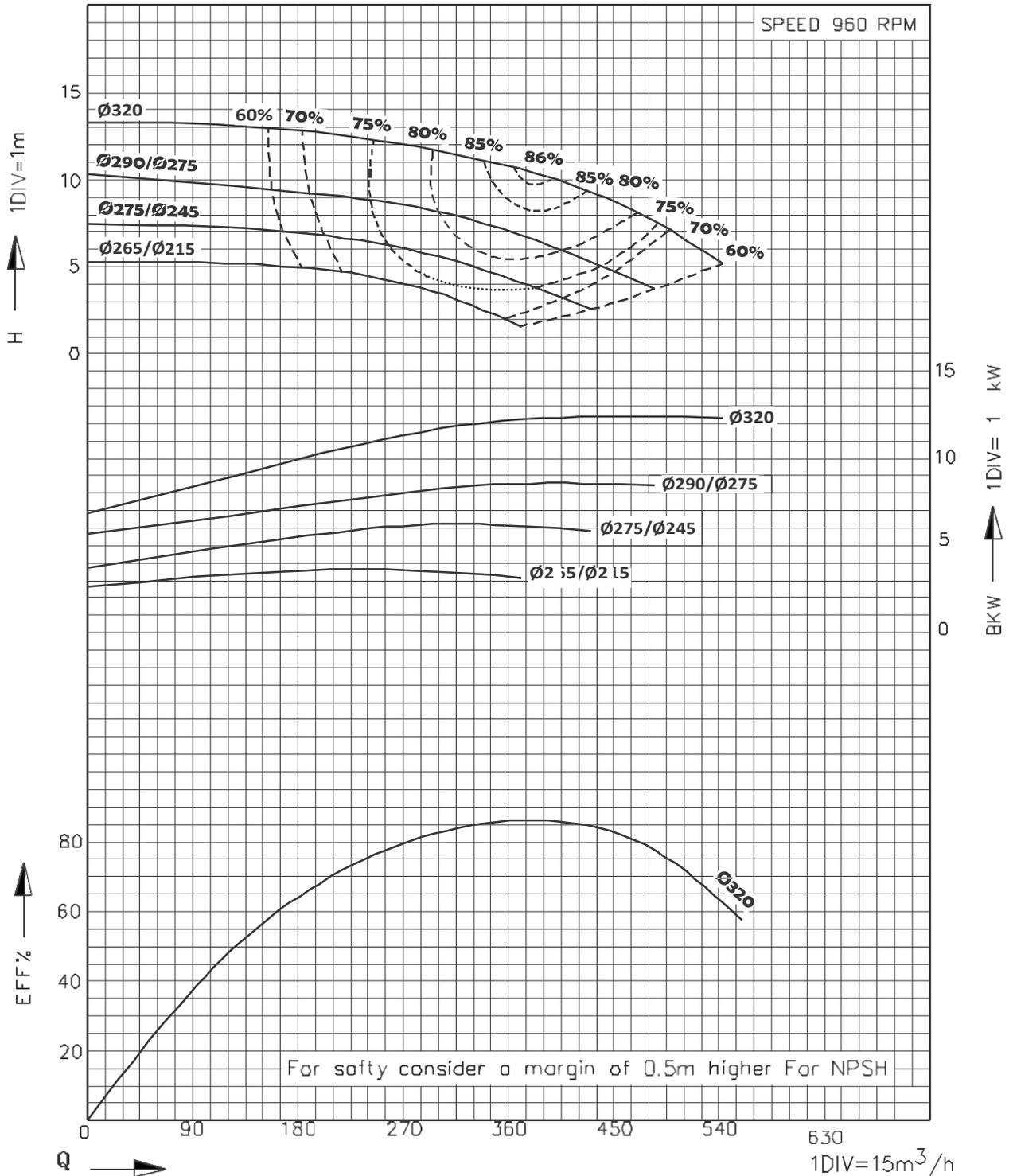
DIRECTION OF ROTATION : CLOCK WISE FROM DRIVE END

PERFORMANCE CURVE

Model : ESAM-200/320

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 250 x 200

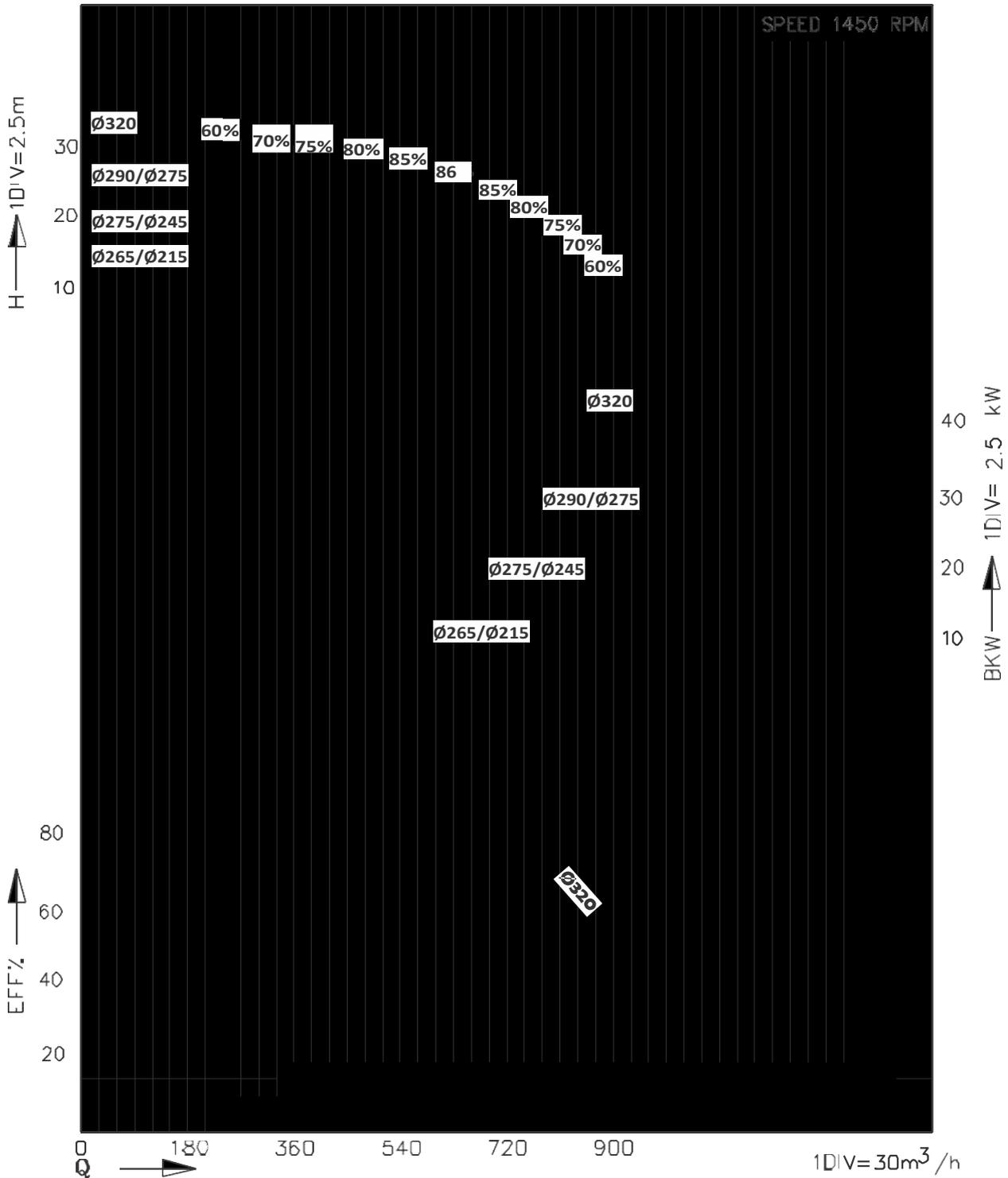


PERFORMANCE CURVE

Model : ESAM-200/320

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 250 x 200

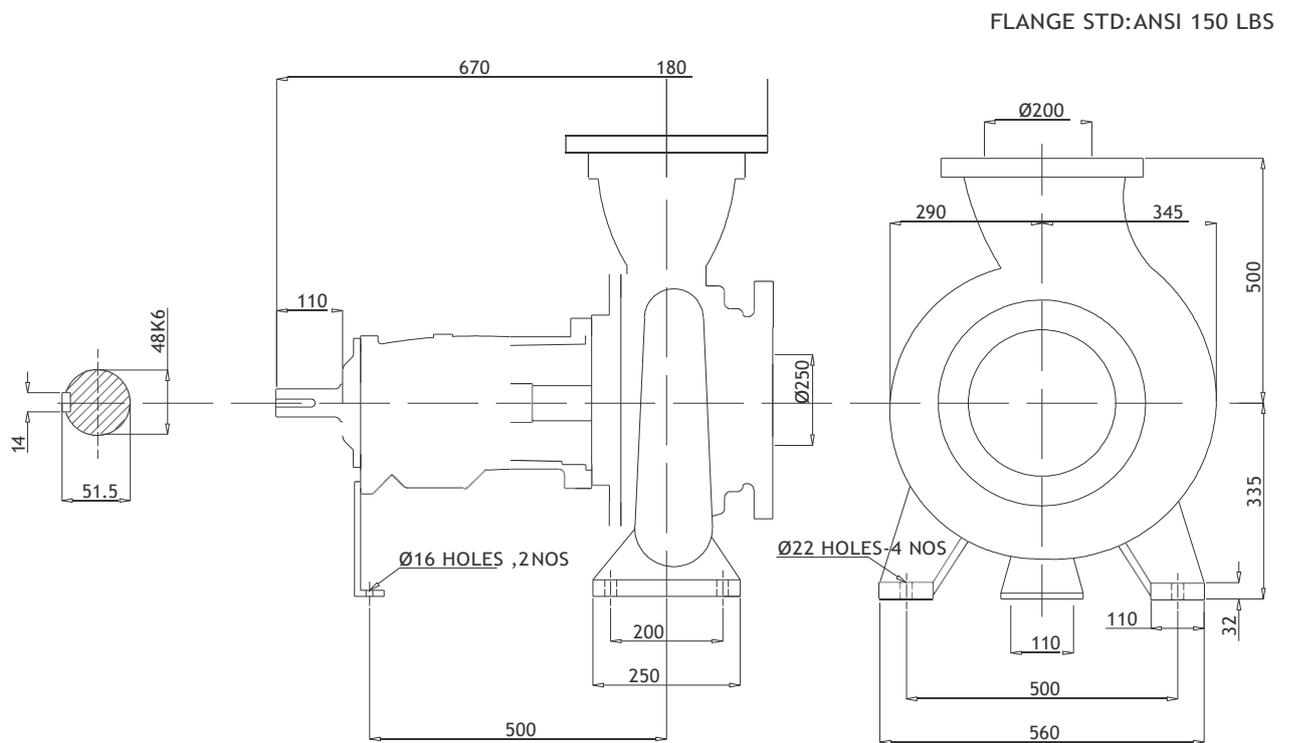


OVERALL DIMENSIONAL DRAWING

Model : ESAM-200/400

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 250 x 200



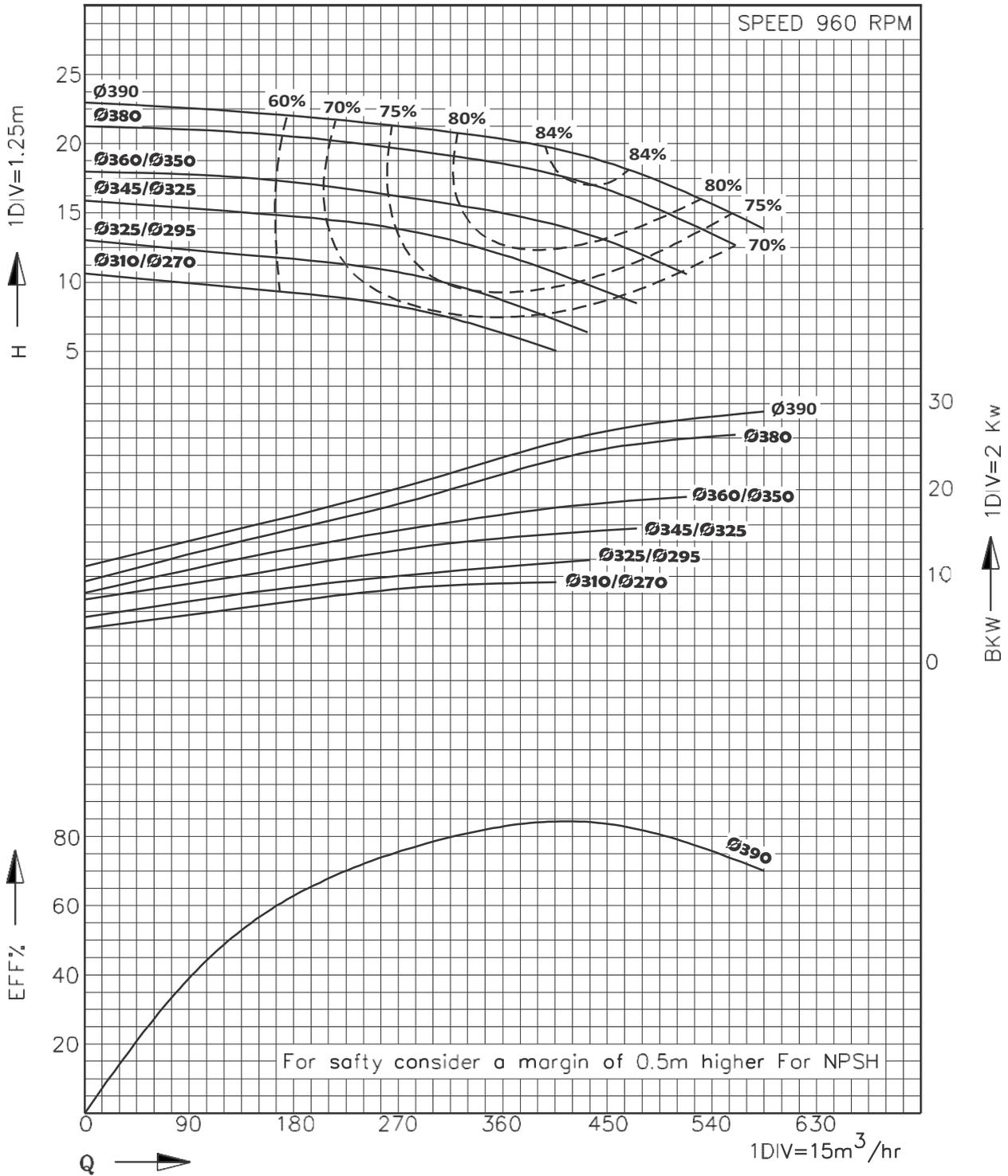
DIRECTION OF ROTATION : CLOCK WISE FROM DRIVE END

PERFORMANCE CURVE

Model : ESAM-200/400

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 250 x 200

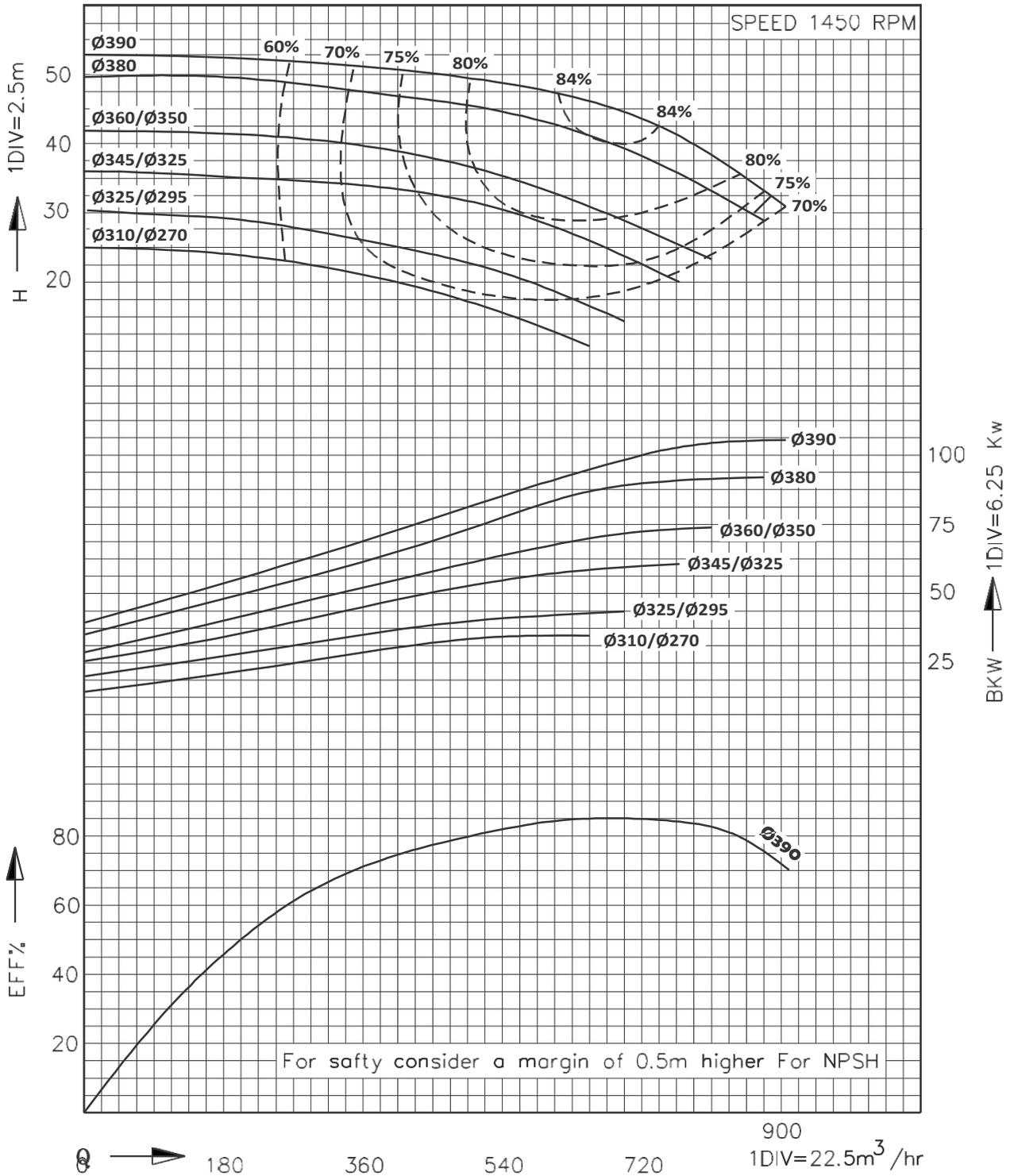


PERFORMANCE CURVE

Model : ESAM-200/400

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 250 x 200

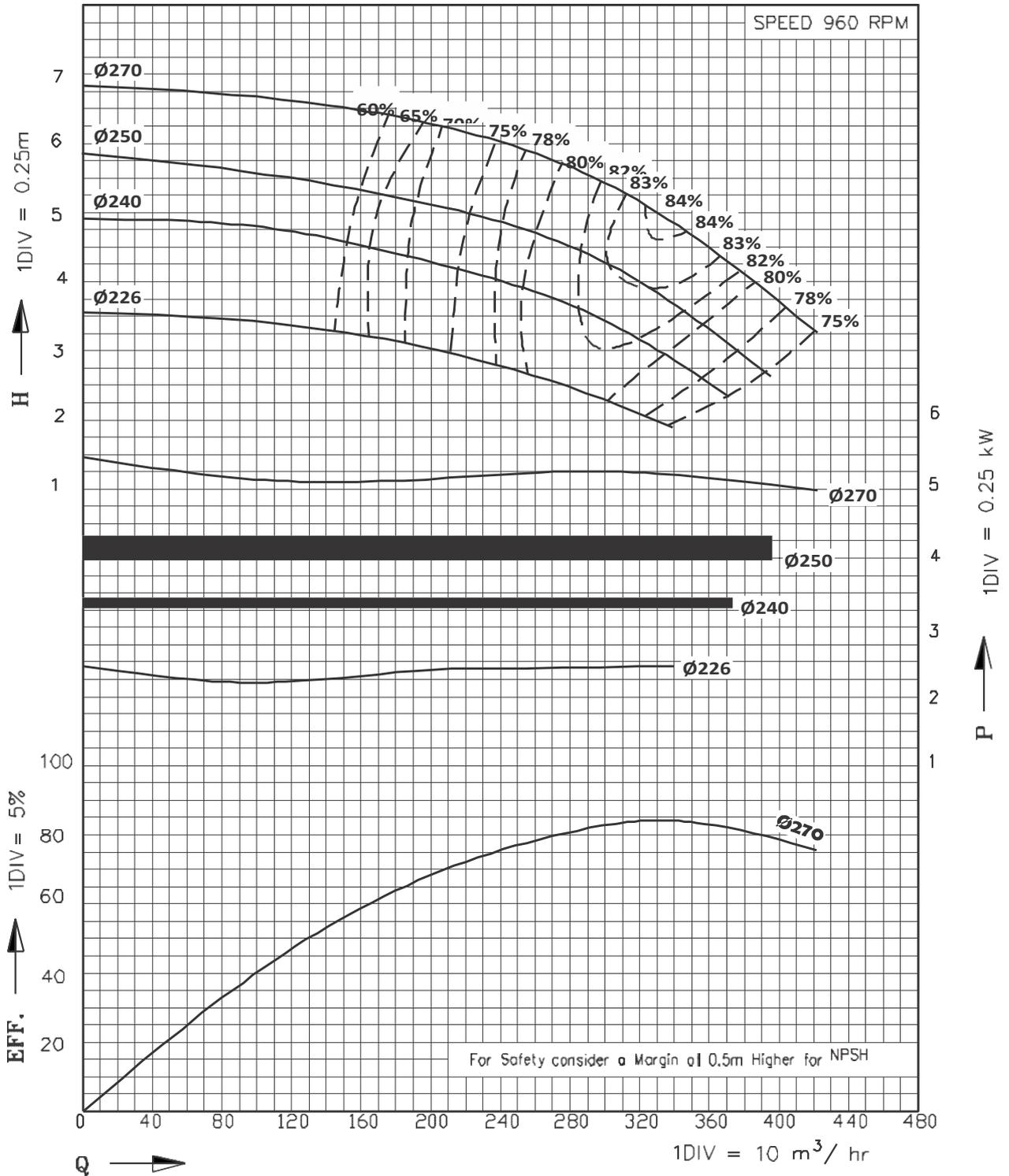


PERFORMANCE CURVE

Model : ESAM-250/270

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 200 x 250

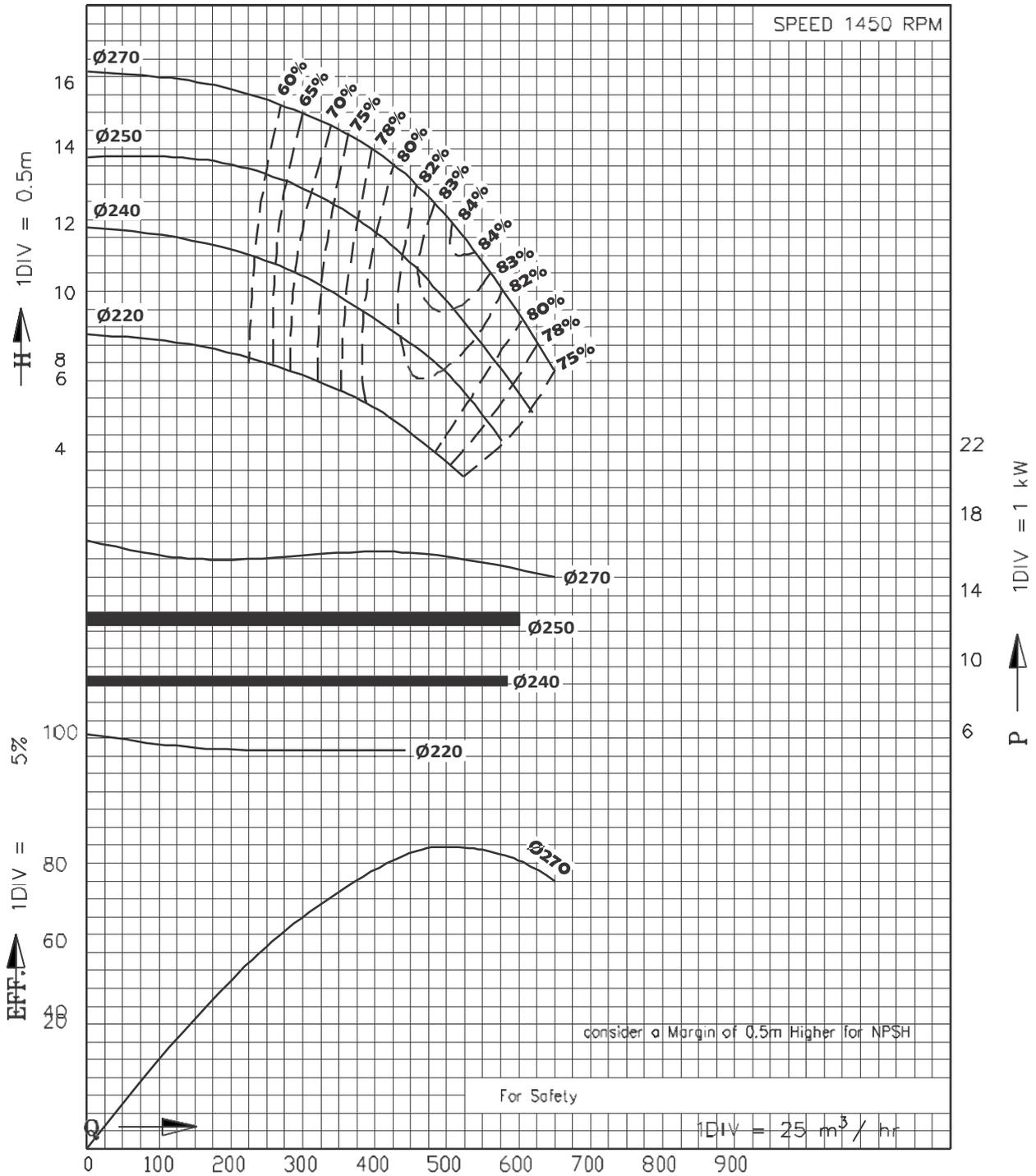


PERFORMANCE CURVE

Model : ESAM-250/270

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 200 x 250

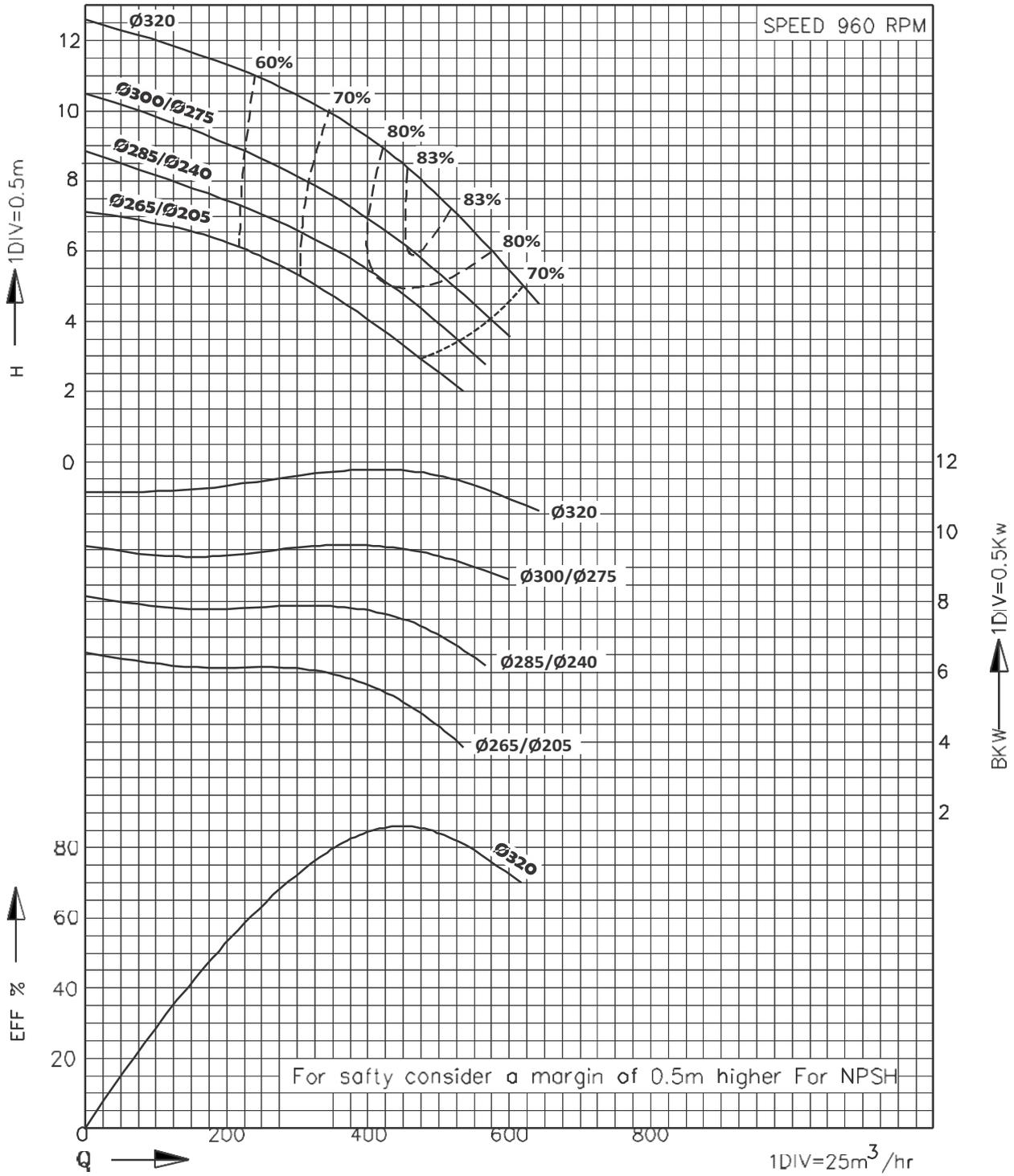


PERFORMANCE CURVE

Model : ESAM-250/320

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 250 x 250

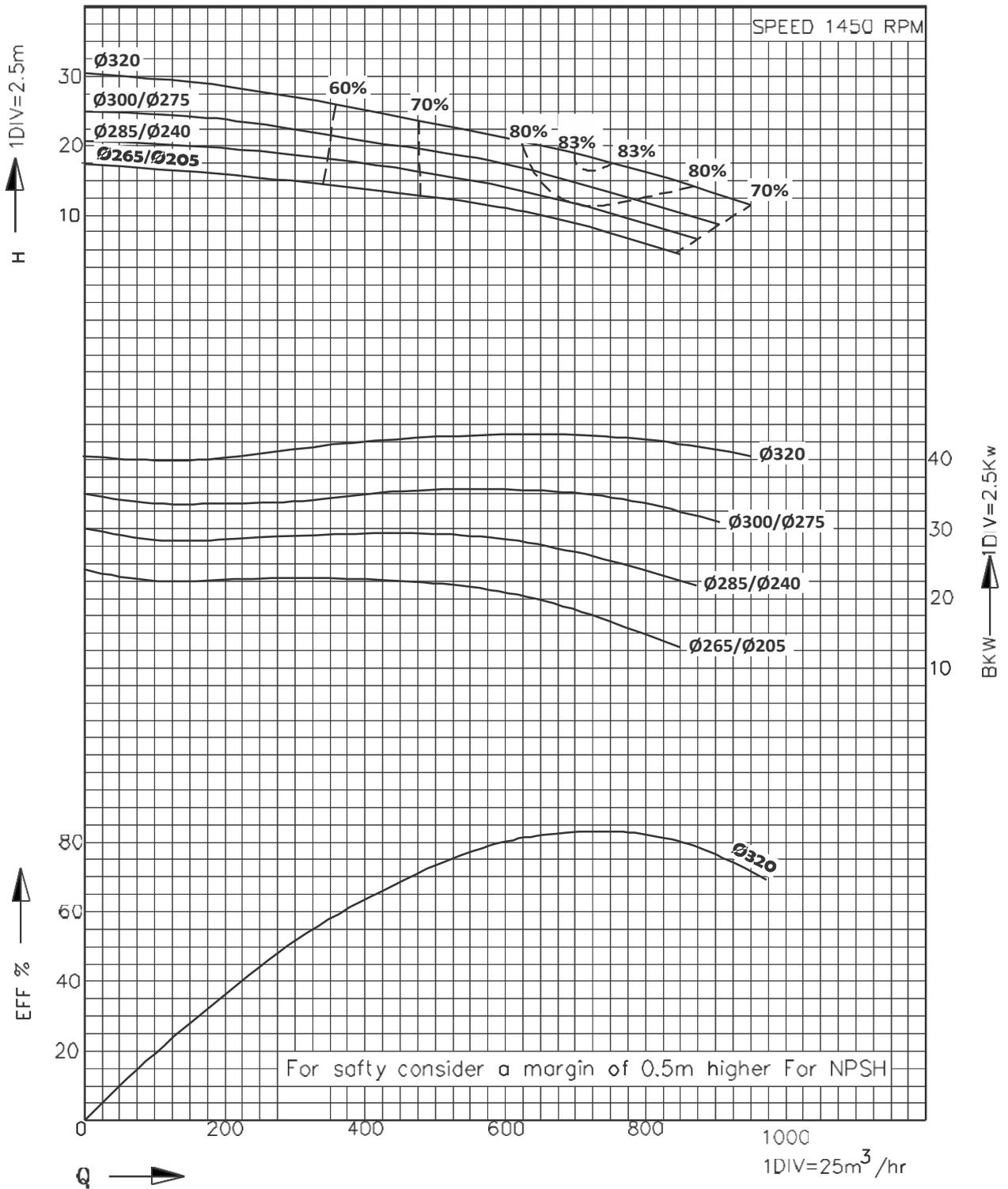


PERFORMANCE CURVE

Model : ESAM-250/320

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 250 x 250



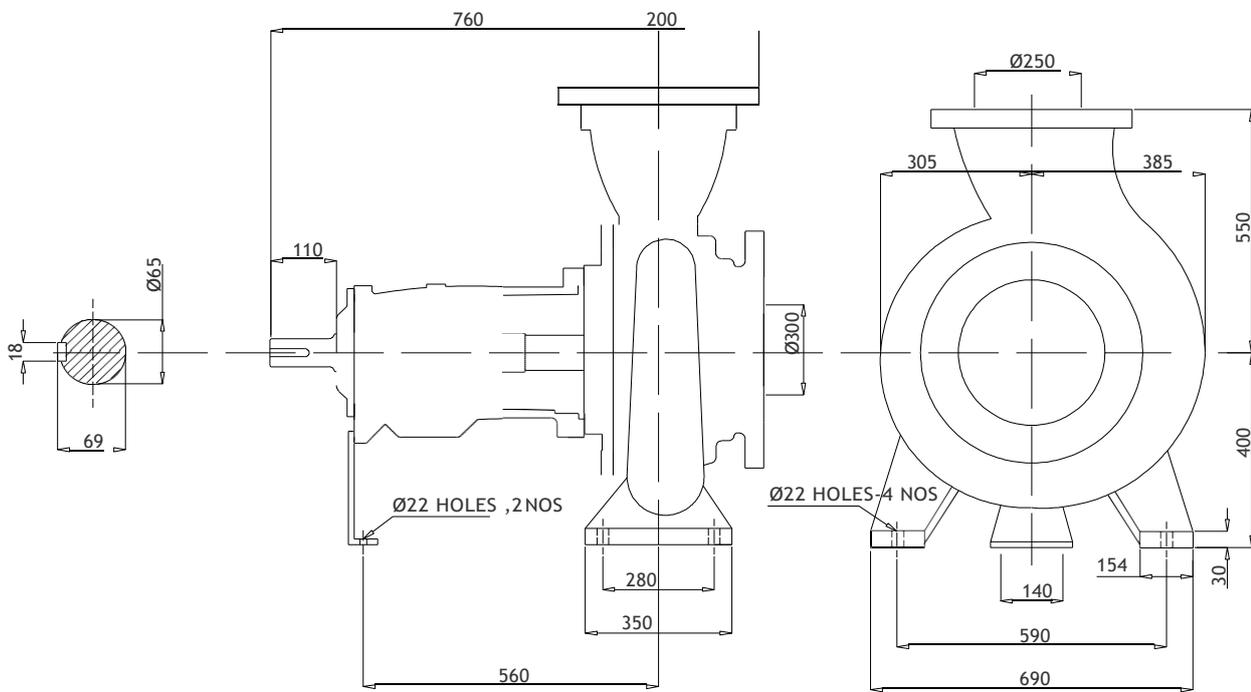
OVERALL DIMENSIONAL DRAWING

Model : ESAM-250/400

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 300 x 250

FLANGE STD:ANSI 150 LBS



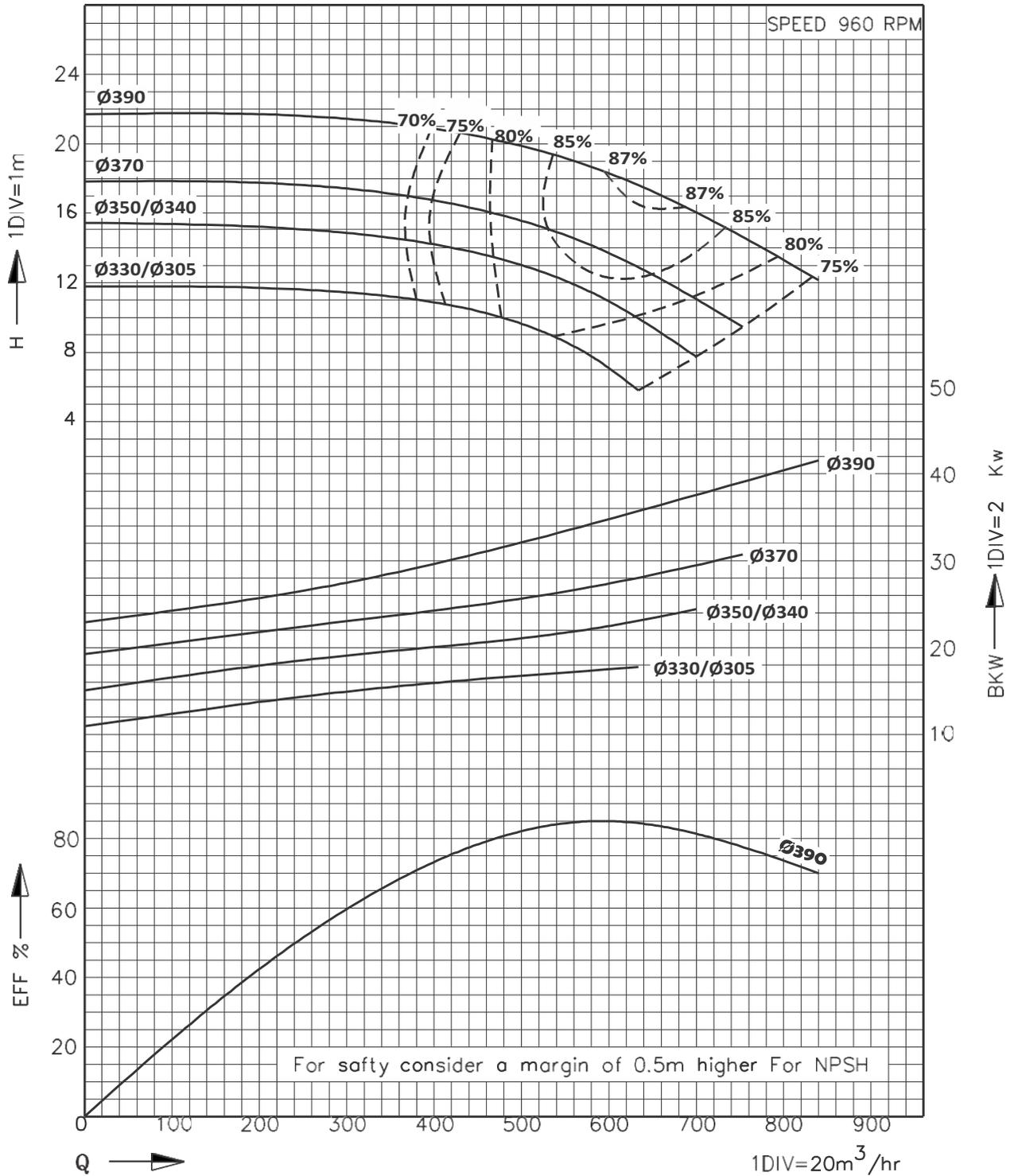
DIRECTION OF ROTATION : CLOCK WISE FROM DRIVE END

PERFORMANCE CURVE

Model : ESAM-250/400

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 300 x 250

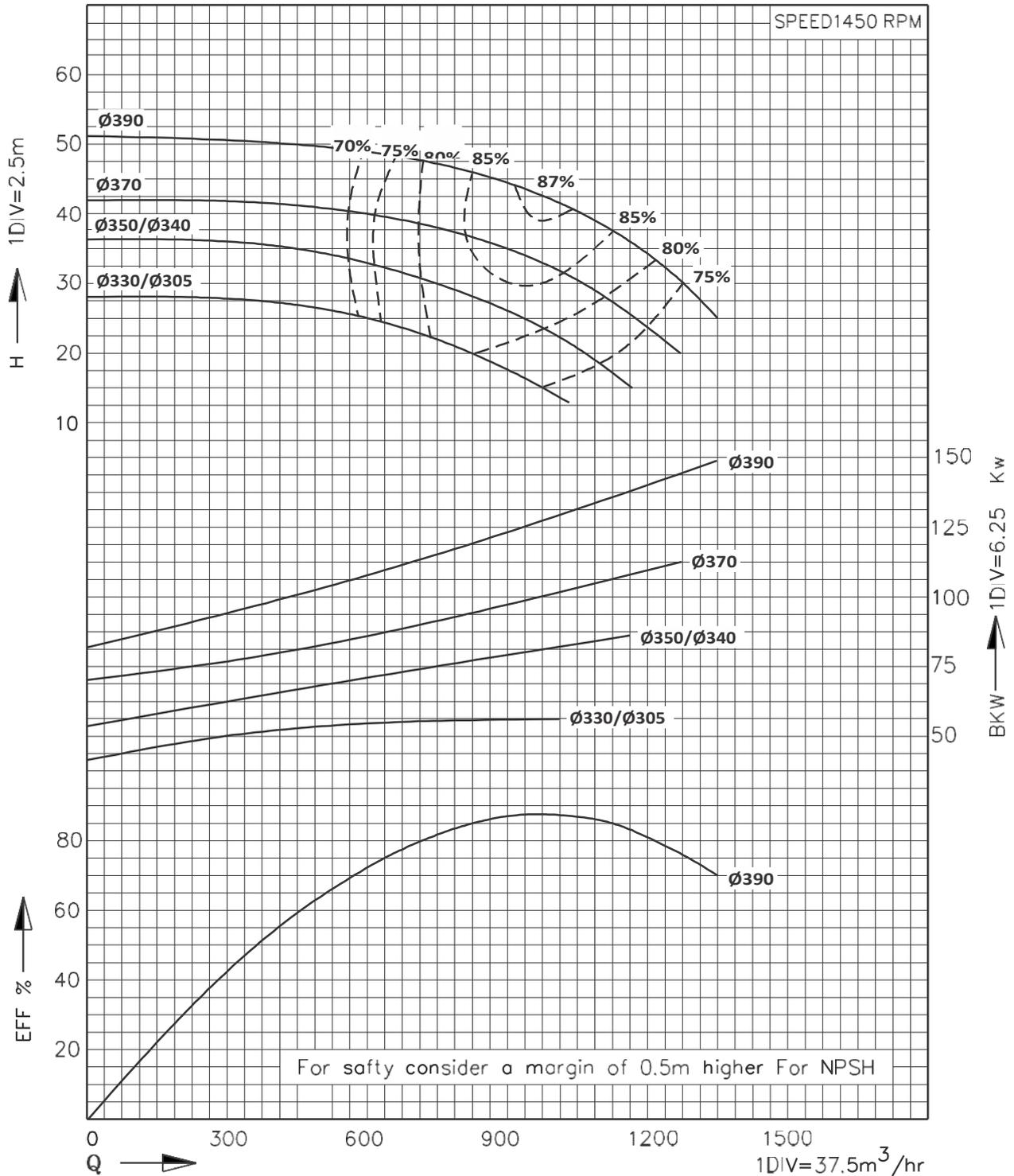


PERFORMANCE CURVE

Model : ESAM-250/400

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 300 x 250



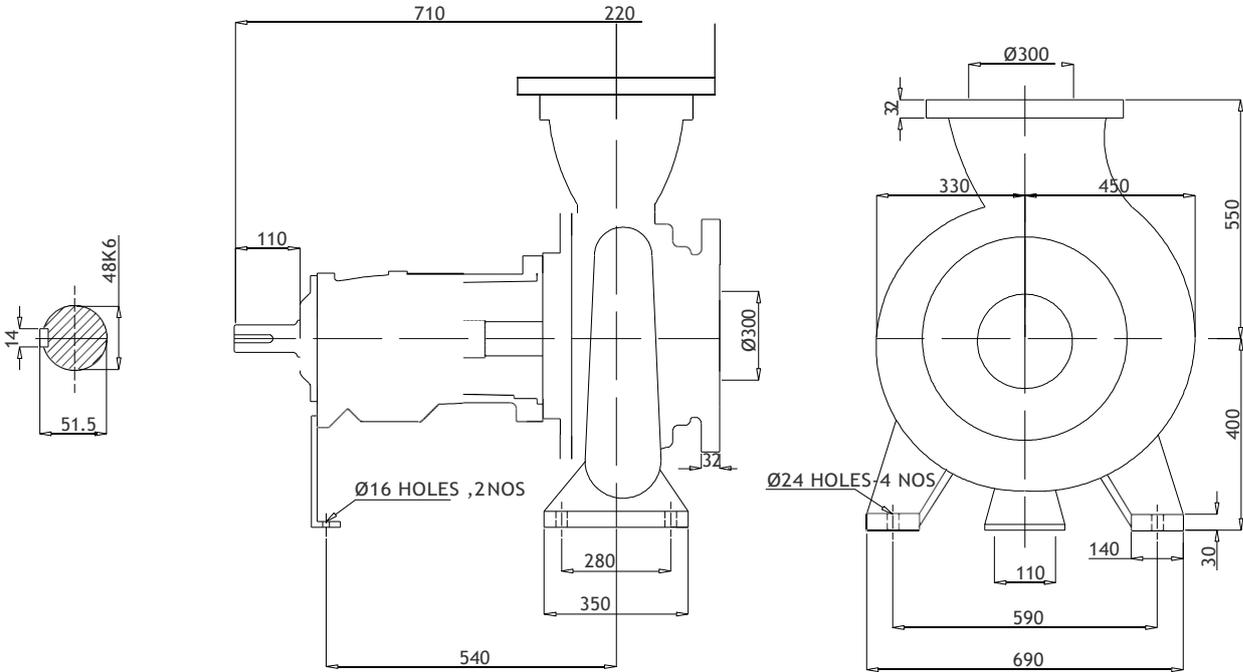
OVERALL DIMENSIONAL DRAWING

Model : ESAM-300/320

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 300 x 300

FLANGE STD:ANSI 150 LBS



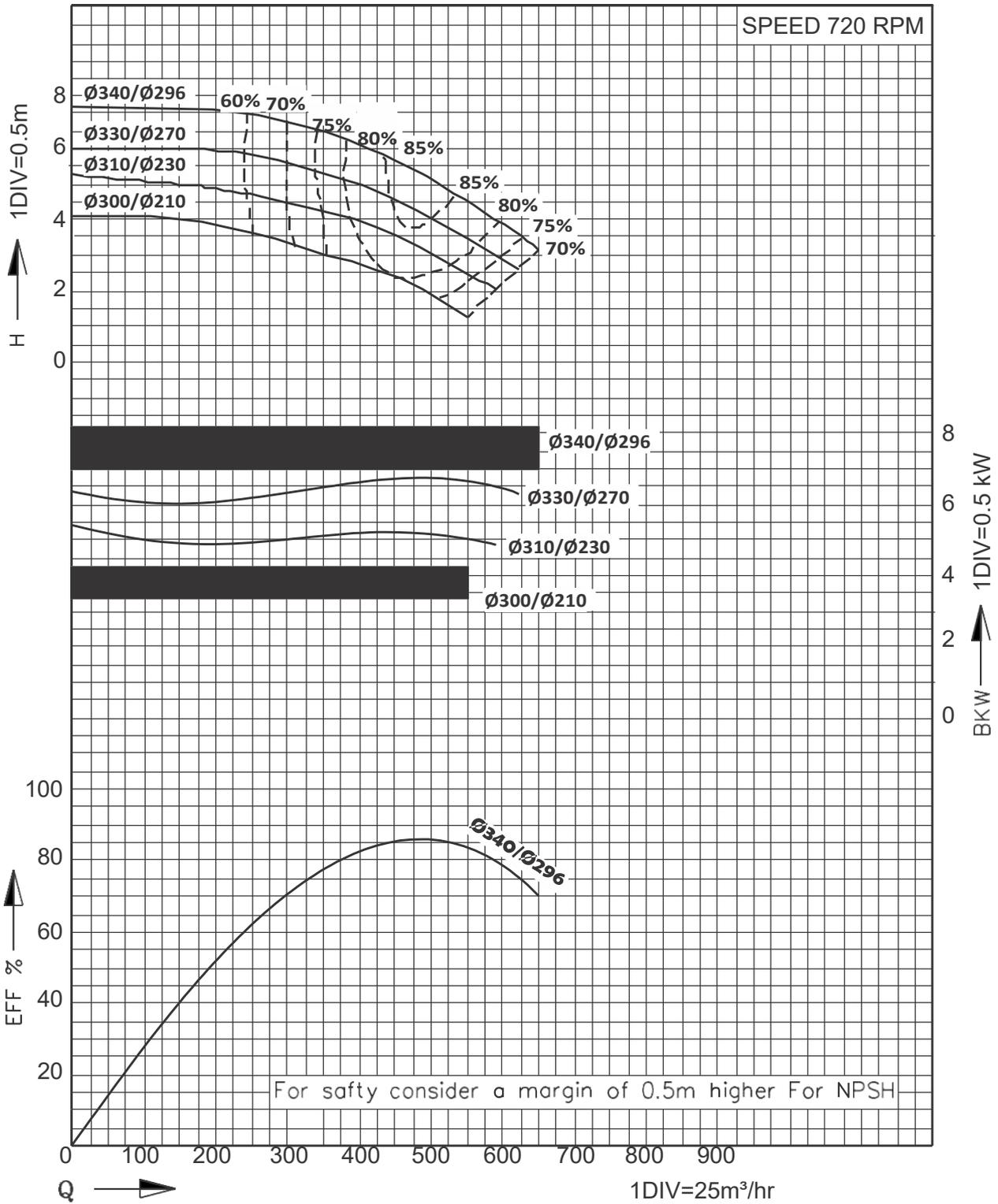
DIRECTION OF ROTATION : CLOCK WISE FROM DRIVE END

PERFORMANCE CURVE

Model : ESAM-300/320

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 300 x 300

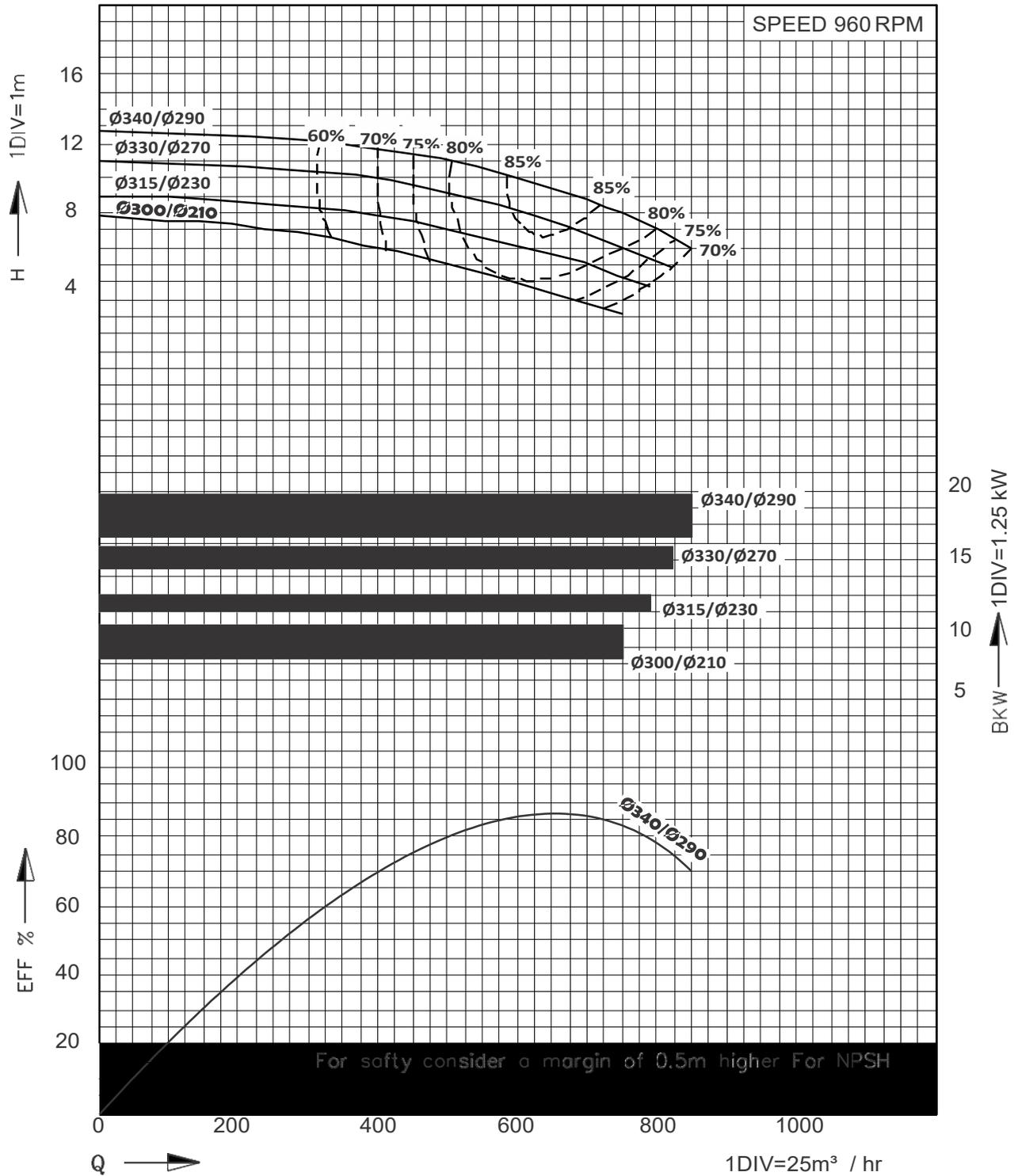


PERFORMANCE CURVE

Model : ESAM-300/320

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 300 x 300

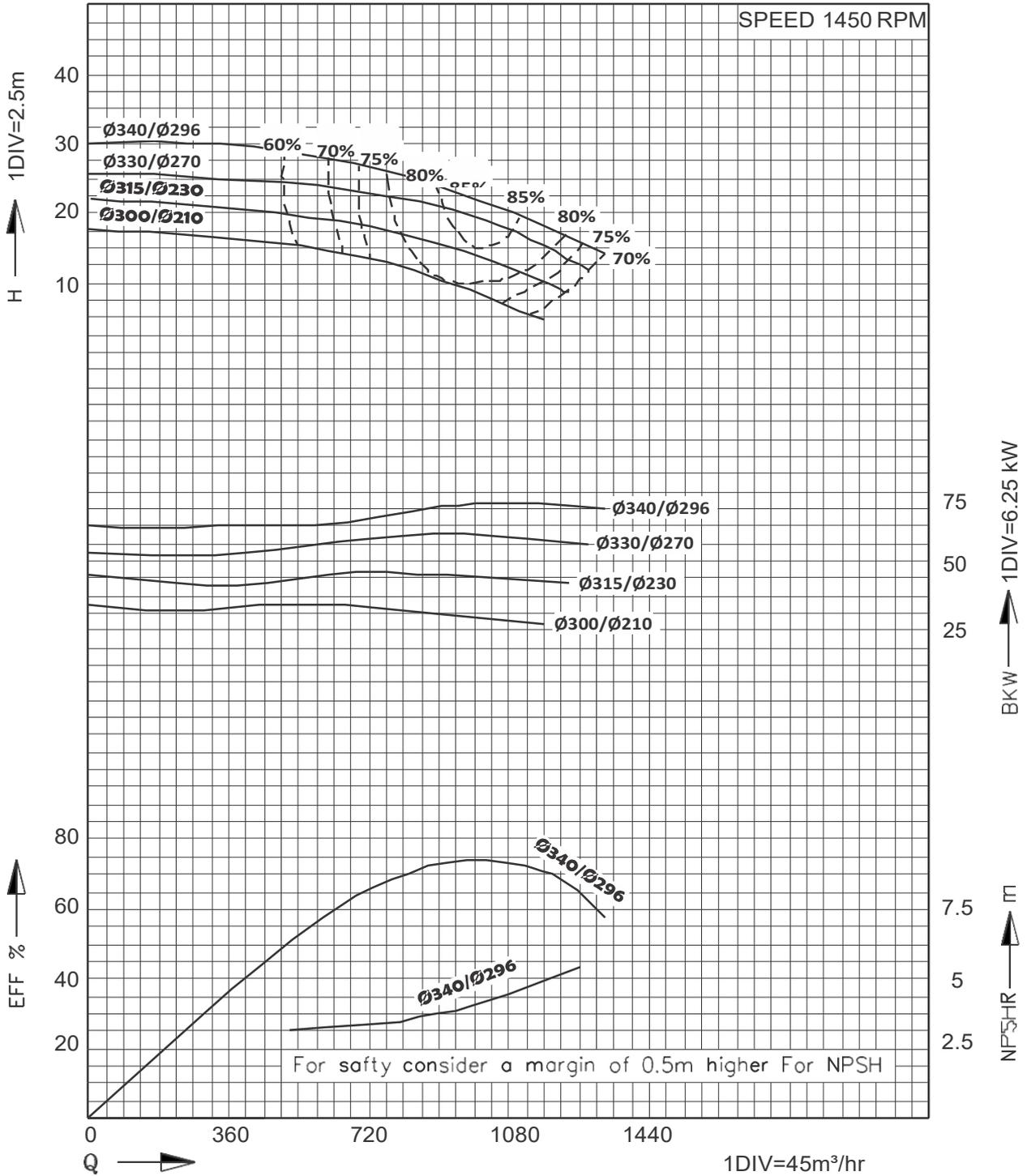


PERFORMANCE CURVE

Model : ESAM-300/320

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 300 x 300



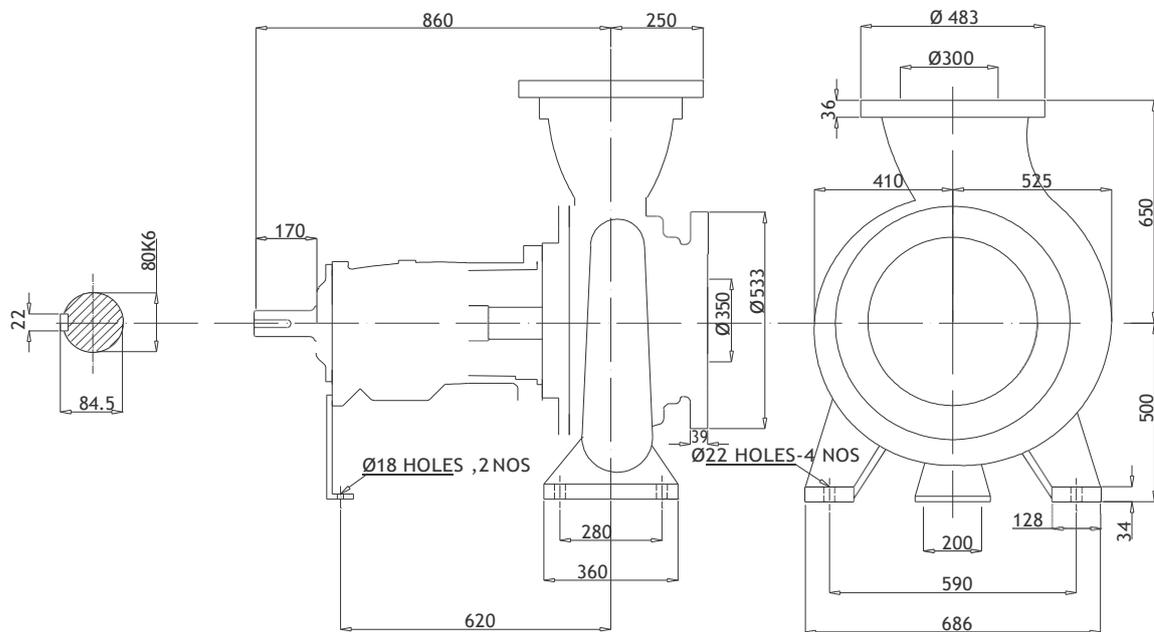
OVERALL DIMENSIONAL DRAWING

Model : ESAM-300/400

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 350 x 300

FLANGE STD:ANSI 150 LBS



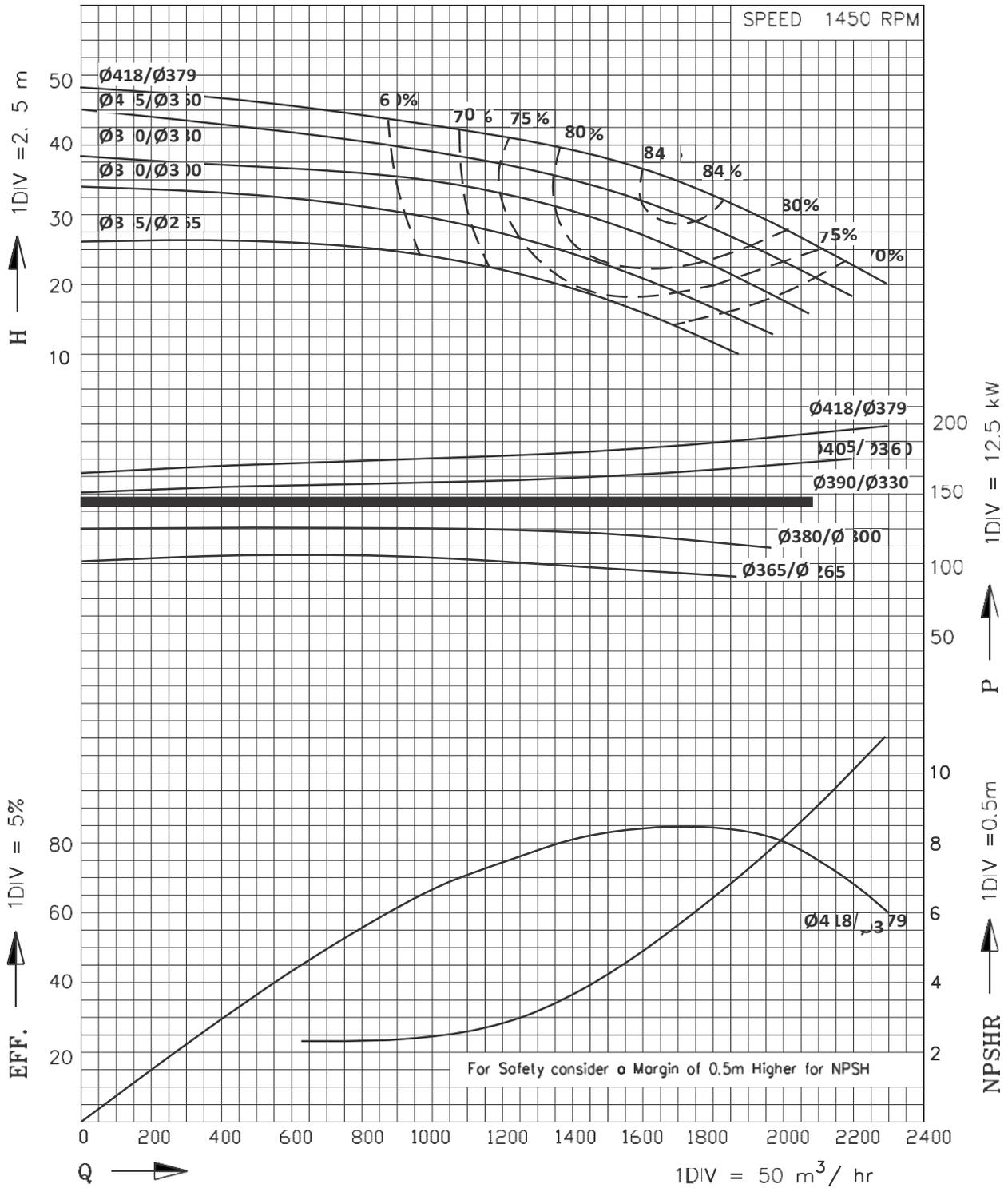
DIRECTION OF ROTATION : CLOCK WISE FROM DRIVE END

PERFORMANCE CURVE

Model : ESAM-300/400

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 350 x 300

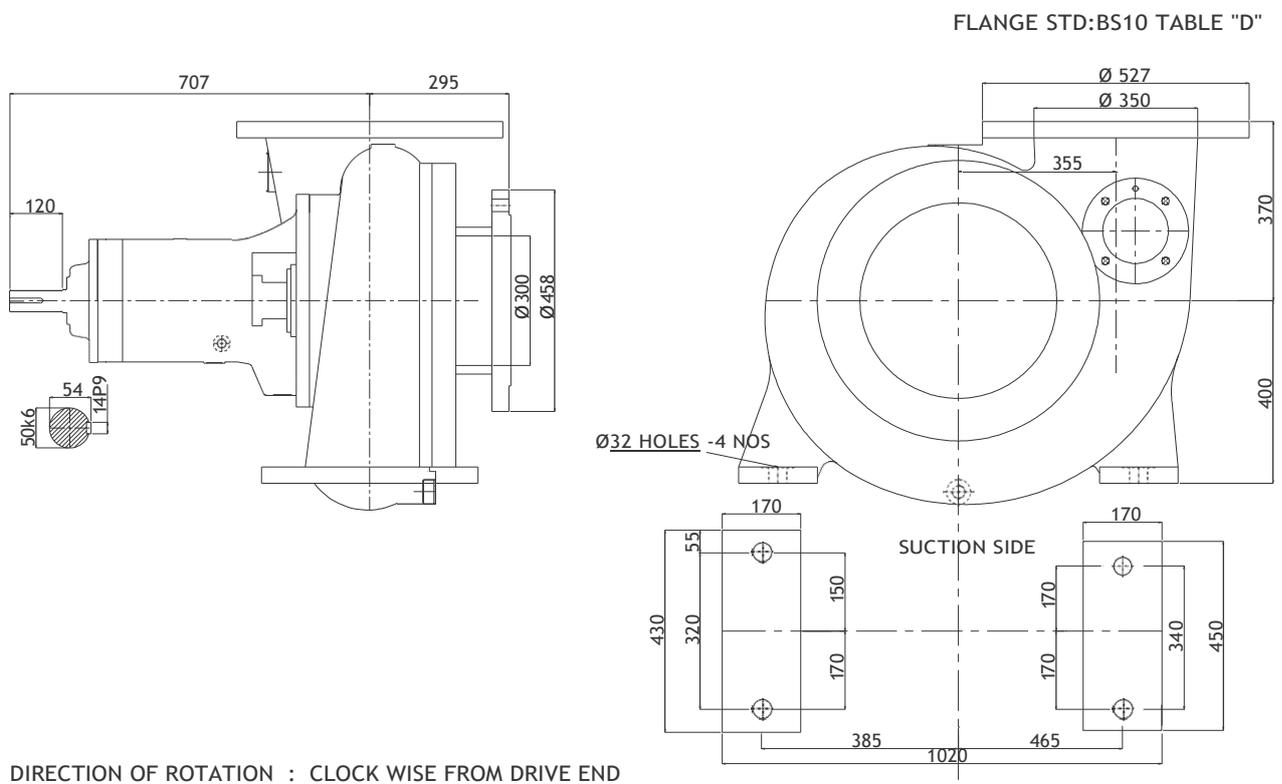


OVERALL DIMENSIONAL DRAWING

Model : ESAM-350/400

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 300 x 350

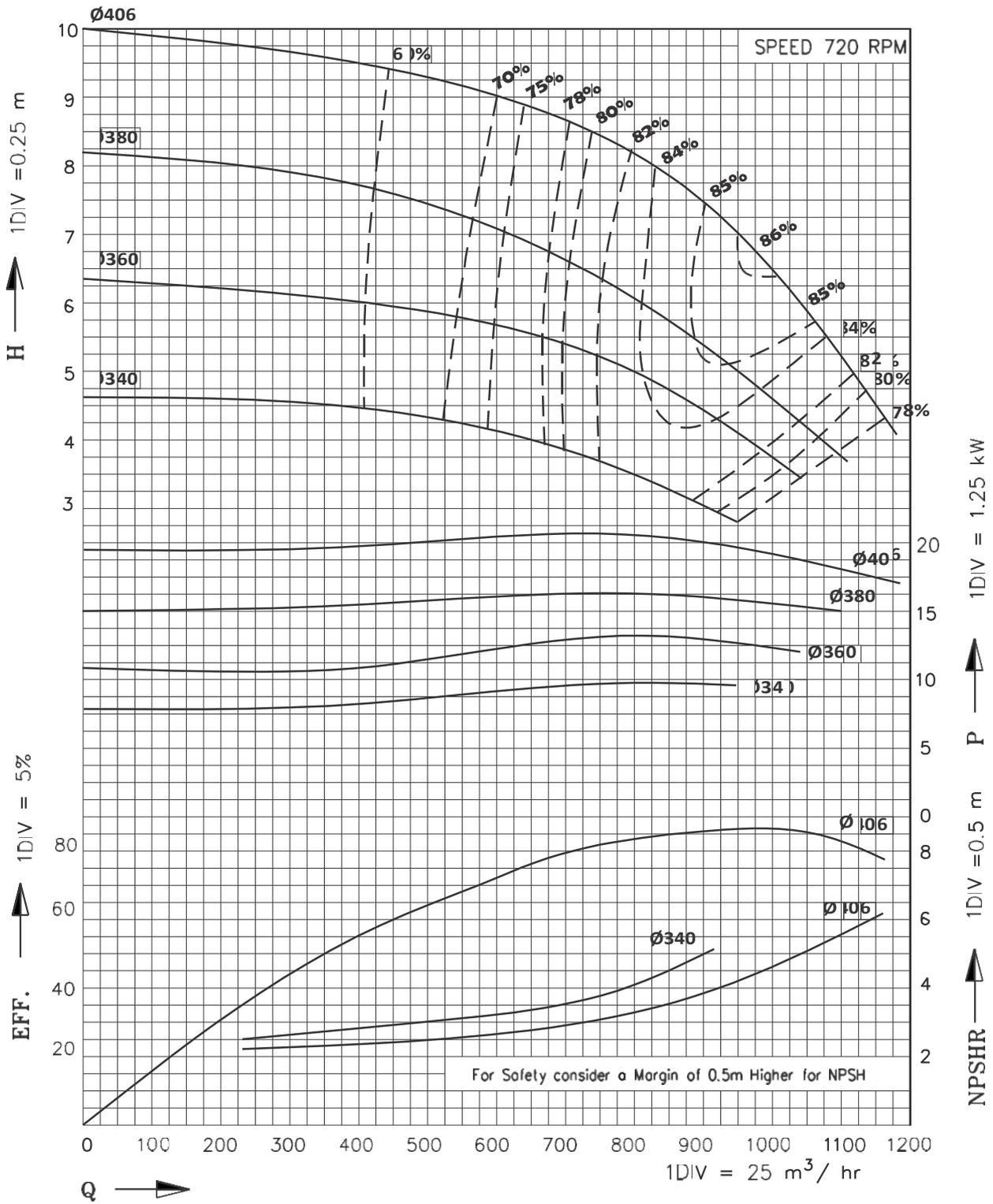


PERFORMANCE CURVE

Model : ESAM-350/400

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 300 x 350

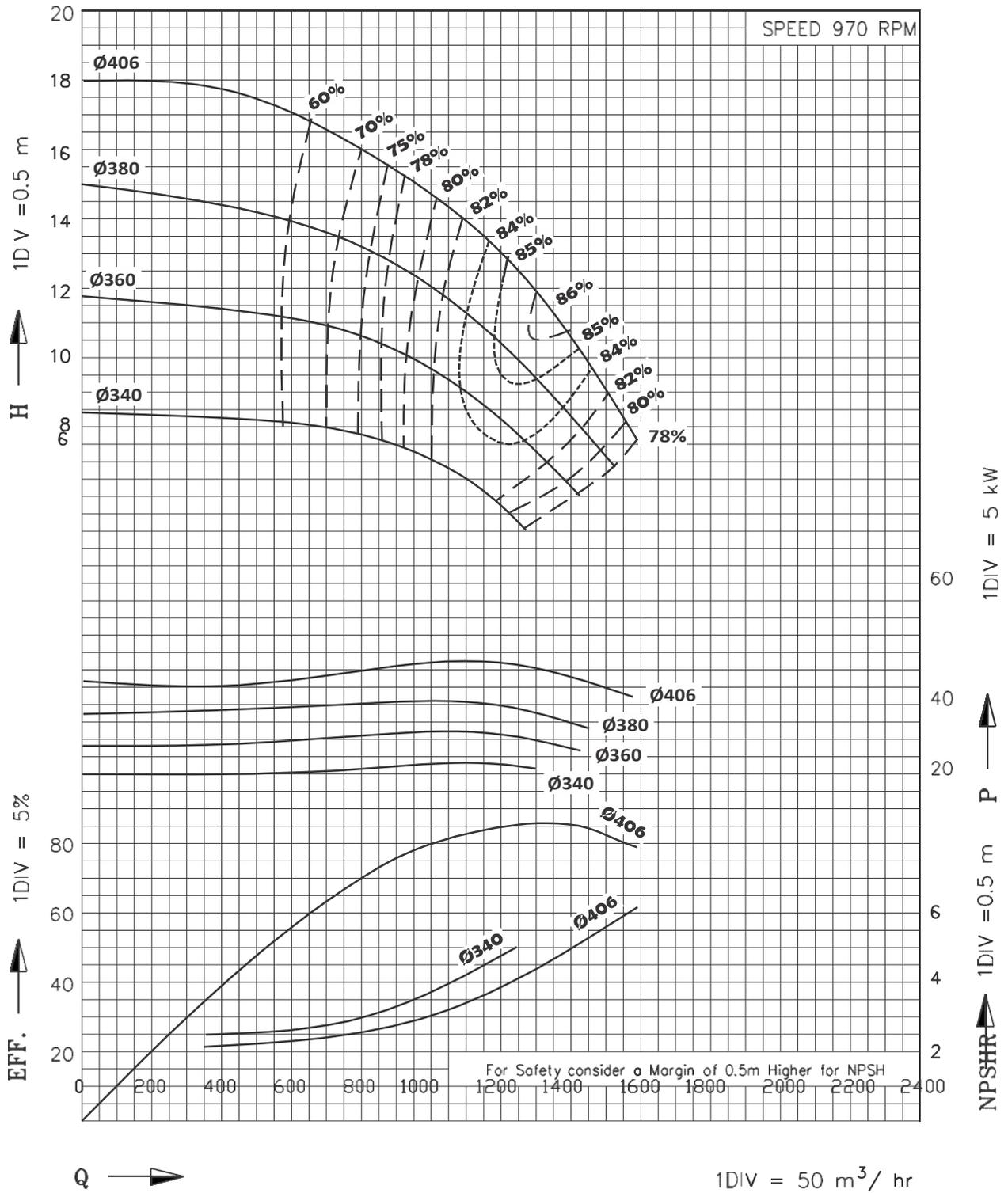


PERFORMANCE CURVE

Model : ESAM-350/400

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 300 x 350

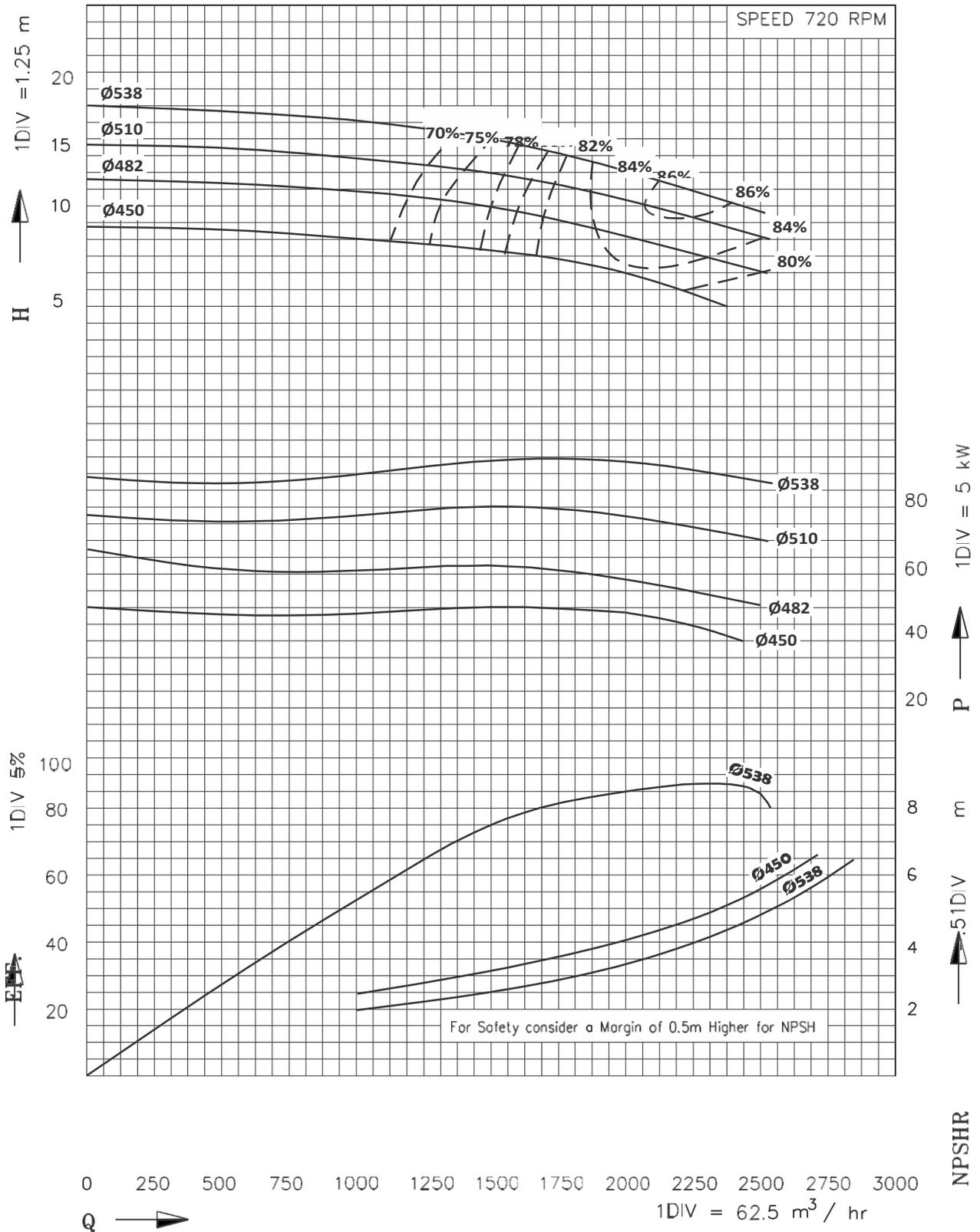


PERFORMANCE CURVE

Model : ESAM-450/550

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 400 x 450

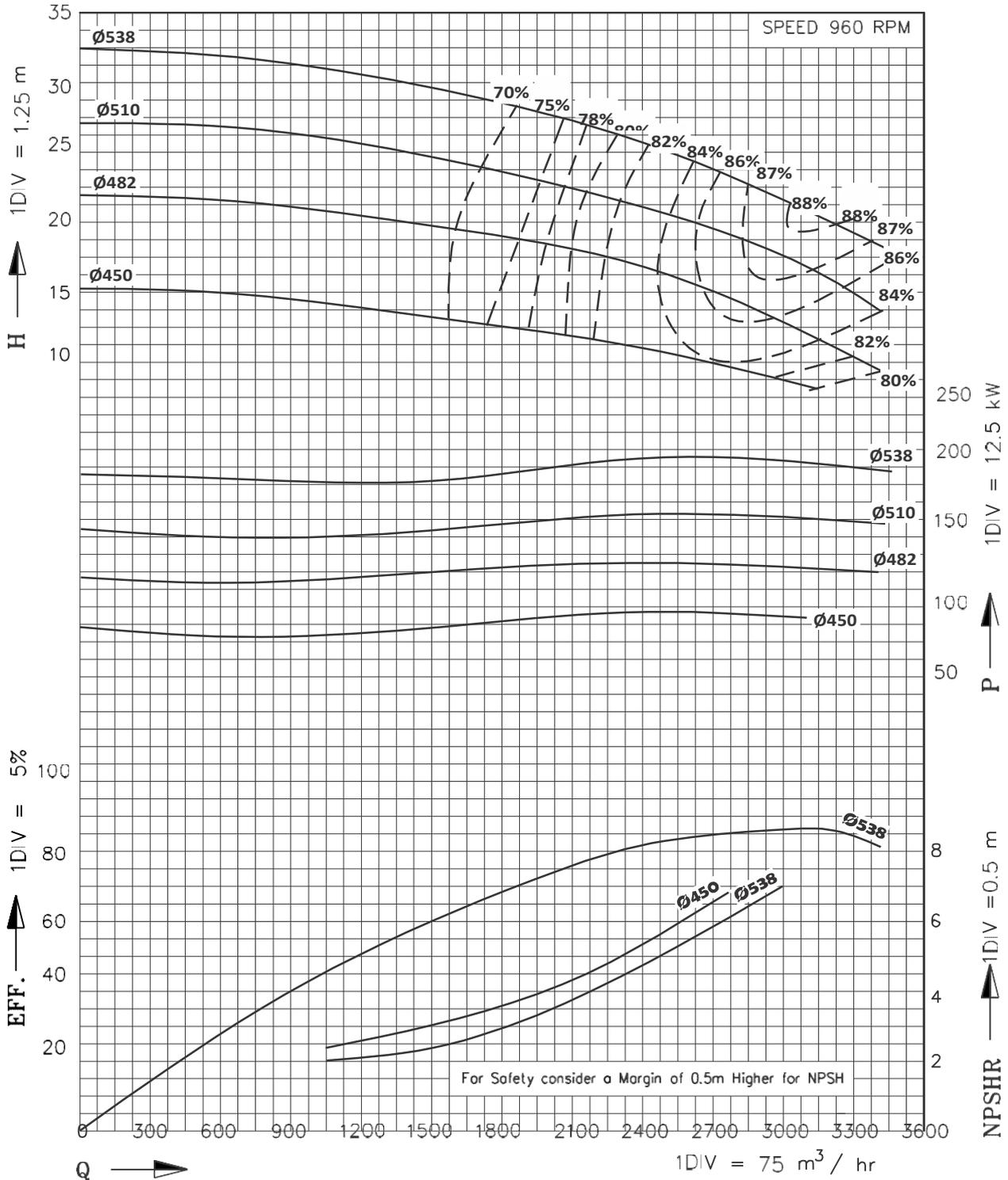


PERFORMANCE CURVE

Model : ESAM-450/550

Note : Performance curve are as per specific gravity and viscosity of water.

SIZE : 400 x 450





ADAPTABILITY

RIGHT OPTION

OPPORTUNITY

WORD OF TRUST