

GENERAL INFORMATION - ECW SERIES

End Suction Centrifugal Pumps



CONSTRUCTION

C.R.I. 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
- 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.

GENERAL INFORMATION - ECW SERIES

END SUCTION CENTRIFUGAL PUMPS

OPERATING LIMITS

Outlet size range : DN32 to DN150mm.

Flow range : Upto 550 m³/h

Total Head range : Upto 100m

Operating temperature with soft packed stuffing box : 90°C

Operating temperature with mechanical seal : 90°C

Maximum working pressure : 16bar

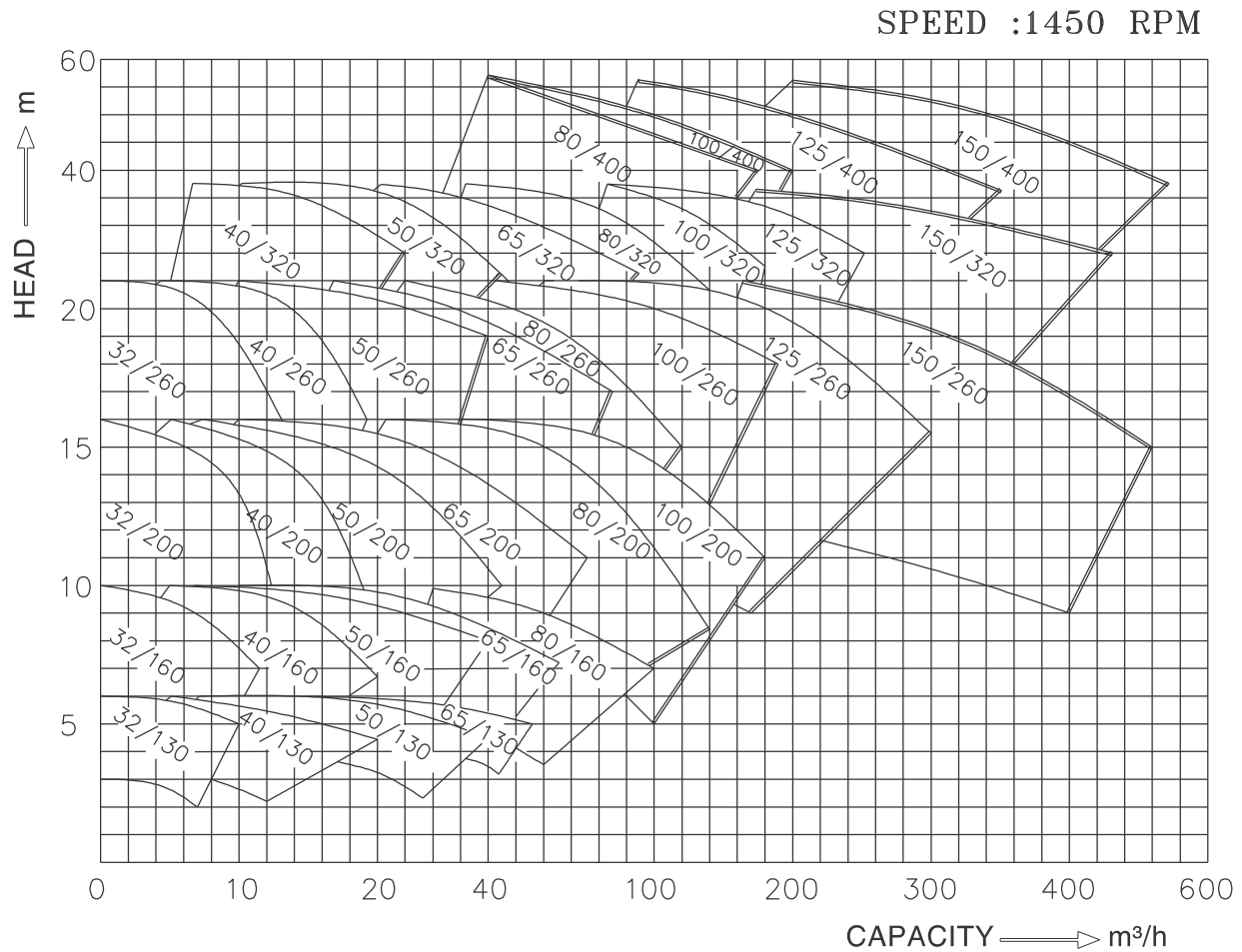
MATERIALS OF CONSTRUCTION

Pump Parts	Type - C	Type - B	Type - S
Pump casing	Cast iron	Cast iron	SS 304
Impellers	Cast iron	Zinc Free Bronze	SS 304
Shaft	EN - 8	EN - 8	SS 304 / 316
Sleeve	SS 410	SS 410	SS 410

* On request we can supply SS 410, SS 316 Pump Shaft & Zinc Free Bronze Wearing Ring also.

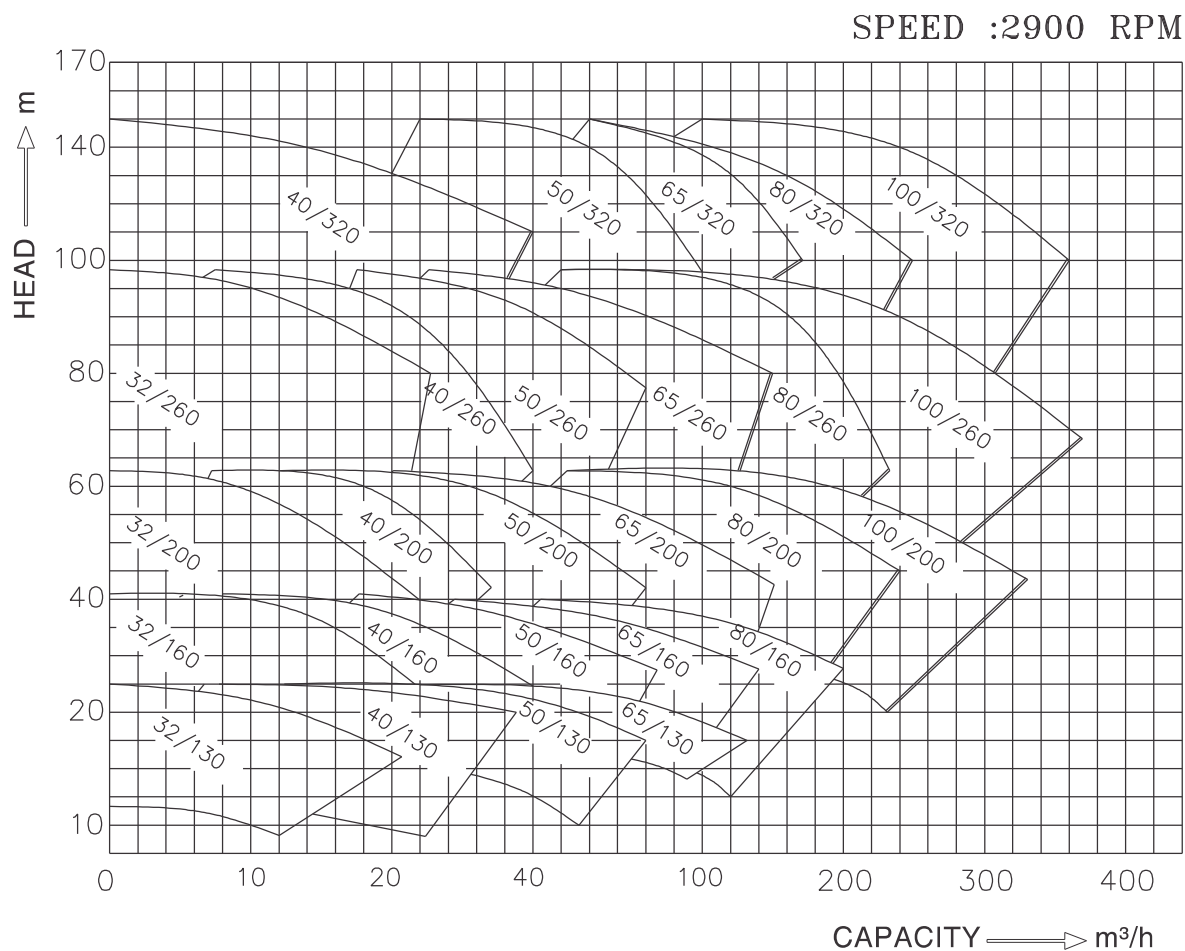
GENERAL INFORMATION - ECW SERIES

GROUP PERFORMANCE CURVES



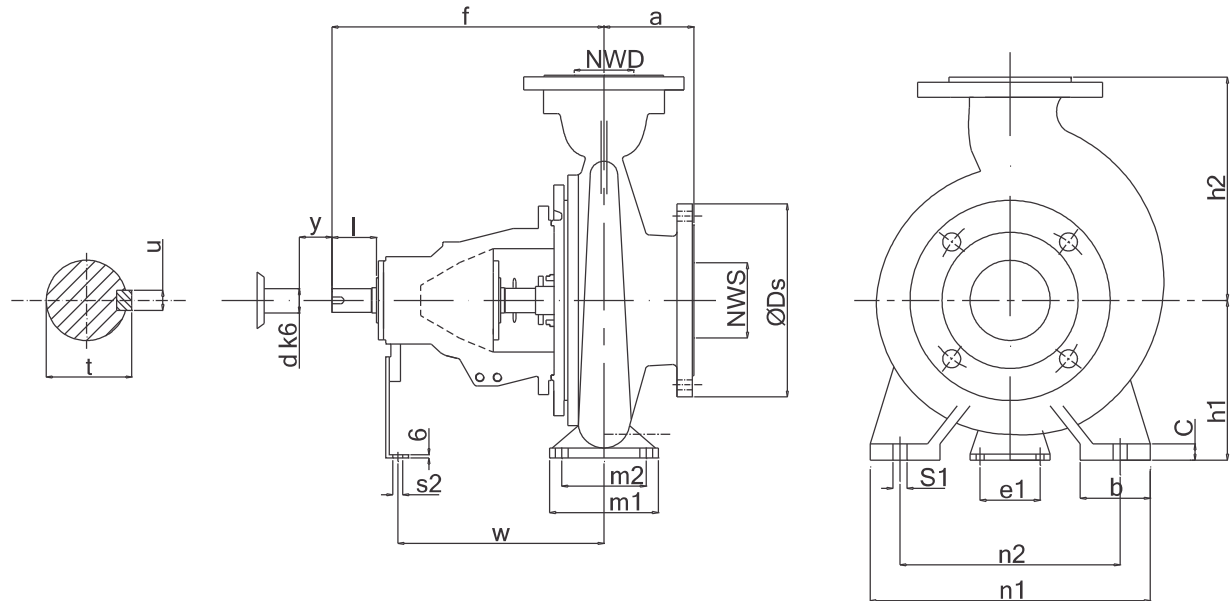
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GROUP PERFORMANCE CURVES

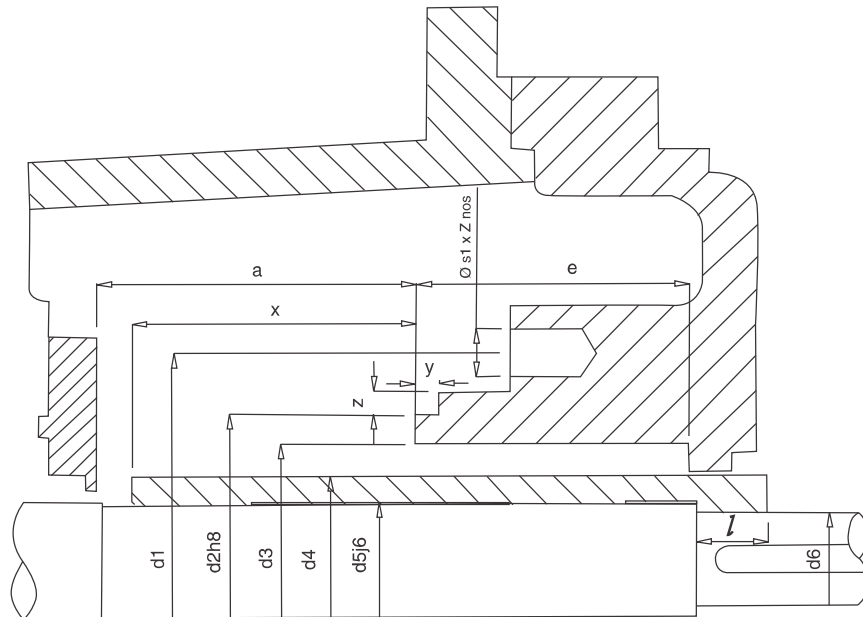


GENERAL INFORMATION - ECW SERIES

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 - ECW SERIES

OVERALL DIMENSIONS

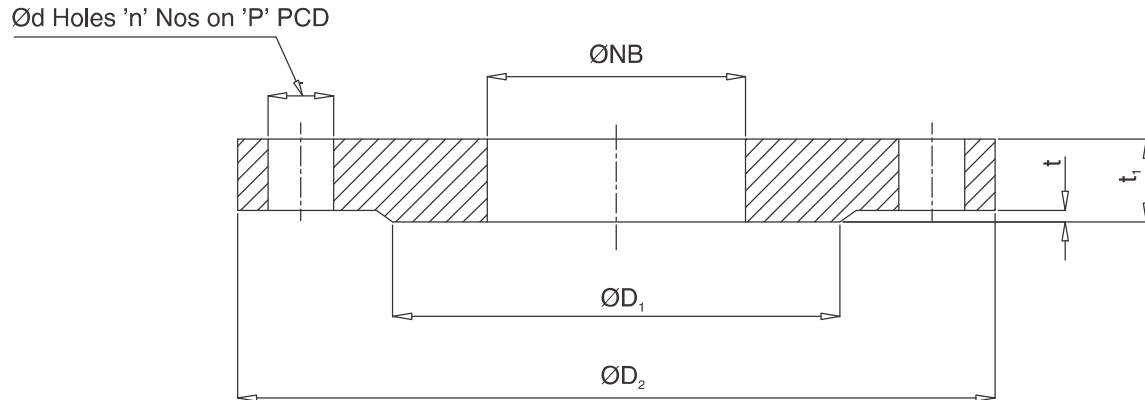
PUMP SIZE	SHAFT SIZE	PUMP DIMENSION															SHAFT END					DISTANCE	Pump Weight (kg)
		NWD	NWS	a	f	h1	h2	b	c	m1	m2	n1	n2	s1	e1	s2	w	d	l	t	u	y	
32/130	15W	32	50	80	360	112	140	50	14	100	70	190	140	14	100	14	267	24	50	27	8	140	45
32/160	15W	32	50	80	360	132	160	50	14	100	70	240	190	14	100	14	267	24	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	<i>l</i>	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

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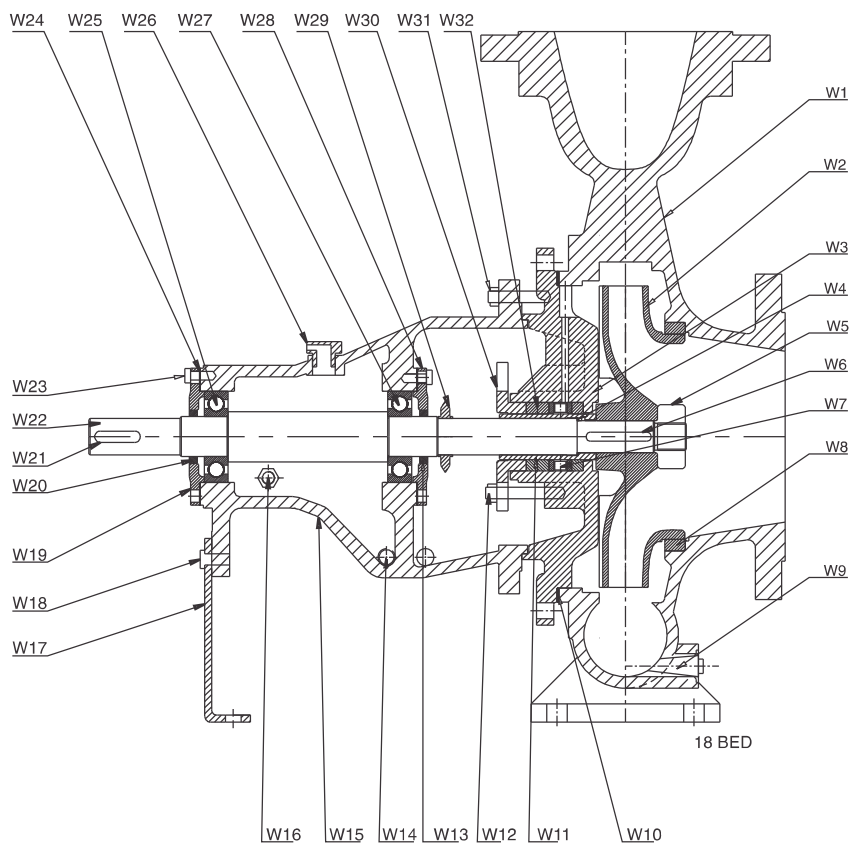
FLANGE DIMENSIONS



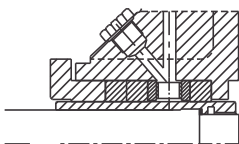
S.No.	NB in mm	$\varnothing D_1$	$\varnothing D_2$	t	t_1	$\varnothing d$	n	p
01	25	68	115	2	16	14	4	85
02	32	78	140	2	18	18	4	100
03	40	88	150	3	18	18	4	110
04	50	102	165	3	20	18	4	125
05	65	122	185	3	20	18	4	145
06	80	138	200	3	22	18	8	160
07	100	158	220	3	24	18	8	180
08	125	188	250	3	26	18	8	210
09	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

GENERAL INFORMATION - ECW SERIES

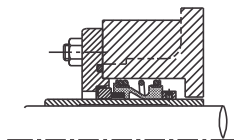
CROSS SECTIONAL DRAWING



ALTERNATIVE TYPES OF SHAFT SEALS



External flushing uncooled stuffing box
Stuffing box for external sealing
drilled inlet and outlet



With Mechanical seal

CODE NO	PART NAME	MATERIAL	QTY
W1	PUMP CASING		1
W2	IMPELLER		1
W3	STUFFING BOX		1
W4	GASKET (IMP/SLEEVE)		1
W5	IMPELLER NUT		1
W6	KEY IMPELLER	BS 970 EN8	1
W7	LANTERN RING		1
W8	WEAR RING		1
W9	CASING PLUG (DRAIN)		1
W10	GASKE (ST.BOX/ CASING)		1
W11	SLEEVE		1
W12	STUD (GLAND / S.BOX)		1
W13	OIL SEAL (INNER)		1
W14	PLUG OIL DRAIN	BS 970 EN8	1
W15	BEARING HOUSING	IS 210 FG200	1
W16	OIL LEVEL SIDE GLASS	ALUMINIUM	1
W17	SUPPORT FOOT	IS 226 C15	1
W18	BOLT (SUPPORT / BED)		1
W19	BEARING COVER OUTER	IS 210 FG200	1
W20	OIL SEAL (OUTER)		1
W21	KEY COUPLING	BS 970 EN8	1
W22	SHAFT		1
W23	BOLT (OUTER COVER / BED)		1
W24	GASKET(OUTER COVER/BED)		1
W25	BEARING COUPLING END	STEEL	1
W26	VENT	PP	1
W27	BEARING PUMP END	STEEL	1
W28	BEARING COVER INNER	IS 210 FG200	1
W29	DEFLECTOR		1
W30	GLAND		1
W31	STUD (BED /S.BOX)		1
W32	GLAND PACKING	TIGA / PTFE	1 SET

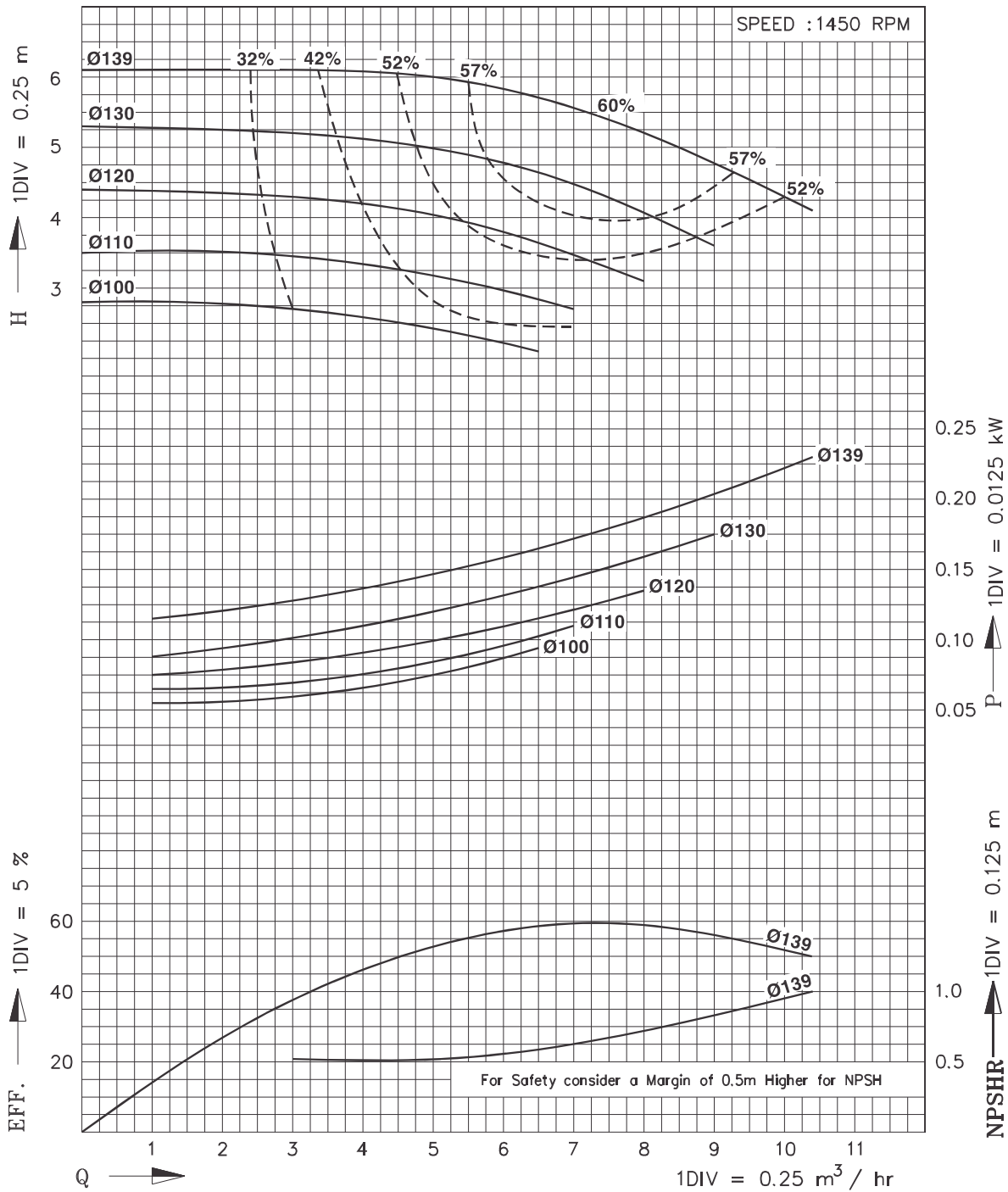


PERFORMANCE CURVE

Model : ECW-32/130

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

SIZE : 50 x 32



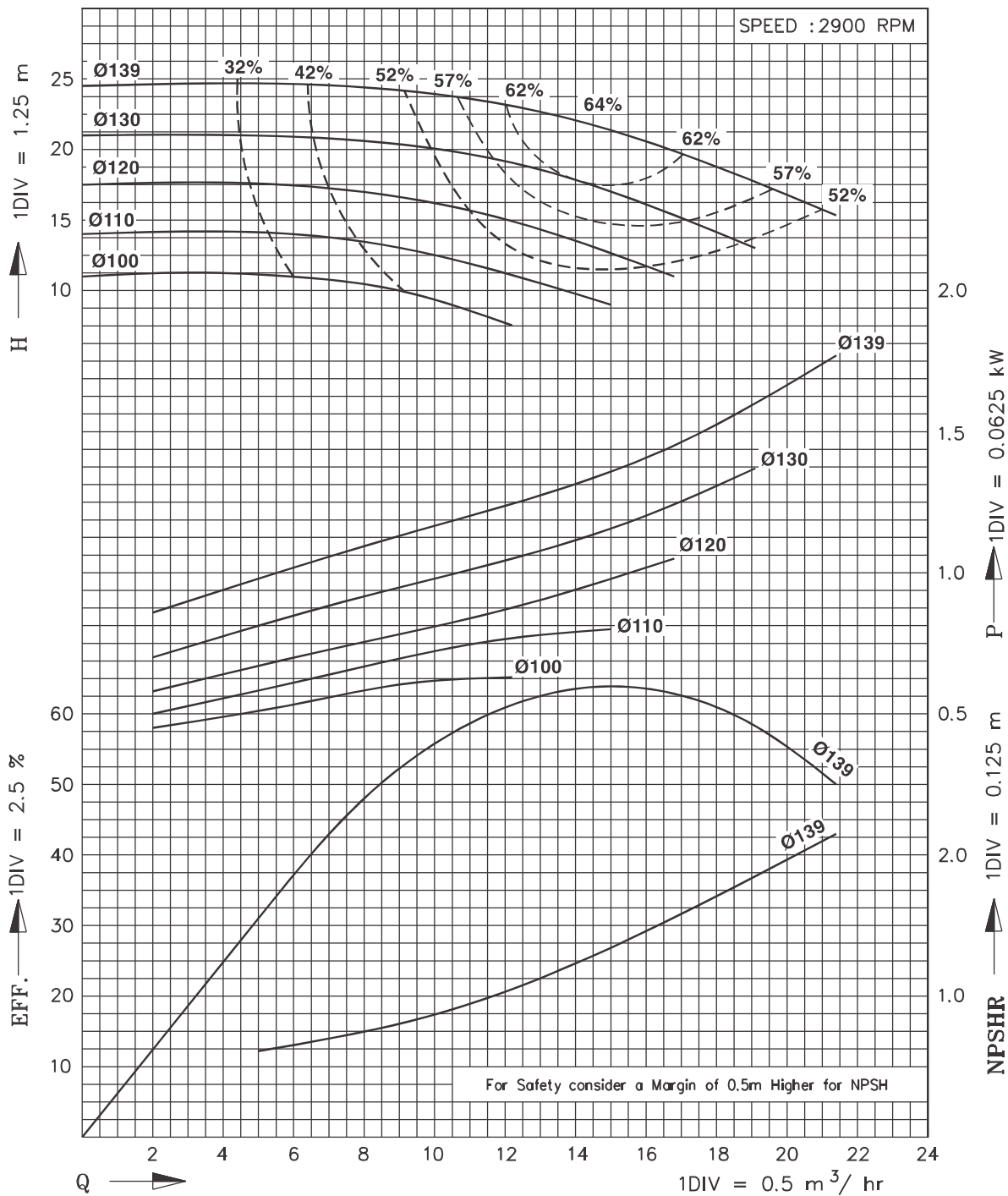


PERFORMANCE CURVE

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SIZE : 50 x 32



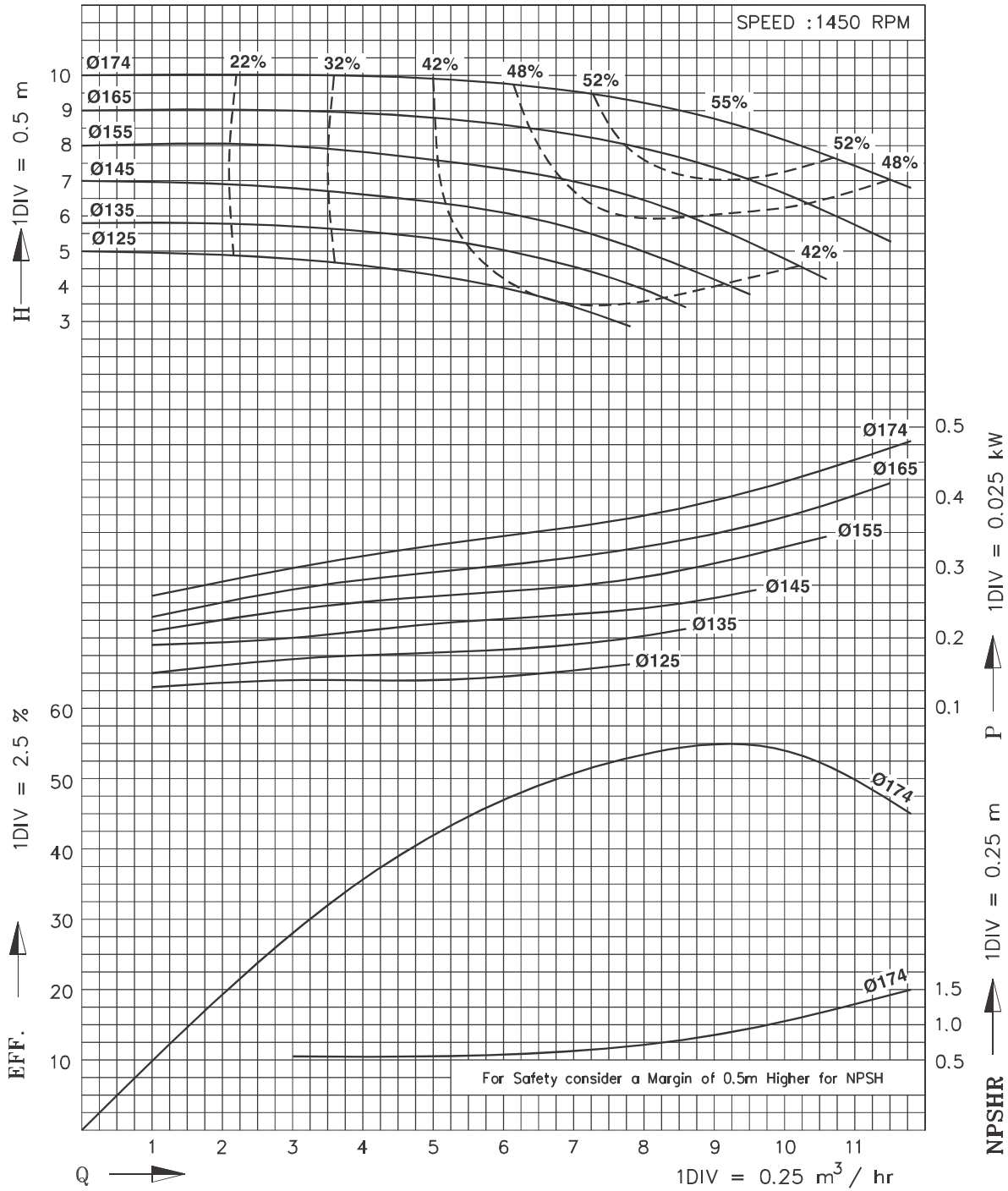


PERFORMANCE CURVE

Model : ECW-32/160

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

SIZE : 50 x 32



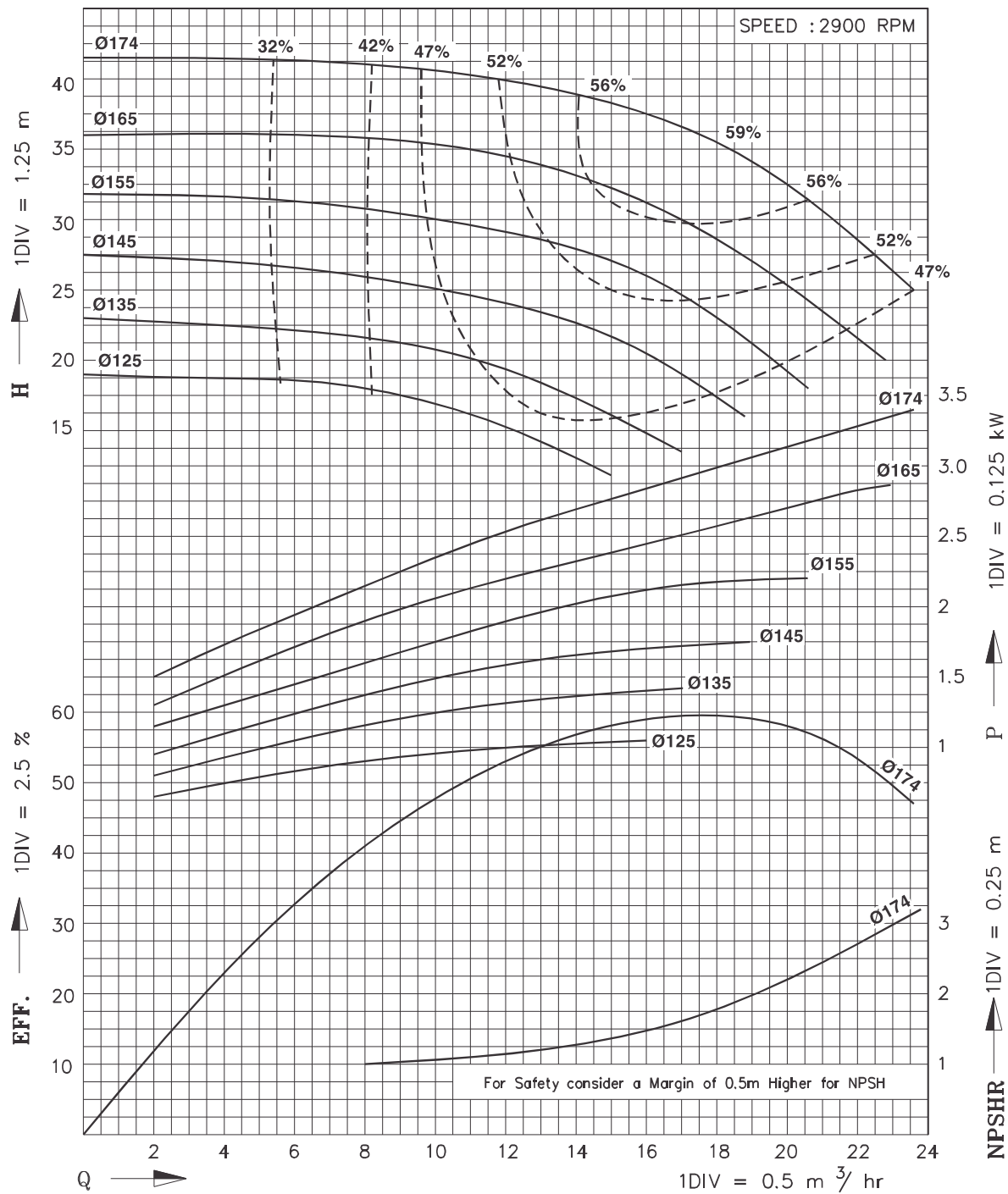


PERFORMANCE CURVE

Model : ECW-32/160

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

SIZE : 50 x 32



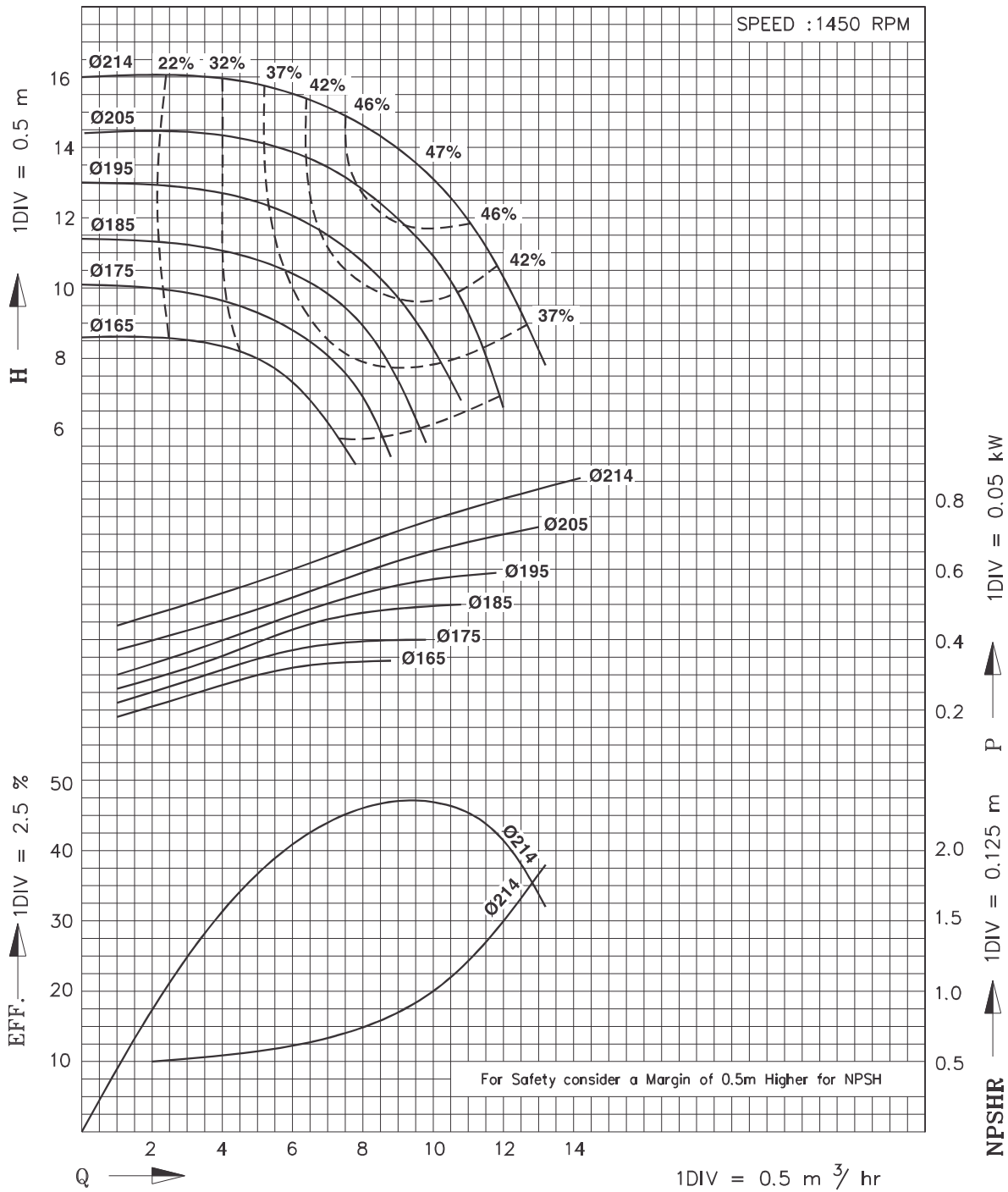


PERFORMANCE CURVE

Model : ECW-32/200

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

SIZE : 50 x 32



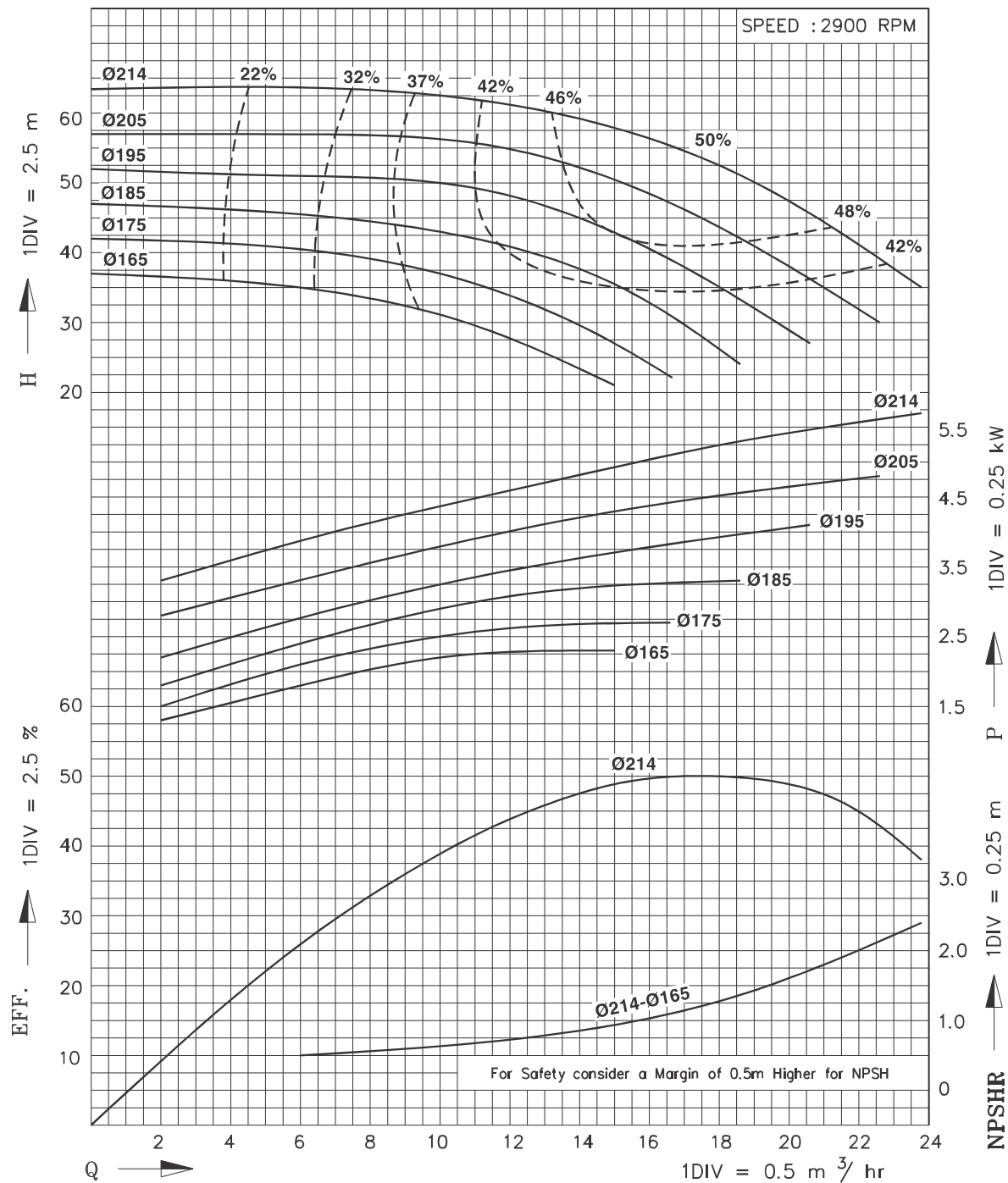


PERFORMANCE CURVE

Model : ECW-32/200

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

SIZE : 50 x 32



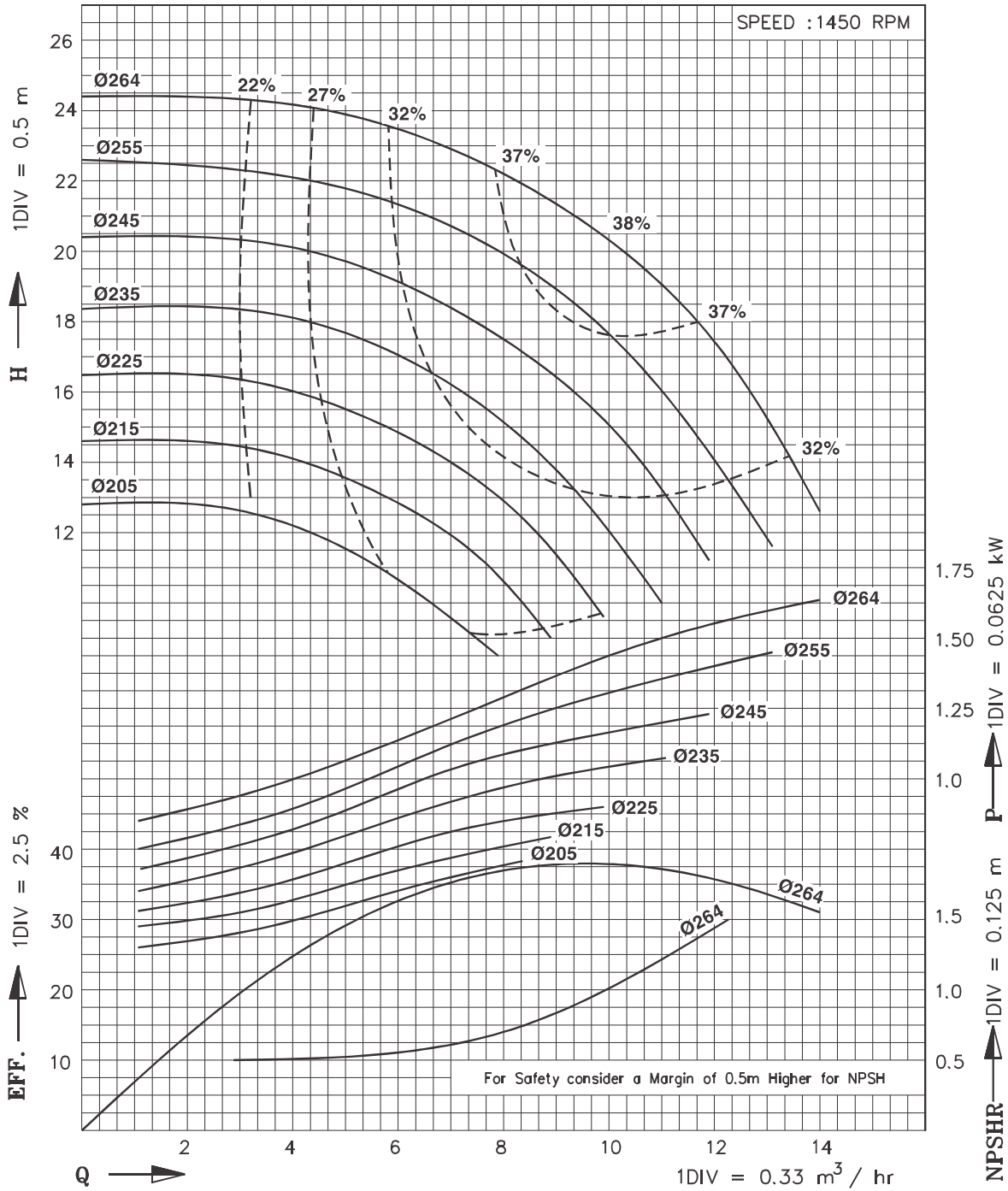


PERFORMANCE CURVE

Model : ECW-32/260

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

SIZE : 50 x 32



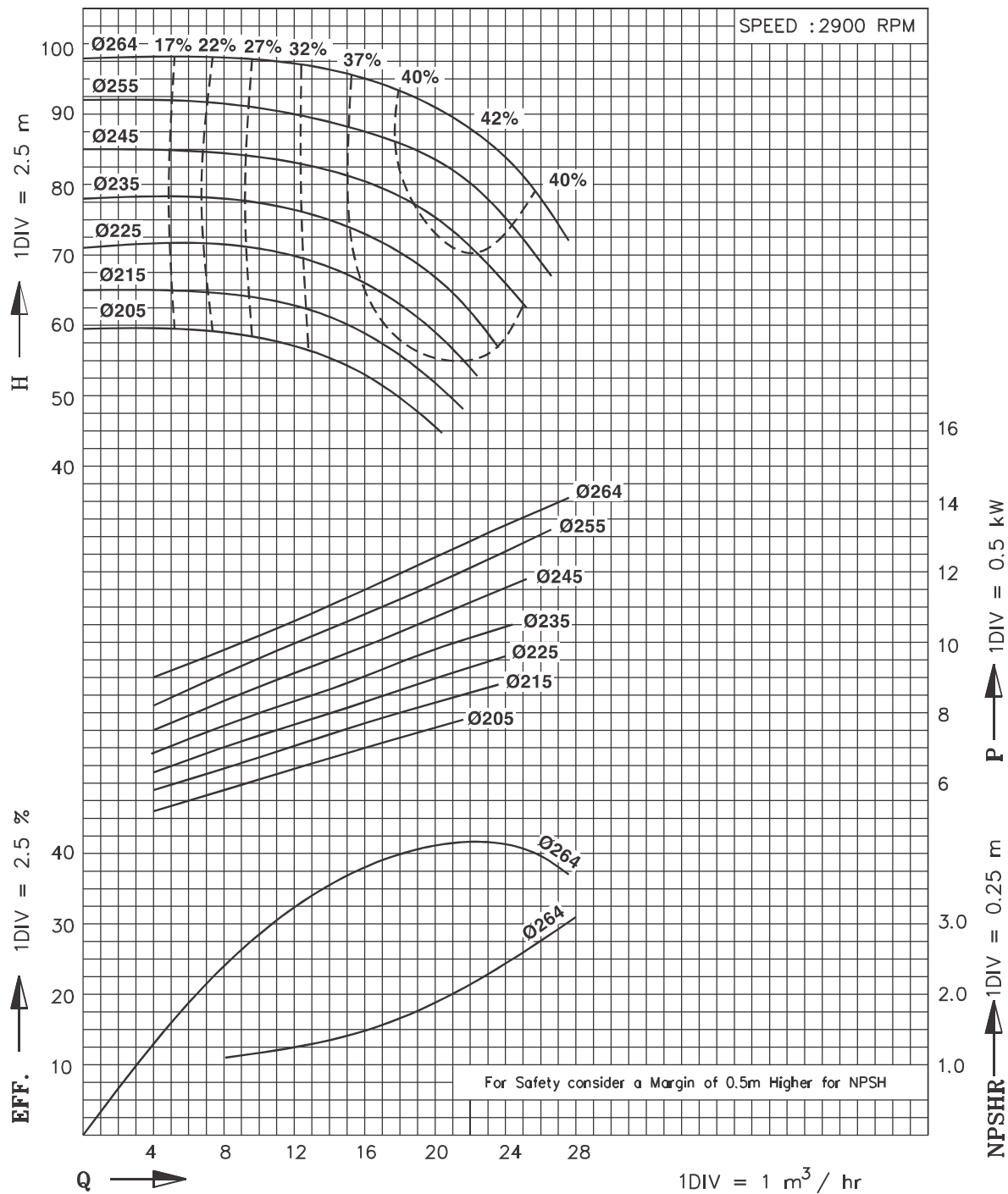


PERFORMANCE CURVE

Model : ECW-32/260

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

SIZE : 50 x 32



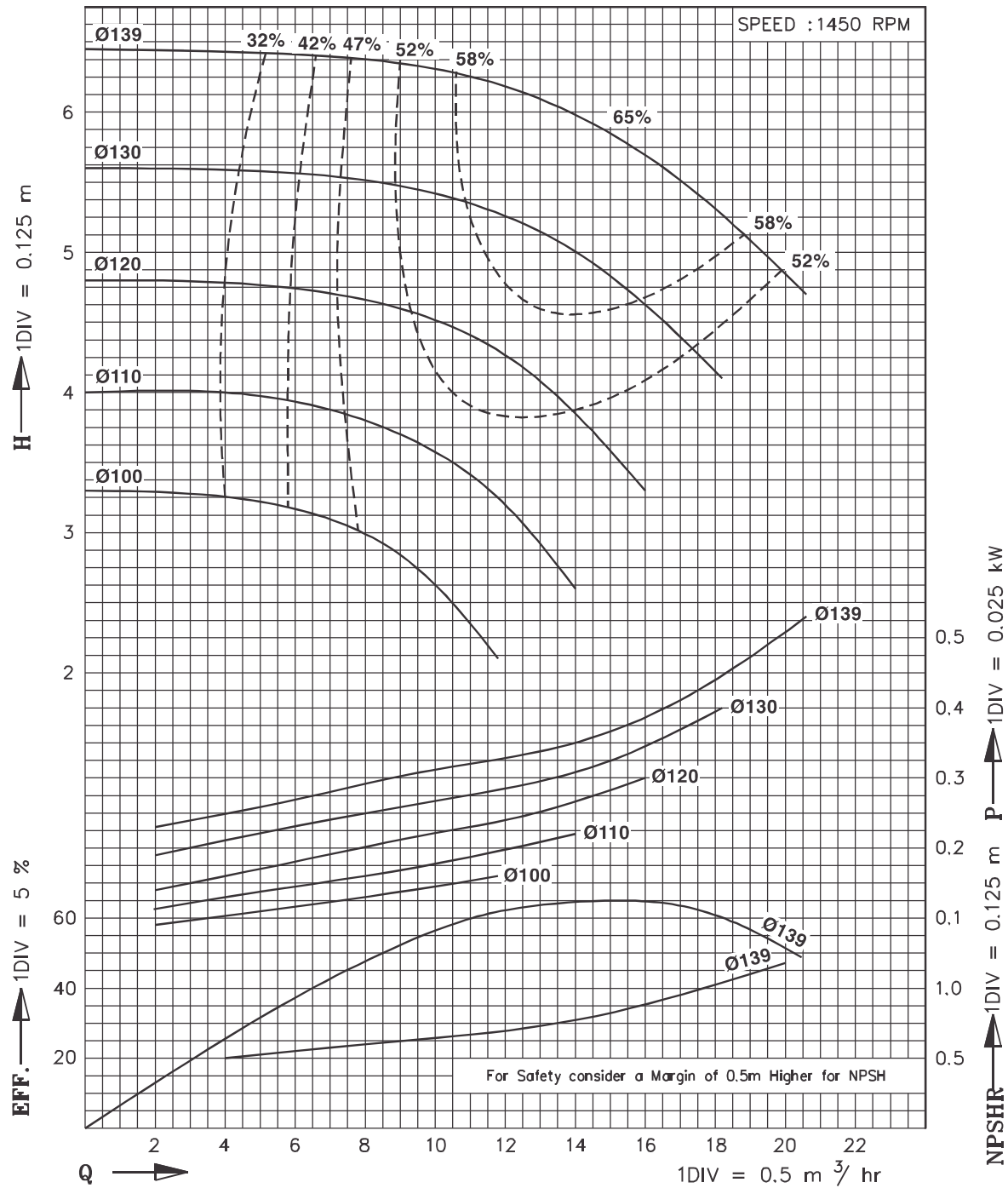


PERFORMANCE CURVE

Model : ECW-40/130

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

SIZE : 65 x 40



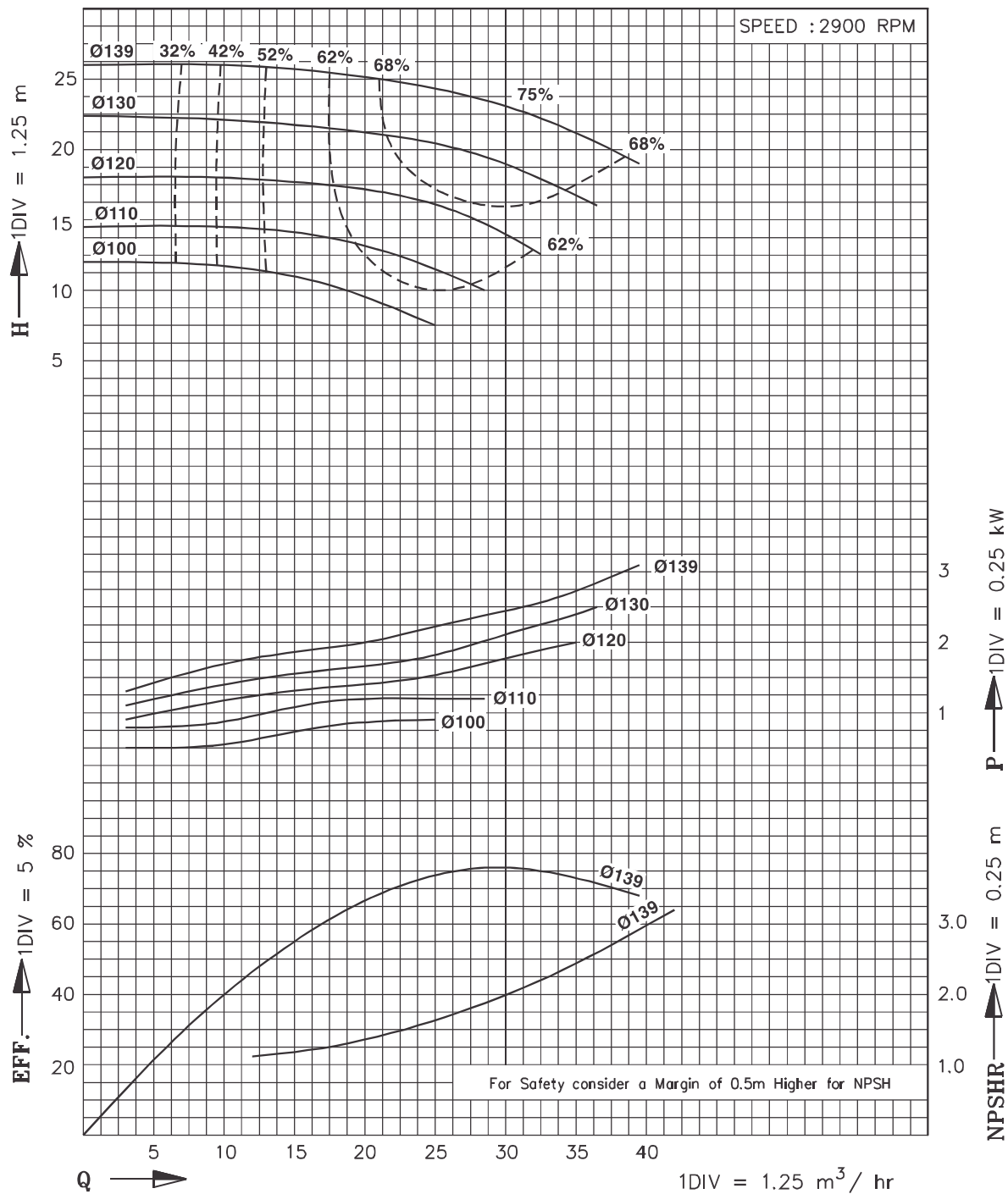


PERFORMANCE CURVE

Model : ECW-40/130

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

SIZE : 65 x 40



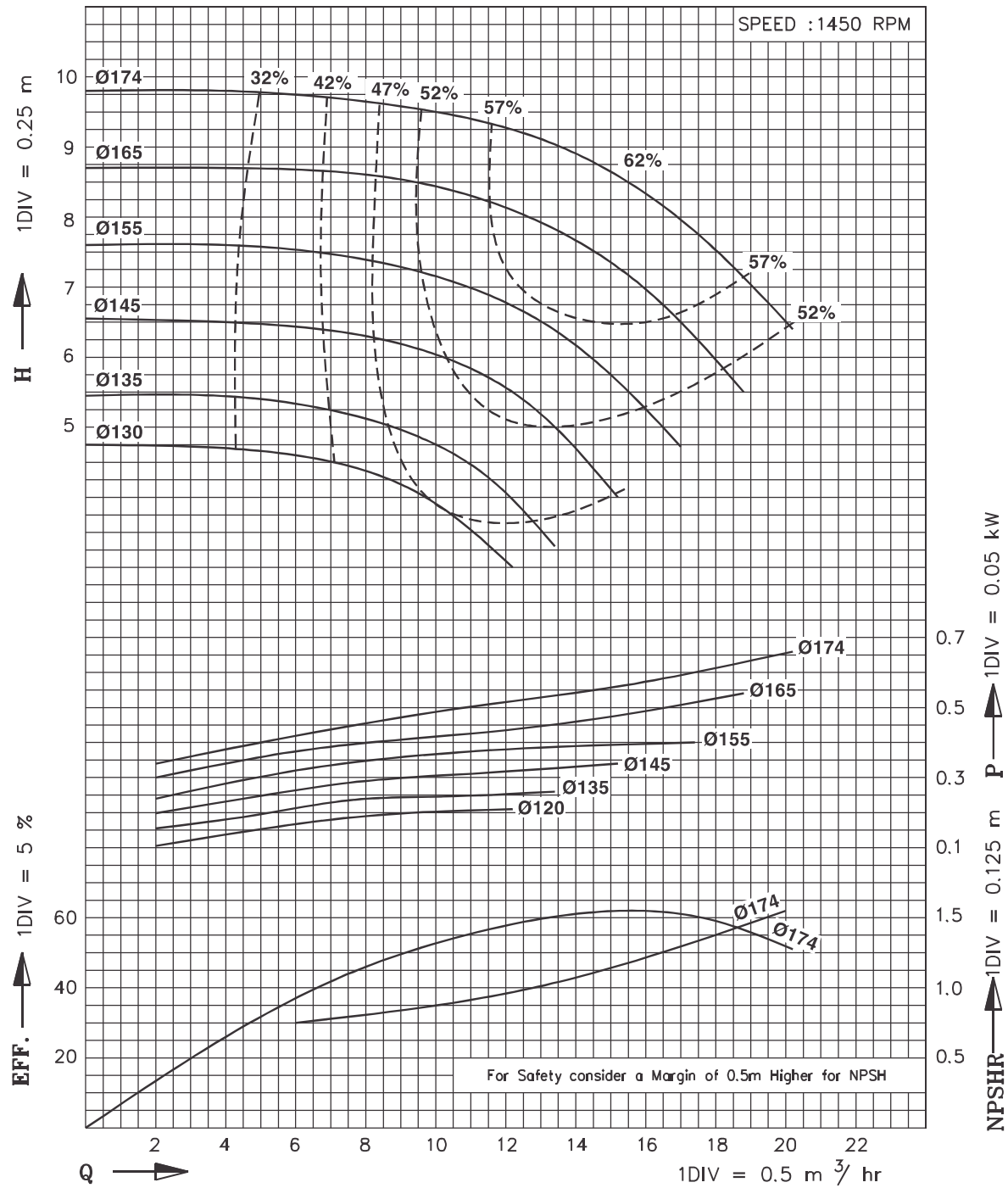


PERFORMANCE CURVE

Model : ECW-40/160

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

SIZE : 65 x 40



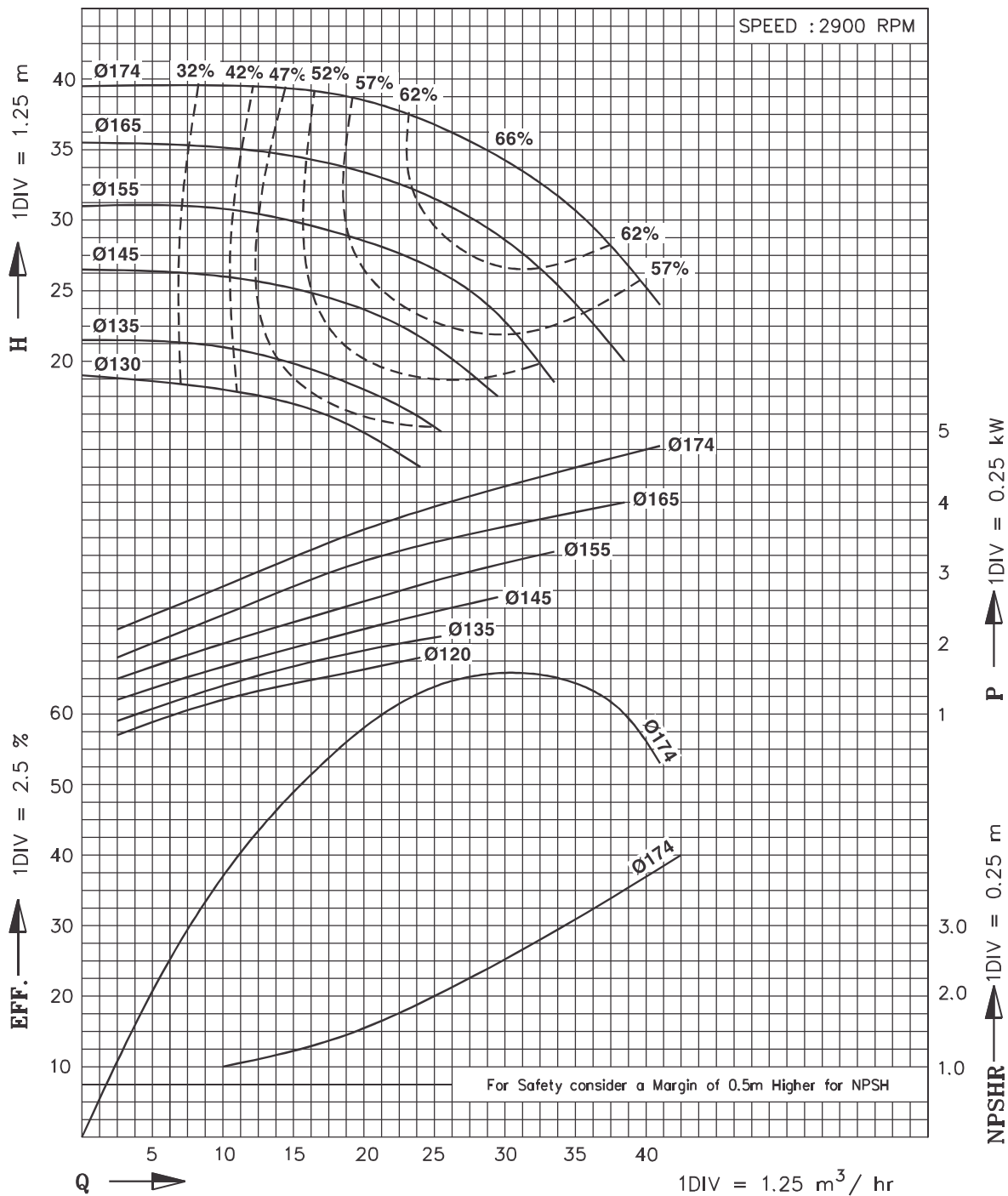


PERFORMANCE CURVE

Model : ECW-40/160

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

SIZE : 65 x 40



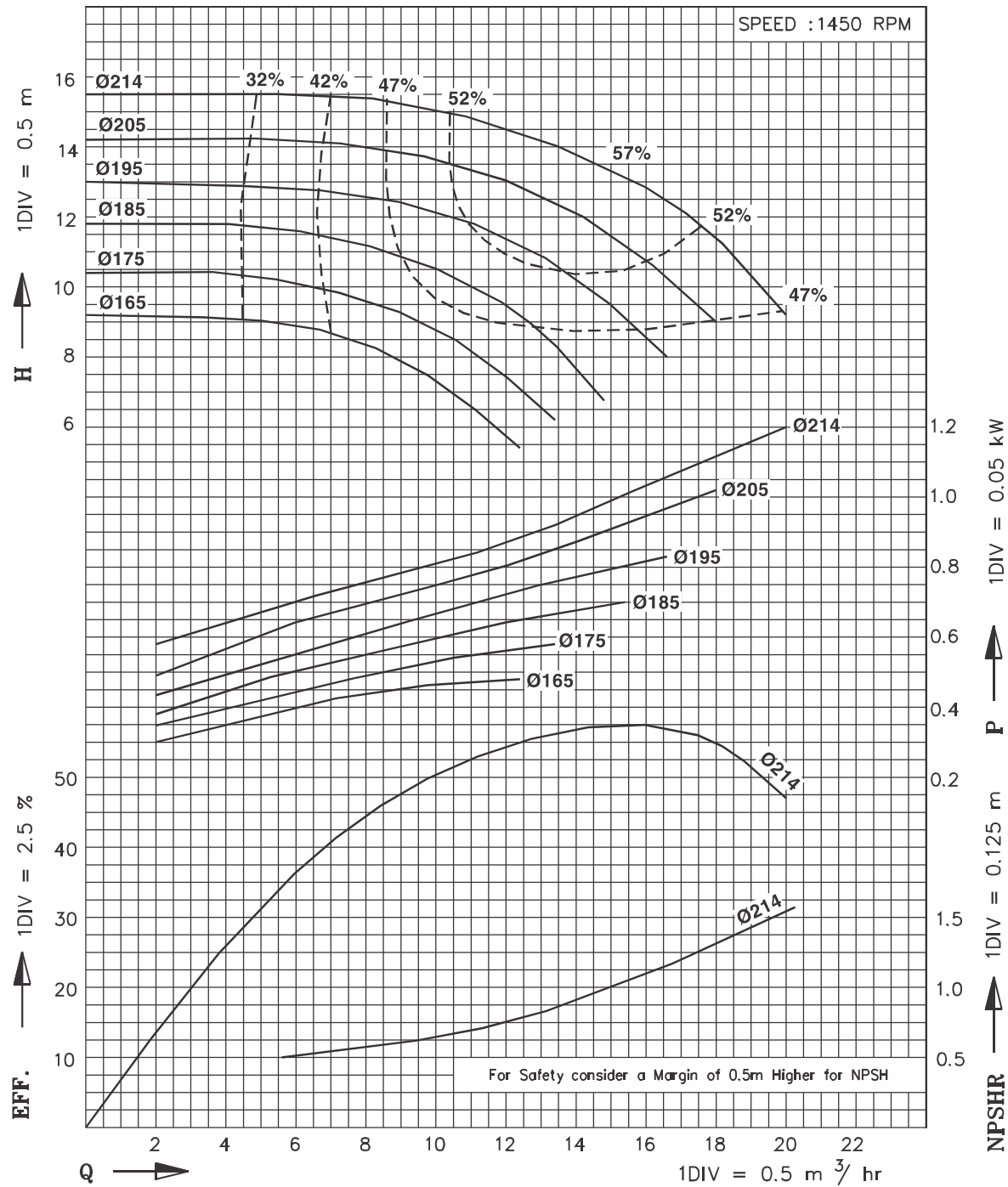


PERFORMANCE CURVE

Model : ECW-40/200

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

SIZE : 65 x 40



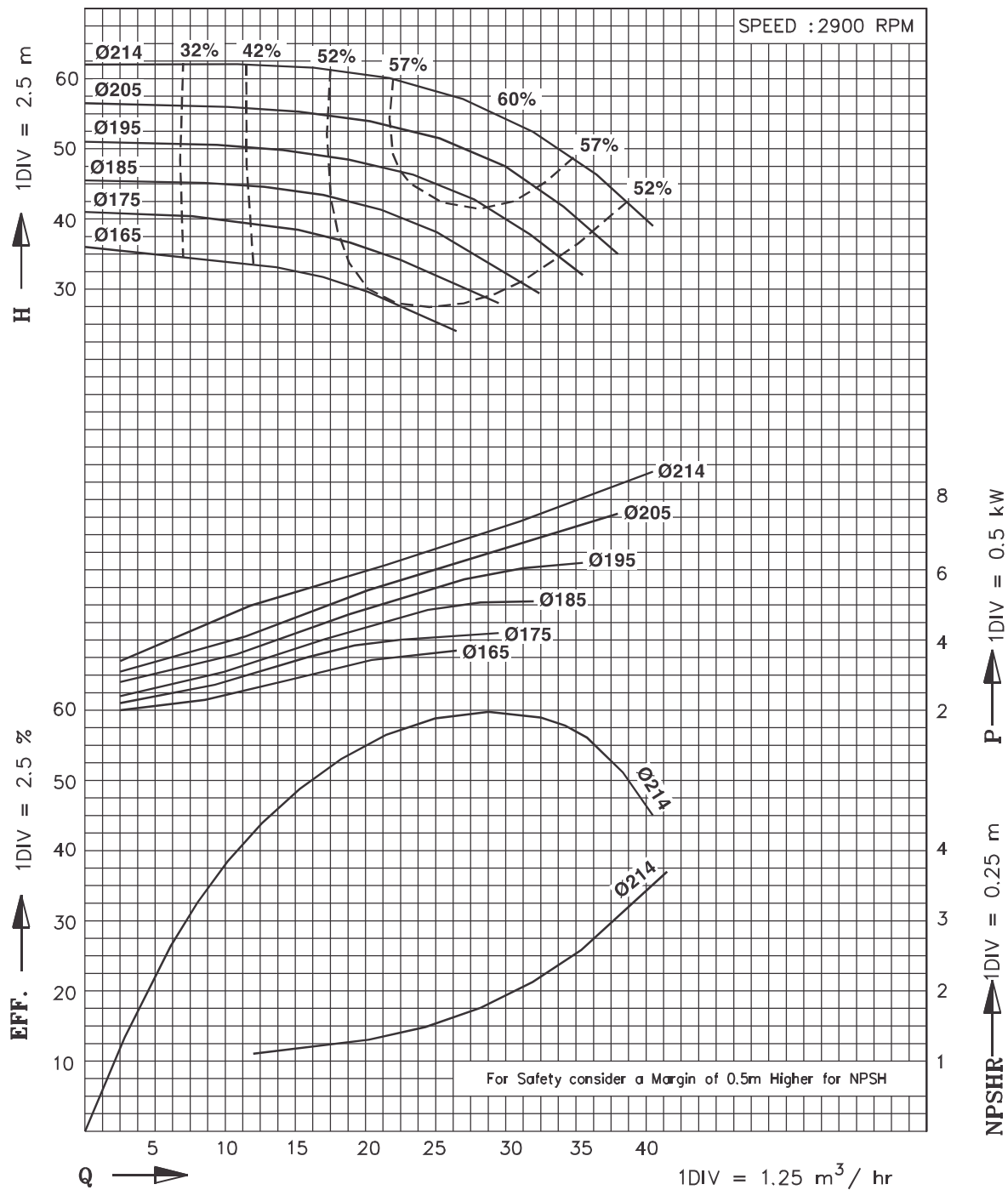


PERFORMANCE CURVE

Model : ECW-40/200

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

SIZE : 65 x 40



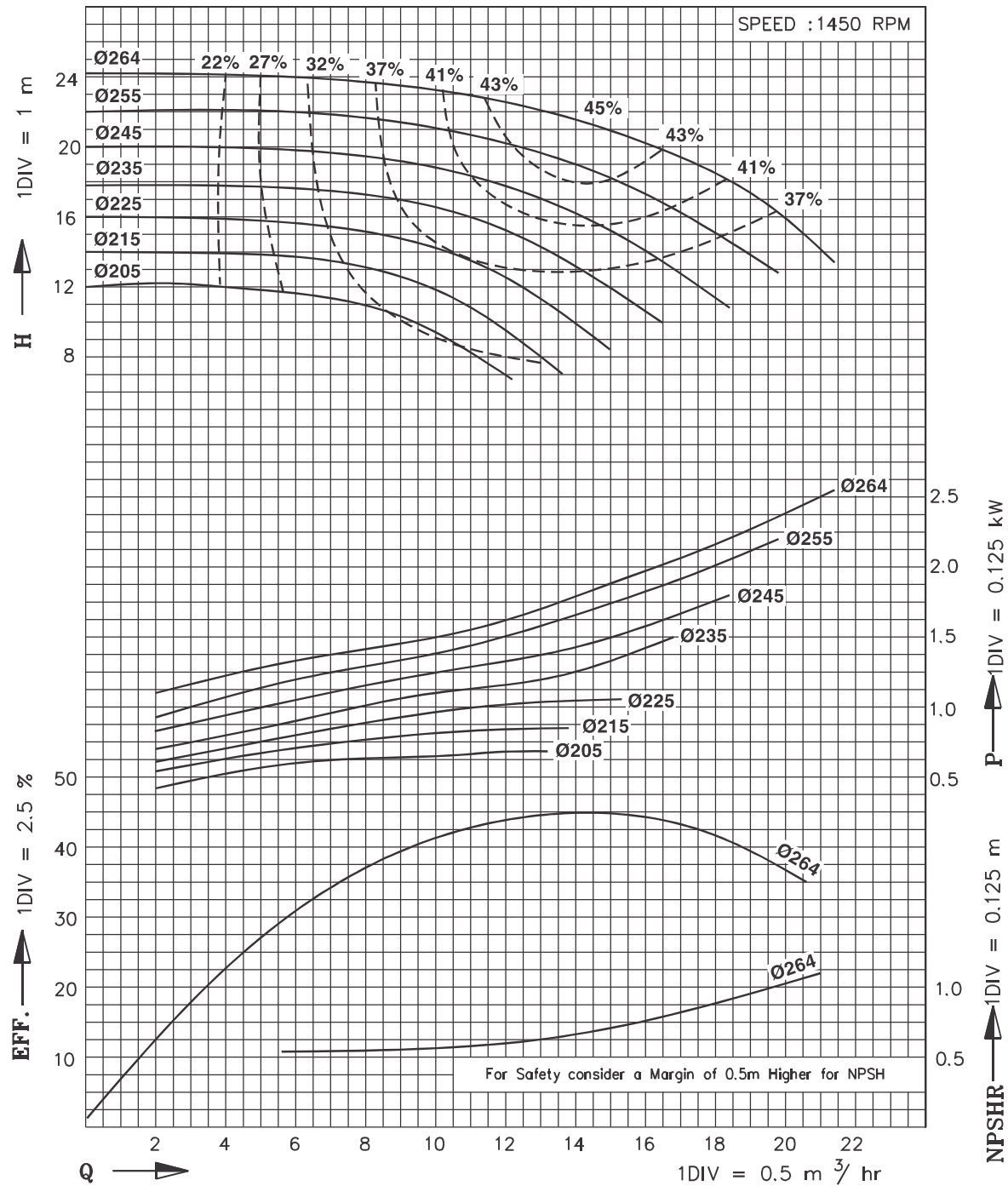


PERFORMANCE CURVE

Model : ECW-40/260

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

SIZE : 65 x 40



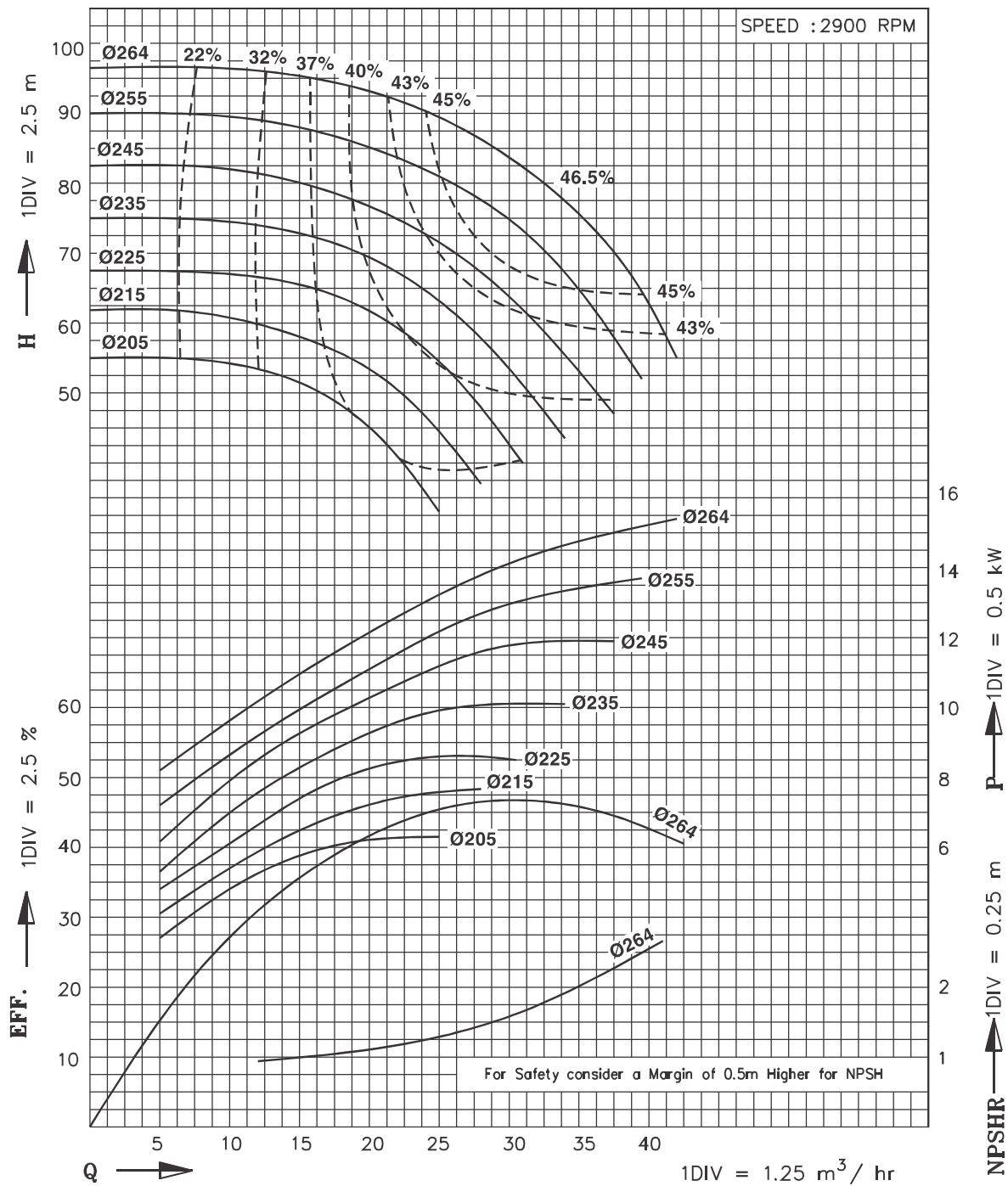


PERFORMANCE CURVE

Model : ECW-40/260

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

SIZE : 65 x 40



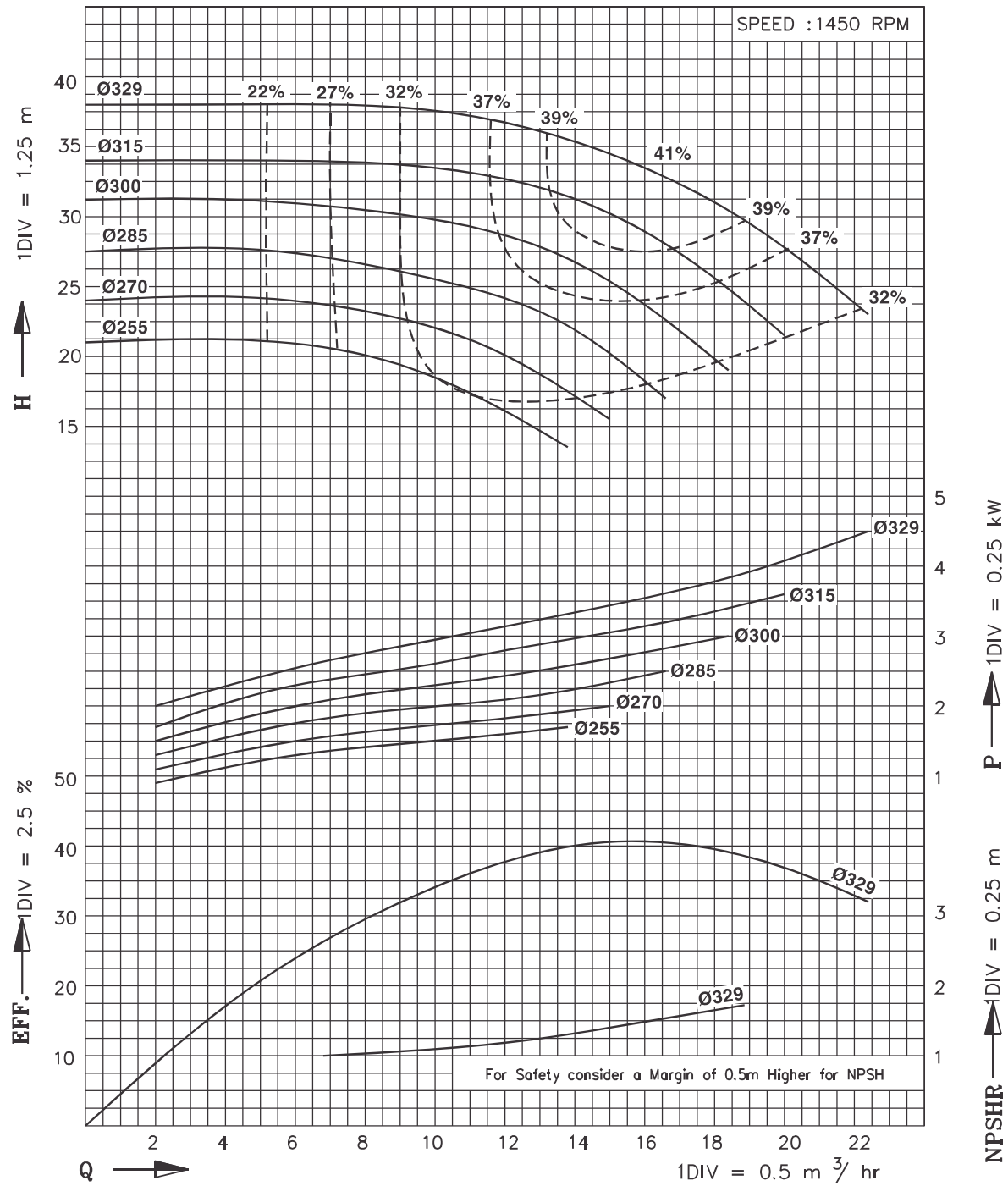


PERFORMANCE CURVE

Model : ECW-40/320

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

SIZE : 65 x 40



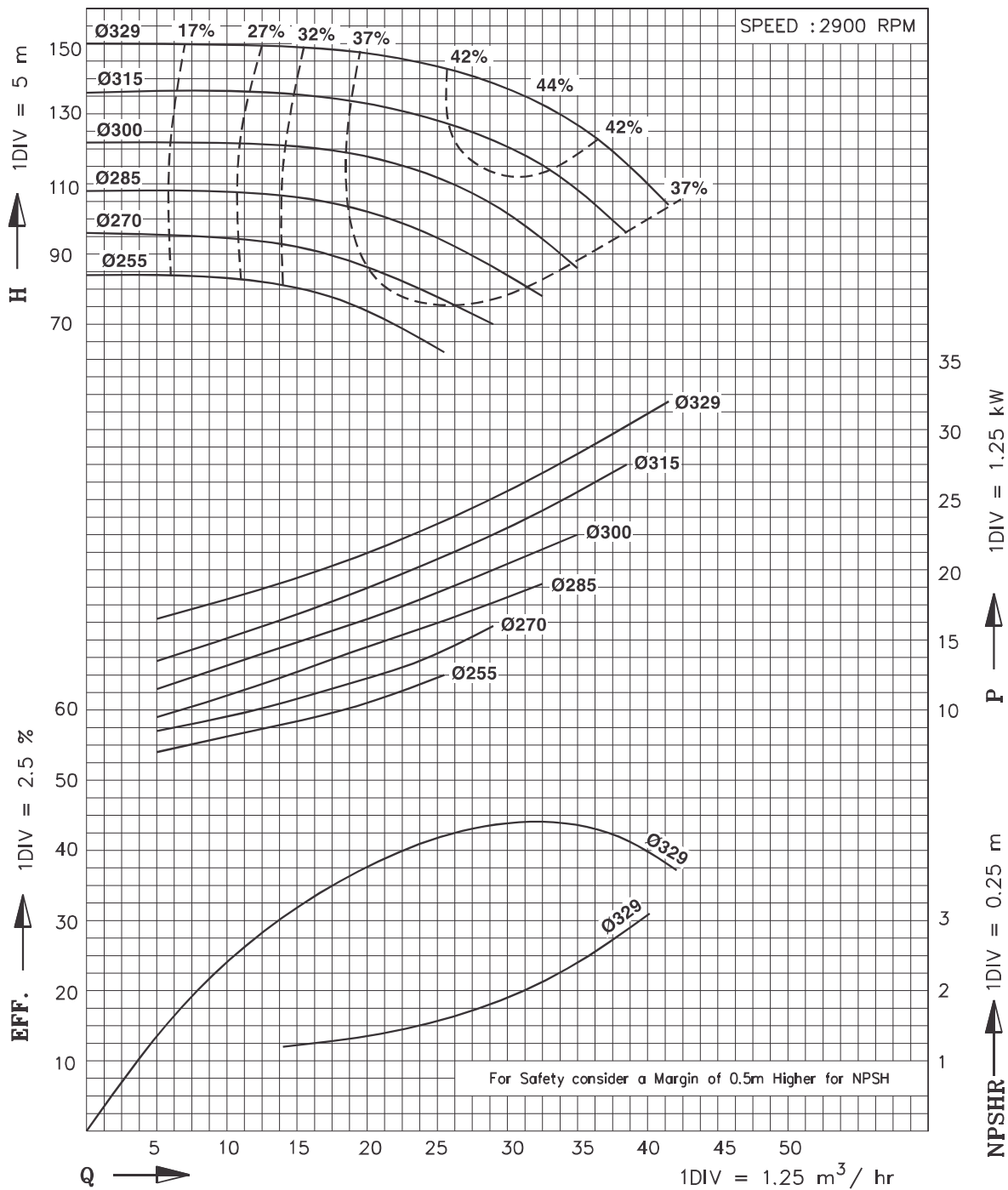


PERFORMANCE CURVE

Model : ECW-40/320-On request

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

SIZE : 65 x 40



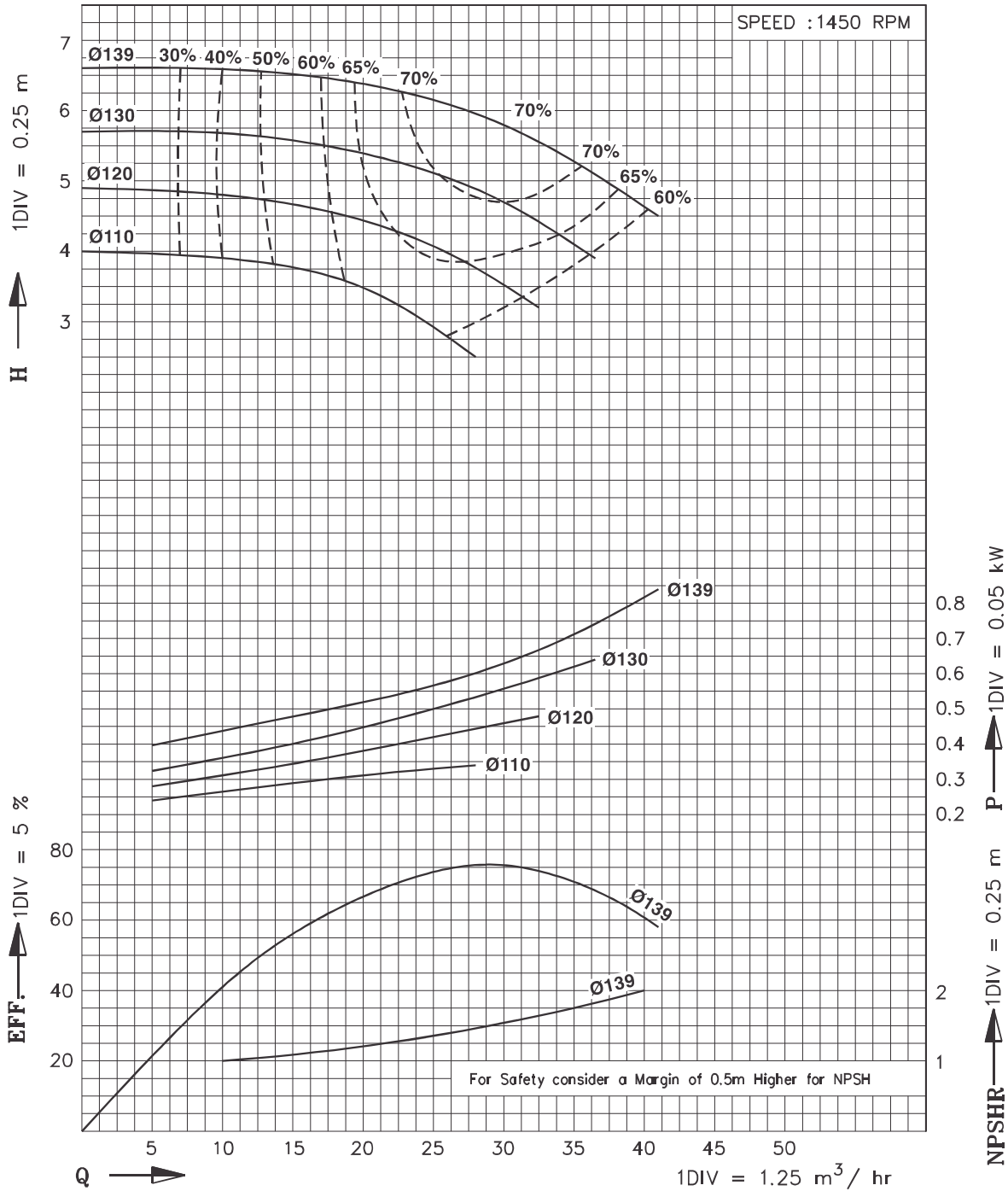


PERFORMANCE CURVE

Model : ECW-50/130

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

SIZE : 65 x 50



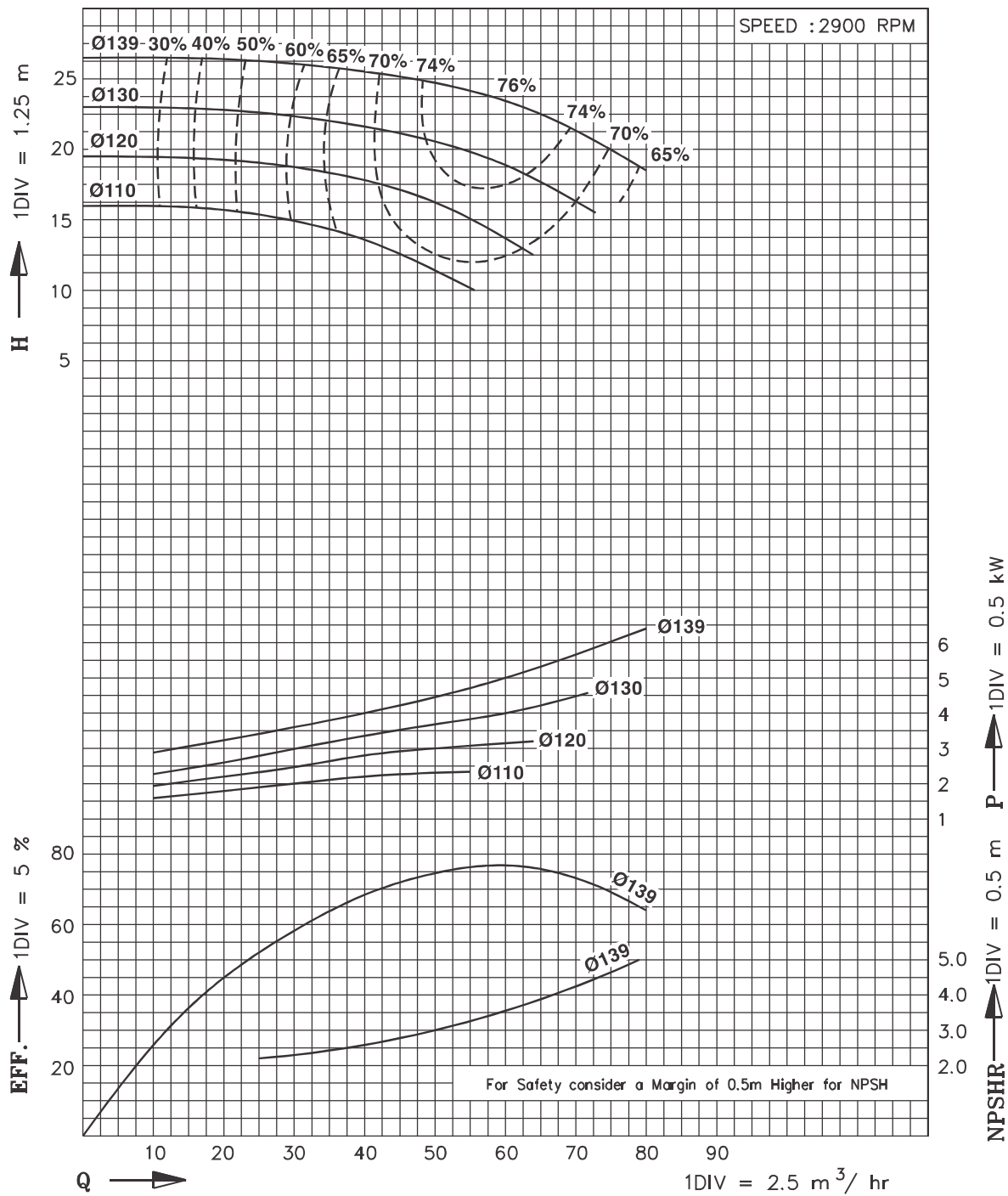


PERFORMANCE CURVE

Model : ECW-50/130

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

SIZE : 65 x 50



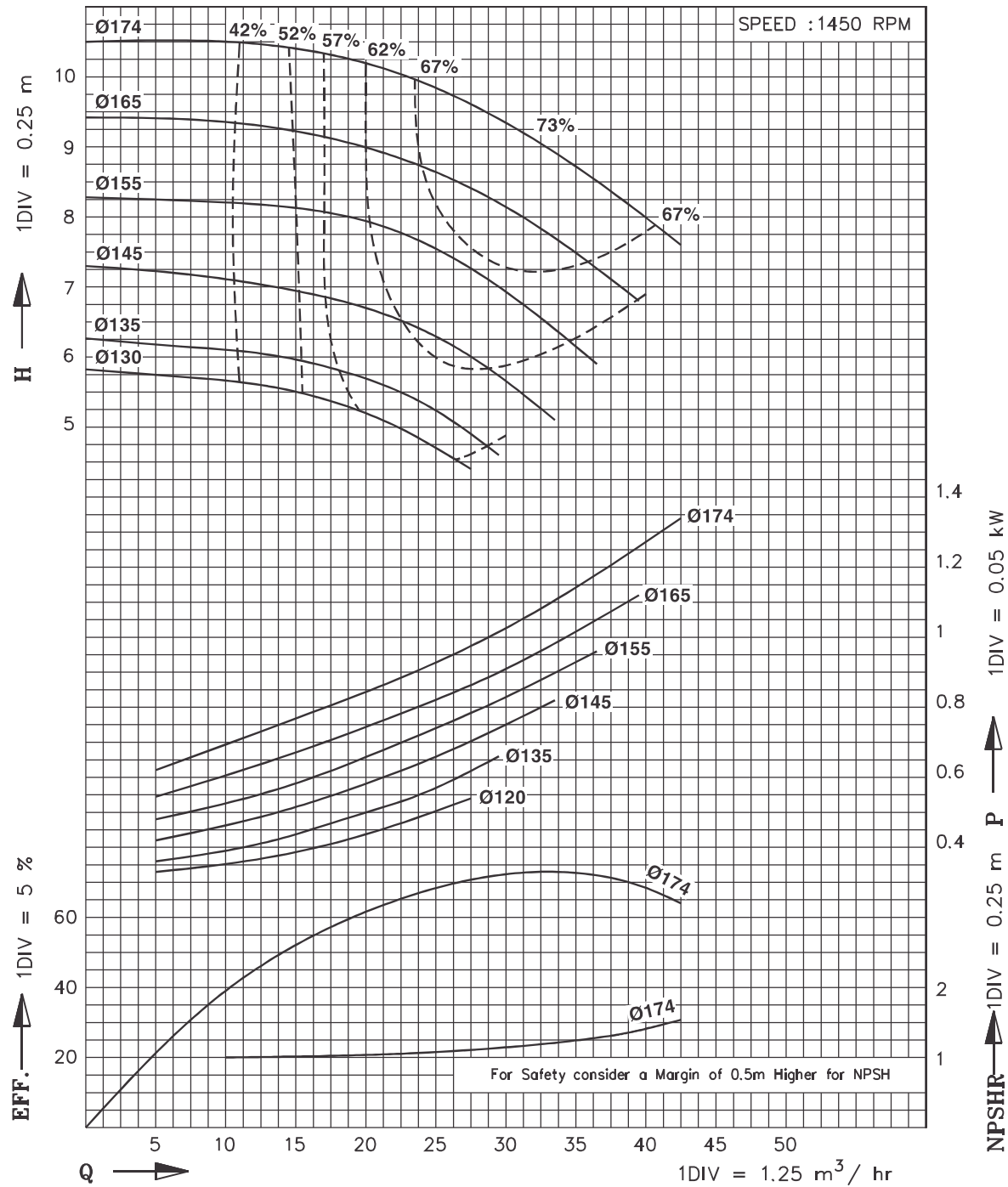


PERFORMANCE CURVE

Model : ECW-50/160

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

SIZE : 65 x 50



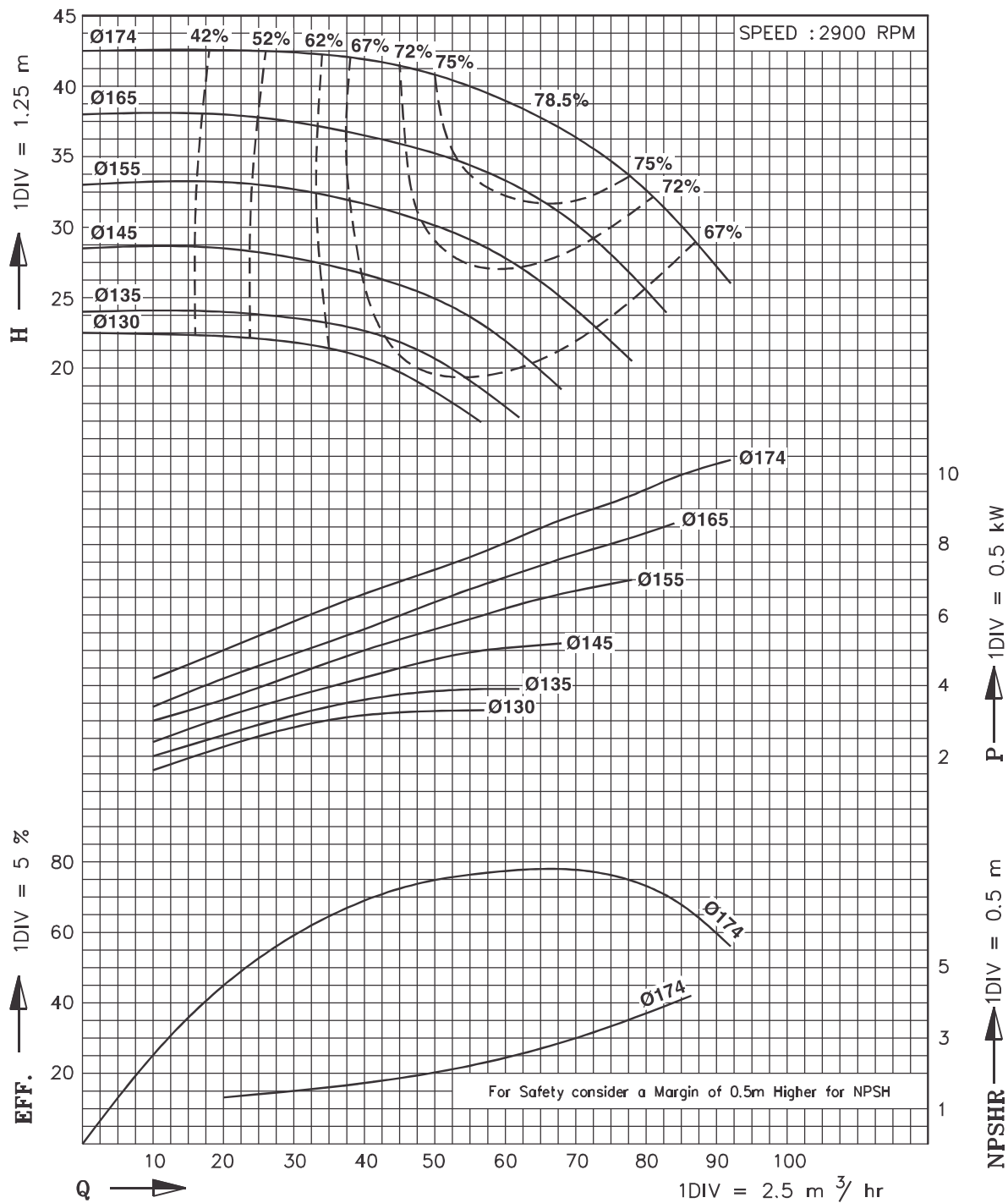


PERFORMANCE CURVE

Model : ECW-50/160

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

SIZE : 65 x 50



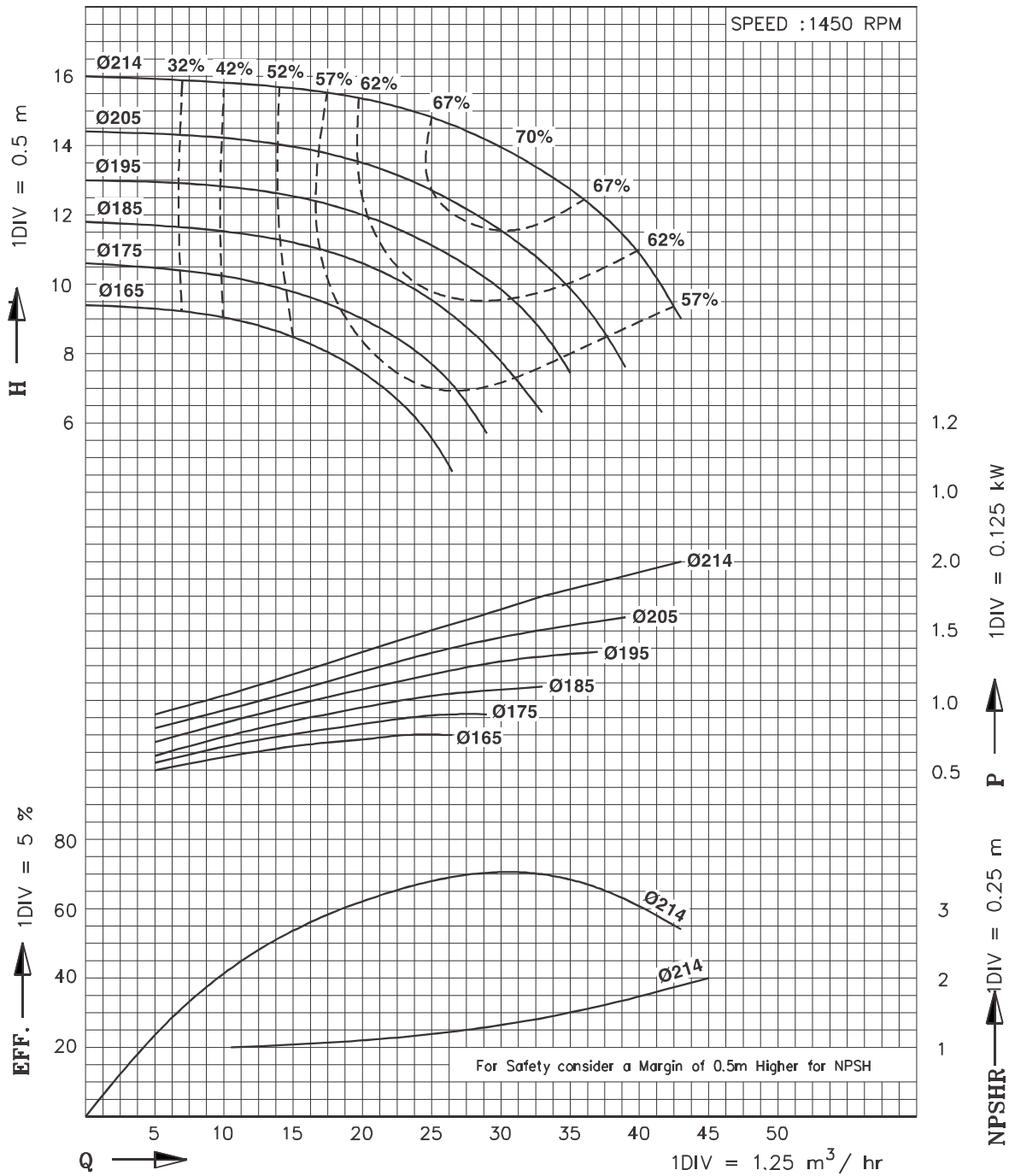


PERFORMANCE CURVE

Model : ECW-50/200

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

SIZE : 65 x 50



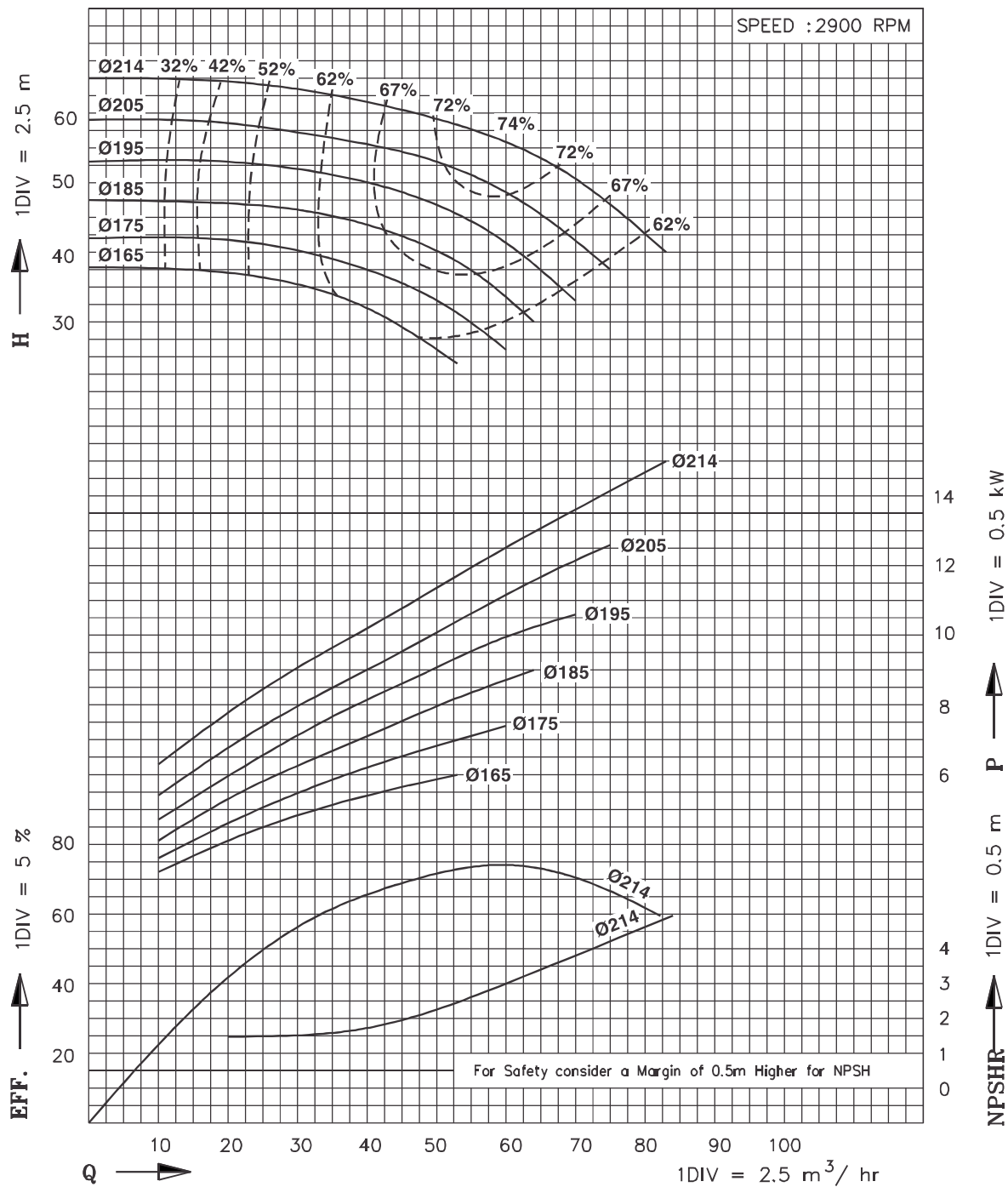


PERFORMANCE CURVE

Model : ECW-50/200

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

SIZE : 65 x 50



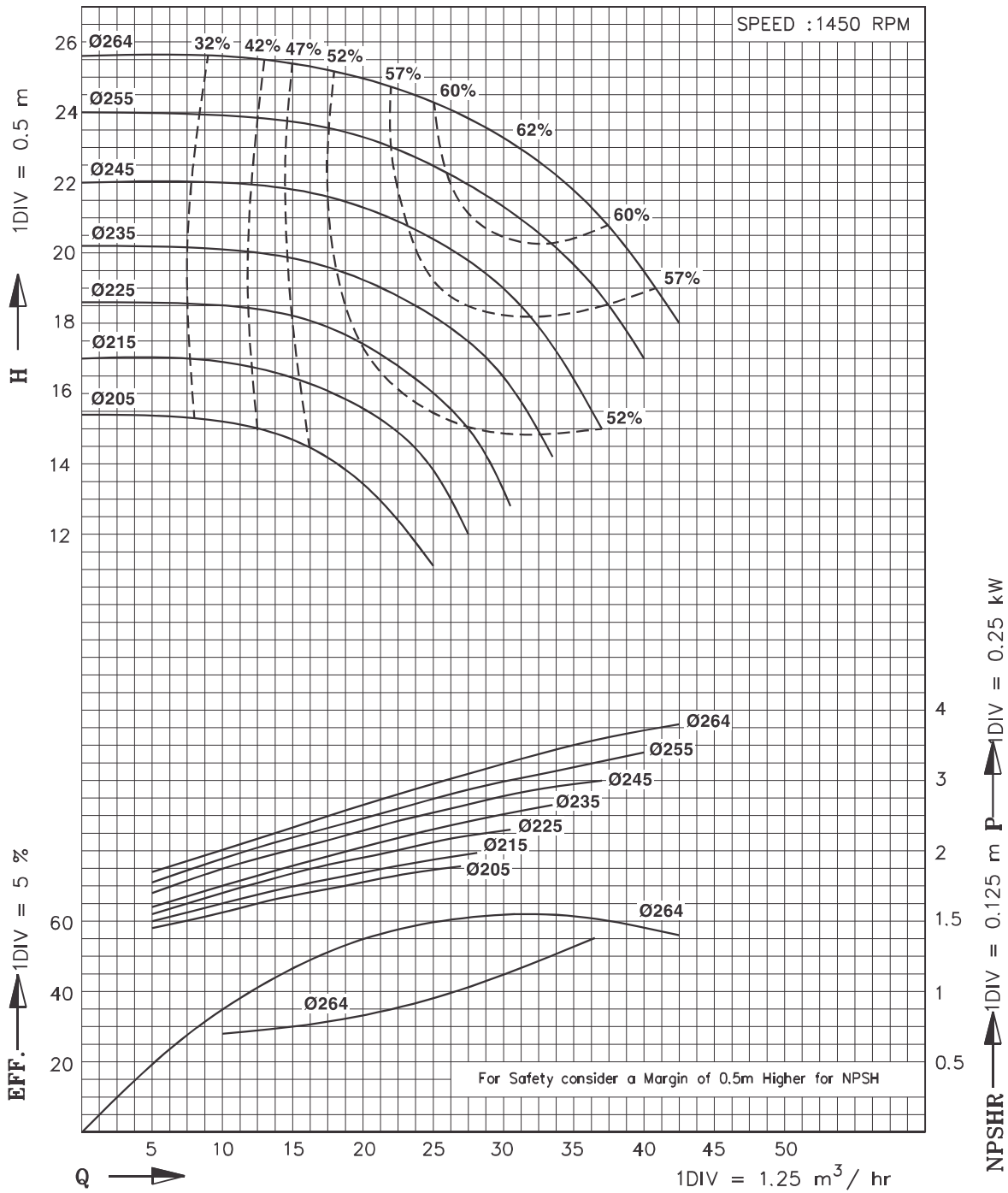


PERFORMANCE CURVE

Model : ECW-50/260

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

SIZE : 65 x 50



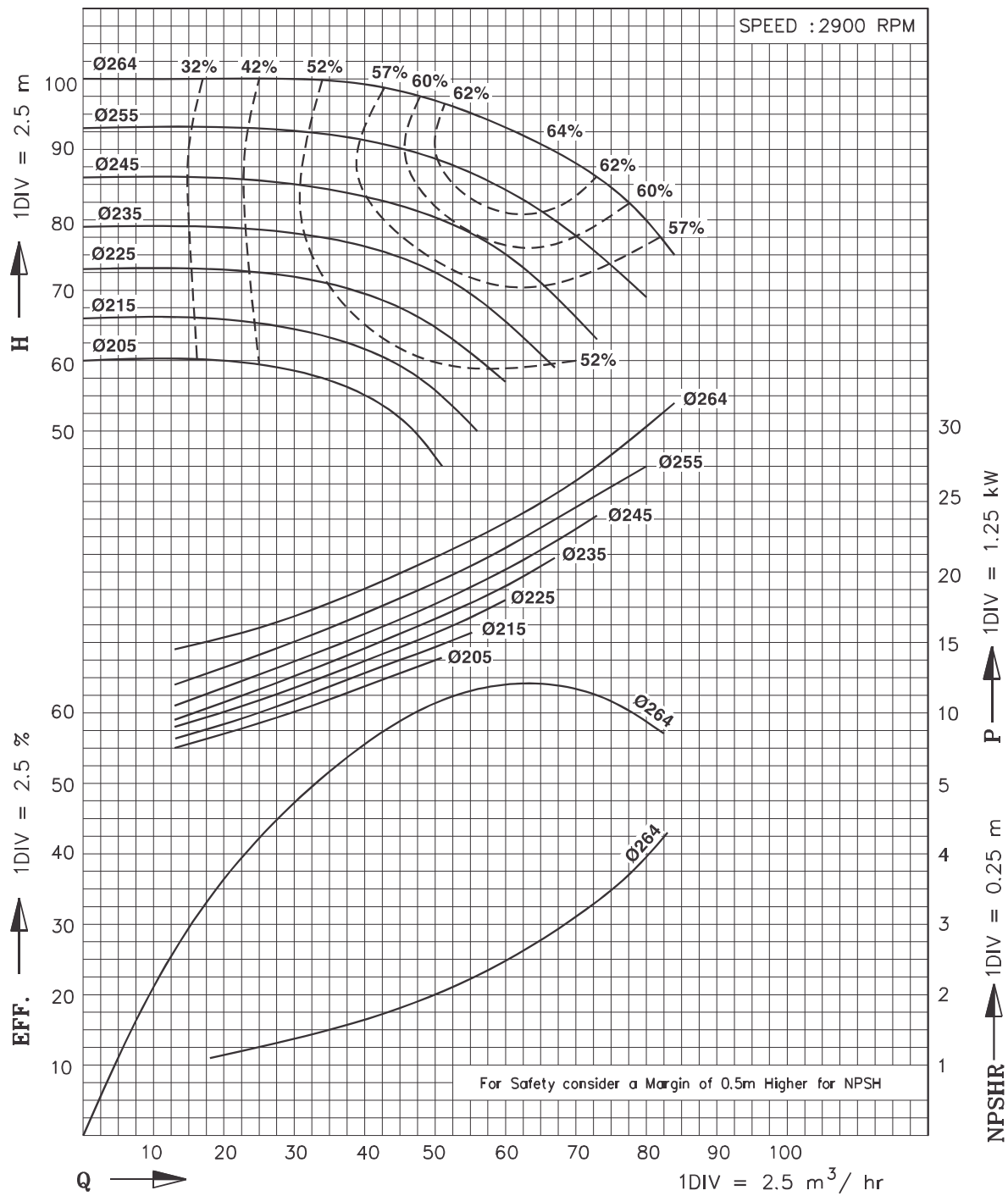


PERFORMANCE CURVE

Model : ECW-50/260

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

SIZE : 65 x 50



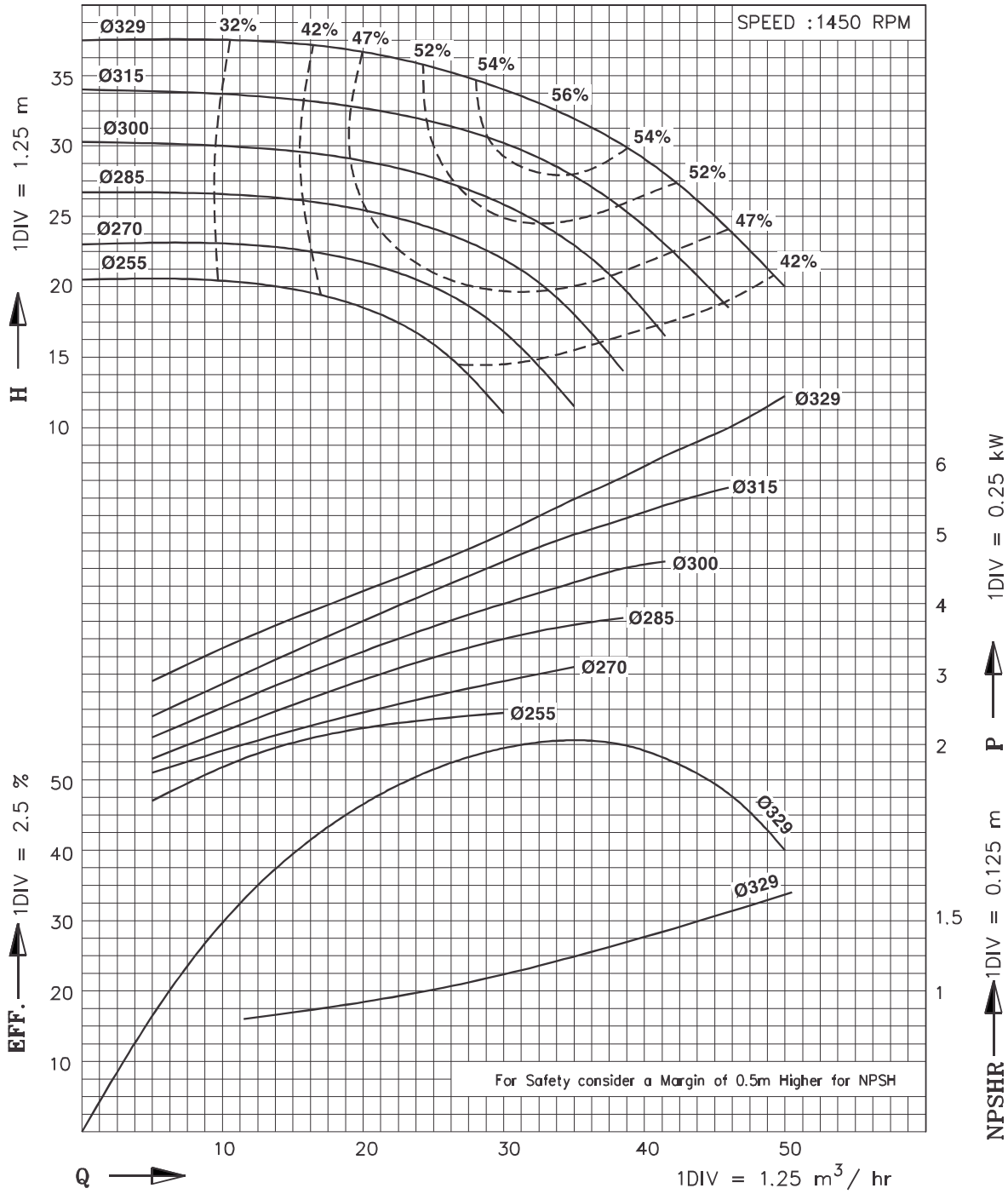


PERFORMANCE CURVE

Model : ECW-50/320

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

SIZE : 80 x 50



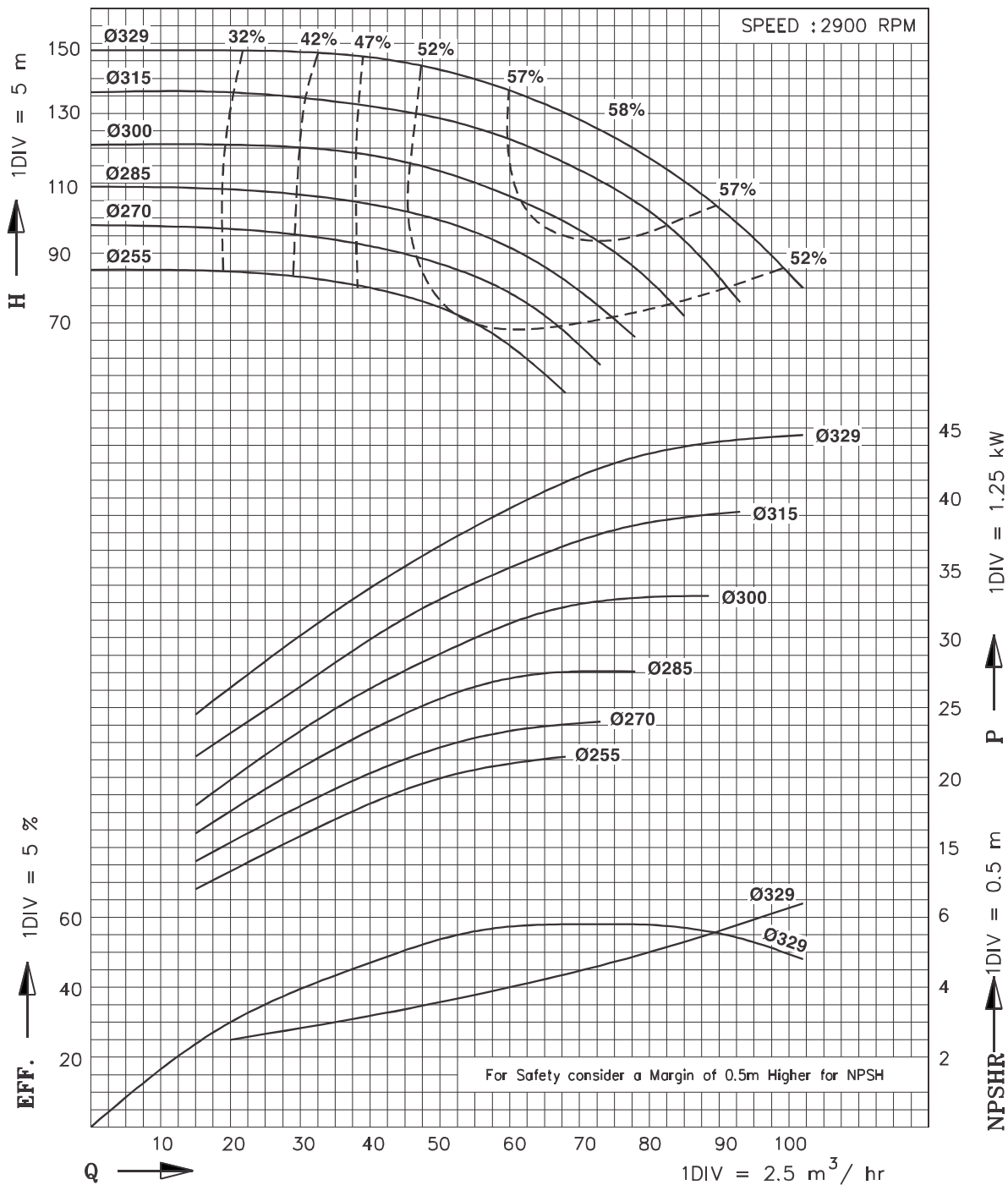


PERFORMANCE CURVE

Model : ECW-50/320-On request

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

SIZE : 80 x 50



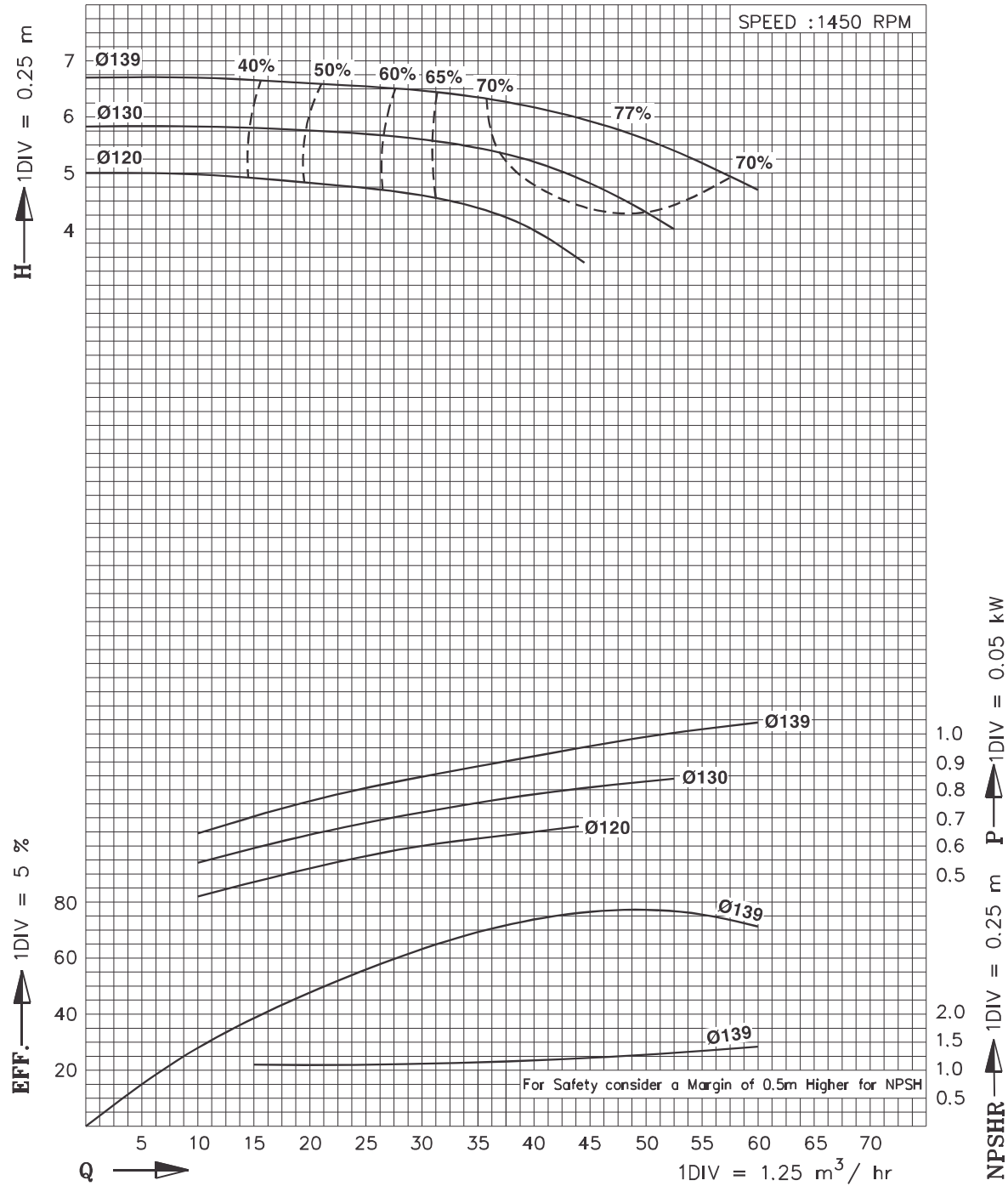


PERFORMANCE CURVE

Model : ECW-65/130

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

SIZE : 80 x 65



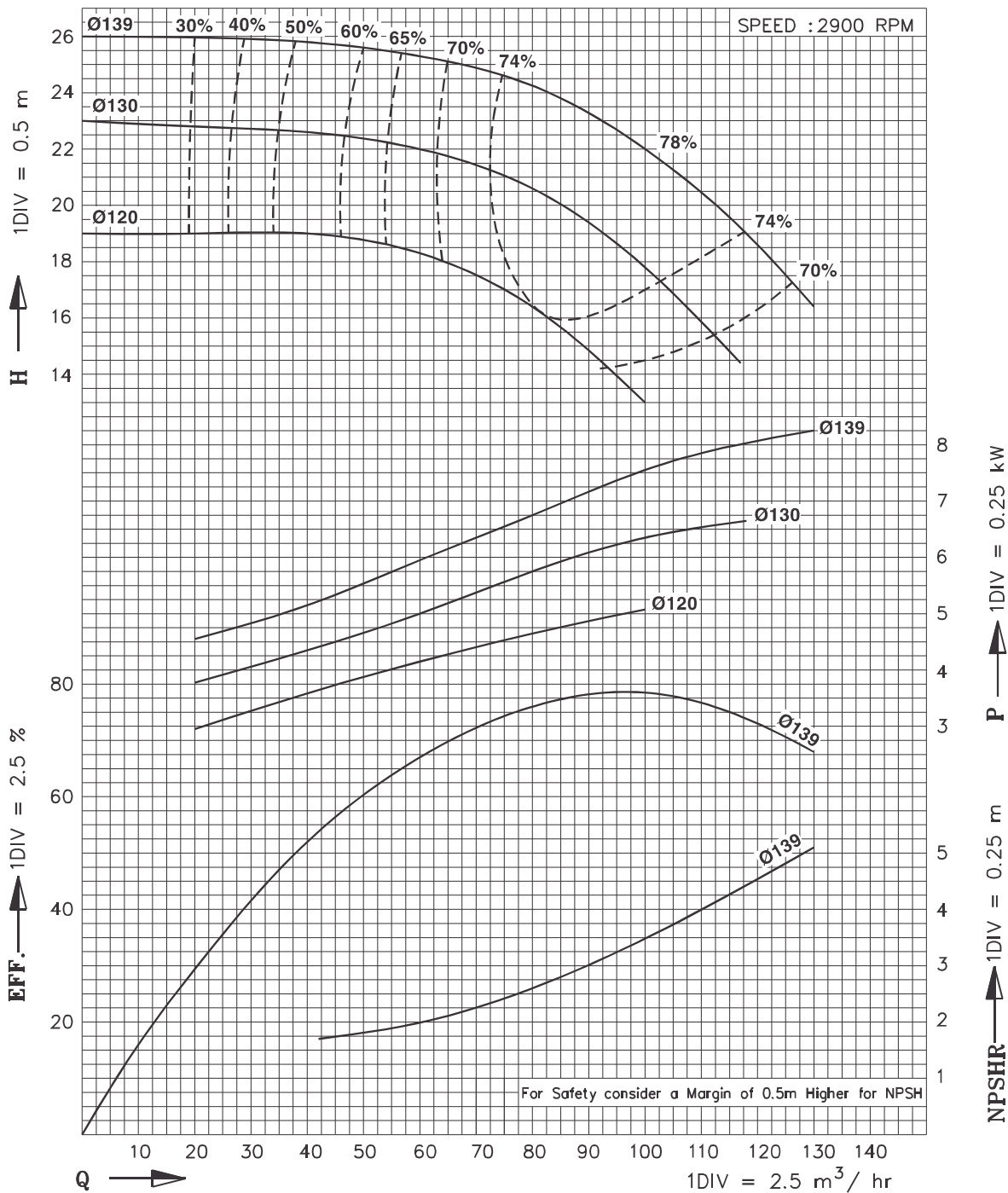


PERFORMANCE CURVE

Model : ECW-65/130

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

SIZE : 80 x 65



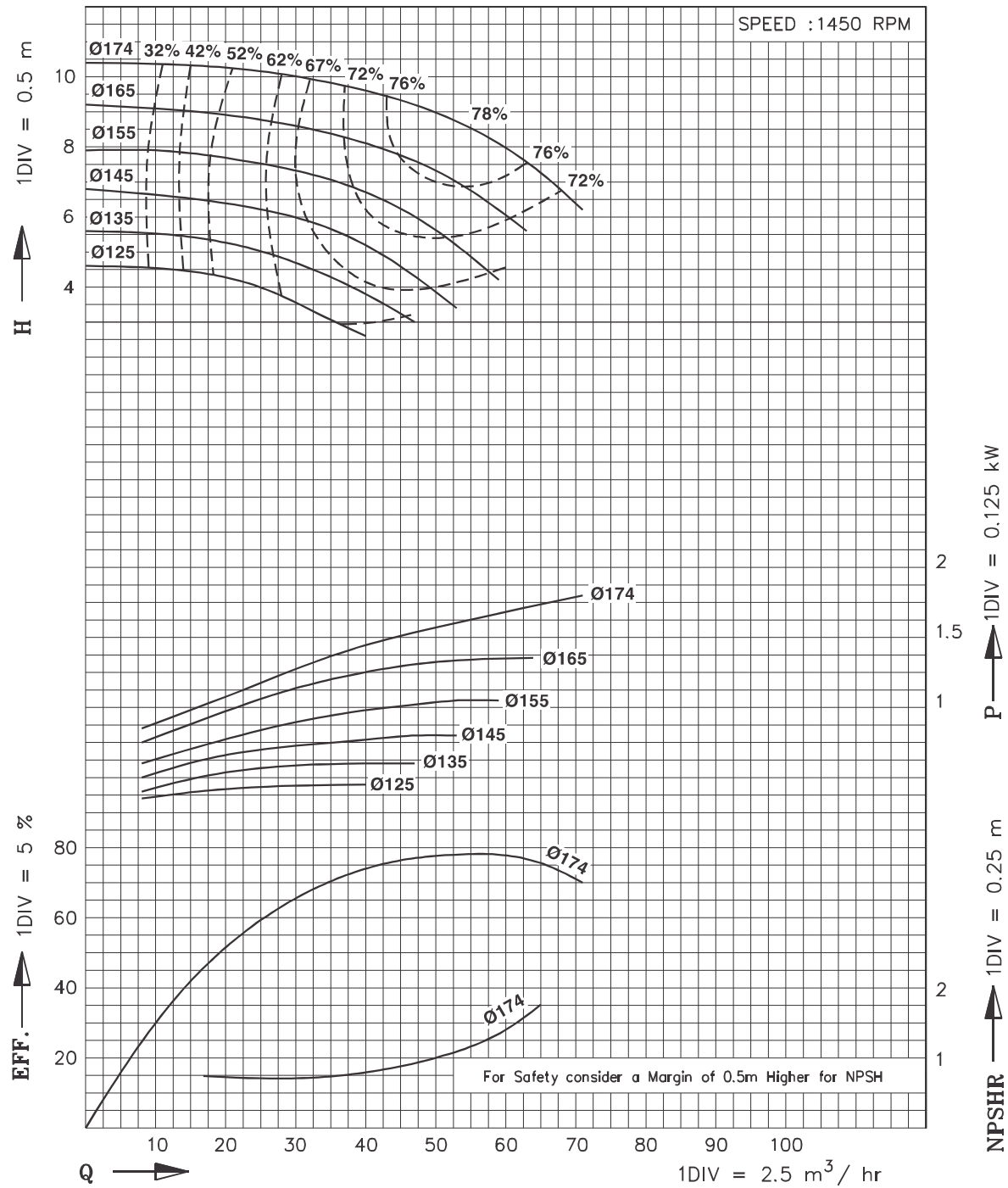


PERFORMANCE CURVE

Model : ECW-65/160

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

SIZE : 80 x 65



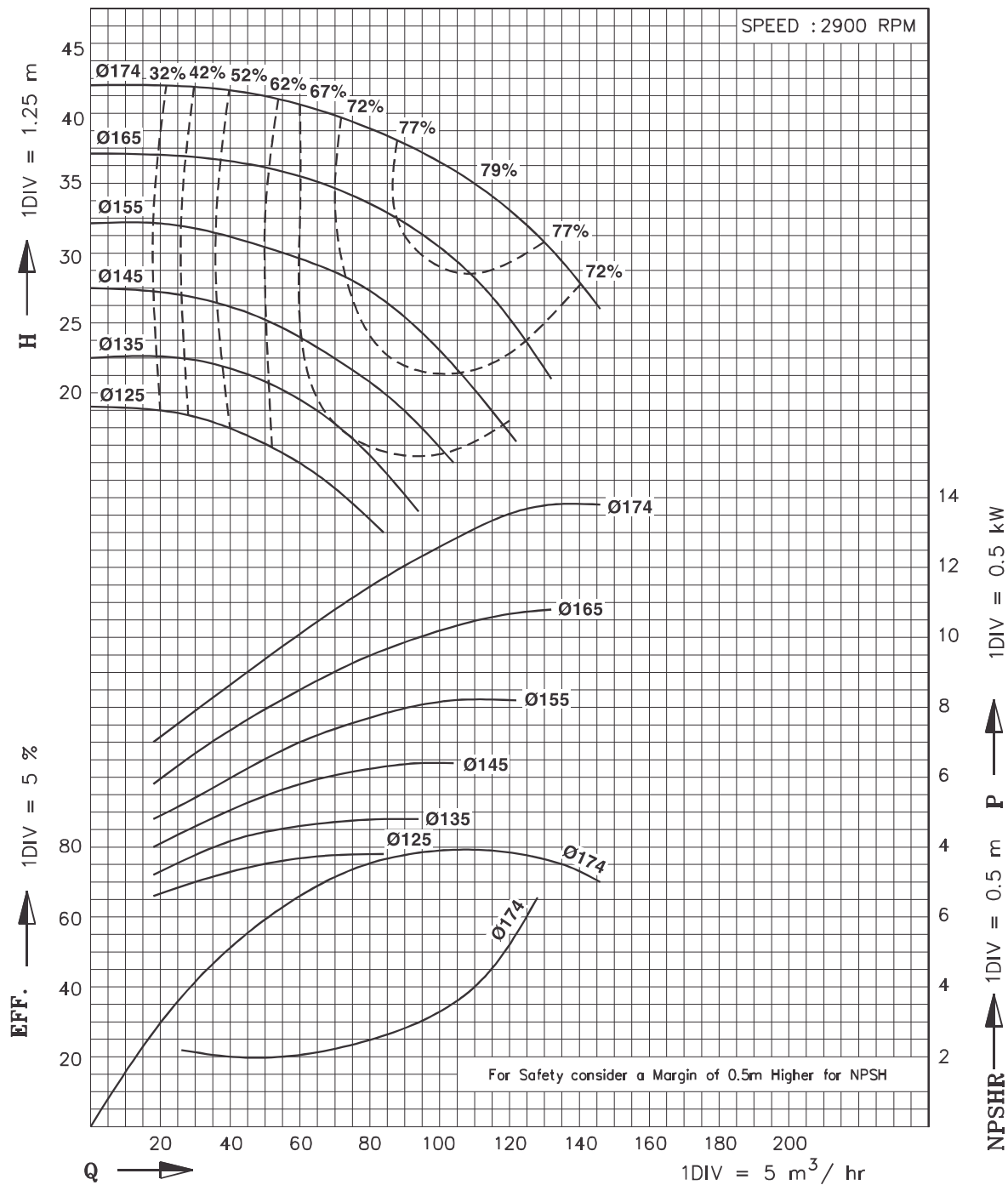


PERFORMANCE CURVE

Model : ECW-65/160

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

SIZE : 80 x 65



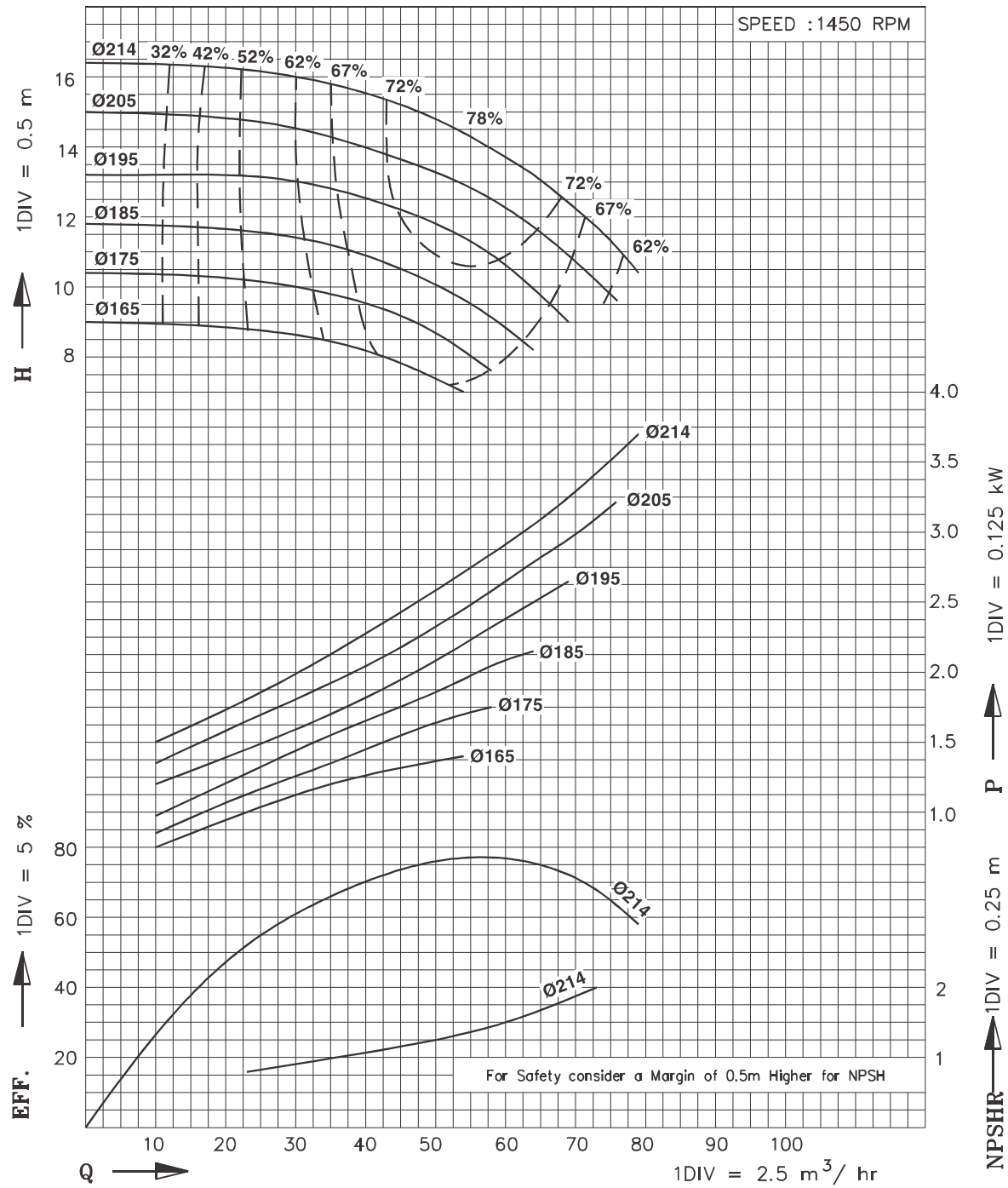


PERFORMANCE CURVE

Model : ECW-65/200

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

SIZE : 80 x 65



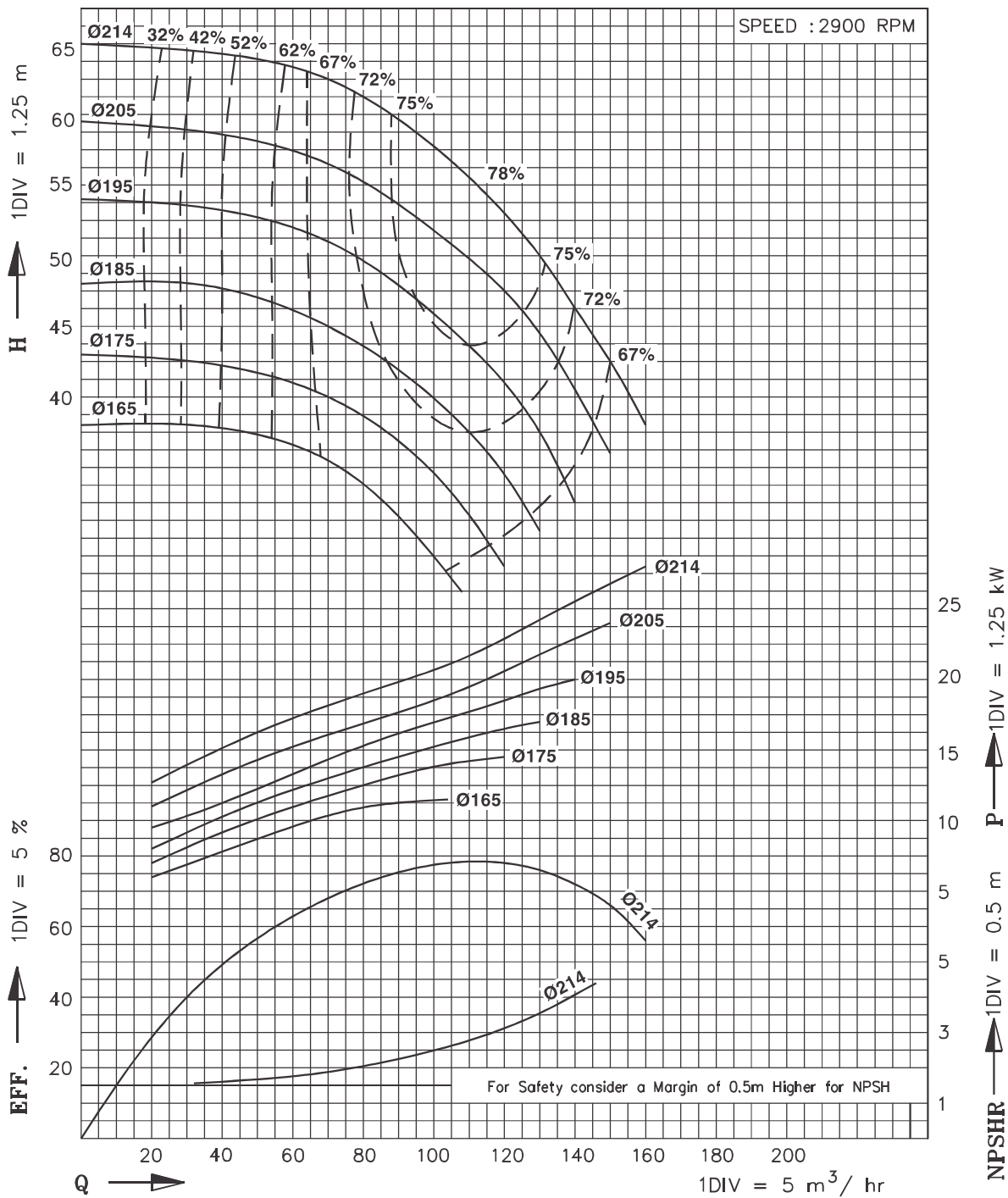


PERFORMANCE CURVE

Model : ECW-65/200

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

SIZE : 80 x 65



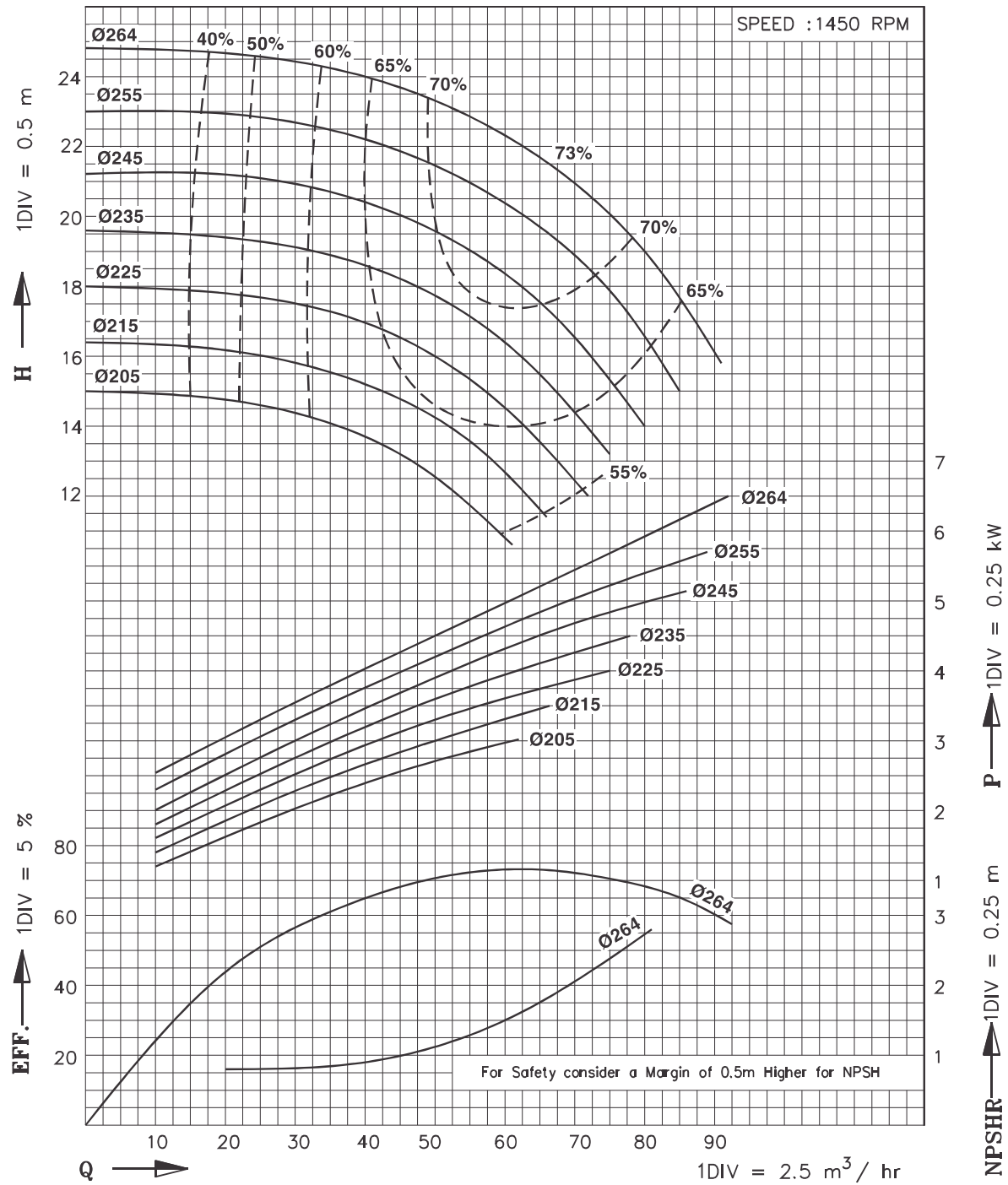


PERFORMANCE CURVE

Model : ECW-65/260

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

SIZE : 100 x 65



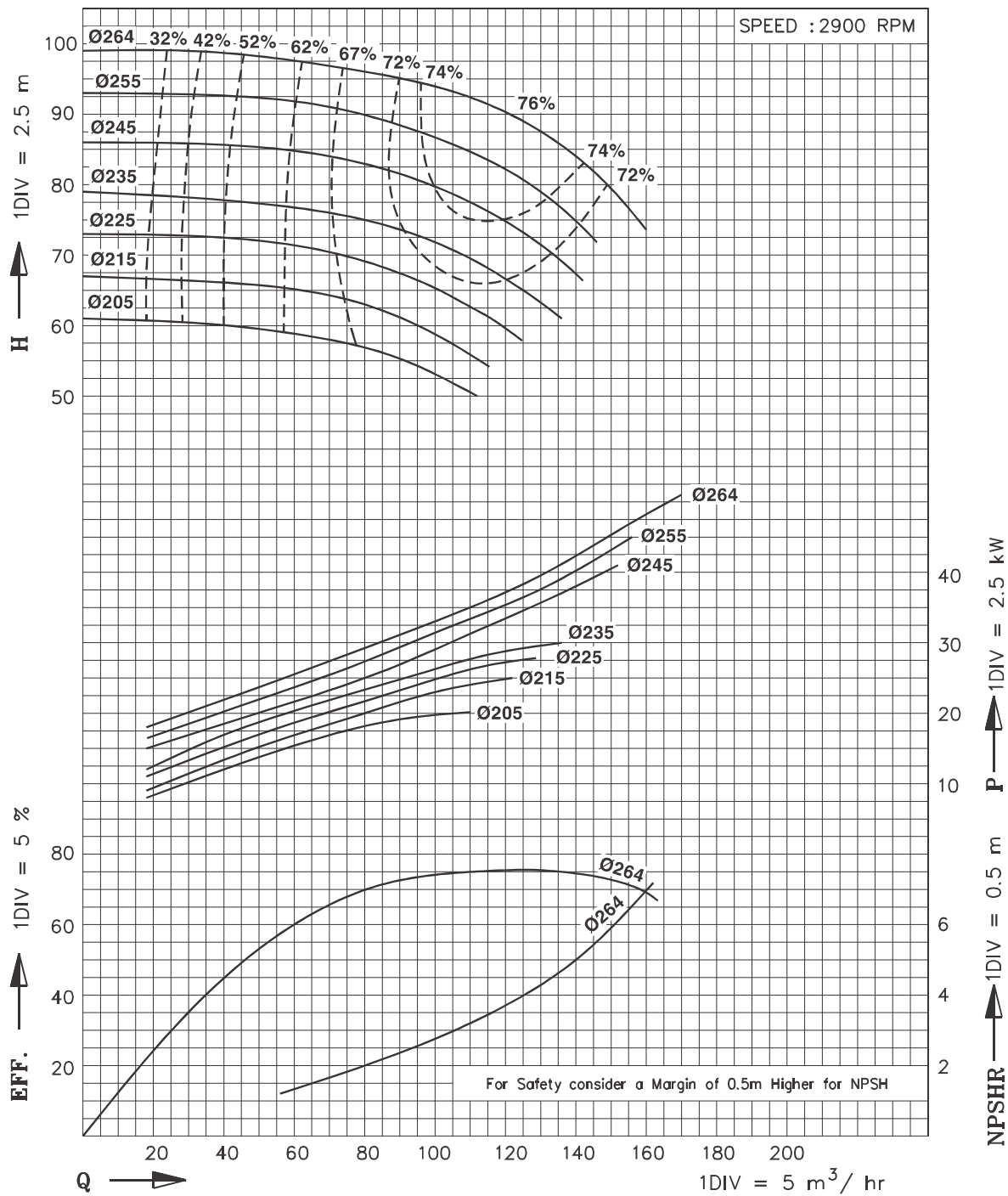


PERFORMANCE CURVE

Model : ECW-65/260

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

SIZE : 100 x 65



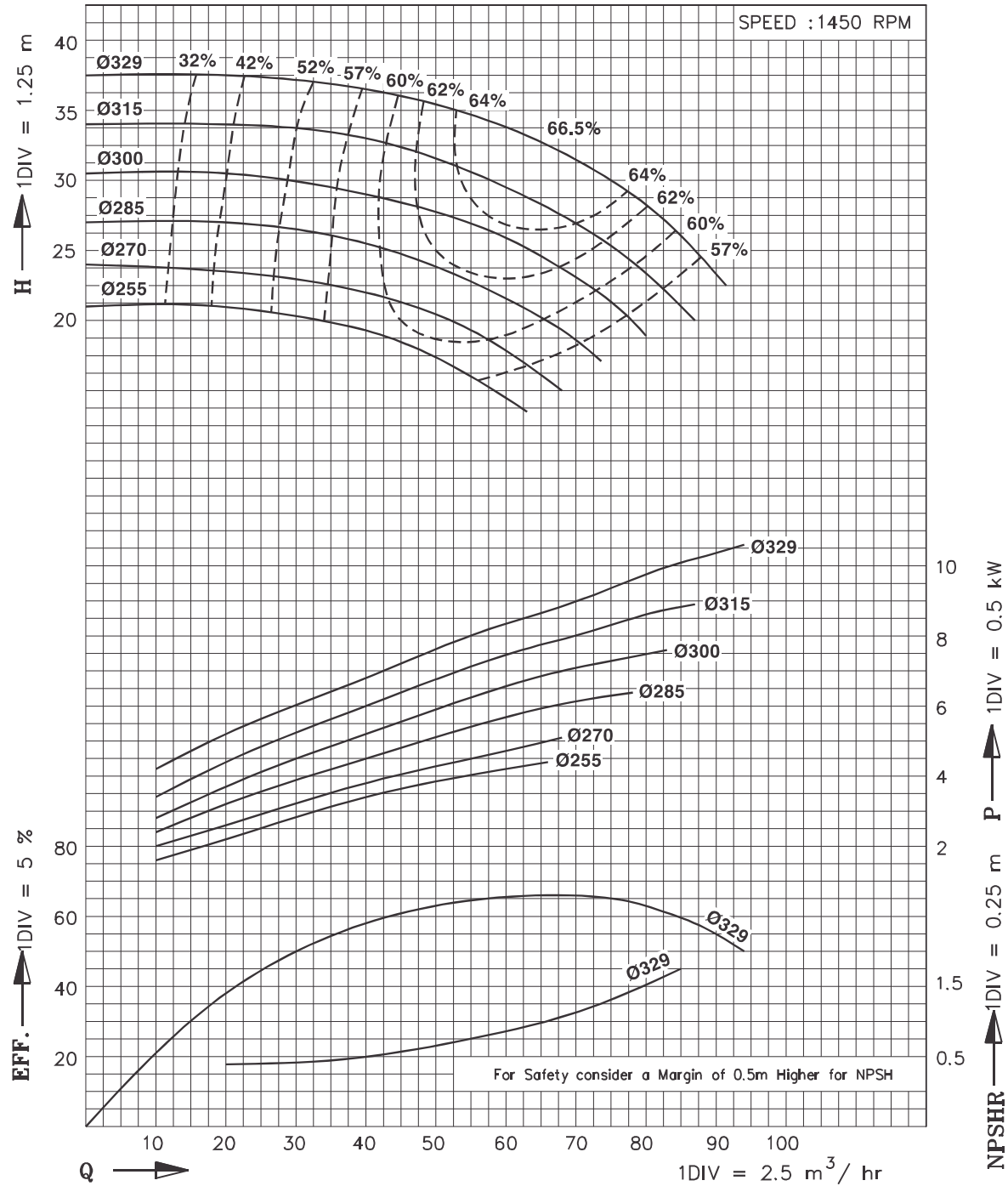


PERFORMANCE CURVE

Model : ECW-65/320

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

SIZE : 80 x 65



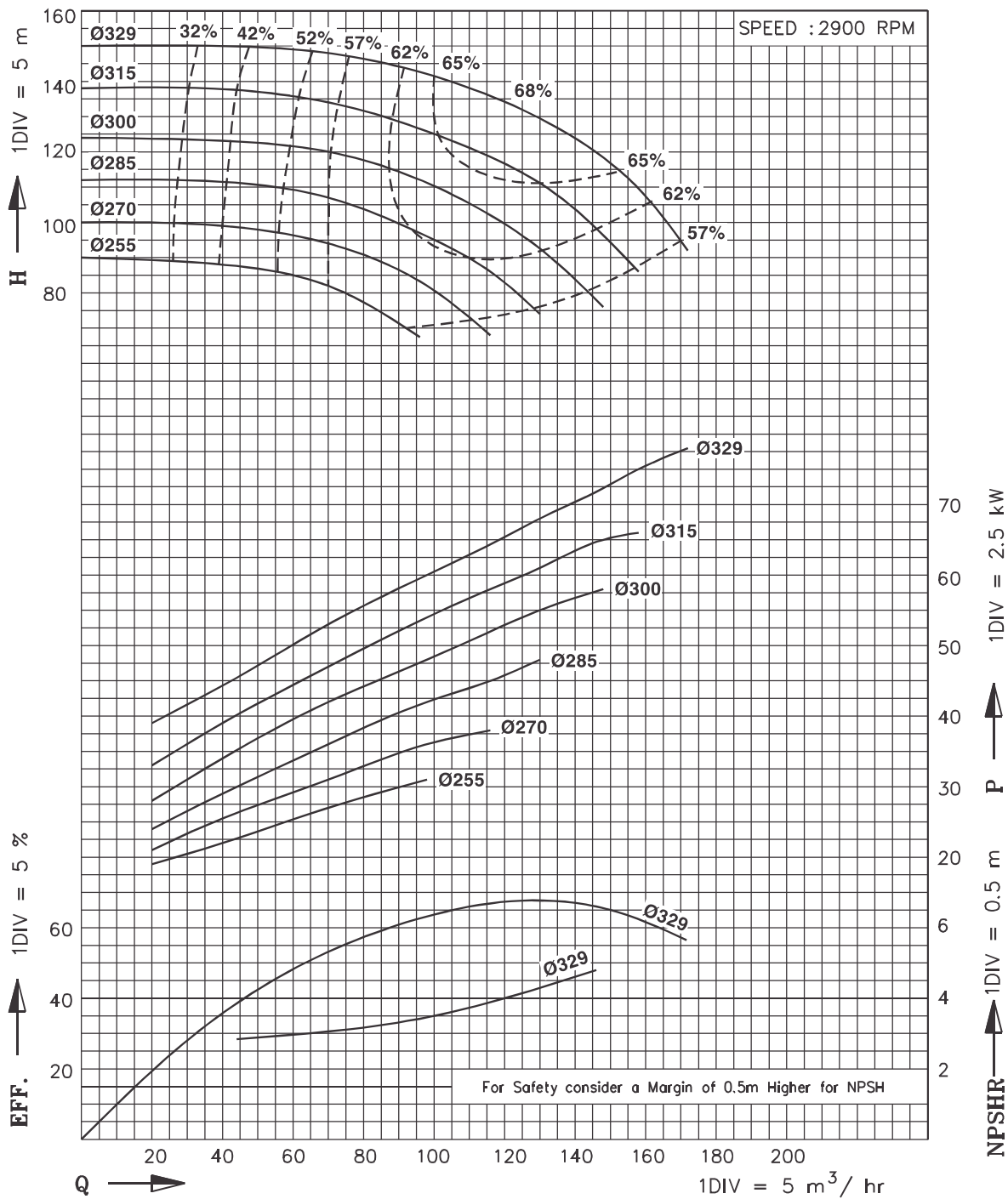


PERFORMANCE CURVE

Model : ECW-65/320-On request

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

SIZE : 80 x 65



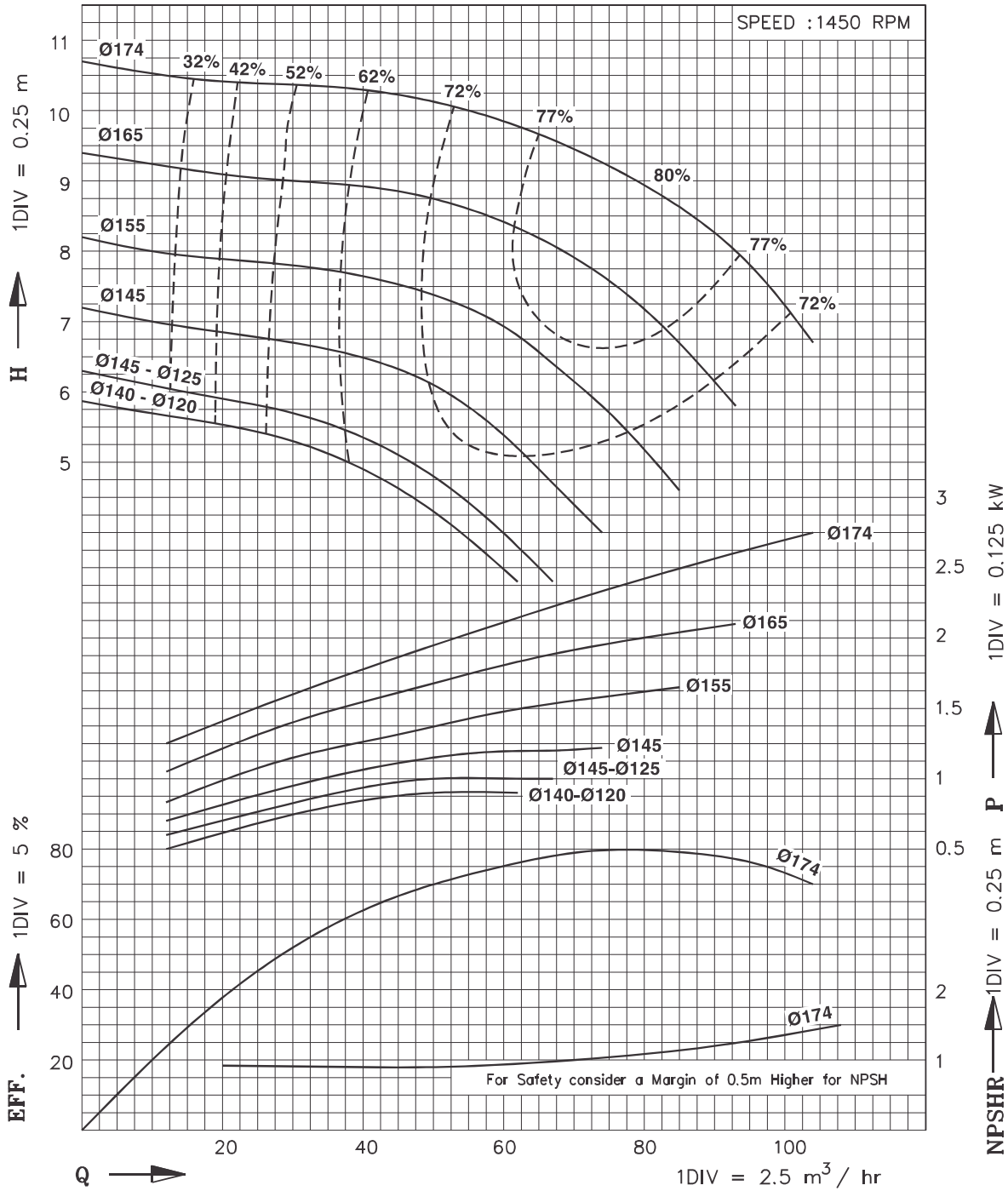


PERFORMANCE CURVE

Model : ECW-80/160

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

SIZE : 100 x 80



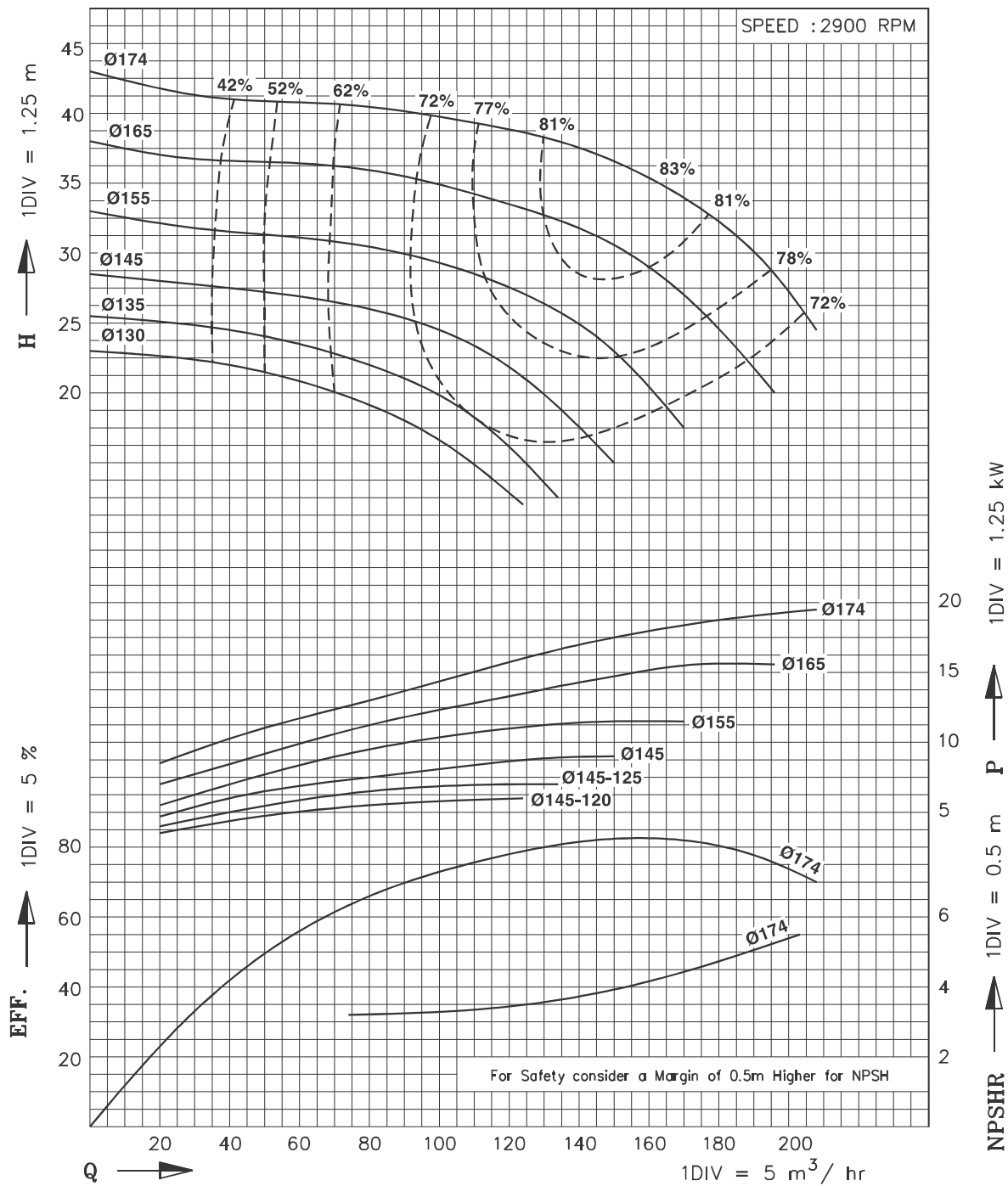


PERFORMANCE CURVE

Model : ECW-80/160

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

SIZE : 100 x 80



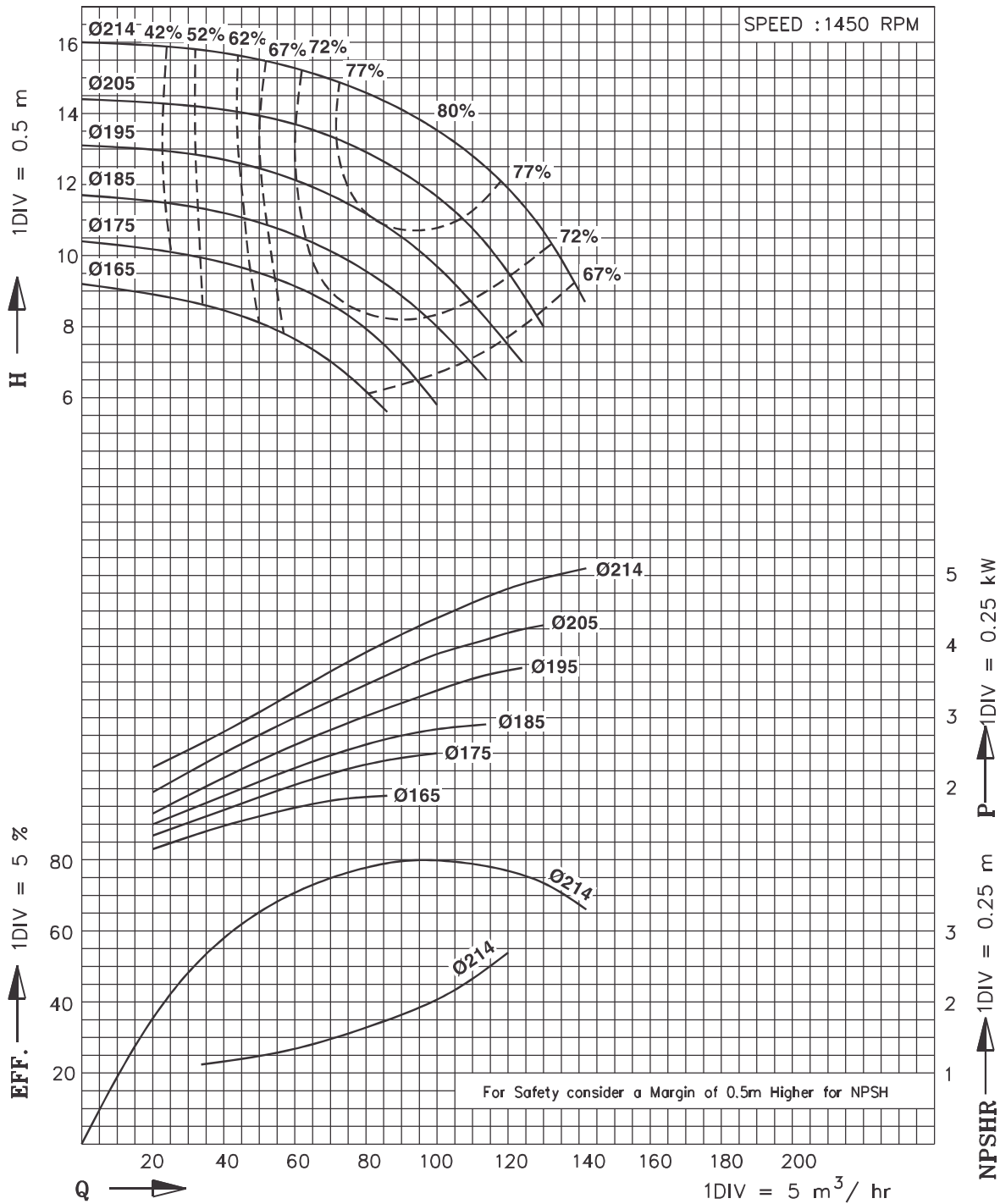


PERFORMANCE CURVE

Model : ECW-80/200

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

SIZE : 100 x 80



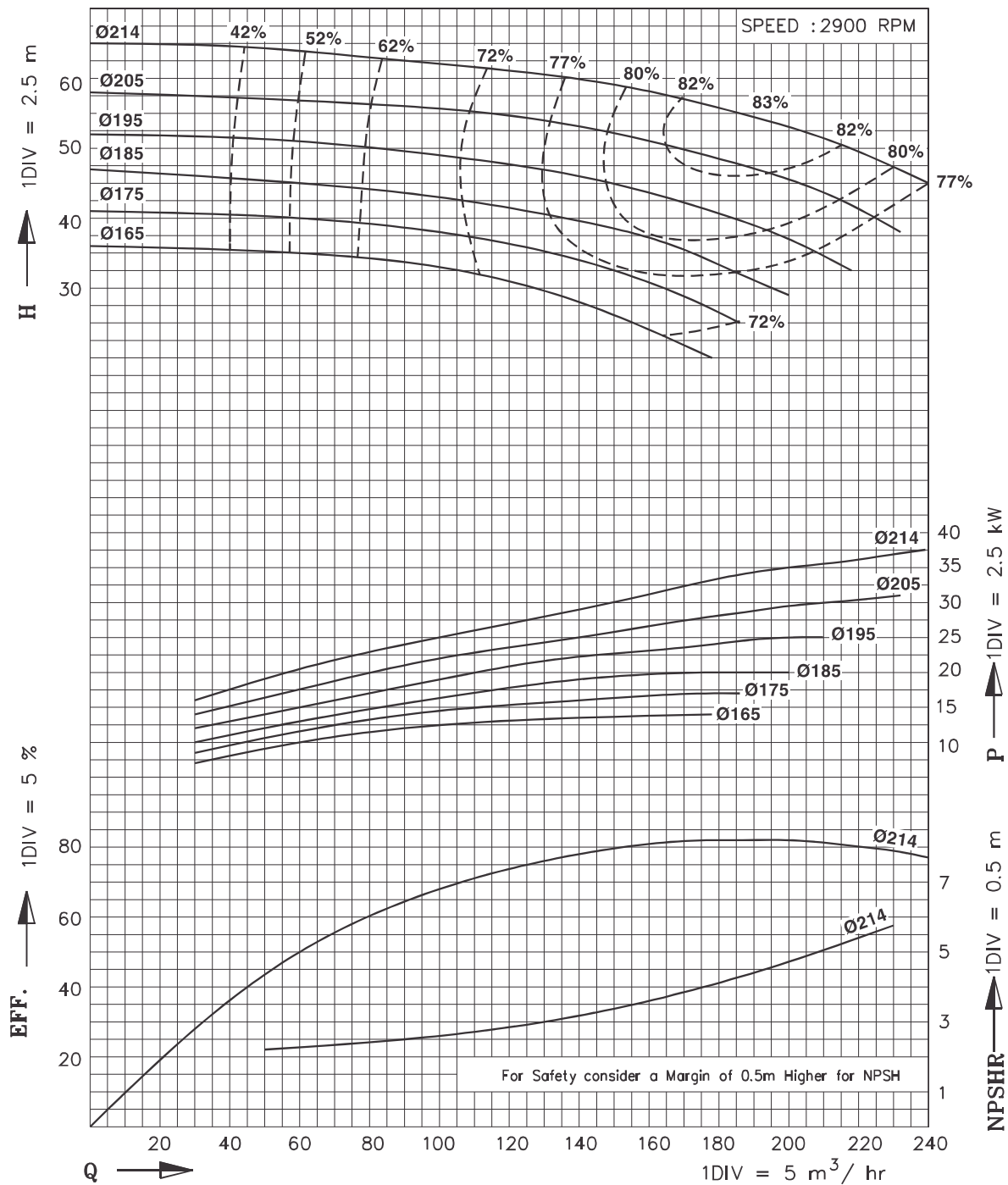


PERFORMANCE CURVE

Model : ECW-80/200

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

SIZE : 100 x 80



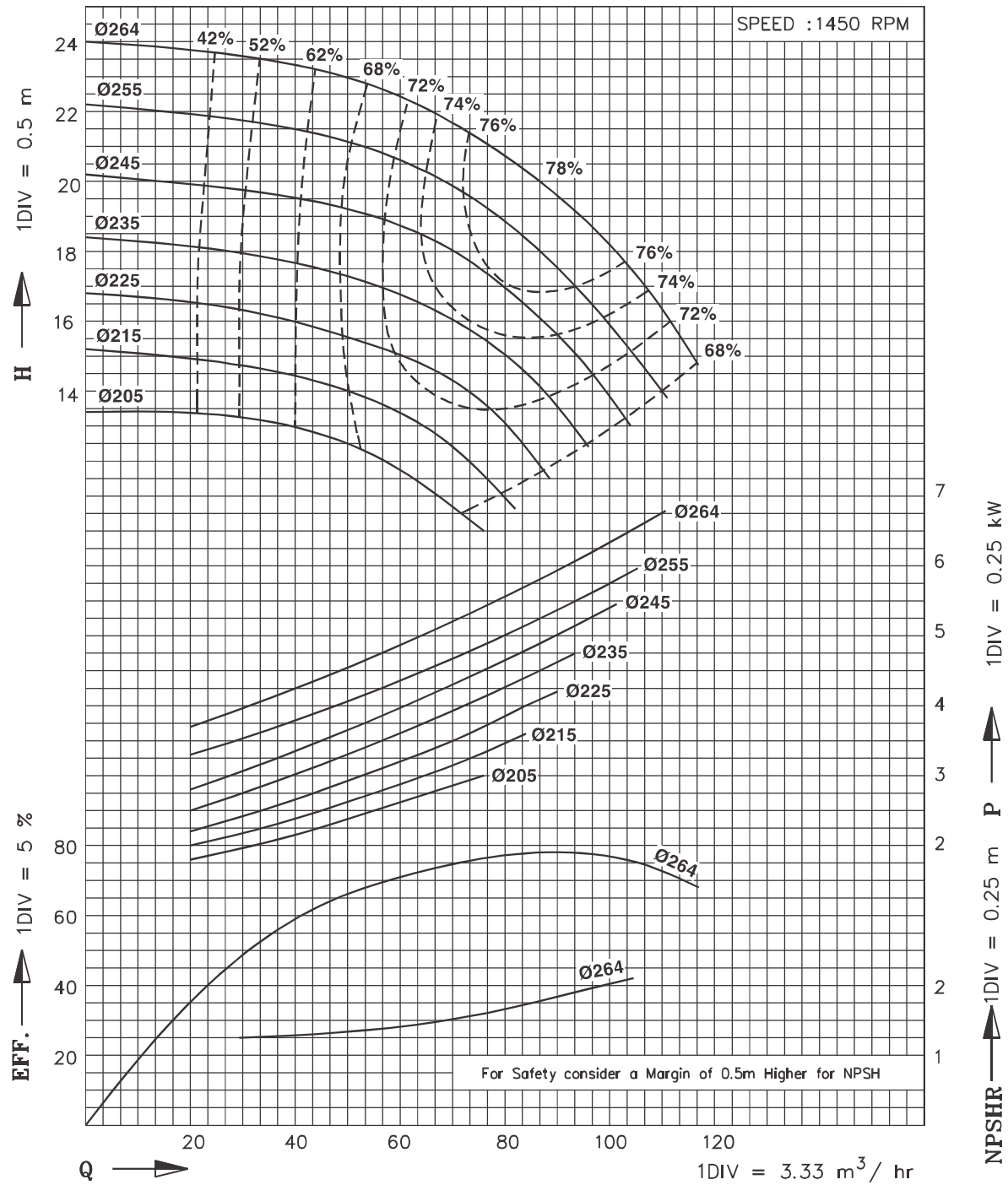


PERFORMANCE CURVE

Model : ECW-80/260

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

SIZE : 100 x 80



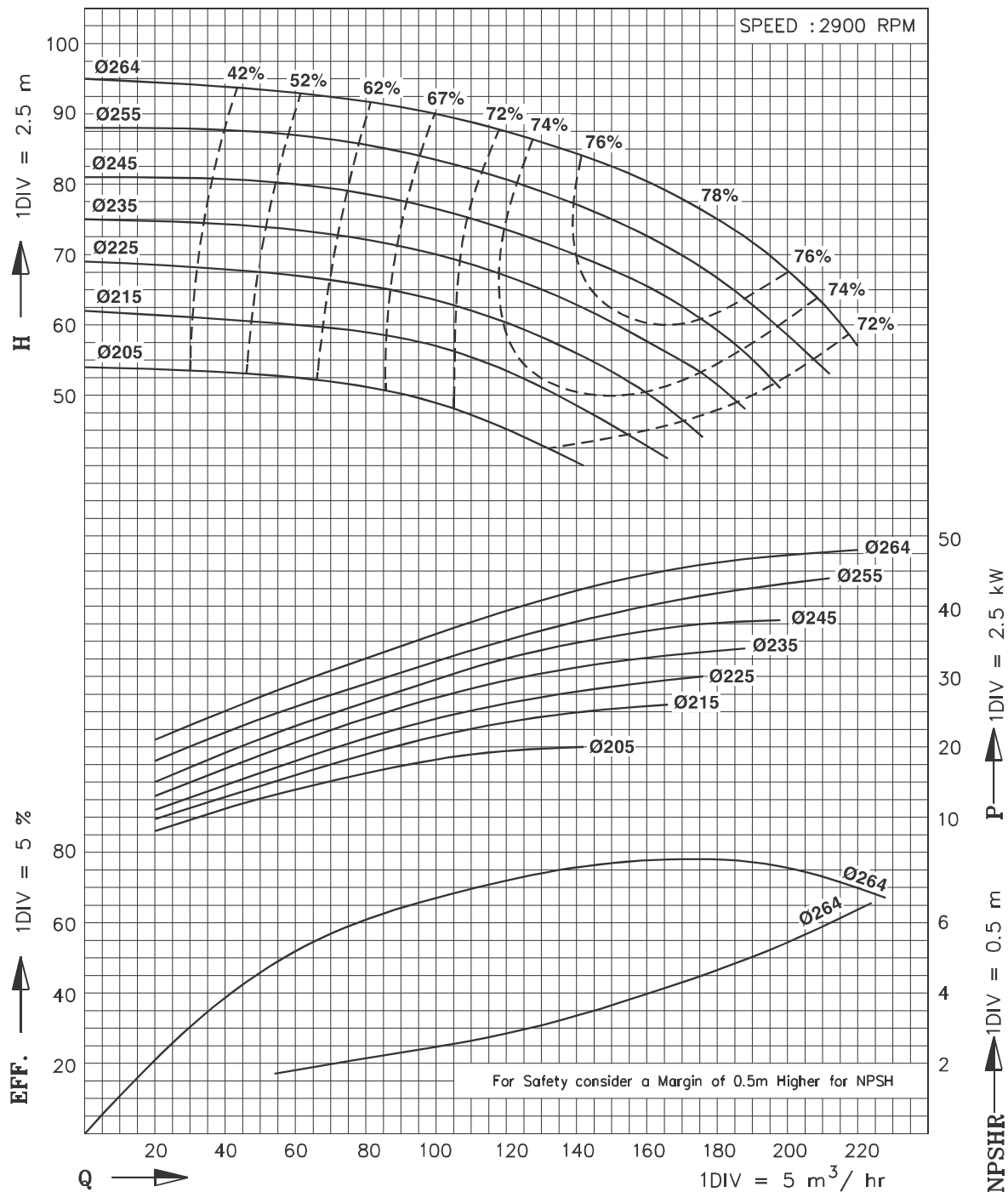


PERFORMANCE CURVE

Model : ECW-80/260

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

SIZE : 100 x 80



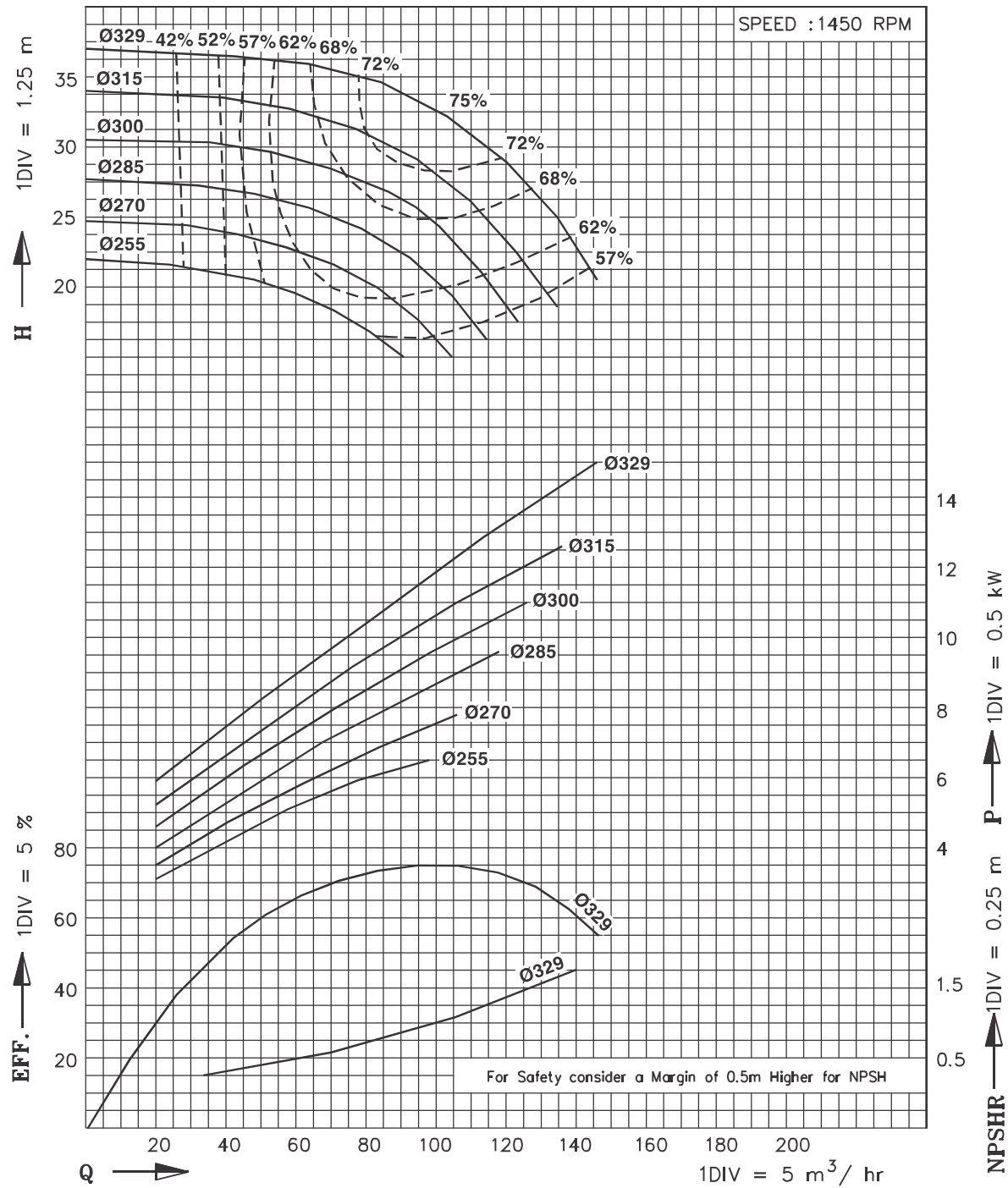


PERFORMANCE CURVE

Model : ECW-80/320

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

SIZE : 100 x 80



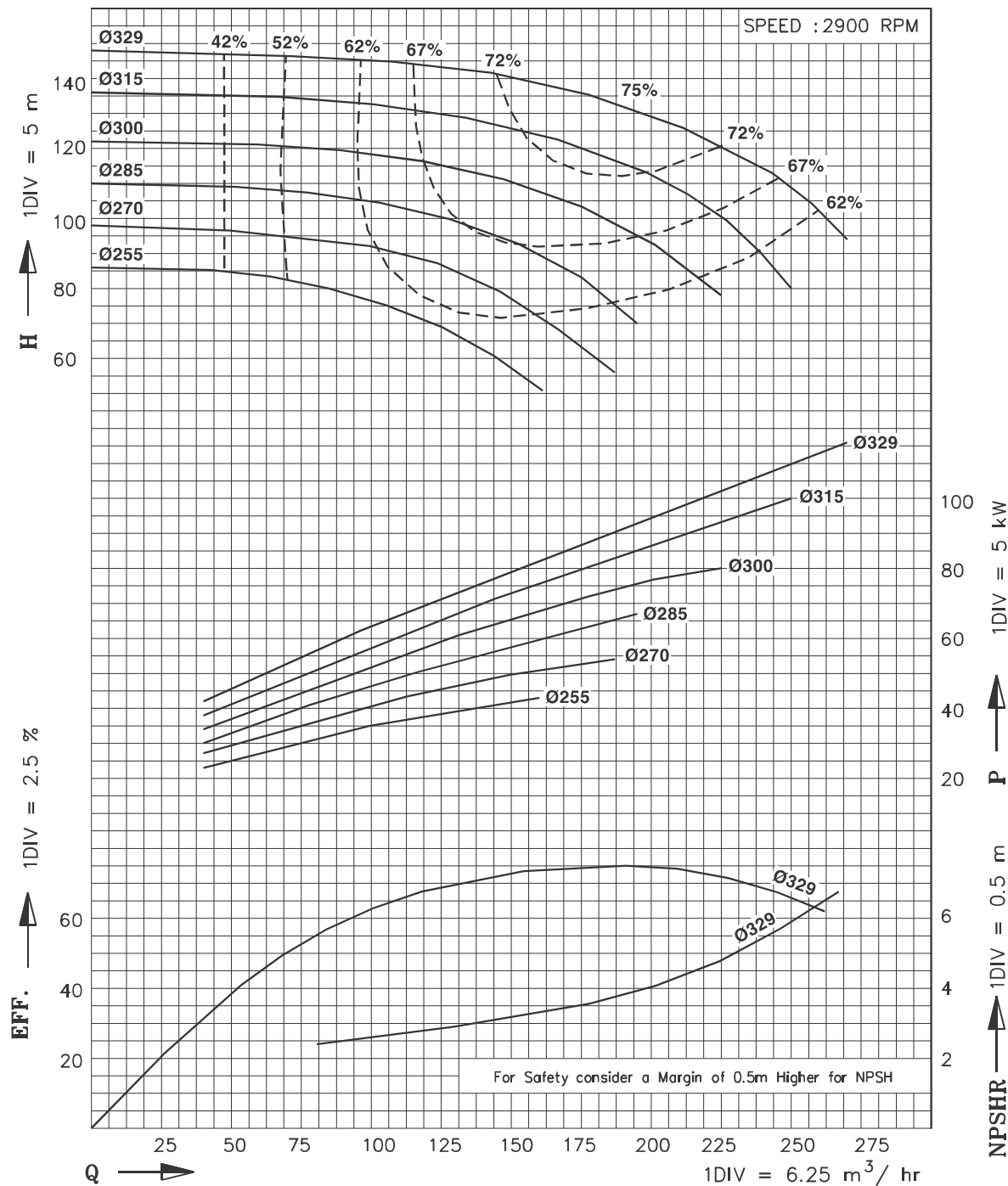


PERFORMANCE CURVE

Model : ECW-80/320-On request

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

SIZE : 100 x 80



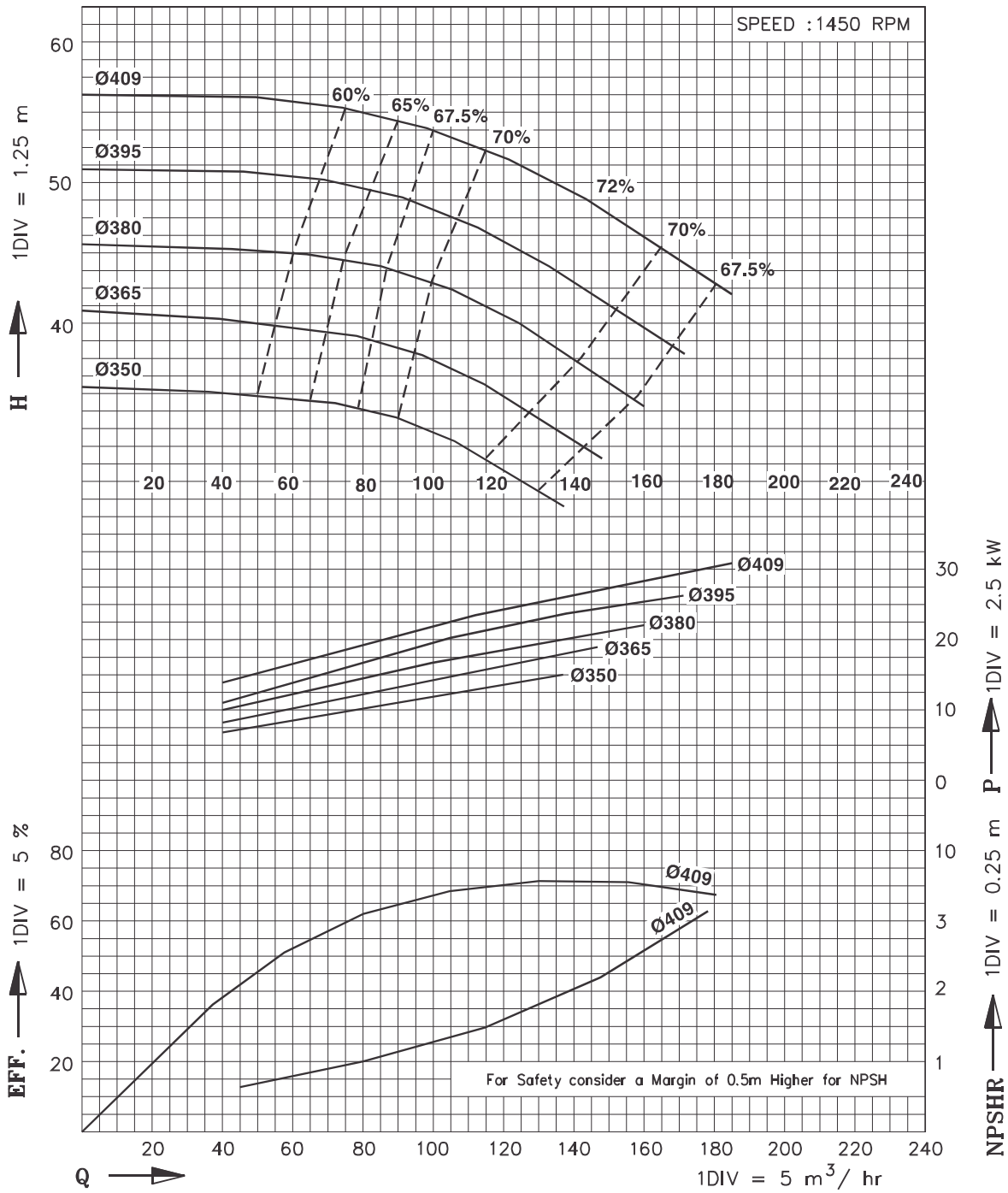


PERFORMANCE CURVE

Model : ECW-80/400

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

SIZE : 125 x 80



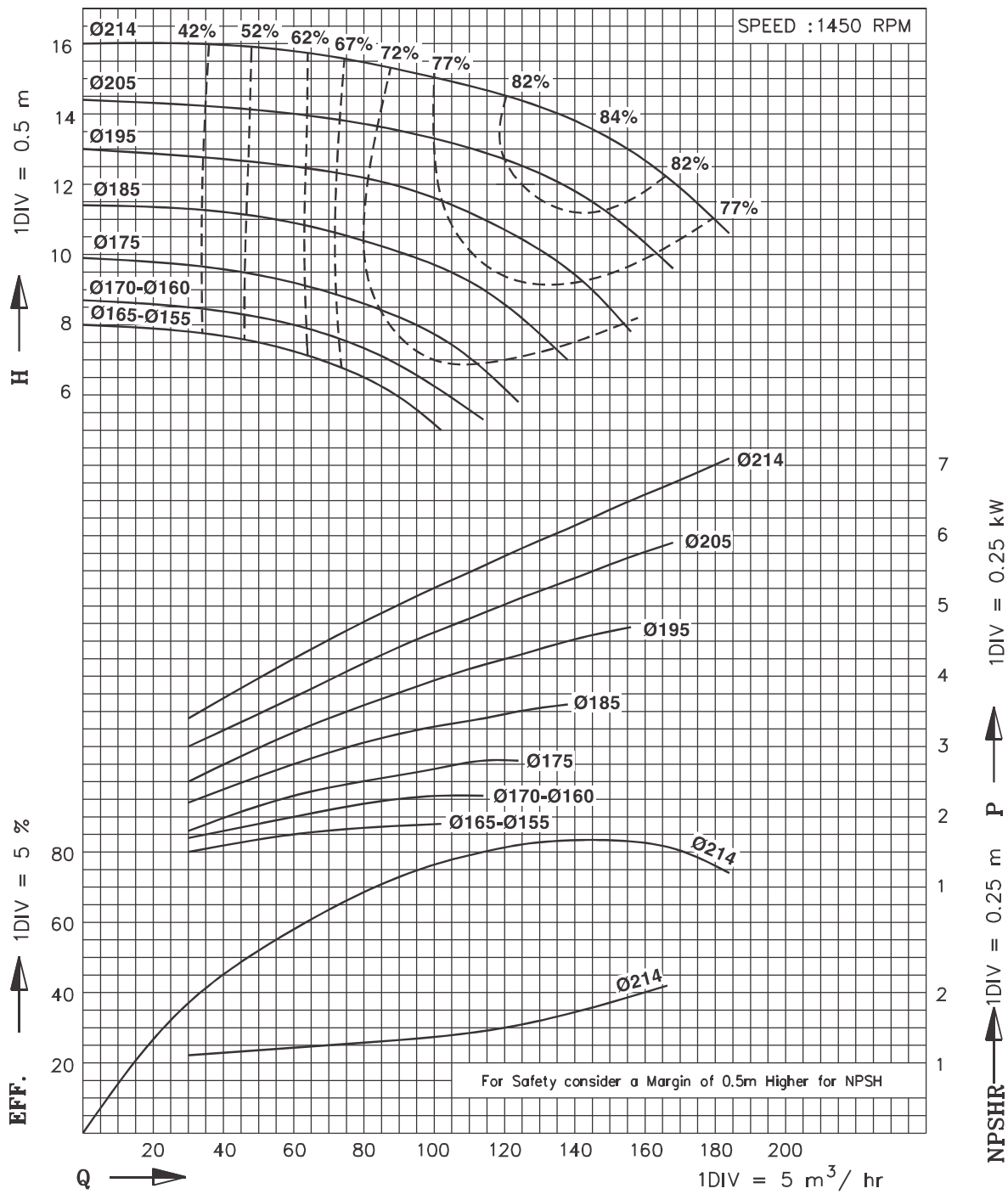


PERFORMANCE CURVE

Model : ECW-100/200

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

SIZE : 125 x 100



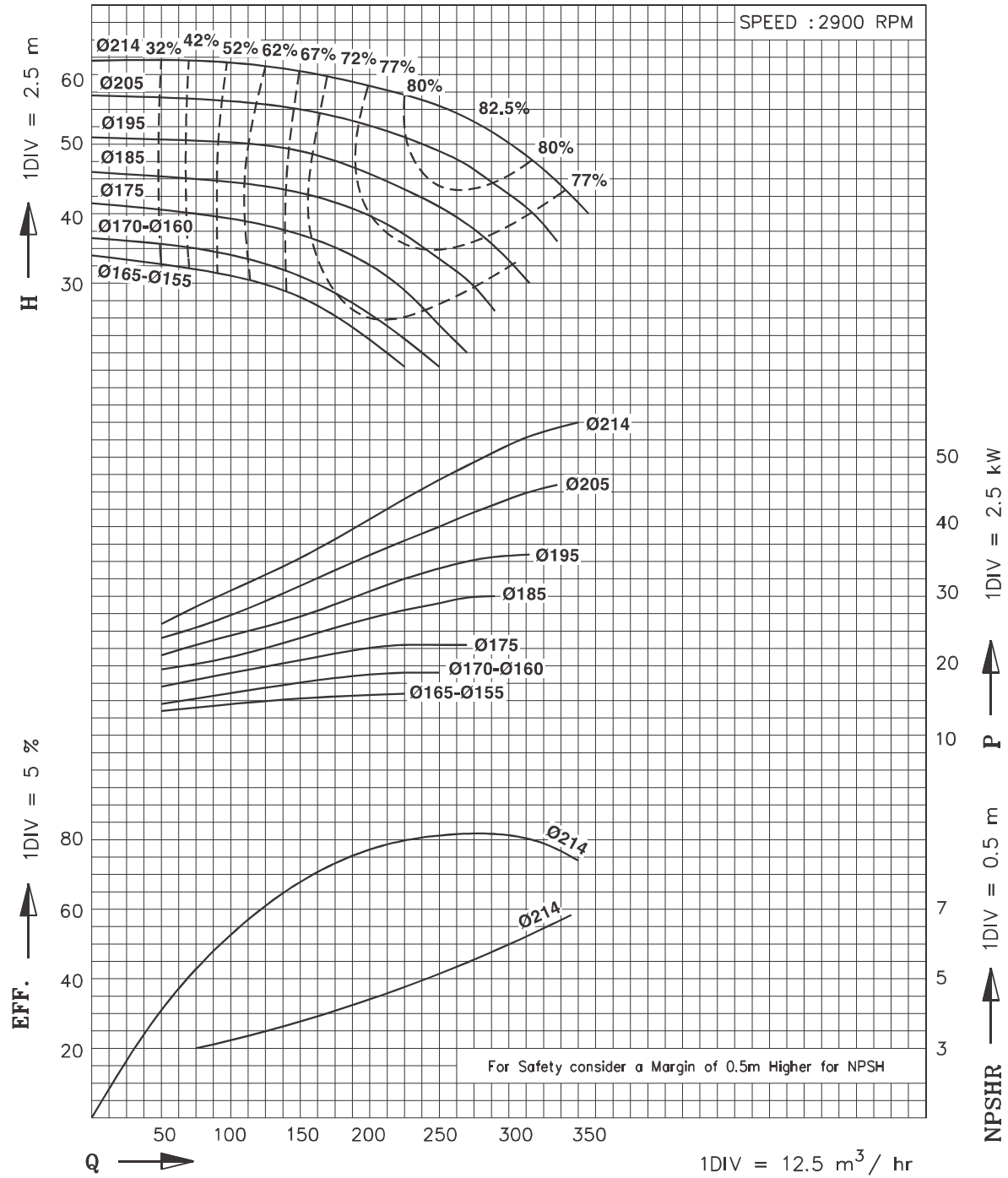


PERFORMANCE CURVE

Model : ECW-100/200

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

SIZE : 125 x 100



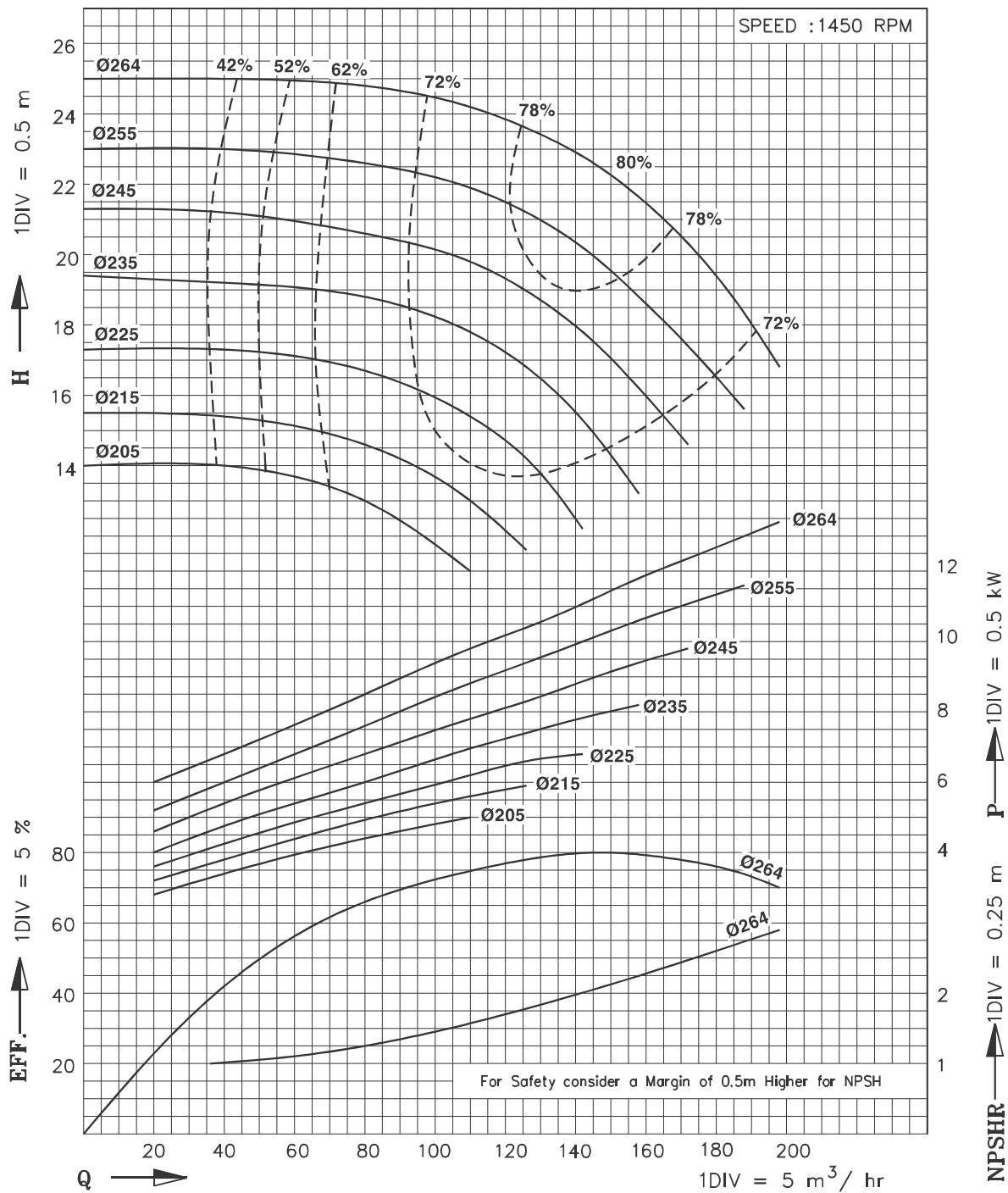


PERFORMANCE CURVE

Model : ECW-100/260

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

SIZE : 125 x 100



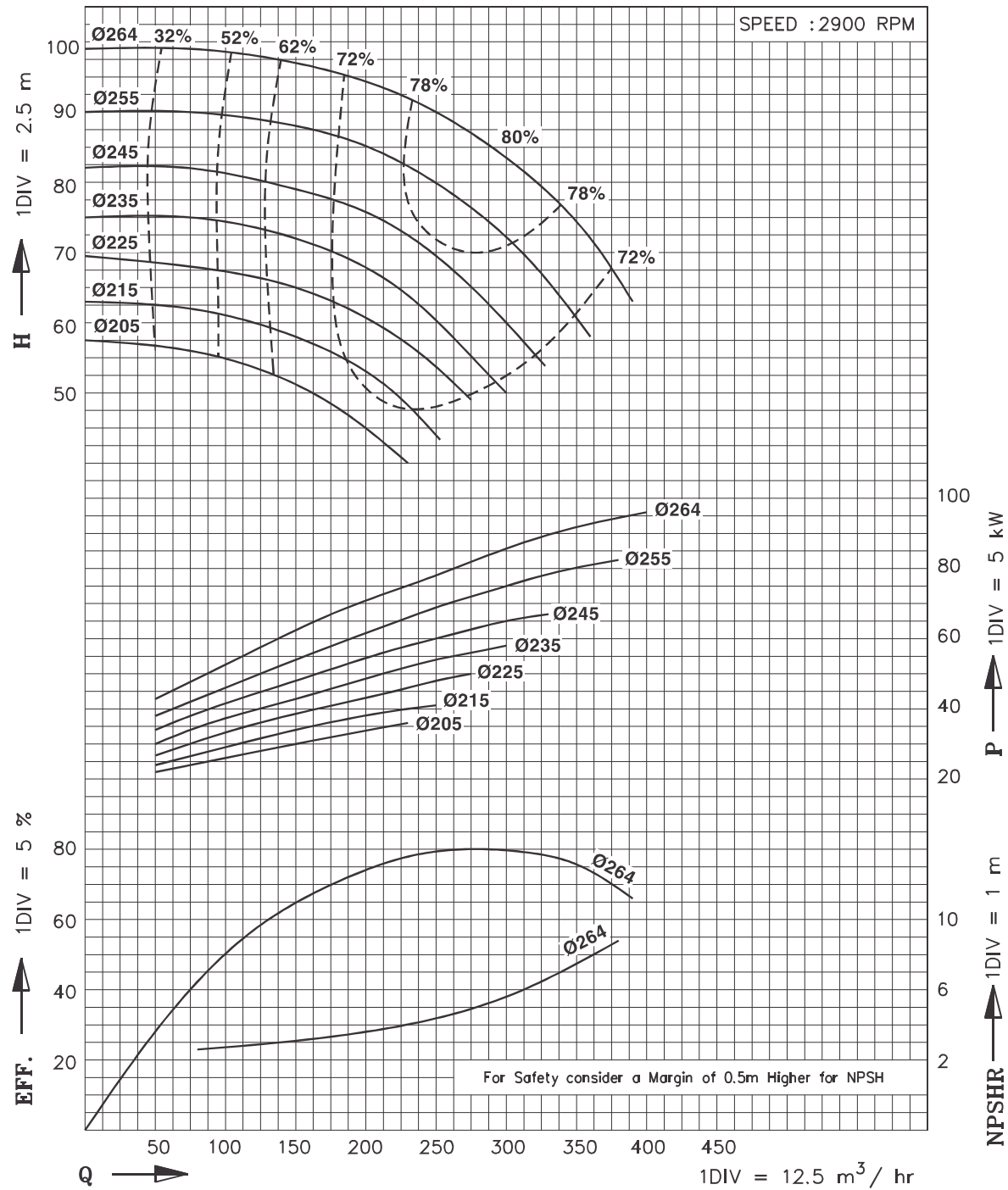


PERFORMANCE CURVE

Model : ECW-100/260

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

SIZE : 125 x 100



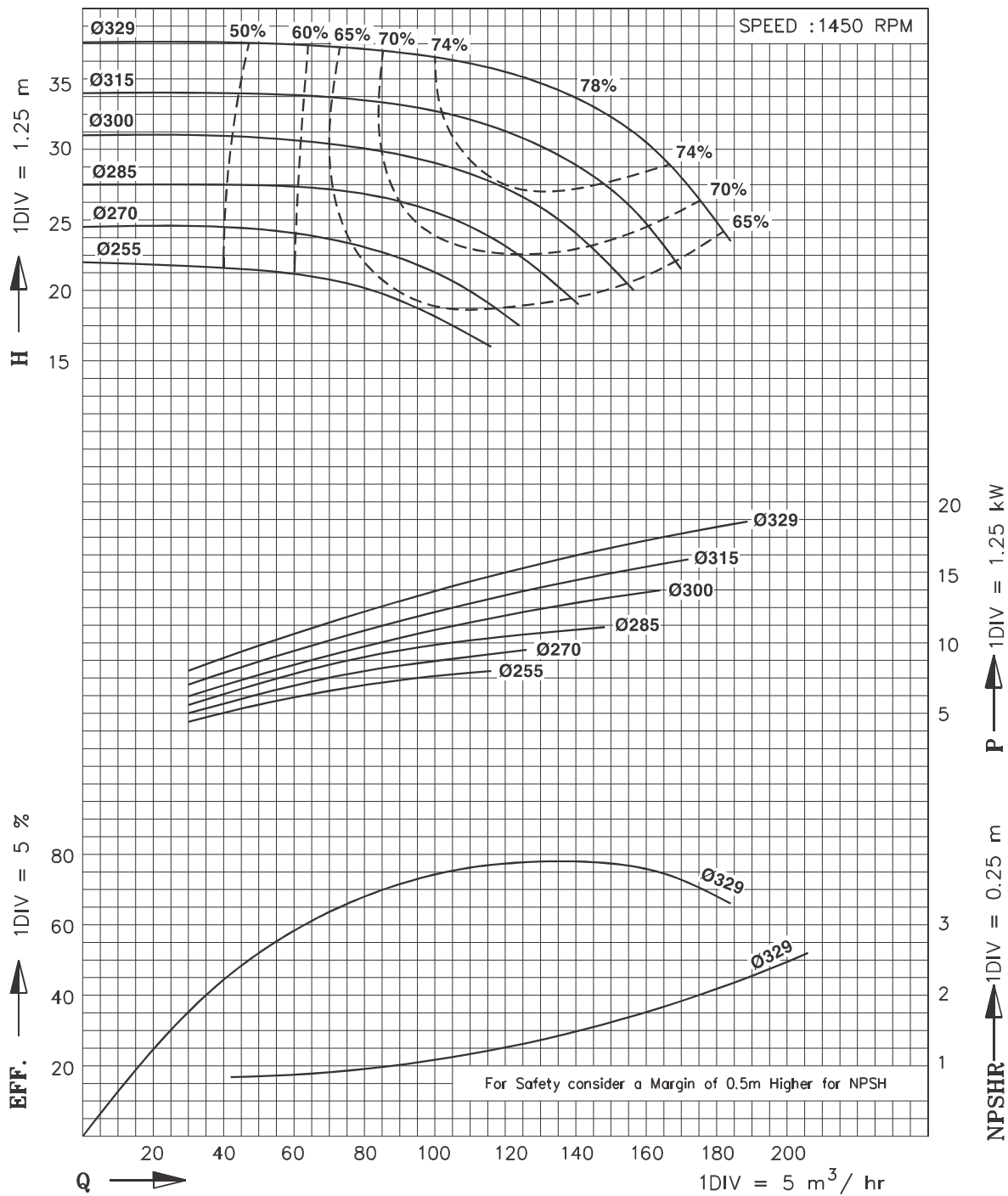


PERFORMANCE CURVE

Model : ECW-100/320

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

SIZE : 125 x 100



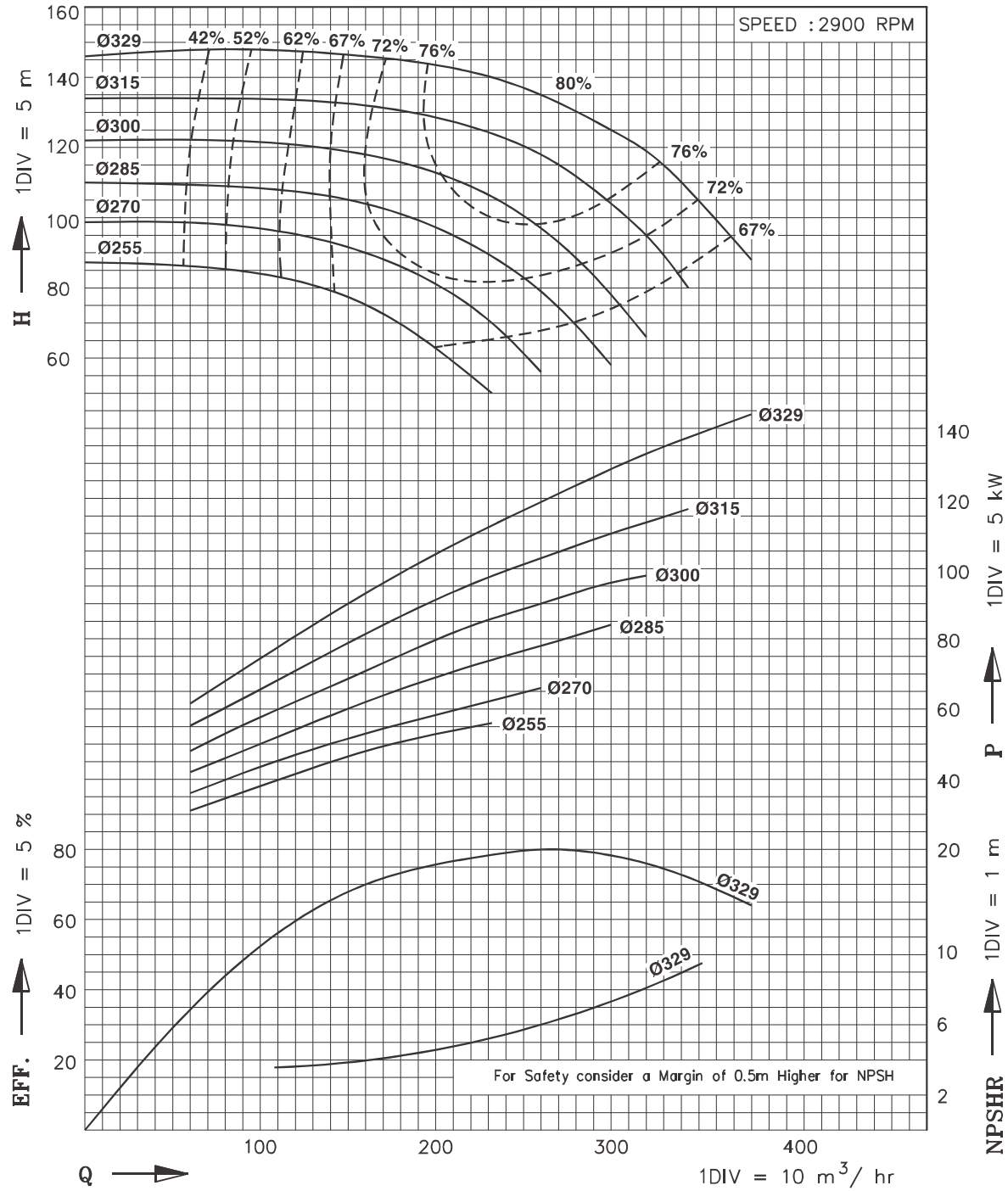


PERFORMANCE CURVE

Model : ECW-100/320-On request

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

SIZE : 125 x 100



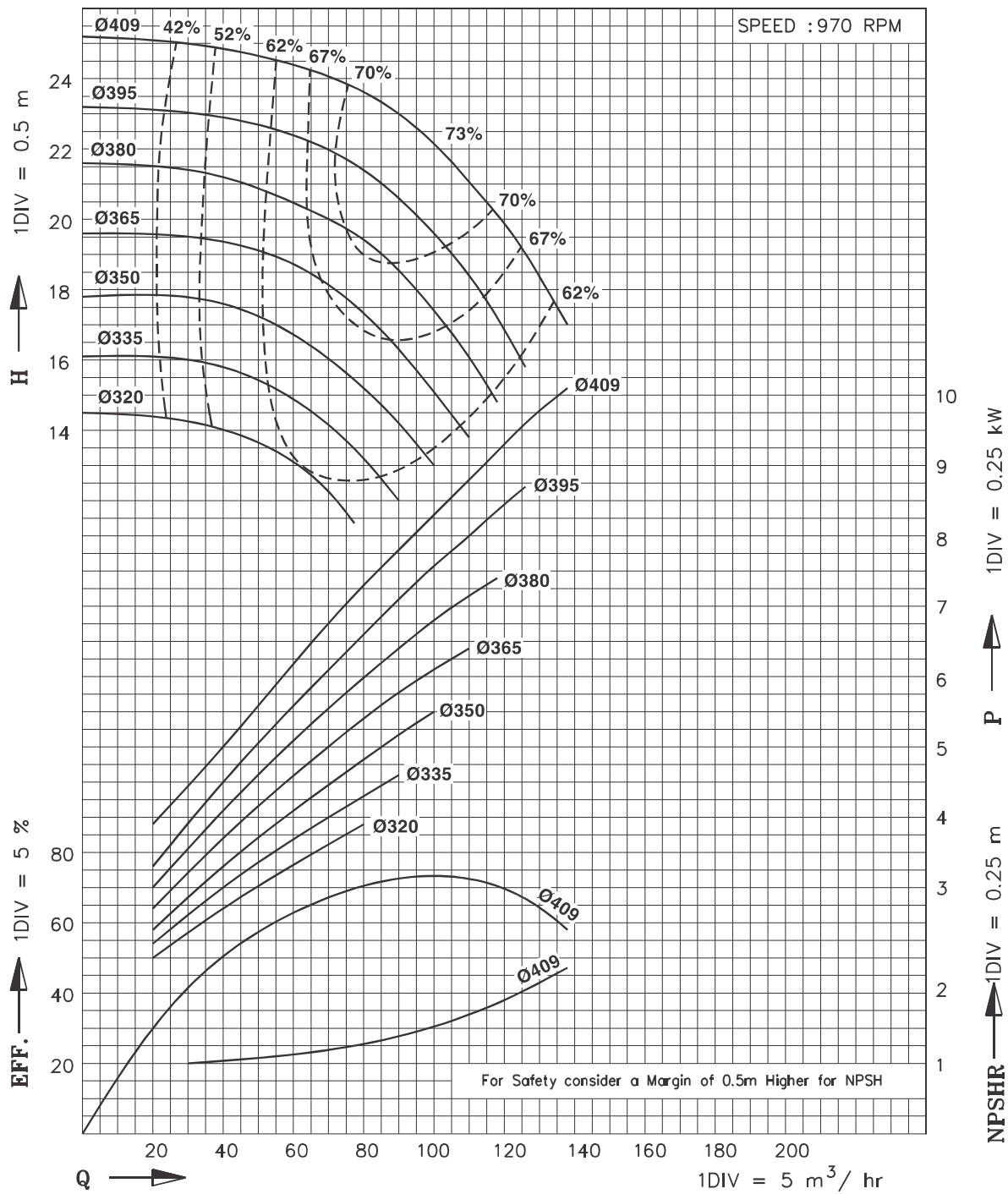


PERFORMANCE CURVE

Model : ECW-100/400

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

SIZE : 125 x 100



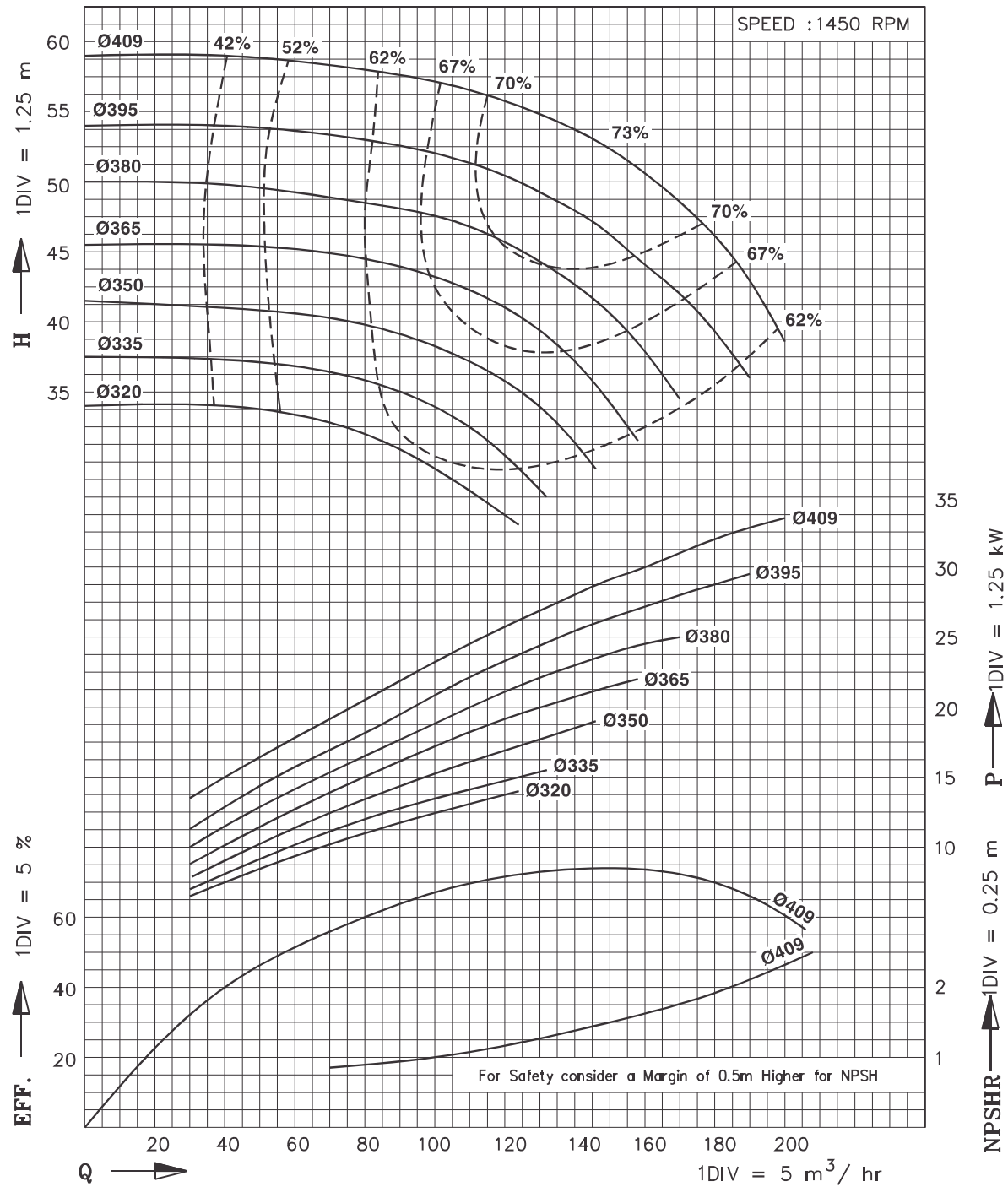


PERFORMANCE CURVE

Model : ECW-100/400

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

SIZE : 125 x 100



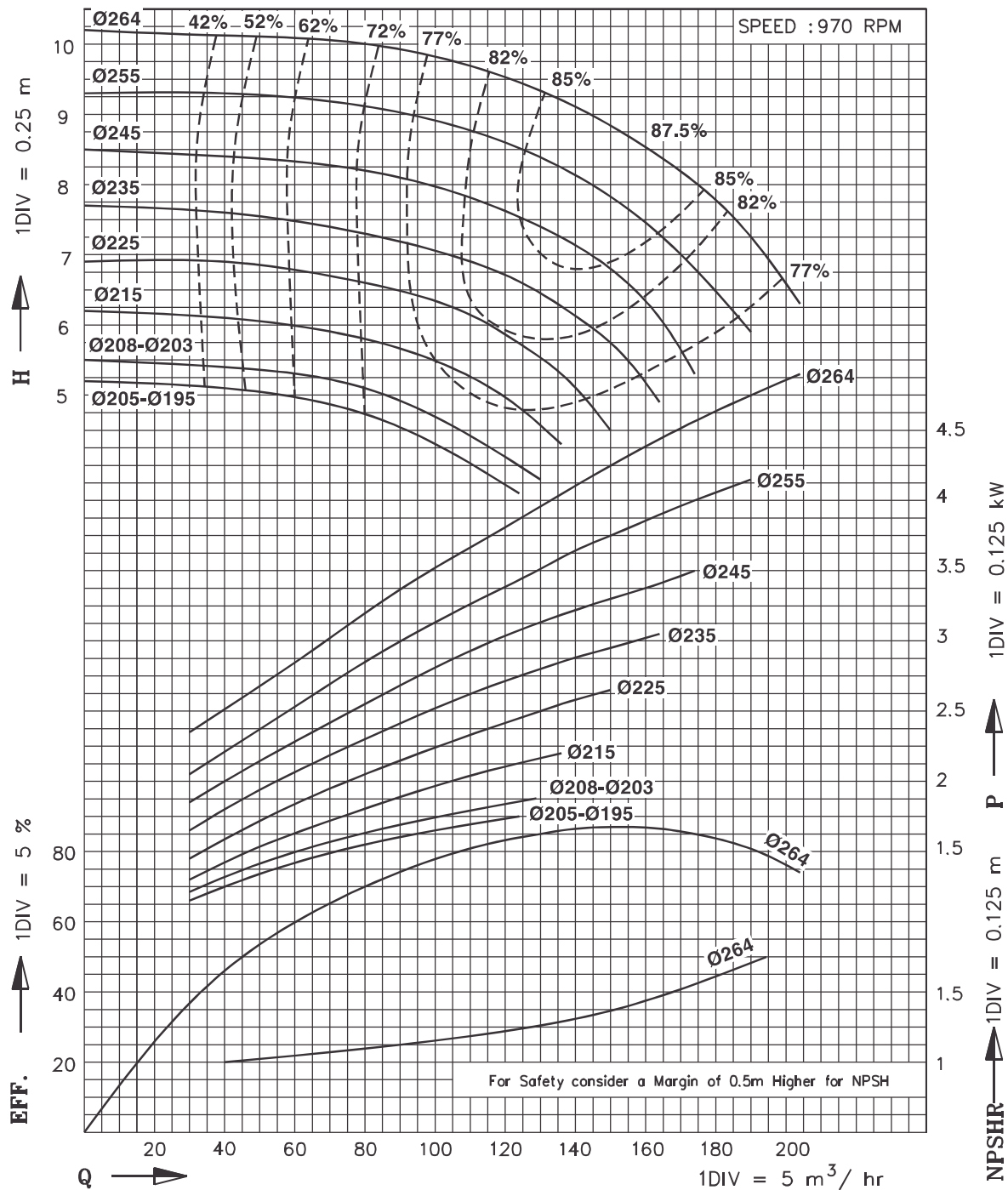


PERFORMANCE CURVE

Model : ECW-125/260

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

SIZE : 150 x 125



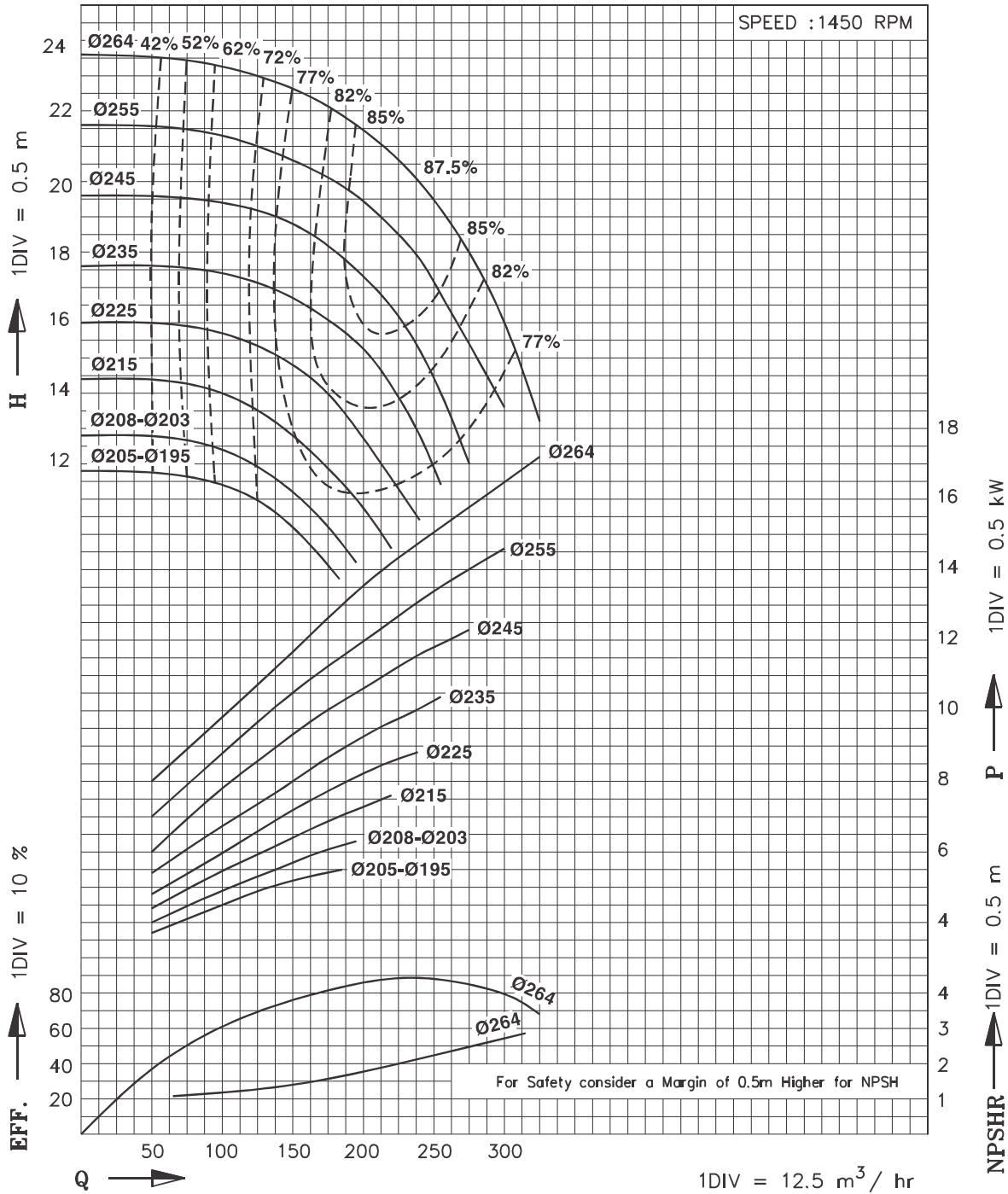


PERFORMANCE CURVE

Model : ECW-125/260

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

SIZE : 150 x 125



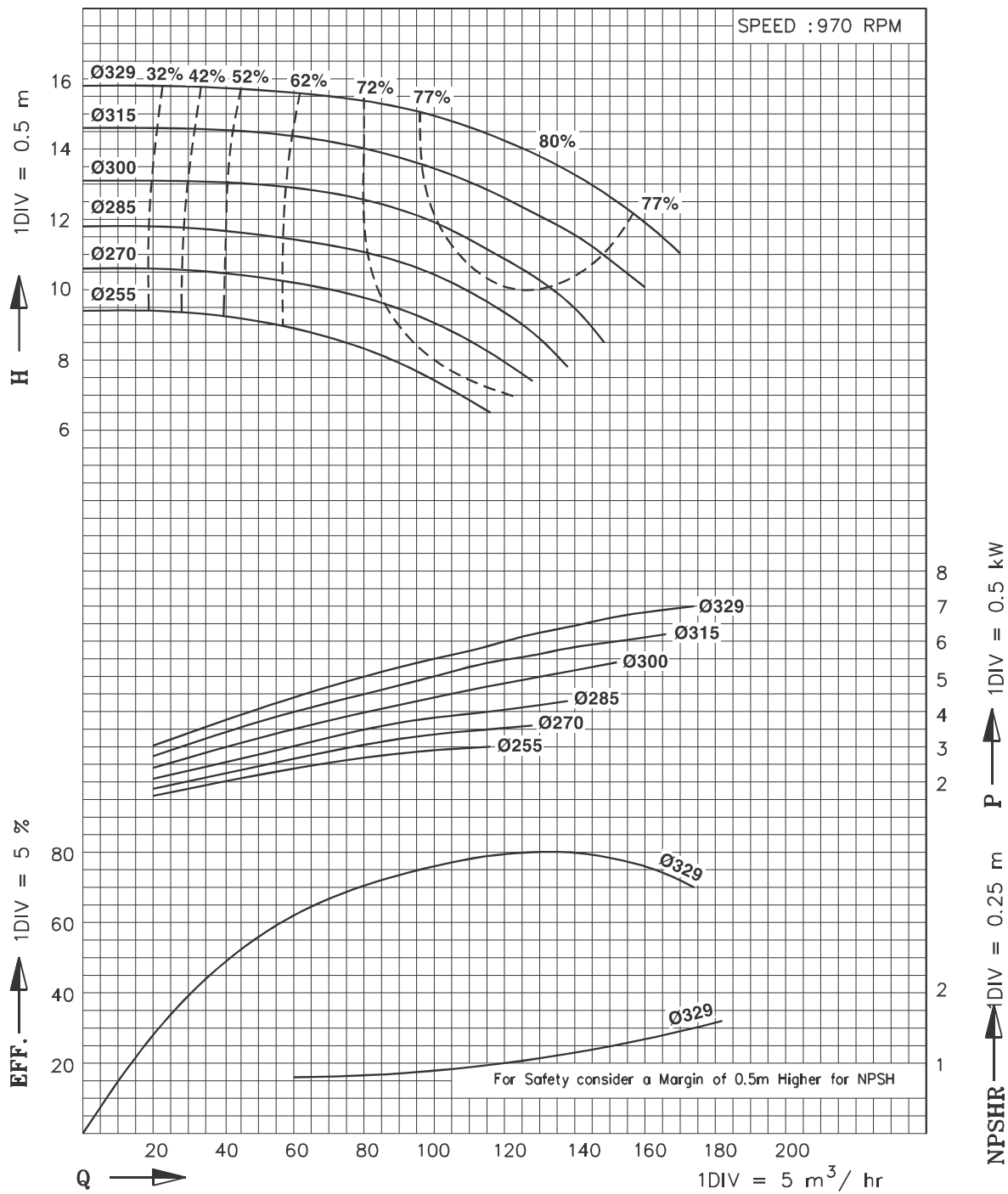


PERFORMANCE CURVE

Model : ECW-125/320

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

SIZE : 150 x 125



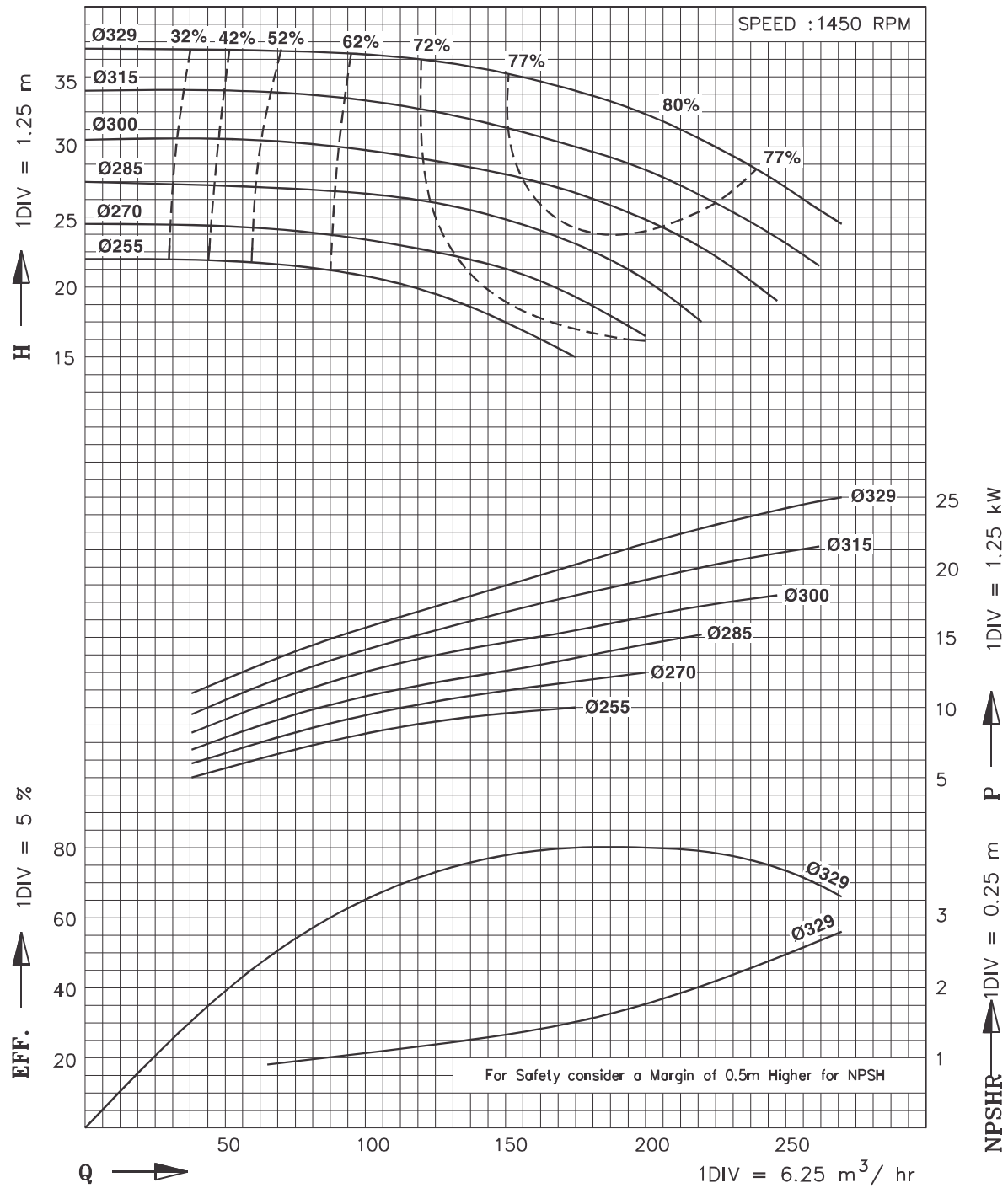


PERFORMANCE CURVE

Model : ECW-125/320

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

SIZE : 150 x 125



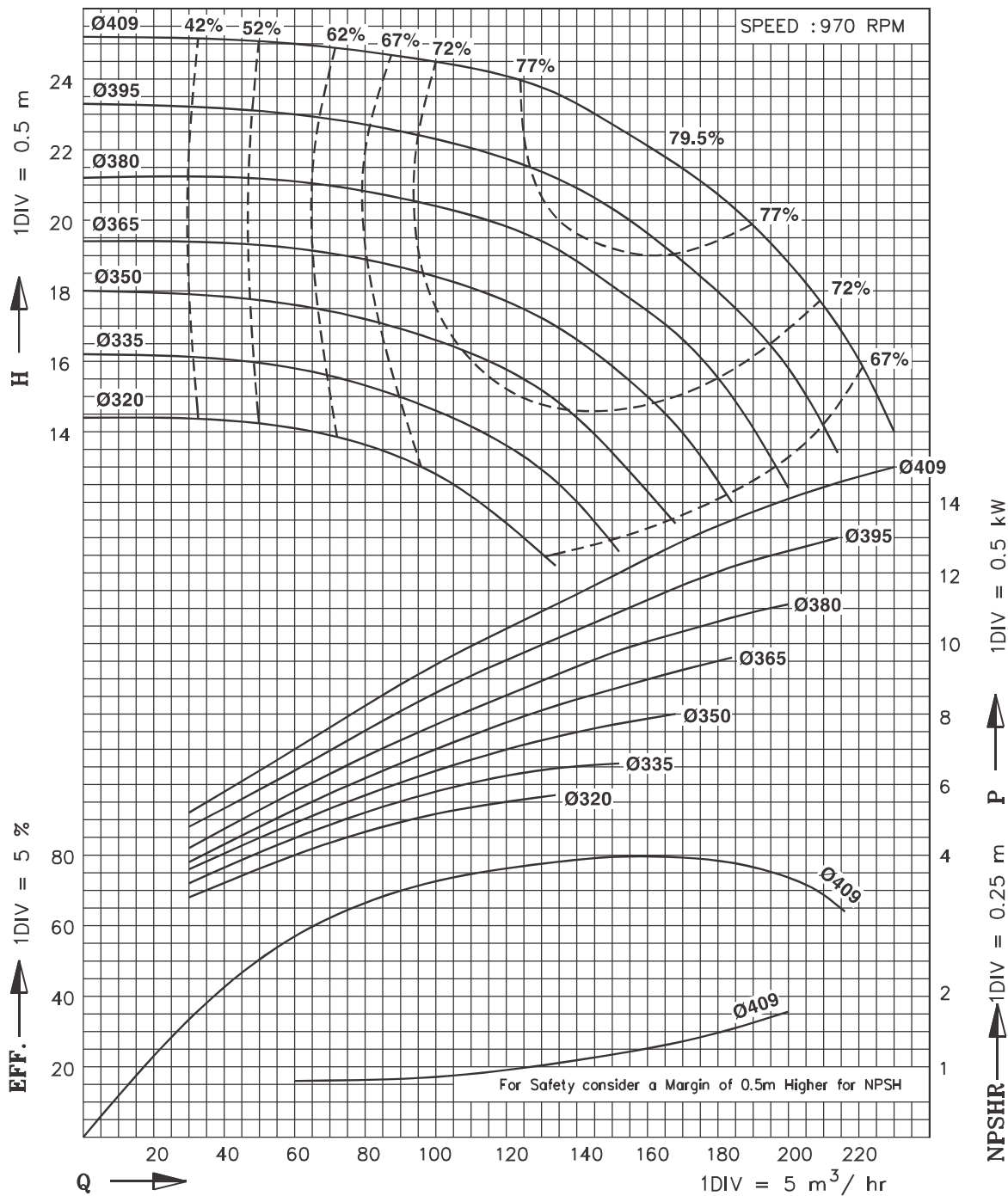


PERFORMANCE CURVE

Model : ECW-125/400

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

SIZE : 150 x 125



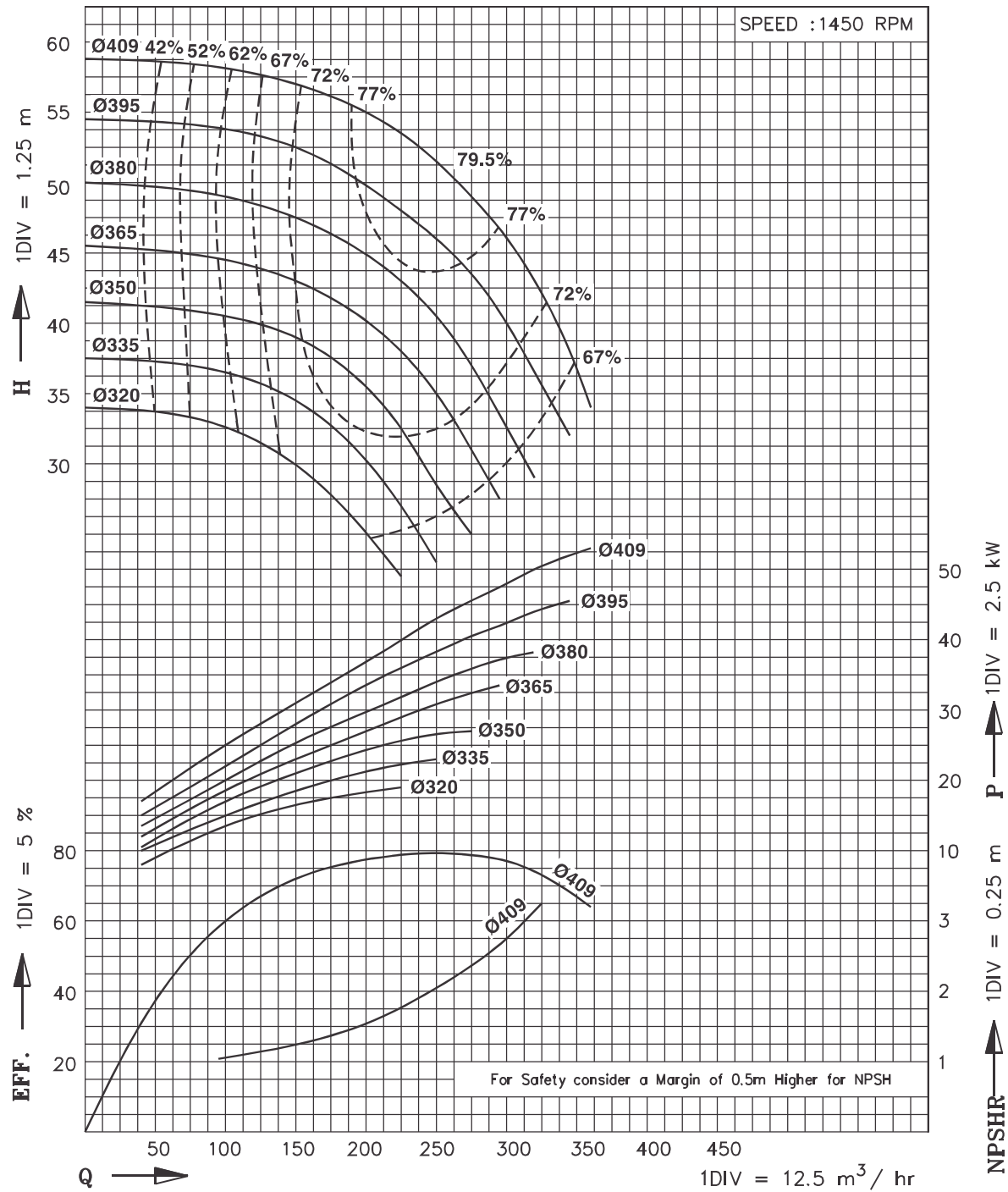


PERFORMANCE CURVE

Model : ECW-125/400

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

SIZE : 150 x 125



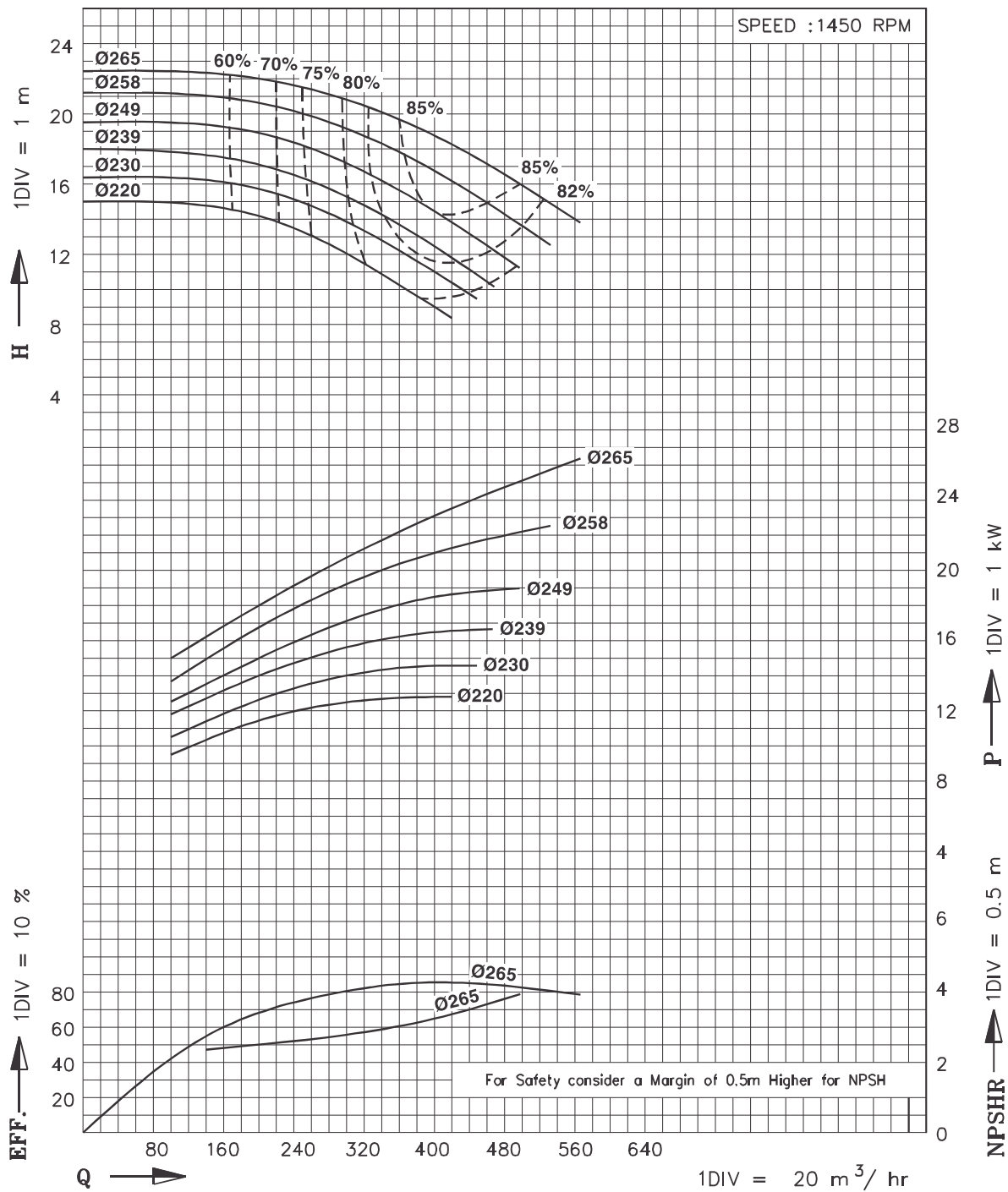


PERFORMANCE CURVE

Model : ECW-150/260

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

SIZE : 200 x 150



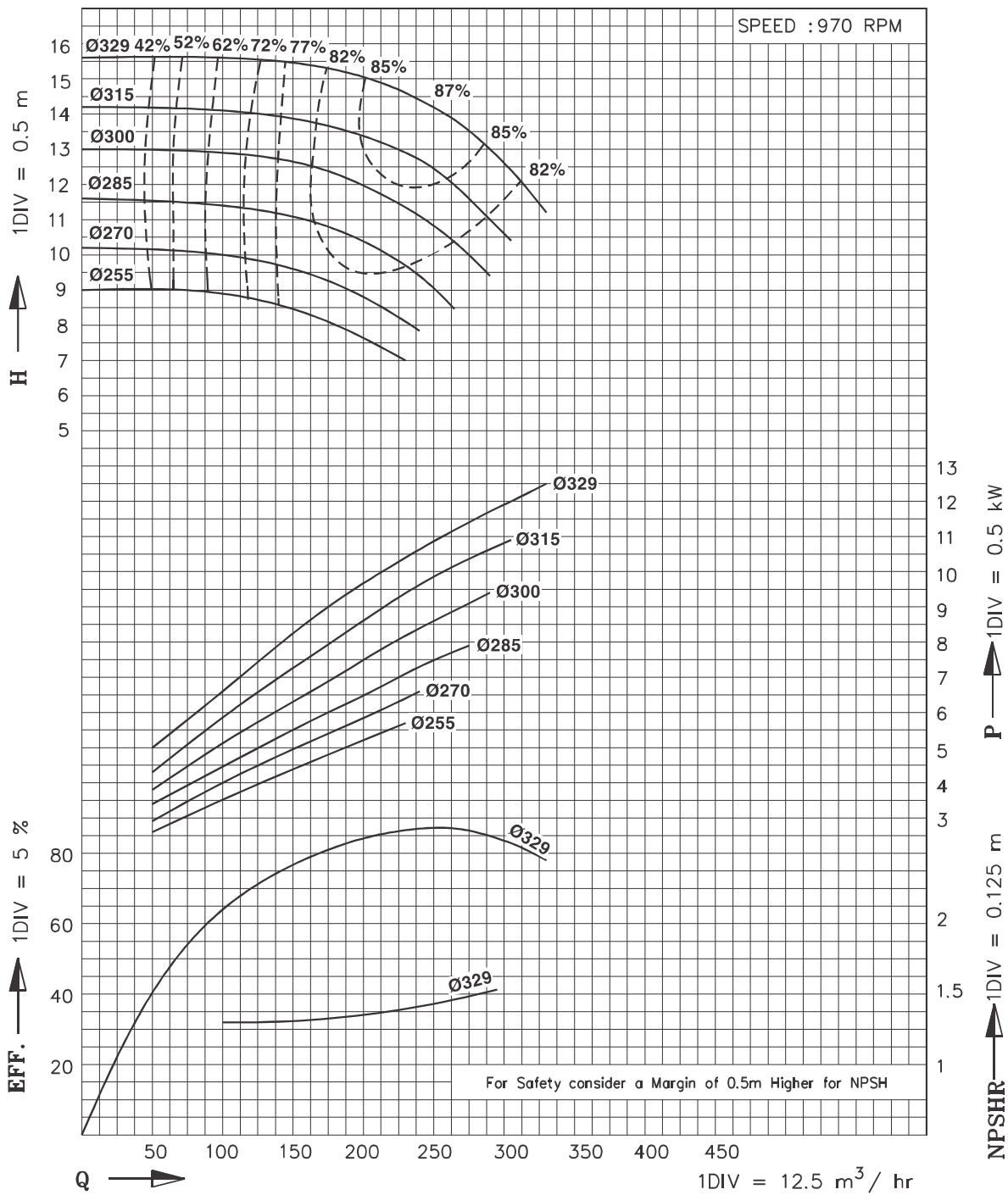


PERFORMANCE CURVE

Model : ECW-150/320

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

SIZE : 200 x 150



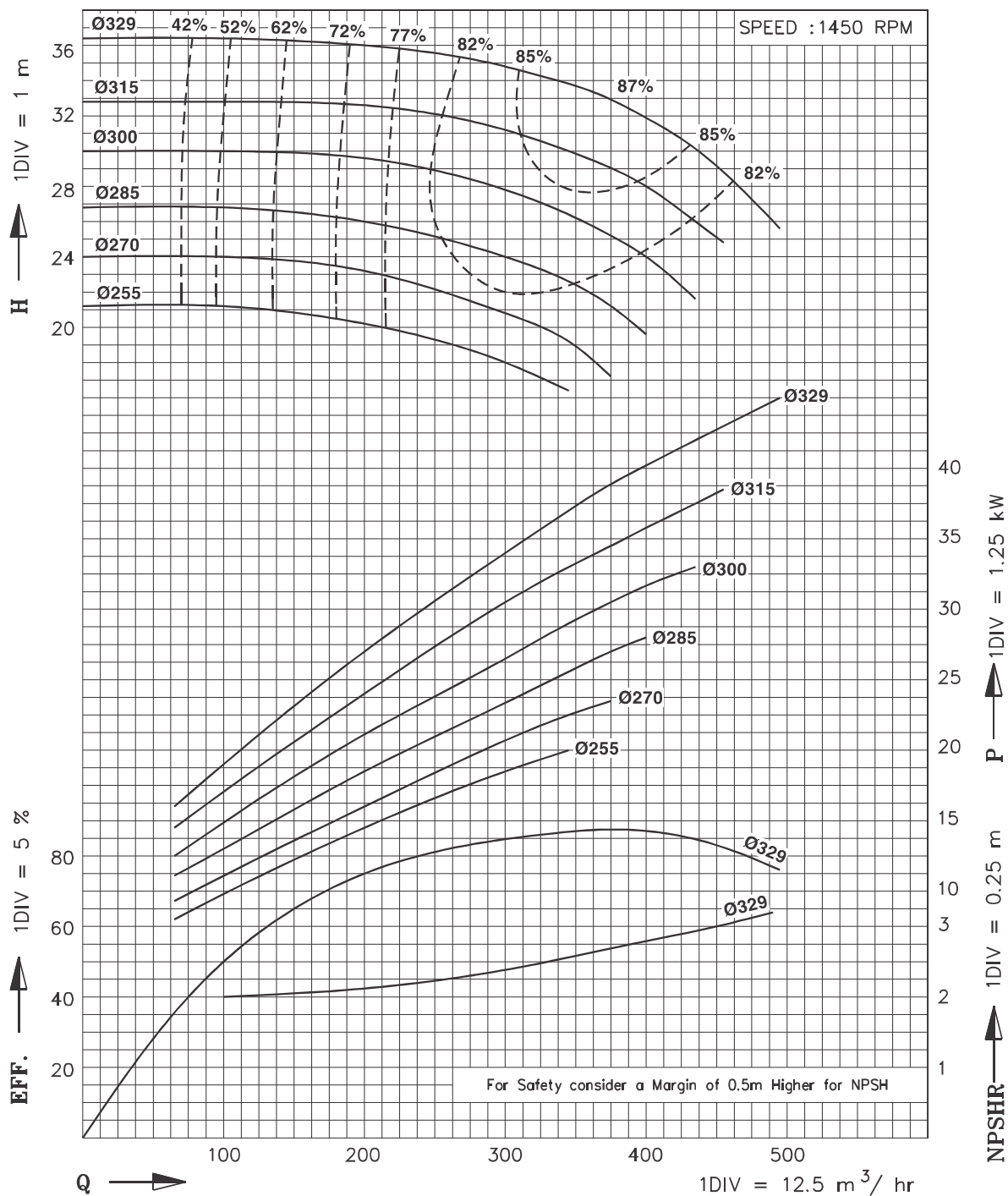


PERFORMANCE CURVE

Model : ECW-150/320

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

SIZE : 200 x 150



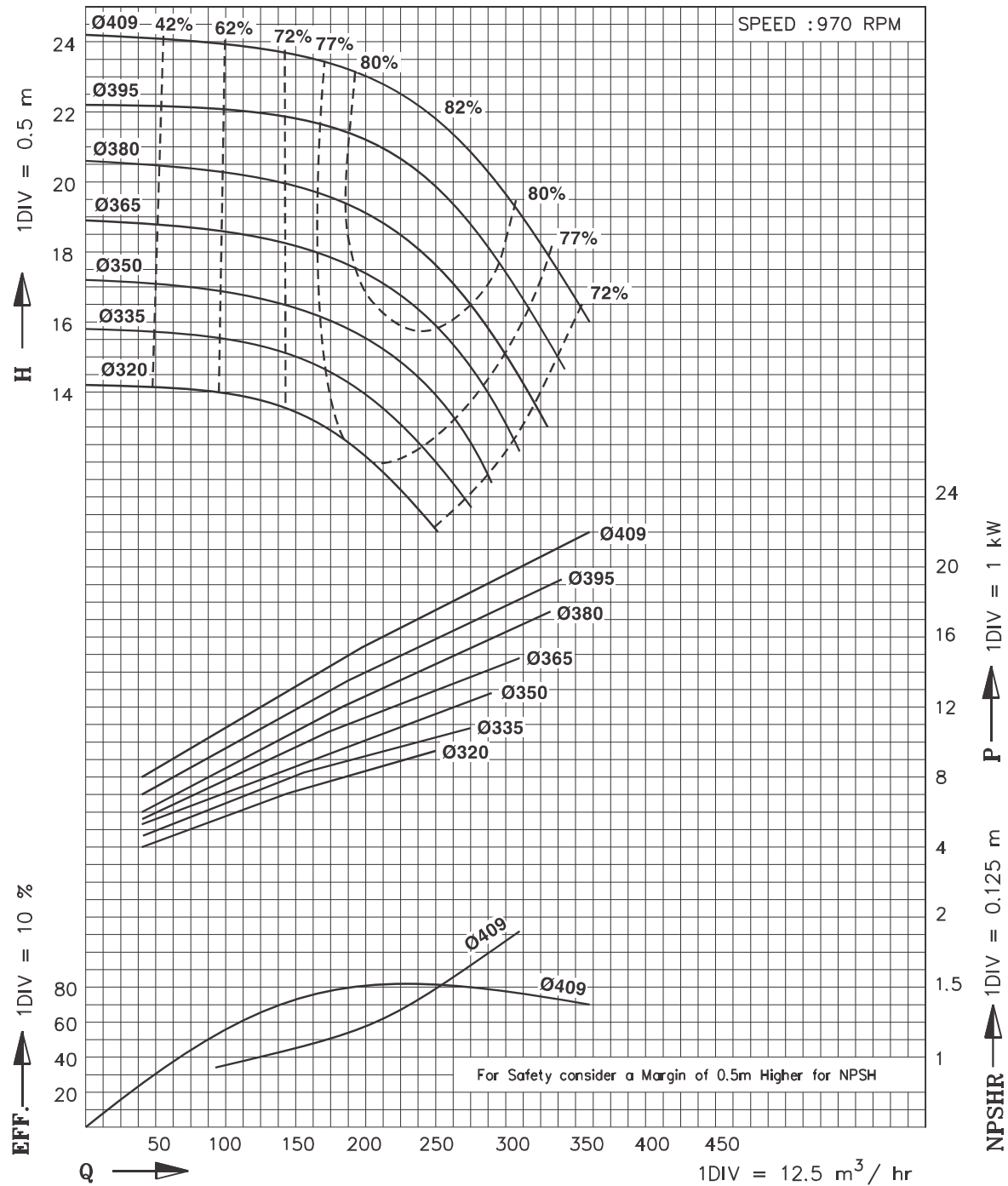


PERFORMANCE CURVE

Model : ECW-150/400

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

SIZE : 200 x 150





PERFORMANCE CURVE

Model : ECW-150/400

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

SIZE : 200 x 150

