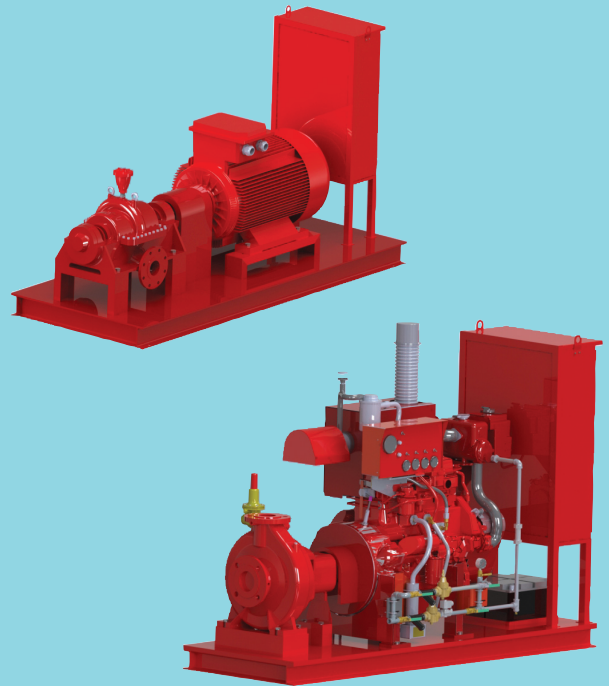


# EBITT - UL

## Approved Fire Pump Sets



### Construction

The fire pump sets are being mounted and aligned with electric motor, and/or diesel engine on a common base plate. The fire pump package includes all pump fittings such as manometers, casing relief valve, and automatic air release valve (for split-case models) to be supplied with approved electric and/or diesel fire pump controller.

Our fire pump sets are being delivered as a package to be operated as for Plug&Play type.

### Pumps

Ebit UL approved fire pumps are ideally developed and produced either for small flows or high flows through well-designed compact packages. Ebit-N series-End-Suction Fire pumps have back pull out design for easy maintenance, self-venting center line discharge, and low NPSH requirements. The pump construction is ductile iron body, bronze fitted with packing. The shaft and sleeves are in AISI316 Stainless steel and be supported by thrust ball bearings, and radial roller bearing.

Ebit-SCP series-Double Suction, split-casing pumps are in-line designed, space saving, easy maintenance horizontal type. Our split-case pumps are heavy-duty designed with replaceable wear rings and sleeves. Bearings are mounted and can be replaced without opening pump case. Each stuffing box is fitted with bronze gland and with a stuffing box extension to facilitate the packaging rings removal. The pump construction is ductile iron body, bronze fitted with packaging. The shaft and sleeves are in AISI316 stainless steel and be supported by heavy-duty ball bearings and roller bearing.

### Electric Motor

Ebit UL approved fire pump sets always have Totally Enclosed Fan Cooled (TEFC) type of electric motors. Our motors in our sets have UL Listings, IP55 protection class, and F insulation class. The voltages are in 50 Hz, 380 Volts and/or 415 Volts with Wye-Delta Starting type as in standard.

### Diesel Engines

Ebit fire pumps are being directly connected through flexible coupling to the diesel engines manufactured by Clarke. All our approved fire pumps are having UL Listed, FM Approved diesel engines with granted and guaranteed continuous power ratings. The diesel engines conform to the requirements of NFPA 20 and specifically approved for fire pump application and service. Diesel engines operate at a rated speed not exceeding the above RPM and develop sufficient horsepower to drive the pump with reserve power.

Internal Cooling System loop is included in our engine sets. The cooling water supply for the heat exchanger is from the discharge of the pump, taken off prior to the pump discharge valve. The pipe connection includes four manual shut-off valves (including by-pass line), two strainers, two pressure regulators, an approved and listed automatic solenoid valve, and a pressure gauge, piping and fittings are all fitted to the diesel engine as per NFPA 20 by Ebit.

One set of double heavy duty lead acid batteries are being supplied by Ebit mounted on the common baseplate of our engine-pump set complete with battery cables.

The fuel tank is produced and supplied by Ebit according to NFPA 20 recommendations complete with fill pipe, cap and level gauge to be delivered separately from pump-set with legs for floor mounting.

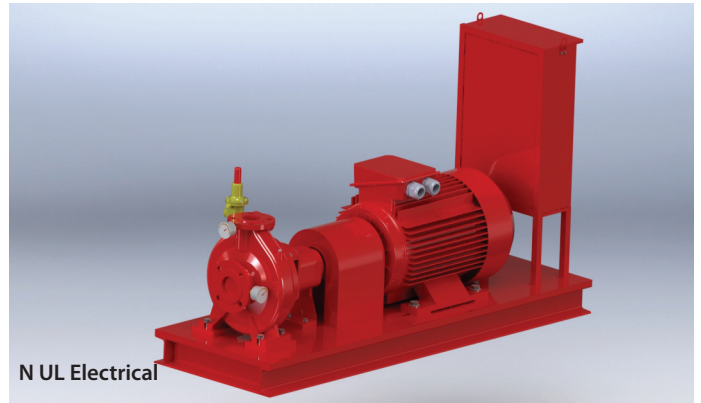
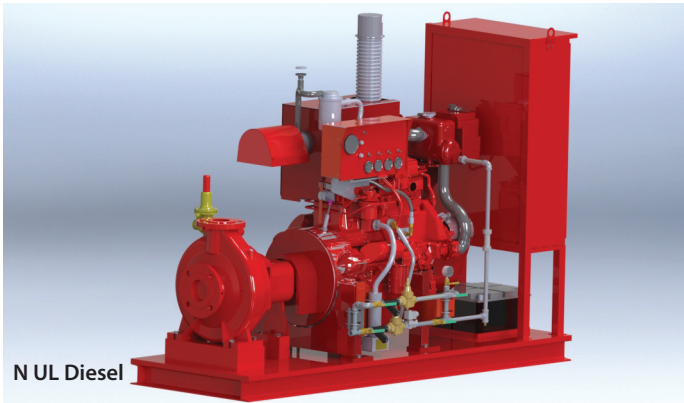
### Minimum Fittings

All Ebit fire pumps are being supplied with suction and discharge gauges, air release valve mounted on pumps. Our electric driven pump sets are also having casing relief valves mounted on our pumps.

### Testing

Ebit fire pumps are being hydrostatically tested to a pressure recommended by UL. The fire pump is subjected to a performance test at a rated speed. Our pumps furnish not less than 150% of rated capacity at a pressure not less than 65% of rated head. The shut-off head is not

# Approved Fire Pump Sets



exceeding 140% of rated head. Ebitt certified test curve is being supplied with the pump.

## Electric Fire Pump Controller

Ebitt fire pump set includes fire pump controller on its own base plate complete with wiring cables to the electric motor. All settings are being made in Ebitt factory as ready for use.

Electric Fire Pump controller meets the requirements of the latest edition of NFPA 20 and is UL Listed, FM Approved.

Ebitt electric fire pump controller has Wye-Delta Starting method as standard and optional for other type of starting methods. Our controller has a withstand ratings of 100.000 RMS symmetrical amperes, 380V, 415V, etc. The controller includes a motor rated combination isolating switch and circuit breaker, mechanically interlocked and operated with a single externally mounted handle.

The isolating switch is rated to disconnect the motor load. The isolating switch/circuit breaker combination is mechanically interlocked such that the enclosure door cannot be opened when the handle is in the ON position except by a tool operated defeater mechanism.

The controller is complete with a 4 line by 40 character LCD display mounted on a panel opening in the front door. The LCD display includes system pressure, voltage and amperage readings, frequency, date, time, set point, start/stop points, weekly test time and controller statistics screen which includes run time, start/stop numbers, system voltage, frequency and pressure recordings, etc.

The controller displays last messages screen that will display up to 10.000 alarms/messages stored in the memory.

The controller has green status LED's for power on, pump running, local start, remote start, emergency start, deluge valve, interlock status, low pressure etc. And the controller has also red alarm LED's for phase reversal,

phase failure, fail to start, undervoltage, overvoltage, low room temperature, lock rotor trip, low suction pressure, etc.

The microprocessor logic board is available with USB port for transference of message history, controller status, diagnostics, and statistics. A solid-state 4-20 mA pressure sensor is included.

All relays are equipped with the plug-in type and all relay contacts provided for phase reversal, phase failure, common alarm, pump run, and the common alarm and phase relays are energized under normal conditions. An audible alarm buzzer, capable of being heard while the motor is operating, shall operate if fail to start. Hardware malfunction or any common alarm condition exists.

## Diesel Fire Pump Controller

EBITT fire pumps set includes diesel fire pump controller on its own base plate complete with wiring cables to batteries and diesel engine instrument panel. All settings are being made in EBITT factory as Ready for use. Engine controller meets the requirements of the latest edition of NFPA 20 and is UL listed, FM Approved.

The diesel engine controller incorporates the following components: Two independently functional battery charges, each having its own power transformer rated for a maximum continuous charge current of 10 amperes. The charger has solid state electronic design with a semi-conductor type rectifier and includes the following supervisory and safety features.

- a) Current limiting in every charging mode
- b) Over-current shut-off
- c) Automatic selection of bulk or float charge by battery voltage sensing
- d) Lower than 0,5 ampere trickle charge
- e) Reverse voltage shut-off
- f) Dead cell detection
- g) Over and under voltage alarm
- h) Charger initiated battery failure alarm with signaling to prevent the use

# Approved Fire Pump Sets



DJ-XVM

of the defective battery during the engine starting cycle.

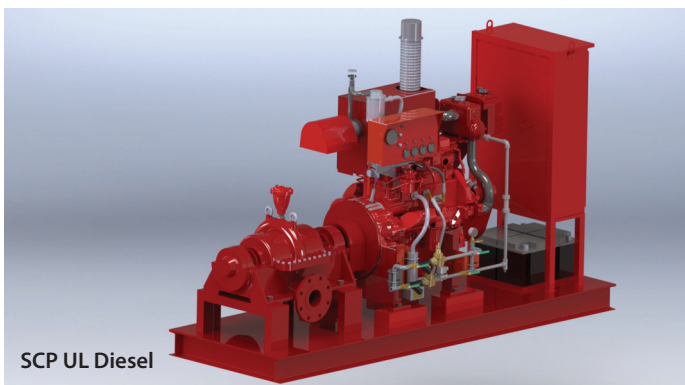
All relays are equipped with manual test buttons and ON-OFF status indicators and terminal block to indicate the following engine conditions;

- a) Two SPDT contacts for engine running condition.
- b) One NO/NC contact when the main switch is in the AUTO position.
- c) One NO/NC contact when the main switch is in the MANUAL or OFF position.
- d) One SPTD contact indicating engine trouble. The engine trouble condition is indicated on engine over speed, engine failure to start, low oil pressure, and high coolant temperature conditions.

A solid-state 4-20 mA pressure sensor is included.

A seven-day pressure recorder is provided.

A central annunciator and operator control panel is provided inside the controller but visible and accessible through a breakable glass panel on the enclosure door. This control panel incorporates all alarm and status pilot light indicators, voltmeters and ammeters for battery charges and the four positions main switch manual start push buttons, and combination Lamp test / Charger reset push button and the operational NORMAL/SILENCE selector switch for pump room alarms.



SCP UL Diesel

## DJ-XVM

### EBITT, JOCKEY PUMP SYSTEM

#### Construction

EBITT-DJ is a DOL starting controlled jockey pump system in EBITT UL fire pump stations.

The jockey pump system is being factory assembled and mounted on a common base plate with vibration isolators complete with pump, motor, DOL starter, pump inlet-outlet valves and check valve, pressure switch, pressure gauge and absorber type of expansion tank with replaceable membrane.

#### PUMPS

EBITT-XVM Series, vertical, in-line, complete stainless steel centrifugal pumps are equipped with TEFC type of motor with IP55 protection 380V/415V, 50 Hz, IEC standardized type.

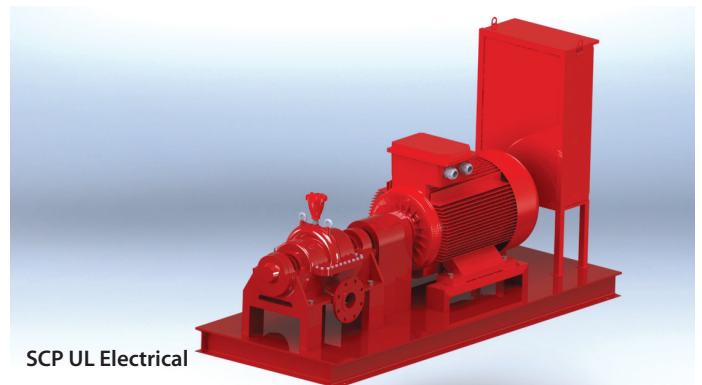
- Pump wet ends are completely in AISI304 Stainless steel. Sealing of pump is mechanical type, bi-directional.
- Connections are threaded type.

#### JOCKEY PUMP CONTROLLER

EBITT Jockey Pumps' controller is listed to UL508 Standard for industrial Controls. The controller contains an externally operable horsepower rated motor circuit protection device, a motor contactor and a door mounted hand-off-auto switch.

Our jockey pump controller includes a pressure switch with independent high and low set points for automatic starting and stopping and has the following features;

- Externally operable motor starter protector
- Motor contactor
- Hand-off-auto selector switch
- Pressure switch
- Control Power transformer
- Minimum run period timer.



SCP UL Electrical

# Approved Fire Pump Sets

## End-Suction Pumps - 3000 RPM

Pump Size	Rated Pressure (Hm)	Maximum Pump (kW)	Shut-Off Head (Hm)	Electric Motor Tefc (kW)	Diesel Engine Model	Diesel Engine (kW)
<b>100 GPM</b>						
N 32/250 - 2" x 1 1/4"	75	13,3	79	15	KA4H-UFKA24	34
	80	14,8	83	18,5	KA4H-UFKA24	34
	85	15,3	88	18,5	KA4H-UFKA24	34
	90	16,6	94	18,5	KA4H-UFKA24	34
	95	17,4	98	22	KA4H-UFKA24	34
	98	17,8	102	22	KA4H-UFKA24	34
<b>150 GPM</b>						
N 32/250 - 2" x 1 1/4"	65	14,9	78	18,5	KA4H-UFKA24	34
	70	16,3	82	18,5	KA4H-UFKA24	34
	75	17,8	87	22	KA4H-UFKA24	34
	80	19,7	92	22	KA4H-UFKA24	34
	85	21,4	96	30	KA4H-UFKA24	34
	90	23	100	30	KA4H-UFKA24	34
<b>200 GPM</b>						
N 50/260 - 3" x 2"	70	23	72	30	KA4H-UFKA24	34
	80	25	82	30	KA4H-UFKA24	34
	90	27	92	30	KA4H-UFKA24	34
	93	28	96	30	KA4H-UFKA24	34
<b>250 GPM</b>						
N 50/260 - 3" x 2"	70	26,7	74,3	30	KA4H-UFKA24	34
	80	29	83,3	30	KA4H-UFKA24	34
	90	32	93	37	KA4H-UFKA24	34
	93	33	96,3	37	KA4H-UFKA24	34
<b>300 GPM</b>						
N 65/260 - 4" x 2 1/2"	70	33	73,2	37	KA4H-UFKA24	34
	80	38,2	82	45	JU4H-UF04	45
	90	44	84,2	45	JU4H-UF04	45
	93	45	93,2	45	JU4H-UF04	45
<b>400 GPM</b>						
N 65/260 - 4" x 2 1/2"	70	38,3	76	45	JU4H-UF04	45
	80	44,3	84	45	JU4H-UF04	45
	90	50,8	92,4	55	JU4H-UF14	53
	93	52,2	94,8	55	JU4H-UF14	53
<b>450 GPM</b>						
N 65/260 - 4" x 2 1/2"	70	40,4	76,8	45	JU4H-UF04	45
	80	46,7	84,4	55	JU4H-UF14	53
	90	53	82,8	55	JU4H-UF14	53
<b>450 GPM</b>						
N 80/250 - 5" x 3"	80	43,4	82	45	JU4H-UF04	45
	90	50,4	91,3	55	JU4H-UF14	53
	100	57,9	100,3	75	JU4H-UF24	62

# Approved Fire Pump Sets

## End-Suction Pumps - 3000 RPM

Pump Size	Rated Pressure (Hm)	Maximum Pump (kW)	Shut-Off Head (Hm)	Electric Motor Tefc (kW)	Diesel Engine Model	Diesel Engine (kW)
<b>500 GPM</b>						
N 80/250 - 5" x 3"	70	41,2	75	45	JU4H-UF04	45
	80	46,6	83	45	JU4H-UF04	45
	90	53	91,7	55	JU4H-UF14	53
	100	60,7	100,3	75	JU4H-UF24	62
<b>500 GPM</b>						
N 80/315 - 5" x 3"	106	72	115	75	JU4H-UF34	86
	110	74	119	75	JU4H-UF34	86
	115	74,8	123	75	JU4H-UF34	86
	120	75,7	128	75	JU4H-UF34	86
	125	79	133	90	JU4H-UF34	86
	130	83	136	90	JU4H-UF34	86
	140	88	146	90	JU4H-UF54	108
	150	96	155	110	JU4H-UF54	108
155	107	160	110	JU4H-UF54	108	
<b>750 GPM</b>						
N 100/315 - 5" x 4"	80	64	88	75	JU4H-UF34	86
	90	71	97	75	JU4H-UF34	86
	100	79	106	90	JU4H-UF34	86
	110	84	116	90	JU4H-UF34	86
	120	94	126	110	JU4H-UF54	108
	130	102	135	110	JU4H-UF54	108
	140	116	145	132	JU6H-UF34	131
	145	121	151	132	JU6H-UF34	131
<b>1000 GPM</b>						
N 100/250 - 5" x 4"	57	53	64	55	JU4H-UF14	53
	65	61	72	75	JU4H-UF24	62
	70	72	76	75	JU4H-UF34	86
	80	80,4	86	90	JU4H-UF34	86
	90	89,3	94	90	JU4H-UF54	108
	100	99,8	104	110	JU4H-UF54	108
<b>1000 GPM</b>						
N 100/315 - 5" x 4"	75	76	93	90	JU4H-UF34	86
	80	82	96	90	JU4H-UF34	86
	90	91	106	90	JU4H-UF54	108
	100	94	113	110	JU4H-UF54	108
	110	106	124	132	JU4H-UF54	108
	120	116	133	132	JU6H-UF34	131
	130	124	142	132	JU6H-UF34	131
	140	134	152	160	JU6H-UF54	161

# Approved Fire Pump Sets

## End-Suction Pumps - 3000 RPM

Pump Size	Rated Pressure (Hm)	Maximum Pump (kW)	Shut-Off Head (Hm)	Electric Motor Tefc (kW)	Diesel Engine Model	Diesel Engine (kW)
<b>1250 GPM</b>						
N 100/250 - 5" x 4"	55	68	67	75	JU4H-UF34	86
	65	76	76	90	JU4H-UF34	86
	75	84	86	90	JU4H-UF34	86
	85	99	94	110	JU4H-UF54	108
	95	113	102	110	JU6H-UF34	131
<b>1250 GPM</b>						
N 125/315 - 6" x 5"	80	101	85	110	JU4H-UF54	108
	90	113	94	132	JU6H-UF34	131
	100	118	103	132	JU6H-UF34	131
	110	134	113	160	JU6H-UF54	161
	120	151	123	160	JU6H-UF54	161
	130	167	133	185	JU6H-UF84	205
	140	186	143	200	JU6H-UF84	205
150	199	153	225	JU6H-UF84	205	
<b>1500 GPM</b>						
N 125/315 - 6" x 5"	70	100,4	78	110	JU4H-UF54	108
	80	113,2	89	132	JU6H-UF34	131
	90	119	97	132	JU6H-UF34	131
	100	134	106	160	JU6H-UF54	161
	110	154	115	160	JU6H-UF54	161
	120	169	124	185	JU6H-UF84	205
	130	186	135	200	JU6H-UF84	205
	140	198	144	200	JU6H-UF84	205
	150	208	154	225	JU6H-UF84	205
<b>2000 GPM</b>						
N 150/315 - 8" x 6"	80	142	90	160	JU6H-UF54	161
	90	157	99	160	JU6H-UF54	161
	100	178	107	185	JU6H-UF84	205
	110	191	117	200	JU6H-UF84	205
	120	212	127	225	JU6H-NL84	225
	128	226	135	250	JU6H-NL84	225

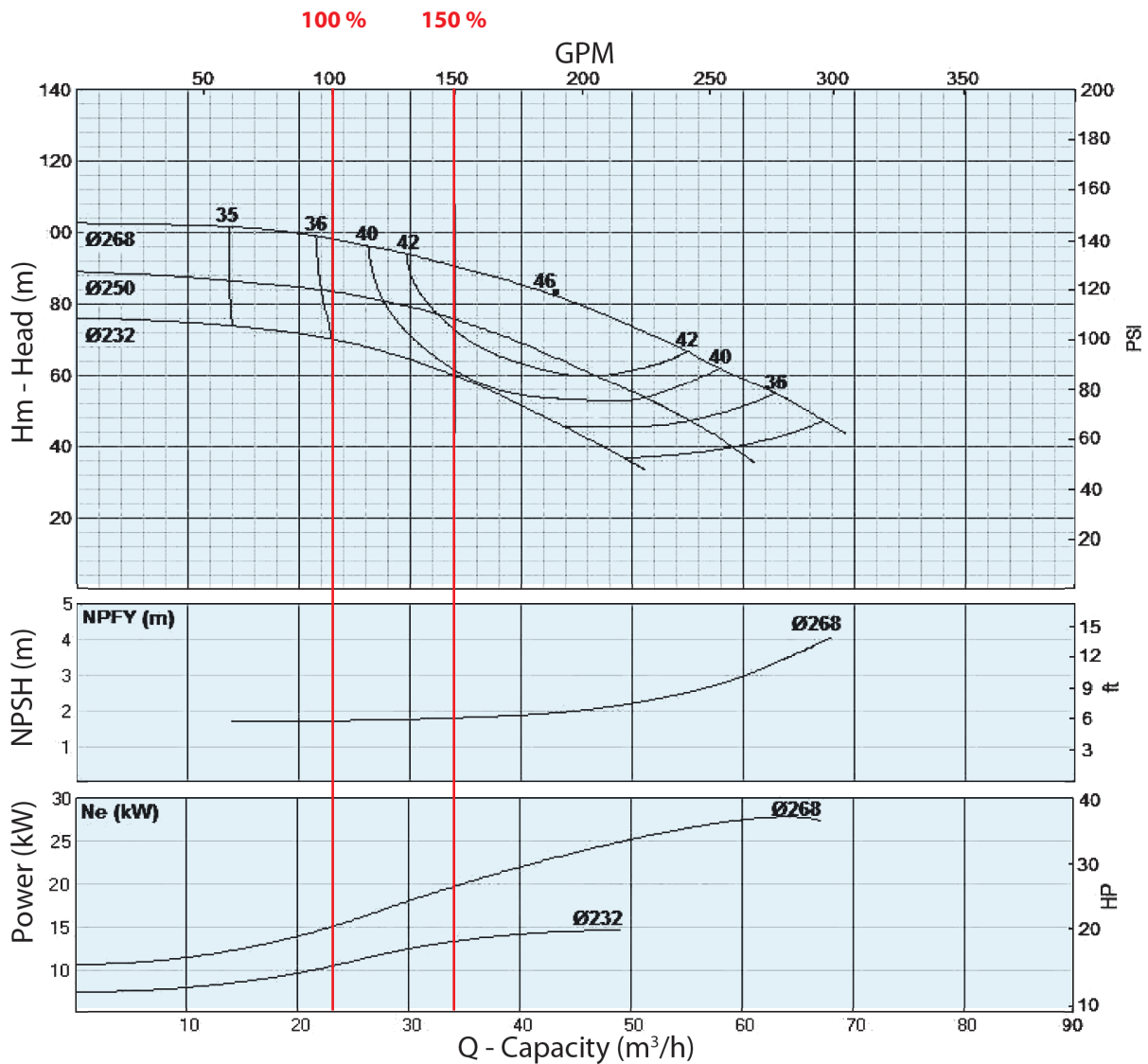
# Approved Fire Pump Sets

## Split-Case Pumps - 3000 RPM

Pump Size	Rated Pressure (Hm)	Maximum Pump (kW)	Shut-Off Head (Hm)	Electric Motor Tefc (kW)	Diesel Engine Model	Diesel Engine (kW)
<b>500 GPM</b>						
SCP 100/250 - 6" x 4"	80	65,1	113,6	75	JU4H-UF24	62
	90	65,1	90	75	JU4H-UF34	86
	100	73,1	100,4	75	JU4H-UF34	86
	110	82	110	90	JU4H-UF34	86
<b>750 GPM</b>						
SCP 100/250 - 6" x 4"	80	69,3	83,3	75	JU4H-UF34	86
	90	78	92,4	90	JU4H-UF34	86
	100	88,8	101,2	90	JU4H-UF54	108
	110	100,2	111,2	110	JU4H-UF54	108
<b>1000 GPM</b>						
SCP 100/250 - 6" x 4"	70	74	81	75	JU4H-UF34	86
	80	85	90	90	JU4H-UF54	108
	90	96	98	110	JU4H-UF54	108
	100	108	106	110	JU4H-UF54	108
	110	121	114	132	JU6H-UF34	131
<b>1000 GPM</b>						
SCP 125/300 - 8" x 5"	80	99	83,1	110	JU4H-UF54	108
	90	110,4	92,4	110	JU4H-UF54	108
	100	124,9	103,6	132	JU6H-UF34	131
	110	141,4	112,9	160	JU6H-UF54	161
	120	161,8	123	160	JU6H-UF54	161
<b>1250 GPM</b>						
SCP 125/300 - 8" x 5"	80	107,8	86,2	110	JU4H-UF54	108
	90	123,8	95,6	132	JU6H-UF34	131
	100	137,9	104,9	160	JU6H-UF54	161
	110	154,7	114,6	160	JU6H-UF54	161
	120	173,1	124,4	185	JU6H-UF84	205
<b>1500 GPM</b>						
SCP 125/300 - 8" x 5"	70	105,4	80	110	JU4H-UF54	108
	80	122,1	89,8	132	JU6H-UF34	131
	90	136,1	98,7	160	JU6H-UF54	161
	100	156,4	108,9	160	JU6H-UF54	161
	110	174,9	117,8	185	JU6H-UF84	205
	120	195,9	128	200	JU6H-UF84	205

# Approved Fire Pump Sets

N 32/250 - 100GPM

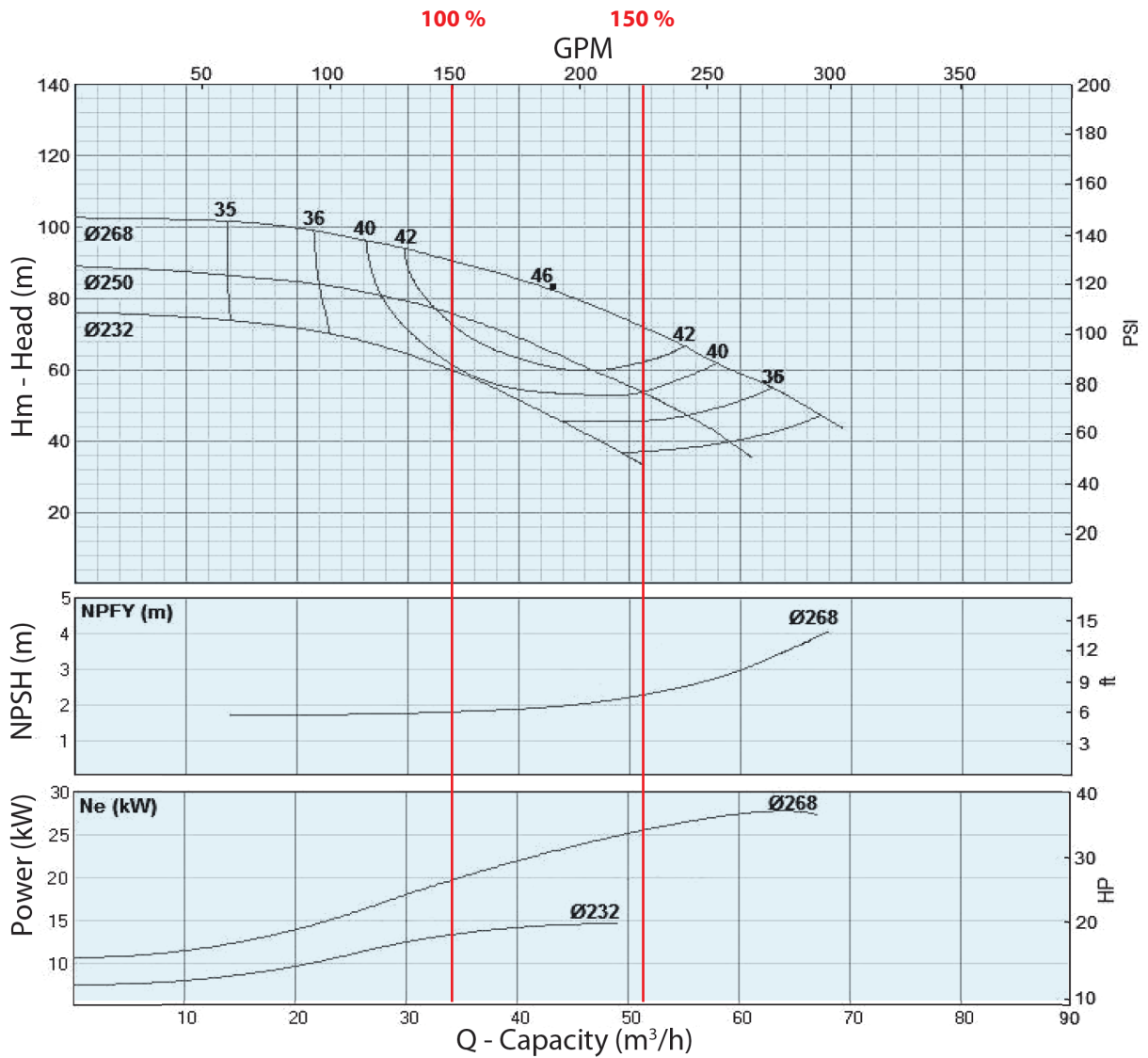


Pump performance tests according to TS EN ISO 9906 CLASS 2.



# Approved Fire Pump Sets

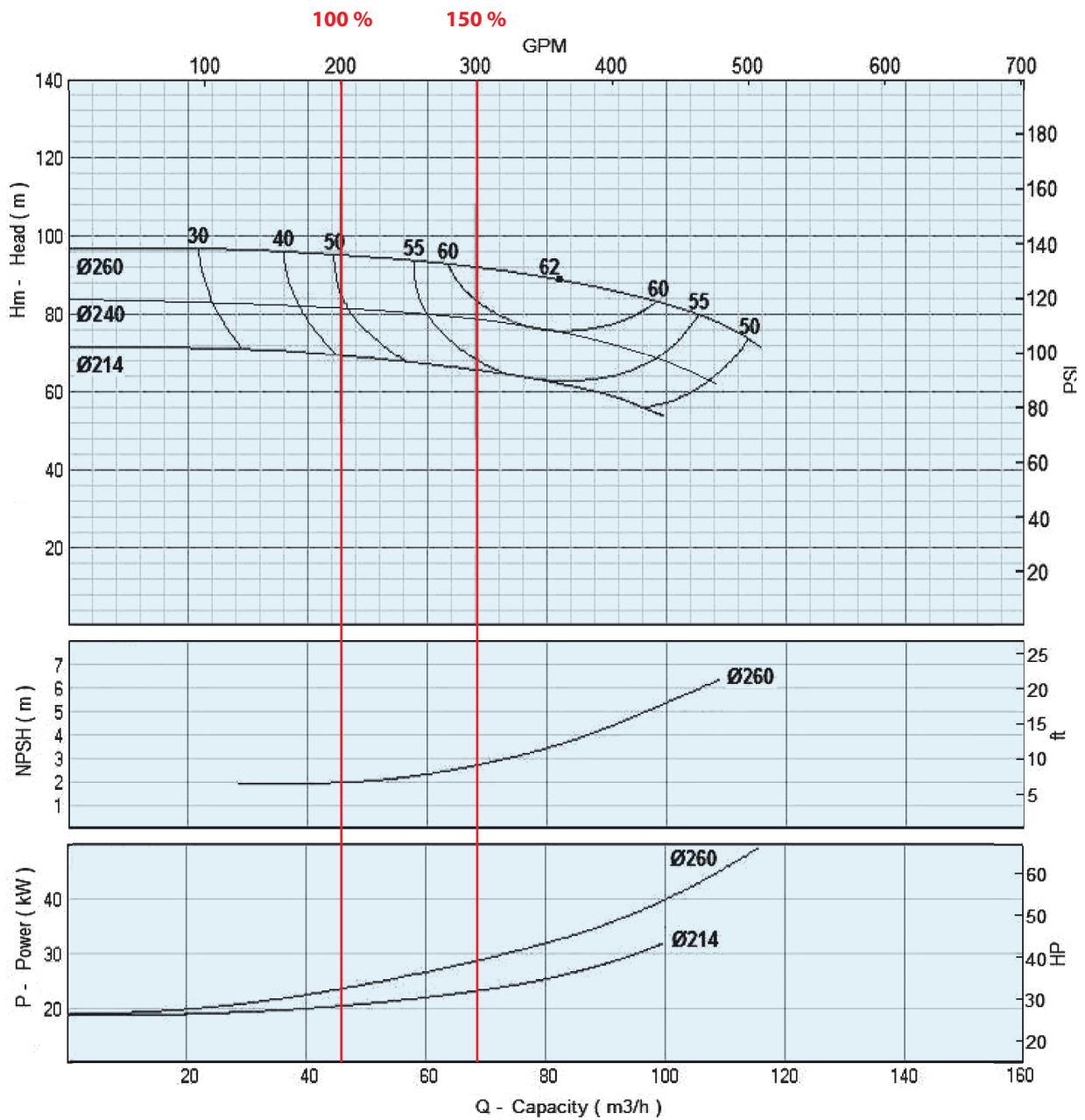
**N 32/250 - 150GPM**



Pump performance tests according to TS EN ISO 9906 CLASS 2.

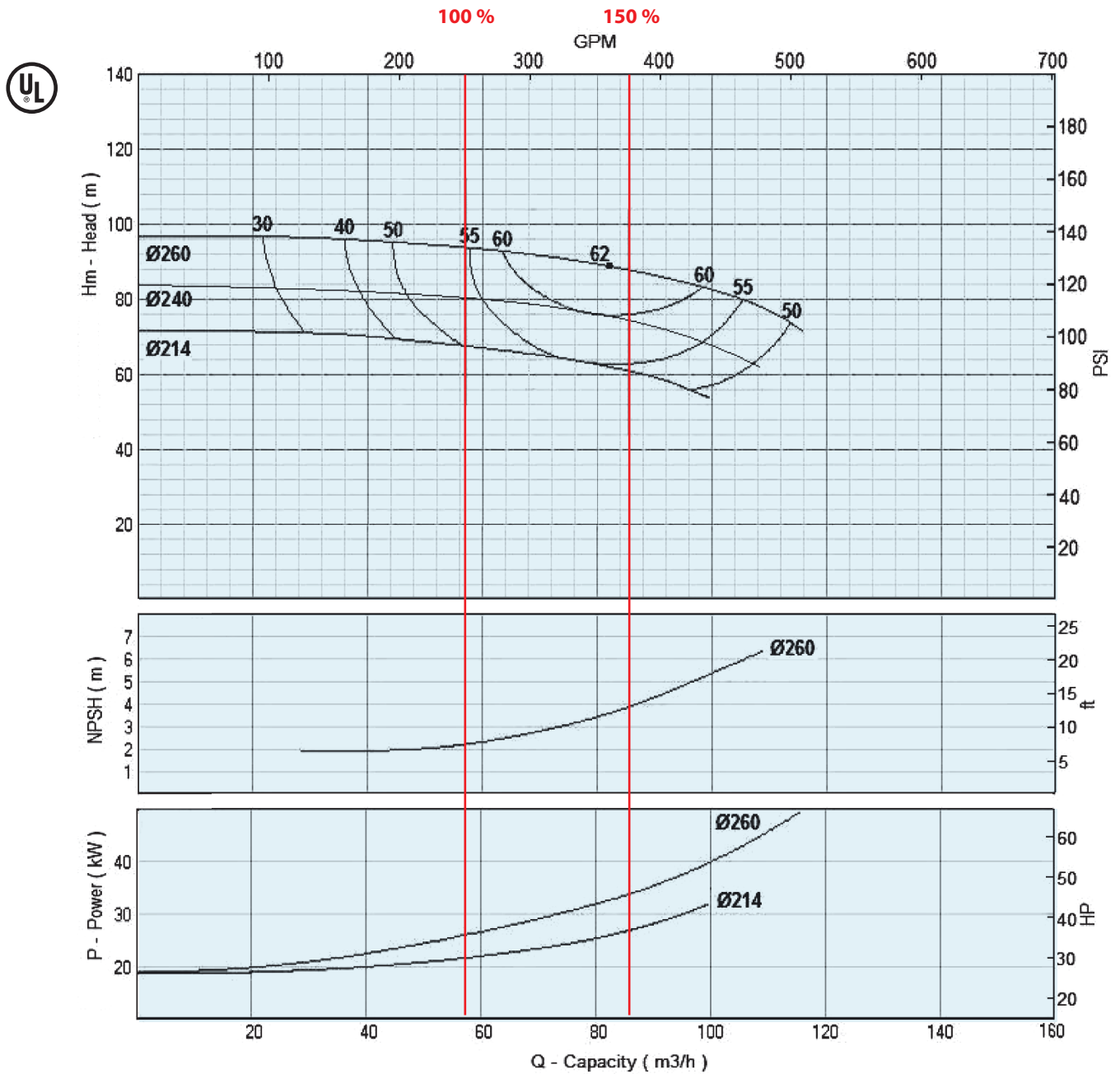
# Approved Fire Pump Sets

N 50/260 - 200 GPM



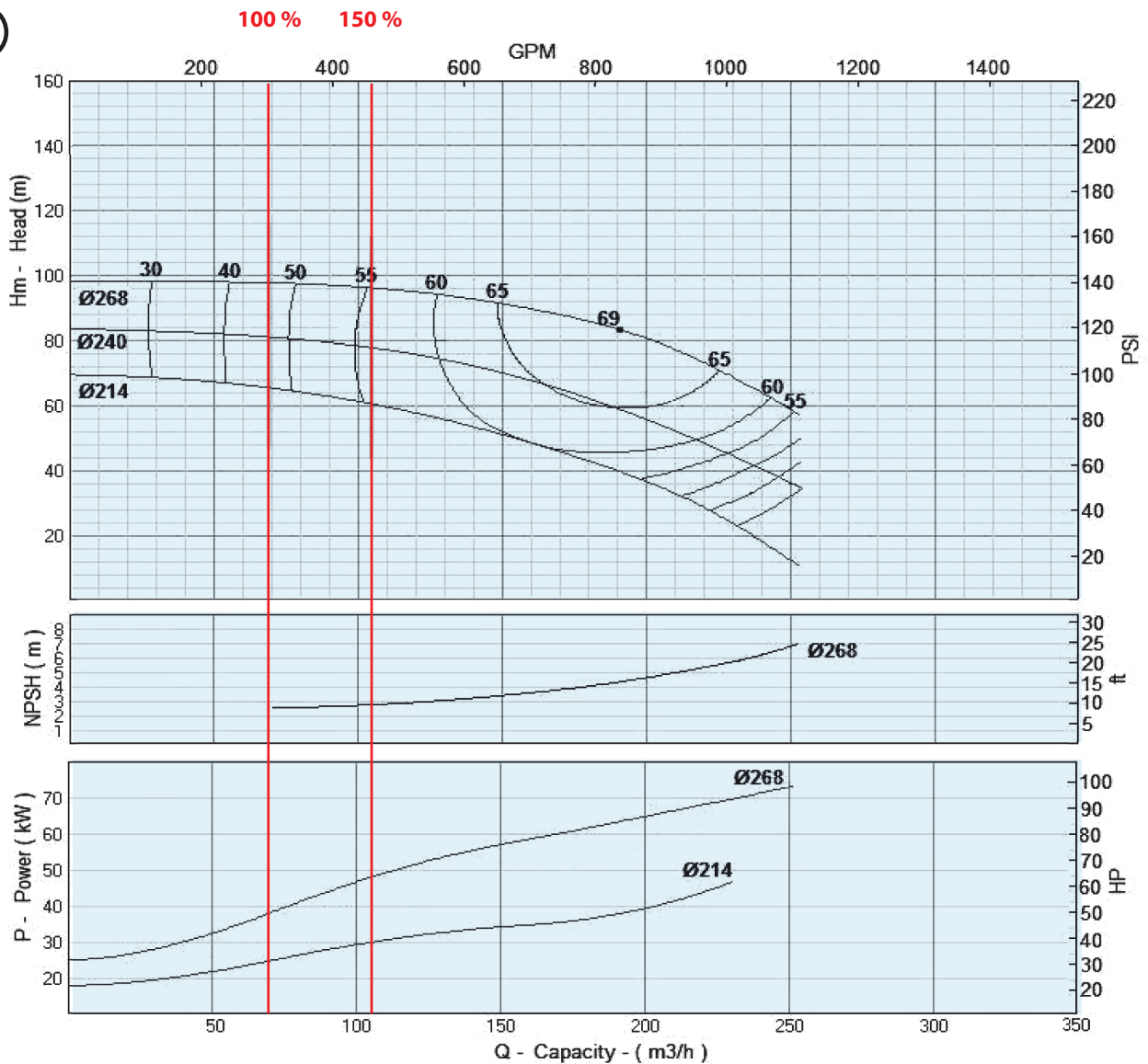
# Approved Fire Pump Sets

## N 50/260 - 250 GPM



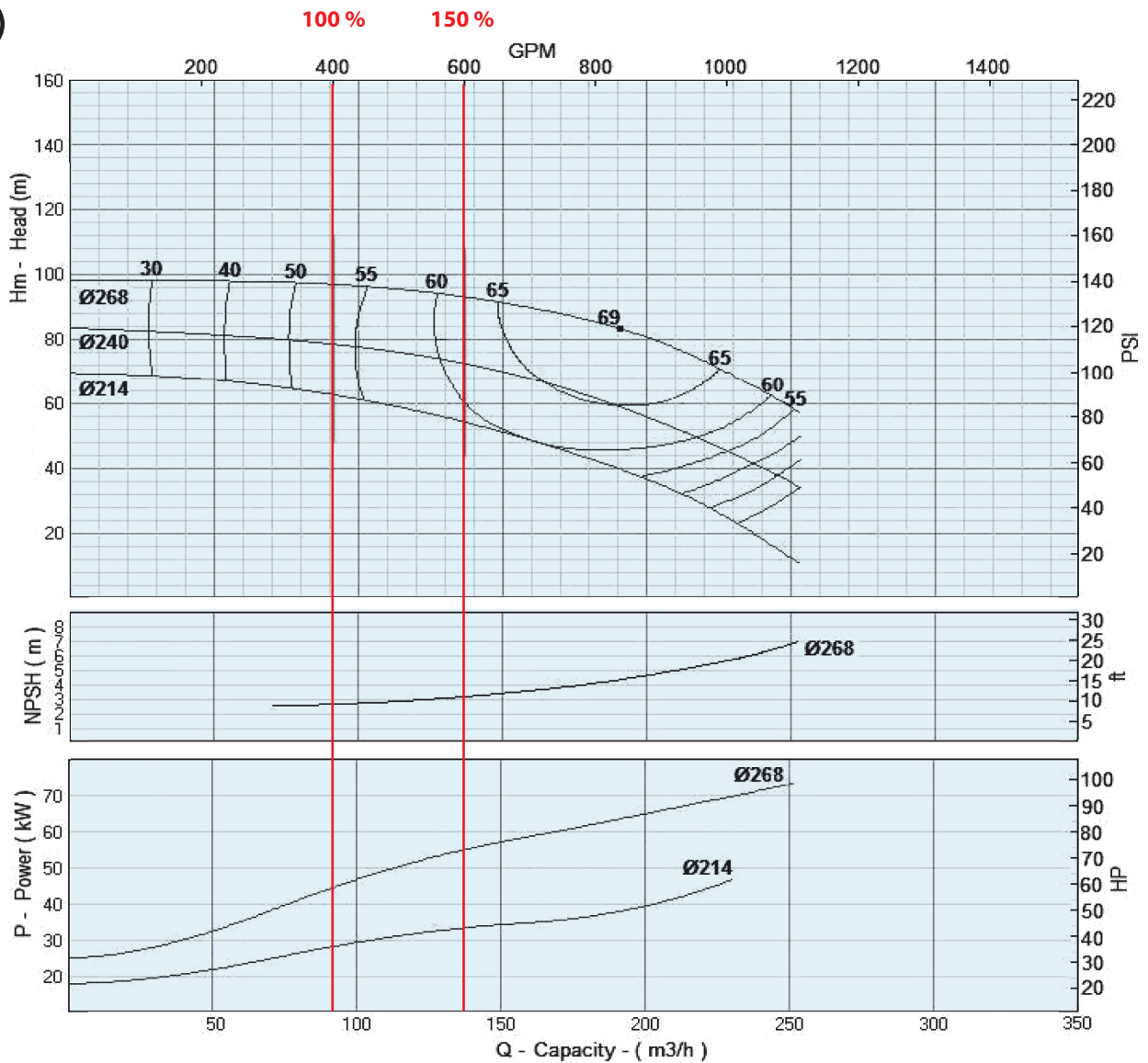
# Approved Fire Pump Sets

N 65/260 - 300 GPM



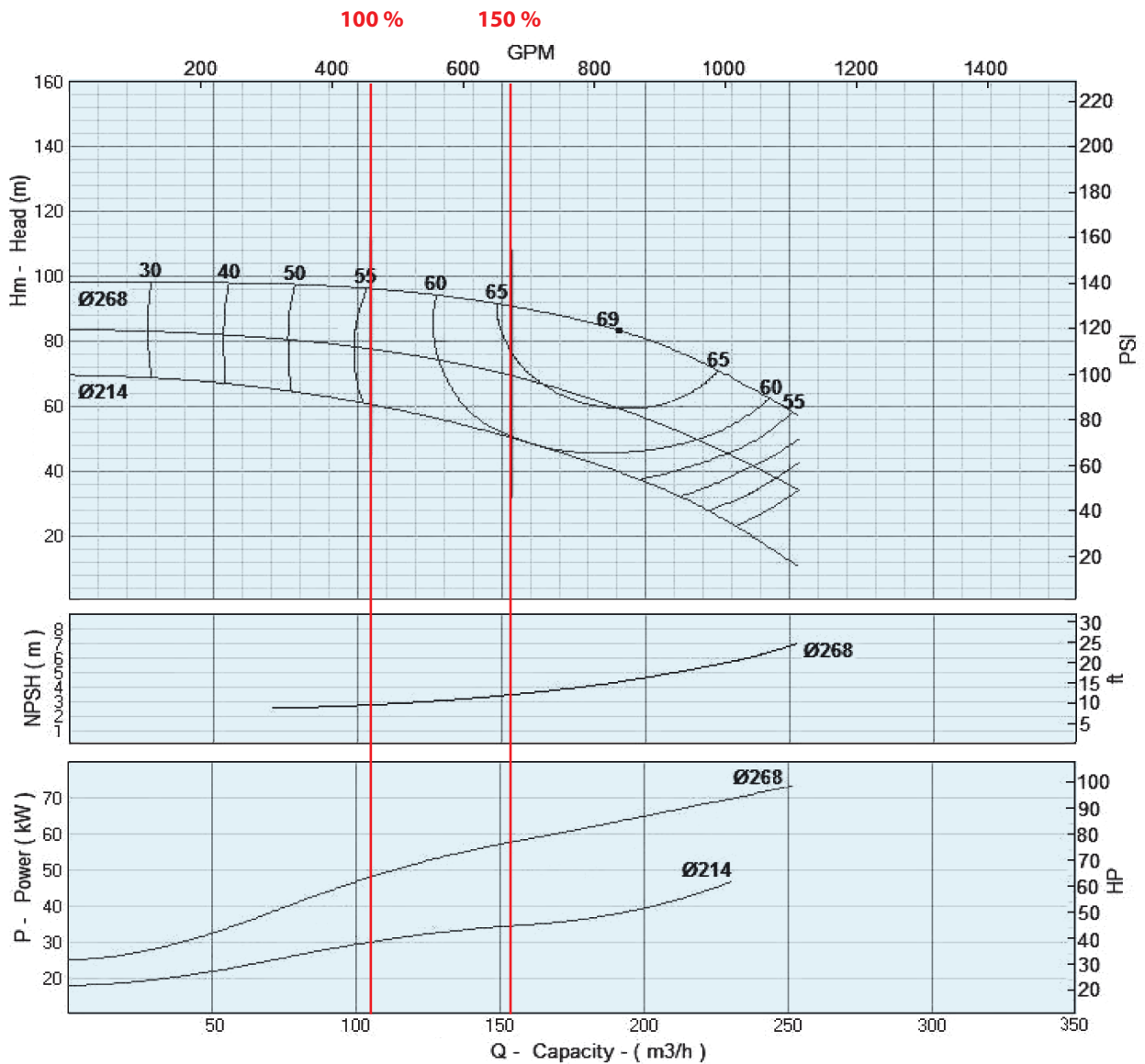
# Approved Fire Pump Sets

N 65/260 - 400 GPM



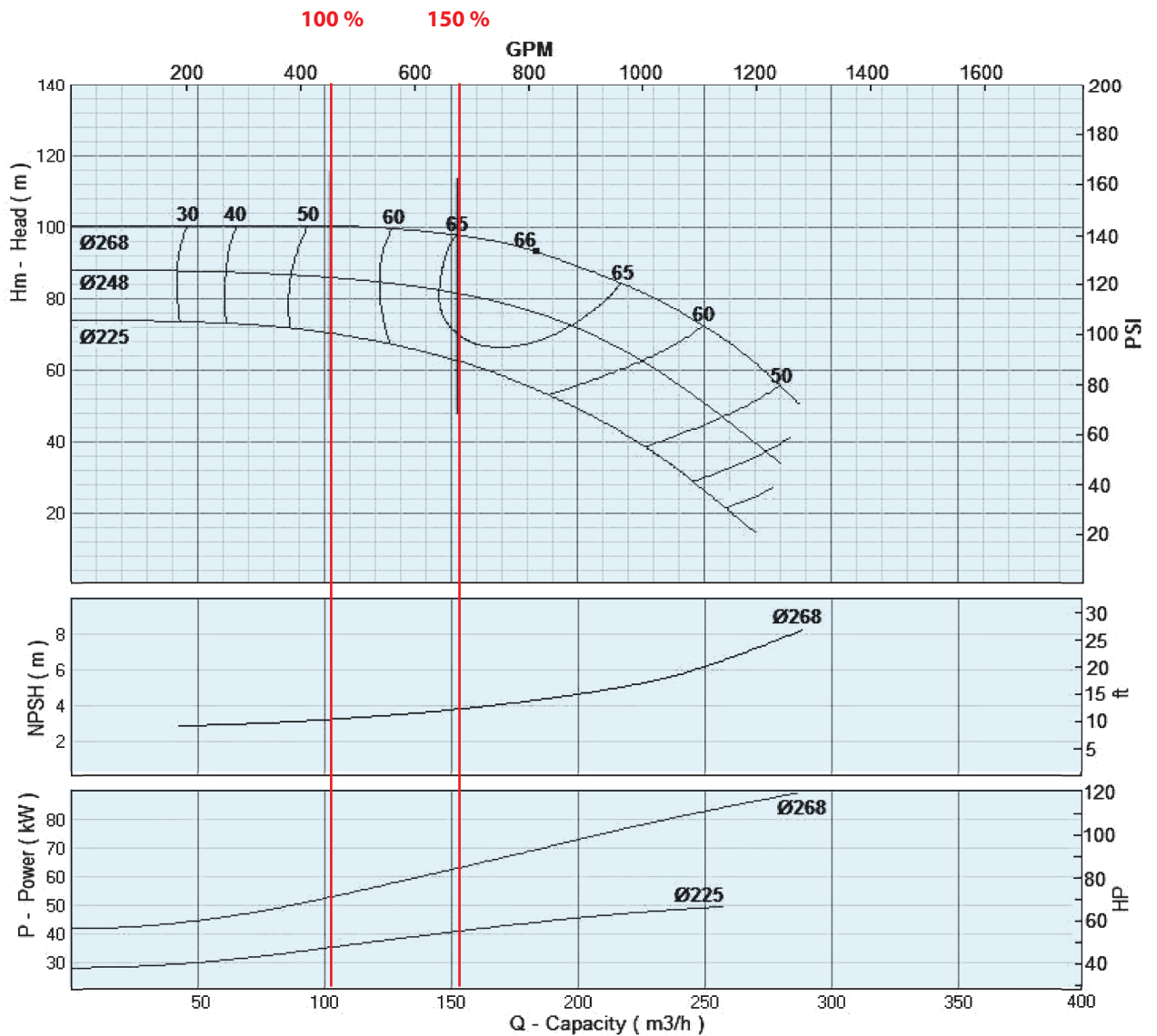
# Approved Fire Pump Sets

N 65/260 - 450 GPM



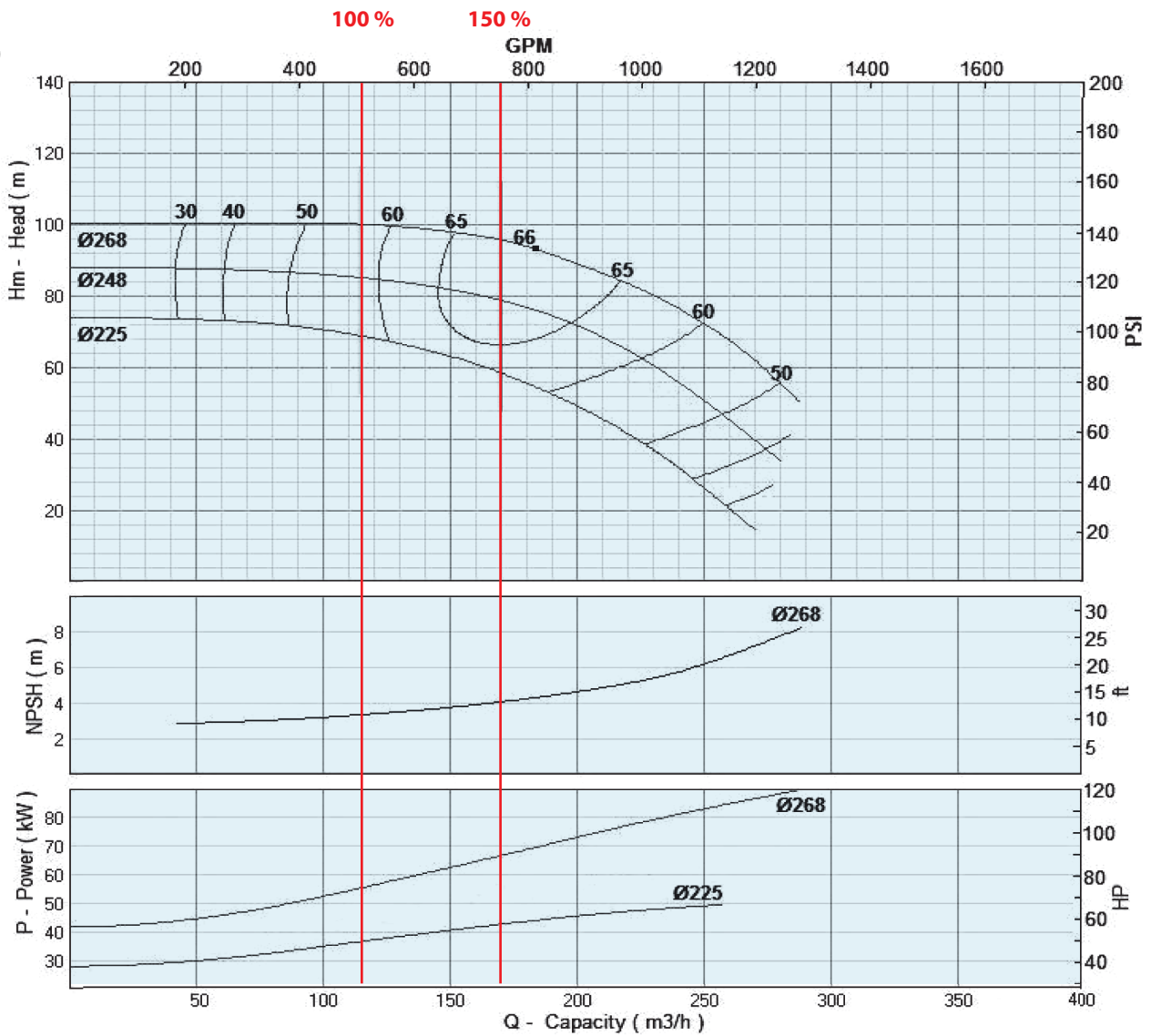
# Approved Fire Pump Sets

N 80/250 - 450 GPM



# Approved Fire Pump Sets

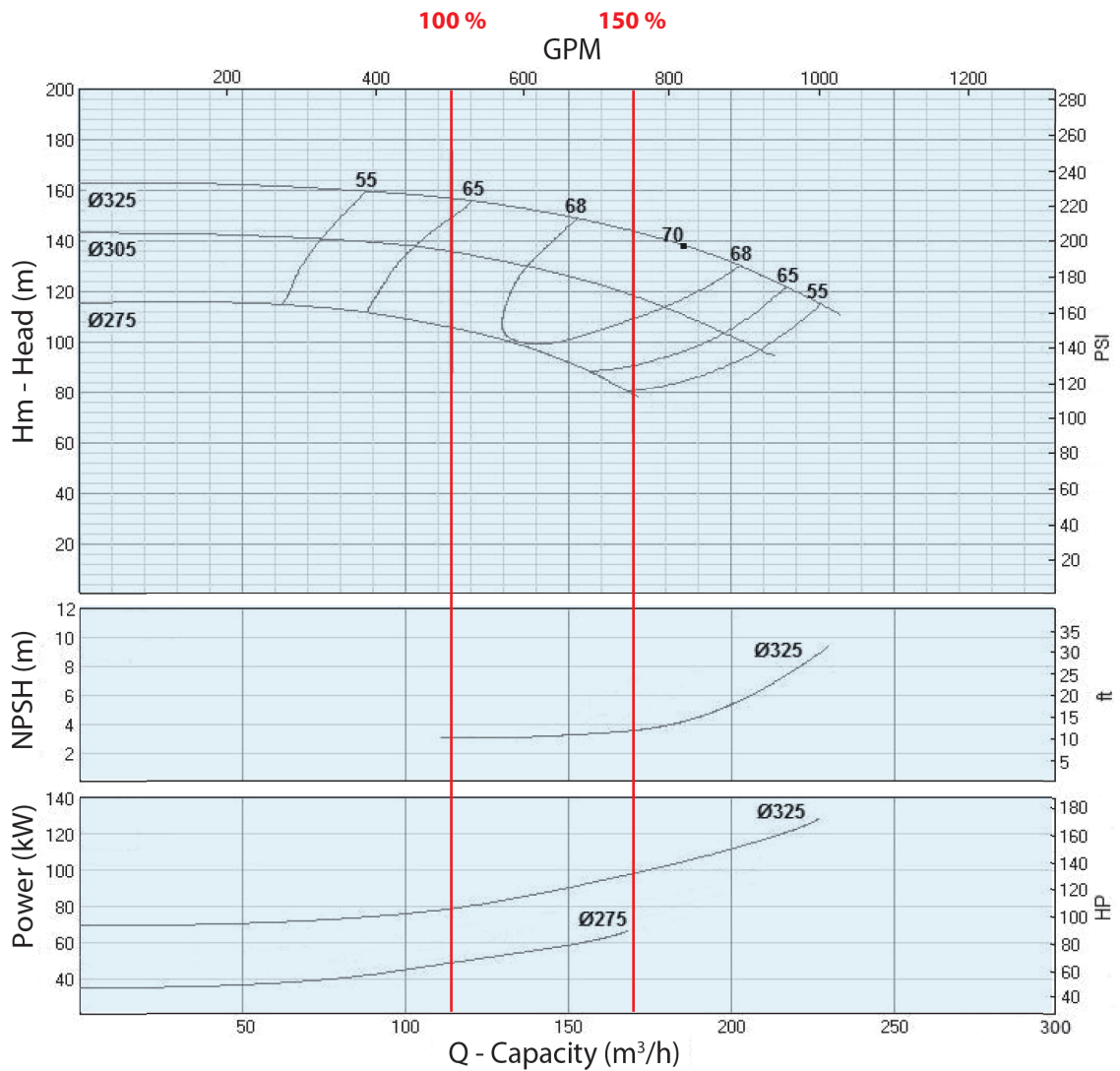
N 80/250 - 500 GPM





# Approved Fire Pump Sets

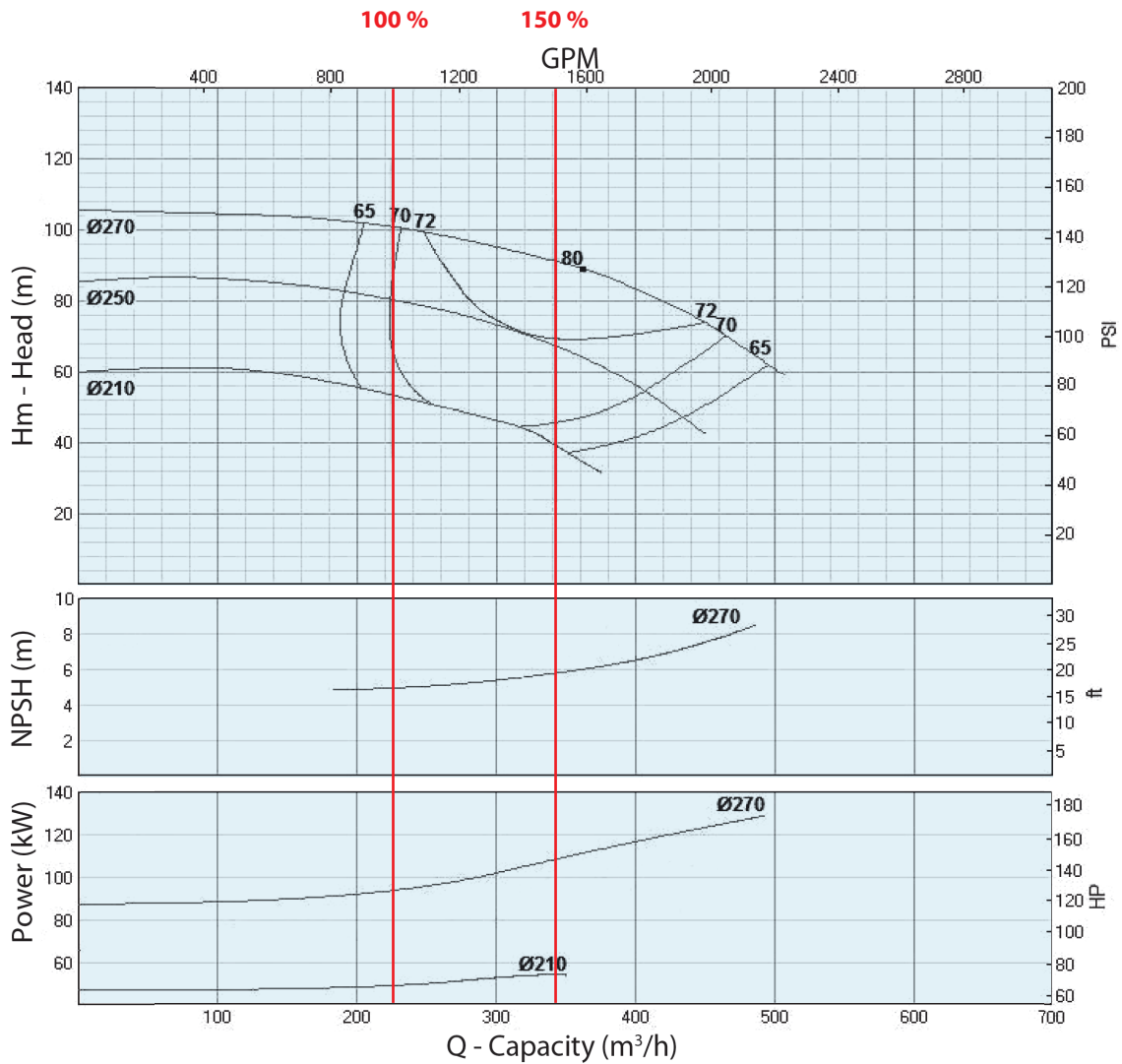
N 80/315 - 500GPM



Pump performance tests according to TS EN ISO 9906 CLASS 2.

# Approved Fire Pump Sets

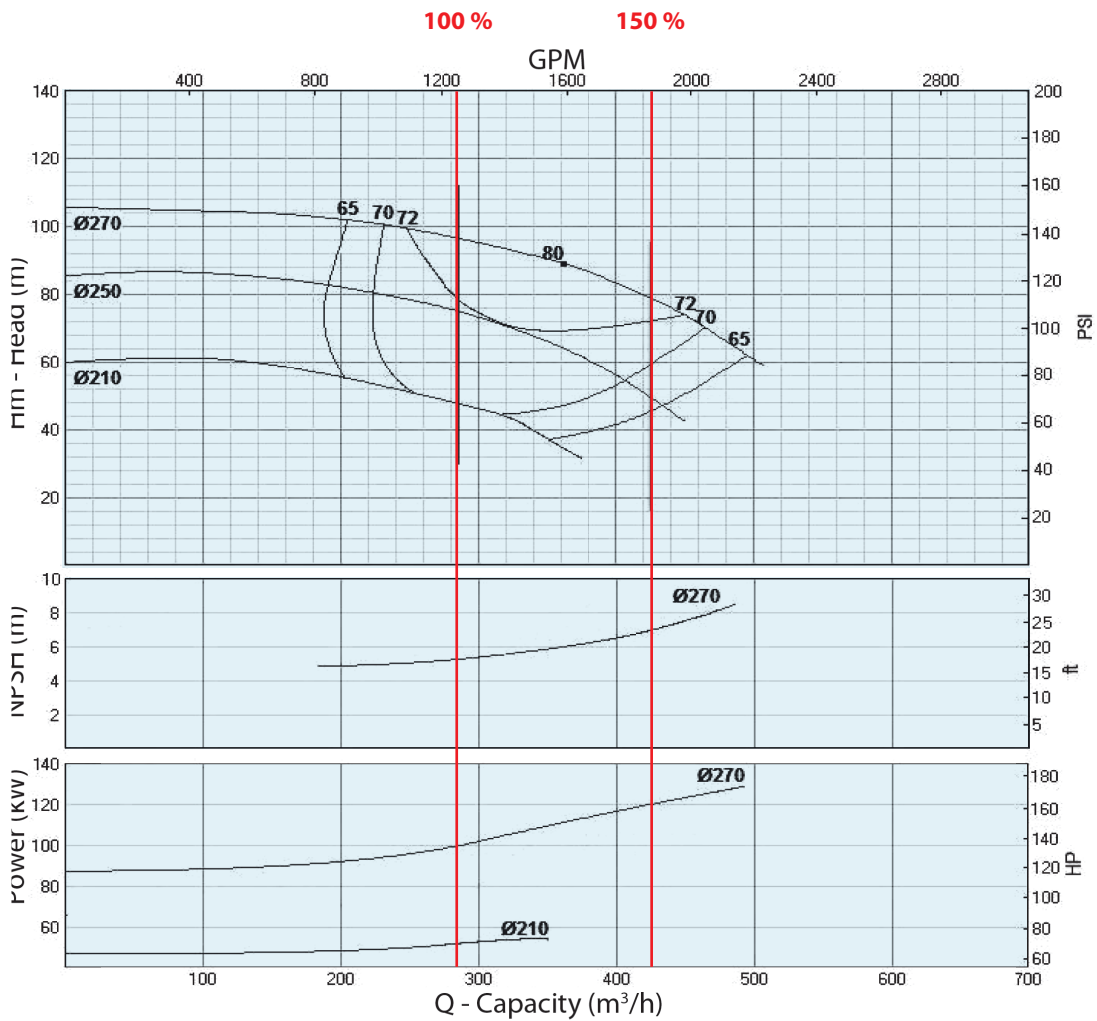
N 100/250 - 1000GPM



Pump performance tests according to TS EN ISO 9906 CLASS 2.

# Approved Fire Pump Sets

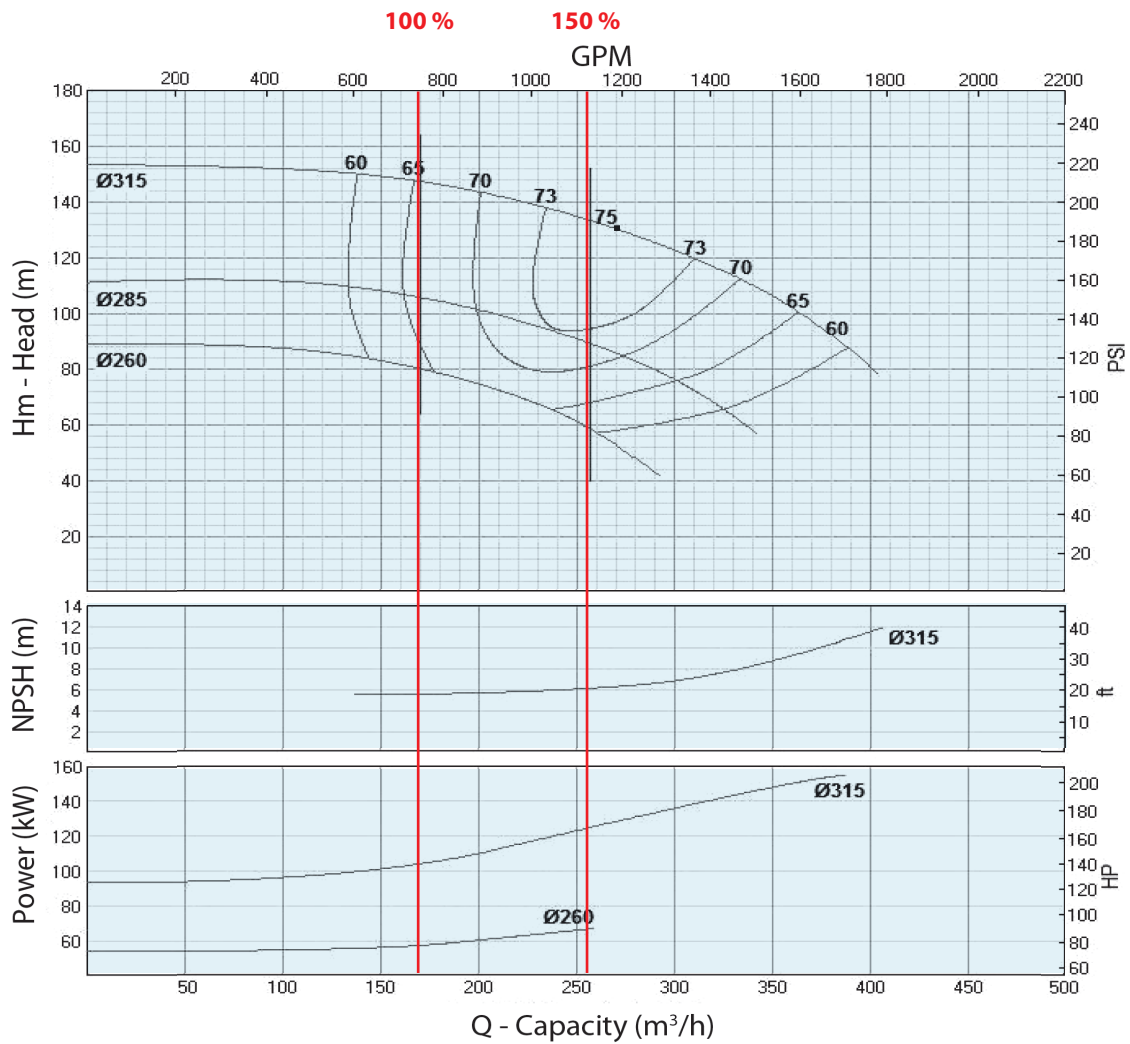
N 100/250 - 1250GPM



Pump performance tests according to TS EN ISO 9906 CLASS 2.

# Approved Fire Pump Sets

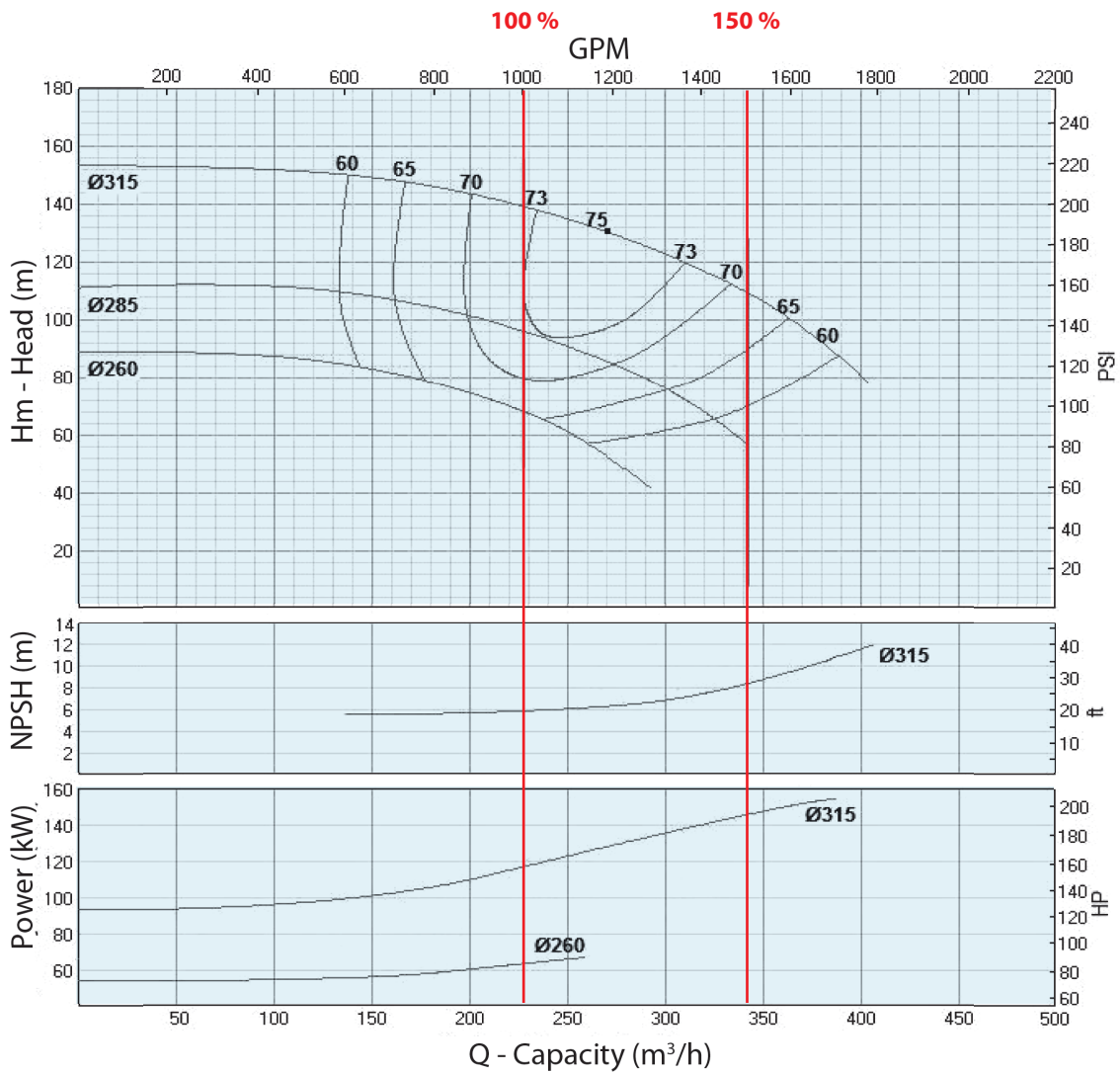
N 100/315 - 750GPM



Pump performance tests according to TS EN ISO 9906 CLASS 2.

# Approved Fire Pump Sets

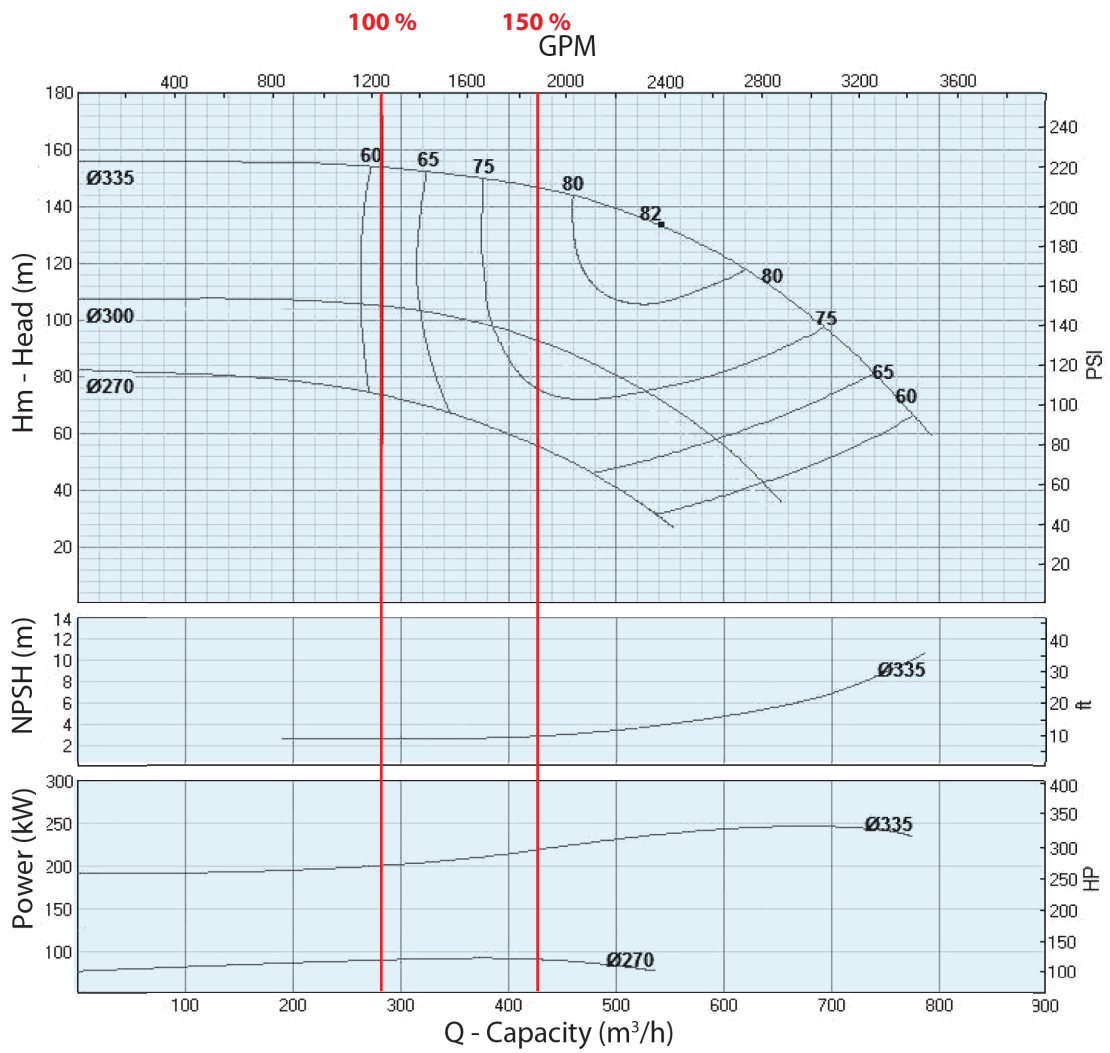
**N 100/315 - 1000GPM**



Pump performance tests according to TS EN ISO 9906 CLASS 2.

# Approved Fire Pump Sets

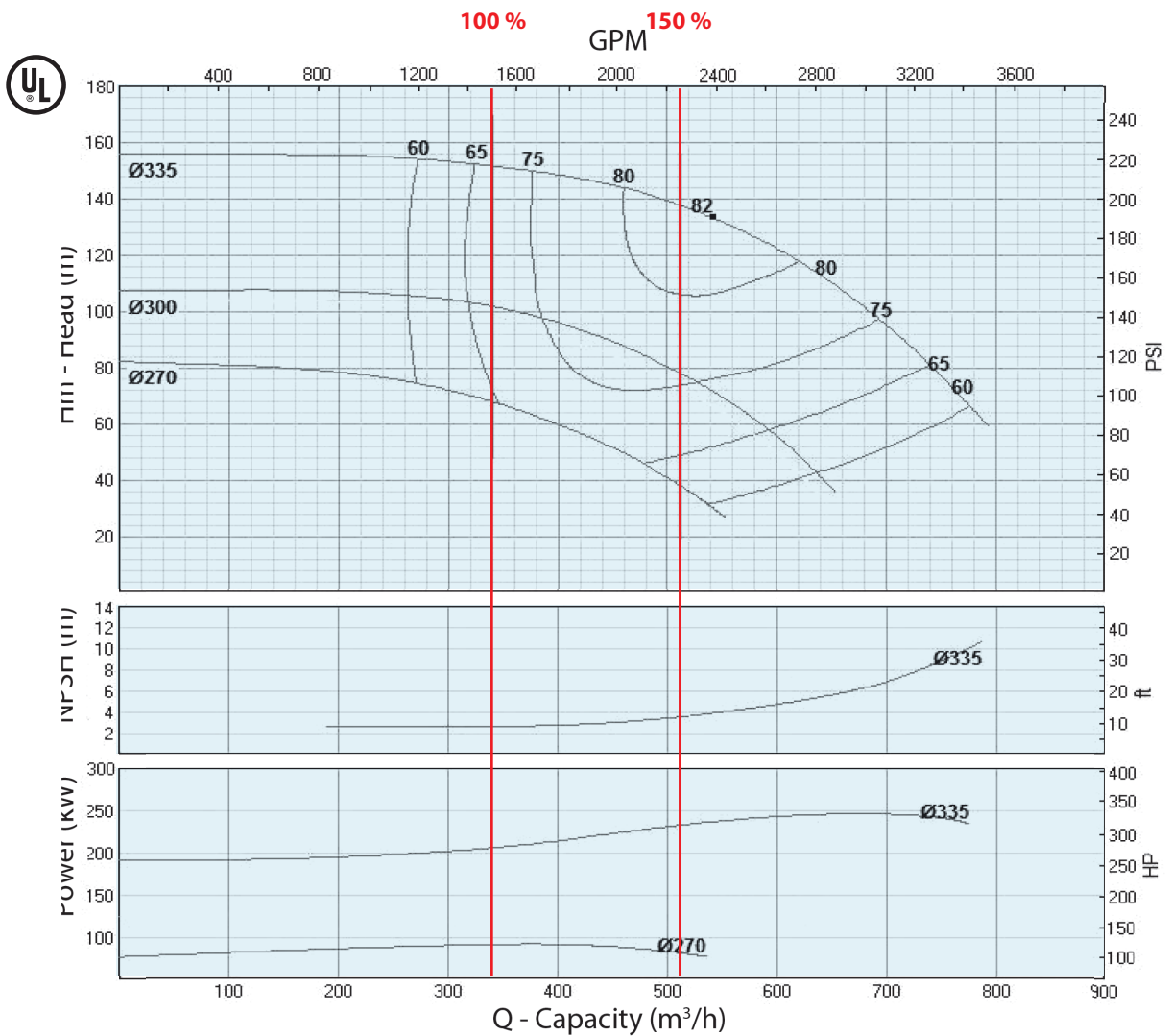
N 125/315 - 1250GPM



Pump performance tests according to TS EN ISO 9906 CLASS 2.

# Approved Fire Pump Sets

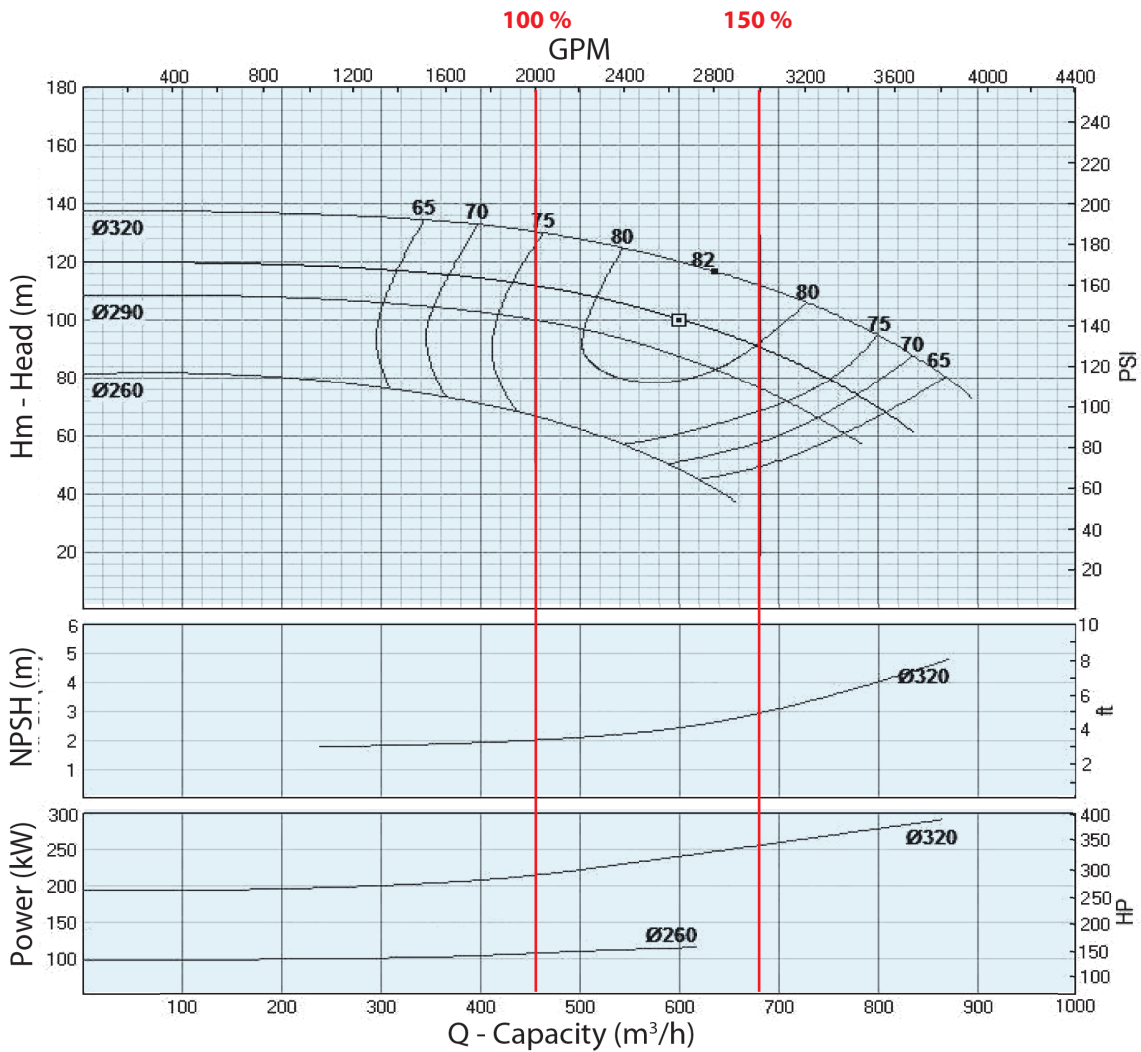
N 125/315 - 1500GPM



Pump performance tests according to TS EN ISO 9906 CLASS 2.

# Approved Fire Pump Sets

N 150/315 - 2000GPM

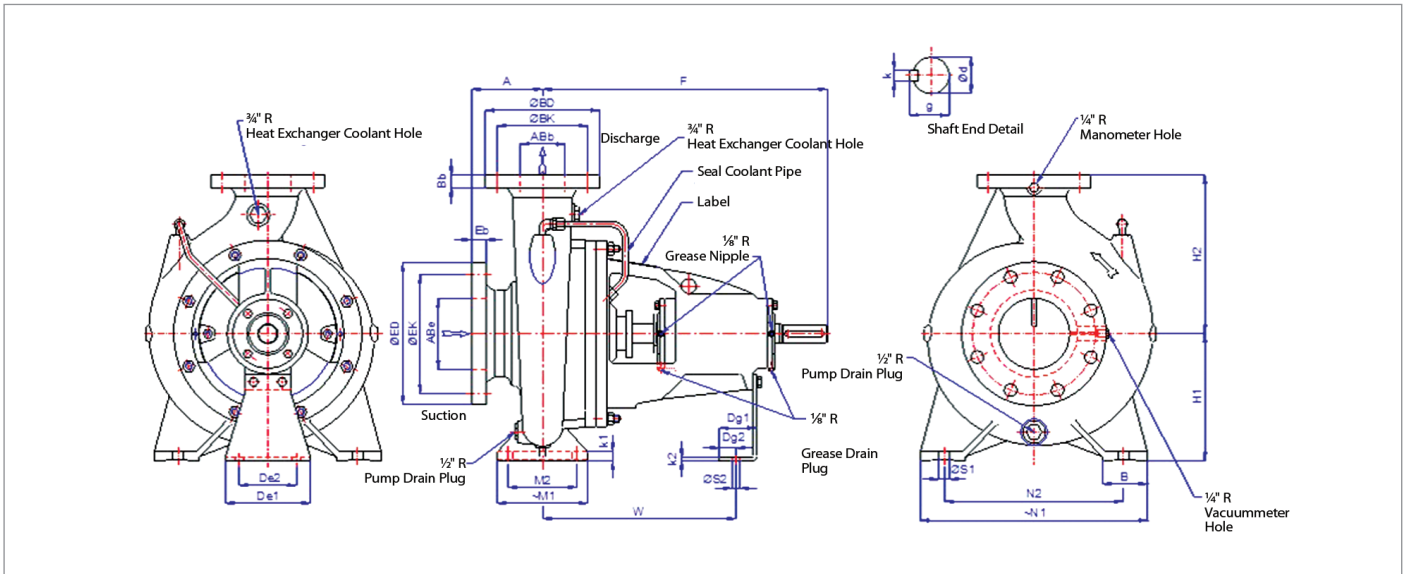


Pump performance tests according to TS EN ISO 9906 CLASS 2.



# Approved Fire Pump Sets

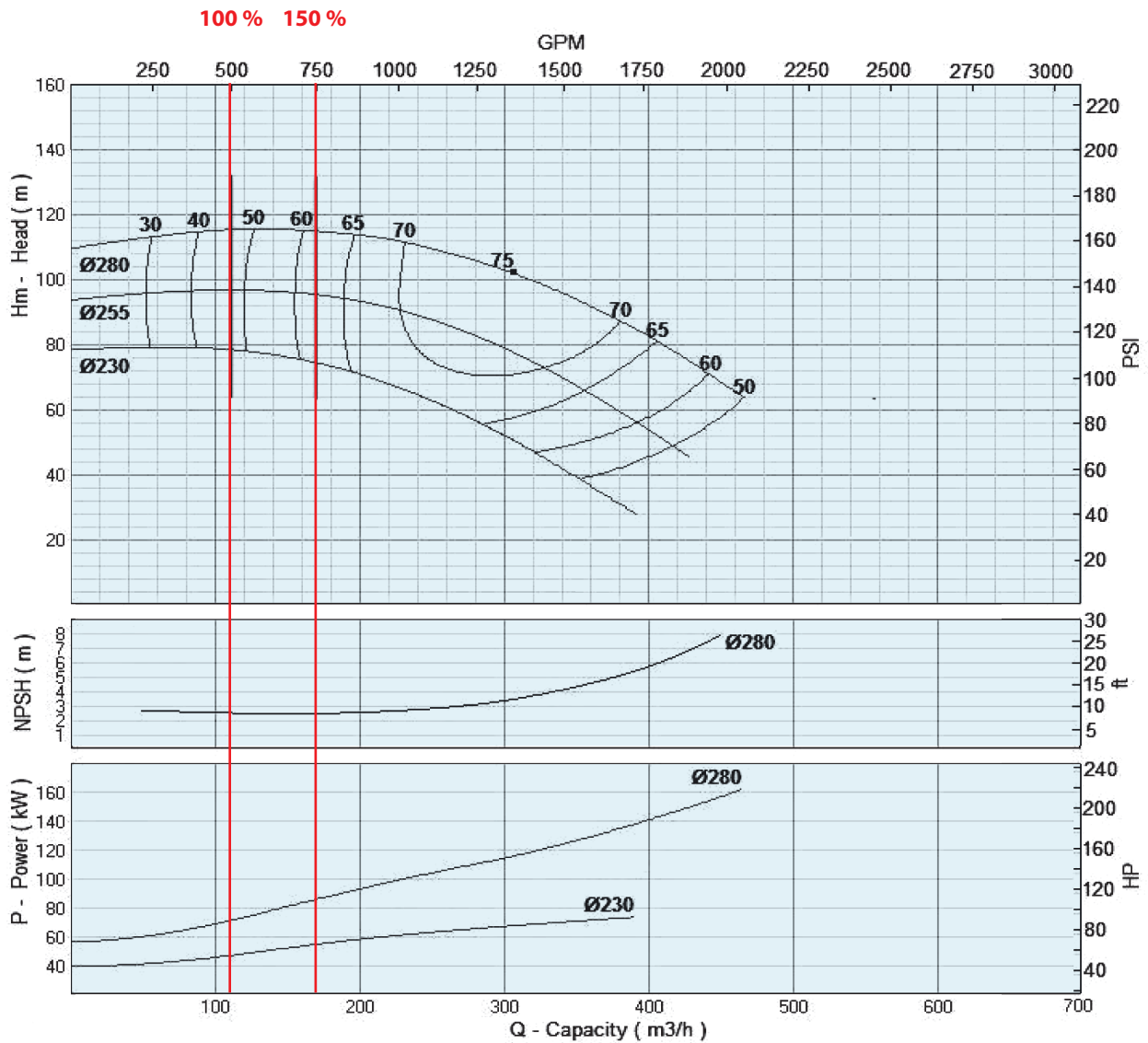
**UL Listed Norm Pumps Dimensions Table**



PUMP MODEL																			Discharge Flange			Suction Flange			End Shaft				
	ABb	ABe	A	F	H1	H2	M1	M2	N1	N2	k1	ØS1	De1	De2	Dg1	Dg2	k2	ØS2	ØBD	ØBK	Hole PiecexØ	Bb	ØED	ØEK	Hole PiecexØ	Eb	Ød	k	g
N 32/250	32	50	100	470	180	225	125	95	320	250	18	12	130	100	65	29	6	14	117	89	4xØ16	13	152,4	120	4xØ20	16	32	10	35
N 50/260	50	80	125	360	180	225	125	95	320	250	18	14	110	80	50	24	6	14	152,4	120	4xØ20	16	190,5	152,4	4xØ20	20	24	8	27
N 65/260	65	100	125	470	200	250	160	120	360	280	18	18	150	100	65	35	6	14	177,8	139,7	4xØ20	20	228,6	190,5	8xØ20	22	32	10	35
N 80/250	80	125	125	500	225	280	160	120	400	315	17	18	150	100	65	35	6	14	190,5	152,4	4xØ20	22	254	215,9	8xØ20	24	32	10	35
N 80/315	80	100	125	525	250	315	160	120	400	315	19	18	150	100	65	29	6	14	190,5	152,4	4xØ20	22	228,6	190,5	8xØ20	22	42	12	45
N 100/250	100	125	140	530	225	280	160	120	400	315	20	18	150	100	65	29	6	14	228,6	190,5	8xØ20	22	254	215,9	8xØ20	24	42	12	45
N 100/315	100	125	140	530	250	315	160	120	400	315	18	18	150	100	65	29	6	14	228,6	190,5	8xØ20	22	254	215,9	8xØ20	24	42	12	45
N 125/315	125	150	140	579	280	355	200	150	500	400	24	23	150	100	65	29	6	14	254	215,9	8xØ20	24	279,4	241,3	8xØ22	24	52	16	56
N 150/315	150	200	160	579	280	400	200	150	550	450	24	23	150	100	65	29	6	14	279,4	241,3	8xØ22	24	342,9	298,45	8xØ22	26	52	16	56

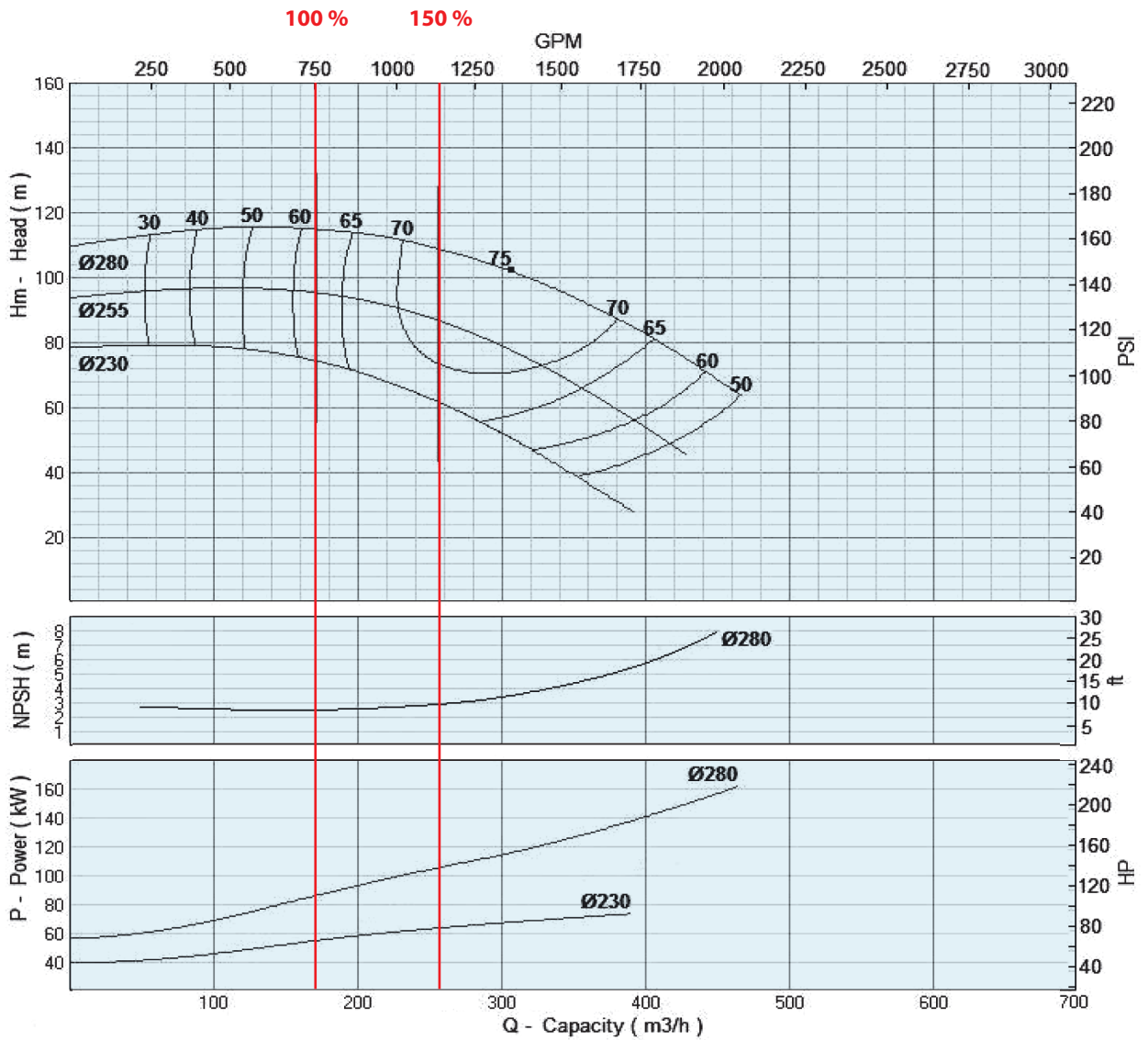
# Approved Fire Pump Sets

SCP 100/250 - 500 GPM



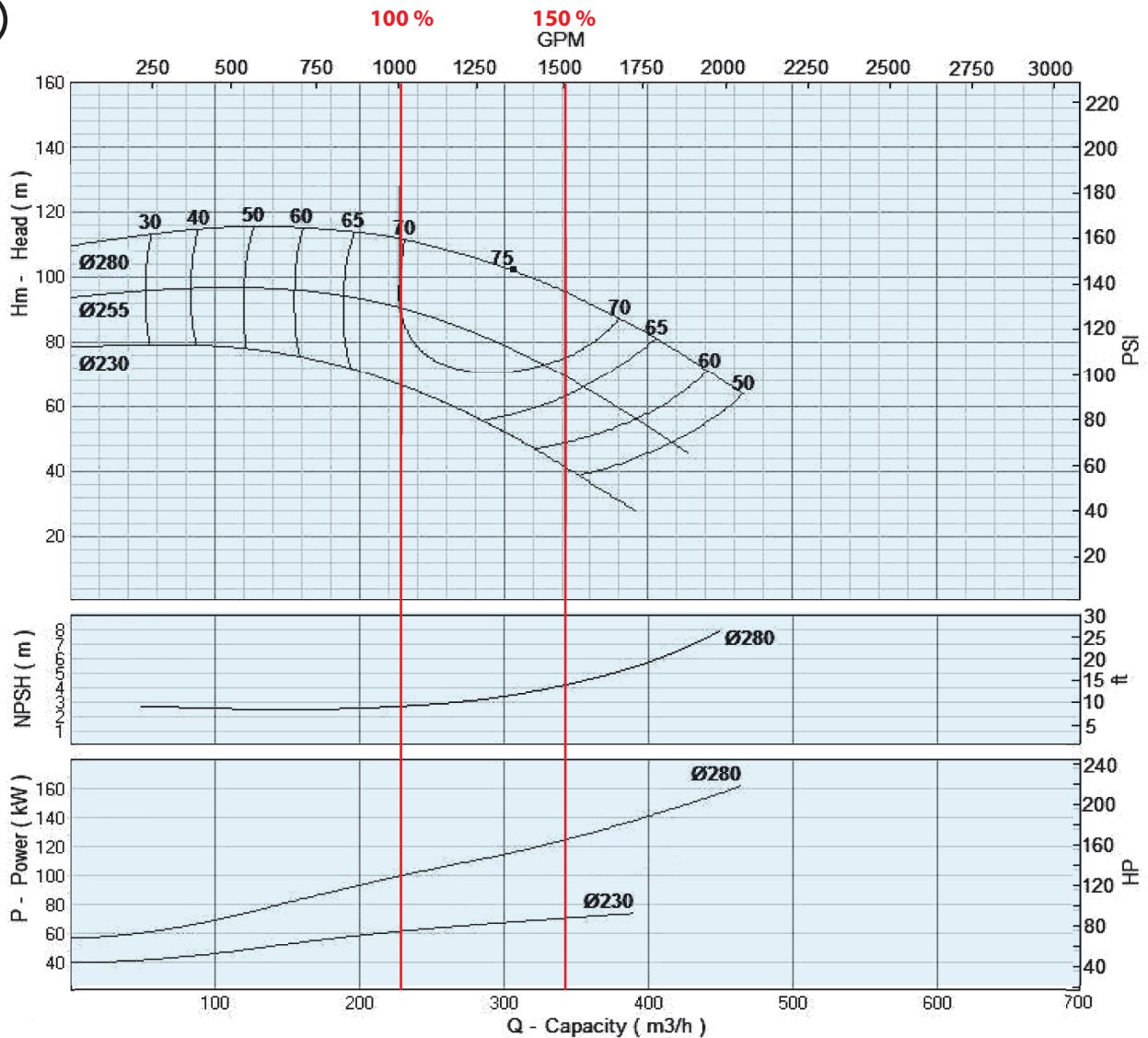
# Approved Fire Pump Sets

SCP 100/250 - 750 GPM



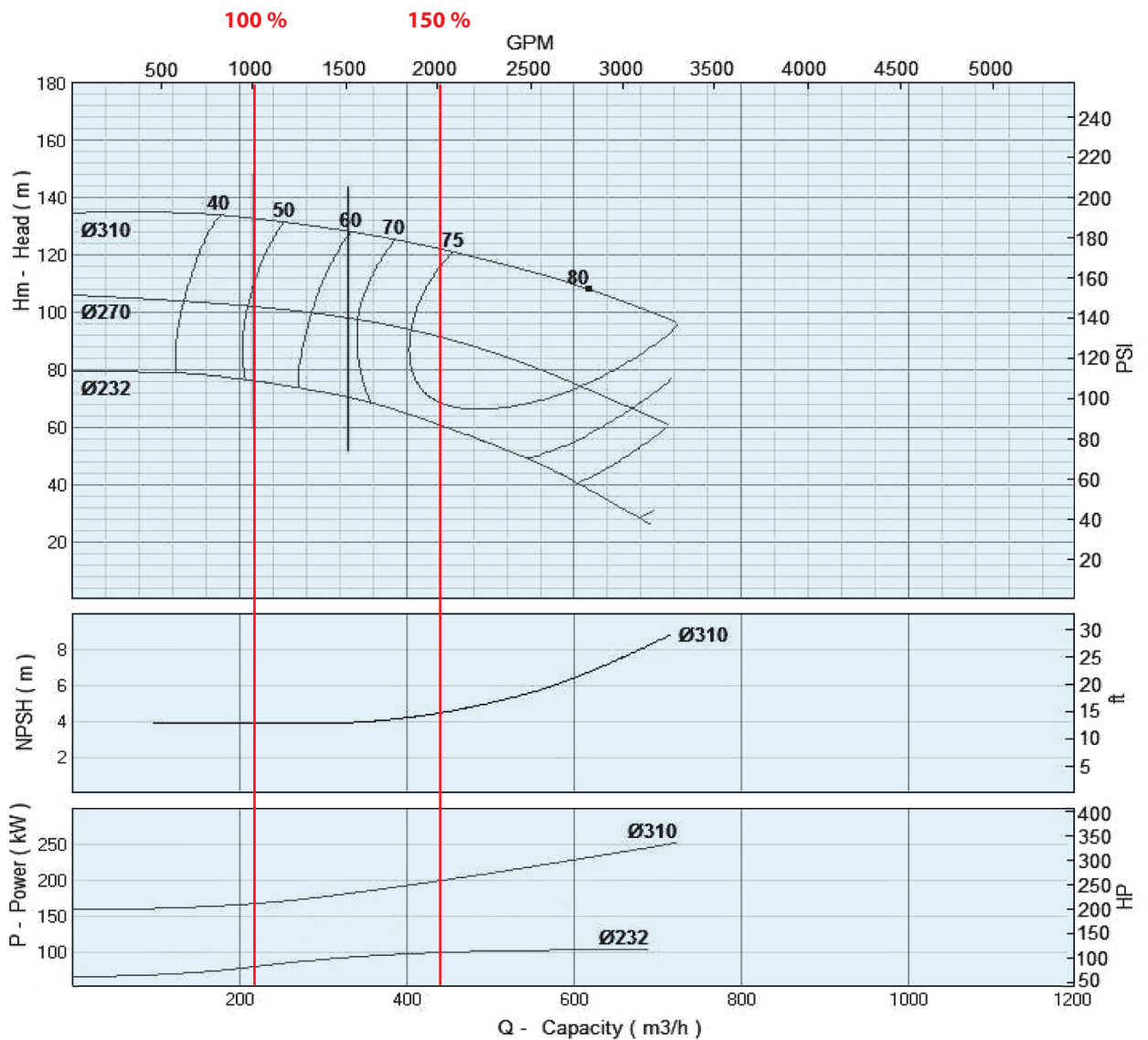
# Approved Fire Pump Sets

SCP 100/250 - 1000 GPM



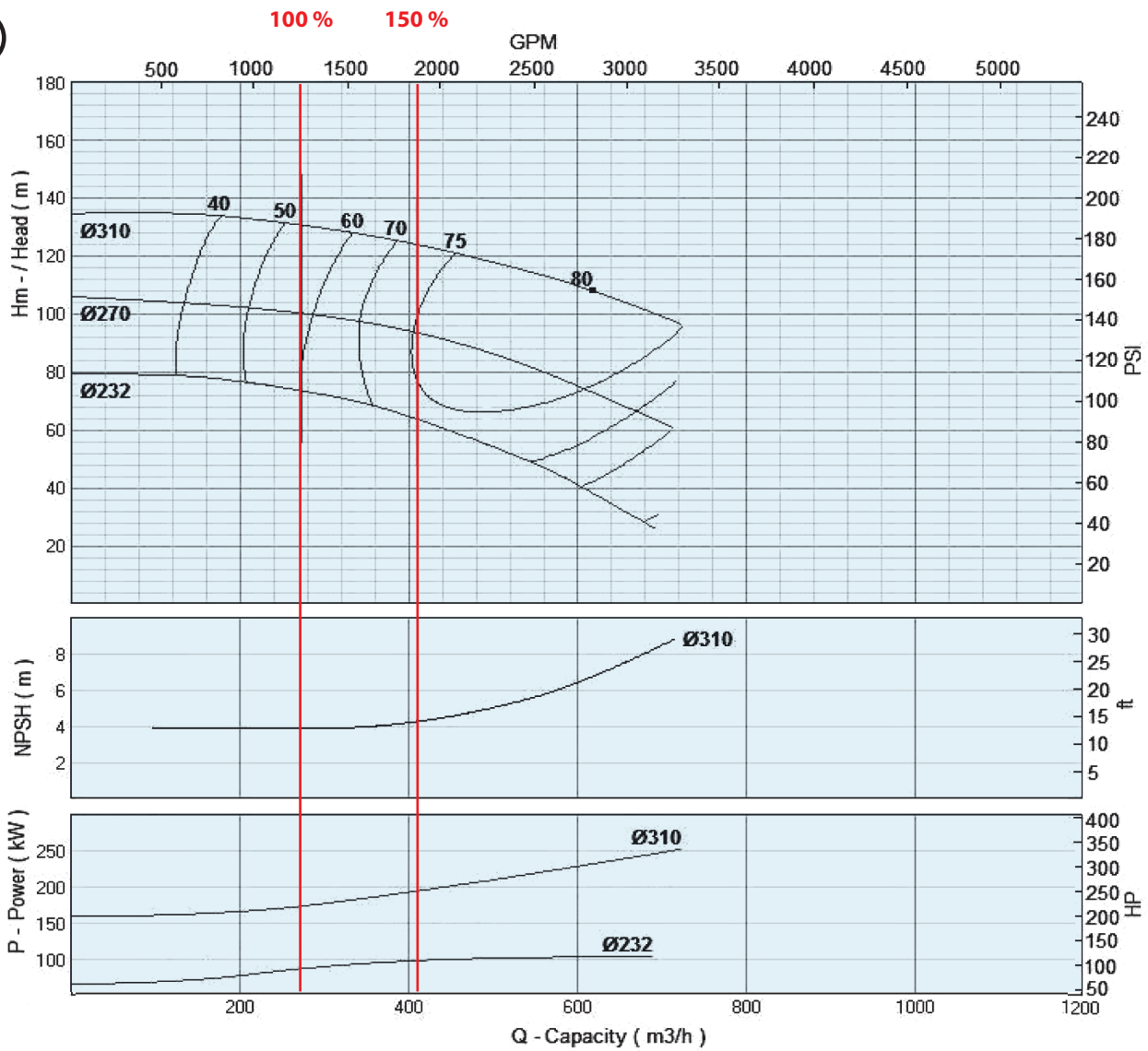
# Approved Fire Pump Sets

SCP 125/300 - 1000 GPM



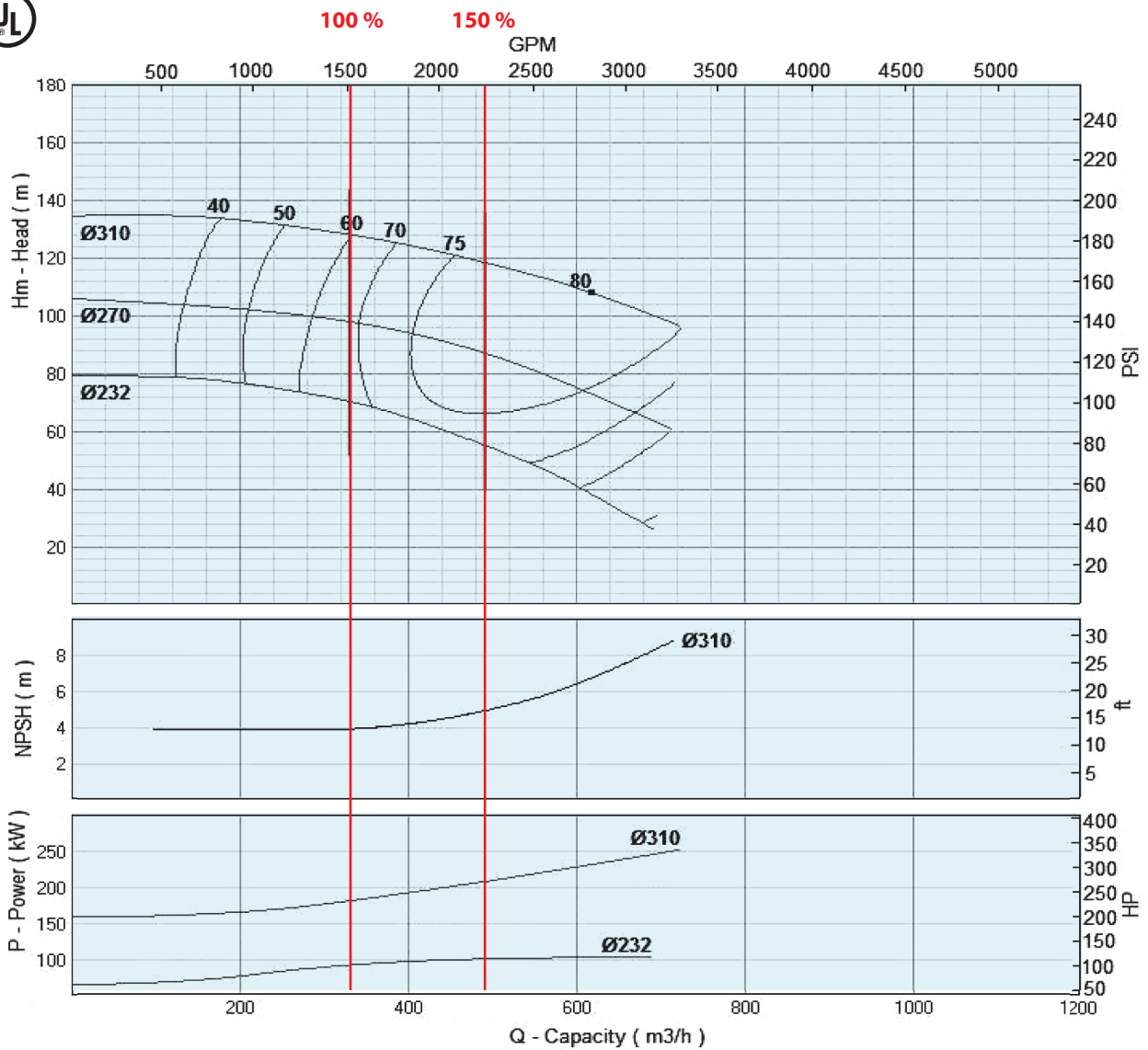
# Approved Fire Pump Sets

SCP 125/300 - 1250 GPM



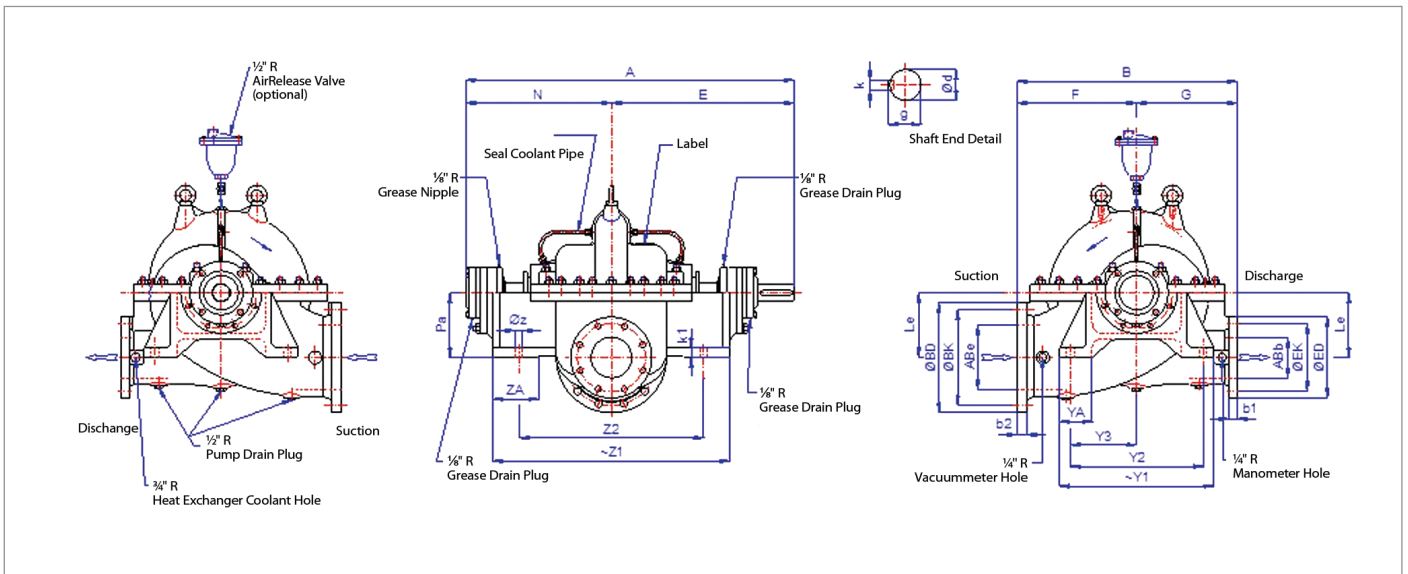
# Approved Fire Pump Sets

SCP 125/300 - 1500 GPM



# Approved Fire Pump Sets

## UL Listed Norm Pumps Dimensions Table



MODEL	ABb	ABe	N	E	A	F	G	B	Pa	Z1	Z2	ZA	Y1	Y2	Y3	YA	k1	Øz	ØBD	ØBK	Piece x Ø	b1	ØED	ØEK	Piece x Ø	b2	Ød	k	g
SCP 100/250	100	150	370	485	855	330	218	548	285	325	285	-	325	225	150	95	16	23	279.4	234.95	8xØ22	26	342.9	298.45	8xØ22	30	42	12	45
SCP 125/300	125	200	450	565	1015	370	310	680	200	730	570	140	475	410	205	100	30	23	279.4	234.95	8xØ22	26	342.9	298.45	8xØ22	30	48	14	51.5



# Approved Fire Pump Sets

## Material List

### End-Suction Pumps

PARTS NO	COMPONENT DESCRIPTION	STANDARD MATERIAL	ALTERNATIVE MATERIAL-1	ALTERNATIVE MATERIAL-2
102	VOLUTE	GGG40	AISI316	DUPLEX
161	STUFFING BOX	GGG40	AISI316	DUPLEX
183	SUPPORT FOOT	SHEET METAL	SHEET METAL	SHEET METAL
210	SHAFT	AISI316	AISI316	DUPLEX
230	IMPELLER	G-CuSn10	AISI316	DUPLEX
330	BEARING FRAME	GG25	GG25	GG25
360	BEARING COVER	GG25	GG25	GG25
452	GLAND	G-CuSn10	G-CuSn10	DUPLEX
458	LANTERN RING	G-CuSn10	G-CuSn10	DUPLEX
502	WEAR RING	G-CuSn10	G-CuSn10	DUPLEX
507	WATER THROWER	RUBBER	RUBBER	RUBBER
524.1	SHAFT SLEEVE	AISI316	AISI316	AISI316
591	GUARD PLATE	STEEL	STEEL	STEEL
922	IMPELLER NUT	AISI316	AISI316	AISI316
970	PUMP LABEL	AISI304	AISI304	AISI304

Explanation:

Standard Material: It is the list of standard materials.

Alternative Material-1 and Alternative Material-2: It is the optional material list.

### Split-Case Pumps

PARTS NO	COMPONENT DESCRIPTION	STANDARD MATERIAL	ALTERNATIVE MATERIAL-1	ALTERNATIVE MATERIAL-2
102.1	CASING	GGG40	AISI316	DUPLEX
102.2	COVER	GGG40	AISI316	DUPLEX
210	SHAFT	AISI316	AISI316	DUPLEX
225.1	BEARING RING_INTERNAL	GG25	GG25	GG25
225.2	BEARING RING_EXTERNAL	GG25	GG25	GG25
234	IMPELLER	G-CuSn10	AISI316	DUPLEX
340.1	BEARING HOUSING	GG25	GG25	GG25
360.1	BEARING COVER-MOTOR SIDE	GG25	GG25	GG25
360.2	BEARING COVER-CLOSED SIDE	GG25	GG25	GG25
360.3	BEARING COVER-INSIDE	GG25	GG25	GG25
452	GLAND	G-CuSn10	G-CuSn10	DUPLEX
458	LANTERN RING	G-CuSn10	G-CuSn10	DUPLEX
502	WEAR RING	G-CuSn10	G-CuSn10	DUPLEX
507	WATER THROWER	RUBBER	RUBBER	RUBBER
526	SHAFT SLEEVE	AISI316	AISI316	AISI316
542	STUFFING BOX BUSHING	GGG40	AISI316	DUPLEX
560	CENTERING TAPER PIN	AISI304	AISI304	AISI304
591	GUARD PLATE	STEEL	STEEL	STEEL
970	PUMP LABEL	AISI304	AISI304	AISI304

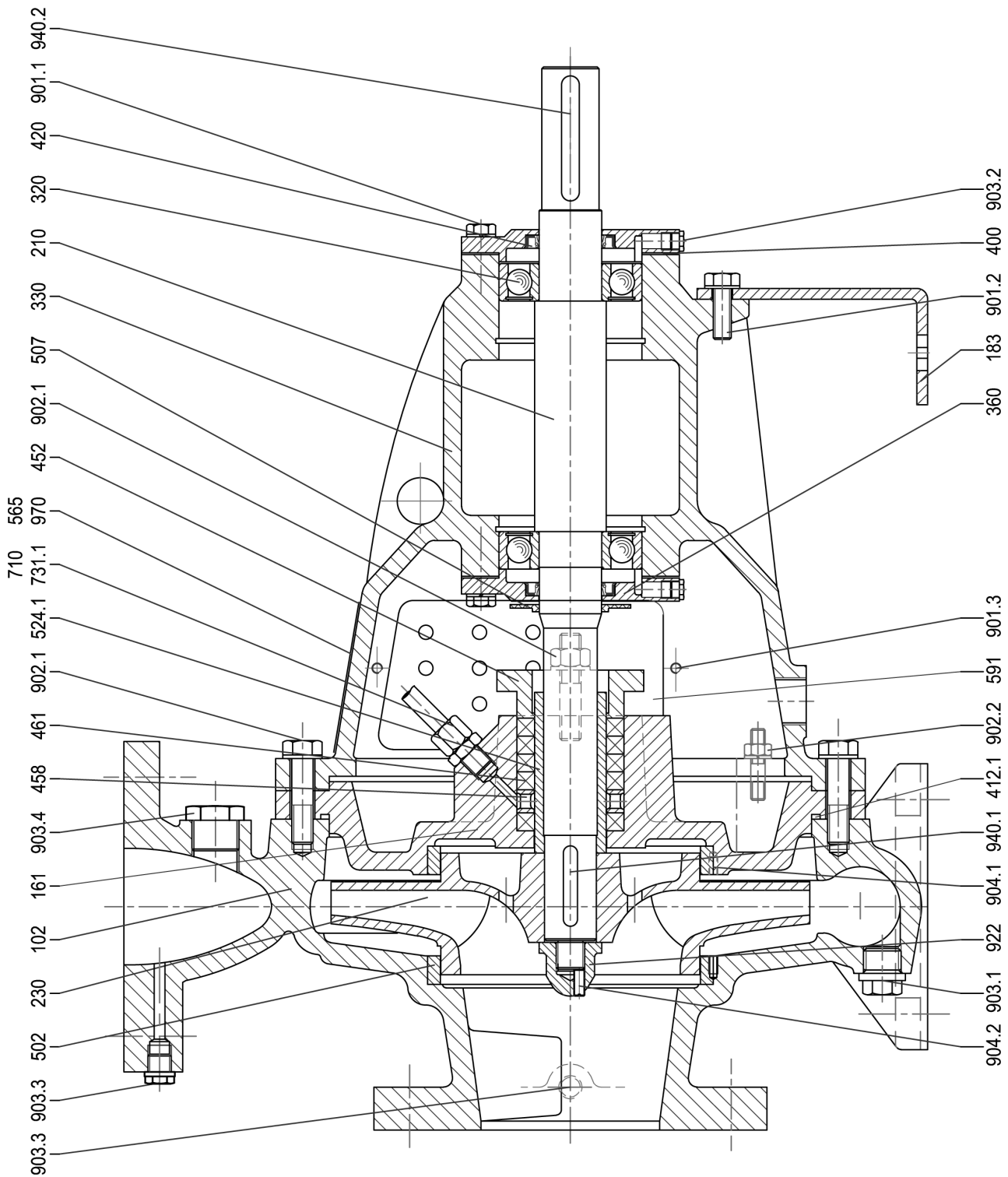
Explanation:

Standard Material : It is the standart materials.

Alternative Material-1 and Alternative Material-2: It is the optional material list.

# Approved Fire Pump Sets

## Sectional Drawing of End-Suction Pumps



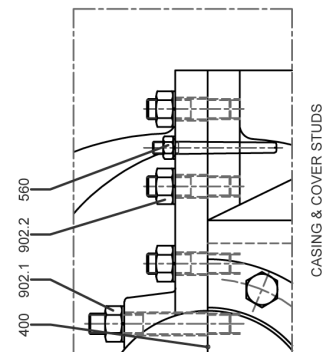
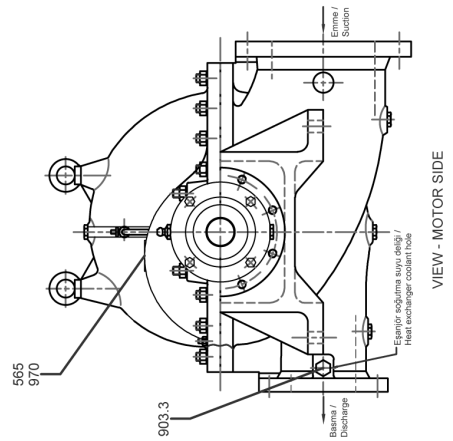
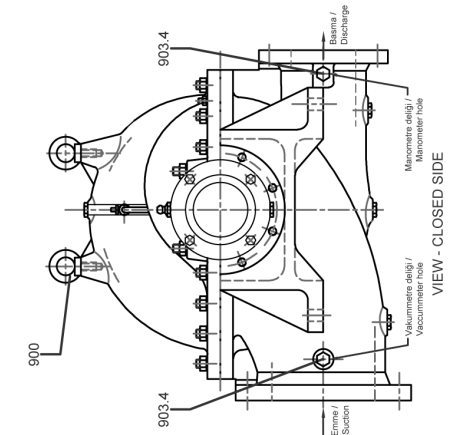
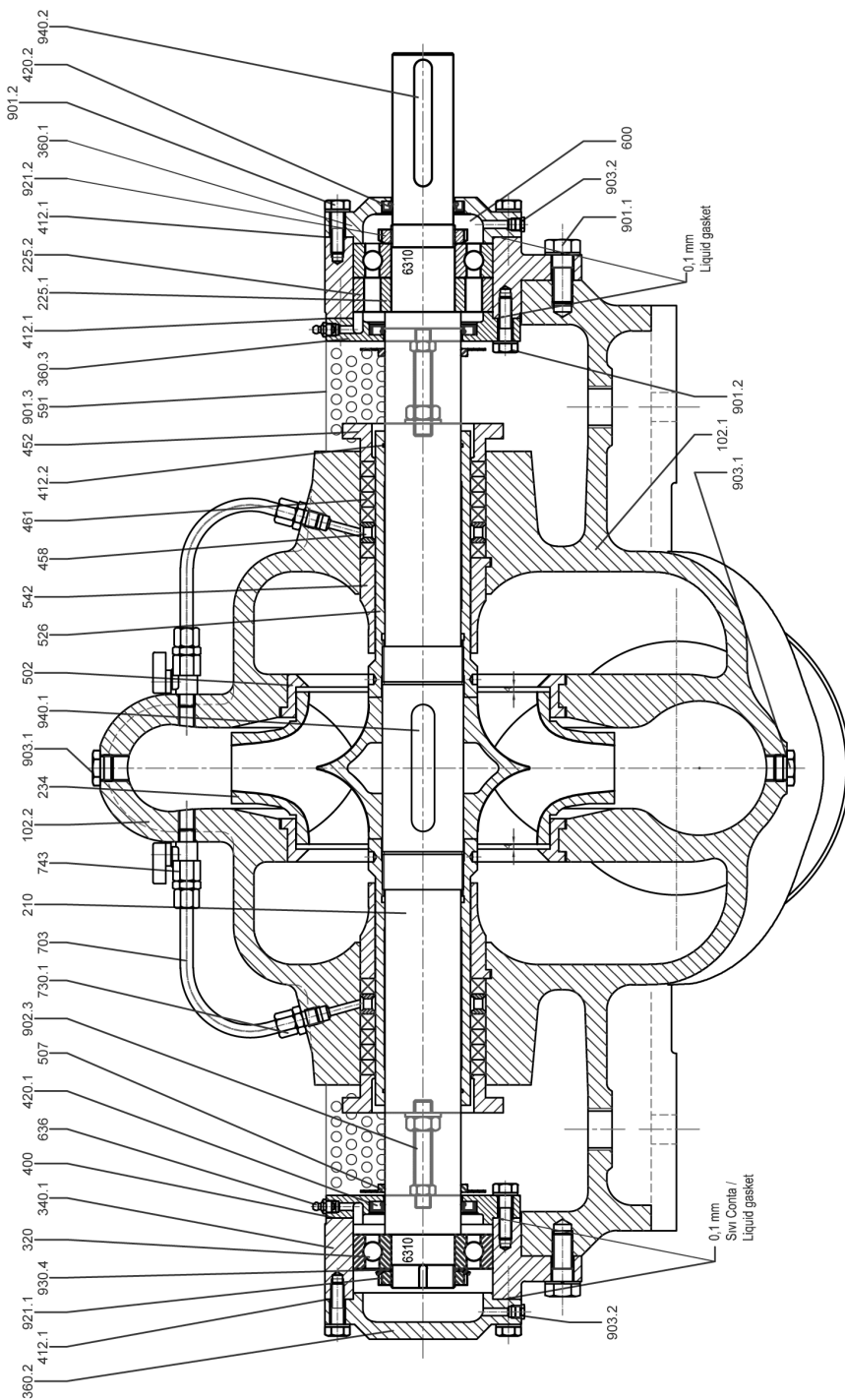
# Approved Fire Pump Sets

## Sectional Drawing of End-Suction Pumps

Part No	Part Name
102	Volute
161	Stuffing Box
183	Support Foot
210	Shaft
230	Impeller
320	Bearing
330	Bearing Frame
360	Bearing Cover
400	Bearing Cover Gasket
412.1	O-Ring
420	Oil Seal
452	Gland
458	Lantern Ring
461	Packing Seal
502	Wear Ring
507	Water Thrower
524.1	Shaft Sleeve
565	Rivet
591	Guard Plate
636	Grease Nipple
710	Pipe
731.1	Nipple
731.2	Elbow
901.1	Bolt
901.2	Bolt
901.3	Bolt
901.4	Bolt
902.1	Stud
902.2	Stud
904.1	Plug
903.1	Plug
903.2	Plug
903.3	Plug
903.4	Plug
904.1	Setscrew
904.2	Setscrew
940.1	Key
940.2	Key
970	Pump Label

# Approved Fire Pump Sets

## Sectional Drawing of Split-Case Pumps



# Approved Fire Pump Sets

## Sectional Drawing of Split-Case Pumps

Part No	Part Name
102.1	Casing
102.2	Cover
210	Shaft
225.1	Bearing Ring-Inner
225.2	Bearing Ring-External
234	Impeller
320	Bearing
340.1	Bearing Housing
360.1	Bearing Cover-Motor side
360.2	Bearing Cover-Closed side
360.3	Bearing Cover-Inside
400	O-Ring
412.1	Liquid Gasket
412.2	O-Ring
420.1	Oil Seal
420.2	Oil Seal
452	Gland
458	Lantern Ring
461	Packing Seal
502	Wear Ring
507	Water Thrower
526	Shaft Sleeve
542	Stuffing Box Bushing
560	Centering taper pin
565	Rivet
591	Guard Plate
636	Grease Nipple
703	Pipe
730.1	Nipple
743	Globe Valve
900	Lifting Eye
901.1	Bolt
901.2	Bolt
901.3	Bolt
902.1	Stud
902.2	Stud
902.3	Stud
903.1	Plug
903.2	Plug
903.3	Plug
903.4	Plug
921.1	Nut KM
921.2	Nut KM
930.4	Washer MB
940.1	Key
940.2	Key
970	Pump Label

# Approved Fire Pump Sets

## DJ-XVM Jockey Pump Systems for 3000 RPM

Rated Capacity (m <sup>3</sup> /h)	Rated Net Pressure Range (Hm)	System Model	Motor Power (kW)
2,5	65/80	DJ-XVM 3-13/1,1	1,1
2,5	70/85	DJ-XVM 3-15/1,1	1,1
2,5	75/90	DJ-XVM 3-15/1,1	1,1
2,5	80/95	DJ-XVM 3-17/1,5	1,5
2,5	85/100	DJ-XVM 3-17/1,5	1,5
2,5	90/105	DJ-XVM 3-19/1,5	1,5
2,5	95/110	DJ-XVM 3-19/1,5	1,5
2,5	100/115	DJ-XVM 3-21/2,2	2,2
2,5	105/120	DJ-XVM 3-21/2,2	2,2
2,5	110/125	DJ-XVM 3-23/2,2	2,2
2,5	115/130	DJ-XVM 3-23/2,2	2,2
2,5	120/135	DJ-XVM 3-25/2,2	2,2
2,5	125/140	DJ-XVM 3-25/2,2	2,2
2,5	130/145	DJ-XVM 3-27/2,2	2,2
2,5	135/150	DJ-XVM 3-27/2,2	2,2
2,5	140/155	DJ-XVM 3-29/2,2	2,2
2,5	145/160	DJ-XVM 3-29/2,2	2,2
2,5	150/165	DJ-XVM 3-31/3	3
2,5	155/170	DJ-XVM 3-31/3	3
2,5	160/175	DJ-XVM 3-33/3	3
5	65/80	DJ-XVM 5-13/2,2	2,2
5	70/85	DJ-XVM 5-14/2,2	2,2
5	75/90	DJ-XVM 5-15/2,2	2,2
5	80/95	DJ-XVM 5-15/2,2	2,2
5	85/100	DJ-XVM 5-16/2,2	2,2
5	90/105	DJ-XVM 5-18/3	3
5	95/110	DJ-XVM 5-18/3	3
5	100/115	DJ-XVM 5-20/3	3
5	105/120	DJ-XVM 5-20/3	3
5	110/125	DJ-XVM 5-22/4	4
5	115/130	DJ-XVM 5-22/4	4
5	120/135	DJ-XVM 5-24/4	4
5	125/140	DJ-XVM 5-24/4	4
5	130/145	DJ-XVM 5-26/4	4
5	135/150	DJ-XVM 5-26/4	4
5	140/155	DJ-XVM 5-29/4	4
5	145/160	DJ-XVM 5-29/4	4
5	150/165	DJ-XVM 5-29/4	4
5	155/170	DJ-XVM 5-29/4	4
5	160/175	DJ-XVM 5-33/5,5	5,5

# Approved Fire Pump Sets

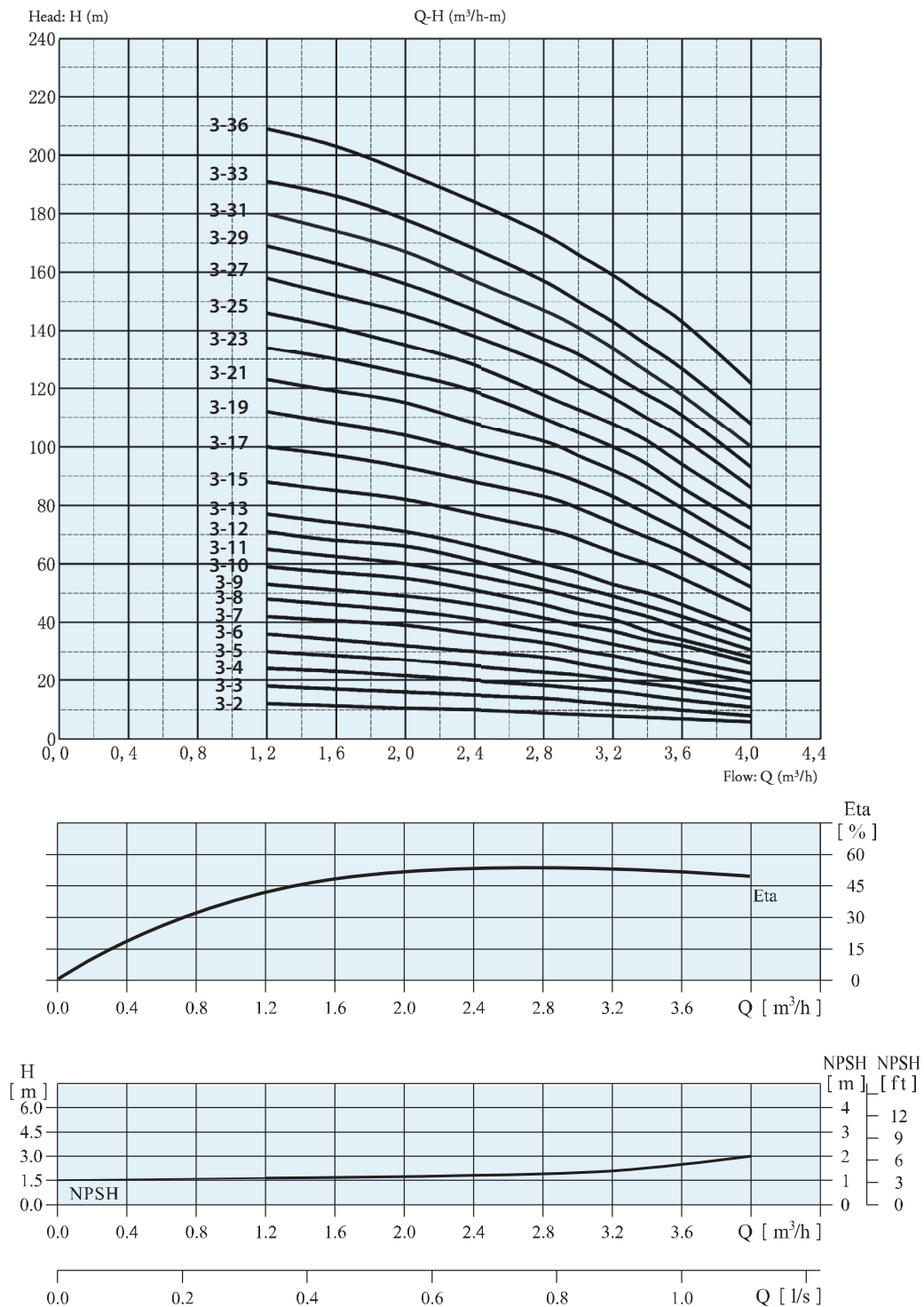
## DJ-XVM Jockey Pump Systems for 3000 RPM

10	65/80	DJ-XVM 10-9/3	3
10	70/85	DJ-XVM 10-9/3	3
10	75/90	DJ-XVM 10-10/4	4
10	80/95	DJ-XVM 10-10/4	4
10	85/100	DJ-XVM 10-12/4	4
10	90/105	DJ-XVM 10-12/4	4
10	95/110	DJ-XVM 10-12/4	4
10	100/115	DJ-XVM 10-14/5,5	5,5
10	105/120	DJ-XVM 10-14/5,5	5,5
10	110/125	DJ-XVM 10-14/5,5	5,5
10	115/130	DJ-XVM 10-16/5,5	5,5
10	120/135	DJ-XVM 10-16/5,5	5,5
10	125/140	DJ-XVM 10-16/5,5	5,5
10	130/145	DJ-XVM 10-18/7,5	7,5
10	135/150	DJ-XVM 10-18/7,5	7,5
10	140/155	DJ-XVM 10-18/7,5	7,5
10	145/160	DJ-XVM 10-20/7,5	7,5
10	150/165	DJ-XVM 10-20/7,5	7,5
10	155/170	DJ-XVM 10-20/7,5	7,5
10	160/175	DJ-XVM 10-20/7,5	7,5

# Approved Fire Pump Sets

XVM 3

ISO9906 Annex A 2900 rpm

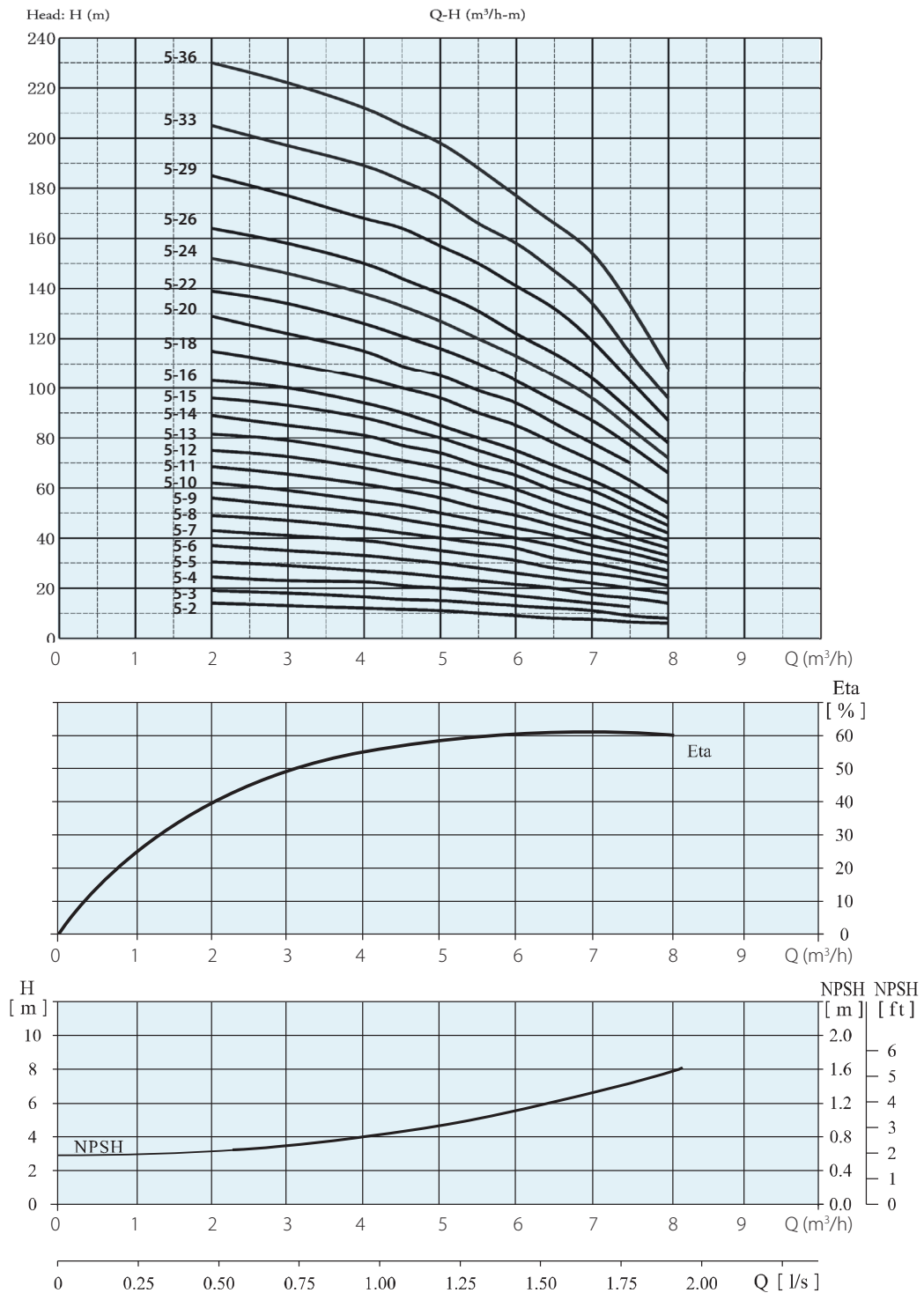




# Approved Fire Pump Sets

XVM 5

ISO9906 Annex A 2900rpm



# Approved Fire Pump Sets

XVM 10

ISO9906 Annex A 2900rpm

