

# SCR, SCRI, SCR N VERTICAL MULTISTAGE CENTRIFUGAL PUMPS



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## PRODUCT DATA

### VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

#### INTRODUCTION



#### FEATURES AND BENEFITS

1. High efficiency
2. Reliability
3. Service friendly
4. Space – saving
5. Suitable for slightly aggressive liquids

#### APPLICATIONS

1. Washing system
2. Cooling and air conditioning system
3. Water treatment system
4. Fire fighting system
5. Industrial plants
6. Boiler feeding systems

#### TECHNICAL DATA

Flow 'Ø'	Max 180m <sup>3</sup> /h
Head "H"	Max 230m
Liquid Temperature	-40 °C to +180 °C

**SHAKTI SCR, SCRI, SCRN** pump is a non – self priming, vertical multistage centrifugal pump.

The in – line design enables the pump to be installed in a horizontal one – pipe system where the suction and discharge ports are in the same horizontal plane and have the same pipe dimensions. This design provides a more compact pump design and pipe work.

**SHAKTI SCR, SCRI, SCRN** pumps come with various pump sizes and various numbers of stages to provide the flow and the pressure required.

**SHAKTI SCR, SCRI, SCRN** pumps are suitable for a variety of applications from pumping of potable water to pumping of chemicals. The pumps are therefore used in a wide diversity of pumping systems where the performance and material of the pump meet specific demands.

The pump unit consists of optimized hydraulics, various types of connections, an outer sleeve, a top and various other parts. **SHAKTI SCR, SCRI, SCRN** pumps are available in various material versions according to the pumped liquid.

## PRODUCT DATA

### VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

APPLICATIONS	SCR, SCRI	SCRN
<b>WATER SUPPLY</b>		
Filtration & transfer at waterworks	◆	◇
Distribution from waterwork	◆	◇
Pressure boosting in mains	◆	◇
Pressure boosting in high-rise building, hotels, hospitals etc.	◆	◇
Pressure boosting for industrial water supply	◆	◇
<b>INDUSTRY</b>		
<u>Pressure Boosting In-</u>		
Process water system	◆	◆
Washing & cleaning system	◆	◆
Vehicle washing tunnel	◆	◇
Fire fighting tunnel	◆	
<u>Liquid Transfer In-</u>		
Cooling & air-conditioning	◆	◇
Boiler feed & condensate system	◆	◇
Machine tool	◆	◆
Aqua farming	◆	◇
<u>Transfer Of-</u>		
Oils & alcohols	◆	◆
Acids & alkalis		◆
Glycol & coolents	◆	
<b>WATER TREATMENT</b>		
Ultra-filtration system		◆
Reverse osmosis system		◆
Softening ionising		◆
Distillation system		◆
Separators	◆	◆
Swimming baths		◆
<b>IRRIGATION</b>		
Field irrigation	◆	◇
Sprinkler irrigation	◆	◇
Drip-feed irrigation	◆	◇

◆ Recommended version

◇ Alternative version

## PRODUCT RANGE

### VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

#### PRODUCT RANGE

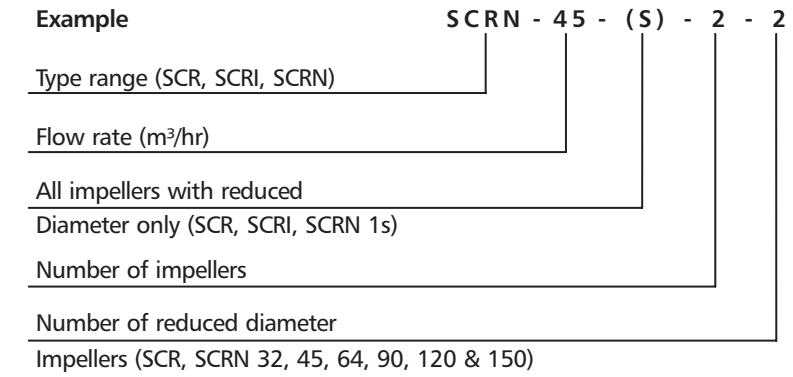
Range	SCR, SCRI, SCRN 1s	SCR, SCRI, SCRN 1	SCR, SCRI, SCRN 3	SCR, SCRI, SCRN 5	SCR, SCRI, SCRN 10	SCR, SCRI, SCRN 15	SCR, SCRI, SCRN 20	SCR, SCRN 32	SCR, SCRN 45	SCR, SCRN 64	SCR, SCRN 90	SCR, SCRN 120	SCR, SCRN 150
Nominal flow rate (m <sup>3</sup> /h)	1	1.2	3.6	6	12	18	24	38	54	77	108	140	180
Temperature range (°C)	-30 to +120 °C												
Temperature range (°C) - on request	-40 to +180 °C											-	-
Max pump efficiency (%)	35	49	59	67	70	72	72	76	78	79	80	74	70
Flow rate (m <sup>3</sup> /h)	0.4 - 1.3	0.8 - 2.9	1.4 - 5.4	3 - 10.2	6 - 16	10 - 29	13 - 35	18 - 48	26 - 70	36 - 102	54 - 146	60 - 160	75 - 180
Motor power (kW)	0.37-1.1	0.37-3	0.37-4	0.55-5.5	0.75-11	1.5-18.5	2.2-18.5	2.2-30	5.5-45	7.5-45	11-45	11-75	11-75
Max pressure (bar)	23	24	24	24	25	24	21	27	26	18	16	19	16
High pressure (bar) - On request	-	48	42	48	47	47	47	40	40	36	33	37	31
Flange	DN 25/32	DN 25/32	DN 25/32	DN 25/32	DN 40	DN 50	DN 50	DN 65	DN 80	DN 100	DN 100	DN 125	DN 125

#### PERFORMANCE RANGE OF SCR, SCRI, SCRN

## TYPE OF KEYS & CONSTRUCTION

### VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

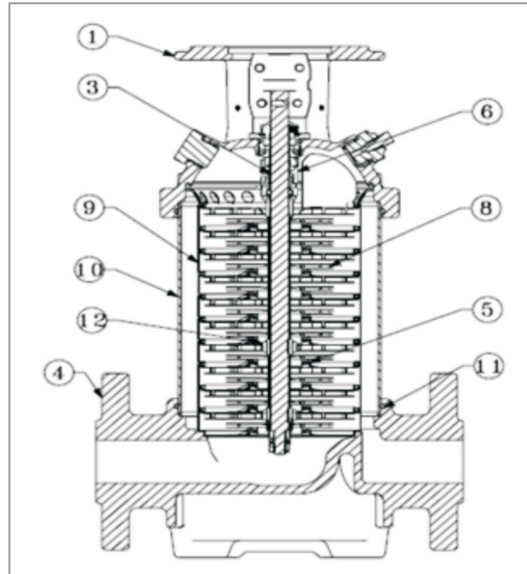
#### TYPE KEYS SCR, SCRI, SCRN



## TYPE OF KEYS & CONSTRUCTION

### VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

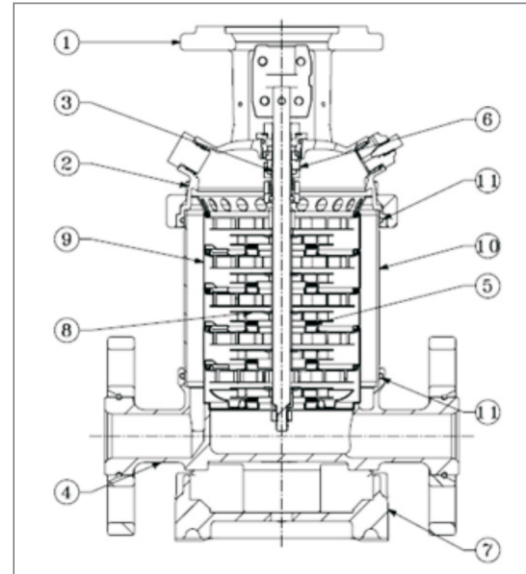
**Sectional drawing SCR**  
1s, 3, 5, 10, 15 & 20



#### Materials SCR

Pos	Designation	Material
1	Pump head	Cast iron
3	Pump shaft	Duplex
4	Pump base	Cast iron
5	Neck ring	PTFE
6	Mech. Seal	
8	Impeller	SS 304
9	Chamber	SS 304
10	Outer sleeve	SS 304
11	O-ring	EPDM/FKM
12	Chamber bush	PTFE

**Sectional drawing SCRI, SCRN**  
1s, 3, 5, 10, 15 & 20



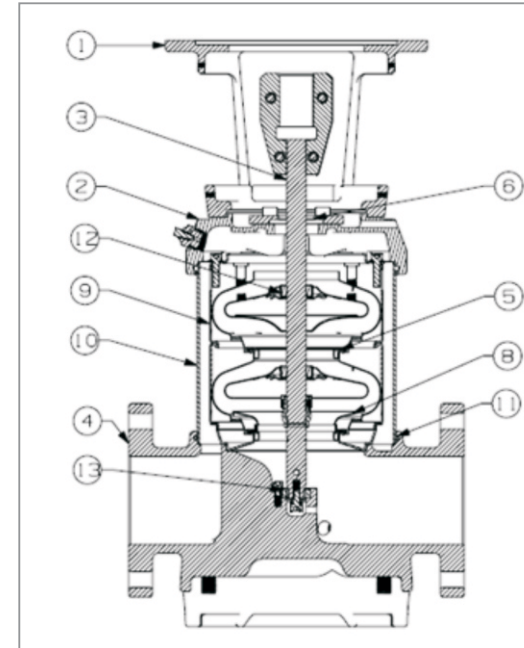
#### Materials SCRI, SCRN

Pos	Designation	Material SCRI	Material SCRN
1	Pump head	Cast iron	
2	Pump head cover	SS 304	SS 316
3	Pump shaft	Duplex	Duplex
4	Pump base	Cast iron	SS 316
5	Neck ring	PTFE	
6	Mech. Seal	Cartridge type	
7	Base plate	Cast iron	
8	Impeller	SS 304	AISI 316
9	Chamber	SS 304	AISI 316
10	Outer sleeve	SS 304	AISI 316
11	O-ring	EPDM/FKM	

## TYPE OF KEYS & CONSTRUCTION

### VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

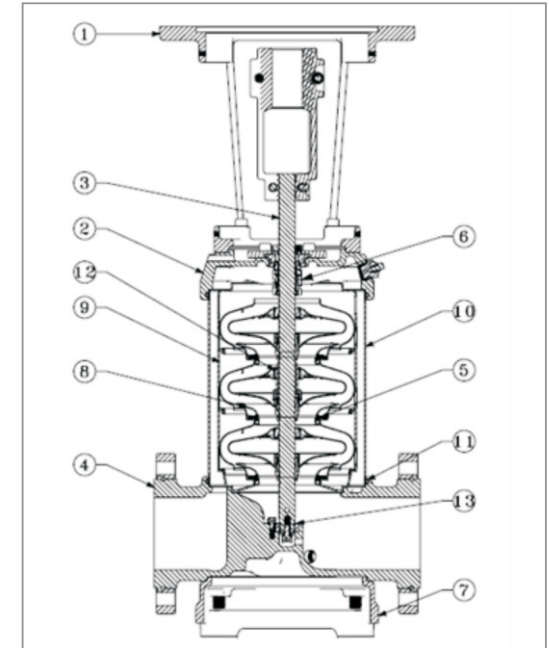
**Sectional drawing SCR**  
32, 45, 64 & 90



#### Materials SCR

Pos	Designation	Material
1	Pump head	Cast iron
2	Pump head cover	SS 304
3	Pump shaft	Duplex
4	Pump base	Cast Iron
5	Neck ring	PTFE
6	Mech. Seal	
8	Impeller	SS 304
9	Chamber	SS 304
10	Outer sleeve	SS 304
11	O-ring	EPDM/FKM
12	Chamber bush	Bronze
13	Pump base bush	Tungsten

**Sectional drawing SCRN**  
32, 45, 64 & 90



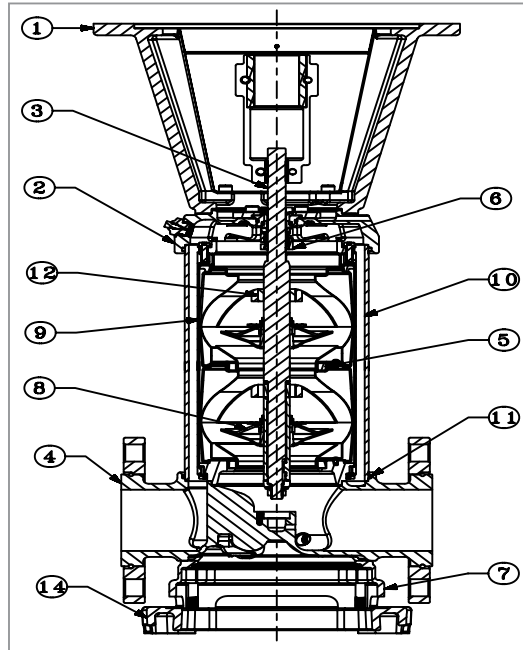
#### Materials SCRN

Pos	Designation	Material
1	Pump head	Cast iron
2	Pump head cover	SS 316
3	Pump shaft	Duplex
4	Pump base	SS 316
5	Neck ring	PTFE
6	Mech. Seal	
7	Base plate	Cast iron
8	Impeller	SS 316
9	Chamber	SS 316
10	Outer sleeve	SS 316
11	O-ring	EPDM/FKM
12	Chamber bush	Bronze
13	Pump base bush	Tungsten

## TYPE OF KEYS & CONSTRUCTION

### VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

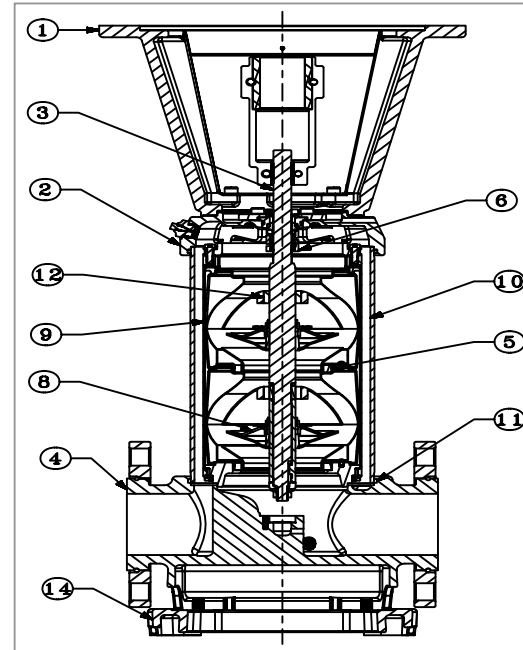
Sectional drawing SCRN 120 & 150



Materials SCRN 120 & 150

Pos	Designation	Material
1	Pump head	Cast iron
2	Pump head cover	SS 316
3	Pump shaft	Duplex
4	Pump base	SS 316
5	Neck ring	PTFE
6	Mech. Seal	
7	Base Plate	Cast iron
8	Impeller	SS 316
9	Chamber	SS 316
10	Outer sleeve	SS 316
11	O-ring	EPDM/FKM
12	Chamber bush	Bronze
13	Pump base bush	Tungsten
14	Pump base plate	Cast iron

Sectional drawing SCR 120 & 150



Materials SCR 120 & 150

Pos	Designation	Material
1	Pump head	Cast iron
2	Pump head cover	SS 304
3	Pump shaft	Duplex
4	Pump base	Cast iron
5	Neck ring	PTFE
6	Mech. Seal	
7	Impeller	SS 304
8	Chamber	SS 304
9	Outer sleeve	SS 304
10	O-ring	EPDM/FKM
11	Chamber bush	Bronze
12	Pump base bush	Tungsten
13	Pump base plate	Cast iron

## OPERATING AND INLET PRESSURES

### VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

#### Maximum Inlet Pressure

The following table shows the maximum permissible inlet pressure. However, the current inlet pressure + the pressure against a closed valve must always be lower than the maximum permissible operating pressure.

If the maximum permissible operating pressure is exceeded, the conical bearing in the motor may be damaged and the life of the shaft seal reduced.

#### Maximum inlet Pressure

SCR, SCRI, SCRN 1S		
1S-2	1S-27	10 (bar)
SCR, SCRI, SCRN 1		
1-2	1-25	10 (bar)
1-27		15 (bar)
SCR, SCRI, SCRN 3		
3-2	3-15	10 (bar)
3-17	3-25	15 (bar)
SCR, SCRI, SCRN 5		
5-2	5-9	10 (bar)
5-10	5-24	15 (bar)
SCR, SCRI, SCRN 10		
10-1	10-5	8 (bar)
10-6	10-17	10 (bar)
SCR, SCRI, SCRN 15		
15-1	15-2	8 (bar)
15-3	15-12	10 (bar)
SCR, SCRI, SCRN 20		
20-1		8 (bar)
20-2	20-10	10 (bar)
SCR, SCRN 32		
32-1-1	32-2	4 (bar)
32-3-2	32-6	10 (bar)
31-7-2	32-10-2	15 (bar)
SCR, SCRN 45		
45-1-1	45-1	4 (bar)
45-2-2	45-3	10 (bar)
45-4-2	45-7	15 (bar)
SCR, SCRN 64		
64-1-1		4 (bar)
64-1	64-2-1	10 (bar)
64-2	64-5-2	15 (bar)
SCR, SCRN 90		
90-1-1	90-2-2	10 (bar)
90-2-1	90-4-2	15 (bar)
SCR, SCRN 120		
120-1		10 (bar)
120-2-2	120-3	15 (bar)
120-4-1	120-5-23	20 (bar)
SCR, SCRN 150		
150-1-1		10 (bar)
150-1	150-2	15 (bar)
150-3-2	150-4-2	20 (bar)

#### Electric - Motor

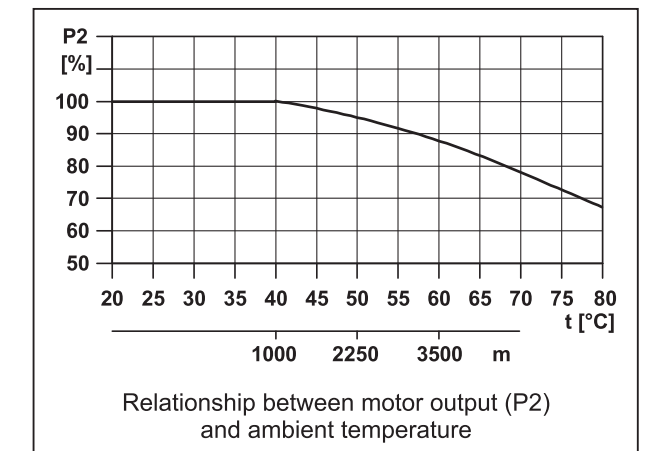
Full - enclosed two pole standard motor

Mounting designation	Up to 3.7 kW : B 14 (Phase mounting) From 5.5 kW : B1 (Flange mounting)
Insulation class	F
Enclosure class	IP 55
Standard voltages 60 Hz	1 x 200- 240V      Star/Delta 3 x 380- 440V

#### Ambient Temperature

Ambient temperature: maximum +40C.

If the ambient temperature exceeds + 40C or if the motor is located 1000 meters above sea level, the motor output (P2) must be reduced due low cooling effect of the air. In such cases, it may be necessary to use a motor with a higher output.



# CONVERSION

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

### CONVERSION TABLE

#### Volume

1 Imperial Gallon (UK)	-	4.546 Litres
1 U.S. Gallon	-	3.785 Litres

#### Discharge Rate

1 Imperial Gallon/Minute	-	4.546 LPM	-	10 lbs of water
1 U.S. Gallon/Minute	-	3.785 LPM		
1m <sup>3</sup> /hr	-	1000 LPH		
1cu feet	-	28.32 Litres	-	62.4 lbs of water
1m <sup>3</sup> /hr	-	16.67 LPM		
1Litre/Second	-	60 LPM		

#### Pressure

1 Atmospheric Pressure	-	1.033 kg/cm <sup>2</sup>
	-	14.7 lb/in <sup>2</sup> (PSI)
	-	1.03 kg/cm <sup>2</sup>
	-	33.9 feet of wc
1kg/cm <sup>2</sup>	-	10 mwc
	-	14.22 PSI
	-	1 bar

#### Power

1HP (SI)	-	0.746 kW
	-	746 W
1HP (Metric)	-	0.736 kW
	-	736 W
1 kW	-	1000 W
1 Unit	-	1 kW or 1000 W
1va	-	1 W

#### Length

1 inch	-	25.4 mm
	-	2.54 cm
1 meter	-	39.36 inch
	-	3.281 feet
	-	1000 mm
1 foot	-	304.8 mm
	-	12 inch
1 Acre	-	0.404 Hectare
1 Hectare	-	2.47 Acre

#### Conversion of centigrade to Fahrenheit degree.

$$F = (9C/5) + 32$$

#### Conversion of Fahrenheit to centigrade degree.

$$C = F - 32(5/9)$$

Speed (N)

$$\text{RPM Ns} = \frac{120 \times \text{frequency (f)}}{\text{No. of pole pairs (p)}}$$

Where,

- RPM- Revolution per Minute
- P - No. of pole pairs
- F - Frequency (Hz)

# SELECTION AND SIZING

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

### SELECTION OF PUMP

#### Minimum inlet pressure – NPSH

Calculation of the inlet pressure “H” is recommended when...

- The liquid temperature is high
- The flow is significantly higher than the rated flow
- Water is drawn from depths
- Water is drawn through long pipes
- Inlet conditions are poor

To avoid cavitations, make sure that there is a minimum pressure on the suction side of pump. The maximum suction lift “H” in meters head can be calculated as follows:

$$H = pb \times 10.2 - \text{NPSH} - H_f - H_v - H_s$$

Pb=Barometric pressure in bar.  
(Barometric pressure can be sent to 1 bar).  
In closed systems, pb indicates the system pressure in bar.

NPSH= Net Positive Suction Head in meters head.  
(To be read from the NPSH curve at the highest flow the pump will be delivering.)

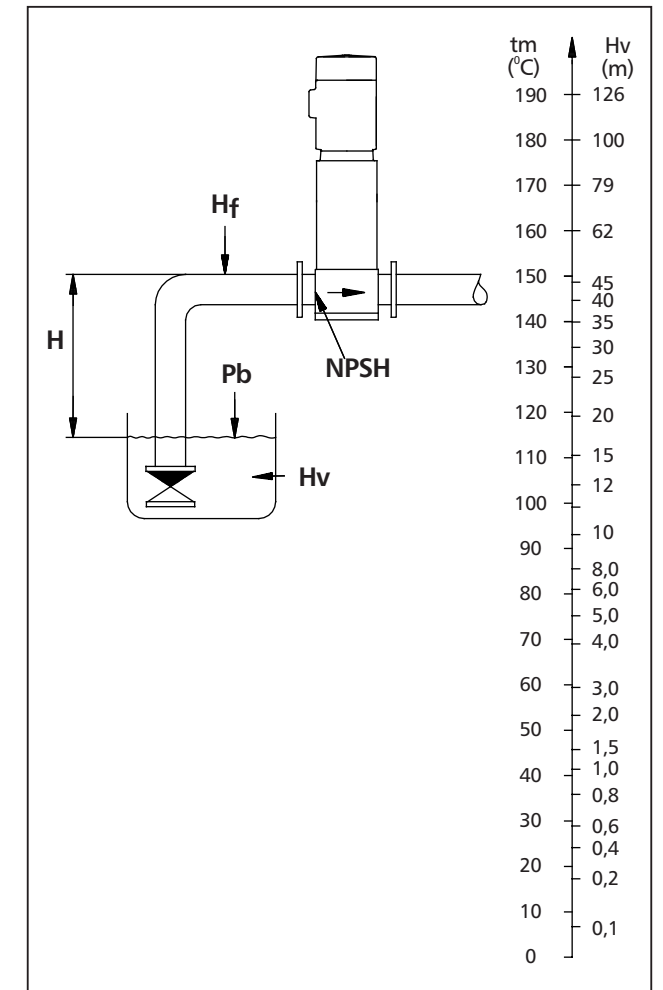
H<sub>f</sub>=Friction loss in suction pipe in meters head.  
(At the highest flow the pump will be delivering.)

H<sub>v</sub>=Vapor pressure in meters head.  
(To be read from the vapor pressure scale.  
“H<sub>v</sub>” depends on the liquid temperature “T<sub>m</sub>”).

H<sub>s</sub>=Safety margin = minimum 0.5 meters head.

If the “H” calculated is positive, the pump can operate at a suction lift of maximum “H” meters head.

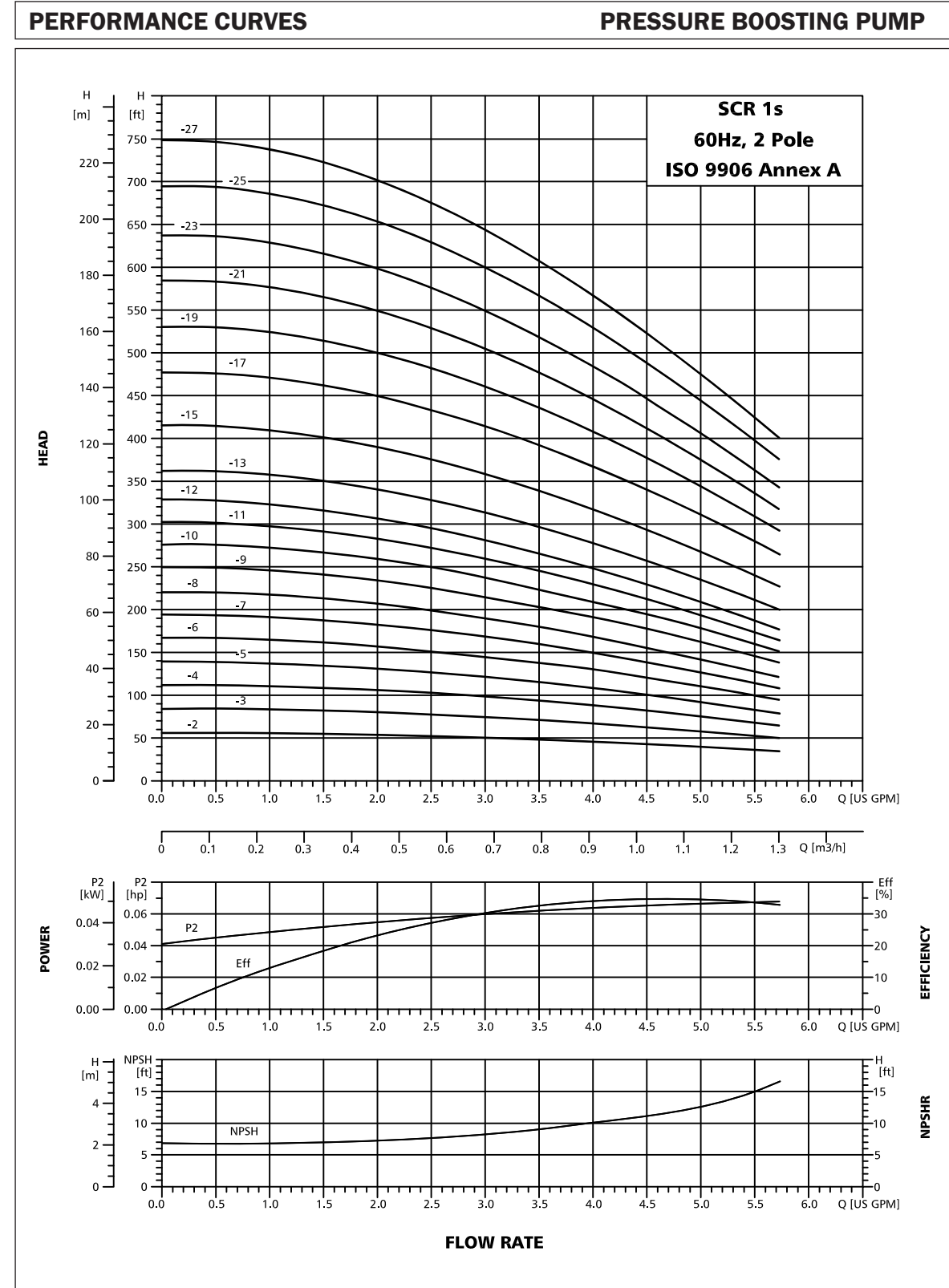
If the “H” calculated is negative, an inlet pressure of minimum “H” meters head is required.



**Note:** In order to avoid cavitation never, select a pump whose duty point lies too far to the right on the NPSH curve. Always check the NPSH value of the pump at the highest possible flow.

# PERFORMANCE CURVES

## SCR 1s



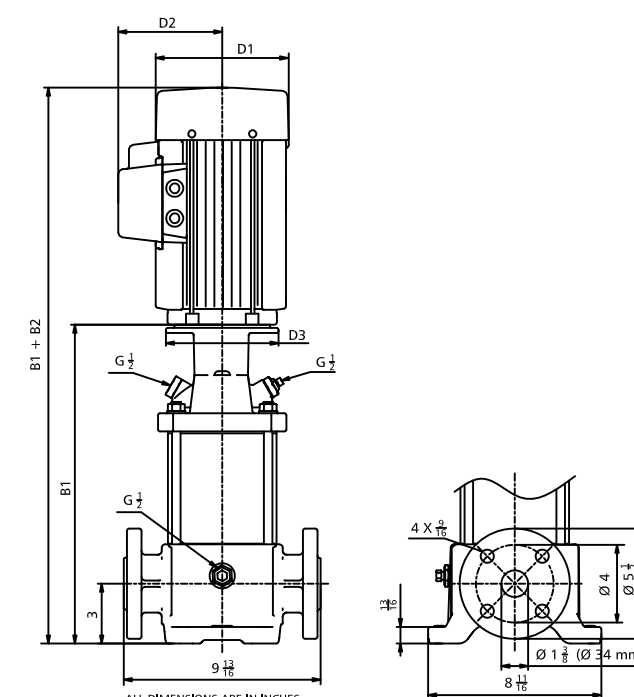
# TECHNICAL DATA

## SCR 1s



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### DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

Model	Size in Inch					Weight (lbs)
	B1	B1+B2	D1	D2	D3	
SCR,SCRN 1s-2	10.31	17.81	5.56	5.06	---	51
SCR,SCRN 1s-3	11.00	18.50	5.56	5.06	---	51
SCR,SCRN 1s-4	11.69	19.25	5.56	5.06	---	53
SCR,SCRN 1s-5	12.44	19.94	5.56	5.06	---	53
SCR,SCRN 1s-6	13.13	20.63	5.56	5.06	---	53
SCR,SCRN 1s-7	13.81	21.38	5.56	5.06	---	53
SCR,SCRN 1s-8	14.56	22.13	5.56	5.06	---	55
SCR,SCRN 1s-9	15.25	22.88	5.56	5.06	---	57
SCR,SCRN 1s-10	16.00	23.56	5.56	5.06	---	57
SCR,SCRN 1s-11	16.69	25.88	5.56	5.19	---	62
SCR,SCRN 1s-12	17.38	26.56	5.56	5.19	---	64
SCR,SCRN 1s-13	18.06	27.25	5.56	5.19	---	64
SCR,SCRN 1s-15	19.50	28.69	5.56	5.19	---	71
SCR,SCRN 1s-17	20.94	30.06	5.56	5.19	---	73
SCR,SCRN 1s-19	22.31	31.50	5.56	5.19	---	75
SCR,SCRN 1s-21	23.75	32.94	5.56	5.19	---	77
SCR,SCRN 1s-23	25.19	36.25	7.00	4.31	---	93
SCR,SCRN 1s-25	26.56	37.69	7.00	4.31	---	93
SCR,SCRN 1s-27	28.00	39.06	7.00	4.31	---	97

### PERFORMANCE TABLE

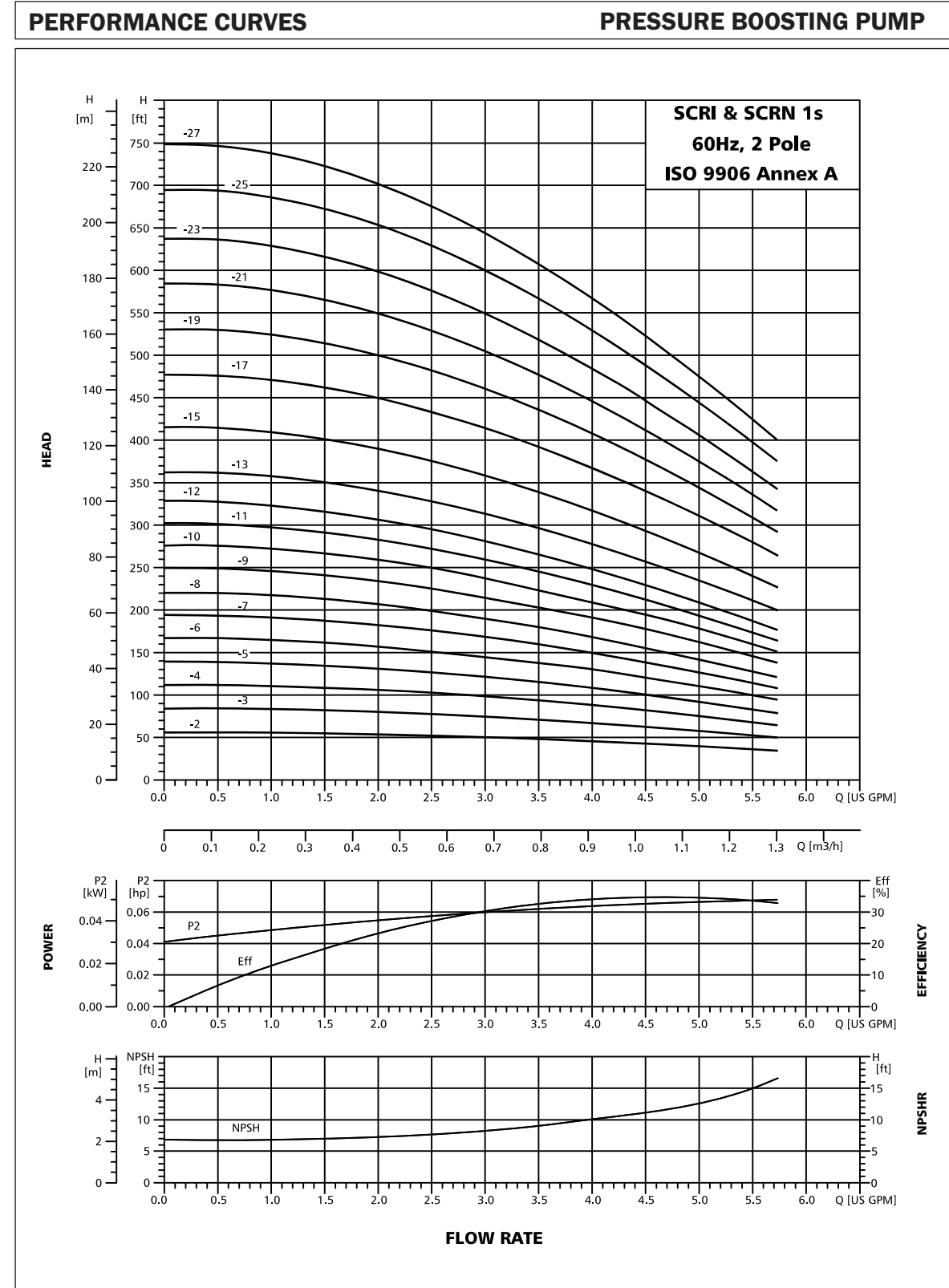
Model	kW	HP	Amp.	Head (Mtr.)							
				0	0.1	0.3	0.5	0.7	0.9	1.1	1.3
SCR,SCRN 1s-2	0.37	0.5	1.50-1.44/0.87-0.83	0	0.4	1.3	2.2	3.1	4.0	4.8	5.7
SCR,SCRN 1s-3	0.37	0.5	1.50-1.44/0.87-0.84	17	17	17	16	15	14	13	10
SCR,SCRN 1s-4	0.37	0.5	1.50-1.44/0.87-0.85	26	26	25	24	23	21	17	15
SCR,SCRN 1s-5	0.37	0.5	1.50-1.44/0.87-0.86	34	34	33	32	30	27	24	20
SCR,SCRN 1s-6	0.37	0.5	1.50-1.44/0.87-0.87	42	42	41	39	37	33	28	24
SCR,SCRN 1s-7	0.37	0.5	1.50-1.44/0.87-0.88	51	51	49	47	44	40	35	28
SCR,SCRN 1s-8	0.55	0.75	2.15-2.05/1.25-1.20	59	59	57	55	51	46	40	33
SCR,SCRN 1s-9	0.55	0.75	2.15-2.05/1.25-1.21	67	67	65	62	57	52	44	36
SCR,SCRN 1s-10	0.55	0.75	2.15-2.05/1.25-1.22	76	76	74	70	65	58	51	42
SCR,SCRN 1s-11	0.75	1	2.95-2.75/1.70-1.60	84	84	82	77	71	64	76	45
SCR,SCRN 1s-12	0.75	1	2.95-2.75/1.70-1.61	92	92	90	85	78	70	60	50
SCR,SCRN 1s-13	0.75	1	2.95-2.75/1.70-1.62	100	100	97	92	85	76	66	54
SCR,SCRN 1s-15	1.1	1.5	4.15-4.00/2.40-2.30	110	110	108	102	95	85	74	61
SCR,SCRN 1s-17	1.1	1.5	4.15-4.00/2.40-2.31	126	126	123	117	108	97	84	70
SCR,SCRN 1s-19	1.1	1.5	4.15-4.00/2.40-2.32	145	145	142	135	125	113	97	80
SCR,SCRN 1s-21	1.1	1.5	4.15-4.00/2.40-2.33	161	161	157	150	139	125	108	89
SCR,SCRN 1s-23	1.5	2	5.35-4.70/3.10-2.70	178	178	174	165	152	137	117	96
SCR,SCRN 1s-25	1.5	2	5.35-4.70/3.10-2.71	194	194	189	180	166	148	127	105
SCR,SCRN 1s-27	1.5	2	5.35-4.70/3.10-2.72	212	212	206	196	181	162	140	114
SCR,SCRN 1s-27	1.5	2	5.35-4.70/3.10-2.72	227	227	22	211	194	174	149	122

- SCR standard voltages: 220-240Δ/380-440Y
- This performance table is approximate as a performance curve.



# PERFORMANCE CURVES

## SCRI, SCR N 1s



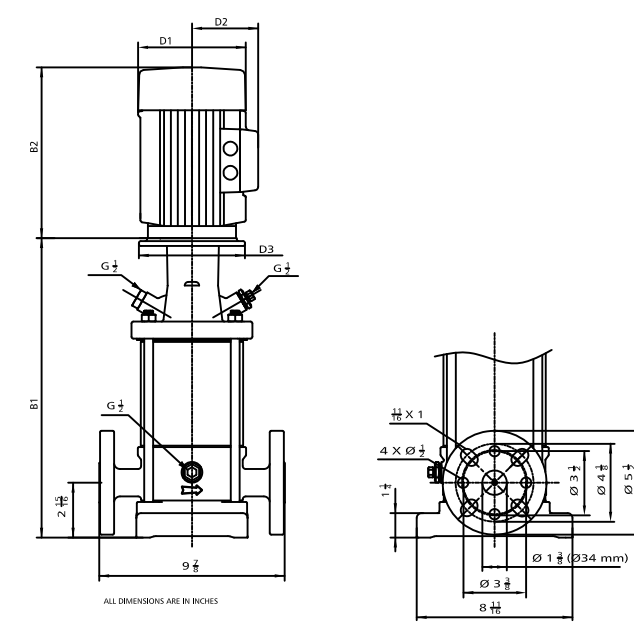
# TECHNICAL DATA

## SCRI, SCR N 1s



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### DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

Model	Size in Inch					Weight (lbs)
	B1	B1+B2	D1	D2	D3	
SCRI, SCR N 1S-2	11.13	17.88	5.56	5.06	-	44
SCRI, SCR N 1S-3	11.13	18.63	5.56	5.06	-	46
SCRI, SCR N 1S-4	11.81	19.31	5.56	5.06	-	46
SCRI, SCR N 1S-5	12.56	20.00	5.56	5.06	-	46
SCRI, SCR N 1S-6	12.44	20.75	5.56	5.06	-	49
SCRI, SCR N 1S-7	13.94	21.50	5.56	5.06	-	49
SCRI, SCR N 1S-8	14.69	22.13	5.56	5.06	-	51
SCRI, SCR N 1S-9	15.38	22.88	5.56	5.06	-	53
SCRI, SCR N 1S-10	16.06	23.56	5.56	5.06	-	53
SCRI, SCR N 1S-11	16.81	25.88	5.56	5.19	-	60
SCRI, SCR N 1S-12	17.50	26.56	5.56	5.19	-	60
SCRI, SCR N 1S-13	18.19	27.25	5.56	5.19	-	60
SCRI, SCR N 1S-15	19.63	28.69	5.56	5.19	-	66
SCRI, SCR N 1S-17	21.00	30.06	5.56	5.19	-	68
SCRI, SCR N 1S-19	22.50	31.50	5.56	5.19	-	71
SCRI, SCR N 1S-21	24.06	32.94	5.56	5.19	-	73
SCRI, SCR N 1S-23	25.56	36.25	7.00	4.31	-	88
SCRI, SCR N 1S-25	26.94	37.69	7.00	4.31	-	90
SCRI, SCR N 1S-27	28.38	39.06	7.00	4.31	-	93

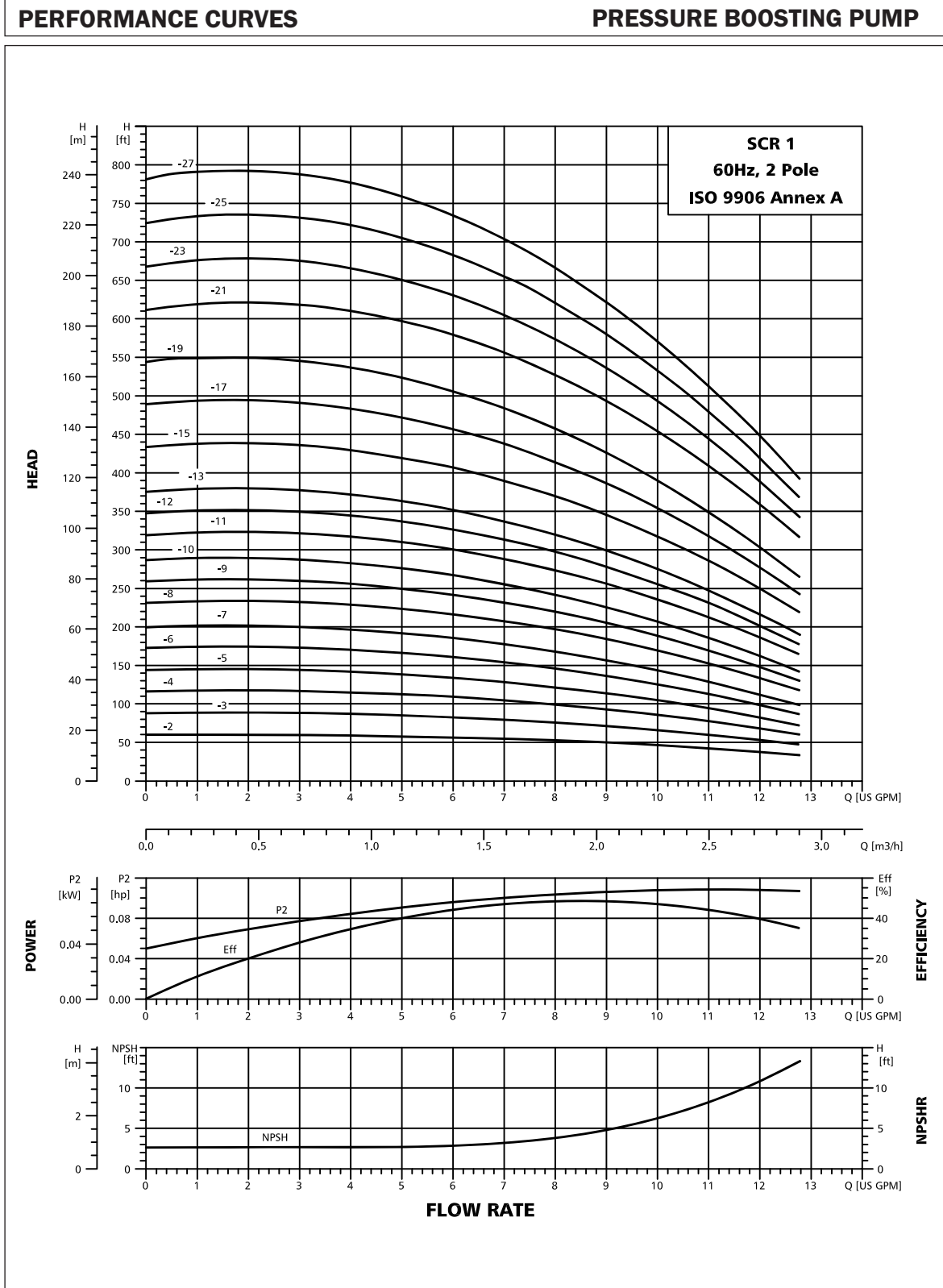
### PERFORMANCE TABLE

Model	kW	HP	Amp.	Head (Mtr.)																
				m³/h	0	0.1	0.3	0.5	0.7	0.9	1.1	1.3								
SCRI, SCR N 1S-2	0.37	0.5	1.50-1.44/0.87-0.83	US GPM	0	0.4	1.3	2.2	3.1	4.0	4.8	5.7	17	17	17	16	15	14	13	10
SCRI, SCR N 1S-3	0.37	0.5	1.50-1.44/0.87-0.84	26	26	25	24	23	21	17	15	12	26	26	25	24	23	21	17	15
SCRI, SCR N 1S-4	0.37	0.5	1.50-1.44/0.87-0.85	34	34	33	32	30	27	24	20	34	34	33	32	30	27	24	20	17
SCRI, SCR N 1S-5	0.37	0.5	1.50-1.44/0.87-0.86	42	42	41	39	37	33	28	24	42	42	41	39	37	33	28	24	20
SCRI, SCR N 1S-6	0.37	0.5	1.50-1.44/0.87-0.87	51	51	49	47	44	40	35	28	51	51	49	47	44	40	35	28	24
SCRI, SCR N 1S-7	0.37	0.5	1.50-1.44/0.87-0.88	59	59	57	55	51	46	40	33	59	59	57	55	51	46	40	33	28
SCRI, SCR N 1S-8	0.55	0.75	2.15-2.05/1.25-1.20	67	67	65	62	57	52	44	36	67	67	65	62	57	52	44	36	28
SCRI, SCR N 1S-9	0.55	0.75	2.15-2.05/1.25-1.21	76	76	74	70	65	58	51	42	76	76	74	70	65	58	51	42	36
SCRI, SCR N 1S-10	0.55	0.75	2.15-2.05/1.25-1.22	84	84	82	77	71	64	56	45	84	84	82	77	71	64	56	45	36
SCRI, SCR N 1S-11	0.75	1	2.95-2.75/1.70-1.60	92	92	90	85	78	70	60	50	92	92	90	85	78	70	60	50	42
SCRI, SCR N 1S-12	0.75	1	2.95-2.75/1.70-1.61	100	100	97	92	85	76	66	54	100	100	97	92	85	76	66	54	45
SCRI, SCR N 1S-13	0.75	1	2.95-2.75/1.70-1.62	110	110	108	102	95	85	74	61	110	110	108	102	95	85	74	61	54
SCRI, SCR N 1S-15	1.1	1.5	4.15-4.00/2.40-2.30	126	126	123	117	108	97	84	70	126	126	123	117	108	97	84	70	61
SCRI, SCR N 1S-17	1.1	1.5	4.15-4.00/2.40-2.31	145	145	142	135	125	113	97	80	145	145	142	135	125	113	97	80	70
SCRI, SCR N 1S-19	1.1	1.5	4.15-4.00/2.40-2.32	161	161	157	150	139	125	108	89	161	161	157	150	139	125	108	89	80
SCRI, SCR N 1S-21	1.1	1.5	4.15-4.00/2.40-2.33	178	178	174	165	152	137	117	96	178	178	174	165	152	137	117	96	89
SCRI, SCR N 1S-23	1.5	2	5.35-4.70/3.10-2.70	194	194	189	180	166	148	127	105	194	194	189	180	166	148	127	105	96
SCRI, SCR N 1S-25	1.5	2	5.35-4.70/3.10-2.71	212	212	206	196	181	162	140	114	212	212	206	196	181	162	140	114	105
SCRI, SCR N 1S-27	1.5	2	5.35-4.70/3.10-2.72	227	227	222	211	194	174	149	122	227	227	222	211	194	174	149	122	114

- SCRI, SCR N standard voltages: 220-240Δ/380-440Y
- This performance table is approximate as a performance curve.

# PERFORMANCE CURVES

## SCR 1



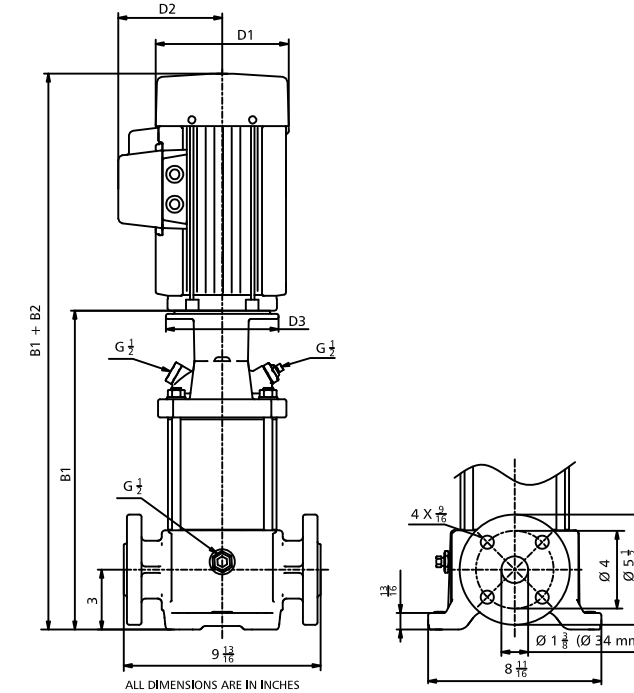
# TECHNICAL DATA

## SCR 1



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### DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

Model	Size in Inch					Weight (Lbs)
	B1	B1+B2	D1	D2	D3	
SCR 1-2	10.25	17.88	5.56	5.06	--	51
SCR 1-3	11.00	18.56	5.56	5.06	--	51
SCR 1-4	11.69	19.25	5.56	5.06	--	51
SCR 1-5	12.38	20.00	5.56	5.06	--	53
SCR 1-6	13.06	20.69	5.56	5.06	--	55
SCR 1-7	13.81	23.00	5.56	5.19	--	60
SCR 1-8	14.50	23.69	5.56	5.19	--	60
SCR 1-9	15.25	24.38	5.56	5.19	--	62
SCR 1-10	15.94	25.06	5.56	5.19	--	66
SCR 1-11	16.63	25.81	5.56	5.19	--	71
SCR 1-12	17.38	26.50	5.56	5.19	--	71
SCR 1-13	18.06	27.25	5.56	5.19	--	71
SCR 1-15	19.50	30.56	7.00	4.31	--	86
SCR 1-17	20.88	31.94	7.00	4.31	--	88
SCR 1-19	22.31	33.38	7.00	4.31	--	93
SCR 1-21	23.75	34.81	7.00	4.31	--	93
SCR 1-23	25.13	36.19	7.00	4.31	--	95
SCR 1-25	26.56	37.63	7.00	4.31	--	97
SCR 1-27	28.00	41.19	7.81	4.75	--	112

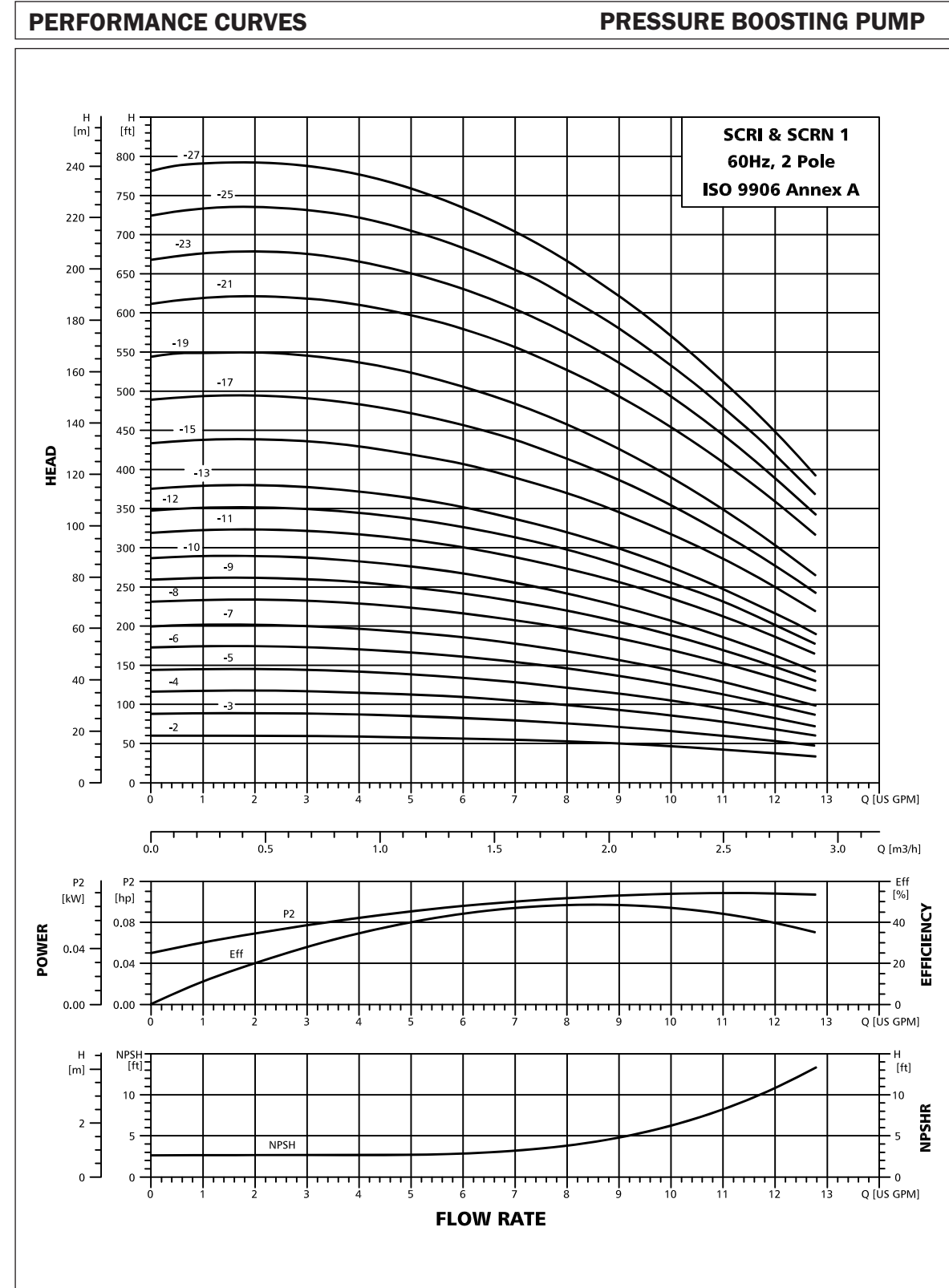
### PERFORMANCE TABLE

Model	kW	HP	Amp.	m³/h							
				0	0.4	0.8	1.2	1.6	2	2.4	2.8
SCR 1-2	0.37	0.5	1.50-1.44/0.87-0.83	18	18	18	17	16	15	13	11
SCR 1-3	0.37	0.5	1.50-1.44/0.87-0.84	27	27	27	26	24	22	18	15
SCR 1-4	0.37	0.5	1.50-1.44/0.87-0.85	35	36	35	34	32	28	25	20
SCR 1-5	0.55	0.75	2.15-2.05/1.25-1.20	43	44	43	41	39	35	30	24
SCR 1-6	0.55	0.75	2.15-2.05/1.25-1.21	52	53	52	50	47	42	36	28
SCR 1-7	0.75	1	2.95-2.75/1.70-1.60	61	62	60	57	54	48	42	32
SCR 1-8	0.75	1	2.95-2.75/1.70-1.61	70	71	70	67	63	57	48	38
SCR 1-9	0.75	1	2.95-2.75/1.70-1.62	79	80	79	75	70	64	54	43
SCR 1-10	1.1	1.5	4.15-4.00/2.40-2.30	87	88	86	84	77	70	60	47
SCR 1-11	1.1	1.5	4.15-4.00/2.40-2.31	107	109	107	94	87	79	67	54
SCR 1-12	1.1	1.5	4.15-4.00/2.40-2.32	101	102	101	102	95	86	74	57
SCR 1-13	1.1	1.5	4.15-4.00/2.40-2.33	114	116	114	110	102	92	79	63
SCR 1-15	1.5	2	5.35-4.70/3.10-2.70	132	134	132	126	118	106	91	72
SCR 1-17	1.5	2	5.35-4.70/3.10-2.71	149	151	148	143	133	119	102	80
SCR 1-19	2.2	3	7.70-6.35/4.45-3.70	165	167	165	158	147	132	112	87
SCR 1-21	2.2	3	7.70-6.35/4.45-3.71	186	189	187	180	169	152	131	104
SCR 1-23	2.2	3	7.70-6.35/4.45-3.72	203	206	205	196	184	165	142	112
SCR 1-25	2.2	3	7.70-6.35/4.45-3.73	220	224	222	213	199	179	154	121
SCR 1-27	3	4	10.80-9.35/6.20-5.40	239	241	239	229	214	192	164	130

- SCR standard voltages: 220-240Δ/380-440Y
- This performance table is approximate as a performance curve.

# PERFORMANCE CURVES

## SCRI, SCR N 1



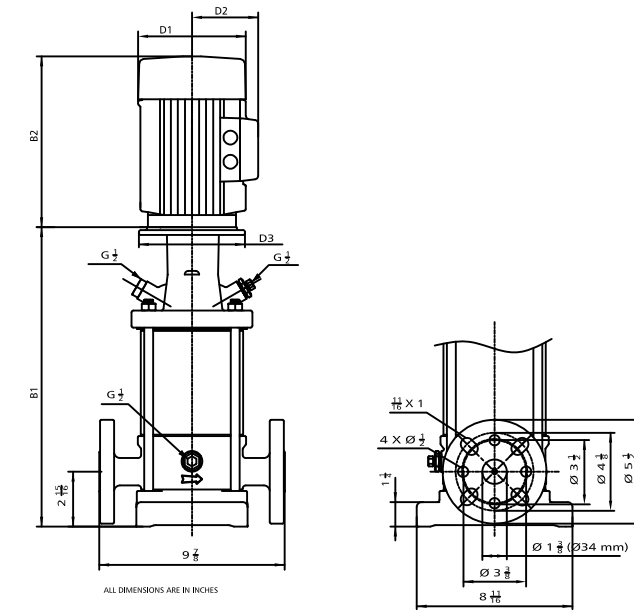
# TECHNICAL DATA

## SCRI, SCR N 1



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### DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

Model	Size in Inch					Weight (Lbs)
	B1	B1+B2	D1	D2	D3	
SCRI, SCR N 1-2	11.13	18.75	5.56	5.06	-	42
SCRI, SCR N 1-3	11.13	18.75	5.56	5.06	-	42
SCRI, SCR N 1-4	11.81	19.44	5.56	5.06	-	43
SCRI, SCR N 1-5	12.56	20.13	5.56	5.06	-	44
SCRI, SCR N 1-6	12.44	20.06	5.56	5.06	-	44
SCRI, SCR N 1-7	13.94	23.13	5.56	5.19	-	45
SCRI, SCR N 1-8	14.69	23.81	5.56	5.19	-	48
SCRI, SCR N 1-9	15.38	24.56	5.56	5.19	-	50
SCRI, SCR N 1-10	16.06	25.25	5.56	5.19	-	51
SCRI, SCR N 1-11	16.81	26.00	5.56	5.19	-	51
SCRI, SCR N 1-12	17.50	26.69	5.56	5.19	-	56
SCRI, SCR N 1-13	18.19	27.38	5.56	5.19	-	57
SCRI, SCR N 1-15	19.63	30.69	7.00	4.31	-	58
SCRI, SCR N 1-17	21.00	32.06	7.00	4.31	-	62
SCRI, SCR N 1-19	22.50	33.50	7.00	4.31	-	64
SCRI, SCR N 1-21	24.06	35.19	7.00	4.31	-	65
SCRI, SCR N 1-23	25.56	36.63	7.00	4.31	-	67
SCRI, SCR N 1-25	26.94	38.00	7.00	4.31	-	83
SCRI, SCR N 1-27	28.38	41.56	7.81	4.75	-	84

### PERFORMANCE TABLE

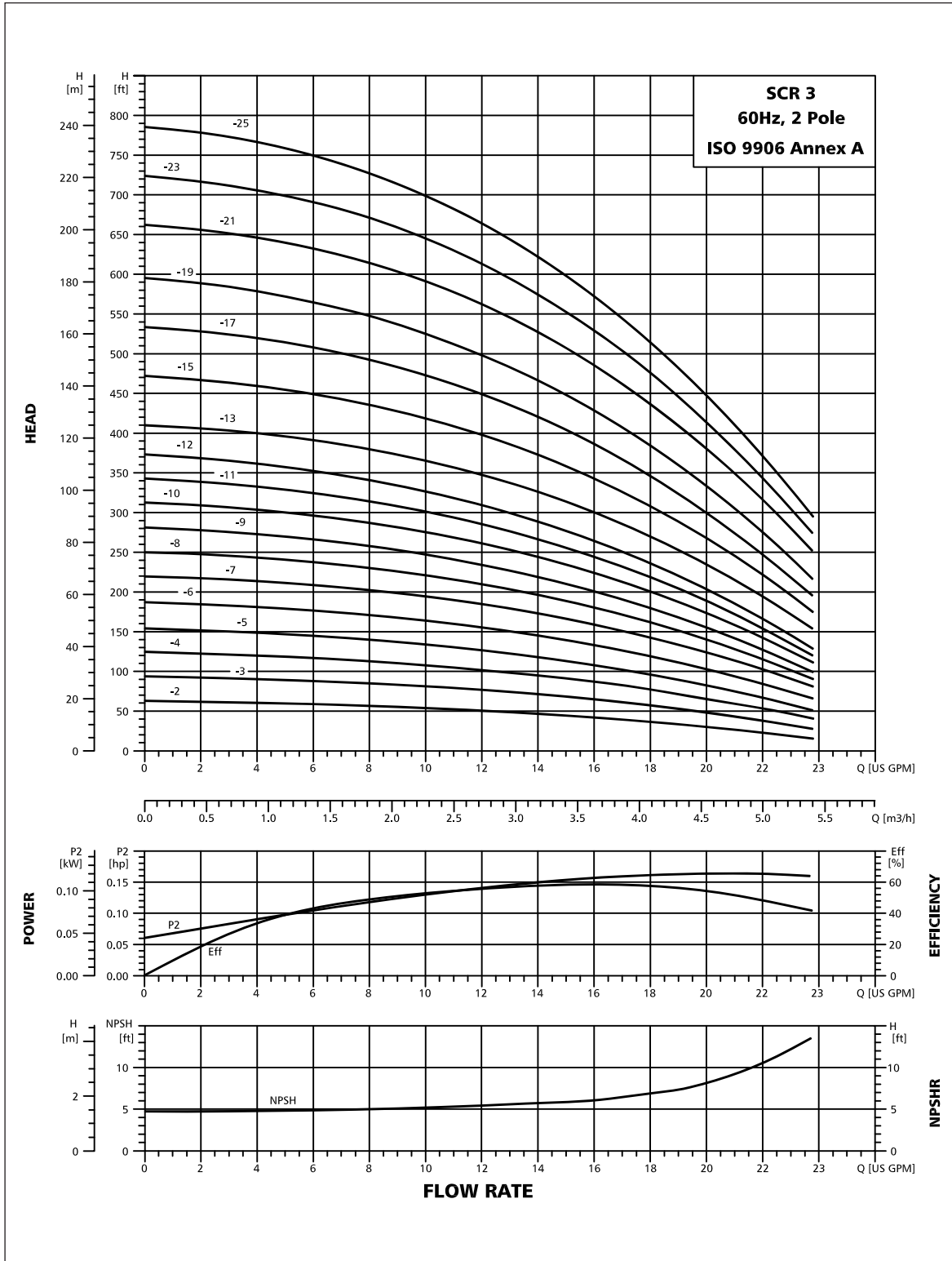
Model	kW	HP	Amp.	Head (Mtr.)								
				0	0.4	0.8	1.2	1.6	2	2.4	2.8	
SCRI, SCR N 1-2	0.37	0.5	1.50-1.44/0.87-0.83	18	18	18	17	16	15	13	11	
SCRI, SCR N 1-3	0.37	0.5	1.50-1.44/0.87-0.84	27	27	27	26	24	22	18	15	
SCRI, SCR N 1-4	0.37	0.5	1.50-1.44/0.87-0.85	35	36	35	34	32	28	25	20	
SCRI, SCR N 1-5	0.55	0.75	2.15-2.05/1.25-1.20	43	44	43	41	39	35	30	24	
SCRI, SCR N 1-6	0.55	0.75	2.15-2.05/1.25-1.21	52	53	52	50	47	42	36	28	
SCRI, SCR N 1-7	0.75	1	2.95-2.75/1.70-1.60	61	62	60	57	54	48	42	32	
SCRI, SCR N 1-8	0.75	1	2.95-2.75/1.70-1.61	70	71	70	67	63	57	48	38	
SCRI, SCR N 1-9	0.75	1	2.95-2.75/1.70-1.62	79	80	79	75	70	64	54	43	
SCRI, SCR N 1-10	1.1	1.5	4.15-4.00/2.40-2.30	87	88	86	84	77	70	60	47	
SCRI, SCR N 1-11	1.1	1.5	4.15-4.00/2.40-2.31	107	109	107	94	87	79	67	54	
SCRI, SCR N 1-12	1.1	1.5	4.15-4.00/2.40-2.32	101	102	101	102	95	86	74	57	
SCRI, SCR N 1-13	1.1	1.5	4.15-4.00/2.40-2.33	114	116	114	110	102	92	79	63	
SCRI, SCR N 1-15	1.5	2	5.35-4.70/3.10-2.70	132	134	132	126	118	106	91	72	
SCRI, SCR N 1-17	1.5	2	5.35-4.70/3.10-2.71	149	151	148	143	133	119	102	80	
SCRI, SCR N 1-19	2.2	3	7.70-6.35/4.45-3.70	165	167	165	158	147	132	112	87	
SCRI, SCR N 1-21	2.2	3	7.70-6.35/4.45-3.71	186	189	187	180	169	152	131	104	
SCRI, SCR N 1-23	2.2	3	7.70-6.35/4.45-3.72	203	206	205	196	184	165	142	112	
SCRI, SCR N 1-25	2.2	3	7.70-6.35/4.45-3.73	220	224	222	213	199	179	154	121	
SCRI, SCR N 1-27	3	4	10.80-9.35/6.20-5.40	239	241	239	229	214	192	164	130	

- SCRI, SCR N standard voltages: 220-240Δ/380-440Y
- This performance table is approximate as a performance curve.

# PERFORMANCE CURVES

## SCR 3

### PERFORMANCE CURVES PRESSURE BOOSTING PUMP



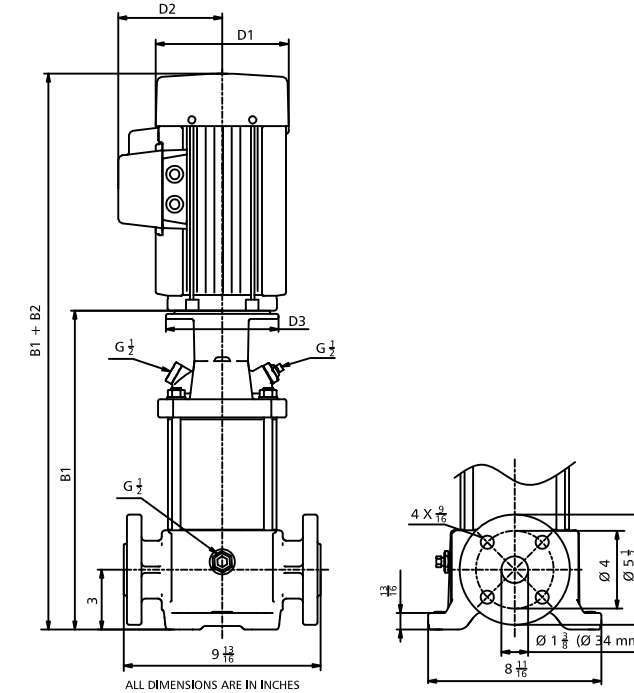
# TECHNICAL DATA

## SCR 3



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### DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and weight

Model	Size in Inch					Weight (Lbs)
	B1	B1+B2	D1	D2	D3	
SCR 3-2	10.50	18.06	5.56	5.06	--	51
SCR 3-3	11.19	18.81	5.56	5.06	--	53
SCR 3-4	11.94	19.50	5.56	5.06	--	53
SCR 3-5	12.63	21.81	5.56	5.19	--	57
SCR 3-6	13.31	22.50	5.56	5.19	--	64
SCR 3-7	14.00	23.25	5.56	5.19	--	64
SCR 3-8	14.75	23.94	5.56	5.19	--	64
SCR 3-9	15.44	26.50	7.00	4.31	--	82
SCR 3-10	16.19	27.25	7.00	4.31	--	82
SCR 3-11	16.88	27.94	7.00	4.31	--	84
SCR 3-12	17.56	28.63	7.00	4.31	--	86
SCR 3-13	18.31	29.38	7.00	4.31	--	88
SCR 3-15	19.00	30.06	7.00	4.31	--	90
SCR 3-17	20.44	31.50	7.00	4.31	--	106
SCR 3-19	21.81	35.00	7.81	4.75	--	108
SCR 3-21	23.25	36.44	7.81	4.75	--	108
SCR 3-23	24.69	37.88	7.81	4.75	--	108
SCR 3-25	26.06	41.63	8.88	7.50	--	130

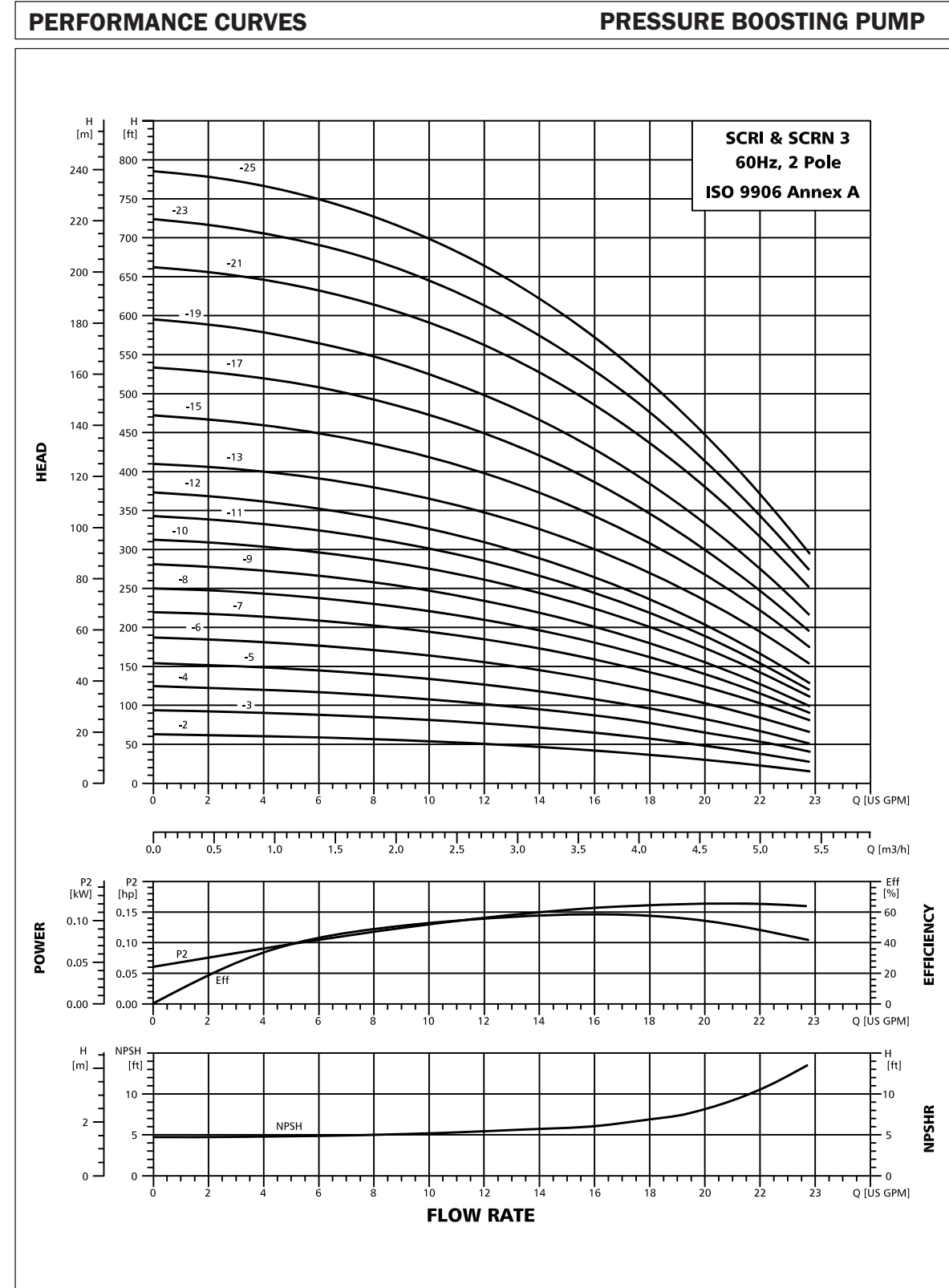
### PERFORMANCE TABLE

Model	kW	HP	Amp.	Head (Mtr.)							
				0	0.7	1.4	2.1	2.8	3.5	4.2	4.9
SCR 3-2	0.37	0.5	1.50-1.44/0.87-0.83	0	3	6	9	12	15	18	22
SCR 3-3	0.55	0.75	2.15-2.05/1.25-1.20	19	18	17	16	15	13	10	7
SCR 3-4	0.55	0.75	2.15-2.05/1.25-1.20	28	27	26	25	23	20	16	12
SCR 3-5	0.75	1	2.95-2.75/1.70-1.60	38	37	36	33	30	27	23	17
SCR 3-6	1.1	1.5	4.15-4.00/2.40-2.30	47	46	44	42	38	34	28	22
SCR 3-7	1.1	1.5	4.15-4.00/2.40-2.30	57	56	54	51	47	42	35	27
SCR 3-8	1.1	1.5	4.15-4.00/2.40-2.30	67	66	64	60	55	50	42	33
SCR 3-9	1.5	2	5.35-4.70/3.10-2.70	76	75	72	68	63	56	57	36
SCR 3-10	1.5	2	5.35-4.70/3.10-2.70	86	84	81	77	70	63	53	40
SCR 3-11	1.5	2	5.35-4.70/3.10-2.70	95	93	90	85	79	70	59	45
SCR 3-12	2.2	3	7.70-6.35/4.45-3.70	104	102	98	94	86	76	65	48
SCR 3-13	2.2	3	7.70-6.35/4.45-3.70	114	101	107	101	93	83	70	53
SCR 3-15	2.2	3	7.70-6.35/4.45-3.70	125	123	119	103	105	94	80	62
SCR 3-17	2.2	3	7.70-6.35/4.45-3.70	144	141	136	130	120	107	91	71
SCR 3-19	3	4	10.80-9.35/6.20-5.40	163	160	155	142	135	120	102	79
SCR 3-21	3	4	10.80-9.35/6.20-5.40	181	178	171	163	150	134	114	88
SCR 3-23	3	4	10.80-9.35/6.20-5.40	202	198	192	183	170	152	129	100
SCR 3-25	4	5.5	13.60-11.80/7.80-6.80	220	216	210	200	185	165	144	109
				240	235	227	216	200	179	152	118

- SCR standard voltages: 220-240Δ/380-440Y
- This performance table is approximate as a performance curve.

# PERFORMANCE CURVES

## SCRI, SCRN 3



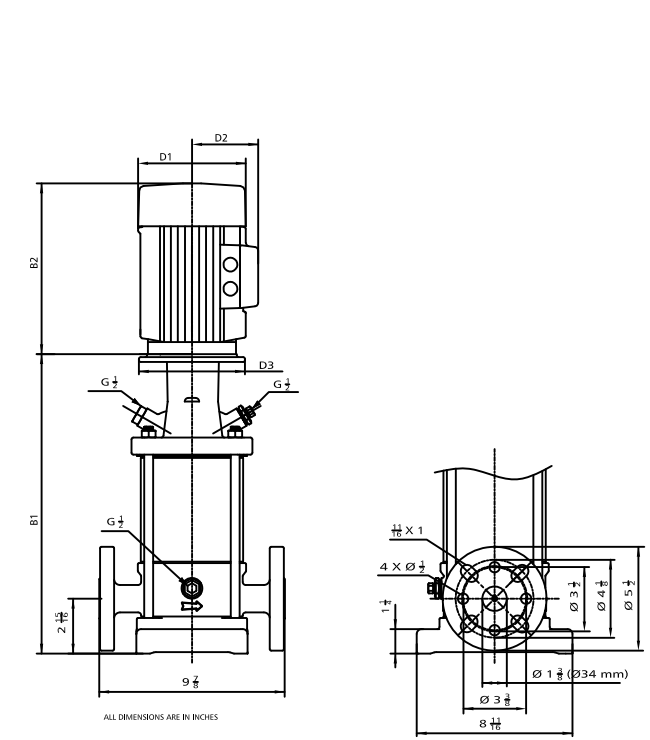
# TECHNICAL DATA

## SCRI, SCRN 3



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### DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

Model	Size in Inch					Weight (Lbs)
	B1	B1+B2	D1	D2	D3	
SCRI, SCRN 3-2	10.63	18.19	5.56	5.06	--	44
SCRI, SCRN 3-3	11.31	18.94	5.56	5.06	--	46
SCRI, SCRN 3-4	12.00	19.63	5.56	5.06	--	49
SCRI, SCRN 3-5	12.75	21.94	5.56	5.19	--	53
SCRI, SCRN 3-6	13.44	22.63	5.56	5.19	--	60
SCRI, SCRN 3-7	14.19	23.31	5.56	5.19	--	60
SCRI, SCRN 3-8	14.88	24.06	5.56	5.19	--	62
SCRI, SCRN 3-9	15.56	26.63	7.00	4.31	--	77
SCRI, SCRN 3-10	16.31	27.38	7.00	4.31	--	77
SCRI, SCRN 3-11	17.00	28.06	7.00	4.31	--	77
SCRI, SCRN 3-12	17.69	28.75	7.00	4.31	--	79
SCRI, SCRN 3-13	18.44	29.50	7.00	4.31	--	82
SCRI, SCRN 3-15	19.06	30.19	7.00	4.31	--	84
SCRI, SCRN 3-17	20.56	31.63	7.00	4.31	--	84
SCRI, SCRN 3-19	21.94	35.13	7.81	4.75	--	101
SCRI, SCRN 3-21	23.38	36.56	7.81	4.75	--	101
SCRI, SCRN 3-23	24.81	38.00	7.81	4.75	--	104
SCRI, SCRN 3-25	26.19	41.75	8.88	7.50	--	126

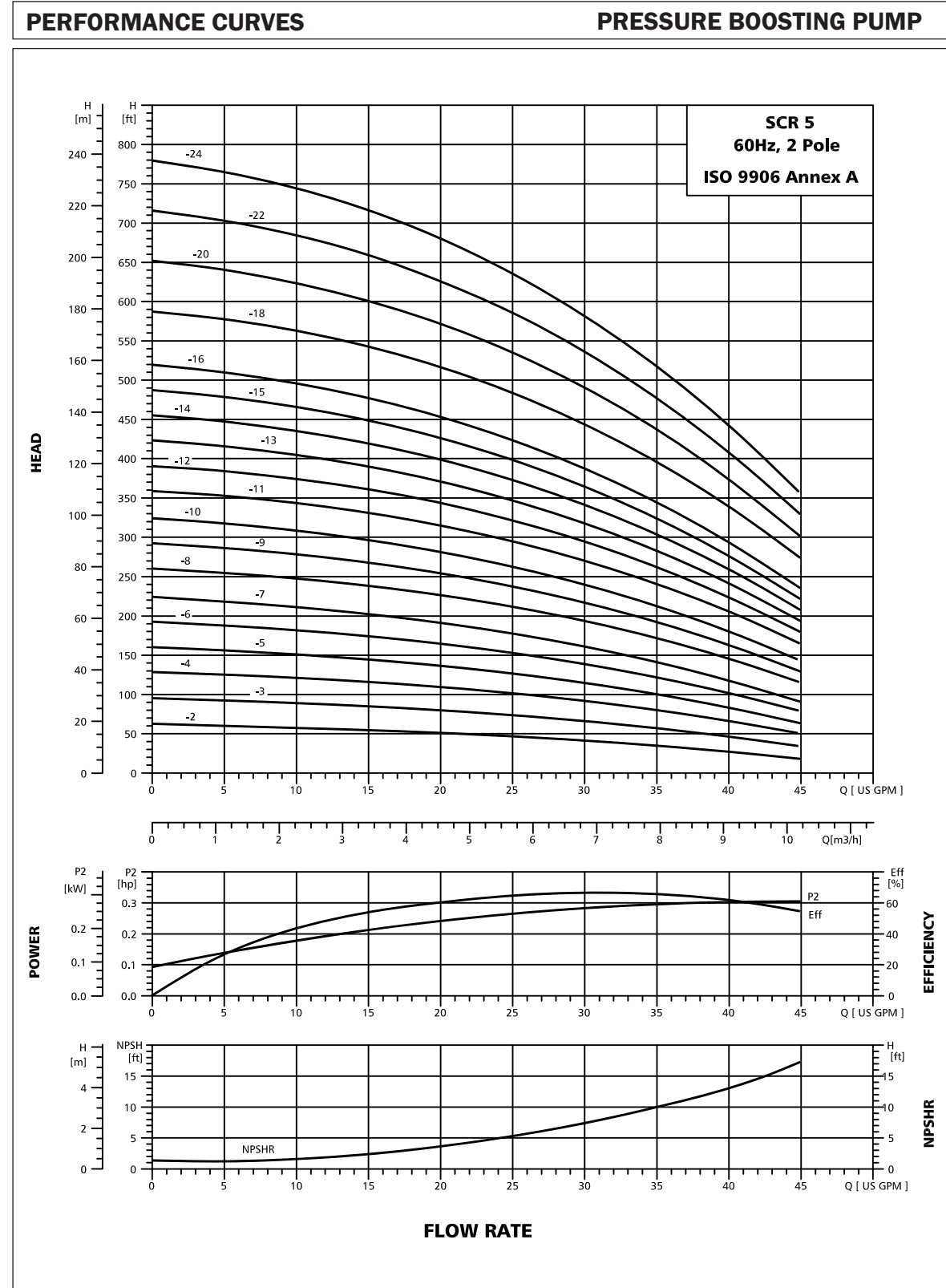
### PERFORMANCE TABLE

Model	kW	HP	Amp.	Head (Mtr.)								
				0	0.7	1.4	2.1	2.8	3.5	4.2	4.9	
SCRI, SCRN 3-2	0.37	0.5	1.50-1.44/0.87-0.83	19	18	17	16	15	13	10	7	
SCRI, SCRN 3-3	0.55	0.75	2.15-2.05/1.25-1.20	28	27	26	25	23	20	16	12	
SCRI, SCRN 3-4	0.55	0.75	2.15-2.05/1.25-1.20	38	37	36	33	30	27	23	17	
SCRI, SCRN 3-5	0.75	1	2.95-2.75/1.70-1.60	47	46	44	42	38	34	28	22	
SCRI, SCRN 3-6	1.1	1.5	4.15-4.00/2.40-2.30	57	56	54	51	47	42	35	27	
SCRI, SCRN 3-7	1.1	1.5	4.15-4.00/2.40-2.30	67	66	64	60	55	50	42	33	
SCRI, SCRN 3-8	1.1	1.5	4.15-4.00/2.40-2.30	76	75	72	68	63	56	57	36	
SCRI, SCRN 3-9	1.5	2	5.35-4.70/3.10-2.70	86	84	81	77	70	63	53	40	
SCRI, SCRN 3-10	1.5	2	5.35-4.70/3.10-2.70	95	93	90	85	79	70	59	45	
SCRI, SCRN 3-11	1.5	2	5.35-4.70/3.10-2.70	104	102	98	94	86	76	65	48	
SCRI, SCRN 3-12	2.2	3	7.70-6.35/4.45-3.70	114	101	107	101	93	83	70	53	
SCRI, SCRN 3-13	2.2	3	7.70-6.35/4.45-3.70	125	123	119	103	105	94	80	62	
SCRI, SCRN 3-15	2.2	3	7.70-6.35/4.45-3.70	144	141	136	130	120	107	91	71	
SCRI, SCRN 3-17	2.2	3	7.70-6.35/4.45-3.70	163	160	155	142	135	120	102	79	
SCRI, SCRN 3-19	3	4	10.80-9.35/6.20-5.40	181	178	171	163	150	134	114	88	
SCRI, SCRN 3-21	3	4	10.80-9.35/6.20-5.40	202	198	192	183	170	152	129	100	
SCRI, SCRN 3-23	3	4	10.80-9.35/6.20-5.40	220	216	210	200	185	165	144	109	
SCRI, SCRN 3-25	4	5.5	13.60-11.80/7.80-6.80	240	235	227	216	200	179	152	118	

- SCRI, SCRN standard voltages: 220-240Δ/380-440Y
- This performance table is approximate as a performance curve.

# PERFORMANCE CURVES

## SCR 5



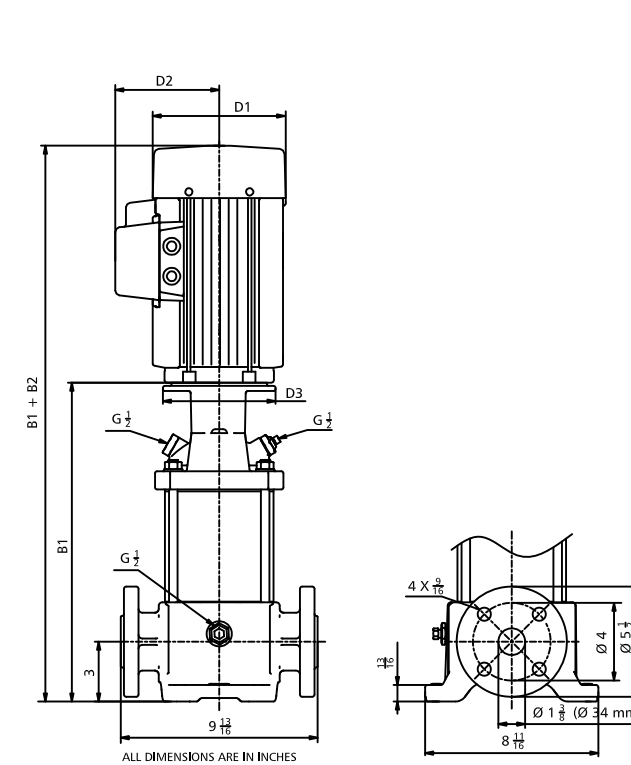
# TECHNICAL DATA

## SCR 5



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### DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

Model	Size in Inch					Weight (Lbs)
	B1	B1+B2	D1	D2	D3	
SCR 5-2	11.13	18.75	5.56	5.06	--	51
SCR 5-3	12.19	21.38	5.56	5.19	--	62
SCR 5-4	13.25	22.44	5.56	5.19	--	62
SCR 5-5	14.31	25.38	7.00	4.38	--	79
SCR 5-6	15.38	26.44	7.00	4.38	--	82
SCR 5-7	16.44	27.50	7.00	4.38	--	84
SCR 5-8	17.50	28.56	7.00	4.38	--	84
SCR 5-9	18.56	29.63	7.00	4.38	--	86
SCR 5-10	19.63	32.81	7.81	4.75	--	101
SCR 5-11	20.69	33.88	7.81	4.75	--	101
SCR 5-12	21.75	34.94	7.81	4.75	--	104
SCR 5-13	22.81	38.31	8.88	7.50	9.88	123
SCR 5-14	23.88	39.38	8.88	7.50	9.88	126
SCR 5-15	24.94	40.44	8.88	7.50	9.88	128
SCR 5-16	26.00	41.50	8.88	7.50	9.88	128
SCR 5-18	28.13	44.44	8.88	7.50	11.81	163
SCR 5-20	30.25	46.56	8.88	7.50	11.81	165
SCR 5-22	32.38	48.69	8.88	7.50	11.81	168
SCR 5-24	34.50	50.81	8.88	7.50	11.81	196

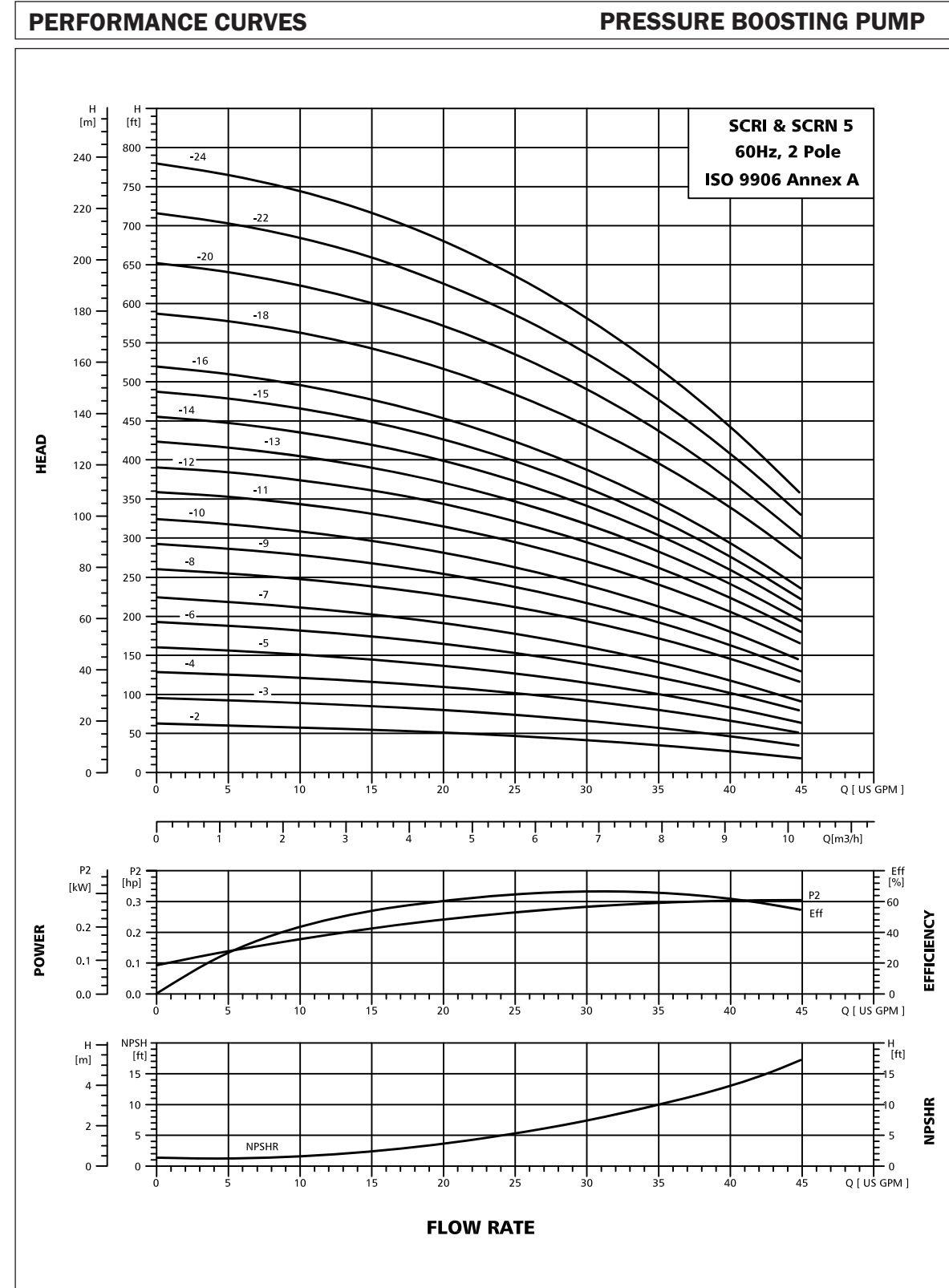
### PERFORMANCE TABLE

Model	kW	HP	Amp.	Head (Mtr.)								
				0	1.5	3	4.5	6	7.5	9	10	
SCR 5-2	0.55	0.75	2.15-2.05/1.25-1.20	19	18	17	16	13	11	8	6	
SCR 5-3	1.1	1.5	4.15-4.00/2.40-2.30	29	27	26	24	22	18	14	11	
SCR 5-4	1.1	1.5	4.15-4.00/2.40-2.30	39	37	36	34	30	26	20	16	
SCR 5-5	1.5	2	5.35-4.70/3.10-2.70	48	47	45	41	37	32	26	20	
SCR 5-6	2.2	3	7.70-6.35/4.45-3.70	58	57	54	50	45	40	32	25	
SCR 5-7	2.2	3	7.70-6.35/4.45-3.70	68	66	63	58	53	45	36	29	
SCR 5-8	2.2	3	7.70-6.35/4.45-3.70	79	77	74	69	63	55	45	37	
SCR 5-9	2.2	3	7.70-6.35/4.45-3.70	89	86	83	77	70	61	50	42	
SCR 5-10	3	4	10.80-9.35/6.20-5.40	99	96	92	86	78	68	56	46	
SCR 5-11	3	4	10.80-9.35/6.20-5.40	109	107	103	96	88	76	64	53	
SCR 5-12	3	4	10.80-9.35/6.20-5.40	119	116	112	105	95	84	69	57	
SCR 5-13	4	5.5	13.60-11.80/7.80-6.80	129	126	120	114	103	90	75	62	
SCR 5-14	4	5.5	13.60-11.80/7.80-6.80	139	145	129	122	111	97	80	66	
SCR 5-15	4	5.5	13.60-11.80/7.80-6.80	148	145	139	130	119	104	85	70	
SCR 5-16	4	5.5	13.60-11.80/7.80-6.80	158	154	147	138	126	110	90	75	
SCR 5-18	5.5	7.5	18.40-16.20/10.60/9.30	179	175	163	158	144	126	105	87	
SCR 5-20	5.5	7.5	18.40-16.20/10.60/9.30	199	194	186	174	159	140	115	96	
SCR 5-22	5.5	7.5	18.40-16.20/10.60/9.30	217	213	204	191	174	153	126	105	

- SCR standard voltages: 220-240Δ/380-440Y
- This performance table is approximate as a performance curve.

# PERFORMANCE CURVES

## SCRI, SCR N 5



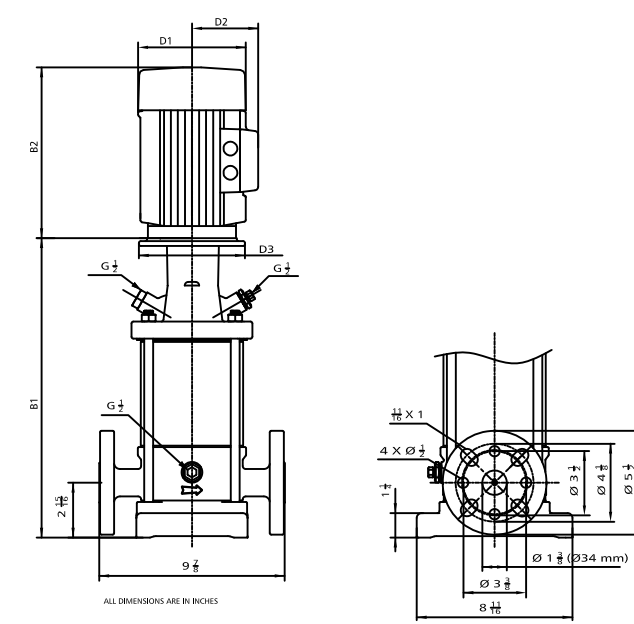
# TECHNICAL DATA

## SCRI, SCR N 5



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### DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

Model	Size in Inch					Weight (Lbs)
	B1	B1+B2	D1	D2	D3	
SCRI, SCR N 5-2	11.25	18.81	5.56	5.06	--	46
SCRI, SCR N 5-3	12.31	21.50	5.56	5.19	--	57
SCRI, SCR N 5-4	13.38	22.56	5.56	5.19	--	60
SCRI, SCR N 5-5	14.44	25.50	7.00	4.38	--	75
SCRI, SCR N 5-6	15.50	26.56	7.00	4.38	--	77
SCRI, SCR N 5-7	16.56	27.63	7.00	4.38	--	77
SCRI, SCR N 5-8	17.63	28.69	7.00	4.38	--	79
SCRI, SCR N 5-9	18.69	29.75	7.00	4.38	--	82
SCRI, SCR N 5-10	19.75	32.94	7.81	4.75	--	97
SCRI, SCR N 5-11	20.81	34.00	7.81	4.75	--	97
SCRI, SCR N 5-12	21.88	35.06	7.81	4.75	--	88
SCRI, SCR N 5-13	22.94	38.44	8.88	7.50	9.88	119
SCRI, SCR N 5-14	24.00	39.50	8.88	7.50	9.88	121
SCRI, SCR N 5-15	25.06	40.56	8.88	7.50	9.88	121
SCRI, SCR N 5-16	26.13	41.63	8.88	7.50	9.88	123
SCRI, SCR N 5-18	28.25	44.56	8.88	7.50	11.81	157
SCRI, SCR N 5-20	30.38	46.69	8.88	7.50	11.81	159
SCRI, SCR N 5-22	32.50	48.81	8.88	7.50	11.81	161
SCRI, SCR N 5-24	34.63	50.94	8.88	7.50	11.81	190

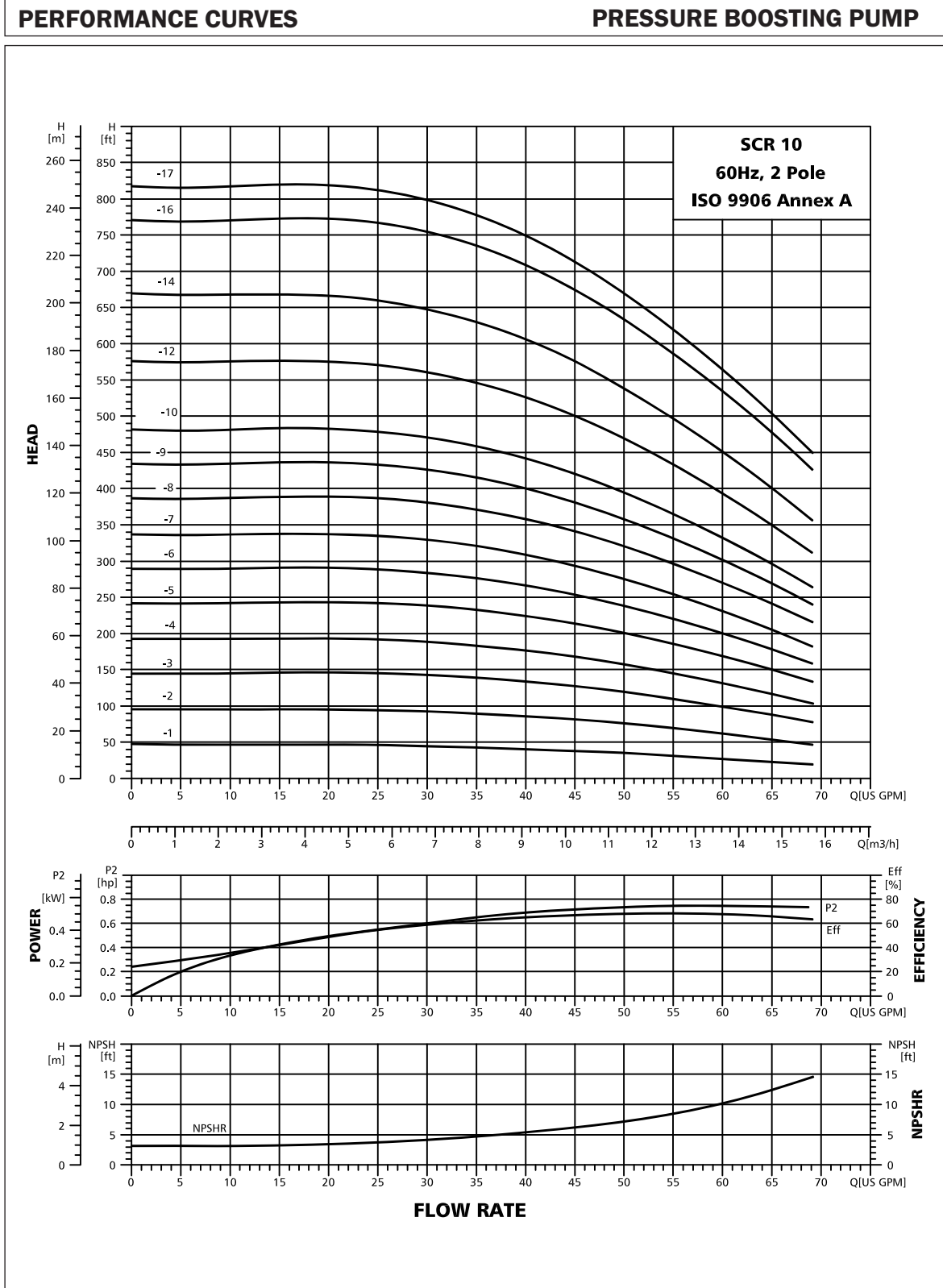
### PERFORMANCE TABLE

Model	kW	HP	Amp.	Head (Mtr.)							
				0	1.5	3	4.5	6	7.5	9	10
SCRI, SCR N 5-2	0.55	0.75	2.15-2.05/1.25-1.20	0	7	13	20	26	33	40	44
SCRI, SCR N 5-3	1.1	1.5	4.15-4.00/2.40-2.30	19	18	17	16	13	11	8	6
SCRI, SCR N 5-4	1.1	1.5	4.15-4.00/2.40-2.30	29	27	26	24	22	18	14	11
SCRI, SCR N 5-5	1.5	2	5.35-4.70/3.10-2.70	39	37	36	34	30	26	20	16
SCRI, SCR N 5-6	2.2	3	7.70-6.35/4.45-3.70	48	47	45	41	37	32	26	20
SCRI, SCR N 5-7	2.2	3	7.70-6.35/4.45-3.70	58	57	54	50	45	40	32	25
SCRI, SCR N 5-8	2.2	3	7.70-6.35/4.45-3.70	68	66	63	58	53	45	36	29
SCRI, SCR N 5-9	2.2	3	7.70-6.35/4.45-3.70	79	77	74	69	63	55	45	37
SCRI, SCR N 5-10	3	4	10.80-9.35/6.20-5.40	89	86	83	77	70	61	50	42
SCRI, SCR N 5-11	3	4	10.80-9.35/6.20-5.40	99	96	92	86	78	68	56	46
SCRI, SCR N 5-12	3	4	10.80-9.35/6.20-5.40	109	107	103	96	88	76	64	53
SCRI, SCR N 5-13	4	5.5	13.60-11.80/7.80-6.80	119	156	112	105	95	84	69	57
SCRI, SCR N 5-14	4	5.5	13.60-11.80/7.80-6.80	129	126	120	114	103	90	75	62
SCRI, SCR N 5-15	4	5.5	13.60-11.80/7.80-6.80	139	145	129	122	111	97	80	66
SCRI, SCR N 5-16	4	5.5	13.60-11.80/7.80-6.80	148	145	139	130	119	104	85	70
SCRI, SCR N 5-18	5.5	7.5	18.40-16.20/10.60/9.30	158	154	147	138	126	110	90	75
SCRI, SCR N 5-20	5.5	7.5	18.40-16.20/10.60/9.30	179	175	163	158	144	126	105	87
SCRI, SCR N 5-22	5.5	7.5	18.40-16.20/10.60/9.30	199	194	186	174	159	140	115	96
SCRI, SCR N 5-24	5.5	7.5	18.40-16.20/10.60/9.30	217	213	204	191	174	153	126	105

- SCRI, SCR N standard voltages: 220-240Δ/380-440Y
- This performance table is approximate as a performance curve.

# PERFORMANCE CURVES

## SCR 10



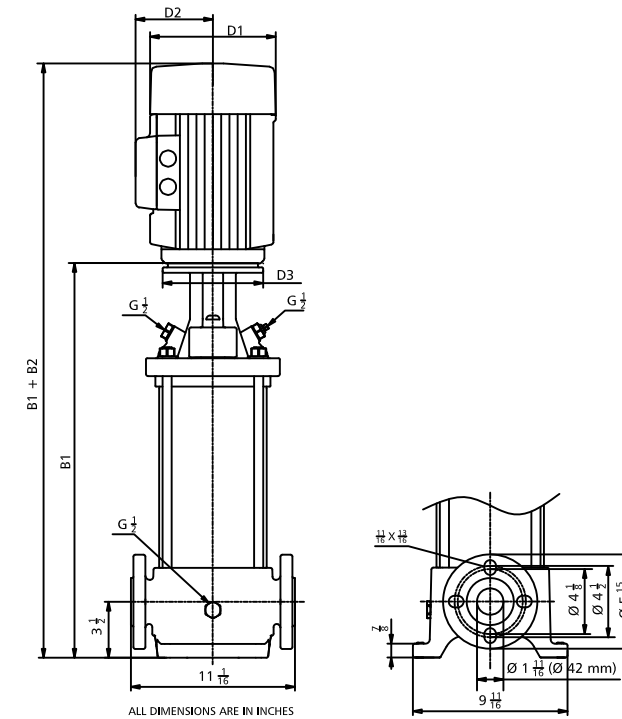
# TECHNICAL DATA

## SCR 10



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### DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

Model	Size in Inch					Weight (Lbs)
	B1	B1+B2	D1	D2	D3	
SCR 10-1	14.13	21.75	5.56	5.06	-	75
SCR 10-2	15.31	24.50	5.56	5.19	-	79
SCR 10-3	16.50	25.63	5.56	5.19	-	86
SCR 10-4	17.69	28.75	7.00	4.38	-	104
SCR 10-5	18.81	29.94	7.00	4.38	-	108
SCR 10-6	20.00	33.19	7.81	4.75	9.88	110
SCR 10-7	21.19	37.50	8.88	7.50	11.81	126
SCR 10-8	22.38	38.69	8.88	7.50	11.81	128
SCR 10-9	23.56	39.88	8.88	7.50	11.81	133
SCR 10-10	24.75	41.06	8.88	7.50	11.81	152
SCR 10-12	27.13	43.44	8.88	7.50	11.81	157
SCR 10-14	29.50	49.38	13.00	10.06	13.81	207
SCR 10-16	31.81	51.75	13.00	10.06	13.81	212
SCR 10-17	34.19	54.06	13.00	10.06	13.81	240

### PERFORMANCE TABLE

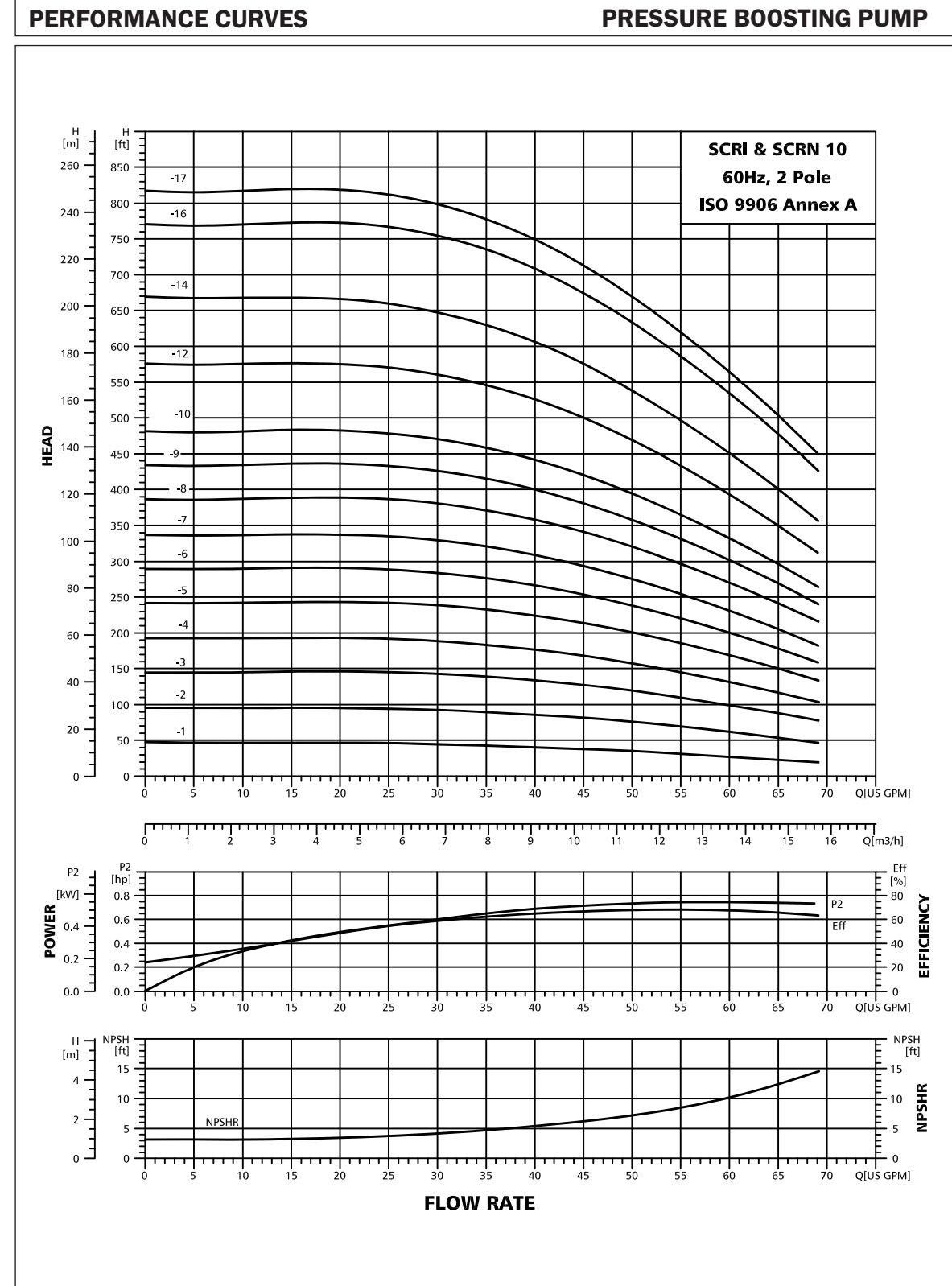
Model	kW	HP	Amp.	m³/h													
				0	3	5	7	9	11	13	15						
				US GPM													
				0	13	22	31	40	48	57	66						
SCR 10-1	0.75	1	2.95-2.75/1.70-1.60	14	14	14	13	12	11	9	7						
SCR 10-2	1.5	2	5.35-4.70/3.10-2.70	29	29	29	28	26	24	20	15						
SCR 10-3	2.2	3	7.70-6.35/4.45-3.70	44	44	43	42	40	37	32	26						
SCR 10-4	3	4	10.80-9.35/6.20-5.40	68	68	68	67	54	49	43	35						
SCR 10-5	3	4	10.80-9.35/6.20-5.40	74	74	74	73	68	63	54	44						
SCR 10-6	4	5.5	13.60-11.80/7.80-6.80	88	88	88	86	82	74	64	53						
SCR 10-7	5.5	7.5	18.40-16.20/10.60/9.30	103	103	103	100	94	86	74	61						
SCR 10-8	5.5	7.5	18.40-16.20/10.60/9.30	117	117	117	115	110	100	86	92						
SCR 10-9	5.5	7.5	18.40-16.20/10.60/9.30	133	133	133	130	122	111	97	80						
SCR 10-10	7.5	10	24.60-20.80/14.20-12.00	147	147	147	143	135	123	107	88						
SCR 10-12	7.5	10	24.60-20.80/14.20-12.00	176	176	175	170	160	146	126	104						
SCR 10-14	11	15	36.00-30.00/20.80-17.20	205	204	202	196	185	167	145	119						
SCR 10-16	11	15	36.00-30.00/20.80-17.20	245	245	245	228	216	97	172	142						
SCR 10-17	11	15	36.00-30.00/20.80-17.20	249	250	249	242	219	208	181	149						

- SCR standard voltages: 220-240Δ/380-440Y
- This performance table is approximate as a performance curve.



# PERFORMANCE CURVES

## SCRI, SCR N 10



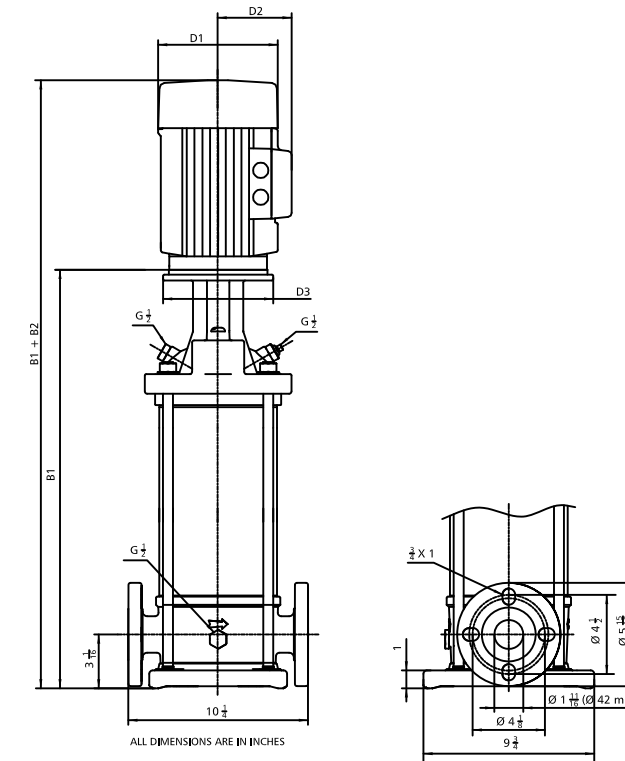
# TECHNICAL DATA

## SCRI, SCR N 10



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### DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

Model	Size in Inch					Weight (Lbs)
	B1	B1+B2	D1	D2	D3	
SCRI, SCR N 10-1	13.75	22.88	5.56	5.19	-	75
SCRI, SCR N 10-2	14.94	26.00	7.00	4.38	-	97
SCRI, SCR N 10-3	16.06	27.13	7.00	4.38	-	99
SCRI, SCR N 10-4	17.25	30.44	7.81	4.75	-	117
SCRI, SCR N 10-5	18.44	31.63	7.81	4.75	-	119
SCRI, SCR N 10-6	19.63	35.13	8.88	7.50	9.88	141
SCRI, SCR N 10-7	20.81	37.13	8.88	7.50	11.81	187
SCRI, SCR N 10-8	22.00	38.31	8.88	7.50	11.81	190
SCRI, SCR N 10-9	23.19	39.50	8.88	7.50	11.81	192
SCRI, SCR N 10-10	24.38	40.63	8.88	7.50	11.81	218
SCRI, SCR N 10-12	26.75	43.00	8.88	7.50	11.81	223
SCRI, SCR N 10-14	29.06	48.94	13.00	10.06	13.81	317
SCRI, SCR N 10-16	31.50	51.31	13.00	10.06	13.81	322
SCRI, SCR N 10-17	33.81	53.69	13.00	10.06	13.81	326

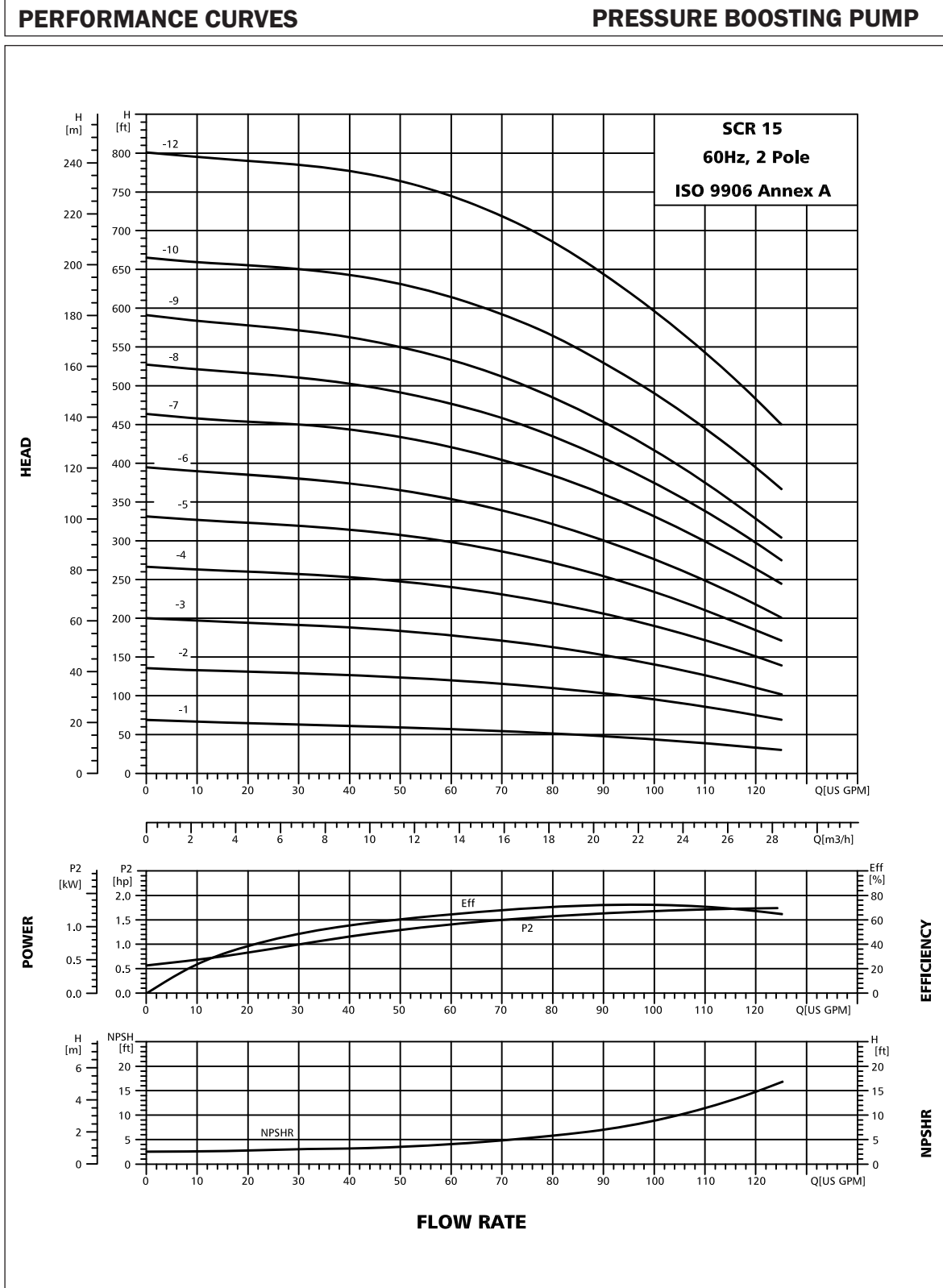
### PERFORMANCE TABLE

Model	kW	HP	Amp.	m <sup>3</sup> /h							
				0	3	5	7	9	11	13	15
SCRI, SCR N 10-1	0.75	1	2.95-2.75/1.70-1.60	14	14	14	13	12	11	9	7
SCRI, SCR N 10-2	1.5	2	5.35-4.70/3.10-2.70	29	29	29	28	26	24	20	15
SCRI, SCR N 10-3	2.2	3	7.70-6.35/4.45-3.70	44	44	43	42	40	37	32	26
SCRI, SCR N 10-4	3	4	10.80-9.35/6.20-5.40	68	68	68	67	54	49	43	35
SCRI, SCR N 10-5	3	4	10.80-9.35/6.20-5.40	74	74	74	73	68	63	54	44
SCRI, SCR N 10-6	4	5.5	13.60-11.80/7.80-6.80	88	88	88	86	82	74	64	53
SCRI, SCR N 10-7	5.5	7.5	18.40-16.20/10.60/9.30	103	103	103	100	94	86	74	61
SCRI, SCR N 10-8	5.5	7.5	18.40-16.20/10.60/9.30	117	117	117	115	110	100	86	92
SCRI, SCR N 10-9	5.5	7.5	18.40-16.20/10.60/9.30	133	133	133	130	122	111	97	80
SCRI, SCR N 10-10	7.5	10	24.60-20.80/14.20-12.00	147	147	147	143	135	123	107	88
SCRI, SCR N 10-12	7.5	10	24.60-20.80/14.20-12.00	176	176	175	170	160	146	126	104
SCRI, SCR N 10-14	11	15	36.00-30.00/20.80-17.20	205	204	202	196	185	167	145	119
SCRI, SCR N 10-16	11	15	36.00-30.00/20.80-17.20	245	245	245	228	216	97	172	142
SCRI, SCR N 10-17	11	15	36.00-30.00/20.80-17.20	249	250	249	242	219	208	181	149

- SCRI, SCR N standard voltages: 220-240Δ/380-440Y
- This performance table is approximate as a performance curve.

# PERFORMANCE CURVES

## SCR 15



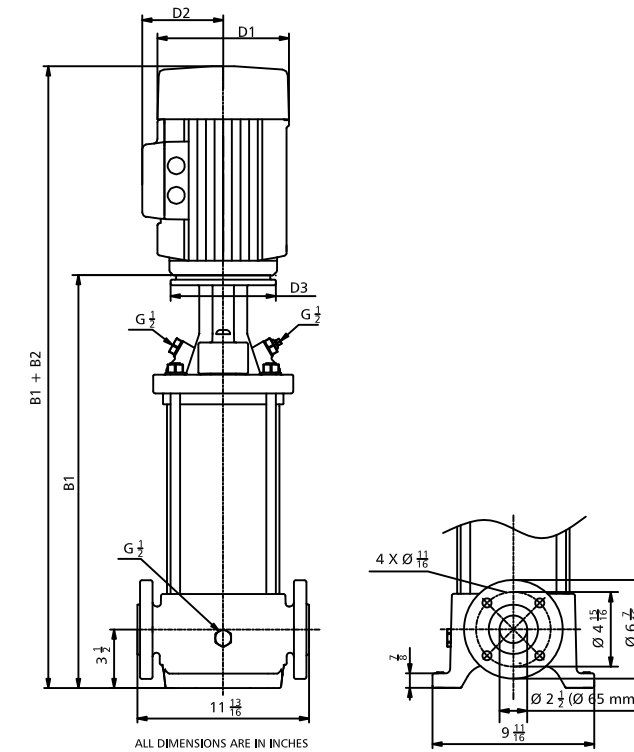
# TECHNICAL DATA

## SCR 15



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### DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

Model	Size in Inch					Weight (Lbs)
	B1	B1+B2	D1	D2	D3	
SCR 15-1	15.19	26.25	7.00	4.38	--	108
SCR 15-2	16.94	30.13	7.81	4.75	--	123
SCR 15-3	18.75	34.25	8.88	7.50	9.88	146
SCR 15-4	20.50	36.81	8.88	7.50	11.81	194
SCR 15-5	22.25	38.56	10.06	7.50	11.81	225
SCR 15-6	24.06	43.94	13.00	10.06	13.81	317
SCR 15-7	25.81	45.69	13.00	10.06	13.81	320
SCR 15-8	27.56	47.50	13.00	10.06	13.81	324
SCR 15-9	29.38	51.38	13.00	10.06	13.81	355
SCR 15-10	31.13	53.19	13.00	10.06	13.81	359
SCR 15-12	34.69	57.88	15.00	11.06	13.81	395

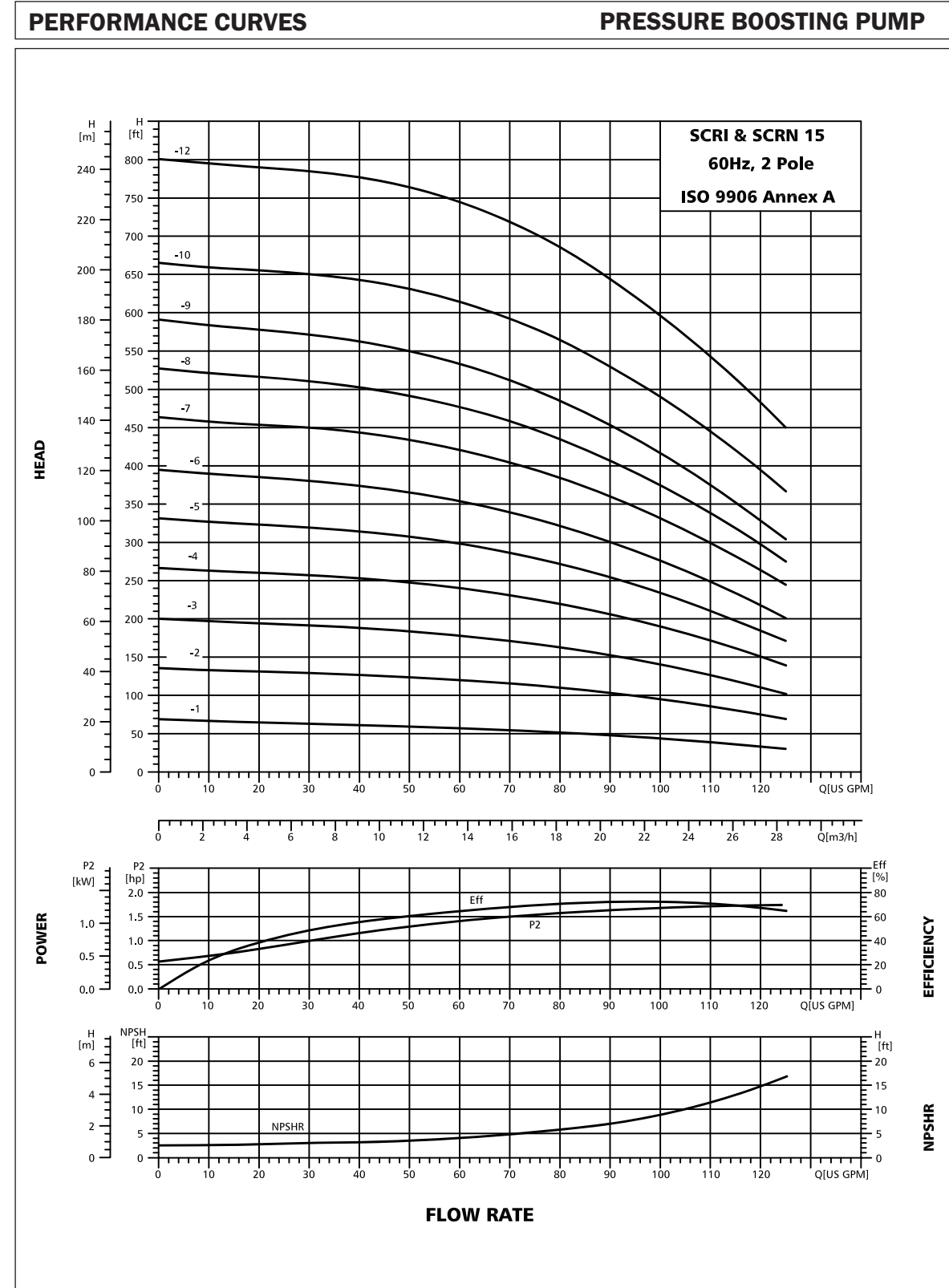
### PERFORMANCE TABLE

Model	kW	HP	Amp.	m³/h							
				0	4	8	12	16	20	24	28
SCR 15-1	1.5	2	5.35-4.70/3.10-2.70	21	20	19	18	16	15	13	9
SCR 15-2	3	4	10.80-9.35/6.20-5.40	41	40	39	37	35	32	27	22
SCR 15-3	4	5.5	13.60-11.80/7.80-6.80	61	59	57	55	52	47	40	32
SCR 15-4	5.5	7.5	18.40-16.20/10.60/9.30	81	80	77	75	70	64	55	44
SCR 15-5	7.5	10	24.60-20.80/14.20-12.00	101	199	196	193	86	78	67	53
SCR 15-6	11	15	36.00-30.00/20.80-17.20	120	117	115	110	103	93	80	63
SCR 15-7	11	15	36.00-30.00/20.80-17.20	141	139	136	131	123	111	95	76
SCR 15-8	11	15	36.00-30.00/20.80-17.20	160	157	155	149	140	125	108	86
SCR 15-9	15	20	48.50-39.00/28.00-22.40	180	176	173	166	155	140	120	95
SCR 15-10	15	20	48.50-39.00/28.00-22.40	213	200	197	191	180	164	142	115
SCR 15-12	18.5	25	59.50-48.50/34.50-28.00	244	241	238	232	119	199	172	140

- SCR standard voltages: 220-240Δ/380-440Y
- This performance table is approximate as a performance curve.

# PERFORMANCE CURVES

## SCRI, SCRN 15



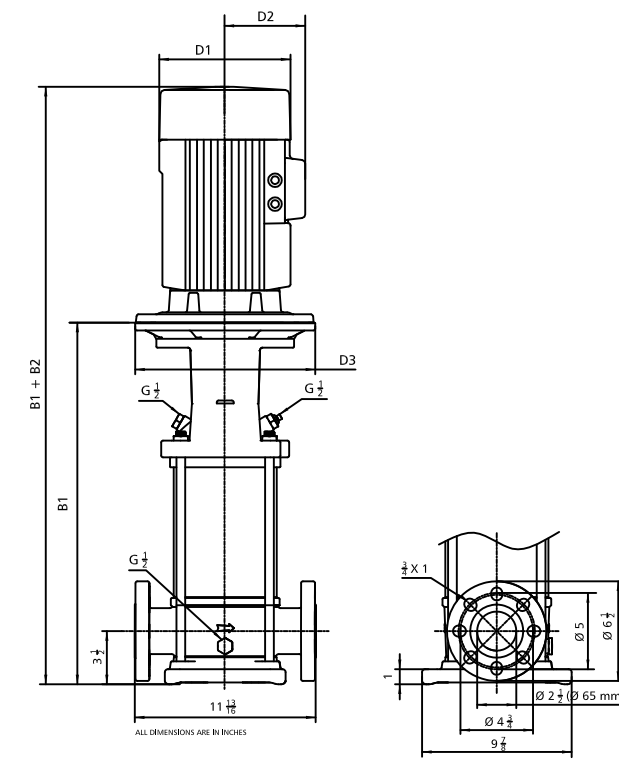
# TECHNICAL DATA

## SCRI, SCRN 15



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### DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

Model	Size in Inch					Weight (Lbs)
	B1	B1+B2	D1	D2	D3	
SCRI, SCRN 15-1	16.94	27.94	7.00	4.38	-	101
SCRI, SCRN 15-2	18.69	31.88	7.81	4.75	-	117
SCRI, SCRN 15-3	20.44	36.00	8.88	7.50	9.88	141
SCRI, SCRN 15-4	22.25	38.50	8.88	7.50	11.81	190
SCRI, SCRN 15-5	24.00	40.31	10.06	7.50	11.81	218
SCRI, SCRN 15-6	25.75	45.63	13.00	10.06	13.81	311
SCRI, SCRN 15-7	27.56	47.44	13.00	10.06	13.81	315
SCRI, SCRN 15-8	29.31	49.19	13.00	10.06	13.81	317
SCRI, SCRN 15-9	31.06	53.13	13.00	10.06	13.81	348
SCRI, SCRN 15-10	32.88	54.94	13.00	10.06	13.81	353
SCRI, SCRN 15-12	36.44	59.63	15.00	11.06	13.81	388

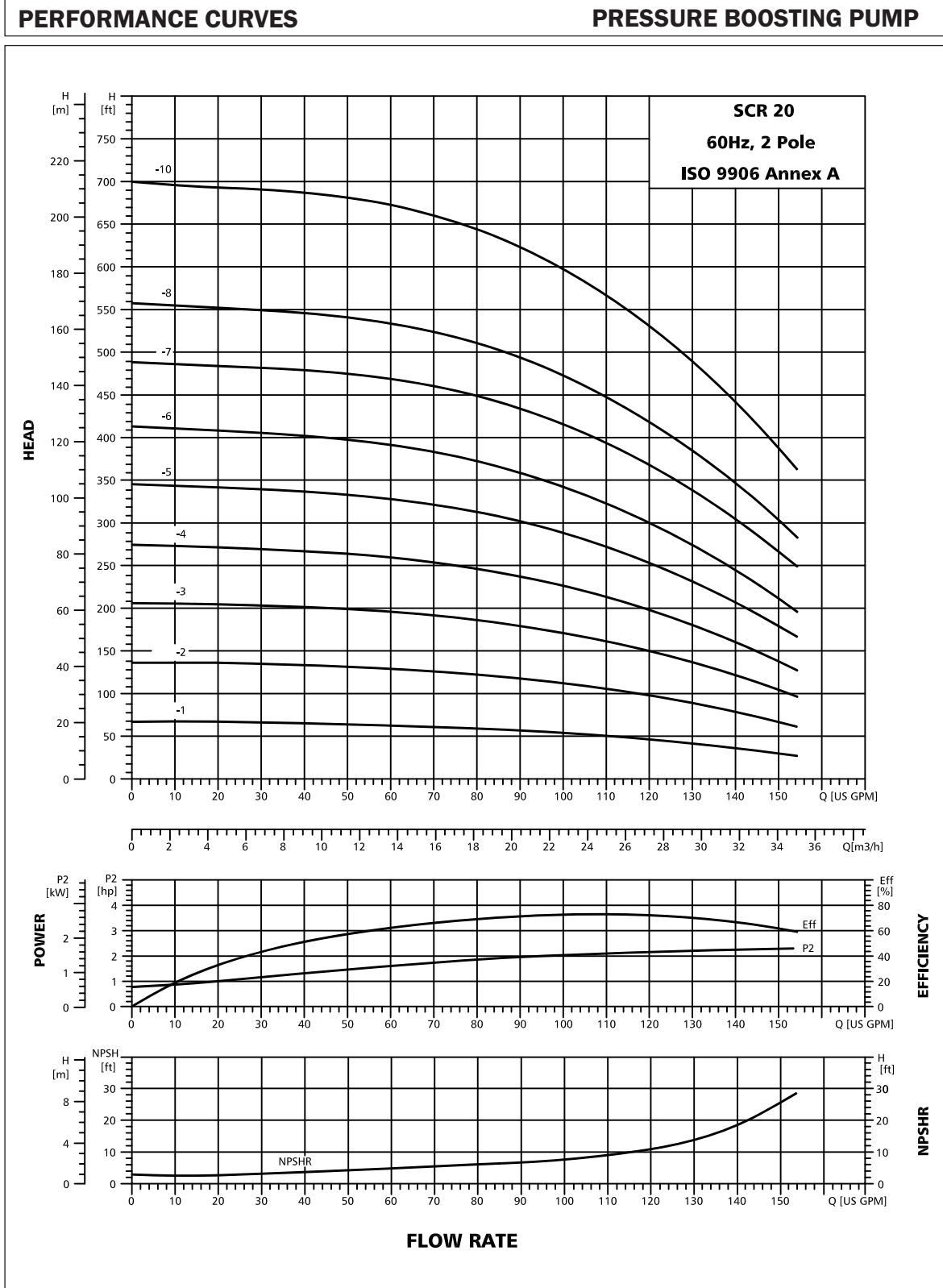
### PERFORMANCE TABLE

Model	kW	HP	Amp.	Head (Mtr.)							
				m³/h	0	4	8	12	16	20	24
SCRI, SCRN 15-1	1.5	2	5.35-4.70/3.10-2.70	21	20	19	18	16	15	13	9
SCRI, SCRN 15-2	3	4	10.80-9.35/6.20-5.40	41	40	39	37	35	32	27	22
SCRI, SCRN 15-3	4	5.5	13.60-11.80/7.80-6.80	61	59	57	55	52	47	40	32
SCRI, SCRN 15-4	5.5	7.5	18.40-16.20/10.60/9.30	81	80	77	75	70	64	55	44
SCRI, SCRN 15-5	7.5	10	24.60-20.80/14.20-12.00	101	199	196	193	86	78	67	53
SCRI, SCRN 15-6	11	15	36.00-30.00/20.80-17.20	120	117	115	110	103	93	80	63
SCRI, SCRN 15-7	11	15	36.00-30.00/20.80-17.20	141	139	136	131	123	111	95	76
SCRI, SCRN 15-8	11	15	36.00-30.00/20.80-17.20	160	157	155	149	140	125	108	86
SCRI, SCRN 15-9	15	20	48.50-39.00/28.00-22.40	180	176	173	166	155	140	120	95
SCRI, SCRN 15-10	15	20	48.50-39.00/28.00-22.40	213	200	197	191	180	164	142	115
SCRI, SCRN 15-12	18.5	25	59.50-48.50/34.50-28.00	244	241	238	232	119	199	172	140

- SCRI, SCRN standard voltages: 220-240Δ/380-440Y
- This performance table is approximate as a performance curve.

# PERFORMANCE CURVES

## SCR 20

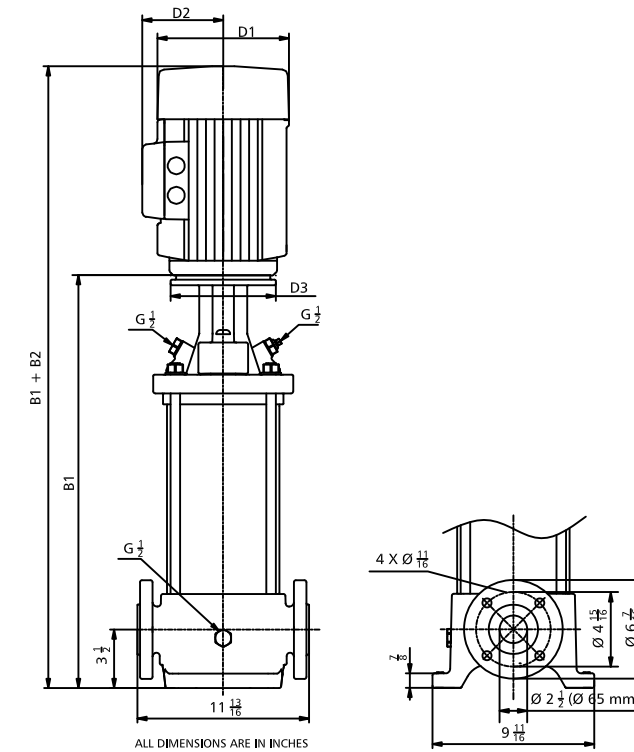


# TECHNICAL DATA

## SCR 20



### DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

Model	Size in Inch					Weight (Lbs)
	B1	B1+B2	D1	D2	D3	
SCR 20-1	19.19	30.25	7.00	4.38	--	110
SCR 20-2	21.00	36.50	7.81	7.50	9.88	143
SCR 20-3	22.75	39.06	8.88	7.50	11.81	192
SCR 20-4	24.50	40.81	8.88	7.50	11.81	220
SCR 20-5	26.31	46.19	13.00	10.06	13.81	313
SCR 20-6	28.06	47.94	13.00	10.06	13.81	317
SCR 20-7	29.81	51.88	13.00	10.06	13.81	346
SCR 20-8	31.63	53.63	13.00	10.06	13.81	351
SCR 20-10	35.13	58.38	15.00	11.06	13.81	388

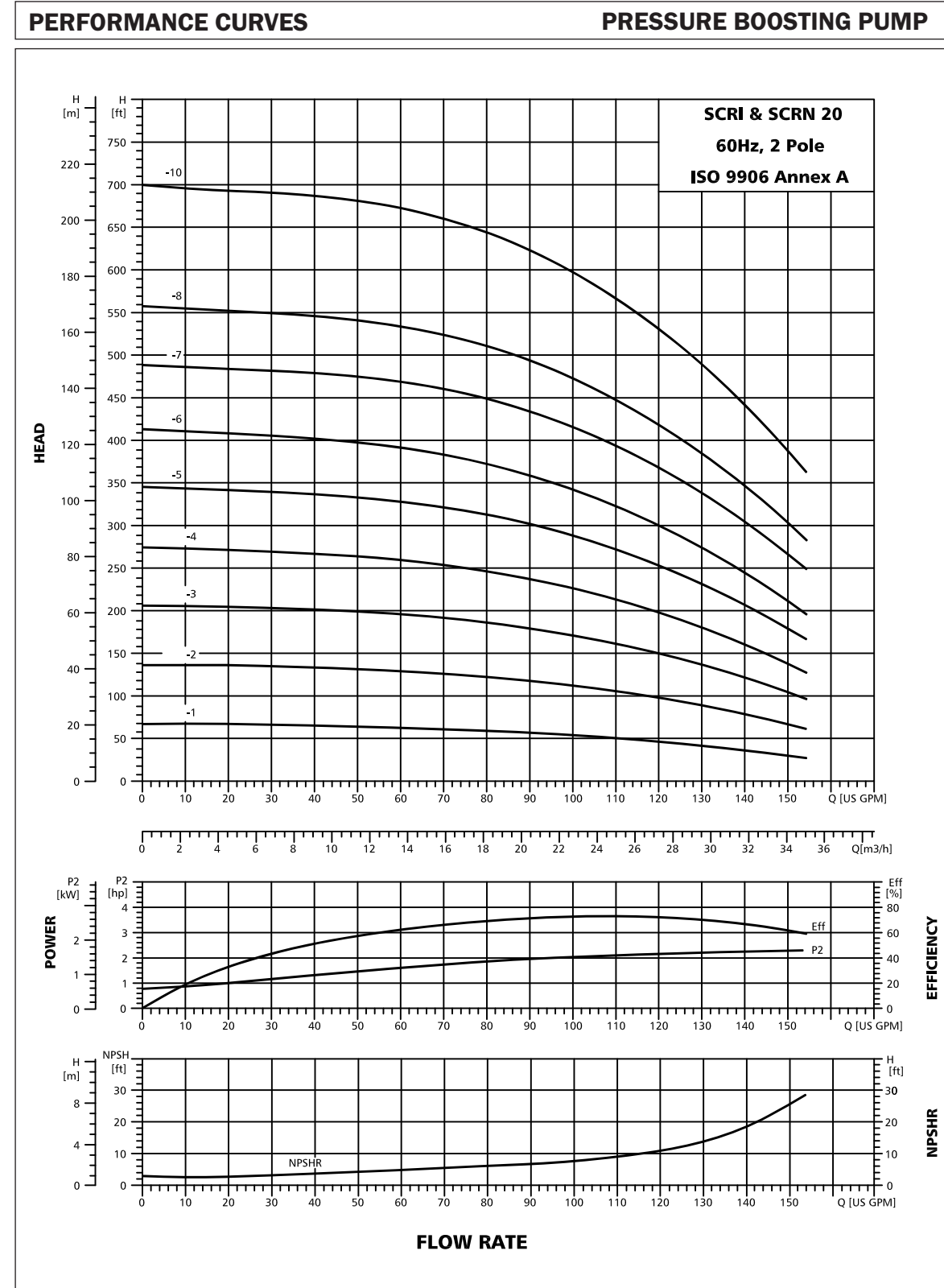
### PERFORMANCE TABLE

Model	kW	HP	Amp.	Head (Mtr.)							
				m³/h	0	5	10	15	20	25	30
SCR 20-1	2.2	3	7.70-6.35/4.45-3.70	0	20	19	18	17	15	12	8
SCR 20-2	4	5.5	13.60-11.80/7.80-6.80	0	22	44	66	88	110	132	154
SCR 20-3	5.5	7.5	18.40-16.20/10.60/9.30	20	20	40	38	36	32	27	18
SCR 20-4	7.5	10	24.60-20.80/14.20-12.00	63	62	61	59	55	48	40	29
SCR 20-5	11	15	36.00-30.00/20.80-17.20	84	83	81	78	72	65	54	39
SCR 20-6	11	15	36.00-30.00/20.80-17.20	105	104	102	98	92	83	69	50
SCR 20-7	15	20	48.50-39.00/28.00-22.40	125	124	121	117	110	97	82	60
SCR 20-8	15	20	48.50-39.00/28.00-22.40	148	147	145	140	132	120	100	75
SCR 20-10	18.5	25	59.50-48.50/34.50-28.00	169	167	165	160	151	136	114	86
				213	210	208	202	190	172	146	110

- SCR standard voltages: 220-240Δ/380-440Y
- This performance table is approximate as a performance curve.

# PERFORMANCE CURVES

## SCRI, SCRn 20



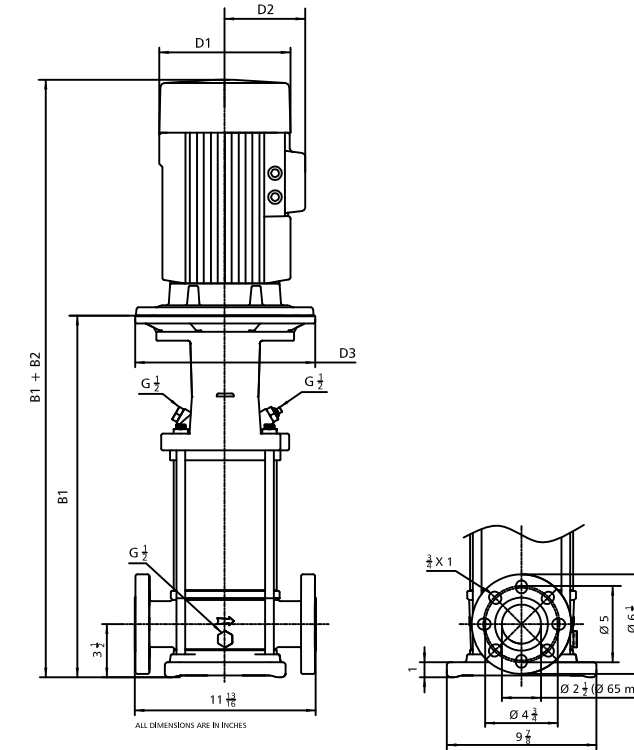
# TECHNICAL DATA

## SCRI, SCRn 20



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### DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

Model	Size in Inch					Weight (Lbs)
	B1	B1+B2	D1	D2	D3	
SCRI, SCRn 20-1	19.31	30.38	7.00	4.38	-	104
SCRI, SCRn 20-2	21.06	36.63	7.81	7.50	9.88	137
SCRI, SCRn 20-3	22.88	39.19	8.88	7.50	11.81	185
SCRI, SCRn 20-4	24.63	40.94	8.88	7.50	11.81	216
SCRI, SCRn 20-5	26.44	46.25	13.00	10.06	13.81	306
SCRI, SCRn 20-6	28.19	48.06	13.00	10.06	13.81	311
SCRI, SCRn 20-7	30.00	52.00	13.00	10.06	13.81	342
SCRI, SCRn 20-8	31.75	53.75	13.00	10.06	13.81	344
SCRI, SCRn 20-10	35.25	58.50	15.00	11.06	13.81	381

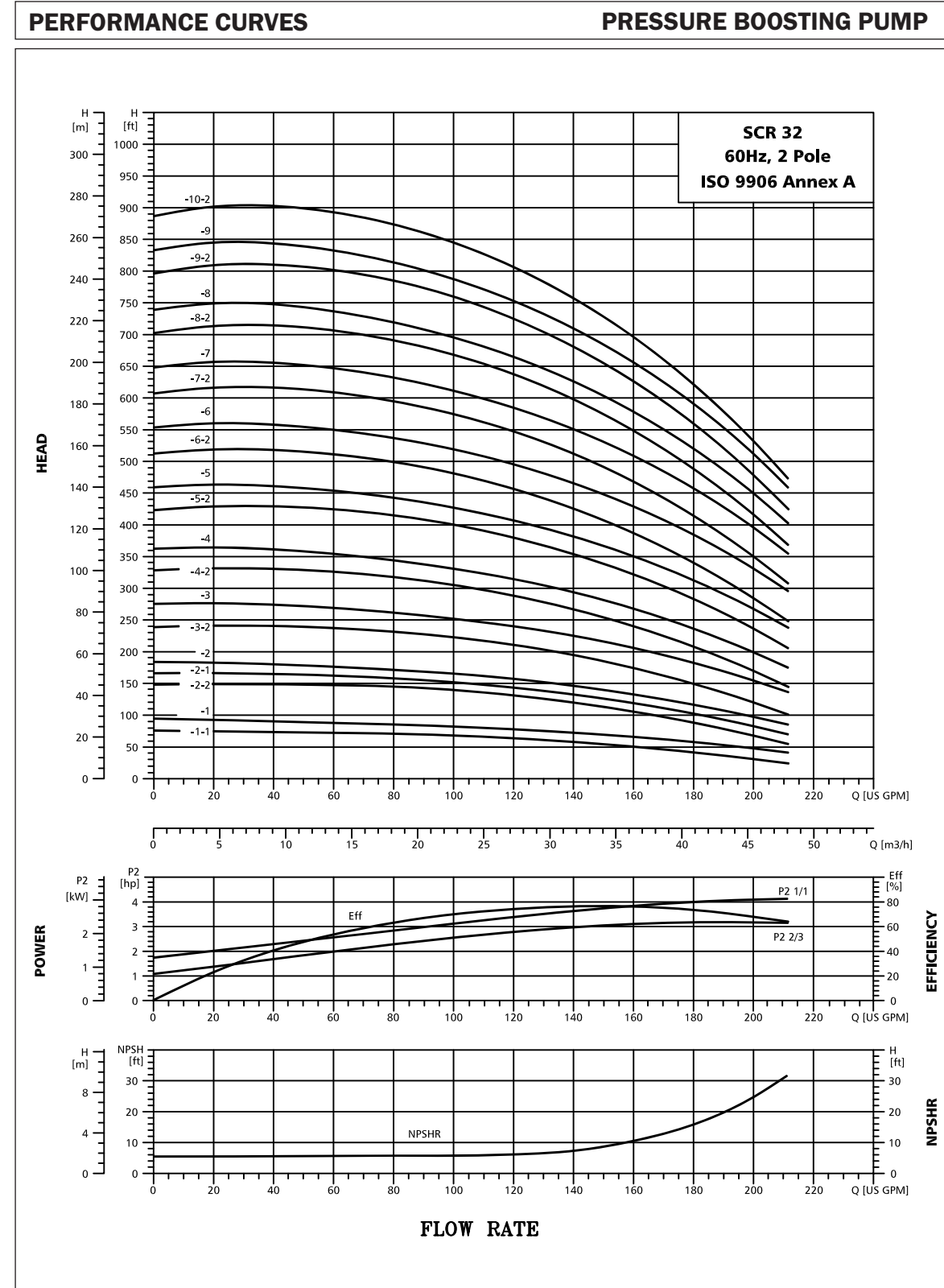
### PERFORMANCE TABLE

Model	kW	HP	Amp.	Head (Mtr.)								
				m <sup>3</sup> /h	0	5	10	15	20	25	30	35
				US GPM	0	22	44	66	88	110	132	154
SCRI, SCRn 20-1	2.2	3	7.70-6.35/4.45-3.70	20	20	19	18	17	15	12	8	
SCRI, SCRn 20-2	4	5.5	13.60-11.80/7.80-6.80	41	41	40	38	36	32	27	18	
SCRI, SCRn 20-3	5.5	7.5	18.40-16.20/10.60/9.30	63	62	61	59	55	48	40	29	
SCRI, SCRn 20-4	7.5	10	24.60-20.80/14.20-12.00	84	83	81	78	72	65	54	39	
SCRI, SCRn 20-5	11	15	36.00-30.00/20.80-17.20	105	104	102	98	92	83	69	50	
SCRI, SCRn 20-6	11	15	36.00-30.00/20.80-17.20	125	124	121	117	110	97	82	60	
SCRI, SCRn 20-7	15	20	48.50-39.00/28.00-22.40	148	147	145	140	132	120	100	75	
SCRI, SCRn 20-8	15	20	48.50-39.00/28.00-22.40	169	167	165	160	151	136	114	86	
SCRI, SCRn 20-10	18.5	25	59.50-48.50/34.50-28.00	213	210	208	202	190	172	146	110	

- SCRI, SCRn standard voltages: 220-240Δ/380-440Y
- This performance table is approximate as a performance curve.

# PERFORMANCE CURVES

## SCR 32



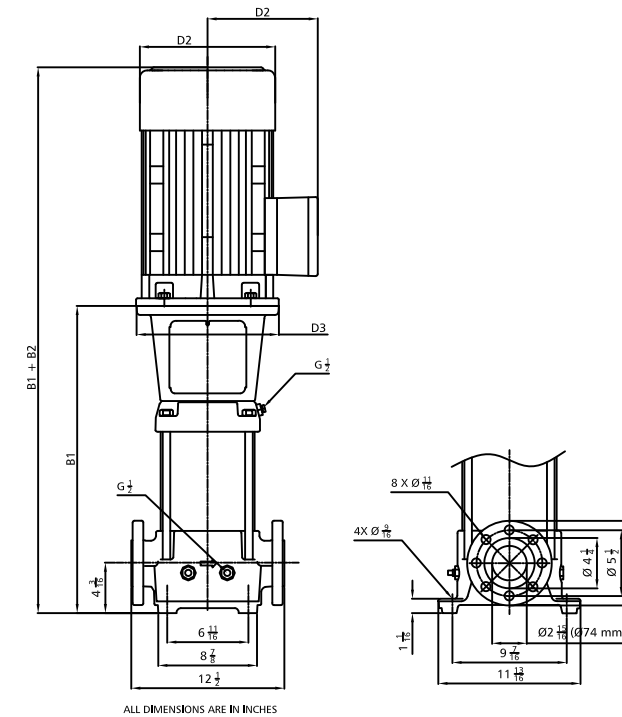
# TECHNICAL DATA

## SCR 32



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### DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

Model	Size in Inch					Weight (Lbs)
	B1	B1+B2	D1	D2	D3	
SCR 32-1-1	24.38	35.44	7.00	4.38	-	141
SCR 32-1	24.38	37.56	7.81	4.75	-	154
SCR 32-2-2	27.13	43.44	8.88	7.50	11.81	205
SCR 32-2-1	27.13	43.44	8.88	7.50	11.81	205
SCR 32-2	27.13	43.44	8.88	7.50	11.81	231
SCR 32-3-2	29.88	49.75	13.00	10.06	13.81	335
SCR 32-3	29.88	49.75	13.00	10.06	13.81	335
SCR 32-4-2	32.63	52.50	13.00	10.06	13.81	342
SCR 32-4	32.63	54.69	13.00	10.06	13.81	370
SCR 32-5-2	35.38	57.44	13.00	10.06	13.81	377
SCR 32-5	35.38	58.63	15.00	11.06	13.81	406
SCR 32-6-2	38.13	61.38	15.00	11.06	13.81	412
SCR 32-6	38.13	61.38	15.00	11.06	13.81	412
SCR 32-7-2	40.88	65.69	15.00	11.06	13.81	450
SCR 32-7	40.88	66.69	15.00	11.06	13.81	450
SCR 32-8-2	43.63	69.63	16.56	12.00	15.75	688
SCR 32-8	43.63	69.63	16.56	12.00	15.75	688
SCR 32-9-2	46.44	72.38	16.56	12.00	15.75	694
SCR 32-9	46.44	72.38	16.56	12.00	15.75	694
SCR 32-10-2	49.19	75.13	16.56	12.00	15.75	703

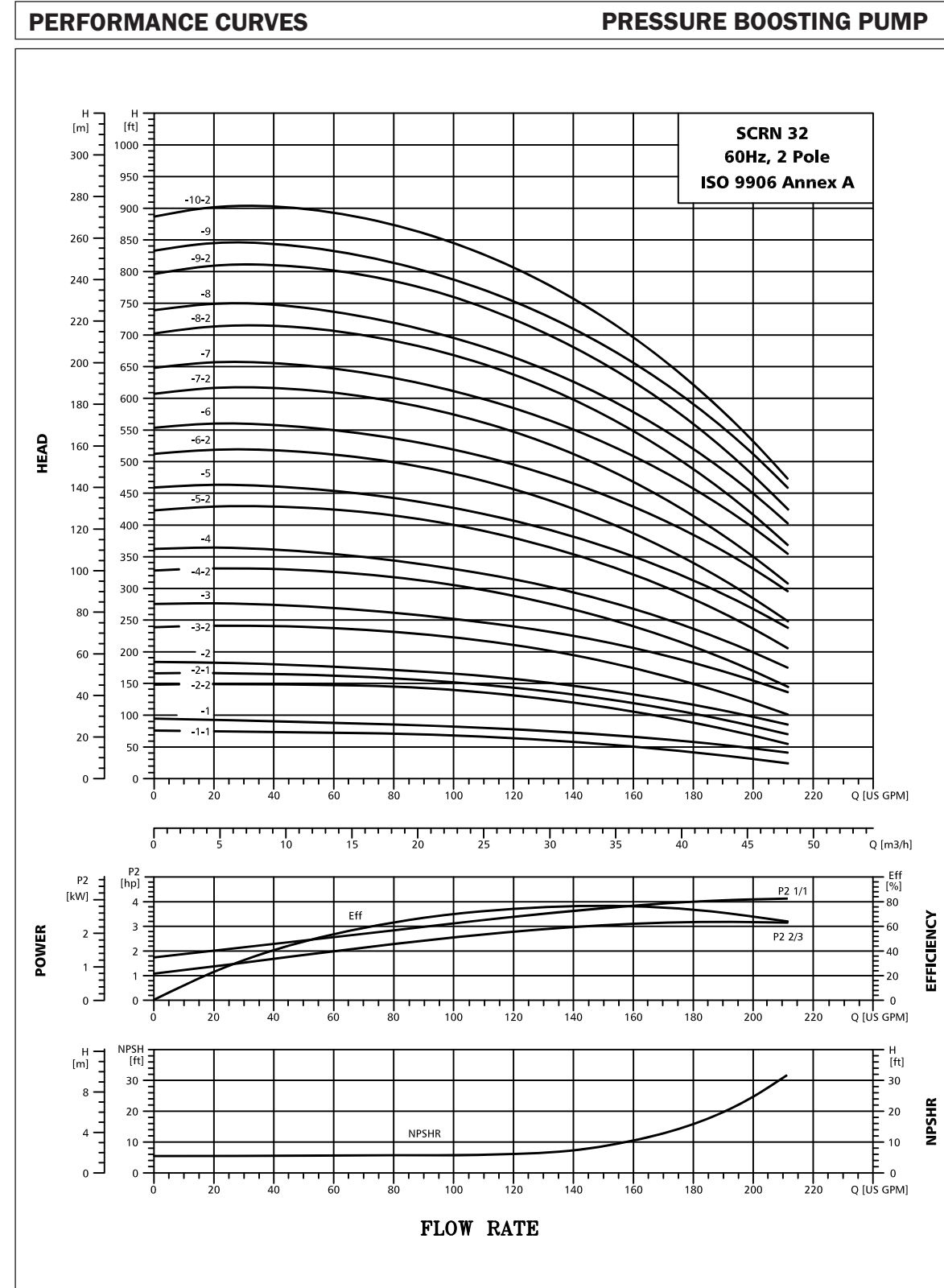
### PERFORMANCE TABLE

Model	kW	HP	Amp.	Head (Mtr.)							
				0	6	12	18	24	30	36	42
SCR 32-1-1	2.2	3	7.70-6.35/4.45-3.70	0	6	12	18	24	30	36	42
SCR 32-1	3	4	10.80-9.35/6.20-5.40	0	26	53	79	106	132	159	185
SCR 32-2-2	5.5	7.5	18.40-16.20/10.60/9.30	24	23	22	21	20	18	15	12
SCR 32-2-1	5.5	7.5	18.40-16.20/10.60/9.30	29	28	27	26	24	23	20	16
SCR 32-2	7.5	10	24.60-20.80/14.20-12.00	45	45	45	44	42	38	33	25
SCR 32-3-2	11	15	36.00-30.00/20.80-17.20	40	40	39	37	10	42	37	30
SCR 32-3	11	15	36.00-30.00/20.80-17.20	56	55	54	52	50	46	40	34
SCR 32-4-2	11	15	36.00-30.00/20.80-17.20	77	78	77	75	67	62	54	43
SCR 32-4	15	20	48.50-39.00/28.00-22.40	84	84	83	80	76	71	63	54
SCR 32-5-2	15	20	48.50-39.00/28.00-22.40	100	101	100	97	92	84	74	60
SCR 32-5	18.5	25	59.50-48.50/34.50-28.00	110	111	109	105	99	92	82	69
SCR 32-6-2	18.5	25	59.50-48.50/34.50-28.00	129	131	130	126	120	111	98	83
SCR 32-6	18.5	25	59.50-48.50/34.50-28.00	140	141	139	135	128	120	107	92
SCR 32-7-2	22	30	69.50-56.50/40.00-32.00	156	158	157	152	145	134	119	100
SCR 32-7	22	30	69.50-56.50/40.00-32.00	169	171	169	164	156	146	132	113
SCR 32-8-2	30*	40	55.00-50.00/31.50-29.00	185	187	186	181	173	160	144	122
SCR 32-8	30*	40	55.00-50.00/31.50-29.00	197	200	198	193	184	172	156	135
SCR 32-9-2	30*	40	55.00-50.00/31.50-29.00	214	217	216	211	201	187	168	144
SCR 32-9	30*	40	55.00-50.00/31.50-29.00	225	229	225	220	210	196	176	154
SCR 32-10-2	30*	40	55.00-50.00/31.50-29.00	243	246	245	240	229	213	192	165
				254	257	255	248	237	221	201	174
				270	275	274	266	254	237	214	183

- SCR standard voltages: 220-240Δ/380-440Y
- \* 380-420Δ/660-725Y
- This performance table is approximate as a performance curve.

# PERFORMANCE CURVES

## SCRN 32



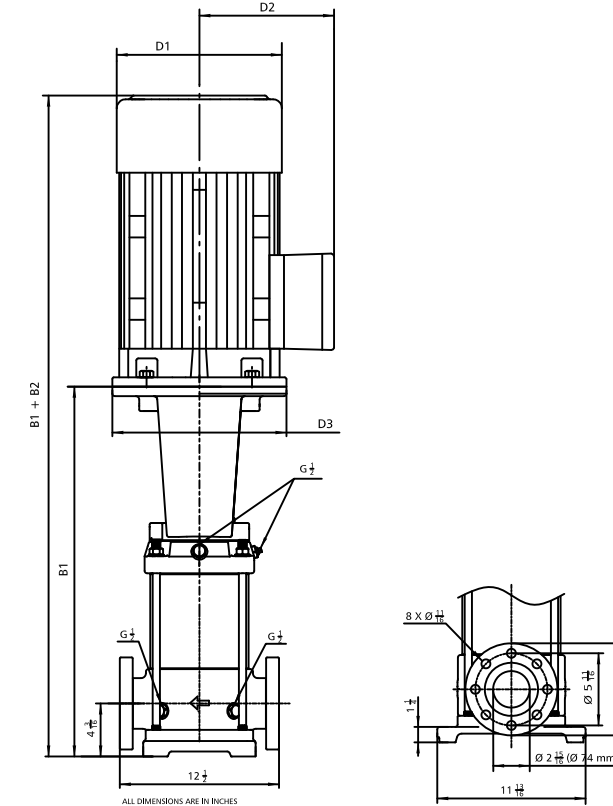
# TECHNICAL DATA

## SCRN 32



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### DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

Model	Size in Inch					Weight (Lbs)
	B1	B1+B2	D1	D2	D3	
SCRN 32-1-1	24.38	35.44	7.00	4.38	-	146
SCRN 32-1	24.38	37.56	7.81	4.75	-	159
SCRN 32-2-2	27.13	43.44	8.88	7.50	11.81	209
SCRN 32-2-1	27.13	43.44	8.88	7.50	11.81	209
SCRN 32-2	27.13	43.44	8.88	7.50	11.81	236
SCRN 32-3-2	29.88	49.75	13.00	10.06	13.81	340
SCRN 32-3	29.88	49.75	13.00	10.06	13.81	340
SCRN 32-4-2	32.63	52.50	13.00	10.06	13.81	346
SCRN 32-4	32.63	54.69	13.00	10.06	13.81	375
SCRN 32-5-2	35.38	57.44	13.00	10.06	13.81	381
SCRN 32-5	35.38	58.63	15.00	11.06	13.81	410
SCRN 32-6-2	38.13	61.38	15.00	11.06	13.81	417
SCRN 32-6	38.13	61.38	15.00	11.06	13.81	417
SCRN 32-7-2	40.88	65.69	15.00	11.06	13.81	454
SCRN 32-7	40.88	66.69	15.00	11.06	13.81	454
SCRN 32-8-2	43.63	69.63	16.56	12.00	15.75	692
SCRN 32-8	43.63	69.63	16.56	12.00	15.75	692
SCRN 32-9-2	46.44	72.38	16.56	12.00	15.75	701
SCRN 32-9	46.44	72.38	16.56	12.00	15.75	701
SCRN 32-10-2	49.19	75.13	16.56	12.00	15.75	708

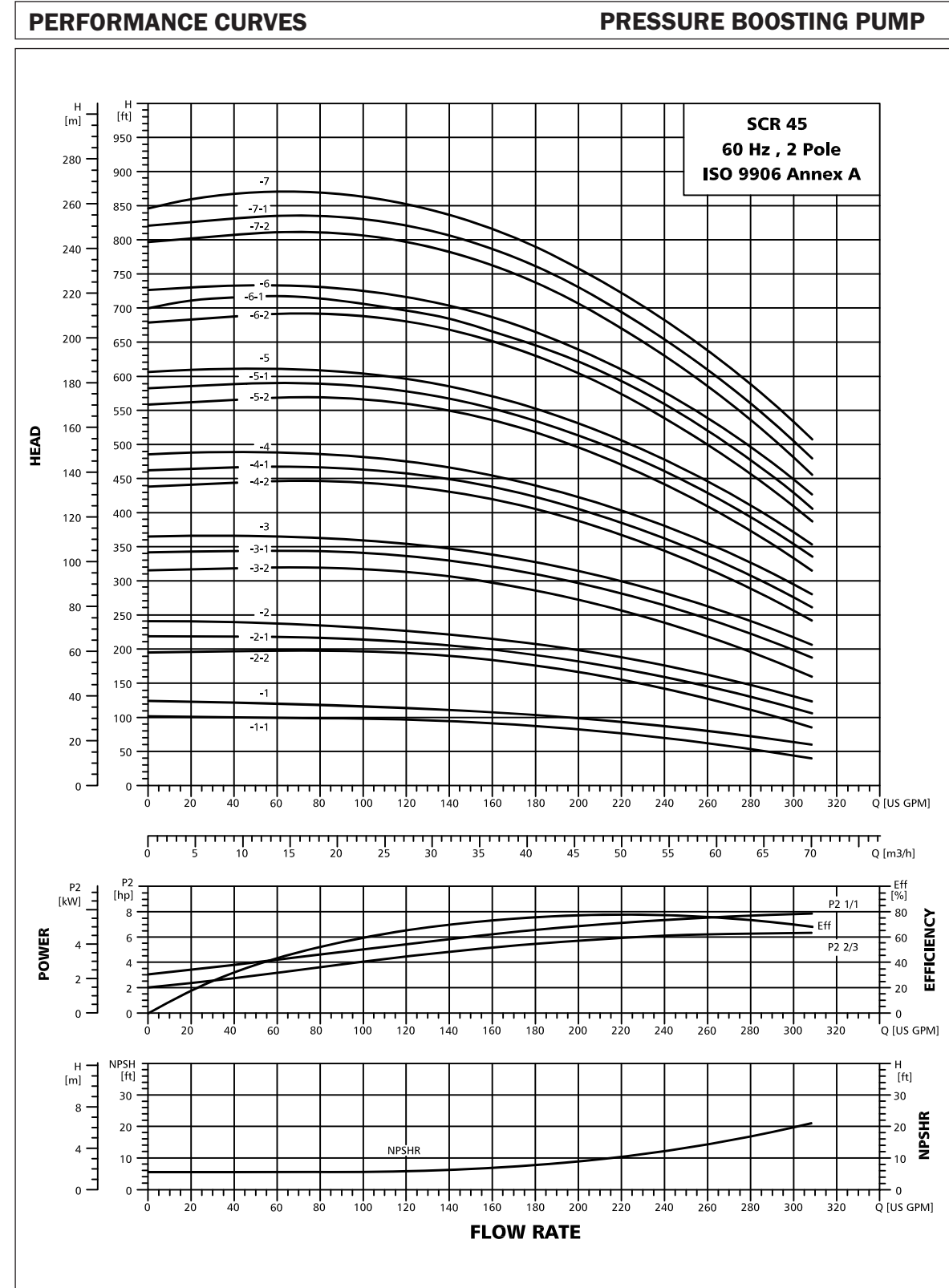
### PERFORMANCE TABLE

Model	kW	HP	Amp.	Head (Mtr.)								
				0	6	12	18	24	30	36	42	
SCRN 32-1-1	2.2	3	7.70-6.35/4.45-3.70	24	23	22	21	20	18	15	12	
SCRN 32-1	3	4	10.80-9.35/6.20-5.40	29	28	27	26	24	23	20	16	
SCRN 32-2-2	5.5	7.5	18.40-16.20/10.60/9.30	45	45	45	44	42	38	33	25	
SCRN 32-2-1	5.5	7.5	18.40-16.20/10.60/9.30	40	40	39	37	10	42	37	30	
SCRN 32-2	7.5	10	24.60-20.80/14.20-12.00	56	55	54	52	50	46	40	34	
SCRN 32-3-2	11	15	36.00-30.00/20.80-17.20	77	78	77	75	67	62	54	43	
SCRN 32-3	11	15	36.00-30.00/20.80-17.20	84	84	83	80	76	71	63	54	
SCRN 32-4-2	11	15	36.00-30.00/20.80-17.20	100	101	100	97	92	84	74	60	
SCRN 32-4	15	20	48.50-39.00/28.00-22.40	110	111	109	105	99	92	82	69	
SCRN 32-5-2	15	20	48.50-39.00/28.00-22.40	129	131	130	126	120	111	98	83	
SCRN 32-5	18.5	25	59.50-48.50/34.50-28.00	140	141	139	135	128	120	107	92	
SCRN 32-6-2	18.5	25	59.50-48.50/34.50-28.00	156	158	157	152	145	134	119	100	
SCRN 32-6	18.5	25	59.50-48.50/34.50-28.00	169	171	169	164	156	146	132	113	
SCRN 32-7-2	22	30	69.50-56.50/40.00-32.00	185	187	186	181	173	160	144	122	
SCRN 32-7	22	30	69.50-56.50/40.00-32.00	197	200	198	193	184	172	156	135	
SCRN 32-8-2	30*	40	55.00-50.00/31.50-29.00	214	217	216	211	201	187	168	144	
SCRN 32-8	30*	40	55.00-50.00/31.50-29.00	225	229	225	220	210	196	176	154	
SCRN 32-9-2	30*	40	55.00-50.00/31.50-29.00	243	246	245	240	229	213	192	165	
SCRN 32-9	30*	40	55.00-50.00/31.50-29.00	254	257	255	248	237	221	201	174	
SCRN 32-10-2	30*	40	55.00-50.00/31.50-29.00	270	275	274	266	254	237	214	183	

- SCRN standard voltages: 220-240Δ/380-440Y
- \* 380-420Δ/660-725Y
- This performance table is approximate as a performance curve.

# PERFORMANCE CURVES

## SCR 45



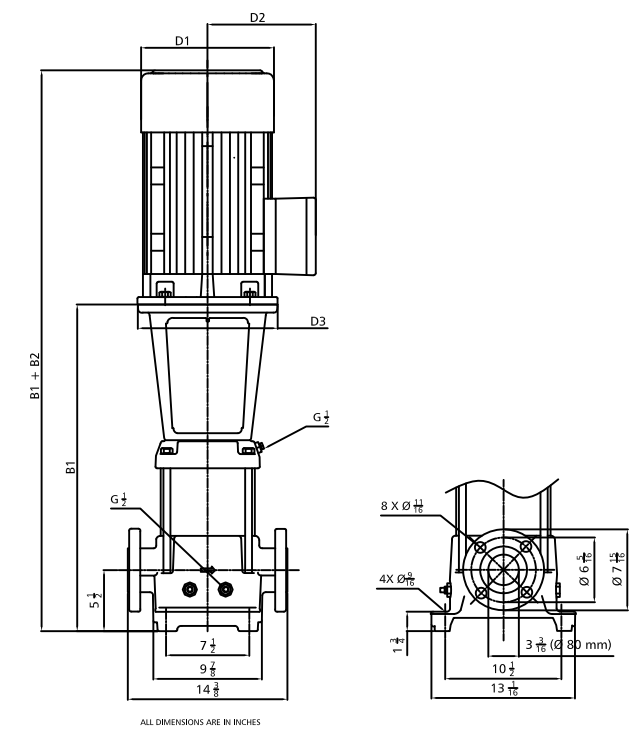
# TECHNICAL DATA

## SCR 45



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### DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

Model	Size in Inch					Weight (Lbs)
	B1	B1+B2	D1	D2	D3	
SCR 45-1-1	22.13	38.44	8.88	7.50	11.81	220
SCR 45-1	22.13	38.44	8.88	7.50	11.81	247
SCR 45-2-2	25.25	45.13	13.00	10.06	13.81	351
SCR 45-2-1	25.25	45.13	13.00	10.06	13.81	351
SCR 45-2	25.25	47.31	13.00	10.06	13.81	379
SCR 45-3-2	28.44	51.63	15.00	11.06	13.81	417
SCR 45-3-1	28.44	51.63	15.00	11.06	13.81	417
SCR 45-3	28.44	51.63	15.00	11.06	13.81	417
SCR 45-4-2	31.56	56.38	15.00	11.06	13.81	456
SCR 45-4-1	31.56	57.56	16.56	12.00	15.75	681
SCR 45-4	31.56	57.56	16.56	12.00	15.75	681
SCR 45-5-2	36.69	60.69	16.56	12.00	15.75	690
SCR 45-5-1	36.69	60.69	16.56	12.00	15.75	690
SCR 45-5	36.69	60.69	16.56	12.00	15.75	690
SCR 45 6 2	37.88	63.81	16.56	12.00	15.75	769
SCR 45-6-1	37.88	63.81	16.56	12.00	15.75	769
SCR 45-6	37.88	63.81	16.56	12.00	15.75	769
SCR 45-7-2	41.00	68.75	18.50	13.19	17.75	966
SCR 45-7-1	41.00	68.75	18.50	13.19	17.75	966
SCR 45-7	41.00	68.75	18.50	13.19	17.75	966

### PERFORMANCE TABLE

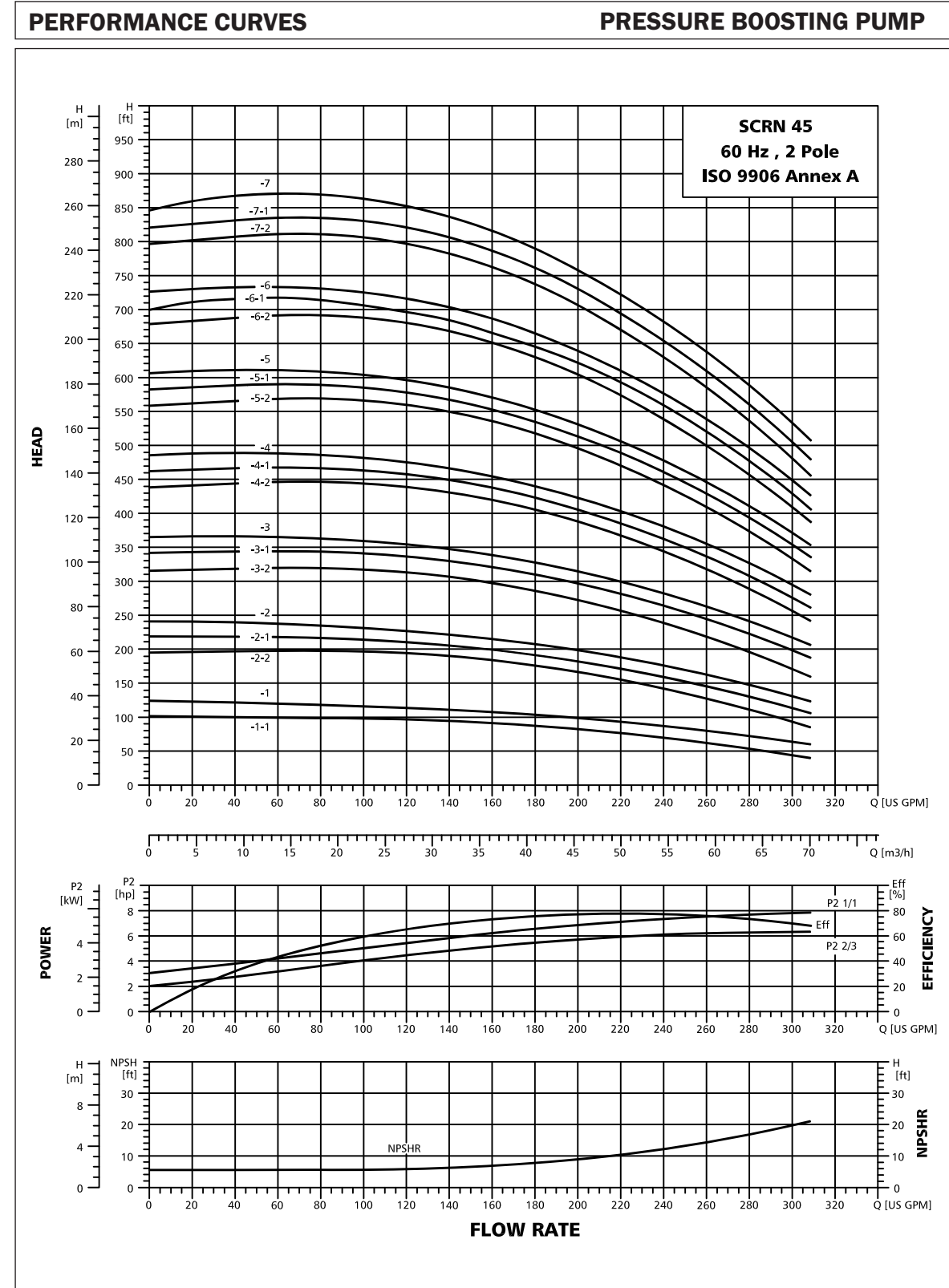
Model	kW	HP	Amp.	Head (Mtr.)														
				0	10	20	30	40	50	60	70							
SCR 45-1-1	5.5	7.5	18.40-16.20/10.60/9.30	31	30	30	28	26	23	18	12							
SCR 45-1	7.5	10	24.60-20.80/14.20-12.00	38	37	35	34	32	28	24	18							
SCR 45-2-2	11	15	36.00-30.00/20.80-17.20	59	60	60	58	54	57	37	26							
SCR 45-2-1	11	15	36.00-30.00/20.80-17.20	66	66	65	63	59	52	43	32							
SCR 45-2	15	20	48.50-39.00/28.00-22.40	74	73	71	68	64	57	48	37							
SCR 45-3-2	18.5	25	59.50-48.50/34.50-28.00	96	97	97	94	87	78	65	49							
SCR 45-3-1	18.5	25	59.50-48.50/34.50-28.00	103	105	104	101	95	86	73	57							
SCR 45-3	18.5	25	59.50-48.50/34.50-28.00	111	111	110	106	100	91	78	63							
SCR 45-4-2	22	30	69.50-56.50/40.00-32.00	134	135	136	132	124	112	95	74							
SCR 45-4-1	30*	40	55.00-50.00/31.50-29.00	140	142	141	138	130	117	101	80							
SCR 45-4	30*	40	55.00-50.00/31.50-29.00	147	149	147	143	135	122	107	85							
SCR 45-5-2	30*	40	55.00-50.00/31.50-29.00	170	172	173	168	158	143	122	96							
SCR 45-5-1	30*	40	55.00-50.00/31.50-29.00	178	179	179	174	164	149	128	102							
SCR 45-5	30*	40	55.00-50.00/31.50-29.00	184	186	185	180	170	154	134	108							
SCR 45-6-2	37*	50	67.00-61.00/38.50-35.00	226	229	231	225	193	175	150	118							
SCR 45 6 1	37*	50	67.00 61.00/38.50 35.00	213	218	217	210	197	180	161	124							
SCR 45-6	37*	50	67.00-61.00/38.50-35.00	221	223	222	216	204	186	162	130							
SCR 45-7-2	45*	60	81.00-74.00/47.00-42.50	243	245	246	240	226	204	175	139							
SCR 45-7-1	45*	60	81.00-74.00/47.00-42.50	250	254	255	247	234	211	183	141							
SCR 45-7	45*	60	81.00-74.00/47.00-42.50	257	265	265	256	242	220	191	155							

- SCR standard voltages: 220-240Δ/380-440Y
- \* 380-420Δ/660-725Y
- This performance table is approximate as a performance curve.



# PERFORMANCE CURVES

## SCRN 45



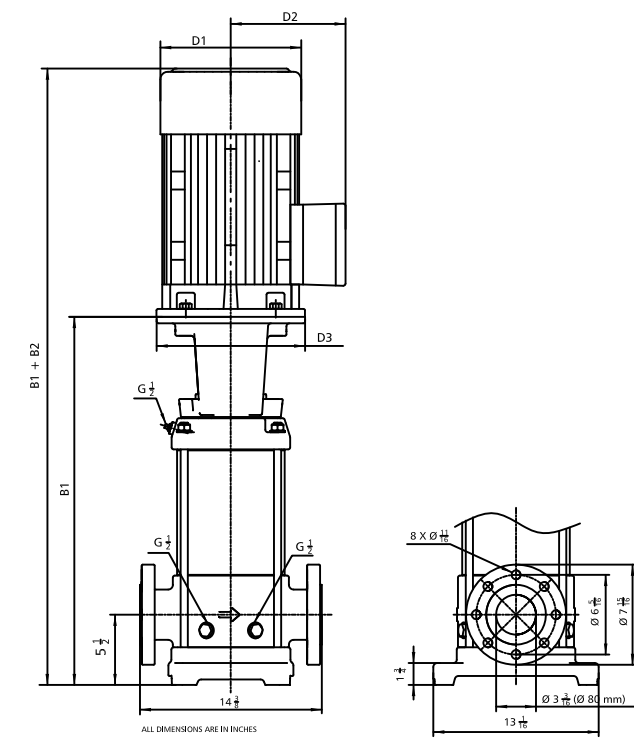
# TECHNICAL DATA

## SCRN 45



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### DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

Model	Size in Inch					Weight (Lbs)
	B1	B1+B2	D1	D2	D3	
SCRN 45-1-1	22.13	38.44	8.88	7.50	11.81	220
SCRN 45-1	22.13	38.44	8.88	7.50	11.81	247
SCRN 45-2-2	25.25	45.13	13.00	10.06	13.81	351
SCRN 45-2-1	25.25	45.13	13.00	10.06	13.81	351
SCRN 45-2	25.25	47.31	13.00	10.06	13.81	379
SCRN 45-3-2	28.44	51.63	15.00	11.06	13.81	417
SCRN 45-3-1	28.44	51.63	15.00	11.06	13.81	417
SCRN 45-3	28.44	51.63	15.00	11.06	13.81	417
SCRN 45-4-2	31.56	56.38	15.00	11.06	13.81	456
SCRN 45-4-1	31.56	57.56	16.56	12.00	15.75	681
SCRN 45-4	31.56	57.56	16.56	12.00	15.75	681
SCRN 45-5-2	36.69	60.69	16.56	12.00	15.75	690
SCRN 45-5-1	36.69	60.69	16.56	12.00	15.75	690
SCRN 45-5	36.69	60.69	16.56	12.00	15.75	690
SCRN 45-6-2	37.88	63.81	16.56	12.00	15.75	769
SCRN 45-6-1	37.88	63.81	16.56	12.00	15.75	769
SCRN 45-6	37.88	63.81	16.56	12.00	15.75	769
SCRN 45-7-2	41.00	68.75	18.50	13.19	17.75	966
SCRN 45-7-1	41.00	68.75	18.50	13.19	17.75	966
SCRN 45-7	41.00	68.75	18.50	13.19	17.75	966

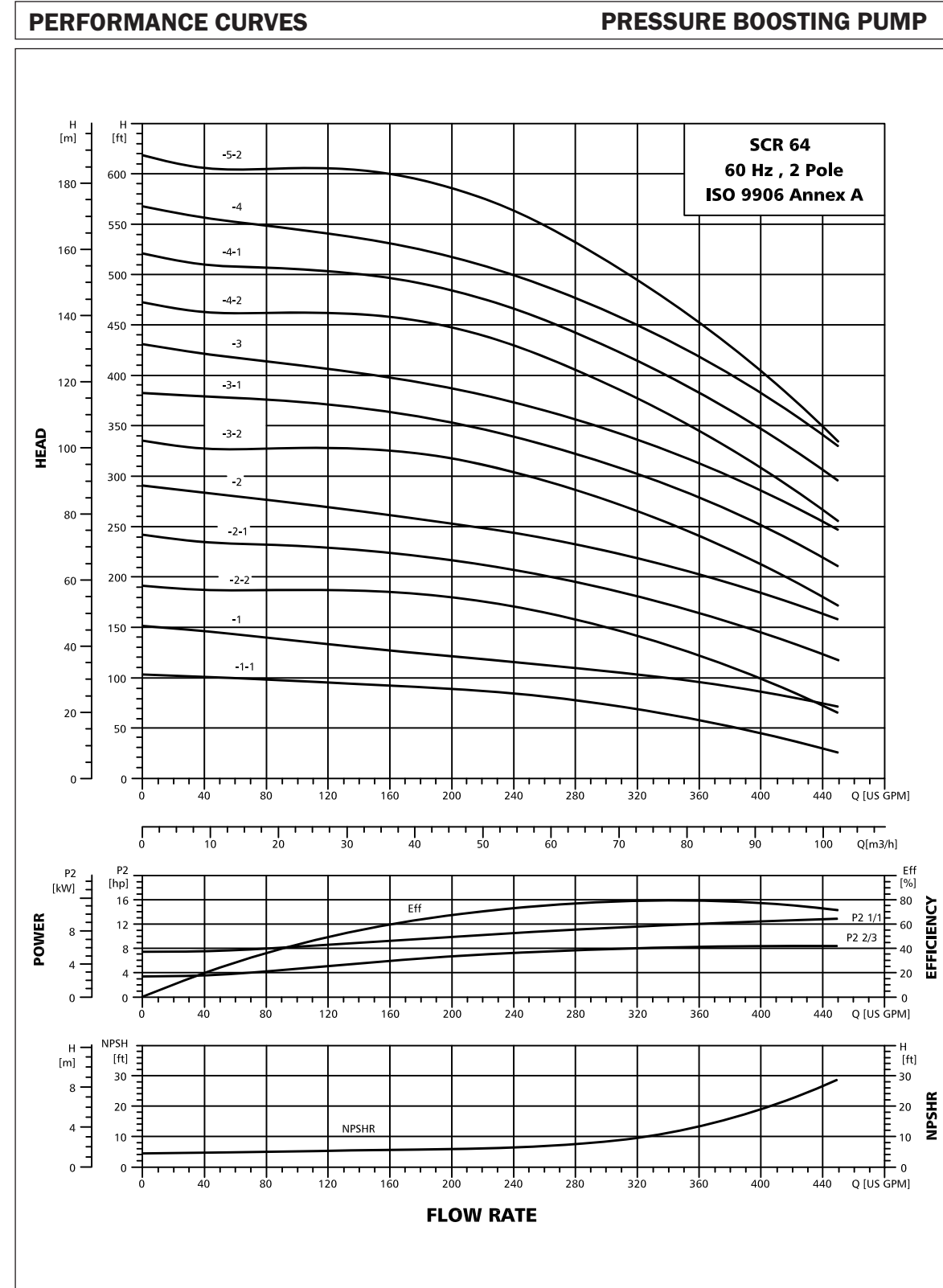
### PERFORMANCE TABLE

Model	kW	HP	Amp.	Head (Mtr.)							
				0	10	20	30	40	50	60	70
SCRN 45-1-1	5.5	7.5	18.40-16.20/10.60/9.30	31	30	30	28	26	23	18	12
SCRN 45-1	7.5	10	24.60-20.80/14.20-12.00	38	37	35	34	32	28	24	18
SCRN 45-2-2	11	15	36.00-30.00/20.80-17.20	59	60	60	58	54	57	37	26
SCRN 45-2-1	11	15	36.00-30.00/20.80-17.20	66	66	65	63	59	52	43	32
SCRN 45-2	15	20	48.50-39.00/28.00-22.40	74	73	71	68	64	57	48	37
SCRN 45-3-2	18.5	25	59.50-48.50/34.50-28.00	96	97	97	94	87	78	65	49
SCRN 45-3-1	18.5	25	59.50-48.50/34.50-28.00	103	105	104	101	95	86	73	57
SCRN 45-3	18.5	25	59.50-48.50/34.50-28.00	111	111	110	106	100	91	78	63
SCRN 45-4-2	22	30	69.50-56.50/40.00-32.00	134	135	136	132	124	112	95	74
SCRN 45-4-1	30*	40	55.00-50.00/31.50-29.00	140	142	141	138	130	117	101	80
SCRN 45-4	30*	40	55.00-50.00/31.50-29.00	147	149	147	143	135	122	107	85
SCRN 45-5-2	30*	40	55.00-50.00/31.50-29.00	170	172	173	168	158	143	122	96
SCRN 45-5-1	30*	40	55.00-50.00/31.50-29.00	178	179	179	174	164	149	128	102
SCRN 45-5	30*	40	55.00-50.00/31.50-29.00	184	186	185	180	170	154	134	108
SCRN 45-6-2	37*	50	67.00-61.00/38.50-35.00	226	229	231	225	193	175	150	118
SCRN 45-6-1	37*	50	67.00-61.00/38.50-35.00	213	218	217	210	197	180	161	124
SCRN 45-6	37*	50	67.00-61.00/38.50-35.00	221	223	222	216	204	186	162	130
SCRN 45-7-2	45*	60	81.00-74.00/47.00-42.50	243	245	246	240	226	204	175	139
SCRN 45-7-1	45*	60	81.00-74.00/47.00-42.50	250	254	255	247	234	211	183	141
SCRN 45-7	45*	60	81.00-74.00/47.00-42.50	257	265	265	256	242	220	191	155

• SCRN standard voltages: 220-240Δ/380-440Y  
 • \* 380-420Δ/660-725Y  
 • This performance table is approximate as a performance curve.

# PERFORMANCE CURVES

## SCR 64



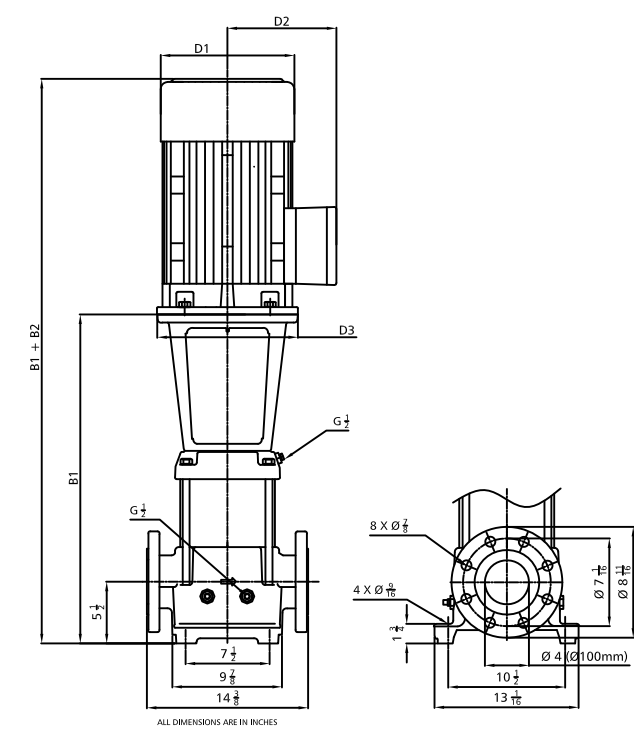
# TECHNICAL DATA

## SCR 64



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### DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

Model	Size in Inch					Weight (Lbs)
	B1	B1+B2	D1	D2	D3	
SCR 64-1-1	26.44	42.75	8.88	7.50	11.81	251
SCR 64-1	26.44	46.31	13.00	10.06	13.81	348
SCR 64-2-2	29.69	51.75	13.00	10.06	13.81	386
SCR 64-2-1	29.69	52.94	15.00	11.06	13.81	414
SCR 64-2	29.69	54.50	15.00	11.06	13.81	445
SCR 64-3-2	33.00	57.75	15.00	11.06	13.81	456
SCR 64-3-1	33.00	58.94	16.56	12.06	15.75	681
SCR 64-3	33.00	58.94	16.56	12.06	15.75	681
SCR 64-4-2	36.25	62.25	16.56	12.06	15.75	761
SCR 64-4-1	36.25	62.25	16.56	12.06	15.75	761
SCR 64-4	36.25	64.00	18.50	13.19	17.75	946
SCR 64-5-2	39.50	67.25	18.50	13.19	17.75	957

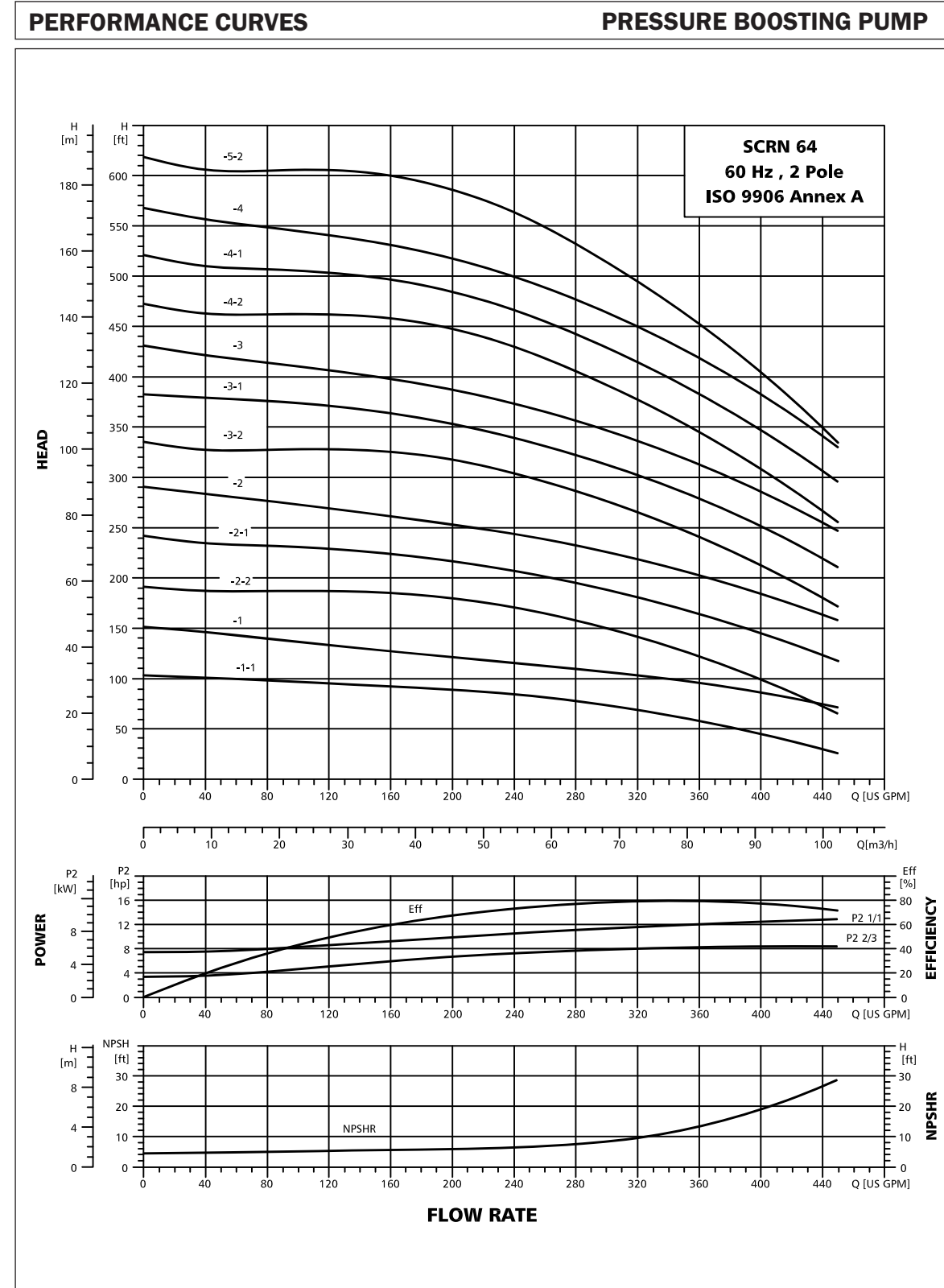
### PERFORMANCE TABLE

Model	kW	HP	Amp.	Head (Mtr.)								
				0	10	25	40	55	70	85	100	
SCR 64-1-1	7.5	10	24.60-20.80/14.20-12.00	32	31	29	27	25	22	16	9	
SCR 64-1	11	15	36.00-30.00/20.80-17.20	46	44	41	37	35	32	28	23	
SCR 64-2-2	15	20	48.50-39.00/28.00-22.40	58	57	57	55	52	45	35	22	
SCR 64-2-1	18.5	25	59.50-48.50/34.50-28.00	74	71	70	67	63	56	48	37	
SCR 64-2	22	30	69.50-56.50/40.00-32.00	88	86	83	78	74	67	60	50	
SCR 64-3-2	22	30	69.50-56.50/40.00-32.00	103	100	100	98	93	83	70	55	
SCR 64-3-1	30*	40	55.00-50.00/31.50-29.00	116	115	114	110	103	94	82	66	
SCR 64-3	30*	40	55.00-50.00/31.50-29.00	132	128	124	120	113	104	92	77	
SCR 64-4-2	37*	50	67.00-61.00/38.50-35.00	144	140	140	138	131	117	101	81	
SCR 64-4-1	37*	50	67.00-61.00/38.50-35.00	158	155	154	150	142	129	113	93	
SCR 64-4	45*	60	81.00-74.00/47.00-42.50	173	169	165	160	152	140	124	104	
SCR 64-5-2	45*	60	81.00-74.00/47.00-42.50	188	185	185	181	172	154	133	106	

- SCR standard voltages: 220-240Δ/380-440Y
- \* 380-420Δ/660-725Y
- This performance table is approximate as a performance curve.

# PERFORMANCE CURVES

## SCRN 64



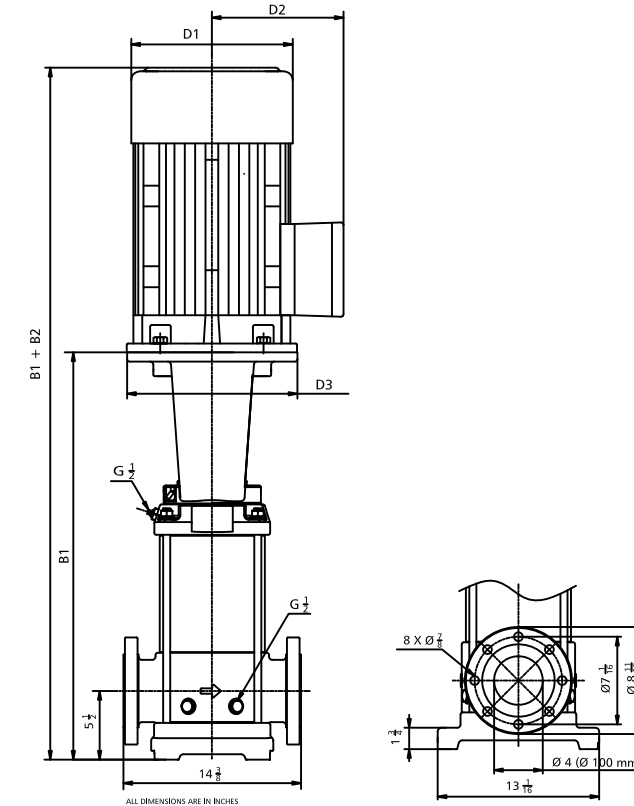
# TECHNICAL DATA

## SCRN 64



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### DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

Model	Size in Inch					Weight (Lbs)
	B1	B1+B2	D1	D2	D3	
SCRN 64-1-1	26.44	42.75	8.88	7.50	11.81	251
SCRN 64-1	26.44	46.31	13.00	10.06	13.81	348
SCRN 64-2-2	29.69	51.75	13.00	10.06	13.81	386
SCRN 64-2-1	29.69	52.94	15.00	11.06	13.81	414
SCRN 64-2	29.69	54.50	15.00	11.06	13.81	445
SCRN 64-3-2	33.00	57.75	15.00	11.06	13.81	456
SCRN 64-3-1	33.00	58.94	16.56	12.06	15.75	681
SCRN 64-3	33.00	58.94	16.56	12.06	15.75	681
SCRN 64-4-2	36.25	62.25	16.56	12.06	15.75	761
SCRN 64-4-1	36.25	62.25	16.56	12.06	15.75	761
SCRN 64-4	36.25	64.00	18.50	13.19	17.75	946
SCRN 64-5-2	39.50	67.25	18.50	13.19	17.75	957

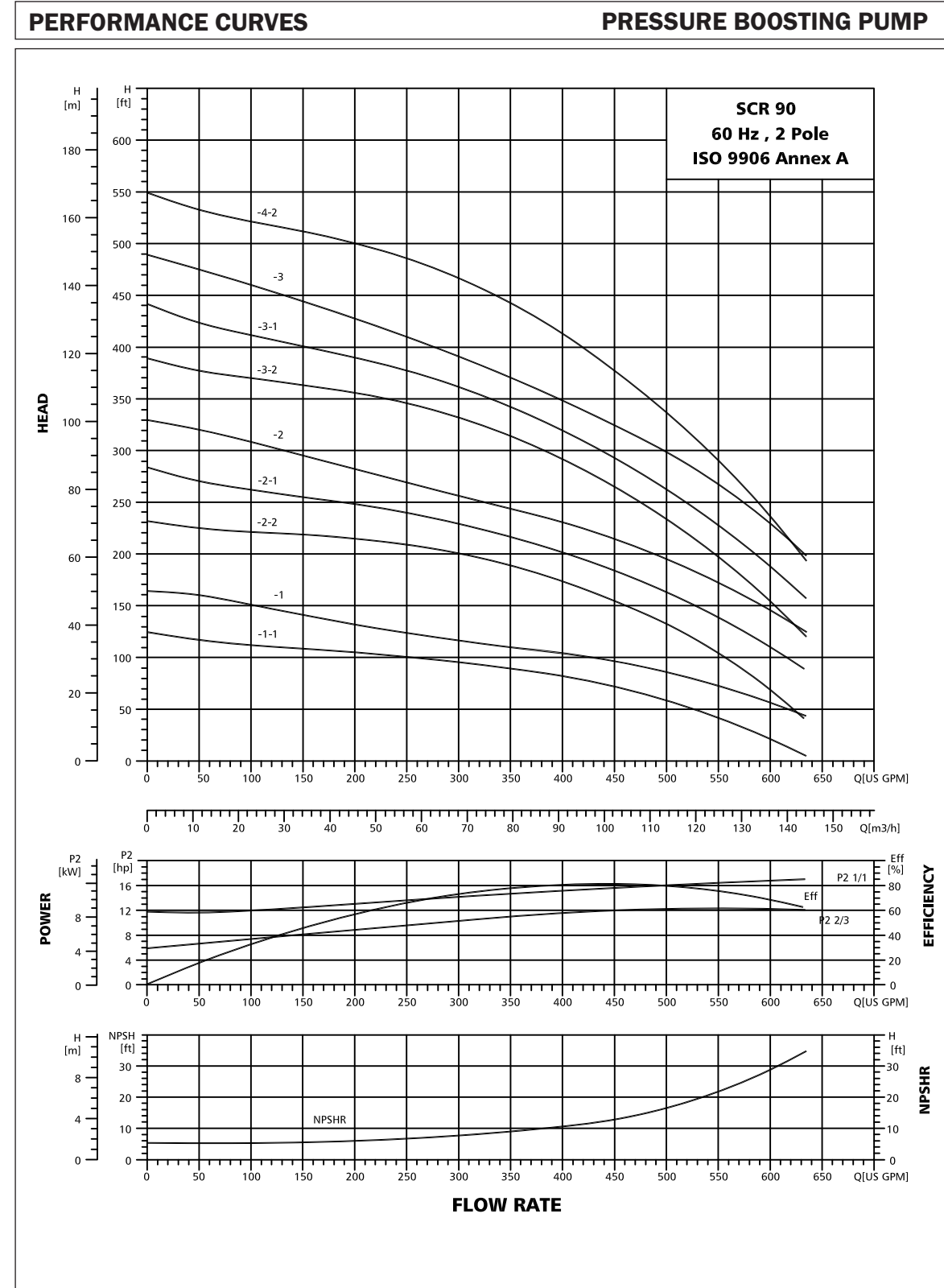
### PERFORMANCE TABLE

Model	kW	HP	Amp.	Head (Mtr.)							
				0	10	25	40	55	70	85	100
SCRN 64-1-1	7.5	10	24.60-20.80/14.20-12.00	0	44	110	176	242	308	374	440
SCRN 64-1	11	15	36.00-30.00/20.80-17.20	32	31	29	27	25	22	16	9
SCRN 64-2-2	15	20	48.50-39.00/28.00-22.40	46	44	41	37	35	32	28	23
SCRN 64-2-1	18.5	25	59.50-48.50/34.50-28.00	58	57	57	55	52	45	35	22
SCRN 64-2	22	30	69.50-56.50/40.00-32.00	74	71	70	67	63	56	48	37
SCRN 64-3-2	22	30	69.50-56.50/40.00-32.00	88	86	83	78	74	67	60	50
SCRN 64-3-1	30*	40	55.00-50.00/31.50-29.00	103	100	100	98	93	83	70	55
SCRN 64-3	30*	40	55.00-50.00/31.50-29.00	116	115	114	110	103	94	82	66
SCRN 64-4-2	37*	50	67.00-61.00/38.50-35.00	132	128	124	120	113	104	92	77
SCRN 64-4-1	37*	50	67.00-61.00/38.50-35.00	144	140	140	138	131	117	101	81
SCRN 64-4	45*	60	81.00-74.00/47.00-42.50	158	155	154	150	142	129	113	93
SCRN 64-5-2	45*	60	81.00-74.00/47.00-42.50	173	169	165	160	152	140	124	104
				188	185	185	181	172	154	133	106

- SCRN standard voltages: 220-240Δ/380-440Y
- \* 380-420Δ/660-725Y
- This performance table is approximate as a performance curve.

# PERFORMANCE CURVES

## SCR 90



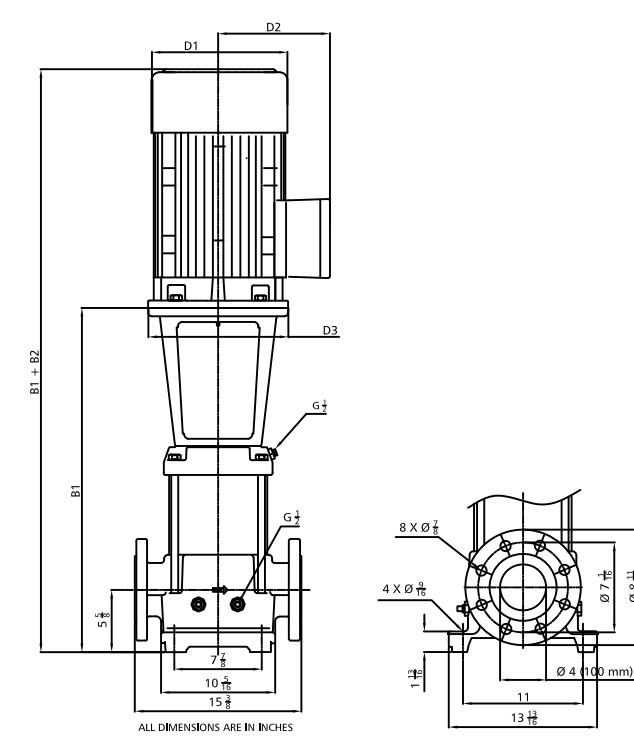
# TECHNICAL DATA

## SCR 90



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### DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

Model	Size in Inch					Weight (Lbs)
	B1	B1+B2	D1	D2	D3	
SCR 90-1-1	22.69	42.56	13.00	10.06	13.81	359
SCR 90-1	22.69	42.56	13.00	10.06	13.81	388
SCR 90-2-2	26.19	48.25	13.00	10.06	13.81	428
SCR 90-2-1	26.19	49.44	15.00	11.06	13.81	456
SCR 90-2	26.19	52.19	16.56	12.06	15.75	681
SCR 90-3-2	29.75	55.75	16.56	12.06	15.75	761
SCR 90-3-1	29.75	55.75	16.56	12.06	15.75	761
SCR 90-3	29.75	57.50	18.50	13.25	17.75	946
SCR 90-4-2	33.31	61.06	18.50	13.25	17.75	961

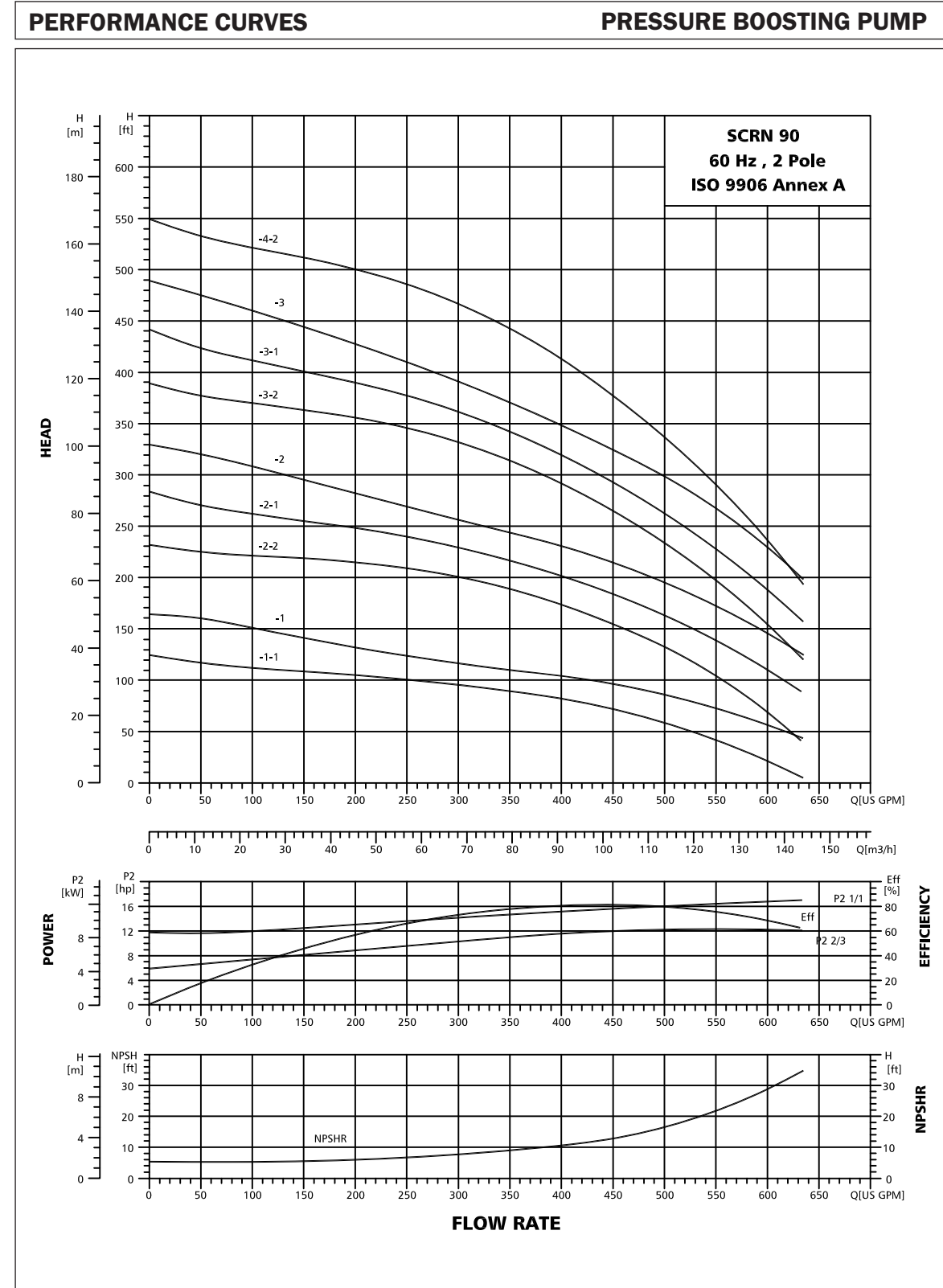
### PERFORMANCE TABLE

Model	kW	HP	Amp.	Head (Mtr.)							
				0	20	40	60	80	100	120	140
SCR 90-1-1	11	15	36.00-30.00/20.80-17.20	38	34	32	30	27	23	15	4
SCR 90-1	15	20	48.50-39.00/28.00-22.40	50	47	42	37	33	29	24	15
SCR 90-2-2	18.5	25	59.50-48.50/34.50-28.00	71	68	66	63	57	48	36	17
SCR 90-2-1	22	30	69.50-56.50/40.00-32.00	86	80	76	72	66	57	46	30
SCR 90-2	30*	40	55.00-50.00/31.50-29.00	100	95	87	81	74	66	56	42
SCR 90-3-2	37*	50	67.00-61.00/38.50-35.00	118	114	109	104	96	82	65	42
SCR 90-3-1	37*	50	67.00-61.00/38.50-35.00	135	126	120	114	104	91	74	53
SCR 90-3	45*	60	81.00-74.00/47.00-42.50	159	142	133	123	112	100	86	66
SCR 90-4-2	45*	60	81.00-74.00/47.00-42.50	167	160	154	147	135	117	95	66

- SCR standard voltages: 220-240Δ/380-440Y
- \* 380-420Δ/660-725Y
- This performance table is approximate as a performance curve.

# PERFORMANCE CURVES

## SCRN 90



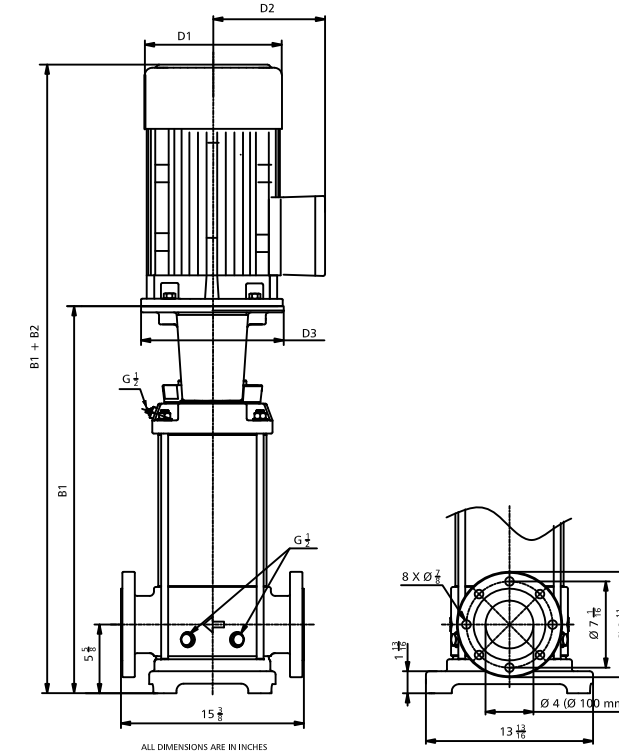
# TECHNICAL DATA

## SCRN 90



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### DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

Model	Size in Inch					Weight (Lbs)
	B1	B1+B2	D1	D2	D3	
SCRN 90-1-1	22.69	42.56	13.00	10.06	13.81	362
SCRN 90-1	22.69	42.56	13.00	10.06	13.81	390
SCRN 90-2-2	26.19	48.25	13.00	10.06	13.81	430
SCRN 90-2-1	26.19	49.44	15.00	11.06	13.81	461
SCRN 90-2	26.19	52.19	16.56	12.06	15.75	686
SCRN 90-3-2	29.75	55.75	16.56	12.06	15.75	763
SCRN 90-3-1	29.75	55.75	16.56	12.06	15.75	763
SCRN 90-3	29.75	57.50	18.50	13.25	17.75	950
SCRN 90-4-2	33.31	61.06	18.50	13.25	17.75	966

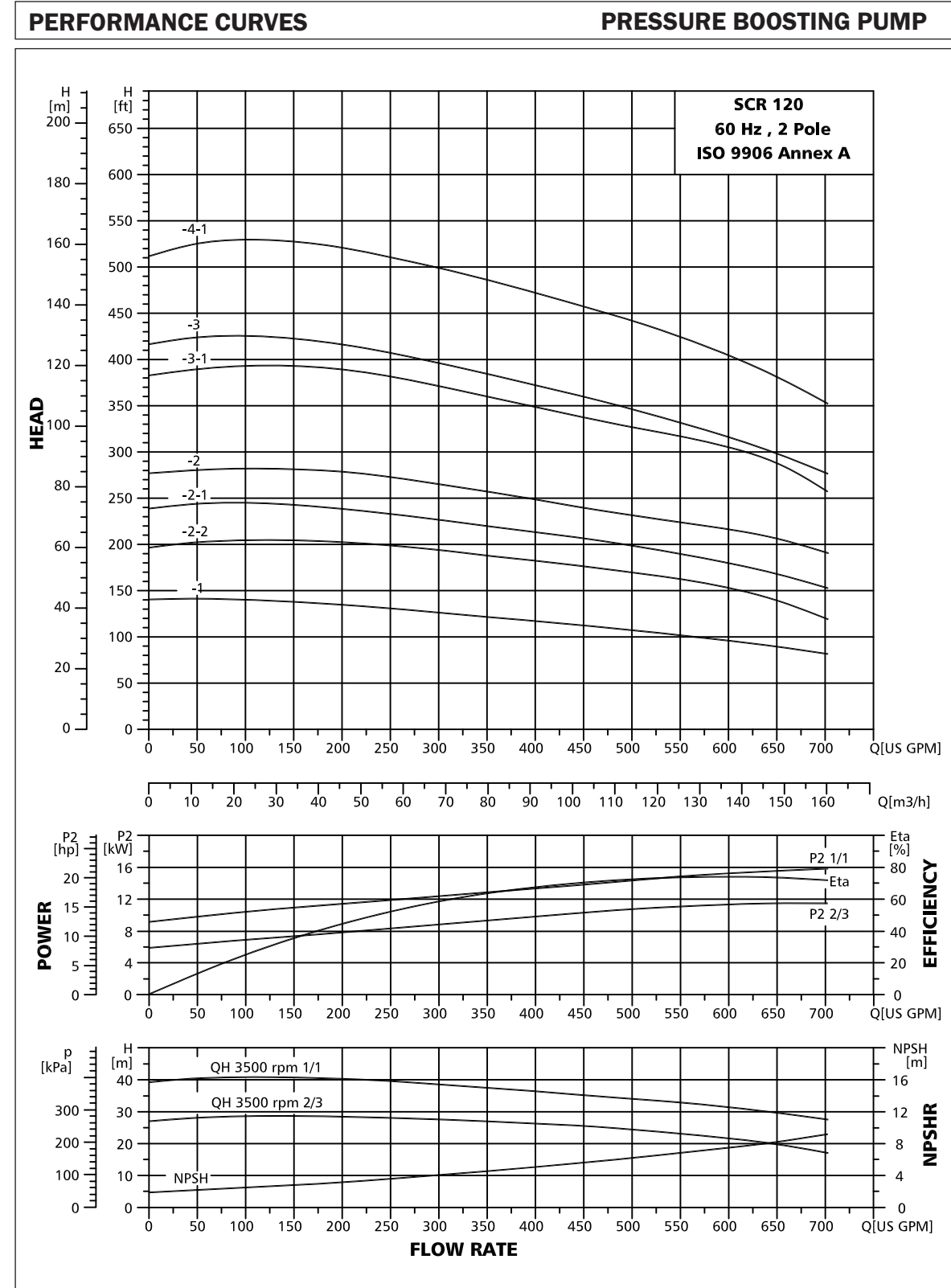
### PERFORMANCE TABLE

Model	kW	HP	Amp.	Head (Mtr.)								
				0	20	40	60	80	100	120	140	
SCRN 90-1-1	11	15	36.00-30.00/20.80-17.20	38	34	32	30	27	23	15	4	
SCRN 90-1	15	20	48.50-39.00/28.00-22.40	50	47	42	37	33	29	24	15	
SCRN 90-2-2	18.5	25	59.50-48.50/34.50-28.00	71	68	66	63	57	48	36	17	
SCRN 90-2-1	22	30	69.50-56.50/40.00-32.00	86	80	76	72	66	57	46	30	
SCRN 90-2	30*	40	55.00-50.00/31.50-29.00	100	95	87	81	74	66	56	42	
SCRN 90-3-2	37*	50	67.00-61.00/38.50-35.00	118	114	109	104	96	82	65	42	
SCRN 90-3-1	37*	50	67.00-61.00/38.50-35.00	135	126	120	114	104	91	74	53	
SCRN 90-3	45*	60	81.00-74.00/47.00-42.50	159	142	133	123	112	100	86	66	
SCRN 90-4-2	45*	60	81.00-74.00/47.00-42.50	167	160	154	147	135	117	95	66	

- SCRN standard voltages: 220-240Δ/380-440Y
- \* 380-420Δ/660-725Y
- This performance table is approximate as a performance curve.

# PERFORMANCE CURVES

## SCR 120



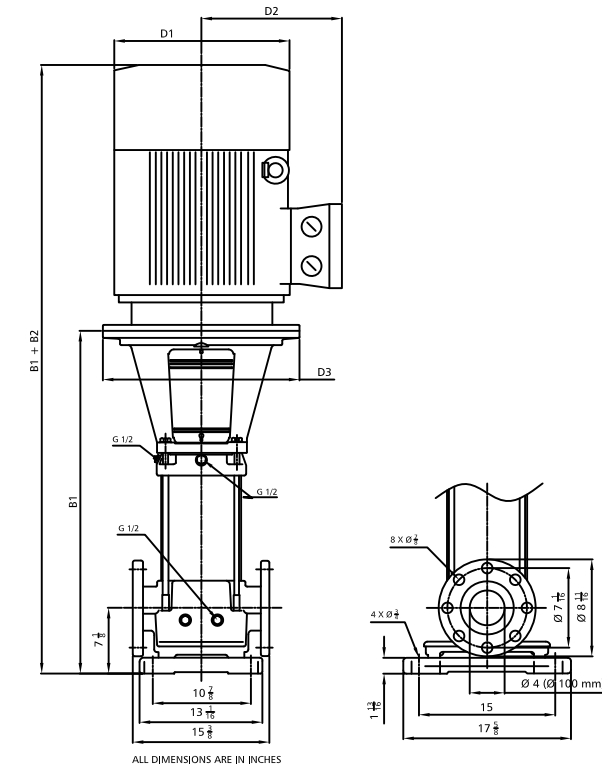
# TECHNICAL DATA

## SCR 120



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### DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

Model	Size in Inch					Weight (Lbs)
	B1	B1+B2	D1	D2	D3	
SCR 120-1	33.13	55.19	13.00	10.06	13.81	478
SCR 120-2-2	39.25	62.50	16.56	12.06	15.75	756
SCR 120-2-1	39.25	62.50	16.56	12.06	15.75	756
SCR 120-2	39.25	62.50	16.56	12.06	15.75	822
SCR 120-3-1	45.44	71.38	18.56	13.19	17.75	1030
SCR 120-3	45.44	75.75	20.06	14.63	21.69	1305
SCR 120-4-1	51.56	84.81	22.88	16.19	21.69	1570

### PERFORMANCE TABLE

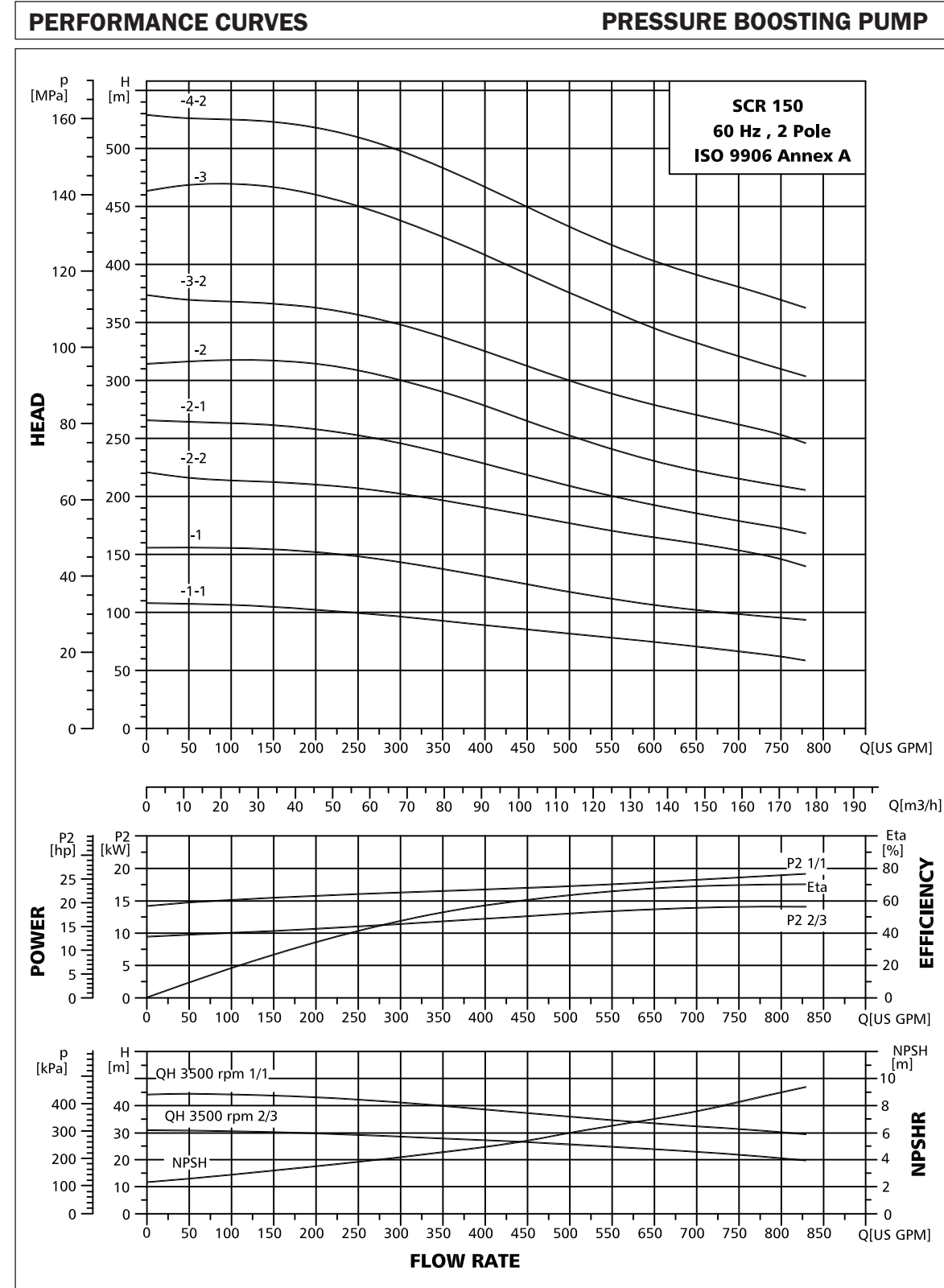
Model	kW	HP	Amp.	Head (Mtr.)							
				0	30	50	70	90	110	130	150
SCR 120-1	18.5	25	59.50-48.50/34.50-28.00	43	42	40	38	36	33	30	27
SCR 120-2-2	30*	40	55.00-50.00/31.50-29.00	60	63	62	58	55	52	47	42
SCR 120-2-1	30*	40	55.00-50.00/31.50-29.00	73	75	72	67	65	61	56	50
SCR 120-2	37*	50	67.00-61.00/38.50-35.00	84	86	83	80	76	72	67	62
SCR 120-3-1	45*	60	81.00-74.00/47.00-42.50	117	120	117	113	106	101	95	86
SCR 120-3	55*	75	99.00-89.00/57.00-51.00	127	129	126	120	117	106	99	90
SCR 120-4-1	75*	100	136.0-122.0/79.00-70.00	156	161	155	152	144	137	127	115

- SCR standard voltages: 220-240Δ/380-440Y
- \* 380-420Δ/660-725Y
- This performance table is approximate as a performance curve.



# PERFORMANCE CURVES

## SCR 150



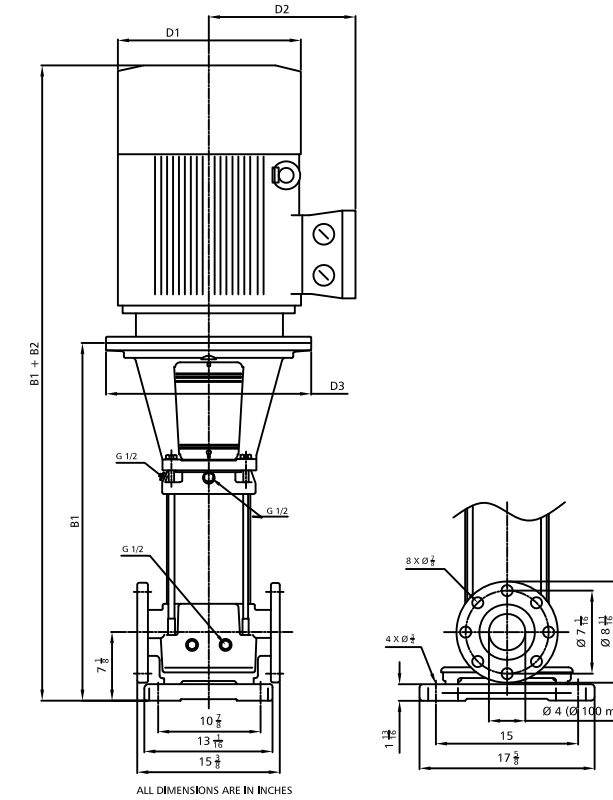
# TECHNICAL DATA

## SCR 150



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### DIMENSIONAL, SKETCH & PERFORMANCE



ALL DIMENSIONS ARE IN INCHES

Model	Size in Inch					Weight (Lbs)
	B1	B1+B2	D1	D2	D3	
SCR 150-1-1	33.13	55.19	13.00	10.06	13.81	478
SCR 150-1	33.13	56.38	15.00	11.06	13.81	509
SCR 150-2-2	39.31	65.25	16.56	12.06	15.75	756
SCR 150-2-1	39.31	65.25	26.56	12.06	15.75	822
SCR 150-2	39.31	67.06	18.50	13.25	17.75	1008
SCR 150-3-2	45.44	75.75	20.06	14.56	21.69	1307
SCR 150-3-2	45.44	78.69	22.88	16.19	21.69	1548
SCR 150-4-2	51.56	84.81	22.88	16.19	21.69	1570

### PERFORMANCE TABLE

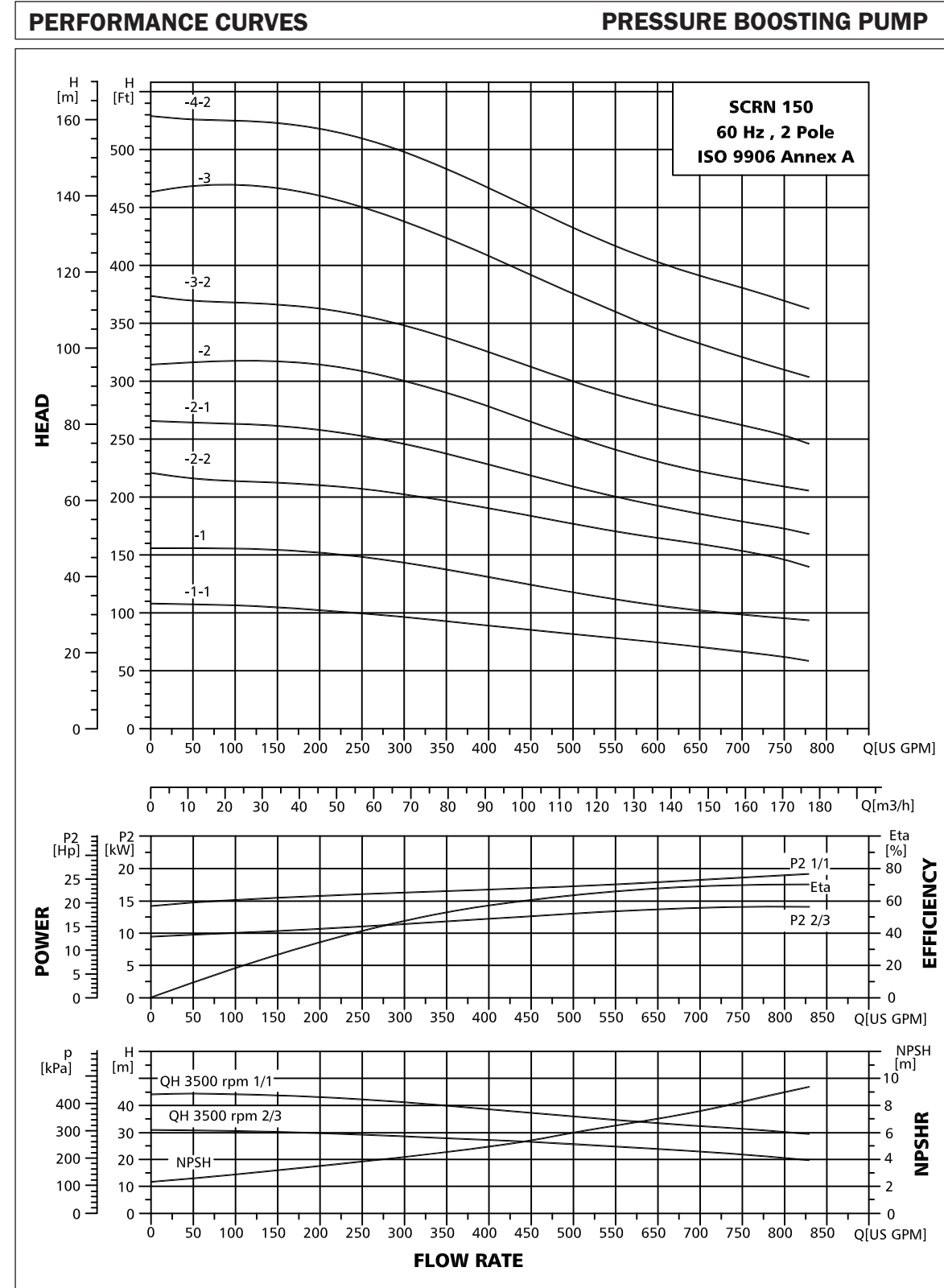
Model	kW	HP	Amp.	Head (Mtr.)							
				0	50	70	90	110	130	150	170
SCR 150-1-1	18.5	25	59.50-48.50/34.50-28.00	33	31	29	27	26	25	23	19
SCR 150-1	22	30	69.50-56.50/40.00-32.00	48	45	43	41	37	34	33	29
SCR 150-2-2	30*	40	55.00-50.00/31.50-29.00	67	65	61	58	55	53	51	44
SCR 150-2-1	37*	50	67.00-61.00/38.50-35.00	82	78	75	71	65	61	60	52
SCR 150-2	45*	60	81.00-74.00/47.00-42.50	95	94	91	86	78	74	72	66
SCR 150-3-2	55*	75	99.00-89.00/57.00-51.00	115	110	106	102	93	87	87	77
SCR 150-3-2	75*	100	136.0-122.0/79.00-70.00	141	138	133	125	117	108	106	95
SCR 150-4-2	75*	100	136.0-122.0/79.00-70.00	162	157	150	143	134	126	118	113

- SCR standard voltages: 220-240Δ/380-440Y
- \* 380-420Δ/660-725Y
- This performance table is approximate as a performance curve.



# PERFORMANCE CURVES

## SCRN 150



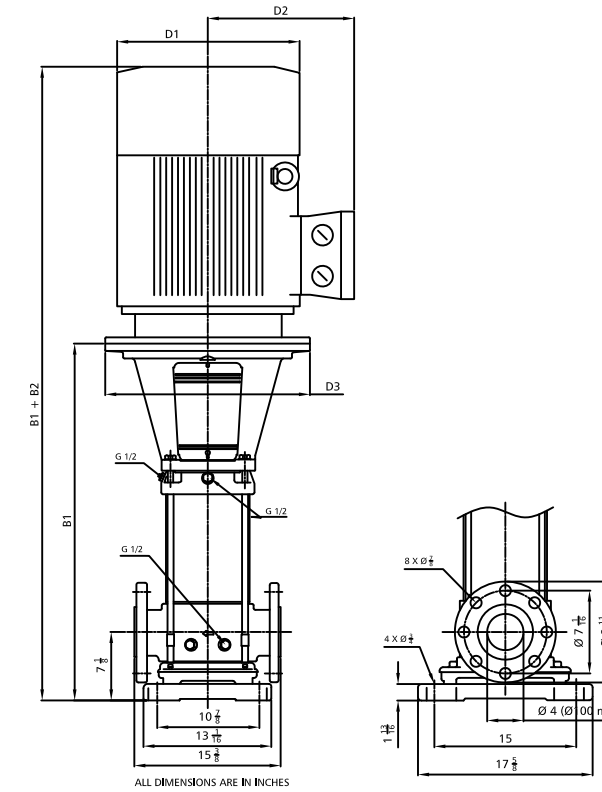
# TECHNICAL DATA

## SCRN 150



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### DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

Model	Size in Inch					Weight (Lbs)
	B1	B1+B2	D1	D2	D3	
SCRN 150-1-1	33.13	55.19	13.00	10.06	13.81	478
SCRN 150-1	33.13	56.38	15.00	11.06	13.81	509
SCRN 150-2-2	39.31	65.25	16.56	12.06	15.75	756
SCRN 150-2-1	39.31	65.25	26.56	12.06	15.75	822
SCRN 150-2	39.31	67.06	18.50	13.25	17.75	1008
SCRN 150-3-2	45.44	75.75	20.06	14.56	21.69	1307
SCRN 150-3-2	45.44	78.69	22.88	16.19	21.69	1548
SCRN 150-4-2	51.56	84.81	22.88	16.19	21.69	1570

### PERFORMANCE TABLE

Model	kW	HP	Amp.	Head (Mtr.)							
				0	50	70	90	110	130	150	170
SCRN 150-1-1	18.5	25	59.50-48.50/34.50-28.00	33	31	29	27	26	25	23	19
SCRN 150-1	22	30	69.50-56.50/40.00-32.00	48	45	43	41	37	34	33	29
SCRN 150-2-2	30*	40	55.00-50.00/31.50-29.00	67	65	61	58	55	53	51	44
SCRN 150-2-1	37*	50	67.00-61.00/38.50-35.00	82	78	75	71	65	61	60	52
SCRN 150-2	45*	60	81.00-74.00/47.00-42.50	95	94	91	86	78	74	72	66
SCRN 150-3-2	55*	75	99.00-89.00/57.00-51.00	115	110	106	102	93	87	87	77
SCRN 150-3-2	75*	100	136.0-122.0/79.00-70.00	141	138	133	125	117	108	106	95
SCRN 150-4-2	75*	100	136.0-122.0/79.00-70.00	162	157	150	143	134	126	118	113

- SCRN standard voltages: 220-240Δ/380-440Y
- \* 380-420Δ/660-725Y
- This performance table is approximate as a performance curve.

## PUMPED FLUIDS

### PRESSURE BOOSTING PUMP

#### PUMPED FLUIDS

Thin, non-explosive fluids, not containing solid particles or fibers. The liquid must not chemically attack the pump materials.

When pumping fluids with a density and/or viscosity higher than that of water, use oversized motors, if required. Whether a pump is suitable for a particular liquid depends on a number of factors of which the most important are the chloride content, pH value, temperature and content of chemicals, oils, etc.

Please note that aggressive fluids, such as sea water and some acids, may attack or dissolve the protective oxide film of the stainless steel and thus cause corrosion.

The **SCR, SCRI, SCRN** pumps are suitable for the following fluids:

#### SCR, SCRI

Use SCR, SCRI pumps are suitable for non-corrosive fluids.

Use SCR, SCRI pumps for liquid transfer, circulation and pressure boosting of cold or hot clean water.

#### SCRN

SCRN pumps are suitable for industrial fluids. Use SCRN pumps in systems where all parts in contact with the liquid must be made of high-grade stainless steel.

#### List of pumped fluids

A number of typical fluids are listed below. Other pump versions may be applicable, but those stated in the list are considered to be the best choices. The table is intended as a general guide only and cannot replace actual testing of the pumped fluids and pump materials under specific working conditions. However, use the list with some caution. Factors such as those mentioned below may affect the chemical resistance of a specific pump version:

- concentration of the pumped liquid
- liquid temperature
- pressure
- Take safety precautions when pumping dangerous fluids

## PUMPED FLUIDS

#### Notes

D - Often with additives.

E - The density and/or viscosity differ from that/those of water.

Take this factor into account when calculating motor output and pump performance.

F - Pump selection depends on many factors. Contact Shakti.

H - Risk of crystallization/precipitation in shaft seal.

1 - Highly inflammable liquid.

2 - Combustible liquid.

3 - Insoluble in water.

4 - Low self-ignition point.

PUMPED FLUIDS							
Pumped fluids	Note	Fluid concentration, fluid temperature	SCR, SCRI		SCRN		
Oil-containing water	-	< +100 °C	HQQV	HQQV	-	-	-
Olive oil	D,E,3	100%, +80	HQQV	HQQV	-	-	-
Oxalic acid ((COOH) <sub>2</sub> )	H	1%, +20°C	-	-	HQQE	HQQE	HQQE
Ozone- containing water (O <sub>3</sub> )	-	< +100°C	-	-	HQQE	HQQE	HQQE
Peanut oil	D,E,3	100%, +80°C	HQQV	HQQV	-	-	-
Petrol	1,3,4,F	100%, +20°C	HQBV	HQBV	-	-	-
Phosphoric acid (H <sub>3</sub> PO <sub>4</sub> )	E	20%, +20°C	-	-	HQQE	HQQE	HQQE
Propanol (C <sub>3</sub> H <sub>7</sub> OH)	1,F	100%, +20°C	HQQE	HQQE	-	-	-
Propylene glycol (CH <sub>3</sub> CH(OH)CH <sub>2</sub> OH)	D,E	100%, +20°C	HQQE	HQQE	-	-	-
Potassium carbonate (K <sub>2</sub> CO <sub>3</sub> )	E	50%, +90°C	HQQE	HQQE	-	-	-
Potassium format (KOOCH)	D,E	20%, +50°C	HQQE	HQQE	-	-	-
Potassium hydroxide (KOH)	E	30%, +50°C	-	-	HQQE	HQQE	HQQE
Potassium permanganate (KMnO <sub>4</sub> )	-	20%, +50°C	-	-	HQQE	HQQE	HQQE
Rape seed oil	D,E,3	100%, +80°C	HQQV	HQQV	-	-	-
Salicylic acid (C <sub>6</sub> H <sub>4</sub> (OH)COOH)	H	0.1%, +20°C	-	-	HQQE	HQQE	HQQE
Silicon oil	E,3	100%	HQQV	HQQV	-	-	-
Sodium bicarbonate (NaHCO <sub>3</sub> )	E	10%, +60°C	-	-	HQQE	HQQE	HQQE
Sodium chloride (NaCl)	D,E	30%, <+5	HQQE	HQQE	-	-	-
Sodium hydroxide (NaOH)	E	20%, +50°C	-	-	HQQE	HQQE	HQQE
Sodium hypochlorite (NaOCl)	F	0.1%, +20°C	-	-	HQQV	HQQV	HQQV
Sodium nitrate (NaNO <sub>3</sub> )	E	10%, +60°C	-	-	HQQE	HQQE	HQQE
Sodium phosphate (Na <sub>3</sub> PO <sub>4</sub> )	E,H	10%, +60°C	-	-	HQQE	HQQE	HQQE
Sodium sulfate (Na <sub>2</sub> SO <sub>4</sub> )	E,H	10%, +60°C	-	-	HQQE	HQQE	HQQE
Softened water	-	< +120	-	-	HQQE	HQQE	HQQE
Soya oil	D,E,3	100%, +80°C	HQQV	HQQV	-	-	-
Sulfuric acid (H <sub>2</sub> SO <sub>4</sub> )	F	1%, +20°C	-	-	HQQV	HQQV	HQQV
Sulfurous acid (H <sub>2</sub> SO <sub>3</sub> )	-	1%, +20°C	-	-	HQQE	HQQE	HQQE
Unsalted swimming pool water	-	Approx 2 ppm free chlorine (Cl <sub>2</sub> )	HQQE	HQQE	-	-	-

# PUMPED FLUIDS

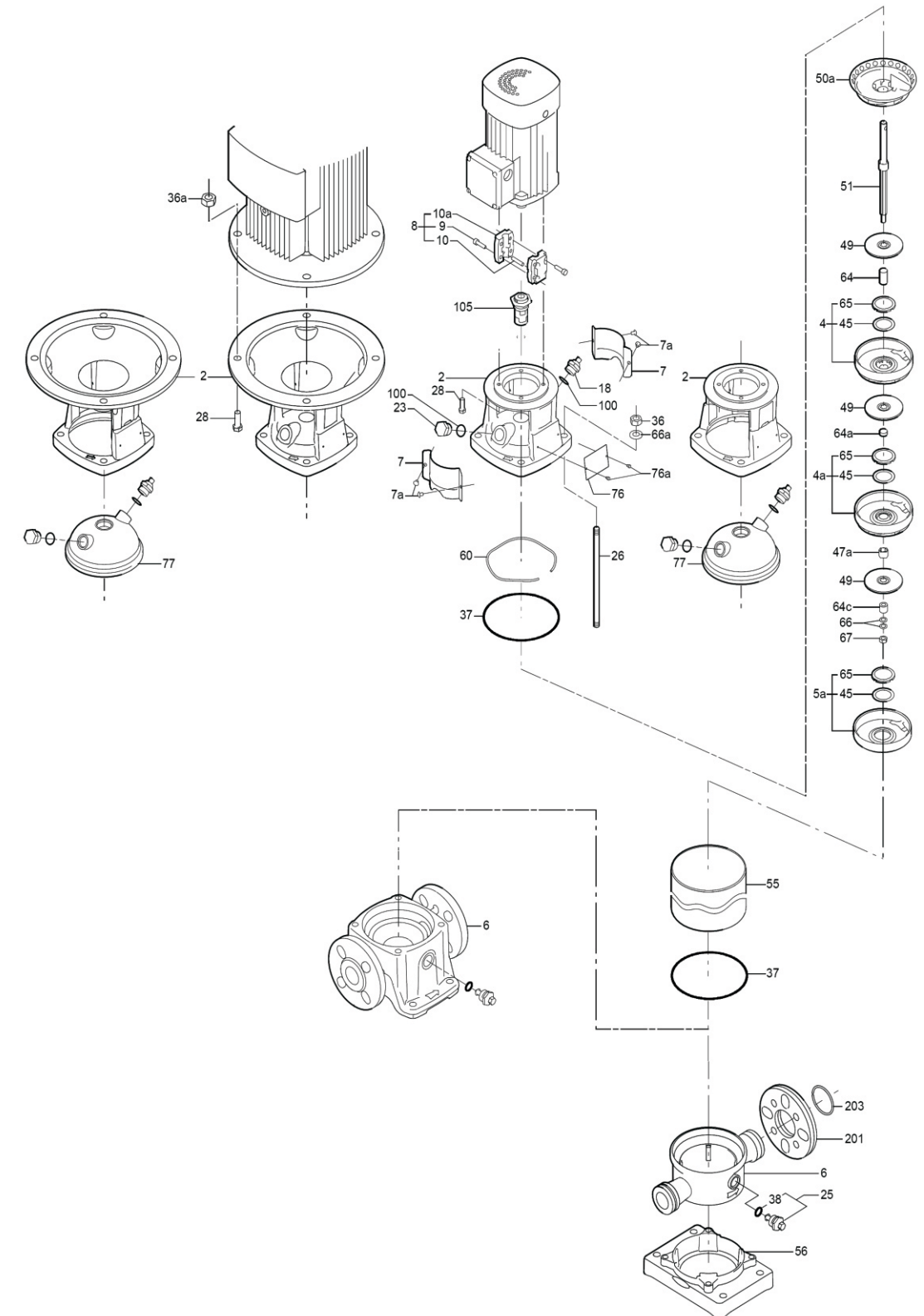
# EXPLODED VIEW

## SCR, SCRI, SCRN 1s, 1, 3, 5



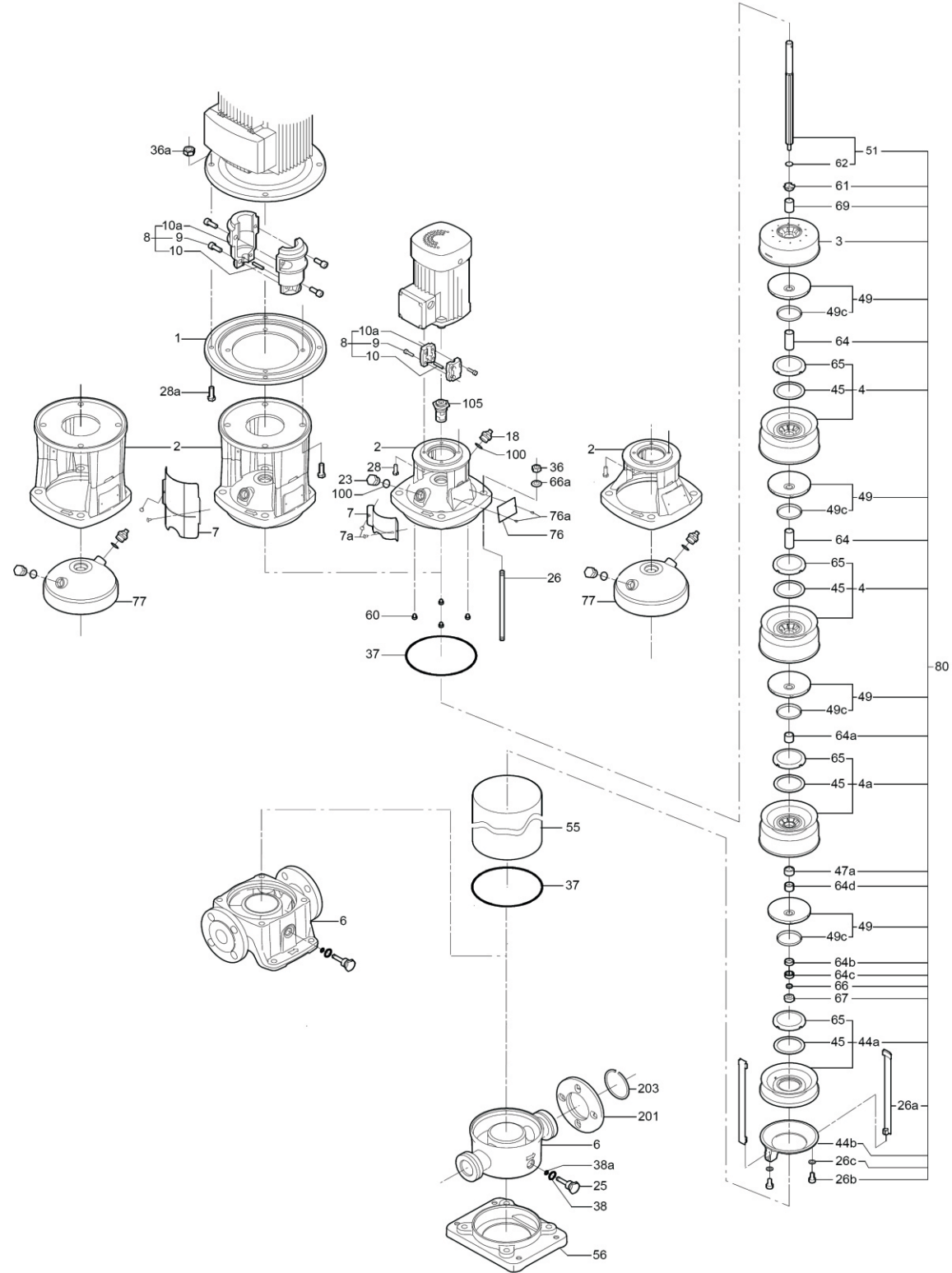
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PUMPED FLUIDS							
Pumped fluid	Note	Fluid concentration, fluid temperature	SCR, SCRI		SCRN		
Acetic acid (CH <sub>3</sub> COOH)	-	5%, +20°C	-	-	HQQE	HQQE	HQQE
Acetone (CH <sub>3</sub> COOH <sub>3</sub> )	1,F	100%, +20°C	-	-	HQQE	HQQE	HQQE
Alkaline degreasing agent	D,F	-	HQQE	HQQE	-	-	-
Ammonium bicarbonate (NH <sub>4</sub> HCO <sub>3</sub> )	E	20%, +30°C	-	-	HQQE	HQQE	HQQE
Ammonium hydroxide (NH <sub>4</sub> OH)		20%, +40°C	HQQE	HQQE	-	-	-
Aviation fuel	1,3,4,F	100%, +20°C	HQBV	HQBV	-	-	-
Benzoic acid (C <sub>6</sub> H <sub>5</sub> COOH)	H	0.5%, +20°C	-	-	HQQE	HQQE	HQQE
Boiler water		< +120 °C	HQQE	HQQE	-	-	-
	F	+120°C-+180°C					
Calcareous water		< +90°C	HQQE	HQQE	-	-	-
Calcium acetate (as coolant with inhibitor) (Ca(CH <sub>3</sub> COO) <sub>2</sub> )	D,E	30%, +50°C	HQQE	HQQE	-	-	-
Calcium hydroxide (Ca(OH) <sub>2</sub> )	E	Saturated Solution +50°C	HQQE	HQQE	-	-	-
Chloride-containing water	F	< +30%, Max 500 ppm	-	-	HQQE	HQQE	HQQE
Chromic acid (H <sub>2</sub> CrO <sub>4</sub> )	H	1%, +20°C	-	-	HQQE	HQQE	HQQE
Citric acid (HOC(CH <sub>2</sub> CO <sub>2</sub> H) <sub>2</sub> COOH)	H	5%, +40°C	-	-	HQQE	HQQE	HQQE
Completely desalinated water		< +120 °C	-	-	HQQE	HQQE	HQQE
Condensate		< +90°C	HQQE	HQQE	-	-	-
Copper sulfate (CuSO <sub>4</sub> )	E	10%, +50°C	-	-	HQQE	HQQE	HQQE
Corn oil	D,E,3	100%, +80°C	HQQE	HQQE	-	-	-
Diesel oil	2,3,4,F	100%, +20°C	HQQE	HQQE	-	-	-
Domestic hot water		< +120 °C	HQQE	HQQE	-	-	-
Ethanol (ethyl alcohol) (C <sub>2</sub> H <sub>5</sub> OH)	1,F	100%, +20°C	HQQE	HQQE	-	-	-
Ethylene glycol (HOCH <sub>2</sub> CH <sub>2</sub> OH)	D,E	50%, +50°C	HQQE	HQQE	-	-	-
Formic acid (HCOOH)		5%, +20°C	-	-	HQQE	HQQE	HQQE
Glycerin (glycerol) (OHCH <sub>2</sub> CH(OH)CH <sub>2</sub> OH)	D,E	50%, +50°C	HQQE	HQQE	-	-	-
Hydraulic oil (mineral)	E,2,3	100%, +100°C	HQQV	HQQV	-	-	-
Hydraulic oil (synthetic)	E,2,3	100%, +100°C	HQQV	HQQV	-	-	-
Isopropyl alcohol (CH <sub>3</sub> CHOHCH <sub>3</sub> )	1,F	100%, +20°C	HQQE	HQQE	-	-	-
Lectic acid (CH <sub>3</sub> CH(OH)COOH)	E,H	10%, +20°C	-	-	HQQE	HQQE	HQQE
Linoleic acid (C <sub>17</sub> H <sub>31</sub> COOH)	E,3	100%, +20°C	HQQV	HQQV	-	-	-
Menthol (methyl alcohol) (CH <sub>3</sub> OH)	1,F	100%, +20°C	HQQE	HQQE	-	-	-
Motor oil	E,2,3	100%, +80°C	HQQV	HQQV	-	-	-
Naphthalene (C <sub>10</sub> H <sub>8</sub> )	E,H	100%, +80°C	HQQV	HQQV	-	-	-
Nitric acid (HNO <sub>3</sub> )	F	1%, +20°C	-	-	HQQE	HQQE	HQQE



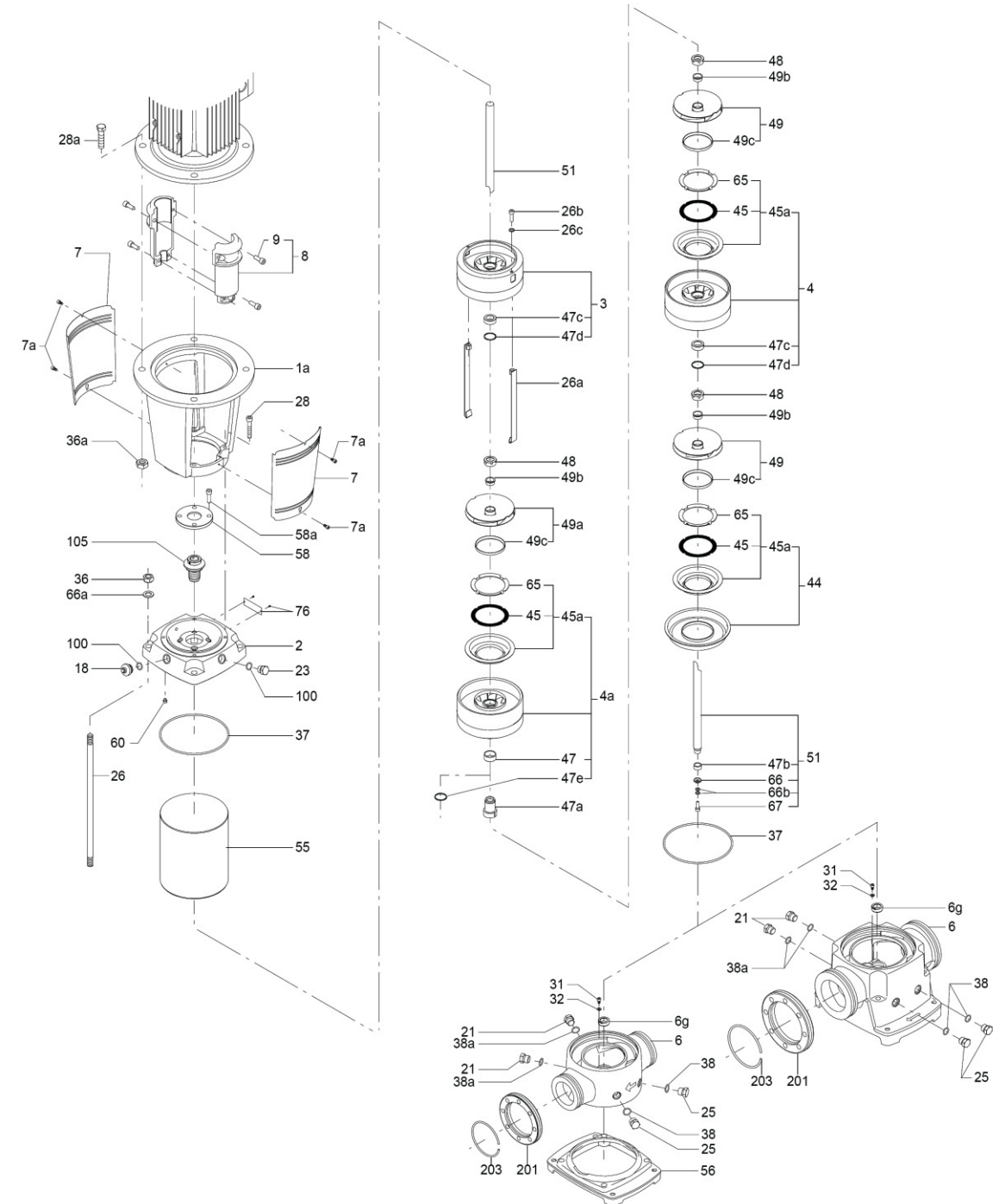
# EXPLODED VIEW

SCR, SCRI, SCRN 10, 15, 20



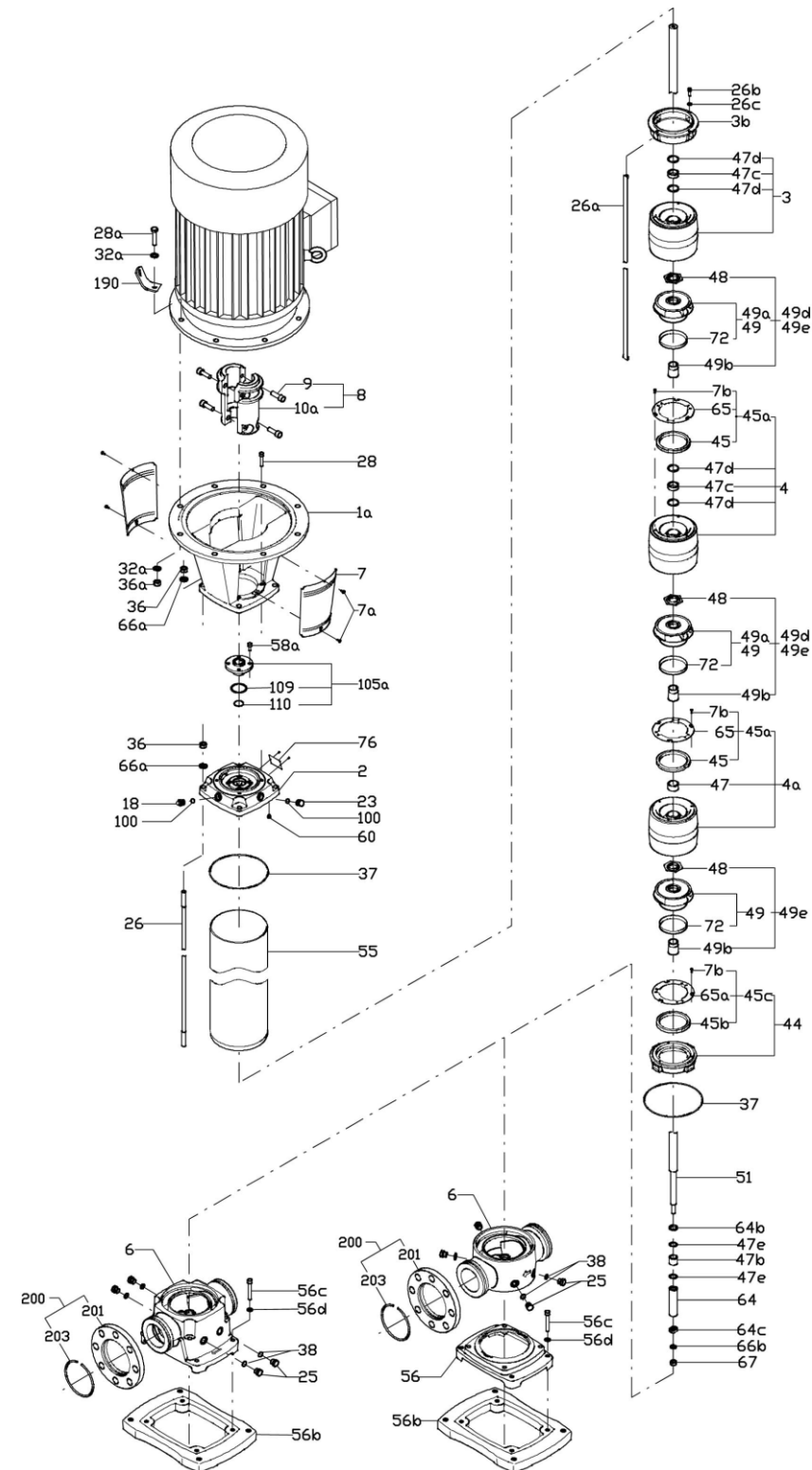
# EXPLODED VIEW

SCR, SCRN 32, 45, 64, 90



# PART LIST

## SCR, SCRN 120 & 150



# PART LIST

## SCR, SCRI & SCRN

POS. NO.	DESCRIPTION	POS. NO.	DESCRIPTION
1	Pump Head Base	47a	Bearing Ring, Rotating
1a	Motor Stool	47b	Bearing With, Driver
2	Pump Head	47c	Bearing Ring, Rotating
3	Chamber, Top	47d	Chamber Bush
4	Chamber Complete	47d	Chamber Back Plate Ring
4a	Chamber With Bearing Ring	48	Split Cone Nut
5a	Chamber Base	49	Impeller
6	Base	49b	Split Cone
6b	Base Complete	49c	Wear Ring
6g	Bearing Ring, Stationary	50a	Top Chamber
7	Coupling Guard	51	Pump Shaft
7a	Screw	55	Outer Sleeve
8	Coupling Complete	56	Base Plate
9	Screw	58	Seal Carrier
10	Shaft Pin	58a	Screw M10X25
10a	Coupling Half	60	Corrugated Spring
18	Air Vent Valve Complete	60	Pad
23	Filling Screw Assy	61	Seal Driver
25	Drain Plug	61	Shaft Clamp Bush SRN 1,3,5
26	Stay Bolt	62	Stop Ring
26a	Clamping Strap	64	Spacing Pipe
26b	Screw MSX30	64a	Spacing Pipe
26c	Washer (16X8.4X1.6)	64c	Clamp Splined
28	Screw	64d	Spacing Pipe
28a	Screw M16X50	65	Neckring Retainer
28b	Eye Bolt	66	Lock Washer
31	Screw M6X10	66a	StayBolt Washer (30x17x3)
32	Washer (11.8X6.5X1.45)	66b	Lock Washer (13.5x8.5x1.3)
32a	Washer	67	Lock Nut M8
35	Screw M10	69	Spacing Pipe
36	Nut	76	Name Plate Set
36a	Nut	76a	Screw Coupl. Guard
37	O-ring	77	Pump Head Cover
38	O-ring	100	O-ring
44	Inlet Part Complete	105	Shaft Seal
44a	Inlet Chamber Plate Assy	109	O-ring
44b	Inlet Chamber Stack	113	Grub Screw
45	Neckring	201	Flange
45a	Neckring Cup Complete	203	Flange Circlip
47	Bearing Ring Complete		