

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

SCR, SCRI, SCRN - 60 HZ BOOKLET



SHAKTI

THE POWER OF INNOVATION, EFFICIENCY & TECHNOLOGY.

CONTENT

PRODUCT DATA	PAGE NO.
Introduction	1
Applications	2
Product range	3
TYPE OF KEYS & CONSTRUCTION	
Type Keys SCR, SCRI, SCRN	4
Sectional drawing SCR, SCRN 1s,3,5,10,15 & 20	5
Sectional drawing SCR, SCRN 32, 45, 64 and 90	6
Sectional drawing SCR 125 and 155	7
OPERATING AND INLET PRESSURES	
Maximum Inlet Pressure	8
Electric Motor	8
Ambient Temperature	8
CONVERSION	
Conversion Table	9
SELECTION AND SIZING	
Selection of Pumps	10
TECHNICAL DATA /PERFORMANCE CURVES	
SCR 1s	11-12
SCRI, SCRN 1s	13-14
SCR 1	15-16
SCRI, SCRN 1	17-18
SCR 3	19-20
SCRI, SCRN 3	21-22
SCR 5	23-24
SCRI, SCRN 5	25-26
SCR 10	27-28
SCRI, SCRN 10	29-30
SCR 15	31-32
SCRI, SCRN 15	33-34
SCR 20	35-36
SCRI, SCRN 20	37-38
SCR, SCRI, SCRN 32	39-40
SCR, SCRI, SCRN 45	41-42
SCR, SCRI, SCRN 64	43-44
SCR, SCRI, SCRN 90	45-46
SCR 125	47-48
SCR 155	49-50
PUMPED FLUIDS	
Pumped Fluids	51
Shaft Seal	52
EXPLODED VIEW & PART LIST	
SCR, SCRI, SCRN 1s,1,3,5	53-54
SCR, SCRI, SCRN 10,15 & 20	55-56
SCR SCRN 32, 45, 64 & 90	57-58
SCR 125 & 155	59-60

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PRODUCT DATA

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 'Q'	Max 195m ³ /h
Head "H"	Max 240m
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.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PRODUCT DATA

APPLICATIONS	SCR, SCRI	SCRN
WATER SUPPLY		
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	◆	◇
INDUSTRY		
<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	◆	
WATER TREATMENT		
Ultra-filtration system		◆
Reverse osmosis system		◆
Softening ionising		◆
Distillation system		◆
Separators	◆	◆
Swimming baths		◆
IRRIGATION		
Field irrigation	◆	◇
Sprinkler irrigation	◆	◇
Drip-feed irrigation	◆	◇

◆ Recommended version

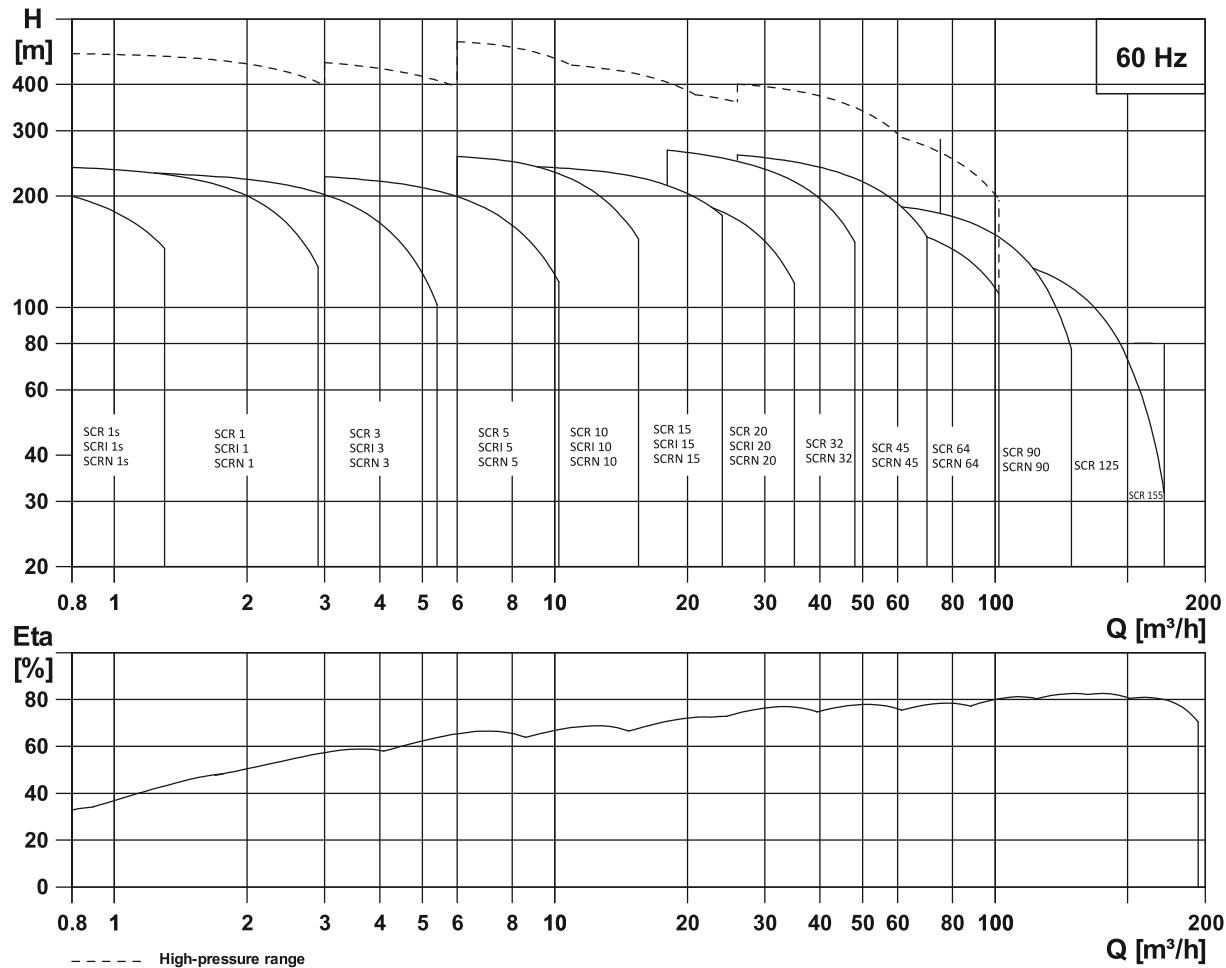
◇ Alternative version

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, 125	SCR, 155
Nominal flow rate (m ³ /h)	1	1.2	3.6	6	12	18	24	38	54	77	108	150	185
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	82	82
Flow rate (m ³ /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	0.55-7.5	0.75-11	1.5-18.5	2.2-18.5	2.2-30	5.5-45	7.5-45	11-45	15-55	18.5-55
Maximum pressure (bar)	-	48	42	48	47	47	47	40	40	36	33	38	38
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 150	DN 150

PERFORMANCE RANGE OF SCR, SCRI, SCRN



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TYPE OF KEYS & CONSTRUCTION

Example	S	C	R	N	-	4	5	-	(S)	-	2	-	2
Type range (SCR, SCRI, SCRN)													
Flow rate (m ³ /hr)													
All impellers with reduced Diameter only (SCR, SCRI, SCRN 1s)													
Number of impellers													
Number of reduced diameter Impellers (SCR, SCRN 32, 45, 64, 90, 125 & 155)													

Shaft seal description Max. temp. range

1. HQQE O-ring (cartridge) (balanced seal), SiC/SiC, EPDM
2. HBQE O-ring (cartridge) (balanced seal), Carbon/SiC, EPDM
3. HQQV O-ring (cartridge) (balanced seal), SiC/SiC, FKM
4. HUUV O-ring (cartridge) (balanced seal), Cemented tungsten carbide/ctc, FKM

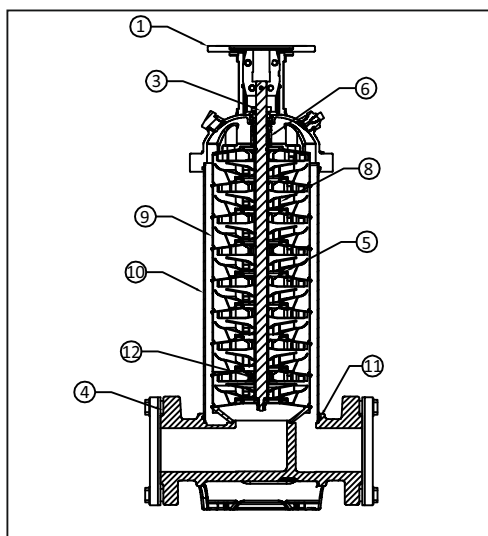
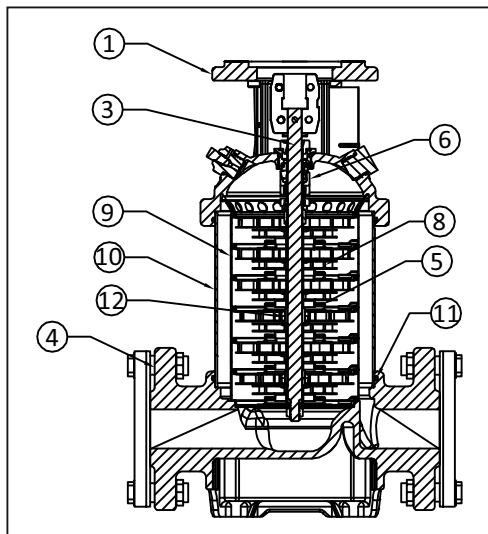
[°F]

- [-40 °F to +248 °F]
- [+32 °F to +248 °F]
- [-4 °F to +194 °F]
- [+32 °F to +194 °F]

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TYPE OF KEYS & CONSTRUCTION

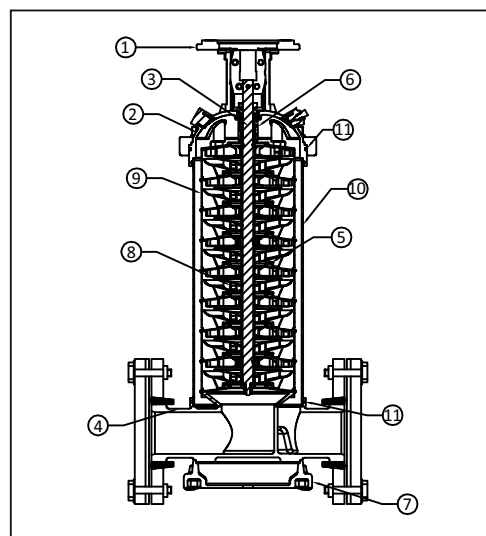
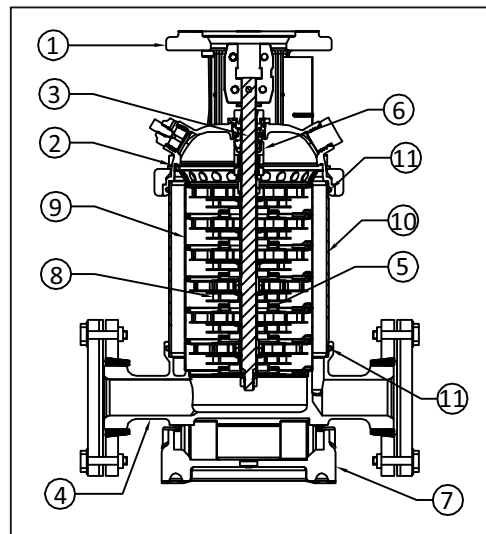
5.1 SECTIONAL DRAWING SCR 1S, 1, 3, 5, 10, 15 & 20



Materials SCR - 1S,1,3,5,10,15 & 20

Pos	Designation	Material
1	Pump Head	Cast Iron
3	Pump Shaft	Duplex
4	Pump Base	Cast Iron
5	Neck Ring	PTFE
6	Mech. Seal	Cartridge Type
8	Impeller	AISI SS 304
9	Chamber	AISI SS 304
10	Outer Sleeve	AISI SS 304
11	O-ring	EPDM/FKM
12	Radial bush	TUNGSTEN

SECTIONAL DRAWING SCRI, SCRN 1S, 1, 3, 5, 10, 15 & 20



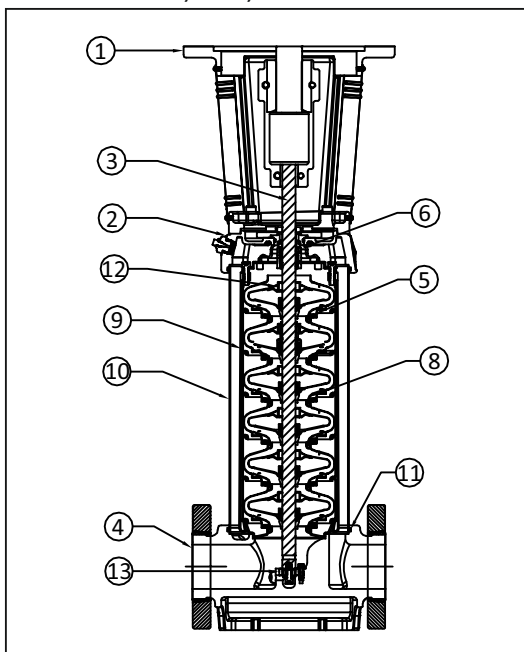
Materials SCRI, SCRN - 1S,1,3,5,10,15 & 20

Pos	Designation	Material of SCRI	Material of SCRN
1	Pump Head	Cast Iron	
2	Pump Head Cover	AISI SS 304	AISI SS 304
3	Pump Shaft	Duplex	
4	Pump Base	AISI SS 304	AISI SS 304
5	Neck Ring	PTFE	
6	Mech. Seal	Cartridge Type	
7	Base Plate	Cast Iron	
8	Impeller	AISI SS 304	AISI SS 304
9	Chamber	AISI SS 304	AISI SS 304
10	Outer Sleeve	AISI SS 304	AISI SS 304
11	O-ring	EPDM/FKM	
12	Radial bush	TUNGSTEN	

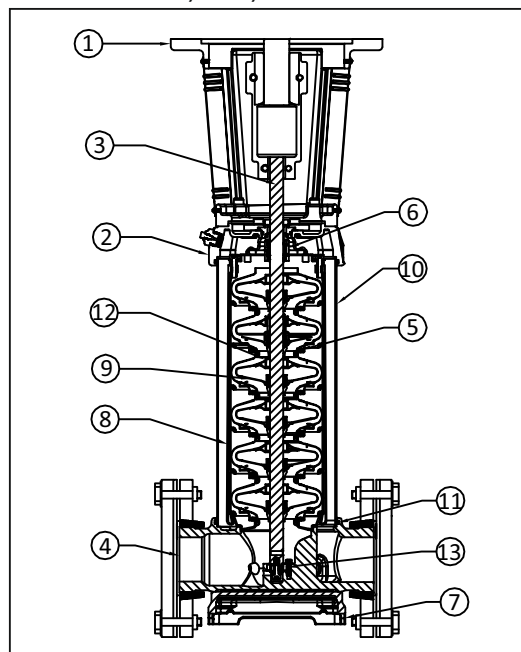
VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TYPE OF KEYS & CONSTRUCTION

5.2 SECTIONAL DRAWING SCR 32, 45, 64 & 90



SECTIONAL DRAWING SCRI & SCRN 32, 45, 64 & 90



Materials SCR - 32,45,64 & 90

Pos	Designation	Material
1	Motor Stool	Cast Iron
2	Pump Head	Cast Iron
3	Pump Shaft	AISI SS 316
4	Pump Base	Cast Iron
5	Neck Ring	PTFE
6	Mech. Seal	Cartridge Type
8	Impeller	AISI SS 304
9	Chamber	AISI SS 304
10	Outer Sleeve	AISI SS 304
11	O-ring	EPDM/FKM
12	Chamber bush	PTFE carbon graphite filled
13	Bearing Ring	Tungsten Carbide
14	Pump Base Bush	Tungsten
15	Bearing Ring Rotating	Tungsten

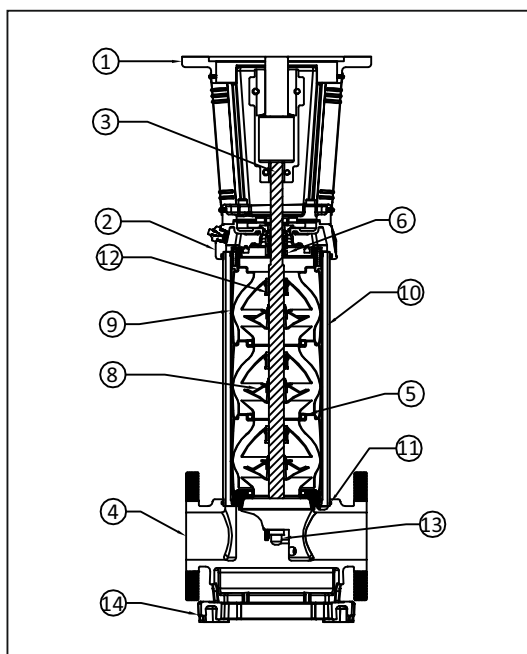
Materials SCRI & SCRN - 32,45,64 & 90

Materials of SCRN-32,45,64 & 90			
Pos	Designation	Material of SCRI	Material of SCRN
1	Motor Stool	Cast Iron	
2	Pump Head	AISI SS 304	AISI SS 316
3	Pump Shaft	AISI SS 316	
4	Pump Base	AISI SS 304	AISI SS 316
5	Neck Ring	PTFE	
6	Mech. Seal	Cartridge Type	
7	Base Plate	Cast Iron	
8	Impeller	AISI SS 304	AISI SS 316
9	Chamber	AISI SS 304	AISI SS 316
10	Outer Sleeve	AISI SS 304	AISI SS 316
11	O-ring	EPDM/FKM	
12	Chamber bush	PTFE carbon graphite filled	
13	Bearing Ring	Bronze	
14	Pump Base Bush	Tungsten	
15	Bearing Ring Rotating	Tungsten	

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TYPE OF KEYS & CONSTRUCTION

5.3 SECTIONAL DRAWING SCR 125 & 155



Materials SCR 125 & 155

Pos	Designation	Material
1	Motor Stool	Cast Iron
2	Pump Head	Cast Iron
3	Pump Shaft	AISI SS 316
4	Pump Base	Cast Iron
5	Neck Ring	PTFE
6	Mech. Seal	Cartridge Type
8	Impeller	AISI SS 304
9	Chamber	AISI SS 304
10	Outer Sleeve	AISI SS 304
11	O-ring	EPDM/FKM
12	Chamber bush	PTFE carbon graphite filled
13	Bearing Ring	Tungsten Carbide
14	Pump Base Bush	Tungsten
15	Bearing Ring Rotating	Tungsten
14	Pump Base Plate	Cast Iron

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

OPERATING AND INLET PRESSURES

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 125		
125-1-1	125-1	10 (bar)
125-2-2	125-2	15 (bar)
125-3-2	125-3	20 (bar)
SCR 155		
155-1-1	155-1	10 (bar)
155-2-2	155-2-1	15 (bar)
155-3	155-3-3	15 (bar)

Electric - Motor

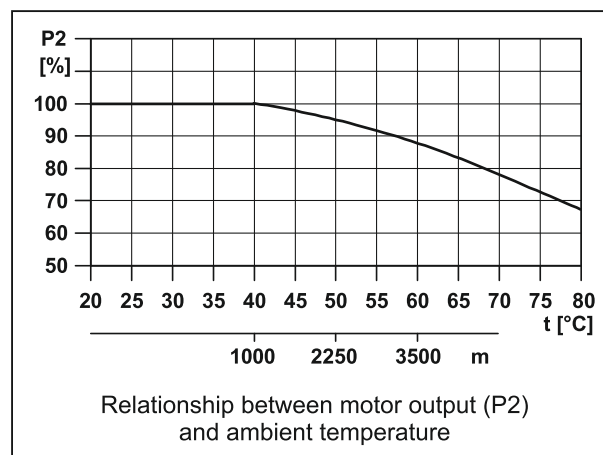
Full – enclosed two pole standard motor

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 3 x 380- 460V	Star/Delta

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.



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

CONVERSION

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 ³ /hr	-	1000 LPH		
1cu feet	-	28.32 Litres	-	62.4 lbs of water
1m ³ /hr	-	16.67 LPM		
1Litre/Second	-	60 LPM		

Pressure

1 Atmospheric Pressure	-	1.033 kg/cm ²
	-	14.7 lb/in ² (PSI)
	-	1.03 kg/cm ²
	-	33.9 feet of wc
1kg/cm ²	-	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)

$$120 \times \text{frequency (f)}$$

$$\text{RPM Ns} = \dots\dots\dots$$

$$\text{No. of pole pairs (p)}$$

Where,

RPM- Revolution per Minute

P - No. of pole pairs

F - Frequency (Hz)

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

SELECTION AND SIZING

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:

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

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_f=Friction loss in suction pipe in meters head.

(At the highest flow the pump will be delivering.)

H_v=Vapor pressure in meters head.

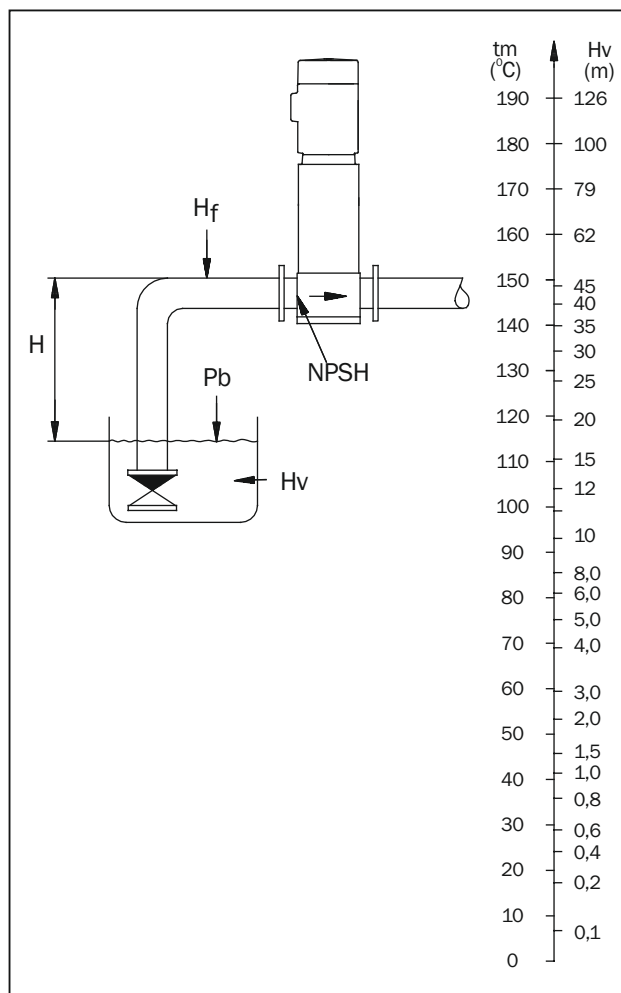
(To be read from the vapor pressure scale.

“H_v” depends on the liquid temperature “T_m”).

H_s=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.



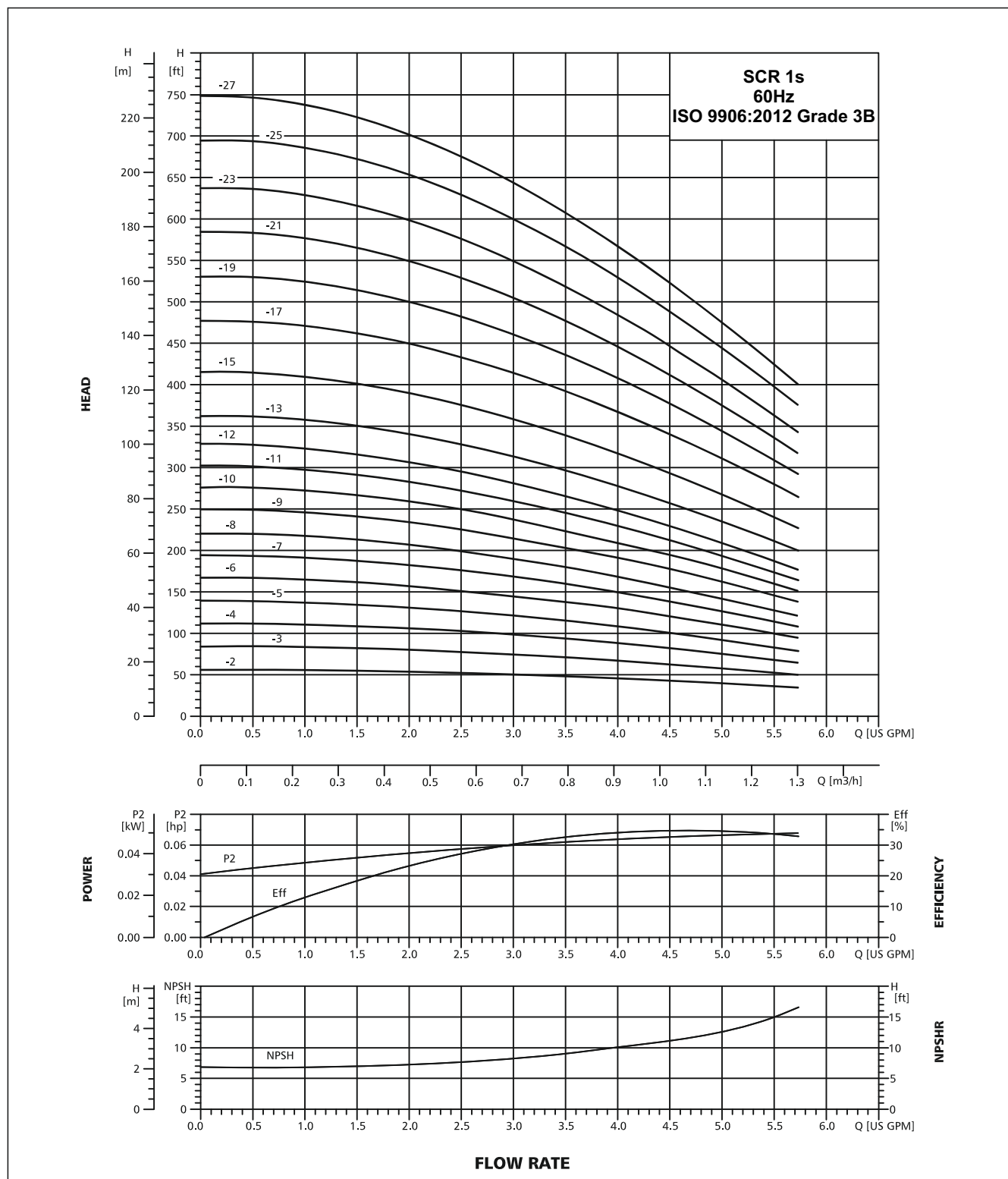
Note: In order to avoid cavitation never, select a pump whose duty point lies too far to the right on the NPSH curve.

Always check the NPSH value of the pump at the highest possible flow.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PERFORMANCE CURVES

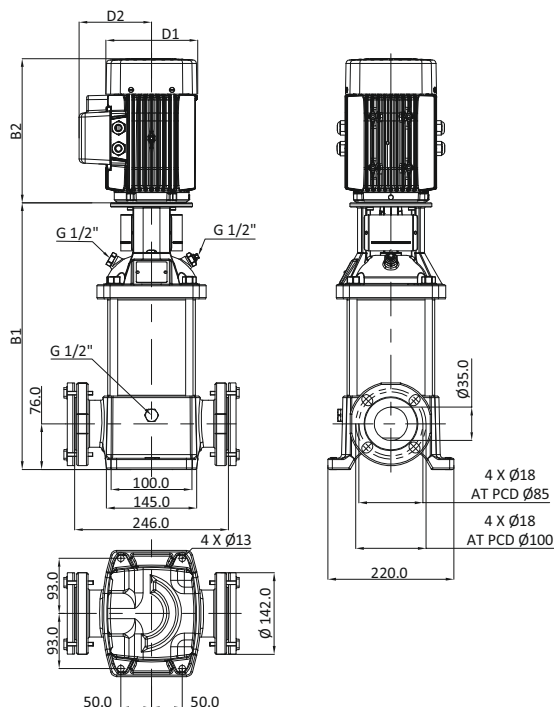
SCR 1s



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

MODEL	Size in mm						Weight (k.g.)
	B1	B2	B1+B2	D1	D2	D3	
SCR 1s- 2	262	191	452	141	129	NA	23
SCR 1s- 3	279	192	471	141	129	NA	23
SCR 1s- 4	297	192	489	141	129	NA	24
SCR 1s- 5	316	191	506	141	129	NA	24
SCR 1s- 6	334	198	532	141	129	NA	24
SCR 1s- 7	351	192	543	141	129	NA	24
SCR 1s- 8	370	192	562	141	129	NA	25
SCR 1s- 9	387	194	581	141	129	NA	26
SCR 1s- 10	406	192	598	141	129	NA	26
SCR 1s- 11	424	233	657	141	132	NA	28
SCR 1s- 12	441	233	675	141	132	NA	29
SCR 1s- 13	459	241	700	141	132	NA	29
SCR 1s- 15	495	233	729	141	132	NA	32
SCR 1s- 17	532	232	764	141	132	NA	33
SCR 1s- 19	567	233	800	141	132	NA	34
SCR 1s- 21	603	233	837	141	132	NA	35
SCR 1s- 23	640	281	921	178	109	NA	42
SCR 1s- 25	675	283	957	178	109	NA	42
SCR 1s- 27	711	281	992	178	109	NA	44

PERFORMANCE TABLE

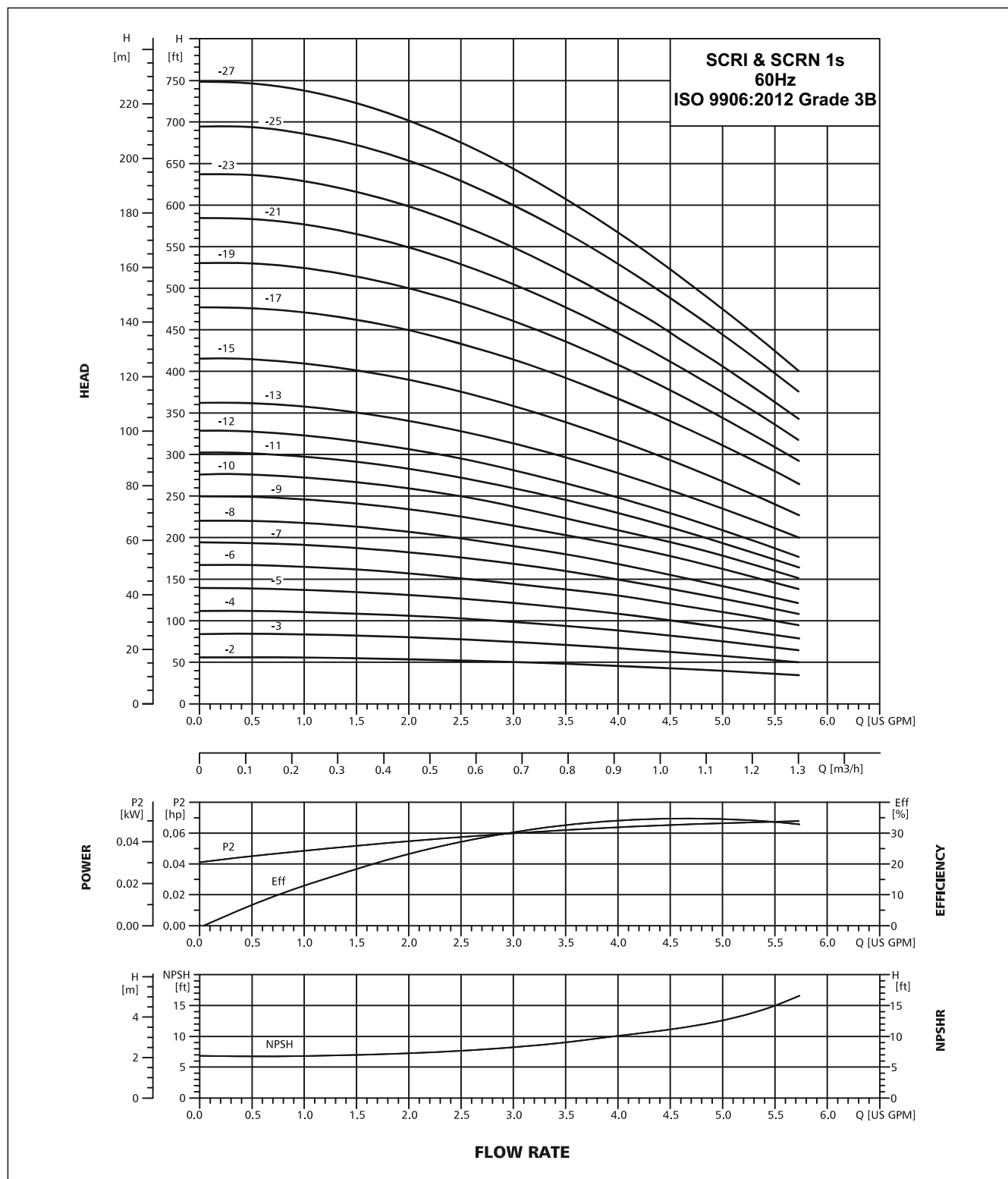
MODEL	KW	HP	M3/H	0	0.1	0.3	0.5	0.7	0.9	1.1	1.3
			US GPM	0	0.4	1.3	2.2	3.1	4.0	4.8	5.7
SCR 1s-2	0.37	0.5	HEAD (M)	19	18	17	16	15	14	13	10
SCR 1s-3	0.37	0.5		26	26	25	24	23	21	17	15
SCR 1s-4	0.37	0.5		34	34	33	32	30	27	24	20
SCR 1s-5	0.37	0.5		42	42	41	39	37	33	28	24
SCR 1s-6	0.37	0.5		51	51	49	47	44	40	35	28
SCR 1s-7	0.37	0.5		59	59	57	55	51	46	40	33
SCR 1s-8	0.55	0.75		67	67	65	62	57	52	44	36
SCR 1s-9	0.55	0.75		76	76	74	70	65	58	51	42
SCR 1s-10	0.55	0.75		84	84	82	77	71	64	76	45
SCR 1s-11	0.75	1		92	92	90	85	78	70	60	50
SCR 1s-12	0.75	1		100	100	97	92	85	76	66	54
SCR 1s-13	0.75	1		110	110	108	102	95	85	74	61
SCR 1s-15	1.1	1.5		126	126	123	117	108	97	84	70
SCR 1s-17	1.1	1.5		145	145	142	135	125	113	97	80
SCR 1s-19	1.1	1.5		161	161	157	150	139	125	108	89
SCR 1s-21	1.1	1.5		178	178	174	165	152	137	117	96
SCR 1s-23	1.5	2		194	194	189	180	166	148	127	105
SCR 1s-25	1.5	2		212	212	206	196	181	162	140	114
SCR 1s-27	1.5	2		227	227	220	211	194	174	149	122

- This performance table is approximate as a performance curve.
- Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PERFORMANCE CURVES

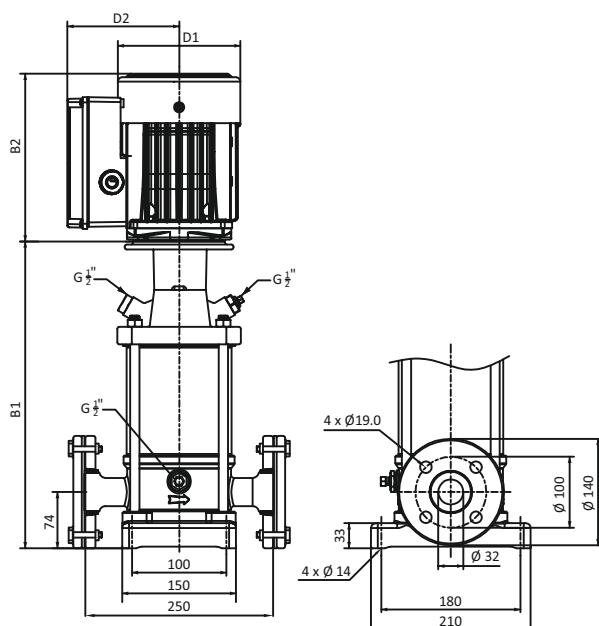
SCRI, SCRN 1s



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

MODEL	Size in mm						Weight (k.g.)
	B1	B2	B1+B2	D1	D2	D3	
SCRI, SCRN 1s - 2	283	171	454	141	129	NA	20
SCRI, SCRN 1s - 3	11	191	473	141	129	NA	21
SCRI, SCRN 1s - 4	12	191	490	141	129	NA	21
SCRI, SCRN 1s - 5	13	189	508	141	129	NA	21
SCRI, SCRN 1s - 6	12	211	527	141	129	NA	22
SCRI, SCRN 1s - 7	14	192	546	141	129	NA	22
SCRI, SCRN 1s - 8	15	189	562	141	129	NA	23
SCRI, SCRN 1s - 9	15	191	581	141	129	NA	24
SCRI, SCRN 1s - 10	16	191	598	141	129	NA	24
SCRI, SCRN 1s - 11	17	230	657	141	129	NA	27
SCRI, SCRN 1s - 12	18	205	649	141	129	NA	275
SCRI, SCRN 1s - 13	18	230	692	141	129	NA	27
SCRI, SCRN 1s - 15	20	230	729	141	109	NA	30
SCRI, SCRN 1s - 17	21	230	764	141	109	NA	31
SCRI, SCRN 1s - 19	23	229	800	141	109	NA	32
SCRI, SCRN 1s - 21	24	226	837	141	109	NA	33
SCRI, SCRN 1s - 23	26	272	921	178	109	NA	40
SCRI, SCRN 1s - 25	27	273	957	178	109	NA	41
SCRI, SCRN 1s - 27	28	271	992	178	121	NA	42

PERFORMANCE TABLE

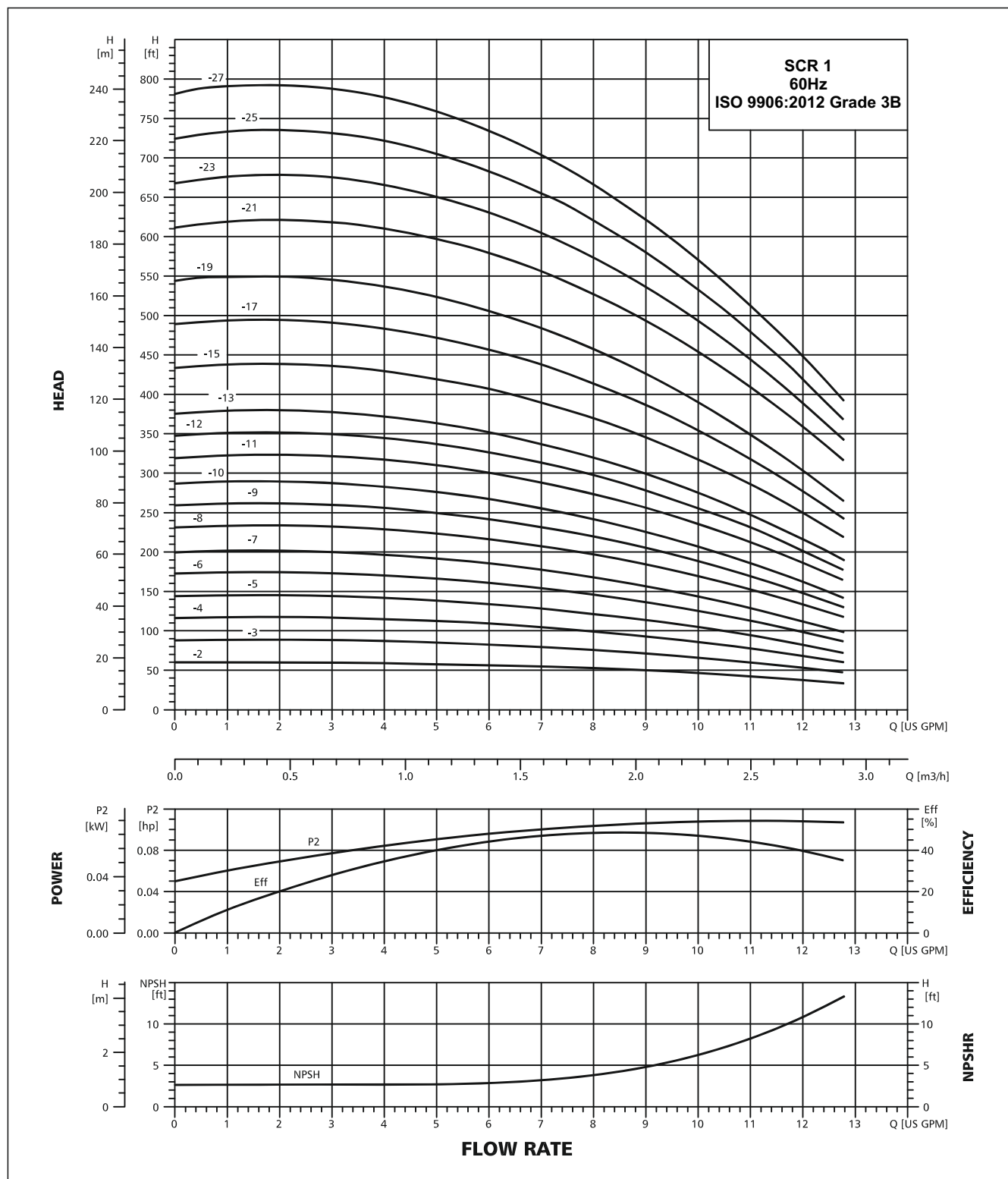
MODEL	KW	HP	M3/H	0	0.1	0.3	0.5	0.7	0.9	1.1	1.3
			US GPM	0	0.4	1.3	2.2	3.1	4.0	4.8	5.7
SCRI,SCRN 1s-2	0.37	0.5	HEAD (M)	19	18	17	16	15	14	13	10
SCRI,SCRN 1s-3	0.37	0.5		26	26	25	24	23	21	17	15
SCRI,SCRN 1s-4	0.37	0.5		34	34	33	32	30	27	24	20
SCRI,SCRN 1s-5	0.37	0.5		42	42	41	39	37	33	28	24
SCRI,SCRN 1s-6	0.37	0.5		51	51	49	47	44	40	35	28
SCRI,SCRN 1s-7	0.37	0.5		59	59	57	55	51	46	40	33
SCRI,SCRN 1s-8	0.55	0.75		67	67	65	62	57	52	44	36
SCRI,SCRN 1s-9	0.55	0.75		76	76	74	70	65	58	51	42
SCRI,SCRN 1s-10	0.55	0.75		84	84	82	77	71	64	76	45
SCRI,SCRN 1s-11	0.75	1.0		92	92	90	85	78	70	60	50
SCRI,SCRN 1s-12	0.75	1.0		100	100	97	92	85	76	66	54
SCRI,SCRN 1s-13	0.75	1.0		110	110	108	102	95	85	74	61
SCRI,SCRN 1s-15	1.1	1.5		126	126	123	117	108	97	84	70
SCRI,SCRN 1s-17	1.1	1.5		145	145	142	135	125	113	97	80
SCRI,SCRN 1s-19	1.1	1.5		161	161	157	150	139	125	108	89
SCRI,SCRN 1s-21	1.1	1.5		178	178	174	165	152	137	117	96
SCRI,SCRN 1s-23	1.5	2.0		194	194	189	180	166	148	127	105
SCRI,SCRN 1s-25	1.5	2.0		212	212	206	196	181	162	140	114
SCRI,SCRN 1s-27	1.5	2.0		227	227	220	211	194	174	149	122

- This performance table is approximate as a performance curve.
- Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PERFORMANCE CURVES

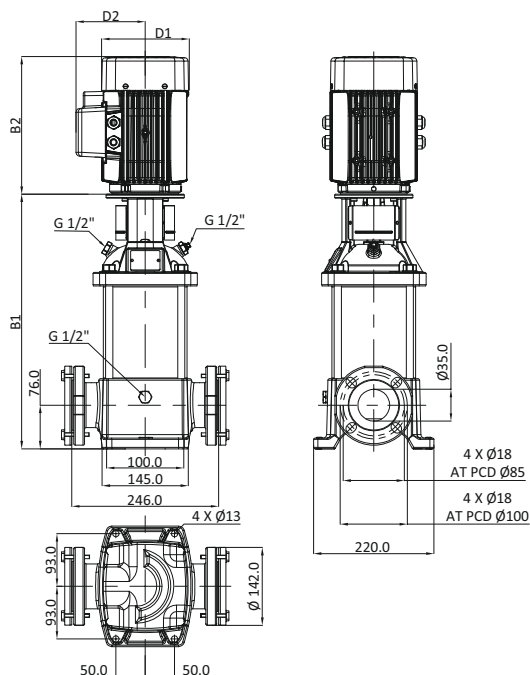
SCR 1



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

MODEL	SIZE IN MM						WEIGHT (K.G.)
	B1	B2	B1+B2	D1	D2	D3	
SCR 1- 2	365	202	567	143	130	NA	23
SCR 1- 3	365	202	567	143	130	NA	23
SCR 1- 4	365	202	567	143	130	NA	23
SCR 1- 5	365	202	567	143	130	NA	23
SCR 1- 6	365	202	567	143	130	NA	24
SCR 1- 7	365	240	605	143	130	NA	27
SCR 1- 8	365	240	605	143	130	NA	27
SCR 1- 9	464	240	704	143	130	NA	28
SCR 1- 10	464	240	704	143	130	NA	30
SCR 1- 11	464	240	704	143	130	NA	31
SCR 1- 12	472	240	712	143	130	NA	31
SCR 1- 13	571	240	811	143	130	NA	32
SCR 1- 15	571	278	849	173	142	NA	39
SCR 1- 17	571	278	849	173	142	NA	40
SCR 1- 19	571	312	883	173	162	NA	44
SCR 1- 21	679	312	991	173	162	NA	45
SCR 1- 23	679	312	991	173	162	NA	46
SCR 1- 25	693	312	1005	173	162	NA	47
SCR 1- 27	837	335	1172	225	182	NA	53

PERFORMANCE TABLE

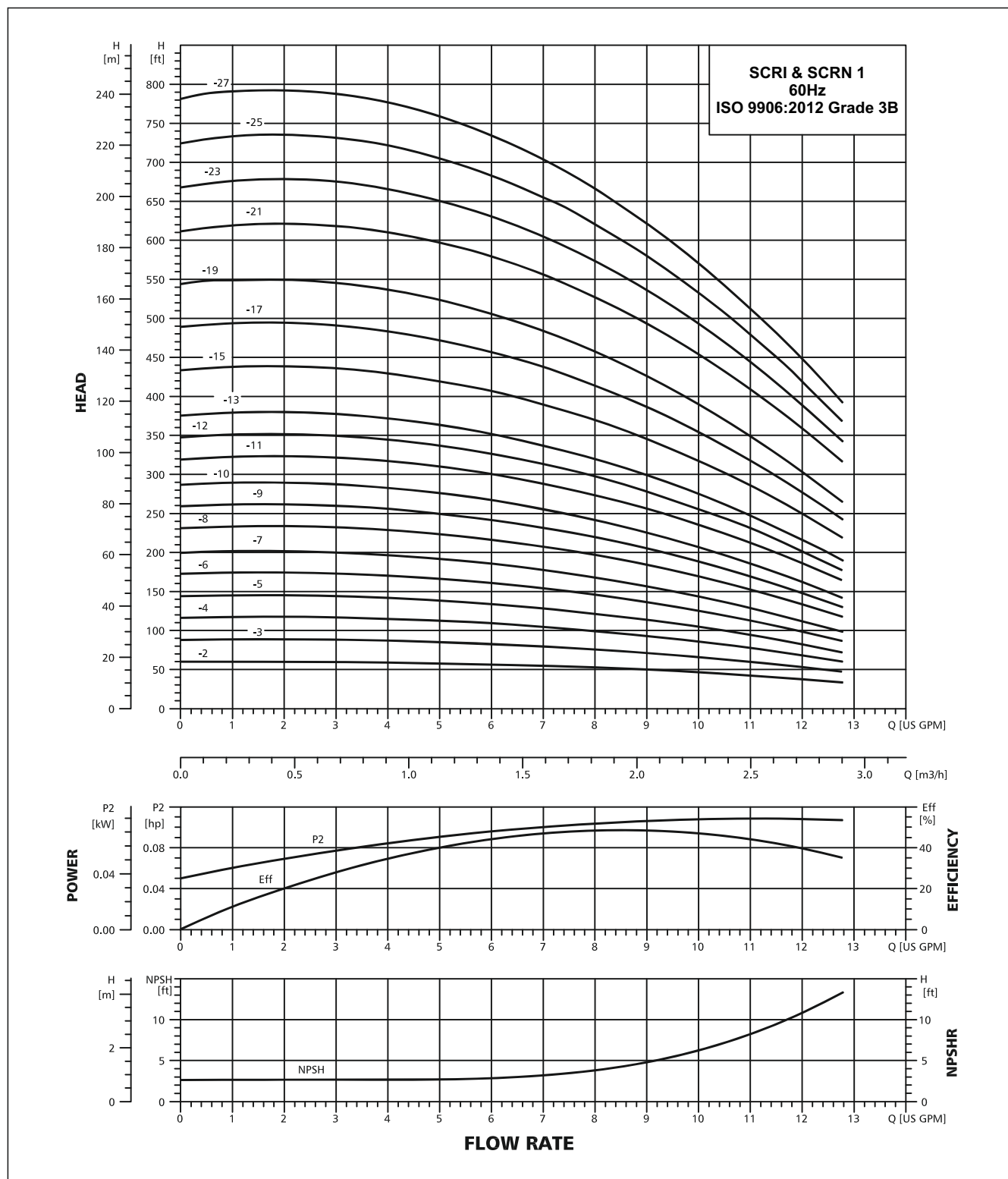
MODEL	KW	HP	M3/H	0	0.4	0.8	1.2	1.6	2	2.4	2.8
			US GPM	0	2	3.5	5	7	9	11	12
SCR 1-2	0.37	0.5	HEAD (M)	18	18	18	17	16	15	13	11
SCR 1-3	0.37	0.5		27	27	27	26	24	22	18	15
SCR 1-4	0.37	0.5		35	36	35	34	32	28	25	20
SCR 1-5	0.55	0.75		43	44	43	41	39	35	30	24
SCR 1-6	0.55	0.75		52	53	52	50	47	42	36	28
SCR 1-7	0.75	1		61	62	60	57	54	48	42	32
SCR 1-8	0.75	1		70	71	70	67	63	57	48	38
SCR 1-9	0.75	1		79	80	79	75	70	64	54	43
SCR 1-10	1.1	1.5		87	88	86	84	77	70	60	47
SCR 1-11	1.1	1.5		107	109	107	94	87	79	67	54
SCR 1-12	1.1	1.5		101	102	101	102	95	86	74	57
SCR 1-13	1.1	1.5		114	116	114	110	102	92	79	63
SCR 1-15	1.5	2		132	134	132	126	118	106	91	72
SCR 1-17	1.5	2		149	151	148	143	133	119	102	80
SCR 1-19	2.2	3		165	167	165	158	147	132	112	87
SCR 1-21	2.2	3		186	189	187	180	169	152	131	104
SCR 1-23	2.2	3		203	206	205	196	184	165	142	112
SCR 1-25	2.2	3		220	224	222	213	199	179	154	121
SCR 1-27	3	4		239	241	239	229	214	192	164	130

- This performance table is approximate as a performance curve.
- Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PERFORMANCE CURVES

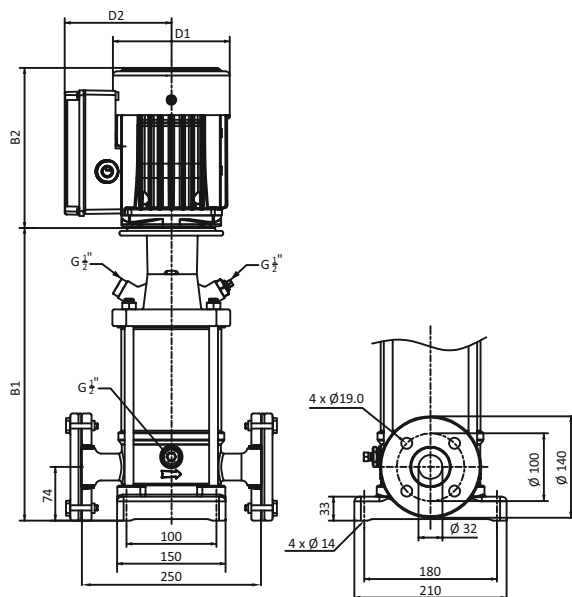
SCRI, SCRN 1



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

MODEL	Size in mm						Weight (k.g.)
	B1	B2	B1+B2	D1	D2	D3	
SCRI, SCRN 1 - 2	283	194	476	141	129	NA	19
SCRI, SCRN 1 - 3	11	194	476	141	129	NA	19
SCRI, SCRN 1 - 4	12	194	494	141	129	NA	20
SCRI, SCRN 1 - 5	13	192	511	141	129	NA	20
SCRI, SCRN 1 - 6	12	194	510	141	129	NA	20
SCRI, SCRN 1 - 7	14	233	588	141	129	NA	20
SCRI, SCRN 1 - 8	15	232	605	141	129	NA	22
SCRI, SCRN 1 - 9	15	233	624	141	129	NA	23
SCRI, SCRN 1 - 10	16	233	641	141	129	NA	23
SCRI, SCRN 1 - 11	17	233	660	141	129	NA	23
SCRI, SCRN 1 - 12	18	233	678	141	129	NA	25
SCRI, SCRN 1 - 13	18	233	695	141	129	NA	26
SCRI, SCRN 1 - 15	20	281	780	178	109	NA	26
SCRI, SCRN 1 - 17	21	281	814	178	109	NA	28
SCRI, SCRN 1 - 19	23	279	851	178	109	NA	29
SCRI, SCRN 1 - 21	24	283	894	178	109	NA	30
SCRI, SCRN 1 - 23	26	281	930	178	109	NA	30
SCRI, SCRN 1 - 25	27	281	965	178	109	NA	38
SCRI, SCRN 1 - 27	28	335	1056	198	121	NA	38

PERFORMANCE TABLE

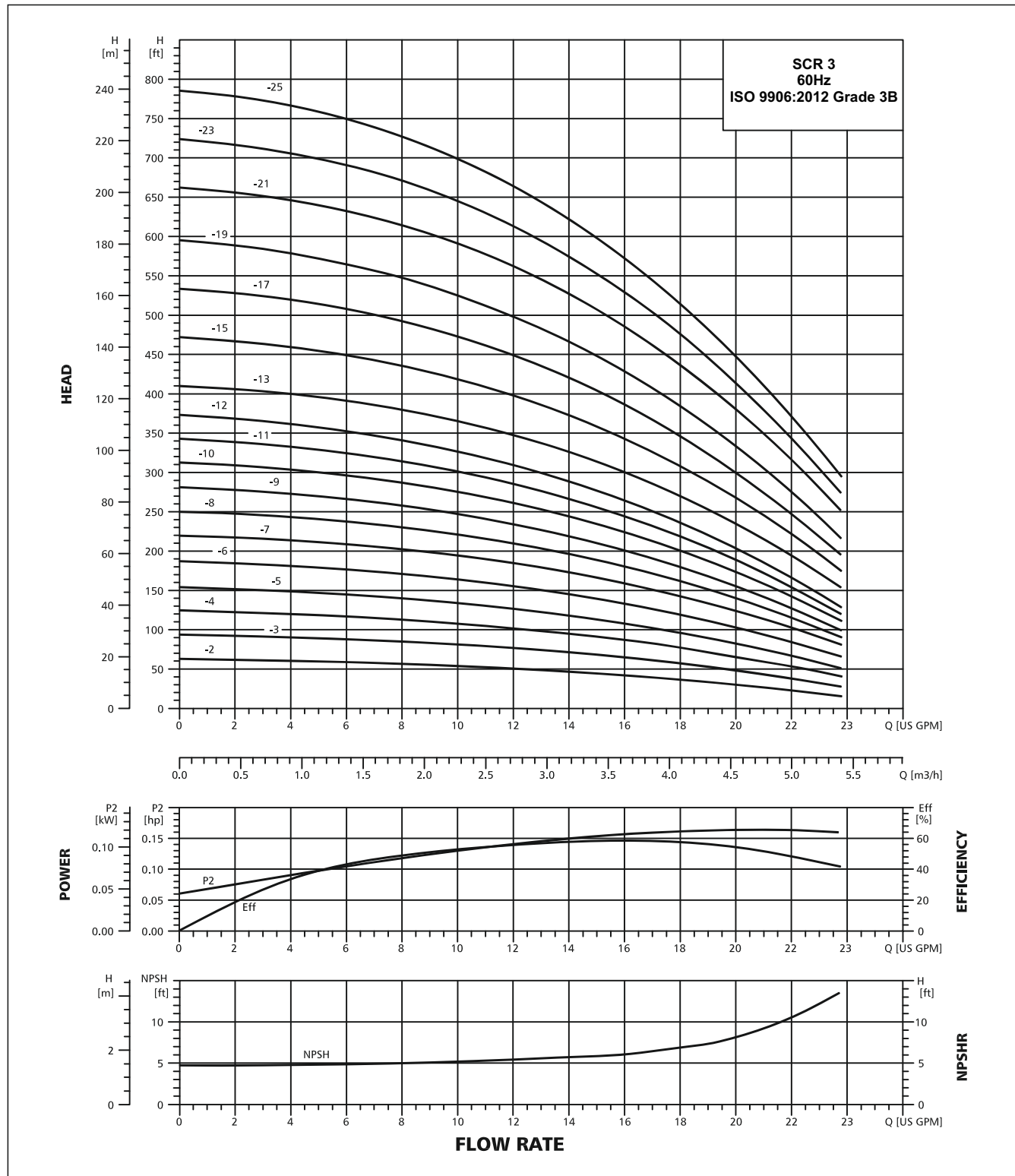
MODEL	KW	HP	M3/H	0	0.4	0.8	1.2	1.6	2	2.4	2.8
			US GPM	0	2	4	5	7	9	11	12
SCRI,SCRN 1-2	0.37	0.5	HEAD (M)	18	18	18	17	16	15	13	11
SCRI,SCRN 1-3	0.37	0.5		27	27	27	26	24	22	18	15
SCRI,SCRN 1-4	0.37	0.5		35	36	35	34	32	28	25	20
SCRI,SCRN 1-5	0.55	0.75		43	44	43	41	39	35	30	24
SCRI,SCRN 1-6	0.55	0.75		52	53	52	50	47	42	36	28
SCRI,SCRN 1-7	0.75	1		61	62	60	57	54	48	42	32
SCRI,SCRN 1-8	0.75	1		70	71	70	67	63	57	48	38
SCRI,SCRN 1-9	0.75	1		79	80	79	75	70	64	54	43
SCRI,SCRN 1-10	1.1	1.5		87	88	86	84	77	70	60	47
SCRI,SCRN 1-11	1.1	1.5		107	109	107	94	87	79	67	54
SCRI,SCRN 1-12	1.1	1.5		101	102	101	102	95	86	74	57
SCRI,SCRN 1-13	1.1	1.5		114	116	114	110	102	92	79	63
SCRI,SCRN 1-15	1.5	2		132	134	132	126	118	106	91	72
SCRI,SCRN 1-17	1.5	2		149	151	148	143	133	119	102	80
SCRI,SCRN 1-19	2.2	3		165	167	165	158	147	132	112	87
SCRI,SCRN 1-21	2.2	3		186	189	187	180	169	152	131	104
SCRI,SCRN 1-23	2.2	3		203	206	205	196	184	165	142	112
SCRI,SCRN 1-25	2.2	3		220	224	222	213	199	179	154	121
SCRI,SCRN 1-27	3	4		239	241	239	229	214	192	164	130

- This performance table is approximate as a performance curve.
- Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PERFORMANCE CURVES

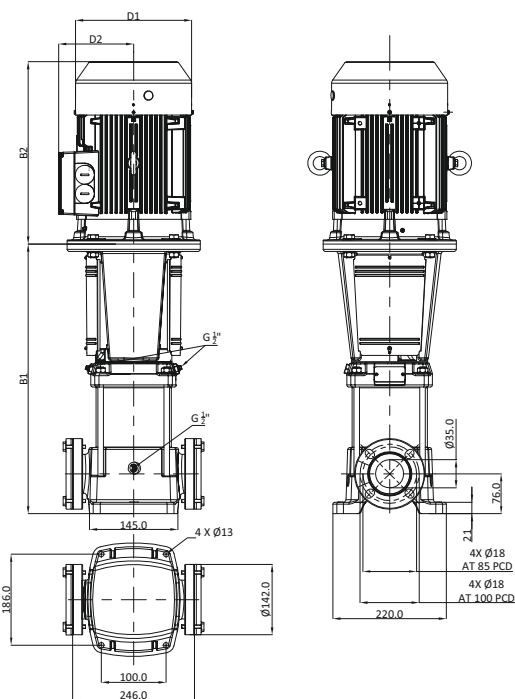
SCR 3



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

MODEL	size in mm						Weight (k.g.)
	B1	B2	B1+B2	D1	D2	D3	
SCR 3 - 2	267	192	459	141	129	NA	23
SCR 3 - 3	284	194	478	141	129	NA	24
SCR 3 - 4	303	192	495	141	129	NA	24
SCR 3 - 5	321	233	554	141	132	NA	26
SCR 3 - 6	338	233	572	141	132	NA	29
SCR 3 - 7	356	235	591	141	132	NA	29
SCR 3 - 8	375	233	608	141	132	NA	29
SCR 3 - 9	392	281	673	178	109	NA	37
SCR 3 - 10	411	281	692	178	109	NA	37
SCR 3 - 11	429	281	710	178	109	NA	38
SCR 3 - 12	446	281	727	178	109	NA	39
SCR 3 - 13	465	281	746	178	109	NA	40
SCR 3 - 15	483	281	764	178	109	NA	41
SCR 3 - 17	519	281	800	178	109	NA	48
SCR 3 - 19	554	335	889	198	121	NA	49
SCR 3 - 21	591	335	926	198	121	NA	49
SCR 3 - 23	627	335	962	198	121	NA	49
SCR 3 - 25	662	395	1057	226	191	NA	59

PERFORMANCE TABLE

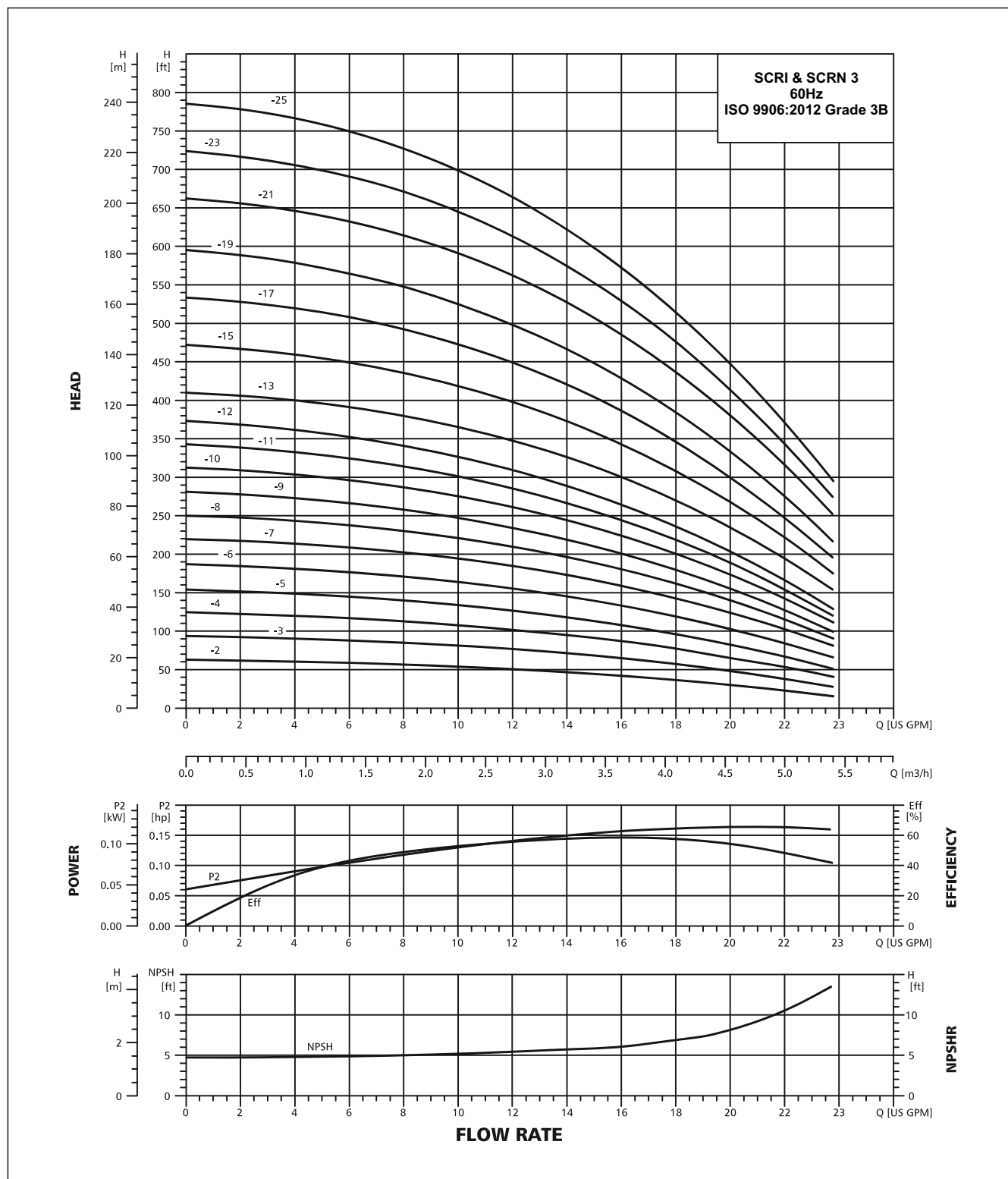
MODEL	KW	HP	M3/H US GPM	0	0.7	1.4	2.1	2.8	3.5	4.2	4.9
				0	3	6	9	12	15	18	22
SCR 3-2	0.37	0.5	HEAD (M)	19	18	17	16	15	13	10	7
SCR 3-3	0.55	0.75		28	27	26	25	23	20	16	12
SCR 3-4	0.55	0.75		38	37	36	33	30	27	23	17
SCR 3-5	0.75	1		47	46	44	42	38	34	28	22
SCR 3-6	1.1	1.5		57	56	54	51	47	42	35	27
SCR 3-7	1.1	1.5		67	66	64	60	55	50	42	33
SCR 3-8	1.1	1.5		76	75	72	68	63	56	57	36
SCR 3-9	1.5	2		86	84	81	77	70	63	53	40
SCR 3-10	1.5	2		95	93	90	85	79	70	59	45
SCR 3-11	1.5	2		104	102	98	94	86	76	65	48
SCR 3-12	2.2	3		114	101	107	101	93	83	70	53
SCR 3-13	2.2	3		125	123	119	103	105	94	80	62
SCR 3-15	2.2	3		144	141	136	130	120	107	91	71
SCR 3-17	2.2	3		163	160	155	142	135	120	102	79
SCR 3-19	3	4		181	178	171	163	150	134	114	88
SCR 3-21	3	4		202	198	192	183	170	152	129	100
SCR 3-23	3	4		220	216	210	200	185	165	140	109
SCR 3-25	4	5.5		240	235	227	216	200	179	152	118

- This performance table is approximate as a performance curve.
- Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PERFORMANCE CURVES

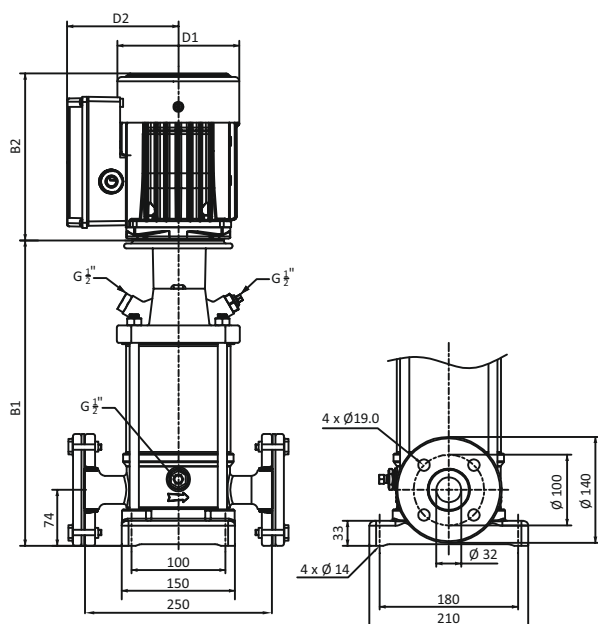
SCRI, SCRN 3



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

MODEL	size in mm						Weight (k.g.)
	B1	B2	B1+B2	D1	D2	D3	
SCRI, SCRN 3- 2	270	192	462	141	129	NA	20
SCRI, SCRN 3-3	287	194	481	141	129	NA	21
SCRI, SCRN 3-4	305	194	499	141	129	NA	22
SCRI, SCRN 3-5	324	233	557	141	132	NA	24
SCRI, SCRN 3-6	341	233	575	141	132	NA	27
SCRI, SCRN 3-7	360	232	592	141	132	NA	27
SCRI, SCRN 3-8	378	233	611	141	132	NA	28
SCRI, SCRN 3-9	395	281	676	178	109	NA	35
SCRI, SCRN 3-10	414	281	695	178	109	NA	35
SCRI, SCRN 3-11	432	281	713	178	109	NA	35
SCRI, SCRN 3-12	449	281	730	178	109	NA	36
SCRI, SCRN 3-13	468	281	749	178	109	NA	37
SCRI, SCRN 3-15	484	283	767	178	109	NA	38
SCRI, SCRN 3-17	522	281	803	178	109	NA	38
SCRI, SCRN 3-19	557	335	892	198	121	NA	46
SCRI, SCRN 3-21	594	335	929	198	121	NA	46
SCRI, SCRN 3-23	630	335	965	198	121	NA	47
SCRI, SCRN 3-25	665	395	1060	226	191	NA	57

PERFORMANCE TABLE

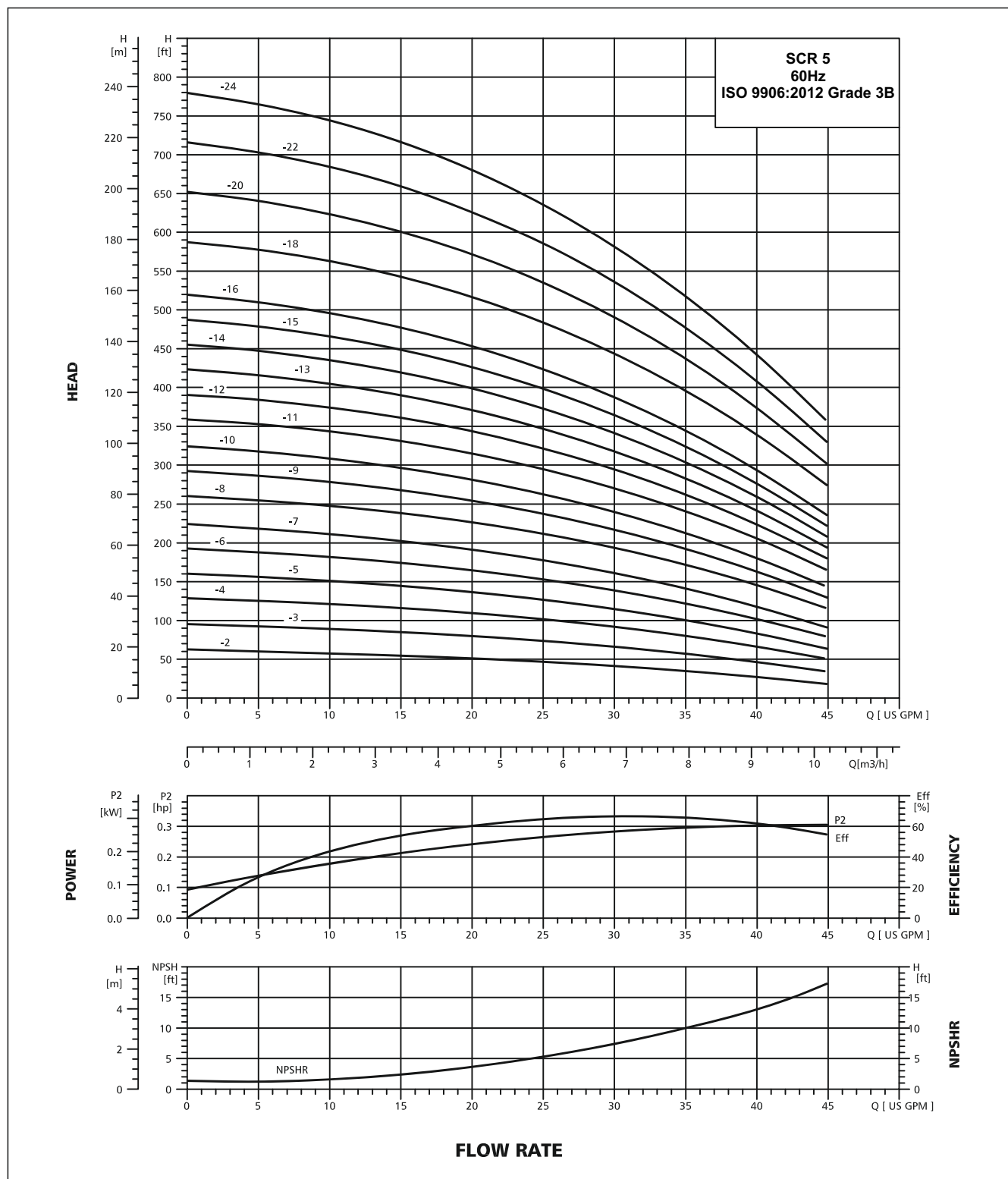
MODEL	KW	HP	M3/H	0	0.7	1.4	2.1	2.8	3.5	4.2	4.9
			US GPM	0	3	6	9	12	15	18	22
SCRI, SCRN 3-2	0.37	0.5	HEAD (M)	19	18	17	16	15	13	10	7
SCRI, SCRN 3-3	0.55	0.75		28	27	26	25	23	20	16	12
SCRI, SCRN 3-4	0.55	0.75		38	37	36	33	30	27	23	17
SCRI, SCRN 3-5	0.75	1		47	46	44	42	38	34	28	22
SCRI, SCRN 3-6	1.1	1.5		57	56	54	51	47	42	35	27
SCRI, SCRN 3-7	1.1	1.5		67	66	64	60	55	50	42	33
SCRI, SCRN 3-8	1.1	1.5		76	75	72	68	63	56	57	36
SCRI, SCRN 3-9	1.5	2		86	84	81	77	70	63	53	40
SCRI, SCRN 3-10	1.5	2		95	93	90	85	79	70	59	45
SCRI, SCRN 3-11	1.5	2		104	102	98	94	86	76	65	48
SCRI, SCRN 3-12	2.2	3		114	101	107	101	93	83	70	53
SCRI, SCRN 3-13	2.2	3		125	123	119	103	105	94	80	62
SCRI, SCRN 3-15	2.2	3		144	141	136	130	120	107	91	71
SCRI, SCRN 3-17	2.2	3		163	160	155	142	135	120	102	79
SCRI, SCRN 3-19	3	4		181	178	171	163	150	134	114	88
SCRI, SCRN 3-21	3	4		202	198	192	183	170	152	129	100
SCRI, SCRN 3-23	3	4		220	216	210	200	185	165	140	109
SCRI, SCRN 3-25	4	5.5		240	235	227	216	200	179	152	118

- This performance table is approximate as a performance curve.
- Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PERFORMANCE CURVES

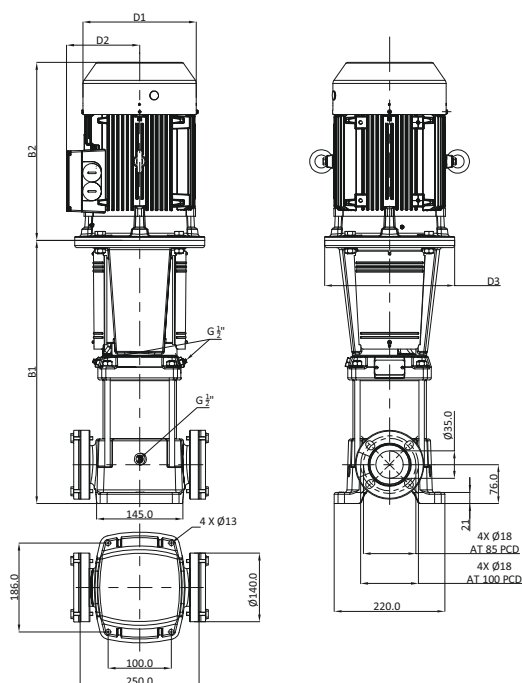
SCR 5



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

MODEL	size in mm						Weight (k.g.)
	B1	B2	B1+B2	D1	D2	D3	
SCR 5 - 2	283	194	476	141	129	NA	23
SCR 5 - 3	310	233	543	141	132	NA	28
SCR 5 - 4	337	233	570	141	132	NA	28
SCR 5 - 5	363	281	645	178	111	NA	36
SCR 5 - 6	391	281	672	178	111	NA	37
SCR 5 - 7	418	281	699	178	111	NA	38
SCR 5 - 8	445	281	725	178	111	NA	38
SCR 5 - 9	471	281	753	178	111	NA	39
SCR 5 - 10	499	335	833	198	121	NA	46
SCR 5 - 11	526	335	861	198	121	NA	46
SCR 5 - 12	552	335	887	198	121	NA	47
SCR 5 - 13	579	394	973	226	191	NA	56
SCR 5 - 14	607	394	1000	226	191	NA	57
SCR 5 - 15	633	394	1027	226	191	NA	58
SCR 5 - 16	660	394	1054	226	191	NA	58
SCR 5 - 18	715	414	1129	226	191	300	74
SCR 5 - 20	768	414	1183	226	191	300	75
SCR 5 - 22	822	414	1237	226	191	300	76
SCR 5 - 24	876	414	1291	226	191	300	89

PERFORMANCE TABLE

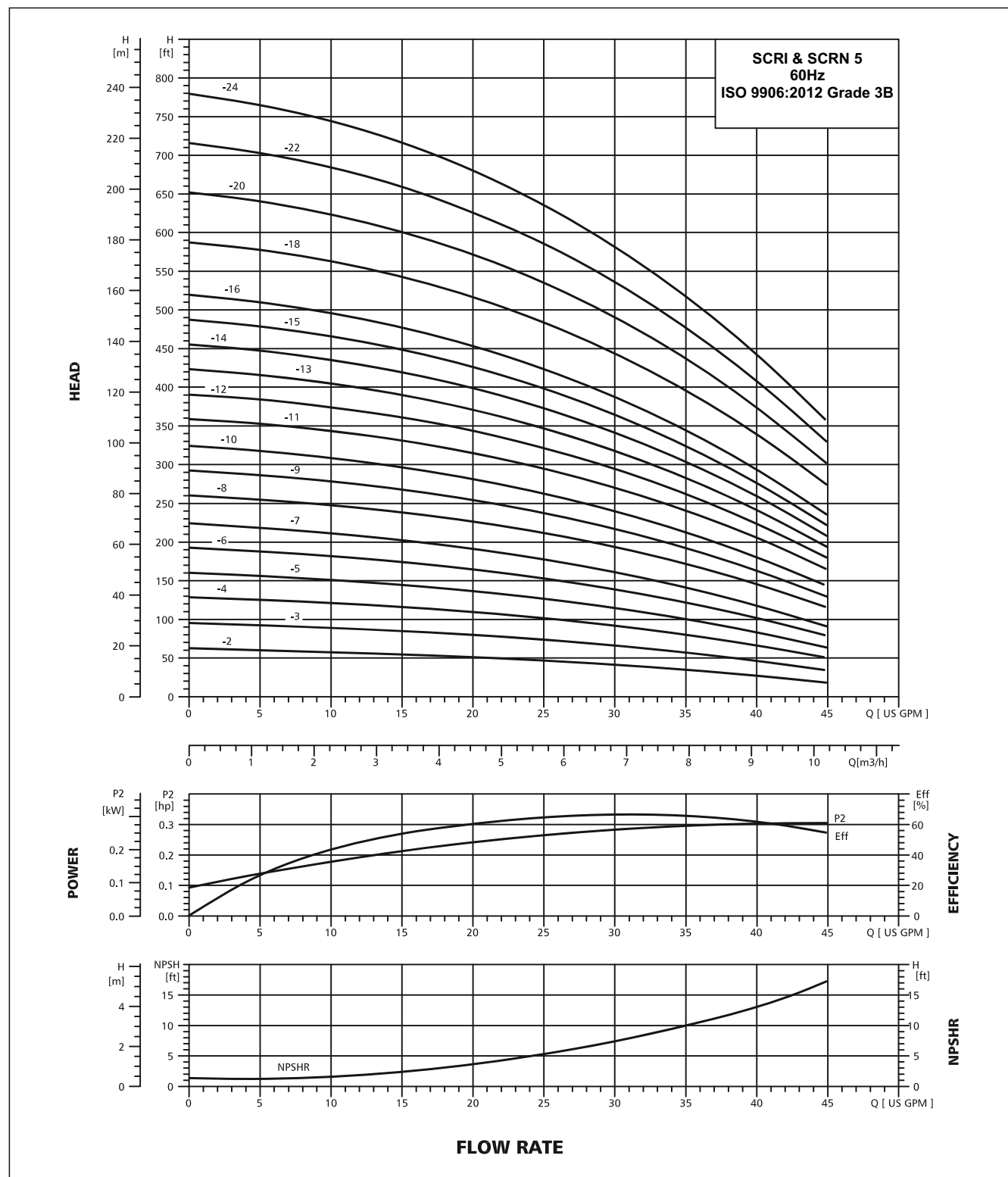
MODEL	STAGE	KW	HP	M3/H	0	1.5	3	4.5	6	7.5	9	10
				US GPM	0	7	13	20	26	33	40	44
SCR 5-2	2	0.55	0.75	HEAD (M)	19	18	17	16	13	11	8	6
SCR 5-3	3	1.1	1.5		29	27	26	24	22	18	14	11
SCR 5-4	4	1.1	1.5		39	37	36	34	30	26	20	16
SCR 5-5	5	1.5	2		48	47	45	41	37	32	26	20
SCR 5-6	6	2.2	3		58	57	54	50	45	40	32	25
SCR 5-7	7	2.2	3		68	66	63	58	53	45	36	29
SCR 5-8	8	2.2	3		79	77	74	69	63	55	45	37
SCR 5-9	9	2.2	3		89	86	83	77	70	61	50	42
SCR 5-10	10	3	4		99	96	92	86	78	68	56	46
SCR 5-11	11	3	4		109	107	103	96	88	76	64	53
SCR 5-12	12	3	4		119	156	112	105	95	84	69	57
SCR 5-13	13	4	5.5		129	126	120	114	103	90	75	62
SCR 5-14	14	4	5.5		139	145	129	122	111	97	80	66
SCR 5-15	15	4	5.5		148	145	139	130	119	104	85	70
SCR 5-16	16	4	5.5		158	154	147	138	126	110	90	75
SCR 5-18	18	5.5	7.5		179	175	163	158	144	126	105	87
SCR 5-20	20	5.5	7.5		199	194	186	174	159	140	115	96
SCR 5-22	22	5.5	7.5		217	213	201	191	174	153	126	105
SCR 5-24	24	5.5	7.5		238	232	221	207	193	165	134	116

- This performance table is approximate as a performance curve.
- Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PERFORMANCE CURVES

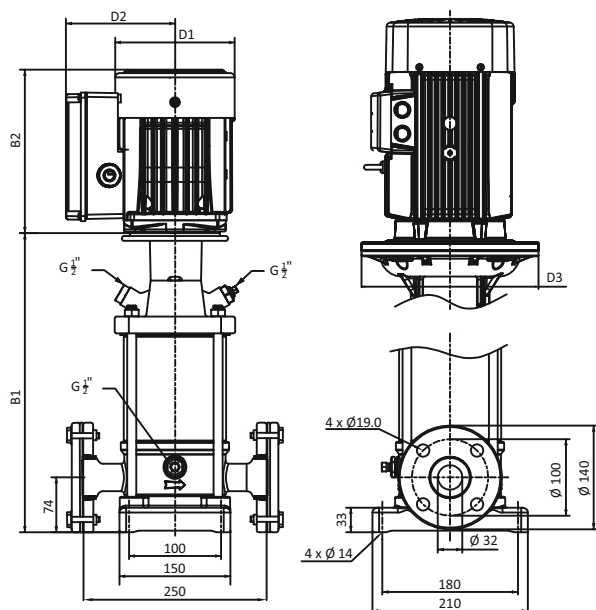
SCRI, SCRN 5



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

MODEL	size in mm						Weight (k.g.)
	B1	B2	B1+B2	D1	D2	D3	
SCRI, SCRN 5 - 2	286	192	478	141	129	NA	21
SCRI, SCRN 5 - 3	313	233	546	141	132	NA	26
SCRI, SCRN 5 - 4	340	233	573	141	132	NA	27
SCRI, SCRN 5 - 5	367	281	648	178	111	NA	34
SCRI, SCRN 5 - 6	394	281	675	178	111	NA	35
SCRI, SCRN 5 - 7	421	281	702	178	111	NA	35
SCRI, SCRN 5 - 8	448	281	729	178	111	NA	36
SCRI, SCRN 5 - 9	475	281	756	178	111	NA	37
SCRI, SCRN 5 - 10	502	335	837	198	121	NA	44
SCRI, SCRN 5 - 11	529	335	864	198	121	NA	44
SCRI, SCRN 5 - 12	556	335	891	198	121	NA	40
SCRI, SCRN 5 - 13	583	394	976	226	191	NA	54
SCRI, SCRN 5 - 14	610	394	1003	226	191	NA	55
SCRI, SCRN 5 - 15	637	394	1030	226	191	NA	55
SCRI, SCRN 5 - 16	664	394	1057	226	191	NA	56
SCRI, SCRN 5 - 18	718	414	1132	226	191	300	71
SCRI, SCRN 5 - 20	772	414	1186	226	191	300	72
SCRI, SCRN 5 - 22	826	414	1240	226	191	300	73
SCRI, SCRN 5 - 24	880	414	1294	226	191	300	86

PERFORMANCE TABLE

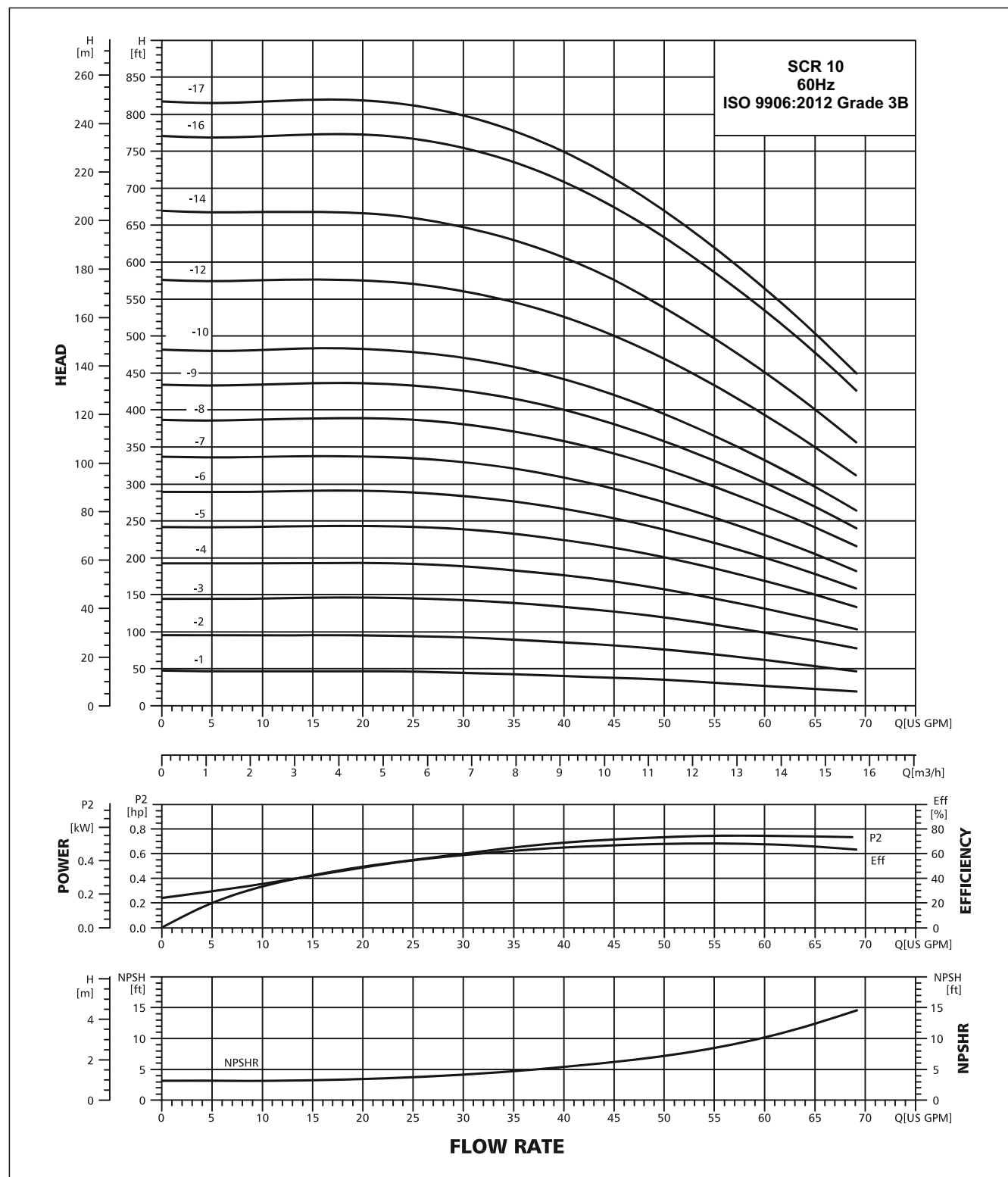
MODEL	STAGE	KW	HP	M3/H US GPM	0	1.5	3	4.5	6	7.5	9	10
					0	7	13	20	26	33	40	44
SCRI,SCRN 5-2	2	0.55	0.75	HEAD (M)	19	18	17	16	13	11	8	6
SCRI,SCRN 5-3	3	1.1	1.5		29	27	26	24	22	18	14	11
SCRI,SCRN 5-4	4	1.1	1.5		39	37	36	34	30	26	20	16
SCRI,SCRN 5-5	5	1.5	2		48	47	45	41	37	32	26	20
SCRI,SCRN 5-6	6	2.2	3		58	57	54	50	45	40	32	25
SCRI,SCRN 5-7	7	2.2	3		68	66	63	58	53	45	36	29
SCRI,SCRN 5-8	8	2.2	3		79	77	74	69	63	55	45	37
SCRI,SCRN 5-9	9	2.2	3		89	86	83	77	70	61	50	42
SCRI,SCRN 5-10	10	3	4		99	96	92	86	78	68	56	46
SCRI,SCRN 5-11	11	3	4		109	107	103	96	88	76	64	53
SCRI,SCRN 5-12	12	3	4		119	156	112	105	95	84	69	57
SCRI,SCRN 5-13	13	4	5.5		129	126	120	114	103	90	75	62
SCRI,SCRN 5-14	14	4	5.5		139	145	129	122	111	97	80	66
SCRI,SCRN 5-15	15	4	5.5		148	145	139	130	119	104	85	70
SCRI,SCRN 5-16	16	4	5.5		158	154	147	138	126	110	90	75
SCRI,SCRN 5-18	18	5.5	7.5		179	175	163	158	144	126	105	87
SCRI,SCRN 5-20	20	5.5	7.5		199	194	186	174	159	140	115	96
SCRI,SCRN 5-22	22	5.5	7.5		217	213	201	191	174	153	126	105
SCRI,SCRN 5-24	24	5.5	7.5		238	232	221	207	193	165	134	116

- This performance table is approximate as a performance curve.
- Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PERFORMANCE CURVES

SCR 10

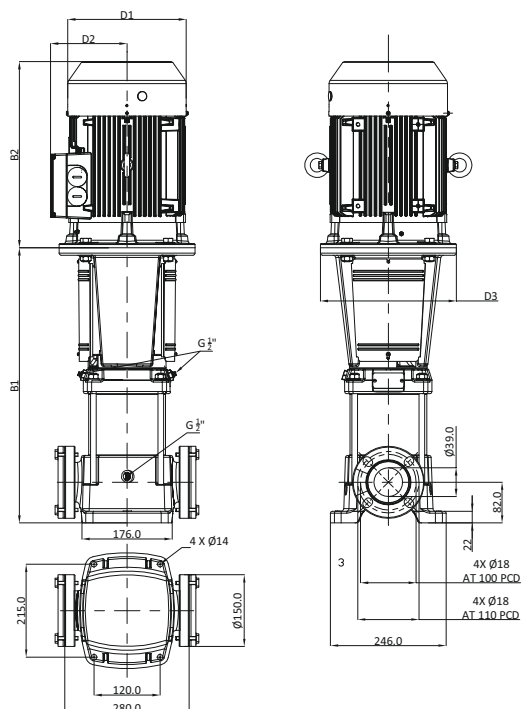


VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE

Dimensions and Weight



MODEL	Size in mm						Weight (k.g.)
	B1	B2	B1+B2	D1	D2	D3	
SCR 10 - 1	359	194	552	141	129	NA	34
SCR 10 - 2	389	233	622	141	132	NA	36
SCR 10 - 3	419	232	651	141	132	NA	39
SCR 10 - 4	449	281	730	178	111	NA	47
SCR 10 - 5	478	283	760	178	111	NA	49
SCR 10 - 6	508	335	843	198	121	251	50
SCR 10 - 7	538	414	953	226	191	300	57
SCR 10 - 8	568	414	983	226	191	300	58
SCR 10 - 9	598	415	1013	226	191	300	60
SCR 10 - 10	629	414	1043	226	191	300	69
SCR 10 - 12	689	414	1103	226	191	300	71
SCR 10 - 14	749	505	1254	330	256	350	94
SCR 10 - 16	808	506	1314	330	256	350	96
SCR 10 - 17	868	505	1373	330	256	350	109

PERFORMANCE TABLE

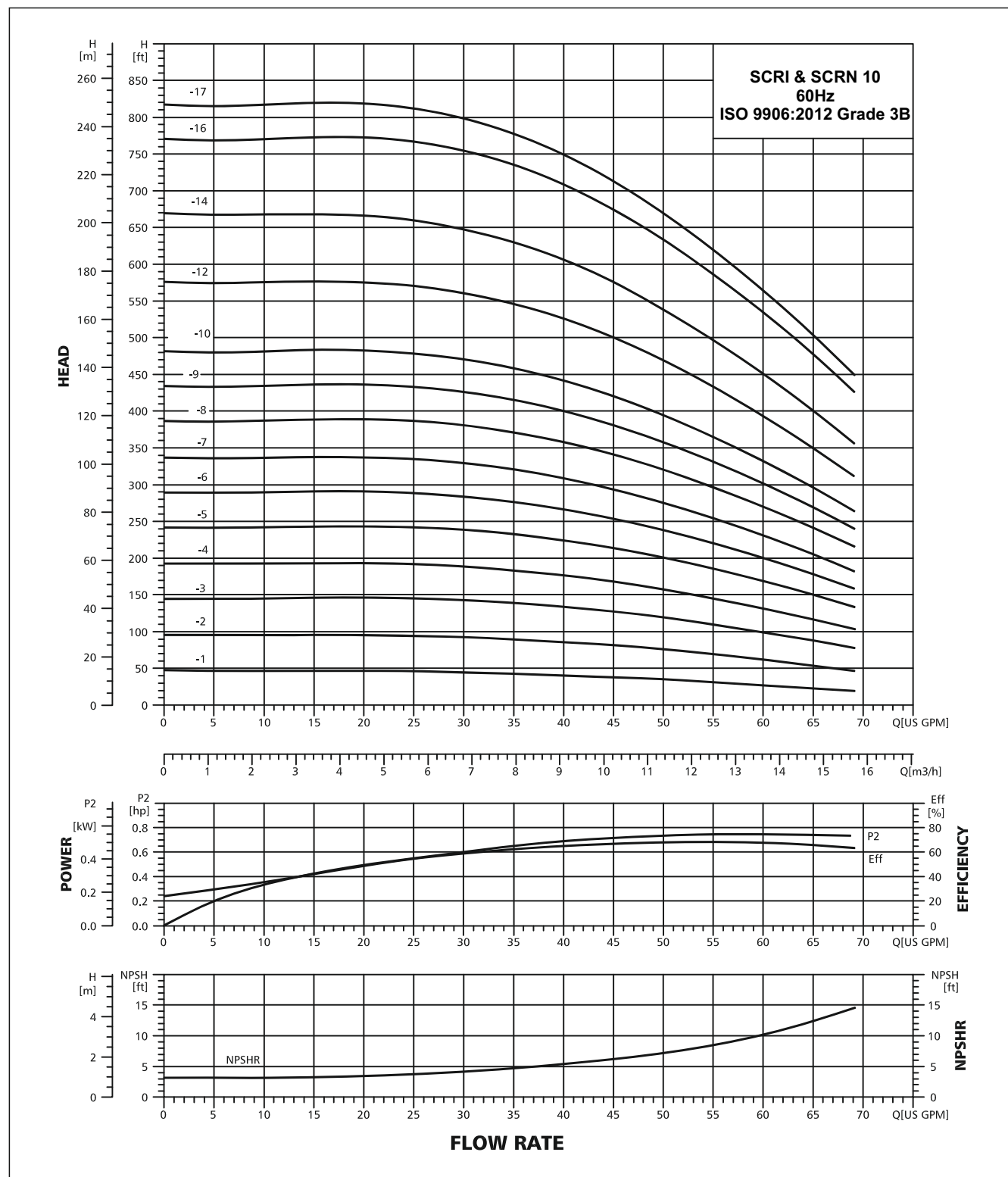
MODEL	STAGE	KW	HP	M3/H	0	3	5	7	9	11	13	15
				US GPM	0	13	22	31	40	48	57	66
SCR 10-1	1	0.75	1	HEAD (M)	14	14	14	13	12	11	9	7
SCR 10-2	2	1.5	2		29	29	29	28	26	24	20	15
SCR 10-3	3	2.2	3		44	44	43	42	40	37	32	26
SCR 10-4	4	3	4		68	68	68	67	54	49	43	35
SCR 10-5	5	3	4		74	74	74	73	68	63	54	44
SCR 10-6	6	4	5.5		88	88	88	86	82	74	64	53
SCR 10-7	7	5.5	7.5		103	103	103	100	94	86	74	61
SCR 10-8	8	5.5	7.5		117	117	117	115	110	100	86	92
SCR 10-9	9	5.5	7.5		133	133	133	130	122	111	97	80
SCR 10-10	10	7.5	10		147	147	147	143	135	123	107	88
SCR 10-12	12	7.5	10		176	176	175	170	160	146	126	104
SCR 10-14	14	11	15		205	204	202	196	185	167	145	119
SCR 10-16	16	11	15		245	245	245	228	216	97	172	142
SCR 10-17	17	11	15		249	250	249	242	219	208	181	149

- This performance table is approximate as a performance curve.
- Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PERFORMANCE CURVES

SCRI, SCRN 10

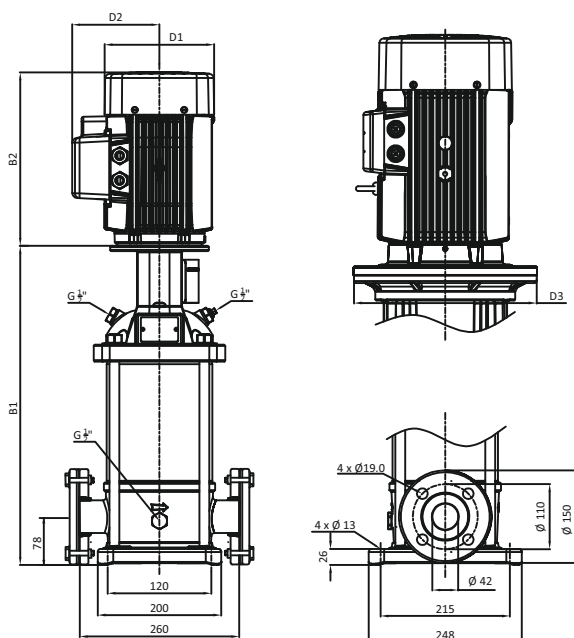


VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE

Dimensions and Weight



MODEL	Size in mm						Weight (k.g.)
	B1	B2	B1+B2	D1	D2	D3	
SCRI, SCRN 10 - 1	349	232	581	141	132	NA	34
SCRI, SCRN 10 - 2	379	281	660	178	111	NA	44
SCRI, SCRN 10 - 3	408	281	689	178	111	NA	45
SCRI, SCRN 10 - 4	438	335	773	198	121	NA	53
SCRI, SCRN 10 - 5	468	335	803	198	121	NA	54
SCRI, SCRN 10 - 6	499	394	892	226	191	NA	64
SCRI, SCRN 10 - 7	529	415	943	226	191	300	85
SCRI, SCRN 10 - 8	559	414	973	226	191	300	86
SCRI, SCRN 10 - 9	589	414	1003	226	191	300	87
SCRI, SCRN 10 - 10	619	413	1032	226	191	300	99
SCRI, SCRN 10 - 12	679	413	1092	226	191	300	101
SCRI, SCRN 10 - 14	738	505	1243	330	256	350	144
SCRI, SCRN 10 - 16	800	503	1303	330	256	350	146
SCRI, SCRN 10 - 17	859	505	1364	330	256	350	148

PERFORMANCE TABLE

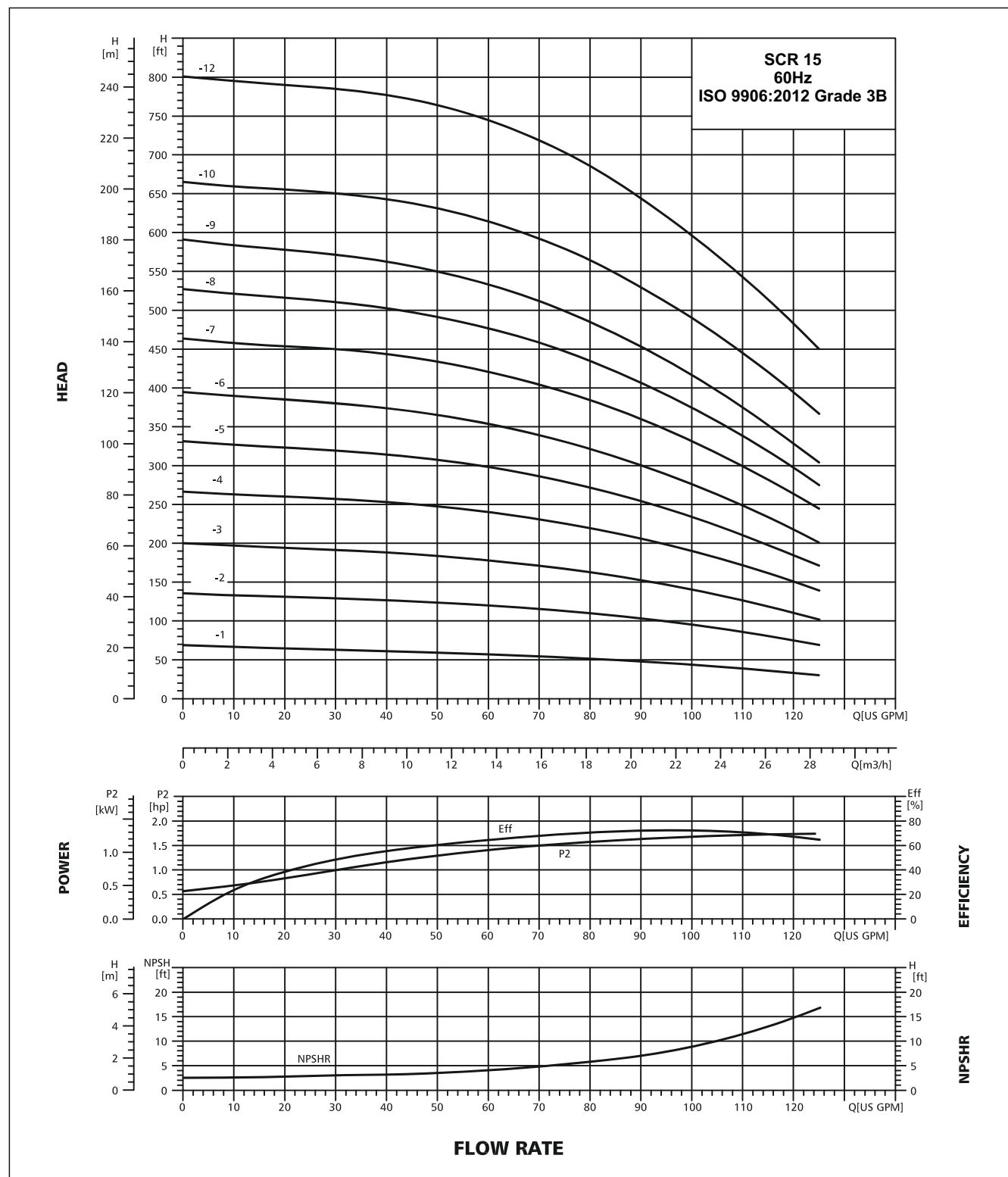
MODEL	STAGE	KW	HP	M3/H US GPM	0	3	5	7	9	11	13	15
					0	13	22	31	40	48	57	66
SCRI,SCRN 10-1	1	0.75	1	HEAD (M)	14	14	14	13	12	11	9	7
SCRI,SCRN 10-2	2	1.5	2		29	29	29	28	26	24	20	15
SCRI,SCRN 10-3	3	2.2	3		44	44	43	42	40	37	32	26
SCRI,SCRN 10-4	4	3	4		68	68	68	67	54	49	43	35
SCRI,SCRN 10-5	5	3	4		74	74	74	73	68	63	54	44
SCRI,SCRN 10-6	6	4	5.5		88	88	88	86	82	74	64	53
SCRI,SCRN 10-7	7	5.5	7.5		103	103	103	100	94	86	74	61
SCRI,SCRN 10-8	8	5.5	7.5		117	117	117	115	110	100	86	92
SCRI,SCRN 10-9	9	5.5	7.5		133	133	133	130	122	111	97	80
SCRI,SCRN 10-10	10	7.5	10		147	147	147	143	135	123	107	88
SCRI,SCRN 10-12	12	7.5	10		176	176	175	170	160	146	126	104
SCRI,SCRN 10-14	14	11	15		205	204	202	196	185	167	145	119
SCRI,SCRN 10-16	16	11	15		245	245	245	228	216	97	172	142
SCRI,SCRN 10-17	17	11	15		249	250	249	242	219	208	181	149

- This performance table is approximate as a performance curve.
- Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PERFORMANCE CURVES

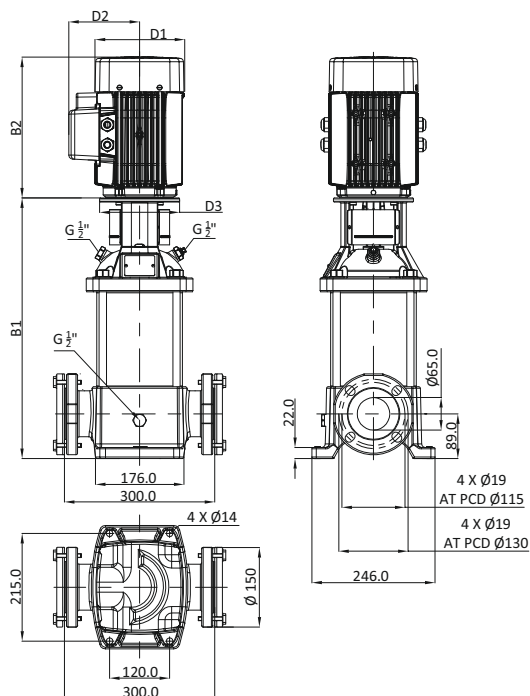
SCR 15



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

MODEL	Size in mm						weight (k.g.)
	B1	B2	B1+B2	D1	D2	D3	
SCR 15 - 1	386	281	667	178	111	NA	49
SCR 15 - 2	430	335	765	198	121	NA	56
SCR 15 - 3	476	394	870	226	191	251	66
SCR 15 - 4	521	414	935	226	191	281	88
SCR 15 - 5	565	414	979	256	191	300	102
SCR 15 - 6	611	505	1116	330	256	350	144
SCR 15 - 7	656	505	1161	330	256	350	145
SCR 15 - 8	700	506	1207	330	256	350	147
SCR 15 - 9	746	559	1305	330	256	350	161
SCR 15 - 10	791	560	1351	330	256	350	163
SCR 15 - 12	881	589	1470	381	281	350	179

PERFORMANCE TABLE

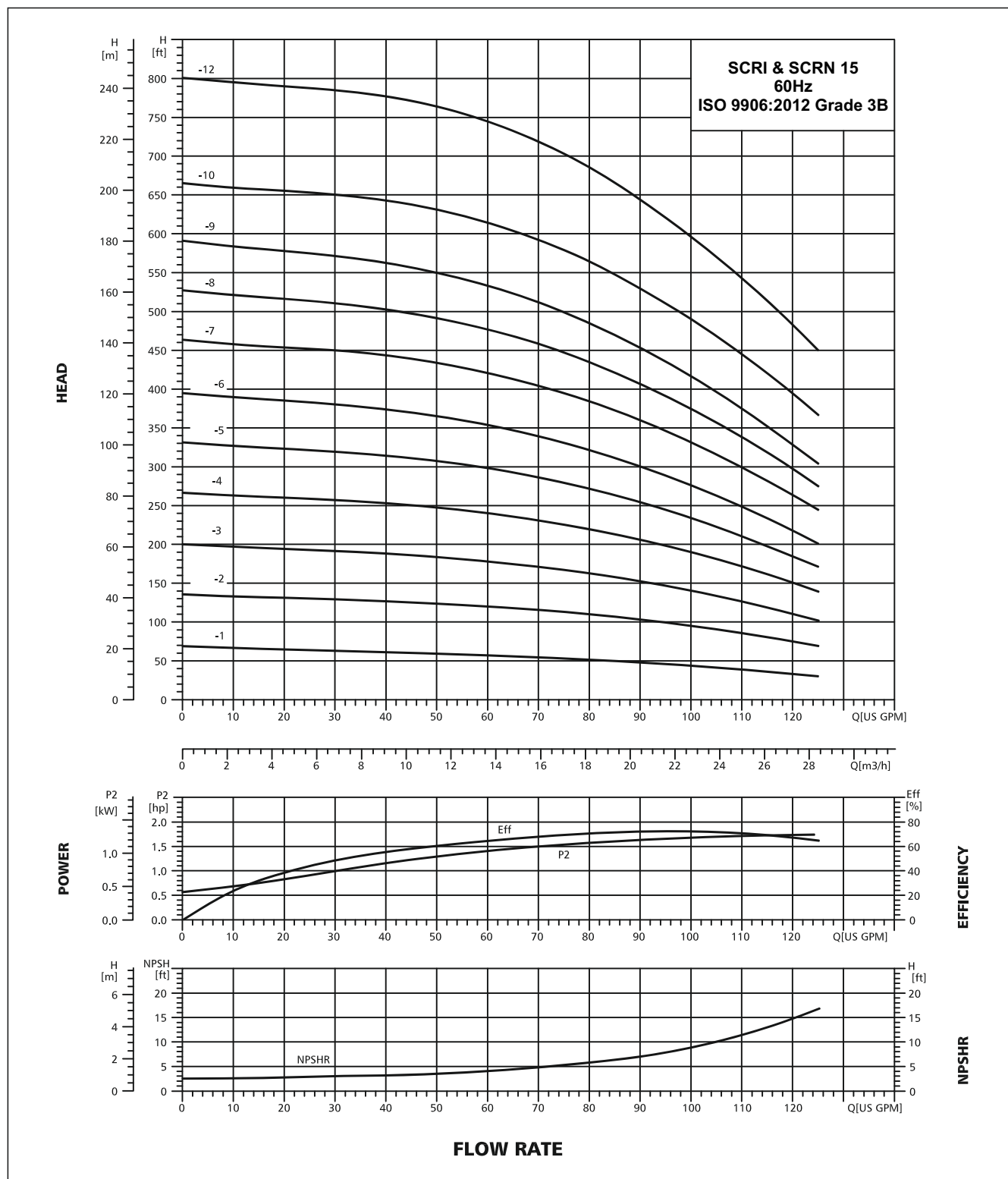
MODEL	STAGE	KW	HP	M3/H US GPM	0	4	8	12	16	20	24	28
					0	18	35	53	70	88	106	123
SCR 15-1	1	1.5	2	HEAD (M)	21	20	19	18	16	15	13	9
SCR 15-2	2	3	4		41	40	39	37	35	32	27	22
SCR 15-3	3	4	5.5		61	59	57	55	52	47	40	32
SCR 15-4	4	5.5	7.5		81	80	77	75	70	64	55	44
SCR 15-5	5	7.5	10		101	199	196	193	86	78	67	53
SCR 15-6	6	11	15		120	117	115	110	103	93	80	63
SCR 15-7	7	11	15		141	139	136	131	123	111	95	76
SCR 15-8	8	11	15		160	157	155	149	140	125	108	86
SCR 15-9	9	15	20		180	176	173	166	155	140	120	95
SCR 15-10	10	15	20		213	200	197	191	180	164	142	115
SCR 15-12	12	18.5	25		244	241	238	232	119	199	172	140

- This performance table is approximate as a performance curve.
- Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PERFORMANCE CURVES

SCRI, SCRN 15

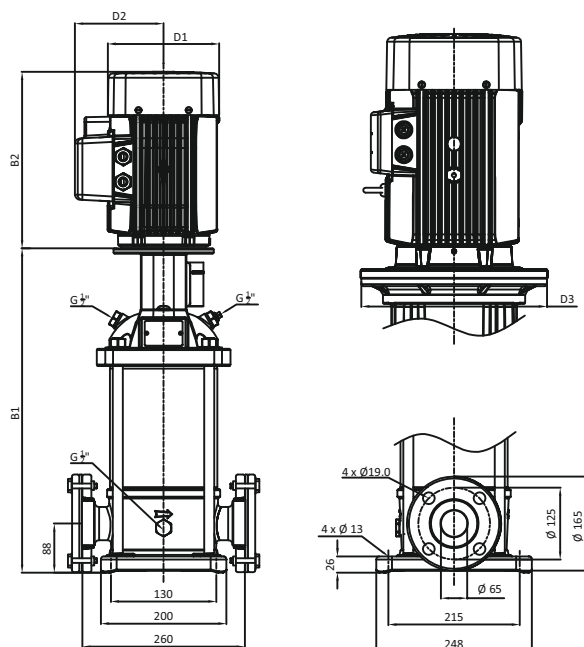


VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE

Dimensions and Weight



MODEL	Size in mm						weight (k.g.)
	B1	B2	B1+B2	D1	D2	D3	
SCRI, SCRN 15 - 1	430	279	710	178	111	NA	46
SCRI, SCRN 15 - 2	475	335	810	198	121	NA	53
SCRI, SCRN 15 - 3	519	395	914	226	191	251	64
SCRI, SCRN 15 - 4	565	413	978	226	191	281	86
SCRI, SCRN 15 - 5	610	414	1024	256	191	300	99
SCRI, SCRN 15 - 6	654	505	1159	330	256	350	141
SCRI, SCRN 15 - 7	700	505	1205	330	256	350	143
SCRI, SCRN 15 - 8	744	505	1249	330	256	350	144
SCRI, SCRN 15 - 9	789	561	1350	330	256	350	158
SCRI, SCRN 15 - 10	835	560	1395	330	256	350	160
SCRI, SCRN 15 - 12	926	589	1515	381	281	350	176

PERFORMANCE TABLE

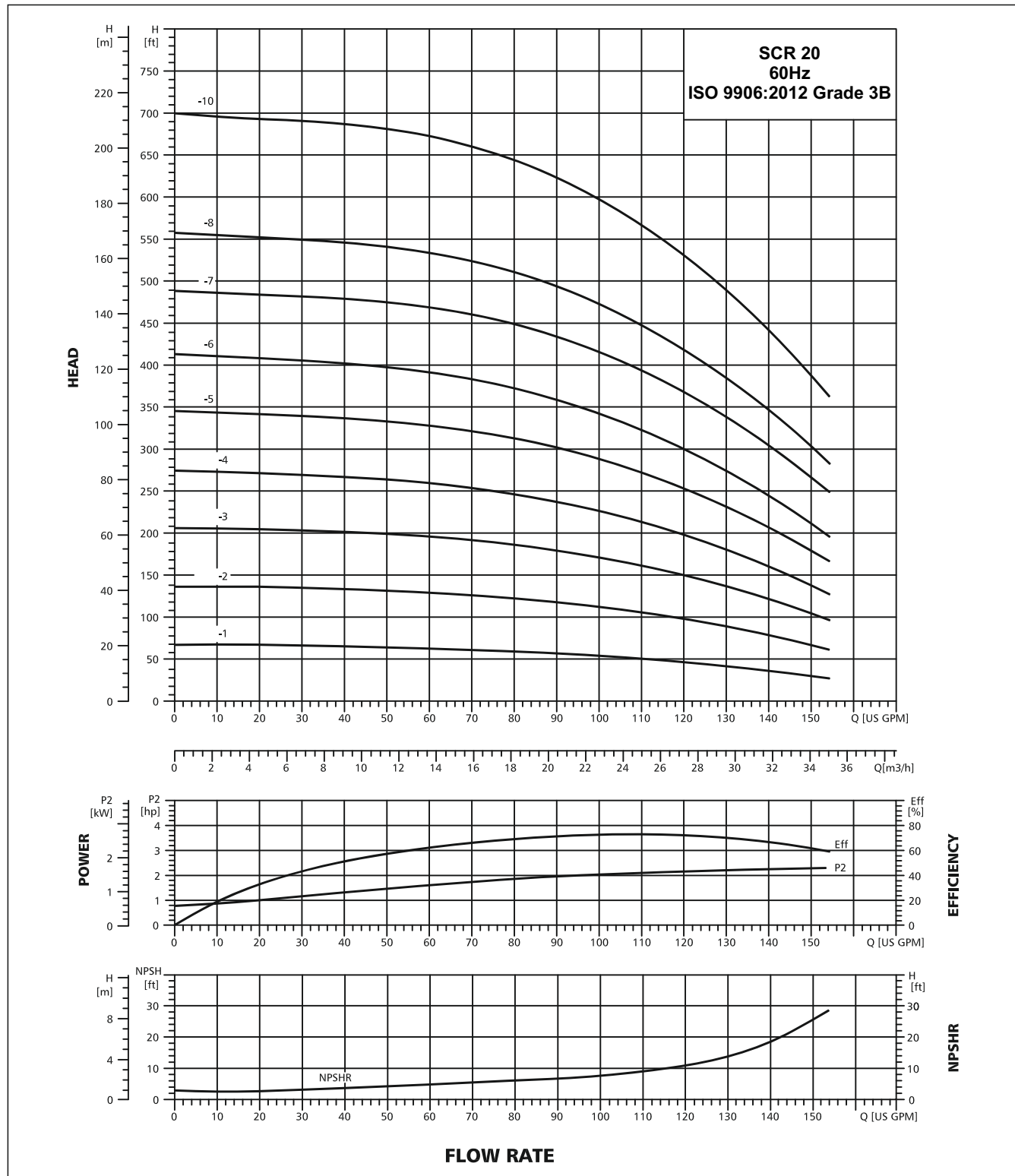
MODEL	STAGE	KW	HP	M3/H US GPM	0	4	8	12	16	20	24	28
					0	18	35	53	70	88	106	123
SCRI,SCRN 15-1	1	1.5	2	HEAD (M)	21	20	19	18	16	15	13	9
SCRI,SCRN 15-2	2	3	4		41	40	39	37	35	32	27	22
SCRI,SCRN 15-3	3	4	5.5		61	59	57	55	52	47	40	32
SCRI,SCRN 15-4	4	5.5	7.5		81	80	77	75	70	64	55	44
SCRI,SCRN 15-5	5	7.5	10		101	199	196	193	86	78	67	53
SCRI,SCRN 15-6	6	11	15		120	117	115	110	103	93	80	63
SCRI,SCRN 15-7	7	11	15		141	139	136	131	123	111	95	76
SCRI,SCRN 15-8	8	11	15		160	157	155	149	140	125	108	86
SCRI,SCRN 15-9	9	15	20		180	176	173	166	155	140	120	95
SCRI,SCRN 15-10	10	15	20		213	200	197	191	180	164	142	115
SCRI,SCRN 15-11	12	18.5	25		244	241	238	232	119	199	172	140

- This performance table is approximate as a performance curve.
- Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PERFORMANCE CURVES

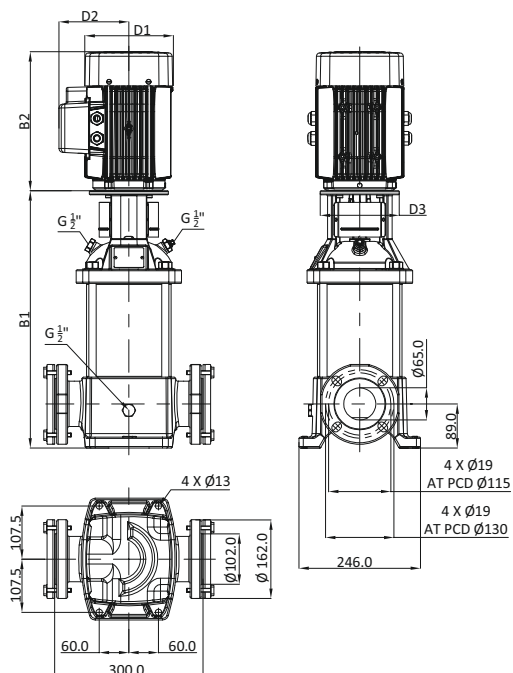
SCR 20



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

MODEL	Size in mm						Weight (k.g.)
	B1	B2	B1+B2	D1	D2	D3	
SCR 20 - 1	487	281	768	178	111	NA	50
SCR 20 - 2	533	394	927	198	191	251	65
SCR 20 - 3	578	414	992	226	191	251	87
SCR 20 - 4	622	414	1037	226	191	300	100
SCR 20 - 5	668	505	1173	330	256	350	142
SCR 20 - 6	713	505	1218	330	256	350	144
SCR 20 - 7	757	561	1318	330	256	350	157
SCR 20 - 8	803	559	1362	330	256	350	159
SCR 20 - 10	892	591	1483	381	281	350	176

PERFORMANCE TABLE

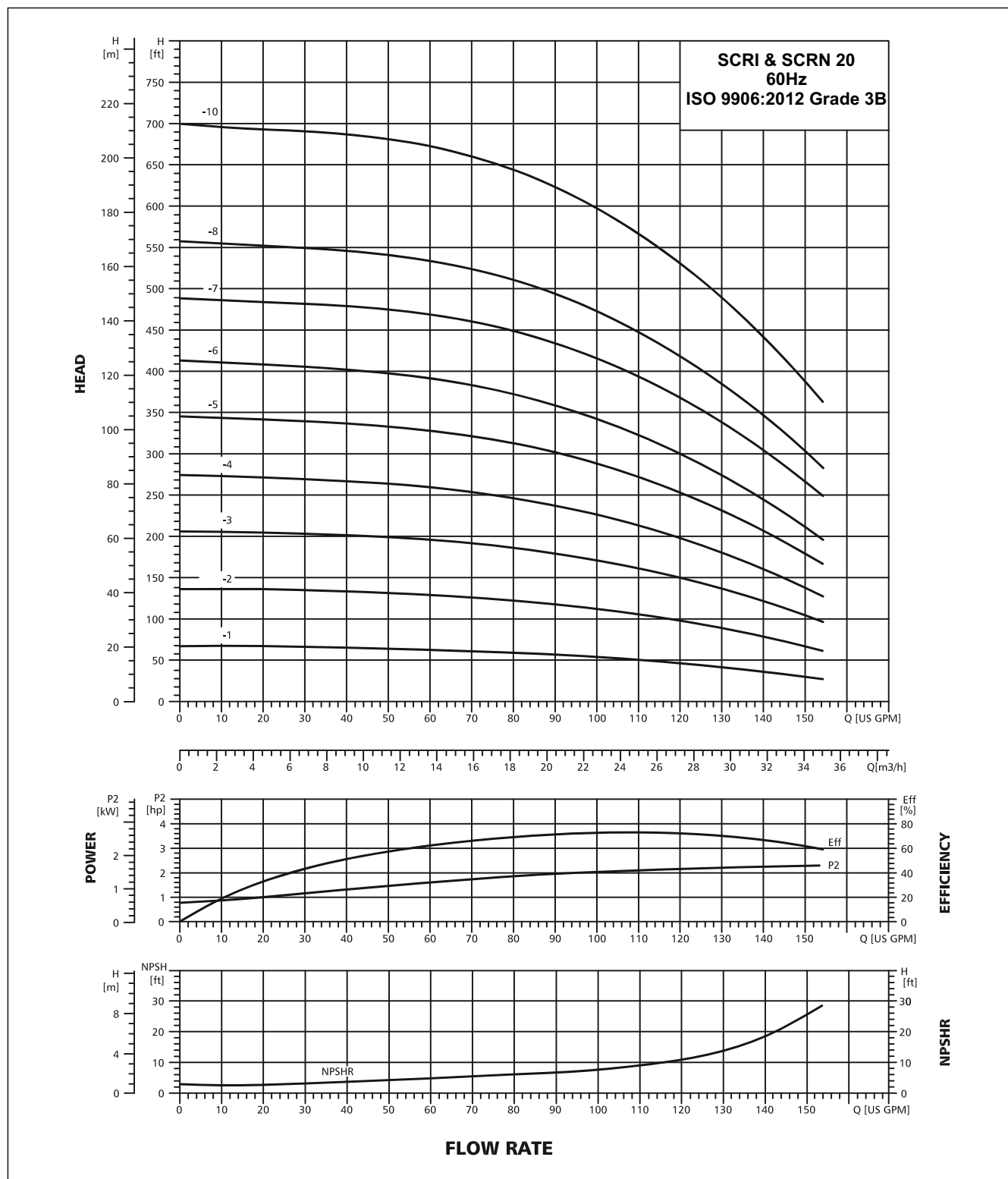
MODEL	STAGE	KW	HP	M3/H US GPM	0	5	10	15	20	25	30	35
					0	22	44	66	88	110	132	154
SCR 20-1	1	2.2	3	HEAD (M)	20	20	19	18	17	15	12	8
SCR 20-2	2	4	5.5		41	41	40	38	36	32	27	18
SCR 20-3	3	5.5	7.5		63	62	61	59	55	48	40	29
SCR 20-4	4	7.5	10		84	83	81	78	72	65	54	39
SCR 20-5	5	11	15		105	104	102	98	92	83	69	50
SCR 20-6	6	11	15		125	124	121	117	110	97	82	60
SCR 20-7	7	15	20		148	147	145	140	132	120	100	75
SCR 20-8	8	15	20		169	167	165	160	151	136	114	86
SCR 20-10	10	18.5	25		213	210	208	202	190	172	146	110

- This performance table is approximate as a performance curve.
- Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PERFORMANCE CURVES

SCRI, SCRN 20

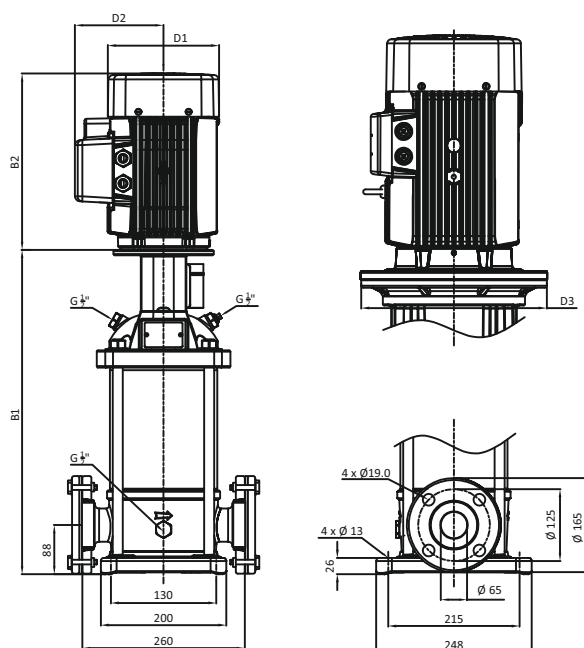


VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE

Dimensions and Weight



MODEL	Size in mm						Weight (k.g.)
	B1	B2	B1+B2	D1	D2	D3	
SCRI, SCRN 20 - 1	490	281	772	178	111	NA	47
SCRI, SCRN 20 - 2	535	395	930	198	191	NA	62
SCRI, SCRN 20 - 3	581	414	995	226	191	300	84
SCRI, SCRN 20 - 4	626	414	1040	226	191	300	98
SCRI, SCRN 20 - 5	672	503	1175	330	256	350	139
SCRI, SCRN 20 - 6	716	505	1221	330	256	350	141
SCRI, SCRN 20 - 7	762	559	1321	330	256	350	155
SCRI, SCRN 20 - 8	806	559	1365	330	256	350	156
SCRI, SCRN 20 - 10	895	591	1486	381	281	350	173

PERFORMANCE TABLE

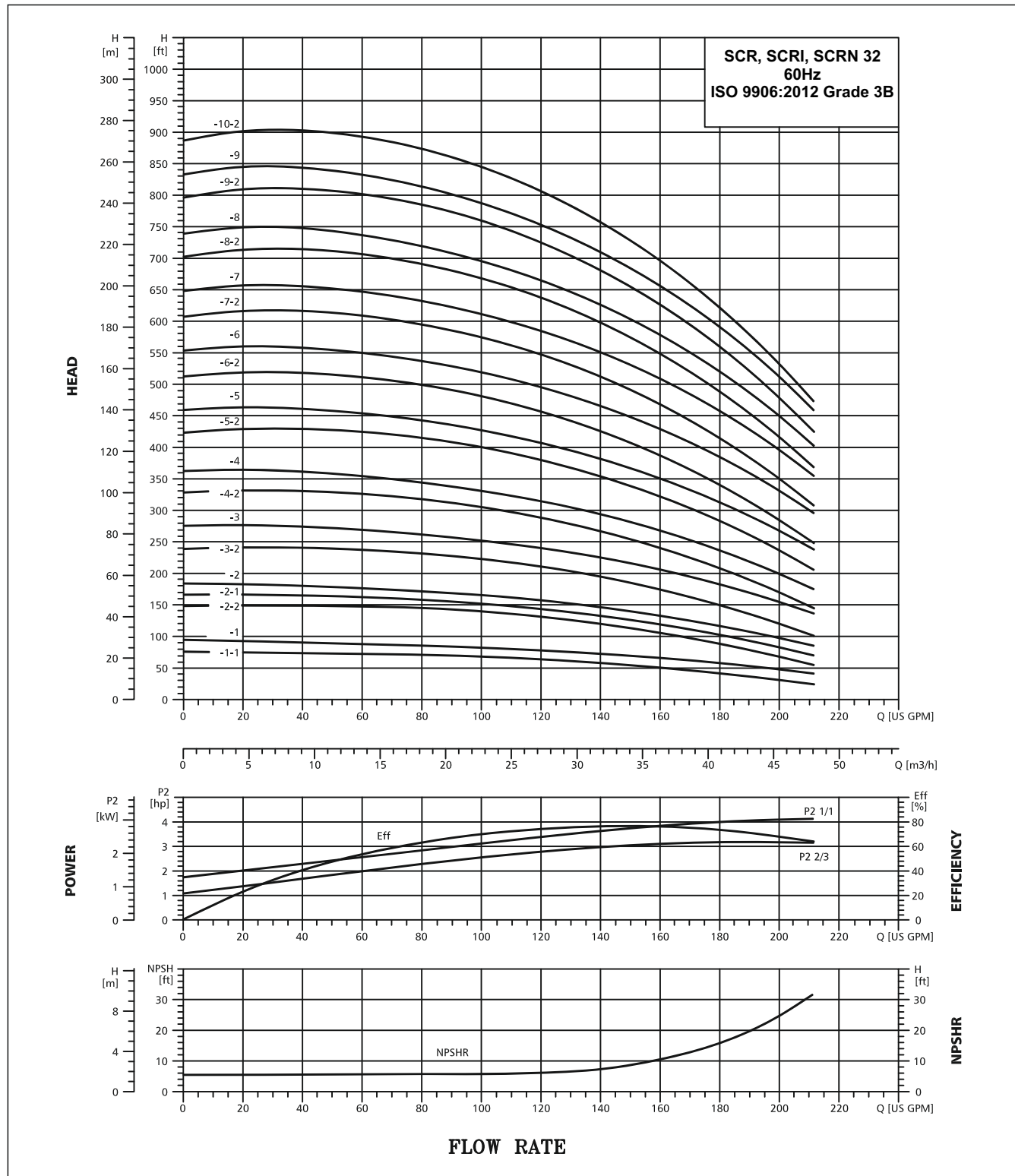
MODEL	STAGE	KW	HP	M3/H	0	5	10	15	20	25	30	35
				US GPM	0	22	44	66	88	110	132	154
SCRI,SCRN 20-1	1	2.2	3	HEAD (M)	20	20	19	18	17	15	12	8
SCRI,SCRN 20-2	2	4	5.5		41	41	40	38	36	32	27	18
SCRI,SCRN 20-3	3	5.5	7.5		63	62	61	59	55	48	40	29
SCRI,SCRN 20-4	4	7.5	10		84	83	81	78	72	65	54	39
SCRI,SCRN 20-5	5	11	15		105	104	102	98	92	83	69	50
SCRI,SCRN 20-6	6	11	15		125	124	121	117	110	97	82	60
SCRI,SCRN 20-7	7	15	20		148	147	145	140	132	120	100	75
SCRI,SCRN 20-8	8	15	20		169	167	165	160	151	136	114	86
SCRI,SCRN 20-10	10	18.5	25		213	210	208	202	190	172	146	110

- This performance table is approximate as a performance curve.
- Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PERFORMANCE CURVES

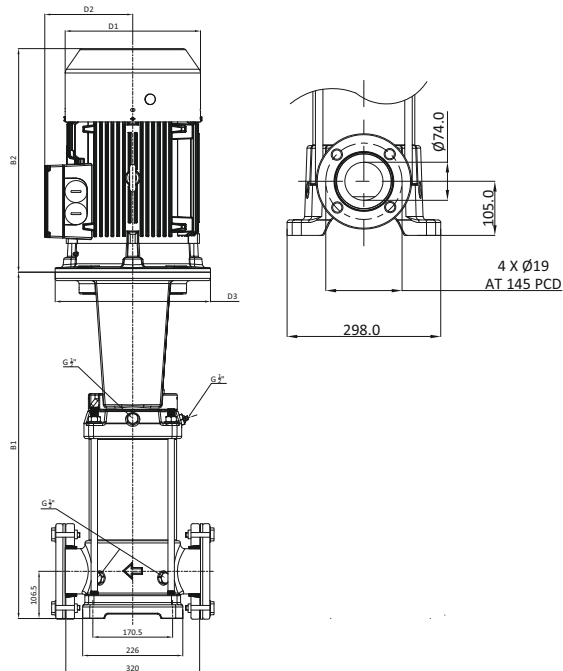
SCR, SCRI,SCRN 32



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

MODEL	Size in mm						Weight (KG)
	B1	B2	B1+B2	D1	D2	D3	
SCR, SCRI, SCRN 32 - 1 - 1	619	281	900	178	111	NA	66
SCR, SCRI, SCRN 32 - 1	619	335	954	198	121	NA	72
SCR, SCRI, SCRN 32 - 2 - 2	689	414	1103	226	191	300	95
SCR, SCRI, SCRN 32 - 2 - 1	689	414	1103	226	191	300	95
SCR, SCRI, SCRN 32 - 2	689	414	1103	226	191	300	107
SCR, SCRI, SCRN 32 - 3 - 2	759	505	1264	330	256	350	154
SCR, SCRI, SCRN 32 - 3	759	505	1264	330	256	350	154
SCR, SCRI, SCRN 32 - 4 - 2	829	505	1334	330	256	350	157
SCR, SCRI, SCRN 32 - 4	829	560	1389	330	256	350	170
SCR, SCRI, SCRN 32 - 5 - 2	899	560	1459	330	256	350	173
SCR, SCRI, SCRN 32 - 5	899	591	1489	381	281	350	186
SCR, SCRI, SCRN 32 - 6 - 2	969	591	1559	381	281	350	189
SCR, SCRI, SCRN 32 - 6	969	591	1559	381	281	350	189
SCR, SCRI, SCRN 32 - 7 - 2	1038	630	1669	381	281	350	206
SCR, SCRI, SCRN 32 - 7	1038	656	1694	381	281	350	206
SCR, SCRI, SCRN 32 - 8 - 2	1108	660	1769	421	305	400	314
SCR, SCRI, SCRN 32 - 8	1108	660	1769	421	305	400	314
SCR, SCRI, SCRN 32 - 9 - 2	1180	659	1838	421	305	400	318
SCR, SCRI, SCRN 32 - 9	1180	659	1838	421	305	400	318
SCR, SCRI, SCRN 32 - 10 - 2	1249	659	1908	421	305	400	321

PERFORMANCE TABLE

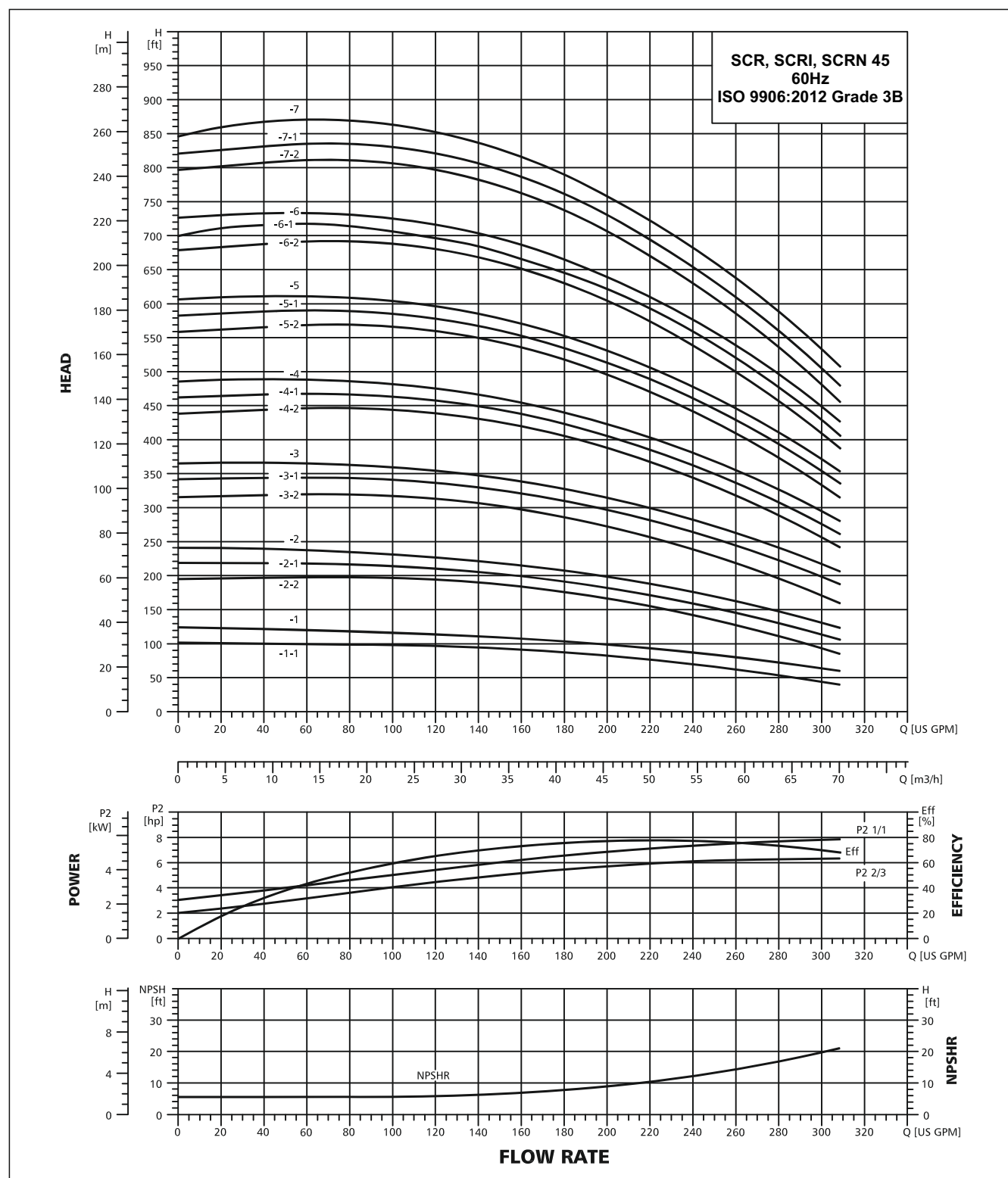
MODEL	KW	HP	M3/H	0	6	12	18	24	30	36	42
			US GPM	0	26	53	79	106	132	158	185
SCR, SCRI, SCRN 32-1-1	2.2	3	HEAD (M)	24	23	22	21	20	18	15	12
SCR, SCRI, SCRN 32-1	3	4		29	28	27	26	24	23	20	16
SCR, SCRI, SCRN 32-2-2	5.5	7.5		45	45	45	44	42	38	33	25
SCR, SCRI, SCRN 32-2-1	5.5	7.5		53	51	49	47	44	42	37	28
SCR, SCRI, SCRN 32-2	7.5	10		56	55	54	52	50	46	40	34
SCR, SCRI, SCRN 32-3-2	11	15		77	78	77	75	67	62	54	43
SCR, SCRI, SCRN 32-3	11	15		84	84	83	80	76	71	63	54
SCR, SCRI, SCRN 32-4-2	11	15		100	101	100	97	92	84	74	60
SCR, SCRI, SCRN 32-4	15	20		110	111	109	105	99	92	82	69
SCR, SCRI, SCRN 32-5-2	15	20		129	131	130	126	120	111	98	83
SCR, SCRI, SCRN 32-5	18.5	25		140	141	139	135	128	120	107	92
SCR, SCRI, SCRN 32-6-2	18.5	25		156	158	157	152	145	134	119	100
SCR, SCRI, SCRN 32-6	18.5	25		169	171	169	164	156	146	132	113
SCR, SCRI, SCRN 32-7-2	22	30		185	187	186	181	173	160	144	122
SCR, SCRI, SCRN 32-7	22	30		197	200	198	193	184	172	156	135
SCR, SCRI, SCRN 32-8-2	30	40		214	217	216	211	201	187	168	144
SCR, SCRI, SCRN 32-8	30	40		225	229	225	220	210	196	176	154
SCR, SCRI, SCRN 32-9-2	30	40		243	246	245	240	229	213	192	165
SCR, SCRI, SCRN 32-9	30	40		254	257	255	248	237	221	201	174
SCR, SCRI, SCRN 32-10-2	30	40		270	275	274	266	254	237	214	183

- This performance table is approximate as a performance curve.
- Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PERFORMANCE CURVES

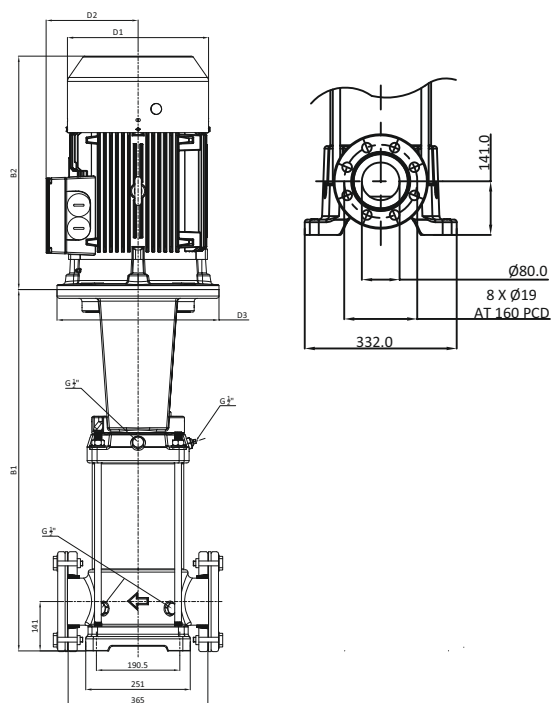
SCR, SCRI, SCRN 45



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

MODEL	Size in mm						Weight (KG)
	B1	B2	B1+B2	D1	D2	D3	
SCR, SCRI, SCRN 45 - 1 - 1	562	414	976	226	191	300	94
SCR, SCRI, SCRN 45 - 1	562	414	976	226	191	300	103
SCR, SCRI, SCRN 45 - 2 - 2	641	505	1146	330	256	350	112
SCR, SCRI, SCRN 45 - 2 - 1	641	505	1146	330	256	350	112
SCR, SCRI, SCRN 45 - 2	641	560	1202	330	256	350	117
SCR, SCRI, SCRN 45 - 3 - 2	722	589	1311	381	281	350	158
SCR, SCRI, SCRN 45 - 3 - 1	722	589	1311	381	281	350	158
SCR, SCRI, SCRN 45 - 3	722	589	1311	381	281	350	158
SCR, SCRI, SCRN 45 - 4 - 2	802	630	1432	381	281	350	196
SCR, SCRI, SCRN 45 - 4 - 1	802	660	1462	421	305	400	196
SCR, SCRI, SCRN 45 - 4	802	660	1462	421	305	400	196
SCR, SCRI, SCRN 45 - 5 - 2	932	610	1542	421	305	400	209
SCR, SCRI, SCRN 45 - 5 - 1	932	610	1542	421	305	400	209
SCR, SCRI, SCRN 45 - 5	932	610	1542	421	305	400	209
SCR, SCRI, SCRN 45 - 6 - 2	962	659	1621	421	305	400	266
SCR, SCRI, SCRN 45 - 6 - 1	962	659	1621	421	305	400	266
SCR, SCRI, SCRN 45 - 6	962	659	1621	421	305	400	266
SCR, SCRI, SCRN 45 - 7 - 2	1041	705	1746	470	335	450	349
SCR, SCRI, SCRN 45 - 7 - 1	1041	705	1746	470	335	450	349
SCR, SCRI, SCRN 45 - 7	1041	705	1746	470	335	450	349

PERFORMANCE TABLE

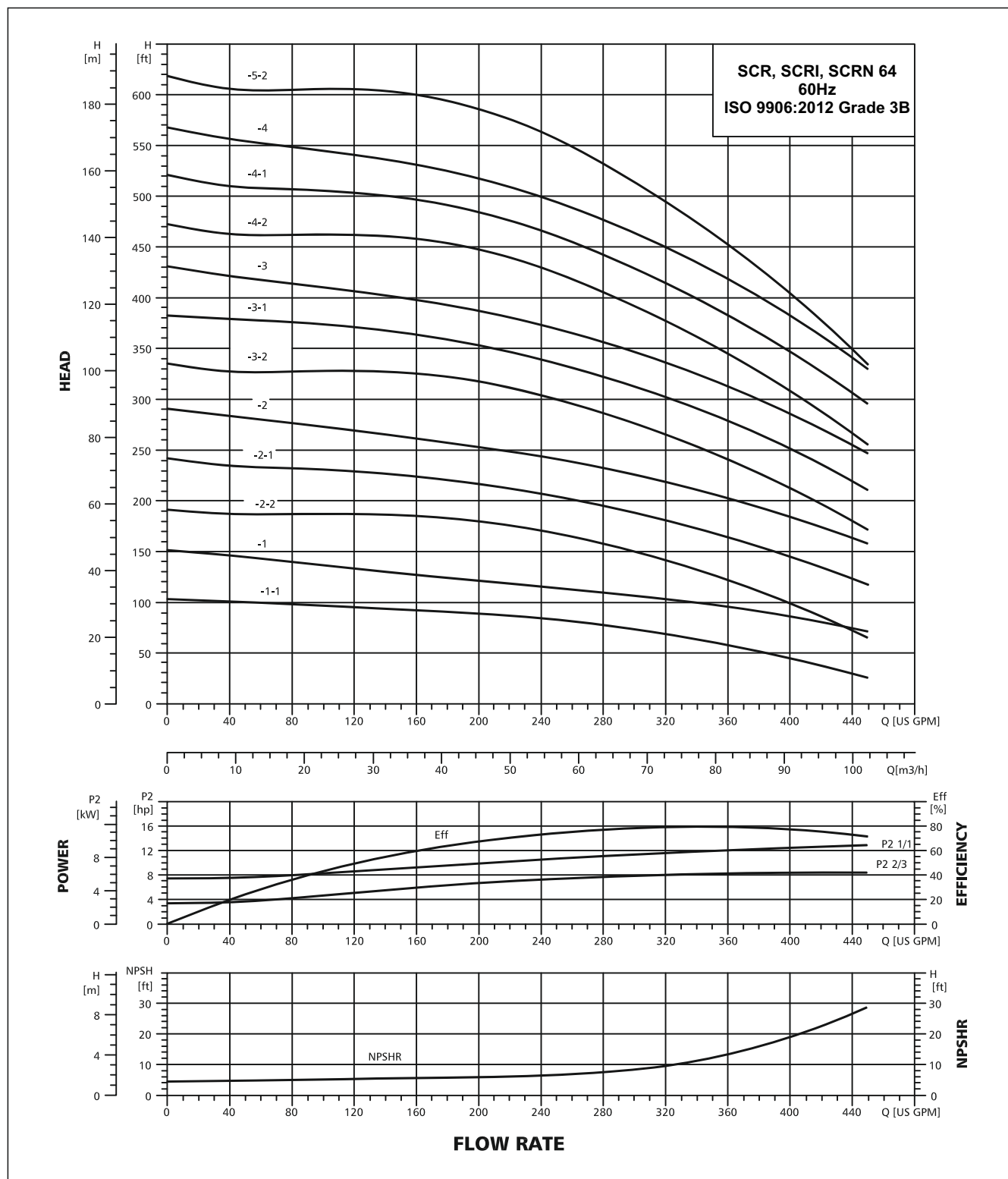
MODEL	KW	HP	M3/H	0	10	20	30	40	50	60	70
			US GPM	0	44	88	132	176	220	264	308
SCR,SRI,SCRN 45-1-1	5.5	7.5	HEAD (M)	31	30	30	28	26	23	18	12
SCR,SRI,SCRN 45-1	7.5	10		38	37	35	34	32	28	24	18
SCR,SRI,SCRN 45-2-2	11	15		59	60	60	56	52	46	37	26
SCR,SRI,SCRN 45-2-1	11	15		66	66	65	63	59	52	43	32
SCR,SRI,SCRN 45-2	15	20		74	73	71	68	64	57	48	37
SCR,SRI,SCRN 45-3-2	18.5	25		96	97	97	94	87	78	65	49
SCR,SRI,SCRN 45-3-1	18.5	25		103	105	104	101	95	86	73	57
SCR,SRI,SCRN 45-3	18.5	25		111	111	110	106	100	91	78	63
SCR,SRI,SCRN 45-4-2	22	30		134	135	136	132	124	112	95	74
SCR,SRI,SCRN 45-4-1	30	40		140	142	141	138	130	117	101	80
SCR,SRI,SCRN 45-4	30	40		147	149	147	143	135	122	107	85
SCR,SRI,SCRN 45-5-2	30	40		170	172	173	168	158	143	122	96
SCR,SRI,SCRN 45-5-1	30	40		178	179	179	174	164	149	128	102
SCR,SRI,SCRN 45-5	30	40		184	186	185	180	170	154	134	108
SCR,SRI,SCRN 45-6-2	37	50		226	229	231	225	193	175	150	118
SCR,SRI,SCRN 45-6-1	37	50		213	218	217	210	197	180	161	124
SCR,SRI,SCRN 45-6	37	50		221	223	222	216	204	186	162	130
SCR,SRI,SCRN 45-7-2	45	60		243	245	246	240	226	204	175	139
SCR,SRI,SCRN 45-7-1	45	60		250	254	255	247	234	211	183	141
SCR,SRI,SCRN 45-7	45	60		257	265	265	256	242	220	191	155

- This performance table is approximate as a performance curve.
- Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PERFORMANCE CURVES

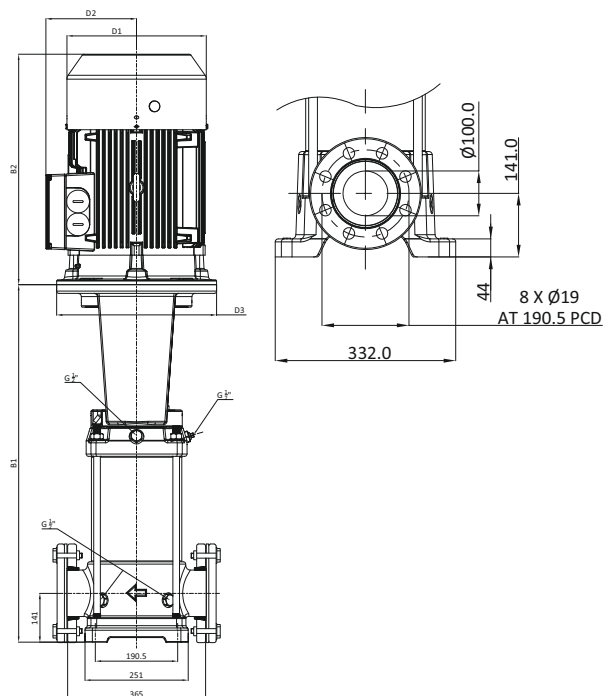
SCR, SCRI, SCRN 64



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

Stage	Size in mm						Weight (k.g.)
	B1	B2	B1+B2	D1	D2	D3	
SCR, SCRI, SCRN 64 -1 - 1	672	414	1086	226	191	300	106
SCR, SCRI, SCRN 64 -1	672	505	1176	330	256	350	160
SCR, SCRI, SCRN 64 -2 - 2	754	560	1314	330	256	350	120
SCR, SCRI, SCRN 64 -2 - 1	754	591	1345	381	281	350	120
SCR, SCRI, SCRN 64 -2	754	630	1384	381	281	350	157
SCR, SCRI, SCRN 64 -3 - 2	838	629	1467	381	281	350	157
SCR, SCRI, SCRN 64 -3 - 1	838	659	1497	421	306	400	194
SCR, SCRI, SCRN 64 -3	838	659	1497	421	306	400	194
SCR, SCRI, SCRN 64 -4 - 2	921	660	1581	421	306	400	208
SCR, SCRI, SCRN 64 -4 - 1	921	660	1581	421	306	400	208
SCR, SCRI, SCRN 64 -4	921	705	1626	470	335	450	261
SCR, SCRI, SCRN 64 -5 - 2	1003	705	1708	470	335	450	261

PERFORMANCE TABLE

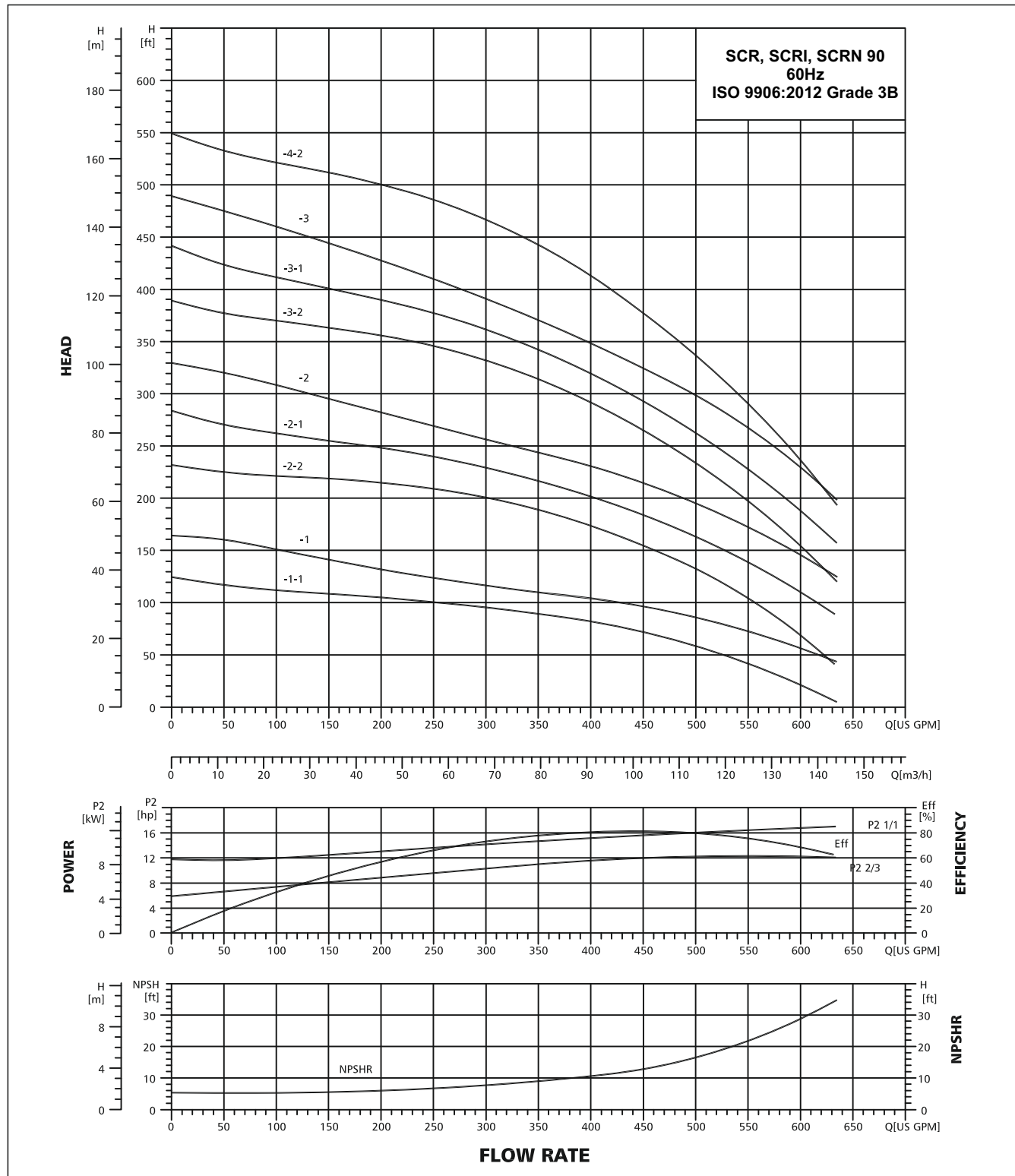
MODEL	KW	HP	M3/H US GPM	0	10	25	40	55	70	85	100
				0	44	110	176	242	308	374	440
SCR,SCRI,SCRN 64-1-1	7.5	10	HEAD (M)	32	31	29	27	25	22	16	9
SCR,SCRI,SCRN 64-1	11	15		46	44	41	37	35	32	28	23
SCR,SCRI,SCRN 64-2-2	15	20		58	57	57	55	52	45	35	22
SCR,SCRI,SCRN 64-2-1	18.5	25		74	71	70	67	63	56	48	37
SCR,SCRI,SCRN 64-2	22	30		88	86	83	78	74	67	60	50
SCR,SCRI,SCRN 64-3-2	22	30		103	100	100	98	93	83	70	55
SCR,SCRI,SCRN 64-3-1	30	40		116	115	114	110	103	94	82	66
SCR,SCRI,SCRN 64-3	30	40		132	128	124	120	113	104	92	77
SCR,SCRI,SCRN 64-4-2	37	50		144	140	140	138	131	117	101	81
SCR,SCRI,SCRN 64-4-1	37	50		158	155	154	150	142	129	113	93
SCR,SCRI,SCRN 64-4	45	60		173	169	165	160	152	140	124	104
SCR,SCRI,SCRN 64-5-2	45	60		188	185	185	181	172	154	133	106

- This performance table is approximate as a performance curve.
- Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PERFORMANCE CURVES

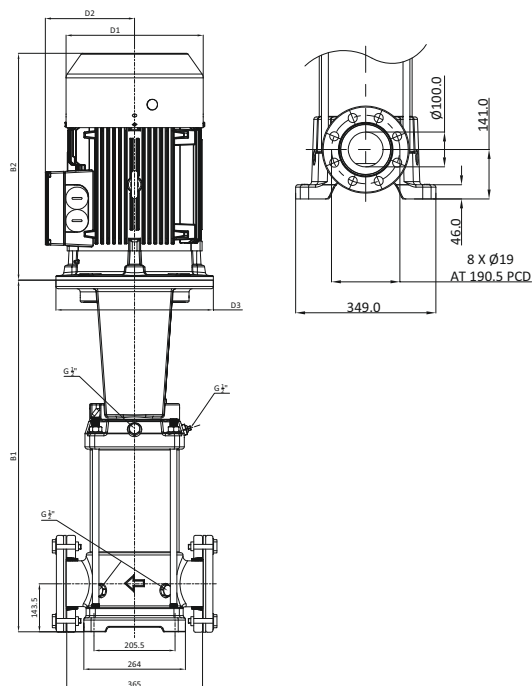
SCR, SCRI, SCRN 90



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

Stage	Size in mm						Weight (k.g.)
	B1	B2	B1+B2	D1	D2	D3	
SCR, SCRI, SCRN 90 -1 - 1	576	505	1081	330	256	350	106
SCR, SCRI, SCRN 90-1	576	505	1081	330	256	350	160
SCR, SCRI, SCRN 90-2 -2	665	560	1226	330	256	350	120
SCR, SCRI, SCRN 90 -2 - 1	665	591	1256	381	281	350	120
SCR, SCRI, SCRN 90 -2	665	660	1326	421	306	400	157
SCR, SCRI, SCRN 90 -3 - 2	756	660	1416	421	306	400	157
SCR, SCRI, SCRN 90-3 - 1	756	660	1416	421	306	400	194
SCR, SCRI, SCRN 90 -3	756	705	1461	470	337	450	194
SCR, SCRI, SCRN 90 -4 - 2	846	705	1551	470	337	450	208

PERFORMANCE TABLE

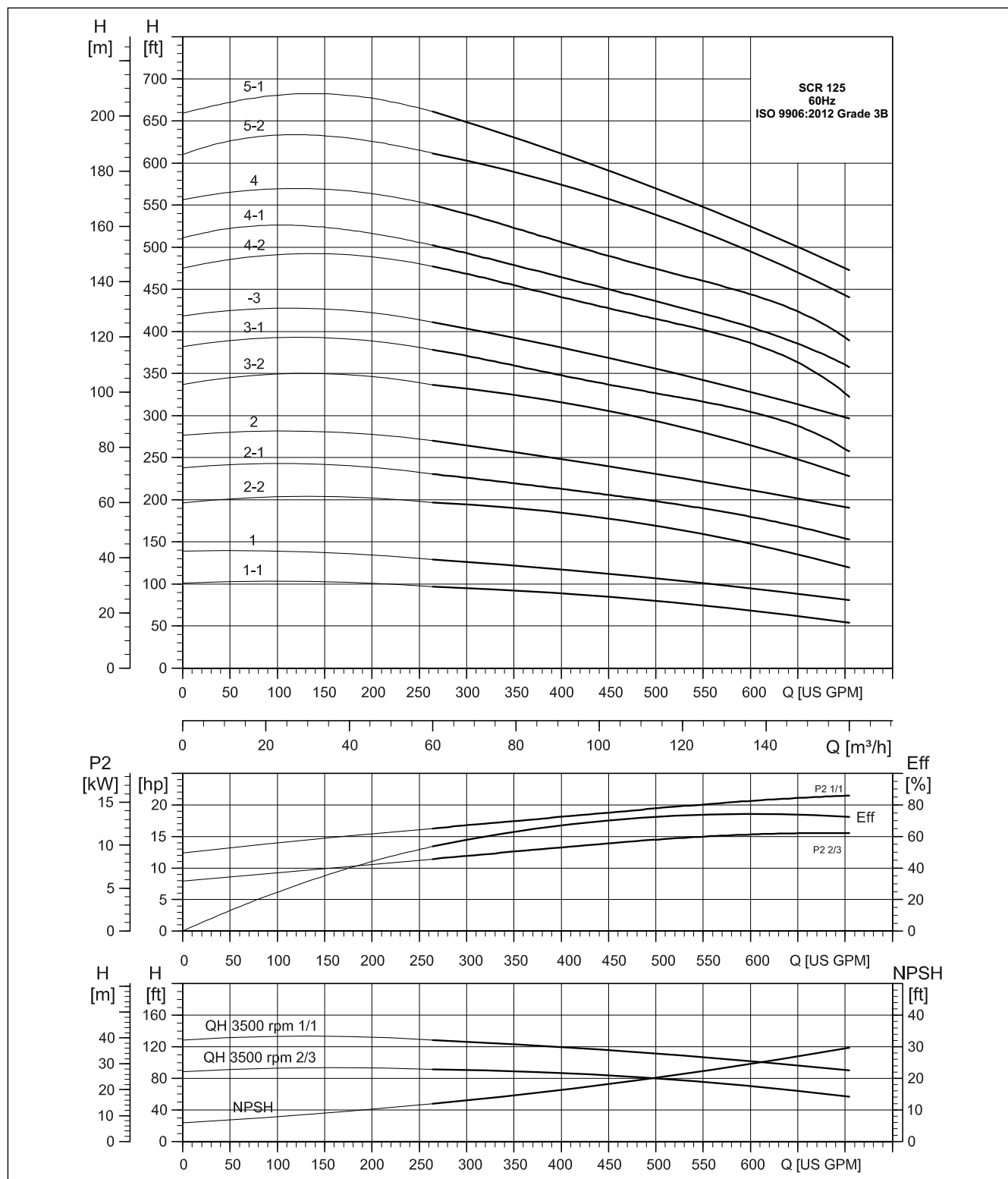
MODEL	KW	HP	M3/H	0	20	40	60	80	100	120	140
			US GPM	0	88	176	264	352	440	528	616
SCR,SCRI,SCRN 90-1-1	7.5	15	HEAD (M)	38	34	32	30	27	23	15	4
SCR,SCRI,SCRN 90-1	11	20		50	47	42	37	33	29	24	15
SCR,SCRI,SCRN 90-2-2	15	18.5		71	68	66	63	57	48	36	17
SCR,SCRI,SCRN 90-2-1	18.5	22		86	80	76	72	66	57	46	30
SCR,SCRI,SCRN 90-2	22	30		100	95	87	81	74	66	56	42
SCR,SCRI,SCRN 90-3-2	22	37		118	114	109	104	96	82	65	42
SCR,SCRI,SCRN 90-3-1	30	37		135	126	120	114	104	91	74	53
SCR,SCRI,SCRN 90-3	30	45		159	142	133	123	112	100	86	66
SCR,SCRI,SCRN 90-4-2	37	45		167	160	154	147	135	117	95	66

- This performance table is approximate as a performance curve.
- Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PERFORMANCE CURVES

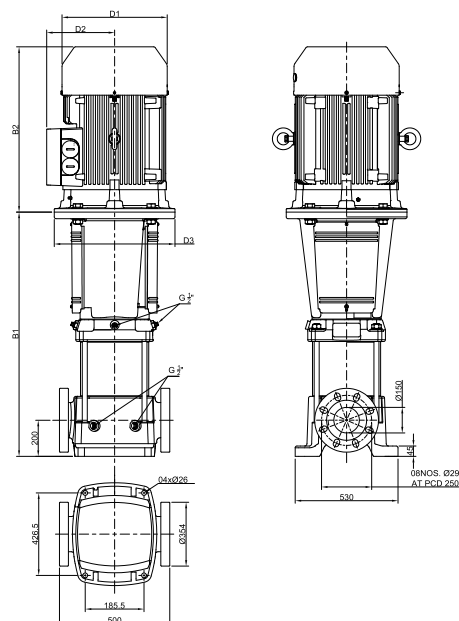
SCR 125



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

MODEL	size in mm						WEIGHT (K.G)
	B1	B2	B1+B2	D1	D2	D3	
SCR 125-1-1	834	471	1305	314	203	350	196
SCR 125-1	834	569	1403	314	203	350	192
SCR 125-2-2	990	589	1579	314	333	400	320
SCR 125-2-1	990	589	1579	389	333	400	320
SCR 125-2	990	706	1696	429	359	400	334
SCR 125-3-2	1145	782	1927	483	378	450	425
SCR 125-3-1	1145	782	1927	483	378	450	425
SCR 125-3	1145	782	1927	483	378	550	474
SCR 125-4-2	1313	782	2095	483	378	550	544
SCR 125-4-1	1313	783	2096	483	441	550	666
SCR 125-4	1313	783	2096	483	441	550	666
SCR 125-5-2	1468	783	2251	483	441	550	676
SCR 125-5-1	1468	783	2251	483	441	550	541

PERFORMANCE TABLE

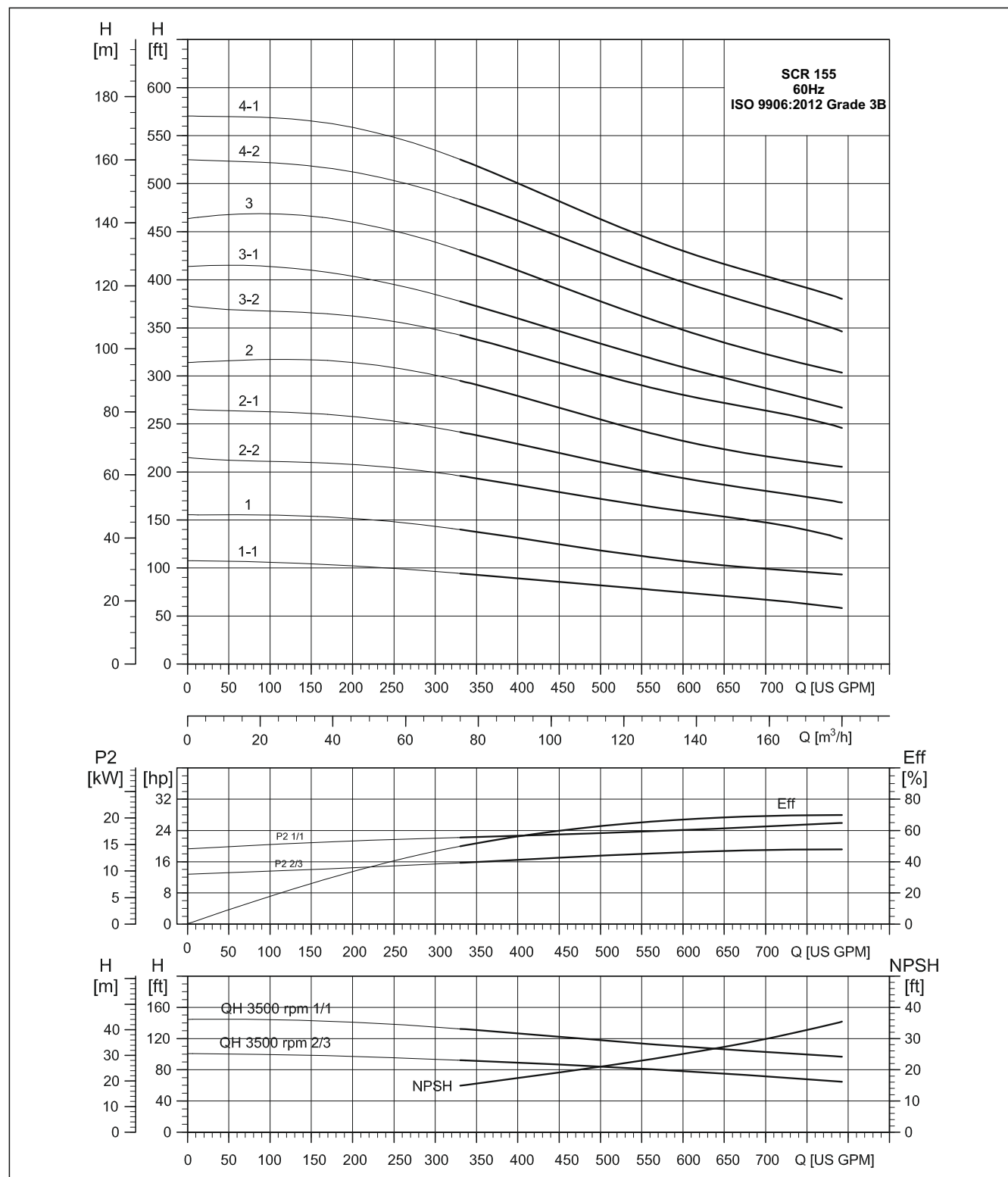
Model	KW	HP	m3/hr	0	30	50	70	90	110	130	150
			US GPM	0	132	220	308	396	484	572	660
SCR 125-1-1	15	20	HEAD (M)	32	31	30	29	27	26	23	21
SCR 125-1	18.5	25		43	42	40	38	36	33	30	27
SCR 125-2-2	30	40		63	62	61	58	55	52	47	42
SCR 125-2-1	30	40		75	73	72	67	65	61	56	50
SCR 125-2	37	50		86	84	83	80	76	72	67	62
SCR 125-3-2	45	60		107	105	104	101	98	91	84	76
SCR 125-3-1	45	60		120	119	117	113	76	101	95	86
SCR 125-3	55	75		129	127	126	120	117	106	99	90
SCR 125-4-2	55	75		149	146	145	142	130	130	122	111
SCR 125-4-1	75	100		161	156	155	152	137	137	127	115
SCR 125-4	75	100		174	171	169	165	143	143	140	130
SCR 125-5-2	75	100		194	191	186	183	166	166	157	143
SCR 125-5-1	90	120		207	203	201	197	177	177	168	153

- This performance table is approximate as a performance curve.
- Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PERFORMANCE CURVES

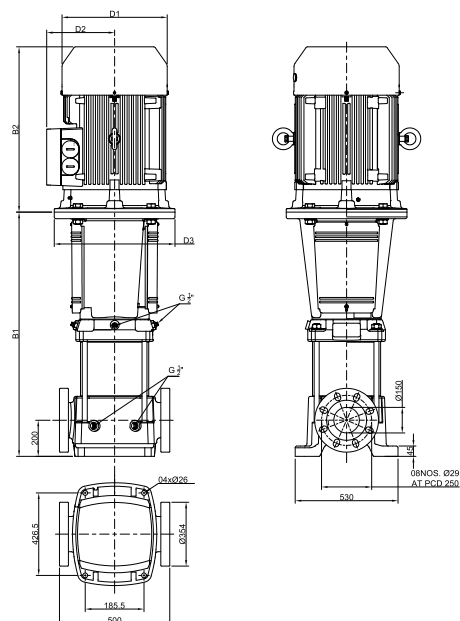
SCR 155



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TECHNICAL DATA

DIMENSIONAL, SKETCH & PERFORMANCE



Dimensions and Weight

MODEL	size in mm						WEIGHT (K.G)
	B1	B2	B1+B2	D1	D2	D3	
SCR 155-1-1	834	569	1403	314	203	350	192
SCR 155-1	834	569	1403	314	203	350	222
SCR 155-2-2	990	589	1579	389	333	400	320
SCR 155-2-1	990	706	1696	429	359	400	334
SCR 155-2	990	782	1772	483	378	450	415
SCR 155-3-2	1157	782	1939	483	378	550	535
SCR 155-3-1	1157	783	1940	483	378	550	535
SCR 155-3	1157	783	1940	483	441	550	552
SCR 155-4-2	1313	783	2096	483	441	550	560
SCR 155-4-1	1313	783	2096	483	441	550	560

PERFORMANCE TABLE

Model	KW	HP	m3/hr	0	50	70	90	110	130	150	170
			US GPM	0	220	308	396	484	572	660	748
SCR 155-1-1	18.5	25	HEAD (M.)	33	31	29	27	26	25	23	19
SCR 155-1	22	30		48	45	43	41	37	34	33	29
SCR 155-2-2	30	40		67	65	61	58	55	53	51	44
SCR 155-2-1	37	50		82	78	75	71	65	61	60	52
SCR 155-2	45	60		95	94	91	86	78	74	72	66
SCR 155-3-2	55	75		115	110	106	102	93	87	84	77
SCR 155-3-1	55	75		141	138	133	125	117	108	106	95
SCR 155-3	75	100		142	140	133	127	117	108	104	95
SCR 155-4-2	75	100		162	157	150	143	134	126	118	113
SCR 155-4-1	75	100		174	169	162	152	145	134	130	120

- This performance table is approximate as a performance curve.
- Subject to technical change without notice.

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PUMPED FLUIDS

PRESSURE BOOSTING PUMP

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.

For different pumped liquids, pump available with a range of mechanical seal, Ref. mechanical seal catalog (SAP Code - 2900000844)

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

SHAFT SEAL

The variant code of mechanical shaft seals is indicated the last position of the type designation, the stamping code consists of four letters.

Example	A	U	U	E
Shakti type designation (1)				
Material of rotating face (2)				
Material of stationary seat (3)				
Material of secondary seal (4)				

Position 1 codes

Position 1 of the mechanical shaft seal variant code shows the Shakti type designation as under

The following codes can be shown in position 1:

Code	Description
A	O-ring seal with fixed seal driver
B	Bellows seal, rubber
C	O-ring seal with spring as seal driver
D	O-ring seal, balanced
E	O-ring seal, type A, cartridge
F	Bellows seal, type B, cartridge
G	Bellows seal, type B, with reduced seal faces
H	O-ring seal, type D, cartridge
K	Bellows seal, metal, type M, cartridge
M	Bellows seal, metal
O	Double seal, back-to-back
P	Double seal, tandem
Q	Seal with flush, quench seal
R	O-ring seal, type A, with reduced seal faces
S	Stuffing box
T	Floating gap seal
X	Miscellaneous

Positions 2 and 3 codes

Positions 2 and 3 of the mechanical shaft seal variant code show materials of rotating face and stationary seat.

The following codes can be shown in positions 2 and 3:

Code	Material	
A	Synthetic carbon	Carbon, metal-impregnated
B		Carbon, resin-impregnated
H (B/U)		Carbon with embedded tungsten carbide (hybrid)
C		Other carbons
D	Metals	Steel
N		Bronze
S		Cast chromium steel
U	grained silicon carbide (SiC)	Tungsten carbide, chromium-nickelmolybdenum-bonded
Q		Q1S: Dense, sintered, fine-grained silicon carbide (SiC)
		Q1P: Porous, sintered, fine-grained silicon carbide (SiC)
		Q1G: Graphite-containing, sintered silicon carbide (SiC)
V	Metal oxides	Ceramic (aluminium oxide)

Position 4 codes

Position 4 of the mechanical shaft seal variant code shows the secondary seal material.

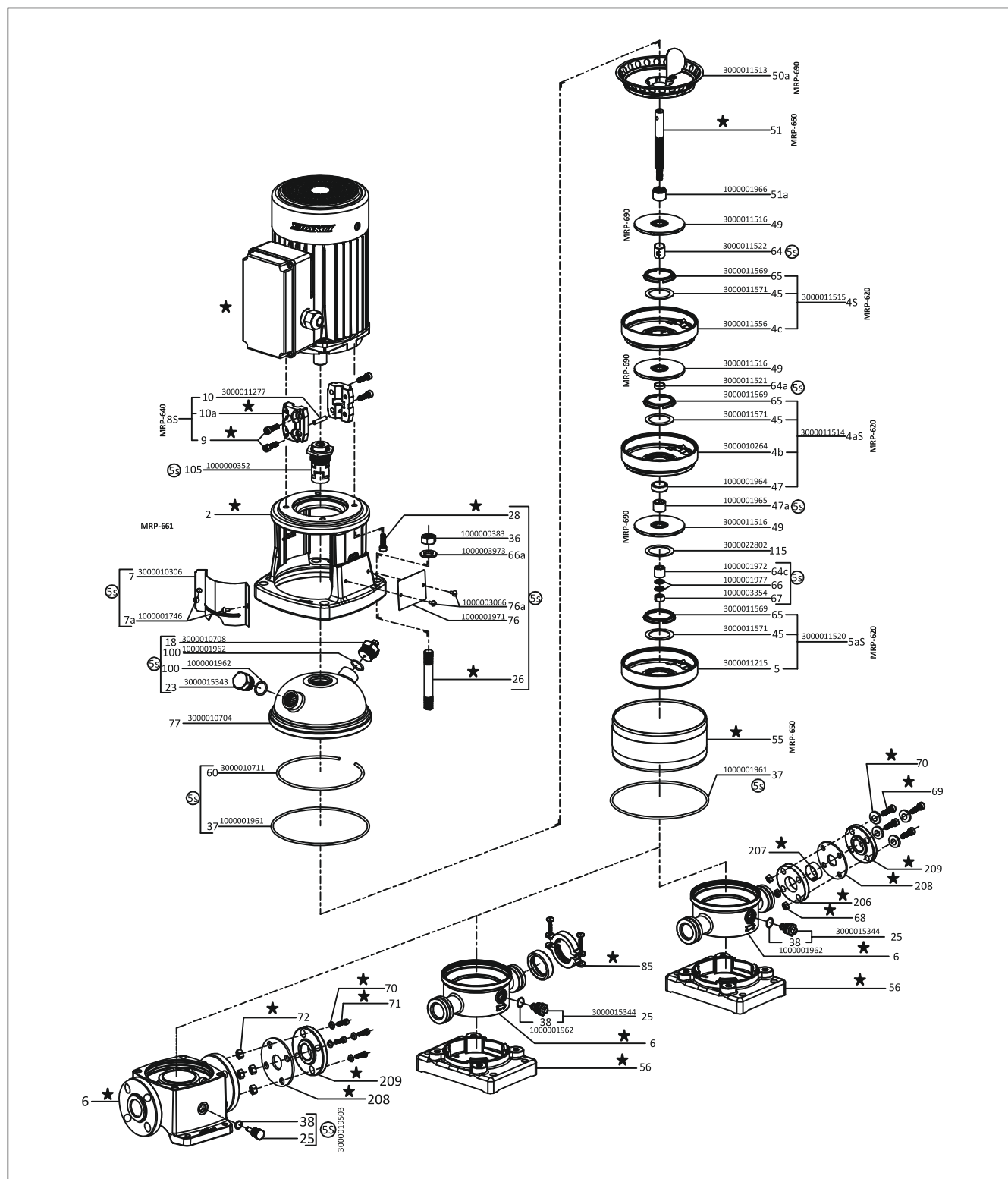
The following codes can be shown in position 4:

Code	Material
E	EPDM Temp. resistance -40°C to +140°C
F	FXM (Fluoraz®)
V	FKM (Viton®) Temp. resistance -20°C to +200°C
K	FFKM (Kalrez®)
M	PTFE-sheathed O-ring
P	NBR (nitrile rubber)
S	Q (silicon rubber)
T	PTFE (Teflon®) Temp. resistance -100°C to +280°C
X	Other elastomers

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

EXPLODED VIEW

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



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PART LIST

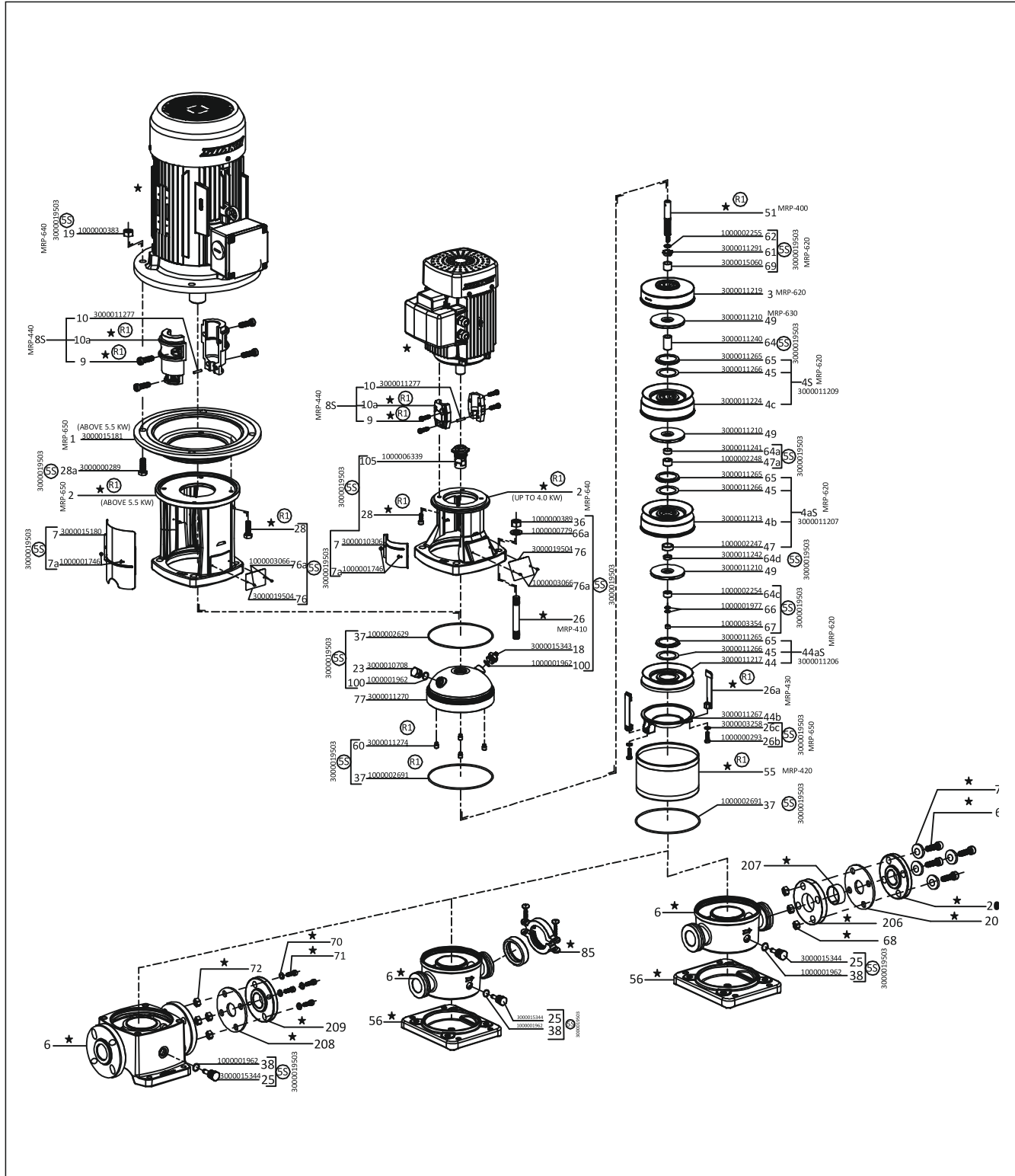
POS NO.	DESCRIPTION
4aS	MIDDLE CHAMBER ASSEMBLY
	4b DIFFUSER CUP (MIDDLE)
	45 NECKRING
	47 RADIAL BUSH
	65 NECK RING RETAINER
4S	TOP CHAMBER ASSEMBLY
	4C DIFFUSER CUP (INTER)
	45 NECKRING
	65 NECK RING RETAINER
5aS	BOTTOM CHAMBER ASSEMBLY
	5 DIFFUSER CUP (BOTTOM)
	45 NECKRING
	65 NECK RING RETAINER
8S	COUPLING ASSEMBLY
	9 COUPLING BOLT
	10a COUPLING
	10 SHAFT PIN
2	PUMP HEAD
6	PUMP BASE
56	PUMP BASE PLATE
7a	COUPLING GUARD SCREW
7	COUPLING GUARD
18	AIR VENT ASSEMBLY
100	O-RING
23	FILLING SCREW
25	DRAIN PLUG ASSEMBLY
38	O-RING
26	STAY BOLT
36	STAY BOLT NUT M12
66a	STAY BOLT WASHER
28	BOLT
37	O-RING

47a	RADIAL SLEEVE
49	IMPELLER
50a	DIFFUSER ASSEMBLY (PUMP HEAD)
51a	SHAFT CLAMP BUSH
51	PUMP SHAFT
64c	SPLINED CLAMP
66	LOCK WASHER
67	LOCK NUT M8
55	OUTER SLEEVE
60	CORRUGATED SPRING
64a	SPACING PIPE (4.5mm)
64	SPACING PIPE (17.5mm)
76a	NAME PLATE SCREW
76	NAME PLATE
77	PUMP HEAD COVER
105	SHAFT SEAL
68	HEX-NUT M12
69	H.H. BOLT(M12X55)
70	NUT M12
206	DIN FLANGE MC 32 NB
207	COLLATE
208	DELIVERY FLANGE GASKET
209	DIN 32 FLANGE
71	H.H. BOLT(M12X55)
72	HEX-NUT M12
85	VICTAULIC COUPLING

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

EXPLODED VIEW

SCR, SCRI, SCRN 10, 15, 20



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PART LIST

POS NO.	DESCRIPTION
1	PUMP HEAD BASE (5.5 kW ABOVE)
2	PUMP HEAD
3	TOP CHAMBER
4aS	MIDDLE CHAMBER ASSEMBLY
	4b CHAMBER WITH VANE
	45 NECKRING
	47 RADIAL BUSH
	65 NECK RING RETAINER
4S	TOP CHAMBER ASSEMBLY
	4C CHAMBER WITH VANE
	45 NECKRING
	65 NECK RING RETAINER
44aS	BOTTOM CHAMBER ASSEMBLY
	44 BOTTOM CHAMBER
	45 NECKRING
	65 NECK RING RETAINER
8S	COUPLING ASSEMBLY
	9 COUPLING BOLT
	10a COUPLING
	10 SHAFT PIN
6	PUMP BASE
56	PUMP BASE PLATE
7a	COUPLING GUARD SCREW
7	COUPLING GUARD
18	AIR VENT ASSEMBLY
100	O-RING
19	NUT
23	FILLING SCREW
25	DRAIN PLUG ASSEMBLY
38	O-RING
26c	CLAMPING STRIP WASHER
26b	CLAMPING STRIP BOLT
26a	CLAMPING STRIP
26	STAY BOLT
36	STAY BOLT NUT M16
66a	STAY BOLT WASHER
28	BOLT
37	O-RING
47b	INLET CHAMBER STACK
47a	RADIAL SLEEVE
49	IMPELLER

POS NO.	DESCRIPTION
51	PUMP SHAFT
61	SEAL DRIVER
62	STOP RING
64c	SPLINED CLAMP
66	LOCK WASHER
67	LOCK NUT M8
55	OUTER SLEEVE
60	RUBBER PAD
64d	SPACING PIPE (7.4mm)
64a	SPACING PIPE (10.0mm)
64	SPACING PIPE (31.4mm)
69	SPACING PIPE (20.5mm)
76a	NAME PLATE SCREW
76	NAME PLATE
77	PUMP HEAD COVER
105	SHAFT SEAL
68	HEX-NUT M12
69	H.H. BOLT(M12X55)
70	NUT M12
206	DIN FLANGE MC 32 NB
207	COLLATE
208	DELIVERY FLANGE GASKET
209	DIN 32 FLANGE
71	H.H. BOLT(M12X55)
72	HEX-NUT M12
85	VICTAULIC COUPLING

SCR, SCRI, SCRN 32, 45, 64, 90



VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PART LIST

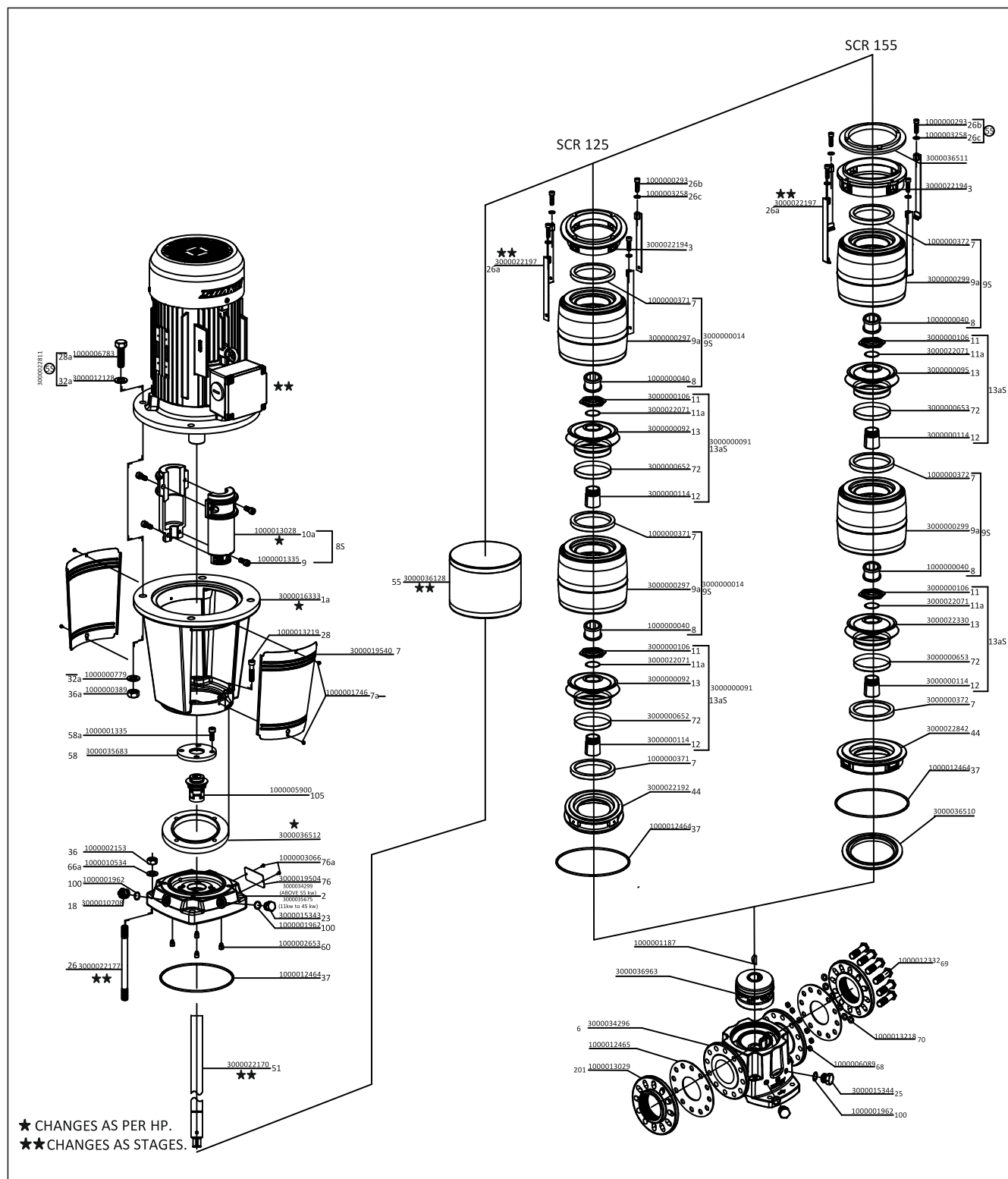
POS NO.	DESCRIPTION
1a	MOTOR STOOL
2	PUMP HEAD
3S	TOP CHAMBER ASSEMBLY
	3a TOP CHAMBER
	47c CHAMBER BUSH
4aS	MIDDLE CHAMBER ASSEMBLY
	4b CHAMBER WITH VANE
	47 BEARING RING
	45a NECKRING CUP
	45 NECKRING
	65 NECK RING RETAINER
4S	INTER CHAMBER ASSEMBLY
	4b CHAMBER WITH VANE
	47c CHAMBER BUSH
	45a NECKRING CUP
	45 NECKRING
	65 NECK RING RETAINER
44S	INLET PART ASSEMBLY
	44a INLET PART
	45a NECKRING CUP
	45 NECKRING
	65 NECKRING RETAINER
49eS	IMPELLER COMPLETE
	49 IMPELLER
	49c IMPELLER WEARING RING
	48 SPLIT CONE NUT
	49b SPLIT CONE SLEEVE
8S	COUPLING ASSEMBLY
	9 COUPLING BOLT
	10a COUPLING
6	PUMP BASE
6g	BEARING RING
32	PUMP BASE WASHER
32a	WASHER
56	PUMP BASE PLATE
7a	COUPLING GUARD SCREW
7	COUPLING GUARD
9	COUPLING BOLT
10a	COUPLING
18	AIR VENT ASSEMBLY
100	O-RING

POS NO.	DESCRIPTION
23	FILLING SCREW
25	DRAIN PLUG ASSEMBLY
38	O-RING
26c	CLAMPING STRIP WASHER
26b	CLAMPING STRIP BOLT
26a	CLAMPING STRIP
26	STAY BOLT
36	STAY BOLT NUT M16
66a	STAY BOLT WASHER
28a	BOLT
28	BOLT
31	ALLEN BOLT M6
36a	NUT M16
37	O-RING
47e	DRIVER CUP
47a	DRIVER
51	PUMP SHAFT
47b	PUMP BASE BUSH
66	IC RING
66b	LOCK WASHER
67	LOCK NUT M8
55	OUTER SLEEVE
58a	ALLEN BOLT M10
58	SEAL CARRIER
60	RUBBER PAD
76a	NAME PLATE SCREW
76	NAME PLATE
105	SHAFT SEAL
68	HEX-NUT M12
69	H.H. BOLT(M12X55)
70	NUT M12
206	DIN FLANGE MC NB
207	COLLATE
208	DELIVERY FLANGE GASKET
209	DIN FLANGE
71	H.H. BOLT(M12X55)
72	HEX-NUT M12
85	VICTAULIC COUPLING

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

EXPLODED VIEW

SCR 125 & 155



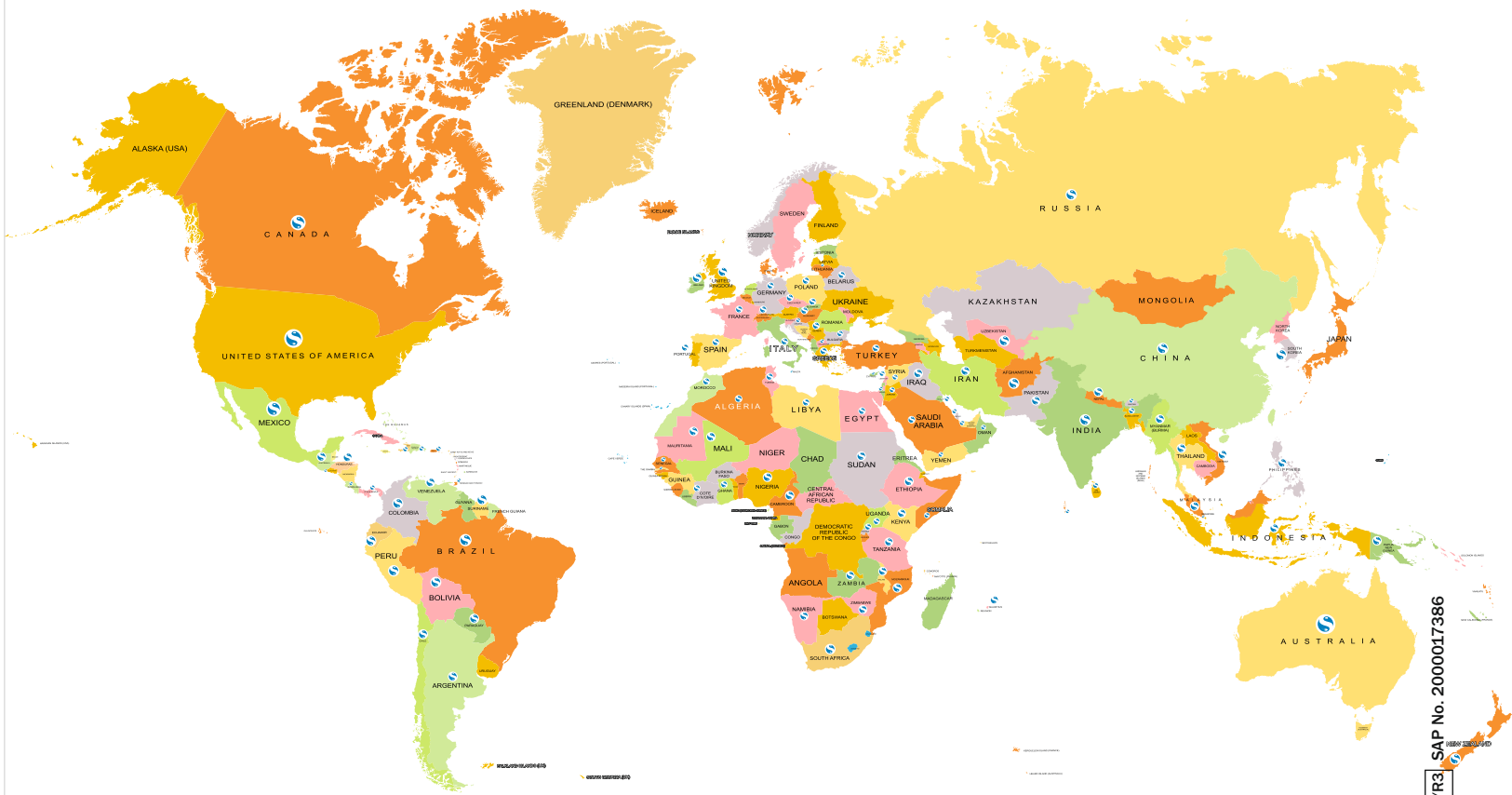
VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

PART LIST

POS NO.	DESCRIPTION
1a	MOTOR STOOL
2	PUMP HEAD
3	DISCHARGE PART
6	PUMP BASE
7a	COUPLING GUARD SCREW
7	COUPLING GUARD
8S	COUPLING ASSEMBLY
	9 COUPLING BOLT
	10a COUPLING
9S	BOWL ASSEMBLY
	9a BOWL ASSEMBLY
	4 NECKRING
	6 BOWL BUSH
13aS	IMPELLER COMPLETE
	13 IMPELLER
	72 WEARING RING
	12 COLLETE
	11a COLLETE WASHER
	11 COLLETE NUT
18	AIR VENT ASSEMBLY
100	O-RING
23	FILLING SCREW
100	O-RING
25	DRAIN PLUG ASSEMBLY
100	O-RING
26c	CLAMPING STRIP WASHER
26b	CLAMPING STRIP BOLT
26a	CLAMPING STRIP
26	STAY BOLT
36	STAY BOLT NUT M16
66a	STAY BOLT WASHER
36a	NUT M16
28a	BOLT
28	BOLT
32a	WASHER
37	O-RING
44	INLET PART
51	PUMP SHAFT
55	OUTER SLEEVE
56c	ALLEN BOLT M12x70
56b	BOTTOM BASE PLATE

POS NO.	DESCRIPTION
56	BASE PLATE
58a	ALLEN BOLT M10
58	SEAL CARRIER
60	RUBBER PAD
76a	NAME PLATE SCREW
76	NAME PLATE
105	SHAFT SEAL
69	H.H. BOLT(M12X55)
70	NUT M12
206	DIN FLANGE MC
207	COLLATE
208	DELIVERY FLANGE GASKET
201	DIN FLANGE MC
209	DIN FLANGE
71	H.H. BOLT(M12X55)
85	VICTAULIC COUPLING

OUR PRESENCE



Aug./2024-25/L3/100 VC - 700071 SAP No. 2000017386



SHAKTI PUMPS (INDIA) LIMITED

Plot No. 401, 402, & 413, Industrial Area, Sector - 3, Pithampur, Dist. Dhar - 454774 (M.P.) India
Fax: +91-7292 410645, E-mail: info@shaktipumps.com, Visit us at : www.shaktipumps.com