

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

SCR, SCRI, SCRN (50 HZ BOOKLET)



SHAKTI

THE POWER OF INNOVATION, EFFICIENCY & TECHNOLOGY.



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PRODUCT DATA

1. PRODUCT 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 195 m ³ /h
Head "H"	Max 330 m
Liquid Temperature	-40 °C to +180 °C*

* For high temperature pumps please refer page no 53

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 and SCRN pumps are available in various material versions according to the pumped liquid.

MINIMUM EFFICIENCY INDEX (MEI)

EuP ready

The SCR, SCRI, SCRN pumps are energy-optimised and comply with the EuP Directive (Commission Regulation (EC) No 547/2012) which has been effective since 1 January 2013. As from this date, all pumps will be classified/graduated in a new energy

minimum efficiency index (MEI).

Minimum efficiency index Minimum efficiency index (MEI) means the dimension less scale unit for hydraulic pump efficiency at best efficiency point (BEP), part load (PL) and overload (OL). The Commission Regulation (EU) sets efficiency requirements to MEI 0.10 as from 1 January 2013 and MEI 0.40 as from 1 January 2015. An indicative benchmark for best-performing water pump available on the market as from 1 January 2013 is determined in the Regulation.

. The benchmark for most efficient water pumps is MEI 0.70.

. The efficiency of a pump with a trimmed impeller is usually lower than that of a pump with the full impeller diameter. The trimming of the impeller will adapt the pump to a fixed duty point, leading to reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter.

. The operation of this water pump with variable duty points may be more efficient and economic when controlled, for example, by the use of a variable-speed drive that matches the pump duty to the system.

. Information on benchmark efficiency is available at <http://europump.eu/efficiencycharts>

Pump type	MEI
SCR 1s-3	0.54
SCR 1-3 >	0.70
SCR 3-3 >	0.70
SCR 5-3	0.57
SCR 10-3 >	0.70
SCR 15-3 >	0.70
SCR 20-3 >	0.70
SCR 32-3 >	0.70
SCR 45-3 >	0.70
SCR 64-3 >	0.70
SCR 90-3 >	0.70

Minimum efficiency index (MEI)

PRODUCT DATA

2. APPLICATIONS

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 system	◆	
<u>Liquid Transfer In-</u>		
Cooling & air-conditioning	◆	◇
Boiler feed & condensate system	◆	◇
Machine Tool (Cooling Lubrication)	◆	◆
Aqua farming	◆	◇
<u>Transfer Of-</u>		
Oils & alcohols	◆	◆
Acids & alkalis		◆
Glycol & coolants	◆	
WATER TREATMENT		
Ultra-filtration system		◆
Reverse osmosis system		◆
Softening, Ionising, Demineralising		◆
Distillation system		◆
Separators	◆	◆
Swimming baths		◆
IRRIGATION		
Field irrigation	◆	◇
Sprinkler irrigation	◆	◇
Drip-feed irrigation	◆	◇

◆ Recommended version

◇ Alternative version

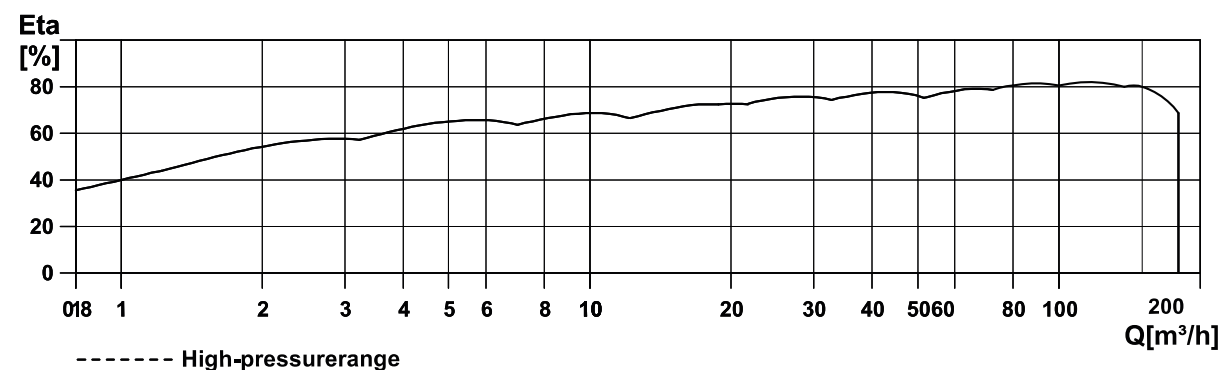
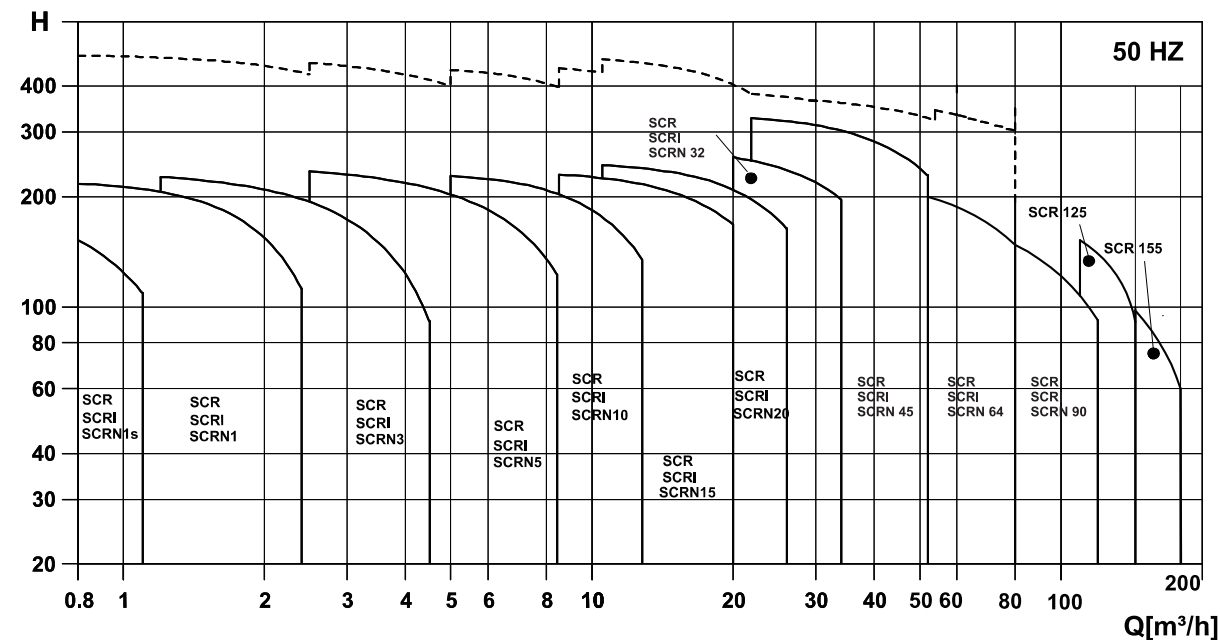
PRODUCT RANGE

3. PRODUCT RANGE & PERFORMANCE RANGE

RANGE	SCR 1s	SCR 1	SCR 3	SCR 5	SCR 10	SCR 15	SCR 20	SCR 32	SCR 45	SCR 64	SCR 90	SCR 125	SCR 155
Rated flow rate [m³/h]	0.8	1	3	5	10	15	20	32	45	64	90	125	155
Temperature range (°C)	-20 °C to +120 °C						-30 °C to +120 °C				-20 °C to +120 °C		
Temperature range (°C) (On Request)	-40 °C to +180 °C												
Maximum pump efficiency [%]	35	48	58	62	70	72	74	68	79	80	81	82	82
Flow rate [m³/h]	0.3-1.1	0.7-2.4	1.2-4.5	2.5-8.5	5-13	9-24	11-29	15-40	22-58	30-85	45-120	60-160	75-200
Maximum pressure [bar]	21	22	24	24	22	23	25	28	33	22	20	39	40
High Pressure (On request)	-	47	41	47	44	47	48	50	49	41	37	NA	NA
Motor Power	0.37-1.1	0.37-2.2	0.37-3.0	0.37-5.5	0.37-7.5	1.1-15	1.1-18.5	1.5-30	3-45	4-45	5.5-45	11-55	11-55
Version													
SCR : Cast iron & Stainless Steel SS 304	●	●	●	●	●	●	●	●	●	●	●	●	●
SCRI : Stainless steel SS 304	●	●	●	●	●	●	●	○	○	○	○	-	-
SCRN : Stainless steel SS 316	●	●	●	●	●	●	●	●	●	●	●	-	-
Pipe work connection													
Flange	DN 25	DN 25	DN 25	DN 25	DN 40	DN 50	DN 50	DN 65	DN 80	DN 100	DN 100	DN 150	DN 150
Flange (on request)	-	-	-	-	DN 50	-	-	DN 80	DN 100	DN 125	DN 125	NA	NA
PJE coupling (Victaulic)	1 1/4"	1 1/4"	1 1/4"	1 1/4"	2"	2"	2"	3" ²⁾	4" ³⁾	4" ³⁾	4" ³⁾	6"	6"
	DN 32	DN 32	DN 32	DN 32	DN 50	DN 50	DN 50	DN 80	DN 100	DN 100	DN 100	-	-

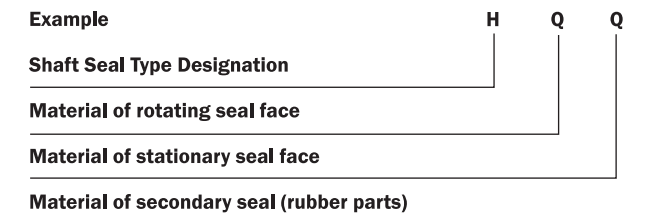
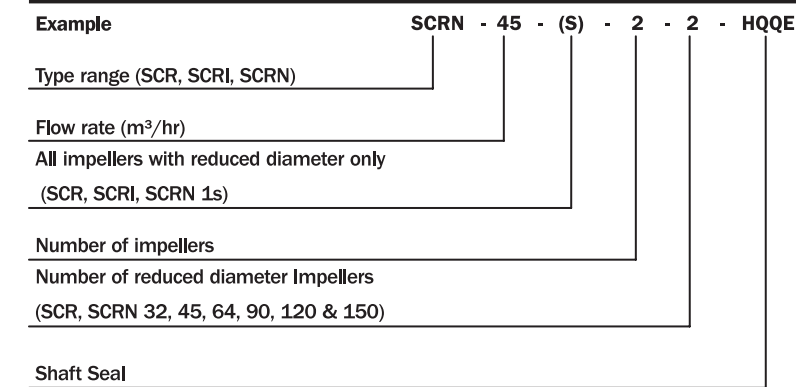
- Standard
- Available

3.1 PERFORMANCE RANGE OF SCR, SCRI, SCR N



TYPE KEYS & CONSTRUCTION

4. PRODUCT IDENTIFICATION



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	Carbon, meta-impregnated
B	Carbon, resin-impregnated
H (B/U)	Synthetic carbon
H	Carbon with embedded tungsten carbide (hybrid)
C	Other carbons
D	Steel
N	Metals
S	Bronze
S	Cast chromium steel
U	Tungsten carbide, chromium-nickel-molybdenum-bonded
U	Q1S: Dense, sintered, fine-grained silicon carbide (SiC)
Q	Carbides
Q	Q1P: Porous, sintered, fine-grained silicon carbide (SiC)
Q	Q1G: Graphite-containing, sintered silicon carbide (SiC)
V	Metal oxides
V	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
F	FXM
V	FKM
K	FFKM
M	PTFE-sheathed O-ring
P	NBR (nitrile rubber)
S	Q (silicon rubber)
T	PTFE (Teflon®)
X	Other elastomers

Shaft seal description Max. Temp. Range [°C]	
1) HQQE O - ring (Cartridge)(balanced seal), SiC/SiC, EPDM	[-40 °C to 120 °C]
2) HBQE O - ring (Cartridge)(balanced seal), Carbon/SiC, EPDM	[0 °C to 120 °C]
3) HQQV O - ring (Cartridge)(balanced seal), SiC/SiC, FKM	[-20 °C to 90 °C]
4) HUUV O - ring (Cartridge)(balanced seal), Cemented tungsten carbide /CTC, FKM	[0 °C to 90 °C]

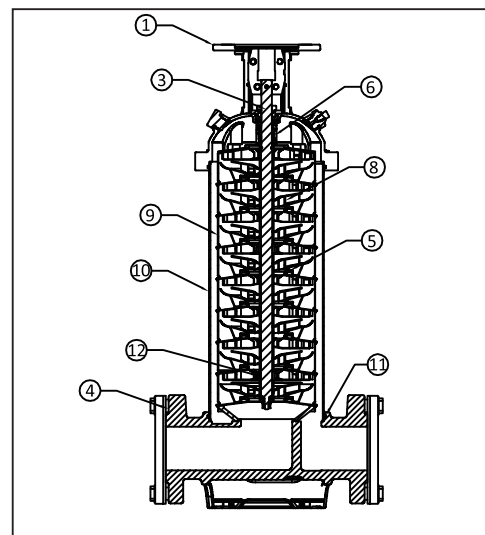
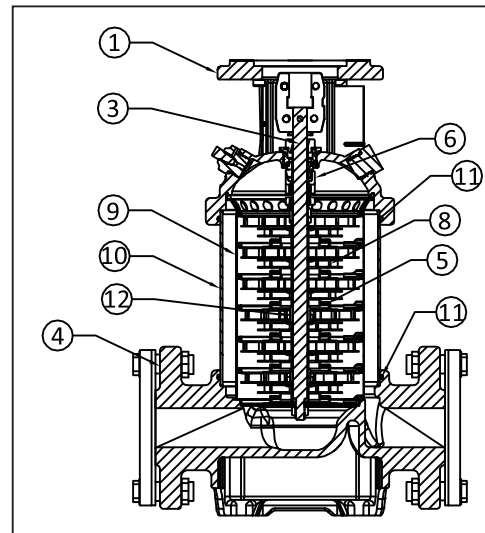
See section 9. Variants, PAGE NO 53 in case of extreme temperatures :

- low temperatures down to -40 °C
- high temperatures up to +180 °C.

TYPE KEYS & CONSTRUCTION

5. CONSTRUCTION

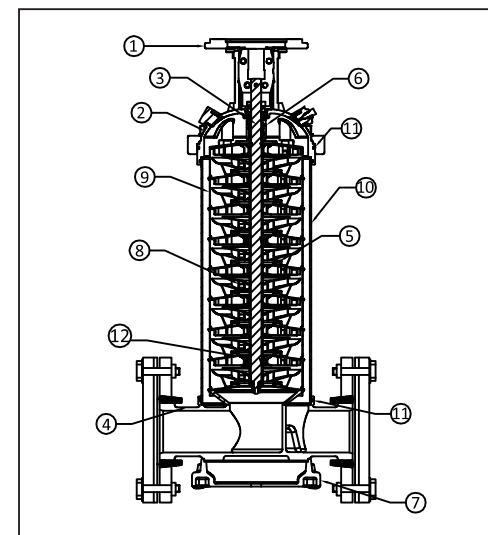
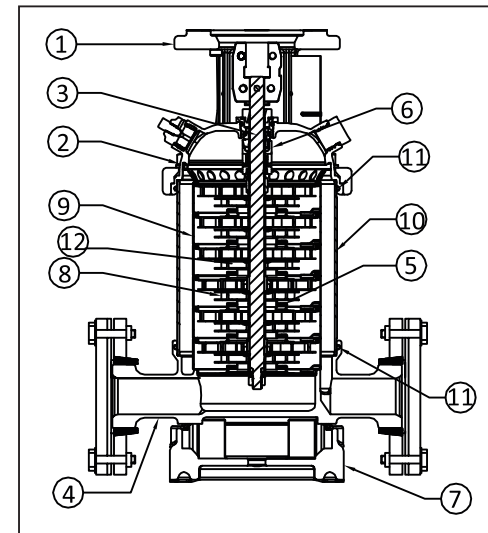
**5.1 SECTIONAL DRAWING SCR
1S, 3, 5, 10, 15 & 20**



Material SCR – 1S, 1, 3, 5, 10, 15, & 20

POS	DESIGNATION	MATERIAL
1	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 For Sleeve	EPDM/FKM
12	Radial Bush	Silicon Carbide
	Stay Bolts	AISI SS 410

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

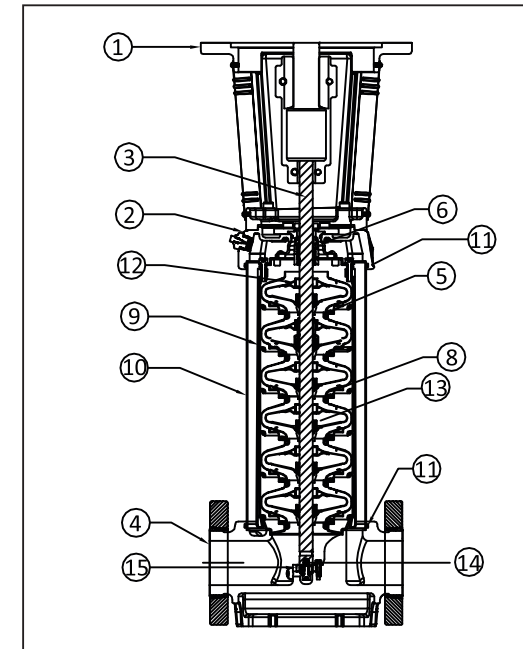


Material SCRI, SCRN – 1S, 1, 3, 5, 10, 15, & 20

POS	DESIGNATION	MATERIAL OF SCRI	MATERIAL OF SCRN
1	Pump Head	Cast Iron	
2	Pump Head Cover	AISI SS 304	AISI SS 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 For Sleeve	EPDM/FKM	
12	Radial Bush	Silicon Carbide	
	Stay Bolts	AISI SS 410	

TYPE KEYS & CONSTRUCTION

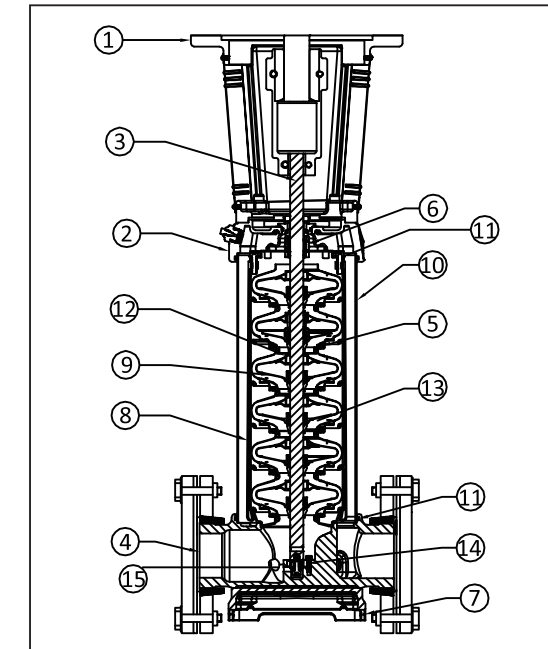
**5.2 SECTIONAL DRAWING SCR
32, 45, 64 & 90**



Material SCR – 32, 45, 64, 90

POS	DESIGNATION	MATERIAL
1	Motor Stool	Cast Iron
2	Pump Head	Cast Iron
3	Pump Shaft	Duplex
4	Pump Base	Cast Iron
5	Neck Ring	PTFE Carbon Graphite Filled
6	Mech. Seal	Cartridge Type
8	Impeller	AISI SS 304
9	Chamber	AISI SS 304
10	Outer Sleeve	AISI SS 304
11	O- Ring For Sleeve	EPDM/FKM
12	Chamber Bush	PTFE Carbon Graphite Filled
13	Bearing Ring Rotating	AISI SS 316
14	Pump Base Bush	Tungsten Carbide
15	Bottom Bearing Ring Rotating	Tungsten Carbide
	Stay Bolts	AISI SS 410

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

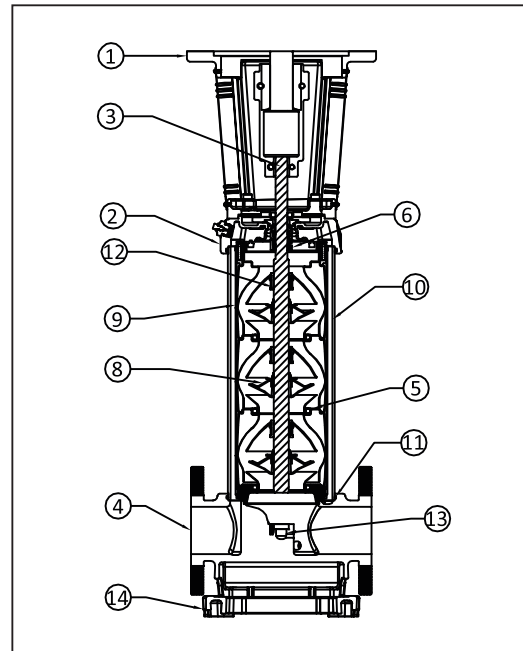


MATERIAL SCRI & SCRN – 32, 45, 64 & 90

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	Duplex	AISI SS 316
4	Pump Base	SS 304	AISI SS 316
5	Neck Ring	PTFE Carbon Graphite Filled	
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 For Sleeve	EPDM/FKM	
12	Chamber Bush	PTFE Carbon Graphite Filled	Tungsten Carbide
13	Bearing Ring Rotating	AISI SS 316	Tungsten Carbide
14	Pump Base Bush	Tungsten Carbide	
15	Bottom Bearing Ring Rotating	Tungsten Carbide	
	Stay Bolts	AISI SS 410	

TYPE 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	Duplex
4	Pump Base	Cast Iron
5	Neck Ring	PTFE
6	Mech. Seal	Cartridge Type
7	Impeller	AISI SS 304
8	Chamber	AISI SS 304
9	Outer Sleeve	AISI SS 304
10	O- Ring For Sleeve	EPDM/FKM
11	Chamber Bush	PTFE Carbon Graphite Filled
13	Thrust Bearing Assly	Carbon / AISI SS 304
14	Pump Base Plate	Cast Iron
	Stay Bolts	AISI SS 410

OPERATING AND INLET PRESSURES

6. TECHNICAL DATA

6.1 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.

Pump type	Maximum inlet pressure [bar]	
SCR, SCRI, SCR N 1s		
1s-2	→ 1s-36	10
SCR, SCRI, SCR N 1		
1-2	→ 1-36	10
SCR, SCRI, SCR N 3		
3-2	→ 3-29	10
3-31	→ 3-36	15
SCR, SCRI, SCR N 5		
5-2	→ 5-16	10
5-18	→ 5-36	15
SCR, SCRI, SCR N 10		
10-1	→ 10-6	8
10-7	→ 10-22	10
SCR, SCRI, SCR N 15		
15-1	→ 15-3	8
15-4	→ 15-17	10
SCR, SCRI, SCR N 20		
20-1	→ 20-3	8
20-4	→ 20-17	10
SCR, SCRI, SCR N 32		
32-1-1	→ 32-4	4
32-5-2	→ 32-10	10
32-11-2	→ 32-14	15
SCR, SCRI, SCR N 45		
45-1-1	→ 45-2	4
45-3-2	→ 45-5	10
45-6-2	→ 45-13-2	15
SCR, SCRI, SCR N 64		
64-1-1	→ 64-2-2	4
64-2-1	→ 64-4-2	10
64-4-1	→ 64-8-1	15
SCR, SCRI, SCR N 90		
90-1-1	→ 90-1	4
90-2-2	→ 90-3-2	10
90-3	→ 90-6	15
SCR 125		
125-1	→ 125-2-1	10
125-2	→ 125-4	15
125-5	→	20
SCR 155		
155-1-1	→ 155-1	10
155-2-1	→ 155-3	15
155-4-1	→	20

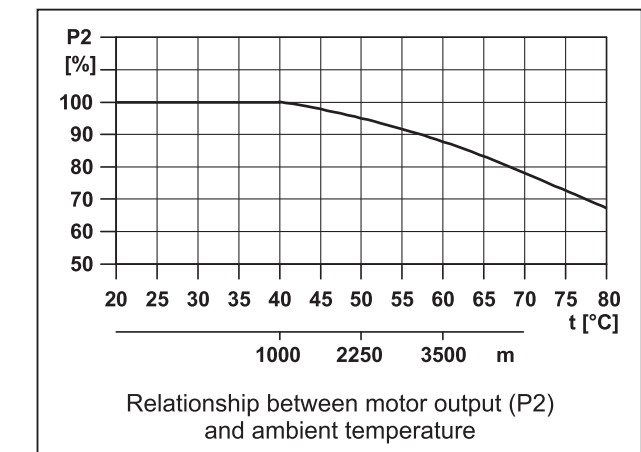
6.2 ELECTRIC - MOTOR

Electrical Data	
	SMG motor
	SCR, SCRI, SCR N
Mounting Designation	Up to 3.7 kW : V18
	From 5.5 kW : V1
Insulation Class	H
Efficiency Class	IE3
Enclosure Class	IP55
Supply Voltage	1 x 220-230/240 V
	3 x 380-415 V
Supply Frequency	50 Hz

6.3 AMBIENT TEMPERATURE

Ambient temperature: maximum +40°C

If the ambient temperature exceeds +40°C 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.



Viscosity

The pumping of liquids with densities or kinematic viscosities higher than those of water will cause a considerable pressure drop, a drop in the hydraulic performance and a rise in the power consumption.

In such situations, the pump should be fitted with a larger motor. If in doubt, contact Shakti.

CONVERSION

6.4 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)



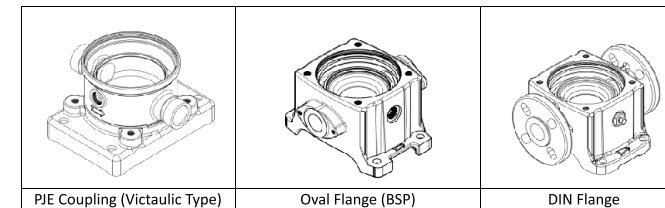
SELECTION AND SIZING

6.5 SELECTION OF PUMPS

Selection of pump on the basis of:

1. Pump Connection: Selection of pump on basis of pump connection depends on rated pressure & the pipes. To fulfill the customer's requirement, the SCR, SCRI and SCRN pumps provide a extensive range of flexible connection, such as:

- Oval flange (BSP) ● DIN flange
- PJE coupling (Victaulic type)



2. Thrust handling device: A thrust handling device (THD) is factory-fitted on pumps with 75 kW motors or larger. The system consists of two parts. A rotating part mounted on the shaft end below the first impeller as well as a non-rotating part mounted in or on the pump base. The THD absorbs the main part of the thrust force generated by the impellers and thereby reduces the resulting axial force the motor bearings must absorb. This enables the use of standard ball bearings in the motor instead of special angular contact ball bearings. Note: For applications involving CIP (cleaning-in-place) and motors above 55 kW, use a bearing flange and a base without THD.

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:

$$H = pb \times 1.02 - NPSH - H_f - H_v - H_s$$

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 pump will be delivering.)

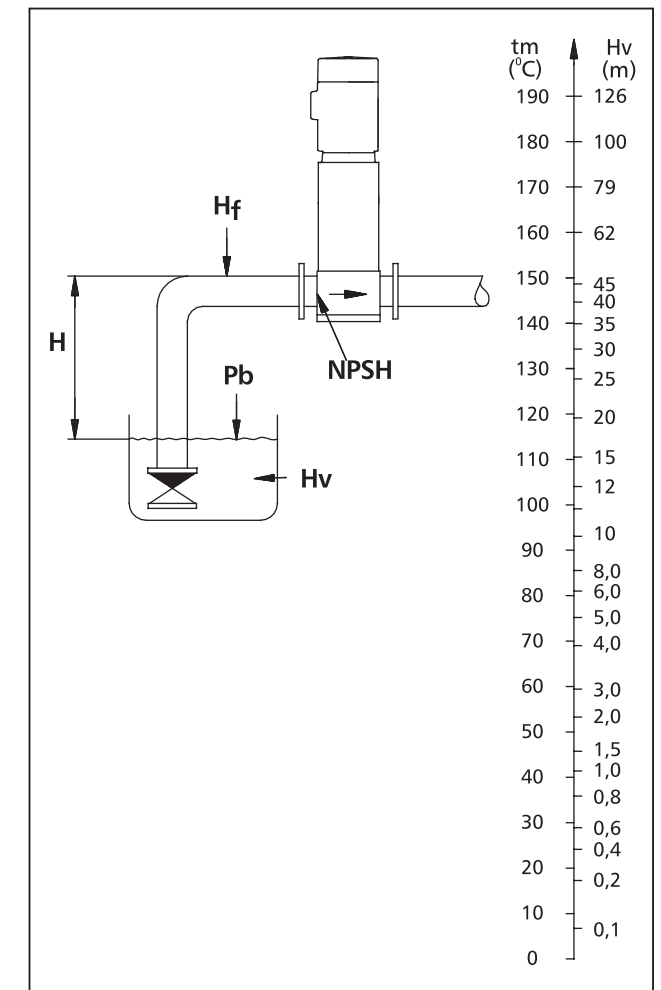
H=Friction loss in suction pipe in meters head. (At the highest flow the pump will be delivering.)

Hv=Vapor pressure in meters head. (To be read from the vapor pressure scale. “Hv” depends on the liquid temperature “Tm”).

Hs=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.

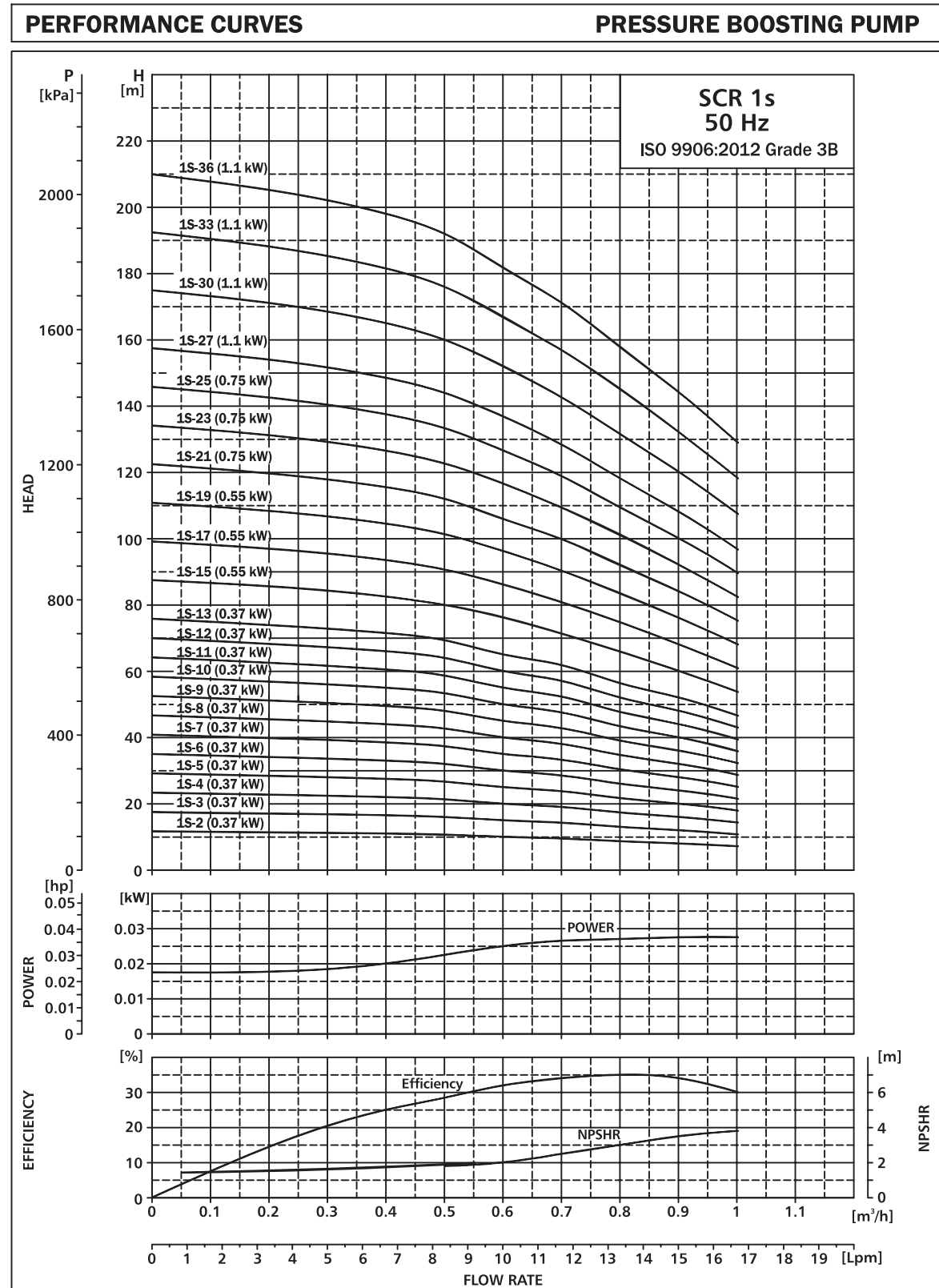
If the “H” calculated is negative, an inlet pressure of minimum “H” meters head is required.



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 CURVE

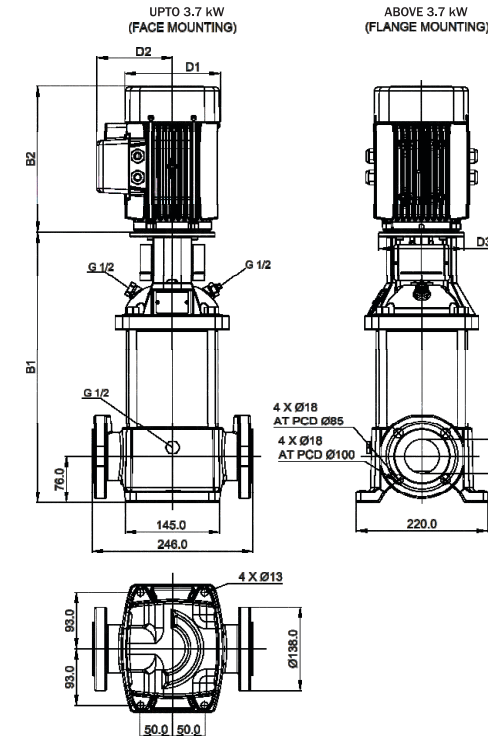
SCR 1s



TECHNICAL DATA

SCR 1s

DIMENSIONAL SKETCH & PERFORMANCE



DIMENSIONS AND WEIGHT

MODEL	SIZE IN MM						WEIGHT (K.G.)
	B1	B2	B1+B2	D1	D2	D3	
SCR 1s - 2	365	202	567	143	130	NA	23
SCR 1s - 3	365	202	567	143	130	NA	23
SCR 1s - 4	365	202	567	143	130	NA	23
SCR 1s - 5	365	202	567	143	130	NA	24
SCR 1s - 6	365	202	567	143	130	NA	24
SCR 1s - 7	365	202	567	143	130	NA	24
SCR 1s - 8	365	202	567	143	130	NA	25
SCR 1s - 9	464	202	666	143	130	NA	25
SCR 1s - 10	464	202	666	143	130	NA	26
SCR 1s - 11	464	202	666	143	130	NA	26
SCR 1s - 12	464	202	666	143	130	NA	26
SCR 1s - 13	563	202	765	143	130	NA	27
SCR 1s - 15	563	202	765	143	130	NA	28
SCR 1s - 17	563	202	765	143	130	NA	29
SCR 1s - 19	563	202	765	143	130	NA	30
SCR 1s - 21	679	240	919	143	130	NA	32
SCR 1s - 23	679	240	919	143	130	NA	33
SCR 1s - 25	679	240	919	143	130	NA	34
SCR 1s - 27	823	240	1063	143	130	NA	37
SCR 1s - 30	823	240	1063	143	130	NA	38
SCR 1s - 33	823	240	1063	143	130	NA	39
SCR 1s - 36	931	240	1171	143	130	NA	41

PERFORMANCE TABLE

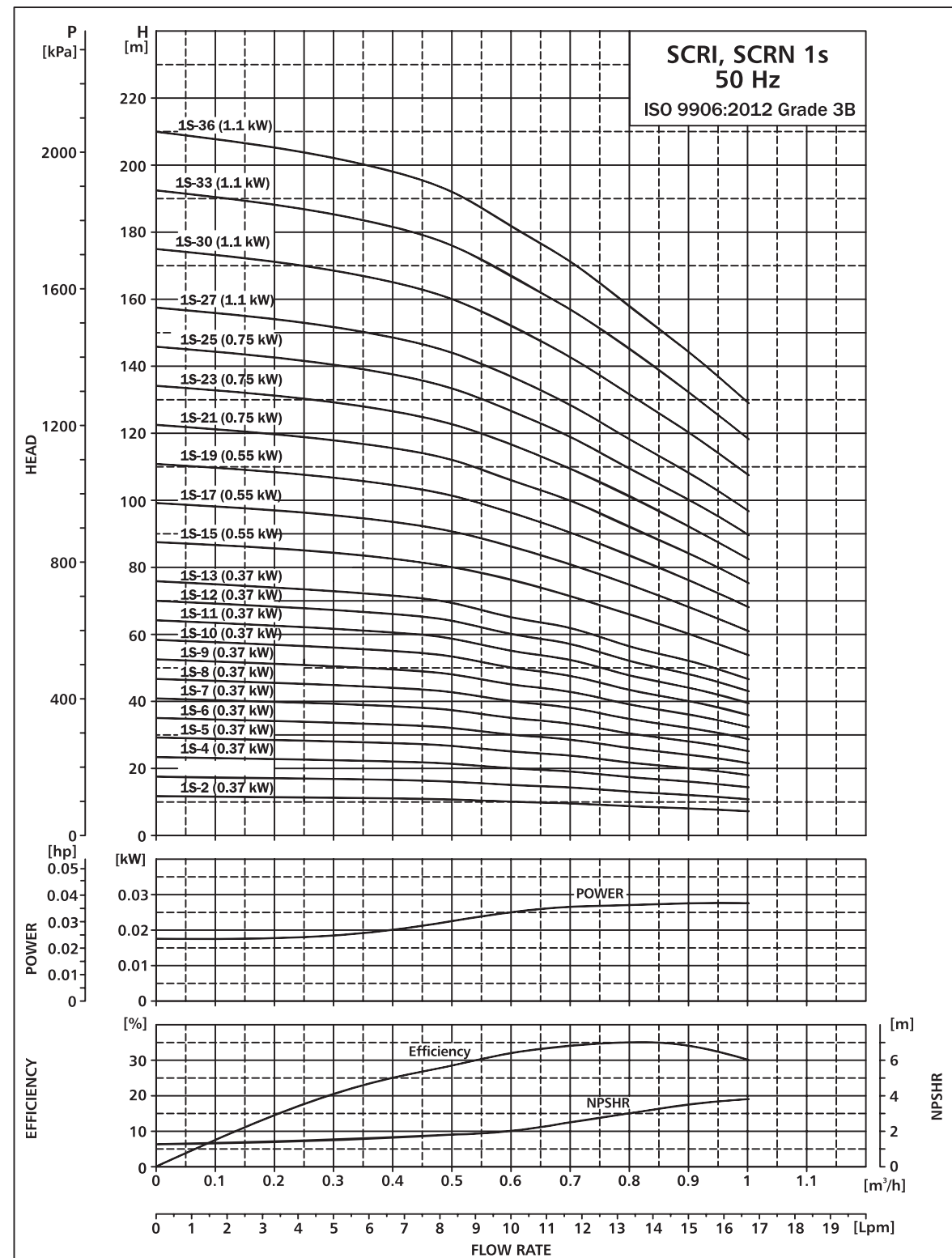
MODEL	kW	HP	Amp.	NPSH (In Mtr)	Head (Mtr)								
					0	0	1.9	2	2.5	3	3.5	3.9	
					m ³ /h	0.4	0.5	0.6	0.7	0.8	0.9	1	
					0	6.66	8.35	10.02	11.69	13.36	15.03	16.7	
SCR 1s-2	0.37	0.5	1.1		12	11	11	10	9	9	8	7	
SCR 1s-3	0.37	0.5	1.1		17	17	16	15	14	13	12	11	
SCR 1s-4	0.37	0.5	1.1		23	22	21	20	19	17	16	14	
SCR 1s-5	0.37	0.5	1.1		29	28	27	25	24	22	20	18	
SCR 1s-6	0.37	0.5	1.1		35	33	32	30	28	26	24	22	
SCR 1s-7	0.37	0.5	1.1		41	39	37	35	33	31	28	25	
SCR 1s-8	0.37	0.5	1.1		46	44	42	40	38	35	32	29	
SCR 1s-9	0.37	0.5	1.1		52	50	48	45	42	39	36	32	
SCR 1s-10	0.37	0.5	1.1		58	55	53	50	47	44	40	36	
SCR 1s-11	0.37	0.5	1.1		64	61	58	55	52	48	44	39	
SCR 1s-12	0.37	0.5	1.1		70	66	64	60	57	52	48	43	
SCR 1s-13	0.37	0.5	1.1		75	72	69	65	61	57	52	47	
SCR 1s-15	0.55	0.75	1.5		87	83	80	75	71	66	60	54	
SCR 1s-17	0.55	0.75	1.5		99	94	90	85	80	74	68	61	
SCR 1s-19	0.55	0.75	1.5		110	105	101	95	89	83	76	68	
SCR 1s-21	0.75	1	1.8		122	116	111	105	99	92	84	75	
SCR 1s-23	0.75	1	1.8		133	127	122	115	108	101	92	83	
SCR 1s-25	0.75	1	1.8		145	138	133	126	118	109	100	90	
SCR 1s-27	1.1	1.5	2.5		157	149	143	136	127	118	108	97	
SCR 1s-30	1.1	1.5	2.5		174	166	159	151	141	131	120	108	
SCR 1s-33	1.1	1.5	2.5		191	182	175	166	155	144	132	118	
SCR 1s-36	1.1	1.5	2.5		209	199	191	181	170	157	144	129	

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

PERFORMANCE CURVE

SCRI, SCRn 1s

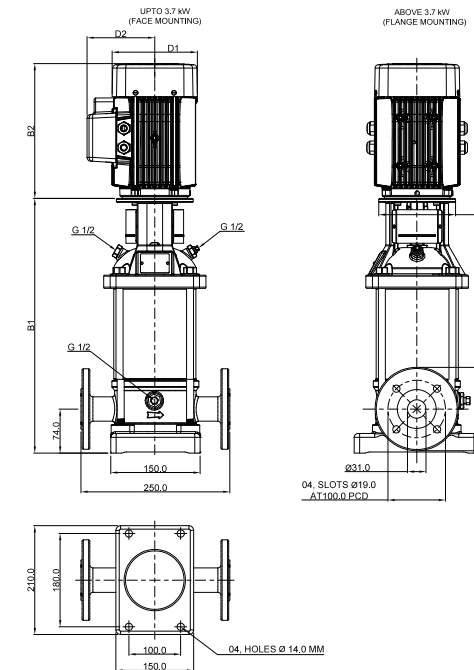
PERFORMANCE CURVES PRESSURE BOOSTING PUMP



TECHNICAL DATA

SCRI, SCRn 1s

DIMENSIONAL SKETCH & PERFORMANCE



DIMENSIONS AND WEIGHT

MODEL	SIZE IN MM						WEIGHT (K.G.)
	B1	B2	B1+B2	D1	D2	D3	
SCRI, SCRn 1s - 2	360	202	562	143	130	NA	19.2
SCRI, SCRn 1s - 3	360	202	562	143	130	NA	19.2
SCRI, SCRn 1s - 4	360	202	562	143	130	NA	19.5
SCRI, SCRn 1s - 5	360	202	562	143	130	NA	19.8
SCRI, SCRn 1s - 6	360	202	562	143	130	NA	20
SCRI, SCRn 1s - 7	360	202	562	143	130	NA	20.6
SCRI, SCRn 1s - 8	360	202	562	143	130	NA	21.4
SCRI, SCRn 1s - 9	459	202	661	143	130	NA	21.8
SCRI, SCRn 1s - 10	459	202	661	143	130	NA	22.3
SCRI, SCRn 1s - 11	459	202	661	143	130	NA	22.8
SCRI, SCRn 1s - 12	459	202	661	143	130	NA	23.3
SCRI, SCRn 1s - 13	558	202	760	143	130	NA	23.6
SCRI, SCRn 1s - 15	558	202	760	143	130	NA	24.6
SCRI, SCRn 1s - 17	558	202	760	143	130	NA	25.1
SCRI, SCRn 1s - 19	558	202	760	143	130	NA	25.8
SCRI, SCRn 1s - 21	674	240	914	143	130	NA	28.3
SCRI, SCRn 1s - 23	674	240	914	143	130	NA	29.1
SCRI, SCRn 1s - 25	674	240	914	143	130	NA	30.3
SCRI, SCRn 1s - 27	818	240	1058	143	130	NA	32.2
SCRI, SCRn 1s - 30	818	240	1058	143	130	NA	35.5
SCRI, SCRn 1s - 33	818	240	1058	143	130	NA	34.5
SCRI, SCRn 1s - 36	926	240	1166	143	130	NA	36.6

PERFORMANCE TABLE

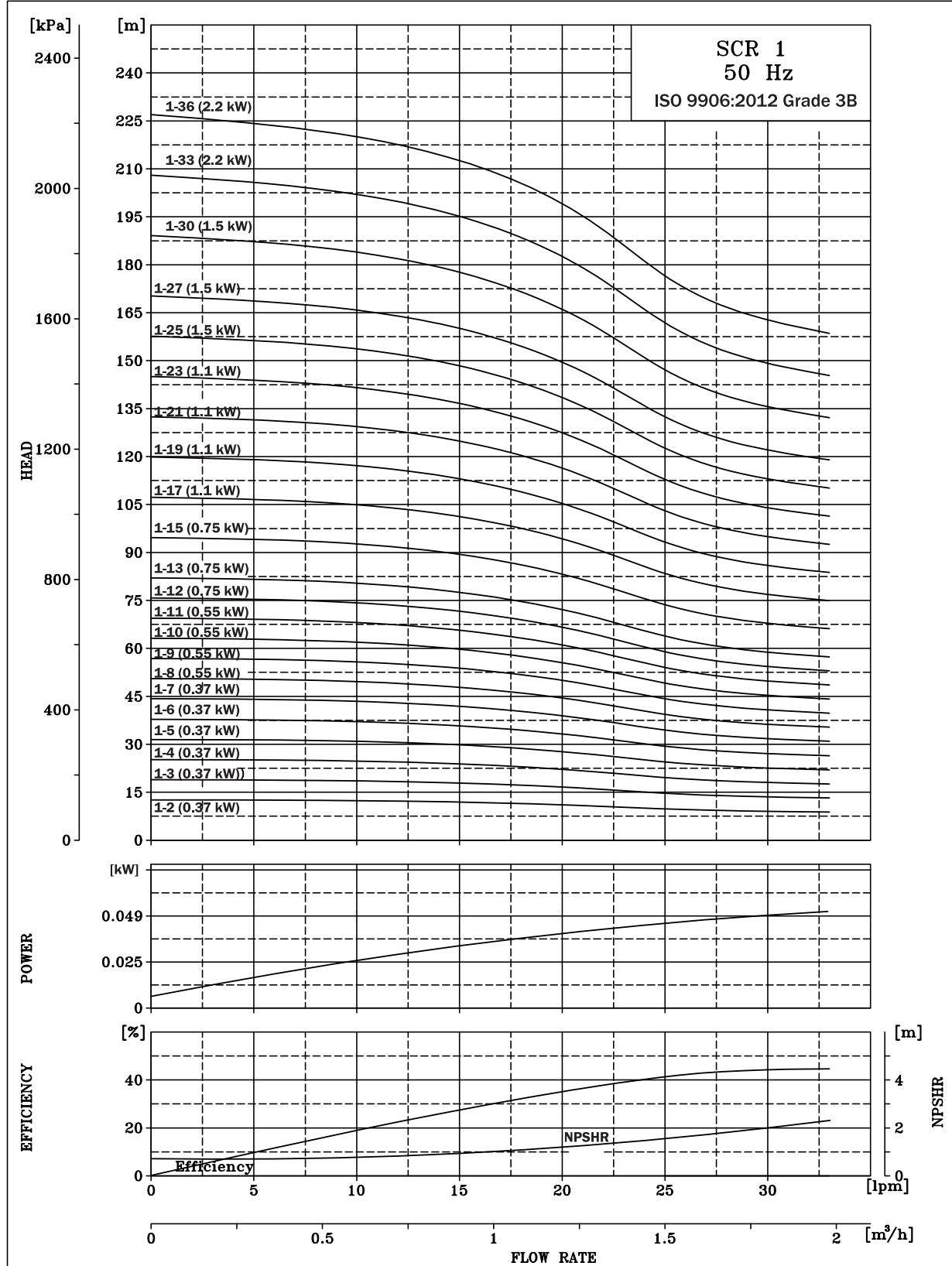
MODEL	kW	HP	Amp.	NPSH (In Mtr)	Head (Mtr)								
					0	0	1.9	2	2.5	3	3.5	3.9	
					m ³ /h	0.4	0.5	0.6	0.7	0.8	0.9	1	
					0	6.66	8.35	10.02	11.69	13.36	15.03	16.7	
					LPM								
SCRI, SCRn 1S-2	0.37	0.5	1.1		12	11	11	10	9	9	8	7	
SCRI, SCRn 1S-3	0.37	0.5	1.1		17	17	16	15	14	13	12	11	
SCRI, SCRn 1S-4	0.37	0.5	1.1		23	22	21	20	19	17	16	14	
SCRI, SCRn 1S-5	0.37	0.5	1.1		29	28	27	25	24	22	20	18	
SCRI, SCRn 1S-6	0.37	0.5	1.1		35	33	32	30	28	26	24	22	
SCRI, SCRn 1S-7	0.37	0.5	1.1		41	39	37	35	33	31	28	25	
SCRI, SCRn 1S-8	0.37	0.5	1.1		46	44	42	40	38	35	32	29	
SCRI, SCRn 1S-9	0.37	0.5	1.1		52	50	48	45	42	39	36	32	
SCRI, SCRn 1S-10	0.37	0.5	1.1		58	55	53	50	47	44	40	36	
SCRI, SCRn 1S-11	0.37	0.5	1.1		64	61	58	55	52	48	44	39	
SCRI, SCRn 1S-12	0.37	0.5	1.1		70	66	64	60	57	52	48	43	
SCRI, SCRn 1S-13	0.37	0.5	1.1		75	72	69	65	61	57	52	47	
SCRI, SCRn 1S-15	0.55	0.75	1.5		87	83	80	75	71	66	60	54	
SCRI, SCRn 1S-17	0.55	0.75	1.5		99	94	90	85	80	74	68	61	
SCRI, SCRn 1S-19	0.55	0.75	1.5		110	105	101	95	89	83	76	68	
SCRI, SCRn 1S-21	0.75	1	1.8		122	116	111	105	99	92	84	75	
SCRI, SCRn 1S-23	0.75	1	1.8		133	127	122	115	108	101	92	83	
SCRI, SCRn 1S-25	0.75	1	1.8		145	138	133	126	118	109	100	90	
SCRI, SCRn 1S-27	1.1	1.5	2.5		157	149	143	136	127	118	108	97	
SCRI, SCRn 1S-30	1.1	1.5	2.5		174	166	159	151	141	131	120	108	
SCRI, SCRn 1S-33	1.1	1.5	2.5		191	182	175	166	155	144	132	118	
SCRI, SCRn 1S-36	1.1	1.5	2.5		209	199	191	181	170	157	144	129	

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

PERFORMANCE CURVE

SCR 1

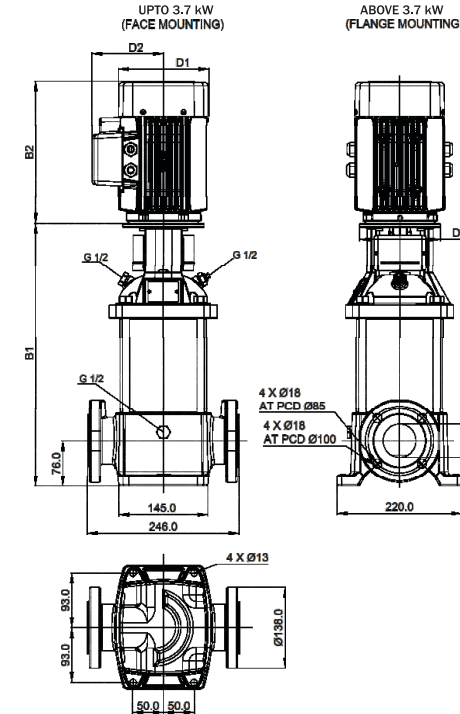
Performance Curves



TECHNICAL DATA

SCR 1

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	24
SCR 1- 6	365	202	567	143	130	NA	25
SCR 1- 7	365	202	567	143	130	NA	25
SCR 1- 8	365	202	567	143	130	NA	27
SCR 1- 9	464	202	666	143	130	NA	28
SCR 1- 10	464	202	666	143	130	NA	28
SCR 1- 11	464	202	666	143	130	NA	31
SCR 1- 12	472	240	712	143	130	NA	31
SCR 1- 13	571	240	811	143	130	NA	31
SCR 1- 15	571	240	811	143	130	NA	32
SCR 1- 17	571	240	811	143	130	NA	33
SCR 1- 19	571	240	811	143	130	NA	34
SCR 1- 21	679	240	919	143	130	NA	42
SCR 1- 23	679	240	919	143	130	NA	43
SCR 1- 25	693	278	971	173	142	NA	44
SCR 1- 27	837	278	1115	173	142	NA	45
SCR 1- 30	837	278	1115	173	142	NA	46
SCR 1- 33	837	312	1149	173	162	NA	53
SCR 1- 36	945	312	1257	173	162	NA	55

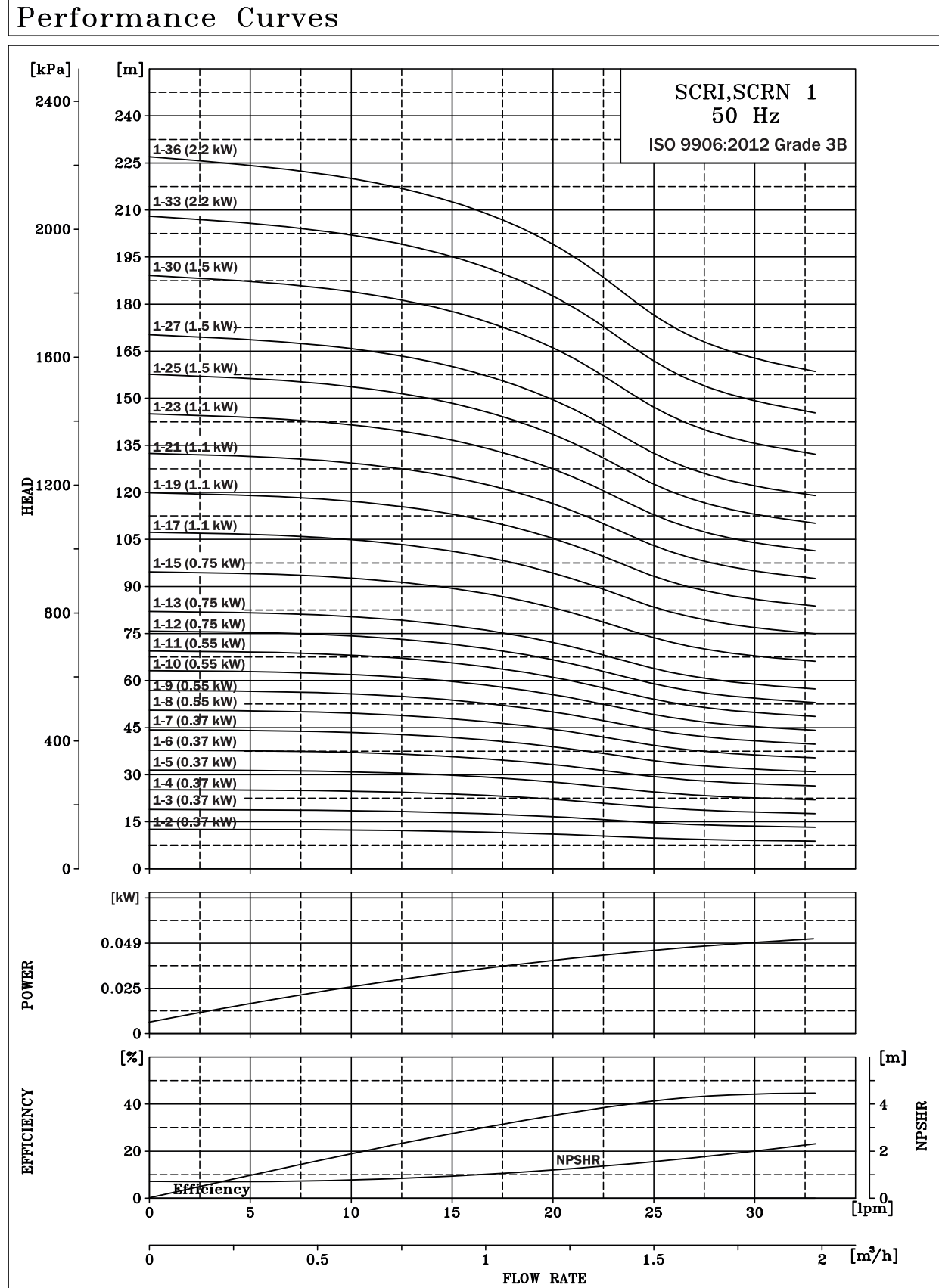
PERFORMANCE TABLE

MODEL	kW	HP	AMP.	NPSH (In Mtr)						
				0	0.8	1.6	1.8	2.2	2.4	
				M3/h	0	0.8	1.4	1.6	1.8	2.0
				LPM						
				0	13.3	23.3	26.7	30.0	33.3	
SCR 1-2	0.37	0.5	1.1	13	11	10	9	9	8	
SCR 1-3	0.37	0.5	1.1	19	17	15	14	13	12	
SCR 1-4	0.37	0.5	1.1	25	23	20	19	18	16	
SCR 1-5	0.37	0.5	1.1	31	28	25	24	22	20	
SCR 1-6	0.37	0.5	1.1	38	34	30	28	27	24	
SCR 1-7	0.37	0.5	1.1	44	39	35	33	31	28	
SCR 1-8	0.55	0.75	1.5	50	45	40	38	36	32	
SCR 1-9	0.55	0.75	1.5	56	51	45	43	40	36	
SCR 1-10	0.55	0.75	1.5	63	56	50	47	45	40	
SCR 1-11	0.55	0.75	1.5	69	62	55	52	49	44	
SCR 1-12	0.75	1.0	1.8	75	68	60	57	53	48	
SCR 1-13	0.75	1.0	1.8	82	73	65	61	58	52	
SCR 1-15	0.75	1.0	1.8	94	85	75	71	67	60	
SCR 1-17	1.1	1.5	2.5	107	96	85	80	76	68	
SCR 1-19	1.1	1.5	2.5	119	107	95	90	85	76	
SCR 1-21	1.1	1.5	2.5	132	118	105	99	94	84	
SCR 1-23	1.1	1.5	2.5	144	130	115	109	102	92	
SCR 1-25	1.5	2.0	3.6	157	141	125	118	111	100	
SCR 1-27	1.5	2.0	3.6	169	152	135	128	120	108	
SCR 1-30	1.5	2.0	3.6	188	169	150	142	134	120	
SCR 1-33	2.2	3.0	4.5	207	186	165	156	147	132	
SCR 1-36	2.2	3.0	4.5	226	203	180	170	160	144	

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

PERFORMANCE CURVE

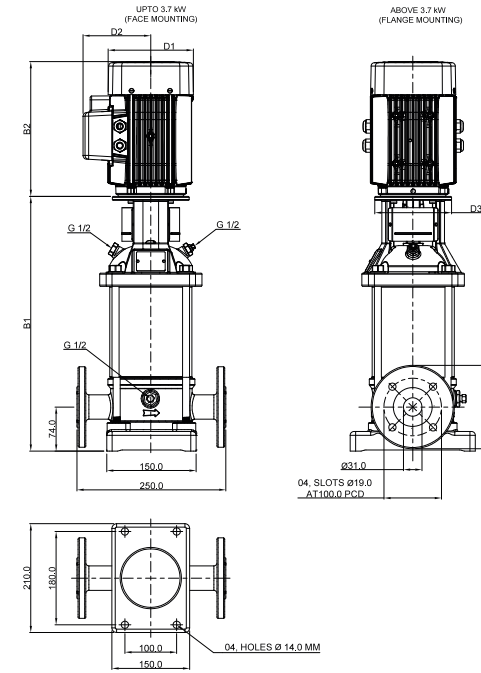
SCRI, SCRN 1



TECHNICAL DATA

SCRI, SCRN 1

DIMENSIONAL SKETCH & PERFORMANCE



DIMENSIONS AND WEIGHT

MODEL	SIZE IN MM						WEIGHT (K.G.)
	B1	B2	B1+B2	D1	D2	D3	
SCRI, SCRN 1 - 2	360	202	562	143	130	NA	19.2
SCRI, SCRN 1 - 3	360	202	562	143	130	NA	19.2
SCRI, SCRN 1 - 4	360	202	562	143	130	NA	19.5
SCRI, SCRN 1 - 5	360	202	562	143	130	NA	19.8
SCRI, SCRN 1 - 6	360	202	562	143	130	NA	20
SCRI, SCRN 1 - 7	360	202	562	143	130	NA	20.6
SCRI, SCRN 1 - 8	360	202	562	143	130	NA	21.9
SCRI, SCRN 1 - 9	459	202	661	143	130	NA	22.8
SCRI, SCRN 1 - 10	459	202	661	143	130	NA	23.3
SCRI, SCRN 1 - 11	459	202	661	143	130	NA	23.3
SCRI, SCRN 1 - 12	467	240	707	143	130	NA	25.5
SCRI, SCRN 1 - 13	566	240	806	143	130	NA	25.7
SCRI, SCRN 1 - 15	566	240	806	143	130	NA	26.3
SCRI, SCRN 1 - 17	566	240	806	143	130	NA	28.2
SCRI, SCRN 1 - 19	566	240	806	143	130	NA	28.9
SCRI, SCRN 1 - 21	674	240	914	143	130	NA	29.7
SCRI, SCRN 1 - 23	674	240	914	143	130	NA	30.5
SCRI, SCRN 1 - 25	692	278	970	173	142	NA	37.6
SCRI, SCRN 1 - 27	836	278	1114	173	142	NA	38.1
SCRI, SCRN 1 - 30	836	278	1114	173	142	NA	39.4
SCRI, SCRN 1 - 33	836	312	1148	173	162	NA	42.4
SCRI, SCRN 1 - 36	944	312	1256	173	162	NA	44.5

PERFORMANCE TABLE

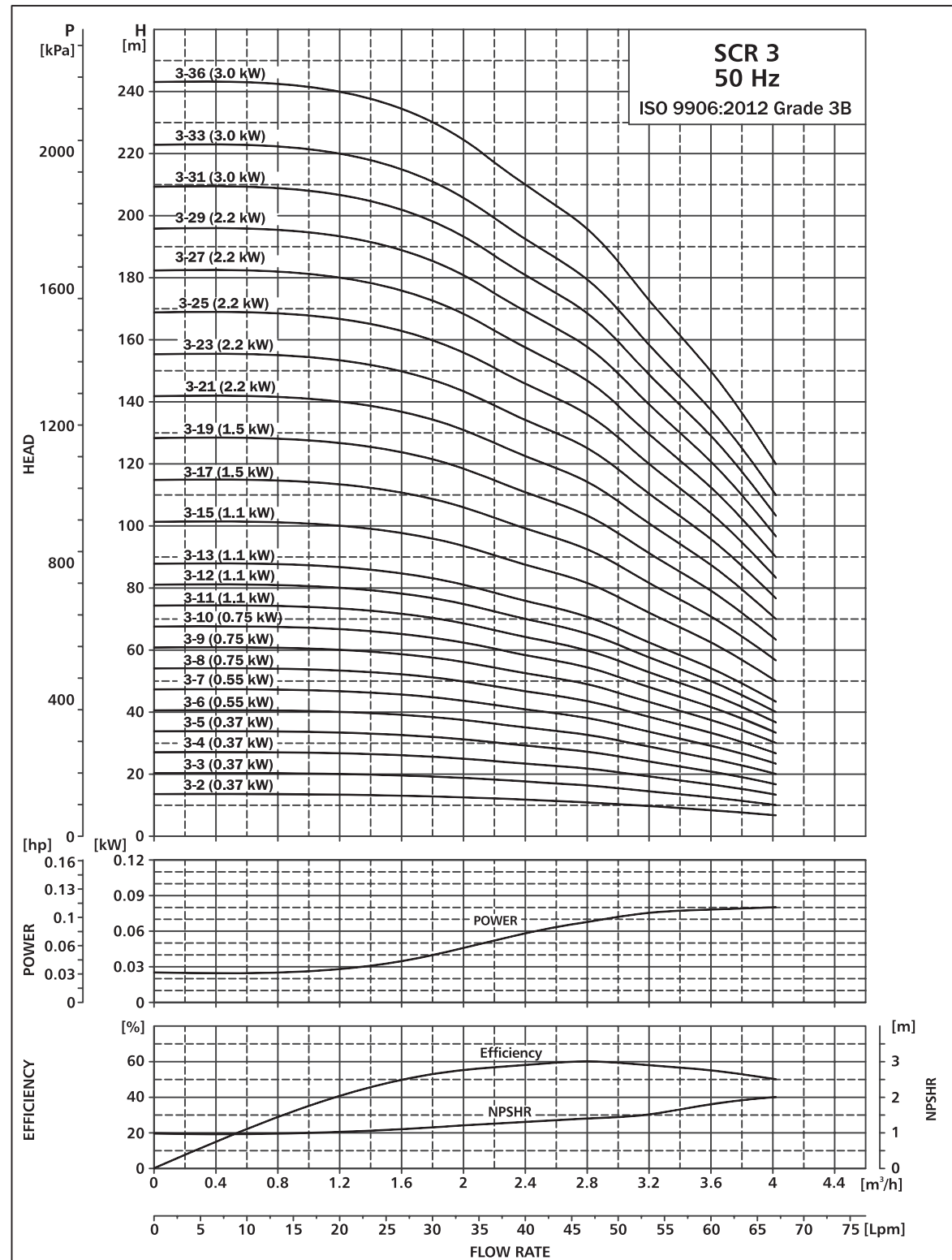
MODEL	kW	HP	AMP.	NPSH (In Mtr)							
				0	0.8	1.6	1.8	2.2	2.4		
				M3/h	0	0.8	1.4	1.6	1.8	2.0	
				LPM							
				0	13.3	23.3	26.7	30.0	33.3		
SCRI, SCRN 1 - 2	0.37	0.5	1.1	13	11	10	9	9	8		
SCRI, SCRN 1 - 3	0.37	0.5	1.1	19	17	15	14	13	12		
SCRI, SCRN 1 - 4	0.37	0.5	1.1	25	23	20	19	18	16		
SCRI, SCRN 1 - 5	0.37	0.5	1.1	31	28	25	24	22	20		
SCRI, SCRN 1 - 6	0.37	0.5	1.1	38	34	30	28	27	24		
SCRI, SCRN 1 - 7	0.37	0.5	1.1	44	39	35	33	31	28		
SCRI, SCRN 1 - 8	0.55	0.75	1.5	50	45	40	38	36	32		
SCRI, SCRN 1 - 9	0.55	0.75	1.5	56	51	45	43	40	36		
SCRI, SCRN 1 - 10	0.55	0.75	1.5	63	56	50	47	45	40		
SCRI, SCRN 1 - 11	0.55	0.75	1.5	69	62	55	52	49	44		
SCRI, SCRN 1 - 12	0.75	1.0	1.8	75	68	60	57	53	48		
SCRI, SCRN 1 - 13	0.75	1.0	1.8	82	73	65	61	58	52		
SCRI, SCRN 1 - 15	0.75	1.0	1.8	94	85	75	71	67	60		
SCRI, SCRN 1 - 17	1.1	1.5	2.5	107	96	85	80	76	68		
SCRI, SCRN 1 - 19	1.1	1.5	2.5	119	107	95	90	85	76		
SCRI, SCRN 1 - 21	1.1	1.5	2.5	132	118	105	99	94	84		
SCRI, SCRN 1 - 23	1.1	1.5	2.5	144	130	115	109	102	92		
SCRI, SCRN 1 - 25	1.5	2.0	3.6	157	141	125	118	111	100		
SCRI, SCRN 1 - 27	1.5	2.0	3.6	169	152	135	128	120	108		
SCRI, SCRN 1 - 30	1.5	2.0	3.6	188	169	150	142	134	120		
SCRI, SCRN 1 - 33	2.2	3.0	4.5	207	186	165	156	147	132		
SCRI, SCRN 1 - 36	2.2	3.0	4.5	226	203	180	170	160	144		

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

PERFORMANCE CURVE

SCR 3

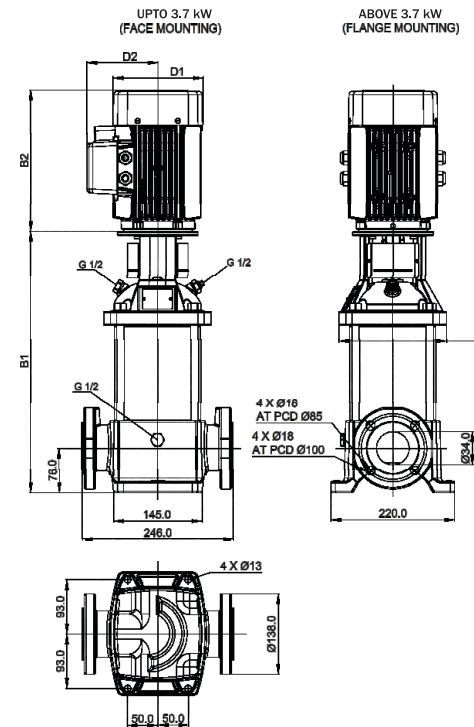
PERFORMANCE CURVES PRESSURE BOOSTING PUMP



TECHNICAL DATA

SCR 3

DIMENSIONAL SKETCH & PERFORMANCE



DIMENSIONS AND WEIGHT

MODEL	SIZE IN MM						WEIGHT (K.G.)
	B1	B2	B1+B2	D1	D2	D3	
SCR 3-2	365	202	567	143	130	NA	23
SCR 3-3	365	202	567	143	130	NA	23
SCR 3-4	365	202	567	143	130	NA	23
SCR 3-5	365	202	567	143	130	NA	24
SCR 3-6	365	202	567	143	130	NA	25
SCR 3-7	365	202	567	143	130	NA	25
SCR 3-8	373	240	613	143	130	NA	27
SCR 3-9	472	240	712	143	130	NA	28
SCR 3-10	472	240	712	143	130	NA	28
SCR 3-11	472	240	712	143	130	NA	31
SCR 3-12	472	240	712	143	130	NA	31
SCR 3-13	571	240	811	143	130	NA	31
SCR 3-15	571	240	811	143	130	NA	32
SCR 3-17	585	278	863	173	142	NA	40
SCR 3-19	585	278	863	173	142	NA	41
SCR 3-21	693	312	1005	173	162	NA	42
SCR 3-23	693	312	1005	173	162	NA	43
SCR 3-25	693	312	1005	173	162	NA	44
SCR 3-27	837	312	1149	173	162	NA	45
SCR 3-29	837	312	1149	173	162	NA	46
SCR 3-31	847	335	1182	225	182	NA	53
SCR 3-33	847	335	1182	225	182	NA	53
SCR 3-36	955	335	1290	225	182	NA	55

PERFORMANCE TABLE

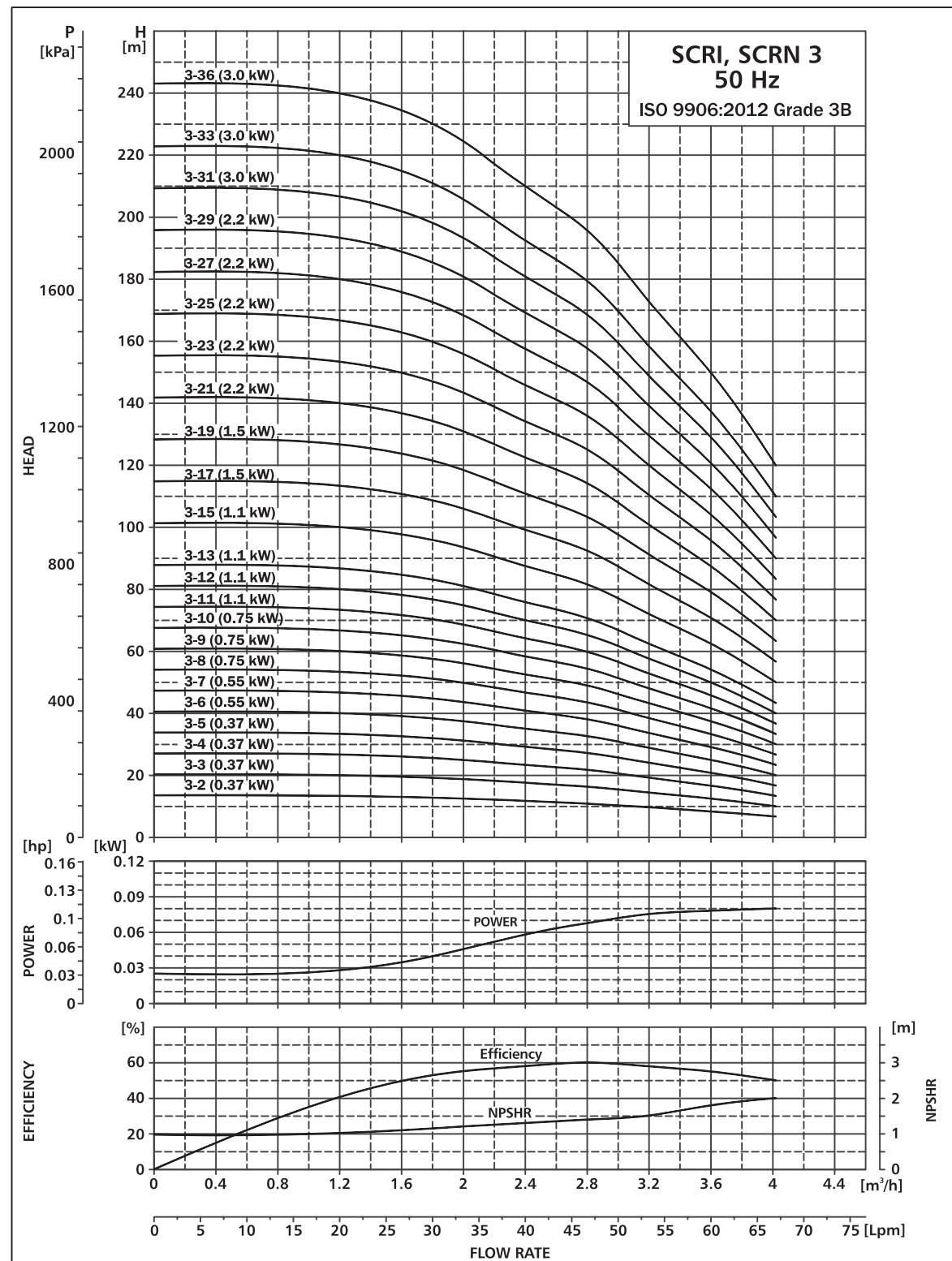
MODEL	kW	HP	Amp.	NPSH (In Mtr)	Head (Mtr)								
					0	1.1	1.2	1.3	1.4	1.5	1.7	2	
					m³/h	1.6	2	2.4	2.8	3.2	3.6	4	
					0	27	33	40	47	53	60	67	
					14	13	13	12	11	10	8	7	
SCR 3-2	0.37	0.5	1.1		20	20	19	18	16	14	12	10	
SCR 3-3	0.37	0.5	1.1		27	26	25	23	22	19	17	13	
SCR 3-4	0.37	0.5	1.1		34	33	31	29	27	24	21	17	
SCR 3-5	0.37	0.5	1.1		41	39	38	35	32	29	25	20	
SCR 3-6	0.55	0.75	1.5		47	46	44	41	38	34	29	23	
SCR 3-7	0.55	0.75	1.5		54	52	50	47	43	38	33	27	
SCR 3-8	0.75	1	1.8		61	59	56	53	49	43	37	30	
SCR 3-9	0.75	1	1.8		68	65	63	58	54	48	41	34	
SCR 3-10	0.75	1	1.8		74	72	69	64	59	53	46	37	
SCR 3-11	1.1	1.5	2.5		81	78	75	70	65	58	50	40	
SCR 3-12	1.1	1.5	2.5		88	85	81	76	70	62	54	44	
SCR 3-13	1.1	1.5	2.5		101	98	94	88	81	72	62	50	
SCR 3-15	1.1	1.5	2.5		115	111	106	99	92	82	70	57	
SCR 3-17	1.5	2	3.6		128	124	119	111	103	91	79	64	
SCR 3-19	1.5	2	3.6		142	137	131	123	113	101	87	70	
SCR 3-21	2.2	3	4.6		155	150	144	134	124	110	95	77	
SCR 3-23	2.2	3	4.6		169	164	157	146	135	120	104	84	
SCR 3-25	2.2	3	4.6		182	177	169	158	146	130	112	90	
SCR 3-27	2.2	3	4.6		196	190	182	169	157	139	120	97	
SCR 3-29	2.2	3	4.6		209	203	194	181	167	149	128	104	
SCR 3-31	3	4	5.7		223	216	207	193	178	158	137	111	
SCR 3-33	3	4	5.7		243	235	225	210	194	173	149	121	
SCR 3-36	3	4	5.7										

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

PERFORMANCE CURVE

SCRI, SCRN 3

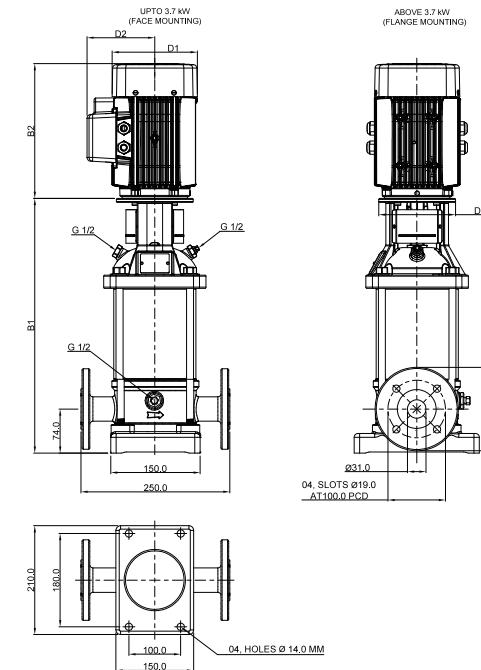
PERFORMANCE CURVES PRESSURE BOOSTING PUMP



TECHNICAL DATA

SCRI, SCRN 3

DIMENSIONAL SKETCH & PERFORMANCE



DIMENSIONS AND WEIGHT

MODEL	SIZE IN MM						WEIGHT (K.G.)
	B1	B2	B1+B2	D1	D2	D3	
SCRI, SCRN 3-2	360	202	562	143	130	NA	19.2
SCRI, SCRN 3-3	360	202	562	143	130	NA	19.2
SCRI, SCRN 3-4	360	202	562	143	130	NA	19.5
SCRI, SCRN 3-5	360	202	562	143	130	NA	19.8
SCRI, SCRN 3-6	360	202	562	143	130	NA	20.5
SCRI, SCRN 3-7	360	202	562	143	130	NA	21.1
SCRI, SCRN 3-8	368	240	608	143	130	NA	23.6
SCRI, SCRN 3-9	467	240	707	143	130	NA	24
SCRI, SCRN 3-10	467	240	707	143	130	NA	24.5
SCRI, SCRN 3-11	467	240	707	143	130	NA	26.4
SCRI, SCRN 3-12	467	240	707	143	130	NA	26.9
SCRI, SCRN 3-13	566	240	806	143	130	NA	27.1
SCRI, SCRN 3-15	566	240	806	143	130	NA	27.7
SCRI, SCRN 3-17	584	278	862	173	142	NA	34.1
SCRI, SCRN 3-19	584	278	862	173	142	NA	34.8
SCRI, SCRN 3-21	692	312	1004	173	162	NA	57.45
SCRI, SCRN 3-23	692	312	1004	173	162	NA	57.8
SCRI, SCRN 3-25	692	312	1004	173	162	NA	39.6
SCRI, SCRN 3-27	836	312	1148	173	162	NA	40.1
SCRI, SCRN 3-29	836	312	1148	173	162	NA	49.5
SCRI, SCRN 3-31	838	335	1173	225	182	NA	47.2
SCRI, SCRN 3-33	838	335	1173	225	182	NA	47.9
SCRI, SCRN 3-36	946	335	1281	225	182	NA	50

PERFORMANCE TABLE

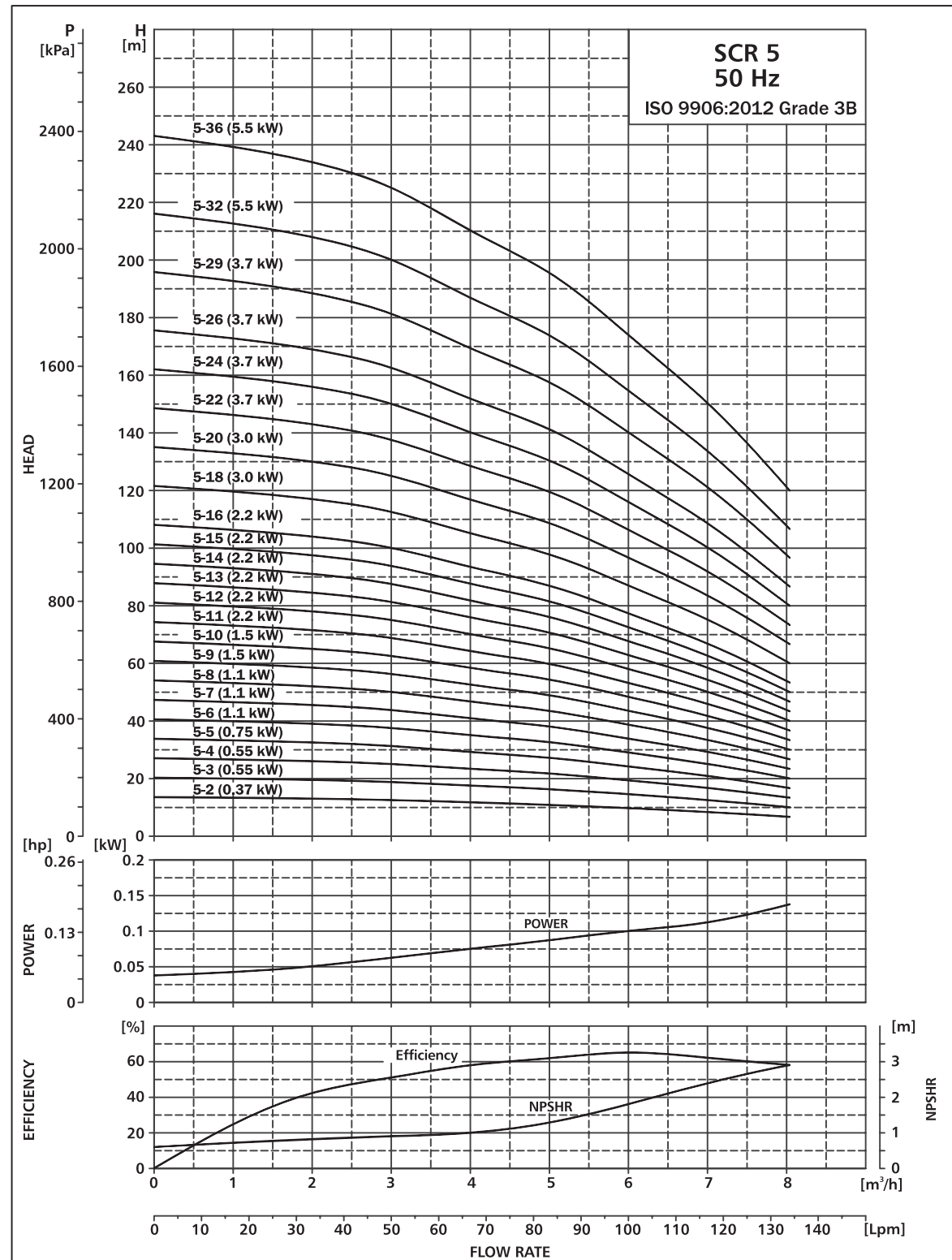
MODEL	kW	HP	Amp.	NPSH (In Mtr)	Head (Mtr)							
					0	1.1	1.2	1.3	1.4	1.5	1.7	2
					0	1.6	2	2.4	2.8	3.2	3.6	4
SCRI, SCRN 3-2	0.37	0.5	1.1	Head (Mtr)	0	1.6	2	2.4	2.8	3.2	3.6	4
SCRI, SCRN 3-3	0.37	0.5	1.1		14	13	13	12	11	10	8	7
SCRI, SCRN 3-4	0.37	0.5	1.1		20	20	19	18	16	14	12	10
SCRI, SCRN 3-5	0.37	0.5	1.1		27	26	25	23	22	19	17	13
SCRI, SCRN 3-6	0.55	0.75	1.5		34	33	31	29	27	24	21	17
SCRI, SCRN 3-7	0.55	0.75	1.5		41	39	38	35	32	29	25	20
SCRI, SCRN 3-8	0.75	1	1.8		47	46	44	41	38	34	29	23
SCRI, SCRN 3-9	0.75	1	1.8		54	52	50	47	43	38	33	27
SCRI, SCRN 3-10	0.75	1	1.8		61	59	56	53	49	43	37	30
SCRI, SCRN 3-11	1.1	1.5	2.5		68	65	63	58	54	48	41	34
SCRI, SCRN 3-12	1.1	1.5	2.5		74	72	69	64	59	53	46	37
SCRI, SCRN 3-13	1.1	1.5	2.5		81	78	75	70	65	58	50	40
SCRI, SCRN 3-15	1.1	1.5	2.5		88	85	81	76	70	62	54	44
SCRI, SCRN 3-17	1.5	2	3.6		101	98	94	88	81	72	62	50
SCRI, SCRN 3-19	1.5	2	3.6		115	111	106	99	92	82	70	57
SCRI, SCRN 3-21	2.2	3	4.6		128	124	119	111	103	91	79	64
SCRI, SCRN 3-23	2.2	3	4.6		142	137	131	123	113	101	87	70
SCRI, SCRN 3-25	2.2	3	4.6		155	150	144	134	124	110	95	77
SCRI, SCRN 3-27	2.2	3	4.6		169	164	157	146	135	120	104	84
SCRI, SCRN 3-29	2.2	3	4.6		182	177	169	158	146	130	112	90
SCRI, SCRN 3-31	3	4	5.7		196	190	182	169	157	139	120	97
SCRI, SCRN 3-33	3	4	5.7		209	203	194	181	167	149	128	104
SCRI, SCRN 3-36	3	4	5.7		223	216	207	193	178	158	137	111
					243	235	225	210	194	173	149	121

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

PERFORMANCE CURVE

SCR 5

PERFORMANCE CURVES PRESSURE BOOSTING PUMP

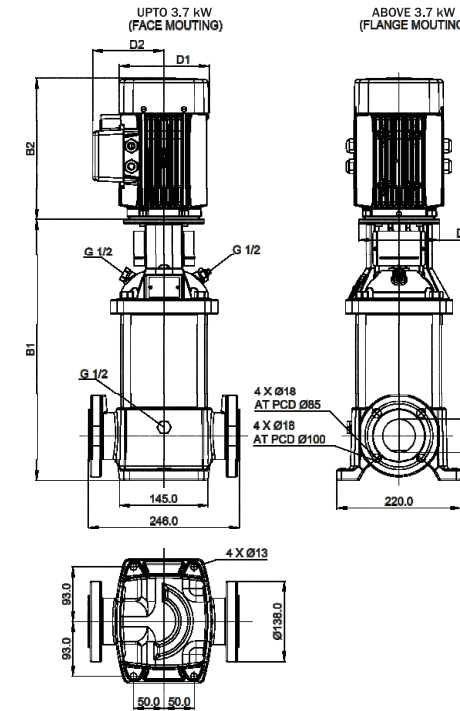


TECHNICAL DATA



SCR 5

DIMENSIONAL SKETCH & PERFORMANCE



DIMENSIONS AND WEIGHT

MODEL	SIZE IN MM						WEIGHT (K.G.)
	B1	B2	B1+B2	D1	D2	D3	
SCR 5 - 2	365	202	567	143	130	NA	23
SCR 5 - 3	365	202	567	143	130	NA	24
SCR 5 - 4	365	202	567	143	130	NA	25
SCR 5 - 5	472	240	712	143	130	NA	27
SCR 5 - 6	472	240	712	143	130	NA	30
SCR 5 - 7	472	240	712	143	130	NA	30
SCR 5 - 8	472	240	712	143	130	NA	31
SCR 5 - 9	486	278	764	173	142	NA	38
SCR 5 - 10	585	278	863	173	142	NA	39
SCR 5 - 11	585	312	897	173	162	NA	40
SCR 5 - 12	585	312	897	173	162	NA	41
SCR 5 - 13	693	312	1005	173	162	NA	41
SCR 5 - 14	693	312	1005	173	162	NA	42
SCR 5 - 15	693	312	1005	173	162	NA	43
SCR 5 - 16	693	312	1005	173	162	NA	43
SCR 5 - 18	847	335	1182	225	182	NA	50
SCR 5 - 20	847	335	1182	225	182	NA	52
SCR 5 - 22	847	335	1182	225	182	NA	62
SCR 5 - 24	955	335	1290	225	182	NA	63
SCR 5 - 26	955	335	1290	225	182	NA	64
SCR 5 - 29	1117	335	1452	225	182	NA	66
SCR 5 - 32	1139	410	1549	225	135	300	82
SCR 5 - 36	1247	410	1657	225	135	300	84

PERFORMANCE TABLE

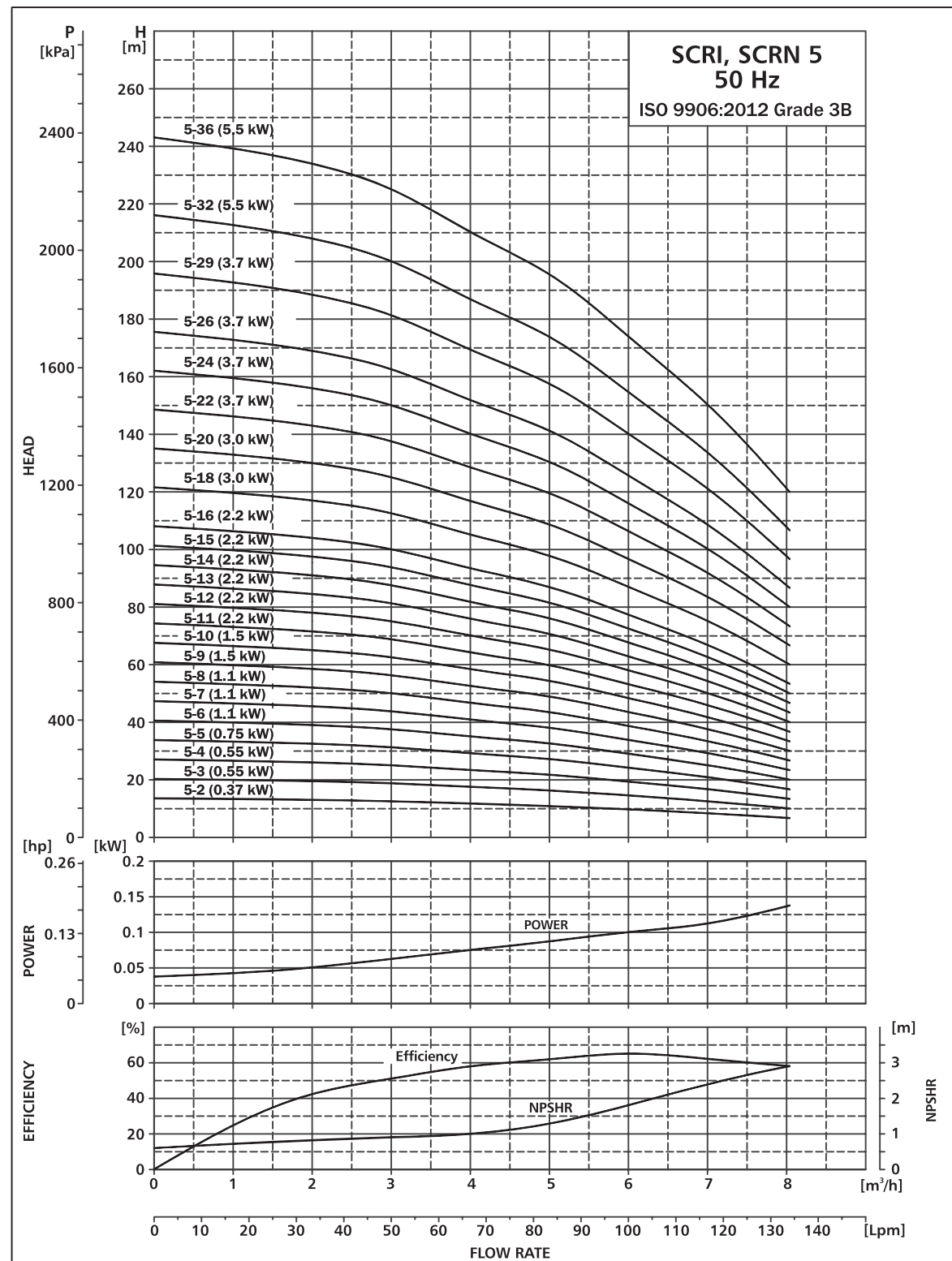
MODEL	kW	HP	Amp.	NPSH (In Mtr)	Head (Mtr)							
					0	0.7	0.8	1	1.3	1.7	2.4	2.8
					0	2	3	4	5	6	7	8
SCR 5-2	0.37	0.5	1.1		14	13	13	12	11	10	8	7
SCR 5-3	0.55	0.75	1.5		20	20	19	18	16	14	12	10
SCR 5-4	0.55	0.75	1.5		27	26	25	23	22	19	17	13
SCR 5-5	0.75	1	1.8		34	33	31	29	27	24	21	17
SCR 5-6	1.1	1.5	2.5		41	39	38	35	32	29	25	20
SCR 5-7	1.1	1.5	2.5		47	46	44	41	38	34	29	23
SCR 5-8	1.1	1.5	2.5		54	52	50	47	43	38	33	27
SCR 5-9	1.5	2	3.6		61	59	56	53	49	43	37	30
SCR 5-10	1.5	2	3.6		68	65	63	58	54	48	41	34
SCR 5-11	2.2	3	4.6		74	72	69	64	59	53	46	37
SCR 5-12	2.2	3	4.6		81	78	75	70	65	58	50	40
SCR 5-13	2.2	3	4.6		88	85	81	76	70	62	54	44
SCR 5-14	2.2	3	4.6		95	92	88	82	76	67	58	47
SCR 5-15	2.2	3	4.6		101	98	94	88	81	72	62	50
SCR 5-16	2.2	3	4.6		108	105	100	93	86	77	66	54
SCR 5-18	3	4	5.7		122	118	113	105	97	86	75	60
SCR 5-20	3	4	5.7		135	131	125	117	108	96	83	67
SCR 5-22	3.7	5	7.6		149	144	138	128	119	106	91	74
SCR 5-24	3.7	5	7.6		162	157	150	140	130	115	99	80
SCR 5-26	3.7	5	7.6		176	170	163	152	140	125	108	87
SCR 5-29	3.7	5	7.6		196	190	182	169	157	139	120	97
SCR 5-32	5.5	7.5	10.5		216	209	200	187	173	154	132	107
SCR 5-36	5.5	7.5	10.5		243	235	225	210	194	173	149	121

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

PERFORMANCE CURVE

SCRI, SCRN 5

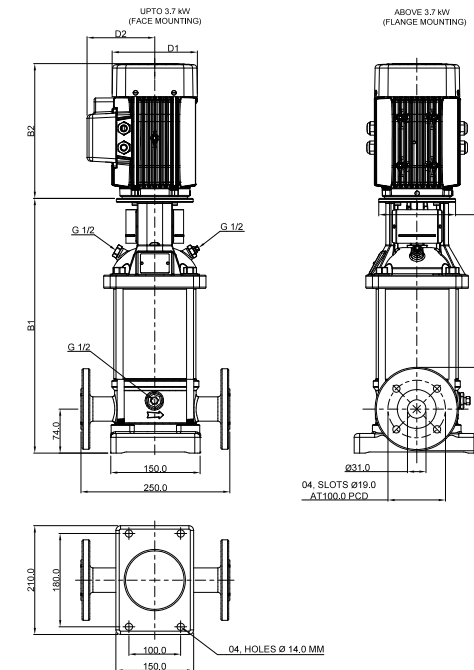
PERFORMANCE CURVES PRESSURE BOOSTING PUMP



TECHNICAL DATA

SCRI, SCRN 5

DIMENSIONAL SKETCH & PERFORMANCE



DIMENSIONS AND WEIGHT

MODEL	SIZE IN MM						WEIGHT (K.G.)
	B1	B2	B1+B2	D1	D2	D3	
SCRI, SCRN 5 - 2	360	202	562	143	130	NA	19.2
SCRI, SCRN 5 - 3	360	202	562	143	130	NA	20.1
SCRI, SCRN 5 - 4	360	202	562	143	130	NA	20.5
SCRI, SCRN 5 - 5	467	240	707	143	130	NA	23.4
SCRI, SCRN 5 - 6	467	240	707	143	130	NA	25.4
SCRI, SCRN 5 - 7	467	240	707	143	130	NA	26.1
SCRI, SCRN 5 - 8	467	240	707	143	130	NA	26.9
SCRI, SCRN 5 - 9	485	278	763	173	142	NA	33.2
SCRI, SCRN 5 - 10	584	278	862	173	142	NA	33.6
SCRI, SCRN 5 - 11	584	312	896	173	162	NA	35.9
SCRI, SCRN 5 - 12	584	312	896	173	162	NA	36.3
SCRI, SCRN 5 - 13	692	312	1004	173	162	NA	36.9
SCRI, SCRN 5 - 14	692	312	1004	173	162	NA	37.6
SCRI, SCRN 5 - 15	692	312	1004	173	162	NA	38.2
SCRI, SCRN 5 - 16	692	312	1004	173	162	NA	38.8
SCRI, SCRN 5 - 18	838	335	1173	225	182	NA	75.1
SCRI, SCRN 5 - 20	838	335	1173	225	182	NA	76.9
SCRI, SCRN 5 - 22	838	335	1173	225	182	NA	56.6
SCRI, SCRN 5 - 24	946	335	1281	225	182	NA	58.7
SCRI, SCRN 5 - 26	946	335	1281	225	182	NA	60
SCRI, SCRN 5 - 29	1108	335	1443	225	182	NA	61.9
SCRI, SCRN 5 - 32	1138	410	1548	225	135	300	76.7
SCRI, SCRN 5 - 36	1246	410	1656	225	135	300	79.3

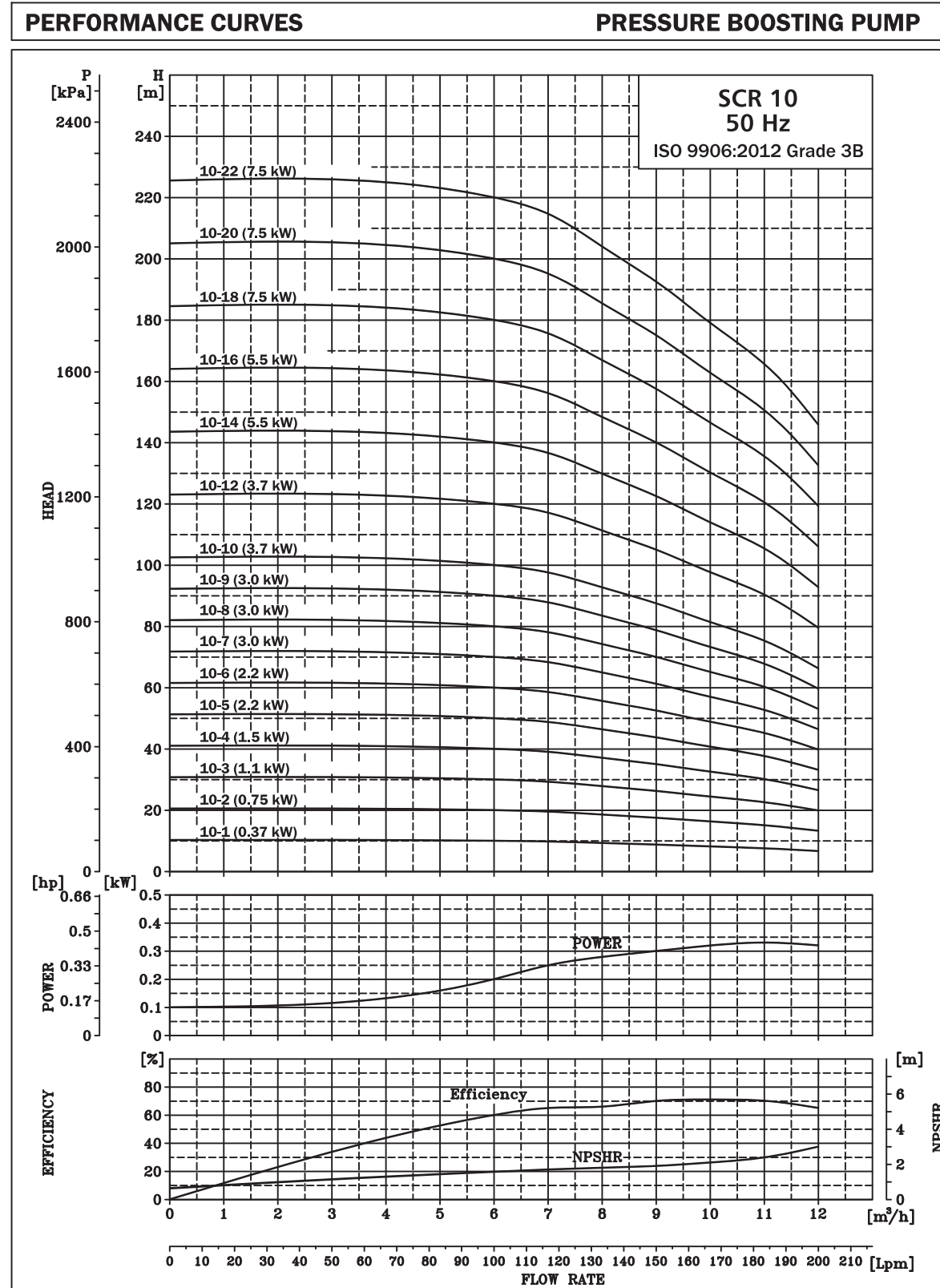
PERFORMANCE TABLE

MODEL	kW	HP	Amp.	NPSH (In Mtr)	Head (Mtr)							
					0	0.7	0.8	1	1.3	1.7	2.4	2.8
					0	2	3	4	5	6	7	8
SCRI, SCRN 5-2	0.37	0.55	1.1	14	13	13	12	11	10	8	7	
SCRI, SCRN 5-3	0.55	0.75	1.5	20	20	19	18	16	14	12	10	
SCRI, SCRN 5-4	0.55	0.75	1.5	27	26	25	23	22	19	17	13	
SCRI, SCRN 5-5	0.75	1	1.8	34	33	31	29	27	24	21	17	
SCRI, SCRN 5-6	1.1	1.5	2.5	41	39	38	35	32	29	25	20	
SCRI, SCRN 5-7	1.1	1.5	2.5	47	46	44	41	38	34	29	23	
SCRI, SCRN 5-8	1.1	1.5	2.5	54	52	50	47	43	38	33	27	
SCRI, SCRN 5-9	1.5	2	3.6	61	59	56	53	49	43	37	30	
SCRI, SCRN 5-10	1.5	2	3.6	68	65	63	58	54	48	41	34	
SCRI, SCRN 5-11	2.2	3	4.6	74	72	69	64	59	53	46	37	
SCRI, SCRN 5-12	2.2	3	4.6	81	78	75	70	65	58	50	40	
SCRI, SCRN 5-13	2.2	3	4.6	88	85	81	76	70	62	54	44	
SCRI, SCRN 5-14	2.2	3	4.6	95	92	88	82	76	67	58	47	
SCRI, SCRN 5-15	2.2	3	4.6	101	98	94	88	81	72	62	50	
SCRI, SCRN 5-16	2.2	3	4.6	108	105	100	93	86	77	66	54	
SCRI, SCRN 5-18	3	4	5.7	122	118	113	105	97	86	75	60	
SCRI, SCRN 5-20	3	4	5.7	135	131	125	117	108	96	83	67	
SCRI, SCRN 5-22	3.7	5	7.6	149	144	138	128	119	106	91	74	
SCRI, SCRN 5-24	3.7	5	7.6	162	157	150	140	130	115	99	80	
SCRI, SCRN 5-26	3.7	5	7.6	176	170	163	152	140	125	108	87	
SCRI, SCRN 5-29	3.7	5	7.6	196	190	182	169	157	139	120	97	
SCRI, SCRN 5-32	5.5	7.5	10.5	216	209	200	187	173	154	132	107	
SCRI, SCRN 5-36	5.5	7.5	10.5	243	235	225	210	194	173	149	121	

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

PERFORMANCE CURVE

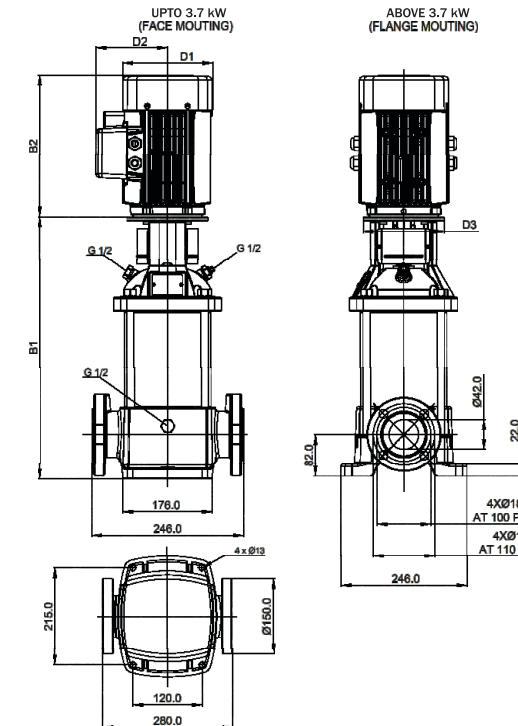
SCR 10



TECHNICAL DATA

SCR 10

DIMENSIONAL SKETCH & PERFORMANCE



DIMENSIONS AND WEIGHT

MODEL	Size in mm						Weight (k.g.)
	B1	B2	B1+B2	D1	D2	D3	
SCR 10-1	368	202	570	143	130	NA	34
SCR 10-2	368	240	608	143	130	NA	36
SCR 10-3	401	240	640.5	143	130	NA	39
SCR 10-4	450	278	728	173	142	NA	47
SCR 10-5	480	312	792	173	162	NA	49
SCR 10-6	510	312	822	173	162	NA	50
SCR 10-7	552	335	887	225	182	NA	57
SCR 10-8	585	335	920	225	182	NA	58
SCR 10-9	617	335	952	225	182	NA	59
SCR 10-10	650	335	985	225	182	NA	69
SCR 10-12	715	335	1050	225	182	NA	71
SCR 10-14	825	410	1235	225	135	300	94
SCR 10-16	890	410	1300	225	135	300	96
SCR 10-18	955	410	1365	225	135	300	109
SCR 10-20	1020	410	1430	225	135	300	112
SCR 10-22	1085	410	1495	225	135	300	114

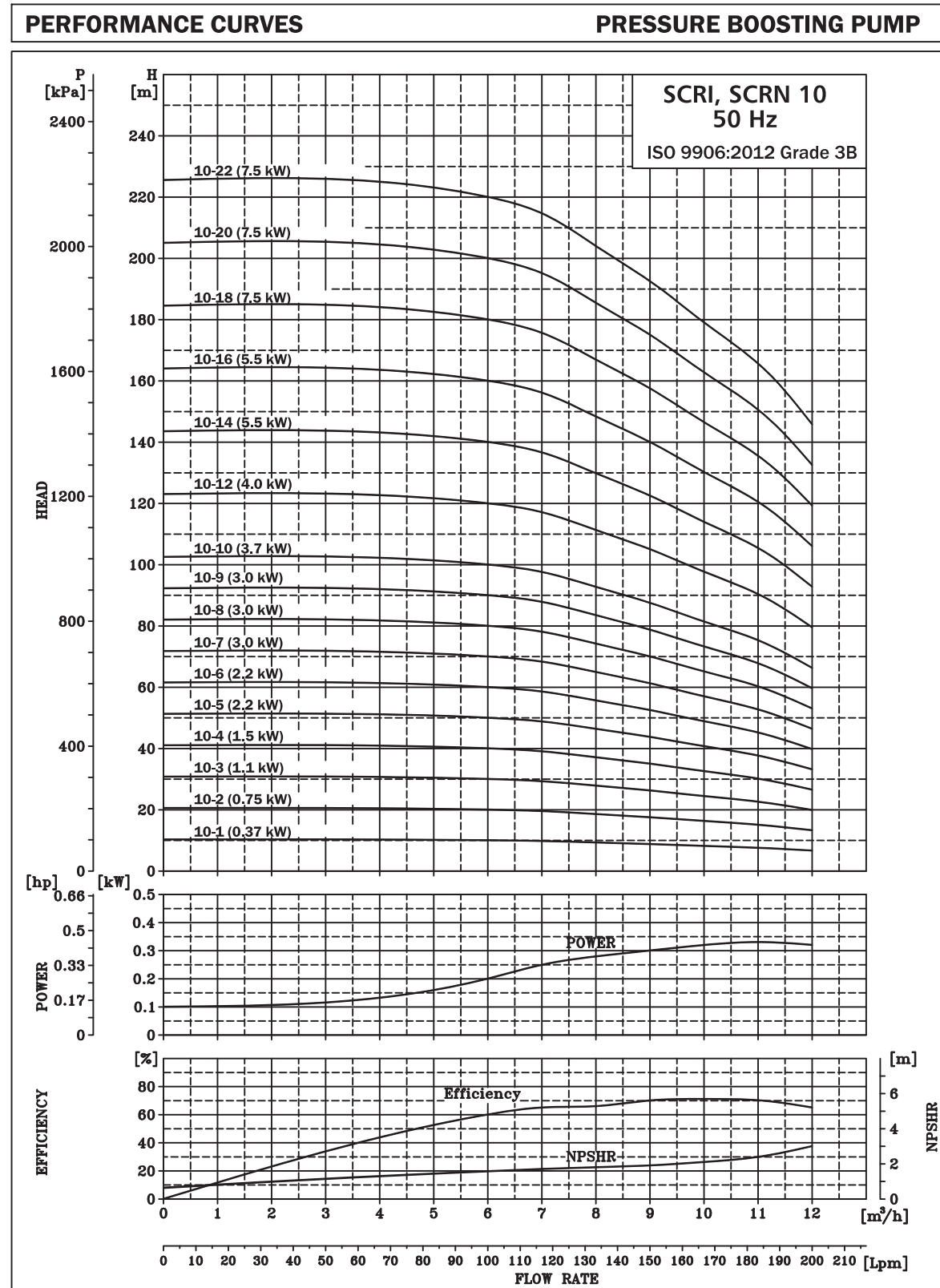
PERFORMANCE TABLE

MODEL	kW	HP	Amp.	NPSH (In Mtr)	Head (Mtr)							
					0	1.5	1.6	1.8	2	2.2	2.5	2.9
					0	6	7	8	9	10	11	12
					0	100	117	134	150	167	184	200
SCR 10-1	0.37	0.5	1.1		10	10	10	9	9	8	7	7
SCR 10-2	0.75	1	1.8		20	20	19	19	18	16	15	13
SCR 10-3	1.1	1.5	2.5		31	30	29	28	26	25	22	20
SCR 10-4	1.5	2	3.6		41	40	39	37	35	33	30	27
SCR 10-5	2.2	3	4.6		51	50	49	47	44	41	37	33
SCR 10-6	2.2	3	4.6		61	60	58	56	53	49	45	40
SCR 10-7	3	4	5.7		71	70	68	65	61	57	52	47
SCR 10-8	3	4	5.7		82	80	78	74	70	65	60	53
SCR 10-9	3	4	5.7		92	90	87	84	79	74	67	60
SCR 10-10	3.7	5	7.6		102	100	97	93	88	82	75	67
SCR 10-12	3.7	5	7.6		122	120	117	112	105	98	89	80
SCR 10-14	5.5	7.5	10.5		143	140	136	130	123	114	104	93
SCR 10-16	5.5	7.5	10.5		163	160	156	149	140	131	119	107
SCR 10-18	7.5	10	14.7		184	180	175	167	158	147	134	120
SCR 10-20	7.5	10	14.7		204	200	194	186	175	163	149	133
SCR 10-22	7.5	10	14.7		224	220	214	205	193	180	164	147

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

PERFORMANCE CURVE

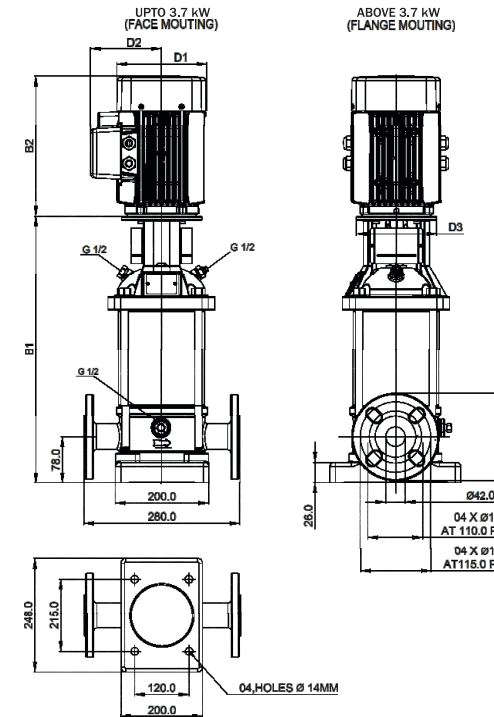
SCRI, SCR N 10



TECHNICAL DATA

SCRI, SCR N 10

DIMENSIONAL SKETCH & PERFORMANCE



DIMENSIONS AND WEIGHT

MODEL	Size in mm						Weight (k.g.)
	B1	B2	B1+B2	D1	D2	D3	
SCRI, SCR N 10 - 1	368	202	570	143	130	NA	32
SCRI, SCR N 10 - 2	368	240	608	143	130	NA	34
SCRI, SCR N 10 - 3	401	240	641	143	130	NA	37
SCRI, SCR N 10 - 4	448	278	726	173	142	NA	44
SCRI, SCR N 10 - 5	480	312	792	173	162	NA	47
SCRI, SCR N 10 - 6	513	312	825	173	162	NA	48
SCRI, SCR N 10 - 7	552	335	887	225	182	NA	54
SCRI, SCR N 10 - 8	585	335	920	225	182	NA	55
SCRI, SCR N 10 - 9	617	335	952	225	182	NA	56
SCRI, SCR N 10 - 10	650	335	985	225	182	NA	66
SCRI, SCR N 10 - 12	715	335	1050	225	182	NA	94.9
SCRI, SCR N 10 - 14	825	410	1235	225	135	300	91
SCRI, SCR N 10 - 16	890	410	1300	225	135	300	93
SCRI, SCR N 10 - 18	955	410	1365	225	135	300	99
SCRI, SCR N 10 - 20	1020	410	1430	225	135	300	101
SCRI, SCR N 10 - 22	1085	410	1495	225	135	300	103

PERFORMANCE TABLE

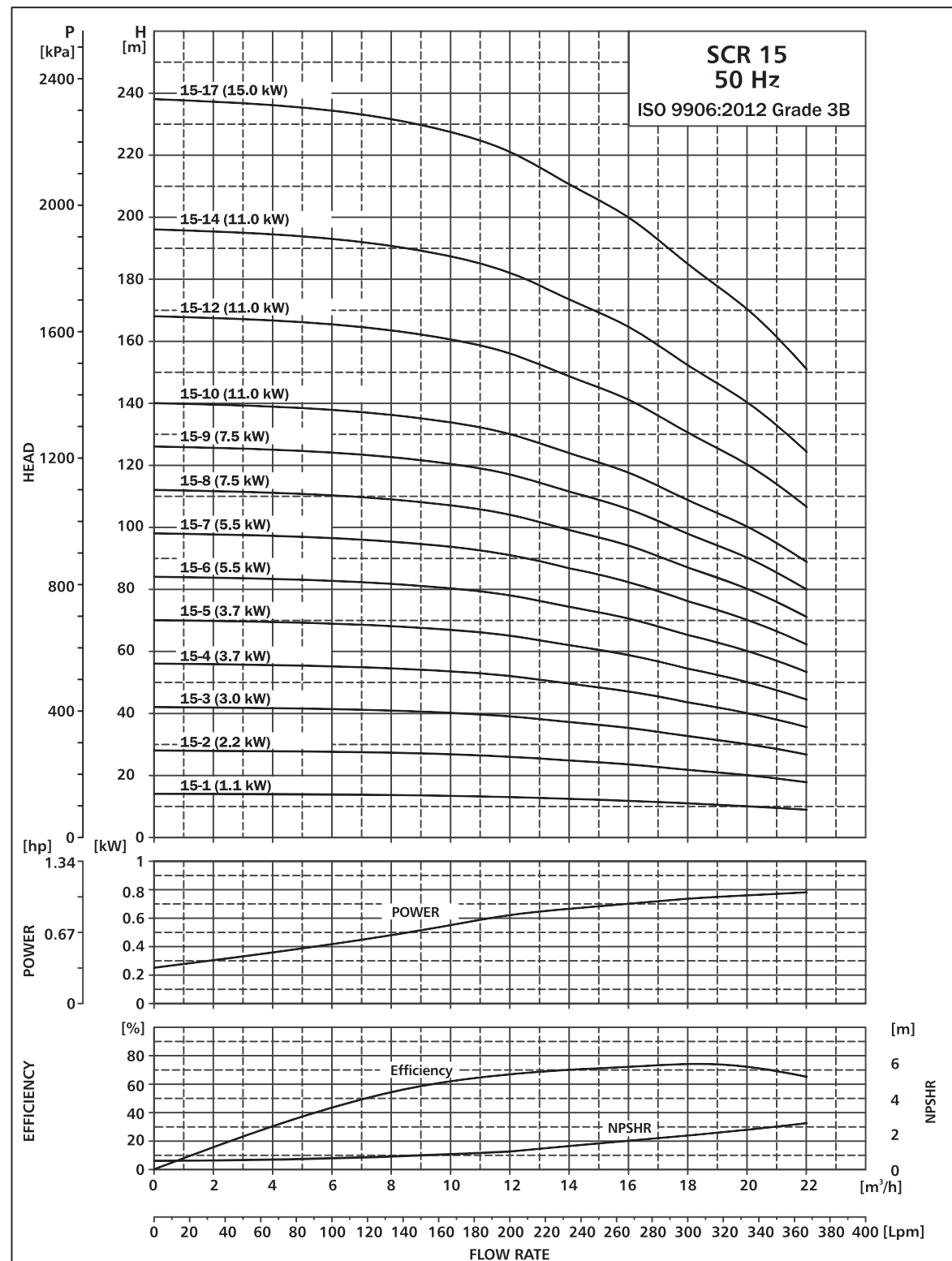
MODEL	kW	HP	Amp.	NPSH (In Mtr)	Head (Mtr)							
					0	1.5	1.6	1.8	2	2.2	2.5	2.9
					0	6	7	8	9	10	11	12
					0	100	117	134	150	167	184	200
SCRI, SCR N 10-1	0.37	0.55	1.1		10	10	10	9	9	8	7	7
SCRI, SCR N 10-2	0.75	1	1.8		20	20	19	19	18	16	15	13
SCRI, SCR N 10-3	1.1	1.5	2.5		31	30	29	28	26	25	22	20
SCRI, SCR N 10-4	1.5	2	3.6		41	40	39	37	35	33	30	27
SCRI, SCR N 10-5	2.2	3	4.6		51	50	49	47	44	41	37	33
SCRI, SCR N 10-6	2.2	3	4.6		61	60	58	56	53	49	45	40
SCRI, SCR N 10-7	3	4	5.7		71	70	68	65	61	57	52	47
SCRI, SCR N 10-8	3	4	5.7		82	80	78	74	70	65	60	53
SCRI, SCR N 10-9	3	4	5.7		92	90	87	84	79	74	67	60
SCRI, SCR N 10-10	3.7	5	7.6		102	100	97	93	88	82	75	67
SCRI, SCR N 10-12	4	6	7.6		122	120	117	112	105	98	89	80
SCRI, SCR N 10-14	5.5	7.5	10.5		143	140	136	130	123	114	104	93
SCRI, SCR N 10-16	5.5	7.5	10.5		163	160	156	149	140	131	119	107
SCRI, SCR N 10-18	7.5	10	14.7		184	180	175	167	158	147	134	120
SCRI, SCR N 10-20	7.5	10	14.7		204	200	194	186	175	163	149	133
SCRI, SCR N 10-22	7.5	10	14.7		224	220	214	205	193	180	164	147

- ◆ This performance table is approximate as a performance curve.
- ◆ Technical change without notice.

PERFORMANCE CURVE

SCR 15

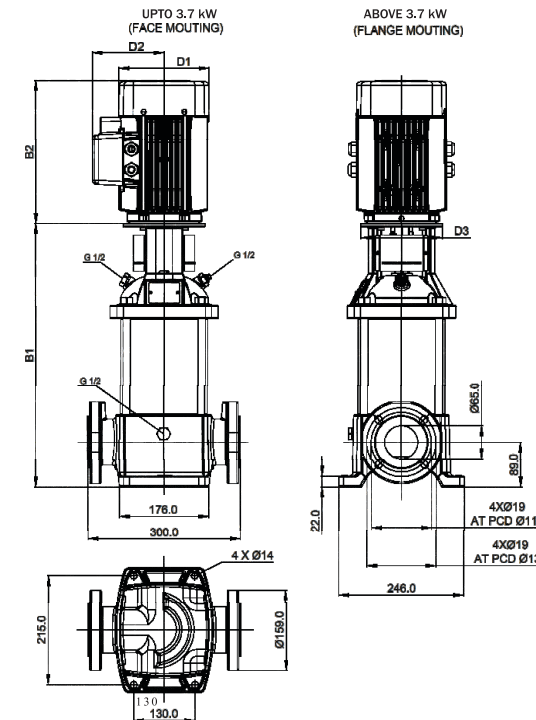
PERFORMANCE CURVES PRESSURE BOOSTING PUMP



TECHNICAL DATA

SCR 15

DIMENSIONAL SKETCH & PERFORMANCE



DIMENSIONS AND WEIGHT

MODEL	Size in mm						weight (k.g.)
	B1	B2	B1+B2	D1	D2	D3	
SCR 15-1	393	240	633	143	130	NA	42
SCR 15-2	408	312	720	173	162	NA	50
SCR 15-3	460	335	795	225	182	NA	57
SCR 15-4	509	335	844	225	182	NA	68
SCR 15-5	556	335	891	225	182	NA	69
SCR 15-6	648	410	1058	225	135	300	91
SCR 15-7	695	410	1105	225	135	300	93
SCR 15-8	742	410	1152	225	135	300	107
SCR 15-9	788	410	1198	225	135	300	108
SCR 15-10	901	570	1471	339	236	347	150
SCR 15-12	995	570	1565	339	236	347	154
SCR 15-14	1089	570	1659	339	236	347	158
SCR 15-17	1226	570	1796	339	236	347	175

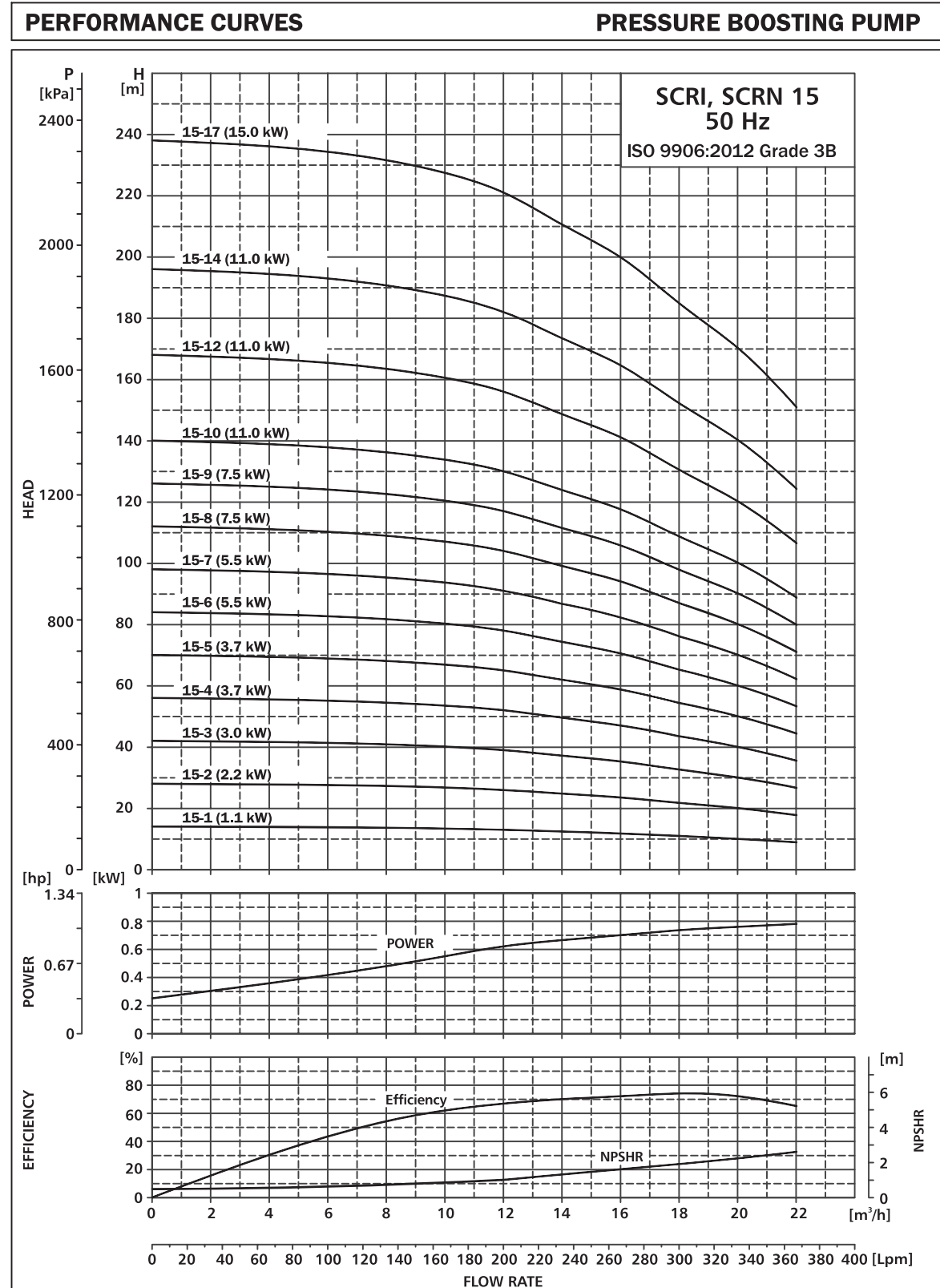
PERFORMANCE TABLE

MODEL	kW	HP	Amp.	NPSH (In Mtr)	Head (Mtr)							
					0	0.7	1	1.5	1.8	2	2.4	2.7
					0	10	12	14	16	18	20	22
SCR 15-1	1.1	1.5	2.5		14	13	13	12	12	11	10	9
SCR 15-2	2.2	3	4.6		28	27	26	25	23	22	20	18
SCR 15-3	3	4	5.7		42	40	39	37	35	33	30	27
SCR 15-4	3.7	5	7.6		56	54	52	50	47	44	40	35
SCR 15-5	3.7	5	7.6		70	67	65	62	59	55	50	44
SCR 15-6	5.5	7.5	10.5		84	80	78	74	70	65	60	53
SCR 15-7	5.5	7.5	10.5		98	94	91	87	82	76	70	62
SCR 15-8	7.5	10	14.7		112	107	104	99	94	87	80	71
SCR 15-9	7.5	10	14.7		126	121	117	112	105	98	90	80
SCR 15-10	11	15	18.8		140	134	130	124	117	109	100	89
SCR 15-12	11	15	18.8		168	161	156	149	140	131	119	106
SCR 15-14	11	15	18.8		196	188	182	174	164	153	139	124
SCR 15-17	15	20	28		238	228	221	211	199	185	169	150

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

PERFORMANCE CURVE

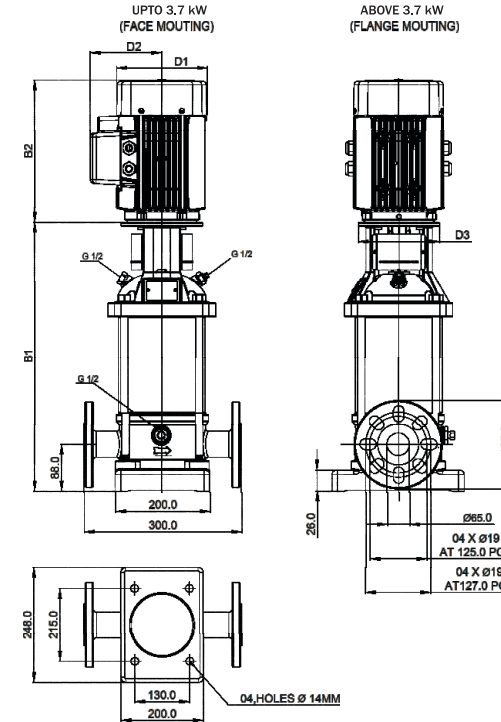
SCRI, SCRN 15



TECHNICAL DATA

SCRI, SCRN 15

DIMENSIONAL SKETCH & PERFORMANCE



DIMENSIONS AND WEIGHT

MODEL	Size in mm						weight (k.g.)
	B1	B2	B1+B2	D1	D2	D3	
SCRI, SCRN 15 - 1	399	240	639	143	130	NA	38
SCRI, SCRN 15 - 2	418	312	730	173	162	NA	47
SCRI, SCRN 15 - 3	466	335	801	225	182	NA	52
SCRI, SCRN 15 - 4	513	335	848	225	182	NA	64
SCRI, SCRN 15 - 5	560	335	895	225	182	NA	65
SCRI, SCRN 15 - 6	651	410	1061	225	135	300	87
SCRI, SCRN 15 - 7	698	410	1108	225	135	300	88
SCRI, SCRN 15 - 8	745	410	1155	225	135	300	92
SCRI, SCRN 15 - 9	792	410	1202	225	135	300	94
SCRI, SCRN 15 - 10	905	570	1475	339	236	347	126
SCRI, SCRN 15 - 12	999	570	1569	339	236	347	130
SCRI, SCRN 15 - 14	1093	570	1663	339	236	347	133
SCRI, SCRN 15 - 17	1234	570	1804	339	236	347	151

PERFORMANCE TABLE

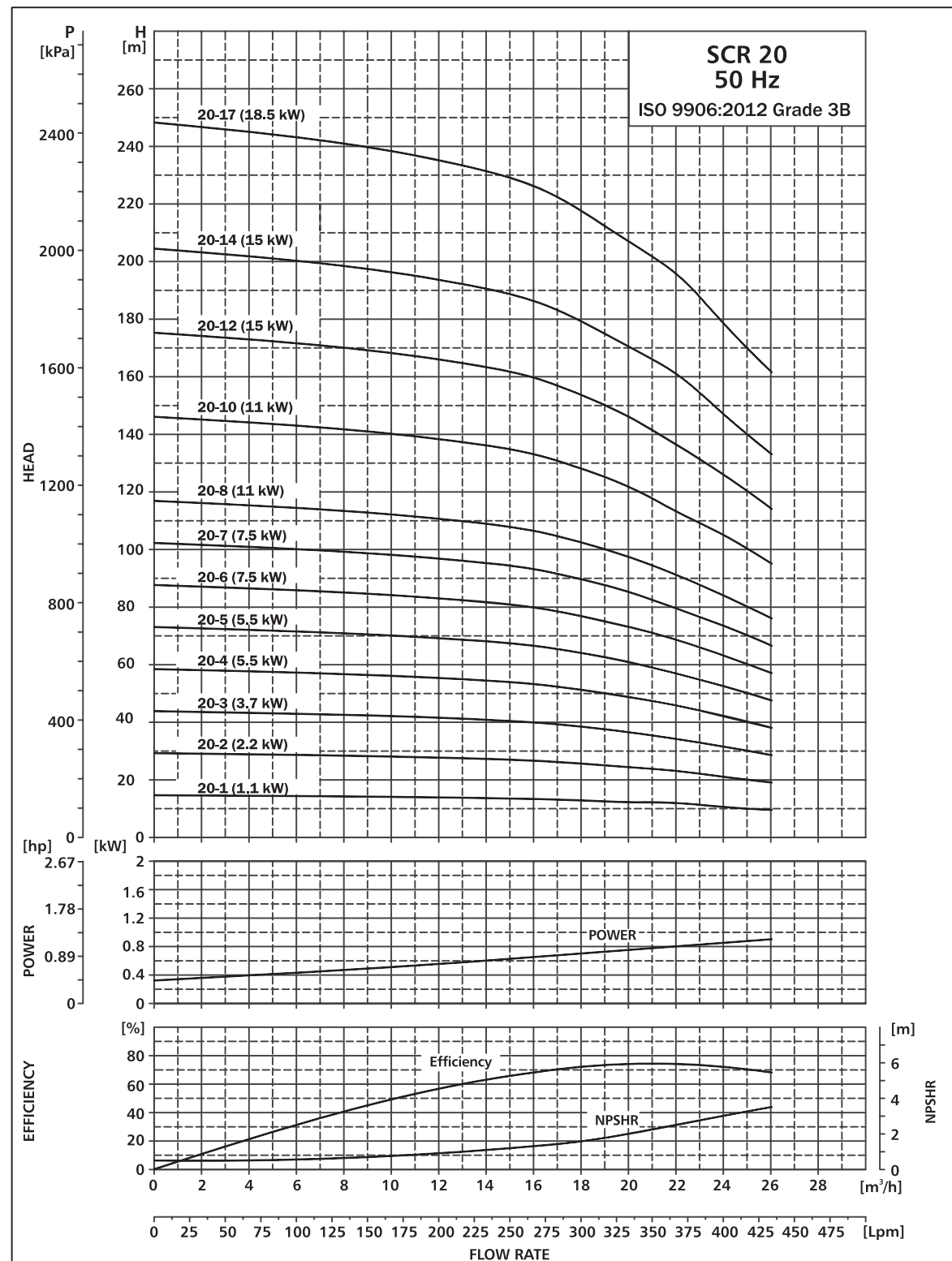
MODEL	kW	HP	Amp.	NPSH (In Mtr)	0	0.7	1	1.5	1.8	2	2.4	2.7
					0	10	12	14	16	18	20	22
					m³/h	LPM	LPM	LPM	LPM	LPM	LPM	LPM
SCRI, SCRN 15-1	1.1	1.5	2.5	Head (Mtr)	14	13	13	12	12	11	10	9
SCRI, SCRN 15-2	2.2	3	4.6		28	27	26	25	23	22	20	18
SCRI, SCRN 15-3	3	4	5.7		42	40	39	37	35	33	30	27
SCRI, SCRN 15-4	3.7	5	7.6		56	54	52	50	47	44	40	35
SCRI, SCRN 15-5	3.7	5	7.6		70	67	65	62	59	55	50	44
SCRI, SCRN 15-6	5.5	7.5	10.5		84	80	78	74	70	65	60	53
SCRI, SCRN 15-7	5.5	7.5	10.5		98	94	91	87	82	76	70	62
SCRI, SCRN 15-8	7.5	10	14.7		112	107	104	99	94	87	80	71
SCRI, SCRN 15-9	7.5	10	14.7		126	121	117	112	105	98	90	80
SCRI, SCRN 15-10	11	15	18.8		140	134	130	124	117	109	100	89
SCRI, SCRN 15-12	11	15	18.8		168	161	156	149	140	131	119	106
SCRI, SCRN 15-14	11	15	18.8		196	188	182	174	164	153	139	124
SCRI, SCRN 15-17	15	20	28		238	228	221	211	199	185	169	150

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

PERFORMANCE CURVE

SCR 20

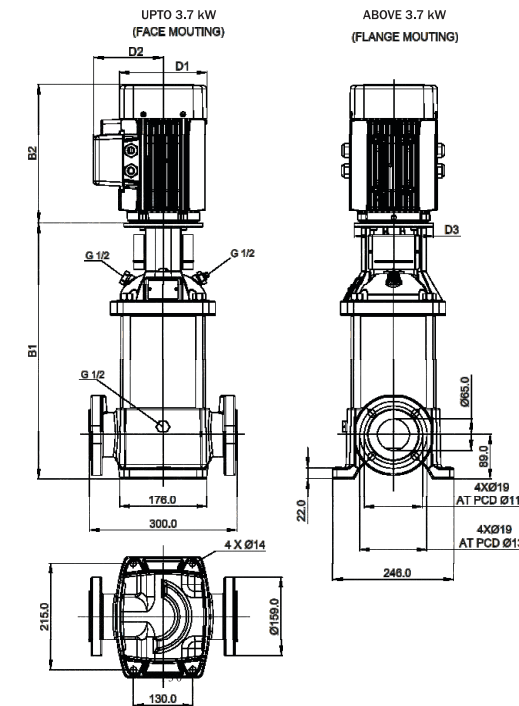
PERFORMANCE CURVES PRESSURE BOOSTING PUMP



TECHNICAL DATA

SCR 20

DIMENSIONAL SKETCH & PERFORMANCE



DIMENSIONS AND WEIGHT

MODEL	Size in mm						Weight (k.g.)
	B1	B2	B1+B2	D1	D2	D3	
SCR 20-1	393	240	633	143	130	NA	42
SCR 20-2	408	312	720	173	162	NA	50
SCR 20-3	462	335	797	225	182	NA	66
SCR 20-4	554	410	964	225	135	300	88
SCR 20-5	601	410	1011	225	135	300	90
SCR 20-6	648	410	1058	225	135	300	103
SCR 20-7	695	410	1105	225	135	300	105
SCR 20-8	807	570	1377	339	236	347	147
SCR 20-10	901	570	1471	339	236	347	150
SCR 20-12	998	570	1568	339	236	347	166
SCR 20-14	1088	570	1658	339	236	347	170
SCR 20-17	1226	570	1796	339	236	347	188

PERFORMANCE TABLE

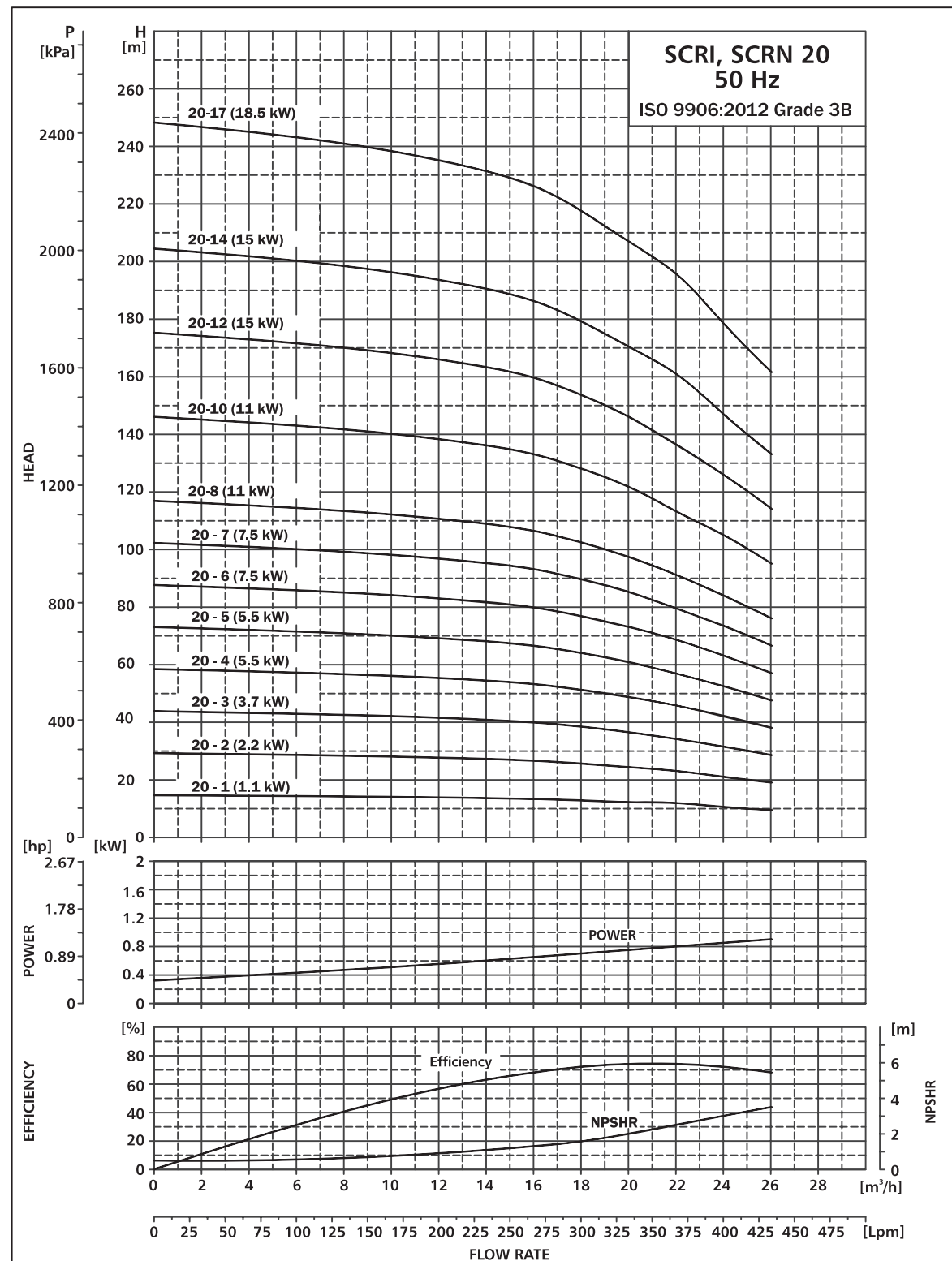
MODEL	kW	HP	Amp.	NPSH (In Mtr)	Head (Mtr)							
					0	1.1	1.3	1.5	2	2.5	3	3.5
					0	14	16	18	20	22	24	26
SCR 20-1	1.1	1.5	2.5		15	14	13	13	12	11	11	9
SCR 20-2	2.2	3	4.6		29	27	27	26	24	23	21	19
SCR 20-3	3.7	5	7.6		44	41	40	38	37	34	32	28
SCR 20-4	5.5	7.5	10.5		59	55	54	51	49	45	42	38
SCR 20-5	5.5	7.5	10.5		74	69	67	64	61	57	53	47
SCR 20-6	7.5	10	14.7		88	82	80	77	73	68	63	57
SCR 20-7	7.5	10	14.7		103	96	94	90	85	79	74	66
SCR 20-8	11	15	18.8		118	110	107	102	98	90	84	76
SCR 20-10	11	15	18.8		147	137	134	128	122	113	105	94
SCR 20-12	15	20	28		176	164	161	154	146	136	126	113
SCR 20-14	15	20	28		206	192	188	179	171	158	147	132
SCR 20-17	18.5	25	33.9		250	233	228	218	207	192	179	160

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

PERFORMANCE CURVE

SCRI, SCR N 20

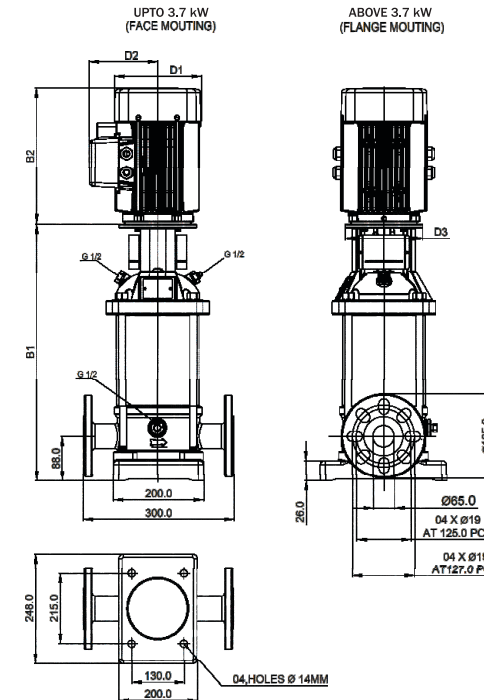
PERFORMANCE CURVES PRESSURE BOOSTING PUMP



TECHNICAL DATA

SCRI, SCR N 20

DIMENSIONAL SKETCH & PERFORMANCE



DIMENSIONS AND WEIGHT

MODEL	Size in mm						Weight (k.g.)
	B1	B2	B1+B2	D1	D2	D3	
SCRI, SCR N 20 - 1	399	240	639	143	130	NA	38
SCRI, SCR N 20 - 2	418	312	730	173	162	NA	47
SCRI, SCR N 20 - 3	466	335	801	225	182	NA	62
SCRI, SCR N 20 - 4	557	410	967	225	135	300	84
SCRI, SCR N 20 - 5	604	410	1014	225	135	300	86
SCRI, SCR N 20 - 6	651	410	1061	225	135	300	89
SCRI, SCR N 20 - 7	698	410	1108	225	135	300	91
SCRI, SCR N 20 - 8	811	570	1381	339	236	347	123
SCRI, SCR N 20 - 10	905	570	1475	339	236	347	126
SCRI, SCR N 20 - 12	999	570	1569	339	236	347	144
SCRI, SCR N 20 - 14	1092	570	1662	339	236	347	147
SCRI, SCR N 20 - 17	1233	570	1803	339	236	347	161

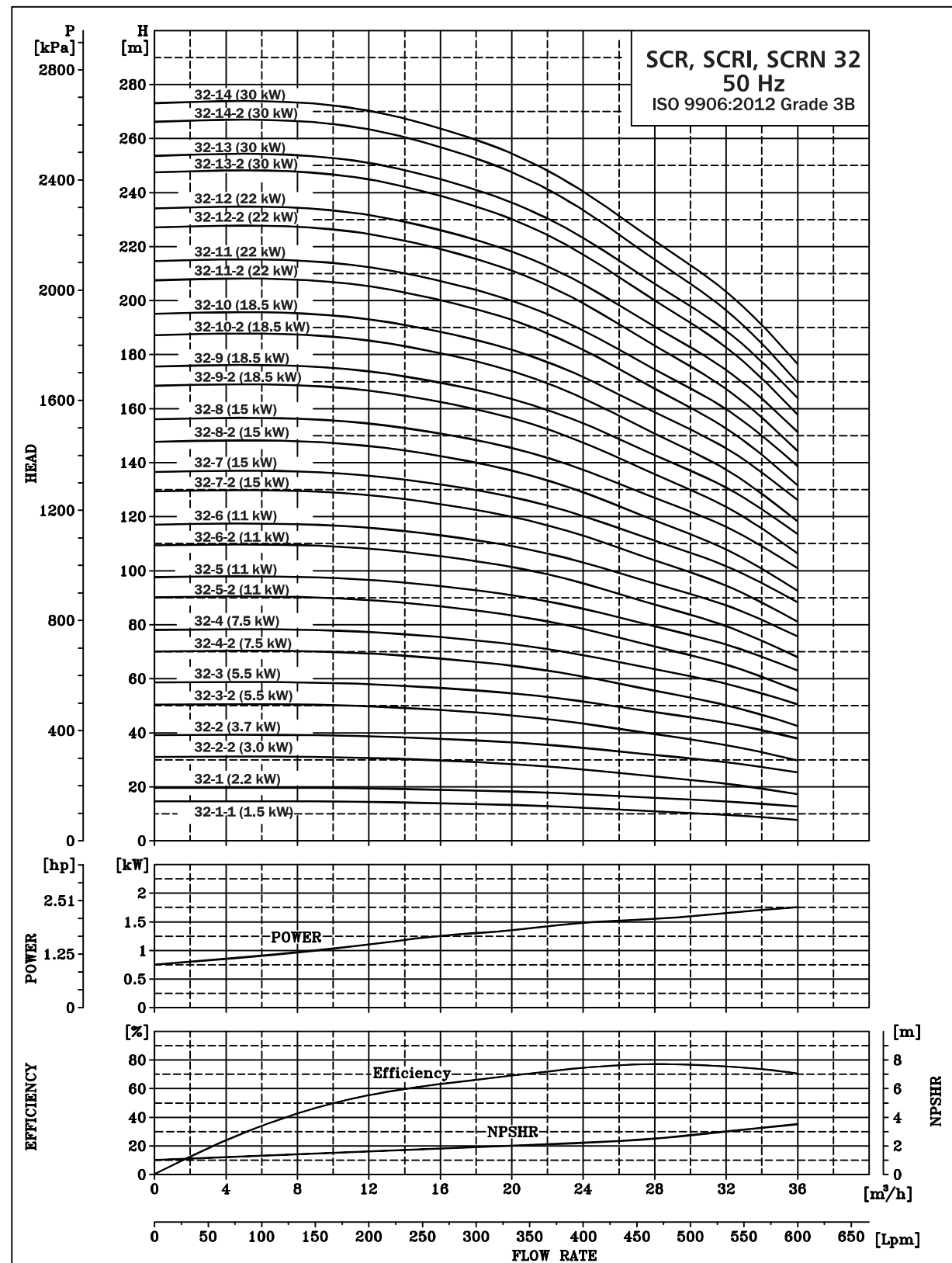
PERFORMANCE TABLE

MODEL	kW	HP	Amp.	NPSH (In Mtr)	Head (Mtr)							
					0	1.1	1.3	1.5	2	2.5	3	3.5
					0	14	16	18	20	22	24	26
SCRI, SCR N 20-1	1.1	1.5	2.5		15	14	13	13	12	11	11	9
SCRI, SCR N 20-2	2.2	3	4.6		29	27	27	26	24	23	21	19
SCRI, SCR N 20-3	3.7	5	7.6		44	41	40	38	37	34	32	28
SCRI, SCR N 20-4	5.5	7.5	10.5		59	55	54	51	49	45	42	38
SCRI, SCR N 20-5	5.5	7.5	10.5		74	69	67	64	61	57	53	47
SCRI, SCR N 20-6	7.5	10	14.7		88	82	80	77	73	68	63	57
SCRI, SCR N 20-7	7.5	10	14.7		103	96	94	90	85	79	74	66
SCRI, SCR N 20-8	11	15	18.8		118	110	107	102	98	90	84	76
SCRI, SCR N 20-10	11	15	18.8		147	137	134	128	122	113	105	94
SCRI, SCR N 20-12	15	20	28		176	164	161	154	146	136	126	113
SCRI, SCR N 20-14	15	20	28		206	192	188	179	171	158	147	132
SCRI, SCR N 20-17	18.5	25	33.9		250	233	228	218	207	192	179	160

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

PERFORMANCE CURVE

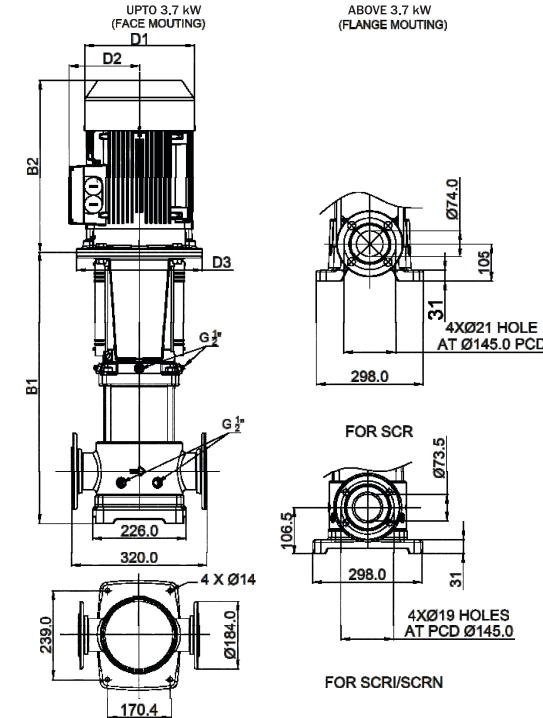
SCR, SCRI, SCRN 32



TECHNICAL DATA

SCR, SCRI, SCRN 32

DIMENSIONAL SKETCH & PERFORMANCE



DIMENSIONS AND WEIGHT

MODEL	Size in mm						Weight (k.g.)
	B1	B2	B1+B2	D1	D2	D3	
SCR, SCRI, SCRN 32 - 1 - 1	511	278	789	173	142	*	70
SCR, SCRI, SCRN 32 - 1	511	312	823	173	162	*	79
SCR, SCRI, SCRN 32 - 2 - 2	581	335	916	225	182	*	88
SCR, SCRI, SCRN 32 - 2	581	335	916	225	182	*	97
SCR, SCRI, SCRN 32 - 3 - 2	652	410	1062	225	135	300	106
SCR, SCRI, SCRN 32 - 3	652	410	1062	225	135	300	106
SCR, SCRI, SCRN 32 - 4 - 2	722	410	1132	225	135	300	115
SCR, SCRI, SCRN 32 - 4	722	410	1132	225	135	300	115
SCR, SCRI, SCRN 32 - 5 - 2	901	570	1471	339	236	347	156
SCR, SCRI, SCRN 32 - 5	901	570	1471	339	236	347	156
SCR, SCRI, SCRN 32 - 6 - 2	971	570	1541	339	236	347	160
SCR, SCRI, SCRN 32 - 6	971	570	1541	339	236	347	160
SCR, SCRI, SCRN 32 - 7 - 2	1041	570	1611	339	236	347	197
SCR, SCRI, SCRN 32 - 7	1041	570	1611	339	236	347	197
SCR, SCRI, SCRN 32 - 8 - 2	1111	570	1681	339	236	347	201
SCR, SCRI, SCRN 32 - 8	1111	570	1681	339	236	347	201
SCR, SCRI, SCRN 32 - 9 - 2	1181	570	1751	339	236	347	214
SCR, SCRI, SCRN 32 - 9	1181	570	1751	339	236	347	214
SCR, SCRI, SCRN 32 - 10 - 2	1251	570	1821	339	236	347	218
SCR, SCRI, SCRN 32 - 10	1251	570	1821	339	236	347	218
SCR, SCRI, SCRN 32 - 11 - 2	1321	580	1901	339	236	347	275
SCR, SCRI, SCRN 32 - 11	1321	580	1901	339	236	347	275
SCR, SCRI, SCRN 32 - 12 - 2	1391	580	1971	339	236	347	279
SCR, SCRI, SCRN 32 - 12	1391	580	1971	339	236	347	279
SCR, SCRI, SCRN 32 - 13 - 2	1461	650	2111	395	276	400	362
SCR, SCRI, SCRN 32 - 13	1461	650	2111	395	276	400	362
SCR, SCRI, SCRN 32 - 14 - 2	1531	650	2181	395	276	400	366
SCR, SCRI, SCRN 32 - 14	1531	650	2181	395	276	400	366

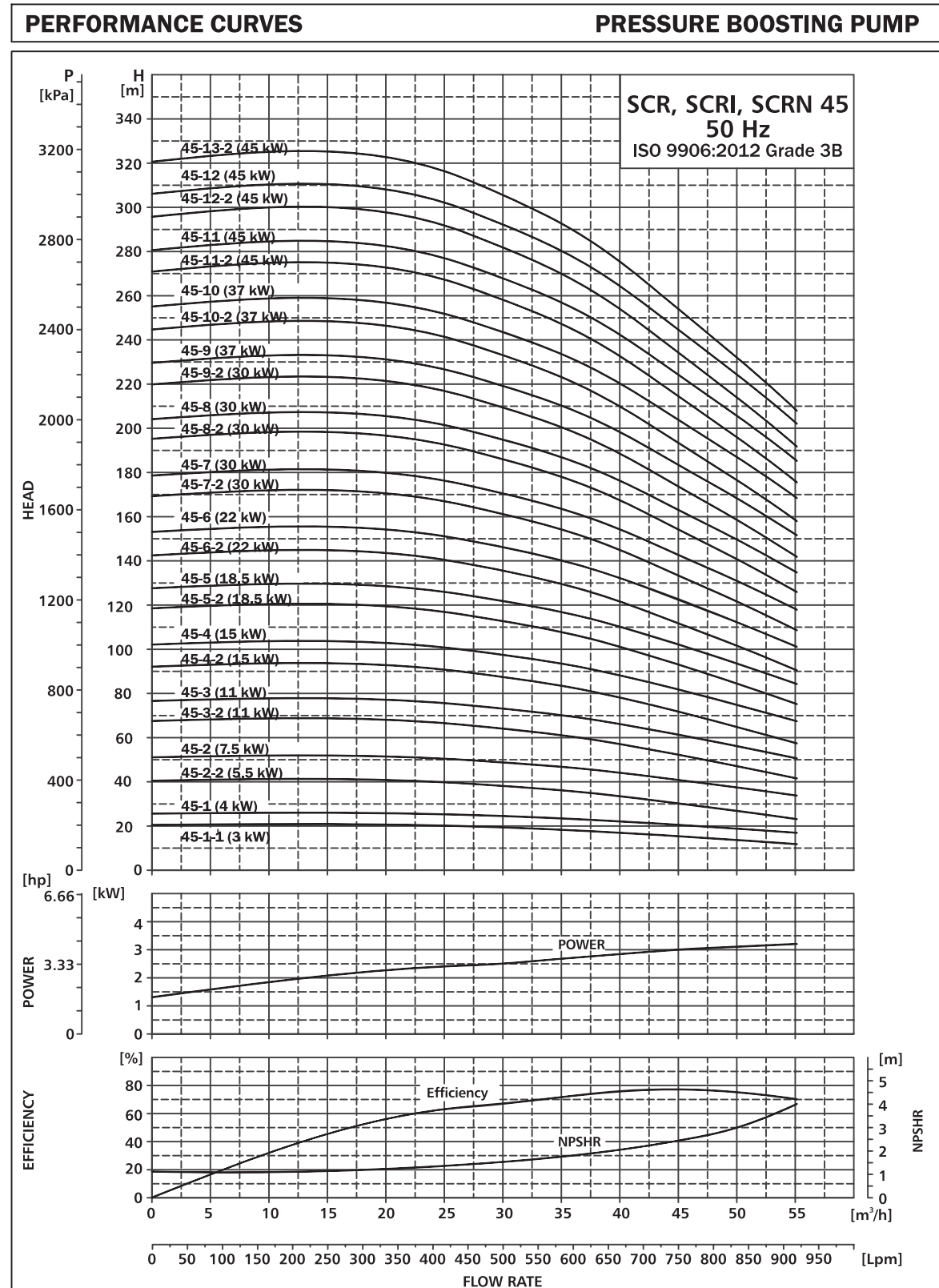
PERFORMANCE TABLE

MODEL	kW	HP	Amp.	NPSH (In Mtr)	Head (Mtr)							
					0	1.5	1.8	2	2.2	2.5	3	3.5
					0	200	267	334	400	468	534	600
SCR, SCRI, SCRN 32-1-1	1.5	2	3.6	16	15	15	14	13	11	10	8	
SCR, SCRI, SCRN 32-1	2.2	3	4.6	20	19	19	18	17	16	15	13	
SCR, SCRI, SCRN 32-2-2	3	4	5.7	32	31	30	29	27	24	20	16	
SCR, SCRI, SCRN 32-2	3.7	5	7.6	39	39	38	36	34	32	29	25	
SCR, SCRI, SCRN 32-3-2	5.5	7.5	10.5	51	51	49	47	44	40	35	29	
SCR, SCRI, SCRN 32-3	5.5	7.5	10.5	59	58	56	54	51	48	44	38	
SCR, SCRI, SCRN 32-4-2	7.5	10	14.7	70	70	68	65	61	55	51	41	
SCR, SCRI, SCRN 32-4	7.5	10	14.7	78	77	75	72	68	64	58	51	
SCR, SCRI, SCRN 32-5-2	11	15	18.8	90	90	88	84	79	72	67	57	
SCR, SCRI, SCRN 32-5	11	15	18.8	98	97	94	91	86	80	73	64	
SCR, SCRI, SCRN 32-6-2	11	15	18.8	110	110	106	102	95	87	81	68	
SCR, SCRI, SCRN 32-6	11	15	18.8	117	116	113	109	103	95	87	76	
SCR, SCRI, SCRN 32-7-2	15	20	28	130	130	126	112	120	104	96	83	
SCR, SCRI, SCRN 32-7	15	20	28	137	135	132	127	120	111	102	89	
SCR, SCRI, SCRN 32-8-2	15	20	28	148	148	144	138	131	118	110	93	
SCR, SCRI, SCRN 32-8	15	20	28	156	154	150	145	137	127	116	102	
SCR, SCRI, SCRN 32-9-2	18.5	25	33.9	169	169	163	157	148	135	128	109	
SCR, SCRI, SCRN 32-9	18.5	25	33.9	176	174	169	163	154	143	131	114	
SCR, SCRI, SCRN 32-10-2	18.5	25	33.9	187	188	182	175	167	153	139	120	
SCR, SCRI, SCRN 32-10	18.5	25	33.9	195	193	188	181	171	159	145	127	
SCR, SCRI, SCRN 32-11-2	22	30	44	208	208	201	194	185	170	158	134	
SCR, SCRI, SCRN 32-11	22	30	44	215	212	207	199	188	175	160	140	
SCR, SCRI, SCRN 32-12-2	22	30	44	227	227	220	212	201	182	171	146	
SCR, SCRI, SCRN 32-12	22	30	44	234	232	226	217	205	191	174	152	
SCR, SCRI, SCRN 32-13-2	30	40	56.4	248	249	242	233	222	205	190	161	
SCR, SCRI, SCRN 32-13	30	40	56.4	254	251	244	235	222	207	189	165	
SCR, SCRI, SCRN 32-14-2	30	40	56.4	267	268	261	251	239	217	206	175	
SCR, SCRI, SCRN 32-14	30	40	56.4	273	270	263	253	239	223	203	178	

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

PERFORMANCE CURVE

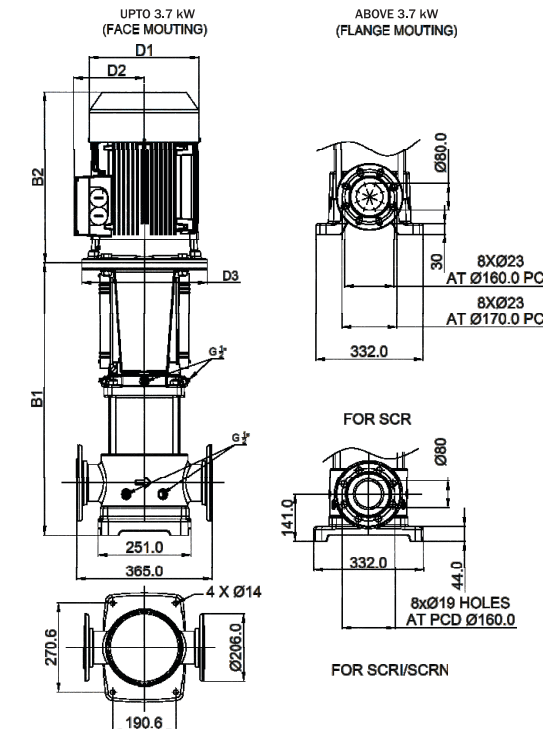
SCR, SCRI, SCRN 45



TECHNICAL DATA

SCR, SCRI, SCRN 45

DIMENSIONAL SKETCH & PERFORMANCE



DIMENSIONS AND WEIGHT

MODEL	Size in mm						Weight (k.g.)
	B1	B2	B1+B2	D1	D2	D3	
SCR, SCRI, SCRN 45 - 1 - 1	559	335	894	225	182		94
SCR, SCRI, SCRN 45 - 1	559	335	894	225	182		103
SCR, SCRI, SCRN 45 - 2 - 2	641	410	1051	225	135	300	112
SCR, SCRI, SCRN 45 - 2	641	410	1051	225	135	300	117
SCR, SCRI, SCRN 45 - 3 - 2	830	570	1400	339	236	347	158
SCR, SCRI, SCRN 45 - 3	830	570	1400	339	236	347	158
SCR, SCRI, SCRN 45 - 4 - 2	910	570	1480	339	236	347	196
SCR, SCRI, SCRN 45 - 4	910	570	1480	339	236	347	196
SCR, SCRI, SCRN 45 - 5 - 2	990	570	1560	339	236	347	209
SCR, SCRI, SCRN 45 - 5	990	570	1560	339	236	347	209
SCR, SCRI, SCRN 45 - 6 - 2	1070	580	1650	339	236	347	266
SCR, SCRI, SCRN 45 - 6	1070	580	1650	339	236	347	266
SCR, SCRI, SCRN 45 - 7 - 2	1150	650	1800	395	276	400	349
SCR, SCRI, SCRN 45 - 7	1150	650	1800	395	276	400	349
SCR, SCRI, SCRN 45 - 8 - 2	1230	650	1880	395	276	400	353
SCR, SCRI, SCRN 45 - 8	1230	650	1880	395	276	400	353
SCR, SCRI, SCRN 45 - 9 - 2	1310	650	1960	395	276	400	358
SCR, SCRI, SCRN 45 - 9	1310	650	1960	395	276	400	358
SCR, SCRI, SCRN 45 - 10 - 2	1390	650	2040	395	276	400	382
SCR, SCRI, SCRN 45 - 10	1390	650	2040	395	276	400	382
SCR, SCRI, SCRN 45 - 11 - 2	1470	695	2165	435	297	450	447
SCR, SCRI, SCRN 45 - 11	1470	695	2165	435	297	450	447
SCR, SCRI, SCRN 45 - 12 - 2	1550	695	2245	435	297	450	452
SCR, SCRI, SCRN 45 - 12	1550	695	2245	435	297	450	452
SCR, SCRI, SCRN 45 - 13 - 2	1630	695	2325	435	297	450	457

PERFORMANCE TABLE

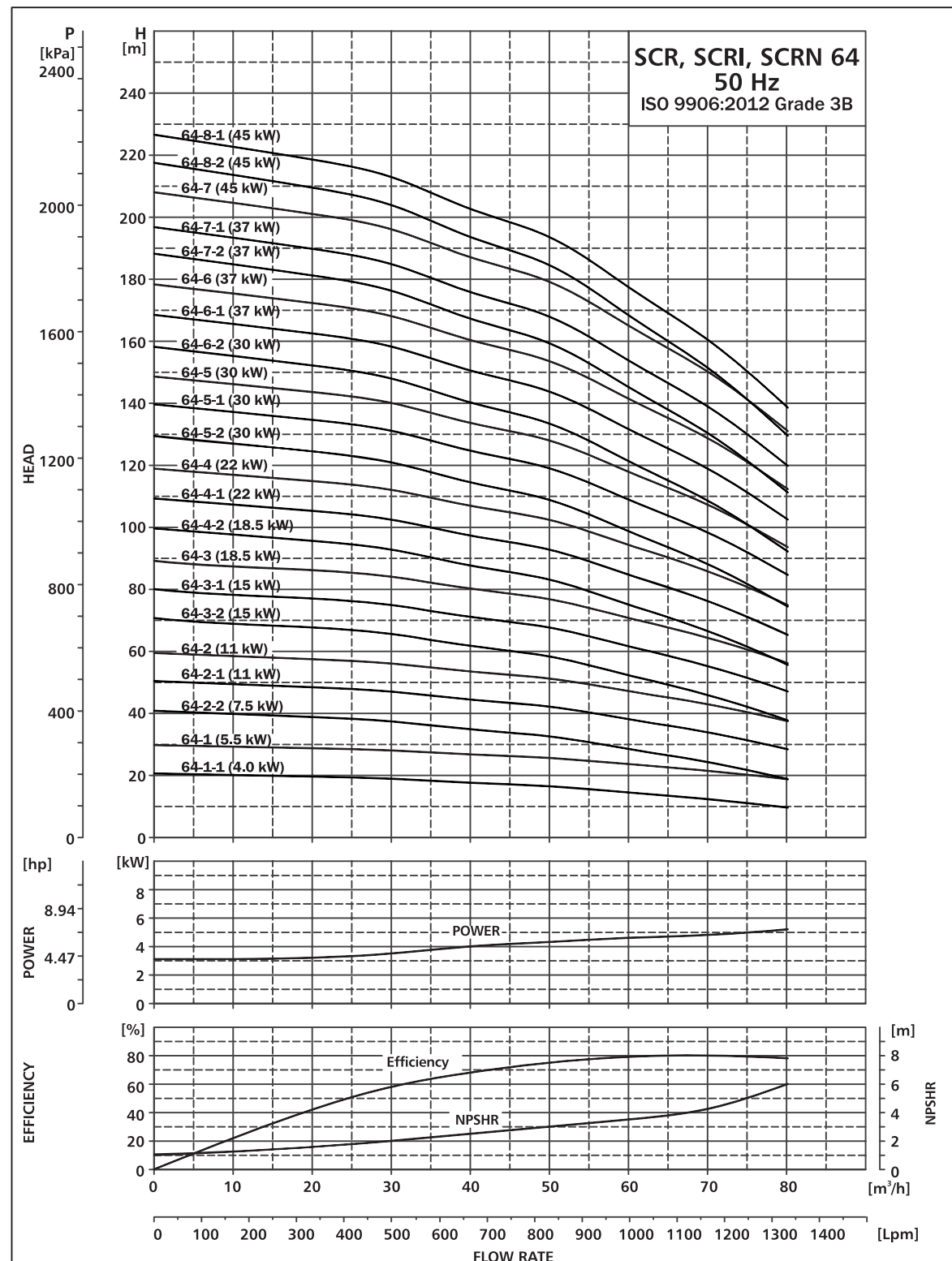
MODEL	kW	HP	Amp.	NPSH (In Mtr)	Head (Mtr)										
					0	1.4	1.6	1.8	2	2.5	3	4			
					0	25	30	35	40	45	50	55			
SCR, SCRI, SCRN 45-1-1	3	4	5.7	0	418	501	585	668	752	835	919				
SCR, SCRI, SCRN 45-1	4	5	7.6	0	21	20	19	18	16	15	13	11			
SCR, SCRI, SCRN 45-2-2	5.5	7.5	10.5	0	26	25	24	23	22	20	19	17			
SCR, SCRI, SCRN 45-2	7.5	10	14.7	0	42	41	39	37	34	30	26	24			
SCR, SCRI, SCRN 45-3-2	11	15	18.8	0	51	50	49	47	44	41	37	34			
SCR, SCRI, SCRN 45-3	11	15	18.8	0	67	66	64	61	57	52	46	42			
SCR, SCRI, SCRN 45-4-2	15	20	28	0	77	75	73	70	66	61	56	51			
SCR, SCRI, SCRN 45-4	15	20	28	0	92	91	88	84	78	72	65	60			
SCR, SCRI, SCRN 45-5-2	18.5	25	33.9	0	102	100	97	93	88	82	75	68			
SCR, SCRI, SCRN 45-5	18.5	25	33.9	0	118	116	112	107	100	92	84	77			
SCR, SCRI, SCRN 45-6-2	22	30	44	0	128	126	122	117	110	102	94	85			
SCR, SCRI, SCRN 45-6	22	30	44	0	143	142	137	130	122	113	102	95			
SCR, SCRI, SCRN 45-7-2	30	40	56.4	0	153	151	146	140	132	122	112	101			
SCR, SCRI, SCRN 45-7	30	40	56.4	0	169	168	163	156	146	136	123	114			
SCR, SCRI, SCRN 45-8-2	30	40	56.4	0	179	176	170	163	154	143	131	118			
SCR, SCRI, SCRN 45-8	30	40	56.4	0	195	193	187	179	168	156	141	132			
SCR, SCRI, SCRN 45-9-2	30	40	56.4	0	204	201	194	186	176	163	150	135			
SCR, SCRI, SCRN 45-9	37	50	68	0	220	217	210	201	189	175	158	146			
SCR, SCRI, SCRN 45-10-2	37	50	68	0	230	226	219	210	198	184	168	152			
SCR, SCRI, SCRN 45-10	37	50	68	0	245	243	236	225	212	196	178	164			
SCR, SCRI, SCRN 45-11-2	45	60	83	0	255	251	243	233	220	204	187	169			
SCR, SCRI, SCRN 45-11	45	60	83	0	272	271	264	252	238	221	201	187			
SCR, SCRI, SCRN 45-12-2	45	60	83	0	281	276	267	256	242	224	206	186			
SCR, SCRI, SCRN 45-12	45	60	83	0	296	298	228	276	261	242	220	200			
SCR, SCRI, SCRN 45-13-2	45	60	83	0	306	301	292	280	264	245	224	203			
SCR, SCRI, SCRN 45-13	45	60	83	0	322	323	313	299	282	263	238	222			

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

PERFORMANCE CURVE

SCR, SCRI, SCRN 64

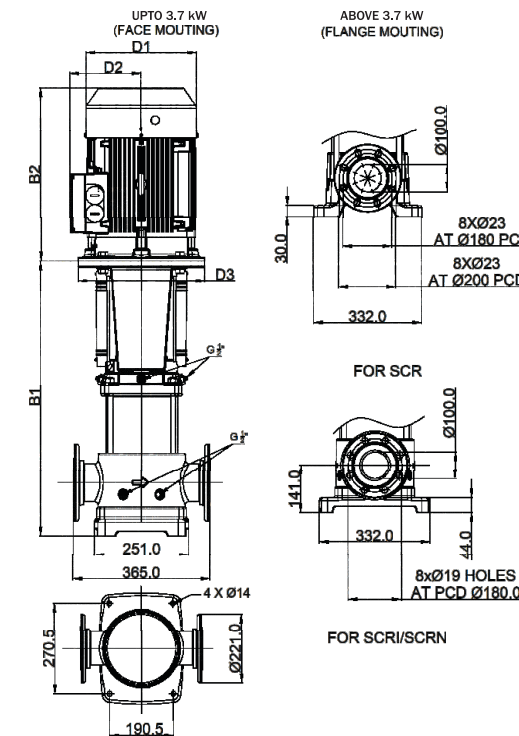
PERFORMANCE CURVES PRESSURE BOOSTING PUMP



TECHNICAL DATA

SCR, SCRI, SCRN 64

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	562	335	897	225	182	*	106
SCR, SCRI, SCRN 64 -1	563	410	973	225	135	300	160
SCR, SCRI, SCRN 64 -2 - 2	646	410	1056	225	135	300	120
SCR, SCRI, SCRN 64 -2 - 1	746	570	1316	339	236	347	120
SCR, SCRI, SCRN 64 -2	746	570	1316	339	236	347	157
SCR, SCRI, SCRN 64 -3 - 2	837	570	1407	339	236	347	157
SCR, SCRI, SCRN 64 -3 - 1	837	570	1407	339	236	347	194
SCR, SCRI, SCRN 64 -3	837	570	1407	339	236	347	194
SCR, SCRI, SCRN 64 -4 - 2	920	570	1490	339	236	347	208
SCR, SCRI, SCRN 64 -4 - 1	920	580	1500	339	236	347	208
SCR, SCRI, SCRN 64 -4	920	580	1500	339	236	347	261
SCR, SCRI, SCRN 64 -5 - 2	1002	650	1652	395	276	400	261
SCR, SCRI, SCRN 64 -5 - 1	1002	650	1652	395	276	400	344
SCR, SCRI, SCRN 64 -5	1002	650	1652	395	276	400	344
SCR, SCRI, SCRN 64 -6 - 2	1085	650	1735	395	276	400	348
SCR, SCRI, SCRN 64 -6 - 1	1085	650	1735	395	276	400	348
SCR, SCRI, SCRN 64 -6	1085	650	1735	395	276	400	368
SCR, SCRI, SCRN 64 -7 - 2	1167	650	1817	395	276	400	368
SCR, SCRI, SCRN 64 -7 - 1	1167	650	1817	395	276	400	373
SCR, SCRI, SCRN 64 -7	1167	695	1862	435	297	450	373
SCR, SCRI, SCRN 64 -8 - 2	1250	695	1945	435	297	450	442
SCR, SCRI, SCRN 64 -8 - 1	1250	695	1945	435	297	450	442

PERFORMANCE TABLE

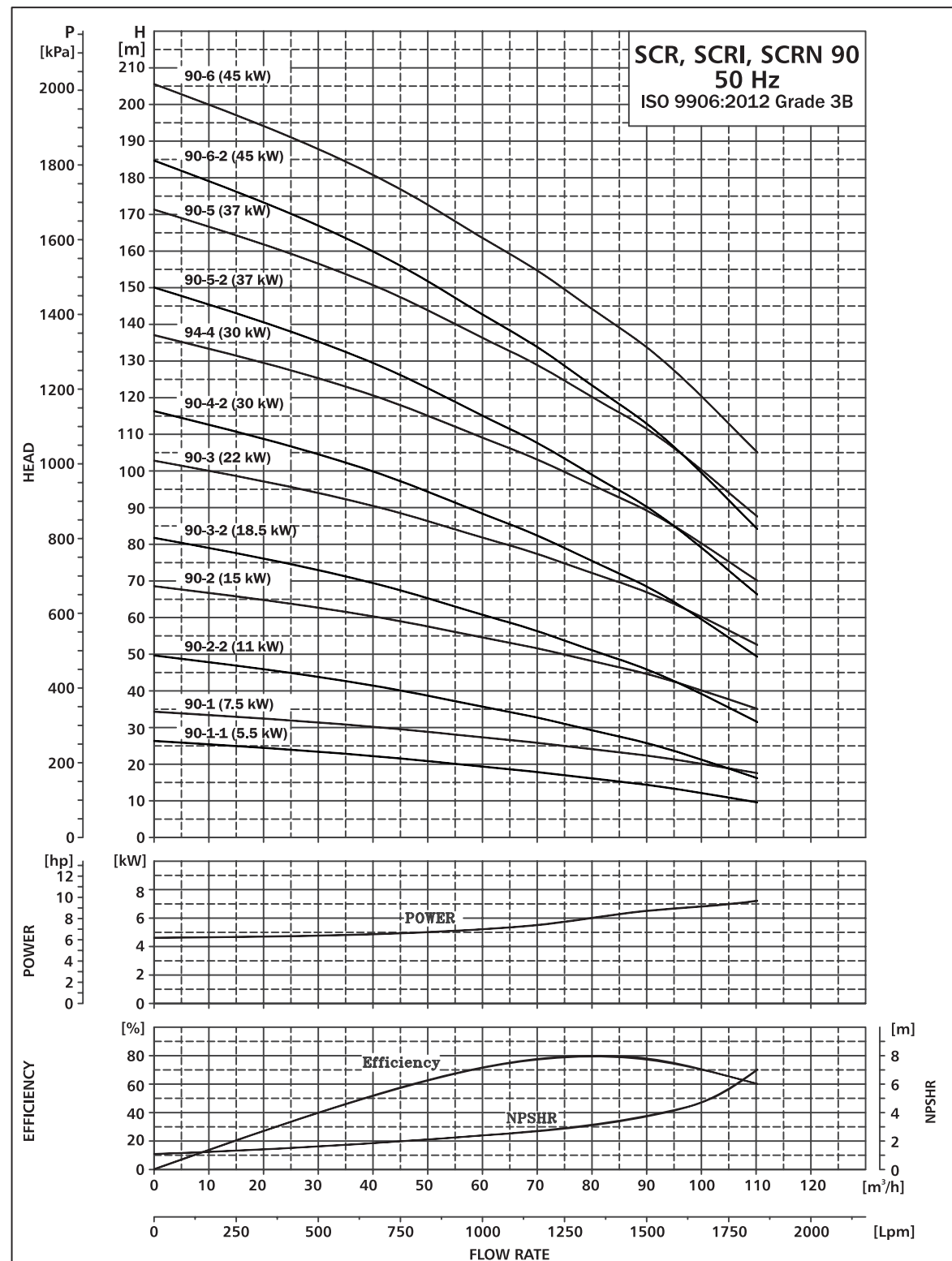
MODEL	kW	HP	Amp.	NPSH (In Mtr)	Head (Mtr)							
					0	1.6	2	2.5	3	3.5	4.5	6
					0	20	30	40	50	60	70	80
SCR, SCRI, SCRN 64-1-1	4	5	7.6	22	21	20	19	17	15	12	8	
SCR, SCRI, SCRN 64-1	5.5	7.5	10.5	30	29	28	27	26	24	21	19	
SCR, SCRI, SCRN 64-2-2	7.5	10	14.7	41	40	40	38	35	31	26	18	
SCR, SCRI, SCRN 64-2-1	11	15	18.8	51	49	47	45	42	38	34	29	
SCR, SCRI, SCRN 64-2	11	15	18.8	60	58	56	54	51	47	43	37	
SCR, SCRI, SCRN 64-3-2	15	20	28	70	69	68	65	61	55	48	39	
SCR, SCRI, SCRN 64-3-1	15	20	28	79	77	75	72	67	62	55	46	
SCR, SCRI, SCRN 64-3	18.5	25	33.9	89	86	84	80	77	71	64	56	
SCR, SCRI, SCRN 64-4-2	18.5	25	33.9	99	98	96	92	86	79	69	58	
SCR, SCRI, SCRN 64-4-1	22	30	44	109	107	104	100	95	87	78	67	
SCR, SCRI, SCRN 64-4	22	30	44	119	115	112	107	102	94	86	75	
SCR, SCRI, SCRN 64-5-2	30	40	56.4	129	128	126	122	115	106	94	80	
SCR, SCRI, SCRN 64-5-1	30	40	56.4	139	136	134	129	122	112	101	88	
SCR, SCRI, SCRN 64-5	30	40	56.4	149	144	140	134	128	118	107	94	
SCR, SCRI, SCRN 64-6-2	30	40	56.4	158	156	154	148	140	129	115	99	
SCR, SCRI, SCRN 64-6-1	37	50	68	168	165	162	156	148	137	124	107	
SCR, SCRI, SCRN 64-6	37	50	68	179	173	168	161	153	141	128	112	
SCR, SCRI, SCRN 64-7-2	37	50	68	187	185	182	176	166	153	137	118	
SCR, SCRI, SCRN 64-7-1	37	50	68	197	194	190	183	173	160	145	126	
SCR, SCRI, SCRN 64-7	45	60	83	208	201	196	187	173	165	150	131	
SCR, SCRI, SCRN 64-8-2	45	60	83	215	214	214	207	195	180	162	141	
SCR, SCRI, SCRN 64-8-1	45	60	83	225	226	222	214	203	188	169	148	

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

PERFORMANCE CURVE

SCR, SCRI, SCRN 90

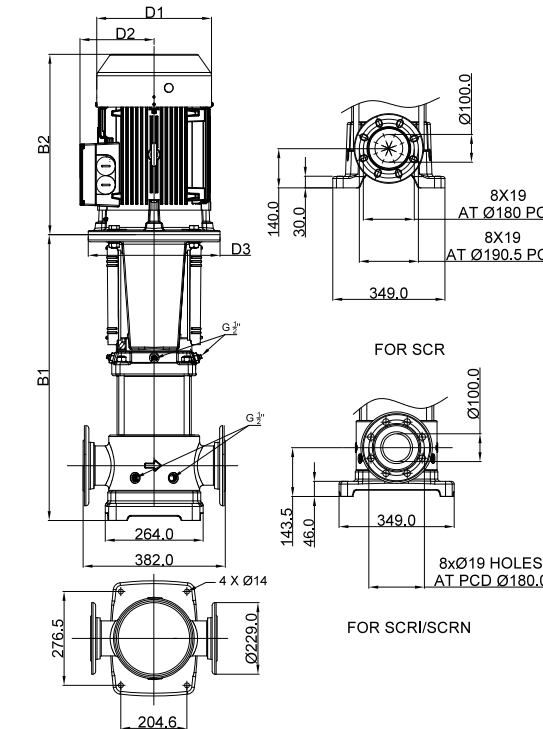
PERFORMANCE CURVES PRESSURE BOOSTING PUMP



TECHNICAL DATA

SCR, SCRI, SCRN 90

DIMENSIONAL SKETCH & PERFORMANCE



DIMENSIONS AND WEIGHT

MODEL	Size in mm						Weight (k.g.)
	B1	B2	B1+B2	D1	D2	D3	
SCR, SCRI, SCRN 90 -1 - 1	570	410	980	225	135	300	118
SCR, SCRI, SCRN 90 -1	570	410	980	225	135	300	122
SCR, SCRI, SCRN 90 -2 - 2	771	570	1341	339	236	347	164
SCR, SCRI, SCRN 90 -2	771	570	1341	339	236	347	197
SCR, SCRI, SCRN 90 -3 - 2	863	570	1433	339	236	347	211
SCR, SCRI, SCRN 90 -3	863	580	1443	339	236	347	264
SCR, SCRI, SCRN 90 -4-2	955	650	1605	395	276	400	347
SCR, SCRI, SCRN 90 -4	955	650	1605	395	276	400	372
SCR, SCRI, SCRN 90 -5-2	1047	650	1697	395	276	400	437
SCR, SCRI, SCRN 90 -5	1047	650	1697	395	276	400	512
SCR, SCRI, SCRN 90 -6-2	1139	695	1834	435	297	450	587
SCR, SCRI, SCRN 90 -6	1139	695	1834	435	297	450	587

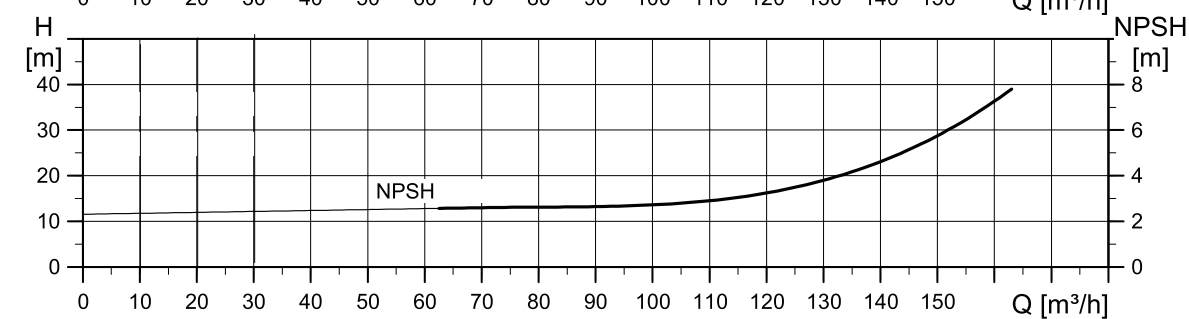
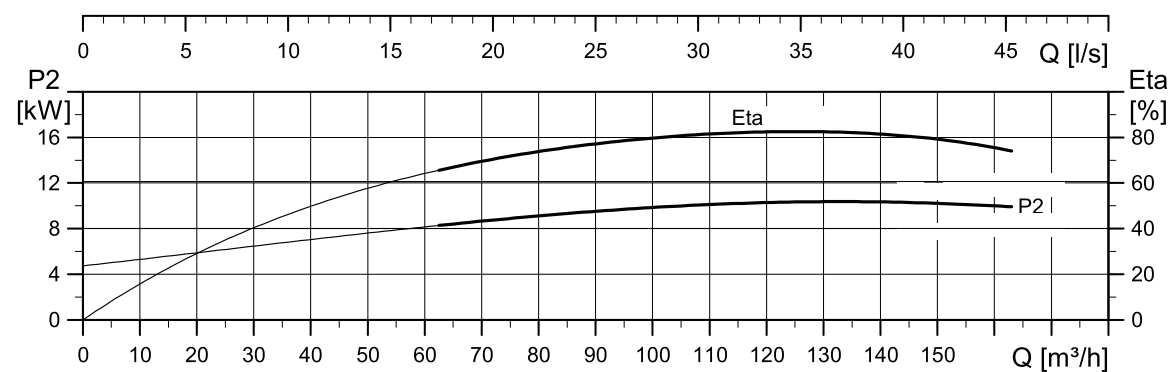
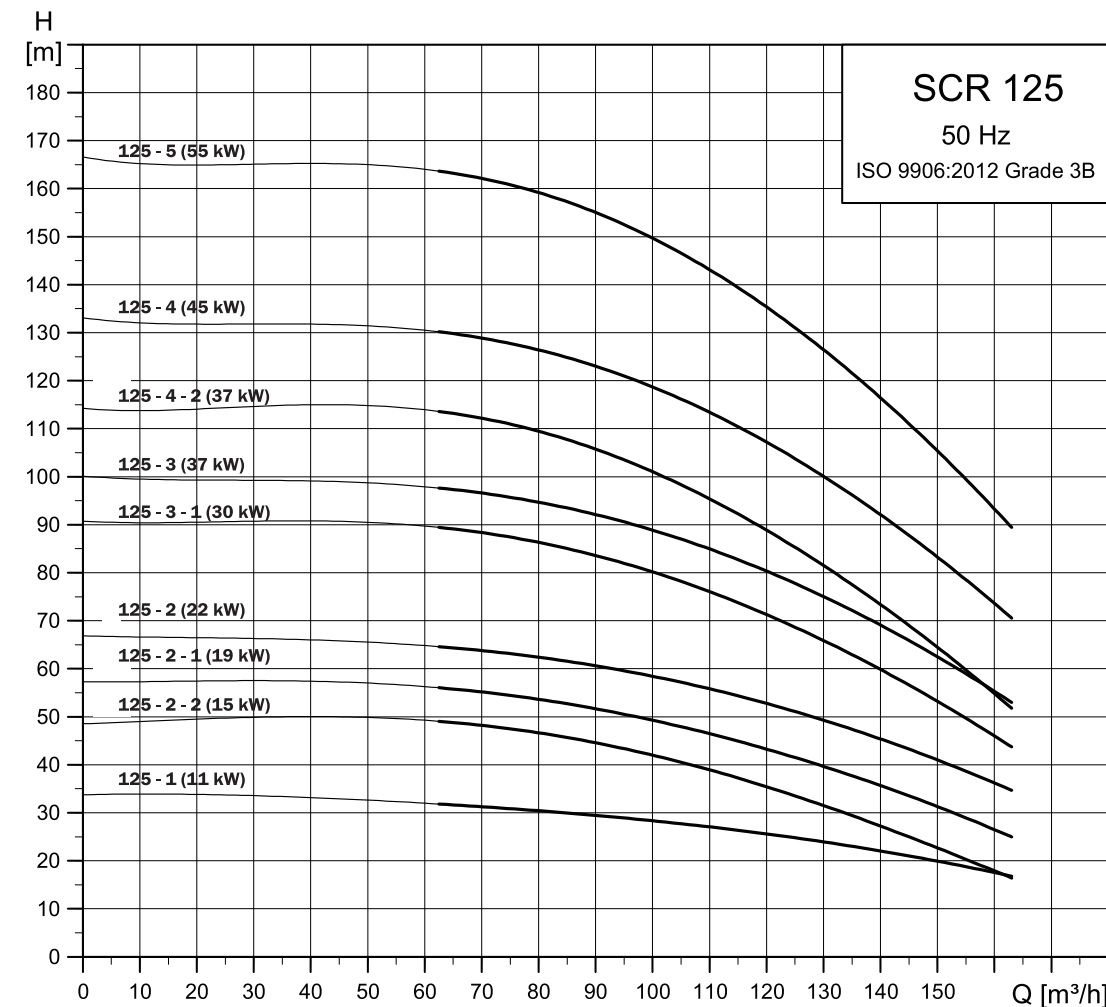
PERFORMANCE TABLE

MODEL	kW	HP	Amp.	NPSH (In Mtr)	0	2	2.5	2.8	3	3.8	4.8	7
					0	50	60	70	80	90	100	110
					m ³ /h	835	1000	1169	1336	1503	1670	1837
SCR, SCRI, SCRN 90-1-1	5.5	7.5	10.5	Head (Mtr)	26	21	20	18	16	14	10	6
SCR, SCRI, SCRN 90-1	7.5	10	14.7		34	29	27	26	24	22	20	18
SCR, SCRI, SCRN 90-2-2	11	15	18.8		48	43	41	38	34	30	24	17
SCR, SCRI, SCRN 90-2	15	20	28		69	58	55	52	48	44	40	35
SCR, SCRI, SCRN 90-3-2	18.5	25	33.9		81	72	68	64	58	52	44	35
SCR, SCRI, SCRN 90-3	22	30	44		103	86	82	77	72	67	60	53
SCR, SCRI, SCRN 90-4-2	30	40	56.4		116	102	97	91	84	76	66	54
SCR, SCRI, SCRN 90-4	30	40	56.4		137	115	109	103	96	89	80	70
SCR, SCRI, SCRN 90-5-2	37	50	68		150	131	125	118	108	98	86	72
SCR, SCRI, SCRN 90-5	37	50	68		171	144	136	129	120	111	100	88
SCR, SCRI, SCRN 90-6-2	45	60	83		185	162	154	145	135	123	108	92
SCR, SCRI, SCRN 90-6	45	60	83		206	173	164	155	144	133	120	105

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

PERFORMANCE CURVE

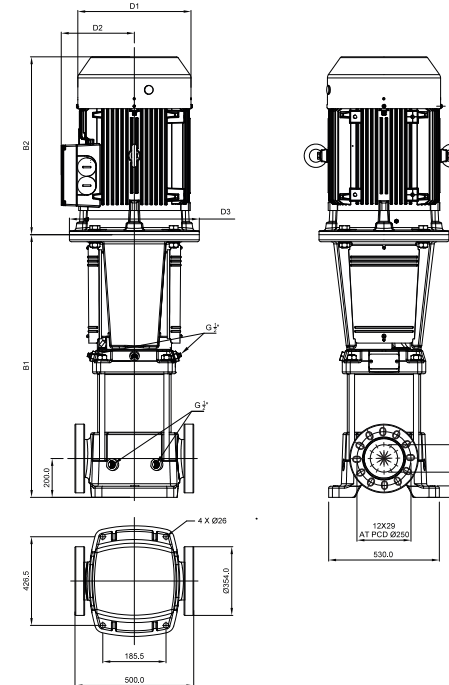
SCR 125



TECHNICAL DATA

SCR 125

DIMENSIONAL SKETCH & PERFORMANCE



DIMENSIONS AND WEIGHT

MODEL	Size in mm						Weight (k.g.)
	B1	B2	B1+B2	D1	D2	D3	
SCR 125 - 1	928	570	1498	339	236	347	191
SCR 125 - 2 - 2	1084	570	1654	339	236	347	227
SCR 125 - 2 - 1	1084	570	1654	339	236	347	241
SCR 125 - 2	1084	580	1664	339	236	347	353
SCR 125 - 3 - 1	1240	650	1890	395	276	400	392
SCR 125 - 3	1240	650	1890	395	276	400	487
SCR 125 - 4 - 2	1396	650	2046	395	276	400	627
SCR 125 - 4	1396	695	2091	435	297	450	741
SCR 125 - 5	1595	790	2385	481	319	550	741

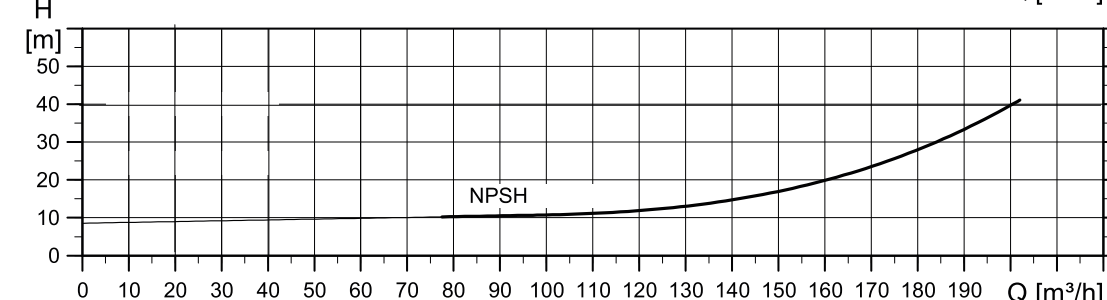
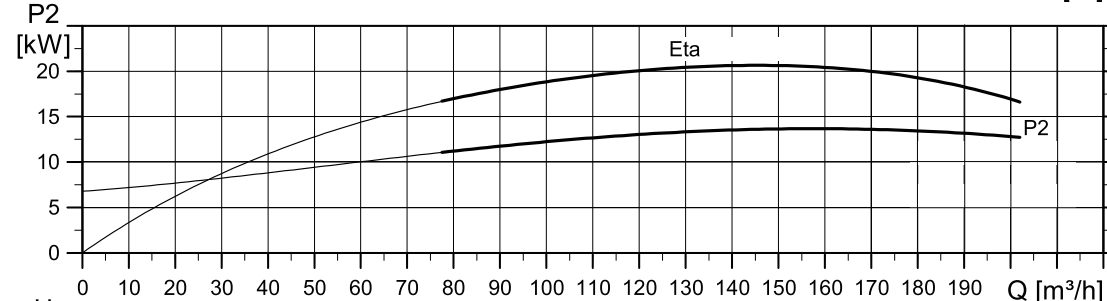
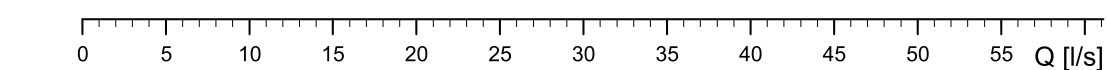
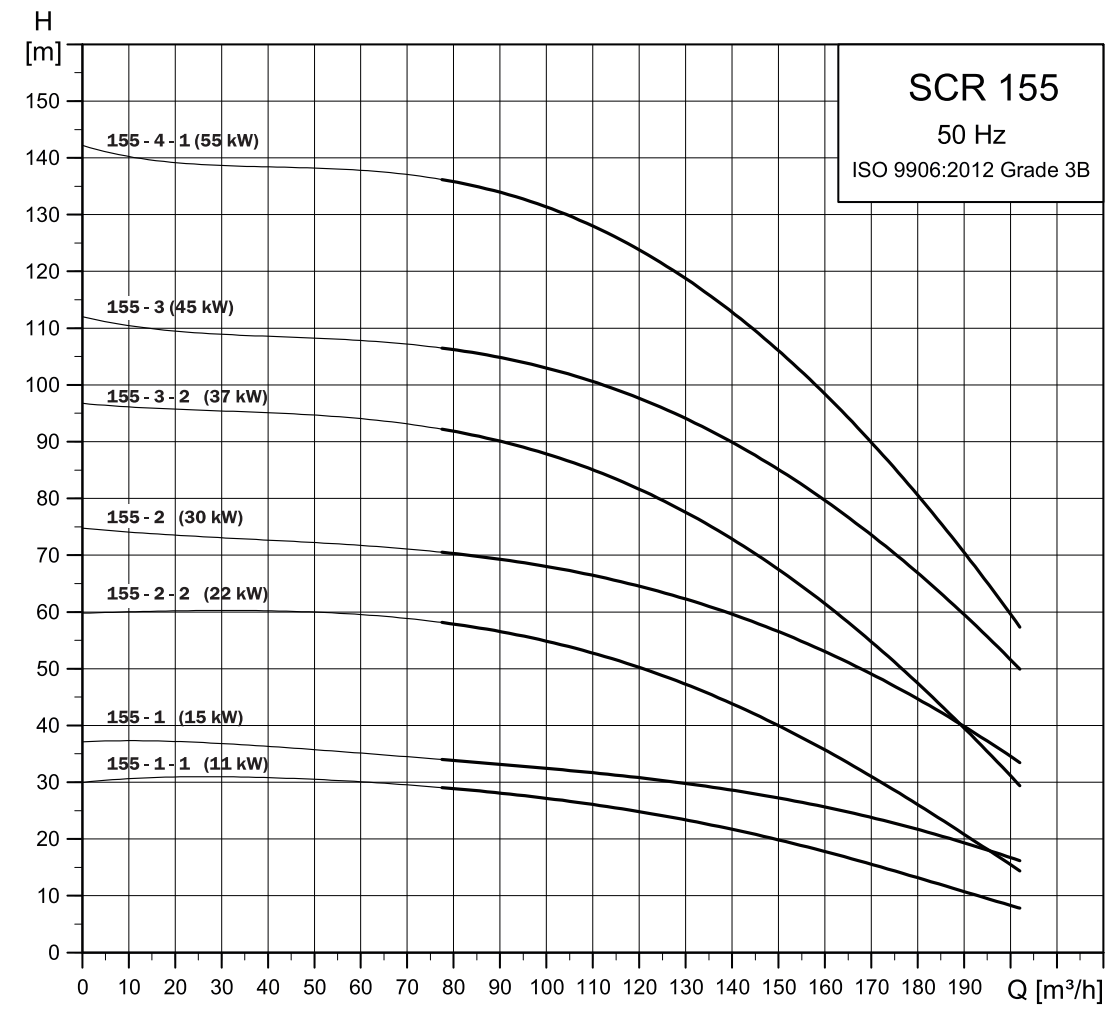
PERFORMANCE TABLE

MODEL	HP	KW	NPSH(M)	1.8	2	2	2.2	2.4	2.6	3.2	5.2	6.4
				M3/H	20	40	60	80	100	125	150	160
				0	333	667	1000	1334	1667	2084	2501	2667
SCR 125 - 1	15	11	HEAD	34	33	32	31	30	28	25	20	17
SCR 125 - 2-2	20	15		48	49	50	49	47	41	34	23	19
SCR 125 - 2-1	25	19		57	56	56	55	53	49	41	31	27
SCR 125 - 2	30	22		66	66	65	64	62	58	49	40	36
SCR 125 - 3-1	40	30		90	90	91	90	86	80	68	52	46
SCR 125 - 3	50	37		100	100	99	96	94	89	77	61	55
SCR 125 - 4-2	50	37		115	114	115	112	109	100	85	64	55
SCR 125 - 4	60	45		133	131	131	130	126	119	102	81	72
SCR 125 - 5	75	55		166	164	165	162	159	150	130	106	91

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

PERFORMANCE CURVE

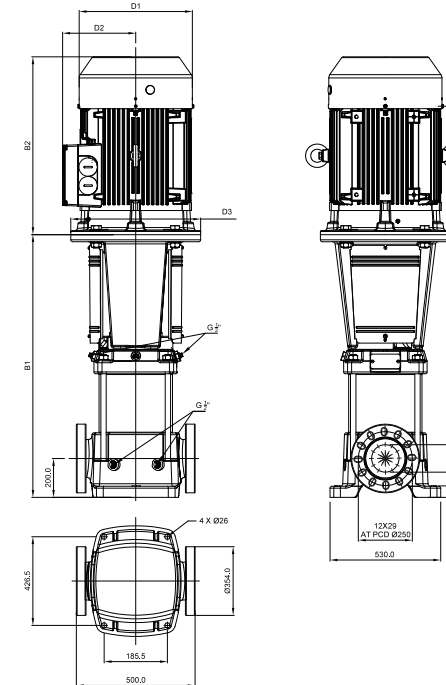
SCR 155



TECHNICAL DATA

SCR 155

DIMENSIONAL SKETCH & PERFORMANCE



DIMENSIONS AND WEIGHT

MODEL	Size in mm						Weight (k.g.)
	B1	B2	B1+B2	D1	D2	D3	
SCR 155 - 1 - 1	928	570	1498	339	236	347	191
SCR 155 - 1	928	570	1498	339	236	347	227
SCR 155 - 2 - 2	1084	580	1664	339	236	347	241
SCR 155 - 2	1084	650	1734	395	276	400	353
SCR 155 - 3 - 2	1240	650	1890	395	276	400	392
SCR 155 - 3	1240	695	1935	435	297	450	487
SCR 155 - 4 - 1	1439	790	2229	481	319	550	627

PERFORMANCE TABLE

MODEL	HP	kW	NPSH(M)	2	2.2	2.4	2.6	2.8	3	5.5	8.8
				M3/H	0	30	60	90	120	155	180
			LPM	0	500	1000	1500	2000	2584	3001	3334
SCR 155 - 1-1	15	11	HEAD	30	31	30	29	25	19	14	8
SCR 155 - 1	20	15		36	36	35	34	32	27	22	17
SCR 155 - 2-2	30	22		60	61	59	56	50	38	27	18
SCR 155 - 2	40	30		75	73	72	69	66	55	44	35
SCR 155 - 3-2	50	37		96	95	94	90	82	65	48	31
SCR 155 - 3	60	45		112	109	108	105	98	82	68	49
SCR 155 - 4-1	75	55		142	139	139	135	124	103	81	60

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

8. 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, SCR N 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.

SCR N

SCR N pumps are suitable for industrial fluids. Use SCR N 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)

PUMPED FLUIDS

Pumped liquid	Chemical formula	Note	Liquid concentration, liquid temperature	SCR	SCRN
Acetic acid	CH ₃ COOH		5%, 20 °C		HQQE
Acetone	CH ₃ COCH ₃	1, F	100 %, 20 °C	-	HQQE
Alkaline degreasing agent		D, F	-	HQQE	-
Ammonium bicarbonate	NH ₄ HCO ₃	E	20 %, 30 °C	-	HQQE
Ammonium hydroxide	NH ₄ OH	-	20 %, 40 °C	HQQE	-
Aviation fuel		1, 3, 4, F	100 %, 20 °C	HQB	-
Benzoic acid	C ₆ H ₅ COOH	H	0.5 %, 20 °C	-	HQQV
Boiler water		-	< 120 °C	HQQE	-
		F	120-180 °C	-	-
Calcareous water		-	< 90 °C	HQQE	-
Calcium acetate (as coolant with inhibitor)	Ca(CH ₃ COO) ₂	D, E	30 %, 50 °C	HQQE	-
Calcium hydroxide	Ca(OH) ₂	E	Saturated solution, 50 °C	HQQE	-
Chloride-containing water		F	< 30 °C, maximum 500 ppm	-	HQQE
Chromic acid	H ₂ CrO ₄	H	1 %, 20 °C	-	HQQV
Citric acid	HOC(CH ₂ CO ₂ H) ₂ COOH	H	5 %, 40 °C	-	HQQE
Completely desalinated water (demineralised water)		-	120 °C	-	HQQE
Condensate		-	120 °C	HQQE	-
Copper sulphate	CuSO ₄	E	10 %, 50 °C	-	HQQE
Corn oil		D, E, 3	100 %, 80 °C	HQQV	-
Diesel oil		2, 3, 4, F	100 %, 20 °C	HQB	-
Domestic hot water (potable water)		-	< 120 °C	HQQE	-
Ethanol (ethyl alcohol)	C ₂ H ₅ OH	1, F	100 %, 20 °C	HQQE	-
Ethylene glycol	HOCH ₂ CH ₂ OH	D, E	50 %, 50 °C	HQQE	-
Formic acid	HCOOH	-	5 %, 20 °C	-	HQQE
Glycerine (glycerol)	OHCH ₂ CH(OH)CH ₂ OH	D, E	50 %, 50 °C	HQQE	-
Hydraulic oil (mineral)		E, 2, 3	100 %, 100 °C	HQQV	-
Hydraulic oil (synthetic)		E, 2, 3	100 %, 100 °C	HQQV	-
Isopropyl alcohol	CH ₃ CHOHCH ₃	1, F	100 %, 20 °C	HQQE	-
Lactic acid	CH ₃ CH(OH)COOH	E, H	10 %, 20 °C	-	HQQV
Linoleic acid	C ₁₇ H ₃₁ COOH	E, 3	100 %, 20 °C	HQQV	-
Methanol (methyl alcohol)	CH ₃ OH	1, F	100 %, 20 °C	HQQE	-
Motor oil		E, 2, 3	100 %, 80 °C	HQQV	-
Naphthalene	C ₁₀ H ₈	E, H	100 %, 80 °C	HQQV	-
Nitric acid	HNO ₃	F	1 %, 20 °C	-	HQQE
Oil-containing water		-	< 100 °C	HQQV	-
Olive oil		D, E, 3	100 %, 80 °C	HQQV	-
Oxalic acid	(COOH) ₂	H	1 %, 20 °C	-	HQQE

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 & pump performance.

F Pump selection depends on many factors. Contact Shakti.

H Risk of crystallization / precipitation in shaft seal.

1 Highly flammable liquid. 2 Combustible liquid.

3 Insoluble in water. 4 Low self-ignition point.

PUMPED FLUIDS

9. CUSTOMIZE PUMP VARIANTS

The variants are available on request.

Shakti SCR, SCRI, SCRN product range offers a number of pumps for different applications, customers require specific pump solutions to satisfy their needs.

Below please find the range of options available for customising the SCR pumps to meet the customers' demands.

Contact Shakti for further information or for requests other than the ones mentioned below.

Motors

Variant	Description
Motor with thermal protection	We offer motors with built-in bimetallic thermal switches or temperature-controlled PTC sensors (thermistors) incorporated in the motor windings.
Oversize motor	Ambient temperatures above 40 °C or installation at altitudes of more than 1000 metres above sea level require the use of an oversize motor (that is derating).
4-pole motor	We offer 4-pole standard motors.

Shaft seals

Variant	Description
Shaft seal with FFKM / AFLAS O-ring	We recommend shaft seals with FFKM / FXM / AFLAS (FEPM) O-ring for applications where the pumped liquid may damage the standard O-ring material.
Air-cooled shaft seal system	We recommend this for applications involving extremely high temperatures. No conventional mechanical shaft seal can withstand liquid temperatures of up to 180 °C for any length of time. For such applications, we recommend Shakti' unique air-cooled shaft seal system. In order to ensure a low liquid temperature around the standard shaft seal, the pump is fitted with a special air-cooled shaft seal chamber. No separate cooling is required.
Double seal with pressure chamber	We recommend this for applications involving poisonous or explosive liquids. It protects the surrounding environment and the people working in the vicinity of the pump. It consists of two seals mounted in a "back-to-back" arrangement inside a separate pressure seal chamber. As the pressure in the chamber is higher than the pump pressure, leakage is prevented. A dosing pump or a special pressure intensifier generates the seal chamber pressure.

Pumps

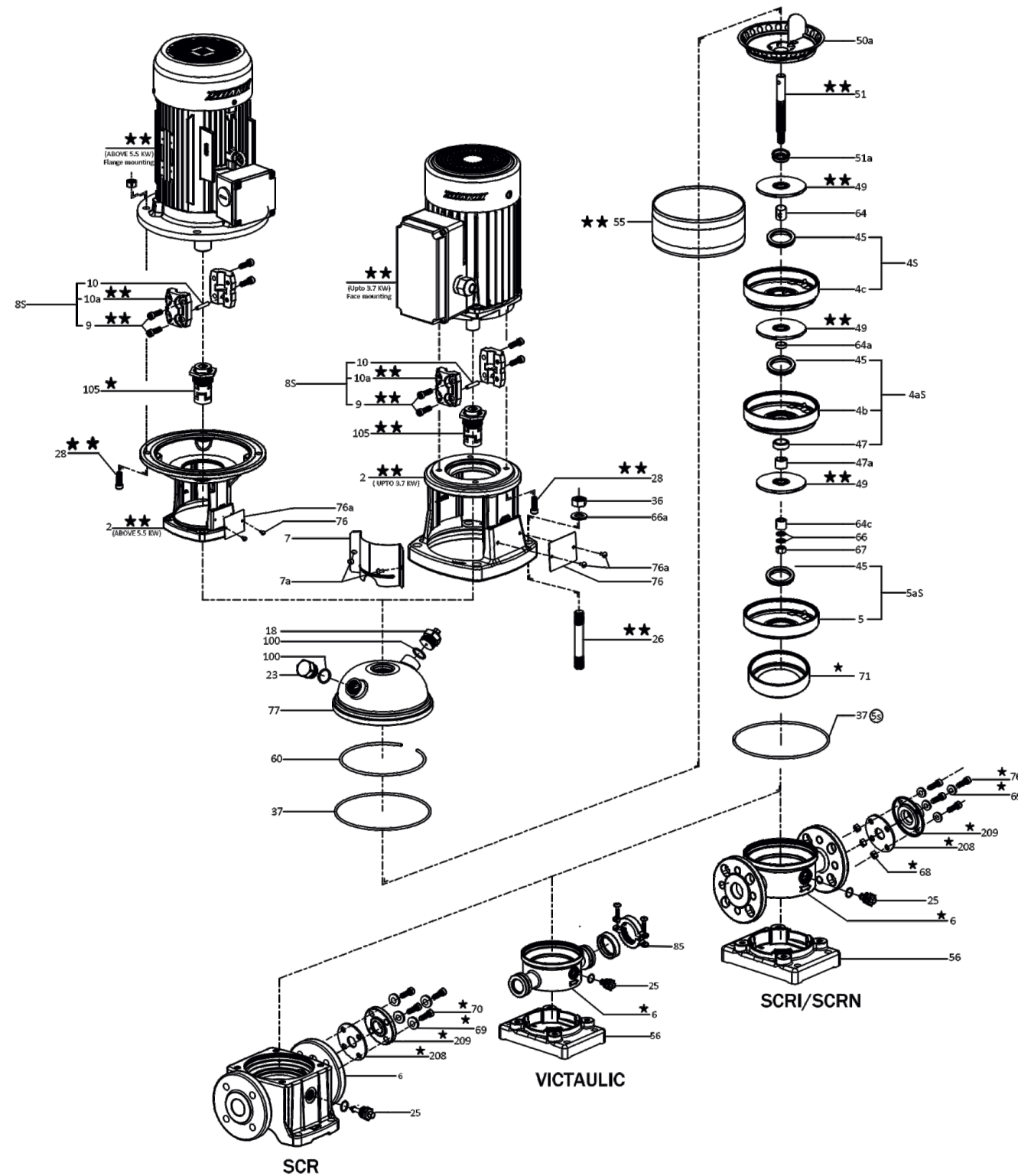
Variant	Description
Horizontally mounted pump	For safety or height reasons, certain applications, for instance on ships, require the pump to be mounted in horizontal position. For easy installation, the pump is fitted with brackets that support motor and pump.
High-pressure pump up to 47 bar	For high-pressure applications, we offer a unique double pump system capable of generating a pressure of up to 47 bar.
Pump for pharmaceutical and biotechnological applications	CRN pumps are designed for applications requiring the sterilisation and CIP capability of pipes, valves and pumps. (CIP = clean-in-place.)

Connections and other variants

Variant	Description
Pipe connections	In addition to the wide range of standard flange connections, a 16-bar DIN standard clamping flange is available. Customised flanges are available according to specifications.

EXPLODED VIEW

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



★★ Marked component changes as per stages and models.
★ Changes as per the application of customer.

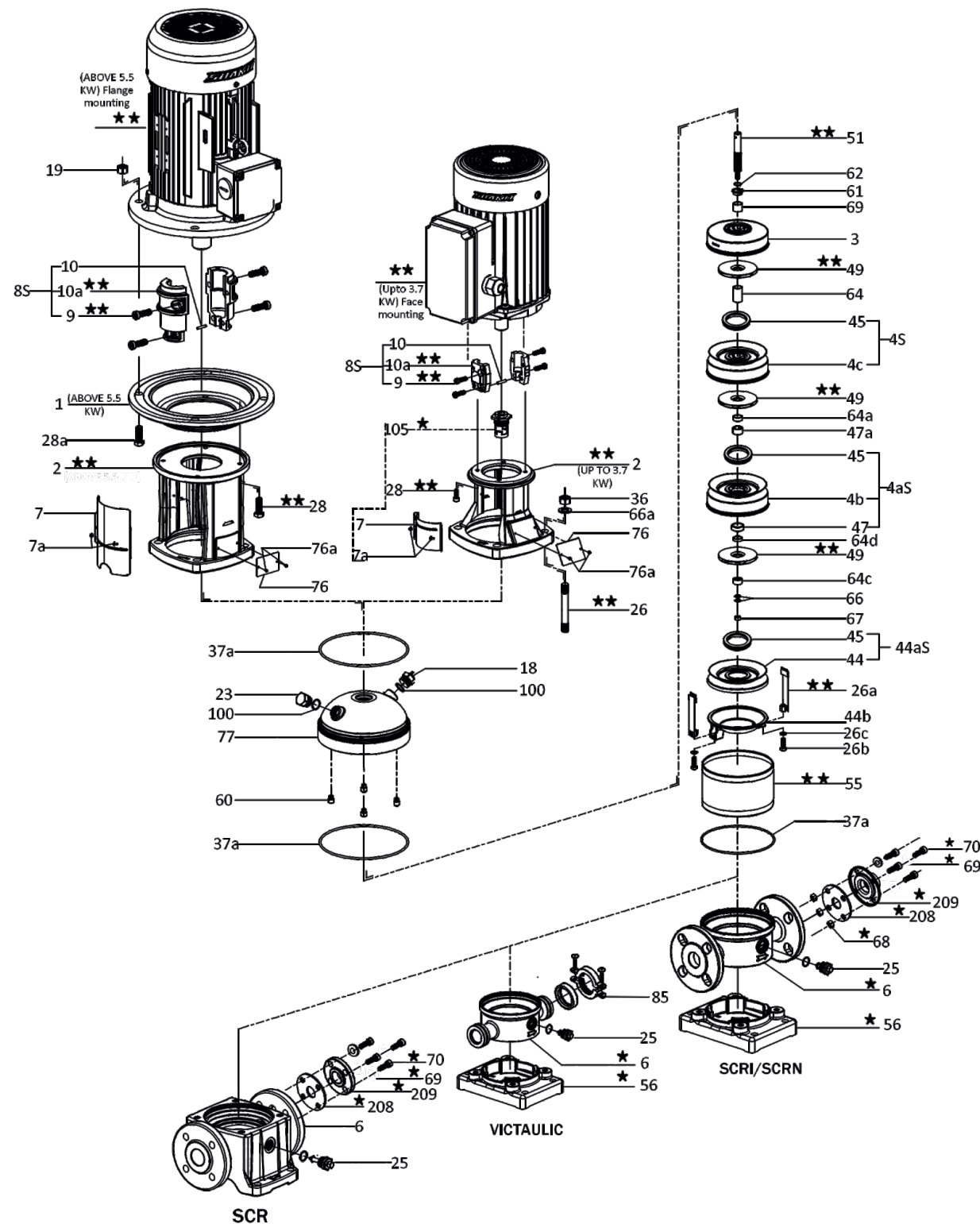
PART LIST

POS NO	DESCRIPTION
MIDDLE CHAMBER ASSEMBLY	
4aS	4b DIFFUSER CUP (MIDDLE)
	47 RADIAL BUSH
	45 NECKRING ASSEMBLY
TOP CHAMBER ASSEMBLY	
4S	4C DIFFUSER CUP (INTER)
	45 NECKRING ASSEMBLY
BOTTOM CHAMBER ASSEMBLY	
5aS	5 DIFFUSER CUP (BOTTOM)
	45 NECKRING ASSEMBLY
COUPLING ASSEMBLY	
8S	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
100	O-RING
25	DRAIN PLUG ASSEMBLY
38	O-RING
26	STAY BOLT
36	STAY BOLT NUT M 12
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 MUT M8
55	OUTER SLEEVE
60	CORROGATED SPRING
64a	SPACING PIPE (4.5 mm)
64	SPACING PIPE (17.5 mm)
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
203	FLANGE CIRCLIP
85	VICTAULIC COUPLING
71	DIFFUSER CUP (EMPTY)

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EXPLODED VIEW

SCR, SCRI, SCRN 10, 15, 20



★★ Marked component changes as per stages and models.
 ★ Changes as per the application of customer.

PART LIST

MATERIAL SPECIFICATION FOR
 SCR, SCRI & SCRN 10, 15 & 20

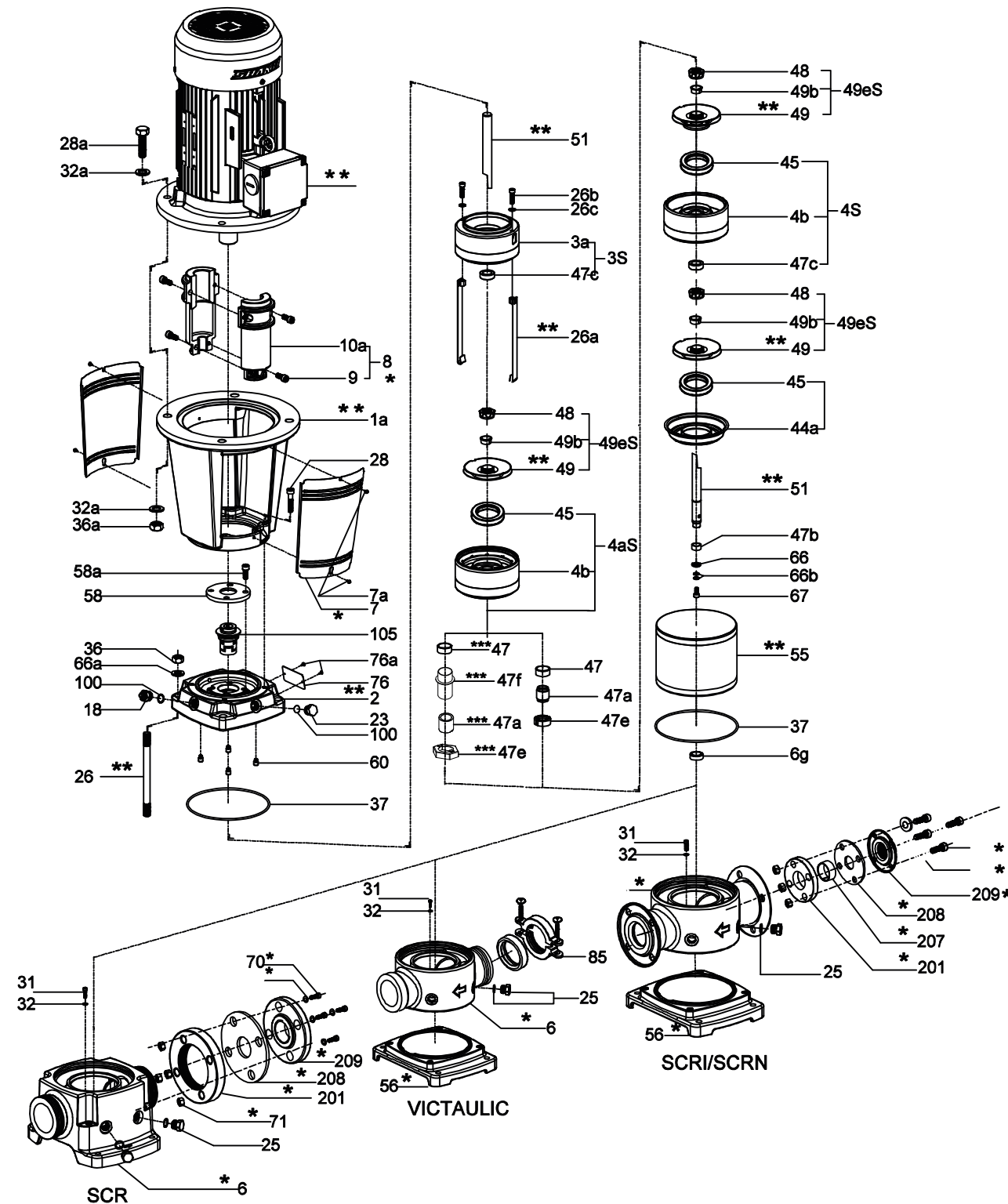
POS NO	DESCRIPTION
1	PUMP HEAD BASE (5.5 kW ABOVE)
2	PUMP HEAD
3	TOP CHAMBER
MIDDLE CHAMBER ASSEMBLY	
4aS	4b CHAMBER WITH VANE
	45 NECK RING ASSEMBLY
	47 RADIAL BUSH
INTER CHAMBER ASSEMBLY	
4S	4c CHAMBER WITH VANE
	45 NECK RING ASSEMBLY
BOTTOM CHAMBER ASSEMBLY	
44aS	44 BOTTOM CHAMBER
	45 NECK RING ASSEMBLY
COUPLING ASSEMBLY	
8S	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
100	O-RING
25	DRAIN PLUG ASSEMBLY
38	O-RING
26c	CLAMPING STRIP WASHER
26b	CLAMPING STRIP BOLT
26a	CLAMPING STRIP

POS NO	DESCRIPTION
26	STAY BOLT
36	STAY BOLT NUT M 16
66a	STAY BOLT WASHER M16
28a	BOLT
28	BOLT
37	O-RING
44b	INLET CHAMBER STACK
47a	RADIAL SLEEVE
49	IMPELLER
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 (7.4 mm)
64a	SPACING PIPE (10.0 mm)
64	SPACING PIPE (31.4 mm)
69	SPACING PIPE (20.5 mm)
76a	NAME PLATE SCREW
76	NAME PLATE
77	PUMP HEAD COVER
105	SHAFT SEAL
68	HEX -NUT M12
69	H.H. BOLT (M 12X55)
70	NUT 12
206	DIN FLANGE MC 32NB
207	DELIVERY FLANGE
208	DELIVERY FLANGE GASKET
209	DIN 32 FLANGE
85	VICTAULIC COUPLING

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EXPLODED VIEW

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



*** Only for SCRN 32/45/64/90
 ** Marked component changes as per stages and models.
 * Changes as per the application of customer.

PART LIST

MATERIAL SPECIFICATION FOR
 SCR, SCRI & SCRN 32, 45, 64 & 90

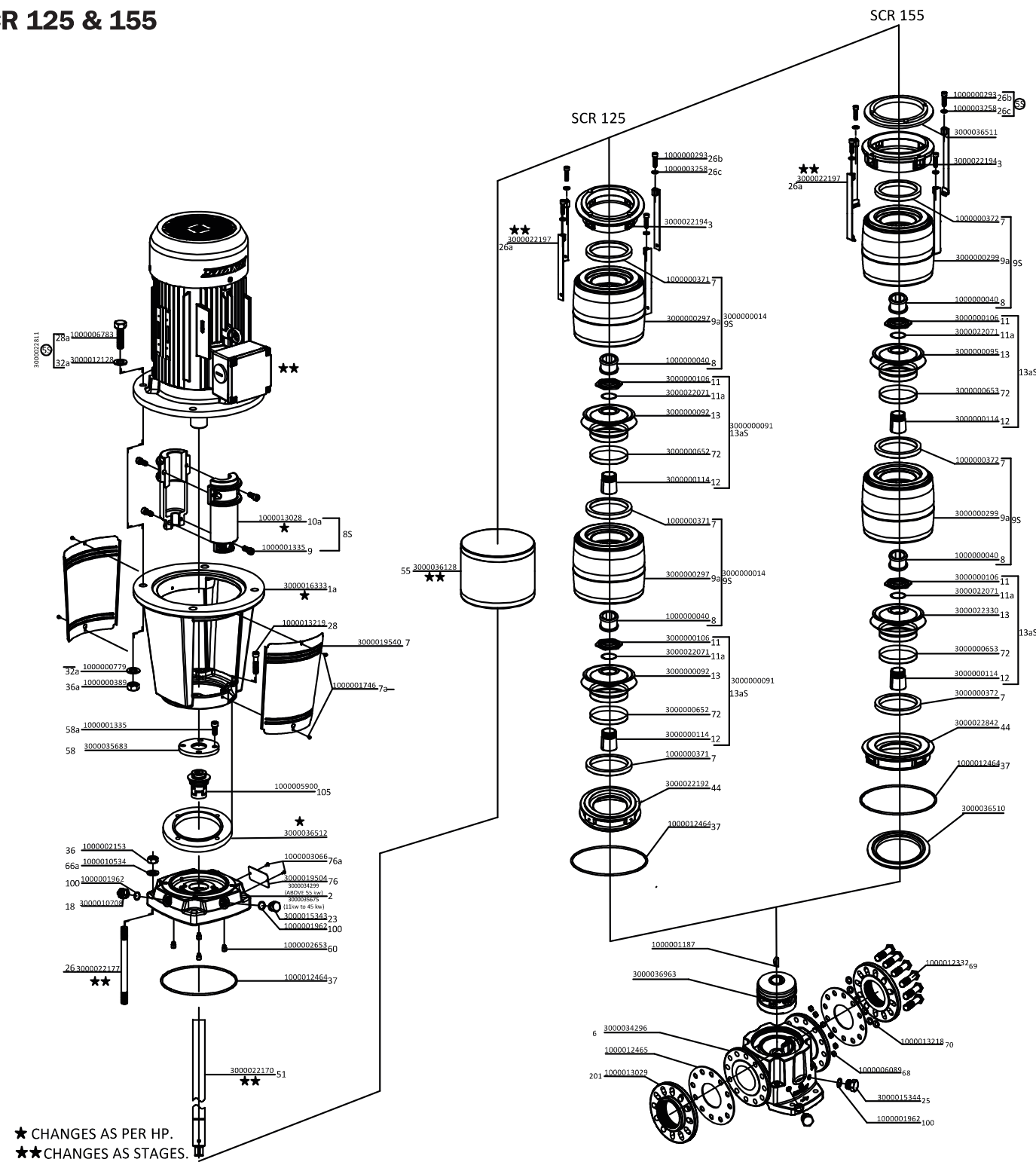
POS NO	DESCRIPTION
1a	MOTOR STOOL
2	PUMP HEAD
TOP CHAMBER ASSEMBLY	
3S	3a TOP CHAMBER
	47 CHAMBER BUSH
MIDDLE CHAMBER ASSEMBLY	
4aS	4b CHAMBER WITH VANE
	45 NECKRING Assembly
INTER CHAMBER ASSEMBLY	
4S	4b CHAMBER WITH VANE
	47c CHAMBER BUSH
	45 NECKRING Assembly
INLET PART ASSEMBLY	
44S	44a INLET PART
	45 NECKRING Assembly
IMPELLER COMPLETE	
49eS	49 IMPELLER
	49c IMPELLER WEARING RING
	48 SPLIT CONE NUT
	49b SPLIT CONE SLEEVE
COUPLING ASSEMBLY	
8S	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
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 M 16
66a	STAY BOLT WASHER
28a	BOLT
28	BOLT
31	ALLEN BOLT M6
36a	NUT M16
37	O-RING
47a	DRIVER
47e	DRIVER CUP
47f	PIPE FOR BUSH SLEEVE
51	PUMP SHAFT
47b	PUMP BASE BUSH
66	TC 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
77	PUMP HEAD COVER
105	SHAFT SEAL
68	HEX -NUT M12
69	H.H. BOLT (M 12X55)
70	NUT 12
206	DIN FLANGE MC 32NB
207	DELIVERY FLANGE
208	DELIVERY FLANGE GASKET
209	DIN 32 FLANGE
85	VICTAULIC COUPLING

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EXPLODED VIEW

SCR 125 & 155



★ OPTIONAL DIN FLANGE PROVIDED AS PER CUSTOMER REQUIREMENT

PART LIST

POS NO.	DESCRIPTION
1a	MOTOR STOOL
2	PUMP HEAD
3	DISCHARGE PART
6	PUMP BASE
7a	COUPLING GUARD SCREW
7	COUPLING GUARD
COUPLING ASSEMBLY	
8S	9 COUPLING BOLT
10a	COUPLING
BOWL ASSEMBLY	
9S	9a BOWL ASSEMBLY
4	NECKRING
6	BOWL BUSH
IMPELLER COMPLETE	
13aS	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

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