

PERFORMANCE UNDER PRESSURE

THE TRUSTED CHOICE FOR
PRESSURE BOOSTING.



MULTISTAGE CENTRIFUGAL PUMPS - 60 Hz

I N D E X

TH SERIES (HORIZONTAL MULTISTAGE CENTRIFUGAL PUMPS)

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HORIZONTAL
MULTISTAGE CENTRIFUGAL PUMPS
60 Hz

TH SERIES

Tormac TH Horizontal Multi-stage Centrifugal pumps are specially designed to facilitate pressure boosting and are best suited for a wide range of applications. The vital components viz. impellers, diffusers and shaft used in these pumps are made of corrosion resistant high quality Stainless Steel which ensure a smooth and trouble free performance helps to pump safe and hygienic drinking water systems. The prime mover of this product is robust in construction and built with thermal overload protection (only in single Phase Motors). High quality mechanical seals are used to ensure less friction / power loss.



Applications

- Industrial & Domestic water supply.
- Pressure boosting systems.
- Farms & Gardening.

Features

- Corrosion free Stainless steel Impellers and diffusers which is more suitable for potable water applications.
- Horizontal design making it easy to install.
- Pump and motor having single shaft for better power transmission.
- High Performance and Efficiency ensure long life span.

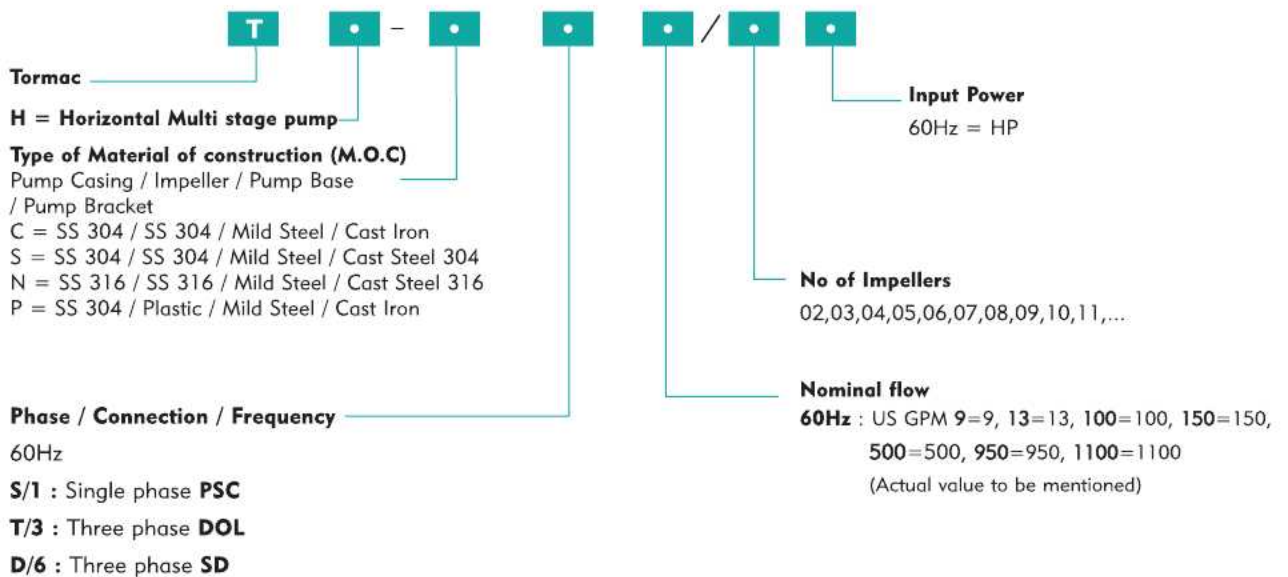
GENERAL DATA

Performance Curve Conditions

a	The Performance curves show pumpset performance at rated speed and voltage.
b	The measurements were made with airless water at 20°C. For pumping liquids with a density higher than that of water.
c	Pipe friction losses have not been included in the performance curves and performance tables.
d	The thick line of the curves indicate the recommended performance range.

e	Efficiency curve : EFF "%" shows pumpset efficiency.
f	Curve tolerance according to ISO : 9906, Annex-A.
g	The performance are at rated voltage and are only Indicative. Actual discharge depends on availability of water, based on strength of water source and height of water column from the suction pipe end.
h	The given performance are for the specified material of construction.

Model Classification



Pumped Liquids

pH	6.5 to 8.5
Turbidity	50 ppm silica scale (max.)
Viscosity	1.75x10 ⁶ m ² /sec (max.)
Hardness (Drinking Water)	300 (max.)
Specific gravity	1.004 (max.)
Allowable solids	3000 ppm (max.)
Chlorine ion density	500 ppm (max.)
Permissible amount of sand	50 g/m ³ (max.)
Temperature	90°C (max.)

GENERAL DATA

Technical Data - Pumps

Suction Lift up to	6m / 21 feet
Nominal flow up to	13, 26, 40 & 60 gpm
Maximum working head up to	53 m / 174 feet
Maximum allowable liquid temperature	90°C / 194°F
Maximum working pressure	13 & 26gpm = 10 bar at 0°C to 40°C & 6 bar at 41°C to 90°C 40 & 60gpm = 10 bar at 0°C to 55°C & 6 bar at 56°C to 90°C
Sealing type	Mechanical Seal / Carbon Ceramic
Inlet & outlet size	13 gpm = 1" x 1", 26 gpm = 1" x 1" 40 gpm = 1½" x 1¼", 60 gpm = 1½" x 1½"

Technical Data - Motors

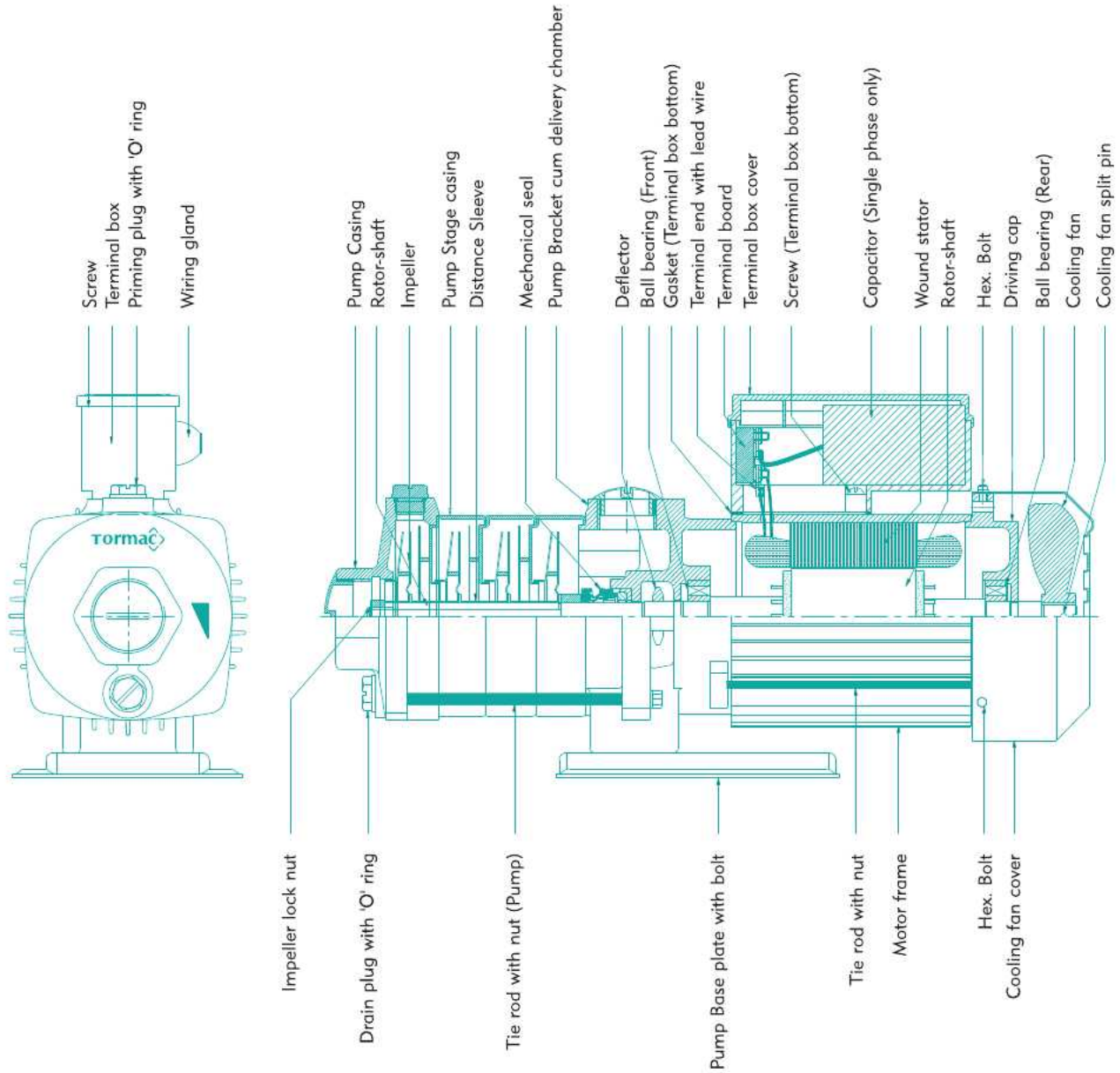
Frequency	60 Hz
Standard Voltage	1 Ph 220/230V, A.C - Supply (Permanent split capacitor - PSC) incorporated with thermal over load protector. 3 Ph 220/380/460V
Input Power	0.3 to 3.50 kW
Protection	IP 54 / IP 55
Insulation Class	'B / F'
Maximum Ambient Temperature	40°C / 104°F
Number of starts per hour	100 times
Duty	S1 continuous
Rotation Sequence	Anti clock wise viewed from driving end
Rated speed	3450 rpm

Material Specifications

Parts Name	Materials
Terminal Box	EP (Engineer Plastic / Thermoplastic)
Motor Frame	Aluminium
Rotor shaft	AISI 410 (Stainless Steel)
Mechanical Seal	Standard Sic / Sic / HNBR Optional Sic / Sic / EPDM
Impeller	AISI 304 (Stainless Steel)
Pump Casing	C.I (Cast Iron)
Pump Stage Casing	AISI 304 (Stainless Steel)
Distance Sleeve	AISI 304

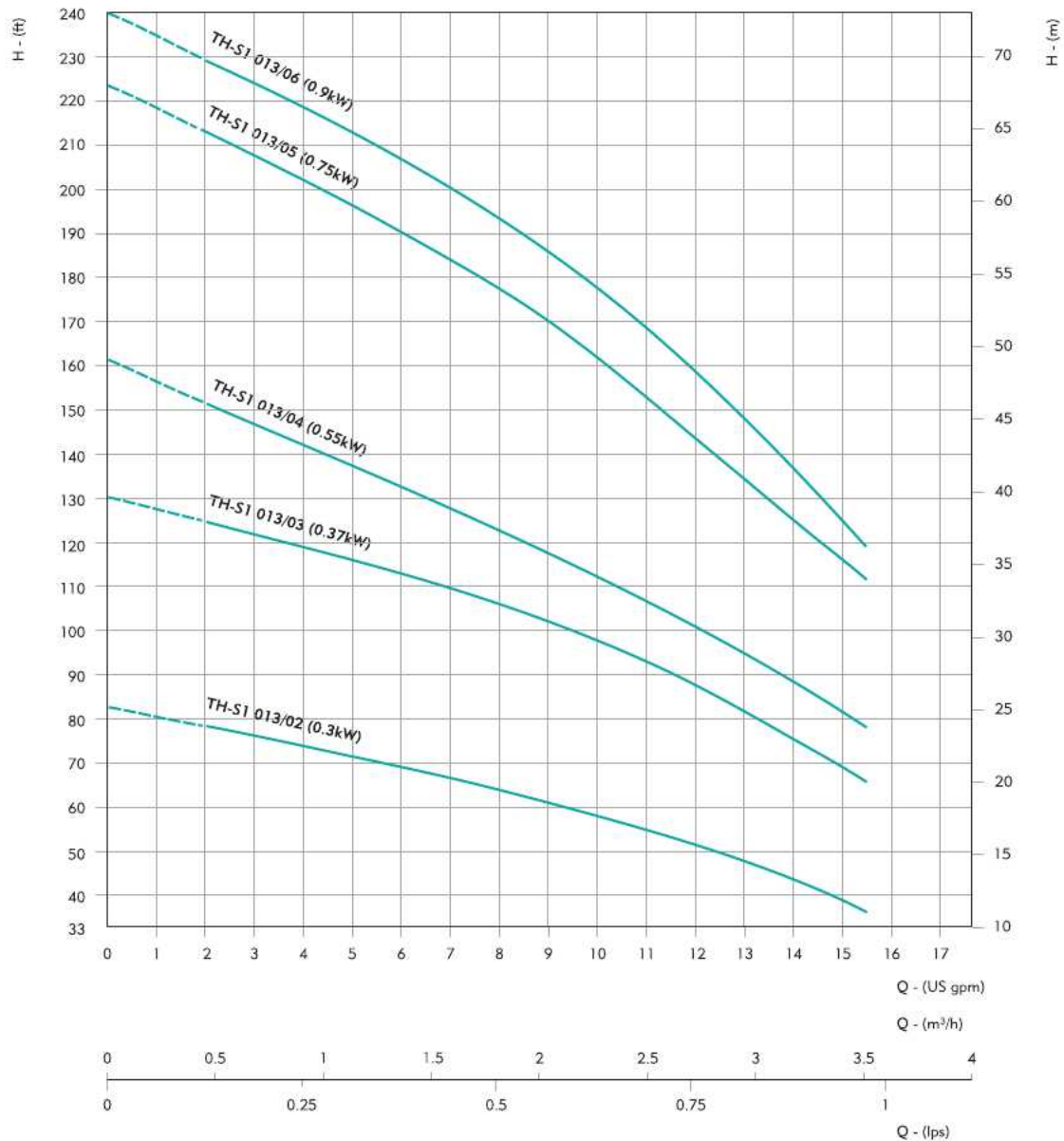
Note : The company reserves the right to modify the technical specification and illustrations without prior notice.

CONSTRUCTIONAL DATA



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PERFORMANCE CURVES & DATA



PIPE SIZE : **1" x 1" (NPT)**

NOMINAL FLOW : **013gpm**

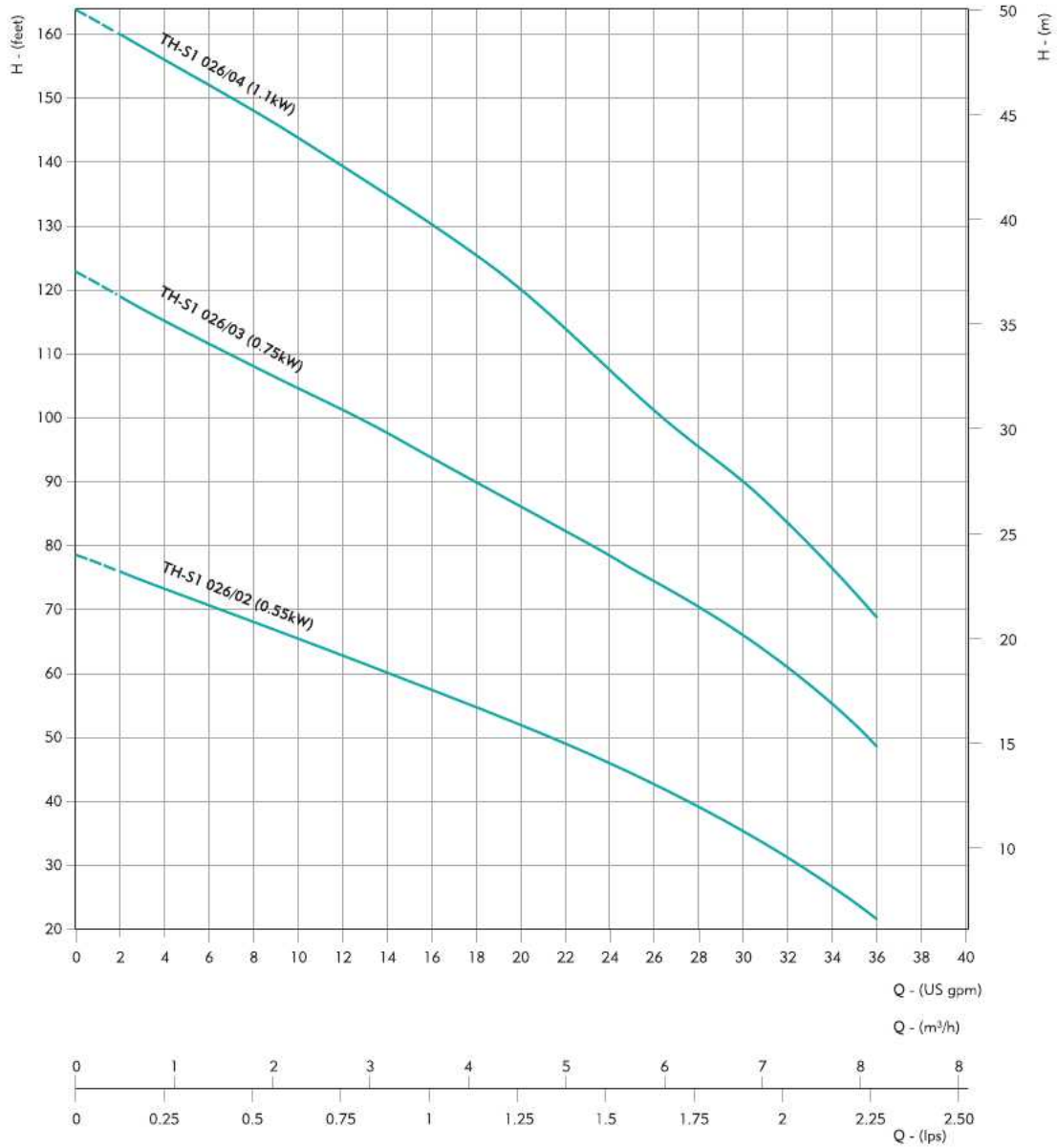
3450 rpm

Input kW	Model	Total Manometric Head in Feet	gpm	4	7	10	13	15.5
			m³/h	0.9	1.6	2.3	3	3.5
0.3	TH-S1 013/02	82	74	66	57	47	35	
0.37	TH-S1 013/03	130	118	109	97	81	64	
0.55	TH-S1 013/04	161	142	127	112	94	78	
0.75	TH-S1 013/05	223	202	184	161	134	111	
0.9	TH-S1 013/06	240	217	200	177	148	118	

The 4th digit of the model identification "S" denotes 1 Phase & which will be replaced with "T" in case of 3 Phase D.O.L motors.

Note : The company reserves the right to modify the technical specification and illustrations without prior notice.

PERFORMANCE CURVES & DATA



PIPE SIZE : **1" x 1" (NPT)**

NOMINAL FLOW : **026gpm**

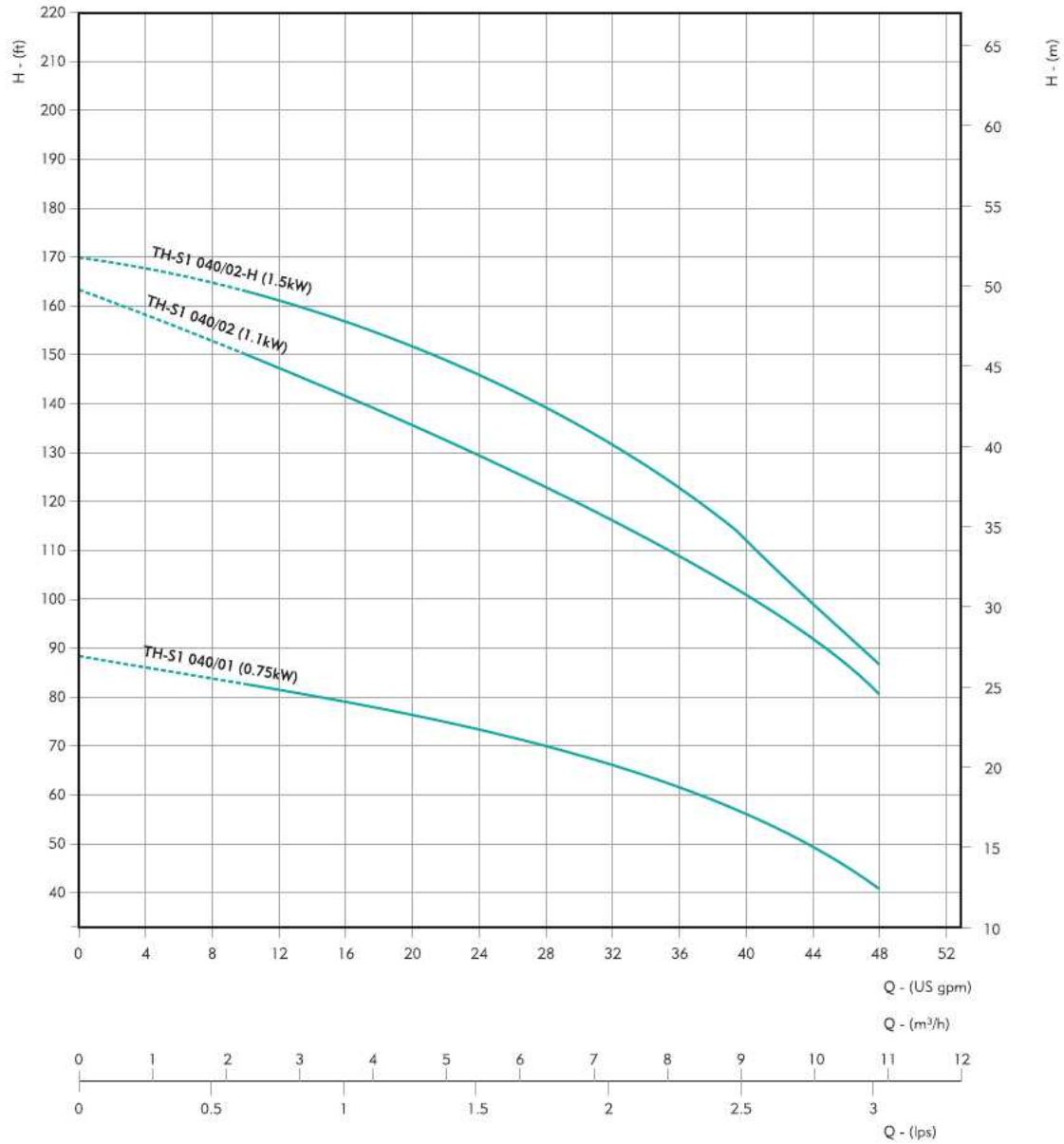
3450 rpm

Input kW	Model	gpm m³/h	0	8	14	20	26	32	36
			Total Manometric Head in Feet						
0.55	TH-S1 026/02		79	68	60	52	43	31	21
0.75	TH-S1 026/03		123	108	97	86	75	61	49
1.1	TH-S1 026/04		164	148	135	120	101	84	69

The 4th digit of the model identification "S" denotes 1 Phase & which will be replaced with "T" in case of 3 Phase D.O.L motors..
 * Mention pipe size while placing order.

Note : The company reserves the right to modify the technical specification and illustrations without prior notice.

PERFORMANCE CURVES & DATA



PIPE SIZE : 1½" x 1¼" (NPT)

NOMINAL FLOW : 040gpm

3450 rpm

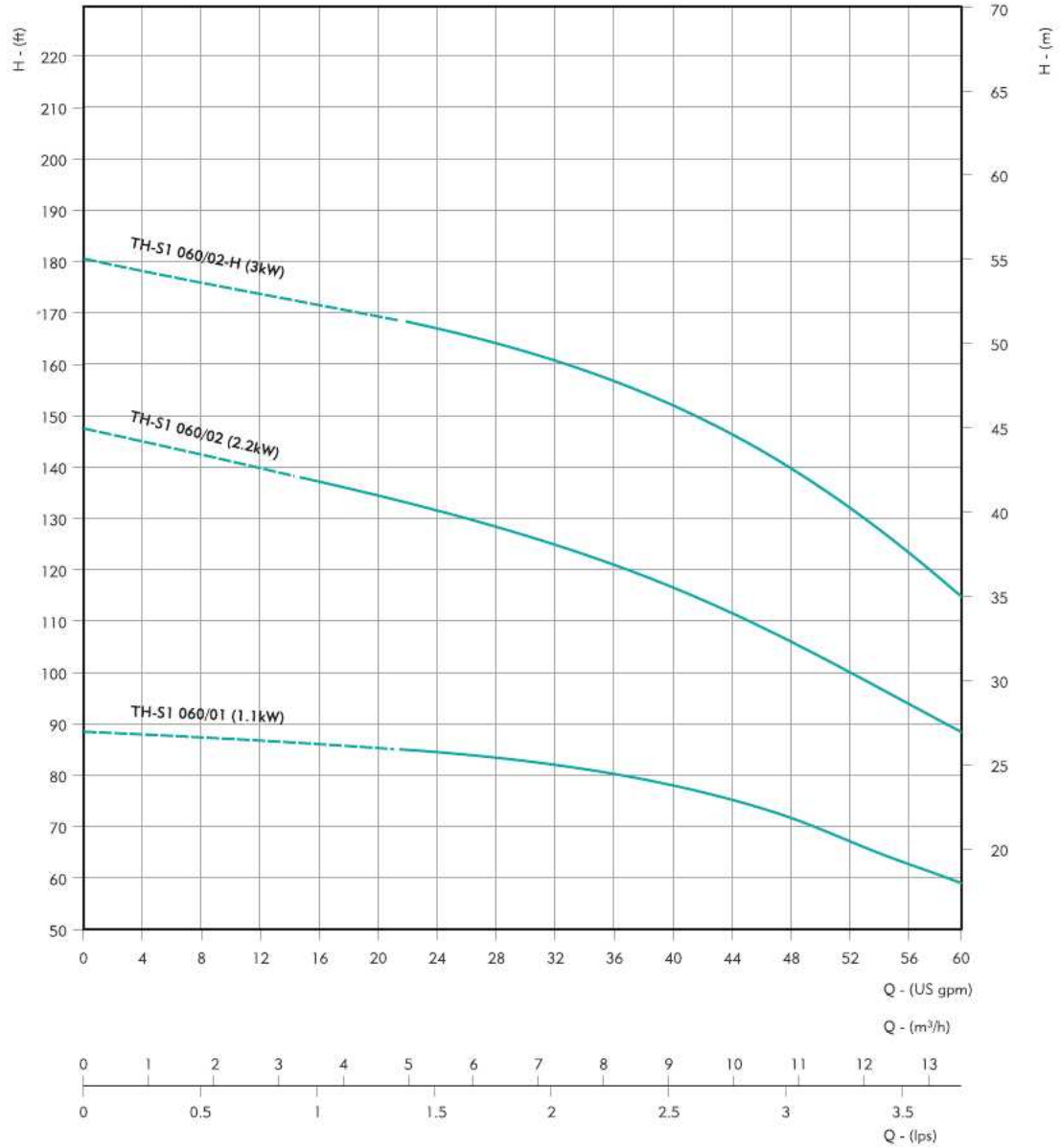
Input kW	Model	Total Manometric Head in Feet	l/s	0.83	1.11	1.38	1.66	1.94
			m³/h	3	4	5	6	7
0.75	TH-S1 040/01	89	81	73.5	66	56	40	
1.1	TH-S1 040/02	164	147	130	116	101	80	
1.5	TH-S1 040/02-H	171	161	146	132	112	87	

* E - Denotes elevated head model.

The 4th digit of the model identification "S" denotes 1 Phase & which will be replaced with "T" in case of 3 Phase D.O.L motors.

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PERFORMANCE CURVES & DATA



PIPE SIZE : 1½" x 1½" (NPT)

NOMINAL FLOW : 060gpm

3450 rpm

Input kW	Model	l/s m³/h	0	0.55	1.11	1.66	2.22	2.77
			0	2	4	6	8	10
1.1	TH-S1 060/01	Total Manometric Head in Feet	89	86	84	80	72	58
2.2	TH-S1 060/02		148	137	132	121	106	88
3	TH-S1 060/02-H		181	171	167	157	140	115

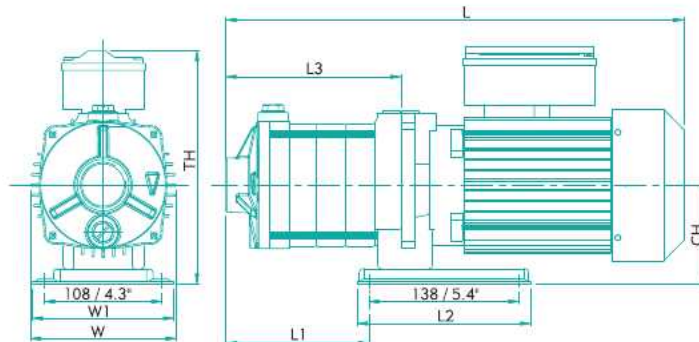
* E - Denotes elevated head model.

The 4th digit of the model identification "S" denotes 1 Phase & which will be replaced with "T" in case of 3 Phase D.O.L motors..

* Mention pipe size while placing order.

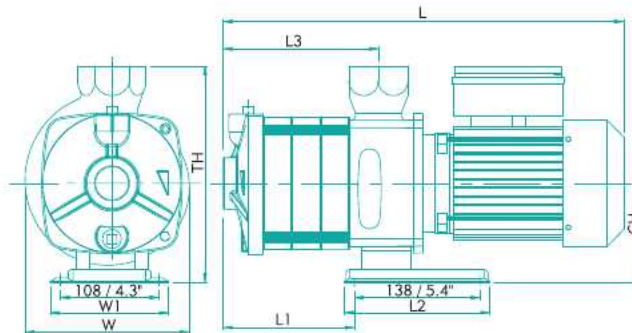
Note : The company reserves the right to modify the technical specification and illustrations without prior notice.

DIMENSION DRAWINGS



Model	L				L1		L2		L3		W		W1		TH		CH		Approx. Weight	
	1Ph		3Ph		mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	kg	lb
	mm	Inch	mm	Inch																
TH-S1 013/02	335	13.2	325	12.8	70	2.8	160	6.3	99	3.9	134	5.3	130	5.1	215	8.5	90	3.5	13	29
TH-S1 013/03	363	14.3	343	13.5	89	3.5	160	6.3	118	4.6	134	5.3	130	5.1	215	8.5	90	3.5	14	31
TH-S1 013/04	362	14.3	362	14.3	108	4.3	160	6.3	137	5.4	134	5.3	130	5.1	215	8.5	90	3.5	15	33
TH-S1 013/05	415	16.3	400	15.7	127	5.0	160	6.3	156	6.1	134	5.3	130	5.1	215	8.5	90	3.5	16	35
TH-S1 013/06	409	16.1	419	16.5	146	5.7	160	6.3	175	6.9	134	5.3	130	5.1	215	8.5	90	3.5	17	37

Model	L				L1		L2		L3		W		W1		TH		CH		Approx. Weight	
	1Ph		3Ph		mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	kg	lb
	mm	Inch	mm	Inch																
TH-S1 026/02	354	13.9	333	13.1	79	3.1	160	6.3	108	4.3	134	5.3	130	5.1	215	8.5	90	3.5	13	29
TH-S1 026/03	396	15.6	401	15.8	107	4.2	160	6.3	135	5.3	134	5.3	130	5.1	215	8.5	90	3.5	15	33
TH-S1 026/04	444	17.5	424	16.7	135	5.3	160	6.3	162	6.4	134	5.3	130	5.1	215	8.5	90	3.5	16	35



Model	L				L1		L2		L3		W		W1		TH		CH		Approx. Weight	
	1Ph		3Ph		mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	kg	lb
	mm	Inch	mm	Inch																
TH-S1 040/01	369	14.5	349	13.7	52	2.0	160	6.3	72	2.8	181	7.1	130	5.1	238	9.8	109	4.3	17	37
TH-S1 040/02	409	16.1	424	16.7	82	3.2	160	6.3	102.5	4.0	181	7.1	130	5.1	238	9.8	109	4.3	21	46
TH-S1 040/02-H	409	16.1	409	16.1	82	3.2	160	6.3	102.5	4.0	181	7.1	130	5.1	238	9.8	109	4.3	21.5	47

Model	L				L1		L2		L3		W		W1		TH		CH		Approx. Weight	
	1Ph		3Ph		mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	kg	lb
	mm	Inch	mm	Inch																
TH-S1 060/01	379	14.9	394	15.5	52	2.0	160	6.3	72	2.8	181	7.1	130	5.1	238	9.4	109	4.3	19	42
TH-S1 060/02	424	16.7	424	16.7	82	3.2	160	6.3	102.5	4.0	181	7.1	130	5.1	238	9.4	109	4.3	21.5	47
TH-S1 060/02-H	465	18.3	465	18.3	82	3.2	160	6.3	102.5	4.0	181	7.1	130	5.1	238	9.4	109	4.3	30	66

* All dimensions are in mm & Inches.

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**VERTICAL
MULTISTAGE CENTRIFUGAL PUMPS
60 Hz**

TV SERIES

Tormac TV Series Vertical Multistage Centrifugal Pumps are highly reliable and technologically advanced multipurpose pumps capable of satisfying the need of a wide variety of users. The in-line design enables the pump to be installed in vertical position and does not interrupt the horizontal pipe line system. All the wet parts like impellers, diffuser, shaft of these pumps are constructed by corrosion resistance AISI stainless steel and designed to deliver the best possible hydraulic efficiency. The integrated and most modern quality assurance systems used at every stage of the production and flawless workmanship ensure sustained and consistent operation. These pumps are equipped with replacement mechanical seal.



Applications

- Pressure boosting systems
- Heating, Cooling and Air conditioning system (HVAC - System)
- Water treatment & boiler feeding system
- Industrial plants
- Fire fighting
- High-rise buildings & Hotels
- RO - System

Features

- Reliability
- Inline design
- High efficiency
- Suitable for slightly aggressive water
- Can be Used in hot water pumping systems

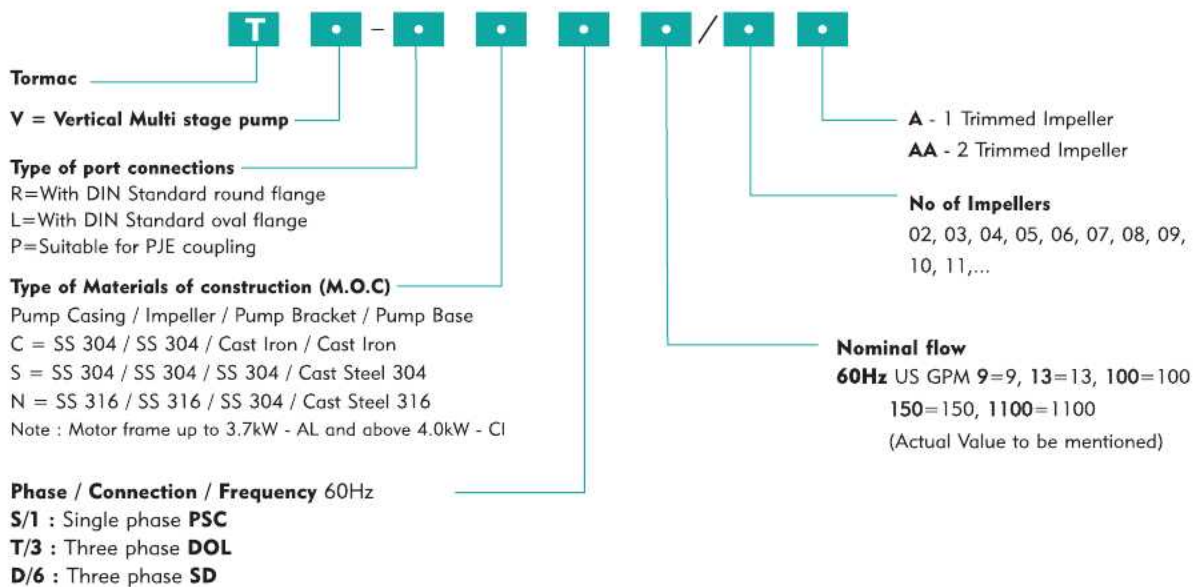
GENERAL DATA

Performance Curve Conditions

a	The Performance curves show pumpset performance at rated speed and voltage.
b	The measurements were made with airless water at 20°C. For pumping liquids with a density higher than that of water.
c	Pipe friction losses have not been included in the performance curves and performance tables.
d	The thick lines of the curves indicate the recommended performance range.

e	Efficiency curve : EFF "%" shows pumpset efficiency.
f	Curve tolerance according to ISO : 9906, Annex-A.
g	Actual discharge depends on availability of water, based on strength of water source and height of water column from the suction pipe End.
h	The given performance are for the specified material of construction of pump.

Model Classification



Pumped Liquids

pH	6.5 to 8.5
Turbidity	50 ppm silica scale (max.)
Viscosity	1.75x10 ⁶ m ² /sec (max.)
Hardness (Drinking Water)	300 (max.)
Specific gravity	1.004 (max.)
Allowable solids	3000 ppm (max.)
Chlorine ion density	500 ppm (max.)
Permissible amount of sand	25 g/m ³ (max.)

Note : The company reserves the right to modify the technical specification and illustrations without prior notice.

GENERAL DATA

Technical Data - Pumps

Suction Lift Upto	6m / 21 ft
Nominal flow up to	90 m ³ /hr / 450 gpm
Maximum working head up to	1050 feet / 320 metres
Maximum allowable liquid temperature	-20°C to +120°C -4° F to +248°F Optional
Maximum Ambient temperature	+ 40°C / 104°F
Maximum working pressure	30 bar
Operating Pressure Range	2.1 Mpa (21 bar) - 3.0 Mpa (30 bar)
Inlet Pressure Range	0.5 Mpa (5 bar) - 1.4 Mpa (14 bar)
Sealing type	Mechanical seal (Cartridge Type)
Inlet & outlet size	1" x 1", 1¼" x 1¼", 1½" x 1½", 2" x 2", 2½" x 2½", 3" x 3" & 4" x 4"

Technical Data - Motors

Frequency	60 Hz
Standard Voltage	1~230V AC Supply 0.37 to 2.2kW Permanent split capacitor - PSC & CSCR incorporated with thermal overload protector, 3~460V AC Supply 0.37 to 45kW
Power up to	0.37 - 45kW / 0.5 to 60HP
Motor Type	2 poles asynchronous
Motor Frame	Al (upto 3.7kW), CI (above 4.0kW)
Protection level of motor	IP 55 (IP 44 / 54 on request)
Insulation Class	'F' ('B' Optional)
Maximum Ambient Temperature	40°C / 104°F
Duty	S1 continuous
Rotation Sequence	Clock wise viewed from driving end
Rated speed	3450 rpm

Materials Specification

Parts Name	Type - C		Type - S		Type - N	
	Materials	AISI/ASTM	Materials	AISI/ASTM	Materials	AISI/ASTM
Pump Bracket	C.I	ASTM 25B	C.I	ASTM 25B	C.I	ASTM 25B
Shaft	Stainless Steel 304	AISI 304*	Stainless Steel 304	AISI 304*	Stainless Steel 316	AISI 316
Mechanical Seal	Sic* / FKM	-	Sic* / FKM	-	Sic* / FKM	-
Impeller	AISI 304	AISI 304	Stainless Steel 304	AISI 304	Stainless Steel 316	AISI 316
Wearing Ring	Teflon	-	Teflon	-	Teflon	-
Diffuser	Stainless Steel 304	AISI 304	Stainless Steel 304	AISI 304	Stainless Steel 316	AISI 316
Pump Outer Shell	Stainless Steel 304	AISI 304	Stainless Steel 304	AISI 304	Stainless Steel 316	AISI 316
Distance Sleeve	Stainless Steel 304	AISI 304	Stainless Steel 304	AISI 304	Stainless Steel 316	AISI 316
Pump Base	C.I	ASTM 25B	Stainless Steel 304	AISI 304	Stainless Steel 316	AISI 316
Base Plate	CI	ASTM 25B	C.I	ASTM 25B	C.I	ASTM 25B
Rubber Parts	Viton	-	Viton	-	Viton	-

* Options available.

SIC - Silicon Carbide, FKM - Fluroelarmoer (VITON), TC - Tungstan Carbidge

Note : The company reserves the right to modify the technical specification and illustrations without prior notice.

GENERAL DATA

Maximum Inlet Pressure

The actual inlet pressure plus the Shut off Pressure(Head) should always be lower than the "maximum operating pressure".

Minimum Inlet Pressure

In case that the pressure in pump is lower than steam pressure used to convey liquid, the cavitations will occur. To avoid the cavitations, and lessen the vibration and noise, you are suggested to adopt NPSH to make sure that the pump are under optimal operation condition.

The following formula can be used for calculation of minimum inlet

pressure :

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

H : Maximum suction head (m)

P_b : Atmosphere pressure (bar)

In a closed system, P_b means system pressure (bar)

NPSH : Net positive suction head (m)

It can be read from the point of Max.flow rate shown on NPSH curve.

H_f : Pipeline loss at the inlet (m)

It is in accordance with pipeline possible Max.flow.

H_v : Stream pressure (m)

It depends on liquid temperature and system pressure value.

H_s : Safety margin (m)

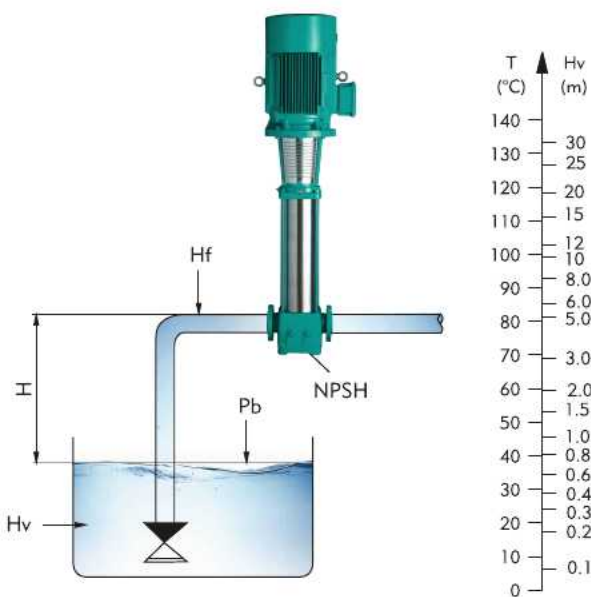
Minimum 0.5m delivery head

If the calculated result H is negative, the pump may run under the Max. suction head H. In case the calculated result H is negative, a delivery head if Min.inlet pressure is necessary.

Note: Normally, the above calculation will not be done. H is calculated in the following conditions:

1. The liquid temperature is comparatively higher.
2. Liquid flow exceeds rated value.
3. Suction head is comparatively large or inlet pipeline long.
4. System pressure is too low.
5. Bad inlet condition.

Inlet Pressure

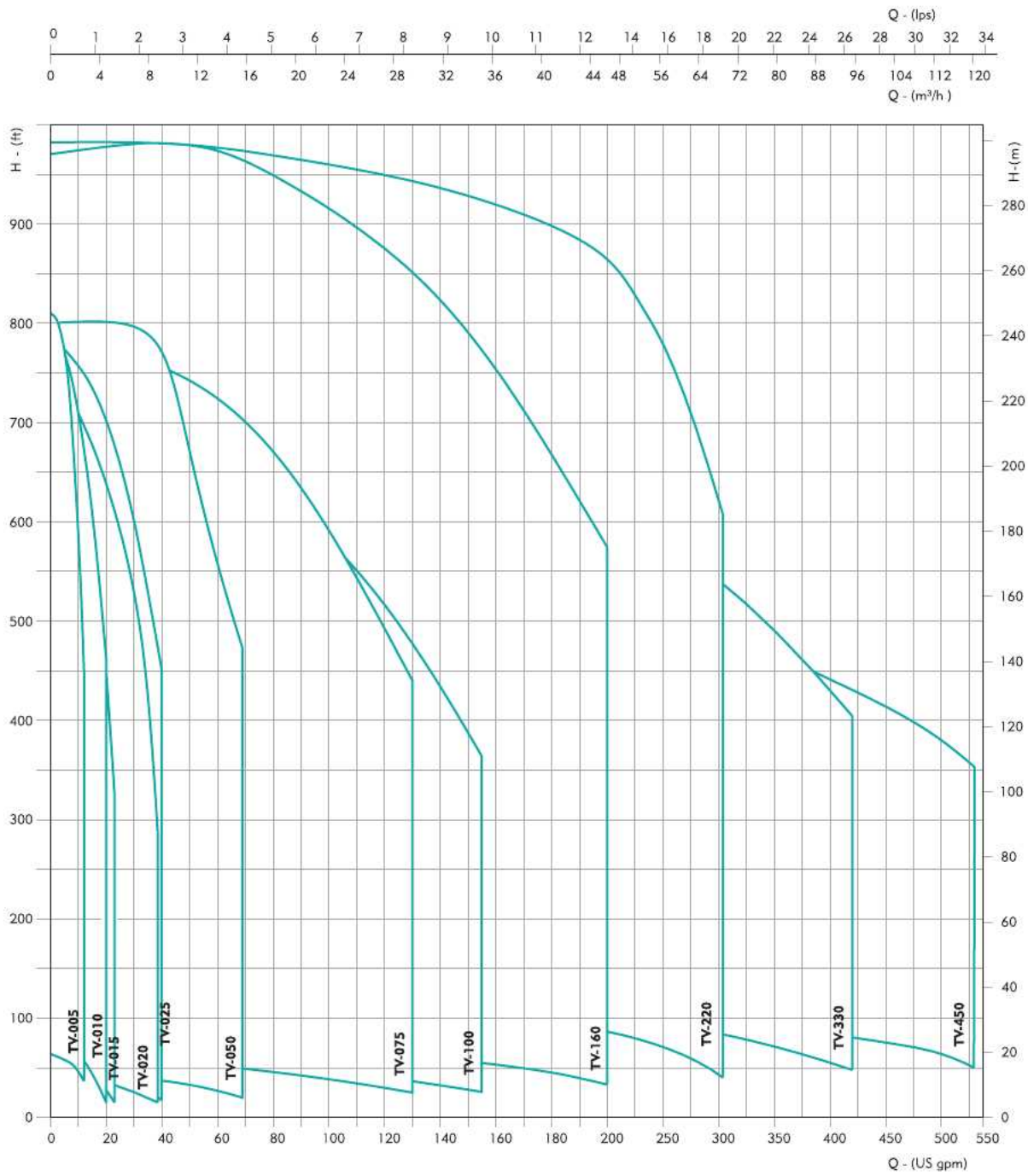


Electrical Data (3Ph, 460V, 60Hz)

Motor		Rated Current in Amps	Motor Eff. %	PF (cosφ)
(kW)	(HP)			
0.37	0.5	0.8	80	0.75
0.55	0.75	1.2	82	0.71
0.75	1.0	1.6	82	0.71
1.1	1.5	2.0	84	0.77
1.5	2.0	2.6	85	0.83
2.2	3.0	3.9	84	0.83
3.0	4.0	4.1	86	0.77
4.0	5.5	7.0	85	0.80
5.5	7.5	9.2	87	0.89
7.5	10	13.5	88	0.81
11	15	16.6	91	0.89
15	20	24.0	87	0.92
18.5	25	28.0	90	0.92
22	30	34.0	91	0.87
30	40	45.0	91	0.91
37	50	57	93	0.88
45	60	69	93.6	0.90

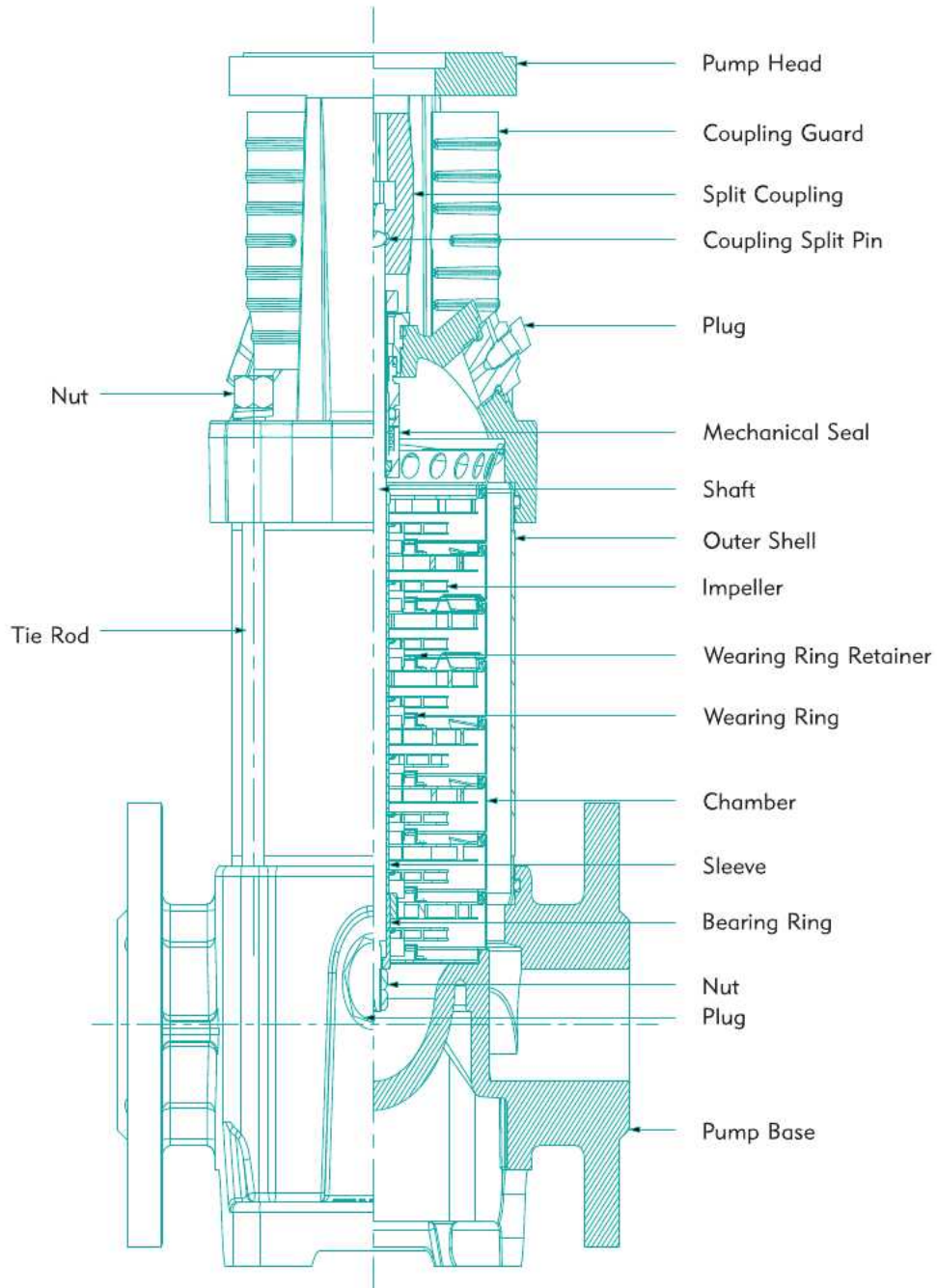
Other voltages 220V, 380V and Dual Voltage 220/380V, 220/440V also can be supplied on request.

GROUP PERFORMANCE CURVES



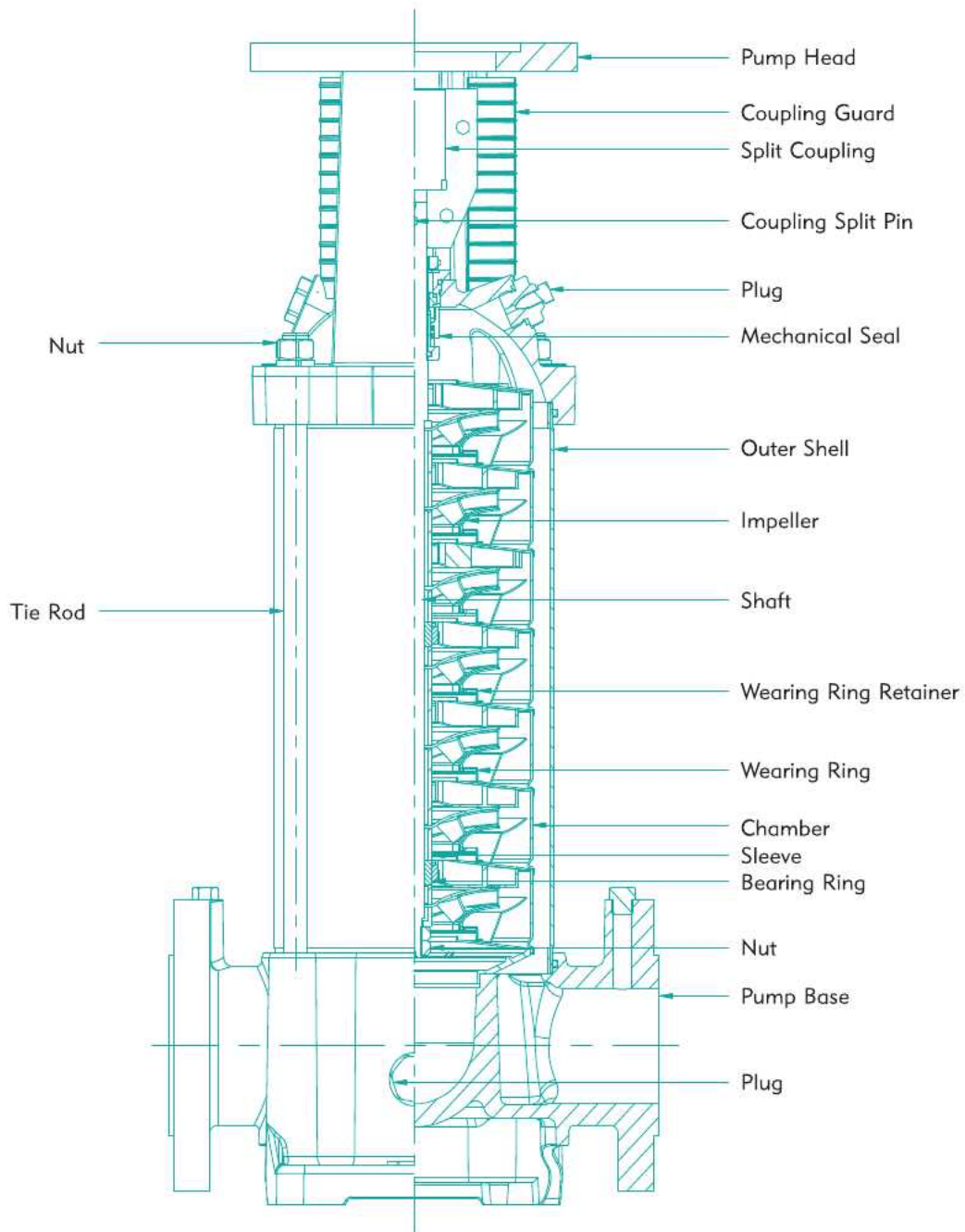
Note : The company reserves the right to modify the technical specification and illustrations without prior notice.

CONSTRUCTIONAL DATA



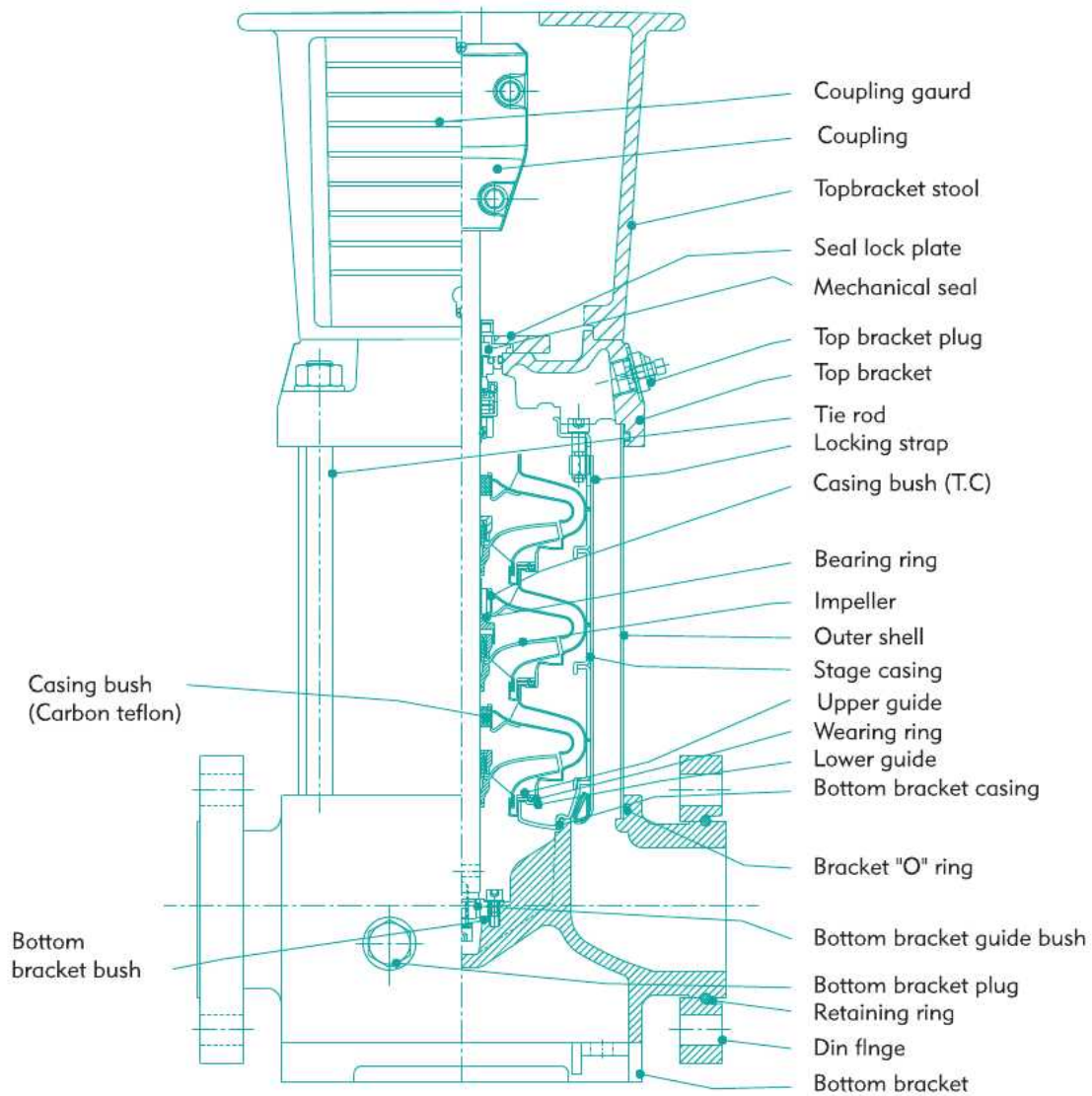
TV - 05 to 025 gpm

CONSTRUCTIONAL DATA



TV - 050 to 100 gpm

CONSTRUCTIONAL DATA



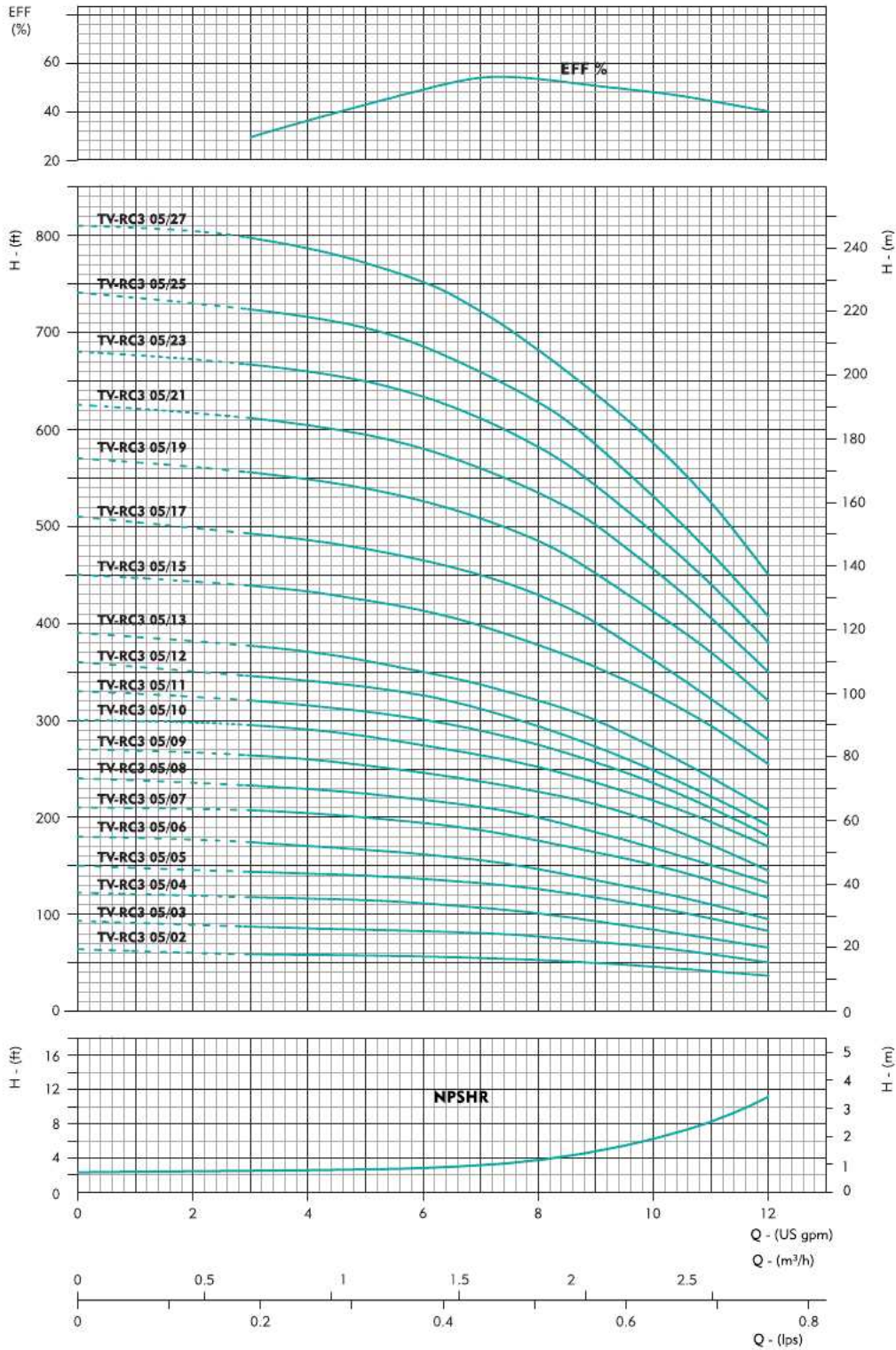
TV - 160, 220, 330 & 450 gpm

PERFORMANCE CURVES

PIPE SIZE : 1" x 1" / 1¼" x 1¼"

NOMINAL FLOW : 5gpm

3450 rpm



Note : The company reserves the right to modify the technical specification and illustrations without prior notice.

PERFORMANCE CURVES

PIPE SIZE : 1" x 1" / 1¼" x 1¼"

NOMINAL FLOW : 5gpm

3450 rpm

POWER		PUMP MODEL	m ³ /h	0	0.9	1.1	1.4	1.8	2.3	2.7
kW	HP			US gpm	0	4	5	6	8	10
0.37	0.5	TV-RC3 05/02	TOTAL MANOMETRIC HEAD IN FEET	62	59	58	58	53	46	38
0.37	0.5	TV-RC3 05/03		93	86	84	82	78	66	50
0.37	0.5	TV-RC3 05/04		122	116	114	110	100	83	66
0.55	0.75	TV-RC3 05/05		150	141	140	139	126	109	82
0.55	0.75	TV-RC3 05/06		180	170	168	162	147	123	95
0.75	1.0	TV-RC3 05/07		210	205	200	194	176	150	119
0.75	1.0	TV-RC3 05/08		240	230	224	219	200	169	132
0.75	1.0	TV-RC3 05/09		270	260	252	246	228	195	145
1.1	1.50	TV-RC3 05/10		300	290	283	274	251	219	170
1.1	1.50	TV-RC3 05/11		330	315	309	300	275	235	180
1.1	1.50	TV-RC3 05/12		360	340	335	326	294	250	191
1.1	1.50	TV-RC3 05/13		390	370	361	350	320	271	209
1.5	2.0	TV-RC3 05/15		450	432	472	412	379	328	255
1.5	2.0	TV-RC3 05/17		510	486	478	465	430	361	280
2.2	3.0	TV-RC3 05/19		570	549	540	526	484	411	320
2.2	3.0	TV-RC3 05/21		625	604	595	580	534	455	350
2.2	3.0	TV-RC3 05/23		680	660	650	633	581	493	380
2.2	3.0	TV-RC3 05/25		740	716	704	688	629	530	408
3.0	4.0	TV-RC3 05/27		810	788	771	751	682	586	450

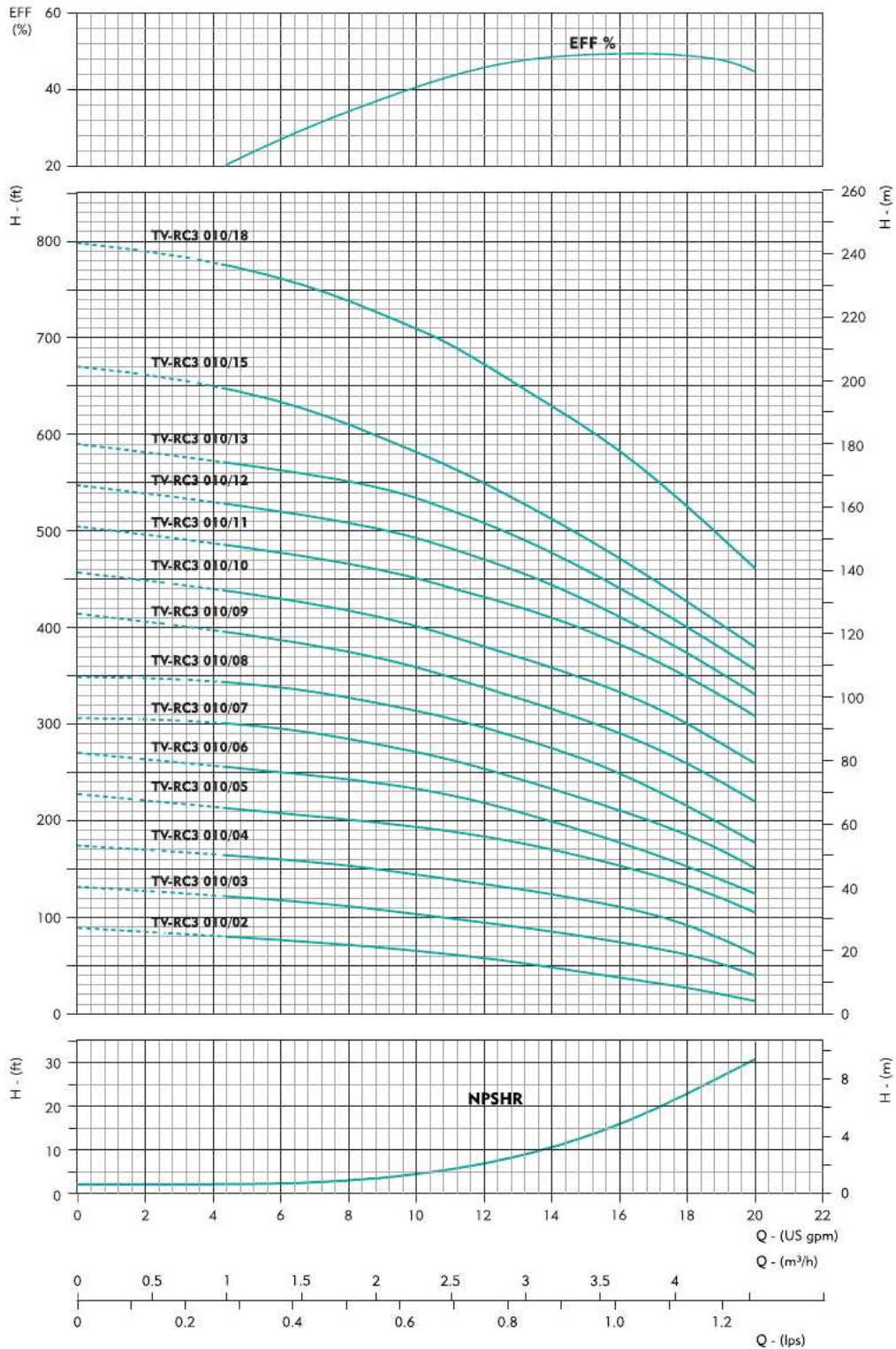
The 5th digit of the model identification "S" denotes 1 Phase & which will be replaced with "T" in case of 3 Phase D.O.L motors.
1 Phase motors only upto 4HP.

PERFORMANCE CURVES

PIPE SIZE : 1" x 1" / 1¼" x 1¼"

NOMINAL FLOW : 10gpm

3450 rpm



Note : The company reserves the right to modify the technical specification and illustrations without prior notice.

PERFORMANCE CURVES

PIPE SIZE : 1" x 1" / 1¼" x 1¼"

NOMINAL FLOW : 10gpm

3450 rpm

POWER		PUMP MODEL	m ³ /h	0	0.9	1.8	2.3	2.7	3.6	4.5
kW	HP			US gpm	0	4	8	10	12	16
0.37	0.5	TV-RC3 010/02	TOTAL MANOMETRIC HEAD IN FEET	89	80	72	65	57	38	13
0.55	0.75	TV-RC3 010/03		132	123	111	102	95	75	40
0.75	1.0	TV-RC3 010/04		174	165	153	144	135	110	62
1.1	1.5	TV-RC3 010/05		227	215	201	192	184	153	105
1.1	1.5	TV-RC3 010/06		270	257	243	231	218	177	125
1.5	2.0	TV-RC3 010/07		306	301	285	270	254	210	151
2.2	3.0	TV-RC3 010/08		348	345	327	313	296	249	178
2.2	3.0	TV-RC3 010/09		414	397	375	360	338	290	220
2.2	3.0	TV-RC3 010/10		457	440	418	400	380	333	260
2.2	3.0	TV-RC3 010/11		505	487	466	450	432	382	308
2.2	3.0	TV-RC3 010/12		547	530	508	491	470	411	331
3	4.0	TV-RC3 010/13		590	573	551	533	508	441	357
3	4.0	TV-RC3 010/15		670	650	610	580	550	472	380
4	5.5	TV-RC3 010/18		798	778	739	710	672	583	461

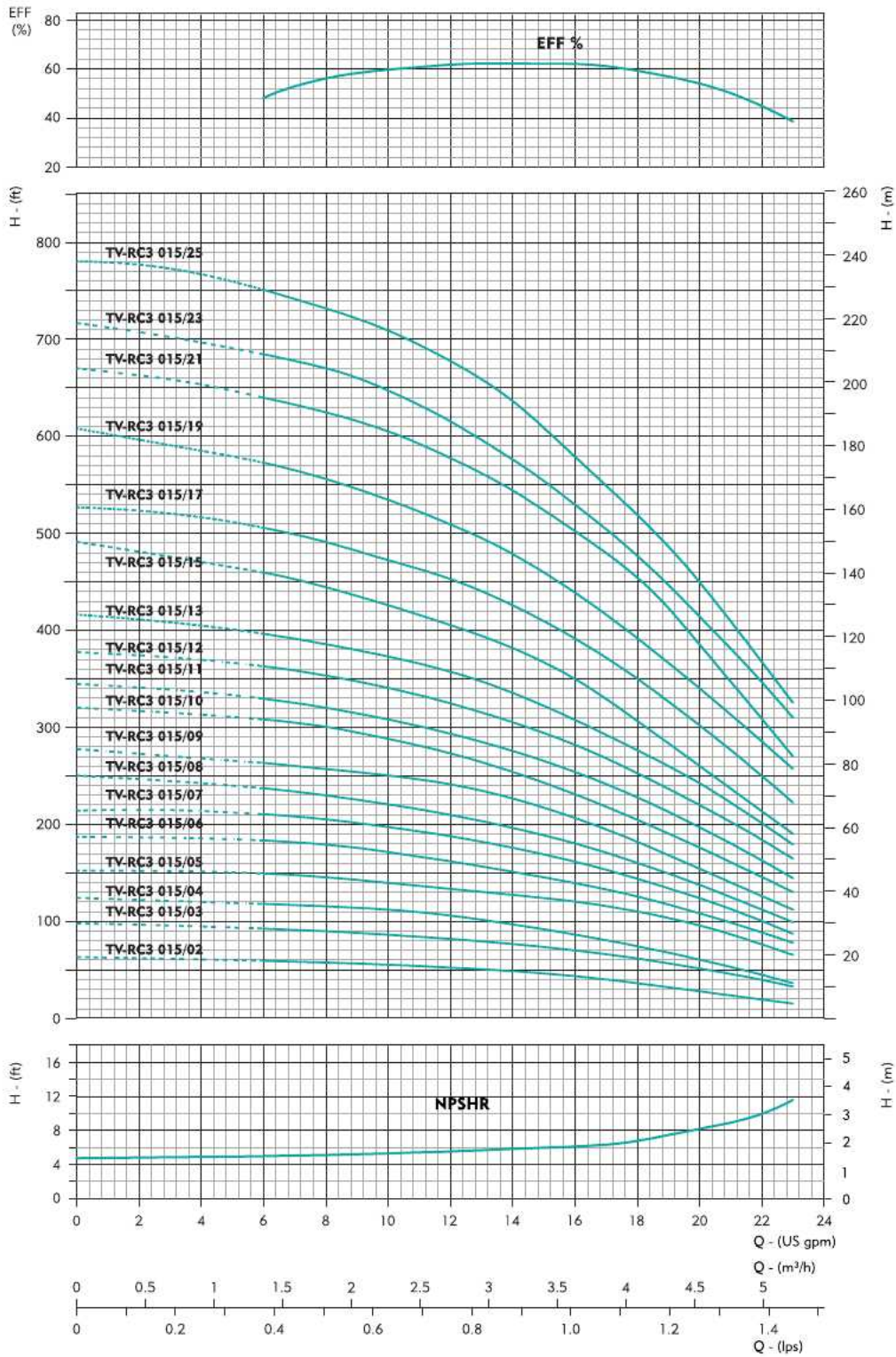
The 5th digit of the model identification "S" denotes 1 Phase & which will be replaced with "T" in case of 3 Phase D.O.L motors.
1 Phase motors only upto 4HP.

PERFORMANCE CURVES

PIPE SIZE : 1" x 1" / 1¼" x 1¼"

NOMINAL FLOW : 15gpm

3450 rpm



Note : The company reserves the right to modify the technical specification and illustrations without prior notice.

PERFORMANCE CURVES

PIPE SIZE : 1" x 1" / 1¼" x 1¼"

NOMINAL FLOW : 15gpm

3450 rpm

POWER		PUMP MODEL	m ³ /h	0	1.4	2.3	3.4	4.1	5.2
kW	HP			US gpm	0	6	10	15	18
0.37	0.50	TV-RC3 015/02	TOTAL MANOMETRIC HEAD IN FEET	62	60	55	47	35	15
0.55	0.75	TV-RC3 015/03		98	92	85	72	60	30
0.55	0.75	TV-RC3 015/04		125	118	111	91	75	35
0.75	1.0	TV-RC3 015/05		151	150	140	122	110	65
1.1	1.5	TV-RC3 015/06		188	182	170	145	125	79
1.1	1.5	TV-RC3 015/07		212	210	198	170	145	89
1.1	1.5	TV-RC3 015/08		250	238	220	190	160	100
1.5	2.0	TV-RC3 015/09		278	262	250	219	180	112
1.5	2.0	TV-RC3 015/10		320	308	290	242	205	130
1.5	2.0	TV-RC3 015/11		345	330	308	265	226	145
2.2	3.0	TV-RC3 015/12		378	362	340	295	250	165
2.2	3.0	TV-RC3 015/13		416	395	372	321	275	180
2.2	3.0	TV-RC3 015/15		490	460	426	368	308	190
2.2	3.0	TV-RC3 015/17		528	505	470	410	350	223
3.0	4.0	TV-RC3 015/19		608	572	535	460	390	255
3.0	4.0	TV-RC3 015/21		670	640	605	522	450	270
3.0	4.0	TV-RC3 015/23		718	685	645	551	475	310
3.0	4.0	TV-RC3 015/25		780	750	710	608	520	325

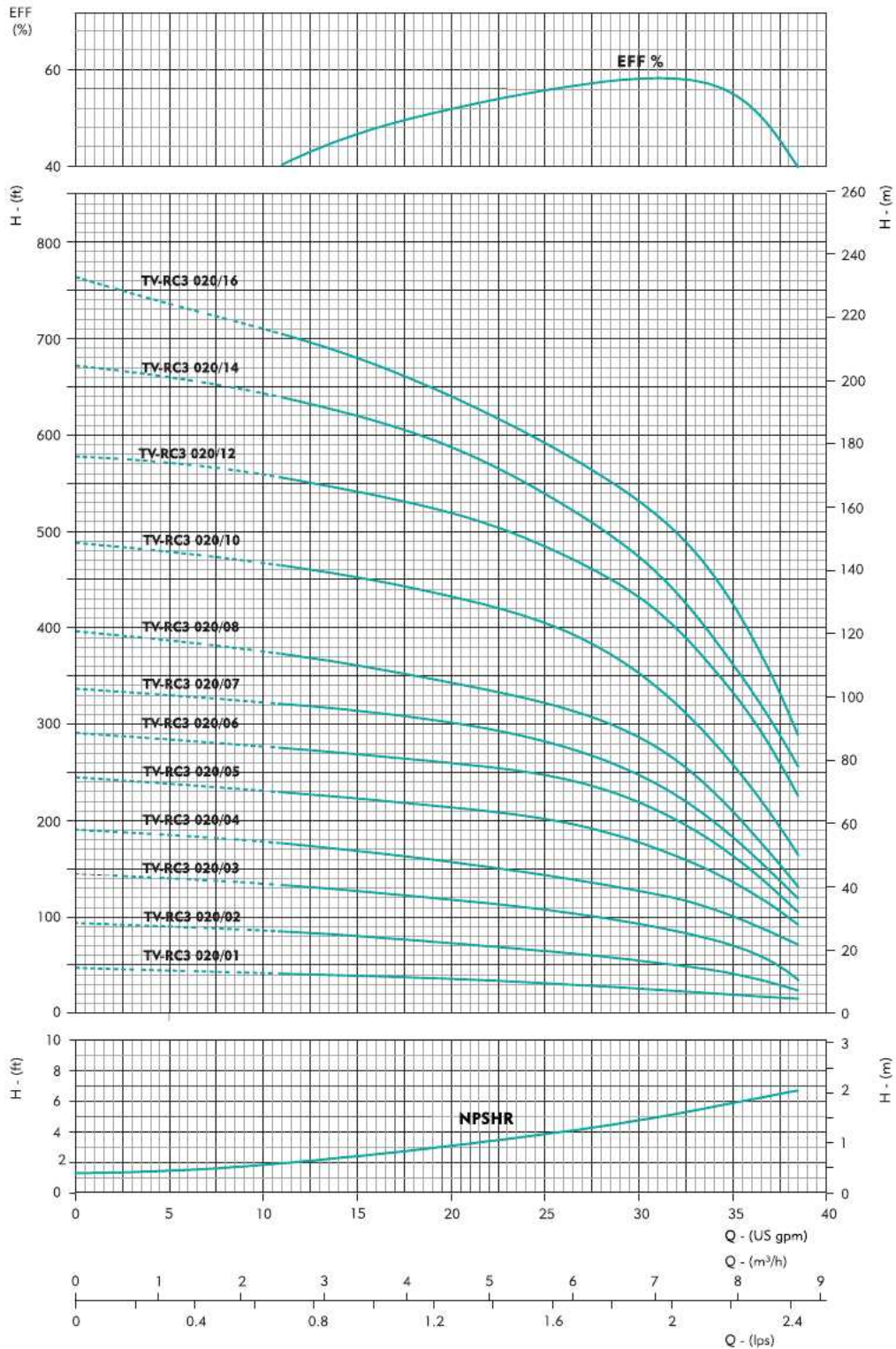
The 5th digit of the model identification "S" denotes 1 Phase & which will be replaced with "T" in case of 3 Phase D.O.L motors.
1 Phase motors only upto 4HP.

PERFORMANCE CURVES

PIPE SIZE : 1" x 1" / 1¼" x 1¼"

NOMINAL FLOW : 20gpm

3450 rpm



Note : The company reserves the right to modify the technical specification and illustrations without prior notice.

PERFORMANCE CURVES

PIPE SIZE : 1" x 1" / 1¼" x 1¼"

NOMINAL FLOW : 20gpm

3450 rpm

POWER		PUMP MODEL	m ³ /h	0	2.5	3.4	4.5	5.7	8	8.6
kW	HP			US gpm	0	11	15	20	25	35
0.37	0.5	TV-RC3 020/01	TOTAL MANOMETRIC HEAD IN FEET	47	40	39	36	32	20	16
0.75	1.0	TV-RC3 020/02		94	84	80	71	65	41	26
0.75	1.0	TV-RC3 020/03		144	132	127	119	107.5	70	42
1.5	2.0	TV-RC3 020/04		190	178	168	158	144	100	75
2.2	3.0	TV-RC3 020/05		245	230	223	202	202	137	99
2.2	3.0	TV-RC3 020/06		290	276	268.5	260	247	163	113
3	4.0	TV-RC3 020/07		337	320	314	301	282	182	128
3	4.0	TV-RC3 020/08		395	372	360	341	322	210	143
4	5.5	TV-RC3 020/10		488	465	452	432	405	259	180
4	5.5	TV-RC3 020/12		579	555	541	520	484	333	243
5.5	7.5	TV-RC3 020/14		671	640	620	589	539	362	272
5.5	7.5	TV-RC3 020/16		763	705	680	640	592	425	310

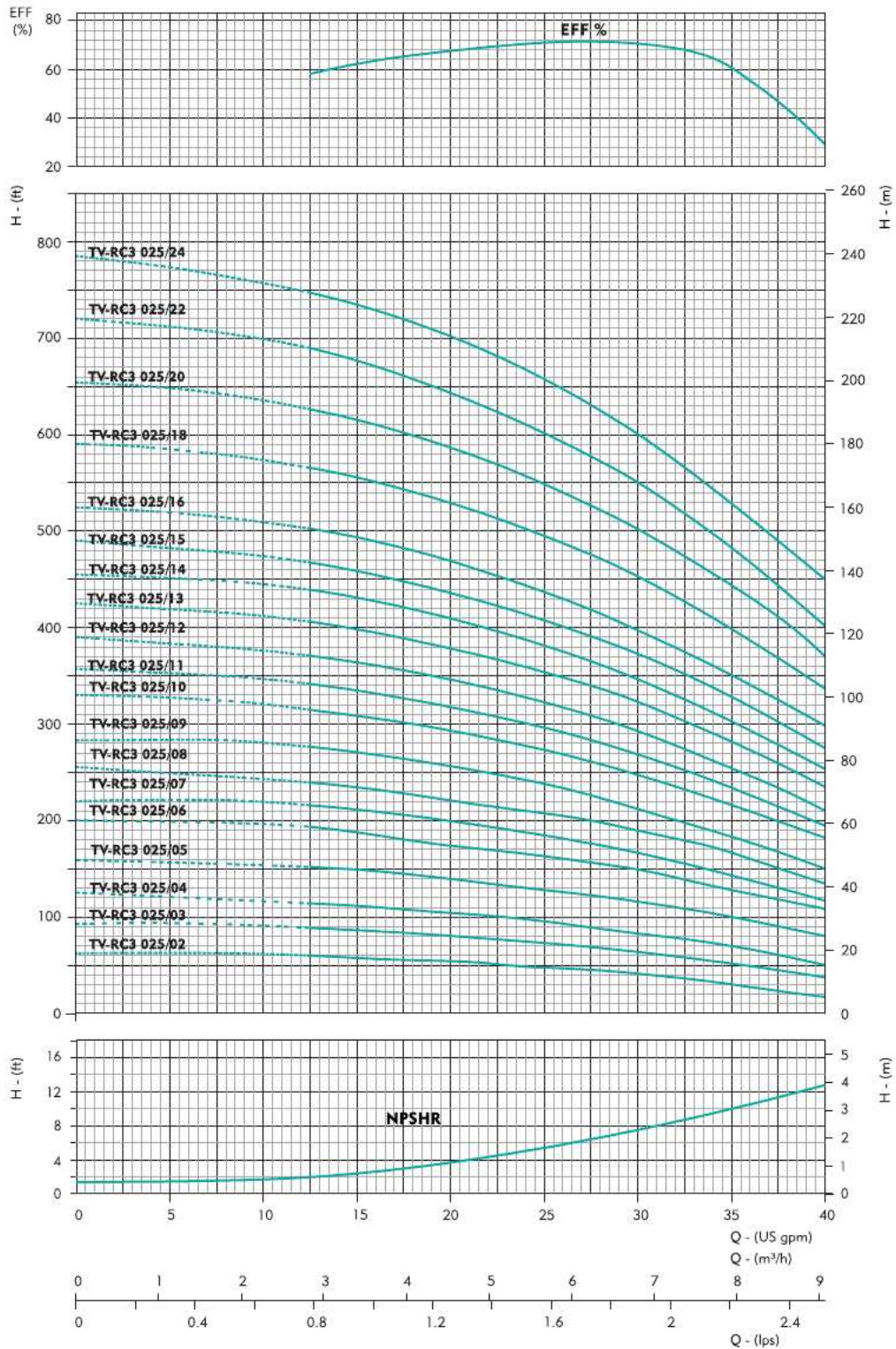
The 5th digit of the model identification "S" denotes 1 Phase & which will be replaced with "T" in case of 3 Phase D.O.L motors.
1 Phase motors only upto 4HP.

PERFORMANCE CURVES

PIPE SIZE : 1" x 1" / 1¼" x 1¼"

NOMINAL FLOW : 25gpm

3450 rpm



Note : The company reserves the right to modify the technical specification and illustrations without prior notice.

PERFORMANCE CURVES

PIPE SIZE : 1" x 1" / 1¼" x 1¼"

NOMINAL FLOW : 25gpm

3450 rpm

POWER		PUMP MODEL	m ³ /h	0	2.8	4.6	5.7	6.8	8	9.1
kW	HP			US gpm	0	12.5	20	25	30	35
0.55	0.75	TV-RC3 025/02	TOTAL MANOMETRIC HEAD IN FEET	62	60	54	48	41	30	18
1.1	1.5	TV-RC3 025/03		92	89	80	73	64	51	38
1.1	1.5	TV-RC3 025/04		125	114	104	95	82	70	50
1.5	2.0	TV-RC3 025/05		159	156	140	129	116	100	80
2.2	3.0	TV-RC3 025/06		200	193	174	162	150	129	109
2.2	3.0	TV-RC3 025/07		220	216	200	185	166	142	118
2.2	3.0	TV-RC3 025/08		255	240	220	208	190	166	135
2.2	3.0	TV-RC3 025/09		288	277	256	239	211	182	150
3.0	4.0	TV-RC3 025/10		330	315	292	273	248	217	182
3.0	4.0	TV-RC3 025/11		358	340	319	296	269	234	195
3.0	4.0	TV-RC3 025/12		390	370	347	322	292	254	210
4.0	5.5	TV-RC3 025/13		424	407	379	353	322	280	235
4.0	5.5	TV-RC3 025/14		455	440	410	380	345	302	253
4.0	5.5	TV-RC3 025/15		490	468	435	408	372	329	275
4.0	5.5	TV-RC3 025/16		525	502	470	439	398	350	300
5.5	7.5	TV-RC3 025/18		590	567	530	495	453	400	339
5.5	7.5	TV-RC3 025/20		653	632	587	549	501	445	370
5.5	7.5	TV-RC3 025/22		720	690	642	600	550	482	400
7.5	10	TV-RC3 025/24		785	748	701	658	600	530	450

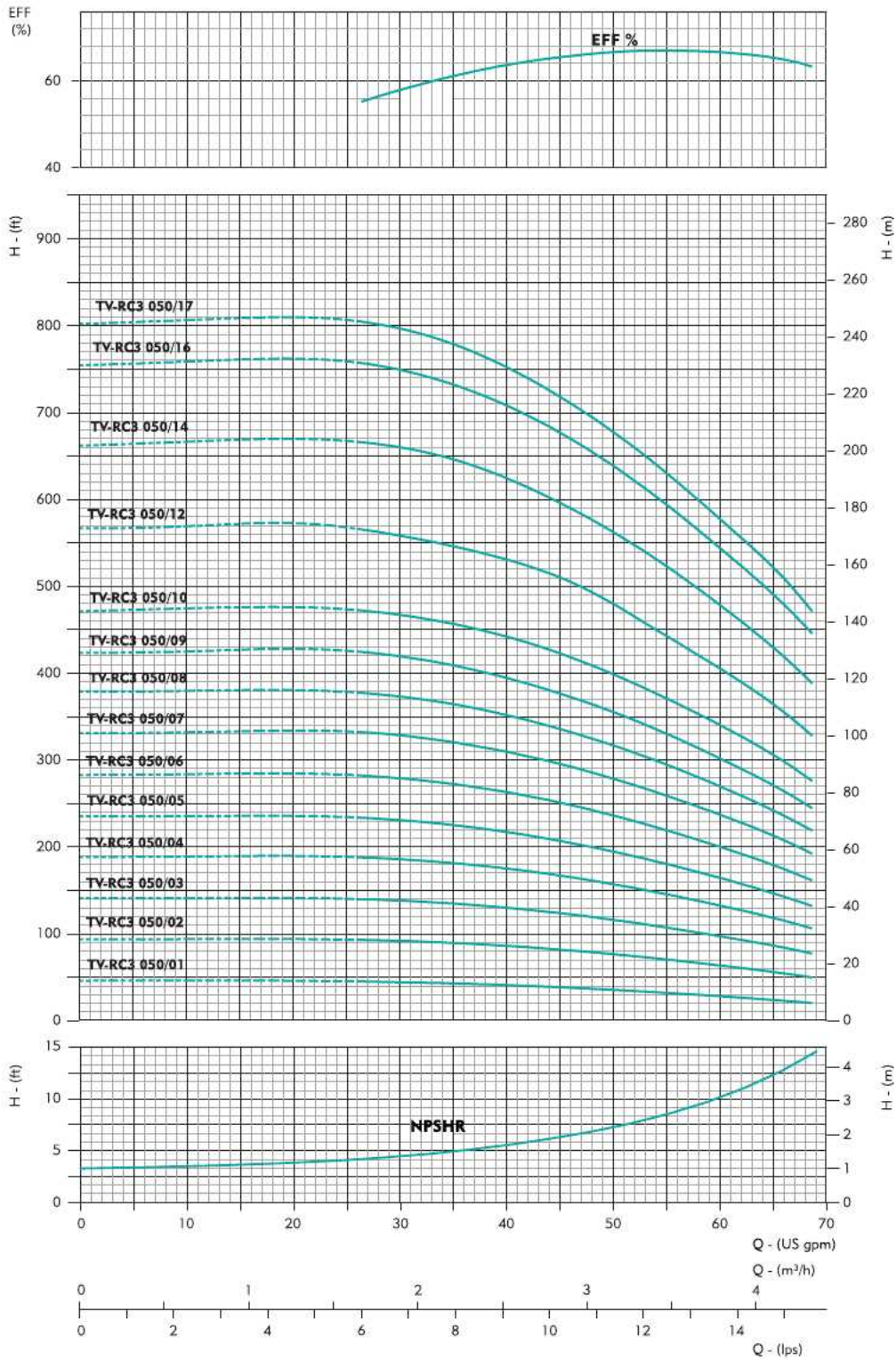
The 5th digit of the model identification "S" denotes 1 Phase & which will be replaced with "T" in case of 3 Phase D.O.L motors.
1 Phase motors only upto 4HP.

PERFORMANCE CURVES

PIPE SIZE : 1½" x 1½"

NOMINAL FLOW : 50gpm

3450 rpm



Note : The company reserves the right to modify the technical specification and illustrations without prior notice.

PERFORMANCE CURVES

PIPE SIZE : 1½" x 1½"

NOMINAL FLOW : 50gpm

3450 rpm

POWER		PUMP MODEL	m ³ /h	0	2.3	4.5	6.8	9.1	11.4	13.6	15.7
kW	HP			US gpm	0	10	20	30	40	50	60
0.55	0.75	TV-RC3 050/01	HEAD IN METRES	45	45	44.5	43	39.5	34	26.7	18.5
1.1	1.5	TV-RC3 050/02		92.5	92.5	92	90	84	74	60.5	46.5
2.2	3.0	TV-RC3 050/03		140	140	139.5	139	130	116.5	98	71.5
2.2	3.0	TV-RC3 050/04		187	187	186.5	183	172	152	128	101.5
4.0	5.5	TV-RC3 050/05		235	235	234.5	231	217.5	194	163	131
4.0	5.5	TV-RC3 050/06		280	280	279.5	276.5	258.5	231	194	155
5.5	7.5	TV-RC3 050/07		327	327	326.5	319	299.5	267	223	178
5.5	7.5	TV-RC3 050/08		373.5	373	372	369.5	348	311	262	210
5.5	7.5	TV-RC3 050/09		421	421	420	413	388	346.5	293	233.7
5.5	7.5	TV-RC3 050/10		466.5	466.5	466	457	429	387	321	257.5
7.5	10	TV-RC3 050/12		559	559	558	544	510	455	383	306
11	15	TV-RC3 050/14		650	546	645	628	588	523	436	348
11	15	TV-RC3 050/16		747	747	746	731	687	614	516	418
11	15	TV-RC3 050/17		792.5	793.5	793	775	725.5	650	546.5	440.5

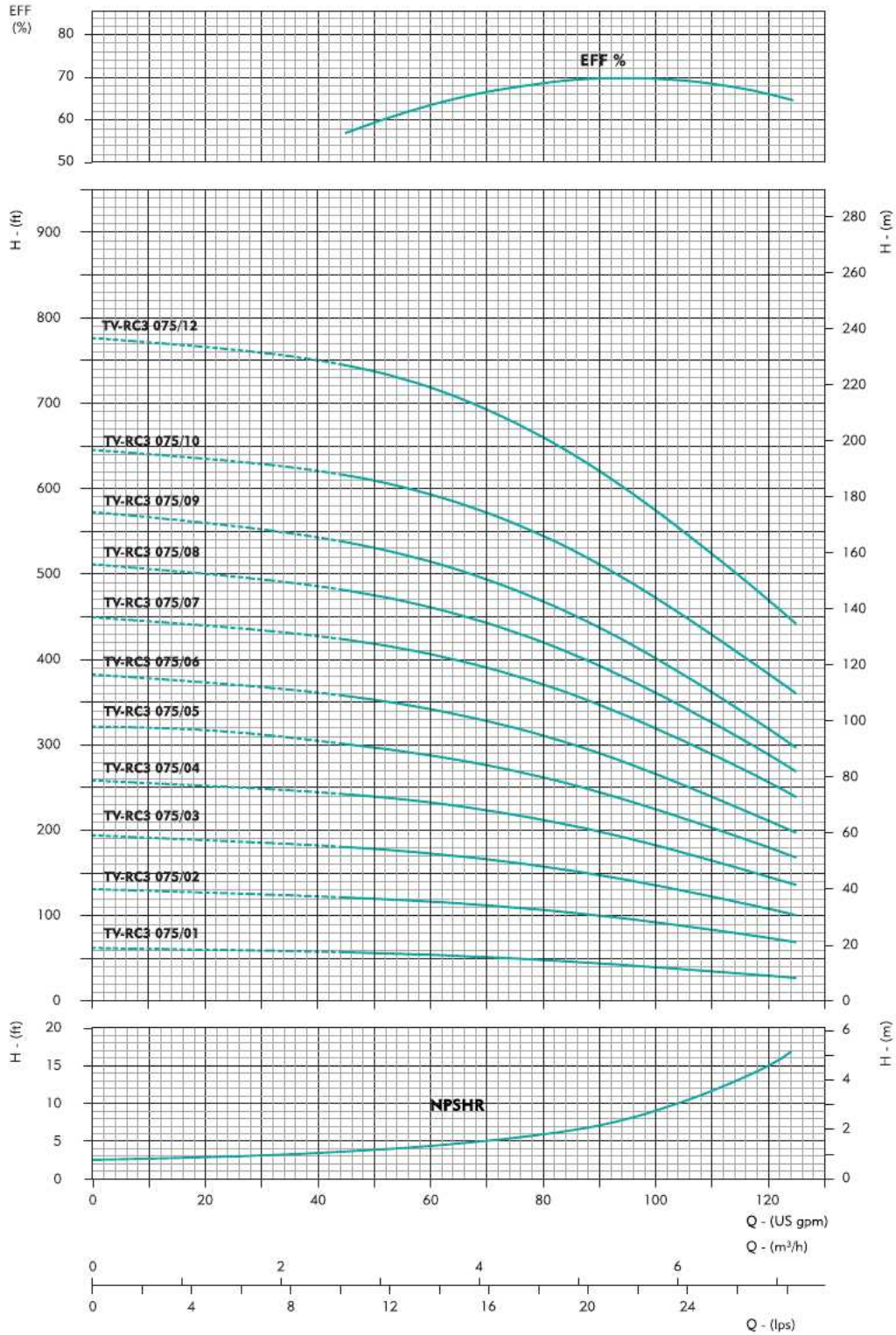
The 5th digit of the model identification "S" denotes 1 Phase & which will be replaced with "T" in case of 3 Phase D.O.L motors.
1 Phase motors only upto 4HP.

PERFORMANCE CURVES

PIPE SIZE : 2" x 2"

NOMINAL FLOW : 75gpm

3450 rpm



Note : The company reserves the right to modify the technical specification and illustrations without prior notice.

PERFORMANCE CURVES

PIPE SIZE : **2" x 2"**

NOMINAL FLOW : **75gpm**

3450 rpm

POWER		PUMP MODEL	m ³ /h	0	4.5	9.1	13.6	18.2	22.7	27.3	28.4
kW	HP			US gpm	0	20	40	60	80	100	120
1.5	2.0	TV-RC3 075/01	TOTAL MANOMETRIC HEAD IN FEET	62	60	58	54	48.5	40	30	27
4	5.5	TV-RC3 075/02		131	127	123	117	107	93	74	68
5.5	7.5	TV-RC3 075/03		194	188	183	173.5	158.5	136.5	106.5	100
5.5	7.5	TV-RC3 075/04		258	252	245	234	213	184	145.5	136
7.5	10	TV-RC3 075/05		321	320	304.5	289	264	226	180	168
11	15	TV-RC3 075/06		382	373	363	343	313	268	211	197
11	15	TV-RC3 075/07		449	440	429	408	373	321.5	257.5	238.5
11	15	TV-RC3 075/08		511	500.5	488	464	423	364	290	268
15	20	TV-RC3 075/09		572	560.5	545	517	471	405.5	319.5	296
15	20	TV-RC3 075/10		645	635	624	596.5	548.5	476	383	360
18.5	25	TV-RC3 075/12		776	766	753	722.5	664.5	579	470.5	441

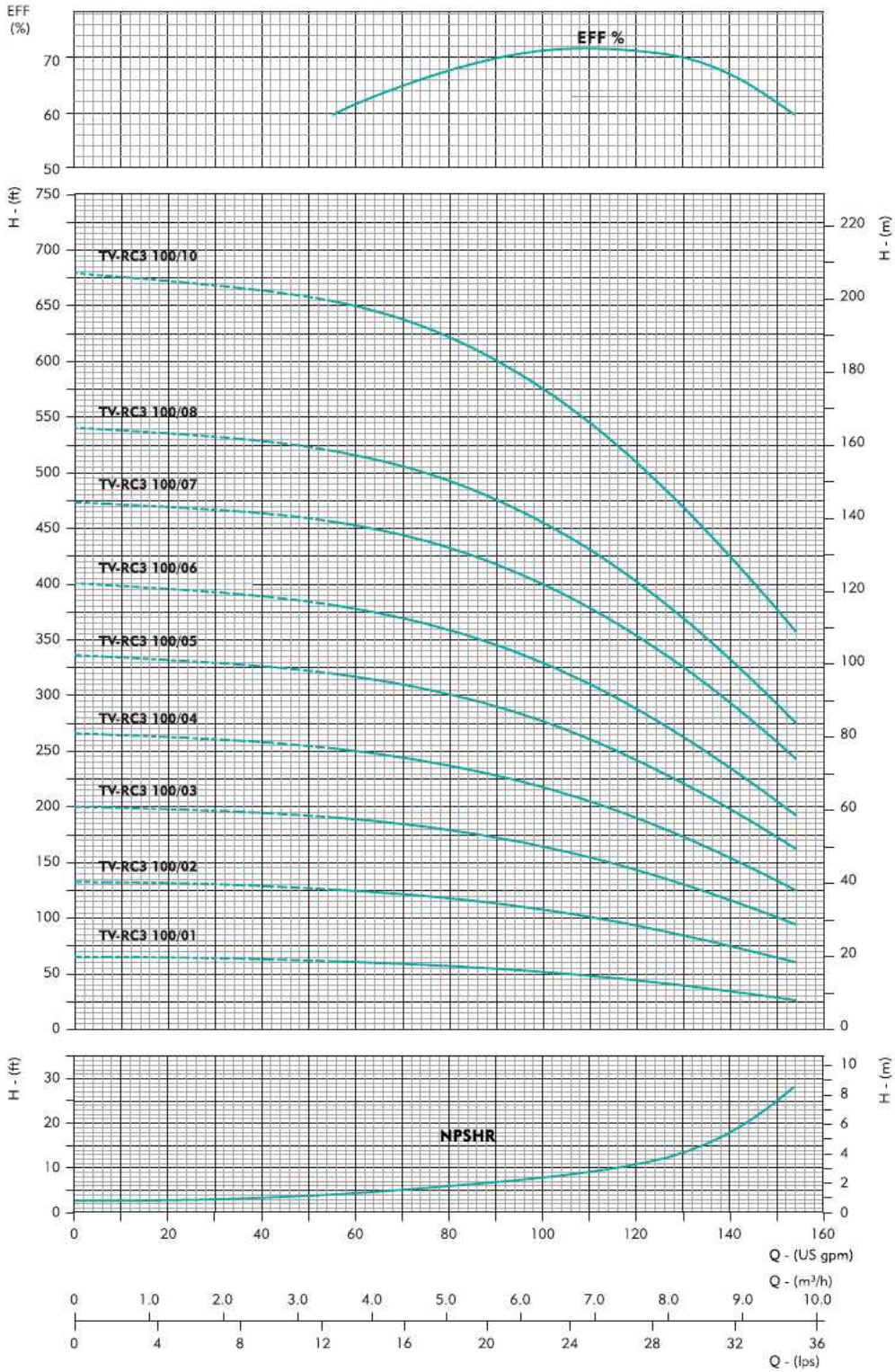
The 5th digit of the model identification "S" denotes 1 Phase & which will be replaced with "T" in case of 3 Phase D.O.L motors.
1 Phase motors only upto 4HP.

PERFORMANCE CURVES

PIPE SIZE : 2" x 2"

NOMINAL FLOW : 100gpm

3450 rpm



Note : The company reserves the right to modify the technical specification and illustrations without prior notice.

PERFORMANCE CURVES

PIPE SIZE : **2" x 2"**

NOMINAL FLOW : **100gpm**

3450 rpm

POWER		PUMP MODEL	m ³ /h	0	4.5	9.1	13.6	18.2	22.7	27.3	31.8	35.0
kW	HP		US gpm	0	20	40	60	80	100	120	140	154
2.2	3.0	TV-RC3 100/01	TOTAL MANOMETRIC HEAD IN FEET	65	65	63	60.5	57	52	44.5	34.5	26
4.0	5.5	TV-RC3 100/02		132.5	132	129	124.5	118	108	94	75	60
5.5	7.5	TV-RC3 100/03		200	198	195	189	180	165	144.5	116.5	94
7.5	10	TV-RC3 100/04		266	263	258.5	251	237.5	218.5	191.5	155	124.5
11	15	TV-RC3 100/05		336	332	327	318	302	278	243.5	199	162
11	15	TV-RC3 100/06		400.5	396	390	379	360	331	290	236	192
15	20	TV-RC3 100/07		473.5	468.5	464.5	454	434.5	401.5	356.5	296	243
15	20	TV-RC3 100/08		540.5	535.5	530	517	495	457	406	334.5	275
18.5	25	TV-RC3 100/10		679	672	664.5	652	624.5	578	513	427	357

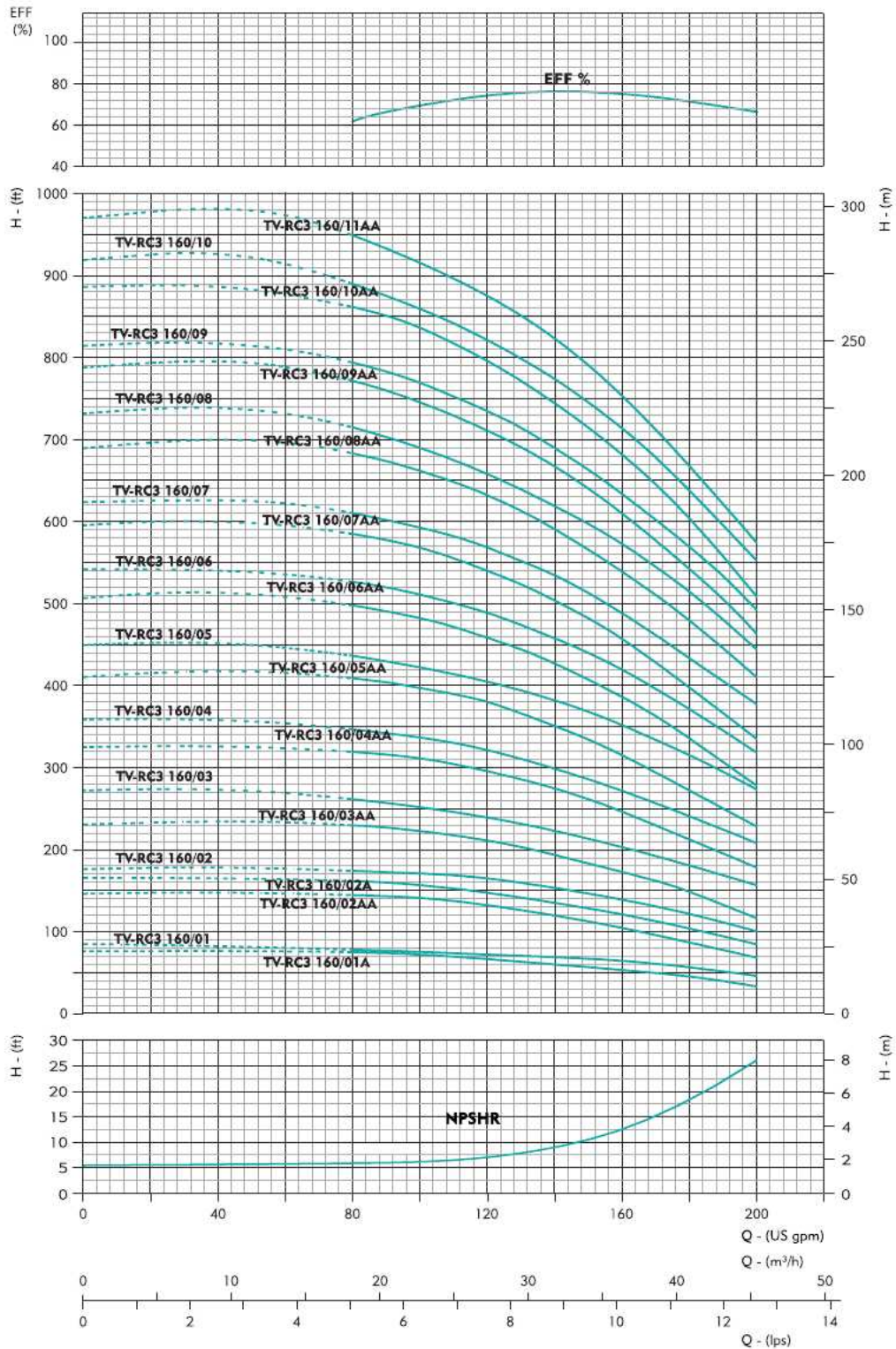
The 5th digit of the model identification "S" denotes 1 Phase & which will be replaced with "T" in case of 3 Phase D.O.L motors.
1 Phase motors only upto 4HP.

PERFORMANCE CURVES

PIPE SIZE : 2½" x 2½"

NOMINAL FLOW : 160gpm

3450 rpm



Note : The company reserves the right to modify the technical specification and illustrations without prior notice.

PERFORMANCE CURVES

PIPE SIZE : 2½" x 2½"

NOMINAL FLOW : 160gpm

3450 rpm

POWER		PUMP MODEL	m ³ /h	0	18.2	27.3	36.4	40.9	45.6
kW	HP		US gpm	0	80	120	160	180	200
2.2	3	TV-RC3 160/01A	TOTAL MANOMETRIC HEAD IN FEET	75	74	65	52	45	32
4	5.5	TV-RC3 160/01		85	79	71	65	58	48
5	7.5	TV-RC3 160/02AA		147	145	132	105	87	69
5	7.5	TV-RC3 160/02A		165	160	149	120	103	85
5	7.5	TV-RC3 160/02		175	172	165	140	121	100
7.5	10	TV-RC3 160/03AA		231	230	210	170	150	119
11	15	TV-RC3 160/03		271	251	240	201	180	155
11	15	TV-RC3 160/04AA		325	320	295	245	211	179
11	15	TV-RC3 160/04		359	345	321	270	240	209
15	20	TV-RC3 160/05AA		410	409	380	315	271	239
15	20	TV-RC3 160/05		450	436	404	350	325	274
18.5	25	TV-RC3 160/06AA		508	498	459	385	345	279
18.5	25	TV-RC3 160/06		541	527	490	420	370	319
18.5	25	TV-RC3 160/07AA		596	585	540	457	400	335
22	30	TV-RC3 160/07		622	610	570	490	431	379
22	30	TV-RC3 160/08AA		690	687	631	540	480	410
22	30	TV-RC3 160/0AA		731	715	659	572	512	442
30	40	TV-RC3 160/09AA		789	771	710	610	541	462
30	40	TV-RC3 160/09		813	793	735	632	570	492
30	40	TV-RC3 160/10AA		885	861	795	680	601	510
30	40	TV-RC3 160/10	920	890	820	710	640	551	
30	40	TV-RC3 160/11AA	970	950	877	751	670	572	

* A / AA Denotes abridged version.

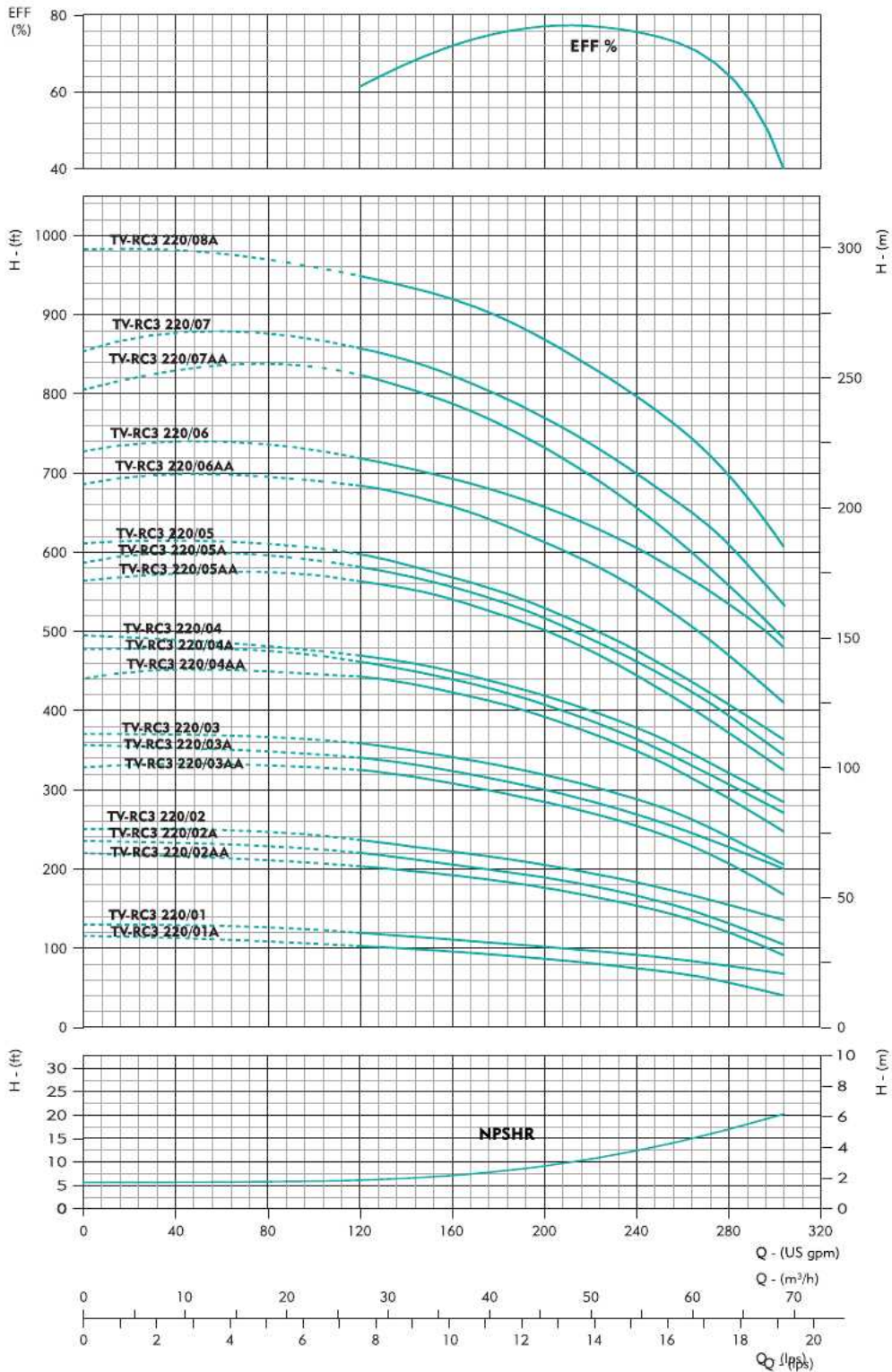
The 5th digit of the model identification "T" denotes 3 Phase D.O.L motors.

PERFORMANCE CURVES

PIPE SIZE : 3" x 3"

NOMINAL FLOW : 220gpm

3450 rpm



Note : The company reserves the right to modify the technical specification and illustrations without prior notice.

PERFORMANCE CURVES

PIPE SIZE : **3" x 3"**

NOMINAL FLOW : **220gpm**

3450 rpm

POWER		PUMP MODEL	m ³ /h	0	23.3	36.4	45.5	50	54.6	69.1
kW	HP			US gpm	0	120	160	200	220	240
5.5	7.5	TV-RC3 220/01A	TOTAL MANOMETRIC HEAD IN FEET	116	102	97	87	80	75	40
5.5	7.5	TV-RC3 220/01		130	120	110	101	98	91	70
11	15	TV-RC3 220/02AA		220	203	192	179	166	155	90
11	15	TV-RC3 220/02A		237	220	205	190	180	168	105
11	15	TV-RC3 220/02		250	237	221	205	194	182	135
15	20	TV-RC3 220/03AA		328	323	308	284	271	255	170
18.5	25	TV-RC3 220/03A		358	340	322	300	286	270	200
18.5	25	TV-RC3 220/03		370	359	341	320	304	290	208
22	30	TV-RC3 220/04AA		440	442	422	392	371	350	250
22	30	TV-RC3 220/04A		479	460	440	410	390	364	270
22	30	TV-RC3 220/04		496	470	450	420	400	380	285
30	40	TV-RC3 220/05AA		565	562	540	500	476	442	325
30	40	TV-RC3 220/05A		587	580	555	518	491	460	345
30	40	TV-RC3 220/05		612	598	568	530	504	478	365
37	50	TV-RC3 220/06AA		685	684	658	612	587	555	410
37	50	TV-RC3 220/06		728	720	691	658	632	608	480
37	50	TV-RC3 220/07AA		805	823	787	730	698	658	490
45	60	TV-RC3 220/07		855	858	822	770	739	700	537
45	60	TV-RC3 220/08A	982	950	920	870	834	798	610	

* A / AA Denotes abridged version.

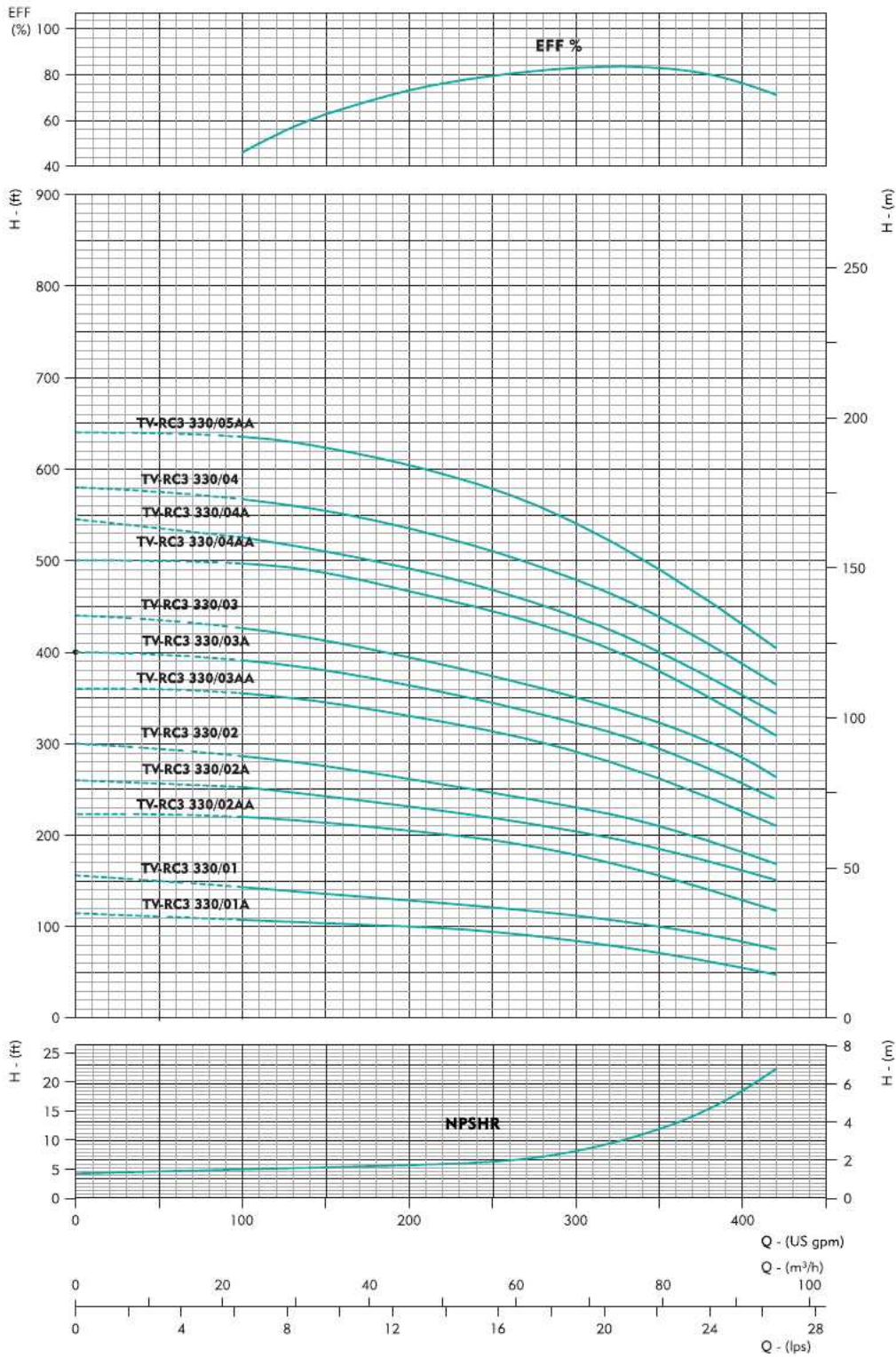
The 5th digit of the model identification "T" denotes 3 Phase D.O.L motors.

PERFORMANCE CURVES

PIPE SIZE : 4" x 4"

NOMINAL FLOW : 330gpm

3450 rpm



Note : The company reserves the right to modify the technical specification and illustrations without prior notice.

PERFORMANCE CURVES

PIPE SIZE : **4" x 4"**

NOMINAL FLOW : **330gpm**

3450 rpm

POWER		PUMP MODEL	m ³ /h	0	22.7	45.6	68.2	75	90.9	95.6
kW	HP		US gpm	0	100	200	300	330	400	420
7.5	10	TV-RC3 330/01A		116	108	100	88	78	55	48
11	15	TV-RC3 330/01		157	143	128	112	105	82	78
15	20	TV-RC3 330/02AA		224	220	204	178	165	130	118
18.5	25	TV-RC3 330/02A		260	252	234	203	193	160	150
22	30	TV-RC3 330/02		300	284	260	230	220	180	170
22	30	TV-RC3 330/03AA		360	353	330	291	272	224	210
30	40	TV-RC3 330/03A		400	390	363	322	309	255	240
30	40	TV-RC3 330/03		440	426	392	350	334	284	262
37	50	TV-RC3 330/04AA		500	496	468	417	396	330	310
37	50	TV-RC3 330/04A		546	525	494	439	419	352	332
45	60	TV-RC3 330/04		580	565	536	480	458	384	364
45	60	TV-RC3 330/05AA		640	636	605	540	511	430	402

* A / AA Denotes abridged version.

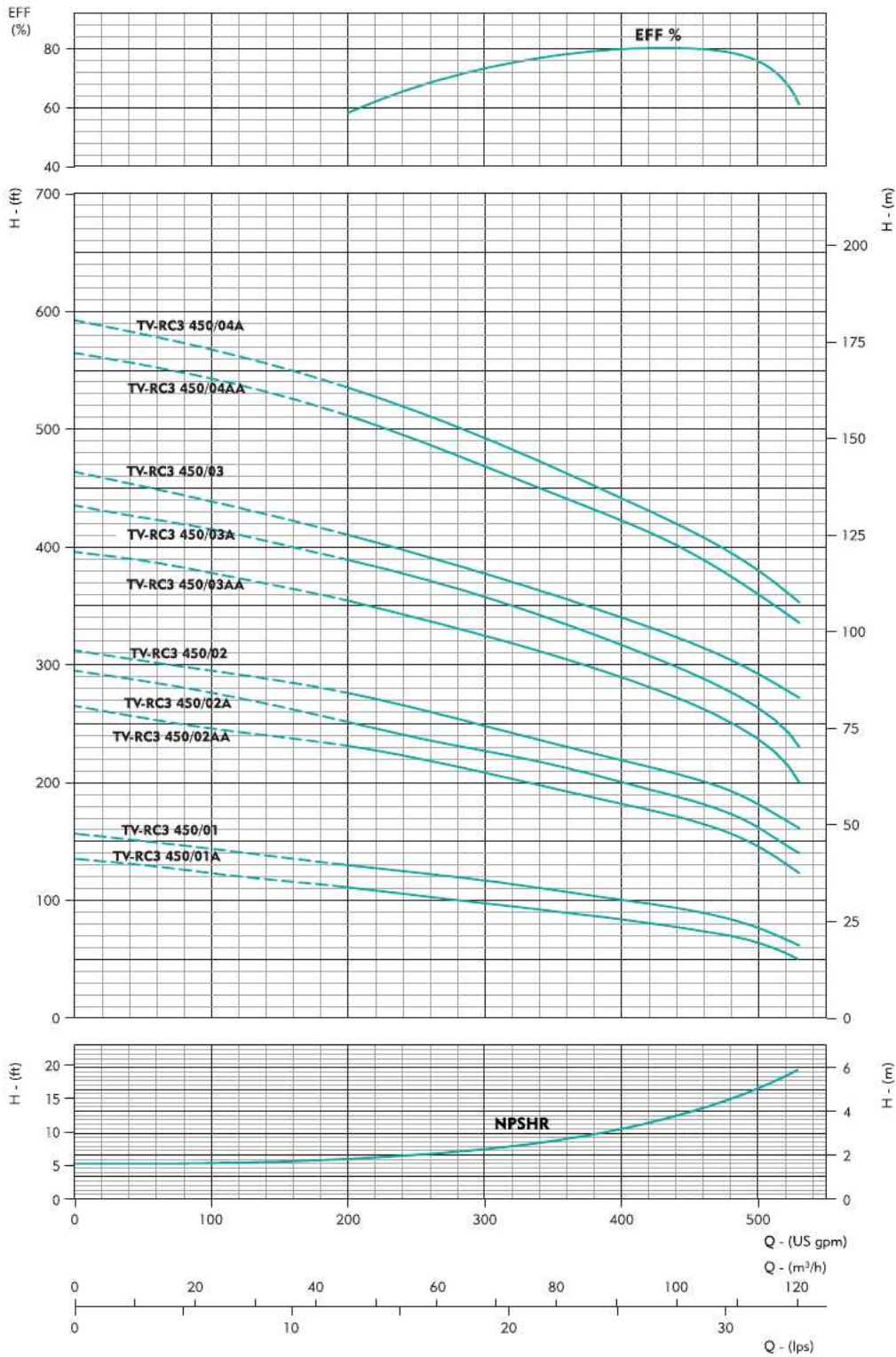
The 5th digit of the model identification "T" denotes 3 Phase D.O.L motors.

PERFORMANCE CURVES

PIPE SIZE : 4" x 4"

NOMINAL FLOW : 450gpm

3450 rpm



Note : The company reserves the right to modify the technical specification and illustrations without prior notice.

PERFORMANCE CURVES

PIPE SIZE : **4" x 4"**

NOMINAL FLOW : **450gpm**

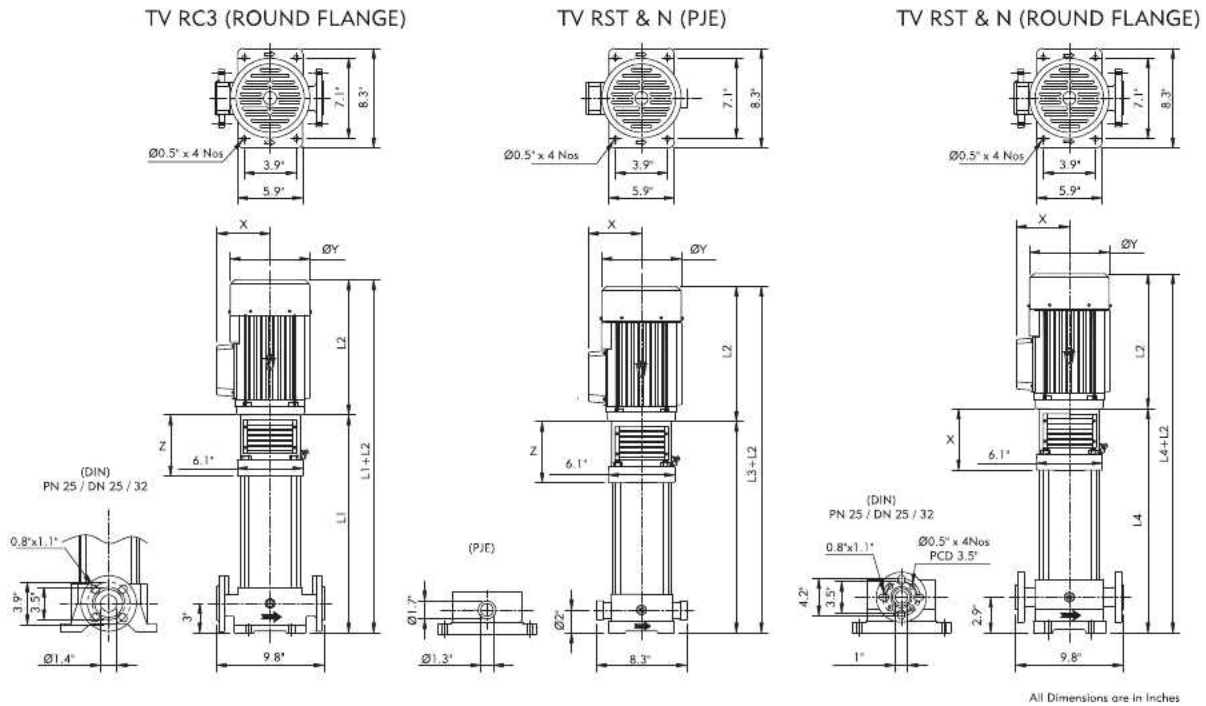
3450 rpm

POWER		PUMP MODEL	m ³ /h	0	45.6	68.2	90.9	102.3	113.6	120.5
kW	HP			US gpm	0	200	300	400	450	500
11	15	TV-RC3 450/01A	TOTAL MANOMETRIC HEAD IN FEET	135	111	97	83	75	64	50
15	20	TV-RC3 450/01		157	130	117	100	91	78	61
18.5	25	TV-RC3 450/02AA		265	231	208	182	169	146	122
22	30	TV-RC3 450/02A		295	251	227	200	185	161	140
30	40	TV-RC3 450/02		312	276	247	220	204	180	161
30	40	TV-RC3 450/03AA		395	354	324	290	268	238	200
37	50	TV-RC3 450/03A		435	389	358	317	292	263	230
37	50	TV-RC3 450/03		464	410	378	340	320	291	270
45	60	TV-RC3 450/04AA		564	511	469	423	395	360	335
45	60	TV-RC3 450/04A		592	535	493	440	414	380	352

* A / AA Denotes abridged version.

The 5th digit of the model identification "T" denotes 3 Phase D.O.L motors.

DIMENSION DRAWINGS & DATA



PIPE SIZE : 1" x 1" / 1/4" x 1/4"

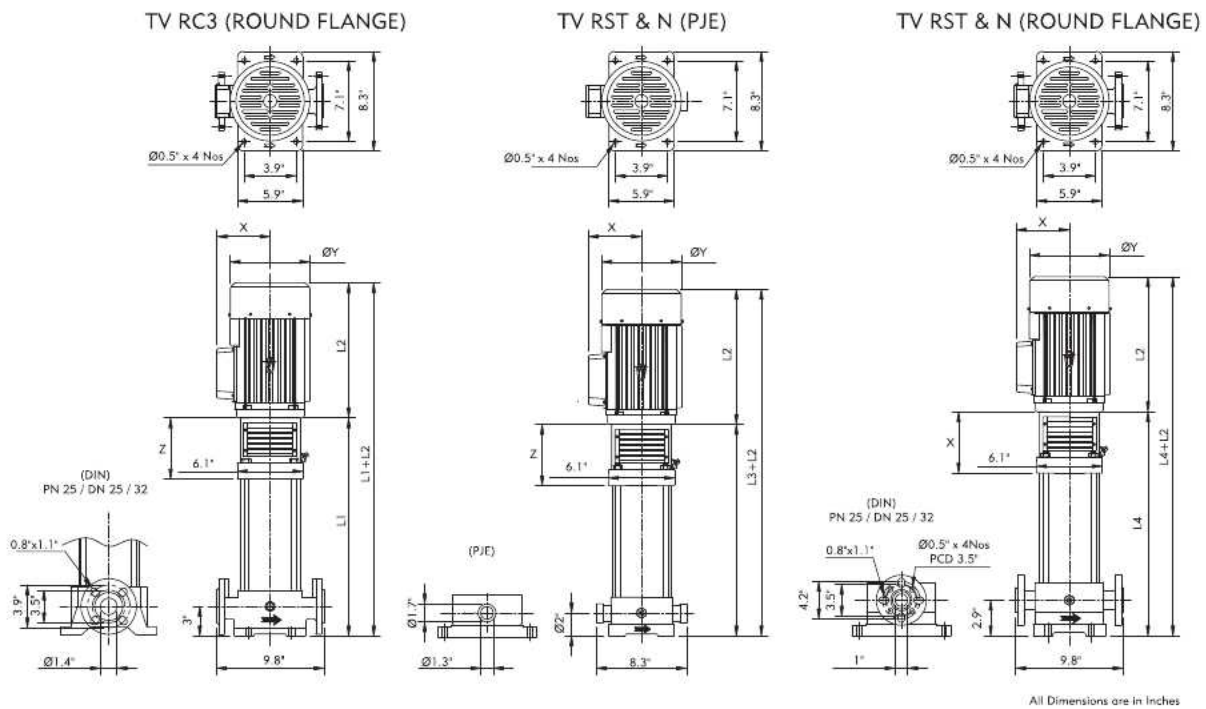
NOMINAL FLOW : 05gpm

POWER		PUMP MODEL	APPROX. DIMENSIONS (Inch)								APPROX. WEIGHT (lbs)				
kW	HP		L1 TVC	L2		L3 TVS/N (PJE)	L4 TVS/N	X	Y (Ø)	Z	PUMP			MOTOR	
				1Ph	3Ph						TVC	TVS/N (PJE)	TVS / N	1Ph	3Ph
0.37	0.5	TV-RC3 05/02	10.6	8.7	8.5	9.8	10.7	4.4	5.5	5.7	41	29	33	20	18
0.37	0.5	TV-RC3 05/03	11.3	8.7	8.5	10.5	11.5	4.4	5.5	5.7	42	31	34	20	18
0.37	0.5	TV-RC3 05/04	12.0	8.7	8.5	11.2	12.2	4.4	5.5	5.7	44	32	36	20	18
0.55	0.75	TV-RC3 05/05	12.7	9.5	9.1	11.9	12.9	4.4	5.5	5.7	45	33	37	22	20
0.55	0.75	TV-RC3 05/06	13.4	9.5	9.1	12.6	13.6	4.4	5.5	5.7	46	35	38	22	20
0.75	1.0	TV-RC3 05/07	14.1	10.5	9.9	13.3	14.3	4.4	5.5	5.7	48	36	40	27	31
0.75	1.0	TV-RC3 05/08	14.8	10.5	9.9	14.1	15.0	4.4	5.5	5.7	49	37	41	27	31
0.75	1.0	TV-RC3 05/09	15.6	10.5	9.9	14.8	15.7	4.4	5.5	5.7	50	39	42	27	31
1.1	1.50	TV-RC3 05/10	16.3	11.2	10.4	15.5	16.4	4.6	6.3	5.7	52	40	44	33	31
1.1	1.50	TV-RC3 05/11	17.0	11.2	10.4	16.2	17.1	4.6	6.3	5.7	53	41	45	33	31
1.1	1.50	TV-RC3 05/12	17.7	11.2	10.4	16.9	17.8	4.6	6.3	5.7	54	43	46	33	31
1.1	1.50	TV-RC3 05/13	18.4	11.2	10.4	17.6	18.5	4.6	6.3	5.7	56	44	47	33	31
1.5	2.0	TV-RC3 05/15	19.8	11.6	11.6	19.0	20.0	5.4	7.4	6.4	58	47	50	44	44
1.5	2.0	TV-RC3 05/17	21.2	11.6	11.6	20.4	21.4	5.4	7.4	6.4	61	49	53	44	44
2.2	3.0	TV-RC3 05/19	22.6	12.6	11.6	21.9	22.8	5.4	7.4	6.4	64	52	55	53	44
2.2	3.0	TV-RC3 05/21	24.1	12.6	11.6	23.3	24.2	5.4	7.4	6.4	66	55	58	53	44
2.2	3.0	TV-RC3 05/23	25.5	12.6	11.6	24.7	25.6	5.4	7.4	6.4	69	57	61	53	44
2.2	3.0	TV-RC3 05/25	27.6	12.6	11.6	26.8	27.8	5.4	7.4	6.4	71	60	63	53	44
3.0	4.0	TV-RC3 05/27	29.0	-	12.6	28.2	29.2	5.4	7.4	6.4	74	63	66	-	53

The third digit of this pump model denotes types of connection. Letter 'R' stands for Round Flange and it will be replaced with 'L' and 'P' for Oval Flange & PJE connection.

Note : The company reserves the right to modify the technical specification and illustrations without prior notice.

DIMENSION DRAWINGS & DATA



PIPE SIZE : 1" x 1" / 1/4" x 1/4"

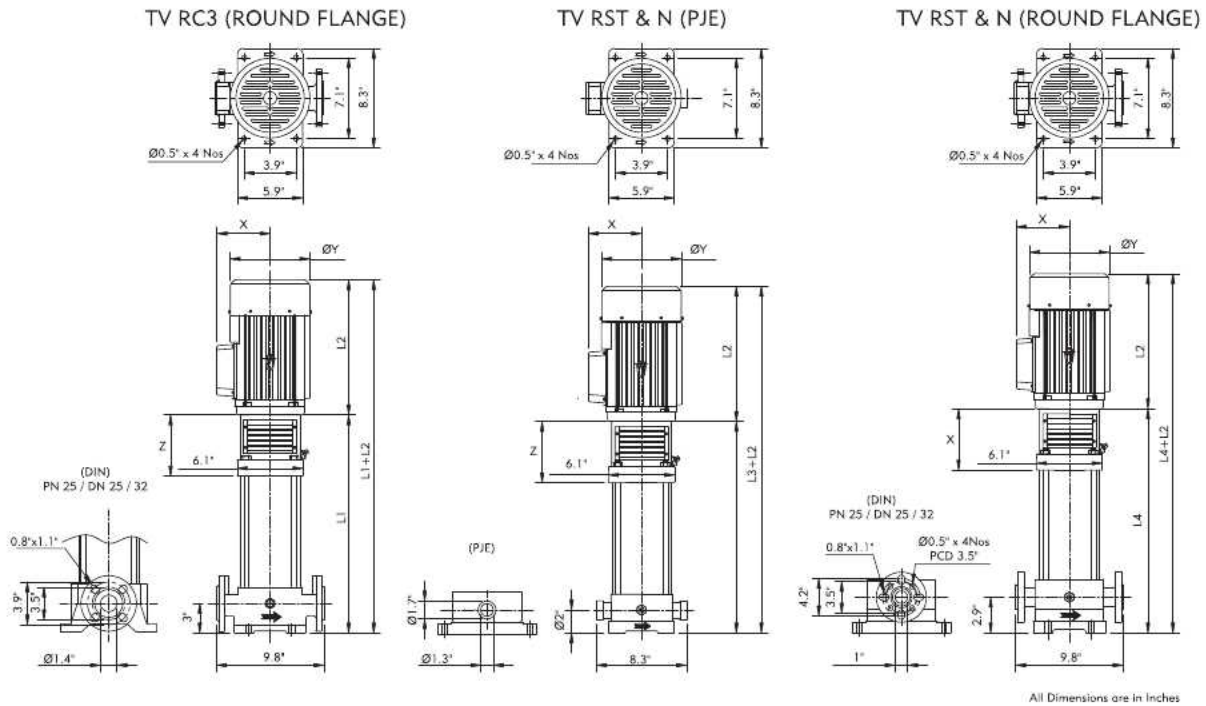
NOMINAL FLOW : 010gpm

POWER		PUMP MODEL	APPROX. DIMENSIONS (Inch)								APPROX. WEIGHT (lbs)				
kW	HP		L1 TVC	L2		L3 TVS/N (PJE)	L4 TVS/N	X	Y (Ø)	Z	PUMP			MOTOR	
				1Ph	3Ph						TVC	TVS/N (PJE)	TVS / N	1Ph	3Ph
0.37	0.5	TV-RC3 010/02	10.6	8.7	8.5	9.8	10.7	4.4	5.5	5.7	41	29	33	20	18
0.55	0.75	TV-RC3 010/03	11.3	9.5	9.1	10.5	11.5	4.4	5.5	5.7	42	31	35	22	20
0.75	1.0	TV-RC3 010/04	12.0	10.5	9.9	11.2	12.2	4.4	5.5	5.7	44	33	36	26	31
1.1	1.5	TV-RC3 010/05	12.7	11.2	10.4	11.9	12.9	4.6	6.3	5.7	46	34	38	33	31
1.1	1.5	TV-RC3 010/06	13.4	11.2	10.4	12.6	13.6	4.6	6.3	5.7	47	36	39	33	31
1.5	2.0	TV-RC3 010/07	14.1	11.6	11.6	13.3	14.3	5.4	7.4	6.4	50	38	42	44	44
2.2	3.0	TV-RC3 010/08	14.8	12.6	11.6	14.1	15.0	5.4	7.4	6.4	51	40	43	53	53
2.2	3.0	TV-RC3 010/09	15.6	12.6	11.6	14.8	15.7	5.4	7.4	6.4	53	41	45	53	53
2.2	3.0	TV-RC3 010/10	16.3	12.6	11.6	15.5	16.4	5.4	7.4	6.4	54	43	46	53	53
2.2	3.0	TV-RC3 010/11	17.0	12.6	11.6	16.2	17.1	5.4	7.4	6.4	56	44	48	53	53
2.2	3.0	TV-RC3 010/12	17.7	12.6	11.6	18.3	19.3	5.4	7.4	6.4	57	46	50	53	53
3	4.0	TV-RC3 010/13	19.1	-	12.6	19.0	20.0	5.4	7.4	6.4	59	48	51	-	53
3	4.0	TV-RC3 010/15	20.5	-	12.6	19.7	20.7	5.4	7.4	6.4	62	51	54	-	53
4	5.5	TV-RC3 010/18	22.6	-	13.9	21.9	22.8	5.4	7.4	6.4	67	55	59	-	61

The third digit of this pump model denotes types of connection. Letter 'R' stands for Round Flange and it will be replaced with 'L' and 'P' for Oval Flange & PJE connection.

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DIMENSION DRAWINGS & DATA



PIPE SIZE : 1" x 1" / 1/4" x 1/4"

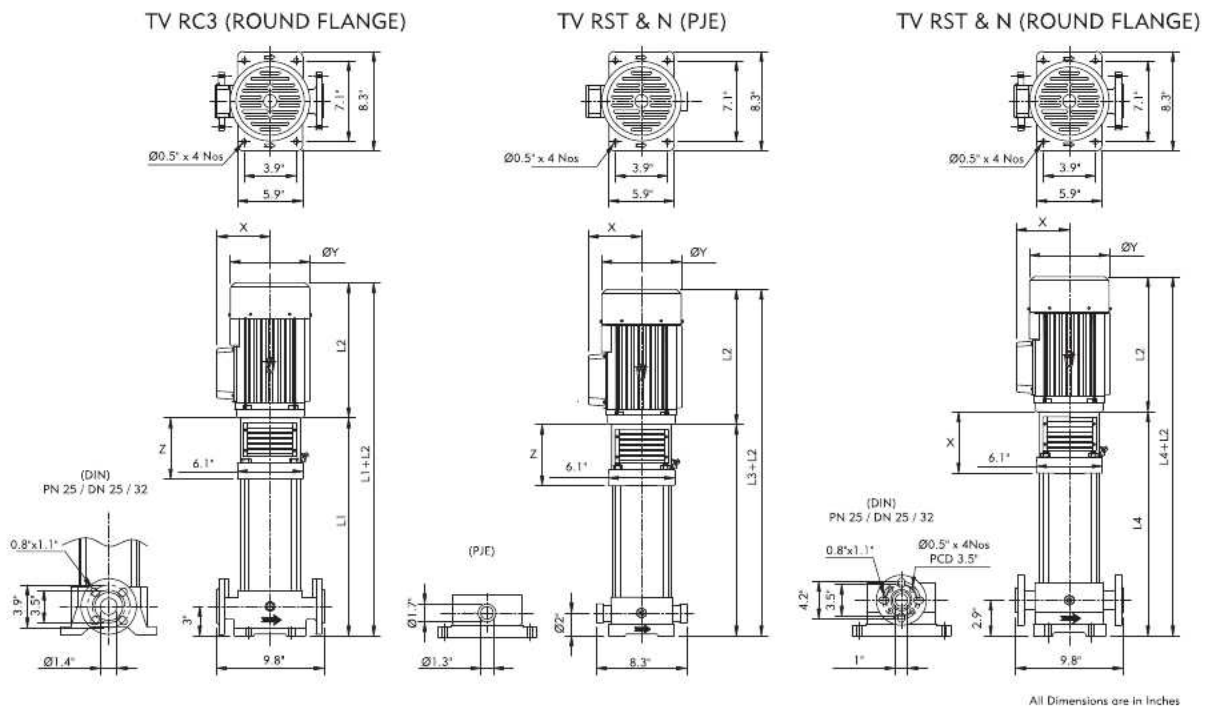
NOMINAL FLOW : 015gpm

POWER		PUMP MODEL	APPROX. DIMENSIONS (Inch)								APPROX. WEIGHT (lbs)				
kW	HP		L1 TVC	L2		L3 TVS/N (PJE)	L4 TVS/N	X	Y (Ø)	Z	PUMP			MOTOR	
				1Ph	3Ph						TVC	TVS/N (PJE)	TVS / N	1Ph	3Ph
0.37	0.50	TV-RC3 015/02	10.6	8.7	8.5	9.8	10.7	4.4	5.5	5.7	41	29	33	20	18
0.55	0.75	TV-RC3 015/03	11.3	8.7	8.5	10.5	11.5	4.4	5.5	5.7	42	31	34	22	20
0.55	0.75	TV-RC3 015/04	12.0	9.5	9.1	11.2	12.2	4.4	5.5	5.7	43	32	36	22	20
0.75	1.0	TV-RC3 015/05	12.7	10.5	9.9	11.9	12.9	4.4	5.5	5.7	45	33	37	26	31
1.1	1.5	TV-RC3 015/06	13.4	11.2	10.4	12.6	13.6	4.6	6.3	5.7	46	35	38	33	31
1.1	1.5	TV-RC3 015/07	14.1	11.2	10.4	13.3	14.3	4.6	6.3	5.7	47	36	39	33	31
1.1	1.5	TV-RC3 015/08	14.8	11.2	10.4	14.1	15.0	4.6	6.3	5.7	49	37	41	33	31
1.5	2.0	TV-RC3 015/09	15.6	11.6	11.6	14.8	15.7	5.4	7.4	6.4	51	40	43	44	44
1.5	2.0	TV-RC3 015/10	16.3	11.6	11.6	15.5	16.4	5.4	7.4	6.4	52	41	45	44	44
1.5	2.0	TV-RC3 015/11	17.0	11.6	11.6	16.2	17.1	5.4	7.4	6.4	54	42	46	44	44
2.2	3.0	TV-RC3 015/12	17.7	12.6	11.6	16.9	17.8	5.4	7.4	6.4	55	44	47	53	44
2.2	3.0	TV-RC3 015/13	18.4	12.6	11.6	17.6	18.5	5.4	7.4	6.4	56	45	49	53	44
2.2	3.0	TV-RC3 015/15	19.8	12.6	11.6	19.0	20.0	5.4	7.4	6.4	59	48	51	53	44
2.2	3.0	TV-RC3 015/17	21.9	12.6	11.6	21.1	22.1	5.4	7.4	6.4	62	50	54	53	44
3.0	4.0	TV-RC3 015/19	23.3	-	12.6	22.6	23.5	5.4	7.4	6.4	64	53	56	-	53
3.0	4.0	TV-RC3 015/21	24.8	-	12.6	24.0	24.9	5.4	7.4	6.4	67	56	59	-	53
3.0	4.0	TV-RC3 015/23	26.2	-	12.6	25.4	26.3	5.4	7.4	6.4	70	58	62	-	53
3.0	4.0	TV-RC3 015/25	27.6	-	12.6	26.8	27.8	5.4	7.4	6.4	72	61	64	-	53

The third digit of this pump model denotes types of connection. Letter 'R' stands for Round Flange and it will be replaced with 'L' and 'P' for Oval Flange & PJE connection.

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DIMENSION DRAWINGS & DATA



PIPE SIZE : 1" x 1" / 1/4" x 1/4"

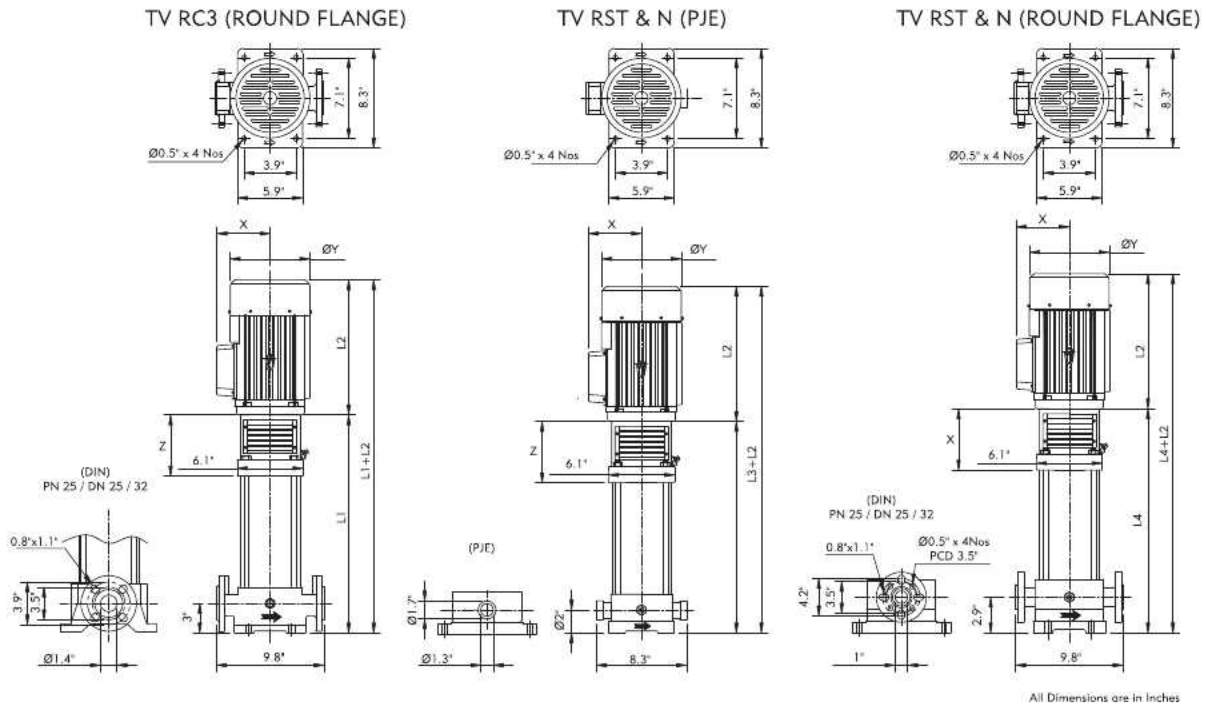
NOMINAL FLOW : 020gpm

POWER		PUMP MODEL	APPROX. DIMENSIONS (Inch)								APPROX. WEIGHT (lbs)				
kW	HP		L1 TVC	L2		L3 TVS/N (PJE)	L4 TVS/N	X	Y (Ø)	Z	PUMP			MOTOR	
				1Ph	3Ph						TVC	TVS/N (PJE)	TVS / N	1Ph	3Ph
0.37	0.5	TV-RC3 020/01	11.3	8.7	8.5	10.5	11.5	4.4	5.5	5.7	48	37	40	20	18
0.75	1.0	TV-RC3 020/02	11.3	10.5	9.9	11.6	12.5	4.4	5.5	5.7	50	38	42	26	31
0.75	1.0	TV-RC3 020/03	12.4	10.5	9.9	12.6	13.6	4.4	5.5	5.7	51	40	43	26	31
1.5	2.0	TV-RC3 020/04	13.4	11.6	11.6	13.7	14.6	4.6	7.4	6.4	54	42	46	44	44
2.2	3.0	TV-RC3 020/05	14.5	12.6	11.6	14.8	15.7	4.6	7.4	6.4	55	44	48	53	44
2.2	3.0	TV-RC3 020/06	15.6	12.6	11.6	15.8	16.8	5.4	7.4	6.4	57	46	49	53	44
3	4.0	TV-RC3 020/07	17.3	-	12.6	17.6	18.5	5.4	7.4	6.4	59	47	51	-	47
3	4.0	TV-RC3 020/08	18.4	-	12.6	18.7	19.6	5.4	7.4	6.4	60	49	52	-	47
4	5.5	TV-RC3 020/10	20.5	-	13.9	20.8	21.7	5.4	7.4	6.4	63	52	55	-	61
4	5.5	TV-RC3 020/12	22.6	-	13.9	22.9	23.9	5.4	7.4	6.4	66	55	58	-	61
5.5	7.5	TV-RC3 020/14	24.8	-	15.2	25.0	26.0	8.0	8.0	7.8	72	60	64	-	91
5.5	7.5	TV-RC3 020/16	26.9	-	15.2	27.2	28.1	8.0	8.0	7.8	75	63	67	-	91

The third digit of this pump model denotes types of connection. Letter 'R' stands for Round Flange and it will be replaced with 'L' and 'P' for Oval Flange & PJE connection.

Note : The company reserves the right to modify the technical specification and illustrations without prior notice.

DIMENSION DRAWINGS & DATA



PIPE SIZE : 1" x 1" / 1¼" x 1¼"

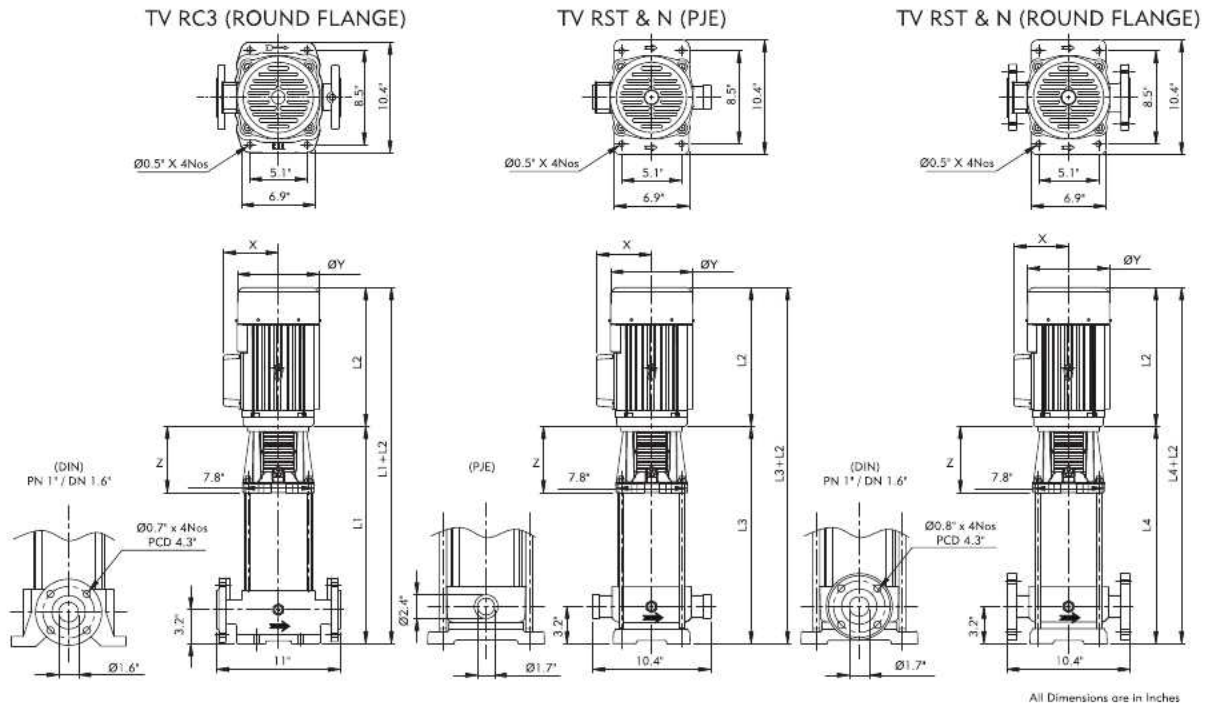
NOMINAL FLOW : 025gpm

POWER		PUMP MODEL	APPROX. DIMENSIONS (Inch)								APPROX. WEIGHT (lbs)				
kW	HP		L1 MVC	L2		L3 MVS/N (PJE)	L4 MVS/N	X	Y (Ø)	Z	PUMP			MOTOR	
				1Ph	3Ph						MVC	MVS/N (PJE)	MVS / N	1Ph	3Ph
0.55	0.75	TV-RC3 025/02	11.3	9.5	9.1	10.5	11.5	4.4	5.5	5.7	50	38	42	22	20
1.1	1.5	TV-RC3 025/03	12.4	11.2	10.4	11.6	12.5	4.6	6.3	5.7	52	40	44	33	31
1.1	1.5	TV-RC3 025/04	13.4	11.2	10.4	12.6	13.6	4.6	6.3	5.7	54	42	46	33	31
1.5	2.0	TV-RC3 025/05	14.5	11.6	11.6	13.7	14.6	5.4	7.4	6.4	57	45	49	44	44
2.2	3.0	TV-RC3 025/06	15.6	12.6	11.6	14.8	15.7	5.4	7.4	6.4	59	47	51	53	44
2.2	3.0	TV-RC3 025/07	16.6	12.6	11.6	15.8	16.8	5.4	7.4	6.4	61	49	53	53	44
2.2	3.0	TV-RC3 025/08	17.7	12.6	11.6	16.9	17.8	5.4	7.4	6.4	63	51	55	53	44
2.2	3.0	TV-RC3 025/09	19.4	12.6	11.6	18.7	19.6	5.4	7.4	6.4	65	53	57	53	44
3.0	4.0	TV-RC3 025/10	20.5	-	12.6	19.7	20.7	5.4	7.4	6.4	67	55	59	-	53
3.0	4.0	TV-RC3 025/11	21.6	-	12.6	20.8	21.7	5.4	7.4	6.4	69	57	61	-	53
3.0	4.0	TV-RC3 025/12	22.6	-	12.6	21.9	22.8	5.4	7.4	6.4	71	59	63	-	53
4.0	5.5	TV-RC3 025/13	23.7	-	13.4	22.9	23.9	5.4	7.4	6.4	72	61	65	-	61
4.0	5.5	TV-RC3 025/14	24.8	-	13.4	24.0	24.9	5.4	7.4	6.4	74	63	67	-	61
4.0	5.5	TV-RC3 025/15	25.8	-	13.4	25.0	26.0	5.4	7.4	6.4	76	65	69	-	61
4.0	5.5	TV-RC3 025/16	26.9	-	13.4	26.1	27.0	5.4	7.4	6.4	78	67	71	-	61
5.5	7.5	TV-RC3 025/18	29.0	-	15.2	28.2	29.2	8.0	10.1	7.8	85	73	77	-	91
5.5	7.5	TV-RC3 025/20	31.1	-	15.2	30.4	31.3	8.0	10.1	7.8	89	77	81	-	91
5.5	7.5	TV-RC3 025/22	33.3	-	15.2	32.5	33.4	8.0	10.1	7.8	93	81	85	-	91
7.5	10	TV-RC3 025/24	35.4	-	16.7	34.6	35.6	8.0	10.1	7.8	96	85	89	-	105

The third digit of this pump model denotes types of connection. Letter 'R' stands for Round Flange and it will be replaced with 'L' and 'P' for Oval Flange & PJE connection.

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DIMENSION DRAWINGS & DATA



PIPE SIZE : 1½" x 1½"

NOMINAL FLOW : 050gpm

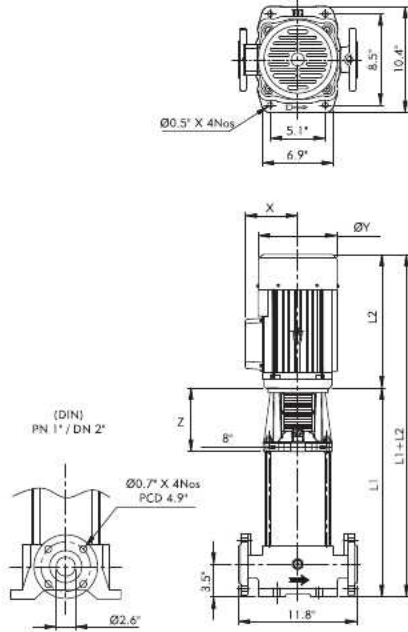
POWER		PUMP MODEL	APPROX. DIMENSIONS (Inch)								APPROX. WEIGHT (lbs)				
kW	HP		L1 MVC	L2		L3 MVS/N (PJE)	L4 MVS/N	X	Y (Ø)	Z	PUMP			MOTOR	
				1Ph	3Ph						MVC	MVS/N (PJE)	MVS / N	1Ph	3Ph
0.55	0.75	TV-RC3 050/01	12	9.4	9	12.1	12.1	4.3	5.4	6.7	71.5	60.5	62.7	24.2	22
1.1	1.5	TV-RC3 050/02	13.1	11	10.3	13.3	13.3	4.6	5.4	6.7	73.7	62.7	64.9	29.7	28.6
2.2	3.0	TV-RC3 050/03	14.8	12.2	12.1	15	15	5.1	6.9	7.2	75.9	64.9	67.1	44	38.5
2.2	3.0	TV-RC3 050/04	16	12.2	12.1	16.2	16.2	5.1	6.9	7.4	78.1	67.1	69.3	44	38.5
4.0	5.5	TV-RC3 050/05	17.3	-	13.6	17.5	17.5	5.2	7.7	7.4	80.5	69.3	71.5	-	60.5
4.0	5.5	TV-RC3 050/06	18.5	-	13.6	18.6	18.6	5.2	7.7	8.4	82.5	71.5	78.1	-	60.5
5.5	7.5	TV-RC3 050/07	20.7	-	13.6	20.8	20.8	7.9	10	8.4	88	78.1	80.5	-	107.8
5.5	7.5	TV-RC3 050/08	21.8	-	13.6	22	22	7.9	10	8.4	91.3	80.5	82.5	-	107.8
5.5	7.5	TV-RC3 050/09	23	-	13.6	23.2	23.2	7.9	10	8.4	93.5	82.5	84.7	-	107.8
5.5	7.5	TV-RC3 050/10	24.2	-	13.6	24.3	24.3	7.9	10	8.4	95.7	84.7	86.9	-	111.1
7.5	10	TV-RC3 050/12	26.5	-	16.5	26.7	26.7	7.9	10	8.4	97.9	86.9	128.7	-	235.4
11	15	TV-RC3 050/14	32.3	-	19.5	32.5	32.5	10.1	12.2	11.8	139.7	128.7	133.1	-	235.4
11	15	TV-RC3 050/16	34.7	-	19.5	34.8	34.8	10.1	12.2	11.8	144.1	133.1	135.3	-	235.4
11	15	TV-RC3 050/17	35.8	-	19.5	36	36	10.1	12.2	11.8	146.3	135.3	137.5	-	235.4

The third digit of this pump model denotes types of connection. Letter 'R' stands for Round Flange and it will be replaced with 'L' and 'P' for Oval Flange & PJE connection.

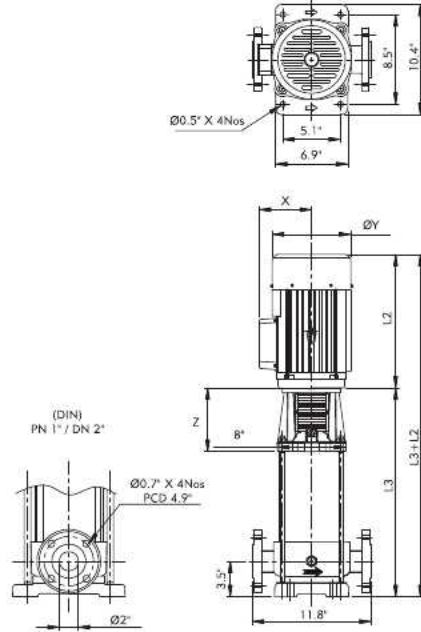
Note : The company reserves the right to modify the technical specification and illustrations without prior notice.

DIMENSION DRAWINGS & DATA

TV RC3 (ROUND FLANGE)



TV RST & N (ROUND FLANGE)



All Dimensions are in Inches

PIPE SIZE : 2" x 2"

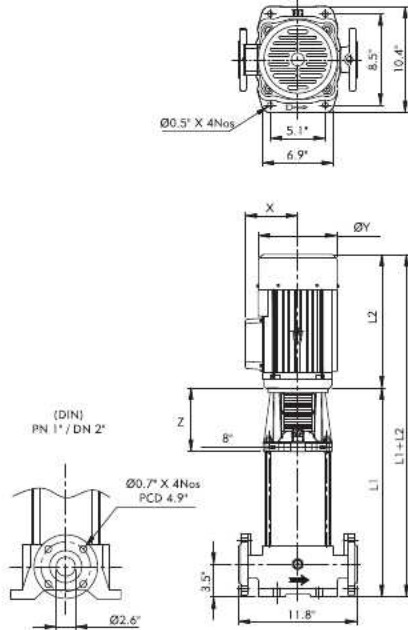
NOMINAL FLOW : 075gpm

POWER		PUMP MODEL	APPROX. DIMENSIONS (Inch)							APPROX. WEIGHT (lbs)			
kW	HP		L1 TVC	L2		L3 TVS/N (PJE)	X	Y (Ø)	Z	PUMP		MOTOR	
				1Ph	3Ph					TVC	TVS / N	1Ph	3Ph
1.5	2.0	TV-RC3 075/01	14.1	10.9	11.3	13.9	5.1	6.9	7.2	83.6	72.6	36.3	33
4	5.5	TV-RC3 075/02	15.8	-	13.6	15.6	6.3	7.2	7.2	85.8	74.8	-	60.5
5.5	7.5	TV-RC3 075/03	18.7	-	15	18.5	7.9	10	8.4	92.4	81.4	-	107.8
5.5	7.5	TV-RC3 075/04	20.5	-	15	20.3	7.9	10	8.4	94.6	83.6	-	107.8
7.5	10	TV-RC3 075/05	22.2	-	16.5	22	7.9	10	8.4	96.8	85.8	-	111.1
11	15	TV-RC3 075/06	27.4	-	19.5	27.3	10.1	12.2	11.8	138.6	127.6	-	235.4
11	15	TV-RC3 075/07	29.2	-	19.5	29	10.1	12.2	11.8	140.8	129.8	-	235.4
11	15	TV-RC3 075/08	31	-	19.5	30.8	10.1	12.2	11.8	143	132	-	235.4
15	20	TV-RC3 075/09	32.7	-	19.5	32.5	10.1	12.2	11.8	145.2	134	-	257.4
15	20	TV-RC3 075/10	34.5	-	19.5	34.3	10.1	12.2	11.8	147.4	136.4	-	257.4
18.5	25	TV-RC3 075/12	38	-	21.2	37.8	10.1	12.2	11.8	151.8	140.8	-	294.8

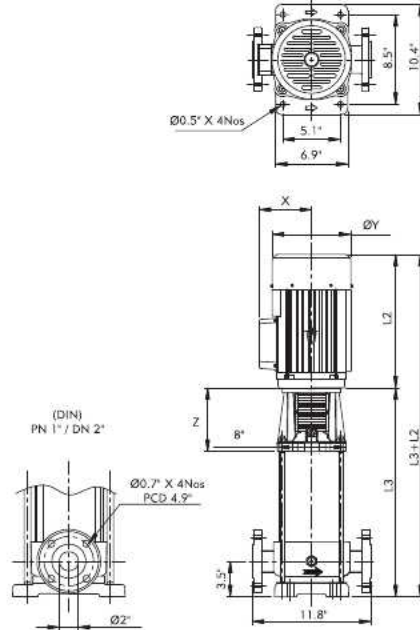
Note : The company reserves the right to modify the technical specification and illustrations without prior notice.

DIMENSION DRAWINGS & DATA

TV RC3 (ROUND FLANGE)



TV RST & N (ROUND FLANGE)



All Dimensions are in Inches

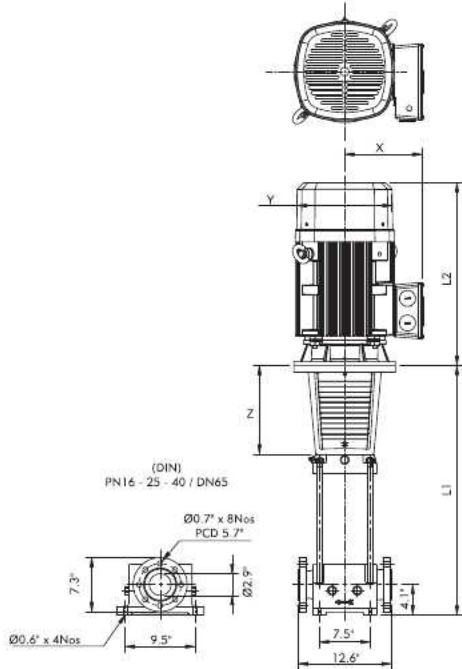
PIPE SIZE : **2" x 2"**

NOMINAL FLOW : **100gpm**

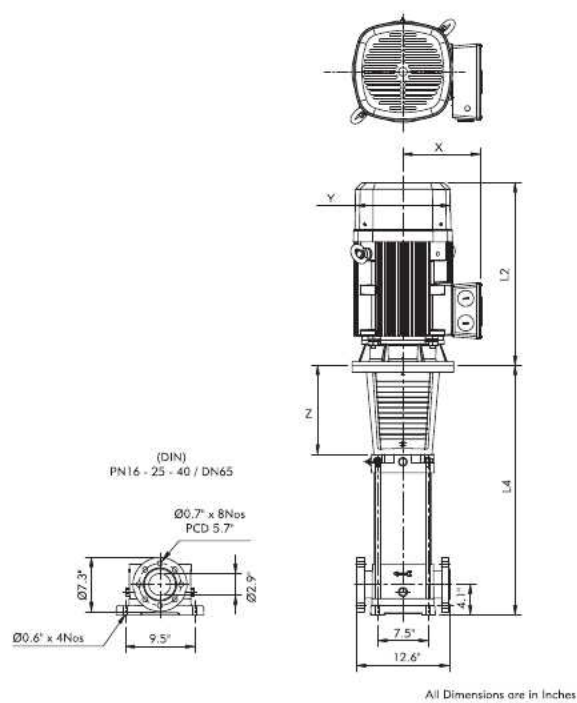
POWER		PUMP MODEL	APPROX. DIMENSIONS (Inch)							APPROX. WEIGHT (lbs)			
kW	HP		L1 MVC	L2		L3 MYS/N (PJE)	X	Y (Ø)	Z	PUMP		MOTOR	
				1Ph	3Ph					MVC	MVS / N	1Ph	3Ph
2.2	3.0	TV-RC3 100/01	14.1	12.2	12.1	13.9	5.1	6.9	7.2	83.6	72.6	44	38.5
4.0	5.5	TV-RC3 100/02	15.9	-	13.6	15.7	6.3	7.2	7.4	85.8	74.8	-	60.5
5.5	7.5	TV-RC3 100/03	18.7	-	15	18.5	7.9	10	8.4	92.4	81.4	-	107.8
7.5	10	TV-RC3 100/04	20.5	-	16.5	20.3	10.1	10	8.4	94.6	83.6	-	111.1
11	15	TV-RC3 100/05	25.7	-	19.5	25.5	10.1	12.2	11.8	136.4	125.4	-	235.4
11	15	TV-RC3 100/06	27.4	-	19.5	27.3	10.1	12.2	11.8	138.6	127.6	-	235.4
15	20	TV-RC3 100/07	29.2	-	19.5	29	10.1	12.2	11.8	140.8	129.8	-	257.4
15	20	TV-RC3 100/08	31	-	19.5	30.8	10.1	12.2	11.8	143	132	-	257.4
18.5	25	TV-RC3 100/10	34.5	-	21.2	34.3	10.1	12.2	11.8	147.4	136.4	-	294.8

DIMENSION DRAWINGS & DATA

TV RC3 (ROUND FLANGE)



TV RST & N (ROUND FLANGE)



PIPE SIZE : 2½" x 2½"

NOMINAL FLOW : 160gpm

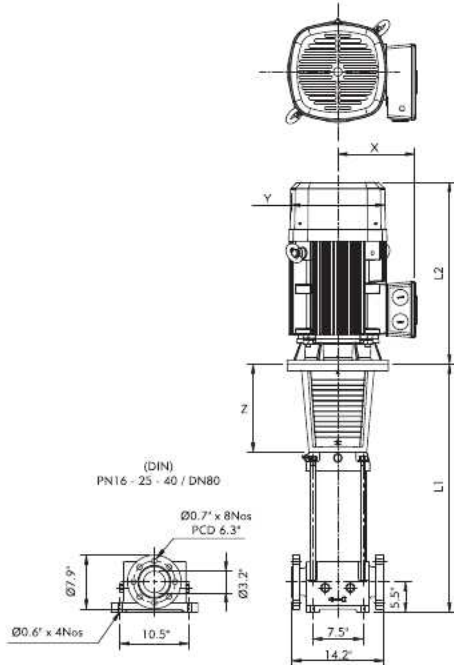
POWER		PUMP MODEL	APPROX. DIMENSIONS (Inch)						APPROX. WEIGHT (lbs)			
kW	HP		L1 & L4 TVC S / N	L2		X	Y (Ø)	Z	PUMP		MOTOR	
				1Ph	3Ph				TVC	TVS / N	1Ph	3Ph
2.2	3	TV-RC3 160/01A	20.1	11.6	11.6	5.4	7.4	7.9	129	140	53	44
4	5.5	TV-RC3 160/01	20.1	-	13.9	5.4	7.4	7.9	129	140	-	61
5	7.5	TV-RC3 160/02AA	22.8	-	15.2	8.0	10.1	7.9	135	146	-	91
5	7.5	TV-RC3 160/02A	22.8	-	15.2	8.0	10.1	7.9	135	146	-	91
5	7.5	TV-RC3 160/02	22.8	-	15.2	8.0	10.1	7.9	135	146	-	91
7.5	10	TV-RC3 160/03AA	25.6	-	16.7	8.0	10.1	7.9	140	151	-	105
11	15	TV-RC3 160/03	25.6	-	19.5	8.8	12.3	12.0	168	179	-	268
11	15	TV-RC3 160/04A	28.3	-	19.5	8.8	12.3	12.0	175	186	-	268
11	15	TV-RC3 160/04	28.3	-	19.5	8.8	12.3	12.0	175	186	-	268
15	20	TV-RC3 160/05AA	35.2	-	19.5	8.8	12.3	12.0	182	193	-	288
15	20	TV-RC3 160/05	35.2	-	19.5	8.8	12.3	12.0	182	193	-	288
18.5	25	TV-RC3 160/06AA	38.0	-	19.5	8.8	12.3	12.0	188	199	-	332
18.5	25	TV-RC3 160/06	38.0	-	19.5	8.8	12.3	12.0	188	199	-	332
18.5	25	TV-RC3 160/07AA	40.7	-	19.5	8.8	12.3	12.0	195	206	-	332
22	30	TV-RC3 160/07	40.7	-	24.8	10.7	13.4	12.0	195	206	-	396
22	30	TV-RC3 160/08AA	43.5	-	24.8	10.7	13.4	12.0	201	206	-	396
22	30	TV-RC3 160/08	43.5	-	24.8	10.7	13.4	12.0	201	212	-	396
30	40	TV-RC3 160/09AA	46.3	-	24.8	10.7	13.4	12.0	208	219	-	532
30	40	TV-RC3 160/09	46.3	-	24.8	10.7	13.4	12.0	208	219	-	532
30	40	TV-RC3 160/10AA	49.0	-	24.8	10.7	13.4	12.0	215	226	-	532
30	40	TV-RC3 160/10	49.0	-	24.8	10.7	13.4	12.0	215	226	-	532
30	40	TV-RC3 160/11AA	51.9	-	24.8	10.7	13.4	12.0	221	232	-	532

The third digit of this pump model denotes types of connection. Letter 'R' stands for Round Flange and it will be replaced with 'L' and 'P' for Oval Flange & PJE connection.

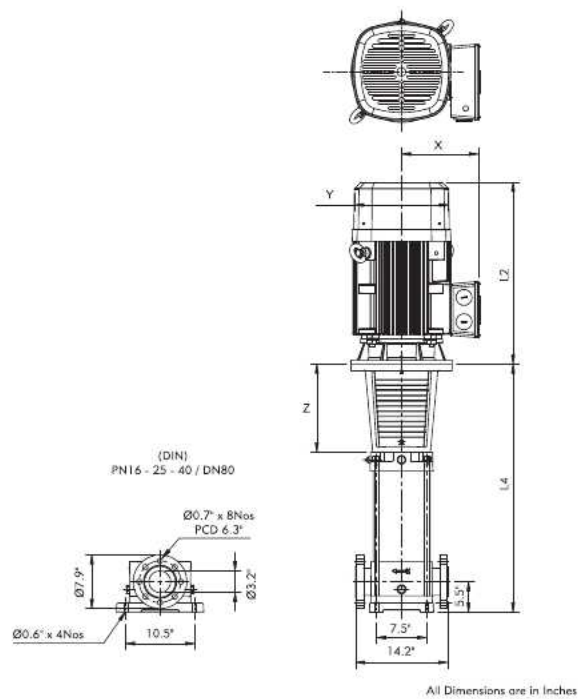
Note : The company reserves the right to modify the technical specification and illustrations without prior notice.

DIMENSION DRAWINGS & DATA

TV RC3 (ROUND FLANGE)



TV RST & N (ROUND FLANGE)



All Dimensions are in Inches

PIPE SIZE : 3 1/4" x 3 1/4"

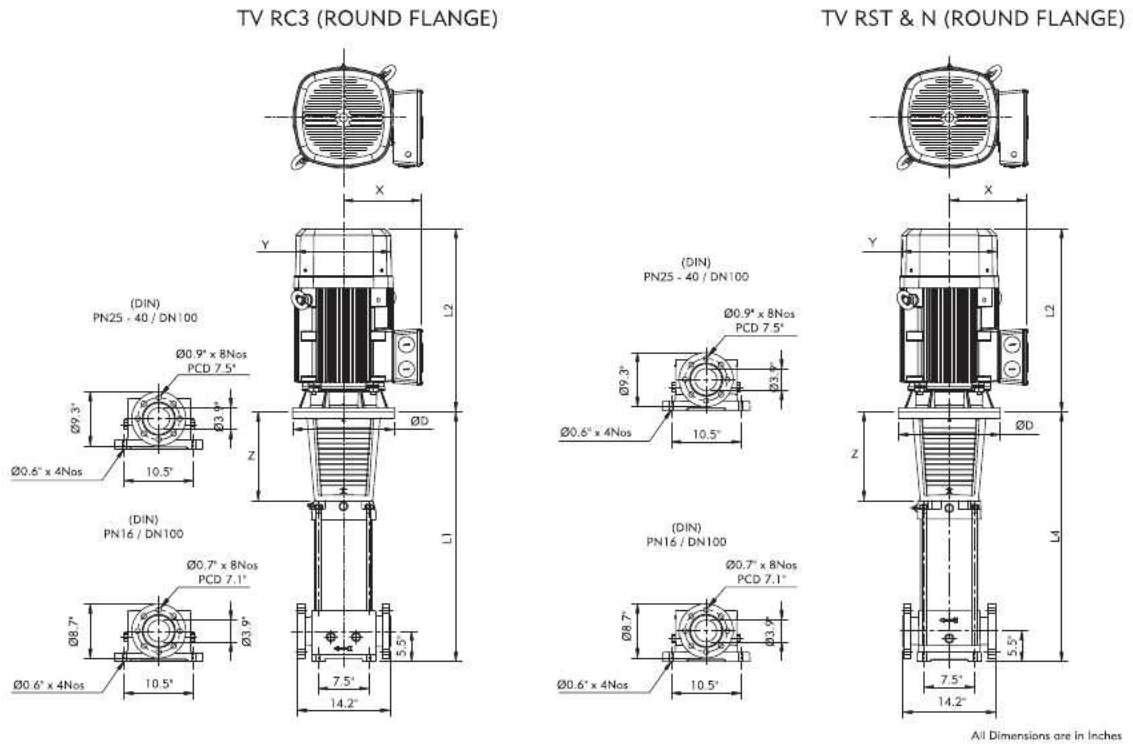
NOMINAL FLOW : 220gpm

POWER		PUMP MODEL	APPROX. DIMENSIONS (Inch)					APPROX. WEIGHT (lbs)		
kW	HP		L1 & L4 MVC S / N	L2	X	Y (Ø)	Z	PUMP		MOTOR
				3Ph				MVC	MVS / N	3Ph
5.5	7.5	TV-RC3 220/01A	22.2	15.2	8.0	10.1	7.9	67	64	41.3
5.5	7.5	TV-RC3 220/01	22.2	15.2	8.0	10.1	7.9	67	64	41.3
11	15	TV-RC3 220/02B	25.4	19.5	8.8	12.3	12.0	84	81	122
11	15	TV-RC3 220/02A	25.4	19.5	8.8	12.3	12.0	84	81	122
11	15	TV-RC3 220/02	25.4	19.5	8.8	12.3	12.0	84	81	122
15	20	TV-RC3 220/03B	32.6	19.5	8.8	12.3	12.0	89	86	131
18.5	25	TV-RC3 220/03A	32.6	19.5	8.8	12.3	12.0	89	86	151
18.5	25	TV-RC3 220/03	32.6	19.5	8.8	12.3	12.0	89	86	151
22	30	TV-RC3 220/04B	35.7	24.8	10.7	13.4	12.0	93	90	180
22	30	TV-RC3 220/04A	35.7	24.8	10.7	13.4	12.0	93	90	180
22	30	TV-RC3 220/04	35.7	24.8	10.7	13.4	12.0	93	90	180
30	40	TV-RC3 220/05B	38.9	24.8	10.7	13.4	12.0	97	94	242
30	40	TV-RC3 220/05A	38.9	24.8	10.7	13.4	12.0	97	94	242
30	40	TV-RC3 220/05	38.9	24.8	10.7	13.4	12.0	97	94	242
37	50	TV-RC3 220/06B	42.0	25.6	10.9	15.6	12.0	104	101	258
37	50	TV-RC3 220/06	42.0	25.6	10.9	15.6	12.0	104	101	258
37	50	TV-RC3 220/07B	45.2	25.6	10.9	15.6	12.0	109	106	258
45	60	TV-RC3 220/07	45.2	27.4	11.7	17.1	12.0	109	106	320
45	60	TV-RC3 220/08A	48.3	27.4	11.7	17.1	12.0	113	110	320

The third digit of this pump model denotes types of connection, Letter 'R' stands for Round Flange and it will be replaced with 'L' and 'P' for Oval Flange & PJE connection.

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DIMENSION DRAWINGS & DATA



PIPE SIZE : **4" x 4"**

NOMINAL FLOW : **330gpm**

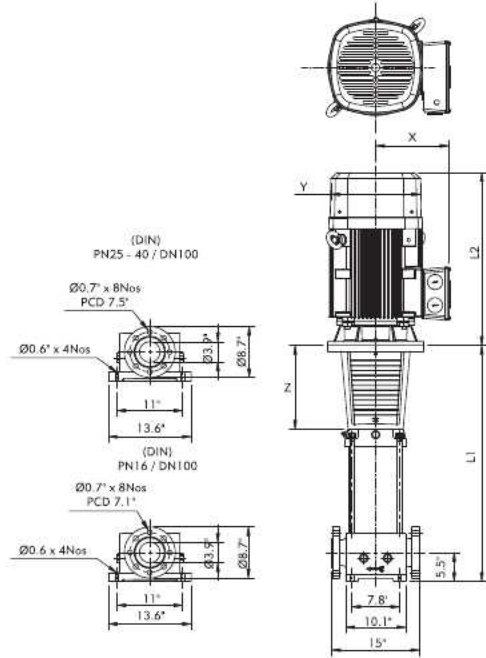
POWER		PUMP MODEL	APPROX. DIMENSIONS (Inch)					APPROX. WEIGHT (lbs)		
kW	HP		L1 & L4 TVC S / N	L2	X	Y (Ø)	Z	PUMP		MOTOR
				3Ph				TVC	TVS / N	3Ph
7.5	10	TV-RC3 330/01A	22.2	16.7	8.0	10.1	7.9	215	177	91
11	15	TV-RC3 330/01	22.2	19.5	8.8	12.3	12.0	215	208	268
15	20	TV-RC3 330/02AA	25.4	19.5	8.8	12.3	12.0	221	215	288
18.5	25	TV-RC3 330/02A	25.4	19.5	8.8	12.3	12.0	221	215	332
22	30	TV-RC3 330/02	25.4	24.8	10.7	13.4	12.0	221	215	396
22	30	TV-RC3 330/03AA	32.6	24.8	10.7	13.4	12.0	230	223	396
30	40	TV-RC3 330/03A	32.6	24.8	10.7	13.4	12.0	230	223	532
30	40	TV-RC3 330/03	32.6	24.8	10.7	13.4	12.0	230	223	532
37	50	TV-RC3 330/04AA	35.7	24.8	10.7	13.4	12.0	245	239	568
37	50	TV-RC3 330/04A	35.7	25.6	10.9	15.6	12.0	245	239	568
45	60	TV-RC3 330/04	35.7	25.6	10.9	15.6	12.0	245	239	704
45	60	TV-RC3 330/05AA	38.9	27.4	10.9	17.1	12.0	254	248	704

The third digit of this pump model denotes types of connection, Letter 'R' stands for Round Flange and it will be replaced with 'L' and 'P' for Oval Flange & PJE connection.

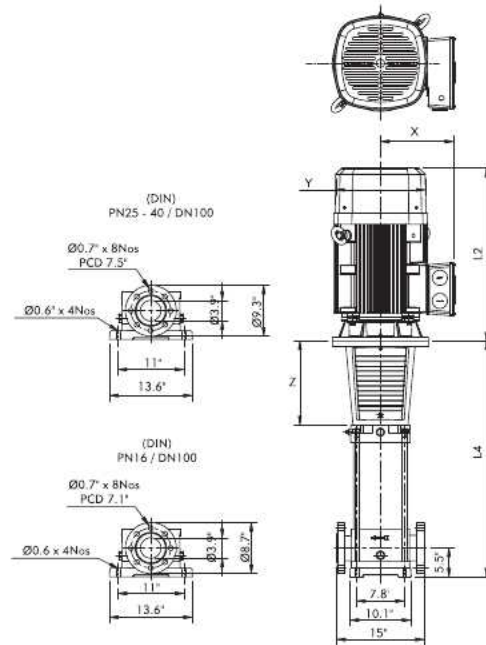
Note : The company reserves the right to modify the technical specification and illustrations without prior notice.

DIMENSION DRAWINGS & DATA

TV RC3 (ROUND FLANGE)



TV RST & N (ROUND FLANGE)



All Dimensions are in Inches

PIPE SIZE : 4" x 4"

NOMINAL FLOW : 450gpm

POWER		PUMP MODEL	APPROX. DIMENSIONS (Inch)					APPROX. WEIGHT (lbs)		
kW	HP		L1 & L4 TVC S / N	L2	X	Y (Ø)	Z	PUMP		MOTOR
				3Ph				TVC	TVS / N	3Ph
11	15	TV-RC3 450/01A	22.5	19.5	8.8	12.3	12.0	94	92	122
15	20	TV-RC3 450/01	22.5	19.5	8.8	12.3	12.0	94	92	131
18.5	25	TV-RC3 450/02AA	30.2	19.5	8.8	12.3	12.0	102	100	151
22	30	TV-RC3 450/02A	30.2	24.8	10.7	13.4	12.0	102	100	180
30	40	TV-RC3 450/02	30.2	24.8	10.7	13.4	12.0	102	100	242
30	40	TV-RC3 450/03AA	33.9	24.8	10.7	13.4	12.0	113	111	242
37	50	TV-RC3 450/03A	33.9	25.6	10.9	15.6	12.0	113	111	258
37	50	TV-RC3 450/03	33.9	25.6	10.9	15.6	12.0	113	111	258
45	60	TV-RC3 450/04AA	37.5	27.4	11.7	17.1	12.0	121	119	320
45	60	TV-RC3 450/04A	37.5	27.4	11.7	17.1	12.0	121	119	320

The third digit of this pump model denotes types of connection. Letter 'R' stands for Round Flange and it will be replaced with 'L' and 'P' for Oval Flange & PJE connection.
 Note : The company reserves the right to modify the technical specification and illustrations without prior notice.

Conversion Table

FLOW RATE

litre per second l/s	litre per minute l/min	cubic meter per hour m ³ /h	cubic foot per hour ft ³ /h	cubic foot per minute ft ³ /min	Imp.gallon per minute Imp.gal./min	US gallon per minute US gal./min	Us barrel per day ls barrel/d (Petroleum)
1	60	3.6	127.133	2.1189	13.2	15.85	543.439
0.017	1	0.06	2.1189	0.0353	0.22	0.264	9.057
0.278	16.667	1	35.3147	0.5886	3.666	4.403	150.955
0.008	0.472	0.0283	1	0.0167	0.104	0.125	4.275
0.472	28.317	1.6990	60	1	6.229	7.480	256.475
0.076	4.546	0.2728	9.6326	0.1605	1	1.201	41.175
0.063	3.785	0.2271	8.0209	0.1337	0.833	1	34.286
0.002	0.110	0.0066	0.2339	0.0039	0.024	0.029	1

LIQUID

Cubic meter m ³	litre l	Millilitre ml	Imp. gallon Imp. Gal	US gallon US gal	cubic foot ft ³
1	1000	1 x 10 ⁶	220	264.2	35.3147
0.001	1	1000	0.22	0.2642	0.0353
1 x 10 ⁻⁵	0.001	1	2.2 X 10 ⁻⁴	2.642 x 10 ⁻⁴	3.53 x 10 ⁻⁵
0.00455	4.546	4546	1	1.201	0.1605
0.00378	3.785	3785	0.8327	1	0.1337
0.0283	28.317	28317	6.2288	7.4805	1

LIQUID HEAD AND PRESSURE

newton per square meter N/m ² (Pa)	kilo pascal kPa	bar	kilogram force per square centimeter Kgf/cm ²	pound force per square inch psi	foot for water ft H ₂ O	meter of water m H ₂ O	millimeter of mercury mm Hg	inch of mercury in Hg
1	0.001	1 x 10 ⁻⁵	1.02 x 10 ⁻⁵	1.45 x 10 ⁻⁴	3.35 x 10 ⁻⁴	1.02 x 10 ⁻⁴	0.0075	2.95 x 10 ⁻⁴
1000	1	0.01	0.0102	0.145	0.335	0.102	7.5	0.295
1 x 10 ⁵	100	1	1.02	14.5	33.52	10.2	750.1	29.53
98,067	98.07	0.981	1	14.22	32.81	10	735.6	28.96
6895	6.895	0.069	0.0703	1	2.31	0.703	51.72	2.036
2984	2.984	0.03	0.0305	0.433	1	0.305	22.42	0.882
9789	9.789	0.098	0.1	1.42	3.28	1	73.42	2.891
133.3	0.133	0.0013	0.0014	0.019	0.045	0.014	1	0.039
3386	3.386	0.0338	0.0345	0.491	1.133	0.0345	25.4	1

LENGTH

millimeter mm	centimeter cm	meter m	inch in	foot ft	yard yd
1	0.1	0.001	0.0394	0.0033	0.0011
10	1	0.01	0.3937	0.0328	0.0109
1000	100	1	39.3701	3.2808	1.0936
25.4	2.54	0.0254	1	0.0833	0.0278
304.8	30.48	0.3048	12	1	0.3333
914.4	91.44	0.9144	36	3	1

1 Kilometer = 1000 metres = 0.62137 miles 1 mile = 1609.37 metres = 1.60934 kilometers

MASS

kilogram kg	pound lb	hundred weight (cwt)	tonne t	ton long tn	short ton sh tn
1	2.205	0.0197	0.001	9.84 x 10 ⁻⁴	0.0011
0.454	1	0.0089	4.54 x 10 ⁻⁴	4.46 x 10 ⁻⁴	5.0 x 10 ⁻⁴
50.802	112	1	0.0508	0.05	0.056
1000	2204.6	19.684	1	0.9842	1.1023
1016	2240	20	1.0161	1	1.102
907.2	2000	17.857	0.9072	0.8929	1

TEMPERATURE

To Convert From	To	Use Formula
Temperature Celsius, tc	Temperature Kelvin, tk	K = tc + 273.15
Temperature Fahrenheit, tf	Temperature Kelvin, tk	K = (tf + 459.67 / 1.8)
Temperature Celsius, tc	Temperature Fahrenheit, tf	F = 1.8 tc + 32
Temperature Fahrenheit, tf	Temperature Celsius, tc	C = (tf - 32) / 1.8
Temperature Kelvin, tk	Temperature Celsius, tc	C = tk - 273.15
Temperature Kelvin, tk	Temperature Fahrenheit, tf	F = 1.8tk - 459.67



T H E P O W E R B E H I N D T H E F O R C E

Naargo Industries Private Limited, one of the leading manufacturers of latest state of art, large range of pumps and motors, is managed by veterans who are in the pump industry for almost half a century. The products are employed in various applications like irrigation, domestic, civil construction, de-watering etc; The Company has a strong distribution network in India for sales & service and a strong global presence.

Quality is the key factor in Naargo's products. The expansive infrastructure and environment accredited with ISO 9001 quality certification, latest engineering softwares, high-tech machinery, futuristic pumping technology and high caliber workforce facilitate the production of flawless and efficient products on par with international standards under the brand name of "Tormac". The well equipped R & D wing stays alive to the changing global trends and comes out with viable solutions for innovative product development and upgradation.

The Products currently available include Stainless Steel Submersible Pumps, 4" Thermoplastic Submersible Pumps, 6" & 8" Cast Iron Submersible Pumps, Submersible Motors and Controls, Centrifugal Pumps, Inline Booster Pumps, Jet Self-priming Pumps and Peripheral Pumps.

The power, performance and endurance of the products backed by the uncompromising teamwork and value systems will certainly propel the company's growth towards new horizons in the pump industry.

IC-BF-A/16-E4

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Tormac
P U M P S

* Tormak has pointed as Tormac.