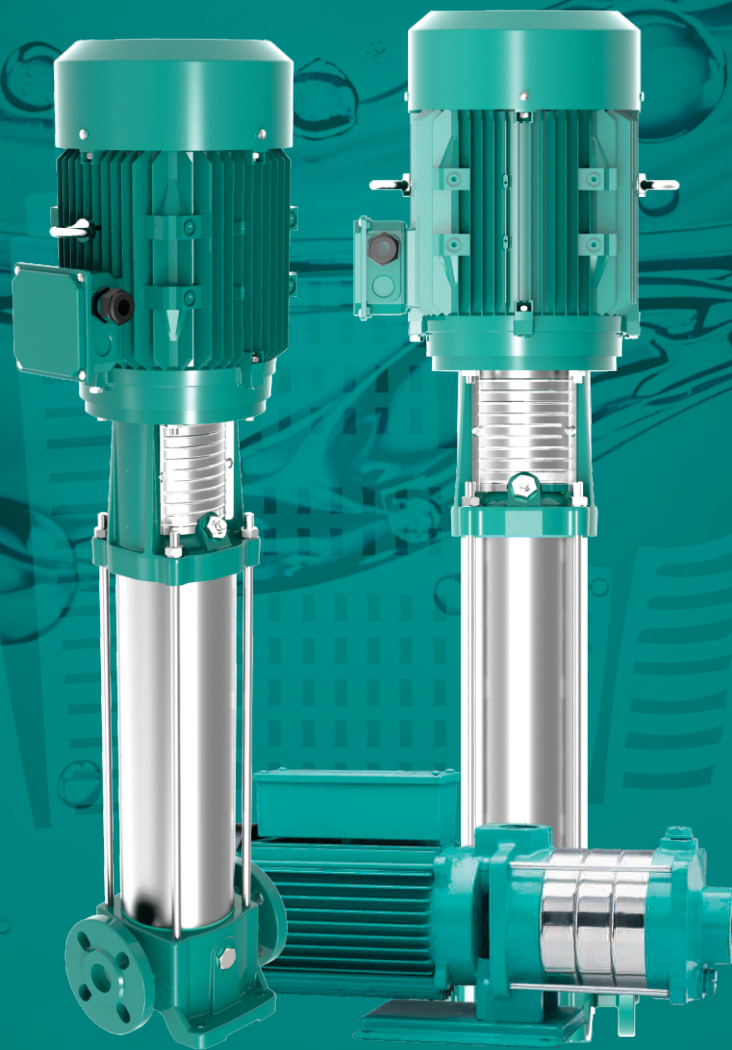




Enhance your Water Supply System with the Power of our
MULTISTAGE PUMPS



Products from an ISO 9001 COMPANY



MULTISTAGE CENTRIFUGAL PUMPS - 60 Hz

I N D E X

TH SERIES (HORIZONTAL MULTISTAGE CENTRIFUGAL PUMPS)

Introduction, Applications, Features & Performance Curve Conditions _____	5
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Constructional Data _____	8
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TV SERIES (VERTICAL MULTISTAGE CENTRIFUGAL PUMPS)

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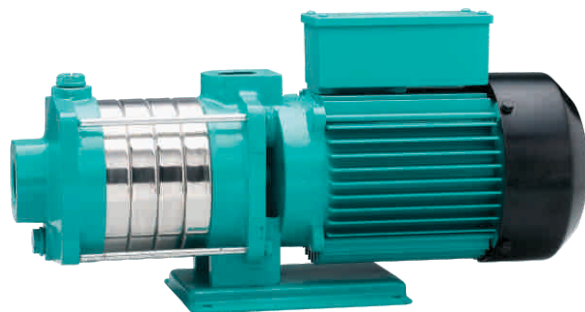
**HORIZONTAL
MULTISTAGE CENTRIFUGAL PUMPS
60 Hz**

TH SERIES

TH series pumps are single or multistage end suction and top discharge type supplied with radial flow impeller for higher head and flow requirement. These pumps are of centrifugal monoblock type equipped with totally enclosed single phase or three phase standard or premium efficiency motors for continuous duty. In addition to the standard design, the pumps are available in fully stainless steel construction for hygiene applications. All single phase pumps are thermally protected.

Applications

- Utility water supply in residences and commercial buildings
- Pressure Boosting system
- RO System
- High pressure application in industries
- Jockey application in firefighting system
- Industrial washing and cleaning system
- Landscaping and gardening



Design Features

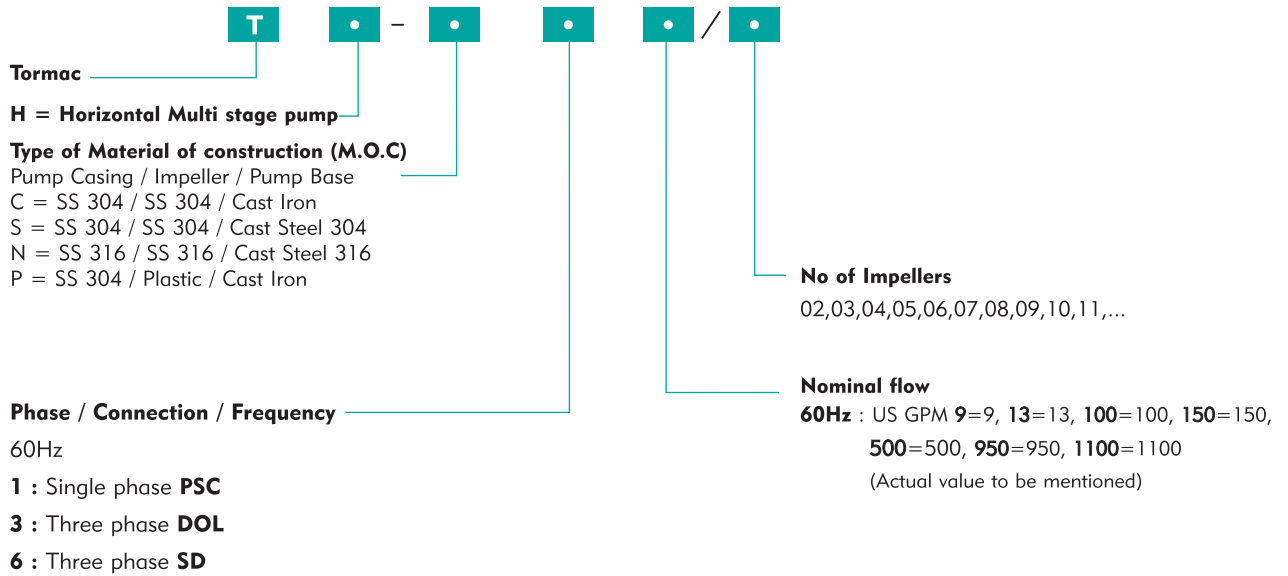
- High efficiency
- Wide hydraulic ranges
- Stainless steel wetted parts
- Thermal protection in single phase motor
- Optional premium efficiency motors in three phase design

Performance Curve Conditions

a	Curve tolerance are according to ISO 9906, Grade 2B.
b	The performance are taken at rated voltage & speed that are only indicative.
c	Actual discharge depends on availability of water in well / tank, height of water column from the suction pipe.
d	Pipe fiction losses have not been included in the performance curves & performance tables.

e	The measurements were made with airless water at 20°C. When pumping liquids with a density higher than of water, motor with correspondingly higher output must be used.
f	The performance are taken at rated voltage & speed that are only indicative.
h	The bold curves indicate the recommended performance range.

Model Classification



Operating Data - Pump

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.)

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"

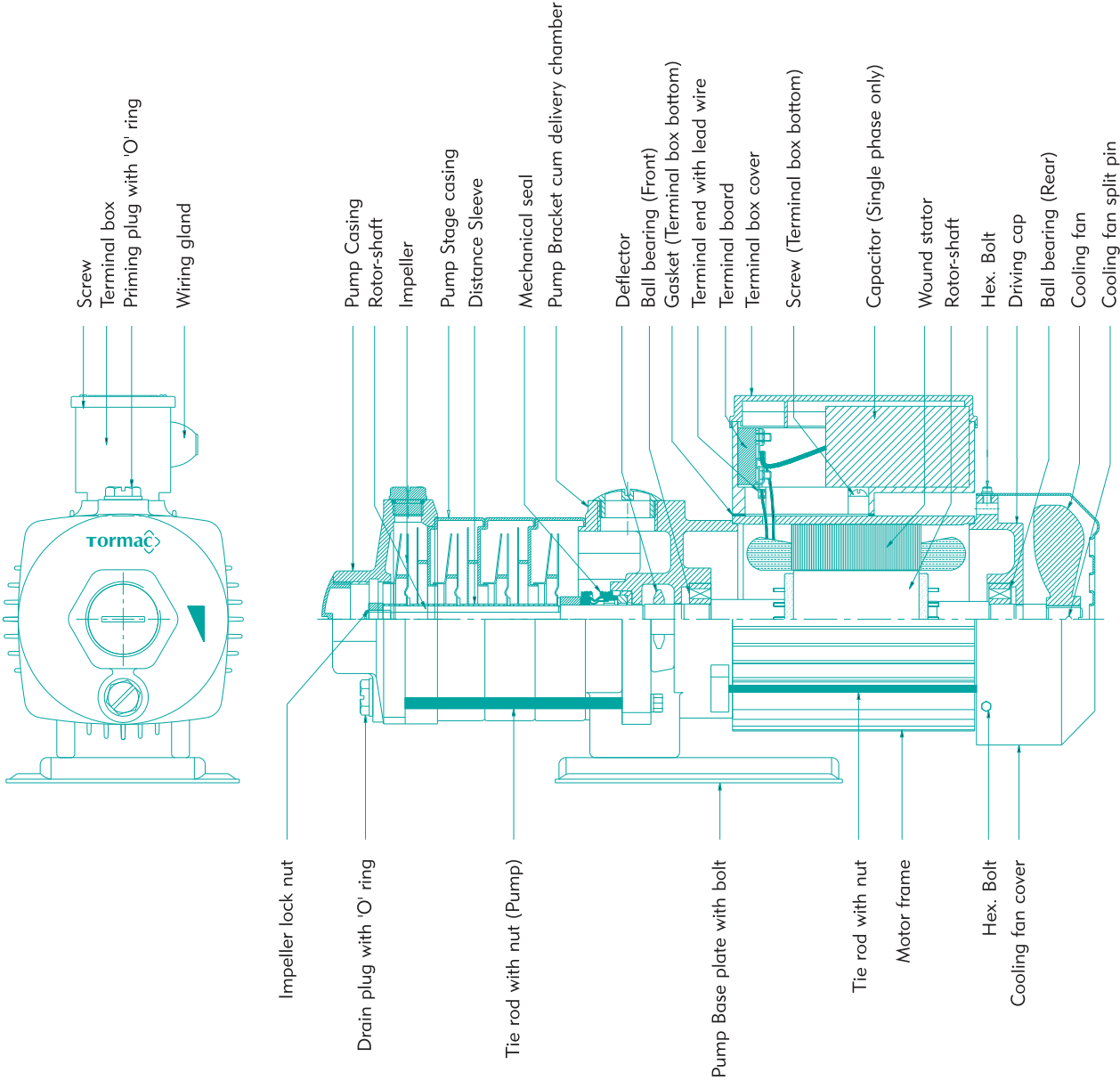
Technical Data - Motors

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

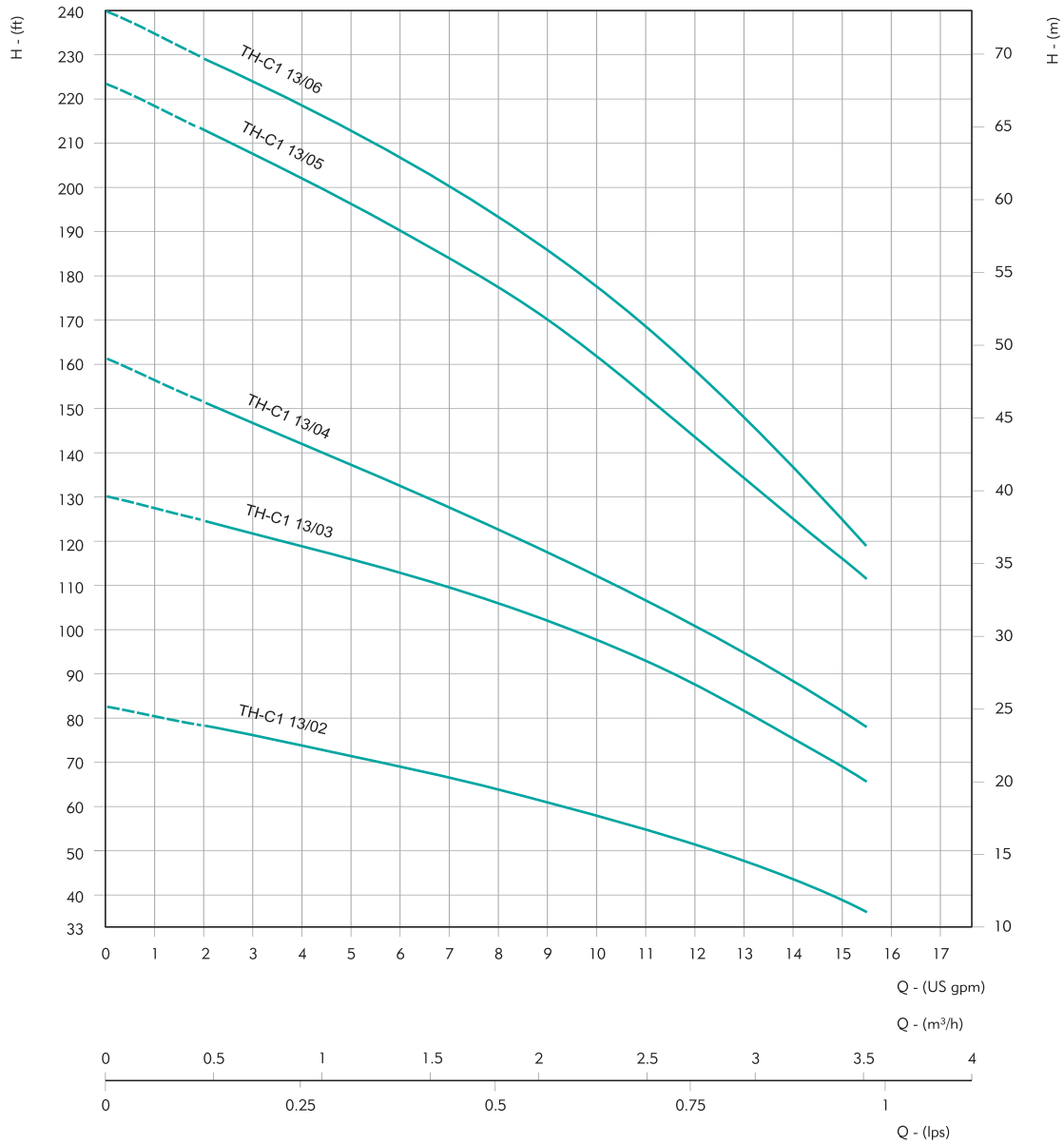
Part Name	THC	THS	THN
Impeller	SS304	SS304	SS316
Diffuser	SS304	SS304	SS316
Bracket	Cast Iron	SS304	SS316
Motor Frame	Aluminium	Aluminium	Aluminium
Shaft	SS431	SS431	SS329
Shaft Seal & Face Combination	Mechanical seal - (Silicon Carbide Vs Carbon / EPDM)	Mechanical seal - (Silicon Carbide Vs Carbon / EPDM)	Mechanical seal - (Silicon Carbide Vs Carbon / EPDM)
Base Plate	Mild Steel	Mild Steel	Mild Steel

CONSTRUCTIONAL DATA



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

PERFORMANCE CURVES & DATA



Pipe Size : **1" x 1" (NPT)**

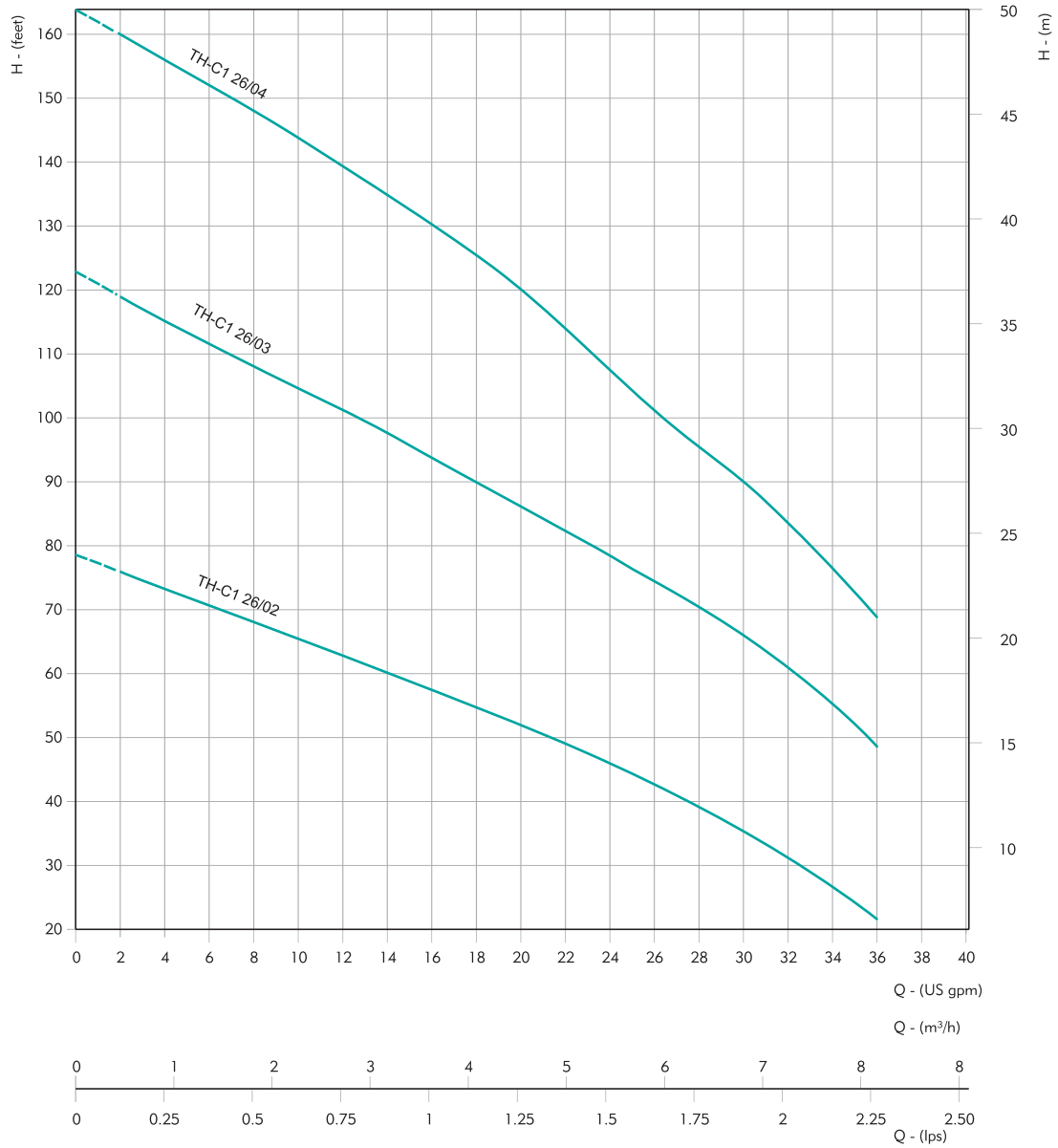
Nominal Flow : **13gpm**

3450 rpm

Power		Model*	gpm m³/h	0	4	7	10	13	15.5
kW	HP			0	0.9	1.6	2.3	3	3.5
0.3	0.4	TH-C1 13/02	Total Manometric Head in Meter	25	23	20	17	14	11
0.37	0.5	TH-C1 13/03		40	36	33	30	25	20
0.55	0.75	TH-C1 13/04		49	43	39	34	29	24
0.75	1	TH-C1 13/05		68	62	56	49	41	34
0.9	1.2	TH-C1 13/06		73	66	61	54	45	36

* The 4th digit of the model identification "1" denotes single phase motors & which will be replaced with "3" in case of 3 phase motors.

PERFORMANCE CURVES & DATA



Pipe Size : **1" x 1" (NPT)**

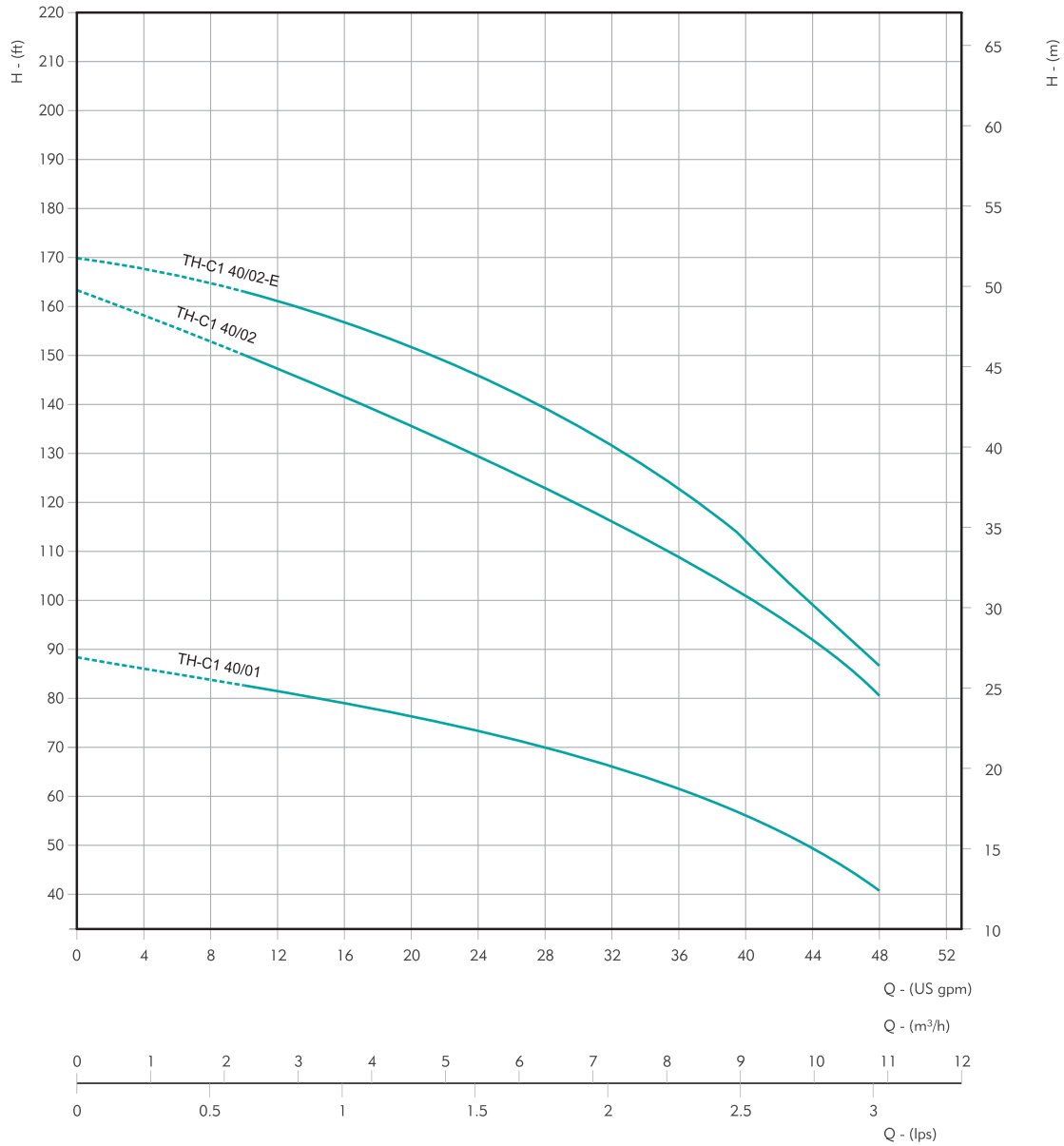
Nominal Flow : **26gpm**

3450 rpm

Power		Model*	gpm m³/h	0	8	14	20	26	32	36
kW	HP			0	1.8	3.2	4.5	5.9	7.3	8.2
0.55	0.75	TH-C1 26/02	Total Manometric Head in Meter	24	21	18	16	13	9	6
0.75	1	TH-C1 26/03		37	33	30	26	23	19	15
1.1	1.5	TH-C1 26/04		50	45	41	37	31	26	21

* The 4th digit of the model identification "1" denotes single phase motors & which will be replaced with "3" in case of 3 phase motors.

PERFORMANCE CURVES & DATA



Pipe Size : 1½" x 1¼" (NPT)

Nominal Flow : 40gpm

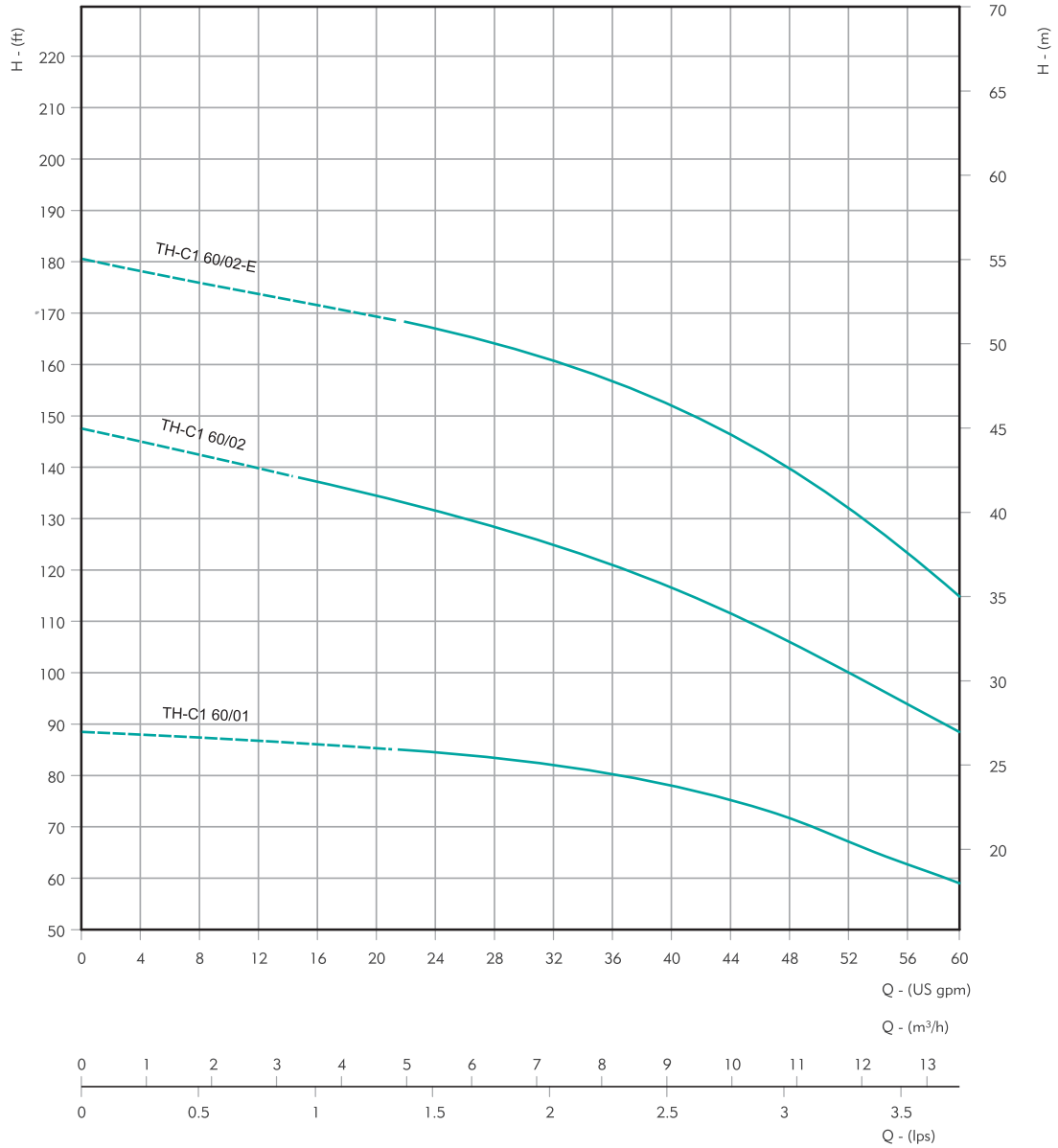
3450 rpm

Power		Model*	gpm m³/h	0	16	28	36	44	48
kW	HP			0	3.5	6.2	8	9.7	10.6
0.75	1	TH-C1 40/01	Total Manometric Head in Meter	27	24	21	18	15	12
1.1	1.5	TH-C1 40/02		50	43	38	33	28	25
1.5	2	TH-C1 40/02-E		52	47	42	37	30	27

* E - Denotes elevated head model.

* The 4th digit of the model identification "1" denotes single phase motors & which will be replaced with "3" in case of 3 phase motors.

PERFORMANCE CURVES & DATA



Pipe Size : **1½" x 1½" (NPT)**

Nominal Flow : **60gpm**

3450 rpm

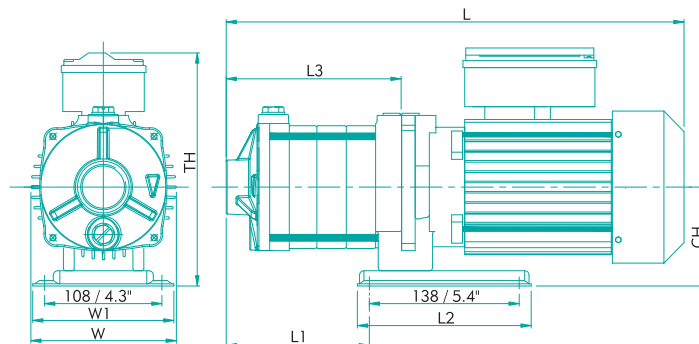
Power		Model*	gpm m³/h	0	20	28	40	48	60
kW	HP			0	4.4	6.2	8.8	10.6	13.3
1.1	1.5	TH-C1 60/01	Total Monometric Head in Meter	28	27	26	24	22	18
2.2	3	TH-C1 60/02		45	41	39	36	32	27
3	4	TH-C3 60/02-E		55	52	50	45	43	35

* E - Denotes elevated head model.

* The 4th digit of the model identification "1" denotes single phase motors & which will be replaced with "3" in case of 3 phase motors.

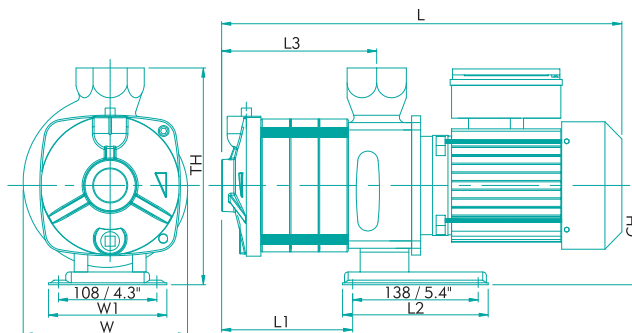
* Mention pipe size while placing order.

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	mm	Inch	mm	Inch	kg	lb
TH-C1 13/02	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-C1 13/03	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-C1 13/04	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-C1 13/05	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-C1 13/06	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	mm	Inch	mm	Inch	kg	lb
TH-C1 26/02	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-C1 26/03	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-C1 26/04	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	mm	Inch	mm	Inch	kg	lb
TH-C1 40/01	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-C1 40/02	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-C1 40/02-E	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

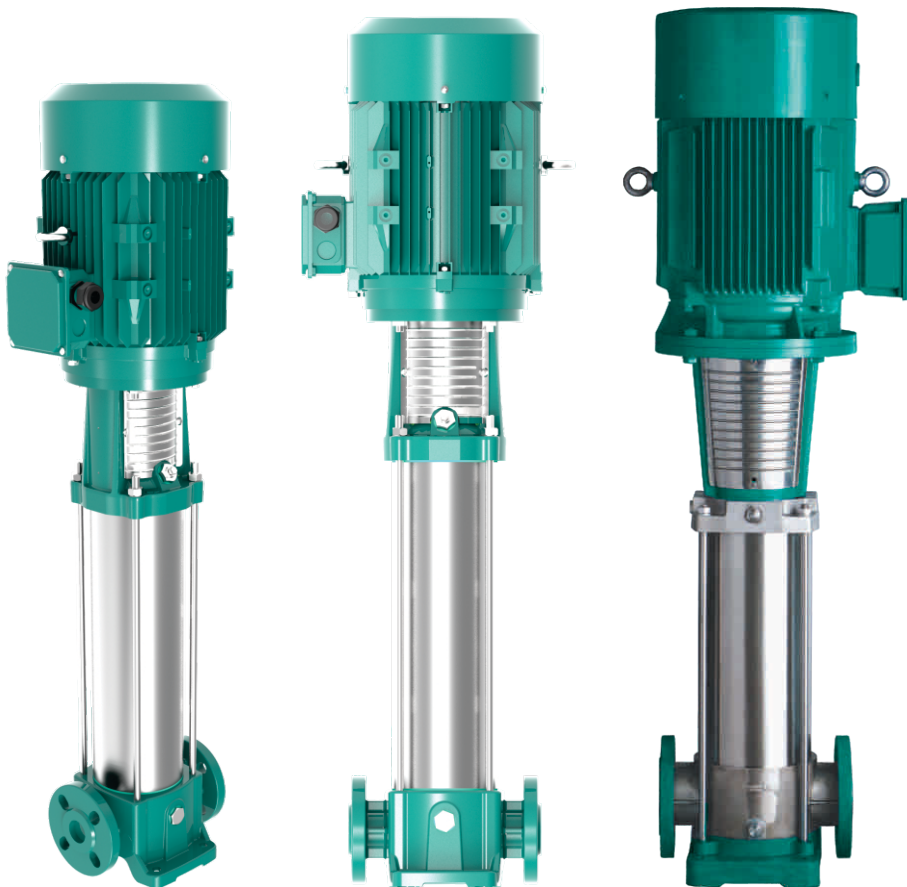
Model	L				L1		L2		L3		W		W1		TH		CH		Approx. Weight	
	1Ph		3Ph																	
	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	kg	lb
TH-C1 60/01	379	14.9	394	15.5	52	2.0	160	6.3	72	2.8	181	7.1	130	5.1	238	9.4	109	4.3	19	42
TH-C1 60/02	424	16.7	424	16.7	82	3.2	160	6.3	102.5	4.0	181	7.1	130	5.1	238	9.4	109	4.3	21.5	47
TH-C3 60/02-E	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.

VERTICAL
MULTISTAGE CENTRIFUGAL PUMPS
60 Hz

TV SERIES

Multistage vertical inline pumps are single or multistage type supplied with radial or mixed flow impeller for higher head and flow requirement. These pumps are available in different materials of construction and all wetted parts are made of corrosion resistant stainless-steel material. A preassembled cartridge mechanical seal is used for easy maintenance without disassembling the pump. The inline design simplifies pipework and offers great savings in floor space compared to horizontal pumps. These pumps are ideally suitable for high pressure and constant pressure applications. Inline pumps are offered as pump end or pumpset with single phase motors upto 2.2kW and three phase premium efficiency motors for entire range of pumps.



Applications

- Utility water supply in industries and buildings
- Pressure Boosting system
- RO System
- High pressure application in industries
- Boiler feed application
- Jockey application in firefighting system
- Industrial washing and cleaning system
- Hot water transfer and circulation
- Agriculture

Design Features

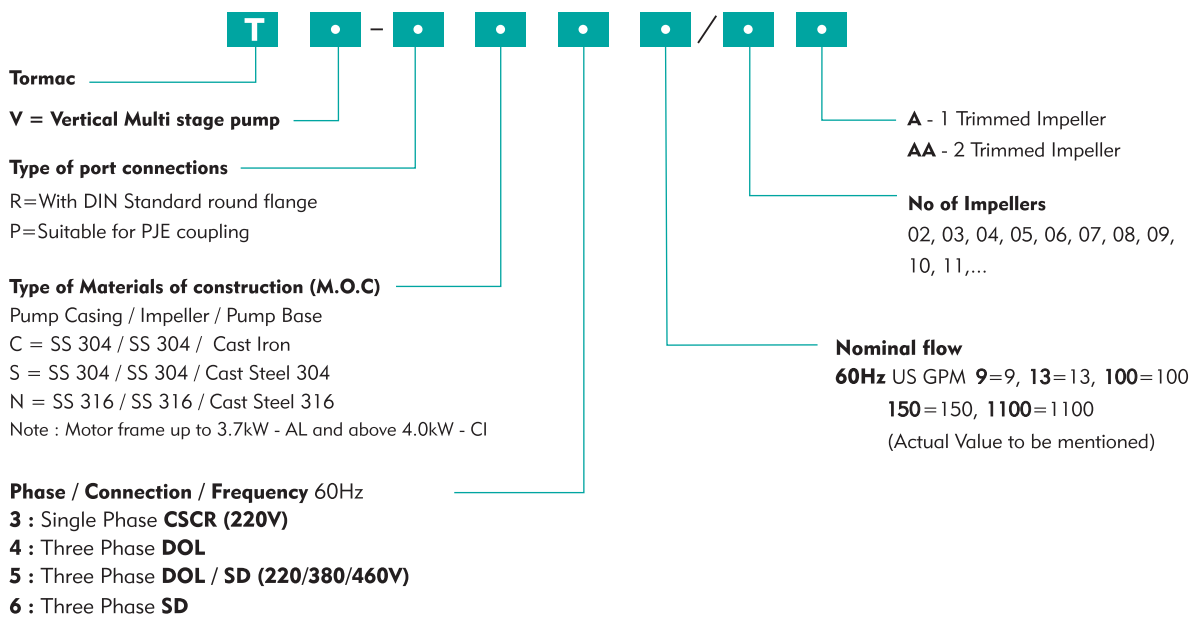
- High efficiency
- Wide hydraulic ranges
- Stainless steel wetted parts
- Space saving compact design
- Thermal protection in single phase motor
- Pump with DIN flanges

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.)

Technical Data - Pumps

Suction Lift	Upto 6m / 21 ft
Nominal flow	Upto 90 m ³ /hr / 450 gpm
Maximum working head	Upto 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	32 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)
Shaft seal	Default Mechanical seal, Face Combination Silicon Carbide Vs Silicon Carbide/FKM (1to 5m ³ /h) Silicon Carbide Vs Silicon Carbide/FKM (10 to 20 m ³ /hr-upto 10stage) Tungsten Carbide Vs Carbon/FKM (10 to 20 m ³ /hr-Above 11 stage) Tungsten Carbide Vs Carbon /FKM (32 to 200m ³ /h)
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	Single Phase: 220-230V (PSC & CSCR) Three Phase: 220/ 380 /460V
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

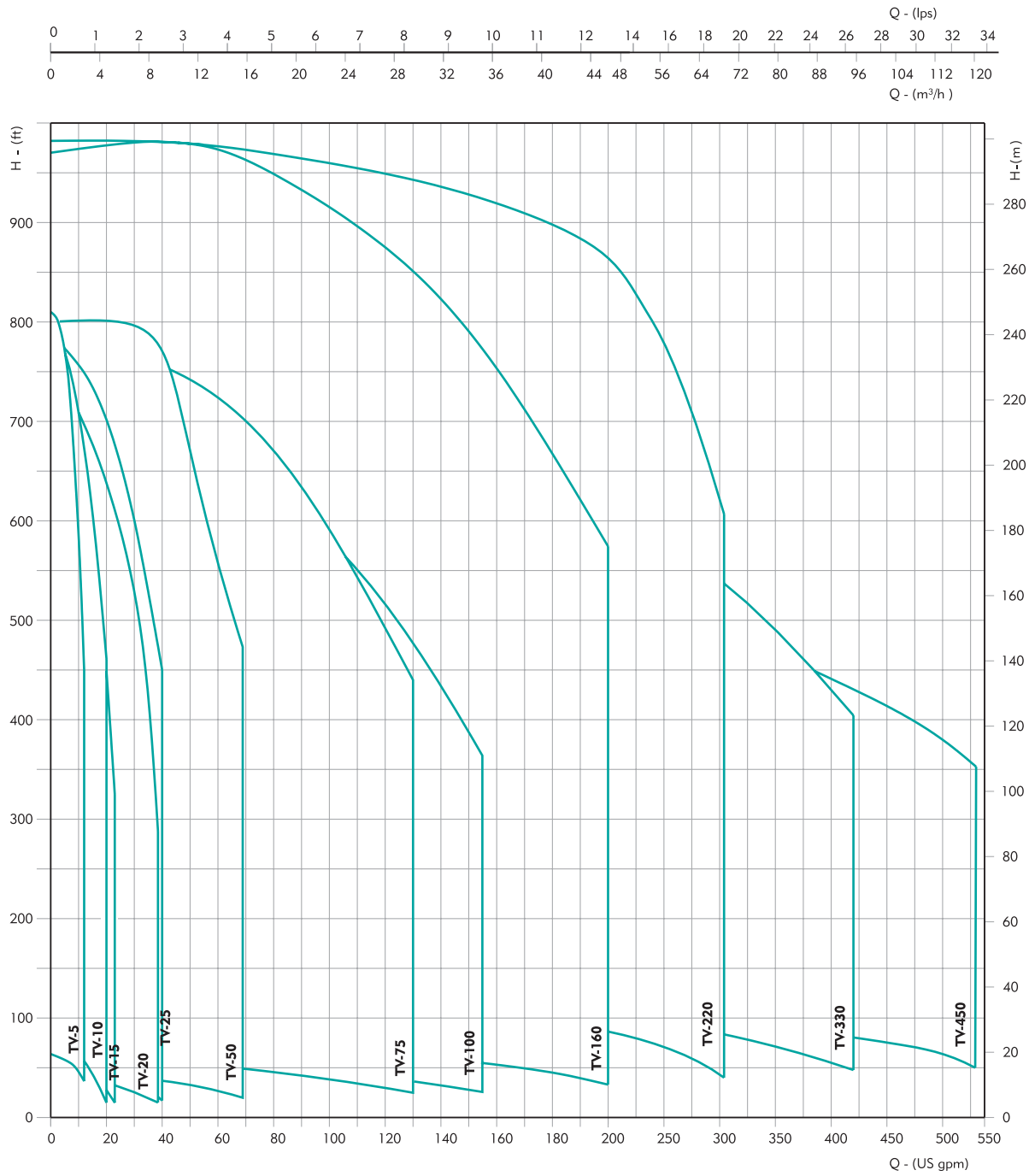
Materials Specification

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.

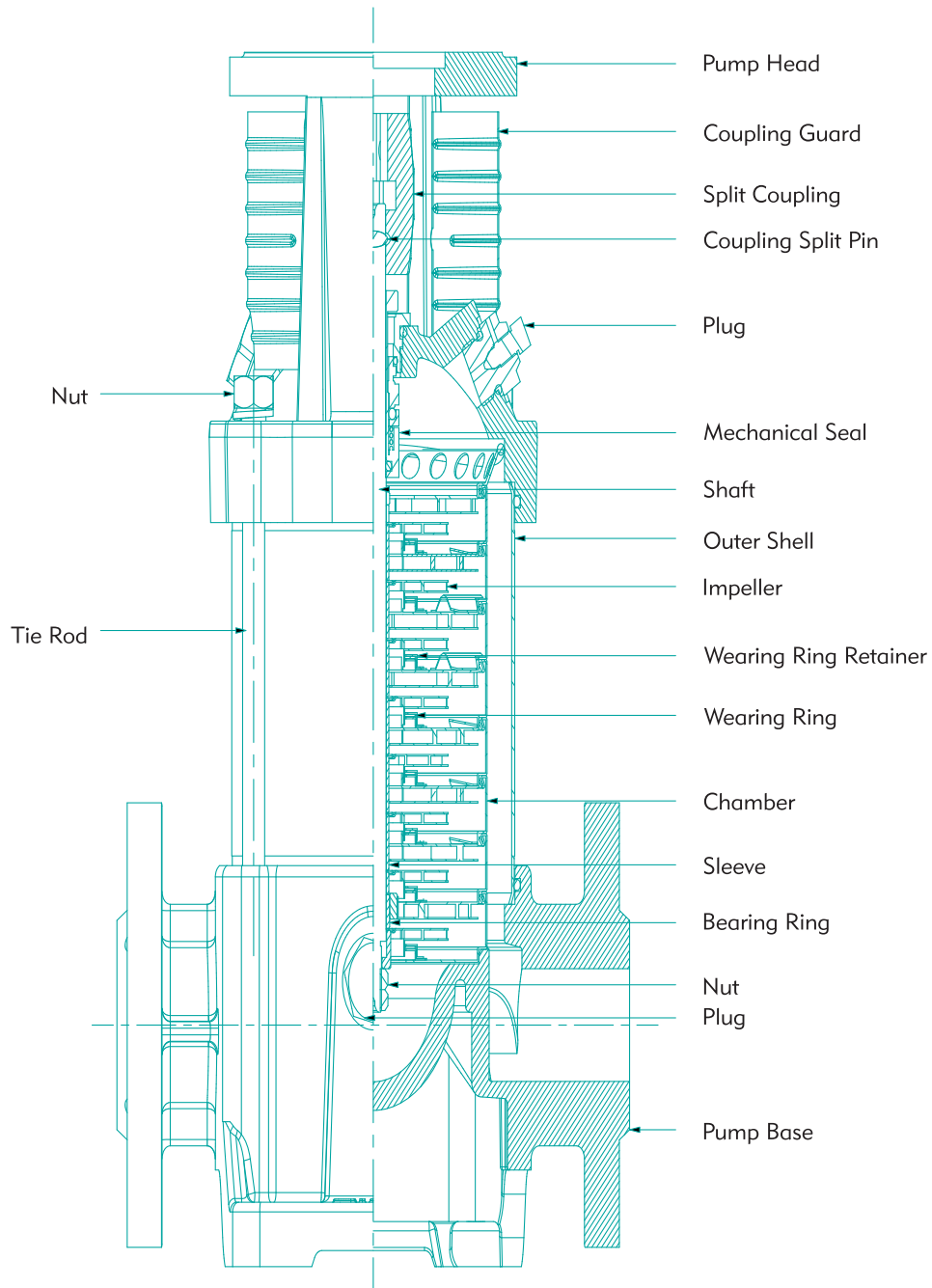
SiC - Silicon Carbidge, FKM - Fluroelarmoer (VITON), TC - Tungstan Carbidge

GROUP PERFORMANCE CURVES



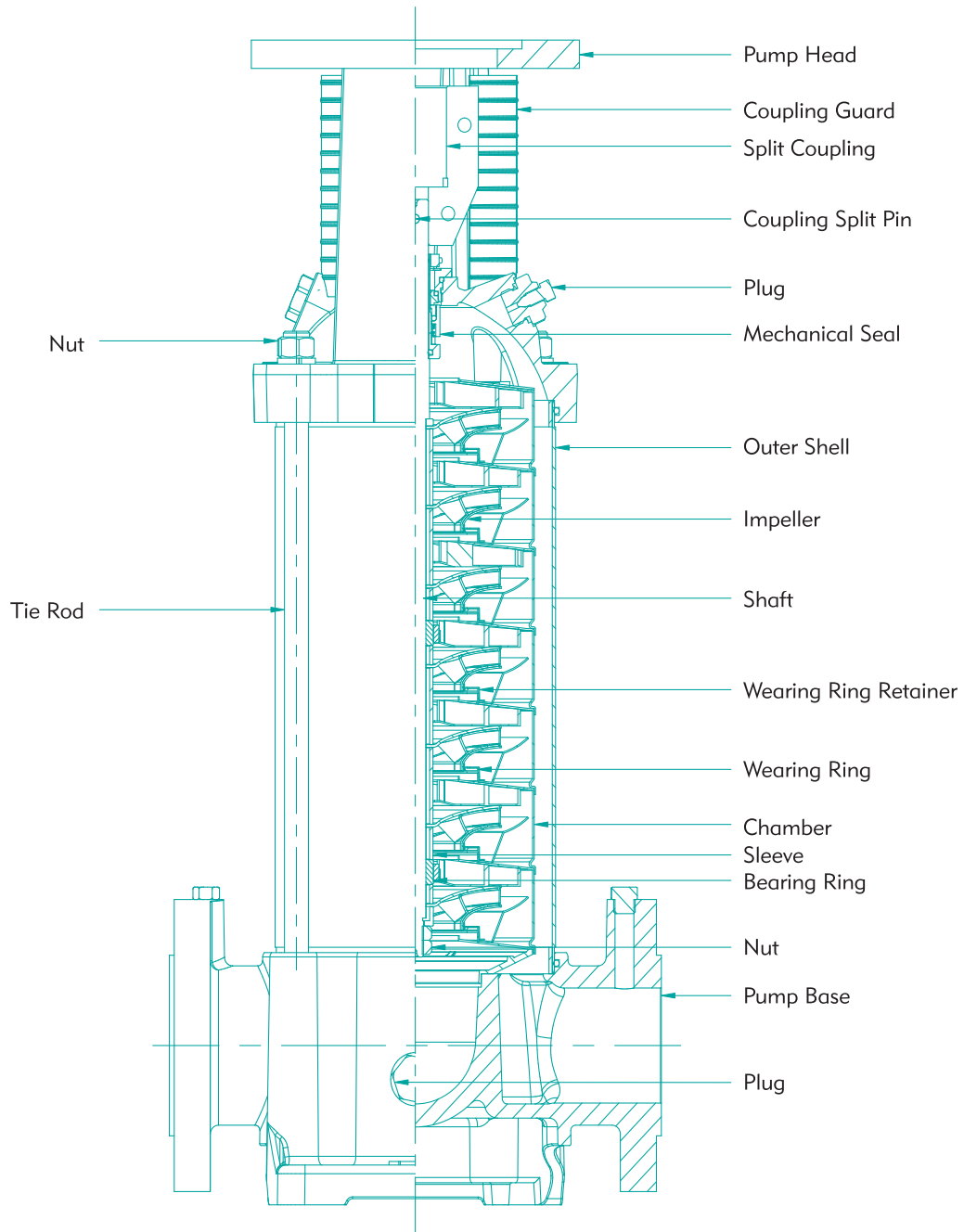
The company reserves the right to modify the technical specification and illustrations without prior notice.

CONSTRUCTIONAL DATA



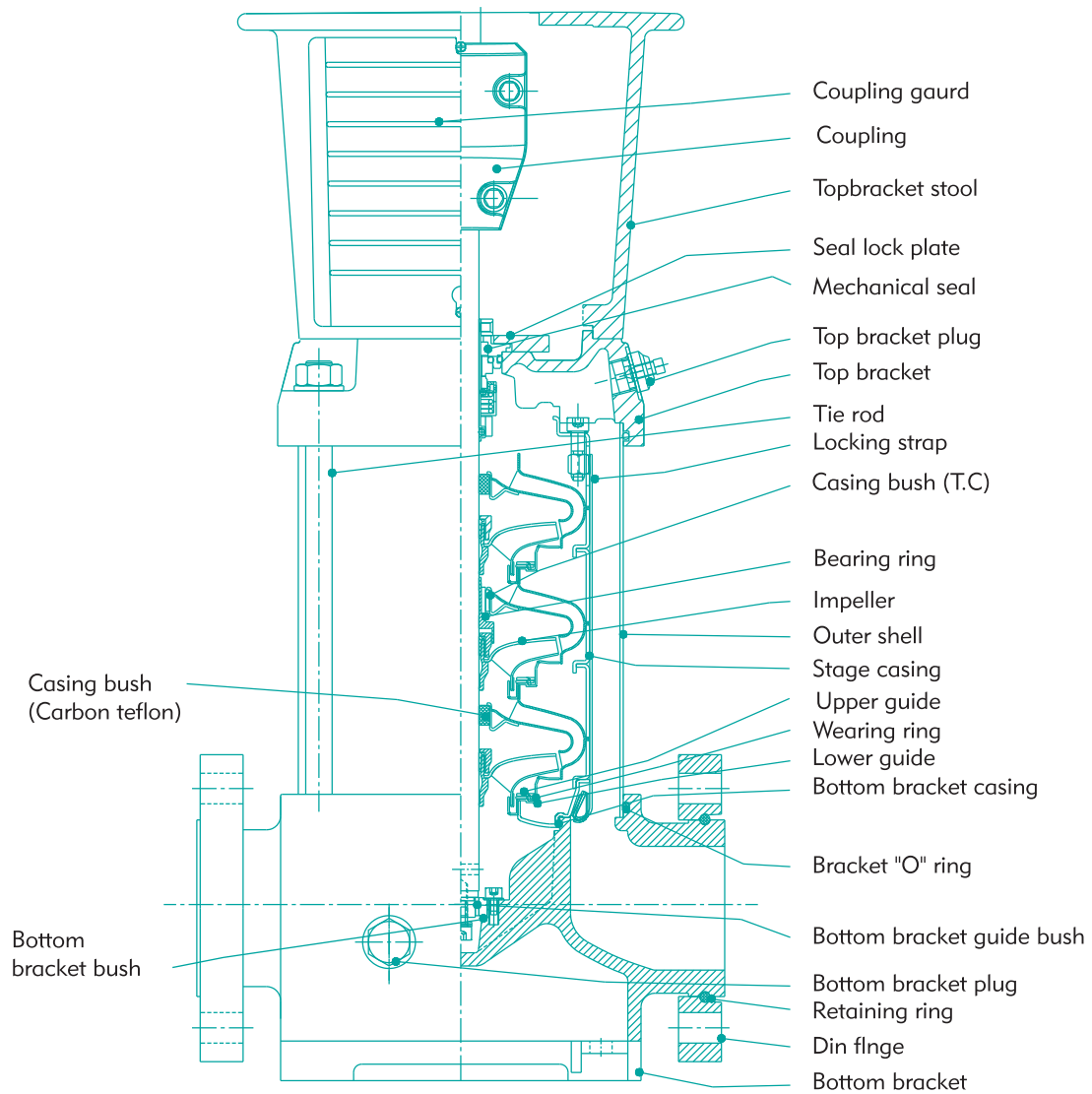
TV-RC / RS / RN (5, 10, 15 & 25 gpm)

CONSTRUCTIONAL DATA



TV-RC / RS / RN (50, 75 & 100 gpm)

CONSTRUCTIONAL DATA



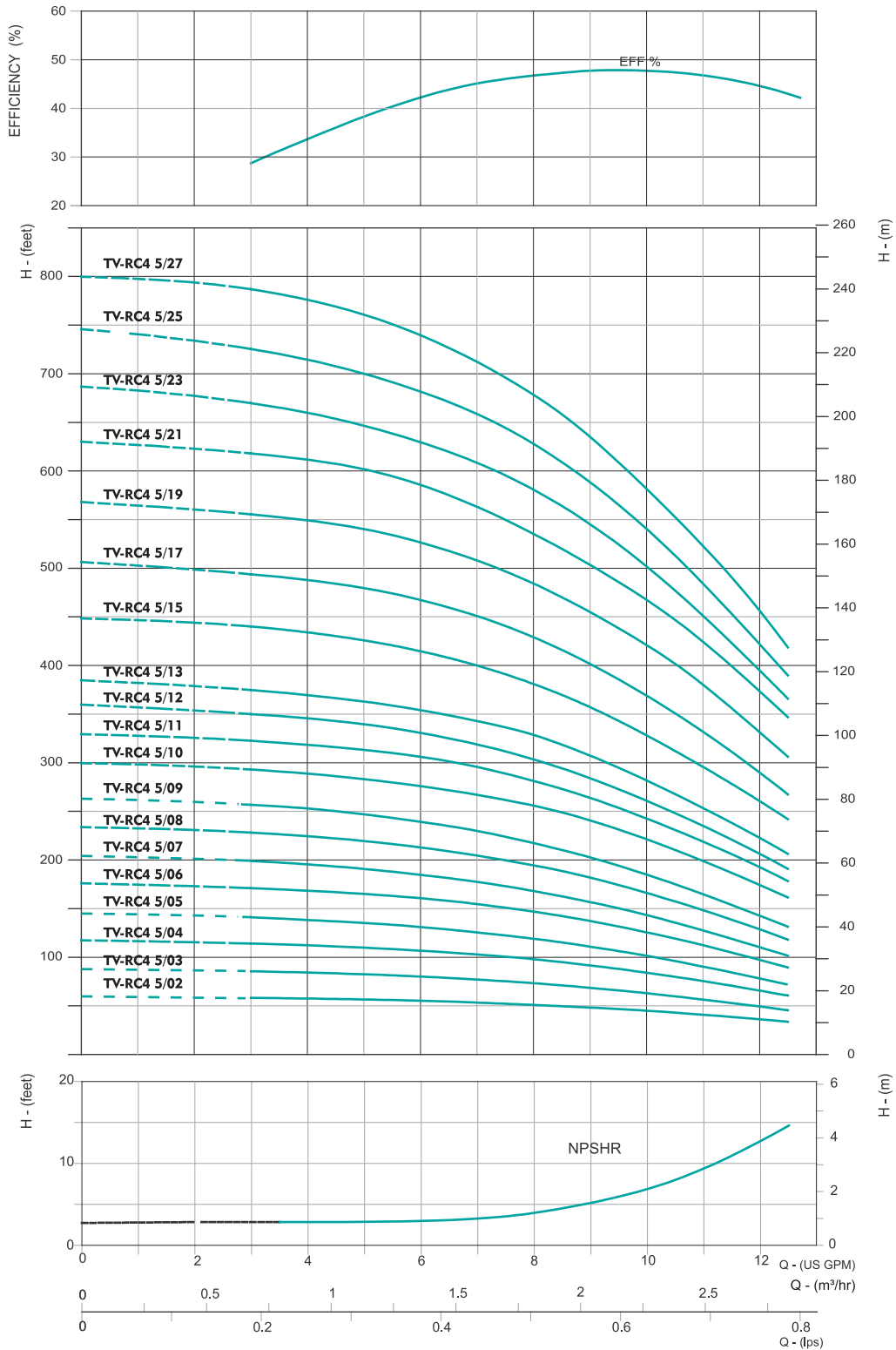
TV-RC / RS / RN (160, 220, 330 & 450 gpm)

PERFORMANCE CURVES

Pipe Size : **TV-RC - 1 1/4" x 1 1/4"**
TV-RS/RN - 1" x 1"

Nominal Flow : **5gpm (1m³/hr)**

3450 rpm



* Performance curve tolerance are as per HI: 14.6/ISO: 9906, GRADE 3B.

* The given performance is common to all types of materials of construction.

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

PERFORMANCE TABLE

Pipe Size : **TV-RC - 1 1/4" x 1 1/4"**
TV-RS/RN - 1" x 1"

Nominal Flow : **5gpm (1m³/hr)**

3450 rpm

Power		Pump Model	m ³ /hr	0	0.9	1.37	1.8	2.27	2.74
kW	HP			US gpm	0	4	6	8	10
0.37	0.5	TV-RC4 5/02	Total Manometric Head in Meter	18	18	17	16	14	11
0.37	0.5	TV-RC4 5/03		27	26	24	22	19	15
0.37	0.5	TV-RC4 5/04		36	34	33	30	26	20
0.55	0.75	TV-RC4 5/05		44	42	40	36	31	24
0.55	0.75	TV-RC4 5/06		54	52	49	45	38	30
0.75	1.0	TV-RC4 5/07		62	60	56	51	44	34
0.75	1.0	TV-RC4 5/08		71	69	65	59	51	39
0.75	1.0	TV-RC4 5/09		80	77	73	66	56	43
1.1	1.50	TV-RC4 5/10		91	89	85	79	68	54
1.1	1.50	TV-RC4 5/11		100	98	94	86	74	59
1.1	1.50	TV-RC4 5/12		110	106	101	93	80	63
1.1	1.50	TV-RC4 5/13		117	115	109	101	87	68
1.5	2.0	TV-RC4 5/15		137	133	127	117	101	80
1.5	2.0	TV-RC4 5/17		155	150	144	132	113	89
2.2	3.0	TV-RC4 5/19		173	169	162	149	129	101
2.2	3.0	TV-RC4 5/21		192	184	177	163	140	107
2.2	3.0	TV-RC4 5/23		209	204	194	178	154	120
2.2	3.0	TV-RC4 5/25	227	220	210	193	166	129	
3.0	4.0	TV-RC4 5/27	244	238	227	208	178	140	

* The 5th digit of the model identification "4" denotes 4 phase DOL (380V) & which will be replaced with "1" for 1 phase 220V; with "6" for 3 phase SD (380V); with "5" for multi voltage 220/380/440V.

* 1 Phase motors only upto 4HP.

* For fully SS304 Version replace 'RC' with 'RS'

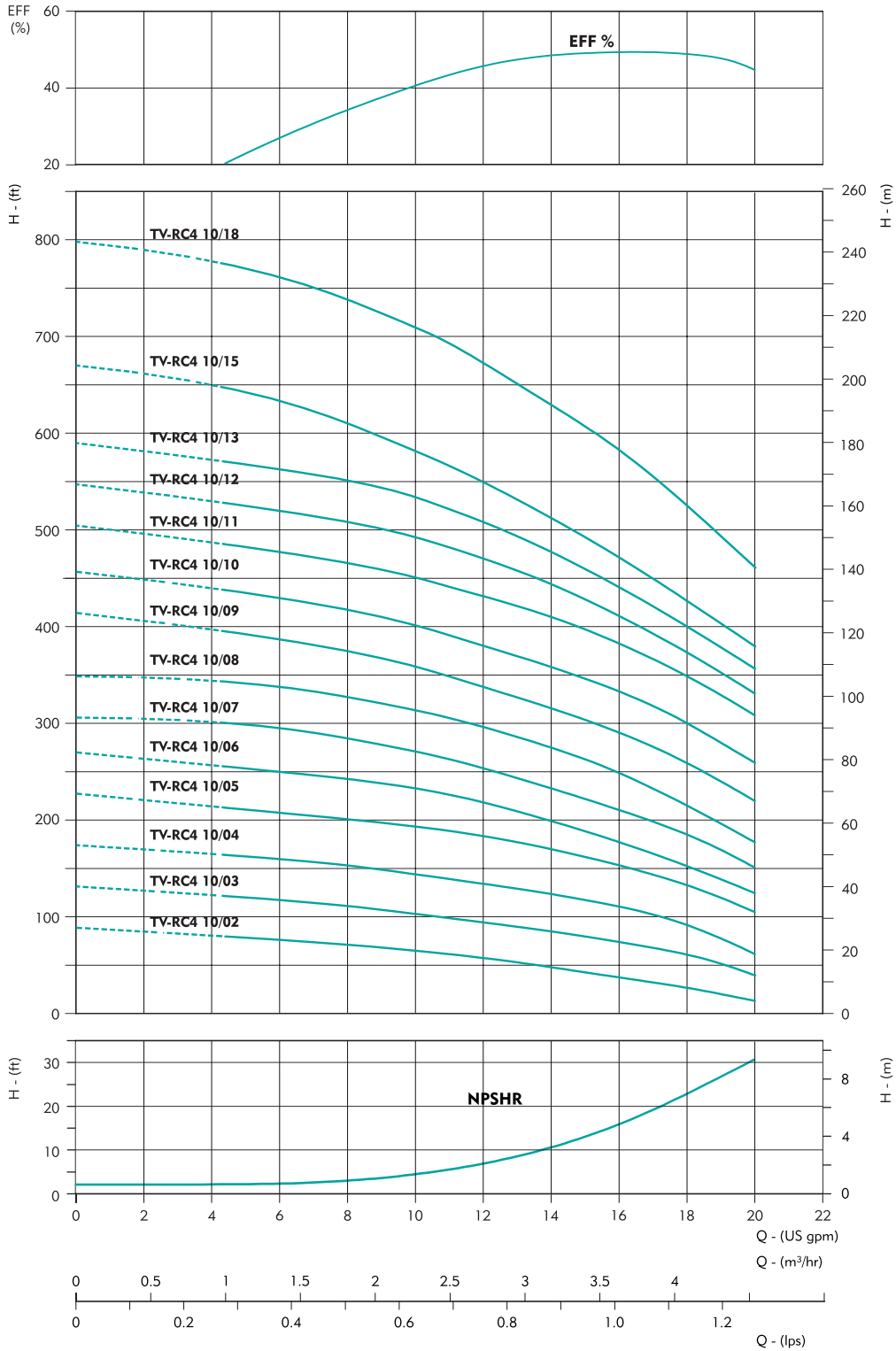
* For fully SS316 Version replace 'RC' with 'RN'

PERFORMANCE CURVES

Pipe Size : **TV-RC - 1 1/4" x 1 1/4"**
TV-RS/RN - 1" x 1"

Nominal Flow : **10gpm (2m³/hr)**

3450 rpm



* Performance curve tolerance are as per HI: 14.6/ISO: 9906, GRADE 3B.

* The given performance is common to all types of materials of construction.

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

PERFORMANCE TABLE

Pipe Size : **TV-RC - 1 1/4" x 1 1/4"**
TV-RS/RN - 1" x 1"

Nominal Flow : **10gpm (2m³/hr)**

3450 rpm

Power		Pump Model	m ³ /hr	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-RC4 10/02	Total Manometric Head in Meter	27	24	22	20	17	12	4
0.55	0.75	TV-RC4 10/03		40	37	34	31	29	23	12
0.75	1.0	TV-RC4 10/04		53	50	47	44	41	34	19
1.1	1.5	TV-RC4 10/05		69	66	61	59	56	47	32
1.1	1.5	TV-RC4 10/06		82	78	74	70	66	54	38
1.5	2.0	TV-RC4 10/07		93	92	87	82	77	64	46
2.2	3.0	TV-RC4 10/08		106	105	100	95	90	76	54
2.2	3.0	TV-RC4 10/09		126	121	114	110	103	88	67
2.2	3.0	TV-RC4 10/10		139	134	127	122	116	101	79
2.2	3.0	TV-RC4 10/11		154	148	142	137	132	116	94
2.2	3.0	TV-RC4 10/12		167	162	155	150	143	125	101
3	4.0	TV-RC4 10/13		180	175	168	162	155	134	109
3	4.0	TV-RC4 10/15		204	198	186	177	168	144	116
4	5.5	TV-RC4 10/18		243	237	225	216	205	178	141

* The 5th digit of the model identification "4" denotes 4 phase DOL (380V) & which will be replaced with "1" for 1 phase 220V; with "6" for 3 phase SD (380V); with "5" for multi voltage 220/380/440V.

* 1 Phase motors only upto 4HP.

* For fully SS304 Version replace 'RC' with 'RS'

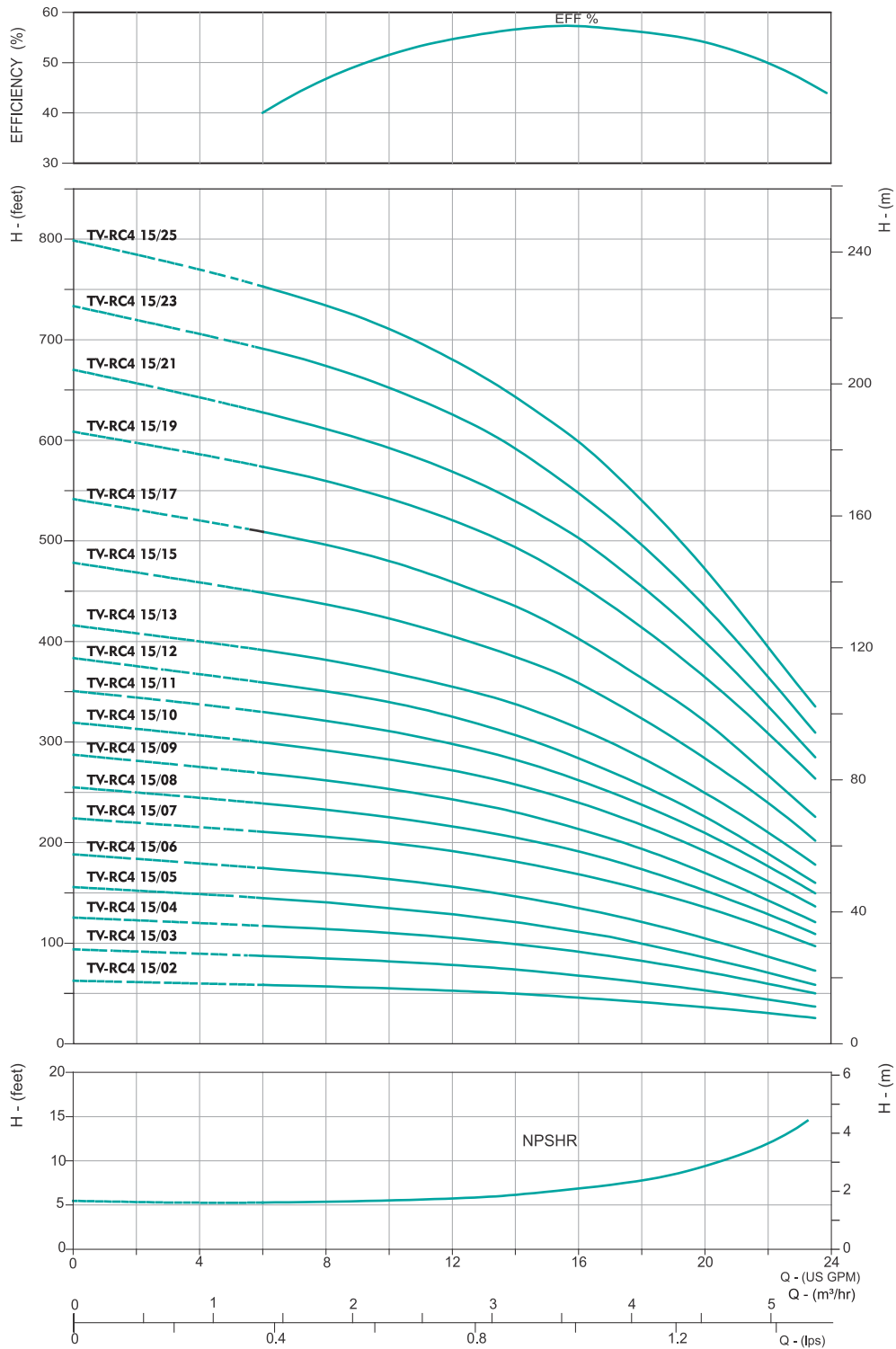
* For fully SS316 Version replace 'RC' with 'RN'

PERFORMANCE CURVES

Pipe Size : **TV-RC - 1 1/4" x 1 1/4"**
TV-RS/RN - 1" x 1"

Nominal Flow : **15gpm (3m³/hr)**

3450 rpm



* Performance curve tolerance are as per HI: 14.6/ISO: 9906, GRADE 3B.

* The given performance is common to all types of materials of construction.

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

PERFORMANCE TABLE

Pipe Size : **TV-RC - 1 1/4" x 1 1/4"**
TV-RS/RN - 1" x 1"

Nominal Flow : **15gpm (3m³/hr)**

3450 rpm

Power		Pump Model	m ³ /hr	0	1.4	2.3	3.4	4.1	5.2
kW	HP			US gpm	0	6	10	14	18
0.37	0.50	TV-RC4 15/02	Total Manometric Head in Meter	19	19	18	17	15	13
0.55	0.75	TV-RC4 15/03		29	29	27	25	23	19
0.55	0.75	TV-RC4 15/04		38	38	36	34	30	25
0.75	1.0	TV-RC4 15/05		48	48	44	41	37	30
1.1	1.5	TV-RC4 15/06		57	57	53	50	45	37
1.1	1.5	TV-RC4 15/07		68	68	64	61	55	47
1.1	1.5	TV-RC4 15/08		78	78	73	69	63	53
1.5	2.0	TV-RC4 15/09		87	87	82	78	70	59
1.5	2.0	TV-RC4 15/10		97	97	92	87	79	67
1.5	2.0	TV-RC4 15/11		107	107	101	95	87	73
2.2	3.0	TV-RC4 15/12		117	117	110	104	94	79
2.2	3.0	TV-RC4 15/13		127	127	120	113	103	87
2.2	3.0	TV-RC4 15/15		146	146	137	130	118	99
2.2	3.0	TV-RC4 15/17		165	165	155	147	133	111
3	4.0	TV-RC4 15/19		186	186	176	166	151	127
3	4.0	TV-RC4 15/21		204	204	193	182	165	139
3	4.0	TV-RC4 15/23		224	224	211	199	181	152
3	4.0	TV-RC4 15/25		244	244	230	217	196	165

* The 5th digit of the model identification "4" denotes 4 phase DOL (380V) & which will be replaced with "1" for 1 phase 220V; with "6" for 3 phase SD (380V); with "5" for multi voltage 220/380/440V.

* 1 Phase motors only upto 4HP.

* For fully SS304 Version replace 'RC' with 'RS'

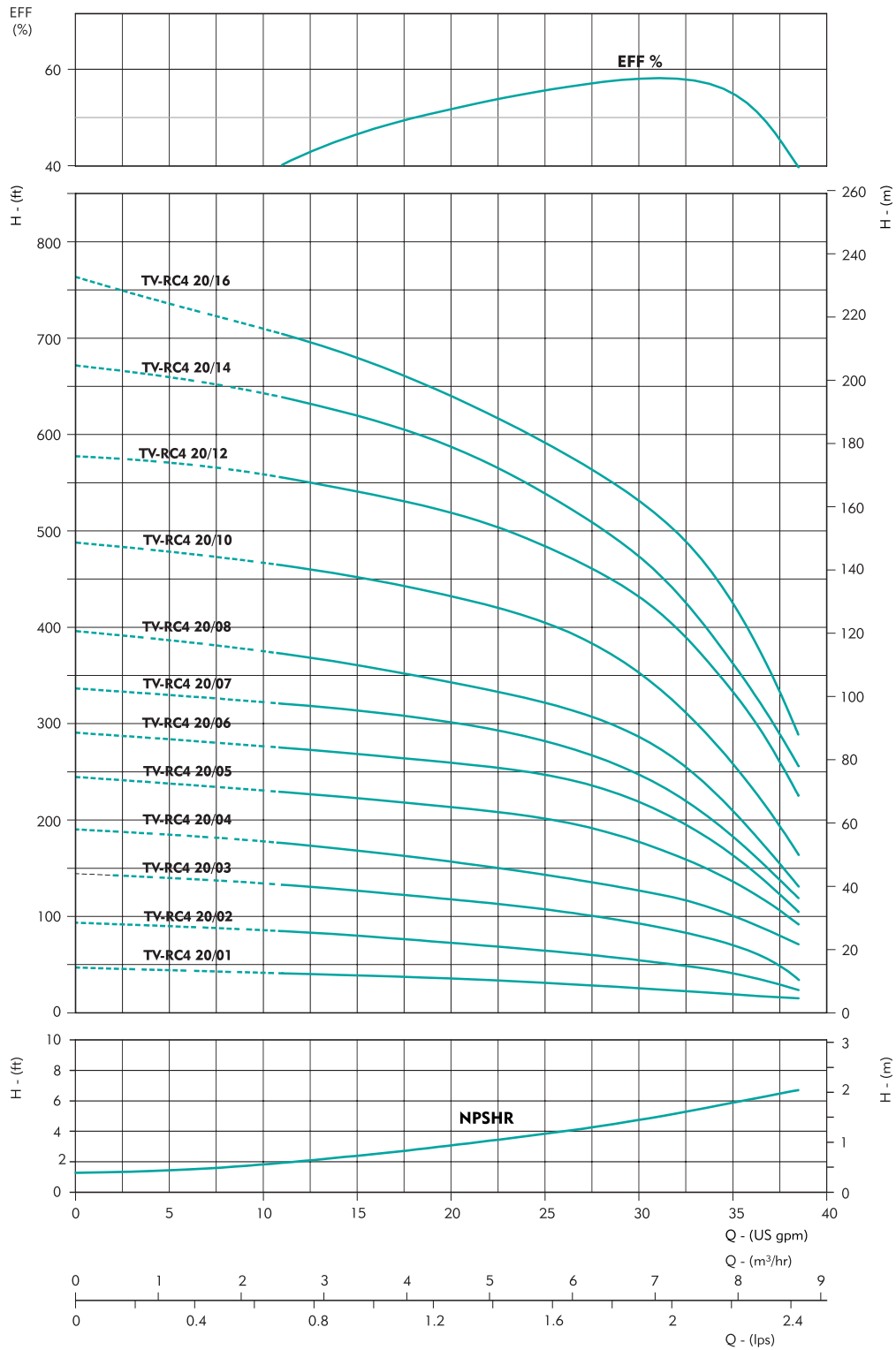
* For fully SS316 Version replace 'RC' with 'RN'

PERFORMANCE CURVES

Pipe Size : **TV-RC - 1 1/4" x 1 1/4"**
TV-RS/RN - 1" x 1"

Nominal Flow : **20gpm (4m³/hr)**

3450 rpm



* Performance curve tolerance are as per HI: 14.6/ISO: 9906, GRADE 3B.

* The given performance is common to all types of materials of construction.

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

PERFORMANCE TABLE

Pipe Size : **TV-RC - 1 1/4" x 1 1/4"**
TV-RS/RN - 1" x 1"

Nominal Flow : **20gpm (4m³/hr)**

3450 rpm

Power		Pump Model	m ³ /hr	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-RC4 20/01	Total Manometric Head in Meter	14	12	12	11	10	6	5
0.75	1.0	TV-RC4 20/02		29	26	24	22	20	12	8
0.75	1.0	TV-RC4 20/03		44	40	39	36	33	21	13
1.5	2.0	TV-RC4 20/04		58	54	51	48	44	30	23
2.2	3.0	TV-RC4 20/05		75	70	68	62	62	42	30
2.2	3.0	TV-RC4 20/06		88	84	82	79	75	50	34
3	4.0	TV-RC4 20/07		103	98	96	92	86	55	39
3	4.0	TV-RC4 20/08		120	113	110	104	98	64	44
4	5.5	TV-RC4 20/10		149	142	138	132	123	79	55
4	5.5	TV-RC4 20/12		176	169	165	158	148	101	74
5.5	7.5	TV-RC4 20/14		205	195	189	180	164	110	83
5.5	7.5	TV-RC4 20/16		233	215	207	195	180	130	94

* The 5th digit of the model identification "4" denotes 4 phase DOL (380V) & which will be replaced with "1" for 1phase 220V; with "6" for 3 phase SD (380V); with "5" for multi voltage 220/380/440V.

* 1 Phase motors only upto 4HP.

* For fully SS304 Version replace 'RC' with 'RS'

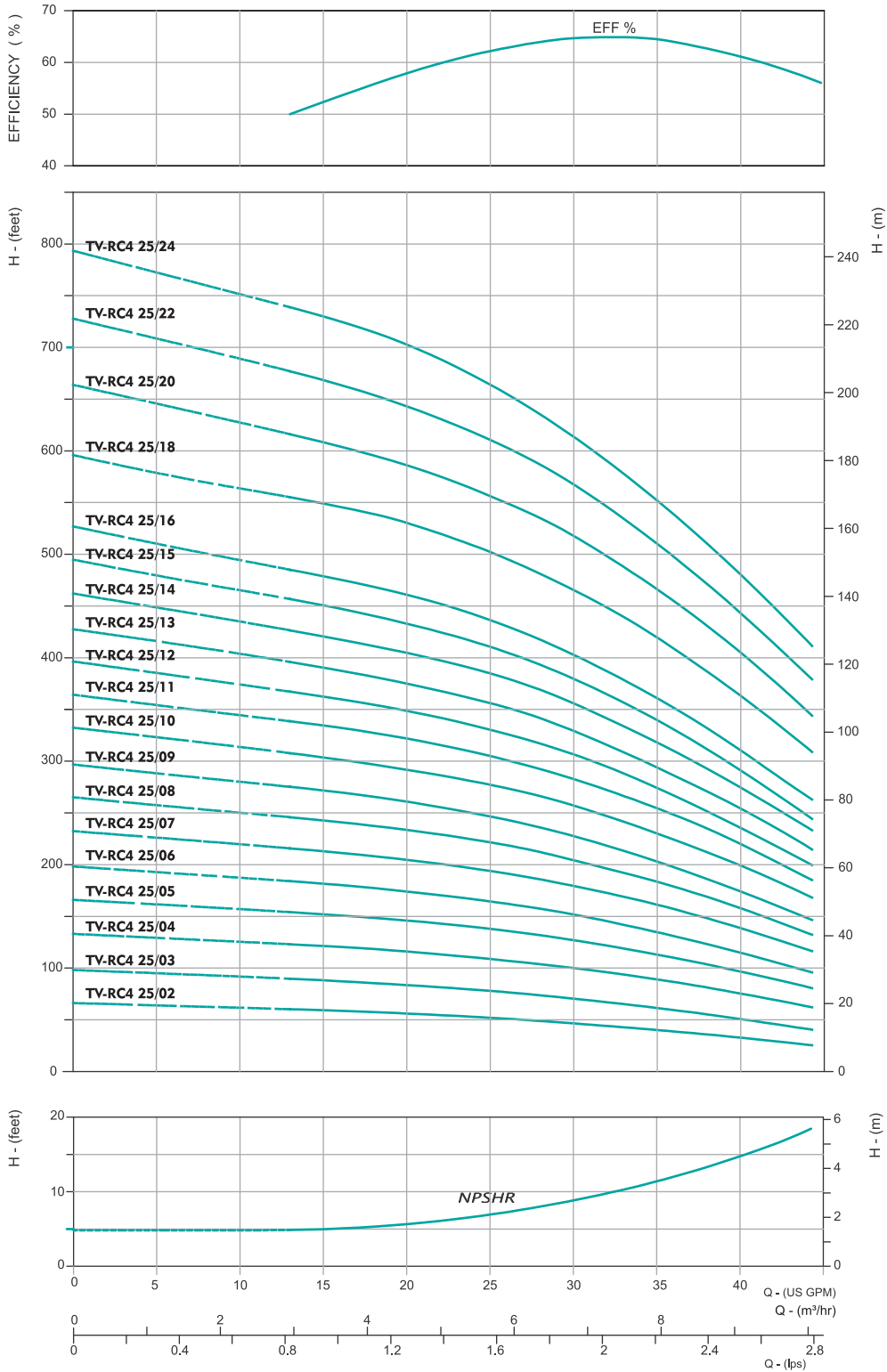
* For fully SS316 Version replace 'RC' with 'RN'

PERFORMANCE CURVES

Pipe Size : **TV-RC - 1 1/4" x 1 1/4"**
TV-RS/RN - 1" x 1"

Nominal Flow : **25gpm (5m³/hr)**

3450 rpm



* Performance curve tolerance are as per HI: 14.6/ISO: 9906, GRADE 3B.

* The given performance is common to all types of materials of construction.

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

PERFORMANCE TABLE

Pipe Size : **TV-RC - 1 1/4" x 1 1/4"**
TV-RS/RN - 1" x 1"

Nominal Flow : **25gpm (5m³/hr)**

3450 rpm

Power		Pump Model	m ³ /hr	0	2.2	4.6	6.8	8	9.1
kW	HP			US gpm	0	10	20	30	35
0.55	0.75	TV-RC4 25/02	Total Manometric Head in Meter	20	19	17	17	14	12
1.1	1.5	TV-RC4 25/03		30	28	26	26	22	19
1.1	1.5	TV-RC4 25/04		41	38	35	35	31	27
1.5	2.0	TV-RC4 25/05		51	48	45	45	39	35
2.2	3.0	TV-RC4 25/06		60	57	53	53	46	41
2.2	3.0	TV-RC4 25/07		71	67	63	63	55	49
2.2	3.0	TV-RC4 25/08		81	76	71	71	62	56
2.2	3.0	TV-RC4 25/09		91	85	80	80	70	62
3.0	4.0	TV-RC4 25/10		101	96	89	89	79	70
3.0	4.0	TV-RC4 25/11		111	105	98	98	86	78
3.0	4.0	TV-RC4 25/12		121	114	107	107	94	84
4.0	5.5	TV-RC4 25/13		130	124	115	115	101	90
4.0	5.5	TV-RC4 25/14		141	133	124	124	109	98
4.0	5.5	TV-RC4 25/15		151	142	132	132	116	104
4.0	5.5	TV-RC4 25/16		161	151	141	141	123	110
5.5	7.5	TV-RC4 25/18		182	161	162	162	142	128
5.5	7.5	TV-RC4 25/20		202	172	180	180	158	142
5.5	7.5	TV-RC4 25/22		222	180	197	197	174	156
5.5	7.5	TV-RC4 25/24		242	229	215	215	188	169

* The 5th digit of the model identification "4" denotes 4 phase DOL (380V) & which will be replaced with "1" for 1 phase 220V; with "6" for 3 phase SD (380V); with "5" for multi voltage 220/380/440V.

* 1 Phase motors only upto 4HP.

* For fully SS304 Version replace 'RC' with 'RS'

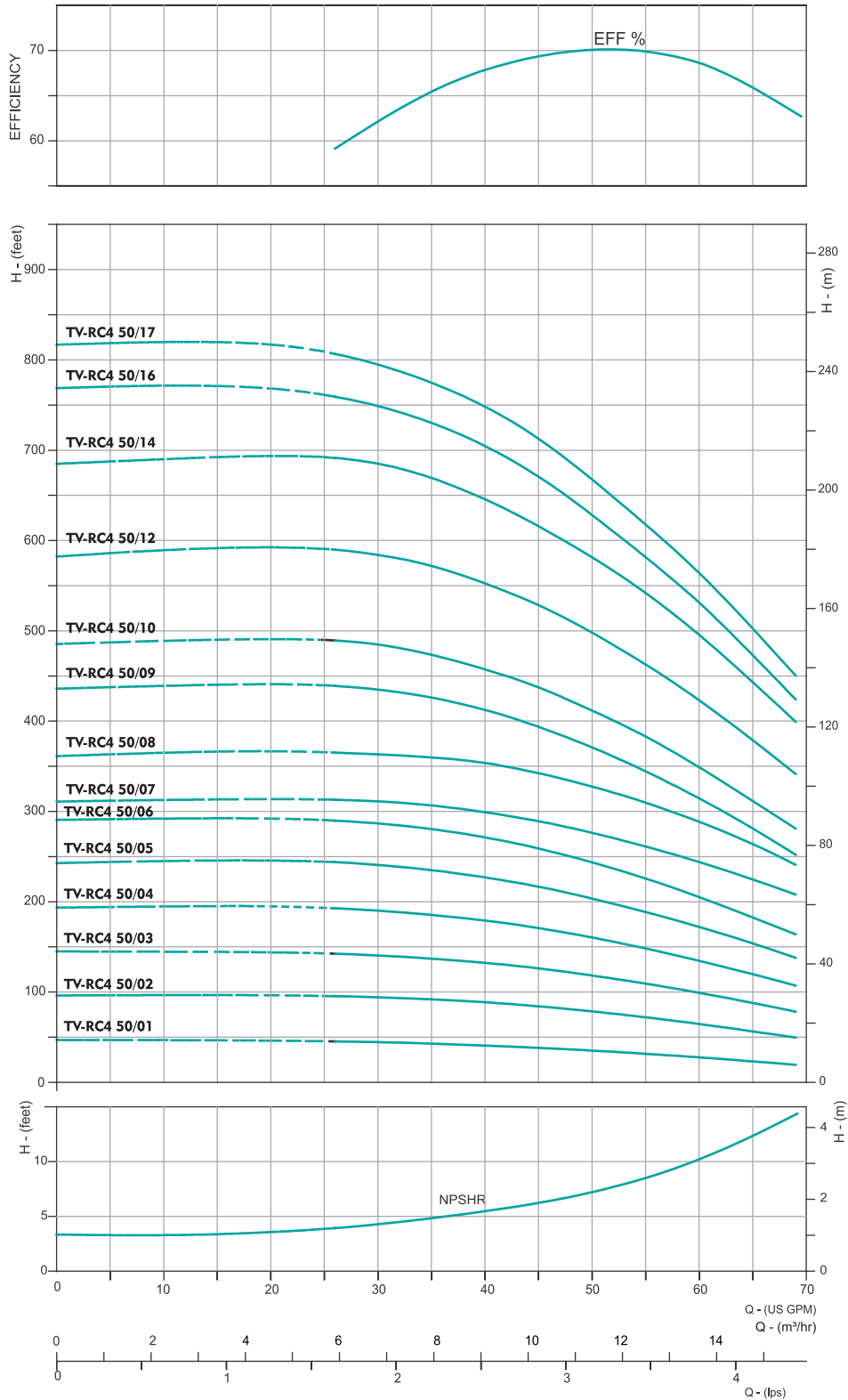
* For fully SS316 Version replace 'RC' with 'RN'

PERFORMANCE CURVES

Pipe Size : **TV-RC/RS/RN - 1½" x 1½"**

Nominal Flow : **50gpm (10m³/hr)**

3450 rpm



* Performance curve tolerance are as per HI: 14.6/ISO: 9906, GRADE 3B.

* The given performance is common to all types of materials of construction.

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

PERFORMANCE TABLE

Pipe Size : **TV-RC/RS/RN - 1½" x 1½"**

Nominal Flow : **50gpm (10m³/hr)**

3450 rpm

Power		Pump Model	m ³ /hr	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-RC4 50/01	Total Manometric Head in Meter	14	14	14	14	12	11	9	7
1.1	1.5	TV-RC4 50/02		29	30	30	29	27	24	20	17
2.2	3.0	TV-RC4 50/03		44	44	44	43	41	36	30	27
2.2	3.0	TV-RC4 50/04		59	59	60	58	55	49	41	37
4.0	5.5	TV-RC4 50/05		74	75	75	73	69	62	53	47
4.0	5.5	TV-RC4 50/06		89	89	89	88	83	74	63	56
5.5	7.5	TV-RC4 50/07		95	95	96	95	91	84	75	69
5.5	7.5	TV-RC4 50/08		110	112	112	111	108	100	88	81
5.5	7.5	TV-RC4 50/09		133	134	134	134	126	113	96	86
5.5	7.5	TV-RC4 50/10		148	149	150	148	140	126	107	95
7.5	10	TV-RC4 50/12		177	180	181	178	169	152	130	116
11	15	TV-RC4 50/14		209	211	211	210	197	178	151	136
11	15	TV-RC4 50/16		238	240	242	239	226	204	172	156
11	15	TV-RC4 50/17		249	250	249	244	229	204	175	154

* The 5th digit of the model identification "4" denotes 4 phase DOL (380V) & which will be replaced with "1" for 1 phase 220V; with "6" for 3 phase SD (380V); with "5" for multi voltage 220/380/440V.

* 1 Phase motors only upto 4HP.

* For fully SS304 Version replace 'RC' with 'RS'

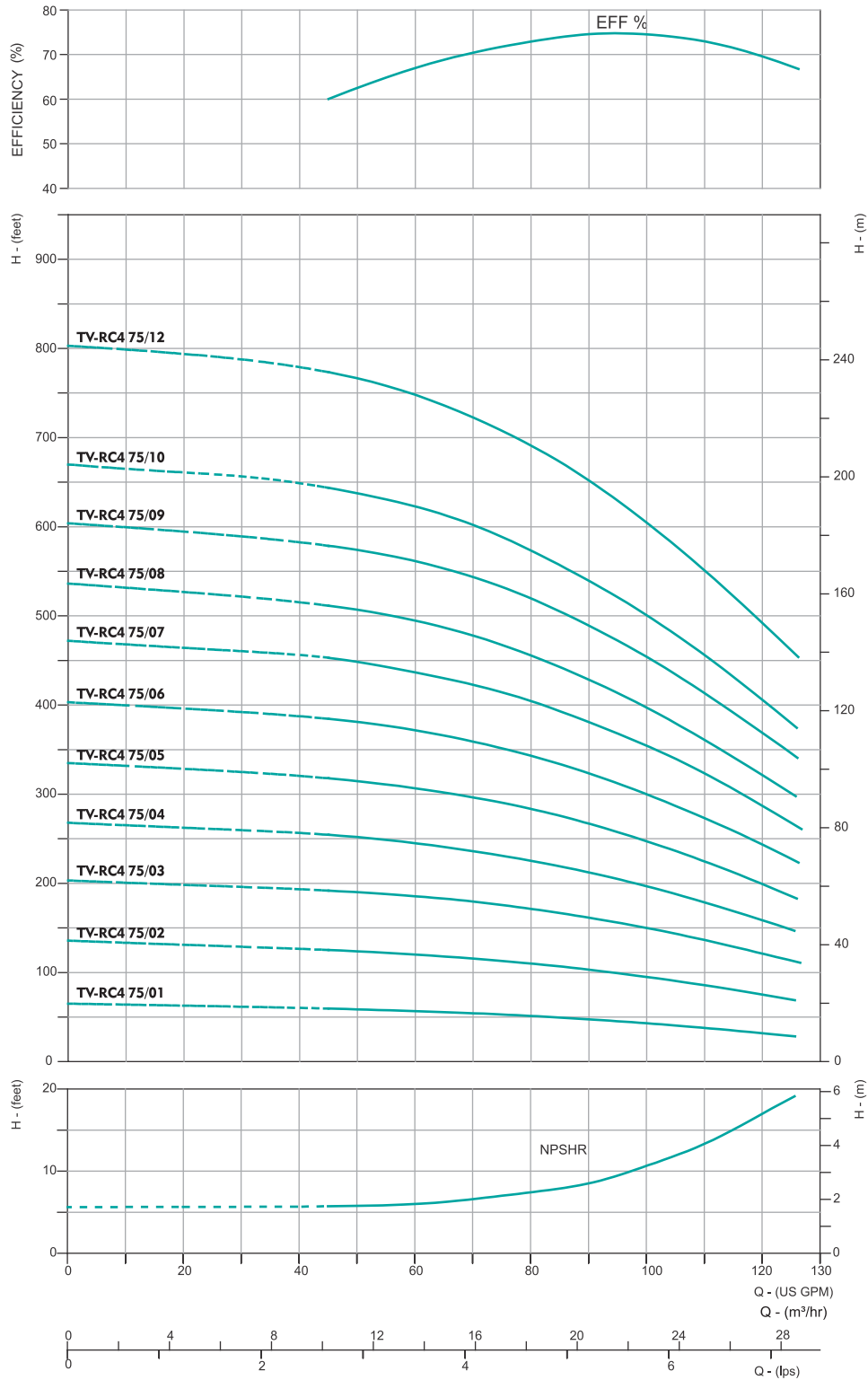
* For fully SS316 Version replace 'RC' with 'RN'

PERFORMANCE CURVES

Pipe Size : **TV-RC/RS/RN - 2" x 2"**

Nominal Flow : **75gpm (15m³/hr)**

3450 rpm



* Performance curve tolerance are as per HI: 14.6/ISO: 9906, GRADE 3B.

* The given performance is common to all types of materials of construction.

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

PERFORMANCE TABLE

Pipe Size : **TV-RC/RS/RN - 2" x 2"**

Nominal Flow : **75gpm (15m³/hr)**

3450 rpm

Power		Pump Model	m ³ /hr	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-RC4 75/01	Total Manometric Head in Meter	20	19	18	17	16	13	10	9
4.0	5.5	TV-RC4 75/02		41	40	39	37	34	29	23	21
5.5	7.5	TV-RC4 75/03		62	60	59	57	52	46	37	34
5.5	7.5	TV-RC4 75/04		82	80	79	75	69	60	48	45
7.5	10	TV-RC4 75/05		102	100	98	94	87	76	61	57
11	15	TV-RC4 75/06		123	121	119	114	105	92	74	69
11	15	TV-RC4 75/07		144	141	140	134	124	108	87	82
11	15	TV-RC4 75/08		164	161	158	152	140	122	98	92
15	20	TV-RC4 75/09		184	181	179	173	159	139	112	105
15	20	TV-RC4 75/10		204	201	198	191	175	153	124	116
18.5	25	TV-RC4 75/12		245	242	239	230	212	185	150	141

* The 5th digit of the model identification "4" denotes 4 phase DOL (380V) & which will be replaced with "1" for 1 phase 220V; with "6" for 3 phase SD (380V); with "5" for multi voltage 220/380/440V.

* 1 Phase motors only upto 4HP.

* For fully SS304 Version replace 'RC' with 'RS'

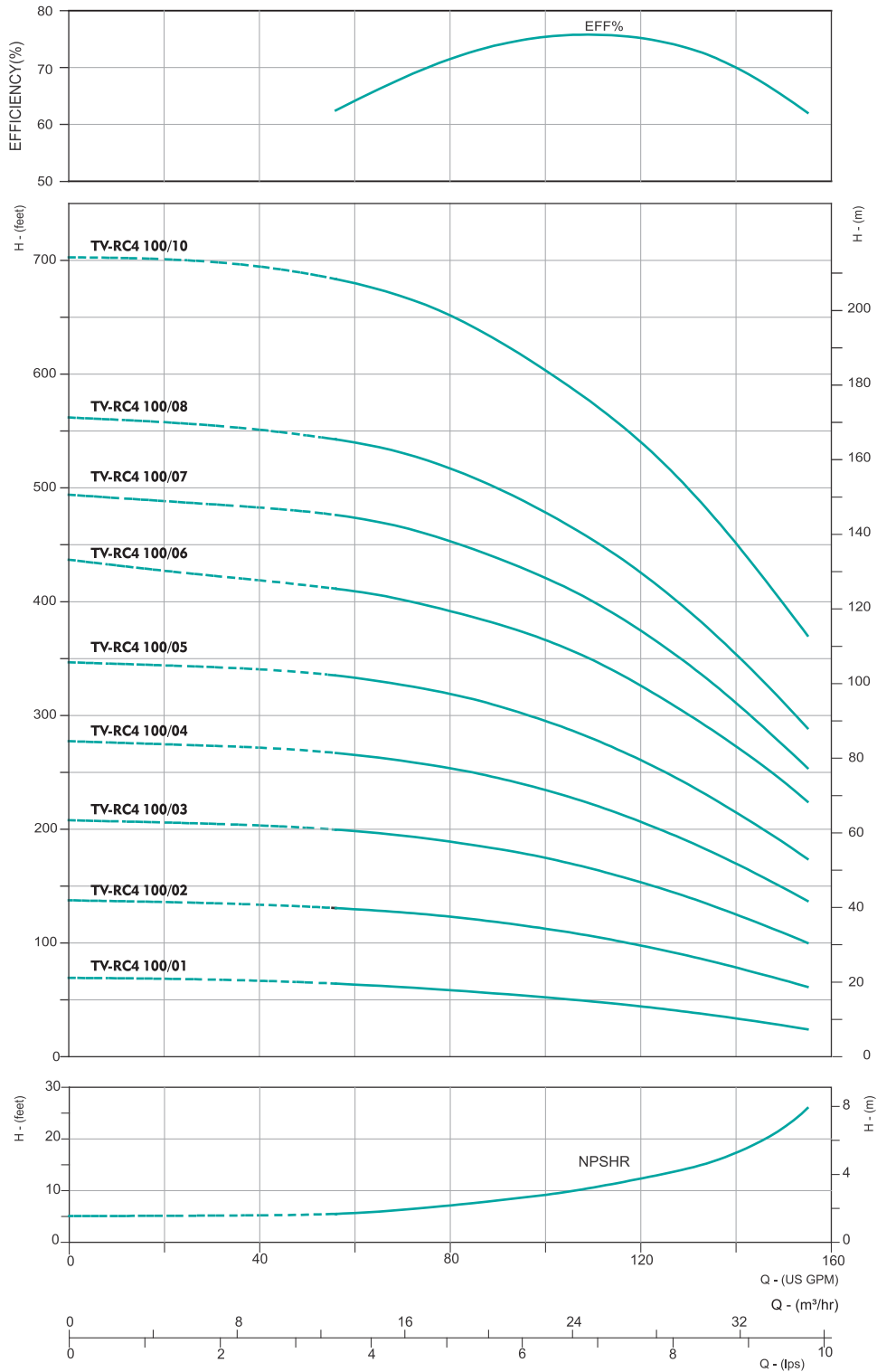
* For fully SS316 Version replace 'RC' with 'RN'

PERFORMANCE CURVES

Pipe Size : **TV-RC/RS/RN - 2" x 2"**

Nominal Flow : **100gpm (20m³/hr)**

3450 rpm



* Performance curve tolerance are as per HI: 14.6/ISO: 9906, GRADE 3B.

* The given performance is common to all types of materials of construction.

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

PERFORMANCE TABLE

Pipe Size : **TV-RC/RS/RN - 2" x 2"**

Nominal Flow : **100gpm (20m³/hr)**

3450 rpm

Power		Pump Model	m ³ /hr	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
2.2	3.0	TV-RC4 100/01	Total Manometric Head in Meter	21	21	20	20	18	16	13	10	7
4.0	5.5	TV-RC4 100/02		42	41	41	40	37	34	30	24	20
5.5	7.5	TV-RC4 100/03		63	63	62	61	58	53	47	38	33
7.5	10	TV-RC4 100/04		84	84	83	81	77	72	63	52	45
11	15	TV-RC4 100/05		106	105	104	102	98	90	80	66	58
11	15	TV-RC4 100/06		133	130	128	125	120	112	100	84	74
15	20	TV-RC4 100/07		151	149	147	145	139	129	115	95	84
15	20	TV-RC4 100/08		171	170	168	165	158	146	130	108	95
18.5	25	TV-RC4 100/10		214	214	212	208	200	185	165	138	122

* The 5th digit of the model identification "4" denotes 4 phase DOL (380V) & which will be replaced with "1" for 1 phase 220V; with "6" for 3 phase SD (380V); with "5" for multi voltage 220/380/440V.

* 1 Phase motors only upto 4HP.

* For fully SS304 Version replace 'RC' with 'RS'

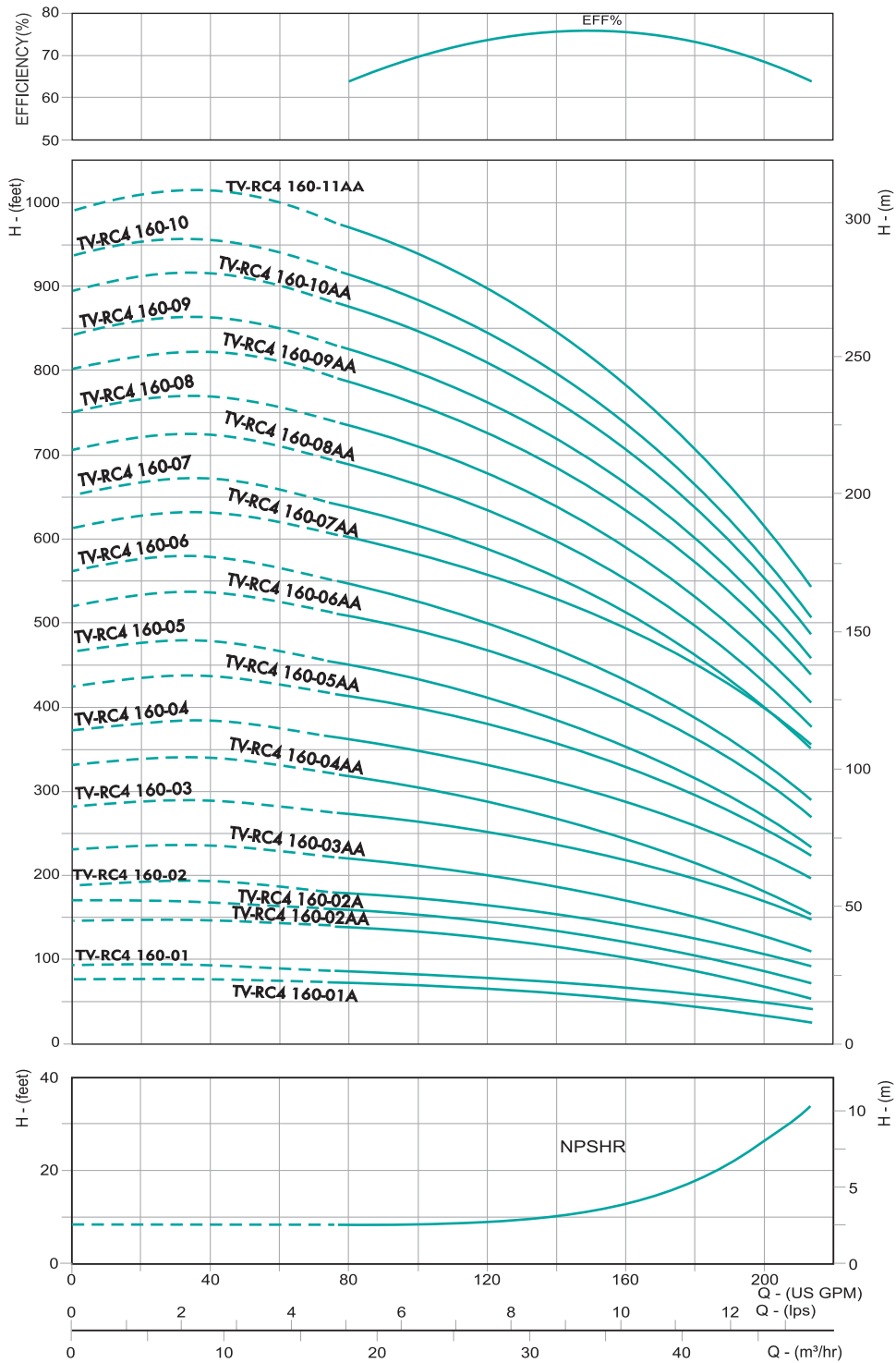
* For fully SS316 Version replace 'RC' with 'RN'

PERFORMANCE CURVES

Pipe Size : **TV-RC/RS/RN - 2½" x 2½"**

Nominal Flow : **160gpm (32m³/hr)**

3450 rpm



* Performance curve tolerance are as per HI: 14.6/ISO: 9906, GRADE 3B.

* The given performance is common to all types of materials of construction.

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

PERFORMANCE TABLE

Pipe Size : **TV-RC/RS/RN - 2½" x 2½"**

Nominal Flow : **160gpm (32m³/hr)**

3450 rpm

Power		Pump Model	m³/hr	0	9	18.2	27.25	36.3	40.88	45.6
kW	HP			US gpm	0	40	80	120	160	180
2.2	3.0	TV-RC4 160/01A	Total Manometric Head in Meter	23	23	23	20	16	13	10
4.0	5.5	TV-RC4 160/01		29	28	26	24	20	18	15
5.5	7.5	TV-RC4 160/02AA		45	45	42	38	32	27	21
5.5	7.5	TV-RC4 160/02A		52	51	48	44	37	32	26
7.5	10	TV-RC4 160/02		57	58	55	50	42	38	33
7.5	10	TV-RC4 160/03AA		71	71	67	61	52	46	39
11	15	TV-RC4 160/03		86	87	83	77	66	60	52
11	15	TV-RC4 160/04AA		101	103	97	88	75	66	55
11	15	TV-RC4 160/04		114	116	111	101	88	80	69
15	20	TV-RC4 160/05AA		129	133	126	115	100	90	78
15	20	TV-RC4 160/05		142	146	137	125	108	97	83
18.5	25	TV-RC4 160/06AA		158	163	155	142	124	111	95
18.5	25	TV-RC4 160/06		171	176	166	152	132	118	101
18.5	30	TV-RC4 160/07AA		187	192	184	170	151	137	122
22	25	TV-RC4 160/07		199	204	195	179	156	141	122
22	30	TV-RC4 160/08AA		215	220	210	193	168	152	131
22	30	TV-RC4 160/08		229	234	224	206	180	162	141
30	40	TV-RC4 160/09AA		244	250	240	221	193	175	152
30	40	TV-RC4 160/09		257	263	252	232	203	183	159
30	40	TV-RC4 160/10AA		273	279	267	246	215	194	169
30	40	TV-RC4 160/10	286	261	279	257	225	202	176	
30	40	TV-RC4 160/11AA	302	309	296	273	239	216	188	

* The 5th digit of the model identification "4" denotes 4 phase DOL (380V) & which will be replaced with "1" for 1phase 220V; with "6" for 3 phase SD (380V); with "5" for multi voltage 220/380/440V.

* A / AA Denotes abridged version.

* For fully SS304 Version replace 'RC' with 'RS'

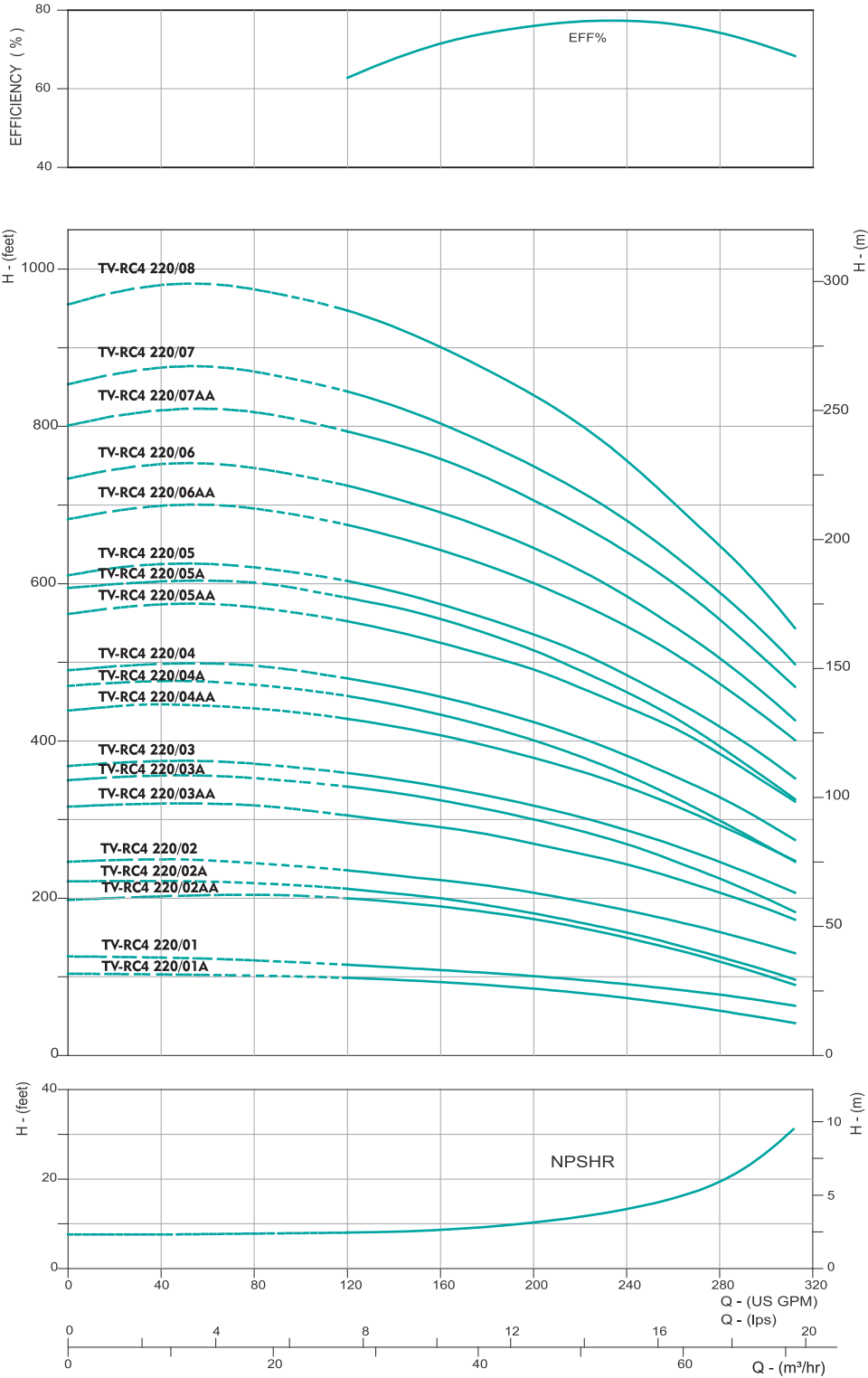
* For fully SS316 Version replace 'RC' with 'RN'

PERFORMANCE CURVES

Pipe Size : **TV-RC/RS/RN - 3" x 3"**

Nominal Flow : **220gpm (44m³/hr)**

3450 rpm



* Performance curve tolerance are as per HI: 14.6/ISO: 9906, GRADE 3B.

* The given performance is common to all types of materials of construction.

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

PERFORMANCE TABLE

Pipe Size : **TV-RC/RS/RN - 3" x 3"**

Nominal Flow : **220gpm (44m³/hr)**

3450 rpm

Power		Pump Model	m ³ /hr	0	18.2	27.25	36.3	45.6	54.6	69.1
kW	HP			US gpm	0	80	120	160	200	240
5.5	7.5	TV-RC4 220/01A	Total Manometric Head in Meter	32	31	30	29	26	22	14
5.5	7.5	TV-RC4 220/01		38	37	35	33	31	28	21
11	15	TV-RC4 220/02AA		60	62	61	58	53	45	31
11	15	TV-RC4 220/02A		67	67	65	61	55	48	33
11	15	TV-RC4 220/02		75	75	72	68	63	56	43
15	25	TV-RC4 220/03AA		96	97	93	88	82	74	57
18.5	25	TV-RC4 220/03A		107	107	104	99	91	82	61
18.5	20	TV-RC4 220/03		112	113	109	104	97	87	68
22	30	TV-RC4 220/04AA		134	135	131	124	116	105	81
22	30	TV-RC4 220/04A		143	144	140	133	123	110	82
22	30	TV-RC4 220/04		149	151	146	138	129	116	90
30	40	TV-RC4 220/05AA		171	173	168	160	150	135	106
30	40	TV-RC4 220/05A		181	183	177	160	157	141	107
30	40	TV-RC4 220/05		186	189	184	169	163	147	116
37	50	TV-RC4 220/06AA		208	212	205	196	183	166	131
37	50	TV-RC4 220/06		224	227	221	211	197	178	140
37	60	TV-RC4 220/07AA		244	249	242	231	215	195	154
45	50	TV-RC4 220/07		260	265	258	246	230	209	164
45	60	TV-RC4 220/08A	291	296	289	275	256	230	180	

* The 5th digit of the model identification "4" denotes 4 phase DOL (380V) & which will be replaced with "1" for 1 phase 220V; with "6" for 3 phase SD (380V); with "5" for multi voltage 220/380/440V.

* A / AA Denotes abridged version.

* For fully SS304 Version replace 'RC' with 'RS'

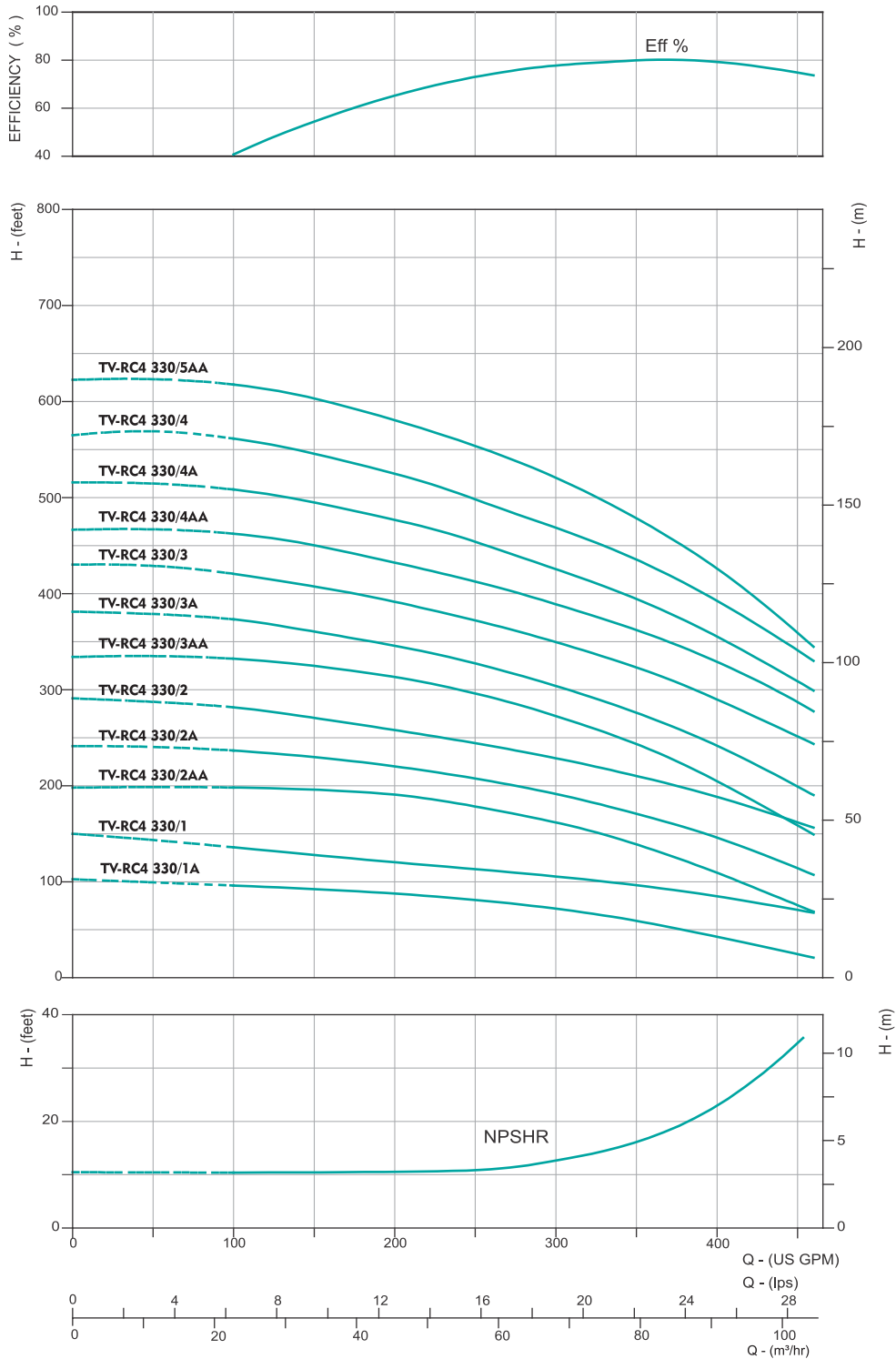
* For fully SS316 Version replace 'RC' with 'RN'

PERFORMANCE CURVES

Pipe Size : **TV-RC/RS/RN - 4" x 4"**

Nominal Flow : **330gpm (66m³/hr)**

3450 rpm



* Performance curve tolerance are as per HI: 14.6/ISO: 9906, GRADE 3B.

* The given performance is common to all types of materials of construction.

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

PERFORMANCE TABLE

Pipe Size : **TV-RC/RS/RN - 4" x 4"**

Nominal Flow : **330gpm (66m³/hr)**

3450 rpm

Power		Pump Model	m ³ /hr	0	22.7	45.6	68.2	75	90.9	95.6
kW	HP			US gpm	0	100	200	300	330	400
7.5	10	TV-RC4 330/01A	Total Manometric Head in Meter	31	29	27	22	20	13	11
11	15	TV-RC4 330/01		46	41	37	32	31	26	24
15	20	TV-RC4 330/02AA		60	60	58	49	45	33	29
18.5	25	TV-RC4 330/02A		73	72	67	58	55	45	41
22	30	TV-RC4 330/02		89	86	79	70	66	57	54
22	30	TV-RC4 330/03AA		102	101	95	83	78	62	57
30	40	TV-RC4 330/03A		116	114	105	93	88	73	69
30	40	TV-RC4 330/03		131	128	119	107	102	88	84
45	60	TV-RC4 330/04AA		142	141	132	119	114	100	95
37	50	TV-RC4 330/04A		157	155	145	130	124	108	103
45	50	TV-RC4 330/04		172	171	160	143	137	119	114
45	60	TV-RC4 330/05AA		190	188	177	158	151	130	122

* The 5th digit of the model identification "4" denotes 4 phase DOL (380V) & which will be replaced with "1" for 1phase 220V; with "6" for 3 phase SD (380V); with "5" for multi voltage 220/380/440V.

* A / AA Denotes abridged version.

* For fully SS304 Version replace 'RC' with 'RS'

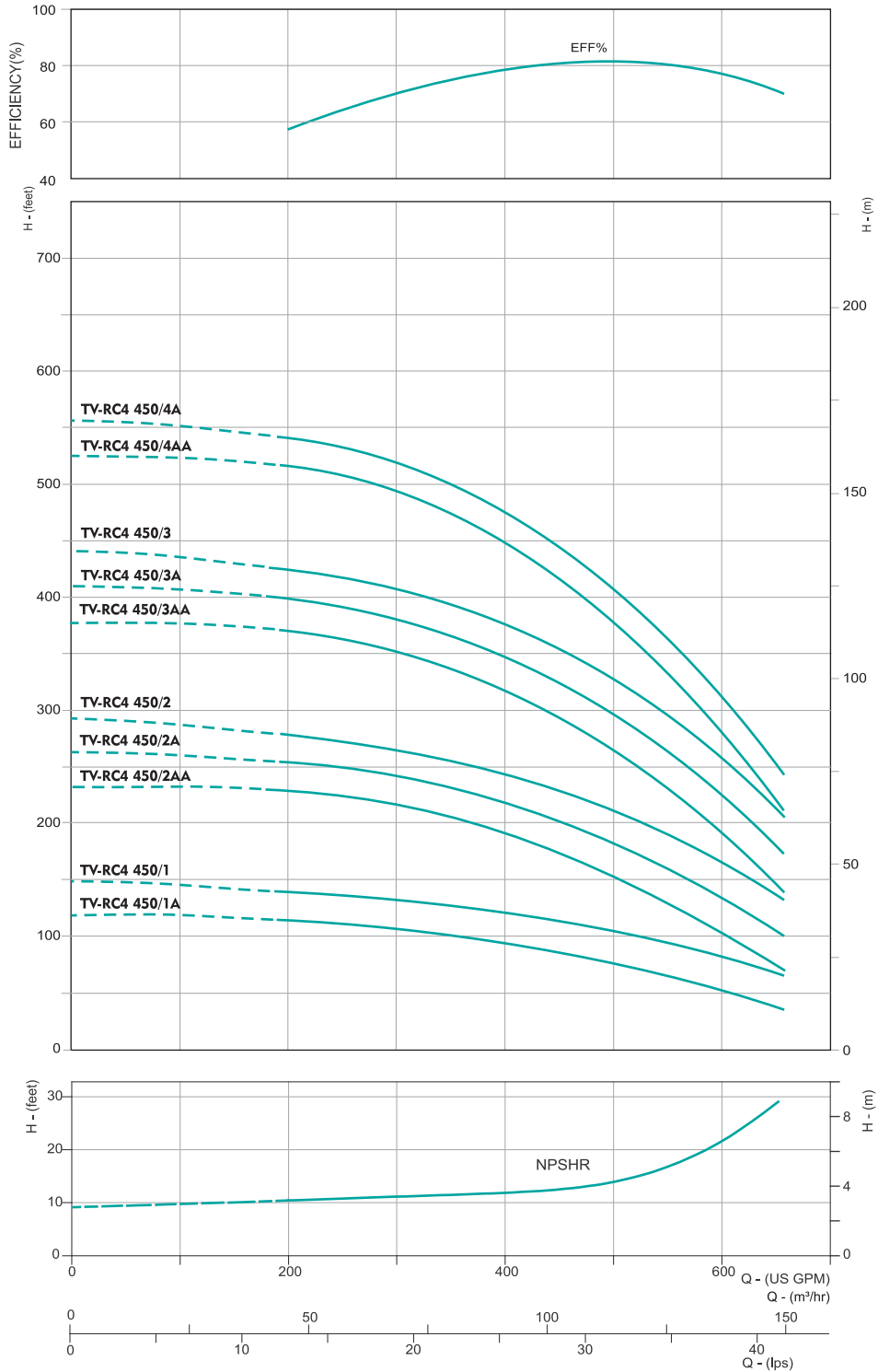
* For fully SS316 Version replace 'RC' with 'RN'

PERFORMANCE CURVES

Pipe Size : **TV-RC/RS/RN - 4" x 4"**

Nominal Flow : **450gpm (90m³/hr)**

3450 rpm



* Performance curve tolerance are as per HI: 14.6/ISO: 9906, GRADE 3B.

* The given performance is common to all types of materials of construction.

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

PERFORMANCE TABLE

Pipe Size : **TV-RC/RS/RN - 4" x 4"**

Nominal Flow : **450gpm (90m³/hr)**

3450 rpm

Power		Pump Model	m ³ /hr	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-RC4 450/01A	Total Manometric Head in Meter	36	35	32	29	26	23	21
15	20	TV-RC4 450/01		45	42	40	37	34	32	30
18.5	25	TV-RC4 450/02AA		71	69	66	58	53	47	43
22	30	TV-RC4 450/02A		80	77	73	66	61	56	52
30	40	TV-RC4 450/02		89	85	81	75	70	65	61
30	40	TV-RC4 450/03AA		115	113	108	97	89	80	75
37	50	TV-RC4 450/03A		125	121	116	106	99	91	84
37	50	TV-RC4 450/03		134	129	124	115	108	100	94
45	60	TV-RC4 450/04A		169	165	158	145	136	124	116
45	60	TV-RC4 450/04AA		160	157	150	137	127	116	108

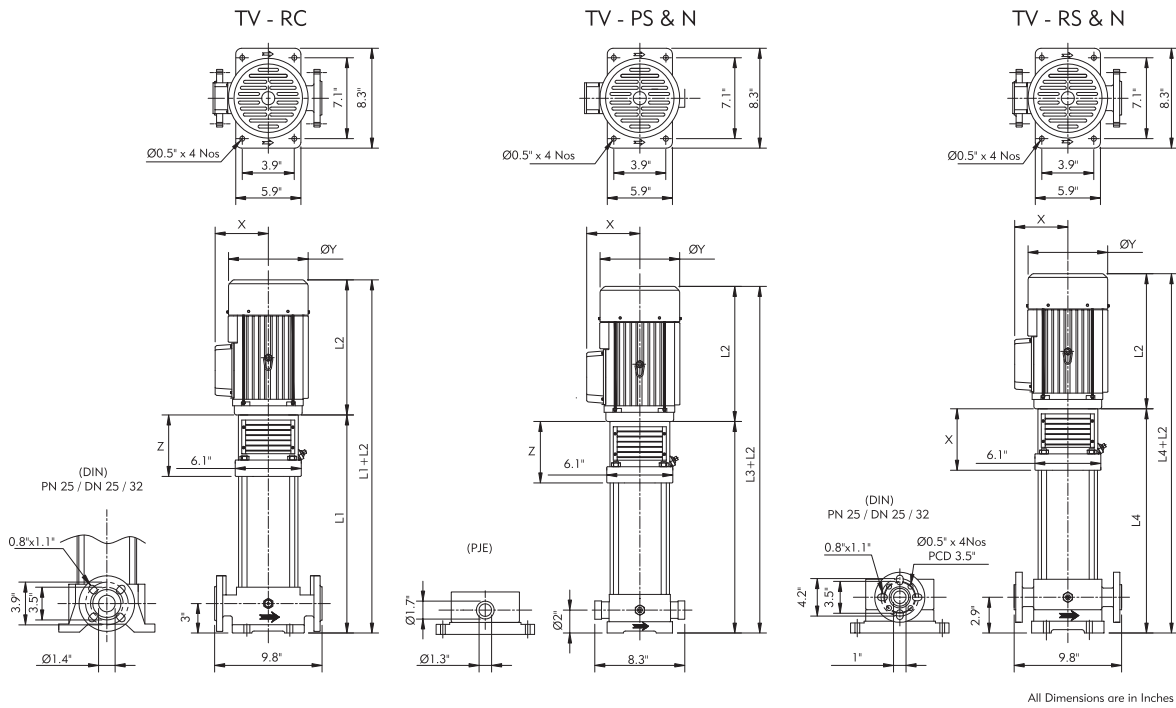
* The 5th digit of the model identification "4" denotes 4 phase DOL (380V) & which will be replaced with "1" for 1phase 220V; with "6" for 3 phase SD (380V); with "5" for multi voltage 220/380/440V.

* A / AA Denotes abridged version.

* For fully SS304 Version replace 'RC' with 'RS'

* For fully SS316 Version replace 'RC' with 'RN'

DIMENSION DRAWINGS & DATA



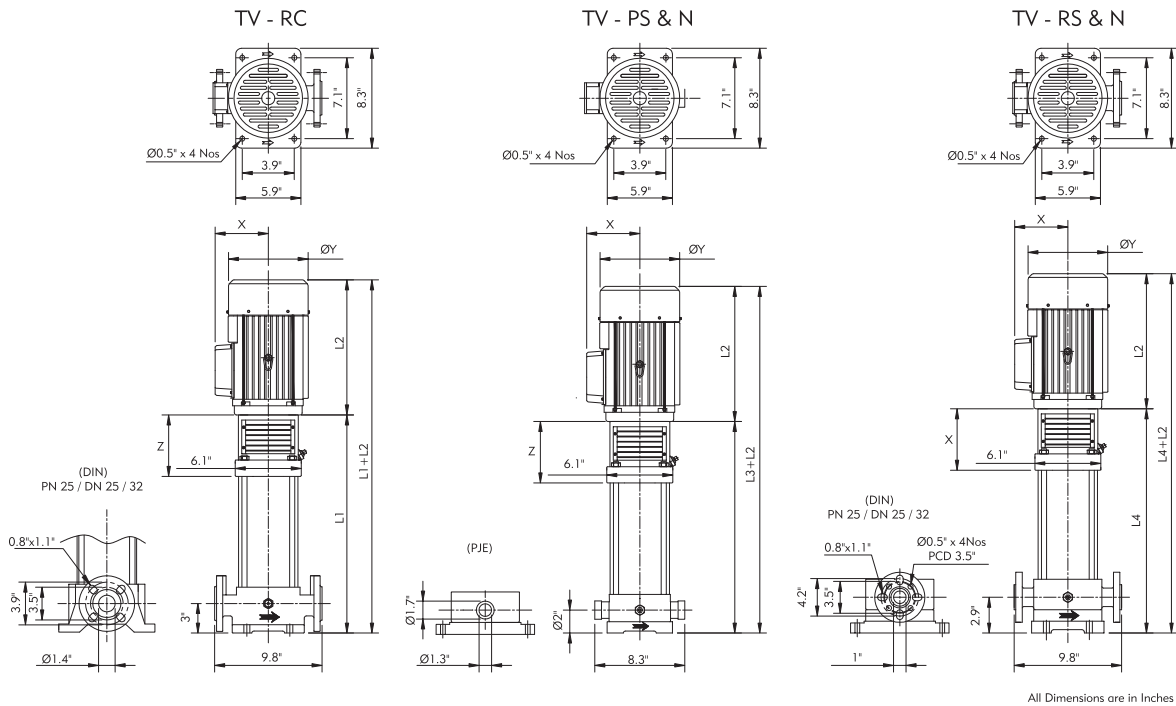
Pipe Size : **1" x 1" / 1¼" x 1¼"**

Nominal Flow : **5gpm**

Power		Pump Model	Approx. Dimensions (inch)								Approx. Weight (lbs)				
kW	HP		L1 TV RC	L2		L3 TV PS/N	L4 TV RS/N	X	Y (Ø)	Z	Pump			Motor	
				1Ph	3Ph						TV RC	TV PS/N	TV RS/N	1Ph	3Ph
0.37	0.5	TV-RC4 5/02	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-RC4 5/03	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-RC4 5/04	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-RC4 5/05	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-RC4 5/06	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-RC4 5/07	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-RC4 5/08	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-RC4 5/09	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-RC4 5/10	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-RC4 5/11	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-RC4 5/12	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-RC4 5/13	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-RC4 5/15	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-RC4 5/17	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-RC4 5/19	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-RC4 5/21	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-RC4 5/23	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-RC4 5/25	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-RC4 5/27	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 'P' for PJE connection.
 * For fully SS304 Version replace 'RC' with 'RS'
 * For fully SS316 Version replace 'RC' with 'RN'

DIMENSION DRAWINGS & DATA



Pipe Size : **1" x 1" / 1¼" x 1¼"**

Nominal Flow : **10gpm**

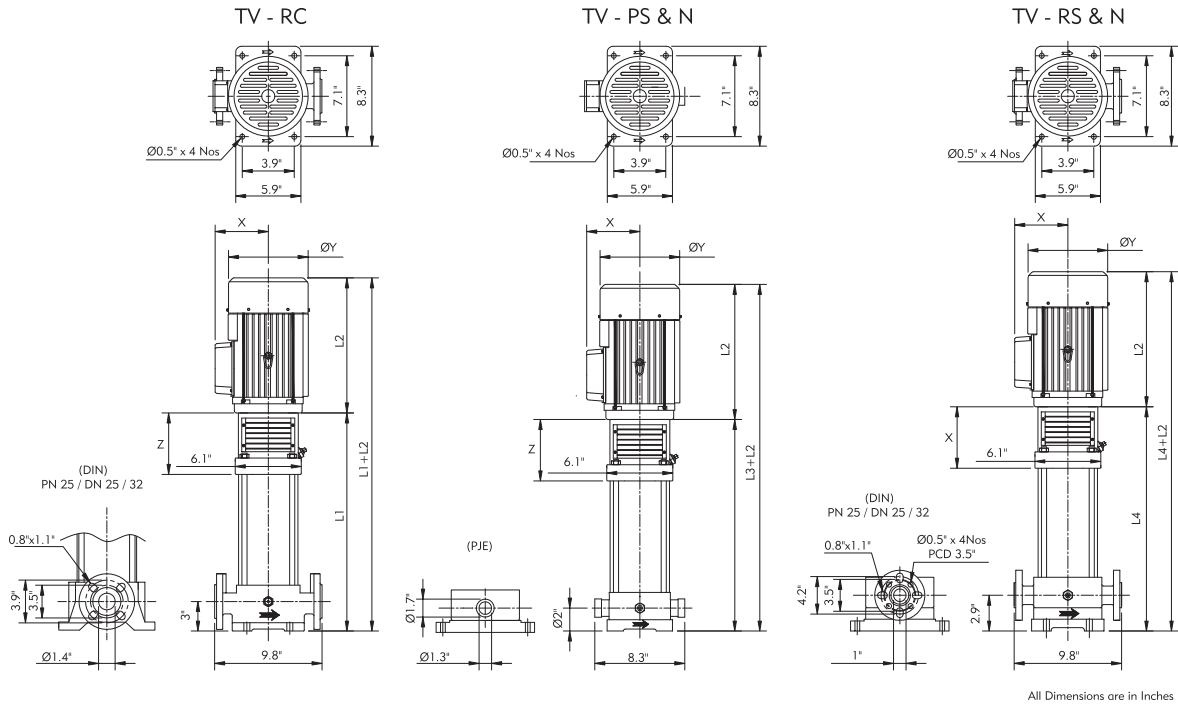
Power		Pump Model	Approx. Dimensions (inch)								Approx. Weight (lbs)				
kW	HP		L1 TV RC	L2		L3 TV PS/N	L4 TV RS/N	X	Y (Ø)	Z	Pump			Motor	
				1Ph	3Ph						TV RC	TV PS/N	TV RS/N	1Ph	3Ph
0.37	0.5	TV-RC4 10/02	10.6	8.7	8.5	9.8	10.7	4.4	5.5	5.7	41	29	33	20	18
0.55	0.75	TV-RC4 10/03	11.3	9.5	9.1	10.5	11.5	4.4	5.5	5.7	42	31	35	22	20
0.75	1.0	TV-RC4 10/04	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-RC4 10/05	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-RC4 10/06	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-RC4 10/07	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-RC4 10/08	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-RC4 10/09	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-RC4 10/10	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-RC4 10/11	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-RC4 10/12	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-RC4 10/13	19.1	-	12.6	19.0	20.0	5.4	7.4	6.4	59	48	51	-	53
3	4.0	TV-RC4 10/15	20.5	-	12.6	19.7	20.7	5.4	7.4	6.4	62	51	54	-	53
4	5.5	TV-RC4 10/18	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 'P' for PJE connection

* For fully SS304 Version replace 'RC' with 'RS'

* For fully SS316 Version replace 'RC' with 'RN'

DIMENSION DRAWINGS & DATA



Pipe Size : **1" x 1" / 1¼" x 1¼"**

Nominal Flow : **15gpm**

Power		Pump Model	Approx. Dimensions (inch)								Approx. Weight (lbs)				
kW	HP		L1 TV RC	L2		L3 TV PS/N	L4 TV RS/N	X	Y (Ø)	Z	Pump			Motor	
				1Ph	3Ph						TV RC	TV PS/N	TV RS/N	1Ph	3Ph
0.37	0.50	TV-RC4 15/02	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-RC4 15/03	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-RC4 15/04	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-RC4 15/05	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-RC4 15/06	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-RC4 15/07	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-RC4 15/08	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-RC4 15/09	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-RC4 15/10	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-RC4 15/11	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-RC4 15/12	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-RC4 15/13	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-RC4 15/15	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-RC4 15/17	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-RC4 15/19	23.3	-	12.6	22.6	23.5	5.4	7.4	6.4	64	53	56	-	53
3.0	4.0	TV-RC4 15/21	24.8	-	12.6	24.0	24.9	5.4	7.4	6.4	67	56	59	-	53
3.0	4.0	TV-RC4 15/23	26.2	-	12.6	25.4	26.3	5.4	7.4	6.4	70	58	62	-	53
3.0	4.0	TV-RC4 15/25	27.6	-	12.6	26.8	27.8	5.4	7.4	6.4	72	61	64	-	53

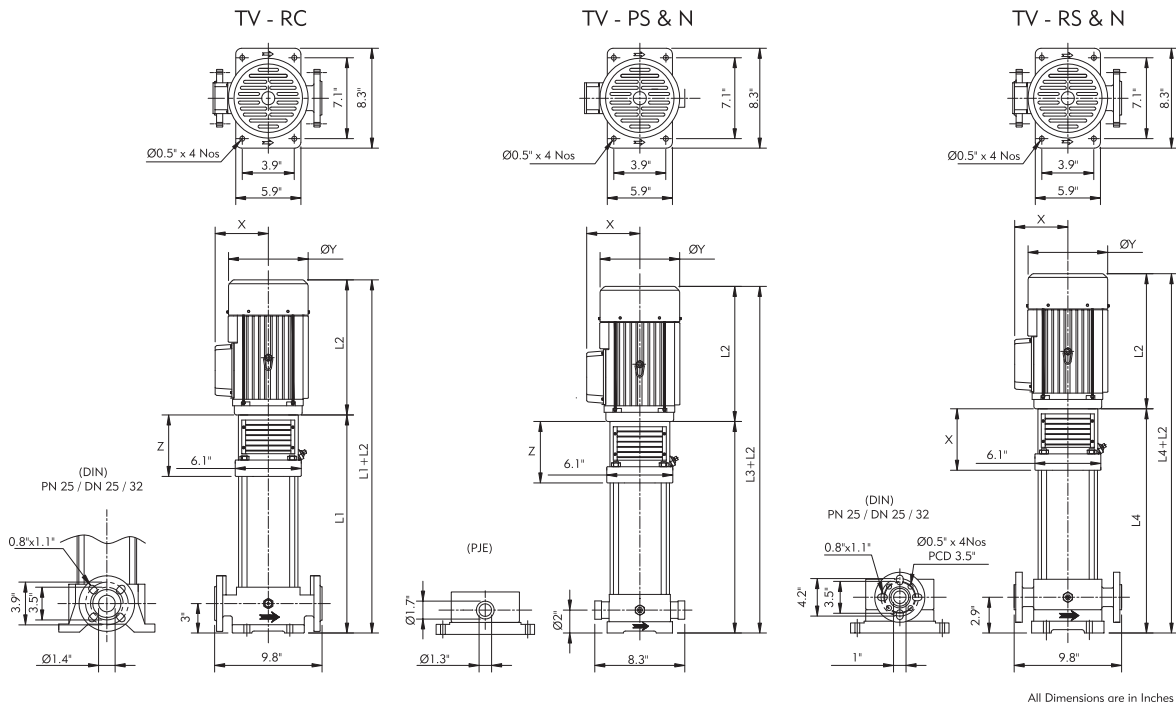
* The third digit of this pump model denotes types of connection. Letter 'R' stands for Round Flange and it will be replaced with 'P' for PJE connection

* For fully SS304 Version replace 'RC' with 'RS'

* For fully SS316 Version replace 'RC' with 'RN'

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 : **20gpm**

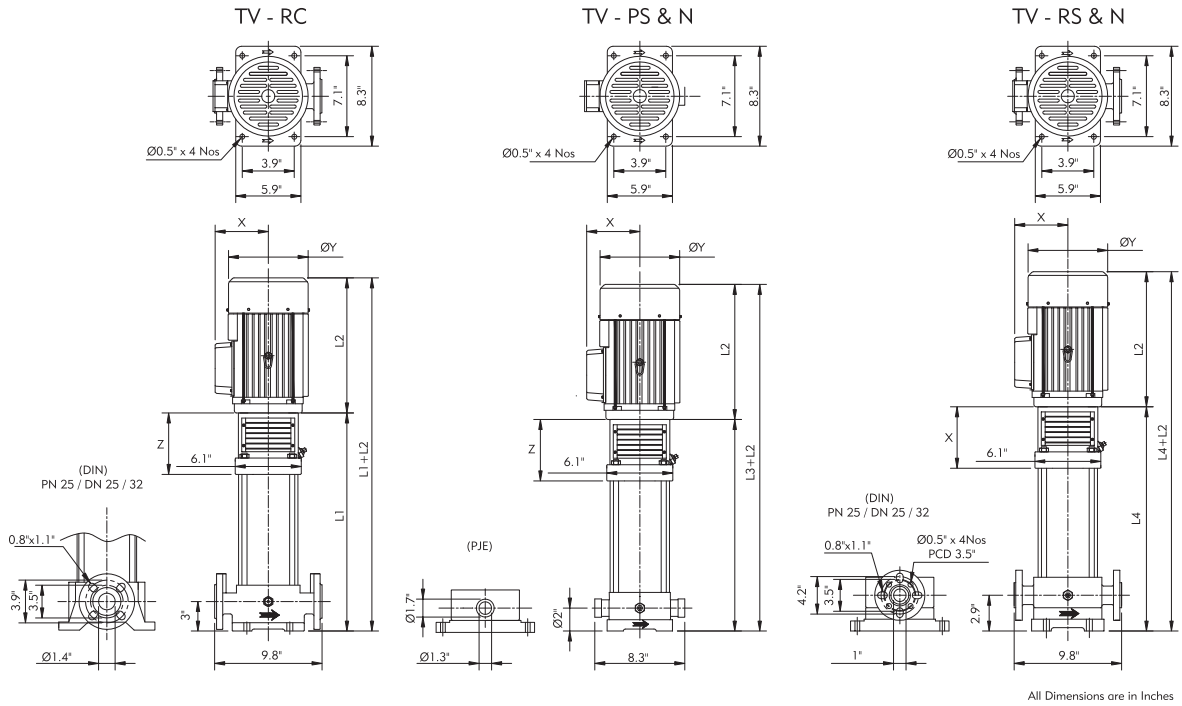
Power		Pump Model	Approx. Dimensions (inch)								Approx. Weight (lbs)				
kW	HP		L1 TV RC	L2		L3 TV PS/N	L4 TV RS/N	X	Y (Ø)	Z	Pump			Motor	
				1Ph	3Ph						TV RC	TV PS/N	TV RS/N	1Ph	3Ph
0.37	0.5	TV-RC4 20/01	11.3	8.7	8.5	10.5	11.5	4.4	5.5	5.7	48	37	40	20	18
0.75	1.0	TV-RC4 20/02	11.3	10.5	9.9	11.6	12.5	4.4	5.5	5.7	50	38	42	26	31
0.75	1.0	TV-RC4 20/03	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-RC4 20/04	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-RC4 20/05	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-RC4 20/06	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-RC4 20/07	17.3	-	12.6	17.6	18.5	5.4	7.4	6.4	59	47	51	-	47
3	4.0	TV-RC4 20/08	18.4	-	12.6	18.7	19.6	5.4	7.4	6.4	60	49	52	-	47
4	5.5	TV-RC4 20/10	20.5	-	13.9	20.8	21.7	5.4	7.4	6.4	63	52	55	-	61
4	5.5	TV-RC4 20/12	22.6	-	13.9	22.9	23.9	5.4	7.4	6.4	66	55	58	-	61
5.5	7.5	TV-RC4 20/14	24.8	-	15.2	25.0	26.0	8.0	8.0	7.8	72	60	64	-	91
5.5	7.5	TV-RC4 20/16	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 'P' for PJE connection

* For fully SS304 Version replace 'RC' with 'RS'

* For fully SS316 Version replace 'RC' with 'RN'

DIMENSION DRAWINGS & DATA



Pipe Size : **1" x 1" / 1¼" x 1¼"**

Nominal Flow : **25gpm**

Power		Pump Model	Approx. Dimensions (inch)								Approx. Weight (lbs)				
kW	HP		L1 TV RC	L2		L3 TV PS/N	L4 TV RS/N	X	Y (Ø)	Z	Pump			Motor	
				1Ph	3Ph						TV RC	TV PS/N	TV RS/N	1Ph	3Ph
0.55	0.75	TV-RC4 25/02	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-RC4 25/03	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-RC4 25/04	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-RC4 25/05	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-RC4 25/06	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-RC4 25/07	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-RC4 25/08	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-RC4 25/09	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-RC4 25/10	20.5	-	12.6	19.7	20.7	5.4	7.4	6.4	67	55	59	-	53
3.0	4.0	TV-RC4 25/11	21.6	-	12.6	20.8	21.7	5.4	7.4	6.4	69	57	61	-	53
3.0	4.0	TV-RC4 25/12	22.6	-	12.6	21.9	22.8	5.4	7.4	6.4	71	59	63	-	53
4.0	5.5	TV-RC4 25/13	23.7	-	13.4	22.9	23.9	5.4	7.4	6.4	72	61	65	-	61
4.0	5.5	TV-RC4 25/14	24.8	-	13.4	24.0	24.9	5.4	7.4	6.4	74	63	67	-	61
4.0	5.5	TV-RC4 25/15	25.8	-	13.4	25.0	26.0	5.4	7.4	6.4	76	65	69	-	61
4.0	5.5	TV-RC4 25/16	26.9	-	13.4	26.1	27.0	5.4	7.4	6.4	78	67	71	-	61
5.5	7.5	TV-RC4 25/18	29.0	-	15.2	28.2	29.2	8.0	10.1	7.8	85	73	77	-	91
5.5	7.5	TV-RC4 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-RC4 025/22	33.3	-	15.2	32.5	33.4	8.0	10.1	7.8	93	81	85	-	91
7.5	10	TV-RC4 025/24	35.4	-	16.7	34.6	35.6	8.0	10.1	7.8	96	85	89	-	105

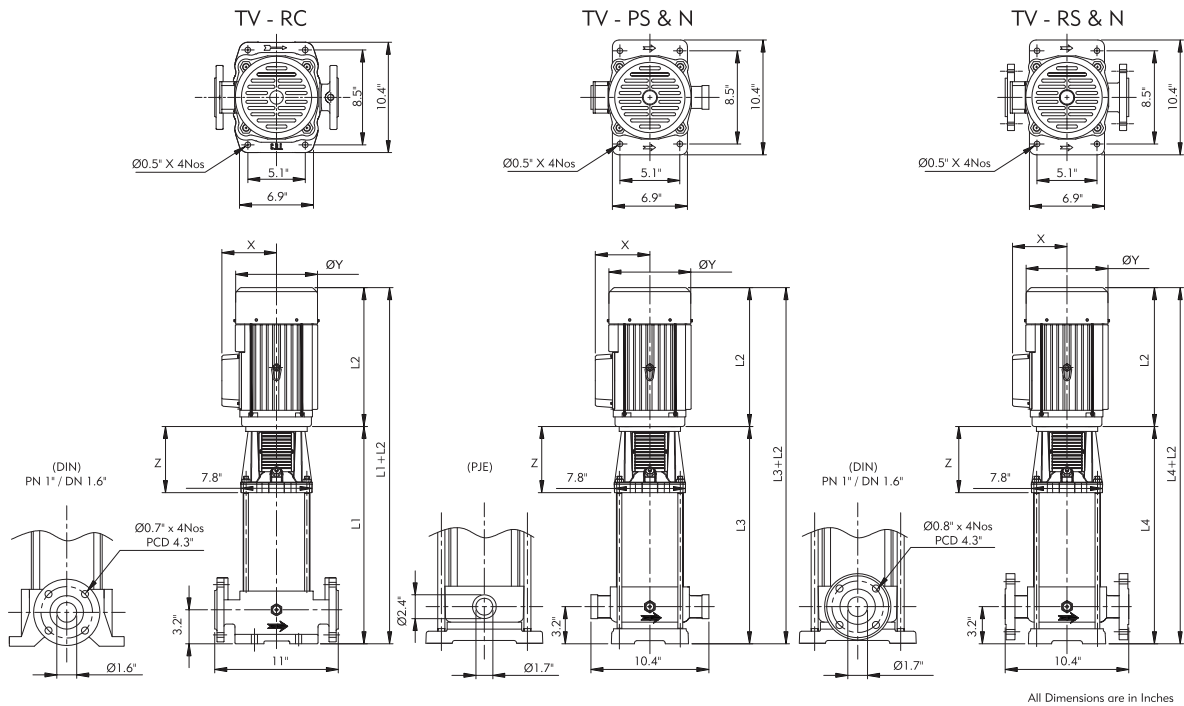
* The third digit of this pump model denotes types of connection. Letter 'R' stands for Round Flange and it will be replaced with 'P' for PJE connection.

* For fully SS304 Version replace 'RC' with 'RS'

* For fully SS316 Version replace 'RC' with 'RN'

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

DIMENSION DRAWINGS & DATA



Pipe Size : 1½" x 1½"

Nominal Flow : 50gpm

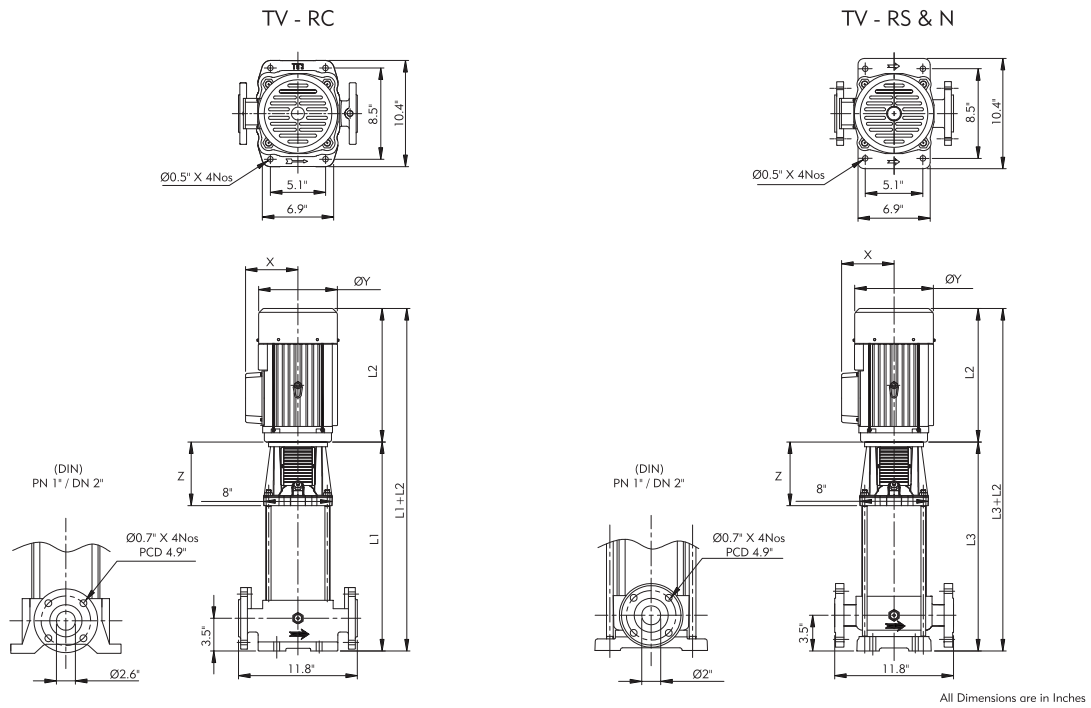
Power		Pump Model	Approx. Dimensions (inch)								Approx. Weight (lbs)				
kW	HP		L1 TV RC	L2		L3 TV PS/N	L4 TV RS/N	X	Y (Ø)	Z	Pump			Motor	
				1Ph	3Ph						TV RC	TV PS/N	TV RS/N	1Ph	3Ph
0.55	0.75	TV-RC4 50/01	12	9.4	9	12.1	12.1	4.3	5.4	6.7	71.5	60.5	62.7	24.2	22
1.1	1.5	TV-RC4 50/02	13.1	11	10.3	13.3	13.3	4.6	5.4	6.7	73.7	62.7	64.9	29.7	28.6
2.2	3.0	TV-RC4 50/03	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-RC4 50/04	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-RC4 50/05	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-RC4 50/06	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-RC4 50/07	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-RC4 50/08	21.8	-	13.6	22	22	7.9	10	8.4	91.3	80.5	82.5	-	107.8
5.5	7.5	TV-RC4 50/09	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-RC4 50/10	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-RC4 50/12	26.5	-	16.5	26.7	26.7	7.9	10	8.4	97.9	86.9	128.7	-	235.4
11	15	TV-RC4 50/14	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-RC4 50/16	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-RC4 50/17	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 'P' for PJE connection.

* For fully SS304 Version replace 'RC' with 'RS'

* For fully SS316 Version replace 'RC' with 'RN'

DIMENSION DRAWINGS & DATA



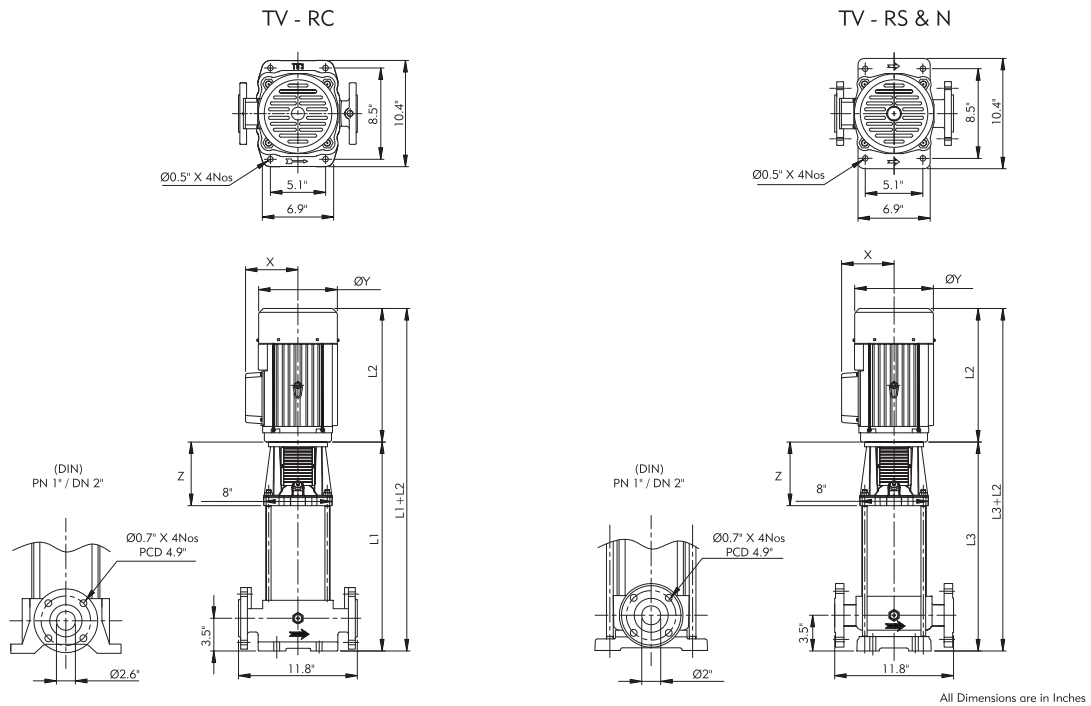
Pipe Size : **2" x 2"**

Nominal Flow : **75gpm**

Power		Pump Model	Approx. Dimensions (inch)							Approx. Weight (lbs)			
kW	HP		L1 TV RC	L2		L3 TV PS/N	X	Y (Ø)	Z	Pump		Motor	
				1Ph	3Ph					TV RC	TV RS/N	1Ph	3Ph
1.5	2.0	TV-RC4 75/01	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-RC4 75/02	15.8	-	13.6	15.6	6.3	7.2	7.2	85.8	74.8	-	60.5
5.5	7.5	TV-RC4 75/03	18.7	-	15	18.5	7.9	10	8.4	92.4	81.4	-	107.8
5.5	7.5	TV-RC4 75/04	20.5	-	15	20.3	7.9	10	8.4	94.6	83.6	-	107.8
7.5	10	TV-RC4 75/05	22.2	-	16.5	22	7.9	10	8.4	96.8	85.8	-	111.1
11	15	TV-RC4 75/06	27.4	-	19.5	27.3	10.1	12.2	11.8	138.6	127.6	-	235.4
11	15	TV-RC4 75/07	29.2	-	19.5	29	10.1	12.2	11.8	140.8	129.8	-	235.4
11	15	TV-RC4 75/08	31	-	19.5	30.8	10.1	12.2	11.8	143	132	-	235.4
15	20	TV-RC4 75/09	32.7	-	19.5	32.5	10.1	12.2	11.8	145.2	134	-	257.4
15	20	TV-RC4 75/10	34.5	-	19.5	34.3	10.1	12.2	11.8	147.4	136.4	-	257.4
18.5	25	TV-RC4 75/12	38	-	21.2	37.8	10.1	12.2	11.8	151.8	140.8	-	294.8

* For fully SS304 Version replace 'RC' with 'RS'
 * For fully SS316 Version replace 'RC' with 'RN'

DIMENSION DRAWINGS & DATA



All Dimensions are in Inches

Pipe Size : **2" x 2"**

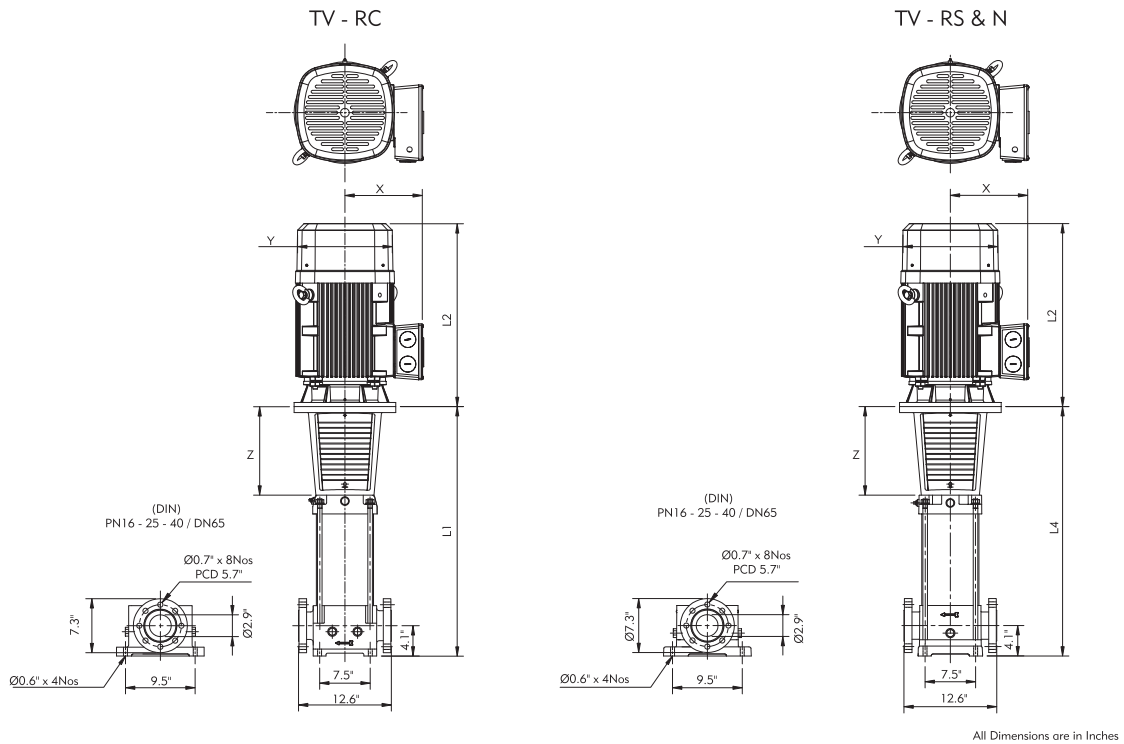
Nominal Flow : **100gpm**

Power		Pump Model	Approx. Dimensions (inch)							Approx. Weight (lbs)			
kW	HP		L1 TV RC	L2		L3 TV PS/N	X	Y (Ø)	Z	Pump		Motor	
				1Ph	3Ph					TV RC	TV RS/N	1Ph	3Ph
2.2	3.0	TV-RC4 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-RC4 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-RC4 100/03	18.7	-	15	18.5	7.9	10	8.4	92.4	81.4	-	107.8
7.5	10	TV-RC4 100/04	20.5	-	16.5	20.3	10.1	10	8.4	94.6	83.6	-	111.1
11	15	TV-RC4 100/05	25.7	-	19.5	25.5	10.1	12.2	11.8	136.4	125.4	-	235.4
11	15	TV-RC4 100/06	27.4	-	19.5	27.3	10.1	12.2	11.8	138.6	127.6	-	235.4
15	20	TV-RC4 100/07	29.2	-	19.5	29	10.1	12.2	11.8	140.8	129.8	-	257.4
15	20	TV-RC4 100/08	31	-	19.5	30.8	10.1	12.2	11.8	143	132	-	257.4
18.5	25	TV-RC4 100/10	34.5	-	21.2	34.3	10.1	12.2	11.8	147.4	136.4	-	294.8

* For fully SS304 Version replace 'RC' with 'RS'

* For fully SS316 Version replace 'RC' with 'RN'

DIMENSION DRAWINGS & DATA



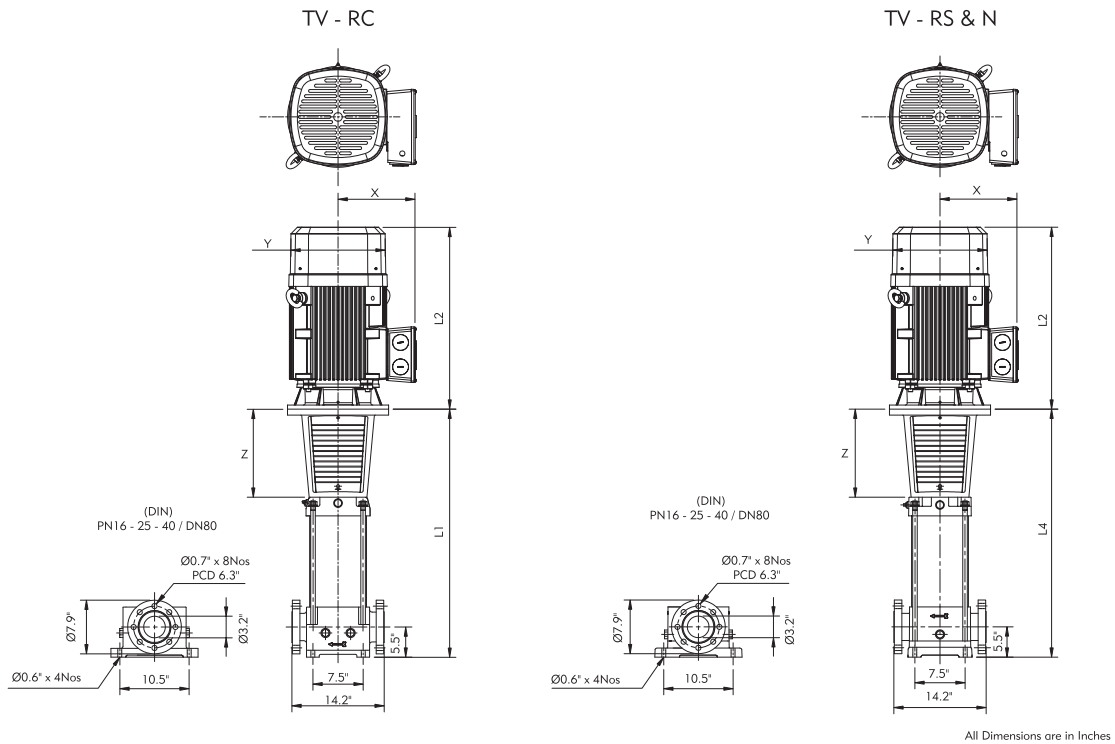
Pipe Size : **2½" x 2½"**

Nominal Flow : **160gpm**

Power		Pump Model	Approx. Dimensions (inch)						Approx. Weight (lbs)			
kW	HP		L1 & L4 TV RC TV RS/N	L2		X	Y (Ø)	Z	Pump		Motor	
				1Ph	3Ph				TV RC	TV RS/N	1Ph	3Ph
2.2	3	TV-RC4 160/01A	20.1	11.6	11.6	5.4	7.4	7.9	129	140	53	44
4	5.5	TV-RC4 160/01	20.1	-	13.9	5.4	7.4	7.9	129	140	-	61
5	7.5	TV-RC4 160/02AA	22.8	-	15.2	8.0	10.1	7.9	135	146	-	91
5	7.5	TV-RC4 160/02A	22.8	-	15.2	8.0	10.1	7.9	135	146	-	91
5	7.5	TV-RC4 160/02	22.8	-	15.2	8.0	10.1	7.9	135	146	-	91
7.5	10	TV-RC4 160/03AA	25.6	-	16.7	8.0	10.1	7.9	140	151	-	105
11	15	TV-RC4 160/03	25.6	-	19.5	8.8	12.3	12.0	168	179	-	268
11	15	TV-RC4 160/04A	28.3	-	19.5	8.8	12.3	12.0	175	186	-	268
11	15	TV-RC4 160/04	28.3	-	19.5	8.8	12.3	12.0	175	186	-	268
15	20	TV-RC4 160/05AA	35.2	-	19.5	8.8	12.3	12.0	182	193	-	288
15	20	TV-RC4 160/05	35.2	-	19.5	8.8	12.3	12.0	182	193	-	288
18.5	25	TV-RC4 160/06AA	38.0	-	19.5	8.8	12.3	12.0	188	199	-	332
18.5	25	TV-RC4 160/06	38.0	-	19.5	8.8	12.3	12.0	188	199	-	332
18.5	25	TV-RC4 160/07AA	40.7	-	19.5	8.8	12.3	12.0	195	206	-	332
22	30	TV-RC4 160/07	40.7	-	24.8	10.7	13.4	12.0	195	206	-	396
22	30	TV-RC4 160/08AA	43.5	-	24.8	10.7	13.4	12.0	201	206	-	396
22	30	TV-RC4 160/08	43.5	-	24.8	10.7	13.4	12.0	201	212	-	396
30	40	TV-RC4 160/09AA	46.3	-	24.8	10.7	13.4	12.0	208	219	-	532
30	40	TV-RC4 160/09	46.3	-	24.8	10.7	13.4	12.0	208	219	-	532
30	40	TV-RC4 160/10AA	49.0	-	24.8	10.7	13.4	12.0	215	226	-	532
30	40	TV-RC4 160/10	49.0	-	24.8	10.7	13.4	12.0	215	226	-	532
30	40	TV-RC4 160/11AA	51.9	-	24.8	10.7	13.4	12.0	221	232	-	532

* For fully SS304 Version replace 'RC' with 'RS'
 * For fully SS316 Version replace 'RC' with 'RN'

DIMENSION DRAWINGS & DATA



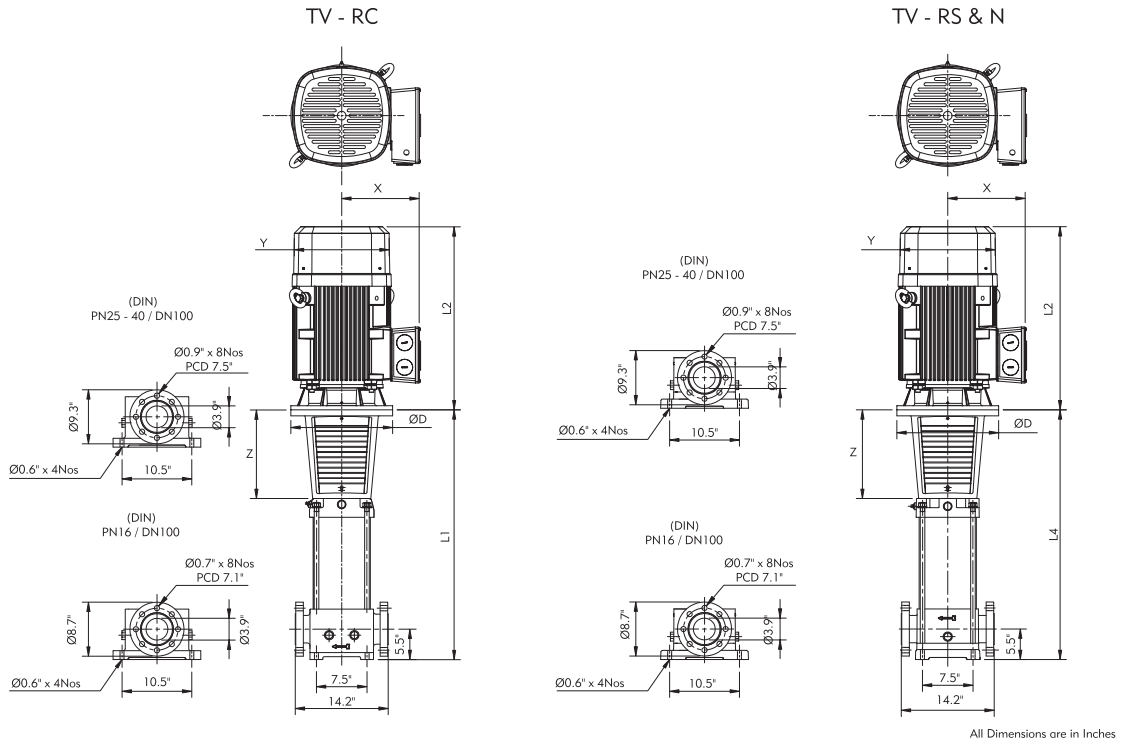
Pipe Size : **3 1/4" x 3 1/4"**

Nominal Flow : **220gpm**

Power		Pump Model	Approx. Dimensions (inch)					Approx. Weight (lbs)		
kW	HP		L1 & L4 TV RC TV RS/N	L2 3Ph	X	Y (Ø)	Z	Pump		Motor
								TV RC	TV RS/N	3Ph
5.5	7.5	TV-RC4 220/01A	22.2	15.2	8.0	10.1	7.9	67	64	41.3
5.5	7.5	TV-RC4 220/01	22.2	15.2	8.0	10.1	7.9	67	64	41.3
11	15	TV-RC4 220/02B	25.4	19.5	8.8	12.3	12.0	84	81	122
11	15	TV-RC4 220/02A	25.4	19.5	8.8	12.3	12.0	84	81	122
11	15	TV-RC4 220/02	25.4	19.5	8.8	12.3	12.0	84	81	122
15	20	TV-RC4 220/03B	32.6	19.5	8.8	12.3	12.0	89	86	131
18.5	25	TV-RC4 220/03A	32.6	19.5	8.8	12.3	12.0	89	86	151
18.5	25	TV-RC4 220/03	32.6	19.5	8.8	12.3	12.0	89	86	151
22	30	TV-RC4 220/04B	35.7	24.8	10.7	13.4	12.0	93	90	180
22	30	TV-RC4 220/04A	35.7	24.8	10.7	13.4	12.0	93	90	180
22	30	TV-RC4 220/04	35.7	24.8	10.7	13.4	12.0	93	90	180
30	40	TV-RC4 220/05B	38.9	24.8	10.7	13.4	12.0	97	94	242
30	40	TV-RC4 220/05A	38.9	24.8	10.7	13.4	12.0	97	94	242
30	40	TV-RC4 220/05	38.9	24.8	10.7	13.4	12.0	97	94	242
37	50	TV-RC4 220/06B	42.0	25.6	10.9	15.6	12.0	104	101	258
37	50	TV-RC4 220/06	42.0	25.6	10.9	15.6	12.0	104	101	258
37	50	TV-RC4 220/07B	45.2	25.6	10.9	15.6	12.0	109	106	258
45	60	TV-RC4 220/07	45.2	27.4	11.7	17.1	12.0	109	106	320
45	60	TV-RC4 220/08A	48.3	27.4	11.7	17.1	12.0	113	110	320

* For fully SS304 Version replace 'RC' with 'RS'
 * For fully SS316 Version replace 'RC' with 'RN'

DIMENSION DRAWINGS & DATA



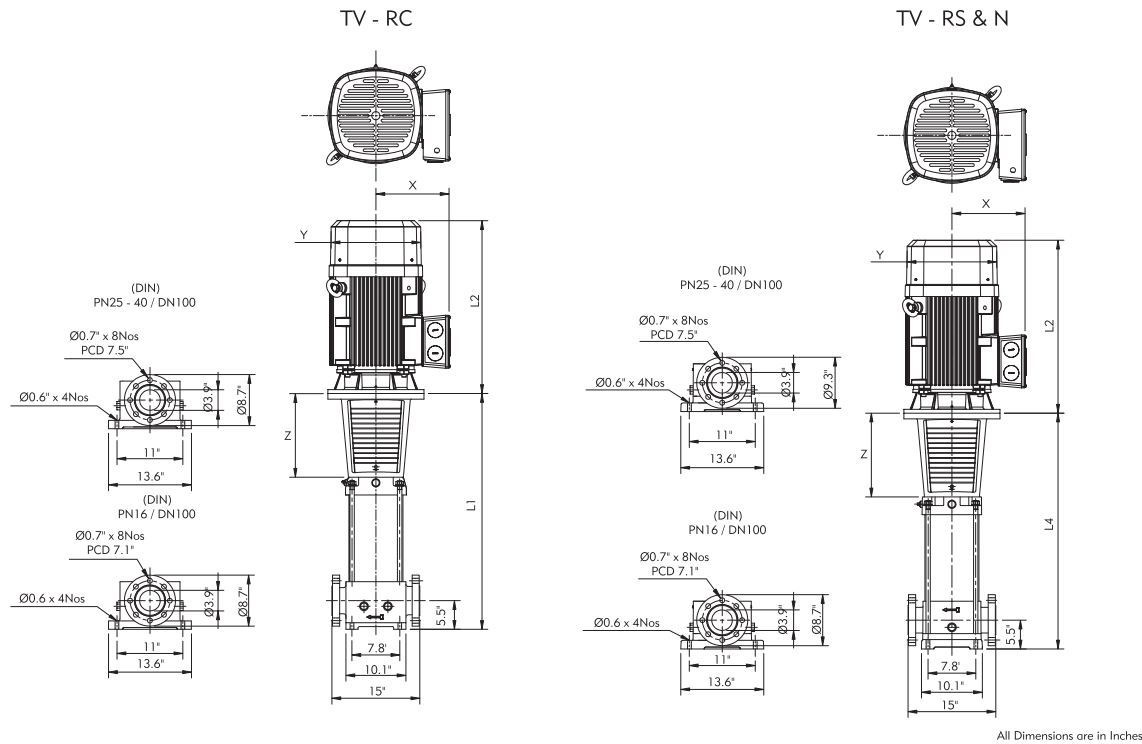
Pipe Size : **4" x 4"**

Nominal Flow : **330gpm**

Power		Pump Model	Approx. Dimensions (inch)					Approx. Weight (lbs)		
kW	HP		L1 & L4 TV RC TV RS/N	L2	X	Y (Ø)	Z	Pump		Motor
				3Ph				TV RC	TV RS/N	3Ph
7.5	10	TV-RC4 330/01A	22.2	16.7	8.0	10.1	7.9	215	177	91
11	15	TV-RC4 330/01	22.2	19.5	8.8	12.3	12.0	215	208	268
15	20	TV-RC4 330/02AA	25.4	19.5	8.8	12.3	12.0	221	215	288
18.5	25	TV-RC4 330/02A	25.4	19.5	8.8	12.3	12.0	221	215	332
22	30	TV-RC4 330/02	25.4	24.8	10.7	13.4	12.0	221	215	396
22	30	TV-RC4 330/03AA	32.6	24.8	10.7	13.4	12.0	230	223	396
30	40	TV-RC4 330/03A	32.6	24.8	10.7	13.4	12.0	230	223	532
30	40	TV-RC4 330/03	32.6	24.8	10.7	13.4	12.0	230	223	532
37	50	TV-RC4 330/04AA	35.7	24.8	10.7	13.4	12.0	245	239	568
37	50	TV-RC4 330/04A	35.7	25.6	10.9	15.6	12.0	245	239	568
45	60	TV-RC4 330/04	35.7	25.6	10.9	15.6	12.0	245	239	704
45	60	TV-RC4 330/05AA	38.9	27.4	10.9	17.1	12.0	254	248	704

* For fully SS304 Version replace 'RC' with 'RS'
 * For fully SS316 Version replace 'RC' with 'RN'

DIMENSION DRAWINGS & DATA



Pipe Size : **4" x 4"**

Nominal Flow : **450gpm**

Power		Pump Model	Approx. Dimensions (inch)					Approx. Weight (lbs)		
kW	HP		L1 & L4 TV RC TV RS/N	L2 3Ph	X	Y (Ø)	Z	Pump		Motor
								TV RC	TV RS/N	3Ph
11	15	TV-RC4 450/01A	22.5	19.5	8.8	12.3	12.0	94	92	122
15	20	TV-RC4 450/01	22.5	19.5	8.8	12.3	12.0	94	92	131
18.5	25	TV-RC4 450/02AA	30.2	19.5	8.8	12.3	12.0	102	100	151
22	30	TV-RC4 450/02A	30.2	24.8	10.7	13.4	12.0	102	100	180
30	40	TV-RC4 450/02	30.2	24.8	10.7	13.4	12.0	102	100	242
30	40	TV-RC4 450/03AA	33.9	24.8	10.7	13.4	12.0	113	111	242
37	50	TV-RC4 450/03A	33.9	25.6	10.9	15.6	12.0	113	111	258
37	50	TV-RC4 450/03	33.9	25.6	10.9	15.6	12.0	113	111	258
45	60	TV-RC4 450/04AA	37.5	27.4	11.7	17.1	12.0	121	119	320
45	60	TV-RC4 450/04A	37.5	27.4	11.7	17.1	12.0	121	119	320

* For fully SS304 Version replace 'RC' with 'RS'
 * For fully SS316 Version replace 'RC' with 'RN'

CONVERSION CHART

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	Milli litre 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 ⁻⁶	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 (SS 304, SS 316 & SS 904L), Submersible Motors (CI, SS 304, SS 316 & SS 904L - HT on optional), Starters & Control Panels, Centrifugal Monoblock Pumps, End Suction Pumps, Close Coupled Pumps, Horizontal Split Case Pumps, Horizontal & Vertical Multistage Pumps, Inline Booster Systems, Sewage, Drainage & Dewatering Pumps, Induction Motors, Submersible Cables, Riser Pipes and Column Pipes.

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.

Naargo Industries Private Limited,

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