



YOKING PUMP INDUSTRY CO.,LTD.



FLOWS OF POWER CYCLES OF LIFE

ISO9001:2015
International
Quality Management System
Certification

TD

Single-Stage Pipeline Circulation Pump

50Hz



FLOWS OF POWER CYCLES OF LIFE

YOKING PUMP INDUSTRY CO.,LTD.

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YOKING PUMP INDUSTRY CO.,LTD.

High-Quality Industrial Pumps Manufacturer



HIGH-QUALITY INDUSTRIAL PUMPS MANUFACTURER

YOKING PUMP INDUSTRY CO., LTD is a professional manufacturer of high quality industrial pumps, with the business purpose of "Quality As The Basis, Sales For Development" and the value of "Technology First, Beyond Self". We use super high casting technology, high quality parts to create the best quality products. In order to better meet customer demand and business expansion needs, We are looking for agents and cooperative partner from all over the world. Our quality and production of products improved year by year, YOKING has entered a period of rapid development, but we will work harder, constantly improve the product framework, innovative technology, will be more excellent products and perfect service for the majority of customers.



TD

Single-Stage Pipeline Circulation Pump



Private House



Civil use



Industrial use



Single Stage Pipeline Circulation Pump

Product Overview

TD Series Single-Stage Pipeline Circulation Pump, equipped with standard motor and mechanical seal, the structure of TD is less likely to be affected by impurities in the pump liquid than similar products. This series is designed in a pull-out top disassembly form, which allows the pump to be repaired without affecting the piping system. TD32-TD150 caliber products are of extended shaft structure, and TD200-TD300 caliber products are of disassembled structure, and the disassembled structure adopts integrated mechanical seal, so there is no need to disassemble the motor when replacing the mechanical seal.

Application

TD pump is a multi-purpose product, which can convey different media from tap water to industrial liquid, mainly used as liquid conveying, pressurizing and circulating equipment. For example: district heating system (the water quality in the heating system should meet the recognized water quality standard of the system) HVAC system, cooling system, domestic hot water system, industrial liquid conveying, water supply system.

Motor

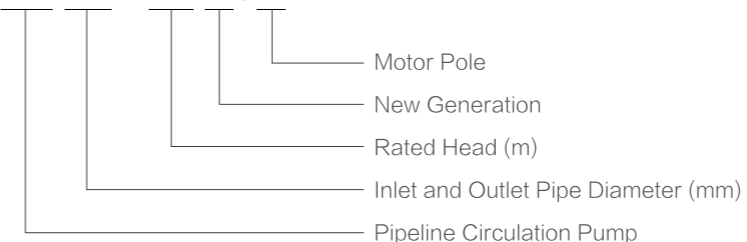
- Motor is a fully enclosed, air-cooled two or four pole standard motor.
- Protection Class : IP55
- Insulation Class: F
- Voltage : 50Hz: 1 × 220-230/240V
3 × 200-220/346-380V
3 × 220-240/380-415V

Operating Conditions

- TD pump is suitable for conveying thin, clean, non-erosive, non-flammable and non-explosive, and does not contain solid particles, fibers or liquids with physical and chemical properties similar to water. In the case of viscous or dense liquids, the pump characteristic curve will be reduced and energy consumption will be increased.
- Max. working pressure: 12 bar for conventional models, 16 bar for special models
- Liquid Temperature: -15°C to 110°C
- Ambient Temperature: up to +40°C
- Altitude: up to 1000m
- Rotation Direction: Clockwise (looking down from motor blade end)

Model Implication

TD 50 - 24 G / 2



Minimum Inlet Pressure – NPSH

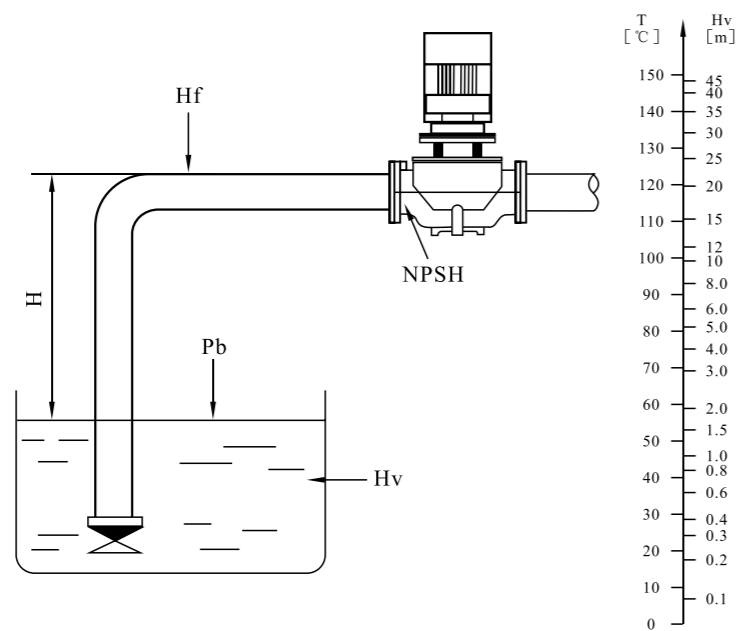
To avoid cavitation, it is necessary to ensure a minimum pressure on the inlet side of the pump. The maximum suction height "H" can be calculated as follows:

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

- **H** is maximum suction head (m)
- **P_b** is atmospheric pressure in bar
(Can be set to 1bar, in closed system, P_b is system pressure)
- **NPSH** is the net positive suction head of the pump in m; the corresponding value at maximum flow can be read in the graph
- **H_f** is the suction line resistance loss in m (at the maximum flow of the pump)
- **H_v** is the vaporization pressure in m
(can be read from the vaporization pressure gauge. Its value depends on the liquid temperature "tm")
- **H_s** is the minimum safety margin of 0.5m
- If the calculated "H" is positive, the pump can operate at a maximum suction height of "H"
- If the calculated "H" is negative, the pump requires a minimum "H" inlet pressure

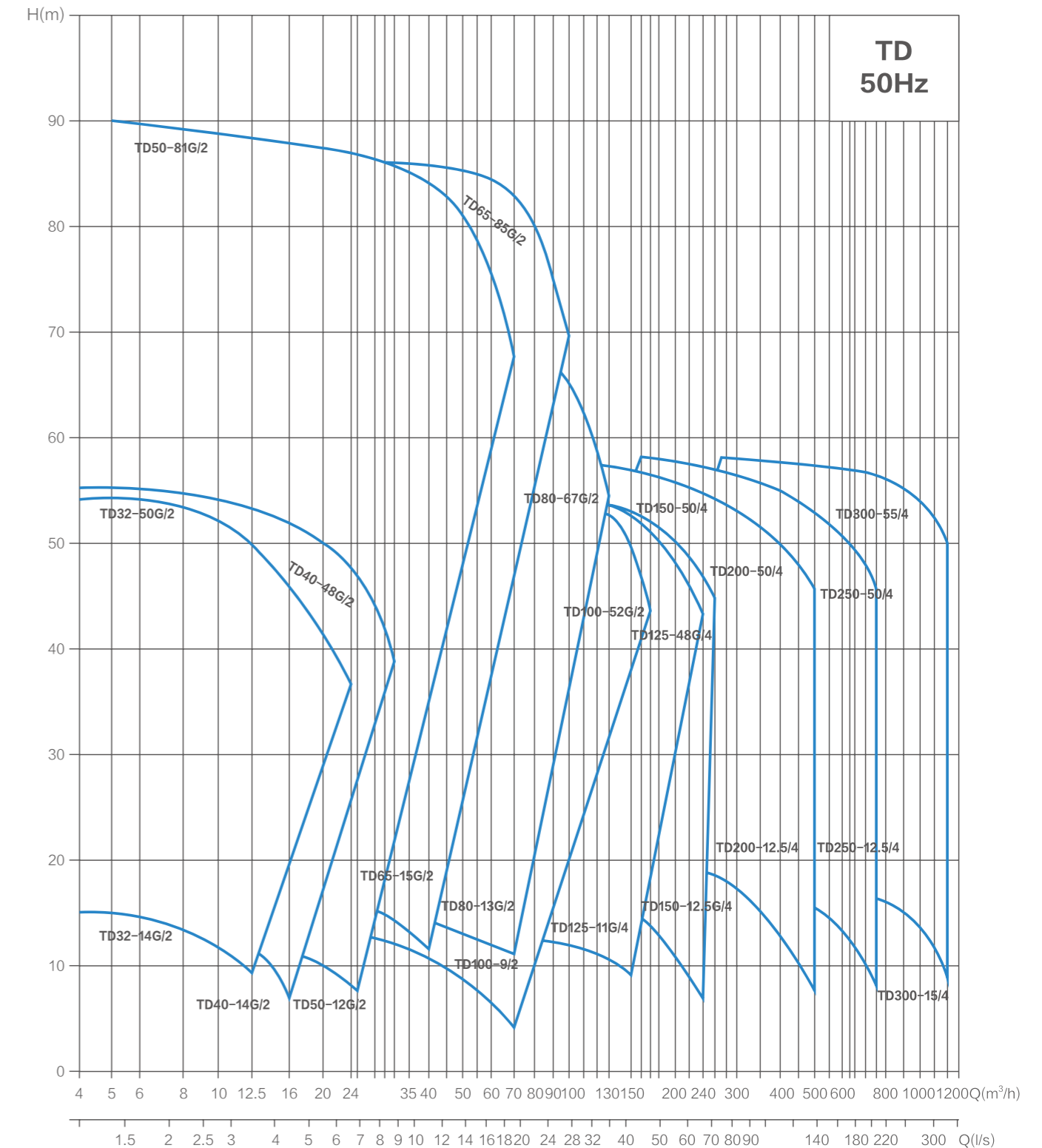
It is recommended to calculate the inlet pressure "H" when the following conditions exist:

- High liquid temperature
- The flow is significantly greater than the rated flow
- Pump water from low
- Pumping water from long pipes
- Poor import conditions

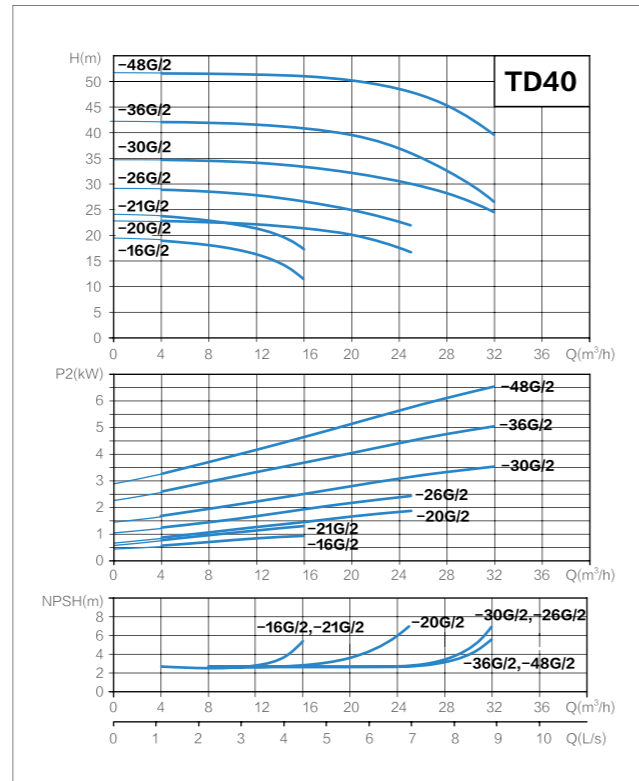
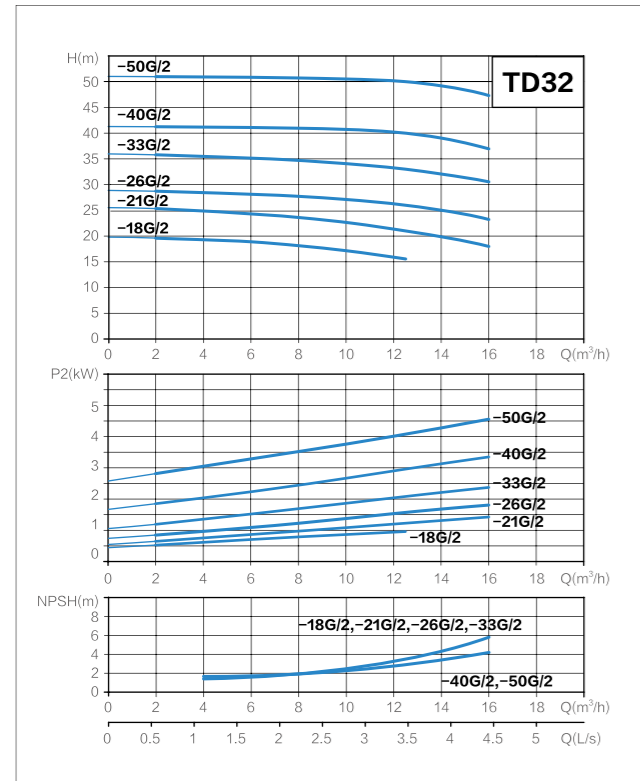


NOTE: To avoid cavitation, the pump should be rated away from the right side of the NPSH curve. Always check the NPSH value of the pump at the highest possible flow.

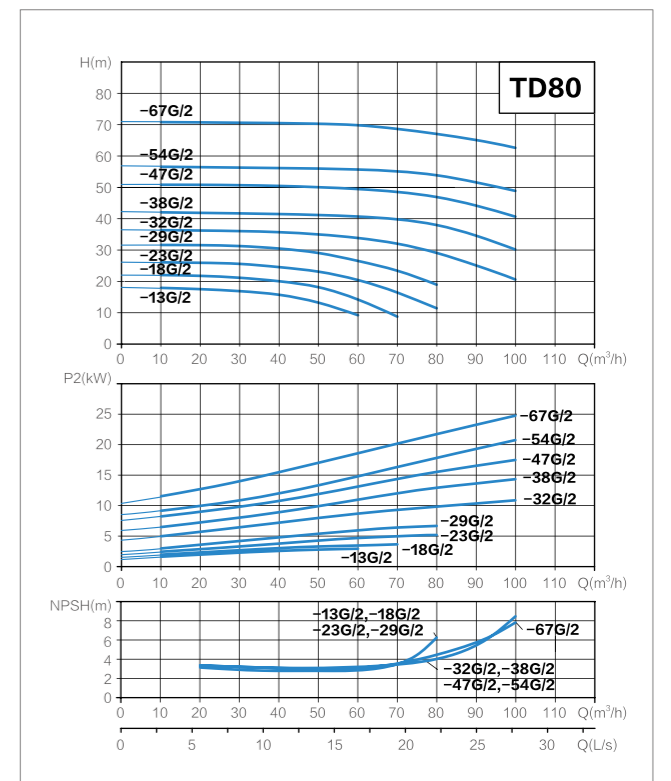
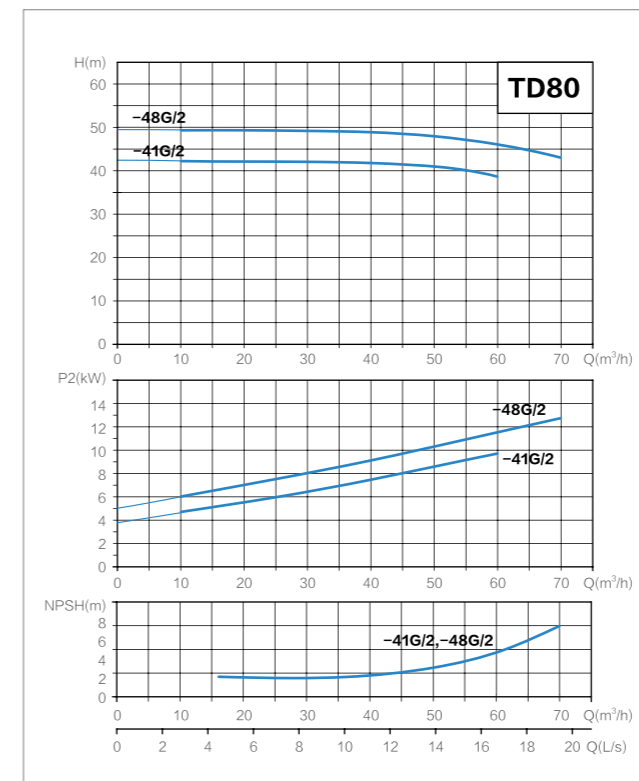
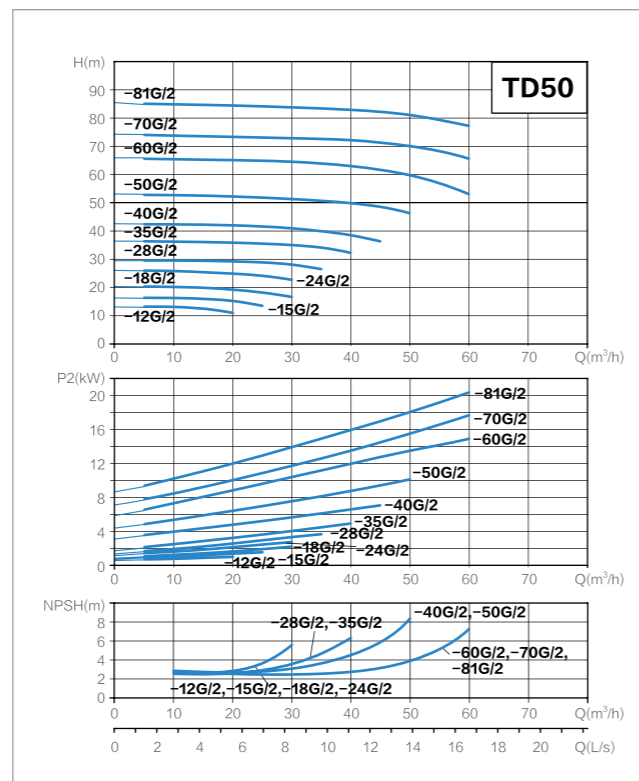
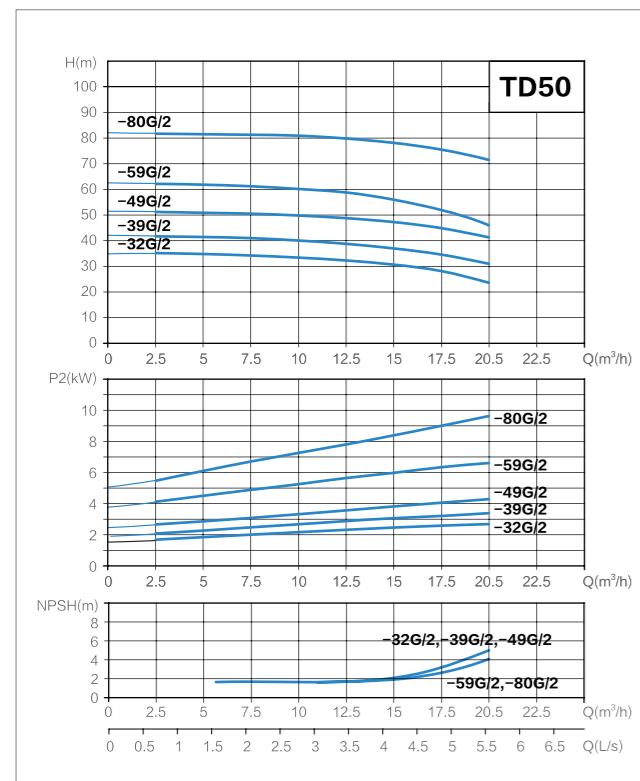
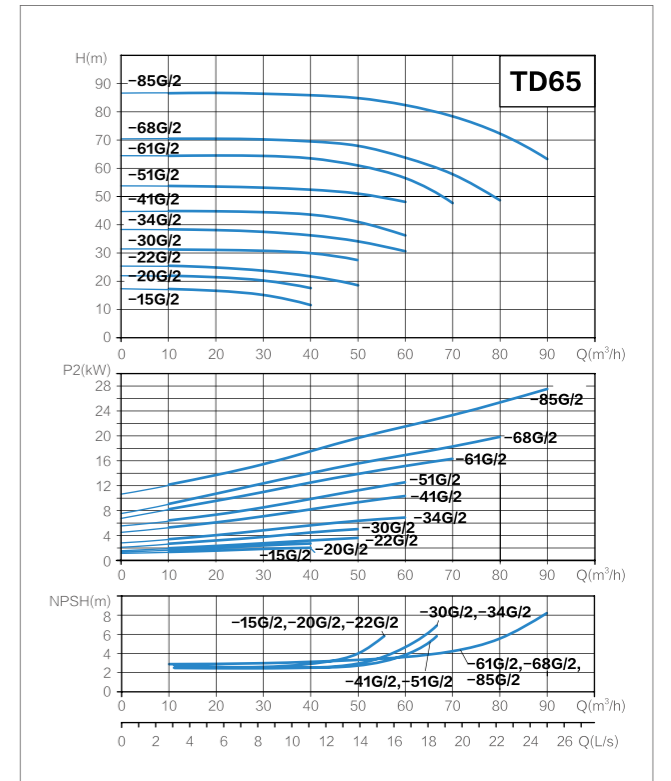
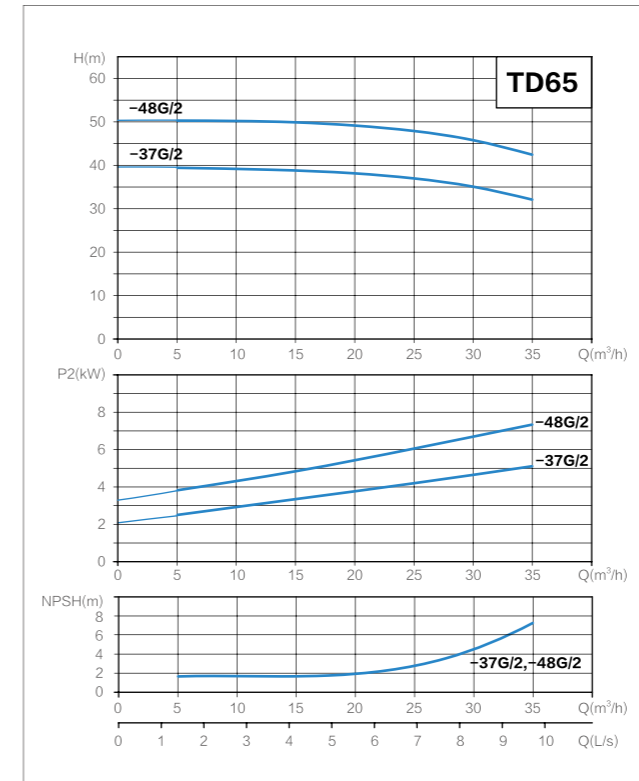
Scope of Performance



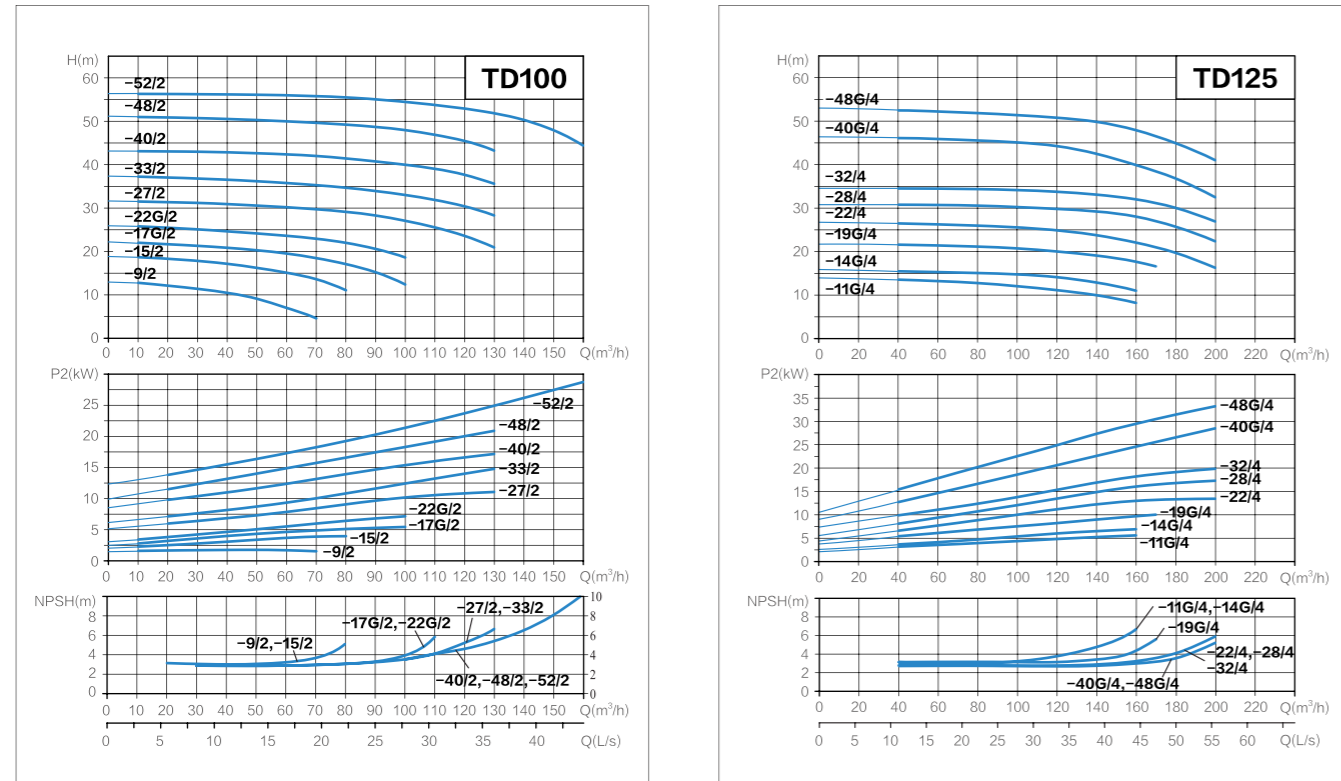
Hydraulic Performance Curves



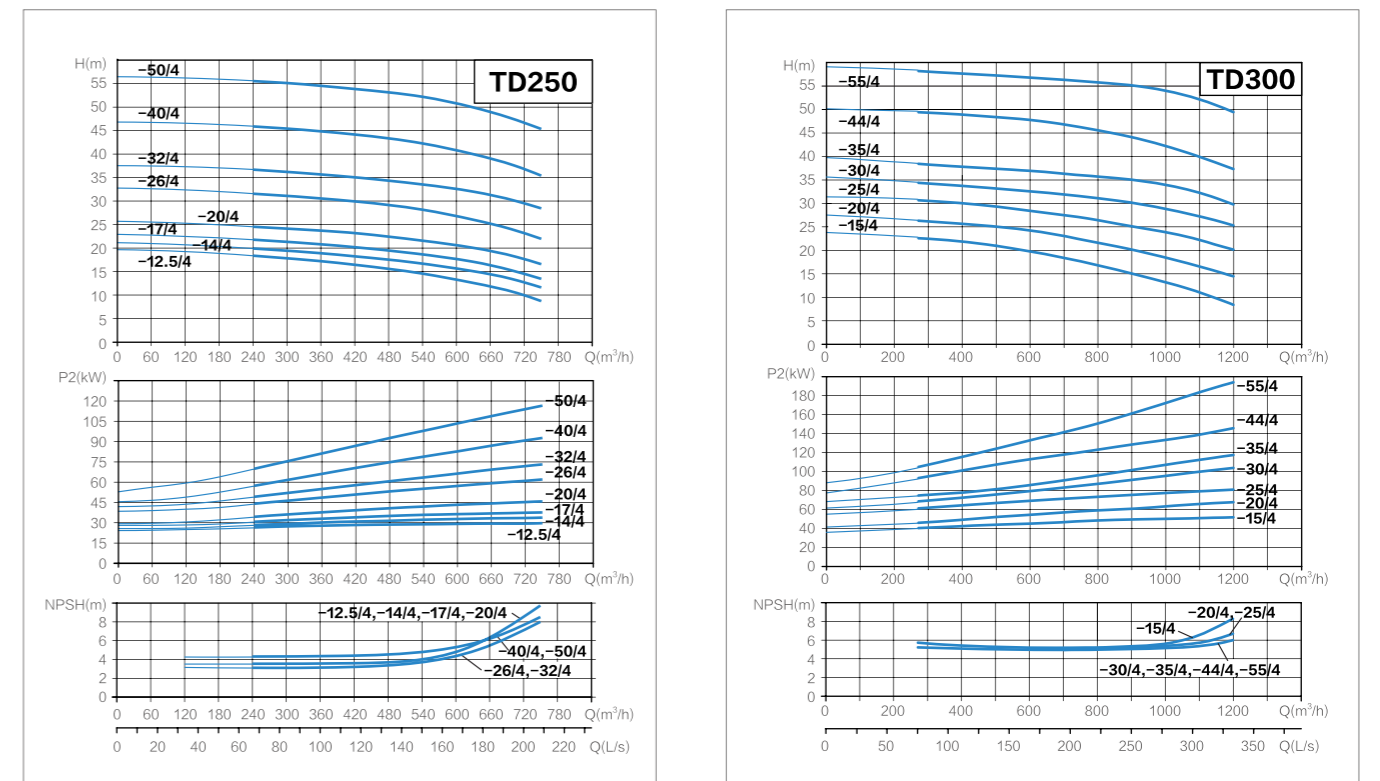
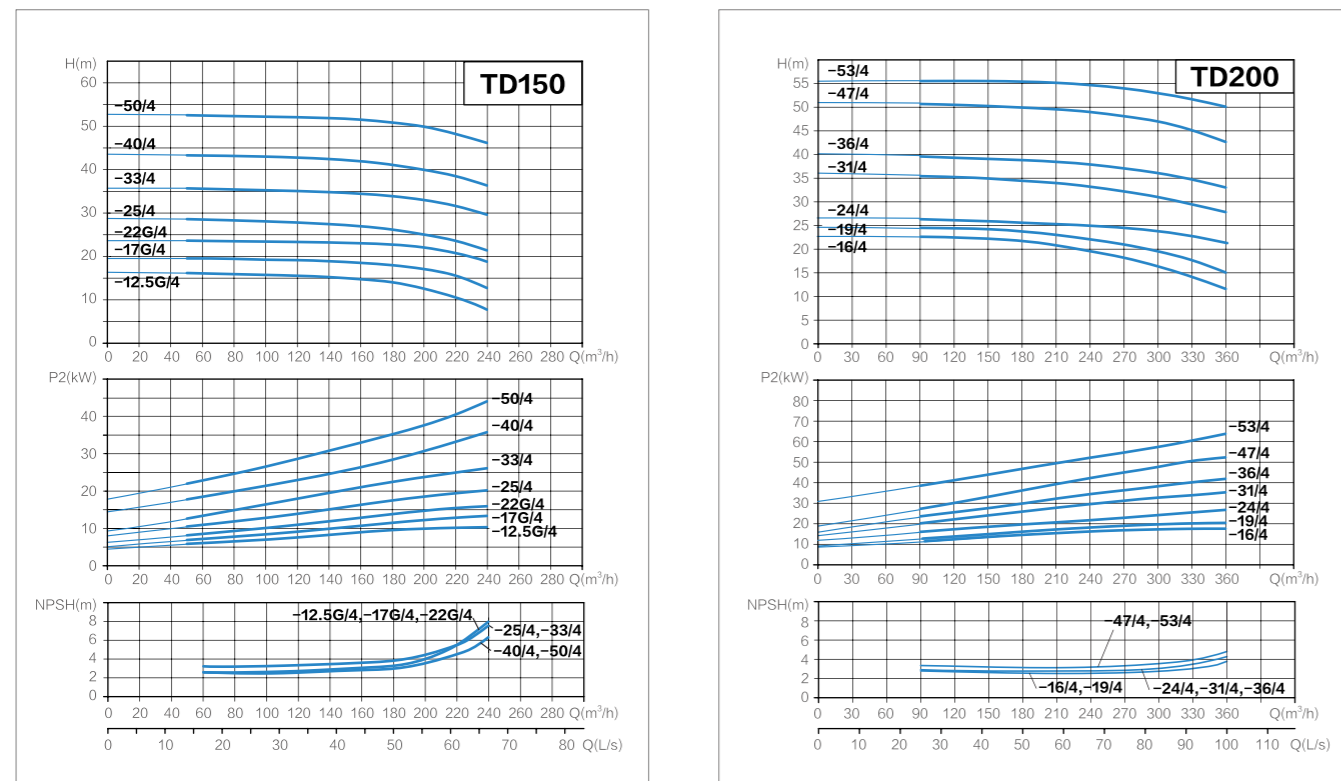
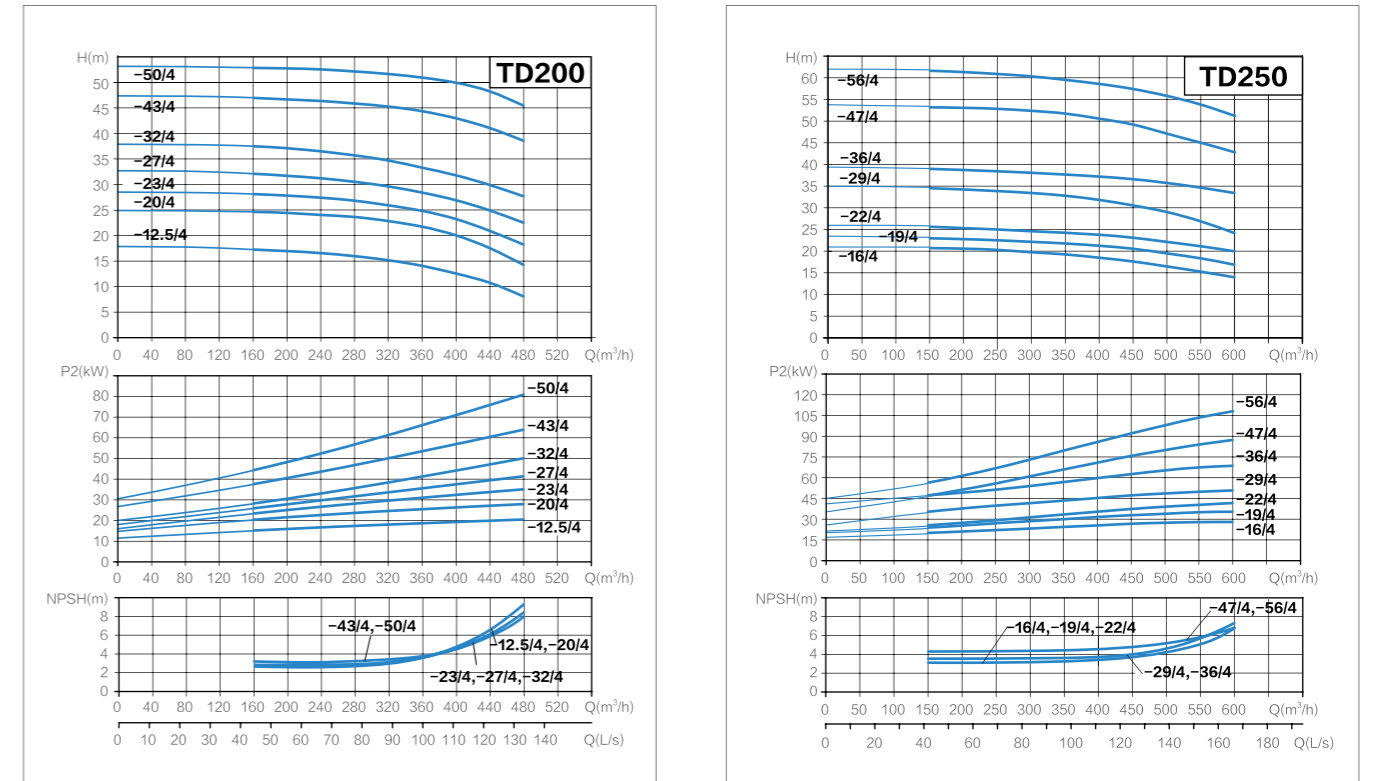
Hydraulic Performance Curves



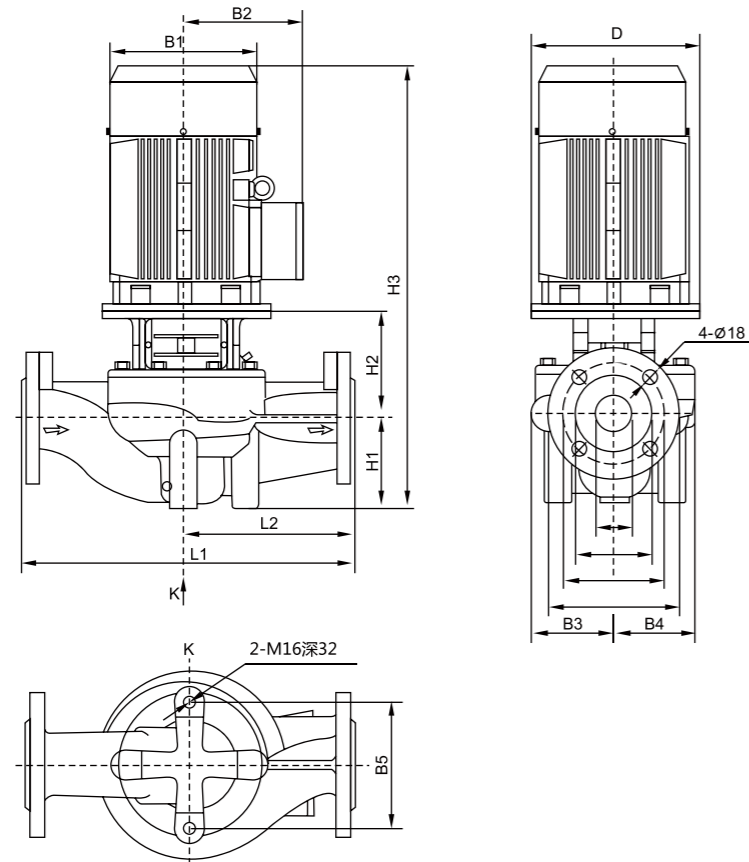
Hydraulic Performance Curves



Hydraulic Performance Curves



Technical Parameter

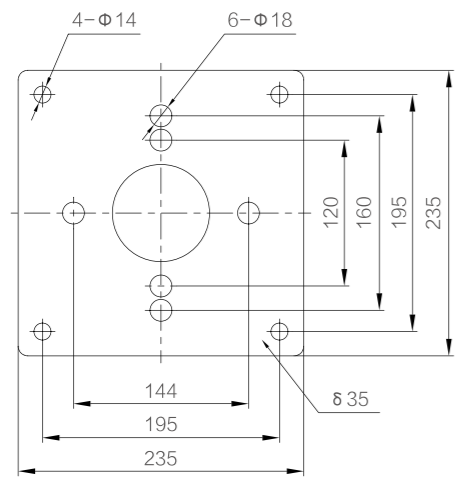


NO.	Model	Q (m³/h)	H (m)	N (r/min)	Standard motor voltage (V)		Size(mm)										Weight (kg)	
					1×220V P2(kW)	3×380V P2(kW)	D	B1	B2	B3	B4	B5	H1	H2	H3	L1		L2
1	TD32-14G/2	8	14	2900	0.75	0.75	120	151	125	101	101	144	90	135	469	320	160	33
2	TD32-18G/2	8	18		1.1	1.1	120	151	125	101	101	144	90	135	469	320	160	34
3	TD32-21G/2	12.5	21		1.5	1.5	140	171	137	101	101	144	90	137	514	320	160	38
4	TD32-26G/2	12.5	26		2.2	2.2	140	171	137	101	101	144	90	137	514	320	160	42
5	TD32-33G/2	12.5	33		3	3	160	196	150	109	109	144	90	145	572	340	170	52
6	TD32-40G/2	12.5	40		4	4	160	214	169	128	128	144	100	151	593	360	180	65
7	TD32-50G/2	12.5	50		5.5	5.5	200	257	190	128	128	144	100	173	656	360	180	84
8	TD40-14G/2	8	14		0.75	0.75	122	151	125	98	95	120	68	139	451	320	160	31
9	TD40-16G/2	12.5	16		1	1.1	122	151	125	98	95	120	68	139	451	320	160	32

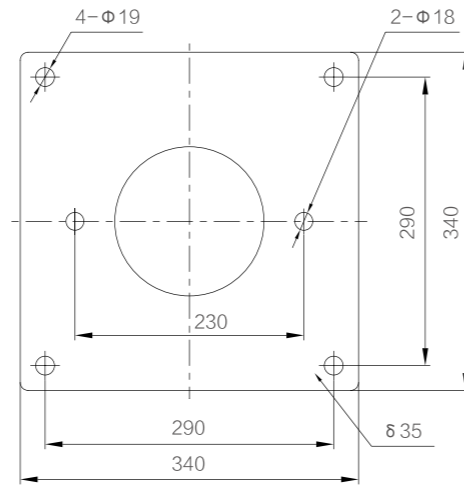
Technical Parameter

NO.	Model	Q (m³/h)	H (m)	N (r/min)	Standard motor voltage (V)		Size(mm)										Weight (kg)	
					1×220V P2(kW)	3×380V P2(kW)	D	B1	B2	B3	B4	B5	H1	H2	H3	L1		L2
10	TD40-21G/2	12.5	21	2900	1.5	1.5	140	171	137	98	95	120	68	149	504	320	160	38
11	TD40-20G/2	20	20		2.2	2.2	140	171	137	105	95	144	85	144	516	320	160	43
12	TD40-26G/2	20	26		3	3	160	196	150	116	109	144	85	156	578	340	170	54
13	TD40-30G/2	25	30		4	4	160	214	169	116	109	144	85	156	583	340	170	62
14	TD40-36G/2	25	36		5.5	5.5	200	257	190	133	128	144	90	181	654	380	190	85
15	TD40-48G/2	25	48		7.5	7.5	200	257	190	133	128	144	90	181	654	380	190	94
16	TD50-32G/2	12.5	32		3	3	160	196	150	128	128	144	105	150	592	400	200	64
17	TD50-39G/2	12.5	39		4	4	160	214	169	128	128	144	105	150	597	400	200	71
18	TD50-49G/2	12.5	49		5.5	5.5	200	257	190	128	128	144	105	172	660	400	200	88
19	TD50-59G/2	12.5	59		7.5	7.5	200	257	190	163	163	144	105	178	666	440	220	112
20	TD50-80G/2	12.5	80		11	11	350	314	261	163	163	144	105	222	783	440	220	184
21	TD50-12G/2	16	12		1.1	1.1	120	151	125	114	101	144	105	135	484	340	170	37
22	TD50-15G/2	20	15		1.5	1.5	140	171	137	114	101	144	105	137	529	340	170	42
23	TD50-18G/2	25	18		2.2	2.2	140	171	137	114	101	144	105	137	529	340	170	45
24	TD50-24G/2	25	24		3	3	160	196	150	114	101	144	105	147	589	340	170	55
25	TD50-28G/2	30	28		4	4	160	214	169	118	109	144	105	152	599	340	170	64
26	TD50-35G/2	30	35		5.5	5.5	200	257	190	118	109	144	105	175	663	340	170	81
27	TD50-40G/2	35	40		7.5	7.5	200	257	190	142	138	144	105	175	663	400	200	98
28	TD50-50G/2	40	50		11	11	350	314	261	142	138	144	105	225	830	400	200	173
29	TD50-60G/2	50	60		15	15	350	314	261	171	163	144	115	225	840	440	220	196
30	TD50-70G/2	50	70		18.5	18.5	350	314	261	171	163	144	115	225	884	440	220	203
31	TD50-81G/2	50	81		22	22	350	355	273	171	163	144	115	225	917	440	220	256
32	TD65-37G/2	25	37		5.5	5.5	200	257	190	128	128	144	105	180	668	400	200	90
33	TD65-48G/2	25	48		7.5	7.5	200	257	190	128	128	144	105	180	668	400	200	98
34	TD65-15G/2	30	15		2.2	2.2	140	171	137	116	101	144	105	153	545	340	170	48
35	TD65-20G/2	30	20		3	3	160	196	150	116	101	144	105	163	605	340	170	57
36	TD65-22G/2	40	22		4	4	160	214	169	116	101	144	105	163	610	340	170	64
37	TD65-30G/2	40	30		5.5	5.5	200	257	190	131	115	144	105	194	682	360	180	85
38	TD65-34G/2	50	34		7.5	7.5	200	257	190	131	115	144	105	194	682	360	180	94
39	TD65-41G/2	50	41		11	11	350	314	261	148	138	144	105	234	839	400	200	173
40	TD65-51G/2	50	51	15	15	350	314	261	148	138	144	105	234	839	400	200	188	
41	TD65-61G/2	50	61	18.5	18.5	350	314	261	174	162	160	125	228	897	475	238	208	
42	TD65-68G/2	50	68	22	22	350	355	273	174	162	160	125	228	930	475	238	260	
43	TD65-85G/2	50	85	30	30	400	397	314	174	162	160	125	231	1008	475	238	322	
44	TD80-41G/2	50	41	11	11	350	314	261	137	128	144	115	221	836	500	250	176	

Accessories-Base Plate Size



Base Plate A



Base Plate B

NO.	Model	Base Plate Model	NO.	Model	Base Plate Model	NO.	Model	Base Plate Model
1	TD32-14G/2	A	27	TD50-40G/2	A	53	TD80-54G/2	A
2	TD32-18G/2	A	28	TD50-50G/2	A	54	TD80-67G/2	A
3	TD32-21G/2	A	29	TD50-60G/2	A	55	TD100-9/2	A
4	TD32-26G/2	A	30	TD50-70G/2	A	56	TD100-15/2	A
5	TD32-33G/2	A	31	TD50-81G/2	A	57	TD100-17G/2	A
6	TD32-40G/2	A	32	TD65-37G/2	A	58	TD100-22G/2	A
7	TD32-50G/2	A	33	TD65-48G/2	A	59	TD100-27/2	A
8	TD40-14G/2	A	34	TD65-15G/2	A	60	TD100-33/2	A
9	TD40-16G/2	A	35	TD65-20G/2	A	61	TD100-40G/2	B
10	TD40-21G/2	A	36	TD65-22G/2	A	62	TD100-48G/2	B
11	TD40-20G/2	A	37	TD65-30G/2	A	63	TD100-52G/2	B
12	TD40-26G/2	A	38	TD65-34G/2	A	64	TD125-11G/4	B
13	TD40-30G/2	A	39	TD65-41G/2	A	65	TD125-14G/4	B
14	TD40-36G/2	A	40	TD65-51G/2	A	66	TD125-19G/4	B
15	TD40-48G/2	A	41	TD65-61G/2	A	67	TD125-22G/4	B
16	TD50-32G/2	A	42	TD65-68G/2	A	68	TD125-28G/4	B
17	TD50-39G/2	A	43	TD65-85G/2	A	69	TD125-32G/4	B
18	TD50-49G/2	A	44	TD80-41G/2	A	70	TD125-40G/4	B
19	TD50-59G/2	A	45	TD80-48G/2	A	71	TD125-48G/4	B
20	TD50-80G/2	A	46	TD80-13G/2	A	72	TD150-12.5G/4	B
21	TD50-12G/2	A	47	TD80-18G/2	A	73	TD150-17G/4	B
22	TD50-15G/2	A	48	TD80-23G/2	A	74	TD150-22G/4	B
23	TD50-18G/2	A	49	TD80-29G/2	A	75	TD150-25/4	B
24	TD50-24G/2	A	50	TD80-32G/2	A	76	TD150-33/4	B
25	TD50-28G/2	A	51	TD80-38G/2	A	77	TD150-40/4	B
26	TD50-35G/2	A	52	TD80-47G/2	A	78	TD150-50/4	B