

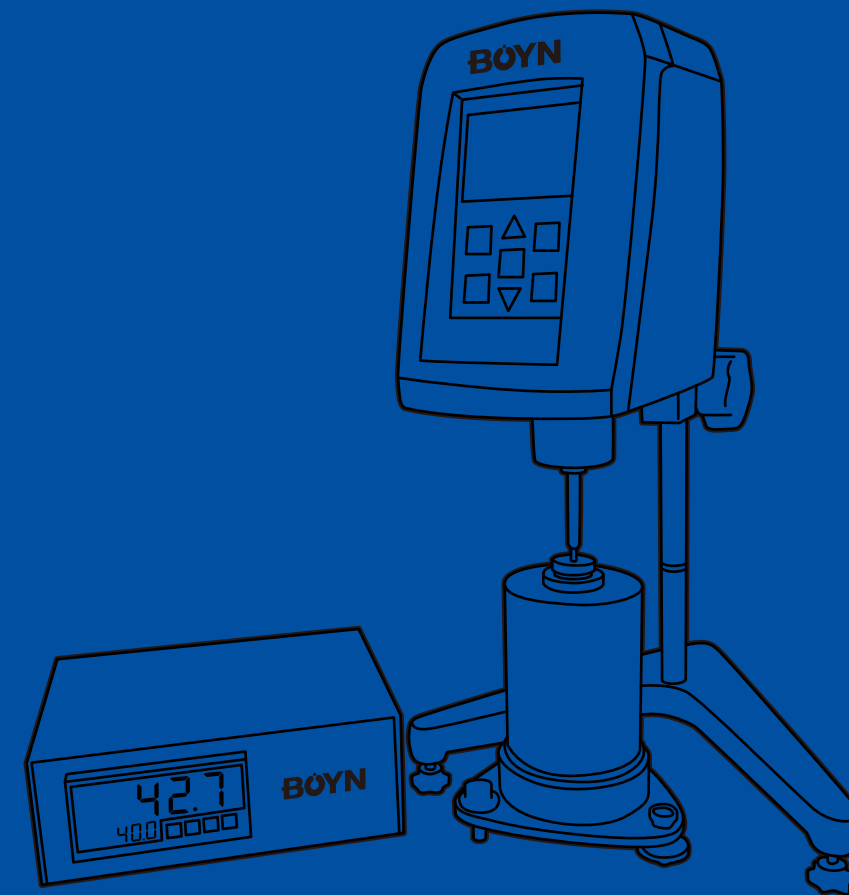
BOYN

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VISCOMETER

Your reliable Laboratory &
Medical instruments specialist

2022



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HANGZHOU BOYN INSTRUMENT CO., LTD



Company profile

HANGZHOU BOYN INSTRUMENT CO.,LTD is one of the leading companies for providing you the widest range of laboratory equipment and educational apparatus and medical instruments from china.

BOYN's products are widely applicable for university and college, hospital, pharmaceutical industry, ministry of environmental protection and scientific research institute etc. We assure the quality and durability of all our products, as each product is individually tested and inspected by our proficient technicians before dispatching the consignment.

We are ISO 9001:2015 Certified company and All our products are designed and manufactured in accordance with ISO9001 / ISO13485 by dedicated and experienced R&D engineering team.

With excellent service and superior quality and affordable budget, BOYN products have gain very good reputation from global market.

Sincerely look forward to working with you .

Dial rotational viscometer



Features

- Using synchronous motor with stable rotational speed, connecting scale disc and then through the gossamer and shaft drives the rotor to rotate.
- Using gear and clutch system to variable speed, operated by a dedicated rotary knob, divided into four stalls speed, can be selected based on the measurement.
- With 1 to 4 four kinds of rotors, can be preset 4 stall speed, according to the measurement of the viscosity of the liquid to choose the speed with the use of speed, meet the requirements of different range of measurement.
- Equipped with a fixed control device (pointer control lever), easy to read accurate readings when speed faster.

Technical Parameters

Model	NDJ-1	NDJ-4
Measuring Range (mPa.s)	1~100K	1~2M
Rotating Speed	6/12/30/60rpm	0.3/0.6/1.5/6/12/30/60rpm
Standard Spindles	Four Spindles (Code 1,2,3,4) (optional code 0 spindle to test Min 0.1 mPa.s)	
Accuracy	±5% full scale range (Newtonian liquid)	
Power supply	AC 220V±10V 50Hz	
Net Weight	2.0kg	2.0kg
Overall dimension	280×290×450mm	300×300×450 mm

Features

- The instrument is driven by micro synchronous motor, which can rotate at constant speed and is not affected by load and power supply voltage.
- There are two kinds of test units, each of which includes a measuring container and several rotating cylinders with rotating shafts, to meet the test requirements of each sample.
- Novel design, arc dial, easy to read.

Technical Parameters

Model	NDJ-79
Measuring Range (mPa.s)	1~1M
Rotating Speed	750rpm,75rpm,7.5rpm
Measuring unit	II and III
Accuracy	±5% full scale range (Newtonian liquid)
Power supply	AC 220V±10V 50Hz
Net Weight	12kg
Overall dimension	185×165×450mm

Note

M=1 million K=1 thousand cP=Centipoise mPa.s=Millipascal-seconds



Stormer viscometer



Features

- Comply with ASTM D562

Technical Parameters

Model	STM-2T(KU-2)
Measuring Range	40~141 KU / 32~1,099 gm / 27~5,274 cP *
Rotating Speed	200rpm
Standard Spindles	one spindle
Measuring container	one container
Accuracy	±3% full scale range (Newtonian liquid)
Repeatability	±1.5% full scale range (Newtonian liquid)
Power supply	AC 100-240V 50/60Hz

Note

M=1 million K=1 thousand cP=Centipoise mPa.s=Millipascal-seconds

Double cylinder digital viscometer

Features

- Built-in RTD Temperature Probe
- Auto switch between dynamic and kinematic viscosity
- Variety of viscosity units
- Continuous viscosity testing
- Linear calibration

Technical Parameters

Model	NTV-79	NTV-79A	NTV-79B	NTV-79P
Measuring Range (mPa.s)	1-1M	1-1.5M	1-7.5M	1-75M
Rotating Speed	7.5/75/750rpm	5-750rpm (Increment:100rpm)	1-800rpm (Increment:10rpm)	1-800rpm
Temperature	0-120°C			
Standard Spindles	The three spindles (Code E,F,G) are with B container for high viscosity The four spindles (Code A,B,C,D) are with A container for low viscosity			
Accuracy	±1.0% full scale range (Newtonian liquid)			
Repeatability	±0.5% full scale range (Newtonian liquid)			
Power supply	AC 100-240V 50/60Hz			

Note

M=1 million K=1 thousand cP=Centipoise mPa.s=Millipascal-seconds



Digital viscometer



Features

- Have timing measurement function, special for non-Newtonian liquids sample.
- Direct readout of all measurement parameters;
- Auto Range Showing
- With RS232 interface can be directly connected to the micro printer.
- Optional temperature probe

Technical Parameters

Model	NDJ-1S	NDJ-4S
Measuring Range (mPa.s)	20 ~ 100K	20 ~ 2M
Rotating Speed	6/12/30/60rpm	0.3/0.6/1.5/3/6/12/30/60rpm
Standard Spindles	Four Spindles (Code L1,L2,L3,L4)	
Accuracy	±5% relative error	
Repeatability	±1% relative error	
Power supply	AC 100-240V 50/60Hz	
Optional LO Spindle Measuring Range (mPa.s)	1 ~ 100	1 ~ 2000

Features

- Have timing measurement function, special for non-Newtonian liquids sample.
- Measurement data is displayed directly on the LCD screen;
- It can automatically recommend the best combination of spindle and speed
- With RS232 interface can be directly connected to the micro printer.
- It can automatically display the maximum viscosity range of the selected spindle and rotor
- Optional temperature probe
- Optional data collecting analysis software



Technical Parameters

Model	NDJ-5S	NDJ-9S	NDJ-8S
Measuring Range (mPa.s)	1 ~ 100K		1 ~ 2M
Rotating Speed	6/12/30/60rpm		0.3/0.6/1.5/3/6/12/30/60rpm
Standard Spindles	Four Spindles (Code 1#,2#,3#,4#)		
Display Resolution	0.01mPa.S		
Accuracy	±3% full scale range (Newtonian liquid)	±1.5% full scale range (Newtonian liquid)	±3% full scale range (Newtonian liquid)
Repeatability	±1.5% full scale range (Newtonian liquid)	±0.75% full scale range (Newtonian liquid)	±1.5% full scale range (Newtonian liquid)
Power supply	AC 100-240V 50/60Hz		
Overall dimension	300x300x450mm		
Optional O# Spindle	1 ~ 100		1 ~ 2000
Measuring Range (mPa.s)	1 ~ 100		1 ~ 2000

Note

M=1 million K=1 thousand cP=Centipoise mPa.s=Millipascal-seconds

Digital viscometer



Features

- Adopt ARM technology, built-in Linux system.
- Linear calibration
- Variety display: viscosity (dynamic viscosity and kinematic viscosity), temperature, shear rate, shear stress, measurement value as a percentage of the full range value (graphic display, range overflow alarm, automatic scanning, Maximum measurement range, date, time and so on under current rotor speed combination.
- Complete functions: timing measurement, self-built 30 groups of test programs, access to 30 groups of measurement data, real-time display of viscosity curves, printing data and curves;
- Optional temperature probe

Technical Parameters

Model	NDJ-5ST	NDJ-9ST	NDJ-8ST
Measuring Range (mPa.s)	1 ~ 100K		1 ~ 2M
Rotating Speed	6/12/30/60rpm		0.3/0.6/1.5/3/6/12/30/60rpm
Standard Spindles	Four Spindles (Code 1#,2#,3#,4#)		
Display Resolution	0.01mPa.S		
Accuracy	±3% full scale range (Newtonian liquid)	±1.5% full scale range (Newtonian liquid)	±3% full scale range (Newtonian liquid)
Repeatability	±1.5% full scale range (Newtonian liquid)	±0.75% full scale range (Newtonian liquid)	±1.5% full scale range (Newtonian liquid)
Power supply	AC 100-240V 50/60Hz		
Overall dimension	300x300x450mm		
Optional Ulr O# Spindle	1 ~ 100		1 ~ 2000
Measuring Range (mPa.s)	1 ~ 100		1 ~ 2000

Features

- LCD display the viscosity, speed, torque spindle, temperature
- The maximum viscosity can be measured in the current spindle speed value.
- Standard with RTD temperature probe
- Standard with RS232 interface

Technical Parameters

Model	SNB-1	SNB-2	SNB-3	SNB-A1
Measuring Range (mPa.s)	20 ~ 600K	12 ~ 6M	160 ~ 80M	50 ~ 10M
Rotating Speed	1 ~ 60rpm	0.1 ~ 99.9rpm	0.1 ~ 99.9rpm	0.1 ~ 200rpm
Standard Spindles	Four Spindles (Code L1,L2,L3,L4)			Four Spindles (Code 21,27,28,29)
Accuracy	±1% full scale range (Newtonian liquid)			
Repeatability	±0.5% full scale range (Newtonian liquid)			
Power supply	AC 100-240V 50/60Hz			
Optional LO Spindle	1 ~ 600mPa.s	0.6 ~ 6,000mPa.s	6 ~ 60,000mPa.s	3 ~ 60,000mPa.s
Measuring Range	1 ~ 600mPa.s	0.6 ~ 6,000mPa.s	6 ~ 60,000mPa.s	3 ~ 60,000mPa.s

Note

M=1 million K=1 thousand cP=Centipoise mPa.s=Millipascal-seconds



Digital viscometer



Features

- LCD display the viscosity, speed, torque spindle, temperature
- The maximum viscosity can be measured in the current spindle speed value.
- Standard with RTD temperature probe
- Standard with RS232 interface
- DV-2 series model can display shear rate and shear stress

Technical Parameters

Model	LVDV-1	RVDV-1	HBDV-1
Measuring Range (mPa.s)	12 ~ 6M	80 ~ 40M	640 ~ 320M
Rotating Speed		0.1 ~ 99.9rpm	
Standard Spindles	Four Spindles (Code L1,L2,L3,L4)	Six Spindles (Code R2,R3,R4,R5,R6,R7)	Six Spindles (Code R2,R3,R4,R5,R6,R7)
Accuracy	±1% full scale range (Newtonian liquid)		
Repeatability	±0.5% full scale range (Newtonian liquid)		
Power supply	AC 100-240V 50/60Hz		
Optional LO Spindle Measuring Range (mPas)	0.6 ~ 6k	6 ~ 60K	50 ~ 500k
Optional R1 Spindle Measuring Range (mPas)	/	20 ~ 100K	160 ~ 800k

Model	LVDV-2	RVDV-2	HBDV-2
Measuring Range (mPa.s)	6 ~ 6M	40 ~ 40M	320 ~ 320M
Rotating Speed		0.1 ~ 200rpm	
Standard Spindles	Four Spindles (Code L1,L2,L3,L4)	Six Spindles (Code R2,R3,R4,R5,R6,R7)	Six Spindles (Code R2,R3,R4,R5,R6,R7)
Accuracy	±1% full scale range (Newtonian liquid)		
Repeatability	±0.5% full scale range (Newtonian liquid)		
Power supply	AC 100-240V 50/60Hz		
Optional LO Spindle Measuring Range (mPas)	0.3 ~ 6k	3 ~ 60k	25 ~ 500k
Optional R1 Spindle Measuring Range (mPas)	/	10 ~ 100k	80 ~ 800k

Note

M=1 million K=1 thousand cP=Centipoise mPa.s=Millipascal-seconds

Digital viscometer



Features

- Adopt ARM technology, built-in Linux system.
- Linear calibration
- Variety display: viscosity (dynamic viscosity and kinematic viscosity), temperature, shear rate, shear stress, measurement value as a percentage of the full range value (graphic display, range overflow alarm, automatic scanning, Maximum measurement range, date, time and so on under current rotor speed combination).
- Complete functions: timing measurement, self-built 30 groups of test programs, access to 30 groups of measurement data, real-time display of viscosity curves, printing data and curves;
- Stepless speed regulation:
- Showing the curve of shear rate versus viscosity and Curve of time to viscosity
- Standard USB interface to copy data directly
- Optional Pt100 temperature probe

Technical Parameters

Model	LVDV-1T	RVDV-1T	HADV-1T	HBDV-1T
Measuring range (mPa.S)	10-2M	100-13M	200-26M	800-104M
Rotating Speed	0.3-100rpm			
Standard Spindles	Four Spindles (Code ULR: 0.6-1K 18#: 3 - 10K 25#: 480 - 1.60M 31#: 30 - 100K 34#: 20 - 200K 1- 4#: 300 - 400ml ULR: 21ml 18#: 7ml 25#: 9ml 31#: 10.5ml 34#: 11ml		Six Spindles (Code R2,R3,R4,R5,R6,R7) URL: 12.8 - 1K 21#: 100-333K 27#: 500-1.7K 28#: 1K-3.3M 29#: 2K-6.6M R1-R7: 500ml ULR: 21ml 21#: 7.8ml 27#: 11.3ml 28#: 12.6ml 29#: 11.5ml	
Optional Spindle Measuring Range (mPa.S)		URL: 6.4 - 1K 21#: 50-167K 27#: 250-834K 28#: 500-1.7M 29#: 1K-3.3M		URL: 51.2 - 2K 21#: 400-1.3M 27#: 2K-6.7M 28#: 4K-13.3M 29#: 8K-26.6M
Sample volume				
Accuracy	±1% full scale range (Newtonian liquid)			
Repeatability	±0.5% full scale range (Newtonian liquid)			
Power supply	AC 100-240V 50/60Hz			

Model	LVDV-2T	RVDV-2T	HADV-2T	HBDV-2T
Measuring range (mPa.S)	10-6M	100-4000M	200-8000M	800-32000M
Rotating Speed	0.1-200rpm			
Standard Spindles	Four Spindles (Code ULR: 0.3-6K 18#: 1.5 - 300K 25#: 240 - 4.8M 31#: 15 - 300K 34#: 30 - 600K 1- 4#: 300 - 400ml ULR: 21ml 18#: 7ml 25#: 9ml 31#: 10.5ml 34#: 11ml		Six Spindles (Code R2,R3,R4,R5,R6,R7) URL: 6.4 - 1K 21#: 50-1M 27#: 250-5M 28#: 500-10M 29#: 1K-20M R1-R7: 500ml ULR: 21ml 21#: 7.8ml 27#: 11.3ml 28#: 12.6ml 29#: 11.5ml	
Optional Spindle Measuring Range (mPa.S)		URL: 3.2 - 1K 21#: 25-500K 27#: 125-2.5M 28#: 250-5M 29#: 500-10M		URL: 25.6 - 2K 21#: 200-4M 27#: 1K-20M 28#: 2K-40M 29#: 4K-80M
Sample volume				
Accuracy	±1% full scale range (Newtonian liquid)			
Repeatability	±0.5% full scale range (Newtonian liquid)			
Power supply	AC 100-240V 50/60Hz			

Note

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Intelligent viscometer



Features

- Temperature and correction factor: protected by password
- Rotate speed: variety of speed and easy to choose
- Auto switch between dynamic and kinematic viscosity
- Variety of viscosity units
- Continuous viscosity testing
- Sound alarm when beyond measurement range
- Linear calibration

Technical Parameters

Model	NTV-P2LV	NTV-P2RV	NTV-P2HA	NTV-P2HB
Measuring Range (mPas)	1-2M	100-13M	200-26M	800-104M
Rotating Speed	0.3-100rpm			
Standard Spindles	Four Spindles (Code 1#, 2#, 3#, 4#)		Six Spindles (Code 2#, 3#, 4#, 5#, 6#, 7#)	
Accuracy	±1.0% full scale range (Newtonian liquid)			
Repeatability	±0.5% full scale range (Newtonian liquid)			
Power supply	AC 100-240V 50/60Hz			

Model	NTV-P3LV	NTV-P3RV	NTV-P3HA	NTV-P3HB
Measuring Range (mPas)	1-6M	100-40M	200-80M	800-320M
Rotating Speed	0.1-250rpm			
Spindles	Four Spindles (Code 1#, 2#, 3#, 4#)		Six Spindles (Code 2#, 3#, 4#, 5#, 6#, 7#)	
Accuracy	±1.0% full scale range (Newtonian liquid)			
Repeatability	±0.5% full scale range (Newtonian liquid)			
Power supply	AC 100-240V 50/60Hz			

Note

M=1 million K=1 thousand cP=Centipoise mPa·s=Millipascal-seconds

High temperature viscometer



Features

- Have timing measurement function, special for non-Newtonian liquids sample.
- Measurement data is displayed directly on the LCD screen;
- Use small sample adapters, usually only 15-20 ml sample volume;
- Optional temperature range RT+10°C~300°C
- With RS232 interface can be directly connected to the micro printer.

Technical Parameters

Model	LV-SSR-H	RV-SSR-H (NDJ-1C)	HA-SSR-H	HB-SSR-H (NDJ-1F)
Measuring Range (mPas)	3~1.6M	50~2M	100~4M	400~16M
Rotating Speed	0.5/1/2/2.5/4/5/10/15/20/25/30/40/50/60/70/80/90/100rpm			
Standard Spindles	Four Spindles (Code18,25,31,34)		Four Spindles (Code21,27,28,29)	
Optional Spindle 0# Measuring Range	0.6~1K	6.4~1K	12.8~1K	51.2~2K
Accuracy	±2% full scale range (Newtonian liquid)			
Repeatability	±1% full scale range (Newtonian liquid)			
Temperature Control Range	RT+10°C~250°C (Optional of RT+10°C~300°C)			
Temperature Control Accuracy	±0.1°C			
Power supply	AC 220V 50/60Hz			



Portable digital viscosimeter

Features

- Insert the fluid and do real-time measurement
- microcomputer control technique
- calibration of full scale ,every level linearity;
- LCD display-
- prevent slippery handle- overrange alarm;
- Display temperature ,viscosity ,rotate speed ,torsion in percentage- serial number of rotor and the maximum viscosity of seleted rotor in current speed on LCD;
- AC/DC power supply in two design, lithium batteries continuous measuring eight hours without charging;

Technical Parameters

Model	LPDV-1	RPDV-1	HPDV-1
Measuring Range (mPas)	25 - 150K	50 - 300K	200 - 1.2M
Rotating Speed	60/100/150/200rpm		
Standard Spindles	Four Spindles (Code B1,B2,B3,B4)		
Accuracy	±2.0% full scale range (Newtonian liquid)		
Repeatability	±1% full scale range (Newtonian liquid)		
Power supply	AC 100-240V 50/60Hz		

Note

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High temperature viscometer



Features

- High subdivision stepper motor, accurate and stable speed.
- LCD can directly display the viscosity, speed, percentile torque, spindle number and the maximum viscosity and temperature of the selected spindle at the current speed.
- DV-2 series can also show shear rate and shear stress.
- Viscosity value shows continuous change, over measurement range alarm.
- High-temperature furnace uses embedded integral heating, uniform heating and small thermal inertia.
- The temperature controller display setting temperature and actual measuring temperature.
- Optional Data Collection and Analysis and Graphing Software

Technical Parameters

Model	LVDV-1H	RVDV-1H	HBDV-1H
Measuring Range (mPa.s)	10~1M	100~ 10M	800~ 80M
Rotating Speed		0.1~99.9rpm	
Standard Spindles		Four Spindles (Code21、 27、 28、 29)	
Accuracy		±1% full scale range (Newtonian liquid)	
Repeatability		±0.5% full scale range (Newtonian liquid)	
Sample capacity		10 ~ 20ml	
Temperature Control Range		RT+10 ~ 300°C	
Temperature Control Accuracy		±0.1°C	
Power supply		AC 220V 50/60Hz	

Model	LVDV-2H	RVDV-2H	HBDV-2H
Measuring Range (mPa.s)	5~1M	50~10M	400~ 80M
Rotating Speed		0.1~ 200rpm	
Standard Spindles		Four Spindles (Code21、 27、 28、 29)	
Accuracy		±1% full scale range (Newtonian liquid)	
Repeatability		±0.5% full scale range (Newtonian liquid)	
Sample capacity		10 ~ 20ml	
Temperature Control Range		RT+10 ~ 300°C	
Temperature Control Accuracy		±0.1°C	
Power supply		AC 220V 50/60Hz	

Note

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High temperature viscometer



Features

- All-in-one instrument that combines a temperature controller and a viscometer with small sample adapter (SSR) and its spindles
- The temperature controller is made up of semiconductor and built-in automatic optimizing temperature program.
- Temperature and correction factor: protected by password
- Optional software for temperature control
- It supports stepless-speed measurement and external storage.

Technical Parameters

Model	NTV-T1L	NTV-T1R	NTV-T1HA	NTV-T1HB
Measuring range (mPa.S)	5-330,000	50-3.3M	100-6.6M	400-26.4M
Lifting System	Automatic lifting system			
Rotating Speed	0.3-100 rpm			
Standard Spindles	Four Spindles (Code SC4-21, 27, 28, 29) (Optional: SC4-14, 15, 16, 18, 25, 31, 34)			
Sample Volume	2-16ml			
Temperature Range	-1~150°C			
Temperature accuracy	±0.1°C			
Accuracy	±1% full scale range (Newtonian liquid)			
Repeatability	±0.5% full scale range (Newtonian liquid)			
Optional Software	DV-T Software (RS232-USB interface)			
Power supply	AC 100-240V 50/60Hz			

Model	NTV-T3L	NTV-T3R	NTV-T3HA	NTV-T3HB
Measuring range (mPa.S)	5-1M	25-10M	50-20M	200-80M
Lifting System	Automatic lifting system			
Rotating Speed	0.1-200rpm			
Standard Spindles	Four Spindles (Code SC4-21, 27, 28, 29) (Optional: SC4-14, 15, 16, 18, 25, 31, 34)			
Sample Volume	2-16ml			
Temperature Range	RT+10~250°C			
Temperature accuracy	±0.1°C			
Accuracy	±1% full scale range (Newtonian liquid)			
Repeatability	±0.5% full scale range (Newtonian liquid)			
Optional Software	DV-T Software (RS232-USB interface)			
Power supply	AC 100-240V 50/60Hz			

Note

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Model	NTV-T2L	NTV-T2R	NTV-T2HA	NTV-T2HB
Measuring range (mPa.S)	2.5-1M	25-10M	50-20M	200-80M
Lifting System:	Automatic lifting system			
Rotating Speed	0.1-200rpm			
Standard Spindles	Four Spindles (Code SC4-21, 27, 28, 29) (Optional: SC4-14, 15, 16, 18, 25, 31, 34)			
Sample Volume	2-16ml			
Temperature Range	-1~150°C			
Temperature accuracy	±0.1°C			
Accuracy	±1% full scale range (Newtonian liquid)			
Repeatability	±0.5% full scale range (Newtonian liquid)			
Optional Software	DV-T Software (RS232-USB interface)			
Power supply	AC 100-240V 50/60Hz			

Model	NTV-T4L	NTV-T4R	ITV-T4HA	NTV-T4HB
Measuring range (mPa.S)	5-1M	25-10M	50-20M	200-80M
Lifting System	Automatic lifting system			
Rotating Speed	0.1-200rpm			
Standard Spindles	Four Spindles (Code SC4-21, 27, 28, 29) (Optional: SC4-14, 15, 16, 18, 25, 31, 34)			
Sample Volume	2-16ml			
Temperature Range	RT+10~500°C			
Temperature accuracy	±0.1°C			
Accuracy	±1% full scale range (Newtonian liquid)			
Repeatability	±0.5% full scale range (Newtonian liquid)			
Optional Software	DV-T Software (RS232-USB interface)			
Power supply	AC 100-240V 50/60Hz			

Cone plate viscometer



NTV-CAP1 NTV-CAP2



NTV-CAP3 NTV-CAP4

Features

- 7 inch touch screen
- Shear rate and shear stress displayed
- Anti-static shell and metal lifter
- Build-in PT100 temp probe
- ARM chip processor
- Gigabit Ethernet port: ensure rapid and stable data transfer
- External storage supports: single point, continuous and timing data
- Temperature and correction factor: protected by password
- Rotate speed: variety of speed and easy to choose
- Auto switch between dynamic and kinematic viscosity
- Variety of viscosity units
- Continuous viscosity testing
- Sound alarm when beyond measurement range
- Linear calibration

Technical Parameters

	Model	NTV-CAP1LV	NTV-CAP1RV	NTV-CAP1HA	NTV-CAP1HB
Measuring Range (mPa·s)	Spindle No.: CPE-40 / Shear rate:7.5N / Sample volume: 0.5ml	0.1-3K	1-32K	2.6-65K	10.5-261K
	Spindle No.: CPE-41 / Shear rate: 2.0N / Sample volume: 2.0ml	0.5-11K	5-122K	10-245K	39-982K
	Spindle No.: CPE-42 / Shear rate:3.84N / Sample volume:1.0ml	0.2-6K	2-64K	5-128K	20-512K
	Spindle No.: CPE-51 / Shear rate: 3.84N / Sample volume:0.5ml	2-48K	20-512K	41-1M	163-4M
	Spindle No.: CPE-52 / Shear rate: 2.0N / Sample volume: 0.5ml	3-92K	39-983K	78-2M	314-7.8M
Rotating Speed	0.1-250rpm				
Accuracy	±1.0% full scale range (Newtonian liquid)				
Temperature Range	L:-5°C~120°C, H: RT+5°C~250°C				
Temperature Accuracy	±0.1°C				
Power supply	AC 100~240V 50/60Hz				

	Model	NTV-CAP2 (@400rpm)	NTV-CAP2 (@750rpm)	NTV-CAP2 (@900rpm)
Measuring Range (mPa·s)	Spindle No.: CAP-01 / Shear Rate: 13.3N / Sample Volume: 67 μ L	47-469	25-250	20-208
	Spindle No.: CAP-02 / Shear Rate: 13.3N / Sample Volume: 38 μ L	90-938	50-500	40-417
	Shear Rate: CAP-03 / Shear Rate: 13.3N / Sample Volume: 24 μ L	180-1,875	100-1,000	80-833
	Shear Rate: CAP-04 / Shear Rate: 3.3N / Sample Volume: 134 μ L	300-3,750	200-2,000	170-1,667
	Shear Rate: CAP-05 / Shear Rate: 3.3N / Sample Volume: 67 μ L	600-7,500	400-4,000	300-3,300
	Spindle No.: CAP-06 / Shear Rate: 3.3N / Sample Volume: 30 μ L	1,500-18,750	1,000-10,000	800-8,333
	Spindle No.: CAP-07 / Shear Rate: 2.0N / Sample Volume: 1700 μ L	78-787	N/A	N/A
	Spindle No.: CAP-08 / Shear Rate: 2.0N / Sample Volume: 400 μ L	313-3,125	N/A	N/A
	Spindle No.: CAP-09 / Shear Rate: 2.0N / Sample Volume: 100 μ L	1,250-12,500	N/A	N/A
	Spindle No.: CAP-10 / Shear Rate: 5.0N / Sample Volume: 170 μ L	100-1,250	N/A	N/A
Rotating Speed	400rpm	750rpm	900rpm	
Accuracy	±1.0% full scale range (Newtonian liquid)			
Temperature Range	L:-5°C~120°C, H: RT+5°C~250°C			
Temperature Accuracy	±0.1°C			
Power supply	AC 100~240V 50/60Hz			

	Model	NTV-CAP3
Measuring Range (mPa·s)	Spindle No.: CAP-01 / Shear Rate: 13.3N / Sample Volume: 67 μ L	20-37.5K
	Spindle No.: CAP-02 / Shear Rate: 13.3N / Sample Volume: 38 μ L	40-75K
	Shear Rate: CAP-03 / Shear Rate: 13.3N / Sample Volume: 24 μ L	80-150K
	Shear Rate: CAP-04 / Shear Rate: 3.3N / Sample Volume: 134 μ L	100-300K
	Shear Rate: CAP-05 / Shear Rate: 3.3N / Sample Volume: 67 μ L	300-600K
	Spindle No.: CAP-06 / Shear Rate: 3.3N / Sample Volume: 30 μ L	800-1.5M
	Spindle No.: CAP-07 / Shear Rate: 2.0N / Sample Volume: 1700 μ L	78-62.5K
	Spindle No.: CAP-08 / Shear Rate: 2.0N / Sample Volume: 400 μ L	313-250K
	Spindle No.: CAP-09 / Shear Rate: 2.0N / Sample Volume: 100 μ L	1250-1M
	Spindle No.: CAP-10 / Shear Rate: 5.0N / Sample Volume: 170 μ L	100-100K
Rotating Speed	5-1000rpm	
Accuracy	±1.0% full scale range (Newtonian liquid)	
Temperature Range	L:-5°C~120°C, H: RT+5°C~250°C	
Temperature Accuracy	±0.1°C	
Power supply	AC 100~240V 50/60Hz	

	Model	NTV-CAP4
Measuring Range (mPa·s)	Spindle No.: CAP-01 / Shear Rate: 13.3N / Sample Volume: 67 μ L	20-37.5K
	Spindle No.: CAP-02 / Shear Rate: 13.3N / Sample Volume: 38 μ L	40-75K
	Shear Rate: CAP-03 / Shear Rate: 13.3N / Sample Volume: 24 μ L	80-150K
	Shear Rate: CAP-04 / Shear Rate: 3.3N / Sample Volume: 134 μ L	100-300K
	Shear Rate: CAP-05 / Shear Rate: 3.3N / Sample Volume: 67 μ L	300-600K
	Spindle No.: CAP-06 / Shear Rate: 3.3N / Sample Volume: 30 μ L	800-1.5M
	Spindle No.: CAP-07 / Shear Rate: 2.0N / Sample Volume: 1700 μ L	78-62.5K
	Spindle No.: CAP-08 / Shear Rate: 2.0N / Sample Volume: 400 μ L	313-250K
	Spindle No.: CAP-09 / Shear Rate: 2.0N / Sample Volume: 100 μ L	1250-1M
	Spindle No.: CAP-10 / Shear Rate: 5.0N / Sample Volume: 170 μ L	100-100K
Rotating Speed	5-1000rpm	
Accuracy	±1.0% full scale range (Newtonian liquid)	
Temperature Range	RT+10°C~500°C	
Temperature Accuracy	±0.1°C	
Power supply	AC 100~240V 50/60Hz	

Note

N= rotate speed(rpm) M=1 million K=1 thousand cP=Centipoise mPa·s=Millipascalseconds

Viscosity cups

ISO flow cups



Standards
ISO2431
ASTM D5125

Technical Parameters				
Cat. No.	Cup No.	Orifice (mm)	Range (cSt)	Efflux (Sec)
BN 1020/3	3	3	7-42	30-100
BN 1020/4	4	4	34-135	25-100
BN 1020/5	5	5	91-326	25-100
BN 1020/6	6	6	188-684	25-100

Ford viscosity cups



Standards
ASTM D1200, D333, D365

Technical Parameters				
Cat. No.	Cup No.	Orifice (mm)	Range (cSt)	Efflux (Sec)
BN 1021/1	1	1.9	10-35	25-105
BN 1021/2	2	2.53	25-120	25-105
BN 1021/3	3	3.4	49-220	25-105
BN 1021/4	4	4.12	70-370	20-105
BN 1021/5	5	5.2	200-1200	20-105

Coating viscosity cup

Standards
GB/T 1723

Technical Parameters	
Cat. No.	BN 1023/1
Measuring Time Range	30s≤t≤100s
Orifice	4mm
Capacity of flow cup	100ml
Range(cSt)	112-685 cSt

Technical Parameters	
Cat. No.	BN 1023/2
Measuring Time Range	30s≤t≤100s
Orifice	4mm
Capacity of flow cup	100ml
Range(cSt)	112-685 cSt



Technical Parameters	
Cat. No.	BN 1023/3
Measuring Time Range	30s≤t≤100s
Orifice	4mm
Capacity of flow cup	100ml
Range(cSt)	112-685 cSt

DIN cup



Standards
DIN 53211

Technical Parameters	
Cat.No.	BN 1022/1
Capacity	100 ml
Cup Material	Anodized Aluminum
Orifice Dia.	4 mm
Orifice Material	stainless steel
Efflux Time	20-110 sec
Test Range	96-683 cSt

Note: orifice dia. 2 mm, 3 mm, 5 mm, 6 mm and 8 mm also available.

DIN dip cup



Standards
DIN 53211

Technical Parameters	
Cat.No.	BN 1022/2
Capacity	100 ml
Cup Material	Anodized Aluminum
Orifice Dia.	4 mm
Orifice Material	stainless steel
Efflux Time	20-110 sec
Test Range	96-683 cSt

Note: orifice dia. 2 mm, 3 mm, 5 mm, 6 mm and 8 mm also available.

Lwata cup



Technical Parameters	
Cat. No.	BN 1025
Orifice	3.5 mm
Capacity	50 ml
Material	SS with Nickel-plated
Efflux Time	10-60 sec
Test Range	70-370 cSt
Dimensions	280x40x40 mm
Shipping Weight	0.5 kg



Zahn cup

Standards
ASTM D 4212

Technical Parameters				
Cat.No.	Cup.No.	Orifice(mm)	Range(cSt)	Efflux(Sec)
BN 1024/1	1	1.8	5-60	35-80
BN 1024/2	2	2.7	20-250	20-80
BN 1024/3	3	3.8	100-800	20-80
BN 1024/4	4	4.3	200-1200	20-80
BN 1024/5	5	5.3	400-1800	20-80

Stand for viscosity cups



Technical Parameters	
Cat. No.	BN 1026
Ring Diameter	57mm
Vertical Height	230mm

Viscometer accessories



CH1015



DC0506W

Thermostatic water bath

Model	CH1015	DC0506W
Temperature Range	RT+10~100°C	-5 ~ 100°C
Temperature Fluctuation		± 0.05°C
Display Resolution		0.1°C
Volume	15L	6L
Inner Dimensions (L×W×D)	235×140×200mm	145×145×150mm
Circulation Mode	External	Internal / External
Pump Flow		8-10 L
Electric Supply		AC 220V 50HZ
Power	2kw	1.5kw
Overall Dimensions (L×W×D)	440×600×460mm	420×400×400mm



Spindles



Collecting data and analysis software;

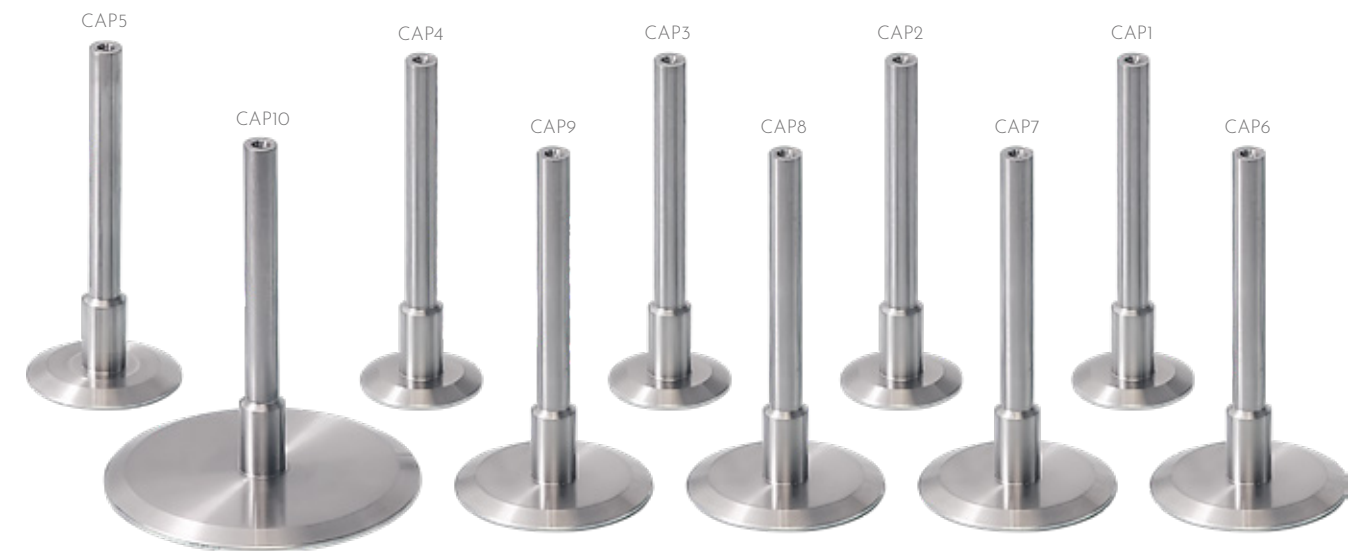
SNB software

DV software

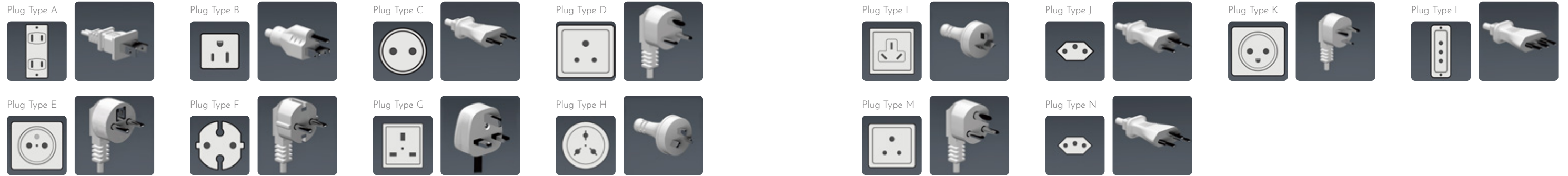
Temperature-controlled heater

Ultra-low viscosity adapter (with one spindle LO);

Small sample adapter (with spindle 21, 27, 28 and 29 each);



WORLD PLUGS - Plugs & Socket



Locations Using			
Region	Voltage	Hertz	Plug Type
Afghanistan	220V	50Hz	C, F
Albania	230V	50Hz	C, F
Algeria	230V	50Hz	C, F
American Samoa	120V	60Hz	A, B, F, I
Andorra	230V	50Hz	C, F
Angola	220V	50Hz	C
Anguilla	110V	60Hz	A
Antigua and Barbuda	230V	60Hz	A, B
Argentina	220V	50Hz	C, I
Armenia	230V	50Hz	C, F
Aruba	127V	60Hz	A, B, F
Australia	230V	50Hz	I
Austria	230V	50Hz	C, F
Azerbaijan	220V	50Hz	C, F
Bahamas	120V	60Hz	A, B
Bahrain	230V	50Hz	G
Bangladesh	220V	50Hz	C, D, G, K
Barbados	115V	50Hz	A, B
Belarus	220V	50Hz	C, F
Belgium	230V	50Hz	C, E
Belize	110V 220V	60Hz	A, B, G
Benin	220V	50Hz	C, E
Bermuda	120V	60Hz	A, B
Bhutan	230V	50Hz	C, D, F, G, M
Bolivia	115V 230V	50Hz	A, C
Bosnia and Herzegovina	230V	50Hz	C, F
Botswana	230V	50Hz	D, G, M
Brazil	127V 220V	60Hz	C, N
British Virgin Islands	110V	60Hz	A, B
Brunei Darussalam	240V	50Hz	G
Bulgaria	230V	50Hz	C, F
Burkina Faso	220V	50Hz	C, E
Burundi	220V	50Hz	C, E
Cambodia	230V	50Hz	A, C, G
Cameroon	220V	50Hz	C, E
Canada	120V	60Hz	A, B
Cape Verde	220V	50Hz	C, F
Cayman Islands	120V	60Hz	A, B
Central African Republic	220V	50Hz	C, E
Chad	220V	50Hz	C, D, E, F
Chile	220V	50Hz	C, L
China	220V	50Hz	A, C, I
Colombia	110V	60Hz	A, B
Comoros	220V	50Hz	C, E
Congo	230V	50Hz	C, E
Congo (Democratic Rep.of)	220V	50Hz	C, D, E
Cook Islands	240V	50Hz	I
Costa Rica	120V	60Hz	A, B
Cote d'Ivoire	230V	50Hz	C, E
Croatia	230V	50Hz	C, F
Cuba	110V	60Hz	A, B
Cyprus	240V	50Hz	G
Czech Republic	230V	50Hz	C, E
Denmark	230V	50Hz	C, F, E, K
Djibouti	220V	50Hz	C, E

Locations Using			
Region	Voltage	Hertz	Plug Type
Dominica	230V	50Hz	D, G
Dominican Republic	110V	60Hz	A, B
Ecuador	120V	60Hz	A, B
Egypt	220V	50Hz	C, F
El Salvador	115V	60Hz	A, B
Equatorial Guinea	220V	50Hz	C, E
Eritrea	230V	50Hz	C, L
Estonia	230V	50Hz	C, F
Ethiopia	220V	50Hz	C, E, F, L
Falkland Islands (Malvinas)	240V	50Hz	G
Faroe Islands	230V	50Hz	C, F, E, K
Fiji	240V	50Hz	I
Finland	230V	50Hz	C, F
France	230V	50Hz	C, E
French Guiana	220V	50Hz	C, D, E
Gabon	220V	50Hz	C
Gambia	230V	50Hz	G
Georgia	220V	50Hz	C, F
Germany	230V	50Hz	C, F
Ghana	230V	50Hz	D, G
Gibraltar	240V	50Hz	C, G
Greece	230V	50Hz	C, F
Greenland	230V	50Hz	C, F, E, K
Grenada	230V	50Hz	G
Guadeloupe	230V	50Hz	C, D, E
Guam	110V	60Hz	A, B
Guatemala	120V	60Hz	A, B
Guinea	220V	50Hz	C, F, K
Guinea Bissau	220V	50Hz	C
Guyana	240V	60Hz	A, B, D, G
Haiti	110V	60Hz	A, B
Honduras	110V	60Hz	A, B
Hungary	230V	50Hz	C, F
Iceland	230V	50Hz	C, F
India	230V	50Hz	C, D, M
Indonesia	220V 110V	50Hz	C, F
Iran	220V	50Hz	C, F
Iraq	230V	50Hz	C, D, G
Ireland	230V	50Hz	C, F
Isle of Man	240V	50Hz	C, G
Israel	230V	50Hz	C, H, M
Italy	230V	50Hz	C, F, L
Jamaica	110V	50Hz	A, B
Japan	100V	50Hz, 60Hz	A, B
Jordan	230V	50Hz	B, C, D, F, G, J
Kazakhstan	220V	50Hz	C, F
Kenya	240V	50Hz	G
Kiribati	240V	50Hz	I
Korea, Democratic People's Republic of	220V 110V	50Hz, 60Hz	A, C, F
Korea Republic of	220V	60Hz	C, F
Kuwait	240V	50Hz	C, G, M
Kyrgyzstan	220V	50Hz	C, F
Lao People's Democratic Republic	230V	50Hz	A, B, C, E, F

Locations Using			
Region	Voltage	Hertz	Plug Type
Latvia	230V	50Hz	C, F
Lebanon	220V	50Hz	A, B, C, D, G
Lesotho	220V	50Hz	M
Liberia	120V 220V	50Hz, 60Hz	A, B, C, E, F
Libya	127V 230V	50Hz	C, D, F, L
Liechtenstein	230V	50Hz	C, J
Lithuania	220V	50Hz	C, F
Luxembourg	230V	50Hz	C, F
Macau	220V	50Hz	D, M, G, F
Macedonia	230V	50Hz	C, F
Madagascar	127V 220V	50Hz	C, D, E, J, K
Malawi	230V	50Hz	G
Malaysia	240V	50Hz	A, C, G, M
Maldives	230V	50Hz	A, C, D, G, J, K, L
Mali	220V	50Hz	C, E
Malta	230V	50Hz	G
Martinique	220V	50Hz	C, D, E
Mauritania	220V	50Hz	C
Mauritius	230V	50Hz	C, G
Mexico	127V	60Hz	A, B
Micronesia, Federated States of	120V	60Hz	A, B
Moldova	220V	50Hz	C, F
Monaco	230V	50Hz	C, D, E, F
Mongolia	220V	50Hz	C, E
Montenegro	230V	50Hz	C, F
Montserrat	230V	60Hz	A, B
Morocco	127V 220V	50Hz	C, E
Mozambique	220V	50Hz	C, F, M
Myanmar	230V	50Hz	C, D, F, G
Namibia	220V	50Hz	D, M
Nauru	240V	50Hz	I
Nepal	230V	50Hz	C, D, M
Netherlands	230V	50Hz	C, F
Netherlands Antilles	127V 220V	50Hz	A, B, C, F
New Caledonia	220V	50Hz	C, F
New Zealand	230V	50Hz	I
Nicaragua	120V	60Hz	A, B
Niger	220V	50Hz	A, B, C, D, E, F
Nigeria	230V	50Hz	D, G
Norway	230V	50Hz	C, F
Oman	240V	50Hz	C, G
Pakistan	230V	50Hz	C, D, G, M
Palau	120V	60Hz	A, B
Panama	110V	60Hz	A, B
Papua New Guinea	240V	50Hz	I
Paraguay	220V	50Hz	C
Peru	220V	60Hz	A, B, C
Philippines, Rep. of the	220V	60Hz	A, B, C
Poland	230V	50Hz	C, E
Portugal	230V	50Hz	C, F
Puerto Rico	120V	60Hz	A, B
Qatar	240V	50Hz	D, G
Reunion	220V	50Hz	E
Romania	230V	50Hz	C, F

Locations Using			
Region	Voltage	Hertz	Plug Type
Russia	220V	50Hz	C, F
Rwanda	230V	50Hz	C, J
Saint Kitts and Nevis	230V	60Hz	A, B, D, G
Saint Lucia	240V	50Hz	G
Saint Martin	120V 220V	60Hz	C, F
Saint Vincent and the Grenadines	230V	50Hz	A, C, E, G, I, K
Samoa	230V	50Hz	I
San Marino	230V	50Hz	C, F, L
Sao Tome and Principe	220V	50Hz	C, F
Saudi Arabia	220V 230V	60Hz	G
Senegal	230V	50Hz	C, D, E, K
Serbia	230V	50Hz	C, F
Seychelles	240V	50Hz	G
Sierra Leone	230V	50Hz	D, G
Singapore	230V	50Hz	C, G, M
Slovakia	230V	50Hz	C, E
Slovenia	230V	50Hz	C, F
Solomon Islands	220V	50Hz	I, G
Somalia	220V	50Hz	C
South Africa	230V	50Hz	C, D, E, M, N
Spain	230V	50Hz	C, F
Sri Lanka	230V	50Hz	D, M, G
Sudan	230V	50Hz	C, D
Suriname	127V	60Hz	C, F
Swaziland	230V	50Hz	M
Sweden	230V	50Hz	C, F
Switzerland	230V	50Hz	C, J
Syrian Arab Republic	220V	50Hz	C, E, L
Tajikistan	220V	50Hz	C, F, I
Tanzania	230V	50Hz	D, G
Thailand	220V	50Hz	A, B, C, F
Timor-Leste	220V	50Hz	C, E, F, I
Togo	220V	50Hz	C
Tonga	240V	50Hz	I
Trinidad and Tobago	115V	60Hz	A, B
Tunisia	230V	50Hz	C, E
Turkey	220V	50Hz	C, F
Turkmenistan	220V	50Hz	B, C, F
Turks and Caicos Islands	120V	60Hz	A, B
Tuvalu	220V	50Hz	I
Uganda	240V	50Hz	G
Ukraine	220V	50Hz	C, F
United Arab Emirates	230V	50Hz	D, G
United Kingdom	230V	50Hz	G
United States of America	120V	60Hz	A, B
United States Virgin Islands	110V	60Hz	A, B
Uruguay	230V	50Hz	C, F, I, L
Uzbekistan	220V	50Hz	C, I
Vanuatu	220V	50Hz	C, G, I
Venezuela	120V	60Hz	A, B
Vietnam	220V	50Hz	A, C, F
Yemen	230V	50Hz	A, D, G
Zambia	230V	50Hz	C, D, G
Zimbabwe	220V	50Hz	D, G