



NTE20S Miniature Motorized Ball Valve



Features:

- Mini dimension suits for small equipment
- Patented technology--floating seal struct
- Long service life —70000 100000 circles
- Low working current, suitable for battery
- Manual override is safe and convenient
- IP67 Enclosure

Applications:

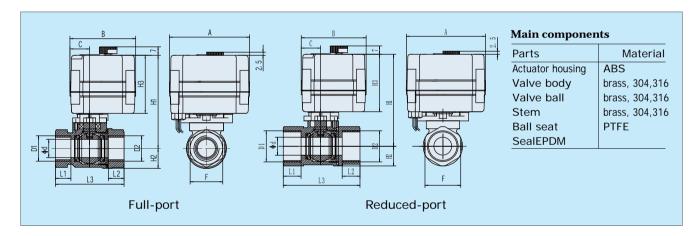
- O HVAC
- Water treatment
- O Chemical process
- Small equipment for automatic control
- Replacing solenoid valve, particularly when solenoid cannot work reliably

unit: mm

Technical Parameters:

Series	Max Torque	Operating time	Working voltage	Max power	Enclosure	Max pressure	Medium temperature	Ambient temperature	Humidity	
			5V	3W					<95%	
NTE20S	2N.M	5-7S	12V,24V	4W	IP67	1.0Mpa	0-100	-20 <t<45< td=""></t<45<>		
			110V,220V	5W						

Dimension:



Full port ball valve connection size

DN	D1/D2	d	L1/L2	L3	F	А	В	С	НЗ	H2	H1	W(kg)
DN8	G1/4"	8	11	43	17	66.5	54.5	16.3	48	11	74	0.26
DN15	G1/2"	15	13	57	27	66.5	54.5	16.3	48	16.5	77	0.37
DN20	G3/4"	20	16	70	32	66.5	54.5	16.3	48	21.5	81	0.52

Reduced port ball valve connection size

unit: mm L1/L2 DN D1/D2 d L3 F В С Н3 H2 H1 W(kg) Α DN20 G3/4 15 15 64.5 30 66.5 54.5 16.3 48 16.5 77 0.37 DN25 G1" 20 18 76 38 66.5 54.5 16.3 48 21.5 0.52



Instructions for Manual override:

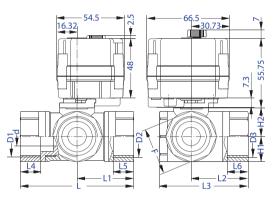
- O It is only permitted to use when power is cut.
- © Lift the hand-wheel, and turn it left or right until the valve is in place.
- When the black line on the indicator is horizontal, the valve is on; when vertical, the valve is off.
- Press down hand-wheel after using manual override in order to work properly when power is su -pplied.



NTE-20S Miniature Electric Actuated Ball Valve



Horizontal type 3-way



NTE-20S Horizontal type 3-way Ball Valve

Horizontal type 3-way

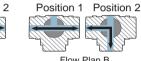
Unit:mm

DN	d	D1/D2/D3	L1/L2	L ₃	L4/L5/L6	L	H1	H2	F	W(Kg)
*DN8	6	G1/4"	25	38.5	11.5	50	11	18.25	17	0.26
DN10	8	G3/8"	27.5	44	13	55	13	19.25	20	0.31
DN15	12	G1/2"	33.5	54.5	15	67	17	21.25	27	0.37
DN20	15	G3/4"	38.5	64	15	77	20.3	23.25	31	0.52
DN25	15	G1"	47	72.5	18	94	20.3	23.25	38	0.84

Note: * Means valves only available to brass material.

Horizontal type 3-way T-bore

Position 1 Position 2



Flow Plan B

Position 1 Position 2

Position 1 Position 2

Flow Plan A



Position 1 Position 2

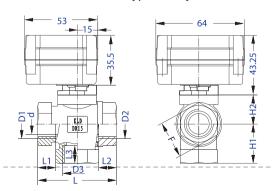
Flow Plan C

Flow Plan

Horizontal type 3-way L-bore



Vertical type 3-way



NTE-20S Vertical type 3-way Ball Valve

Vertical type 3-way

Dimensions

Unit:mm

DN	d	D1/D2/D3	L1/L2/L3	L	H1	H2	F	W(Kg)
DN15	13	G1/2"	13	57	28.5	21.25	27	0.40
DN20	18	G3/4"	16	70	37	25.75	32	0.50
DN25	18	G1"	18	76	44	25.75	38	0.60

Vertical type single L-90 ° type

Position 1 Position 2



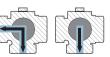
Flow Plan A

Vertical type Double L-90 ° type



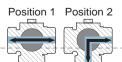
Flow Plan A

Position 1 Position 2



Flow Plan B

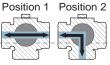
Vertical type simple type



Flow Plan A

Position 1 Position 2

Flow Plan C(180 ° turn)



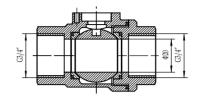
Flow Plan B





2-Way Brass Full Port Ball Valve (1/4" tol-1/4")





3/4" full port

3/4" full port

Valve Specifications

*10 Sizes: 1/4"—1-1/4"

*2 Threading: BSP, NPT(female)

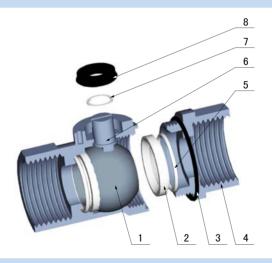
Working pressure: 1.0Mpa

Max pressure: 1.6Mpa

⊚ Medium temperature: -20°C... +100°C

*3◎ Service:cold or hot water, etc

Exploded view:



Components:

NO.	Description	Material	Quantity
1	Valve Ball	Stainless steel (201)/Brass with chrome plating	1
2	Ball Seat	PTFE(Teflon)	2
3	O-ring no.1	NBR	1
4	Valve Body	Brass with nickel plating	1
5	O-ring no.2	Silicon rubber	2
6	Stem	Brass	1
7	Stem Seat no.1	PTFE	1
*4 8	Stem Seat no.2	EPDM	1

 $[\]pm 1$ 1/4"—3/4" can match NTE20S Series actuator. 1"—1-1/4" can match NTE100 Series actuator.

^{*2} NPT belongs to customization.

^{*4} For differen medium, manufacturer will change seal material. For example, specaial seal will be used for drinking water or oil.(FPM、NBR、silicon-rubber is optical)





NTE 20S Motorized Valve Especially for Ozone Sterilizer and CIOS Generator



Features:

- CPVC+FPM, excellent in resisting corrosion
- Mini dimension suits for small equipment
- Patented technology—floating seal structure
- © Long service life—70000 cycles
- O Low working current
- IP67 and F type are available

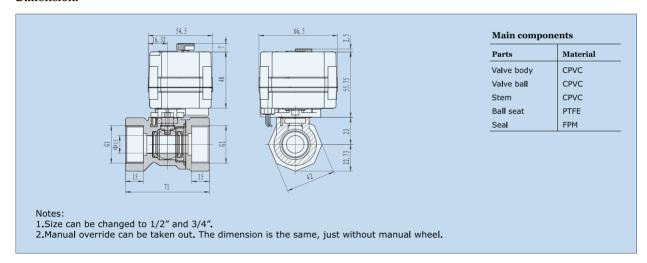
Applications:

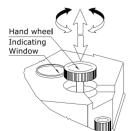
- Used for corrosive medium such as acid and alkali, etc
- Replacing solenoid vale, particularly whe -n solenoid valve cannot work reliably
- © Environment, water treatment system
- Small industrial automation equipment
- © Excellent in ClO₂, O₃ system

Technical Parameters:

Series	Working voltage		Manual override	Max Torque	Operating time	Static o	current 25V)	Encl	osure	Max pressure	Medium temperature	Ambient temperature	Humidity
	DC5V,AC/DC12V	3W				IP67	F type						
NTE20S	AC/DC24V	4W	available	2N.M	5-7S	0-15mA	<65mA	65mA IP67	F type	1.0Mpa	0-90℃	-20°C <t<45°c< td=""><td><95%</td></t<45°c<>	<95%
	AC95-265V	5W											

Dimension:





Instructions for Manual override:

- © Lift the hand-wheel, and turn it left or right until the valve is in place.
- $\ \odot$ When the black line on the indicator is horizontal, the valve is on; when vertical, the valve is off.
- © Press down hand-wheel after using manual override in order to work properly when power is su-pplied.

Wring:

B2, B3 and BD3 are available. We can accept feedback customization. Please contact sales for more details.

- The service life is the testing data in the condition of 1.0Mpa, 200L/h, tap water as working medium. Different working occasions will influence the service life.
- Manual shaft and hand-wheel will be replaced by another upper cover if manual override function is not needed.
- $\ensuremath{\mathbb{O}}$ Actuators are not direct-mount-on. Actuators are not recommended to be sold separately.

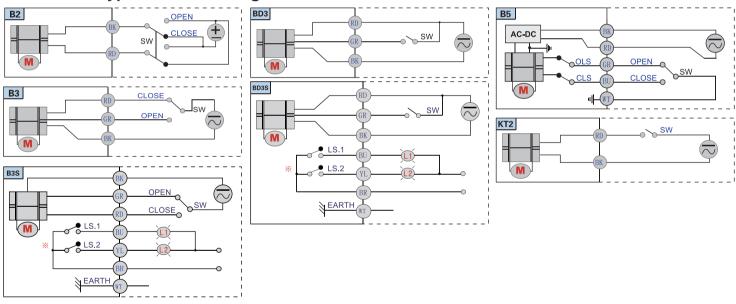


NTE20S Purchase Guide

Product Guide

	0:		,	Voltage(Po	ower Supp	ly) vs Con	trol Type			Th	read Typ	е	Bore	Size
Material	Size	5 VDC	12 VAC	12 VDC	24 VAC	24 VDC	110 VAC	110 VDC	95-265 VAC	BSPP	BSPT	NPT	Full Bore	Reduced Bore
	DN8(1/4")					B3 B5 BD3 KT2		B3 B5 BD3 KT2		Х	X	Х	√	X
Brass	DN15(1/2")				B3 B5 BD3 KT2					√	V	√	√	√
Biaco	DN20(3/4")			B2 B5 BD3 KT2			B3 B5 BD3 KT2			√	√	√	√	√
	DN25(1")		D.5						D0	√	V	Х	Х	√
	DN8(1/4")	B2 B3	B5 BD3 KT2						B3 - B5 - BD3 - KT2 _	Х	Х	Х	Х	Х
304SS	DN15(1/2")	BD3								√	Х	√	√	√
30433	DN20(3/4")	- 603								√	Х	√	√	√
	DN25(1")									√	Х	√	Х	√
	DN8(1/4")									√	Х	Х	√	√
316SS	DN15(1/2")									√	X	√	√	√
31033	DN20(3/4")									√	Х	√	√	√
	DN25(1")									√	Х	V	Х	V

The Control Type as the following:



Order Information	Basic Model	Size	Material	Voltage	Control Type
	NTE-20S	DN8	304SS	24VDC	B5

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