



DIENTE WATER PURIFICATION TECHNOLOGY



COMPANY PROFILES

DIENTE WATER PURIFICATION TECHNOLOGY CO., LTD (DNTFIT) was founded in Baixiang , Zhejiang in 2005 . It is a professional water purification equipment design and manufacturing plant which supplying various spare parts like quick connectors, fittings, check valves, low&high pressure switches, solenoid valves and pressure reducing valves.


Since its establishment, DNTFIT has committed itself to provide most cost effective spare parts in RO water system with best quality . We boast of our excellent fundamental condition as we consisted with more than 200 man powers in production and an army of technicians for new products development . Considering the products consistency as well as production efficiency , we highly relied on automation in production , lab test and quality inspection . Due to our lasting developing and promotion , DNTFIT has been working together with customers both domestic and abroad in North America , Europe , Asia and Africa;also strengthened by the prestigious ISO 9001:2008 certification and by many other specific standard like CE proved DNTFIT as a qualified international fitting manufacturer .

DNTFIT will work hard to create solutions that improve quality of life for people around the world by producing green and safe spare parts in water purification industry ; Meanwhile,we will continue to carry out our target to be a global connector leader in this industry.


Your satisfaction,our pursuit.

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VALVE

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QUICK FITTINGS

Products are made by safe, non-toxic materials meeting the requirements of BS , WRAS, FDA and NSF . DNT ' s products are widely used in water purification , beverage & food system and pneumatic system.

FUNCTION

The Fittings we made are easy and convenient for assembly which save both time and expense. The extraordinary design & shape is superior and practical in field application.

QUALITY

Based on ISO9001 registered quality system , DNT ensure our customer will be offered with superior quick connectors.

Application

Beyond water and food application, connectors could be used with air and liquids . And all connections can be assembled and disassembled repeatedly.



Elbow Union



Part No.	Tube O.D.	Tube O.D.
PV0202	1 / 4	1 / 4
PV0303	3 / 8	3 / 8
PV0203	1 / 4	3 / 8

Union Connector



Part No.	Tube O.D.	Tube O.D.
PU0202	1 / 4	1 / 4
PU0303	3 / 8	3 / 8
PU0203	1 / 4	3 / 8

Bulk Head



Part No.	Tube O.D.	Tube O.D.
PUM0202	1 / 4	1 / 4

Flow Restrictor



Part No.	Tube O.D.	Flow
FR300	1 / 4	300cc
FR450	1 / 4	450cc
FR1000	1 / 4	1000cc

Male Elbow



Part No.	Tube O.D.	Thread
PL0201	1 / 4	1 / 8
PL0202	1 / 4	1 / 4
PL0203	1 / 4	3 / 8
PL0204	1 / 4	1 / 2
PL0301	3 / 8	1 / 8
PL0302	3 / 8	1 / 4
PL0303	3 / 8	3 / 8
PL0304	3 / 8	1 / 2

Female Adapter



Part No.	Tube O.D.	Thread (F)
PCF0201	1 / 4	1 / 8
PCF0202	1 / 4	1 / 4
PCF0203	1 / 4	3 / 8
PCF0204	1 / 4	1 / 2
PCF0301	3 / 8	1 / 8
PCF0302	3 / 8	1 / 4
PCF0303	3 / 8	3 / 8
PCF0304	3 / 8	1 / 2

Female Elbow



Part No.	Tube O.D.	Thread (F)
PLF0204	1 / 4	1 / 2
PLF0304	3 / 8	1 / 2

Sunction Head



Part No.	Tube O.D.
ZXT-02	1 / 4
ZXT-03	3 / 8

Two Way Divider



Part No.	Tube O.D.	Tube O.D.	Tube O.D.
PY020202	1 / 4	1 / 4	1 / 4
PY030303	3 / 8	3 / 8	3 / 8
PY030202	3 / 8	1 / 4	1 / 4

Bulkhead Union



Part No.	Tube O.D.	Tube O.D.
PM0202	1 / 4	1 / 4
PM0303	3 / 8	3 / 8
PM0203	1 / 4	3 / 8

Male Branch Tee



Part No.	Tube O.D.	Tube O.D.	Thread
PB020202	1 / 4	1 / 4	1 / 4
PB030303	3 / 8	3 / 8	3 / 8
PB020203	1 / 4	1 / 4	3 / 8
PB020302	1 / 4	3 / 8	1 / 4
PB020303	1 / 4	3 / 8	3 / 8
PB030302	3 / 8	3 / 8	1 / 4

Union Tee



Part No.	Tube O.D.	Tube O.D.	Tube O.D.
PE020202	1 / 4	1 / 4	1 / 4
PE030303	3 / 8	3 / 8	3 / 8
PE020302	1 / 4	3 / 8	1 / 4
PE020303	1 / 4	3 / 8	3 / 8
PE020203	1 / 4	1 / 4	3 / 8
PE030203	3 / 8	1 / 4	3 / 8

Male Connector



Part No.	Tube O.D.	Thread
PC0201	1 / 4	1 / 8
PC0202	1 / 4	1 / 4
PC0203	1 / 4	3 / 8
PC0204	1 / 4	1 / 2
PC0301	3 / 8	1 / 8
PC0302	3 / 8	1 / 4
PC0303	3 / 8	3 / 8
PC0304	3 / 8	1 / 2

Male Tee Union



Part No.	Tube O.D.	Tube O.D.	Thread
PD020202	1 / 4	1 / 4	1 / 4
PD020203	1 / 4	1 / 4	3 / 8
PD020302	1 / 4	3 / 8	1 / 4
PD020303	1 / 4	3 / 8	3 / 8
PD030302	3 / 8	3 / 8	1 / 4

Elbow Stem Union



Part No.	Tube O.D.	Stem O.D.
PLT0202	1 / 4	1 / 4
PLT0203	1 / 4	3 / 8
PLT0303	3 / 8	3 / 8
PLT0302	3 / 8	1 / 4

Nipple



Part No.	Thread	Thread
M44	1 / 2	1 / 2
M22	1 / 4	1 / 4
M42	1 / 2	1 / 4

Main Stem Tee



Part No.	Tube O.D.	Tube O.D.	Stem O.D.
PBT020202	1 / 4	1 / 4	1 / 4
PBT030303	3 / 8	3 / 8	3 / 8

Elbow Stem



Part No.	Tube O.D.	Stem O.D.
PAT0202	1 / 4	1 / 4

Stem T Union



Part No.	Tube O.D.	Tube O.D.	Stem O.D.
PDT020202	1 / 4	1 / 4	1 / 4

HAND VALVES

PA series hand valve is made of food grade POM which could satisfy the NSF and FDA requirements. It could be complied with a variety of chemicals & gases. These hand valves boast of flexible quarter-turn operation for opening and closing. Its rugged design make them for long term durability.

Working Pressure And Temperature

	Temperature	Pressure
Air	-20°C	10bar
Air / liquid	1°C	10bar
	20°C	10bar
	65°C	7bar

Hand Valve Female Adapter



Part No.	Tube O.D.	Thread (F)
PAN0202	1 / 4	1 / 4
PAN0303	3 / 8	3 / 8
PAN0203	1 / 4	3 / 8
PAN0302	3 / 8	1 / 4

Hand Valve Union Adapter



Part No.	Tube O.D.	Tube O.D.
PA0202	1 / 4	1 / 4
PA0303	3 / 8	3 / 8

Three Way Hand Valve



Part No.	Tube O.D.	Thread	Thread (F)
PAST020404	1 / 4	1 / 2	1 / 2
PAST030404	3 / 8	1 / 2	1 / 2
PAST020303	1 / 4	3 / 8	3 / 8
PAST030303	3 / 8	3 / 8	3 / 8

Hand Valve Adapter



Part No.	Tube O.D.	Thread
PAW0202	1 / 4	1 / 4
PAW0303	3 / 8	3 / 8

CHECK VALVES


Check valve series is made of food grade POM which could satisfy the NSF and FDA requirements. The structure of these check valves are mainly shaped in “straight” and “L” type in consideration of space constraints. By equipping with accurate brass valve spool DNT’s check valve showed more reliability without noise and vibration in work .

Working Pressure And Temperature


Pressure	10bar	5bar
Temperature	1°C (35°F) -20°C(70°F)	65°C (150°F)




Elbow Check Valve

	Part No.	Tube O.D.	Thread
	PLNZ0201	1 / 4	1 / 8
	PLNZ0202	1 / 4	1 / 4

Check Valve

	Part No.	Tube O.D.	Tube O.D.
	PVNZ0202	1 / 4	1 / 4

Check Elbow Valve

	Part No.	Tube O.D.	Tube O.D.
	PUNZ0202	1 / 4	1 / 4
	PUNZ0303	3 / 8	3 / 8

AUTO SHUTOFF VALVE



Auto shut off valve is mainly used to control the inlet and outlet water for RO purifier . Under the status of high pressure , the valve could work without electricity due to its special design. It is made of food grade POM which could satisfy NSF and FDA requirements.

Product	Auto Shutoff Valve	Model	SMF-02
Fitting	1/4" Quick Connection	Working Temp	5°C~45°C
Burst Pressure	≥32bar	Material	POM

NEEDLE VALVE



Needle valve is fine tuning valve which could control the water flow accurately . It is made of food grade POM which could satisfy NSF and FDA requirements.

Product	Needle Valve	Model	NSF-02
Fitting	1/4" Quick Connection	Working Temp	5°C~45°C
Burst Pressure	≥32bar	Material	POM

PRESSURE REDUCERS



JYF series pressure reducer is mainly used for reducing the pressure and protect water purifier . The unique design make them widely used in various water dispensers, RO water purifier , pipe line machine and coffee machines. With preset pressure 2.5-3bar, these reducer could eliminate all kinds of water hammer and sudden high pressure.

Product	Pressure Reducer	Material	POM
Fitting	1/4" Quick Connection	Model	JYF-01
Maximum Working Pressure	≥1.2Mpa		
Working Temp	5°C~45°C		
Burst Pressure	≥3.2Mpa		



Product	Pressure Reducer	Material	POM
Fitting	1/4" Quick Connection	Model	JYF-02
Maximum Working Pressure	≥1.2Mpa		
Working Temp	5°C~45°C		
Burst Pressure	≥3.2Mpa		

HIGH PRESSURE SWITCHES



Water purifier pressure switch DNT-PS series pressure switches which we named as HP001 high pressure switch and LP001 low pressure switch are mainly designed for protection of water purifier. HP001 is a high pressure switch which will cut off the circuit when the pressure in the water tank reach to switch setting point in order to stop the RO pump working.

PARAMETER

MODEL	HP001
Medium	Water
Pressure Range	Cut off pressure: 0.25MPa±0.05MPa Cut in pressure: 0.15MPa±0.05MPa
Proof Pressure	2.5Mpa
Life Circles	>100,000 times
Work Temp	5~45°C
Switch Design	Micro switch normally close
Electrical Parameter	Voltage 250VAC Current 16A
Terminal	Blade 4.8*0.8mm
Fitting	1/4" Quick connector
Diaphragm	EPDM

LOW PRESSURE SWITCHES



Water purifier pressure switch DNT-PS series pressure switches which we named as HP001 high pressure switch and LP001 low pressure switch are mainly designed for protection of water purifier. LP001 is a low pressure switch which will cut off the circuit when the pressure in the water inlet tube lower to switch setting point in order to stop the RO pump . By stopping the RO pump, the pressure switch offer a protection to the water purifier . After the pressure back to switch setting point , the switch will cut in and let the RO pump back to work.

PARAMETER

MODEL	LP001
Medium	Water
Pressure Range	Cut off pressure: 0.025MPa±0.005MPa Cut in pressure: 0.025MPa±0.005MPa
Proof Pressure	2.5Mpa
Life Circles	>100,000 times
Work Temp	5~45°C
Switch Design	Micro switch normally open
Electrical Parameter	Voltage 250VAC Current 16A
Terminal	Blade 4.8*0.8mm
Fitting	1/4" Quick connector
Diaphragm	EPDM

SOLENOID VALVES



DNT-DCF01

DCF01 is a inlet water solenoid valve mainly designed for RO purifier , water dispenser and coffee machine . Thanks to its unique design and structure , this solenoid valve perform superior in anti - blockage and anti - leakage in water industry .

PARAMETERS

Rated Voltage	DC12V	DC24V	AC220V 50Hz
Working Voltage	DC12V±10%	DC24V±10%	AC220V±10% 50Hz
Water Pressure Range	0.02-0.8MPa		
Medium Temp	0-80°C		
Life Circle	≥100,000 times		
Terminal	6.3*0.8mm blade		
Fitting	1/4 quick connector		
Pressure(mpa)	0.02	0.1	0.8
Flow(L/min)	>2.5	>3	13-20

SOLENOID VALVES



DNT-DCF02

DCF02 is a water water solenoid valve mainly designed for domestic and commercial RO purifiers . Thanks to its unique design and structure , this solenoid valve perform superior in anti-blockage and anti-leakage in water industry .

PARAMETERS

Rated Voltage	DC12V	DC24V	AC220V 50Hz
Working Voltage	DC12V±10%	DC24V±10%	AC220V±10% 50Hz
Life Circle	≥100,000 times		

FLOW

Pressure	0.5 MPa
Terminal	6.3*0.8mm blade
Fitting	1/4 quick connector
FR(cc/min)	100,200,300,400,500,600,800,900,1100,1300,1500,1800,2000cc

*** Other flow rate is available depend on customer's need.**

Fitting Material

POM: Also called as acetal, is a durable material with advantage of anti-bending and antifatigue effect. On the other hand, this material could resist most organic chemicals and inorganic compounds, however, this material is not recommended to work in strong acid or exposure to strong oxidant condition.

Feature

Physical form: Solid or particles Melting point: 165°C

Atmospheric pressure: <0.001mmHg>

Incompatibility: Strong acid and oxidant. Do not mix with any PVC like material.

PP: This material boasts of its strong chemical resistance quality, strong tolerance in oxidant and cold resistance quality.

Product Feature

Products are made by safe, non-toxic materials meeting the requirements of BS, WRAS, FDA and NSF. DNT's products are widely used in water purification, beverage & food system and pneumatic system.

Quality

Based on ISO9001 registered quality system, DNT ensure our customer will be offered with superior quick connectors.

Application

Beyond water and food application, connectors could be used with air and liquids.

And all connections can be assembled and disassembled repeatedly.

Fittings Working Pressure & temperature

Size	1/4"	3/8"					
	10mm	12mm	15mm	20mm	22mm	25mm	32mm
- 20°C (- 4°F)	230Psi			170Psi			
1°C (34°F)	230Psi			170Psi			
20°C (68°F)	230Psi			170Psi			
65°C (149°F)	150Psi			100Psi			

★ Any working temperature and pressure out of this range please contact with DNTFIT

Tube Tolerance Range

Size	Tolerance
1/4"	±0.002" (±0.05mm)
3/8"	
10mm	+0.002" (+0.05mm) -0.004" (-0.05mm)
12mm	
15mm	
20mm	
22mm	
25mm	
32mm	

Allowable Torque

Thread		Torque	1/4", 3/8"		10MM, 12MM, 15MM		20MM, 25MM, 32MM	
Plastic	Maximum Torque	(N.m)	1.5		3.0		4.0	
Steel	Maximum Torque	(N.m)	7.9-9.0	12.0-14.0	22.0-24.0	28.0-30	40.0	

TECHNICAL INFORMATION

1	Products are recommended for use in water or food&beverage system.Any products maybe used in other conditions,kindly contact with DNT for advice.
2	Using appropriate force when connect tubes to the fittings,any over-stress rotation , twist or bend would possibly damage the fittings and cause malfunction , leak , or failure which voids the product warranty.
3	The working temperature of the products should not exceed 65°C (150°F) which may cause malfunction of the products.
4	Before connecting tube, verify that the end of the tube has been cut squarely and without no scratches on the tube surface.
5	After assembling a tube connection, pull with moderate force to check for proper gripping of the tube.
6	When tightening threaded fittings,use care not to over-torque the fitting as this may damage the fitting and cause a leak or other failure.
7	Before making any tube connection , verify that the end of the tube has been cut squarely and there are no scratches on the tube O.D within 30mm of the end.
8	When making a tube connection, occasional gripping of the tube may occur just as the tube begins to pass through the o-ring , although the seal is not yet made. In this case , push the tube deeply once more to complete assembly of the connection . Incomplete seat the tube into the fitting may cause leakage.
9	When tightening threaded fittings,use care not to over-torque the fitting as this may damage the fitting and cause a leak or other failure.
10	Pipe dope or other liquid thread sealers is not compatible with connectors . Use only Teflon tape to seal threaded connections.



DNTFIT[®]
Exceeding the Expectation

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