



SPARK
FILTRATION MIDDLE EAST

SPARK Filtration Middle East FZC

A large circular graphic with an orange center containing the text 'Product Catalogue'. The circle is surrounded by four images: a person in a raft on a river, an aerial view of a water treatment plant, a swimming pool with blue equipment, and an industrial water filtration facility.

Product
Catalogue



SPARK - Spares (RO Pressure Vessels)



HEAD ASSEMBLY

Type – SidePort/EndPort
Pressure Rating – 300, 450, 600, 1000 & 1200 PSI



BEARING PLATE

Type – SidePort/EndPort
Pressure Rating – 300, 450, 600, 1000 & 1200 PSI
MOC – 6061-T6 As per SB-221



PORT NUT

MOC – Engineering Thermoplastic
Thread Connection – Left Hand Thread



FEED/CONC PORT (FC Port)

Type – EndPort
Pressure Rating – 300, 450, 600, 1000 & 1200 PSI
MOC – SS304, SS316, SS316L, Duplex, Super Duplex



PORT RETAINER SET
MOC – SS316 – Two piece set



RETAINING RING
Type – Three turn finger pull
MOC – SS316



LOCKING SEGMENT
MOC – SS316



PWT SEAL



FC PORT



ADAPTOR SEAL



SADDLE
MOC - Engineering Thermoplastic



SPACERS



STRAP ASSEMBLY
MOC - SS316 with PVC cushion
BOLT - SS316 - M8/100



HEAD SEAL



ADAPTER SET
MOC - Engineering Thermoplastic
With Adapter Seal, PWT Seal & Spacers



THRUST RING / CONE
MOC - Engineering Thermoplastic



MEMBRANE INTERCONNECTOR
MOC - Engineering Thermoplastic
With Connector Seal



BRINE SEAL
MOC - Ethylene Propylene (EPDM)



SEALING PLATE

Type – SidePort/EndPort
Pressure Rating – 300, 450, 600, 1000 & 1200 PSI
MOC – Engineering Thermoplastic



PERMEATE PORT

Pressure Rating – 300, 450, 600, 1000 & 1200 PSI
MOC – Engineering Thermoplastic
Thread Connection – 1" NPT Female



Microfiltration products by SPARK

Introduction

Spark Filtration specializes in providing high-quality, cost-competitive filtration solutions, including filter cartridges and housings.

We focus on understanding our customers' specific needs and challenges. By applying our knowledge, expertise, and technology, we develop high-performance solutions that precisely meet their requirements.

Spark Filtration is your one-stop solution for all filtration needs. We manufacture a comprehensive range of products, including various filter cartridges, filter housings, and filters optimized for high-flow applications.



SPARK - NTECH NT FILMS (RO Membranes)

NT FILM™ RO & NF Membranes

Founded in Changzhou in 2016, N-TECH is a leading enterprise led by four listed companies, specializing in high-performance water treatment RO membranes. We integrate design, R&D, production, sales, and service, possessing core membrane manufacturing technology and robust system design capabilities.

NT FILM Brackish Water Reverse Osmosis (RO) Element

N-TECH brackish water reverse osmosis (RO) membrane elements are widely used in industrial and municipal fields such as industrial pure water production, brackish water desalination, and advanced treatment of reclaimed water reuse. The reverse osmosis membrane sheets are manufactured using world-leading composite membrane coating technology and fully automated production lines, ensuring consistent reliability and stability of the products. All brackish water reverse osmosis membranes exhibit excellent filtration performance and outstanding anti-fouling properties, guaranteeing the long-term stable operation of desalination systems.

N-TECH brackish water reverse osmosis membrane elements are available in diameters of 2.5 inches, 4 inches, and 8 inches, compatible with various standard pressure vessels, and are easy to install and replace. To address different raw water sources, N-TECH has developed multiple series of brackish water reverse osmosis membrane elements, including XLP, LE and FR.

N-TECH brackish water reverse osmosis membrane elements are committed to "energy saving and emission reduction," delivering a high-quality experience to customers.



BW: Balanced flow and rejection
BW-FR: Fouling-resistance, High rejection
BW-XFR: eXtra fouling-resistance, High rejection

LE: Low energy, High flow
LE-FR: Low energy, Fouling-resistance
XLP: eXtra low pressure



NT FILM Seawater Reverse Osmosis (RO) Elements

NT-FILM™ seawater desalination product series utilizes world-leading composite membrane coating technology, an optimized polysulfone support layer structure, significantly enhancing the membrane's pressure resistance.

This ensures the denseness of the desalination layer and extends the lifespan of the membrane. The seawater reverse osmosis membrane combines high desalination rates with low energy consumption, offering stable performance and consistent water production. It is primarily used in seawater desalination, high-concentration salt wastewater reuse, minimum-zero discharge treatment, material concentration, and other applications.









SW-HR: Superior rejection, excellent durability
SW-HRLE: High rejection, Low energy
SW-XLE: High flow, eXtra low energy



SPARK - Grooved Couplings

SPARK filtration has been focusing on water treatment system piping solutions. The working pressure of the whole series of couplings is 450PSI, 600 PSI, 1200 PSI and 1800 PSI. The materials include duplex stainless steel, super duplex stainless steel, 304, 316, composite plastics, carbon steel, etc. The quality standards follow the design standards of AWWA and ASTM. The products are widely used in large seawater desalination plants in the Middle East, Europe, Australia, Asia and other regions.



 <p>TYPE LLS 300~450 PSI Stainless Steel 0.75" to 12"</p>	 <p>TYPE M 600 PSI Stainless Steel 0.75" to 12"</p>
 <p>TYPE S 1200 PSI Stainless Steel 0.75" to 16"</p>	 <p>TYPE X 1500 PSI Stainless Steel 0.75" to 12"</p>
 <p>TYPE G 450 PSI Cast iron 0.75" to 12"</p>	 <p>TYPE H 1000 PSI Cast iron 0.75" to 12"</p>
 <p>TYPE P 150-300 PSI COMPOSITE 0.75" to 8"</p>	 <p>Gasket</p>



SPARK - DUPLEX PIPING

Pipe, Pipe Fittings, Flanges, Instrumentation

Pipes & Tubes

Stainless Steel: ASTM A312 TP 304/ 304L/ 304H/ 316/ 316L/ 317/ 317L/ 321/ 310/ 347/ 904L etc.

Carbon Steel: ASTM A53 GR. B/ A105 GR. / A106 GR. B/ API 5L GRADE B/ API 5L GR.X42/46/52/56/60/65/70, etc.

Low Temperature, Carbon Steel: A333 Gr.3/Gr.6 etc.

Alloy Steel: ASTM A335 GR. P1/ P5/ P9/ P11/ P22/ P91 etc.

High Nickel Alloys: Monel, Nickel, Inconel, Hastelloy, Titanium, Tantalum, Bismuth, Aluminium, High-Speed Steel, Non-Ferrous Metal: Copper, Brass, Bronze, Zinc, Lead, etc.

Types: Round, Square, Rectangular.

Size:

- 1/4" NB to 32" NB (Seamless & Welded)
- 1/4" OD to 6" OD

Wall Thickness:

- Sch. 5S to Sch. XXS
- 22 SWG to 10 SWG



Butt Weld Fittings

Stainless Steel: ASTM A403 WP 304/ 304L/ 304H/ 310S/ 310H/ 316/ 316L/ 317/ 317L/ 321/ 310/ 347/ 347H/ 904L etc.

Carbon Steel: ASTM A234 WPB / A420 WPL3/ A420 WPL6/ MSS-SP-75 WPHY 42/46/52/56/60/65/70

Alloy Steel: ASTM A234 WP1/ WP5/ WP9/ WP11/ WP22/WP91 etc.

Others: Monel, Nickel, Inconel, Hastelloy, Copper, Brass, Bronze, Titanium, Tantalum, Bismuth, Aluminum, High-Speed Steel, Zinc, Lead, etc.

Types: Elbow, Tee, Reducer, Return Bends, Stub-Ends, Cap, Collar, Cross, Insert, etc.

Size: 1/4" NB TO 32" NB (Seamless & Welded)



Flanges

Stainless Steel: ASTM A182 F304/ 304L/ 304H/ 316/ 316L/ 317/ 317L/ 321/ 310/ 347/ 904L/ Etc.

Carbon Steel: ASTM A105/ A694 F42/ 46/ 52/ 56/ 60/ 65/ 70/ A350 LF3/ A350 LF2, Etc.

Alloy Steel: ASTM A 182 F1/ F5/ F9/ F11/ F22/ F91/ Etc.

Duplex Steel: 2205 (Duplex), 2507 (Super Duplex) | UNS - 31803, 32750, 32990

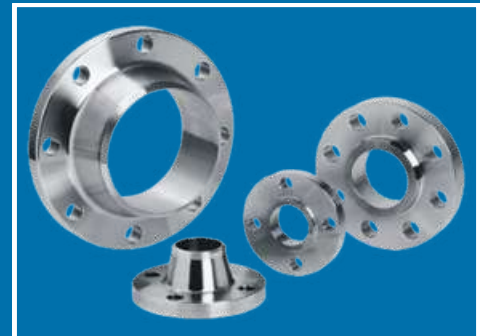
Others: Monel, Nickel, Inconel, Hastelloy, Copper, Titanium, etc.

Types: Weldneck, Slipon, Blind, Socket Weld, Lap Joint, Spectacles, Ring Joint, Oriface, Long Weldneck, Etc.

Size: 1/8" NB TO 48" NB

Class: 150#, 300#, 400#, 600#, 900#, 1500# & 2500#.

Also as per the National & International Standard.



SPARK - INSTRUMENTS

- Conductivity meter
- Ph meter
- ORP meter
- Flow meter
- RO control panels
- UF control panels

Waste Water Panel

Sensors





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