

HONG KONG

**Spirax Sarco Pte Ltd
(Hong Kong Branch)**
Unit 1507, 15/F, Prosperity
Center, Chong Yip Street,
Kwun Tong, Kowloon,
Hong Kong

Tel: (852) 2754 9828
Fax: (852) 2754 3660
Contact: Alfred Wong
E-mail: sales@
spirax.com.hk

INDONESIA

Spirax Sarco Rep Office
Jln Zeni No. 4
Mampang Parapatan
Jakarta 12790, Indonesia

Tel: (62) 021 797 3332
Fax: (62) 021 798 2156
Contact: Cosner Tambunan
E-mail: spiraxsarco.jkt@
petrologmum.co.id

THE PHILIPPINES

**Spirax Sarco Pte Ltd
(Philippines Branch)**
Natividad Building
2308 Chino Roces Ave Ext
Makati City, Philippines

Tel: (63) 2812 8654
Fax: (63) 2812 8673
Contact: Ian Aplin
E-mail: sales_ph@
sg.spiraxsarco.com

SINGAPORE

**Spirax Sarco Pte Ltd
(Regional Office)**
464 Tagore Industrial Avenue
Singapore 787833

Tel: (65) 6 349 0480
Fax: (65) 6 459 6854
Contact: Kwek Chin Leong
E-mail: KwekChinLeong@
sg.spiraxsarco.com

**PT Petrolog Multi
Usaha Mandiri**
Jln Zeni No. 4
Mampang Prapatan
Jakarta 12790, Indonesia

Tel: (62) 021 790 1480
Fax: (62) 021 798 2156
Contact: Budi Setiawan
E-mail: bsetiawan@
petrologmum.co.id

VIETNAM

**Spirax Sarco Vietnam
Rep Office**
64 / 22 Pho Quang, Ward 2
Tan Binh Dist, Ho Chi Minh City
Vietnam

Tel: (84) 08 9974324
Fax: (84) 08 4086909
Contact: Nguyen Thanh Hai
E-mail: spiraxsarco@
hcm.vnn.vn

PT Centrindo Palmox
Blok.F No.2-3 Kompleks
Brayan, Prima Jl. KL. Yos
Sudaruso, Tanjung Mulia
Medan, Indonesia

Tel: (62-61) 6642784-6642785
Fax: (62-61) 6642786
Contact: Sugianto
E-mail: sales@
centrindo.com

VISIT YOUR NEAREST SPIRAX SARCO TODAY!

Whether it is for some advice or a discussion on optimising your steam plant, you are most welcome to visit any of our Spirax Sarco offices and approved distributors.

With over 40 Spirax Sarco trained professionals in this region ready to volunteer their expertise and services, we are confident that you will find the consultation with us greatly rewarding and beneficial to your company.

Website: www.spiraxsarco.com/sg Email: spiraxsin@sg.spiraxsarco.com

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STEAM EXPRESS

Knowledge, Service & Products



Boost Productivity to New Levels

Boosting productivity is all about getting the biggest 'bang for your buck'. Often, companies turn to advanced techniques such as lean manufacturing to raise productivity, but it's just as important to tackle the basics. A well managed steam system can be a real boost to productivity.

In the Boiler House

- **Get your water treatment right:** establish the right water treatment regime to keep the boiler running smoothly and producing good, dry steam. It takes specialist advice to get it right, taking into account local conditions such as raw water hardness.
- **Install modern boiler controls:** Maintaining correct boiler operation avoids wet steam being carried over into the distribution system, where it could affect heat transfer efficiency and cause unexpected shutdowns. Automatic level and blowdown controls are the key systems to review.



TDS Blowdown

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- **Coping with peak loads:** Avoid productivity-killing boiler lockouts caused by high peak steam demands. Install an accumulator as a buffer or more advanced control systems between the boiler and the steam system if sudden peak loads from simultaneous start up of several processes threaten to exceed boiler capacity.

In the Steam Distribution System

- **Accurate and fast steam controls:** Fit high quality controls at the point of use to avoid poor quality or rejected process batches caused by inaccurate heating.
- **Achieve fast warm up:** Avoid unnecessary production delays by ensuring your steam system is started properly and in good time.
- **Survey and improve:** Instigate regular steam surveys. A steam trap survey, for example, will identify any issues, such as incorrectly specified or poorly installed steam traps, which are easily fixed to help achieve higher productivity.
- **Keep heat exchangers running effectively:** In some low demand applications, heat exchangers can waterlog due to insufficient pressure to remove condensate. Fit automatic pump traps to clear condensate under all conditions.



Automatic Pump Trap

Plan for Rapid Maintenance



Double Block and Bleed

- Use double isolation to isolate sections of your steam system safely for maintenance without shutting down the whole system.
- Specify and use products that can be maintained quickly.

Need a helping hand in boosting your productivity?
Contact your nearest Spirax Sarco office (contact details on the back page).



KSP - Spirax Sarco's business philosophy

Not new to many of our valued customers, Spirax Sarco is committed in delivering our KSP (Knowledge, Service and Products) philosophy in every aspect of our business.

We are pleased to share with you one of our customer's testimonial on our delivery of the KSP philosophy in Indonesia.

Our representative in Indonesia PT Petrolog Multi Usaha Mandiri worked with Bali Hyatt to improve on their plant efficiency. After rounds of discussion and plant survey, we recommended a steam system solution which Bali Hyatt has adopted and installed.

Today, we have a satisfied customer - Bali Hyatt gained from their new steam system solution by achieving energy saving with reduced fuel consumption by their boiler and an improvement to their steam quality.

A classic case study on how Spirax Sarco exploits our in-depth knowledge in steam to provide our valued customers a total solution, which was supported by our quality products.



Quick Fit Compact Steam Trapping Solutions

In a traditional steam trapping assembly, there are many joints between the traps and isolation valves which are potential leak paths.

Spirax Sarco's PC pipeline connectors are a single permanent in-line connector that will significantly reduce installation time, cuts costs dramatically, and eliminate system leaks.

The PC pipeline connector's unique design allows steam traps to be quickly and easily replaced in a matter of minutes by undoing two bolts. PC pipeline connectors are available in a range of configurations for use with swivel connector steam traps, from a simple connector and trap to a complete steam trap station.

Pipeline connectors are available with screwed, socket weld and flanged end connections.

- Options include piston valves to provide temporary isolation, a bypass valve to maintain a live steam system, depressurization valves and integral strainers.
- A complete complementary steam trap range is available.



Pipeline Connectors



Straight in-line connector
PC10 / PC10HP



Straight in-line connector with strainer
PC20



Straight in-line connector with strainer and sensor
IPC20 / IPC21



Straight in-line connector with one stop valve
PC30 / PC33 / PC34 / PC35



Straight in-line connector with two stop valve
PC40/PC43/PC44/PC45/PC46/PC47

Pipeline Connectors + Quick Fit Traps = Compact Steam Trapping Solutions

Quick Fit Traps



Thermodynamic steam trap
UTD30L / UTD30H / IUTD30L / IUTD30H / UTD42L



Balanced pressure steam trap
UBP21 / UBP32



Ball float steam trap
UFT14 / UFT32



Inverted Bucket steam trap
UIB30 / UIB30H



Bimetallic steam trap
USM21

When the pressure gets tough, let Spirax help you control it

Pressure reducing valves are one of the prime workhorses in steam and other fluid systems. Generating and distributing steam at high pressure is the best way of supplying high quality steam at the lowest cost. But at the point of use, this steam pressure needs to be lowered for the application. Hence, it is important to pick the right valve type to ensure that peak productivity is maintained.

Pick the right valve for the job

Pilot Operated

- Accurate pressure reduction recommended for medium duty or process applications.
- Suitable for steam, air or gases.

Direct Acting

- Reduces from high to very low pressures in a single valve.
- Suitable for high capacities and with fairly constant loads in steam, air and gas systems.

Compact Direct Acting

- A highly durable valve for light duty.
- Provides accurate pressure control under stable conditions in steam, air and gas systems.

Compact Balanced

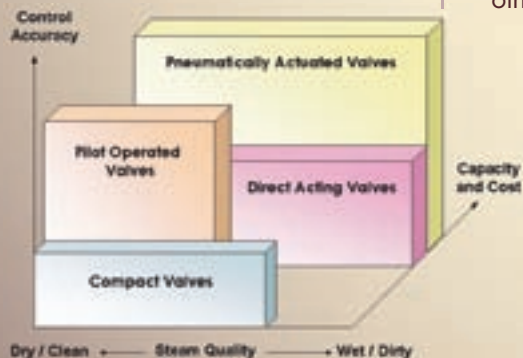
- Another compact, highly durable valve for basic applications, in larger sizes than the compact direct acting units.
- Also available in stainless steel.

Compact for Liquids

- For pressure reduction in liquid systems.
- Provides accurate and stable pressure control under all load conditions.

Pneumatically Actuated

- For critical process control where rapid changes in system conditions occur.
- Can be integrated with high level control systems.
- Suitable for steam, water, oils and other industrial fluids.



Dear TC :

Q There are occasions when I need to access installation and maintenance instructions urgently. How quickly can you get this information to me?

A A good source of information is available on our website (www.spiraxsarco.com/sg).

Within this site you will find, at the Homepage under the Products and Services tab, a Product Literature link that will lead you to search for Technical Information (TI) and Installation and Maintenance Instruction (IMI) sheets.

The TI's and IMI's are available in .pdf format for easy downloading and printing. You are only required to install the Adobe Reader to support the files.

Of course the best source of information and assistance is from our experienced Sales and Service Engineers. Make use of their knowledge and expertise to ensure that your plant works to its maximum potential. Refer to back page for your nearest Spirax Sarco office.



In this column, we feature customers' questions and answers provided by our Technical and Training Manager, Mr Chng Poh Beng.

Simply send your questions marked "Dear TC" to StephanieCheong@sg.spiraxsarco.com or to fax number 65-6459 6854. Kindly indicate if you do not wish to have your name and/or your company's name published. We reserve the right to edit the questions and not to publish them. If your question is published in Steam Express, you will receive a corporate gift.