

SW RangeTM

Water Management Systems



Features

- 304 SS vessel construction
- Water regulator
- Flow indicator
- Non-return valve

Benefits

- Suitable for a range of challenging environments
- · Maintains vessel water level and pressure
- Visually alerts the user of an inboard seal failure
- Supplied as complete system The SW Range has all the components required for fast and easy installation
 - · Protects plant water supply from contamination and maintains vessel pressure in the event of supply interruption

www.aesseal.com

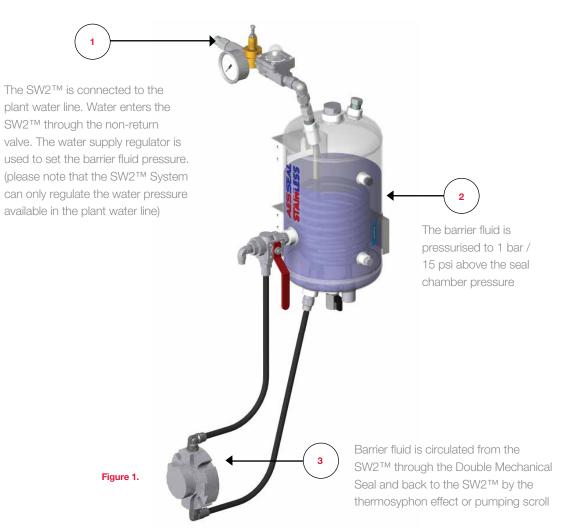


SW Range

The AESSEAL[®] SSE10[™] and SSE25[™] vessels are used as the core of a modular Water Management System Range (SW2[™] & SW3[™]). The environmentally friendly SW Range have significantly contributed to the global drive for water conservation. AESSEAL[®] Water Management Technology can save 6.3 Million litres / 1.7 Million US gallons of water per pump per year! The Water Management Range starts with the SW2[™], which is piped as an API Plan 53A configuration (see Figure 1). This is a self regulating system which can both refill and re-pressurise itself upon any mechanical seal upsets. The SW3[™] is piped in the same way as the SW2[™] and has the addition of finned tubing to deal with high heat applications. All vessels are designed and manufactured in accordance with ASME VIII Div.1 and all SW systems comply with Pressure Equipment Directive PED (97/23/EC)

SW Range Operating Principle

(SW2[™] shown below)





Specifications

System Specification:

Maximum Set Pressure: 6 Barg / 87 psig* Maximum Design Pressure: 10 barg / 145 psig Minimum Working Pressure: 1 barg / 15 psig Maximum Temperature: 80°C / 176°F (with suitably rated piping / hosing)

Minimum Temperature: 0°C / 32°F**

* 8 Barg can be achieved with optional expansion vessel ** Protection against freezing required for water below 0°C

Vessel

Construction: 304 Stainless Steel Capacity: 10 litres / 2.64 gal (US) Or 25 litres / 6.60 gal Connections: 1/2" NPT for seal feed and return hoses Finish: Glass bead blast Designed to: ASME VIII Div.1

SW Range System Components:

Non-Return Valve: Stainless Steel Water Supply Regulator: Brass, max outlet pressure 10 bar / 150 psi (Stainless Steel option available) Pressure Gauge: Brass (Stainless Steel option available) Flow Indicator: Stainless Steel Ball Valve (Drain): Nickel plated brass 12mm (1/2") Hose Kit (SW2™ Only): Nylon 3-way valve (SW2™ Only): Nickel plated brass (Stainless Steel option available) Finned Tubing (SW3™ Only): Cupro Nickel



Optional Extras:

Cooling Coil

Finned Tubing: Cupro Nickel Pressure Switch: Safe area, explosion proof and intrinsically Safe options

Level Switch: Safe area, explosion proof and intrinsically Safe options

Stainless Steel Braided flexible hose

Hard pipe kit

In-line Water Filter: UV stabilized material, 8 bar / 120 psi max pressure (we strongly recommend the use of an in-line filter with the SW range)

Expansion Vessel: Stainless steel, used for higher set pressures

The SW Range is commonly used with the following seals:



DMSF™

CDSA™

Barrier & Buffer Fluid Systems For Use With Double Mechanical Seals

AESSEAL® supplies an extensive range of barrier and buffer fluid systems for use with double mechanical seals. Wherever possible AESSEAL® prefers to supply both the seal and the system. In addition the company will suggest suitable barrier or buffer fluids for most applications, based on extensive field experience AESSEAL® accepts no responsibility for any problems associated with system design, installation, operation, or the use of an unsuitable barrier or buffer fluid, where the fluid, seal or any part of the system have not been specified and / or supplied by AESSEAL®.

AESSEAL plc, Rotherham, UK 2 AESSEAL plc, Derby, UK AESSEAL plc, Middlesbrough, UK AESSEAL plc, Upminster, UK AESSEAL plc SW, Port Talbot, South Wales, UK AESSEAL (MCK) Ltd. Lisburn, UK AESSEAL Ireland Ltd, Lisburn, UK AESSEAL Ireland Ltd, Co Cork, Eire AESSEAL Inc. Rockford, TN, USA AESSEAL Inc. Kingsport, TN, USA AESSEAL Inc. Marion, IA, USA AESSEAL Inc. Fairfield, ME, USA AESSEAL Inc. Longview, WA, USA -AESSEAL ALAA, Jubail, Saudi Arabia AESSEAL COJ sarl, Alger, Algeria 06 . AESSEAL Argentina SA, Buenos Aires, Argentina * AESSEAL Australia Pty Ltd, Seventeen Mile Rocks, Australia AESSEAL Benelux BV Breda Holland AESSEAL Brasil Ltda, São Paulo, Brazil AESSEAL Canada Inc, Surrey, B.C., Canada ... AESSEAL Caribbean Ltd, Trinidad W.I AESSEAL Chile SA, Providencia Santiago, Chile 100 AESSEAL China Ltd, Ningbo, China AESSEAL China Ltd. Shanghai, China 100 AESSEAL China Ltd. Naniing, China AESSEAL China Ltd. Dalian, China AESSEAL Colombia S.A., Bogota, Colombia AESSEAL Czech sro, Brno, Czech Republic AESSEAL Danmark, A/S, Køge, Denmark S 27. 14 AESSEAL Deutschland GmbH. Kronau, Germanv AESSEAL Deutschland GmbH, Sauerlach, Germany AESSEAL Finland OY, Muurame, Finland AESSEAL France SAS, Nieppe, France AESSEAL India Pvt. Ltd, Pune, India AESSEAL India Pvt. Ltd. Chennai, India 01 AESSEAL Coldweld Pvt. Ltd, Vasai (East), Thane, India AESSEAL Italia Srl, Gallarate, Italy • AESSEAL Malaysia, SDN BHD, Selangor, Malaysia AESSEAL Malaysia, SDN BHD, Pahang, Malaysia • • AESSEAL Malaysia, SDN BHD, Johor, Malaysia AESSEAL Mexico, S de RL de CV, Mexico City, Mexico AESSEAL Middle East FZE, Dubai, U.A.E. AESSEAL Norway AS, Oslo, Norway AESSEAL Orvx LLC, Doha, Qatar -AESSEAL Polska Sp. z o.o. Bielsko-Biała, Poland AESSEAL Univeda LDA, Lisbon, Portugal 160 AESSEAL Russia, Koroliov City, Moscow, Russia AESSEAL Pty Ltd, Durban, South Africa 12 27 AESSEAL Pty Ltd, Johannesburg, South Africa AESSEAL Ibérica SL, Tarragona, Spain 181 AESSEAL Sweden AB Stockholm Sweden AESSEAL Vo Lee Ltd, Kaohsiung County, Taiwan 6 AESSEAL Turkiye, Istanbul, Turkey . AESSEAL Uruguay, Montevideo, Uruguay

Tel: +44 (0) 1709 369966 Tel: +44 (0) 1332 366738 Tel: +44 (0) 1642 245744 Tel: +44 (0) 1708 256600 Tel: +44 (0) 1656 741035 Tel: +44 (0) 28 9266 9966 Tel: +44 (0) 28 9266 9966 Tel: +353 (0) 214 633477 Tel: +1 865 531 0192 Tel: +1 423 224 7682 Tel: +1 319 377 0170 Tel: +1 207 453 6915 Tel: +1 360 414 0118 Tel: +966 3 361 7461 Tel: +213 (0)555 033247 Tel: +54 11 4721 0875 Tel: +61 7 32791144 Tel: +31 (0) 76 564 9292 Tel: +55 11 5891 5878 Tel: +1 604 535 7512 Tel: +1 868 483 7881 Tel: +56 2 2343022 Tel: +86 (0) 574 8823 2888 Tel: +86 (0) 21 60761081 Tel: +86 (0) 25 68139838 Tel: +86 (0) 411 83729851 Tel: +57 (1) 634 9095 Tel: +420 543 212 489 Tel: +45 56 64 14 00 Tel: +49 (0) 7253 8090 Tel: +49 (0) 8104 639607 Tel: +358 1433 84500 Tel: +33 320 172850 Tel: +91 2113 302222 Tel: +91 44 2481 7786 Tel: +91 250 645 6884 Tel: +39 0331 799 952 Tel: +603 806 21233 Tel: +609 583 6133 Tel: +607 388 8323 Tel: +52 5553845070 Tel: +9714 884 9301 Tel: +47 2273 6849 Tel: +974 4015 9620 Tel: +48 33 818 4135 Tel: +351 217 969212 Tel: +7 495 777 4011 Tel: +27 (0) 31 903 5438 Tel: +27 (0) 11 466 6500 Tel: +34 977 55 43 30 Tel: +46 (0) 8 55602870 Tel: +886 7 371 3990 Tel: +90 (0) 216 304 0237 Tel: +598 2 924 7252

rotherham@aesseal.com derby@aesseal.co.uk northops@aesseal.co.uk se@aesseal.co.uk aeswales@aesseal.co.uk salesmck@aesseal.co.uk sales.ireland@aesseal.co.uk sales.ireland@aesseal.com usa@aesseal.com kportadmin@aesseal.com midwest@aesseal.com neadmin@aesseal.com nwadmin@aesseal.com info@aesseal.com.sa contact@aescoj-dz.com aesseal@aesseal.com.ar customer.service@aesseal.net.au seals@aesseal.nl aessealbrasil@aesseal.com.br canada@aesseal.com caribbean@aesseal.com aesseal@aesseal.cl service@aesseal.com.cn service@aesseal.com.cn service@aesseal.com.cn service@aesseal.com.cn info@aesseal.com.co aesseal@aesseal.cz mail@aesseal.dk info@aesseal.de info@aesseal.de aesseal@aesseal.fi contact@aesseal.fr aesseal@aesseal.in chennai@aesseal in mail@aescoldweld.com info@aesseal.it aesseal@tm.net.my aesseal@tm.net.mv aesseal@tm.net.my info@aessealmx.com sales@aesseal.ae info@aesseal.no aesorvxinfo@aesseal.com aesseal@aesseal.com.pl geral@aesseal.pt info@aesseal.ru durban@aesseal.co.za admin@aesseal.co.za info@aesseal.es kundservice@aesseal.se aesseal.volee@msa.hinet.net info@aesseal.com.tr sealtecplc@aesseal.com.uy

This document is designed to provide dimensional information and an indication of availability. For further information and safe operating limits contact our technical specialists at the locations below.



+44 (0) 1709 369966

+44 (0) 1709 720788

UK Sales & Technical advice:

Bradmarsh Business Park

E-mail: seals@aesseal.com

Rotherham, S60 1BZ

www.aesseal.com

United Kingdom

AESSEAL plc

Mill Close

Tel·

Fax.



Distributed by:



'Our purpose is to give our customers such exceptional service that they need never consider alternative sources of supply.'





AESSEAL Inc. 355 Dunavant Drive Rockford, TN. 37853

+1 865 531 0192 Tel: Fax. +1 865 531 0571 E-mail: usa@aesseal.com www.aesseal.com

INVESTOR

IN PEOPLE

Important: Since the conditions and methods of use of this product are beyond our control, AESSEAL plc expressly disclaims any and all liability resulting or arising from any use of this product or reliance on any information contained in this document - AESSEAL plc standard conditions of sale apply. All sizes are subject to manufacturing tolerances. We reserve the right to modify specifications at any time. AESSEAL® is a Registered Trademark of AESSEAL plc, AESSEAL plc recognizes all trademarks and trademark names as the property of their owners. LN-UK/US-SWRANGE-03 Copyright © 2014 AESSEAL plc 5/2014