

API 682 4th edition Category 1 Configurations









Seal supply systems



Configuration



WEF6, WEL6, SPT6 WEF6, WEL6, SPT6 ZYA6 WEF6, WEL6, SPT6, ZYA6 PX6 API 682 4th edition

Category 1

Configuration 1CW-FX (Contacting Wet - FiXed throttle bushing)

EagleBurgmann mechanical seals applicable for this configuration

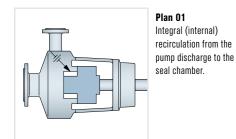
	Seal type A (Balanced pusher seals)	Seal type B (Metal bellows seals with O-Rings)	Seal type C (Metal bellows seals with flexible graphite)
ROTATING	APItex-S		
STATIONARY			

Engineered seals

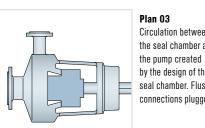
Beyond API specifications, EagleBurgmann offers a comprehensive range of engineered seals tailored to customer's specification. Please inquire.

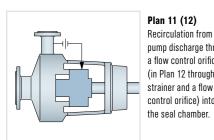
API piping plans applicable for 1CW-FX configuration

Process side

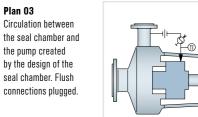


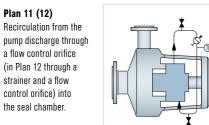
Plan 02 Dead-ended seal

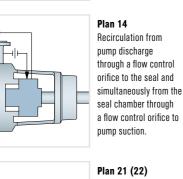




chamber with no recirculation of flushed fluid. Flush connections plugged.







Plan 13

pipina.

Recirculation from the

seal chamber through

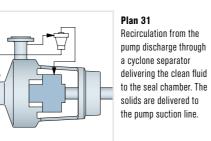
a flow control orifice

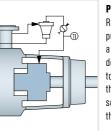
and back to the pump

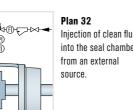
suction or pump suction

Recirculation from pump discharge through a flow control orifice and cooler (in Plan 22 through a strainer, a flow control orifice and a cooler) into the seal chamber.









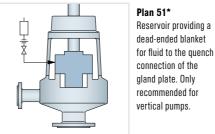
Plan 41 Recirculation from the pump discharge through a cyclone separator delivering the clean fluid to a cooler and then to the seal chamber. The solids are delivered to

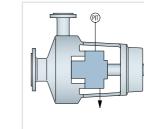


EagleBurgmann seal supply systems and components

Plans	Products
21 (22), 23	WEF6 Water cooler, WEL6 Air cooler, SPT6 Temperature in
31	ZYA6 Cyclone separator
41	WEF6 Water cooler, WEL6 Air cooler, SPT6 Temperature indicator, ZYA6 Cyclone separator
32	SPX6 Flush unit
51	QFT6 Quench system
65A	LSA6 Leakage collection reservoir
65B	LSB6 Leakage collection reservoir
66A, 66B	SPP6 Leakage detection system
62 (61), 99	Engineered to customer's specifications

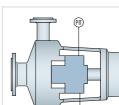
Atmospheric side



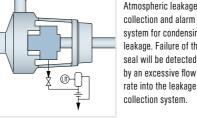


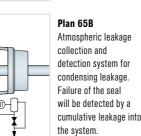


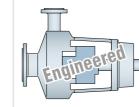
Quench stream from an external source to the atmospheric side of the seal faces. The quench stream can be low-pressure steam, nitrogen or clean water. (Plan 61: tapped and plugged atmospheric-side connections for purchaser's use.)



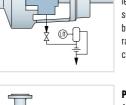
Plan 65A Atmospheric leakage

















the pump suction line.

2

ndicator

Plan 66A

Throttle bushings in the seal gland minimize the seal leakage leaving the seal gland and allow for detection of a seal failure by an alarm of the monitoring pressure transmitter.

Plan 66B

An orifice plug in the drain port minimizes the seal leakage leaving the seal gland and allows for detection of a seal failure by an alarm of the monitoring pressure transmitter.

Plan 99

Engineered piping plan not defined by other existing plans.

The API experts

EagleBurgmann is one of the leading international system providers of sealing technology. For more than 20 years we have been actively contributing our expertise to developing and implementing the API 682 standard for the selection and application of seals and supply systems in centrifugal and rotary pumps.

Solutions for more safety and productivity

The new 4th edition of API 682 is in line with the latest achievements and current developments. EagleBurgmann offers the widest portfolio of seals and seal supply systems acc. to API 682 4th edition, and consequently has the optimum product for each API-compliant requirement: technically mature, practical solutions that provide significantly greater safety and process reliability in refining technology, petrochemical, oil & gas and chemical industries.



eagleburgmann.com

Important note

All the technical specifications are based on extensive tests and our many years of experience. However, the diversity of possible applications means that they can serve as guide values only.

It should be noted that the extremal values of each operating parameter cannot be applied at the same time because of their interaction. Furthermore, the operating range of each specific product depends on the respective shaft diameter, materials used, mode of operation and on the medium to be sealed.

A guarantee can only be given in the individual case if the exact conditions of application are known and these are confirmed in a special agreement When critical conditions of operation are involved, we recommend consulting with our specialist engineers.

Subject to change

Seal type A



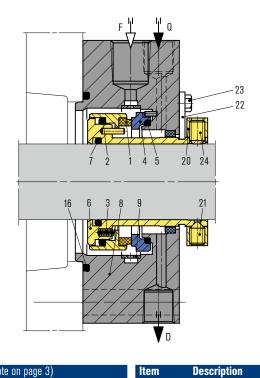
Features

- Single seal
- Cartridge unitCategory 1, Type A, Arrangement 1
- Balanced
- Independent direction of rotation
- Shrink-fitted seal face
- Solid mating ring
- -
- Advantages
- $\boldsymbol{\cdot}$ Insensitive to shaft deflections and process fluctuations
- Good heat dissipation
- Pre-assembled unit, ready to install
- Low space requirements
- · Springs protected from the product

Recommended applications

- Chemical industry
- Petrochemical industry
- Oil and gas industry
- Highly volatile hydrocarbons
- Toxic and hazardous media
- Media with poor lubrication properties
- Low solids content and low abrasive media
- · Vertical and horizontal ANSI chemical standard pumps

APItex-S



1 2, 5

3

4 6 8

9

20 21,

22

23

F

Q

D

Operating range (see note on page 3)
Shaft diameter: d1 = 20 110 mm (0.79" 4.33") Pressure: p1 = 22 bar (319 PSI)
Temperature: t = -40 °C +176 °C (-40 °F +349 °F) (>176 °C (349 °F) please inquire)
Sliding velocity: vg = 23 m/s (75 ft/s)
Materials
Seal ring: Blister resistant carbon, Silicon carbide SSiC (Q12) Mating ring: Silicon carbide SSiC (Q1) Secondary seals: EPDM (E), NBR (P), FKM (V), FFKM (K) Springs: Hastelloy [®] C-4 (M)* and C-276 (M5) Metal parts: CrNiMo steel 316 (G) or equivalent,
Mating ring: Silicon carbide SSiC (Q1) Secondary seals: EPDM (E), NBR (P), FKM (V), FFKM (K) Springs: Hastelloy® C-4 (M)* and C-276 (M5)

Recommended piping plans

Process side:

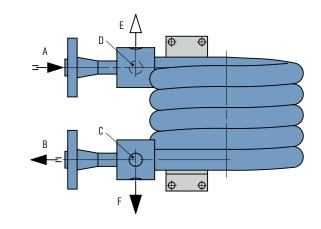
01, 02, 03, 11, 12, 13, 14, 21, 22, 23, 31, 41, 32 Atmospheric side: 51, 61, 62, 65A, 65B, 66A, 66B

n	Description
	Seal ring
, 7, 16	O-Ring
	Spring
	Mating ring
	Seal sleeve
	Gland plate
	Flow distributor
	Set ring
24	Set screw
	Setting device
	Hexagon bolt
	Flush
	Quench
	Drain

Plans 21 (22), 23, 41

WEF6 Water cooler





Features

Heat exchangers of the WEF6000-A4 range are used to cool process/barrier fluids in seal supply circuits. WEF6000-A4 heat exchangers are fully compliant with API 682 4th edition regulations. The process/barrier medium is directed through the tube, and the cooling medium is directed through the shell.

Venting and draining of the process/barrier medium side as well as the cooling water side is ensured. In addition, the heat exchangers can also be combined with a temperature instrument in the supply line to the mechanical seal (optional in accordance with API 682 4th edition).

Advantages

- Operating limits up to 45 bar/260 °C (653 PSI/500 °F) (tube side): suitable for a wide range of demanding operating conditions.
- Cooling water side and process side can be completely vented and drained
- · Seamless pipes on process side
- Special design without welding inside the cooler
- · Higher cooling water velocity due to
- innovative cooler design
- · Stainless steel 316L: high resistance to corrosive media

Recommended applications

- Refining technology
- Oil and gas industry
- Petrochemical industry
- Chemical industry
- Power plant technology

Notes

Design and production in accordance with EU Pressure Equipment Directive PED 97/23 EC. Design, calculation and production acc. to ASME VIII, Div. 1 (cooler not subject to ASME stamp requirements, piping <6")

Cleaning: Process/barrier medium side and cooling water side: flush with a suitable solvent.

Item Description

- A From mechanical seal B To mechanical seal C Cooling water IN
 - Cooling water OUT
 - Vent Drain

D

Ε

F

Product variants WEF6100-A4 WEF6100-A4 WEF6000-A4 WEF6000-A4 Designation Type of heat exchanger ASME PED ASME PED Shell Shell Shell Shell Tuhe Tuhe Tube Tuhe Flange 3/4", 300 lbs Flange 3/4", NPT 3/4" Flange 3/4", NPT 3/4" Flange 3/4", 600 lbs Flange 3/4", Flange 3/4", Process connections 300 lbs 600 lbs 600 lbs 600 lbs Drain/vent connection NPT 1/2" NPT 1/2" NPT 1/2" NPT 1/2" Allowable pressure1) 45 bar (653 PSI) 16 bar (232 PSI) -29 °C ... +150 °C (-20 °F ... +302 °F) -29 °C ... +150 °C (-20 °F ... +302 °F) -29 °C ... +150 °C -29 °C ... +150 °C Allowable temperature cooling (-20 °F ... +302 °F) (-20 °F ... +302 °F) water side (shell side)1 -29 °C ... +260 °C Allowable temperature process/ barrier medium side (tube side)1) (-20 °F ... +500 °F) Cooling capacity (kW)²⁾ 10 10 10 10 Cooling capacity (kW)3) 3 3 3 3 Required cooling water quantity (m³/h) 0.6 0.6 0.6 0.6 Metal parts 316L 316L 316L 316L

Other versions on request.

¹⁾ Design data, permissible working values depend on the actual conditions of service.

 $^{2)}$ Guidelines with buffer/barrier fluid water 60 °C (140 °F) – cooling water 20 °C (68 °F).

³⁾ Guidelines with buffer/barrier fluid oil 60 °C (140 °F) – cooling water 20 °C (68 °F).

Plans 21 (22), 23, 41

Features

Heat exchangers of the WEL6000-A4 range (shown here: WEL6002-A4) are used to cool process/barrier fluids in seal supply circuits. The heat exchangers are made of helical, laserwelded finned tubes. The cooling medium is ambient air. It is important, therefore, for WEL heat exchangers to be installed in well ventilated places indoors or, ideally, outdoors. There is a choice of three different basic versions of the WEL6000-A4 range as well as supplied fully assembled together with valves, base frame and other system components.

Advantages

- Operating limits up to 44 bar/260 °C (638 PSI/500 °F) (tube side): suitable for a wide range of demanding operating conditions.
- · Can be completely vented and drained
- Seamless pipes
- Stainless steel 316L: high resistance to corrosive media

Recommended applications

- Refining technology
- Oil and gas industry
- Petrochemical industry
- Chemical industry

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Power plant technology

Notes

Design and production in accordance with EU Pressure Equipment Directive PED 97/23 EC. Design, calculation and production acc. to ASME VIII, Div. 1 (cooler not subject to ASME stamp requirements, piping <6")

WEL6 Air cooler

Item Description

A

В

С

D

- From mechanical seal
- To mechanical seal
- Vent
- Drain

WEL6001-A4A001-D0)	WEL6002-A4A001-D0		WEL6003-A4A001-D0	
ASME	PED	ASME	PED	ASME	PED
1		2 finned tubes switched in pa	rallel	2 finned tubes switched in para	llel and doubled length
Flange 3/4", 600 lbs		Flange 3/4", 600 lbs		Flange 3/4", 600 lbs	
Flange 1/2", 600 lbs 4)		Flange 1/2", 600 lbs 4)		Flange 1/2", 600 lbs ⁴⁾	
44 bar (638 PSI)	44 bar (638 PSI)	44 bar (638 PSI)	44 bar (638 PSI)	44 bar (638 PSI)	44 bar (638 PSI)
-29 °C +260 °C (-20 °F +500 °F)		-29 °C +260 °C (-20 °F +500 °F)		-29 °C +260 °C (-20 °F +500 °F)	
1.5		2		3	
1.2		1.5		2	
1.2		2.4		4.8	
316L		316L		316L	
	ASME 1 Flange 3/4", 600 lbs Flange 1/2", 600 lbs ⁴⁾ 44 bar (638 PSI) -29 °C +260 °C (-20 °F +500 °F) 1.5 1.2 1.2	1 Flange 3/4", 600 lbs Flange 1/2", 600 lbs ⁴⁾ 44 bar (638 PSI) 44 bar (638 PSI) -29 °C +260 °C (-20 °F +500 °F) 1.5 1.2 1.2	ASME PED ASME 1 2 finned tubes switched in participation Flange 3/4", 600 lbs Flange 3/4", 600 lbs Flange 1/2", 600 lbs ⁴) Flange 1/2", 600 lbs ⁴) 44 bar (638 PSI) 44 bar (638 PSI) -29 °C + 260 °C -29 °C + 260 °C (-20 °F + 500 °F) (-20 °F + 500 °F) 1.5 2 1.2 1.5 1.2 2.4	ASME PED ASME PED 1 2 finned tubes switched in parallel Flange 3/4", 600 lbs Flange 3/4", 600 lbs Flange 1/2", 600 lbs 4 Flange 1/2", 600 lbs 4 44 bar (638 PSI) 44 bar (638 PSI) 44 bar (638 PSI) -29 °C +260 °C -29 °C +260 °C -29 °C +260 °C (-20 °F +500 °F) (-20 °F +500 °F) 1.5 1.2 1.5 2 1.2 2.4 1.5	ASME PED ASME PED ASME 1 2 finned tubes switched in parallel 2 finned tubes switched in parallel 2 finned tubes switched in parallel Flange 3/4", 600 lbs Flange 3/4", 600 lbs Flange 3/4", 600 lbs Flange 3/4", 600 lbs Flange 1/2", 600 lbs ⁴⁾ 44 bar (638 PSI) 44 bar (638 PSI) 44 bar (638 PSI) 44 bar (638 PSI) -29 °C + 260 °C (-20 °F + 500 °F) -29 °C + 260 °C -29 °C + 260 °C -29 °C + 260 °C 1.5 2 3 3 1 1.2 1.5 2 3 1.2 2.4 4.8 4.8

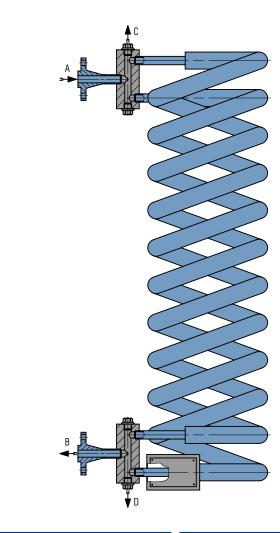
Other versions on request.

¹⁾ Design data, permissible working values depend on the actual conditions of service.

2) Guidelines with buffer/barrier fluid water 60 °C (140 °F) – ambient temperature 20 °C (68 °F); moved air at min. 0.7 m/s (2.3 ft/s); product flow rate 8 l/min.

³⁾ Guidelines with buffer/barrier fluid oil 60 °C (140 °F) – ambient temperature 20 °C (68 °F); moved air at min. 0.7 m/s (2.3 ft/s); product flow rate 8 l/min.

⁴⁾ Version with screwed connection G1/2" available as an option



Plans 21 (22), 23, 41

SPT6 Temperature indicator



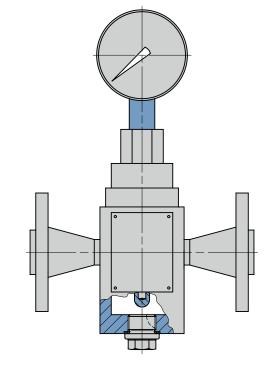
Features

The measuring unit of the SPT6000-A4 range is used to visually monitor the operating temperature.

The measuring unit consists of a bi-metallic temperature gauge (NG100) with protective sleeve installed in a measuring block incl. drain connection.

Advantages

- Operating limits up to 45 bar/260 °C (653 PSI/500 °F) (design parameters)
- Temperature indicating range up to 200 °C (392 °F) Wetted parts: Stainless steel 316L for high resistance
- to corrosive media



Recommended applications

- Refining technology
- Oil and gas industry
- Petrochemical industry
- Chemical industry
- · Power plant technology

Product variants			
Designation	SPT6000-A4	SPT6000-A4	
Connections – process	Flange 3/4", 600 lbs	Flange 3/4", 600 lbs	
Connections - drain	G 1/2"	G 1/2"	
Allowable pressure1)	45 bar (653 PSI)	45 bar (653 PSI)	
Temperature range	0 °C +120 °C (+32 °F +248 °F)	0 °C +200 °C (+32 °F +392 °F)	
Wetted parts	316L	316L	

Other versions on request.

Plans 31, 41



Features

The ZY6000-A4 range is available in three versions:

ZYA6000-A4:

Cyclone separator for high flow rates and high pressures.

ZYB6000-A4:

Cyclone separator for high flow rates and high pressures; 100 % X-ray capability.

ZYC6000-A4:

Cast version, block-type design with integral flanges.

Advantages

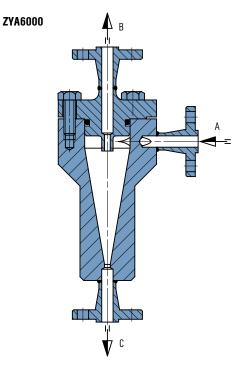
- Contamination is automatically conveyed to the suction nozzle of the pump: maintenance-free mode of operation for guaranteed reliability
- High filtration efficiency
- Wide range of products for the optimum solution for every application
- ZYA6000-A4 and ZYB6000-A4: available for operating pressures of up to 200 bar (2,900 PSI)
- ZYC6000-A4 in block-type design with integrated flange connections: low space requirements because of compact design

Functional description

Cyclone separators of the ZY6000-A4 range are used to clean mainly aqueous liquids containing contamination such as dirts and solids (e.g., in circulation systems of sewage, sludge or pipeline pumps).

The best possible filtration efficiency is achieved when the specific weight of the solids is much higher than that of the carrier liquid and when the differential pressure is as large as possible within the permissible pressure range (min. 1.7 bar (24.7 PSI) in accordance with API 682). The viscosity of the medium is a factor that also needs to be taken into account.

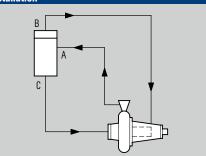




Recommended applications

- Refining technology
- · Oil and gas industry
- · Petrochemical industry
- Chemical industry
- Power plant technology

Installation



P&ID for ZY6000-A4 Cyclone separators

A Contaminated liquid IN

B Clean liquid OUT C Separated liquid OUT

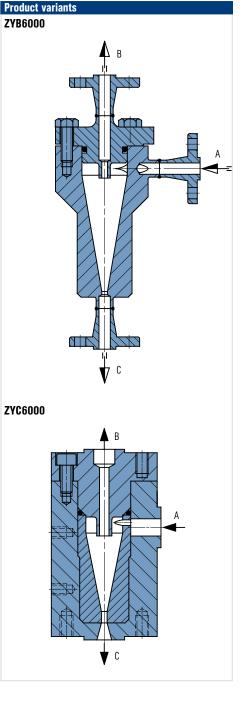
Product variants

Product variants			
Designation	ZYA6000	ZYB6000	ZYC6000
Features	Standard	100 % X-ray capability	Cast version
Connections – product inlet	Flange 3/4", 600 lbs	Flange 3/4", 600 lbs	Integral flange 3/4", 600 lbs
Connections - clean product outlet	Flange 3/4", 600 lbs	Flange 3/4", 600 lbs	Integral flange 3/4", 600 lbs
Connections – contaminated product outlet	Flange 3/4", 600 lbs	Flange 3/4", 600 lbs	Integral flange 3/4", 600 lbs
Allowable pressure ¹⁾	60 bar (870 PSI)	60 bar (870 PSI)	60 bar (870 PSI)
Temperature range	-29 °C +150 °C (-20 °F +302 °F)	-29 °C +150 °C (-20 °F +302 °F)	-29 °C +150 °C (-20 °F +302 °F)
O-Ring ²⁾	Viton®	Viton®	Viton®
Wetted parts	316L	316L	316L

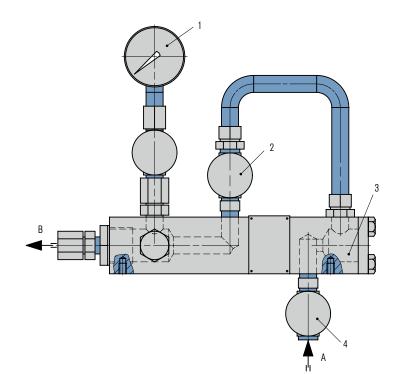
Other versions on request.

¹⁾ Max. permissible working values depend on version.

²⁾ Other materials on request, e. g. FKM, EPDM.



Plan 32



Features

The EagleBurgmann flush unit of the SPX6000-A4 range consists of a manifold with integrated inline filter supplied together with a needle valve and pressure gauge. Optional available with temperature gauge and/or flow indicator. The unit is used to control the flushing of a mechanical seal.

Advantages

- Compact design due to integral filter
- · Modular concept optimal monitoring equipment available

Recommended applications

- Refining technology
- · Oil and gas industry
- Petrochemical industry
- Chemical industry
- Power plant technology

Product variants

Functional description

SPX6 Flush unit

The SPX6000-A4 flush unit continuously supplies flushing media from an external source to the mechanical seal. This plan is almost always used in combination with a throat bushing which serve as a throttle device to maintain a higher pressure in the stuffing box to isolate the pumped product from the seal chamber.

Item Description

1

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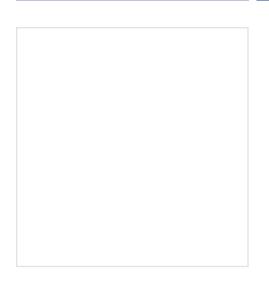
- Pressure indicator
- Needle valve
- Integral filter Valve
- А From external source В
 - To mechanical seal

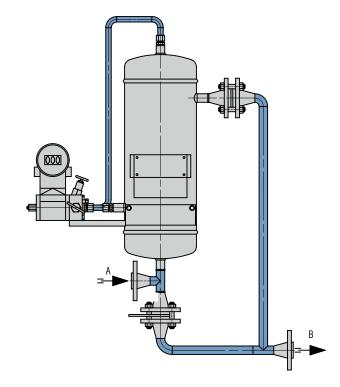
Product variants	
Designation	SPX6000-A4
Allowable pressure ¹⁾	44 bar (638 PSI)
Allowable temperature ¹⁾	-20 °C +120 °C (-4 °F +248 °F)
Process connections	1/2" NPT
Metal parts	316L

Other versions on request.

Plan 65A

LSA6 Leakage collection reservoir





Features

The EagleBurgmann leakage control systems of the LSA6000 range in accordance with API Plan 65A consist of a leakage collection tank with integrated orifice and overflow pipe. The level can be monitored with the differential pressure transmitter which is supplied together with a five-way manifold valve.

Advantages

- Seal failure detection
- · Safe discarding of excessive seal leakage
- To ensure durability, all components are corrosion resistant.

Recommended applications

- Refining technology
- · Oil and gas industry
- Petrochemical industry
- Chemical industry
- Power plant technology

Functional description

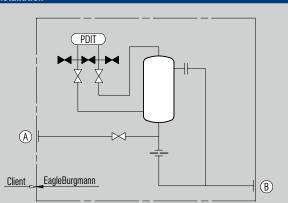
In accordance with API Plan 65A, the LSA6000 leakage control system is used to discharge leakage from single seals. The outboard leakage is collected in an external tank; the leakage volume is monitored (level in the tank).

Notes

Design and production available in accordance with EU Pressure Equipment Directive PED 97/23 EC. Design, calculation and production available acc. to ASME VIII, Div. 1.

3rd party inspection, ASME stamp on request.

Installation



P&ID for LSA6000-A4 Leakage collection system A From mechanical seal

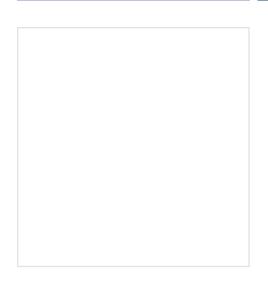
B To leakage collection system

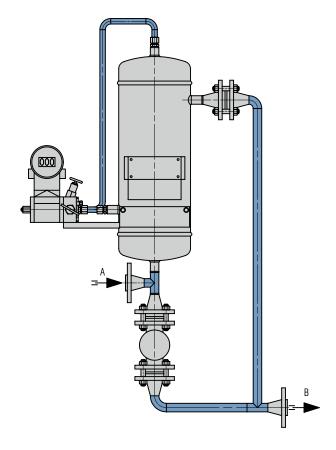
Product variants	
Designation	LSA6000-A4
Pressure Equipment Directive	PED ASME
Volume of vessel (liters)	4
Allowable pressure1)	44 bar (638 PSI)
Allowable temperature ¹⁾	-20 °C +120 °C (-4 °F +248 °F)
Connection	Flange 3/4", 600 lbs
Metal parts	316L

Other versions on request.

Plan 65B

LSB6 Leakage collection reservoir





Features

In accordance with API Plan 65B, the EagleBurgmann leakage control systems of the LSB6000 range consist of a leakage collection tank with valve and overflow pipe. The level can be monitored with the differential pressure transmitter which is supplied together with a five-way manifold valve.

Advantages

- Seal failure detection
- · Safe discarding of excessive seal leakage
- To ensure durability, all components are corrosion resistant.

Recommended applications

- Refining technology
- Oil and gas industry
- · Petrochemical industry
- Chemical industry
- Power plant technology

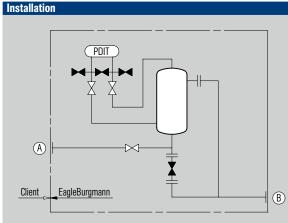
Functional description

In accordance with API Plan 65B, the LSB6000 leakage control system is used to discharge leakage from single seals. The outboard leakage is collected in an external tank; the leakage volume is monitored (level in the tank).

Notes

Design and production available in accordance with EU Pressure Equipment Directive PED 97/23 EC. Design, calculation and production available acc. to ASME VIII, Div. 1.

3rd party inspection, ASME stamp on request.



P&ID for LSB6000-A4 Leakage collection system A From mechanical seal B To liquid collection system

Product variants	
Designation	LSB6000-A4
Pressure Equipment Directive	PED ASME
Volume of vessel (liters)	4
Allowable pressure1)	44 bar (638 PSI)
Allowable temperature ¹⁾	-20 °C +120 °C (-4 °F +248 °F)
Connection	Flange 3/4", 600 lbs
Metal parts	316L

Other versions on request.

Plan 51

QFT6 Quench system



Features

Quench fluid supply systems are used with single mechanical seals. They act as a convenient fluid reservoir. The QFT6000-A4 stainless steel tank is equipped with a sightglass for monitoring the MIN/MAX filling level and can be fastened with a lug fixture.

Advantages

- · Sight-glass for MIN/MAX monitoring has
- a large indicator area
- Filling is possible by filling filter
- or a separate pipe connection
- Combined filling and ventilation filter in the quench fluid tank for reliable operation
- Tank made of 1.4571: high resistance to corrosive media

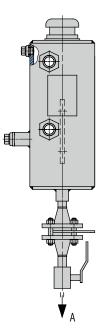
Recommended applications

- Refining technology
- Oil and gas industry
- Petrochemical industry
- Chemical industry
- · Power plant technology



Quench fluid systems (Plan 51) are employed to:

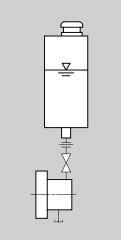
- Absorb leakage
- Monitor the leakage rate (e.g., through periodic reading of the level in the tank)
- Prevent icing
- Protect against dry running
- Stabilize the lubricating film
- Exclude air from the media in order to prevent a reaction with oxygen in the air



Item Description

A To mechanical seal

Installation



Designation	QFT6000/M001-D0
Pressure Equipment Directive	n/a
Volume, vessel (liters)	3
Allowable pressure	Pressureless
Allowable temperature system ¹⁾	-29 °C +100 °C (-20 °F +212 °F)
Metal parts (tank)	316Ti
Filling filter	Glass-fibre-reinforced polyamide
Sight-glass	Glass
Gasket	FKM

Other versions on request.

Plans 66A, 66B

SPP6 Leakage detection system



Features

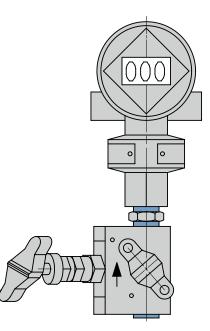
The EagleBurgmann leakage control systems of the SPP6006-A4 range consist of a pressure transmitter which is supplied together with a block and bleed valve.

Advantages

- Compact design
- · Easy to integrate in existing piping systems.

Recommended applications

- Refining technology
- Oil and gas industry
- Petrochemical industry
- Chemical industry
- · Power plant technology



Functional description

The SPP6006-A4 leakage control system is used to detect leakage from single seals. In case of a seal failure, the SPP6006-A4 is required to monitor excessive leakage. If the seal leakage exceeds a certain value, the bushing/ orifice will limit the amount of leakage leaving the seal gland. Consequently the pressure will increase on the upstream side of the inner bushing. The pressure is monitored by means of the transmitter which will provide information about seal performance and seal failure.

Product variants			
Designation	SPP6006-A4	SPP6006-A4	
Process connections	1/2" NPT	1/2" NPT	
Pressure range	0 55 bar (0 798 PSI)	0 55 bar (0 798 PSI)	
Calibration range ¹⁾	0 16 bar (0 232 PSI)	0 40 bar (0 580 PSI)	
Allowable temperature ¹⁾	-29 °C +120 °C (-20 °F +248 °F)	-29 °C +120 °C (-20 °F +248 °F)	
Wetted parts	316L	316L	

Other versions on request.



Our service modules

The modular seal service offered through TotalSealCare is as individual as are the demands of our customers. The range of services spans complete maintenance of all installed seals, through to stock management, as well as engineering, training and electronic data documentation.

Our TotalSealCare services consist of individual modules from which we assemble individualized service packages.

You can benefit from our many years of experience and expertise in all areas of seal technology, and our major store of practical knowledge.

Consulting & engineering

After establishing and analyzing all of the seals in a system, we work out standardization concepts based on the as-is status. The results we are hoping for are to reduce the number of seal types, sizes and materials used, and to improve the key figures of the system. We advise you relating to codes of practice and statutory regulations, and indicate what actions need to be taken.

Maintenance

In the plant or in the service center, qualified fitters and technicians look after all the aspects of seal maintenance: installation, startup, servicing, conversion, overhaul and repair. We record and document functionally relevant data (fault causes, measures for repair, costs). This means it is possible to assess seal operating times and maintenance costs on a continuous basis, thereby defining measures for extending service intervals.

On-site service

Our on-site service includes the components of an overhaul service, conversions and service container. We deploy a service unit directly on your premises: equipped with the basic suite of seals or a stock of seals discussed with you in advance, and staffed by qualified personnel. On-site, our work includes producing the necessary gaskets, ensuring that the documentation is complete and advising our customers on selecting and installing seals. Our range of services is rounded off by complete conversions (e.g. acc. to TA-Luft).

Inventory management

Based on your individual requirements and the applicable quality regulations, we develop a concept for inventory management of complete seals and spare parts. Furthermore, we optimize stocking on site or in the EagleBurgmann service center. In this way, you can reduce your administration overhead and concentrate on your key operations.

Seminars & training

We offer an extensive range of continuing education programs in seal technology. For service and maintenance personnel, skilled staff and engineers from various branches of industry such as refining, chemicals, power generation, foodstuffs, paper and pharmaceuticals. Our range includes group seminars, individual training and seminars specifically tailored to your requirements. At our premises or at a location of your choice.

Technical analysis & support

A team of seal specialists is responsible for rectifying process malfunctions or "bad actors". The latest methods such as thermography or data logging are used for diagnosing positions that are critical for the operation of the system and for working out measures to rectify them. In our research and development centers, we perform realistic tests on test rigs or in original pumps. The objective is to extend the MTBF and to increase system serviceability by individual and constructive solutions.

Service agreements

We offer our customers specific agreements that can be combined from the six service modules. Whether for individual seal systems, critical process elements, specific system areas or an extensive seal service for complete plants: the modular structure of our service makes it possible to satisfy individual requirements. With our tried-and-tested monitoring instrument, SEPRO, we can also record all data relevant for the seals for documentation and evaluation purposes. Argentina · Australia · Australia · Belarus · Belgium · Brazil · Bulgaria · Canada · Chile · China · Colombia · Cyprus · Czech Republic · Denmark · Ecuador · Egypt · Estonia Finland · France · Germany · Great Britain · Greece · Hungary · India · Indonesia · Iraq · Israel · Italy · Japan · Jordan · Kazakhstan · Korea · Kuwait · Latvia · Libya Lithuania · Malaysia · Mauritius · Mexico · Morocco · Myanmar · Netherlands · New Zealand · Nigeria · Norway · Oman · Pakistan · Paraguay · Peru · Philippines Poland · Qatar · Romania · Russia · Saudi Arabia · Singapore · Slovak Republic · Slovenia · South Africa · Spain · Sweden · Switzerland · Syria · Taiwan · Thailand Trinidad and Tobago · Tunisia · Turkey · Turkmenistan · Ukraine · United Arab Emirates · Uruguay · USA · Uzbekistan · Venezuela · Vietnam · **eagleburgmann.com/world**



EagleBurgmann is one of the internationally leading companies for industrial sealing technology. Our products are used everywhere where safety and reliability are important: in the oil and gas industry, refining technology, the petrochemical, chemical and pharmaceutical industries, food processing, power, water, mining, pulp & paper, aerospace and many other spheres. Every day, more than 6,000 employees contribute their ideas, solutions and commitment towards ensuring that customers all over the world can rely on our seals. Our modular TotalSealCare service underlines our strong customer orientation and offers tailor-made services for every application.

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EagleBurgmann. Rely on excellence