

PART OF A FAMILY OF  
PRODUCTS AWARDED  
THE QUEEN'S AWARD  
FOR ENTERPRIZE;  
INNOVATION 2004

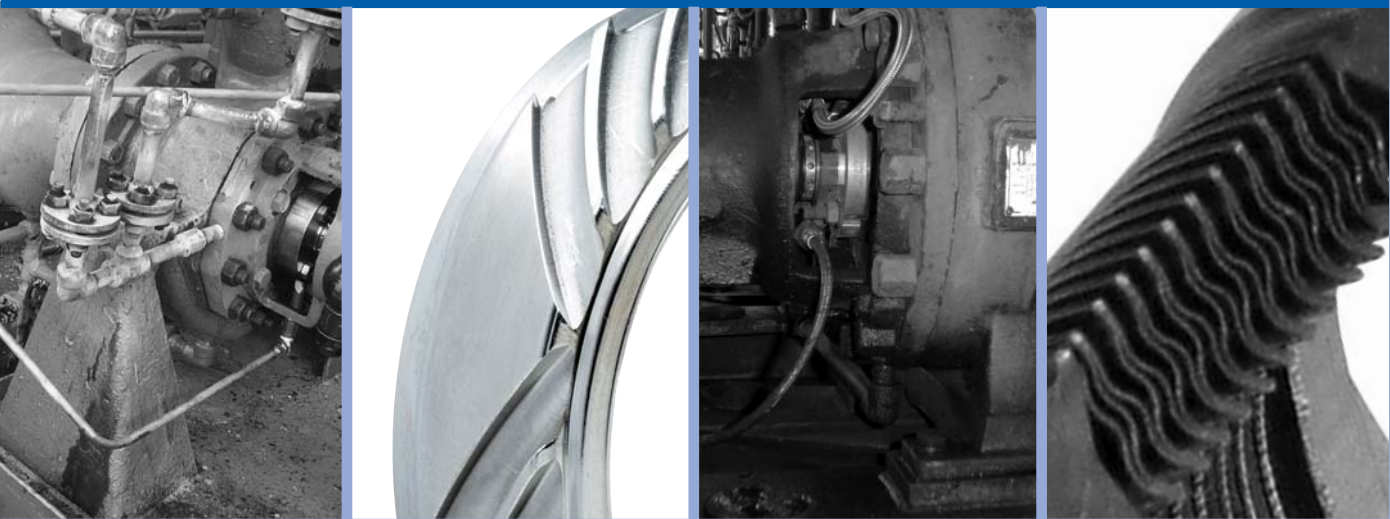


THE QUEEN'S AWARDS  
FOR ENTERPRIZE  
INNOVATION  
2004



# Oil & Gas Industry Products

## CAPI-TXS™



- **QUALIFICATION TESTED SEALS FOR EARLY EDITION API 610 PUMPS**
- **TYPICALLY FIT WITHIN 12MM (1/2") CROSS SECTION**
- **THIN CROSS SECTION (TXS) SEAL DESIGNS FOR MATURE ASSET INSTALLATION**
- **COMPACT AND ROBUST SEAL DESIGNS USING API 682 QUALIFIED TECHNOLOGY**

When AESSEAL developed the CAPI™ (Cartridge API) range it took the unique step of ensuring that the seal faces were compatible with the widest possible range of applications. This range of API 682 qualified mechanical seals, both pusher and bellows, was designed with specific consideration for both new and old equipment.

The CAPI™ range has the same qualified seal face technology for API 610, 10th Ed. pumps as well as the API 610, 5th Ed. pumps, and ALL the pump specification variants in-between spanning more than four decades.

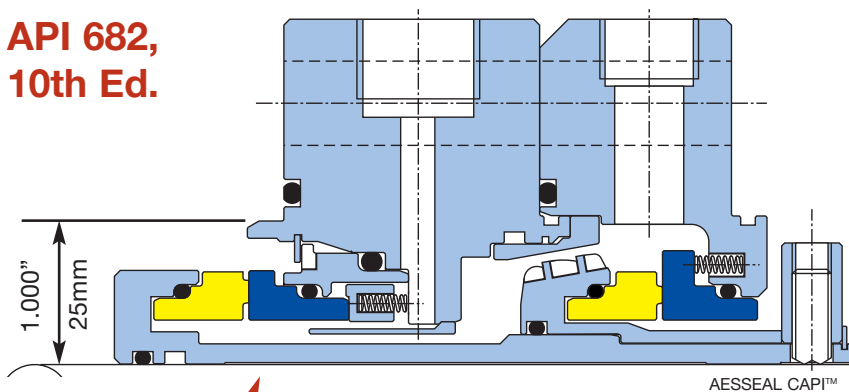
This means that mature equipment, designed in the 1970s and 1980s can be retrofitted with 21st century, API 682 qualification tested seal face technology, without the need for equipment modification.

This has clear benefits for the engineers responsible for making plant equipment conform to local and government emission criteria, whilst at the same time operating in the real world with a finite capital budget.

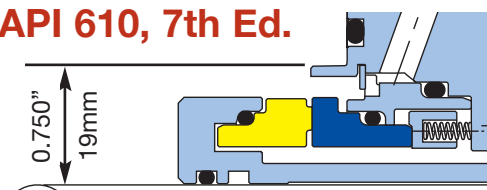


## 21st Century qualification tested sealing technology that fits **mature** assets **without** equipment **modification**

**API 682,  
10th Ed.**

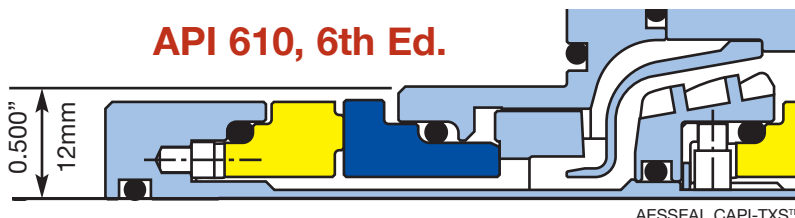


**API 610, 7th Ed.**



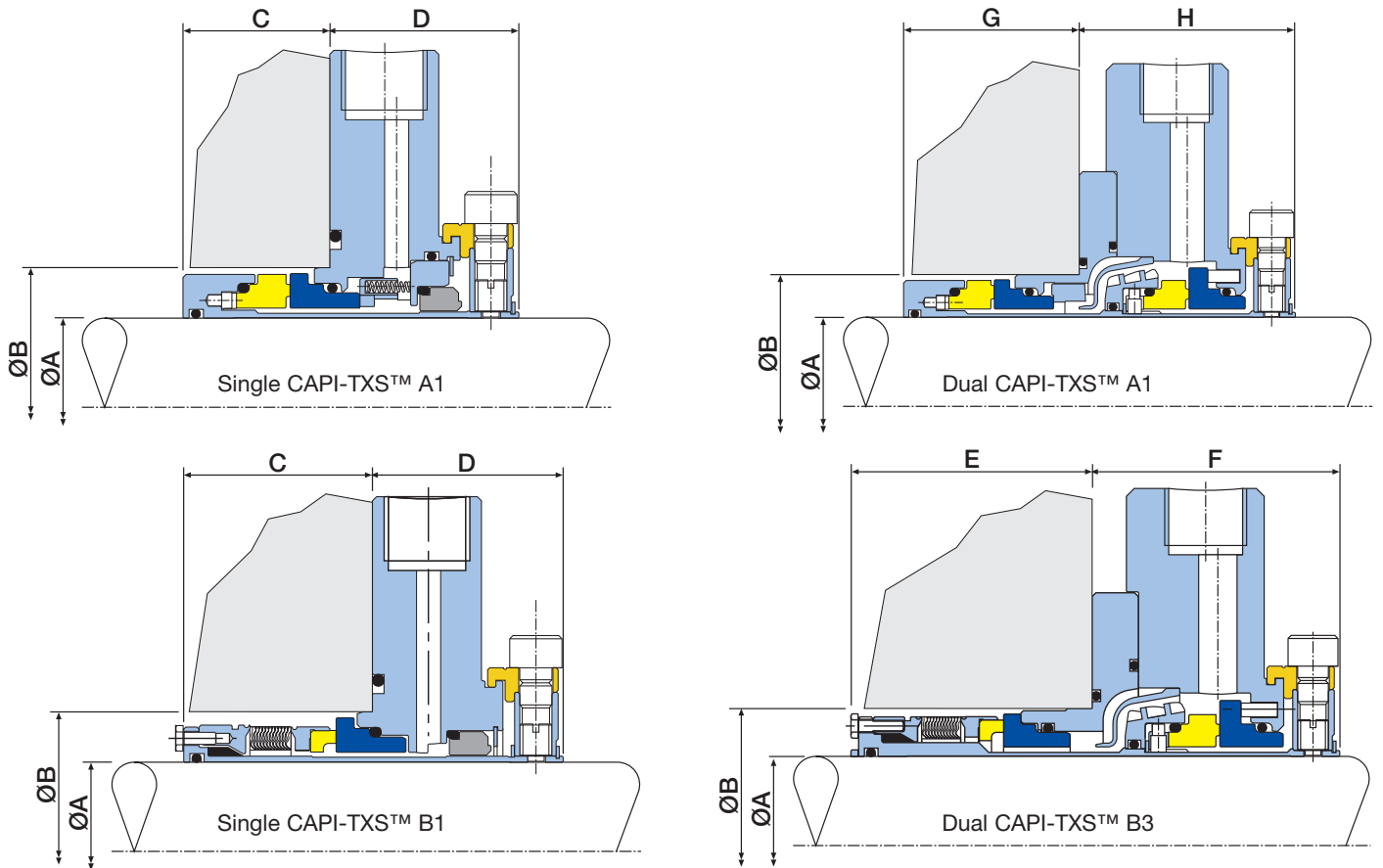
**Identical API682  
Qualified Seal  
Faces**

**API 610, 6th Ed.**



The AESSEAL® CAPI-TXS™ (Thin Cross Section) range comprises of API 682 Category I, cartridge single and dual seals, which use qualification tested API682 technology. As such, AESSEAL® is believed to be the only major global mechanical seal supplier that provides the end user with a viable alternative to the very costly and time consuming pump modification or replacement option.

# CAPI-TXS™ typical dimensional information



**CAPI-TXS™ - Dimensional Information\* (inches)**

ØA	ØB (MIN)	SINGLE CAPI-TXS A1		SINGLE CAPI-TXS B1		DUAL CAPI-TXS A1		DUAL CAPI-TXS B3	
		C	D	E	F	G	H	J	K
1.000	2.000	1.437	1.853	1.750	1.853	2.030	2.500	2.301	2.541
1.125	2.125	1.437	1.853	1.750	1.853	2.030	2.500	2.301	2.541
1.250	2.250	1.437	1.853	1.750	1.853	2.030	2.500	2.301	2.541
1.375	2.375	1.437	1.853	1.930	1.853	2.030	2.500	2.482	2.541
1.500	2.500	1.437	1.853	1.930	1.853	2.030	2.500	2.482	2.541
1.625	2.625	1.437	1.853	1.930	1.853	2.030	2.500	2.482	2.541
1.750	2.750	1.437	1.853	1.930	1.853	2.030	2.500	2.482	2.541
1.875	2.875	1.437	1.853	1.930	1.853	2.030	2.500	2.482	2.541
2.000	3.000	1.437	1.853	1.930	1.853	2.030	2.500	2.482	2.541
2.125	3.125	1.437	1.853	1.930	1.853	2.030	2.500	2.482	2.541
2.250	3.250	1.437	1.853	1.930	1.853	2.030	2.500	2.482	2.541
2.375	3.375	1.437	1.853	1.930	1.853	2.030	2.500	2.754	2.541
2.500	3.500	1.437	1.853	2.205	1.853	2.030	2.500	2.754	2.541
2.625	3.625	1.437	1.853	2.205	1.853	2.030	2.500	2.754	2.541
2.750	3.750	1.437	1.853	2.205	1.853	2.030	2.500	2.754	2.541

**CAPI-TXS™ - Dimensional Information\* (mm)**

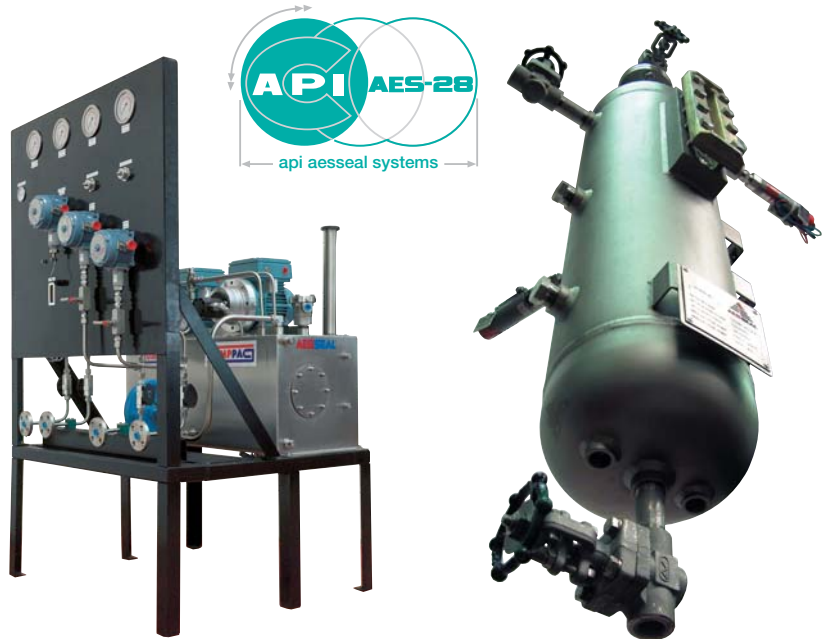
ØA	ØB (MIN)	SINGLE CAPI-TXS A1		SINGLE CAPI-TXS B1		DUAL CAPI-TXS A1		DUAL CAPI-TXS B3	
		C	D	E	F	G	H	J	K
25.00	50.80	36.50	47.07	44.45	47.07	51.56	63.50	58.45	64.54
28.00	53.98	36.50	47.07	44.45	47.07	51.56	63.50	58.45	64.54
30.00	57.15	36.50	47.07	44.45	47.07	51.56	63.50	58.45	64.54
32.00	57.15	36.50	47.07	44.45	47.07	51.56	63.50	58.45	64.54
33.00	60.33	36.50	47.07	49.03	47.07	51.56	63.50	63.04	64.54
35.00	60.33	36.50	47.07	49.03	47.07	51.56	63.50	63.04	64.54
40.00	66.68	36.50	47.07	49.03	47.07	51.56	63.50	63.04	64.54
43.00	69.85	36.50	47.07	49.03	47.07	51.56	63.50	63.04	64.54
45.00	70.03	36.50	47.07	49.03	47.07	51.56	63.50	63.04	64.54
48.00	76.20	36.50	47.07	49.03	47.07	51.56	63.50	63.04	64.54
50.00	76.20	36.50	47.07	49.03	47.07	51.56	63.50	63.04	64.54
53.00	79.38	36.50	47.07	49.03	47.07	51.56	63.50	63.04	64.54
55.00	82.55	36.50	47.07	49.03	47.07	51.56	63.50	63.04	64.54
58.00	85.73	36.50	47.07	49.03	47.07	51.56	63.50	69.95	64.54
60.00	85.73	36.50	47.07	49.03	47.07	51.56	63.50	69.95	64.54
63.00	88.90	36.50	47.07	56.00	47.07	51.56	63.50	69.95	64.54
65.00	90.08	36.50	47.07	56.00	47.07	51.56	63.50	69.95	64.54
68.00	95.25	36.50	47.07	56.00	47.07	51.56	63.50	69.95	64.54
70.00	95.25	36.50	47.07	56.00	47.07	51.56	63.50	69.95	64.54

\* Dimensions shown are typical and for general information. Inboard and outboard working lengths can be adjusted to suit individual applications.

# API Seal Support Systems

It would be inappropriate to produce an industry leading range of seals only to be let down by the quality of seal support systems. For these reasons, AESSEAL® has designed a range of Lloyds certified, API seal support systems which work in harmony with the full range of CAPI™ mechanical seals.

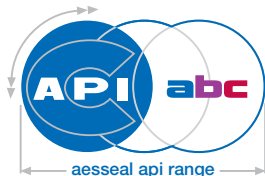
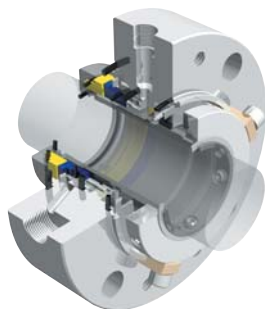
They are also based around the modular principle of the AES-15™ and AES-28™ vessels which can be adapted to suit on site specifications using a range of add-on instrumentation packages. For more information on the options available order the API systems brochure. This and other brochures can be ordered from marketing@aes seal.com or downloaded from our website at www.aes seal.com.



## CAPI™ 610 & 682 Range

As well as the CAPI-TXS™ range there is also a CAPI™ 610 & 682 single and dual seal range available. Based around the same modular technology, these seals consist of many rotary and stationary pusher and bellows designs, with hydraulically balanced seal faces.

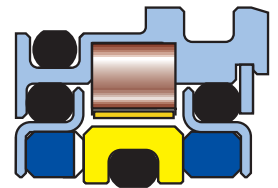
For more information or to download this brochure contact marketing@aes seal.com or visit www.aes seal.com.



## API Bearing Protectors

The MagTecta OM™ is designed specifically for oil mist recirculation, the modern API compliant and environmentally friendly option to lubricate bearings.

For more information or to download this brochure contact marketing@aes seal.com or visit www.bearingprotection.com.



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**USE DOUBLE MECHANICAL SEALS WITH HAZARDOUS PRODUCTS. ALWAYS TAKE SAFETY PRECAUTIONS:**

- GUARD YOUR EQUIPMENT
- WEAR PROTECTIVE CLOTHING



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