

- O RINGS
- gaskets

BOILER MAINTENANCE

MECHANICAL SEALS =

- PUMP PACKING'S
- RØTARY SHAFT SEALS
 - PRESSURE GAUGES
- INDUSTRIAL STRENGTH ADHESIVES
 - CIRCLIPS & BONDED WASHERS
 - PNEUMATIC CYLINDER SEALS
 - HYDRAULIC CYLINDER SEALS
 - EXTRUSIONS
 - SHEETING 📕





ABBEY SEALS WATER PUMP TYPE SEALS





GASKET CUTTERS SEAL DISTRIBUTORS

INTRODUCTION

Abbey Seals supply a substantial range of cost effective and reliable water pump seals, that are commonly utilised in high volume commercial, domestic and industrial water systems. These seal types generally serve applications such as swimming pools, spa pools, shower pumps, central heating systems, irrigation and light fluid duties.

Seal performance and life is frequently compromised by the nature of these applications and the fact that water is a poor lubricator of seal faces. As such, our standard stock product as shown on the following pages, incorporates superior seal face materials. That's our ethos, focusing upon seal performance. We can also manufacture and supply to enquires in more competitive standard materials.

ABBEY SEALS ADVANCED DESIGN WATER PUMP SEALS

Types 60 and 65

Sleeve mounted, rubber bellows seals of compact unitised design. Suitable for small shaft diameter, general low pressure applications. These rubber driven, rotary seal types are easily fitted and mass produced, under Abbey Seals' stringent quality procedures.

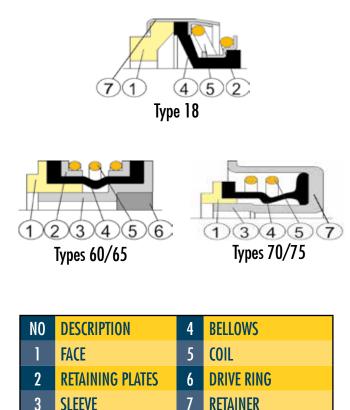
Types 70 and 75

Stationary based, unitised elastomer bellows seals, utilised in small shaft diameter applications. Compact, unitised design, provides excellent flexibility in accommodating shaft mis-alignment and with quality seal face materials, to extend seal performance and life. The adequate shaft clearance enables one size to be used on a number of shaft sizes, whilst being stationary based increases the seals bi-directional rotational speed capabilities.

Type 18

Enclosed rubber bellows seal, with short axial fitting length, ideal for equipment where space is restricted. In addition to the standard Carbon face, Abbey Seals also offer hard face alternatives for more demanding applications. The seal is also fitted with an internal plug as standard to aid assembly, this should be removed before the seal is installed.

STANDARD COMPONENTS



SWIMMING POOL / SPA SEALS

With several decades extensive specific experience, Abbey Seals are leading manufacturers of seals for the International Swimming Pool / Spa Industry. We have a comprehensive range of seal assemblies and designs, backed by an ex-stock service.

Abbey Seals seal and seat face materials, as standard, are superior to industry norms. Exact designs, excellent materials, a wide stock range and the ability to manufacture to any industry design or requirement, complement the Abbey Seals Swimming Pool Seal Range.

ABBEY SEALS DESIGN ADVANTAGES

Material Quality

Wide range of high quality elastomers and seal face materials readily available. Superior seal face material selection, especially Ceramic purity and Carbon quality, increases reliability, capability, performance and life.

Design

The Abbey Seals Water Pump seals are high quality, bi-directional, seal designs containing positively designed material benefits and features.

For instance, the Abbey Seals Type 18;

- The Type 18 is supplied with a fitting plug, as standard, which provides support to the elastomer bellows prior to fitting these seals.
- The Type 18 is of robust bellows design, compared to some competitors' equivalents, which are prone to falling apart on assembly.
- Type 18 is designed to eliminate bellows wear during operation, which can be a fault in competitors designs.
- The Type 18 is fitted with our M106K+ Carbon seal face, which provides superior performance and life.

Cost Effective

These proven, mass produced seals, with their additional benefits and superior material quality, result in an exceptional, cost effective choice of seal.

ABBEY SEALS WATER PUMP TYPE SEALS PV CHART



CHART BASED UPON: CA	RBON VS CERAMIC SEAL FACES
18 - SLEEVED	18 - WITHOUT SLEEVE
60, 65, 70, 75	

SEALS TO SUIT SWIMMING POOL AND SPA PUMP APPLICATIONS

With over twenty five years specific experience, Abbey Seals are leading manufacturers of seals for the International Swimming Pools / Spa Industry. We have a comprehensive range of seals assemblies and designs, backed by an ex-stock service. Water is a poor lubricant and this in combination with the frequent high shaft speeds, possible dry running and the chemicals utilised in pool systems, creates demanding environments for mechanical seal faces. Abbey Seals seal and stationary face materials, as standard, are superior to industry norms. Please see our Face Material Section. In addition, we have specialist Carbon Grades available to exceed the requirements of difficult applications and duties. Exact designs, excellent materials, a wide stock range and the ability to manufacture to any industry design or requirement further enhance the Abbey Seals Swimming Pool Range.



For American Products® 397102, Premier® 31-813 & P19-0, Swim-Rite®, Waterway® & Wet Institute® models.



For Calpeda® & I.T.T. Lowara® models.



For Doll®, Hydronaut® 100, Kripsol® Ondina, & Structural® 100.



For Hayward® Cup Mount, Jacuzzi® 10.486 & 10.487, Showertux® 0755L, Vico® & Premier®.



For Sta-Rite® 5P2R.

Acura Spa Systems® American Products® Ampro-Diadear® Anthony® Aqua-Flo® Arneson® **Astral**® **Badu**® Baker-Hydro® **Calpeda**® **Certikin**® **Challenger**® Christ Kennicott® **Columbia**® D.A.B.® Doll® **Doughboy**® **Dynamo**® **Ebara**® **Espa**® **Eurostar**® Fibrepool® Fluvo® G.G. Industries® **Goldcoast**® Grundfos® Hayward® Hydra-Bath® **Hydronaut**® Hydrotech® I.T.T. Argonaut®

I.T.T. Hydro-Air® I.T.T. Lowara® I.T.T. Marlow® Jacuzzi® **Jandy**® Jet Stream® **Kripsol**® Lee Howl® **Lomart**® Mega® Modern® Muskin® **Nocchi**® Pacific Fabrications® **Pentair**® **Plastica**® **Polaris**® **Premier**® **Purex**® **Showertux**® **Speck**® Sta-Rite Industries® Structural® Stuart Turner® Swim-Rite® Swim-Quip® Vico® Waterco® Waterway Plastics® Wet Institute®

I.T.T. Gemini®



For Astral® Flipper® (post 1986) & Sprint®



For Lee Howl® 4277 & 4278



For Modern® models



For Purex® P28280



For Sta-Rite® U109-136SS



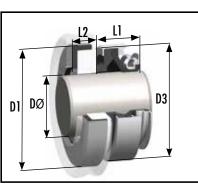
For Sta-Rite® U109-220

Abbey Seals Seals for the all the above Pump Models shown are Guaranteed Ex-Stock. For stock codes, prices and guaranteed stock information, please refer to the Web Portal O.E.M. database and relevant section of the O.E.M. pricelist.

GASKET CUTTERS SEAL DISTRIBUTORS

TYPE 18





Compact, enclosed rubber bellows seal, with a boot mounted stationary with a smooth outer profile. The very short working length makes the Type 18 ideal for equipment where seal chamber space is restricted.

Our Type 18 rotaries are supplied with a "top hat" metal retainer inserted in the tail of the seal, to provide support to the bellows, prior to fitting. Please remove this prior to installation.

ABBEY SEALS STANDARD SIZES

Metric Shaft Size DØ	Size Code	D1	D3	L1	L2
8	0080	26.00	24.00	11.00	8.00
8*	0080.A	17.95	20.00	11.00	4.80
10	0100	26.00	24.00	11.00	8.00
11	0110	26.00	24.00	11.00	8.00
12	0120	26.00	24.00	11.00	8.00
12*	0120.B	26.00	24.00	13.00	8.00
12*	0120.C	35.00	32.00	13.00	8.00
13	0130	26.00	24.00	13.00	8.00
13*	0130.C	26.00	24.00	13.00	5.50
14	0140	35.00	32.00	13.00	8.00
14*	0140.A	38.00	32.00	13.00	8.00
14*	0140.B	29.50	32.00	13.00	7.95
15	0150	38.00	35.00	13.00	8.00
15*	0150.B	29.50	32.00	13.00	7.95
16	0160	38.00	35.00	13.00	8.00
16*	0160.B	42.00	39.00	13.00	8.00
17	0170	42.00	39.00	13.00	8.00
18	0180	42.00	39.00	13.00	8.00
19	0190	42.00	39.00	13.00	8.00
20	0200	42.00	39.00	13.00	8.00
20*	0200.A	35.00	35.00	17.00	7.50
20*	0200.B	45.00	42.00	13.00	10.00
22	0220	45.00	42.00	13.00	10.00
23	0230	50.00	47.00	14.00	10.00
24	0240	50.00	47.00	14.00	10.00
24*	0240.B	42.00	42.00	13.00	9.00
25	0250	50.00	47.00	14.00	10.00
25*	0250.A	50.00	42.00	14.00	10.00
25*	0250.B	39.50	42.00	14.00	8.00
27	0270	50.00	47.00	15.00	10.00
28	0280	57.00	54.00	15.00	10.00
30	0300	57.00	54.00	15.00	10.00
32	0320	57.00	54.00	15.00	10.00
35	0350	63.00	60.00	16.00	10.00
38	0380	68.00	65.00	17.00	12.00
40	0400	68.00	65.00	17.00	12.00
45	0450	73.00	70.00	20.00	12.00
50	0500	88.00	85.00	23.00	15.00
55	0550	88.00	85.00	23.00	15.00
60	0600	110.00	105.00	30.00	15.00
65	0650	110.00	105.00	30.00	15.00
70	0700	110.00	105.00	32.00	15.00

Please note: Type 18 is guaranteed ex-stock in every size and material shown, except Tungsten Carbide.

The asterisked sizes relate solely to special dimensions which are stocked in some, but not all, materials.

Suggested Operating Limits

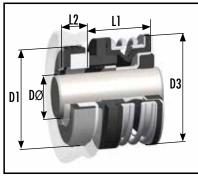
Maximum Operating Pressure Limits primarily depend upon Face Materials, Shaft Size, Speed and Media. Please refer to the Seal Type Specific PV Chart, found at the front of this Brochure Section, in combination with the Abbey Seals Multiplying Factors found in Technical and Material Standards Section 2.

GUARANTEED STOCK MATERIALS AND FACE MATERIAL CODE										
Seal And Seat Assembl	y	Rotary Face		Stationary Fac	е					
Face Reference Term	Code	Material	Code Material		Code					
SOFT	С	M106K Carbon	С	99% Ceramic	Α					
SOFT VS HARD	D	M106K Carbon	C VES2 RB SIC		S					
HARD VS SOFT	G	VES2 RB SIC	S	99% Ceramic	Α					
HARD	S	VES2 RB SIC	S	VES2 RB SIC	S					
HARD 1st ALT	н	н	Tungsten Carbide*	н						
Guaranteed Stock Elas	tomers:	Guar	anteed Stock Metallurgy	: 304SS						

Please refer to the Technical and Material Standards Section for advice and information on our full range of materials, guaranteed stock policies and more advice on operating limits.

TYPE 60





Sleeve mounted, rubber bellows seal, of compact unitised designed, with elastomer shaft drive ring.

Effective design and easily installed, this is a common seal for low pressure, general duty applications on small diameter shafts. Supplied as standard with boot mounted seats, but also available with 'O'-Ring mounted seats to the same installation dimensions.

ABBEY SEALS STANDARD SIZES

ABBET SEALS STANDARD SIZES											
IMPERIAL	SIZE	D	1	D	3	L	1	L	2		
SHAFT SIZE DØ	CODE	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric		
0.375	0095	0.875	22.23	0.937	23.80	0.631	16.02	0.244	6.20		
0.500	0127	1.000	25.40	1.062	26.97	0.654	16.60	0.244	6.20		
0.625	0158	1.250	31.75	1.218	30.94	0.737	18.71	0.405	10.29		
0.750	0191	1.375	34.93	1.343	34.11	0.737	18.71	0.405	10.29		
1.000	0254	1.625	41.28	1.732	44.00	0.812	20.63	0.437	11.10		

Seal And Seat Assembly

Code

р

G

Guaranteed Stock Elastomers: Viton® , E.P. and Nitrile

Material

M106K Carbon

M106K Carbon

VES2 RB SiC

VES2 RB SiC

Face Reference Term

SOFT VS HARD

HARD VS SOFT

SOF

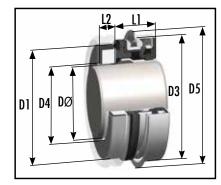
HARD

Suggested Operating Limits

Maximum Operating Pressure Limits primarily depend upon Face Materials, Shaft Size, Speed and Media. Please refer to the Seal Type Specific PV Chart, found at the front of this Brochure Section, in combination with the Abbey Seals Multiplying Factors found in Technical and Material Standards Section 2.

TYPE 70





Stationary based, unitised elastomer bellows seals, utilised in small shaft diameter applications. Compact, unitised design, provides excellent flexibility in accommodating shaft mis-alignment and with quality seal face materials, to extend seal performance and life. The adequate shaft clearance enables one size to be used on a number of shaft sizes, whilst being stationary based increases the seals bidirectional rotational speed capabilities.

Stationary Face

Code

s

Δ

ABBEY SEALS STANDARD SIZES

IMPERIAL SHAFT	L D1		D1 D3		D4		D5		L1		L2		
SIZE DØ	CODE	Imperial	Metric										
0.500	0127	0.984	25.00	1.124	28.56	0.559	14.20	1.248	31.70	0.520	13.20	0.197	5.00
0.625	0158	1.220	31.00	1.435	36.45	0.717	18.20	1.625	41.27	0.583	14.80	0.197	5.00
0.750	0191	1.378	35.00	1.575	40.00	0.843	21.40	1.720	43.70	0.610	15.50	0.197	5.00
1.125	0286	1.890	48.00	2.047	52.00	1.220	31.00	2.250	57.15	0.748	19.00	0.315	8.00

Suggested Operating Limits

Maximum Operating Pressure Limits primarily depend upon Face Materials, Shaft Size, Speed and Media. Please refer to the Seal Type Specific PV Chart, found at the front of this Brochure Section, in combination with the Abbey Seals Multiplying Factors found in Technical and Material Standards Section 2.

GUARANTEED STOCK MATERIALS AND FACE MATERIAL CODE									
Seal And Seat Assembl	у	Rotary Face		Stationary Face					
Face Reference Term	Code	Material	Code	Material	Code				
SOFT	С	M106K Carbon	С	99% Ceramic	Α				
SOFT VS HARD	D	M106K Carbon C		VES2 RB SIC	S				
HARD VS SOFT	G	VES2 RB SIC	S	99% Ceramic	Α				
HARD	S	VES2 RB SIC S		VES2 RB SIC	S				
Guaranteed Stock Elast	tomers: \	Viton® , E.P. and Nitrile	Guar	anteed Stock Metallurgy	: 304SS				

GUARANTEED STOCK MATERIALS AND FACE MATERIAL CODE

Rotary Face

Code

С

s

Material

99% Ceramic

VES2 RB SiC

99% Ceramic

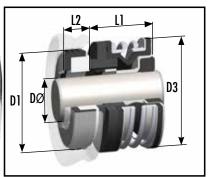
VES2 RB SiC

Guaranteed Stock Metallurgy: 304SS

All types, sizes and materials shown are part of Abbey Seals' Guaranteed Ex-Stock Range, unless marked with an asterisk*. However, the asterisked seal and / or seat face materials are stocked in many, but not all, sizes. Please refer to the Technical and Material Standards Section for advice and information on our full range of materials, guaranteed stock policies and more advice on operating limits.

TYPE 65





Sleeve mounted, rubber bellows seal with shaft drive ring. Similar to Type 60 but with dimensions to suit common American standards.

Effective design and easily installed, this is a common seal for low pressure, general duty applications on small diameter shafts. Supplied as standard with boot mounted seats, but also available with '0'-Ring mounted seats to the same installation dimensions.

GUARANTEED STOCK MATERIALS AND FACE MATERIAL CODE

Rotary Face

E.P. and Nitrile

Code

С

s

Material

99% Ceramic

VES2 RB SiC

99% Ceramic

VES2 RB SiC

Guaranteed Stock Metallurgy: 304SS

Stationary Face

Code

s

Α

ABBEY SEALS STANDARD SIZES

IMPERIAL	SIZE	D	1	D	D3		1	L2		
SHAFT SIZE DØ	CODE	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	
0.375	0095	1.000	25.40	1.062	26.97	0.656	16.66	0.312	7.92	
0.500	0127	1.000	25.40	1.062	26.97	0.656	16.66	0.312	7.92	
0.625	0158	1.250	31.75	1.218	30.94	0.718	18.24	0.406	10.31	
0.750	0191	1.375	34.93	1.343	34.11	0.718	18.24	0.406	10.31	
1.000	0254	1.625	41.28	1.732	44.00	0.812	20.62	0.437	11.10	

Seal And Seat Assembly

Suaranteed Stock Flastomers

Code

D

G

Material

M106K Carbon

M106K Carbon

VES2 RB SiC

VES2 RB SiC

Viton®

Face Reference Term

SOFT VS HARD

HARD VS SOFT

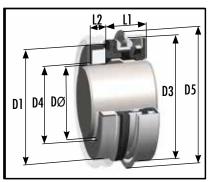
HARD

Suggested Operating Limits

Maximum Operating Pressure Limits primarily depend upon Face Materials, Shaft Size, Speed and Media. Please refer to the Seal Type Specific PV Chart, found at the front of this Brochure Section, in combination with the Abbey Seals Multiplying Factors found in Technical and Material Standards Section 2.

TYPE 75





Stationary based, unitised elastomer bellows seals, utilised in small shaft diameter applications. Compact, unitised design, provides excellent flexibility in accommodating shaft mis-alignment and with quality seal face materials, to extend seal performance and life. The adequate shaft clearance enables one size to be used on a number of shaft sizes, whilst being stationary based increases the seals bi-directional rotational speed capabilities.

ABBEY SEALS STANDARD SIZES

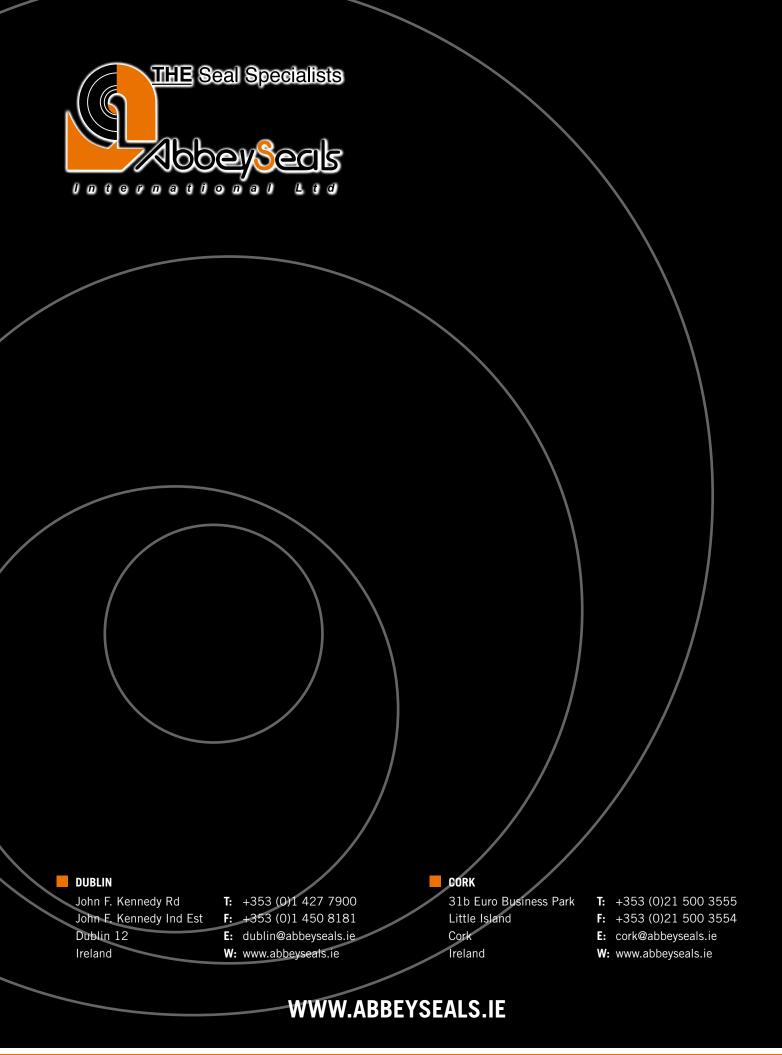
IMPERIAL D1 SHAFT SIZE		D	3	D	4	D	5	L	1	L	2		
SIZE DØ	CODE	Imperial	Metric										
0.500	0127	1.000	25.40	1.124	28.56	0.559	14.20	1.248	31.70	0.543	13.79	0.312	7.93
0.625	0158	1.250	31.75	1.435	36.45	0.717	18.20	1.625	41.27	0.605	15.36	0.406	10.31
0.750	0191	1.375	34.93	1.575	40.00	0.843	21.40	1.720	43.70	0.605	15.36	0.406	10.31

Suggested Operating Limits

Maximum Operating Pressure Limits primarily depend upon Face Materials, Shaft Size, Speed and Media. Please refer to the Seal Type Specific PV Chart, found at the front of this Brochure Section, in combination with the Abbey Seals Multiplying Factors found in Technical and Material Standards Section 2.

GUARANTEED STOCK MATERIALS AND FACE MATERIAL CODE										
Seal And Seat Assembl	У	Rotary Face		Stationary Face						
Face Reference Term	Code	Material	Code	Material	Code					
SOFT	С	M106K Carbon	С	99% Ceramic	Α					
SOFT VS HARD	D	M106K Carbon	С	VES2 RB SiC*	S					
HARD VS SOFT	G	VES2 RB SIC*	S	99% Ceramic	Α					
HARD	S	VES2 RB SIC*		VES2 RB SiC*	S					
Guaranteed Stock Elastomers: Viton® , E.P. and Nitrile Guaranteed Stock Metallurgy: 304SS										

All types, sizes and materials shown are part of Abbey Seals' Guaranteed Ex-Stock Range, unless marked with an asterisk*. However, the asterisked seal and / or seat face materials are stocked in many, but not all, sizes. Please refer to the Technical and Material Standards Section for advice and information on our full range of materials, guaranteed stock policies and more advice on operating limits.



■ GASKET CUTTERS ■ SEAL DISTRIBUTORS ■