Exclusive distributor of

Hallite

single acting
piston and rod seals

by

pacific seals

issue one

PROFILE QUICK REFERENCE

Hallite

About Hallite

Hallite Seals International is an ISO 9001 accredited manufacturer and provider of hydraulic and pneumatic seals and sealing solutions to the global fluid power industry. They operate worldwide with major international companies, and are renowned for their commitment to engineering excellence.

For over 100 years Hallite has been at the cutting edge of fluid power technology, manufacturing a wide range of rod/gland, piston, and static seals, as well as support and bearing components, for technically challenging applications. Their proprietary materials are class leading and they also utilise a wide range of more common materials including Polytetrafluoroethylene (PTFE), Polyurethane (AU), nitrile rubbers (NBR) and Fluoro-elastomers (FKM).

Pacific Seals is the sole authorised Hallite distributor for New Zealand. For best results, insist on Hallite.

Profile	Type	Profile	Type
	07 Rod Vee Pack		610 Rod
	09 Piston/Rod Vee Pack		611 Piston/Rod
	11 Rod Vee Pack		616 Rod
	13 Rod Vee Pack		620 Rod
	16 Rod		621 Rod
	18 Piston/Rod		626 Piston
	51 Piston		652 Rod
	52 Piston		653 Rod
	66 Piston Cup		656 Piston
	67 Piston Cup		658 Rod
	117 Piston		659 Piston
	155 Piston		906 Piston
	416 Rod		FR Piston/Rod
	511 Piston/Rod		FRI Rod
	512 Piston/Rod		FRS Piston
	513 Piston/Rod		LCO/LCW Piston Cup
	601 Piston/Rod		PIP Ring Piston
	605 Rod		PU Piston Cup
	606 Rod		UBR Rod

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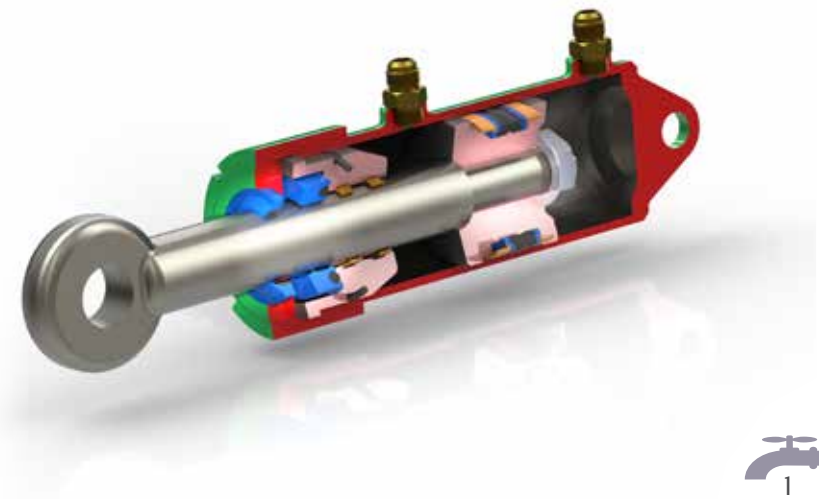
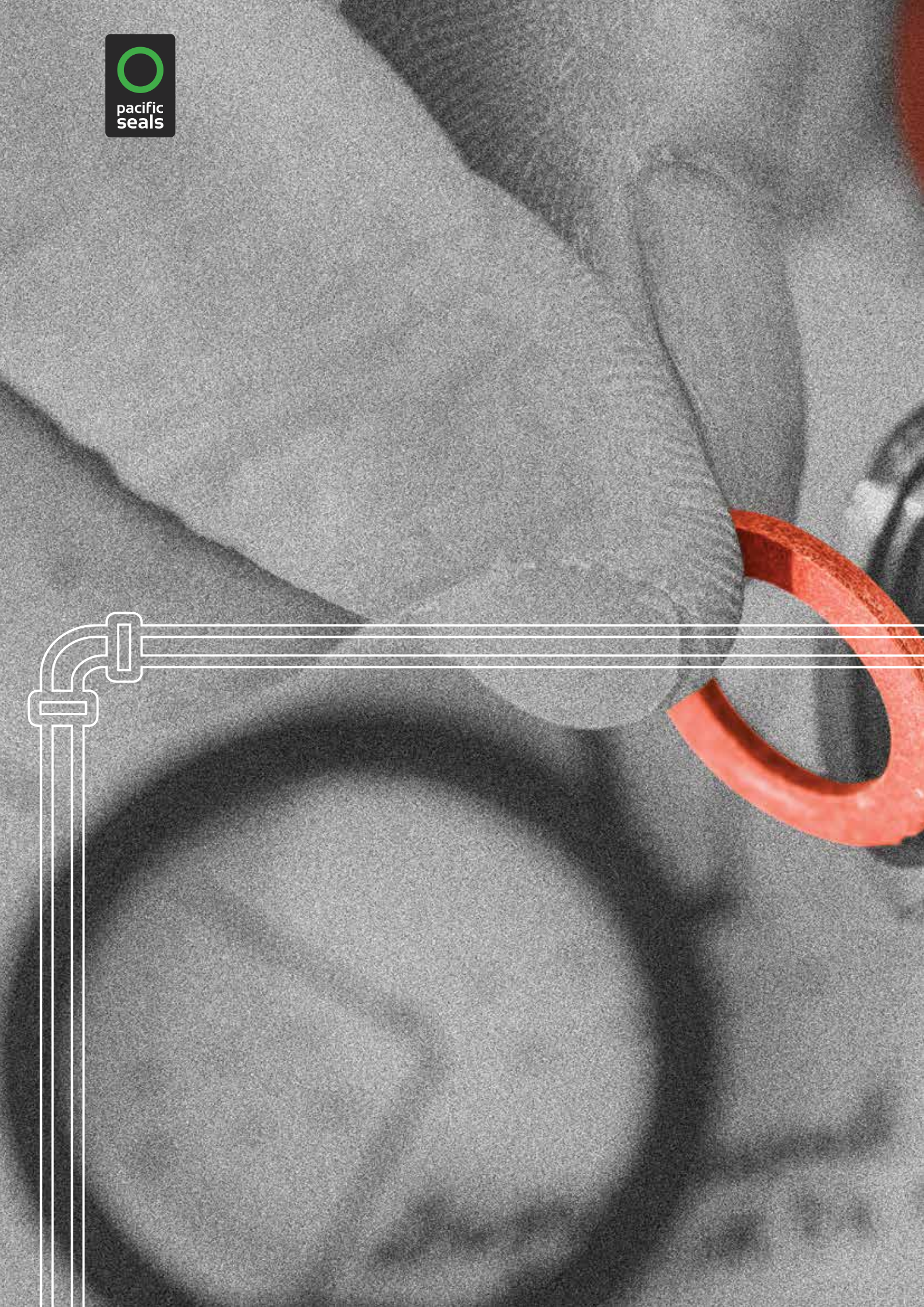
Forma Custom Seal Design Form **302**

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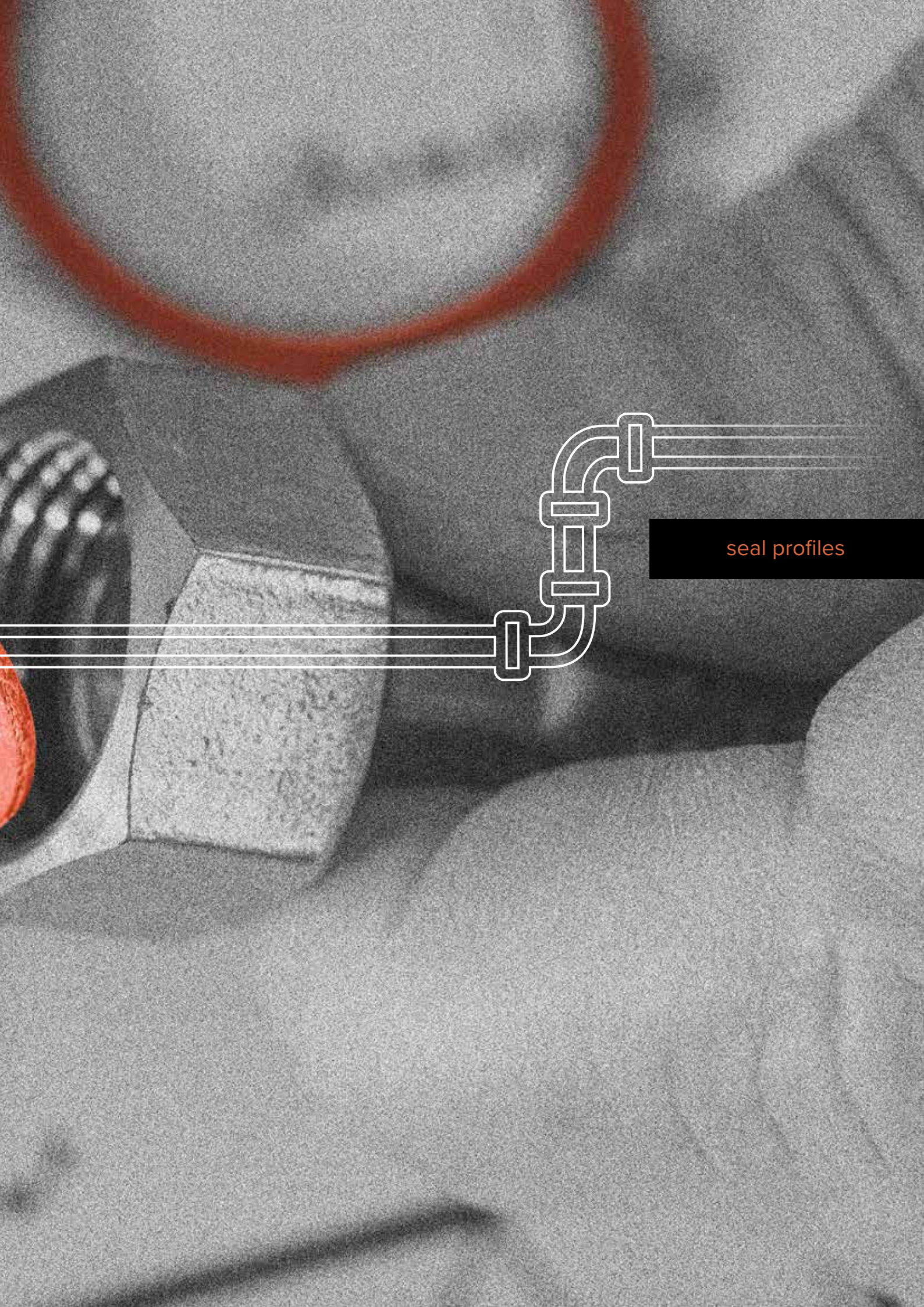
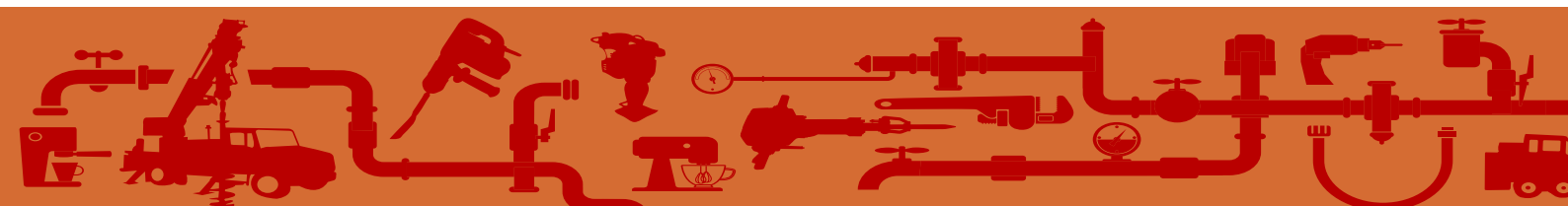


seal profiles

PROFILE	DESCRIPTION	TYPE	BAR	SPEED	MAX. TEMP	MATERIAL	PAGE
	Rod Seal	**07**	700	0.5m/s	100°C	Rubberised fabric	06
	Piston/Rod Seal	**09**	400	0.5m/s	100°C	Nitrile	08
	Rod Seal	**11**	400	0.5m/s	100°C	Rubberised fabric	10
	Rod Seal	**13**	700	0.5m/s	100°C	Rubberised fabric	12
	Rod Seal	**16**	300	4.0m/s	100°C	PTFE	14
	Piston/Rod Seal	**18**	300	0.5m/s	100°C	Rubberised fabric	16
	Piston Seal	**51**	700	0.5m/s	100°C	Rubberised fabric	18
	Piston Seal	**52**	600	0.8m/s	100°C	Rubberised fabric	20
	Piston Seal	**66**	170	0.5m/s	100°C	Rubberised fabric	22
	Piston Seal	**67**	17	0.5m/s	90°C	Nitrile	24
	Piston Seal	**117**			260°C	PTFE	26
	Piston Seal	**155**	500		60°C-100°C	Urethane	28
	Rod Seal	**416**	300	4.0m/s	100°C	PTFE	30
	Piston/Rod Seal	**511**	350	0.5m/s	110°C	Polyurethane or Polyester	32
	Piston/Rod Seal	**512**	350	0.5m/s	110°C	Polyurethane or Polyester	34
	Piston/Rod Seal	**513**	350	0.5m/s	110°C	Polyurethane or Polyester	36
	Piston/Rod Seal	**601**	400	1.0m/s	110°C	Urethane	38
	Rod Seal	**605**	400	1.0m/s	110°C	Urethane	40
	Piston Seal	**606**	400	1.0m/s	110°C	Urethane	42



PROFILE	DESCRIPTION	TYPE	BAR	SPEED	MAX. TEMP	MATERIAL	PAGE
	Rod Seal	**610**	400	1.0m/s	110°C	Urethane	44
	Piston/Rod Seal	**611**	240	1.0m/s	110°C	Urethane	46
	Rod Seal	**616**	240	1.0m/s	110°C	Urethane	48
	Rod Seal	**620**	400	1.0m/s	110°C	Urethane	50
	Rod Seal	**621**	700	1.0m/s	110°C	Urethane, NBR & Polyacetate	52
	Piston Seal	**626**	700	1.0m/s	110°C	Urethane	54
	Rod Seal	**652**	700	1.0m/s	110°C	Polyurethane, NBR & Polyacetate	56
	Rod Seal	**653**	700	1.0m/s	110°C	Urethane & Polyacetate	58
	Piston Seal	**656**	400	1.0m/s	110°C	Urethane	60
	Rod Seal	**658**	400	1.0m/s	110°C	Urethane	62
	Piston Seal	**659**	400	1.0m/s	110°C	Urethane	64
	Piston Seal	**906**	350	0.5m/s	110°C	Nitrile	66
	Piston/Rod Seal	**FR**	400	0.5m/s	100°C	Rubberised fabric & Nitrile	68
	Rod Seal	**FRI**	400	0.5m/s	100°C	Rubberised fabric & Nitrile	70
	Piston Seal	**FRS**	400	0.5m/s	100°C	Nitrile & NBR	72
	Piston Seal	**LCO LCW**	20 7	0.3m/s	80°C 35°C	Leather	74
	Piston Seal	**Pip Ring**	340		95°C	Urethane	76
	Piston Seal	**PU**	80		95°C	Urethane	78
	Rod Seal	**UBR**	340	0.9m/s	95°C	Urethane	80

Design

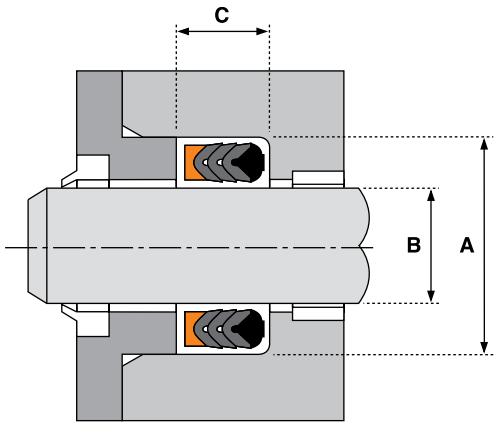
The Type 07 is a multi lip rod seal, for medium to heavy duty applications, composed of a header ring, vee rings and a female adaptor.

The header ring is the primary seal. It is a bonded construction of a rubberised fabric vee ring and rubber. When installed the section is pre-loaded to seal at low pressure but has the strength and durability of the fabric to operate at higher pressures. Rubberised fabric is also used for the vee rings. These provide secondary sealing as pressure acting on the header ring spreads the vee rings increasing the sealing area. The female adaptor provides the support and protection from extrusion damage. It is manufactured in either polyacetal or hard rubberised fabric. The assembly is a pressure activated packing that does not require any axial pre-load.

The range has a header ring, a female adaptor and 2 vee rings. Other sizes and constructions are available on request. Contact Pacific Seals for more information.

Features

- Effective Dri-Rod seal under both high and low pressure conditions
- Precision moulded vee rings
- Pressure activated
- No adjustment necessary



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Maximum Speed	0.5 m/sec	1.5 ft/sec
Temperature Range	-30°C + 100°C	-22°F + 212°F
Maximum Pressure	700 bar	10,000 p.s.i.

ROD SEALS - SINGLE ACTING

VEE PACK SEALS - SINGLE ACTING

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Design

Type 09 vee packings are manufactured from fabric reinforced high grade nitrile rubber, which is normally used in multiples in a set with a male and female adaptor. The parts are 'stacked' together and must be lubricated liberally with clean operating fluid prior to assembly.

The packing must be axially pre-loaded by the housing. This preload works through the male adaptor on the pressure side, exerting a hinging action on the vees, forcing the sealing lips apart to ensure a low pressure seal.

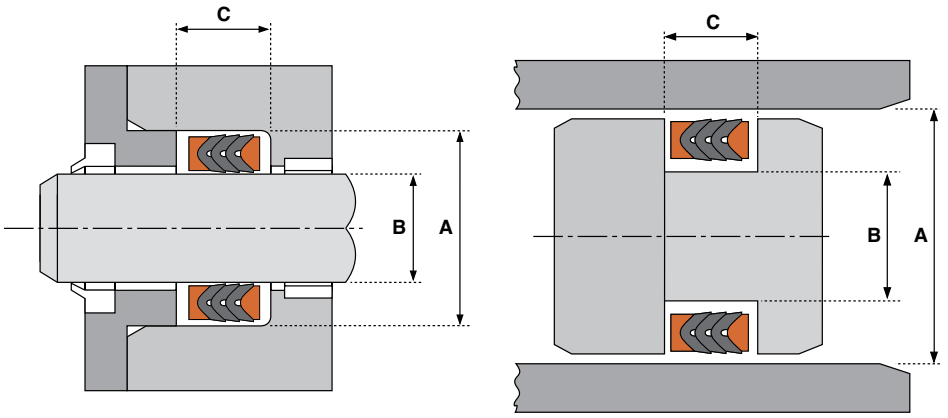
As the pressure increases, so the hinging action increases, increasing the effectiveness of the seal even where severe vibration, shock loading and knuckling may occur.

The standard Type 09 comprises of three vees and two adaptors, available in metric and imperial inch sizes. In addition standard American inch sizes are availible. Some adaptors are rubber fabric while others are polyacetal resin. Individual vee rings are stocked to supplement the sets, but it should be noted that individual adaptors are only available in special circumstances.

For sizes not listed or for special requirements, please contact Pacific Seals.

Features

- Effective Dri-Rod seal under both high and low pressure conditions
- Precision moulded vee rings
- Pressure activated
- No adjustment necessary



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Maximum Speed	0.5 m/sec	1.5 ft/sec
Temperature Range	-30°C + 100°C	-22°F + 212°F
Maximum Pressure	400 bar	6,000 p.s.i.

VEE PACK SEALS - SINGLE ACTING

VEE PACK SEALS - SINGLE ACTING

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Design

The Type 11 is a vee pack rod seal for medium duty applications offering excellent performance and long life even under difficult operating conditions such as pressure surges, vibration and some misalignment. The seal consists of a male and female adaptor and 5 vee rings.

The male adaptor is usually manufactured from polyacetal but some of the larger sizes use rubberised fabric. It has grooves across one face to ensure equal pressure to the sealing edges of the vee ring.

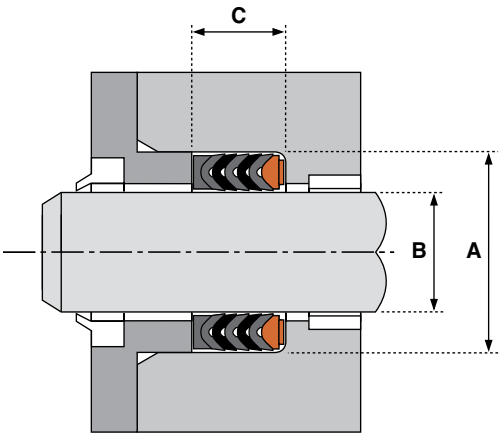
All sizes have three vee rings manufactured from rubberised fabric because this has strength and durability and permits an oil film to lubricate the other parts of the seal. Two rubber vee rings are supplied between the rubberised fabric vee rings (up to and including 140mm diameter) to aid low pressure sealing.

The female adaptor uses a hard rubberised fabric to support the vee rings and protect them from extrusion damage. At high pressure the lips of the adaptor acts as a secondary seal.

The proportions of the range have been determined to give a satisfactory performance when used with the recommended operating conditions.

Features

- Precision moulded vee rings
- Pressure distribution adaptors
- Reliable sealing



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Maximum Speed	0.5 m/sec	1.5 ft/sec
Temperature Range	-30°C + 100°C	-22°F + 212°F
Maximum Pressure	400 bar	6,000 p.s.i.

VEE PACK SEALS - SINGLE ACTING

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Design

The Type 13 is a vee pack rod seal for heavy duty applications offering excellent performance and long life even under difficult operating conditions such as pressure surges, vibration and some misalignment. The seal assembly consists a male and female adaptor and 5 vee rings.

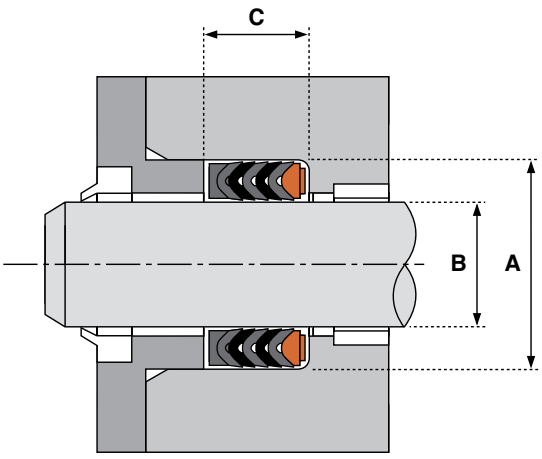
The male adaptor is usually manufactured from polyacetal but some of the larger sizes use rubberised fabric. It has grooves across one face to ensure equal pressure to the sealing edges of the vee ring.

All sizes have vee rings manufactured from rubberised fabric because this has strength and durability and permits an oil film to lubricate the other parts of the seal. Some sizes are supplied with rubber vee rings between the rubberised fabric vee rings.

The female adaptor uses a hard rubberised fabric to support the vee rings and protect them from extrusion damage. At high pressures the lips of the adaptor act as a secondary seal.

Features

- Precision moulded vee rings
- Pressure distribution adaptors
- Reliable sealing



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Maximum Speed	0.5 m/sec	1.5 ft/sec
Temperature Range	-30°C + 100°C	-22°F + 212°F
Maximum Pressure	700 bar	10,000 p.s.i.

VEE PACK SEALS - SINGLE ACTING

ROD SEALS - SINGLE ACTING

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Design

Used in tandem, the Type 16 rod seal provides the designer with a compact low friction seal for light to medium duty hydraulic cylinders.

It has a bronze filled PTFE ring with a pre-loaded lip energised by an O ring. The lip is designed to have a contact area with the rod adequate to retain the media at low pressure. As high pressure acts on the O ring it compresses the lip against the rod increasing the contact area and the effictiveness of the seal.

The bronze PTFE ring has the low frictional properties normally associated with this material but is strengthened by additives to reduce creep. It has a low breakout friction so stick-slip is eliminated.

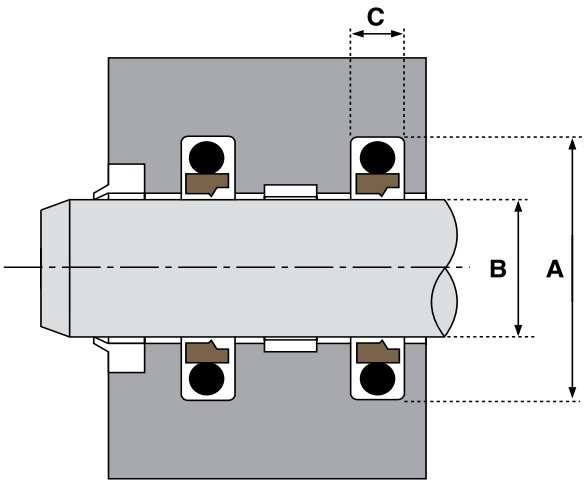
Standard seals are supplied with a nitrile O ring but other materials can be provided.

For the best results it is recommended that two seals are fitted. **The PTFE ring should always be mounted with the sealing lip on the pressure side.** Sizes above 30mm are easily installed by deforming the PTFE ring into a kidney shape, sizes under 30mm are best installed using a tool, details of which can be provided.

A number of material options can be provided to extend operating conditions.

Features

- Ultra low friction
- Compact housing
- Inch sizes available on request
- Seal ring component machined rather than moulded, so any size can be catered for



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Maximum Speed	4 m/sec	12 ft/sec
Temperature Range	-30°C + 100°C	-22°F + 212°F
Maximum Pressure	500 bar	7,500 p.s.i.

Design

A medium to heavy duty single acting seal, the Type 18 seal has shown itself over many years to be an effective and robust seal in a wide variety of applications.

The seal comprises a rubberised fabric U form base to which is bonded a rubber energiser.

The seal section is pre-loaded by the housing when installed to ensure effective sealing at low pressure. When the pressure increases the rubber energises the U form to increase the sealing area and hence the efficiency of the seal. The strength and durability of the rubberised fabric combines with its ability to retain lubricant keeping friction and wear to a minimum.

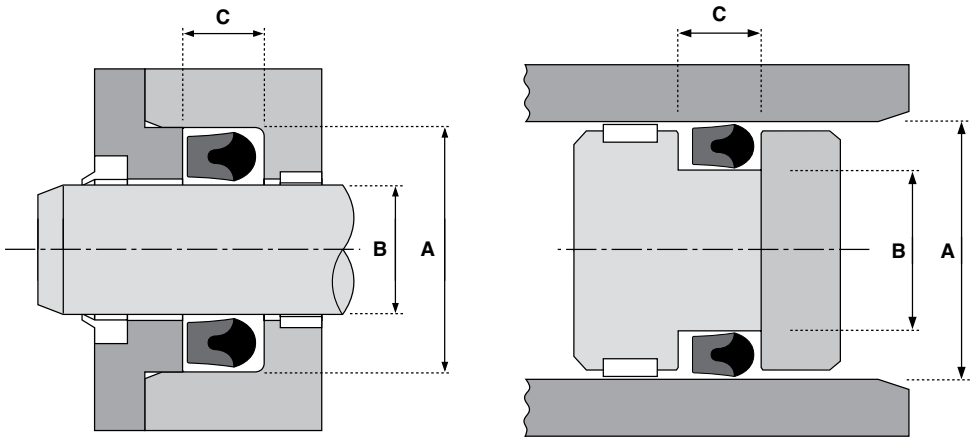
In a piston application the Type 18 should **not** be used back to back to make a double acting assembly.

The range should be fitted to split housings as shown, but some sizes can be fitted to a grooved gland housing, if assembled with care.

Note: Size lists give “on line” tolerances for rod applications.

Features

- Well proven seal
- Contamination resistance
- Good wear resistance



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Maximum Speed	0.5 m/sec	1.5 ft/sec
Temperature Range	-30°C + 100°C	-22°F + 212°F
Maximum Pressure	500 bar	7,500 p.s.i.

PISTON/ROD SEALS - SINGLE ACTING

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PISTON SEALS - SINGLE ACTING

Design

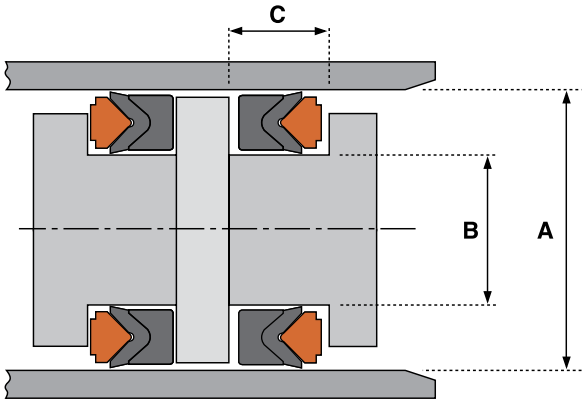
The Type 51 is a heavy duty piston seal which, when installed in pairs, provides an excellent double acting piston design. It is particularly suitable for difficult operating conditions such as pressure surging, vibration or some misalignment.

The seal is an assembly of three parts, a male adaptor, a V ring and a female adaptor. Both the V ring and female adaptor are made from rubberised fabric which has a durability and strength, it also retains lubricant at the sliding surfaces so friction and wear are kept to a minimum. The V ring being the primar seal is more flexible than the adaptor whic supports it and prevents extrusion damage. At higher pressures the adaptor deforms and becomes a secondary seal.

The polyacetal male adaptor has grooves across the face to ensure pressure is evenly applied to the V ring.

Features

- Effective seal for extreme applications
- Precision moulded vee packs
- High load capability
- Pressure activating grooves



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Maximum Speed	0.5 m/sec	1.5 ft/sec
Temperature Range	-30°C + 100°C	-22°F + 212°F
Maximum Pressure	700 bar	10,000 p.s.i.

PISTON SEALS - SINGLE ACTING

PISTON SEALS - SINGLE ACTING

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Design

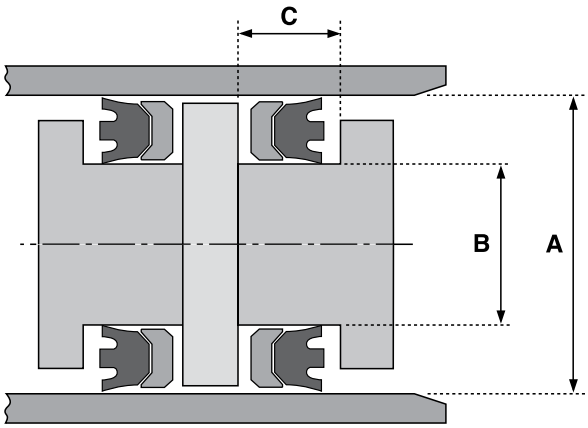
The Type 52 is a two piece piston seal for heavy duty applications which, when installed in pairs, provides an excellent double-acting piston design. It is suitable for difficult operating conditions such as pressure surging, vibration or some misalignment.

Both parts are manufactured from rubberised fabric which gives strength and durability and retains lubrication to keep friction low and reduce wear. By extending the centre of the seal past the sealing edges, they are protected from damage should inter-seal pressure force the seal against the housing wall. Grooves across the protruding face allow pressure to reach both sealing edges.

The support ring is manufactured from a hard rubberised fabric to protect the seal from extrusion damage. The 'U' shape of the ring provides a secondary seal as pressure deforms the lips to increase the sealing area.

Features

- Effective seal for extreme applications
- Precision moulded vee packs
- High load capability
- Pressure activating grooves



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Maximum Speed	0.8 m/sec	2.4 ft/sec
Temperature Range	-30°C + 100°C	-22°F + 212°F
Maximum Pressure	600 bar	9,000 p.s.i.

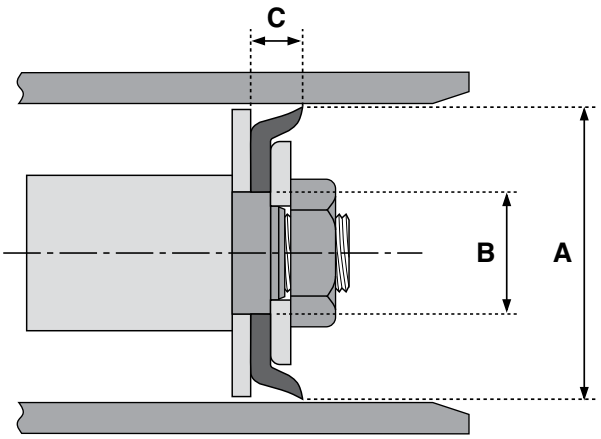
PISTON SEALS - SINGLE ACTING

Design

The Type 66 fabric cup seal is designed for pistons in either single or double acting medium duty applications. Manufactured from rubberised fabric, this provides the seal with a lip which has strength and durability, capable of operating in wide tolerance tube with a generous surface finish. Wear and friction are kept to a minimum because of the ability of the rubberised fabric to retain lubricant in the seal area. The standard range is designed to give a satisfactory performance when used with the recommended operating conditions and installation details.

Features

- Precision moulded
- Long life
- Wide size range
- Tolerates contamination



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Maximum Speed	0.5 m/sec	1.5 ft/sec
Temperature Range	-30°C + 100°C	-22°F + 212°F
Maximum Pressure	170 bar	2,500 p.s.i.

CUP SEALS - SINGLE ACTING

CUP SEALS - SINGLE ACTING

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Design

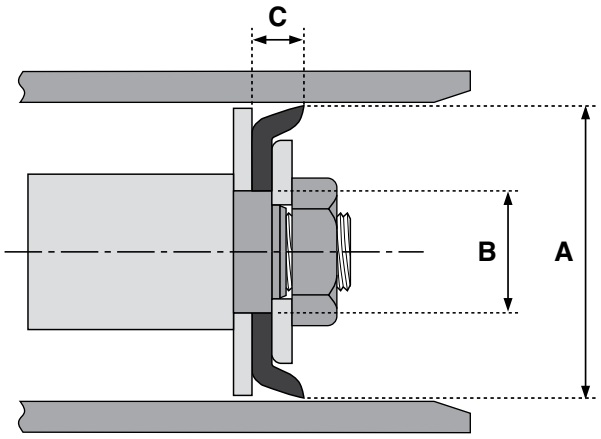
The Type 67 cup seal is designed for use in either single or double acting light duty applications.

Manufactured from nitrile rubber, the seal is responsive to low pressure fluctuations and has very low friction. Ideal for use in pneumatic applications, the Type 67 is also suitable for use in mineral oil based fluids and water.

The range is supplied without a centre hole (B), however the centre is marked for your convenience.

Features

- Flexible for easy installation
- Wide size range
- Long life



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Maximum Speed	0.55 m/sec	1.5 ft/sec
Temperature Range	-30°C + 90°C	-22°F + 194°F
Maximum Pressure	17 bar	250 p.s.i.

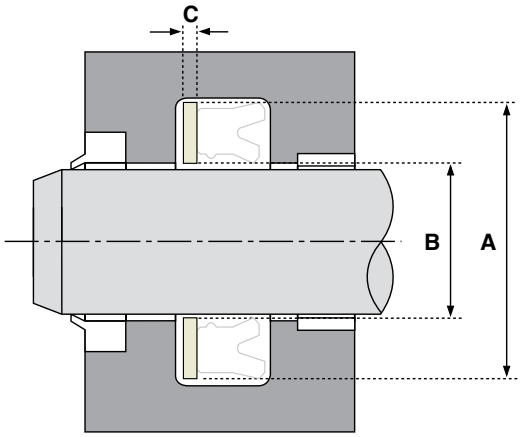
CUP SEALS - SINGLE ACTING

Design

The Type 117 standard backup ring is used primarily as an anti-extrusion device, standard back-up ring are used in both static and dynamic sealing. Made of materials that are resistant to pressure induced flow, the back-up ring keeps a seal from extruding into the clearance gap between mating parts.

Features

- An extra layer of protection
- PTFE construction



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Temperature Range	-40°C + 100°C	-40°F + 210°F

PISTON SEALS - SINGLE ACTING

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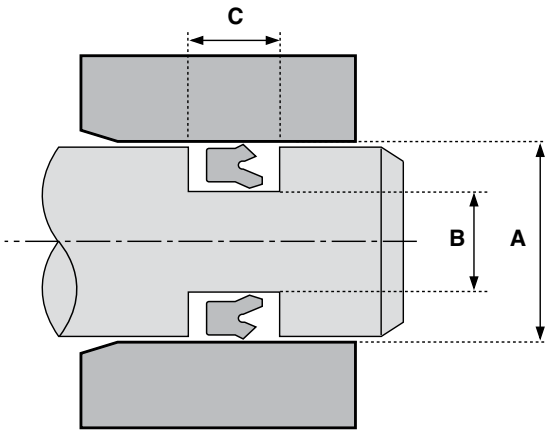
Design

The Type 155 U ring is designed as static seal for cylinders. It is used instead of a conventional O-ring/back-up ring combination. Through its special design and compound, extrusion gaps up to F = 0.4mm at 500 bar pressure are allowed. This seal was developed for HFA applications, but can also be used with standard mineral oil fluids.

Features

- Static Seal
- Used instead of O Ring or Back up Ring



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Temperature Range (HFA Fluids)	-0°C +60°C	32°F +140°F
Temperature Range (Mineral Oil)	-30°C +100°C	-22°F +212°F
Maximum Pressure	500 bar	7,500 p.s.i.

Design

The Type 416 is a buffer seal developed to work in conjunction with high performance rod seals, such as the Type 605 and 621.

It has a bronze filled PTFE ring with a pre-loaded lip energised by an O-Ring. The seal is designed to protect the primary rod seal from pressure spikes in the cylinder. It has a self relieving design in order to prevent excessive pressure build up in the cavity between the buffer seal and the rod seal.

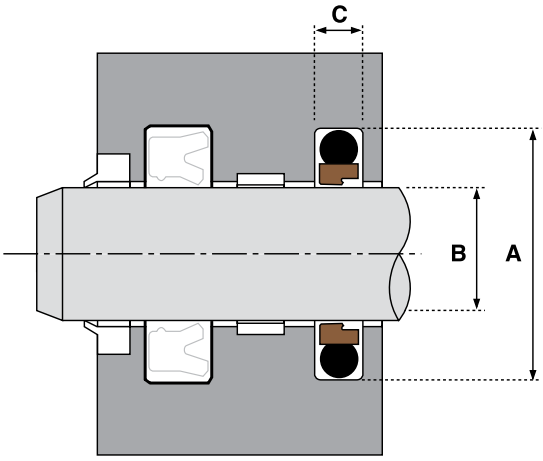
The special PTFE ring has the low frictional properties normally associated with this material but is strenthened by additives to reduce creep. It has a low breakout friction so stick slip is eliminated.

Standard seals are supplied with a nitrile O-Ring but other materials can be provided.

The PTFE ring should always be mounted with the internal step on the pressure side. Sizes above 30mm are easily installed by deforming the PTFE ring into a kidney shape. Sizes under 30mm are best installed using a tool, details of which can be provided.

Features

- Self relieving design prevents pressure trapping
- Low friction - no stick slip
- High strength precision machined PTFE cap ring
- Wide range of materials
- Simple groove design and installation



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Maximum Speed	4 m/sec	12 ft/sec
Temperature Range	-30°C +100°C	-22°F +212°F
Maximum Pressure	300 bar	4,500 p.s.i.

Design

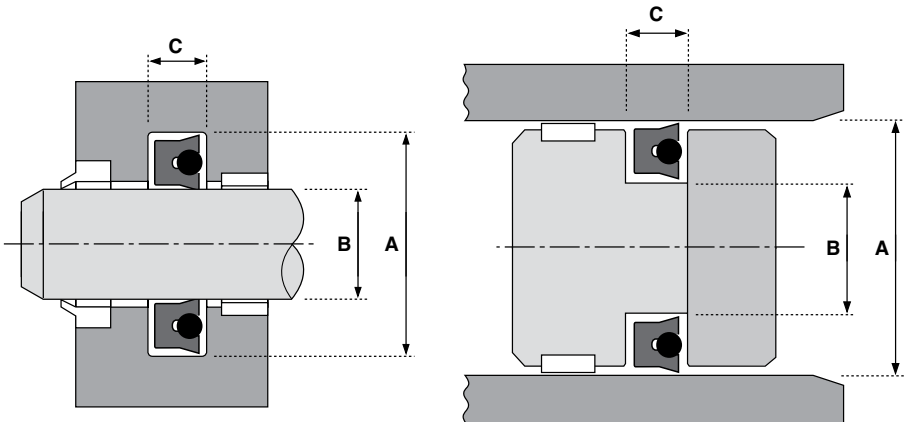
The Type 511 is a loaded U cup utilising a polyurethane or polyester shell energised by a high specification resilient O ring.

At zero or low pressure, the O ring helps to increase the sealing force preventing any bypass. As pressure rises the sealing force increases and the O ring ensures complete lip actuation under most conditions.

The symmetry of the seal allows it to be used on both rod and piston applications and its flexibility enables easy installation. Ideally suited for single acting applications, the Type 511 can also be fitted back to back for use in double acting applications. Other profiles such as 601 and 606 are better options in most situations.

Features

- Flexible for easy installation
- Excellent resistance to abrasion
- Positive lip actuation
- Knife trimmed precision sealing lips
- Compact housing
- Wide range of sizes



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Maximum Speed	0.5 m/sec	1.5 ft/sec
Temperature Range	-40°C +110°C	-40°F +230°F
Maximum Pressure	350 bar	5,000 p.s.i.

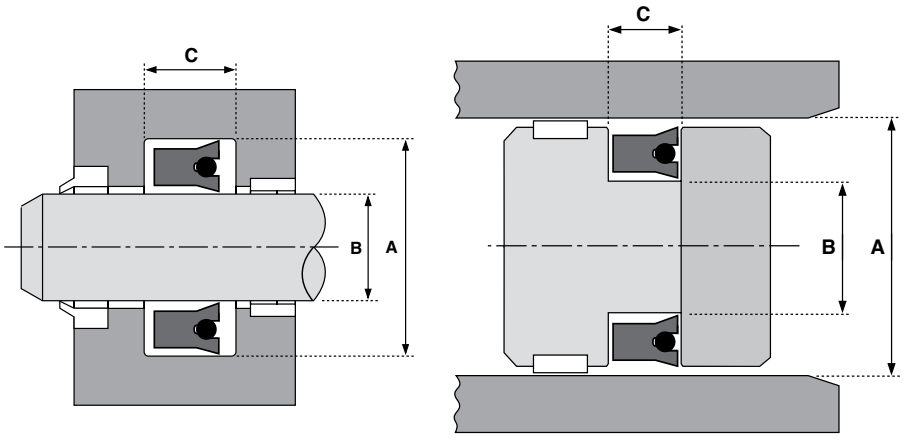
Design

The Type 512 is a standard profile loaded U cup utilising a polyurethane or polyester shell energised by a high specification O ring. At zero or low pressure, the O ring helps to increase the sealing force, preventing any bypass. As pressure rises, so the sealing force increases, with the O-ring ensuring complete lip actuation under most conditions. The deep profile of this seal provides extra stability needed to resist rolling in the groove and together with the knife trimmed precision sealing lips, the results are improved life and sealing.

The 512 can be used for single acting applications or fitted back to back for double acting applications. Other profiles such as 601 and 606 are better options in most situations. Although it can also be used as a rod seal, other profiles like 513, 605 or 621 are a better choice for that application.

Features

- Flexible for easy installation
- Excellent resistance to abrasion
- Positive lip actuation
- Knife trimmed precision sealing lips
- Deep profile for stability
- Wide range of sizes and material options



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Maximum Speed	0.5 m/sec	1.5 ft/sec
Temperature Range	-40°C +110°C	-40°F +230°F
Maximum Pressure	350 bar	5,000 p.s.i.

PISTON/ROD SEALS - SINGLE ACTING

Design

The Type 513 seal is a standard profile loaded U cup utilising a polyurethane or polyester shell energised by a high specification resilient O ring.

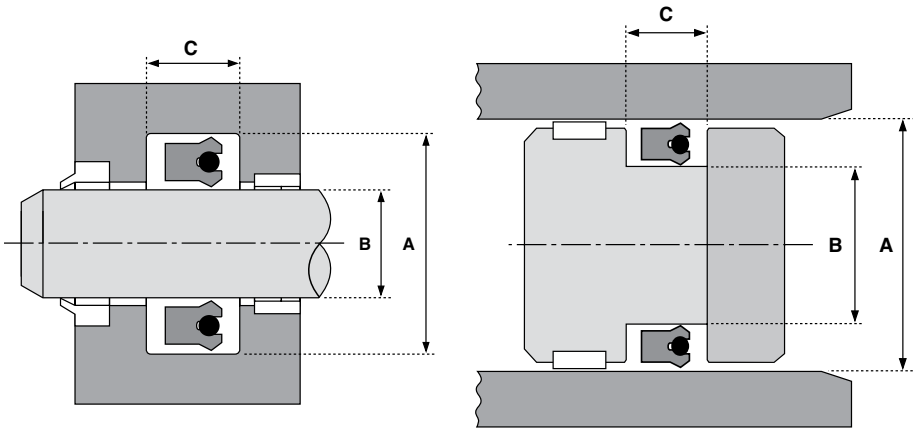
At zero or low pressure the O ring helps to increase the sealing force preventing any bypass. As pressure rises the sealing force increases and the O ring provides complete lip actuation under most conditions.

The precision trimmed sealing lips ensure optimum sealing action.

Note: Pacific Seals recommends the Type 513 only be used in rod applications.

Features

- Flexible for easy installation
- Excellent resistance to abrasion
- Positive lip actuation
- Knife trimmed precision sealing lips
- Compact housing
- Wide range of sizes



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Maximum Speed	0.5 m/sec	1.5 ft/sec
Temperature Range	-40°C +110°C	-40°F +230°F
Maximum Pressure	350 bar	5,000 p.s.i.

PISTON/ROD SEALS - SINGLE ACTING

Design

The Type 601 seal is a high performance general purpose seal suitable for rod and piston use.

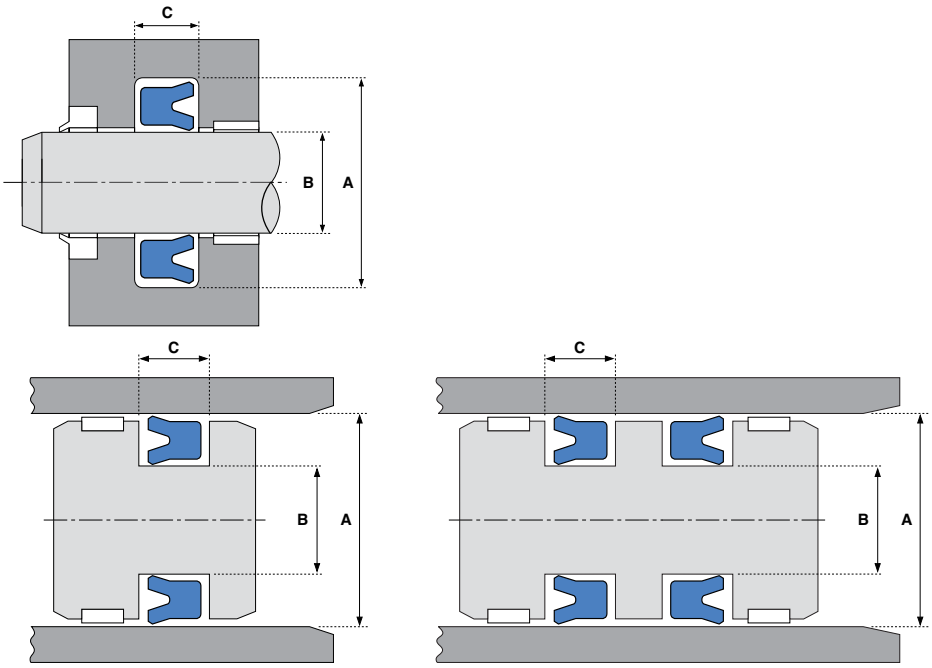
Manufactured in Hythane® 181 – the 601 is engineered to effect a good seal in most industrial cylinder applications.

The sealing lips are accurately machine trimmed to ensure good low pressure sealing while the material resists extrusion at high pressures.

Note: Type 606 is a preferred option for back to back piston applications.

Features

- General purpose seal
- Excellent temperature resistance
- Easy to install



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Maximum Speed	1.0 m/sec	3.0 ft/sec
Temperature Range	-45°C +110°C	-50°F +230°F
Maximum Pressure	400 bar*	6,000 p.s.i.*

* Pressure rating can be extended to 700 bar/10,000 psi with the use of a back up ring.

PISTON/ROD SEALS - SINGLE ACTING

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ROD SEALS - SINGLE ACTING

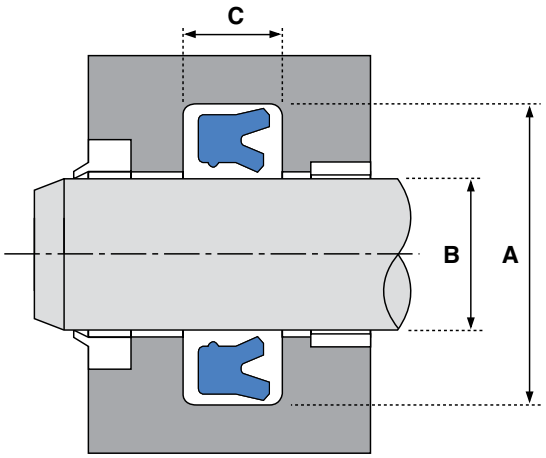
Design

The Type 605 is an asymmetric seal offering superlative dry rod sealing for light to medium duty applications. The 605 has become an industry standard seal worldwide owing to its twin lip profile and consistent performance.

Manufactured in Hythane® - 181, the Hallite 605 is an extremely flexible seal making installation very easy. The ranges cover most standard housings used in Europe, North America and Asia.

Features

- Twin lip design offering: lower friction, improved sealing, primary lip protection, increased seal stability
- Easy installation



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Maximum Speed	1.0 m/sec	3.0 ft/sec
Temperature Range	-45°C +110°C	-50°F +230°F
Maximum Pressure	400 bar*	6,000 p.s.i.*

* Pressure rating can be extended to 700 bar/10,000 psi with the use of a back up ring.

ROD SEALS - SINGLE ACTING

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PISTON SEALS - SINGLE ACTING

Design

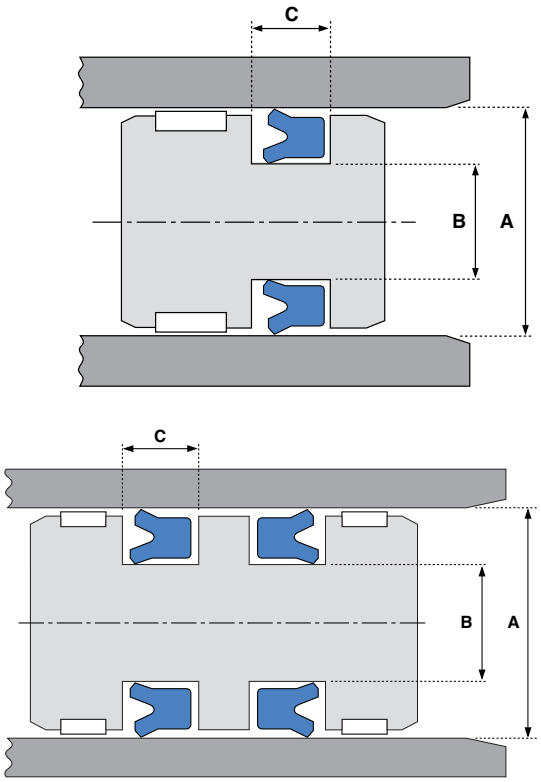
The Type 606 is an asymmetric piston seal designed to offer effective bore sealing in a wide variety of applications.

The outer dynamic lip is shorter and more robust to provide improved sealing and compression set characteristics over conventional U rings. The seal can be used by itself as a single acting seal or fitted back to back in separate grooves for double acting applications.

Manufactured in Hallite's high performance polyurethane Hythane® 181, The Hallite 606 provides a flexible, robust seal.

Features

- Flexible for easy installation
- Excellent wear resistance
- Robust design



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Maximum Speed	1.0 m/sec	3.0 ft/sec
Temperature Range	-45°C +110°C	-50°F +230°F
Maximum Pressure	400 bar*	6,000 p.s.i.*

* Pressure rating can be extended to 700 bar/10,000 psi with the use of a back up ring.

PISTON SEALS - SINGLE ACTING

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ROD SEALS - SINGLE ACTING

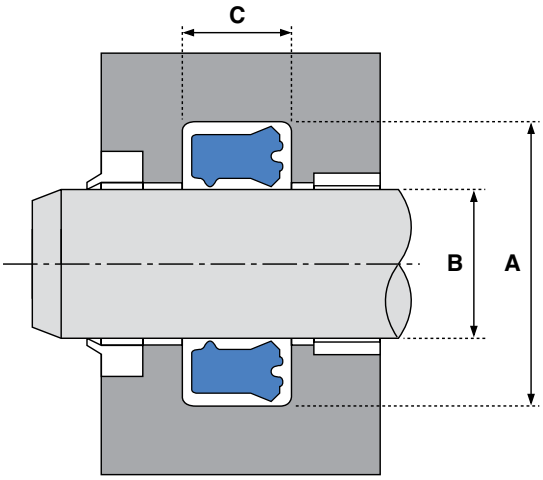
Design

The Hallite 610 is an asymmetric “solid” seal offering excellent dry rod sealing for light and medium duty applications. It is designed to be less sensitive to pressure fluctuations than the Type 605 ‘U’ ring design.

Manufactured in Hallite’s high performance polyurethane - Hythane® 181 - the Type 610 is an extremely flexible seal making installation very easy.

Features

- Insensitive to pressure fluctuations
- Twin lip design offering lower friction, improved sealing, primary lip protection and increased seal stability



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Maximum Speed	1.0 m/sec	3.0 ft/sec
Temperature Range	-45°C +110°C	-50°F +230°F
Maximum Pressure	400 bar	6,000 p.s.i.

ROD SEALS - SINGLE ACTING

PISTON/ROD SEALS - SINGLE ACTING

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Design

The Type 611 seal is a one piece symmetrical seal suitable for rod and piston use. It is a compact seal for 'square' type housings, for light duty applications.

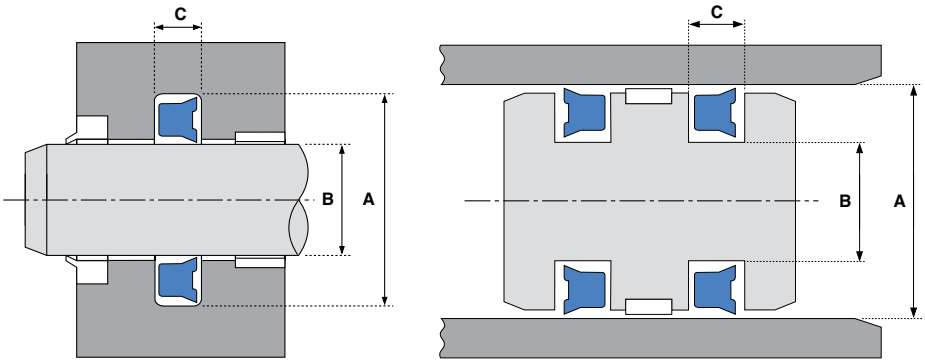
It is manufactured from Hallite's high performance polyurethane – Hythane 181, which is an extremely flexible material and makes installation very easy.

The sealing lips are accurately machine trimmed to ensure good low pressure sealing whilst the material resists extrusion at high pressure.

Note: Size lists give 'on line' tolerances for rod applications.

Features

- Flexible for quick and easy installation
- Excellent temperature range compatibility
- Light duty seal for 'square' North American housings



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Maximum Speed	1.0 m/sec	3.0 ft/sec
Temperature Range	-45°C +110°C	-50°F +230°F
Maximum Pressure	240 bar	3,500 p.s.i.

PISTON/ROD SEALS - SINGLE ACTING

Design

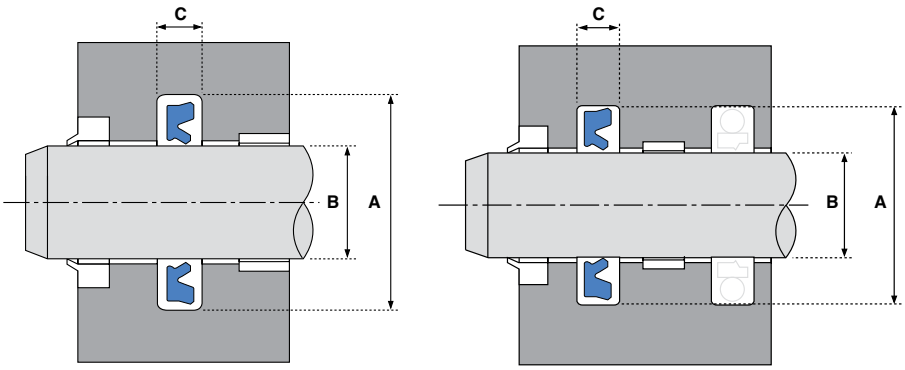
The Type 616 is a revolutionary seal from Hallite. Incorporating the sealing efficiency of the Hallite 605 with the compact grooves used by PTFE rod-step seals.

Hallite's 616 is an asymmetric twin lip seal, designed for light and medium duty applications where space and friction are at a premium. Manufactured in Hallite's high performance polyurethane Hythane 181, the Hallite 616 is an extremely flexible seal making installation very easy

Note: Type 616 is used either as a single seal or in a combination with Type 16. The latter arrangement is recommended when pressure peaks can occur, as in cylinders with cushioning, in this case the Type 16 is fitted into the pressure side of the housing while the Hallite 616 ensures minimal leakage sealing. It is recommended that the Pacific Seals support office be consulted when considering this arrangement.

Features

- Easy assembly
- Twin lip performance
- ISO 7425 housings



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Maximum Speed	1.0 m/sec	3.0 ft/sec
Temperature Range	-45°C +110°C	-50°F +230°F
Maximum Pressure	240 bar	3,500 p.s.i.

ROD SEALS - SINGLE ACTING

Design

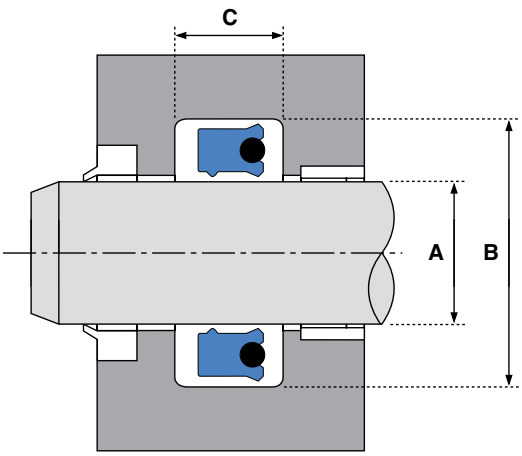
The Type 620 design incorporates features from the Type 621 to provide a twin lip alternative to the Type 500 series products.

On Hallite versions of the Type 620, the shell is moulded in Hallite's high performance polyurethane – Hythane 181 – ensuring flexibility for easy installation and performance at low temperatures.

The 620 benefits from the twin lip profile for dry rod sealing.

Features

- Easy installation
- Improved shock handling
- Twin lip design offering lower friction, improved sealing, primary lip protection & increased seal stability
- Complete lip actuation



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Maximum Speed	1.0 m/sec	3.0 ft/sec
Temperature Range	-45°C +110°C	-50°F +230°F
Maximum Pressure	400 bar	6,000 p.s.i.

ROD SEALS - SINGLE ACTING

Design

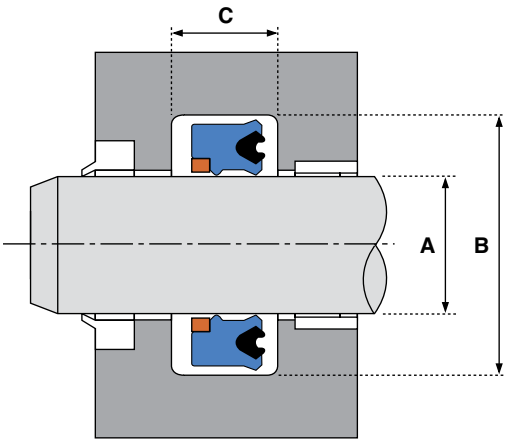
The Type 621 is a top of the range high pressure rod seal. The design of the seal incorporates a unique profiled NBR energiser to ensure complete lip actuation under all pressure conditions and to cushion the seal against shock loadings.

When the shell is moulded in Hallite's high performance polyurethane Hythane 181, flexibility for installation and performance at low temperatures are ensured.

The Type 621 also benefits from Hallite's twin lip profile for dry rod sealing.

Features

- High pressure/shock load capability
- Twin lip design offering lower friction, improved sealing, primary lip protection & increased seal stability
- Polyacetal anti-extrusion ring



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Maximum Speed	1.0 m/sec	3.0 ft/sec
Temperature Range	-45°C +110°C	-50°F +230°F
Maximum Pressure	700 bar	10,000 p.s.i.

ROD SEALS - SINGLE ACTING

Design

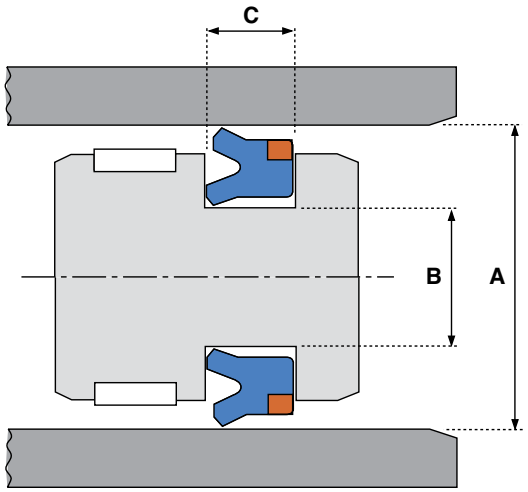
The Type 626 is an asymmetric piston seal designed to offer effective bore sealing in a wide variety of applications. It is fitted with a hard plastic anti extrusion ring for improved extrusion resistance compared with the Type 606 seal.

The outer dynamic lip is shorter and more robust to provide improved sealing and compression set characteristics over conventional U rings. The seal can be used by itself as a single acting seal or fitted back to back in separate grooves for double acting applications.

Hallite's Type 626 is manufactured in high performance polyurethane Hythane® 181.

Features

- Flexible for easy installation
- Excellent wear resistance
- High resistance to extrusion
- Robust design
- Wide temperature range



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Maximum Speed	1.0 m/sec	3.0 ft/sec
Temperature Range	-45°C +110°C	-50°F +230°F
Maximum Pressure	700 bar	10,000 p.s.i.

PISTON SEALS - SINGLE ACTING

Design

The Type 652 is a high pressure rod seal designed specifically for longwall mining applications.

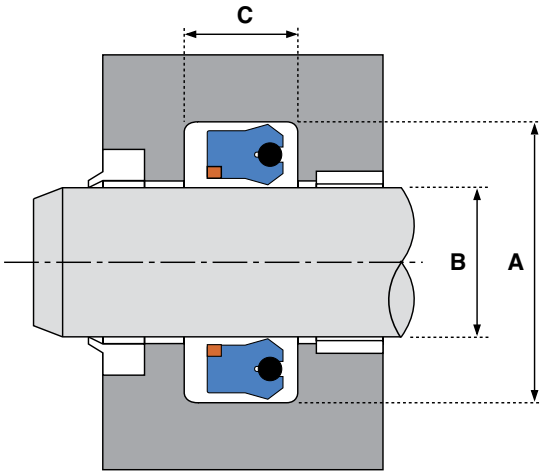
The seal design comprises three elements; a unique profiled NBR energiser*, a polyurethane shell and a polyacetal anti-extrusion ring.

When the shell is manufactured in Hythane 181 to provide flexibility for installation and responsiveness to the sealing lip. The rubber energiser ensures complete lip actuation under all pressure conditions and cushions the seal against shock loadings. The anti-extrusion ring enables the seal to withstand side loads and extreme pressure peaks during operation, even with the extrusion gaps which are the result of using remote plastic bearing strips such as Type 506.

*In some cases an O ring energiser is used.

Features

- High pressure/shock load capability
- Responsive sealing
- Polyacetal anti-extrusion ring



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Maximum Speed	1.0 m/sec	3.0 ft/sec
Temperature Range	-45°C +110°C	-50°F +230°F
Maximum Pressure	700 bar	10,000 p.s.i.

ROD SEALS - SINGLE ACTING

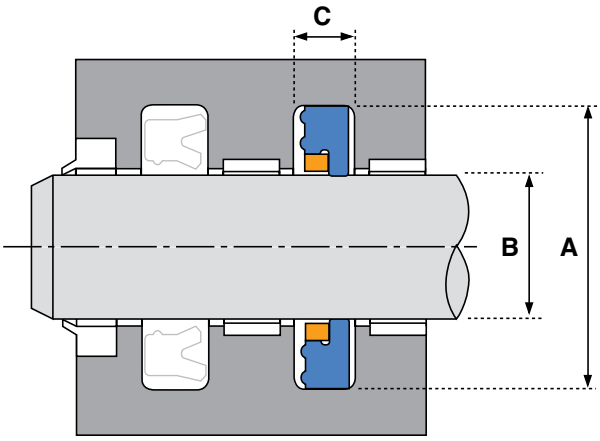
Design

The Type 653 is a buffer seal developed to work in conjunction with high performance rod seals, such as the Type 605 or Type 621. It is also interchangeable with common PTFE buffer seal housings.

The Hallite branded seal, which is manufactured in Hythane 181, is designed to provide a valve action to prevent excessive pressure build up in the cavity between the buffer seal and the rod seal. A polyacetal anti-extrusion ring is fitted to provide maximum extrusion resistance against shock pressure loads.

Features

- Prevents inter-seal pressure build up
- Interchangeable with common BTFE buffer seal housings
- Easy installation
- Long life
- Excellent temperature range



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Maximum Speed	1.0 m/sec	3.0 ft/sec
Temperature Range	-45°C +110°C	-50°F +230°F
Maximum Pressure	700 bar	10,000 p.s.i.

ROD SEALS - SINGLE ACTING

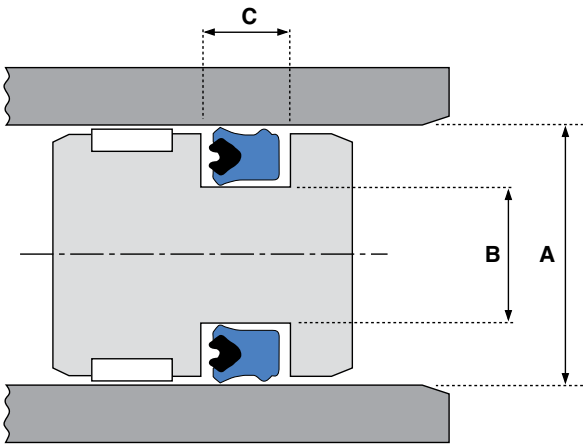
Design

The Type 656 is an asymmetric single acting piston seal. Similar in design to the Type 621 rod seal, the Type 656 offers excellent sealing in light, medium and heavy duty single acting applications.

Manufactured in Hallite's high performance polyurethane Hythane® 181, the Type 656 is an extremely flexible seal making installation easy.

Features

- Twin lip design
- Lower friction and Improved sealing
- Primary lip protection.



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Maximum Speed	1.0 m/sec	3.0 ft/sec
Temperature Range	-45°C +110°C	-50°F +230°F
Maximum Pressure	400 bar	6,000 p.s.i.

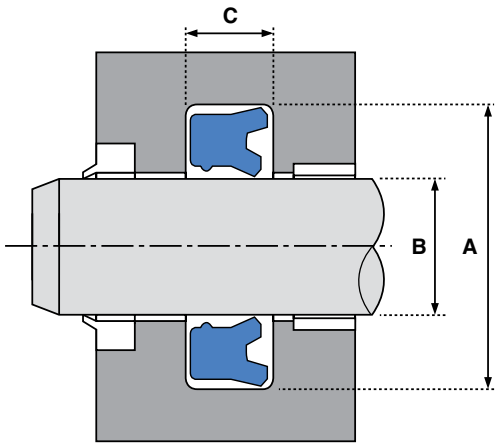
Design

The Type 658 is an asymmetric seal designed specifically to replace an O ring and one back up sealing arrangement. The Type 658 is an extremely flexible seal making installation very easy.

Hallite Type 658 seals are manufactured in Hallite's high performance polyurethane - Hythane® 181.

Features

- Twin lip design offering lower friction, improved sealing, primary lip protection and increased seal stability
- Easy installation



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Maximum Speed	1.0 m/sec	3.0 ft/sec
Temperature Range	-45°C +110°C	-50°F +230°F
Maximum Pressure	400 bar	6,000 p.s.i.

ROD SEALS - SINGLE ACTING

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PISTON SEALS - SINGLE ACTING

Design

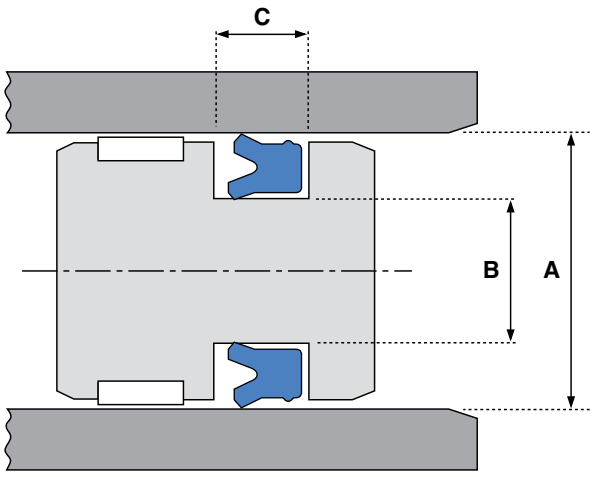
The Type 659 seal is an asymmetric piston seal designed to offer effective bore sealing in a wide variety of applications.The outer dynamic lip is shorter and more robust to provide improved sealing and compression set characteristics over conventional U rings. The seal also features a secondary lip that provides a pocket for lubrication as well as the benefits listed below.

For use in single acting applications only, the seal is manufactured and available in Hallite's high performance polyurethane Hythane® 181.

Note: Variations of this seal are available in other sizes, please contact your local sales office for additional information and technical details.

Features

- Flexible for easy installation
- Excellent wear resistance
- High resistance to extrusion
- Wide temperature range
- Twin lip design for: improved sealing, lower friction, increased seal stability, primary lip protection



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Maximum Speed	1.0 m/sec	3.0 ft/sec
Temperature Range	-45°C +110°C	-50°F +230°F
Maximum Pressure	400 bar	6,000 p.s.i.

PISTON SEALS - SINGLE ACTING

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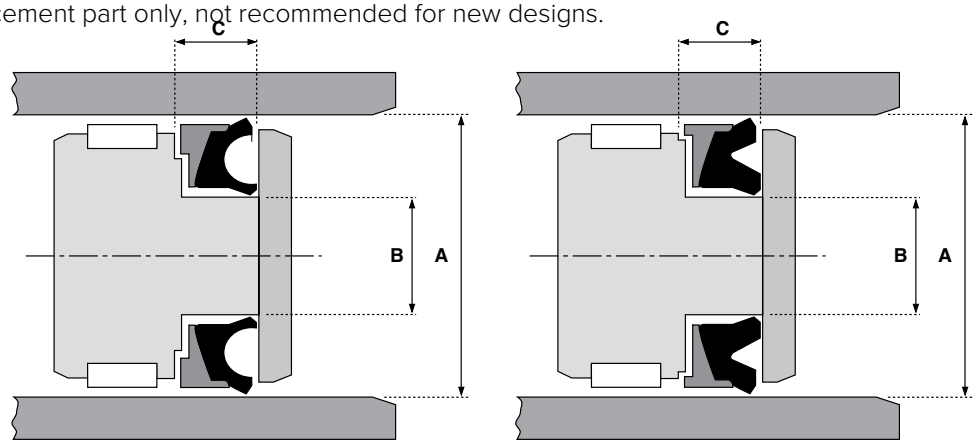
Design

The Type 906 is a single acting seal assembly comprises of a nitrile rubber seal and a contoured nylon back-up.

Usually fitted back to back on double acting pistons found in Japanese and Asian construction equipment, this product is stocked as a replacement part only, not recommended for new designs.

Features

- Easy assembly
- Twin lip performance
- ISO 7425 housings



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Maximum Speed	0.5 m/sec	1.5 ft/sec
Temperature Range	-40°C +100°C	-40°F +212°F
Maximum Pressure	350 bar	5,000 p.s.i.

PISTON SEALS - SINGLE ACTING

PISTON/ROD SEALS - SINGLE ACTING

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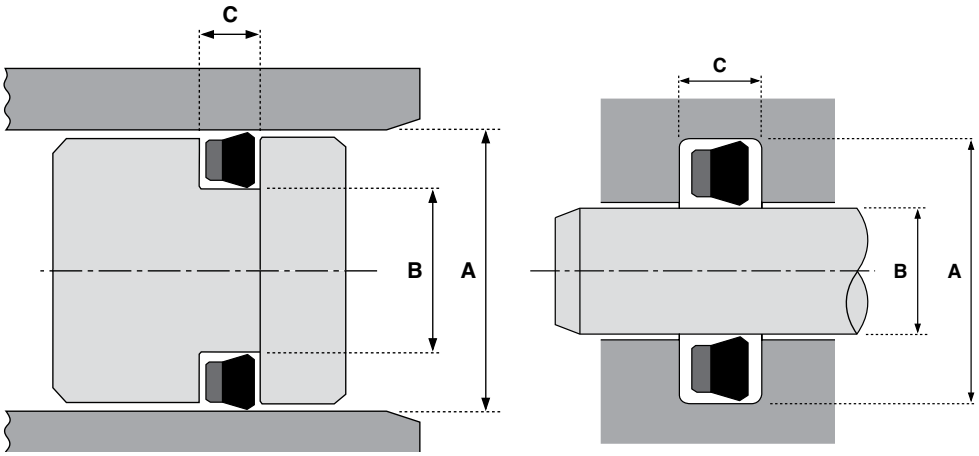
Design

The Type FR seal is designed with a symmetrical profile for use as a single acting Rod or Piston seal. The seal is a precision moulded Nitrile rubber sealing element with a fabric reinforced base to resist extrusion. Designed with initial radial interference to effect low pressure sealing, at higher pressures the seal is energised thus increasing the sealing force. Rubberised fabric has the advantage of retaining the sealing media within it's surface, so reducing friction and wear.

Features

- Excellent wear resistance
- High resistance to extrusion
- Reduced friction



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Maximum Speed	0.5 m/sec	1.5 ft/sec
Temperature Range	-30°C +100°C	-22°F +212°F
Maximum Pressure	400 bar	5,800 p.s.i.

PISTON/ROD SEALS - SINGLE ACTING

ROD SEALS - SINGLE ACTING

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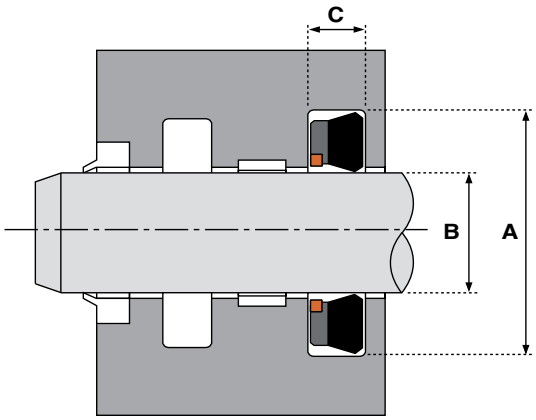
Design

The Type FRI seal is designed for use as a single acting Rod seal. The seal is a precision moulded Nitrile rubber sealing element with a bonded fabric reinforced base to resist extrusion. Type FRI seals also have the added benefit of a clip on polyacetal anti-extrusion ring for larger clearances of higher pressures.

Designed with initial radial interference to effect low pressure sealing, at higher pressures the seal is progressively energised thus increasing the sealing force. Rubberised fabric has the advantage of retaining the sealing media within it's surface, which reduces friction and wear. The Type FRI seal is an effective design over a wide range of applications.

Features

- Progressively energised design
- Suitable for a wide range of applications
- Designed for reduced friction and wear



Key	Description
A	OD
B	ID
C	Height

Technical Details

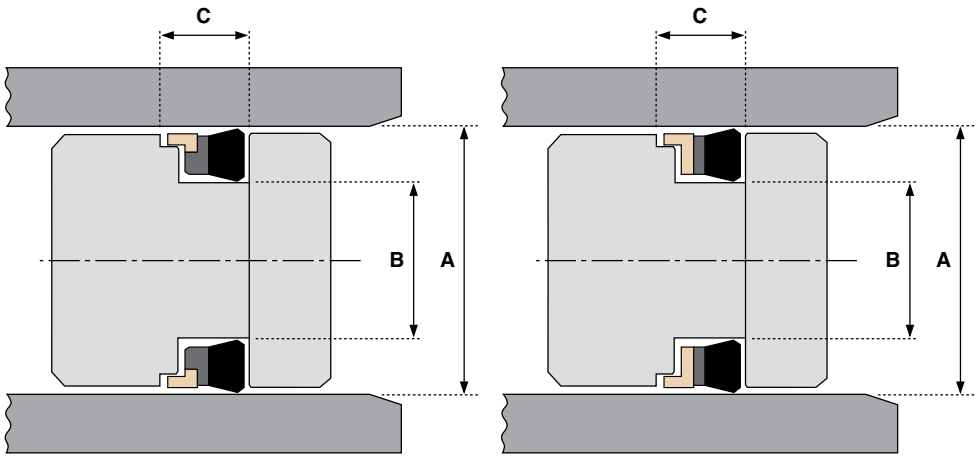
Operating conditions	Metric	Inch
Maximum Speed	0.5 m/sec	1.5 ft/sec
Temperature Range	-30°C +100°C	-22°F +212°F
Maximum Pressure	400 bar	5,800 p.s.i.

Design

The Type FRS seal is designed for use as a single acting piston seal. The seal is a precision moulded Nitrile rubber sealing element with a proportional bonded reinforced NBR header and an acetal bearing ring to resist extrusion. The acetal bearing ring resists extrusion of a seal to allow greater clearances and higher pressures, and provides bearing support for the piston preventing misalignment and metal to metal contact between piston and bore. The Type FRS seal is designed to provide effective low pressure sealing through distortion of the lips.

Features

- High resistance to extrusion
- Effective low pressure sealing
- Designed to be fitted onto a split piston



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Maximum Speed	0.5 m/sec	1.5 ft/sec
Temperature Range	-30°C +100°C	-22°F +212°F
Maximum Pressure	400 bar	6,000 p.s.i.

PISTON SEALS - SINGLE ACTING

CUP SEALS - SINGLE ACTING

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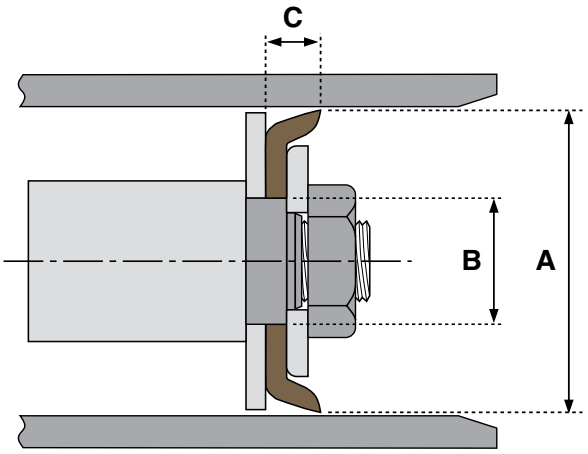
Design

The Type LCW seal is a leather hydraulic cup seal for use in oil applications, manufactured from chrome hard leather which is soaked in carnauba wax as part of the production process.

The Type LCW seal is a leather cup seal for use in water based applications.

Features

- Holds lubricating fluid in the fibre of the seal
- Abrasion resistant



Key	Description
A	OD
B	ID
C	Height

Technical Details

LCO Operating conditions	Metric	Inch
Maximum Speed	0.3 m/sec	1 ft/sec
Temperature Range	Max. +80°C	Max. +176°F
Maximum Pressure	20 bar	300+ p.s.i.

LCW Operating conditions	Metric	Inch
Maximum Speed	0.3 m/sec	1 ft/sec
Temperature Range	Max. +35°C	Max. +95°F
Maximum Pressure	7 bar	100+ p.s.i.

CUP SEALS - SINGLE ACTING

PISTON SEALS - SINGLE ACTING

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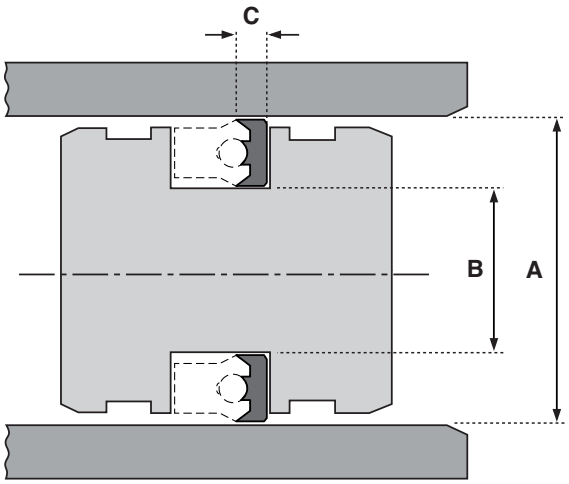
Design

The PIP (Pressure Inverting Pedestal) rings convert loaded lip seals into bi-directional seals. PIP Rings are made from a harder durometer urethane material and may be split for easier installation.

The PIP Ring conforms to the bevelled sealing lips of a Type 513 to provide extrusion resistance when pressure is applied to the heel of the seal.

Features

- Can be installed on a one piece piston in most cases
- Eliminates possible pressure trap associated with two “squeeze type” seals
- Saves space by only requiring a single groove for installation



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Temperature Range	-50°C +95°C	-60°F +200°F
Maximum Pressure	340 bar	5,000 p.s.i.

PISTON SEALS - SINGLE ACTING

CUP SEALS - SINGLE ACTING

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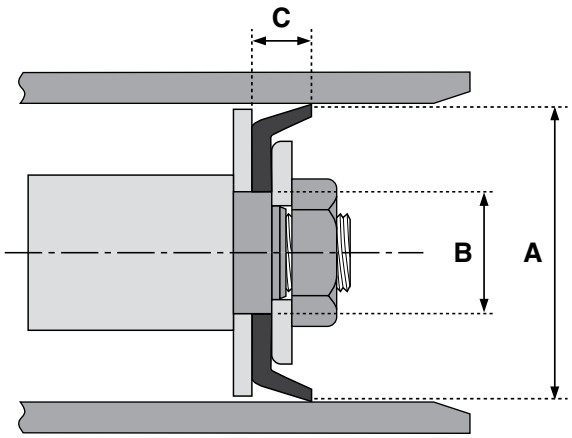
Design

The Type PU piston cup seals are used on rams or plungers in both hydraulic and pneumatic applications. The piston cups are moulded of urethane. The thinner lip relative to the base thickness results in lower friction and longer wear.

The range is supplied without a centre hole (B), however the centre is marked for your convenience.

Features

- Low friction and long wear design
- Urethane construction



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Maximum Speed	0.3 m/sec	1 ft/sec
Temperature Range	-55°C +95°C	-65°F +220°F
Maximum Pressure	80 bar	1,200 p.s.i.

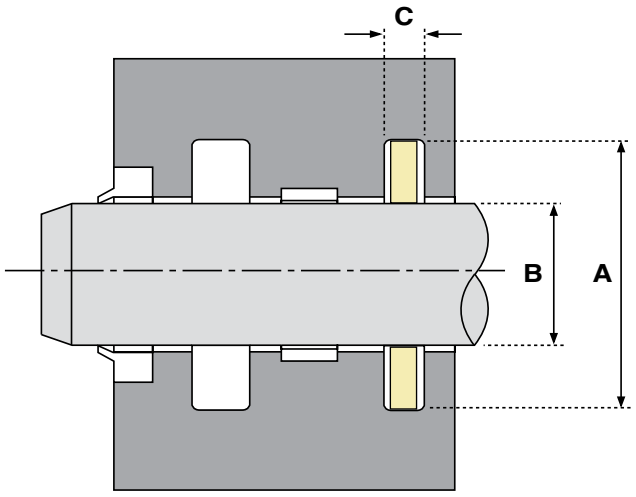
CUP SEALS - SINGLE ACTING

Design

The Type UBR (Urethane Buffer Ring) Rod buffer seals are a retangular urethane buffer ring designed to absorb pressure fluctuations thereby protecting the primary rod seal. Some sizes include a radial and axial slot, which faces the pressure, to relieve back pressure between the primary and buffer seal. This simple design is commonly found on older construction equipment.

Features

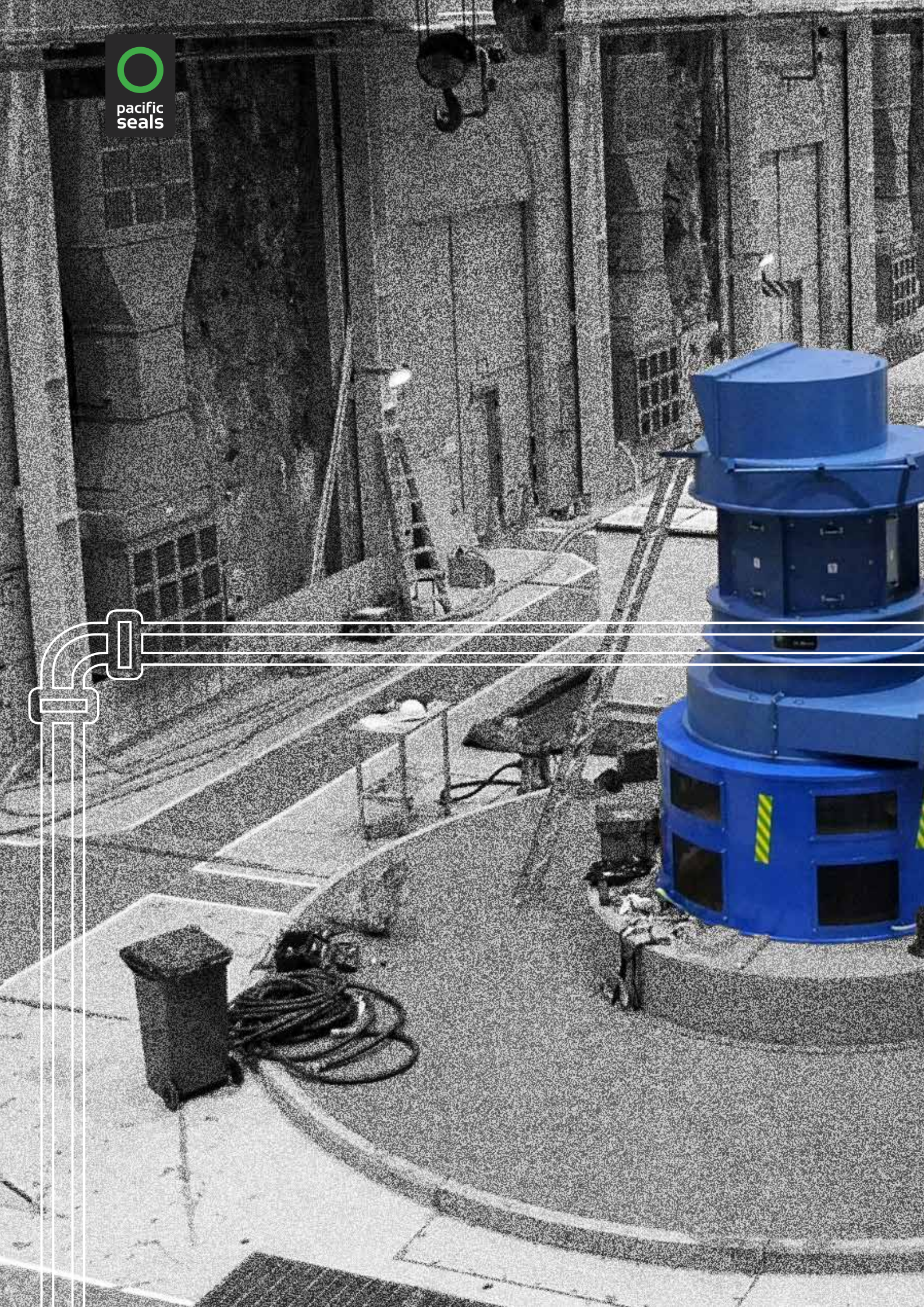
- Designed to absord pressure fluctuations
- Replaces OEM Caterpillar® equipment



Key	Description
A	OD
B	ID
C	Height

Technical Details

Operating conditions	Metric	Inch
Maximum Speed	0.9 m/sec	3 ft/sec
Temperature Range	-40°C +95°C	-40°F +200°F
Maximum Pressure	340 bar	5,000 p.s.i.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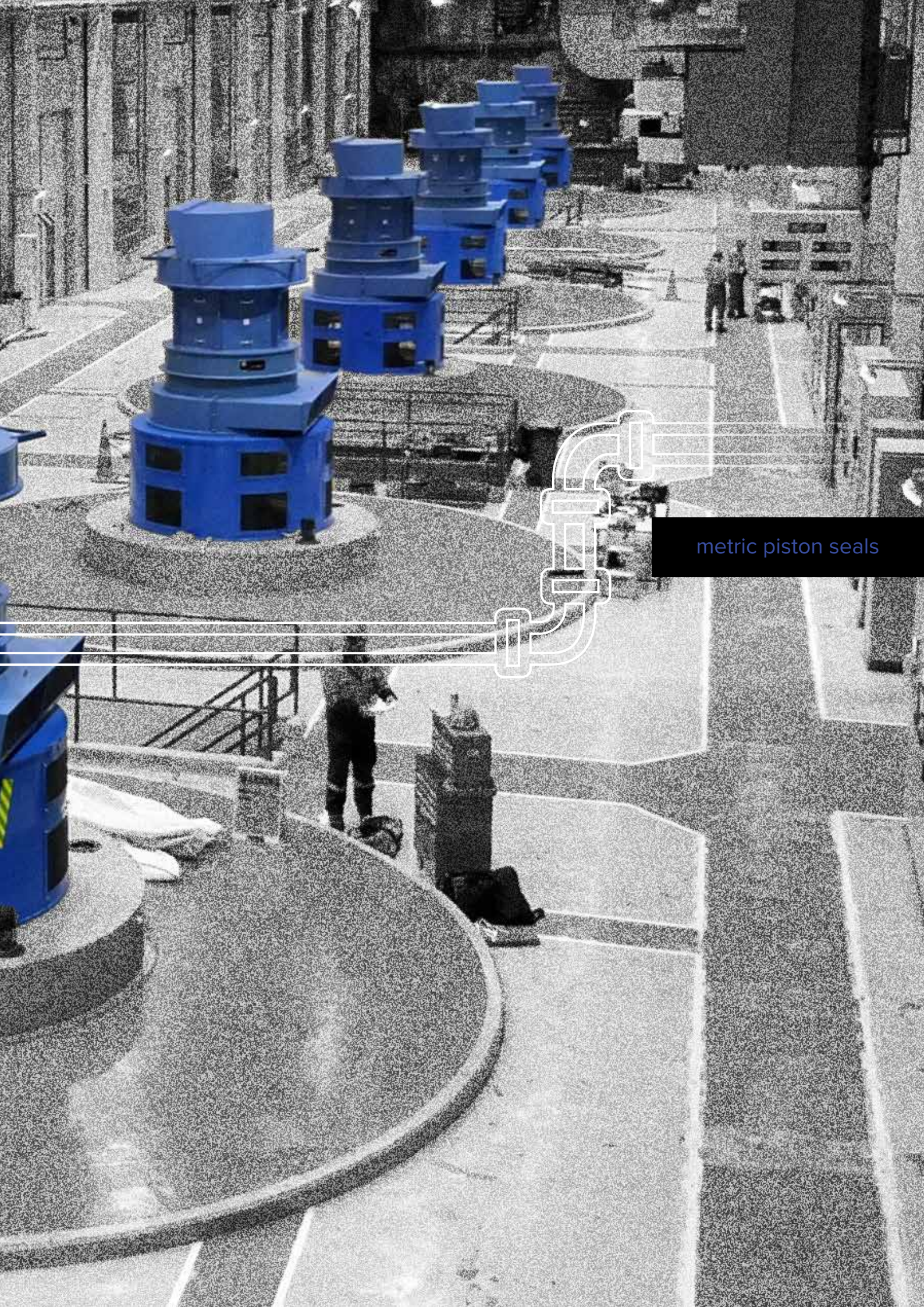


metric piston seals

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	601	**10.00**	4.00	4.00	17167
Hallite	601	**12.00**	5.00	5.50	17080
Pacific	601	**12.00**	6.00	4.00	16906
Pacific	601	**12.00**	6.00	6.00	17850
Hallite	601	**12.50**	4.50	4.40	17079
Hallite	601	**13.00**	6.00	8.00	17166
Hallite	18	**14.00**	6.00	6.00	17026
Pacific	601	**14.00**	6.00	9.00	16907
Pacific	513	**14.00**	8.00	3.00	34798
Pacific	601	**14.00**	8.00	6.00	17636
Pacific	601	**15.00**	6.00	8.00	17633
Pacific	513	**16.00**	6.50	8.00	38125
Hallite	18	**16.00**	8.00	6.00	17606
Pacific	601	**16.00**	8.00	6.00	17650
Pacific	601	**16.00**	10.00	4.00	18219
Hallite	606	**16.00**	10.00	5.70	42750
Pacific	513	**16.00**	10.00	6.00	17714
Pacific	601	**16.00**	12.00	8.00	16984
Pacific	FR	**17.00**	10.00	6.40	18437
Pacific	601	**17.10**	7.10	8.00	17025
Hallite	18	**18.00**	10.00	6.00	17770
Hallite	601	**18.00**	10.00	6.00	17090
Hallite	601	**18.00**	12.00	6.00	17054
Pacific	513	**19.00**	8.00	5.50	38128
Pacific	601	**19.00**	9.00	8.00	17103
Pacific	FR	**19.00**	12.00	6.40	17665
Pacific	601	**20.00**	10.00	5.00	16944
Hallite	651	**20.00**	10.00	6.80	36693
Hallite	601	**20.00**	10.00	8.00	17015
Hallite	601	**20.00**	12.00	4.40	17091

PISTON SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	18	**20.00**	12.00	6.00	17810
Pacific	513	**20.00**	12.00	6.40	17715
Pacific	601	**20.00**	12.00	8.00	16945
Pacific	601	**20.00**	14.00	4.50	17624
Hallite	601	**20.50**	12.50	5.00	17631
Pacific	601	**22.00**	10.00	6.00	17736
Pacific	601	**22.00**	11.00	8.00	16946
Hallite	601	**22.00**	14.00	4.40	17092
Hallite	601	**22.00**	14.00	5.00	16909
Pacific	FR	**22.00**	14.00	6.50	17666
Pacific	601	**22.00**	15.00	4.00	47134
Pacific	513	**22.00**	15.00	5.00	17671
Pacific	601	**22.00**	15.00	5.50	47133
Pacific	513	**22.00**	16.00	3.50	34799
Pacific	601	**22.50**	12.50	8.00	17548
Pacific	511	**23.00**	14.00	4.50	37876
Pacific	FR	**23.00**	15.00	6.30	17668
Pacific	513	**24.00**	11.00	9.50	38126
Hallite	18	**24.00**	14.00	7.50	17726
Hallite	601	**24.00**	14.00	8.00	17017
Hallite	601	**24.00**	16.00	4.40	17114
Hallite	601	**24.00**	16.00	5.00	16910
Pacific	FR	**24.00**	16.00	6.30	17145
Pacific	FR	**24.00**	16.00	7.50	15421
Hallite	18	**24.40**	18.00	4.80	17642
Hallite	18	**25.00**	10.00	13.00	17513
Hallite	601	**25.00**	12.00	8.00	17016
Hallite	18	**25.00**	12.00	10.00	17695
Pacific	601	**25.00**	14.00	7.00	16653
Hallite	18	**25.00**	15.00	7.50	17706

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	601	**25.00**	15.00	7.80	16467
Hallite	601	**25.00**	15.00	8.00	17040
Hallite	606	**25.00**	15.00	8.20	16468
Pacific	601	**25.00**	15.00	10.00	16965
Pacific	601	**25.00**	16.00	5.50	18508
Pacific	601	**25.00**	16.00	8.00	16966
Hallite	606	**25.00**	17.00	5.70	16758
Pacific	601	**25.00**	17.00	10.00	18548
Pacific	FR	**25.00**	18.00	7.00	17012
Hallite	18	**26.00**	16.00	7.50	17638
Hallite	601	**26.00**	16.00	8.00	17041
Hallite	601	**26.00**	18.00	4.40	17119
Hallite	601	**26.00**	18.00	5.00	16911
Pacific	FR	**26.00**	18.00	6.00	17667
Pacific	513	**27.00**	11.00	8.00	38129
Pacific	FR	**27.00**	15.00	6.50	17669
Pacific	513	**27.00**	19.00	4.00	16940
Pacific	601	**28.00**	15.00	10.00	17930
Hallite	601	**28.00**	18.00	7.30	16469
Hallite	18	**28.00**	18.00	7.50	17837
Hallite	601	**28.00**	18.00	8.00	17081
Hallite	601	**28.00**	20.00	4.40	17163
Hallite	601	**28.00**	20.00	5.00	16912
Pacific	FR	**28.00**	20.00	6.00	17591
Hallite	601	**28.00**	20.00	6.50	16440
Pacific	FR	**28.00**	20.00	7.00	15737
Pacific	513	**30.00**	18.00	6.50	34583
Pacific	601	**30.00**	18.00	10.00	16968
Pacific	513	**30.00**	19.00	5.50	38130
Hallite	18	**30.00**	20.00	7.50	17901

PISTON SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD	ID	HEIGHT	
		A	B	C	PART NO.
Pacific	FR	**30.00**	20.00	7.50	17027
Hallite	601	**30.00**	20.00	8.00	17082
Hallite	606	**30.00**	20.00	8.00	17205
Pacific	FR	**30.00**	20.00	8.00	18249
Hallite	626	**30.00**	20.00	9.00	36756
Hallite	601	**30.00**	22.00	4.40	17196
Pacific	FR	**30.00**	22.00	6.00	15425
Hallite	601	**30.00**	22.40	5.00	16913
Pacific	611	**31.00**	25.00	5.00	47327
Pacific	601	**31.50**	23.50	5.00	17603
Pacific	513	**32.00**	19.00	9.50	18068
Pacific	651	**32.00**	20.00	6.00	36694
Pacific	601	**32.00**	20.00	8.00	17459
Hallite	626	**32.00**	20.00	10.00	36757
Pacific	601	**32.00**	22.00	6.00	17098
Hallite	18	**32.00**	22.00	7.50	17811
Pacific	601	**32.00**	22.00	8.00	16957
Hallite	606	**32.00**	24.00	5.70	17183
Hallite	601	**32.00**	24.00	6.50	17195
Pacific	601	**32.00**	25.00	6.00	36183
Pacific	FR	**32.00**	25.00	6.00	34802
Hallite	601	**32.40**	22.40	8.00	17124
Pacific	601	**33.00**	20.00	10.00	17046
Pacific	601	**33.00**	22.00	8.00	34397
Hallite	601	**33.00**	25.00	4.40	17197
Hallite	601	**33.00**	25.00	5.00	16914
Pacific	FR	**33.00**	25.00	6.00	15427
Pacific	513	**33.00**	27.00	3.50	16881
Pacific	601	**34.00**	18.00	8.00	17064
Pacific	FR	**34.00**	22.00	9.00	42422

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	601	**34.00**	24.00	5.50	18527
Pacific	513	**35.00**	19.00	8.00	17997
Hallite	18	**35.00**	20.00	11.00	17772
Hallite	601	**35.00**	20.00	12.00	17243
Hallite	513	**35.00**	22.00	6.50	17053
Hallite	601	**35.00**	22.00	10.00	17123
Pacific	601	**35.00**	23.00	6.00	18664
Pacific	601	**35.00**	25.00	5.00	17734
Hallite	606	**35.00**	25.00	7.30	16474
Hallite	601	**35.00**	25.00	8.00	17125
Hallite	601	**35.00**	25.00	10.00	17234
Pacific	513	**35.00**	27.00	4.00	38131
Hallite	655	**35.00**	28.00	4.50	36758
Pacific	513	**35.00**	29.00	6.50	16942
Hallite	601	**35.50**	28.00	5.00	16972
Pacific	601	**36.00**	22.00	9.00	18458
Pacific	513	**36.00**	27.00	8.00	18479
Pacific	FR	**36.00**	28.00	6.00	15428
Hallite	601	**36.00**	28.00	6.50	17568
Pacific	513	**36.00**	28.00	8.00	17741
Hallite	606	**37.00**	21.00	11.80	17476
Hallite	18	**37.00**	22.00	11.00	18164
Pacific	601	**37.00**	28.00	3.70	17100
Hallite	601	**37.00**	30.00	6.00	36565
Pacific	513	**38.00**	19.00	9.50	17386
Pacific	513	**38.00**	22.00	8.00	17413
Hallite	18	**38.00**	23.00	11.00	17779
Hallite	601	**38.00**	25.00	8.00	17191
Hallite	601	**38.00**	25.00	10.00	15829
Pacific	FR	**38.00**	25.00	10.00	17097

PISTON SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	601	**38.00**	28.00	5.60	17245
Pacific	601	**38.00**	28.00	8.00	17529
Pacific	FR	**38.00**	30.00	6.00	17344
Hallite	18	**38.00**	30.00	8.00	18194
Hallite	606	**38.00**	31.00	5.20	42999
Pacific	513	**38.00**	32.00	3.30	16936
Pacific	601	**40.00**	20.00	10.00	17101
Hallite	18	**40.00**	20.00	12.50	17885
Hallite	601	**40.00**	20.00	12.50	35833
Hallite	601	**40.00**	22.00	10.00	35379
Hallite	601	**40.00**	25.00	10.00	17235
Hallite	18	**40.00**	25.00	11.00	17814
Hallite	601	**40.00**	26.00	9.20	35896
Pacific	513	**40.00**	27.00	6.50	16989
Hallite	606	**40.00**	28.00	9.00	42751
Hallite	601	**40.00**	28.00	10.00	17240
Hallite	601	**40.00**	30.00	5.60	17253
Hallite	601	**40.00**	30.00	6.00	17241
Pacific	513	**40.00**	30.00	6.40	17030
Hallite	626	**40.00**	30.00	7.00	36759
Hallite	606	**40.00**	30.00	7.30	17246
Hallite	601	**40.00**	30.00	8.00	17102
Hallite	601	**40.00**	30.00	10.00	17271
Pacific	FR	**40.00**	32.00	6.00	17109
Hallite	601	**41.50**	31.50	6.00	16973
Hallite	18	**42.00**	27.00	11.00	18942
Pacific	601	**42.00**	30.00	9.00	18741
Pacific	601	**42.00**	30.00	10.00	17224
Hallite	601	**42.00**	32.00	5.60	17256
Hallite	601	**42.00**	32.00	6.00	16974

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	601	**42.00**	32.00	10.00	17275
Hallite	601	**43.00**	28.00	10.00	17283
Hallite	18	**43.00**	28.00	11.00	17815
Pacific	601	**43.00**	30.00	8.00	18626
Pacific	601	**43.00**	33.00	10.00	17269
Pacific	FR	**43.00**	35.00	6.00	17442
Pacific	601	**43.50**	34.00	10.00	18296
Pacific	FR	**44.00**	25.00	12.00	17805
Pacific	511	**44.00**	32.00	6.30	17962
Pacific	601	**44.00**	32.00	9.50	17270
Hallite	18	**44.00**	36.00	6.00	18785
Pacific	FR	**44.00**	36.00	6.40	17396
Pacific	601	**45.00**	25.00	10.00	35876
Hallite	601	**45.00**	30.00	10.00	17403
Hallite	18	**45.00**	30.00	11.00	17776
Pacific	601	**45.00**	32.00	10.00	15793
Pacific	601	**45.00**	34.00	7.00	17388
Hallite	601	**45.00**	35.00	6.00	16996
Hallite	601	**45.00**	35.00	7.00	18238
Hallite	651	**45.00**	35.00	7.20	36697
Hallite	606	**45.00**	35.00	7.30	17311
Hallite	18	**45.00**	35.00	7.50	17983
Pacific	FR	**45.00**	35.00	9.00	17333
Hallite	601	**45.00**	35.00	10.00	16846
Hallite	601	**45.00**	35.50	6.00	16997
Pacific	513	**46.00**	30.00	8.00	17539
Pacific	513	**46.00**	30.00	13.00	38134
Pacific	601	**46.00**	32.00	10.00	17549
Pacific	513	**46.00**	33.00	6.50	17531
Pacific	FR	**46.00**	36.00	8.00	15747

PISTON SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	FR	**46.00**	36.00	8.00	17160
Pacific	601	**46.50**	31.50	10.00	17547
Pacific	601	**47.00**	26.00	12.00	18688
Hallite	601	**47.00**	32.00	10.00	36566
Hallite	18	**47.00**	32.00	11.00	17841
Hallite	18	**48.00**	28.00	11.40	18919
Hallite	601	**48.00**	35.00	10.00	17397
Pacific	FR	**48.00**	36.00	9.50	18248
Hallite	601	**48.00**	38.00	6.00	16998
Pacific	FR	**48.00**	40.00	6.40	17350
Pacific	FR	**48.00**	40.00	6.50	16179
Pacific	601	**48.00**	40.00	10.00	17391
Pacific	FR	**49.00**	43.00	5.00	17296
Pacific	601	**50.00**	25.00	10.00	17392
Pacific	601	**50.00**	30.00	12.00	17393
Hallite	18	**50.00**	30.00	14.00	18270
Pacific	FRS	**50.00**	30.00	14.50	18034
Hallite	906	**50.00**	32.00	12.00	19205
Pacific	601	**50.00**	34.00	12.00	18354
Hallite	601	**50.00**	35.00	10.00	17457
Hallite	18	**50.00**	35.00	11.00	17839
Hallite	601	**50.00**	38.00	9.00	36567
Hallite	601	**50.00**	40.00	6.00	16999
Hallite	601	**50.00**	40.00	6.50	16845
Pacific	FR	**50.00**	40.00	7.50	15438
Hallite	606	**50.00**	40.00	7.80	17320
Pacific	601	**50.00**	40.00	8.00	17521
Hallite	601	**50.00**	40.00	10.00	17354
Hallite	18	**50.00**	40.00	10.50	18224
Pacific	601	**50.00**	42.00	5.00	17523

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	601	**50.50**	35.50	10.00	42616
Hallite	513	**51.00**	35.00	8.00	17301
Pacific	FR	**51.00**	36.00	10.00	17466
Hallite	18	**51.00**	36.00	11.00	17943
Hallite	606	**51.00**	41.00	10.00	35764
Pacific	601	**52.00**	38.00	10.00	17874
Pacific	513	**53.00**	40.00	8.00	18110
Pacific	513	**54.00**	32.00	11.00	38133
Pacific	513	**54.00**	35.00	9.50	17585
Hallite	513	**54.00**	38.00	8.00	17345
Pacific	513	**55.00**	35.00	10.00	17999
Hallite	906	**55.00**	37.00	12.00	19164
Hallite	601	**55.00**	38.00	9.70	18046
Pacific	601	**55.00**	38.00	10.00	18024
Hallite	601	**55.00**	40.00	10.00	17488
Hallite	18	**55.00**	40.00	11.00	18530
Pacific	513	**55.00**	42.00	7.00	18160
Pacific	601	**55.00**	45.00	5.00	42832
Hallite	601	**55.00**	45.00	5.60	17381
Hallite	601	**55.00**	45.00	6.00	17000
Hallite	606	**55.00**	45.00	7.30	17764
Pacific	601	**55.00**	45.00	8.00	18232
Hallite	601	**55.00**	45.00	10.00	17358
Pacific	513	**55.00**	45.00	10.00	34399
Pacific	FR	**55.00**	45.00	10.50	17905
Pacific	601	**55.50**	45.50	10.00	17537
Pacific	601	**56.00**	40.00	10.00	18334
Pacific	601	**56.00**	41.00	8.00	19542
Hallite	18	**56.00**	41.00	11.00	15840
Hallite	601	**56.00**	45.00	7.00	17018

PISTON SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	601	**56.00**	46.00	6.00	34728
Hallite	18	**57.00**	42.00	11.00	19100
Hallite	601	**58.00**	38.00	10.00	18704
Pacific	601	**60.00**	40.00	10.00	18241
Hallite	601	**60.00**	40.00	12.00	17543
Hallite	18	**60.00**	40.00	14.00	18044
Pacific	601	**60.00**	40.00	18.00	17554
Hallite	906	**60.00**	42.00	12.00	19098
Pacific	FRS	**60.00**	44.00	14.50	17821
Hallite	601	**60.00**	45.00	10.00	17544
Hallite	606	**60.00**	45.00	10.00	17765
Hallite	18	**60.00**	45.00	11.00	18266
Hallite	601	**60.00**	50.00	5.60	17383
Hallite	601	**60.00**	50.00	6.00	17019
Pacific	606	**60.00**	50.00	7.00	47047
Hallite	18	**60.00**	50.00	7.50	18146
Pacific	601	**60.00**	50.00	8.00	47090
Hallite	606	**60.00**	50.00	9.00	42720
Hallite	601	**60.00**	50.00	10.00	17364
Pacific	601	**62.00**	42.00	12.00	18984
Pacific	601	**62.00**	50.00	9.00	18311
Pacific	FR	**62.00**	50.00	9.50	17592
Hallite	601	**62.00**	52.00	10.00	35736
Pacific	601	**62.00**	52.00	12.00	18244
Pacific	601	**63.00**	45.00	10.00	17620
Pacific	513	**63.00**	45.00	12.00	18159
Hallite	601	**63.00**	48.00	10.00	17570
Pacific	513	**63.00**	48.00	10.00	34400
Hallite	18	**63.00**	48.00	11.00	18048
Hallite	606	**63.00**	48.00	11.40	16487

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	601	**63.00**	50.00	6.00	35875
Pacific	513	**63.00**	50.00	10.00	18302
Hallite	601	**63.00**	53.00	6.00	17020
Hallite	606	**63.00**	53.00	7.30	17427
Pacific	511	**63.00**	53.00	10.00	18376
Hallite	606	**63.00**	53.00	11.80	17477
Pacific	601	**65.00**	35.00	12.00	17558
Hallite	601	**65.00**	45.00	10.00	36569
Hallite	18	**65.00**	45.00	14.00	18051
Hallite	906	**65.00**	47.00	12.00	19095
Pacific	513	**65.00**	50.00	9.00	18301
Hallite	18	**65.00**	50.00	10.00	18392
Hallite	601	**65.00**	50.00	10.00	17613
Hallite	18	**65.00**	50.00	11.00	18004
Pacific	601	**65.00**	55.00	5.00	17567
Hallite	601	**65.00**	55.00	6.00	17083
Hallite	606	**65.00**	55.00	7.30	39988
Hallite	18	**65.00**	55.00	8.00	18124
Hallite	601	**66.00**	56.00	6.00	17084
Hallite	601	**66.00**	56.00	7.30	17431
Hallite	601	**67.00**	54.00	9.50	17528
Hallite	18	**68.00**	56.00	9.00	18127
Pacific	601	**68.00**	58.00	6.00	17338
Hallite	606	**70.00**	45.00	15.50	42628
Hallite	906	**70.00**	48.00	14.00	18998
Hallite	601	**70.00**	50.00	12.00	17796
Hallite	18	**70.00**	50.00	14.00	18122
Pacific	FRS	**70.00**	50.00	16.80	18140
Pacific	FR	**70.00**	54.00	9.50	17740
Hallite	606	**70.00**	55.00	10.00	16761

PISTON SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	655	**70.00**	56.00	8.50	36761
Hallite	601	**70.00**	60.00	6.00	17127
Hallite	601	**70.00**	60.00	8.00	18382
Hallite	606	**70.00**	60.00	8.00	36592
Pacific	FR	**70.00**	60.00	8.00	18100
Pacific	FR	**70.00**	60.00	9.50	34402
Hallite	601	**70.00**	60.00	10.00	17610
Pacific	FR	**70.00**	60.00	12.50	34401
Hallite	601	**71.00**	56.00	8.40	17601
Hallite	18	**71.00**	56.00	12.00	18938
Hallite	601	**71.00**	60.00	7.00	17128
Hallite	18	**71.00**	60.00	9.00	18289
Hallite	606	**71.00**	61.00	6.00	34711
Pacific	601	**72.00**	52.00	12.00	19553
Hallite	18	**72.00**	60.00	9.50	17968
Pacific	FR	**72.00**	60.00	9.50	19066
Hallite	155	**72.00**	64.00	8.20	42381
Pacific	513	**73.00**	51.00	11.00	18771
Hallite	513	**73.00**	54.00	9.50	18341
Pacific	513	**73.00**	54.00	16.00	18954
Pacific	513	**73.00**	57.00	8.00	35895
Hallite	513	**73.00**	57.00	13.00	17600
Hallite	601	**73.00**	63.00	6.00	17129
Hallite	601	**73.00**	63.00	8.00	18026
Hallite	601	**73.00**	63.00	11.80	17541
Pacific	601	**75.00**	50.00	5.00	34404
Hallite	601	**75.00**	55.00	12.00	17849
Hallite	18	**75.00**	55.00	14.00	18148
Pacific	601	**75.00**	60.00	10.00	34405
Pacific	601	**75.00**	62.00	10.00	47024

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	FR	**75.00**	63.00	9.60	18000
Pacific	601	**75.00**	63.00	10.00	18727
Hallite	601	**75.00**	65.00	6.00	17130
Pacific	513	**75.00**	65.00	10.00	18512
Hallite	606	**75.00**	67.00	8.80	17452
Pacific	18	**76.00**	46.00	25.00	18988
Hallite	513	**76.00**	51.00	12.50	18459
Pacific	601	**76.00**	56.00	12.00	17856
Hallite	18	**76.00**	56.00	14.00	18162
Pacific	601	**76.00**	60.00	8.00	35279
Hallite	601	**76.00**	60.00	12.00	18817
Pacific	601	**76.00**	66.00	5.00	18037
Pacific	FR	**77.00**	65.00	9.60	18065
Hallite	601	**78.00**	63.00	8.40	17677
Hallite	18	**80.00**	50.00	25.00	18775
Pacific	601	**80.00**	55.00	12.00	47204
Hallite	906	**80.00**	58.00	14.00	19128
Hallite	626	**80.00**	60.00	10.00	36762
Hallite	601	**80.00**	60.00	12.00	17934
Hallite	18	**80.00**	60.00	14.00	18526
Pacific	FRS	**80.00**	60.00	14.00	18347
Hallite	601	**80.00**	65.00	8.40	17833
Pacific	601	**80.00**	65.00	10.00	18747
Hallite	18	**80.00**	65.00	11.00	18165
Hallite	606	**80.00**	65.00	11.40	17822
Pacific	601	**80.00**	66.00	10.00	18925
Hallite	601	**80.00**	70.00	6.00	17192
Hallite	606	**80.00**	70.00	6.80	17598
Hallite	606	**80.00**	70.00	8.00	36593
Pacific	601	**80.00**	70.00	8.00	47135

PISTON SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	601	**80.00**	70.00	11.80	17824
Hallite	601	**80.00**	71.00	6.00	17193
Pacific	513	**81.00**	62.00	10.00	38135
Pacific	601	**82.00**	62.00	12.00	17897
Pacific	FR	**82.00**	70.00	8.60	17755
Pacific	FR	**82.00**	70.00	10.00	17927
Pacific	601	**82.00**	74.50	9.00	36395
Pacific	601	**83.00**	63.00	10.00	16111
Hallite	18	**83.00**	63.00	14.00	18264
Hallite	18	**84.00**	70.00	12.00	18489
Pacific	601	**85.00**	60.00	10.00	18902
Hallite	601	**85.00**	65.00	12.00	17977
Hallite	18	**85.00**	65.00	14.00	18227
Hallite	601	**85.00**	70.00	8.40	17834
Hallite	601	**85.00**	75.00	6.00	17194
Hallite	606	**85.00**	75.00	8.00	36594
Hallite	601	**85.00**	75.00	11.80	17798
Hallite	606	**85.70**	70.70	10.30	36595
Pacific	601	**86.00**	71.00	10.00	18042
Pacific	601	**90.00**	65.00	19.00	19083
Hallite	906	**90.00**	68.00	14.00	19115
Hallite	626	**90.00**	70.00	10.00	35359
Hallite	601	**90.00**	70.00	12.00	17990
Pacific	513	**90.00**	70.00	12.00	34408
Hallite	18	**90.00**	70.00	14.00	18288
Pacific	601	**90.00**	72.00	12.00	19120
Pacific	601	**90.00**	75.00	7.50	18811
Hallite	601	**90.00**	75.00	9.00	18618
Hallite	18	**90.00**	75.00	12.00	18309
Hallite	626	**90.00**	75.00	12.00	36764

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	655	**90.00**	75.00	12.00	18939
Pacific	601	**90.00**	75.00	12.00	18471
Hallite	601	**90.00**	80.00	6.00	17284
Hallite	601	**90.00**	80.00	8.00	34753
Hallite	601	**90.00**	80.00	11.80	17828
Pacific	513	**90.00**	80.00	12.00	34409
Hallite	155	**90.00**	82.00	8.20	42382
Hallite	601	**92.00**	70.00	12.00	18099
Pacific	18	**92.00**	73.00	14.50	18406
Pacific	FR	**92.00**	80.00	9.00	15456
Pacific	18	**92.00**	80.00	9.60	18280A
Pacific	601	**92.00**	82.00	10.00	18849
Hallite	155	**92.00**	84.00	8.20	42383
Hallite	601	**95.00**	75.00	12.00	18154
Hallite	18	**95.00**	75.00	14.00	18287
Hallite	601	**95.00**	80.00	8.40	17995
Hallite	18	**95.00**	80.00	12.00	18933
Pacific	FR	**95.00**	80.00	12.50	18871
Pacific	601	**95.00**	85.00	6.00	18810
Pacific	601	**95.00**	85.00	8.60	34634
Hallite	18	**97.00**	85.00	10.80	18464
Hallite	601	**100.00**	75.00	22.00	36570
Hallite	906	**100.00**	78.00	14.00	19166
Hallite	601	**100.00**	80.00	12.00	18155
Hallite	18	**100.00**	80.00	14.00	18316
Pacific	FR	**100.00**	80.00	14.00	18695
Hallite	659	**100.00**	80.00	14.50	36787
Pacific	FR	**100.00**	80.00	14.50	18573
Pacific	FRS	**100.00**	80.00	14.50	18800
Hallite	601	**100.00**	85.00	8.40	18080

PISTON SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	601	**100.00**	85.00	8.90	17721
Hallite	606	**100.00**	85.00	11.40	18069
Hallite	655	**100.00**	85.00	11.40	36406
Hallite	606	**100.00**	90.00	6.80	17899
Pacific	601	**100.00**	90.00	8.00	18611
Hallite	601	**100.00**	90.00	11.80	18095
Hallite	155	**100.00**	92.00	8.20	42384
Pacific	FR	**102.00**	90.00	9.60	19077
Pacific	18	**103.00**	78.00	19.00	18912
Pacific	FRS	**104.50**	85.00	13.00	19004
Hallite	655	**105.00**	85.00	11.40	36767
Hallite	626	**105.00**	85.00	11.80	35378
Hallite	18	**105.00**	85.00	12.00	18699
Hallite	601	**105.00**	85.00	12.00	18252
Pacific	FRS	**105.00**	85.00	12.80	19005
Hallite	18	**105.00**	85.00	15.00	18658
Hallite	601	**105.00**	90.00	8.40	18102
Hallite	601	**105.00**	90.00	8.90	17800
Pacific	FR	**105.00**	96.00	8.00	19185
Hallite	155	**105.00**	97.00	8.20	42385
Hallite	651	**105.00**	97.00	11.50	36700
Pacific	513	**105.00**	97.00	13.00	18870
Pacific	FR	**107.50**	98.00	7.00	19026
Pacific	FR	**108.00**	96.00	12.50	19027
Pacific	FR	**108.00**	97.00	12.50	19028
Pacific	601	**109.00**	99.00	15.00	18725
Hallite	906	**110.00**	88.00	14.00	19012
Hallite	18	**110.00**	90.00	10.00	18295
Hallite	601	**110.00**	90.00	12.00	18379
Pacific	626	**110.00**	90.00	12.50	47806

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	FRS	**110.00**	90.00	12.50	19006
Hallite	18	**110.00**	90.00	14.00	18428
Hallite	659	**110.00**	90.00	14.50	36246
Pacific	513	**110.00**	90.00	14.50	18839
Hallite	18	**110.00**	90.00	15.00	18457
Hallite	601	**110.00**	95.00	8.90	17870
Hallite	601	**110.00**	100.00	8.00	18380
Hallite	606	**110.00**	100.00	8.00	34712
Pacific	513	**111.00**	92.00	9.50	19152
Hallite	155	**112.00**	104.00	8.20	42386
Pacific	FRS	**115.00**	90.00	17.00	18803
Hallite	906	**115.00**	93.00	14.00	19167
Hallite	626	**115.00**	95.00	11.80	36770
Hallite	655	**115.00**	95.00	11.80	35381
Hallite	601	**115.00**	95.00	12.00	18401
Pacific	513	**115.00**	95.00	12.00	34412
Hallite	18	**115.00**	95.00	14.00	18456
Hallite	601	**115.00**	100.00	8.90	17871
Hallite	18	**115.00**	100.00	12.00	18417
Pacific	601	**115.00**	105.00	6.00	19064
Pacific	906	**120.00**	98.00	14.00	19022
Hallite	906	**120.00**	98.00	15.00	48991
Hallite	601	**120.00**	100.00	12.00	18474
Hallite	18	**120.00**	100.00	14.00	18463
Pacific	513	**120.00**	100.00	14.00	18920
Pacific	601	**120.00**	106.00	8.50	18606
Pacific	FR	**124.00**	110.00	9.00	34413
Pacific	601	**125.00**	95.00	15.00	47209
Pacific	601	**125.00**	100.00	9.00	19013
Pacific	601	**125.00**	100.00	12.00	19199

PISTON SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	601	**125.00**	100.00	15.00	18923
Hallite	18	**125.00**	100.00	19.00	18646
Hallite	906	**125.00**	103.00	14.00	19049
Hallite	601	**125.00**	105.00	11.40	18523
Hallite	606	**125.00**	105.00	14.50	18680
Hallite	601	**125.00**	105.00	15.00	18501
Hallite	18	**125.00**	110.00	11.00	18596
Hallite	601	**125.00**	112.00	8.90	17872
Hallite	601	**126.00**	115.00	14.00	16464
Hallite	155	**127.00**	119.00	8.20	42387
Hallite	906	**130.00**	108.00	14.00	19229
Hallite	601	**130.00**	110.00	11.00	18676
Hallite	18	**130.00**	110.00	14.00	18760
Hallite	601	**130.00**	110.00	15.00	18521
Pacific	18	**130.00**	114.00	10.50	18510
Hallite	601	**130.00**	115.00	9.00	44054
Pacific	601	**130.00**	115.00	11.00	18957
Hallite	651	**130.00**	120.00	13.50	36702
Pacific	601	**130.00**	120.00	14.50	19047
Pacific	513	**135.00**	110.00	18.00	19071
Hallite	18	**135.00**	110.00	19.00	18821
Hallite	18	**135.00**	115.00	14.00	18753
Hallite	601	**135.00**	115.00	15.00	18665
Hallite	155	**137.00**	129.00	8.20	42388
Pacific	601	**140.00**	115.00	12.00	47107
Hallite	906	**140.00**	118.00	14.00	19147
Hallite	18	**140.00**	120.00	12.00	18669
Hallite	601	**140.00**	120.00	14.50	18848
Hallite	601	**140.00**	120.00	15.00	18720
Hallite	601	**140.00**	125.00	8.90	18077

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	601	**140.00**	125.00	12.30	16465
Pacific	513	**143.00**	130.00	7.00	38136
Hallite	18	**145.00**	120.00	19.00	18879
Hallite	601	**145.00**	125.00	11.00	18905
Hallite	18	**145.00**	125.00	14.00	19265
Hallite	601	**145.00**	125.00	15.00	18783
Pacific	FR	**145.00**	130.00	13.00	19345
Hallite	155	**145.00**	137.00	8.20	42389
Pacific	513	**146.00**	130.00	16.00	38137
Pacific	513	**150.00**	125.00	18.00	19195
Hallite	18	**150.00**	125.00	19.00	18913
Hallite	906	**150.00**	128.00	14.00	19285
Pacific	601	**150.00**	130.00	10.00	19266
Hallite	606	**150.00**	130.00	14.50	16506
Hallite	601	**150.00**	130.00	15.00	18820
Hallite	601	**150.00**	136.00	8.50	18078
Hallite	606	**150.00**	140.00	13.60	18952
Hallite	601	**154.00**	140.00	9.00	35185
Hallite	155	**154.00**	146.00	8.20	42390
Hallite	601	**155.00**	140.00	8.90	18131
Hallite	18	**160.00**	135.00	19.00	19135
Hallite	906	**160.00**	138.00	14.00	19158
Hallite	18	**160.00**	140.00	14.00	19089
Hallite	601	**160.00**	140.00	15.00	18981
Hallite	606	**160.00**	140.00	18.20	19061
Hallite	601	**160.00**	145.00	8.90	18156
Pacific	601	**165.00**	135.00	18.00	19315
Hallite	18	**165.00**	140.00	19.00	19132
Hallite	601	**165.00**	145.00	15.00	18907
Hallite	601	**165.00**	150.00	8.90	18369

PISTON SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	155	**165.00**	157.00	8.20	42391
Pacific	601	**170.00**	140.00	18.00	38193
Hallite	906	**170.00**	148.00	14.00	19443
Hallite	601	**170.00**	150.00	15.00	19023
Hallite	601	**170.00**	155.00	9.00	16856
Hallite	601	**175.00**	160.00	9.00	16858
Hallite	155	**175.00**	167.00	8.20	42392
Pacific	513	**180.00**	150.00	18.00	19238
Hallite	601	**180.00**	155.00	15.00	18983
Hallite	906	**180.00**	158.00	14.00	19359
Hallite	18	**180.00**	160.00	15.00	19304
Hallite	601	**180.00**	165.00	9.00	16859
Pacific	601	**180.00**	165.00	9.50	19145
Hallite	601	**183.00**	165.00	10.00	35198
Hallite	601	**185.00**	160.00	15.00	18992
Pacific	513	**185.00**	175.00	11.40	19278
Hallite	155	**188.00**	180.00	8.20	42393
Hallite	18	**190.00**	160.00	24.00	19305
Hallite	601	**190.00**	165.00	15.00	19032
Pacific	513	**190.00**	165.00	16.00	19268
Hallite	906	**190.00**	168.00	14.00	19468
Hallite	601	**190.00**	175.00	9.00	40013
Hallite	601	**195.00**	170.00	15.00	19044
Pacific	513	**195.00**	170.00	16.00	19276
Hallite	155	**198.00**	190.00	8.20	42394
Hallite	18	**200.00**	170.00	24.00	15782
Hallite	601	**200.00**	175.00	15.00	19080
Pacific	513	**200.00**	175.00	18.00	19320
Hallite	18	**200.00**	175.00	19.00	19330
Hallite	906	**200.00**	178.00	14.00	19390

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	601	**200.00**	180.00	12.00	19218
Hallite	606	**200.00**	180.00	14.50	19174
Hallite	601	**205.00**	180.00	15.00	19093
Hallite	155	**205.00**	197.00	8.20	42395
Hallite	18	**210.00**	180.00	24.00	19337
Hallite	601	**210.00**	190.00	12.00	34518
Hallite	601	**215.00**	190.00	15.00	34519
Pacific	513	**215.00**	190.00	15.00	19309
Hallite	155	**216.00**	208.00	8.20	42396
Hallite	601	**220.00**	200.00	12.00	19259
Hallite	18	**220.00**	200.00	15.00	19350
Pacific	601	**224.00**	200.00	14.50	42271
Hallite	601	**225.00**	200.00	15.00	34526
Pacific	513	**225.00**	200.00	18.00	19323
Hallite	906	**225.00**	203.00	14.00	36650
Hallite	18	**230.00**	200.00	24.00	19363
Hallite	601	**235.00**	210.00	18.00	34527
Hallite	601	**240.00**	220.00	12.00	16867
Pacific	601	**240.00**	225.00	13.00	19453
Hallite	601	**250.00**	220.00	17.00	16769
Hallite	18	**250.00**	220.00	22.00	19375
Hallite	18	**250.00**	225.00	18.00	19379
Pacific	513	**250.00**	225.00	18.00	19333
Hallite	601	**250.00**	230.00	12.50	19336
Hallite	155	**250.00**	242.00	8.20	42399
Pacific	513	**254.00**	216.00	20.00	38139
Pacific	513	**255.00**	225.00	22.50	19340
Hallite	18	**260.00**	230.00	24.00	19387
Hallite	601	**260.00**	240.00	12.00	35913
Hallite	18	**260.00**	240.00	17.00	19388

PISTON SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	601	**265.00**	240.00	18.00	19298
Hallite	18	**270.00**	240.00	24.00	19394
Hallite	601	**275.00**	250.00	18.00	19303
Pacific	513	**280.00**	250.00	22.50	19358
Hallite	18	**280.00**	250.00	24.00	19400
Hallite	601	**290.00**	260.00	18.00	19342
Hallite	18	**290.00**	260.00	24.00	19408
Hallite	601	**295.00**	265.00	18.00	19366
Hallite	601	**300.00**	270.00	18.00	34528
Hallite	18	**300.00**	270.00	24.00	19415
Hallite	155	**300.00**	288.80	11.20	42404
Hallite	601	**310.00**	280.00	18.00	19374
Hallite	18	**310.00**	280.00	24.00	19424
Hallite	601	**320.00**	290.00	18.00	19353
Hallite	601	**330.00**	300.00	18.00	34529
Hallite	18	**330.00**	300.00	24.00	19435
Hallite	18	**360.00**	320.00	30.00	19450
Hallite	18	**400.00**	360.00	30.00	19464
Hallite	155	**405.00**	391.40	15.00	42412
Hallite	18	**420.00**	380.00	30.00	19470
Hallite	18	**440.00**	400.00	30.00	19476
Hallite	18	**500.00**	460.00	30.00	19492

pacific
seals

imperial piston seals

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	513	**0.313**	0.063	0.125	37868
Pacific	511	**0.344**	0.094	0.125	37869
Hallite	511	**0.375**	0.125	0.138	17032
Pacific	513	**0.375**	0.125	0.250	16959
Hallite	18	**0.438**	0.188	0.188	17448
Pacific	513	**0.438**	0.188	0.250	17005
Hallite	511	**0.438**	0.188	0.138	16880
Hallite	18	**0.500**	0.188	0.250	17912
Hallite	511	**0.500**	0.250	0.138	16879
Hallite	513	**0.500**	0.250	0.207	35702
Hallite	651	**0.500**	0.250	0.250	36682
Hallite	513	**0.500**	0.250	0.275	16899
Pacific	511	**0.563**	0.188	0.188	17267
Hallite	18	**0.563**	0.250	0.250	17159
Pacific	513	**0.563**	0.313	0.125	17058
Pacific	511	**0.563**	0.313	0.250	36420
Hallite	511	**0.563**	0.313	0.138	43539
Pacific	511	**0.625**	0.250	0.188	16923
Pacific	511	**0.625**	0.250	0.313	37774
Hallite	18	**0.625**	0.313	0.250	17773
Hallite	511	**0.625**	0.375	0.138	16889
Hallite	513	**0.625**	0.375	0.138	43491
Hallite	513	**0.625**	0.375	0.275	17168
Hallite	18	**0.625**	0.438	0.150	17948
Hallite	513	**0.687**	0.437	0.275	17415
Pacific	511	**0.688**	0.313	0.188	47062
Pacific	513	**0.688**	0.313	0.188	16947
Pacific	511	**0.688**	0.438	0.125	17031
Pacific	511	**0.750**	0.250	0.250	17087
Pacific	511	**0.750**	0.313	0.219	37890

PISTON SEALS - SINGLE ACTING

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	511	**0.750**	0.375	0.188	16948
Hallite	511	**0.750**	0.375	0.207	43543
Hallite	18	**0.750**	0.375	0.281	17639
Pacific	511	**0.750**	0.375	0.313	17527
Hallite	18	**0.750**	0.375	0.375	17909
Pacific	511	**0.750**	0.438	0.156	15283
Hallite	611	**0.750**	0.500	0.125	35244
Hallite	511	**0.750**	0.500	0.138	16890
Hallite	18	**0.750**	0.500	0.188	17730
Hallite	601	**0.750**	0.500	0.250	35367
Hallite	513	**0.750**	0.500	0.275	16921
Hallite	18	**0.750**	0.563	0.096	17729
Pacific	511	**0.813**	0.313	0.250	17225
Pacific	511	**0.813**	0.438	0.188	17086
Hallite	18	**0.813**	0.438	0.281	17177
Hallite	18	**0.813**	0.500	0.219	17784
Hallite	611	**0.813**	0.563	0.125	35223
Hallite	511	**0.813**	0.563	0.138	17395
Pacific	513	**0.875**	0.250	0.313	37907
Hallite	511	**0.875**	0.250	0.344	18882
Hallite	511	**0.875**	0.375	0.275	17089
Pacific	513	**0.875**	0.438	0.219	37891
Hallite	601	**0.875**	0.500	0.197	17164
Hallite	511	**0.875**	0.500	0.207	17440
Hallite	513	**0.875**	0.500	0.275	35707
Hallite	18	**0.875**	0.500	0.281	17641
Pacific	FR	**0.875**	0.500	0.281	16990
Hallite	513	**0.875**	0.500	3.440	16964
Hallite	611	**0.875**	0.625	0.125	35234
Hallite	511	**0.875**	0.625	0.138	16894

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	18	**0.875**	0.625	0.188	17725
Hallite	513	**0.875**	0.625	0.207	35703
Hallite	513	**0.875**	0.625	0.275	16932
Pacific	511	**0.938**	0.438	0.250	17405
Pacific	511	**0.938**	0.438	0.375	37782
Pacific	511	**0.938**	0.563	0.188	17467
Hallite	18	**0.938**	0.563	0.281	17628
Hallite	611	**0.938**	0.688	0.125	35240
Pacific	513	**0.938**	0.688	0.250	37772
Hallite	511	**0.938**	0.688	0.138	16901
Pacific	513	**1.000**	0.375	0.313	37908
Hallite	601	**1.000**	0.500	0.250	17198
Hallite	511	**1.000**	0.500	0.275	17088
Hallite	18	**1.000**	0.500	0.375	17868
Hallite	513	**1.000**	0.500	0.413	17068
Hallite	601	**1.000**	0.625	0.190	17165
Hallite	511	**1.000**	0.625	0.207	16919
Hallite	18	**1.000**	0.625	0.281	17866
Hallite	513	**1.000**	0.625	0.312	15849
Hallite	18	**1.000**	0.750	0.121	18736
Hallite	611	**1.000**	0.750	0.125	35242
Hallite	18	**1.000**	0.750	0.132	17579
Hallite	511	**1.000**	0.750	0.138	16900
Hallite	513	**1.000**	0.750	0.139	16863
Hallite	18	**1.000**	0.750	0.188	17780
Hallite	513	**1.000**	0.750	0.275	16954
Pacific	511	**1.063**	0.438	0.313	37909
Pacific	511	**1.063**	0.563	0.250	17406
Hallite	18	**1.063**	0.563	0.375	18214
Pacific	511	**1.063**	0.688	0.188	17304

PISTON SEALS - SINGLE ACTING

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	511	**1.063**	0.750	0.156	16939
Hallite	18	**1.063**	0.813	0.121	18125
Hallite	611	**1.063**	0.813	0.125	35213
Hallite	511	**1.063**	0.813	0.138	16976
Hallite	18	**1.094**	0.750	0.281	17881
Pacific	FR	**1.094**	0.750	0.281	17223
Pacific	511	**1.125**	0.500	0.313	17509
Hallite	601	**1.125**	0.625	0.250	17214
Hallite	511	**1.125**	0.625	0.275	16955
Hallite	513	**1.125**	0.625	0.344	35708
Hallite	18	**1.125**	0.625	0.375	18018
Pacific	511	**1.125**	0.625	0.375	17989
Hallite	18	**1.125**	0.688	0.375	17993
Hallite	511	**1.125**	0.750	0.207	43544
Hallite	513	**1.125**	0.750	0.207	16933
Hallite	513	**1.125**	0.750	0.275	19527
Hallite	606	**1.125**	0.750	0.313	35374
Hallite	513	**1.125**	0.750	0.344	16986
Hallite	513	**1.125**	0.750	0.413	19526
Hallite	611	**1.125**	0.875	0.125	35214
Hallite	511	**1.125**	0.875	0.138	16962
Hallite	513	**1.125**	0.875	0.275	17244
Hallite	611	**1.125**	1.000	0.125	36618
Hallite	513	**1.187**	0.937	0.275	18282
Pacific	511	**1.188**	0.688	0.250	16956
Hallite	18	**1.188**	0.688	0.375	17882
Pacific	513	**1.188**	0.688	0.375	15856
Pacific	511	**1.188**	0.750	0.219	37893
Pacific	511	**1.188**	0.813	0.188	16941
Pacific	513	**1.188**	0.813	0.188	16980

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	511	**1.188**	0.813	0.313	17059
Hallite	511	**1.188**	0.938	0.138	17508
Pacific	513	**1.250**	0.500	0.375	37921
Pacific	511	**1.250**	0.625	0.313	17060
Hallite	18	**1.250**	0.625	0.375	17843
Hallite	601	**1.250**	0.750	0.250	17219
Hallite	511	**1.250**	0.750	0.275	17865
Hallite	18	**1.250**	0.750	0.375	18137
Hallite	513	**1.250**	0.750	0.413	15857
Pacific	PIP	**1.250**	0.875	0.063	40295
Hallite	611	**1.250**	0.875	0.188	36617
Hallite	511	**1.250**	0.875	0.207	17023
Hallite	18	**1.250**	0.875	0.375	18085
Pacific	511	**1.250**	0.875	0.375	37775
Hallite	513	**1.250**	0.875	3.440	17404
Pacific	513	**1.250**	0.938	0.156	37874
Hallite	18	**1.250**	0.938	0.188	17817
Hallite	18	**1.250**	1.000	0.121	17771
Hallite	611	**1.250**	1.000	0.125	35216
Hallite	511	**1.250**	1.000	0.138	16922
Hallite	659	**1.250**	1.000	0.188	36784
Hallite	513	**1.250**	1.000	0.207	19528
Hallite	513	**1.250**	1.000	0.275	17021
Pacific	513	**1.313**	0.688	0.313	37910
Pacific	511	**1.313**	0.813	0.250	17071
Hallite	18	**1.313**	0.813	0.375	17707
Pacific	513	**1.313**	0.813	0.375	18014
Pacific	511	**1.313**	0.938	0.188	37886
Pacific	513	**1.313**	0.938	0.313	38349
Pacific	513	**1.313**	1.000	0.250	17095

PISTON SEALS - SINGLE ACTING

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	611	**1.313**	1.063	0.125	36619
Hallite	511	**1.313**	1.000	0.172	15880
Hallite	511	**1.313**	1.063	0.138	35256
Hallite	513	**1.313**	1.063	0.275	35257
Hallite	18	**1.375**	0.625	0.500	18272
Pacific	511	**1.375**	0.750	0.313	17996
Pacific	513	**1.375**	0.750	0.500	37783
Hallite	18	**1.375**	0.860	0.380	17947
Hallite	511	**1.375**	0.875	0.275	17108
Pacific	601	**1.375**	0.875	0.280	16416
Hallite	513	**1.375**	0.875	0.344	35709
Hallite	18	**1.375**	0.875	0.375	17694
Pacific	18	**1.375**	0.875	0.375	17622
Pacific	FR	**1.375**	0.875	0.375	17347
Hallite	513	**1.375**	0.875	0.413	17907
Pacific	513	**1.375**	0.938	0.219	37894
Hallite	511	**1.375**	1.000	0.207	43545
Hallite	513	**1.375**	1.000	0.207	16987
Hallite	18	**1.375**	1.000	0.250	17836
Pacific	FR	**1.375**	1.000	0.250	15329
Hallite	513	**1.375**	1.000	0.275	16251
Hallite	513	**1.375**	1.000	0.344	17050
Pacific	511	**1.375**	1.063	0.156	37875
Hallite	511	**1.375**	1.125	0.138	16934
Hallite	18	**1.375**	1.125	0.188	18967
Hallite	513	**1.375**	1.125	0.275	17298
Hallite	513	**1.375**	1.125	0.344	35704
Hallite	513	**1.437**	1.062	0.344	17227
Hallite	18	**1.438**	0.688	0.563	18485
Pacific	513	**1.438**	0.813	0.313	37911

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	511	**1.438**	0.938	0.250	17334
Hallite	18	**1.438**	0.938	0.375	17728
Hallite	513	**1.438**	1.187	0.275	17004
Pacific	511	**1.438**	1.188	0.125	16918
Hallite	511	**1.438**	1.188	0.188	19530
Pacific	511	**1.500**	0.750	0.375	17922
Pacific	513	**1.500**	0.750	0.625	37803
Pacific	511	**1.500**	0.875	0.313	17412
Hallite	18	**1.500**	0.875	0.375	17727
Hallite	18	**1.500**	0.984	0.380	17709
Pacific	FR	**1.500**	0.984	0.380	17096
Hallite	601	**1.500**	1.000	0.250	17257
Hallite	511	**1.500**	1.000	0.275	17038
Hallite	18	**1.500**	1.000	0.375	18175
Pacific	FR	**1.500**	1.000	0.375	17348
Hallite	513	**1.500**	1.000	0.413	17140
Hallite	513	**1.500**	1.000	0.413	43514
Pacific	PIP	**1.500**	1.125	0.063	38341
Hallite	611	**1.500**	1.125	0.188	35220
Hallite	511	**1.500**	1.125	0.207	19531
Pacific	18	**1.500**	1.125	0.219	17704
Hallite	606	**1.500**	1.125	0.250	16773
Hallite	513	**1.500**	1.125	0.275	19532
Hallite	513	**1.500**	1.125	0.344	17066
Pacific	513	**1.500**	1.125	0.375	17878
Hallite	511	**1.500**	1.188	0.172	17966
Pacific	513	**1.500**	1.250	0.125	16963
Hallite	511	**1.500**	1.250	0.138	43541
Hallite	651	**1.500**	1.250	0.188	36684
Hallite	513	**1.500**	1.250	0.207	19533

PISTON SEALS - SINGLE ACTING

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	18	**1.500**	1.250	0.250	17946
Hallite	606	**1.500**	1.250	0.250	17286
Hallite	651	**1.500**	1.250	0.250	36789
Hallite	513	**1.500**	1.250	0.275	17049
Pacific	511	**1.563**	1.063	0.250	17373
Hallite	611	**1.563**	1.188	0.188	35221
Pacific	513	**1.563**	1.188	0.250	17484
Pacific	513	**1.563**	1.188	0.313	17646
Pacific	511	**1.563**	1.313	0.125	16245
Hallite	511	**1.563**	1.188	0.207	17029
Hallite	513	**1.563**	1.188	0.344	43500
Hallite	511	**1.563**	1.250	0.172	16250
Pacific	513	**1.625**	0.625	0.500	37976
Hallite	18	**1.625**	0.750	0.375	18599
Pacific	511	**1.625**	0.875	0.375	17582
Hallite	511	**1.625**	1.000	0.344	17202
Hallite	513	**1.625**	1.000	0.413	18111
Hallite	18	**1.625**	1.000	0.438	17813
Pacific	FR	**1.625**	1.000	0.438	17141
Hallite	513	**1.625**	1.000	0.550	17266
Hallite	18	**1.625**	1.063	0.406	18121
Hallite	511	**1.625**	1.125	0.275	43551
Hallite	513	**1.625**	1.125	0.275	17062
Hallite	18	**1.625**	1.125	0.375	17774
Hallite	513	**1.625**	1.125	0.413	15858
Hallite	611	**1.625**	1.250	0.188	35222
Hallite	511	**1.625**	1.250	0.207	17037
Hallite	513	**1.625**	1.250	0.275	19534
Hallite	18	**1.625**	1.250	0.281	18337
Hallite	513	**1.625**	1.250	0.344	17138

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	513	**1.625**	1.250	0.413	15850
Hallite	18	**1.625**	1.250	0.500	17607
Hallite	18	**1.625**	1.313	0.148	17919
Hallite	511	**1.625**	1.375	0.138	16985
Hallite	513	**1.625**	1.375	0.207	19535
Hallite	513	**1.625**	1.375	0.275	17107
Hallite	513	**1.687**	1.437	0.275	35705
Pacific	511	**1.688**	0.938	0.375	37923
Pacific	601	**1.688**	1.063	0.375	18866
Pacific	511	**1.688**	1.188	0.250	17473
Hallite	18	**1.688**	1.188	0.375	17915
Pacific	513	**1.688**	1.313	0.188	37887
Hallite	18	**1.688**	1.375	0.148	17944
Pacific	511	**1.688**	1.438	0.125	17110
Hallite	511	**1.688**	1.375	0.172	15848
Pacific	513	**1.750**	0.750	0.500	37977
Hallite	18	**1.750**	0.875	0.750	18734
Hallite	18	**1.750**	1.000	0.375	18003
Pacific	FR	**1.750**	1.000	0.375	17445
Hallite	511	**1.750**	1.000	0.413	17674
Pacific	513	**1.750**	1.000	0.625	37804
Hallite	18	**1.750**	1.000	0.656	18560
Hallite	511	**1.750**	1.125	0.344	17216
Pacific	513	**1.750**	1.125	0.375	17496
Hallite	655	**1.750**	1.125	0.390	38237
Hallite	18	**1.750**	1.125	0.438	18187
Hallite	513	**1.750**	1.125	0.550	17303
Hallite	18	**1.750**	1.234	0.340	15826
Hallite	601	**1.750**	1.250	0.250	16774
Hallite	511	**1.750**	1.250	0.275	17069

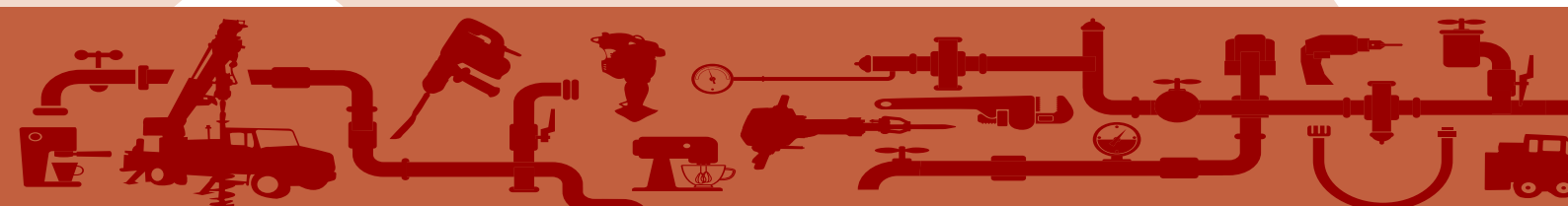
PISTON SEALS - SINGLE ACTING

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	18	**1.750**	1.250	0.280	17918
Hallite	18	**1.750**	1.250	0.375	17775
Hallite	601	**1.750**	1.250	0.375	17699
Pacific	FR	**1.750**	1.250	0.375	15337
Hallite	513	**1.750**	1.250	0.413	17155
Pacific	PIP	**1.750**	1.375	0.063	39615
Hallite	611	**1.750**	1.375	0.188	35225
Hallite	511	**1.750**	1.375	0.207	17051
Hallite	513	**1.750**	1.375	0.275	19537
Hallite	18	**1.750**	1.375	0.281	18267
Pacific	FR	**1.750**	1.375	0.281	17340
Hallite	513	**1.750**	1.375	0.344	17169
Hallite	513	**1.750**	1.375	0.344	43501
Hallite	601	**1.750**	1.375	0.375	17239
Hallite	513	**1.750**	1.375	0.413	17170
Hallite	511	**1.750**	1.500	0.014	17022
Pacific	PIP	**1.750**	1.500	0.063	42699
Hallite	513	**1.750**	1.500	0.275	17153
Pacific	511	**1.813**	1.188	0.313	17538
Pacific	511	**1.813**	1.313	0.250	17530
Pacific	513	**1.813**	1.438	0.188	37888
Pacific	513	**1.813**	1.438	0.313	37776
Pacific	513	**1.813**	1.500	0.313	17847
Pacific	511	**1.813**	1.563	0.125	16958
Hallite	18	**1.875**	0.875	0.750	18659
Pacific	513	**1.875**	1.000	0.438	37944
Pacific	511	**1.875**	1.125	0.375	17950
Hallite	18	**1.875**	1.250	0.313	17778
Pacific	FR	**1.875**	1.250	0.313	17204
Hallite	511	**1.875**	1.250	0.344	43563

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	513	**1.875**	1.250	0.344	17217
Pacific	513	**1.875**	1.250	0.375	18152
Hallite	18	**1.875**	1.250	0.438	18265
Pacific	FR	**1.875**	1.250	0.438	17478
Hallite	513	**1.875**	1.250	0.550	17352
Hallite	511	**1.875**	1.375	0.275	17156
Hallite	18	**1.875**	1.375	0.380	17777
Hallite	513	**1.875**	1.375	0.413	15859
Hallite	18	**1.875**	1.500	0.172	18163
Hallite	611	**1.875**	1.500	0.188	35226
Hallite	511	**1.875**	1.500	0.207	43546
Hallite	513	**1.875**	1.500	0.207	17067
Pacific	FR	**1.875**	1.500	0.250	15340
Hallite	513	**1.875**	1.500	0.275	15851
Pacific	513	**1.875**	1.500	0.281	37777
Hallite	513	**1.875**	1.500	0.344	17052
Hallite	513	**1.875**	1.500	0.413	17201
Hallite	513	**1.875**	1.500	0.447	35259
Hallite	511	**1.875**	1.625	0.138	17039
Hallite	513	**1.875**	1.625	0.207	35706
Hallite	513	**1.875**	1.625	0.275	17172
Pacific	511	**1.938**	1.438	0.250	17463
Hallite	18	**1.938**	1.438	0.375	18434
Pacific	511	**1.938**	1.688	0.125	37877
Pacific	FR	**1.938**	1.688	0.188	17295
Pacific	511	**2.000**	1.000	0.500	18455
Pacific	513	**2.000**	1.000	0.750	37839
Pacific	513	**2.000**	1.125	0.500	38059
Pacific	513	**2.000**	1.188	0.406	37939
Hallite	511	**2.000**	1.250	0.413	17713



PISTON SEALS - SINGLE ACTING

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	18	**2.000**	1.250	0.469	17913
Hallite	513	**2.000**	1.250	0.550	19538
Pacific	513	**2.000**	1.250	0.625	37805
Hallite	601	**2.000**	1.375	0.265	16511
Pacific	FR	**2.000**	1.375	0.313	15342
Pacific	FR	**2.000**	1.375	0.313	15714
Pacific	FRS	**2.000**	1.375	0.313	17644
Hallite	511	**2.000**	1.375	0.344	17300
Hallite	18	**2.000**	1.375	0.375	17959
Hallite	18	**2.000**	1.375	0.438	18188
Pacific	FR	**2.000**	1.375	0.438	17560
Hallite	601	**2.000**	1.375	0.500	17795
Hallite	606	**2.000**	1.375	0.500	16512
Pacific	601	**2.000**	1.375	0.500	17222
Hallite	513	**2.000**	1.375	0.550	17409
Hallite	18	**2.000**	1.484	0.340	17992
Hallite	601	**2.000**	1.500	0.250	17384
Hallite	511	**2.000**	1.500	0.275	17226
Hallite	18	**2.000**	1.500	0.280	17840
Hallite	513	**2.000**	1.500	0.344	19539
Hallite	18	**2.000**	1.500	0.375	17842
Hallite	606	**2.000**	1.500	0.375	17506
Pacific	FR	**2.000**	1.500	0.375	15344
Hallite	513	**2.000**	1.500	0.413	17341
Hallite	18	**2.000**	1.500	0.656	18863
Pacific	PIP	**2.000**	1.625	0.063	38342
Hallite	606	**2.000**	1.625	0.188	16776
Hallite	611	**2.000**	1.625	0.188	35230
Hallite	511	**2.000**	1.625	0.207	17139
Hallite	659	**2.000**	1.625	0.260	34633

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	513	**2.000**	1.625	0.275	16719
Hallite	18	**2.000**	1.625	0.276	17867
Hallite	606	**2.000**	1.625	0.313	16778
Hallite	513	**2.000**	1.625	0.344	17675
Hallite	606	**2.000**	1.625	0.375	17325
Hallite	513	**2.000**	1.625	0.413	17248
Hallite	511	**2.000**	1.750	0.138	17048
Hallite	513	**2.000**	1.750	0.275	17218
Pacific	513	**2.063**	1.250	0.406	37940
Pacific	511	**2.063**	1.313	0.375	37924
Pacific	511	**2.063**	1.313	0.438	37806
Pacific	511	**2.063**	1.688	0.188	17411
Hallite	18	**2.063**	1.688	0.313	18486
Pacific	513	**2.125**	1.125	0.500	37978
Pacific	511	**2.125**	1.250	0.438	37945
Hallite	511	**2.125**	1.375	0.413	18374
Hallite	18	**2.125**	1.500	0.313	17886
Hallite	511	**2.125**	1.500	0.344	17410
Hallite	651	**2.125**	1.500	0.397	47051
Hallite	513	**2.125**	1.500	0.413	18384
Hallite	18	**2.125**	1.500	0.438	18277
Pacific	FRS	**2.125**	1.500	0.438	17735
Hallite	513	**2.125**	1.500	0.550	17526
Hallite	18	**2.125**	1.500	0.688	18930
Hallite	601	**2.125**	1.625	0.250	16423
Pacific	513	**2.125**	1.625	0.375	15860
Hallite	513	**2.125**	1.625	0.413	43517
Hallite	611	**2.125**	1.750	0.188	16796
Hallite	511	**2.125**	1.750	0.207	17154
Hallite	513	**2.125**	1.750	0.250	43502

PISTON SEALS - SINGLE ACTING

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	FR	**2.125**	1.750	0.250	15351
Hallite	18	**2.125**	1.750	0.276	17883
Hallite	513	**2.125**	1.750	0.344	16252
Hallite	513	**2.125**	1.750	0.413	17299
Hallite	511	**2.125**	1.875	0.138	17146
Hallite	513	**2.125**	1.875	0.207	19541
Hallite	513	**2.125**	1.875	0.275	19540
Pacific	513	**2.188**	1.188	0.500	37979
Pacific	513	**2.188**	1.438	0.375	37925
Hallite	18	**2.188**	1.500	0.438	17945
Pacific	FR	**2.188**	1.500	0.438	17437
Pacific	511	**2.188**	1.750	0.219	37895
Pacific	511	**2.250**	1.250	0.500	18274
Hallite	18	**2.250**	1.250	0.625	18858
Pacific	513	**2.250**	1.375	0.438	37946
Pacific	513	**2.250**	1.438	0.406	37941
Hallite	511	**2.250**	1.500	0.413	17749
Hallite	18	**2.250**	1.500	0.469	18005
Hallite	513	**2.250**	1.500	0.550	17938
Hallite	18	**2.250**	1.500	0.563	17845
Hallite	513	**2.250**	1.500	0.688	17939
Hallite	511	**2.250**	1.625	0.344	15866
Pacific	513	**2.250**	1.625	0.375	18436
Hallite	18	**2.250**	1.625	0.438	17914
Pacific	513	**2.250**	1.625	0.500	16292
Hallite	18	**2.250**	1.625	0.750	18036
Hallite	18	**2.250**	1.730	0.340	18328
Hallite	601	**2.250**	1.750	0.250	17377
Hallite	511	**2.250**	1.750	0.275	43552
Hallite	513	**2.250**	1.750	0.275	17342

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	18	**2.250**	1.750	0.313	17916
Hallite	18	**2.250**	1.750	0.375	17902
Hallite	601	**2.250**	1.750	0.375	16516
Hallite	606	**2.250**	1.750	0.375	16839
Pacific	FR	**2.250**	1.750	0.375	17673
Pacific	FR	**2.250**	1.750	0.375	18027
Hallite	513	**2.250**	1.750	0.413	17470
Hallite	511	**2.250**	1.875	0.188	17171
Hallite	606	**2.250**	1.875	0.375	34713
Hallite	513	**2.250**	1.875	0.413	17408
Hallite	511	**2.250**	2.000	0.138	17070
Hallite	513	**2.250**	2.000	0.207	19543
Hallite	513	**2.250**	2.000	0.275	17302
Pacific	513	**2.313**	1.313	0.500	37980
Pacific	513	**2.313**	1.563	0.375	37926
Pacific	511	**2.375**	1.375	0.500	37981
Hallite	511	**2.375**	1.625	0.413	17998
Hallite	511	**2.375**	1.625	0.413	43568
Hallite	18	**2.375**	1.625	0.625	18802
Pacific	513	**2.375**	1.625	0.625	18553
Hallite	601	**2.375**	1.750	0.265	16517
Hallite	511	**2.375**	1.750	0.344	17525
Hallite	513	**2.375**	1.750	0.413	18118
Hallite	18	**2.375**	1.750	0.438	18073
Pacific	513	**2.375**	1.750	0.438	38102
Hallite	513	**2.375**	1.750	0.550	17626
Hallite	601	**2.375**	1.750	0.563	17880
Hallite	511	**2.375**	1.875	0.275	18240
Hallite	18	**2.375**	1.875	0.375	18291
Hallite	513	**2.375**	1.875	0.413	16257

PISTON SEALS - SINGLE ACTING

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	511	**2.375**	2.000	0.207	17489
Hallite	601	**2.375**	2.000	0.250	17242
Hallite	513	**2.375**	2.000	0.275	19544
Hallite	513	**2.375**	2.000	0.344	15853
Hallite	513	**2.375**	2.000	0.413	17469
Pacific	513	**2.375**	2.063	0.156	37885
Pacific	513	**2.375**	2.125	0.125	17200
Hallite	513	**2.375**	2.125	0.275	42280
Pacific	FR	**2.438**	1.750	0.438	15355
Hallite	601	**2.438**	1.938	0.290	16425
Hallite	18	**2.438**	1.938	0.375	18506
Pacific	513	**2.438**	2.063	0.188	37889
Pacific	513	**2.500**	1.250	0.625	38012
Hallite	511	**2.500**	1.500	0.550	18276
Hallite	513	**2.500**	1.500	0.750	35260
Hallite	606	**2.500**	1.625	0.500	16513
Pacific	513	**2.500**	1.688	0.406	37942
Hallite	511	**2.500**	1.750	0.413	17956
Hallite	18	**2.500**	1.750	0.500	18403
Hallite	513	**2.500**	1.750	0.550	18054
Hallite	513	**2.500**	1.750	0.688	18053
Hallite	511	**2.500**	1.875	0.344	17590
Hallite	18	**2.500**	1.875	0.375	17863
Pacific	FR	**2.500**	1.875	0.375	17851
Hallite	655	**2.500**	1.875	0.400	36589
Hallite	18	**2.500**	1.875	0.438	18074
Hallite	606	**2.500**	1.875	0.500	18023
Hallite	656	**2.500**	1.875	0.500	36771
Hallite	513	**2.500**	1.875	0.550	17702
Pacific	PIP	**2.500**	2.000	0.125	38343

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	606	**2.500**	2.000	0.250	19512
Hallite	511	**2.500**	2.000	0.275	43553
Hallite	513	**2.500**	2.000	0.275	17471
Pacific	FR	**2.500**	2.000	0.313	17420
Hallite	18	**2.500**	2.000	0.375	17884
Hallite	601	**2.500**	2.000	0.375	17453
Hallite	606	**2.500**	2.000	0.375	17379
Hallite	626	**2.500**	2.000	0.375	36748
Hallite	513	**2.500**	2.000	0.413	17535
Pacific	513	**2.500**	2.063	0.219	37896
Pacific	PIP	**2.500**	2.125	0.063	40049
Hallite	511	**2.500**	2.125	0.207	17215
Hallite	513	**2.500**	2.125	0.207	43503
Hallite	601	**2.500**	2.125	0.250	16519
Hallite	606	**2.500**	2.125	0.250	16779
Hallite	659	**2.500**	2.125	0.262	34632
Hallite	513	**2.500**	2.125	0.275	17593
Hallite	606	**2.500**	2.125	0.313	16780
Pacific	513	**2.500**	2.125	0.313	17670
Hallite	606	**2.500**	2.125	0.375	17763
Hallite	513	**2.500**	2.125	0.413	17524
Hallite	513	**2.500**	2.250	0.275	42279
Pacific	511	**2.563**	1.750	0.406	37943
Hallite	513	**2.563**	2.188	0.375	19547
Pacific	513	**2.625**	1.750	0.438	37970
Pacific	511	**2.625**	1.875	0.375	18554
Hallite	18	**2.625**	1.875	0.625	18493
Pacific	513	**2.625**	1.875	0.625	37807
Hallite	601	**2.625**	2.000	0.313	17490
Pacific	FR	**2.625**	2.000	0.313	17928

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	511	**2.625**	2.000	0.344	17643
Pacific	513	**2.625**	2.000	0.375	18261
Hallite	18	**2.625**	2.000	0.438	18226
Pacific	FRS	**2.625**	2.000	0.438	15362
Hallite	601	**2.625**	2.000	0.500	16518
Hallite	513	**2.625**	2.000	0.550	17767
Hallite	601	**2.625**	2.000	0.563	17693
Hallite	513	**2.625**	2.000	0.619	19548
Hallite	511	**2.625**	2.125	0.275	43554
Hallite	513	**2.625**	2.125	0.275	17511
Hallite	601	**2.625**	2.125	0.375	17602
Pacific	FR	**2.625**	2.125	0.375	18300
Hallite	513	**2.625**	2.125	0.413	19550
Hallite	511	**2.625**	2.250	0.207	17621
Hallite	513	**2.625**	2.250	0.344	16253
Hallite	606	**2.625**	2.250	0.375	34714
Hallite	513	**2.625**	2.250	0.413	17575
Hallite	511	**2.625**	2.375	0.138	17794
Pacific	513	**2.625**	2.375	0.250	37778
Pacific	511	**2.750**	1.750	0.500	18442
Hallite	18	**2.750**	1.750	0.625	18213
Hallite	513	**2.750**	1.750	0.825	19549
Pacific	513	**2.750**	1.875	0.438	37971
Pacific	FR	**2.750**	2.000	0.375	15365
Hallite	511	**2.750**	2.000	0.413	18058
Hallite	18	**2.750**	2.000	0.438	18086
Hallite	513	**2.750**	2.000	0.550	18171
Hallite	18	**2.750**	2.000	0.563	18049
Pacific	FR	**2.750**	2.000	0.563	18101
Hallite	513	**2.750**	2.000	0.688	18172

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	511	**2.750**	2.125	0.344	17703
Pacific	FR	**2.750**	2.125	0.375	18091
Hallite	513	**2.750**	2.125	0.550	17862
Hallite	513	**2.750**	2.125	0.688	19551
Hallite	511	**2.750**	2.250	0.275	17550
Hallite	18	**2.750**	2.250	0.375	17888
Hallite	601	**2.750**	2.250	0.375	17577
Pacific	FR	**2.750**	2.250	0.375	15366
Hallite	513	**2.750**	2.250	0.413	17683
Hallite	513	**2.750**	2.250	0.563	35261
Hallite	18	**2.750**	2.313	0.375	18624
Pacific	FR	**2.750**	2.313	0.375	17787
Hallite	511	**2.750**	2.375	0.207	16254
Pacific	513	**2.750**	2.375	0.250	18105
Hallite	513	**2.750**	2.375	0.413	15854
Pacific	511	**2.750**	2.500	0.125	16247
Pacific	511	**2.750**	2.500	0.250	37779
Hallite	513	**2.750**	2.500	0.275	43497
Pacific	513	**2.813**	2.063	0.375	37935
Pacific	511	**2.875**	1.875	0.500	37982
Pacific	511	**2.875**	2.000	0.438	18827
Hallite	511	**2.875**	2.125	0.413	18388
Hallite	18	**2.875**	2.125	0.563	18503
Pacific	FR	**2.875**	2.125	0.563	17788
Pacific	513	**2.875**	2.125	0.625	18953
Hallite	511	**2.875**	2.250	0.344	43564
Hallite	513	**2.875**	2.250	0.344	17768
Hallite	18	**2.875**	2.250	0.438	18087
Hallite	513	**2.875**	2.250	0.550	17955
Hallite	511	**2.875**	2.375	0.275	15861

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	601	**2.875**	2.375	0.375	34406
Hallite	513	**2.875**	2.375	0.413	15862
Hallite	511	**2.875**	2.500	0.207	17287
Hallite	513	**2.875**	2.500	0.275	43505
Pacific	513	**2.875**	2.500	0.313	17893
Hallite	513	**2.875**	2.500	0.413	17604
Pacific	513	**2.875**	2.625	0.125	37878
Hallite	601	**2.894**	2.500	0.268	18236
Pacific	513	**2.938**	2.500	0.219	37900
Pacific	511	**3.000**	1.750	0.625	38013
Hallite	18	**3.000**	1.813	1.000	19088
Pacific	513	**3.000**	1.875	0.875	37846
Hallite	511	**3.000**	2.000	0.550	18528
Hallite	513	**3.000**	2.000	0.825	16349
Pacific	511	**3.000**	2.125	0.438	37972
Pacific	513	**3.000**	2.188	0.406	37968
Hallite	18	**3.000**	2.250	0.375	18147
Hallite	511	**3.000**	2.250	0.413	18186
Hallite	606	**3.000**	2.250	0.455	18574
Hallite	18	**3.000**	2.250	0.500	18145
Hallite	659	**3.000**	2.250	0.500	36749
Pacific	FR	**3.000**	2.250	0.500	18142
Hallite	513	**3.000**	2.250	0.550	18322
Hallite	18	**3.000**	2.250	0.563	18178
Hallite	513	**3.000**	2.250	0.625	18323
Hallite	601	**3.000**	2.375	0.313	17661
Hallite	511	**3.000**	2.375	0.344	43565
Hallite	513	**3.000**	2.375	0.344	17852
Hallite	18	**3.000**	2.375	0.469	18126
Hallite	606	**3.000**	2.375	0.500	16520

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BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	511	**3.000**	2.375	0.500	37800
Pacific	513	**3.000**	2.375	0.500	17967A
Hallite	513	**3.000**	2.375	0.550	17967
Pacific	601	**3.000**	2.375	0.563	17691
Pacific	601	**3.000**	2.375	0.563	18723
Hallite	18	**3.000**	2.484	0.350	18534
Pacific	PIP	**3.000**	2.500	0.125	38339
Hallite	511	**3.000**	2.500	0.223	36543
Hallite	606	**3.000**	2.500	0.250	19513
Hallite	511	**3.000**	2.500	0.275	17663
Hallite	18	**3.000**	2.500	0.313	18020
Hallite	513	**3.000**	2.500	0.344	19556
Hallite	601	**3.000**	2.500	0.375	17731
Hallite	606	**3.000**	2.500	0.375	17680
Hallite	626	**3.000**	2.500	0.375	36750
Hallite	513	**3.000**	2.500	0.413	17816
Pacific	511	**3.000**	2.563	0.219	37901
Hallite	511	**3.000**	2.625	0.207	17343
Hallite	601	**3.000**	2.625	0.250	36564
Hallite	659	**3.000**	2.625	0.260	16431
Hallite	513	**3.000**	2.625	0.275	19555
Hallite	513	**3.000**	2.625	0.344	19557
Hallite	606	**3.000**	2.625	0.375	16817
Hallite	513	**3.000**	2.625	0.413	17701
Hallite	511	**3.000**	2.750	0.138	16248
Pacific	513	**3.063**	1.813	0.625	38014
Pacific	513	**3.125**	1.875	0.625	38015
Pacific	513	**3.125**	1.875	1.000	37848
Hallite	511	**3.125**	2.125	0.550	18583
Pacific	513	**3.125**	2.250	0.375	37836

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	511	**3.125**	2.375	0.375	18377
Pacific	513	**3.125**	2.375	0.500	18742
Hallite	18	**3.125**	2.375	0.563	18225
Hallite	513	**3.125**	2.375	0.688	19558
Hallite	18	**3.125**	2.493	0.490	18149
Hallite	601	**3.125**	2.500	0.313	17700
Hallite	511	**3.125**	2.500	0.344	17908
Pacific	FR	**3.125**	2.500	0.375	18114
Hallite	513	**3.125**	2.500	0.413	19559
Hallite	18	**3.125**	2.500	0.438	18197
Hallite	513	**3.125**	2.500	0.550	18030
Hallite	511	**3.125**	2.625	0.275	16258
Hallite	601	**3.125**	2.625	0.375	17615
Pacific	513	**3.125**	2.625	0.375	15863
Hallite	511	**3.125**	2.750	0.207	43547
Hallite	513	**3.125**	2.750	0.207	17394
Hallite	513	**3.125**	2.750	0.344	19560
Hallite	513	**3.125**	2.750	0.413	17750
Hallite	511	**3.125**	2.875	0.138	17475
Hallite	513	**3.125**	2.875	0.275	35262
Pacific	513	**3.188**	2.438	0.375	37936
Pacific	513	**3.250**	2.000	0.625	38016
Pacific	511	**3.250**	2.250	0.500	18914
Pacific	PIP	**3.250**	2.500	0.188	42520
Hallite	511	**3.250**	2.500	0.413	18304
Hallite	513	**3.250**	2.500	0.550	18414
Hallite	18	**3.250**	2.500	0.563	18211
Hallite	18	**3.250**	2.500	0.625	18262
Hallite	656	**3.250**	2.500	0.625	36772
Hallite	513	**3.250**	2.500	0.688	18415

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BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	513	**3.250**	2.500	0.938	37808
Hallite	511	**3.250**	2.625	0.344	18113
Hallite	18	**3.250**	2.625	0.500	18212
Hallite	606	**3.250**	2.625	0.500	18421
Pacific	513	**3.250**	2.625	0.500	18177
Hallite	601	**3.250**	2.625	0.563	18686
Pacific	601	**3.250**	2.625	0.563	17551
Hallite	606	**3.250**	2.750	0.250	19514
Hallite	511	**3.250**	2.750	0.275	43555
Hallite	513	**3.250**	2.750	0.275	17769
Hallite	18	**3.250**	2.750	0.375	18268
Hallite	606	**3.250**	2.750	0.375	16837
Pacific	FR	**3.250**	2.750	0.375	18153
Hallite	513	**3.250**	2.750	0.413	17937
Pacific	513	**3.250**	2.750	0.500	18749
Hallite	511	**3.250**	2.875	0.207	17423
Hallite	601	**3.250**	2.875	0.250	16432
Hallite	606	**3.250**	2.875	0.250	16592
Hallite	513	**3.250**	2.875	0.413	16255
Hallite	511	**3.250**	3.000	0.138	17468
Pacific	513	**3.250**	3.000	0.250	37780
Pacific	513	**3.375**	2.250	0.875	37847
Pacific	513	**3.375**	2.375	0.500	37983
Pacific	511	**3.375**	2.500	0.438	38103
Hallite	18	**3.375**	2.500	0.625	18150
Pacific	513	**3.375**	2.625	0.375	18544
Hallite	18	**3.375**	2.625	0.563	15843
Pacific	FR	**3.375**	2.625	0.563	18772
Hallite	513	**3.375**	2.625	0.688	16315
Hallite	511	**3.375**	2.750	0.344	18032

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	513	**3.375**	2.750	0.413	19561
Pacific	FR	**3.375**	2.750	0.438	18176
Hallite	513	**3.375**	2.750	0.550	18143
Hallite	601	**3.375**	2.750	0.563	18060
Hallite	511	**3.375**	2.875	0.275	18015
Pacific	513	**3.375**	2.875	0.375	18788
Hallite	511	**3.375**	3.000	0.207	43548
Hallite	513	**3.375**	3.000	0.207	17472
Hallite	513	**3.375**	3.000	0.275	19564
Hallite	513	**3.375**	3.000	0.344	19563
Hallite	513	**3.375**	3.000	0.413	17441
Pacific	513	**3.438**	3.000	0.219	37902
Pacific	513	**3.500**	2.000	1.125	37851
Pacific	513	**3.500**	2.250	0.625	38017
Hallite	511	**3.500**	2.500	0.550	18944
Hallite	18	**3.500**	2.500	0.750	18405
Pacific	FR	**3.500**	2.500	0.750	18313
Hallite	513	**3.500**	2.500	0.825	19562
Pacific	513	**3.500**	2.688	0.406	37969
Pacific	FR	**3.500**	2.750	0.375	18314
Hallite	511	**3.500**	2.750	0.413	18408
Hallite	18	**3.500**	2.750	0.500	18258
Hallite	606	**3.500**	2.750	0.500	18461
Hallite	513	**3.500**	2.750	0.550	18524
Hallite	18	**3.500**	2.750	0.563	18595
Pacific	FR	**3.500**	2.750	0.563	18336
Hallite	606	**3.500**	2.750	0.625	18559
Hallite	656	**3.500**	2.750	0.625	36773
Hallite	513	**3.500**	2.750	0.688	18525
Hallite	606	**3.500**	2.875	0.313	35905

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BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	511	**3.500**	2.875	0.344	18059
Hallite	606	**3.500**	2.875	0.500	18572
Hallite	513	**3.500**	2.875	0.550	18173
Pacific	PIP	**3.500**	3.000	0.125	38340
Hallite	511	**3.500**	3.000	0.223	36544
Hallite	606	**3.500**	3.000	0.250	19515
Hallite	511	**3.500**	3.000	0.275	17879
Hallite	18	**3.500**	3.000	0.375	18123
Hallite	606	**3.500**	3.000	0.375	17717
Hallite	626	**3.500**	3.000	0.375	36752
Hallite	513	**3.500**	3.000	0.413	18041
Hallite	513	**3.500**	3.000	0.550	19565
Hallite	513	**3.500**	3.000	0.619	16539
Pacific	513	**3.500**	3.063	0.219	37903
Hallite	18	**3.500**	3.125	0.172	18089
Hallite	511	**3.500**	3.125	0.207	17510
Hallite	513	**3.500**	3.125	0.275	19566
Hallite	659	**3.500**	3.125	0.275	36590
Hallite	606	**3.500**	3.125	0.375	16589
Hallite	513	**3.500**	3.125	0.413	17940
Pacific	513	**3.563**	3.188	0.375	19568
Pacific	513	**3.625**	2.375	0.625	38018
Pacific	513	**3.625**	2.500	0.563	38009
Hallite	18	**3.625**	2.750	0.750	18956
Hallite	18	**3.625**	2.875	0.563	18894
Hallite	511	**3.625**	3.000	0.344	18112
Hallite	513	**3.625**	3.000	0.413	35714
Hallite	513	**3.625**	3.000	0.550	18209
Hallite	601	**3.625**	3.000	0.563	18522
Hallite	513	**3.625**	3.125	0.275	16259

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	513	**3.625**	3.125	0.413	19567
Pacific	513	**3.625**	3.188	0.500	16289
Hallite	511	**3.625**	3.250	0.207	17576
Hallite	513	**3.625**	3.250	0.344	19569
Hallite	513	**3.625**	3.250	0.413	18016
Pacific	511	**3.750**	2.500	0.625	38019
Hallite	18	**3.750**	2.500	1.000	18949
Pacific	513	**3.750**	2.625	0.563	38010
Hallite	18	**3.750**	2.750	0.500	18761
Hallite	511	**3.750**	2.750	0.550	19033
Hallite	18	**3.750**	2.750	0.750	18498
Pacific	513	**3.750**	2.875	0.438	37973
Hallite	18	**3.750**	3.000	0.375	18271
Hallite	601	**3.750**	3.000	0.375	18158
Hallite	511	**3.750**	3.000	0.413	18514
Pacific	FR	**3.750**	3.000	0.500	18396
Hallite	513	**3.750**	3.000	0.550	18622
Hallite	18	**3.750**	3.000	0.563	18278
Pacific	FR	**3.750**	3.000	0.563	18588
Hallite	513	**3.750**	3.000	0.688	18623
Hallite	511	**3.750**	3.125	0.344	18136
Hallite	18	**3.750**	3.125	0.438	18628
Hallite	513	**3.750**	3.125	0.550	18305
Pacific	513	**3.750**	3.188	0.500	18617
Hallite	511	**3.750**	3.250	0.275	17982
Hallite	606	**3.750**	3.250	0.375	16588
Hallite	513	**3.750**	3.250	0.413	18120
Hallite	511	**3.750**	3.375	0.207	15855
Hallite	513	**3.750**	3.375	0.413	18555
Pacific	511	**3.750**	3.500	0.250	37781

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BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	513	**3.875**	2.875	0.500	37986
Hallite	18	**3.875**	2.875	0.625	18359
Pacific	511	**3.875**	3.000	0.438	37974
Pacific	513	**3.875**	3.000	0.688	37837
Pacific	511	**3.875**	3.125	0.375	16316
Hallite	18	**3.875**	3.125	0.563	18358
Hallite	513	**3.875**	3.125	0.688	16317
Hallite	511	**3.875**	3.250	0.344	43566
Hallite	513	**3.875**	3.250	0.344	18604
Hallite	513	**3.875**	3.250	0.550	18343
Hallite	601	**3.875**	3.250	0.563	18812
Hallite	511	**3.875**	3.375	0.275	16260
Pacific	513	**3.875**	3.375	0.375	16261
Hallite	18	**3.875**	3.375	0.438	18076
Pacific	513	**3.875**	3.438	0.219	37904
Hallite	511	**3.875**	3.500	0.207	17692
Hallite	513	**3.875**	3.500	0.413	18144
Pacific	513	**3.875**	3.625	0.125	37879
Hallite	18	**3.900**	3.400	0.375	18715
Pacific	513	**4.000**	2.000	1.000	38070
Hallite	511	**4.000**	2.750	0.688	19030
Pacific	513	**4.000**	2.750	1.000	37831
Pacific	513	**4.000**	2.875	0.875	37830
Pacific	FR	**4.000**	3.000	0.375	18371
Hallite	511	**4.000**	3.000	0.550	18921
Pacific	FR	**4.000**	3.000	0.625	18339
Hallite	513	**4.000**	3.000	0.825	15870
Pacific	511	**4.000**	3.125	0.438	37975
Hallite	601	**4.000**	3.250	0.375	17994
Hallite	606	**4.000**	3.250	0.375	19521

PISTON SEALS - SINGLE ACTING

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	511	**4.000**	3.250	0.413	18582
Hallite	606	**4.000**	3.250	0.500	18763
Hallite	513	**4.000**	3.250	0.550	18696
Hallite	18	**4.000**	3.250	0.563	18488
Pacific	FR	**4.000**	3.250	0.563	18431
Pacific	FRS	**4.000**	3.250	0.563	34435
Hallite	606	**4.000**	3.250	0.625	18804
Hallite	626	**4.000**	3.250	0.625	36754
Hallite	656	**4.000**	3.250	0.625	36774
Hallite	513	**4.000**	3.250	0.688	18700
Hallite	511	**4.000**	3.375	0.344	18256
Hallite	18	**4.000**	3.375	0.438	18584
Hallite	606	**4.000**	3.375	0.500	18707
Hallite	513	**4.000**	3.375	0.550	18368
Pacific	PIP	**4.000**	3.500	0.188	38322
Hallite	511	**4.000**	3.500	0.223	36546
Hallite	606	**4.000**	3.500	0.250	19516
Hallite	511	**4.000**	3.500	0.275	18052
Hallite	606	**4.000**	3.500	0.313	18710
Hallite	513	**4.000**	3.500	0.344	19570
Hallite	18	**4.000**	3.500	0.375	18306
Hallite	606	**4.000**	3.500	0.375	18708
Pacific	FR	**4.000**	3.500	0.375	18138
Hallite	513	**4.000**	3.500	0.413	18191
Hallite	511	**4.000**	3.625	0.207	17751
Hallite	659	**4.000**	3.625	0.250	16435
Hallite	513	**4.000**	3.625	0.275	19571
Hallite	513	**4.000**	3.625	0.344	19576
Hallite	606	**4.000**	3.625	0.375	18709
Hallite	513	**4.000**	3.625	0.413	18193

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	511	**4.000**	3.750	0.138	19575
Hallite	18	**4.063**	3.063	0.750	18936
Pacific	511	**4.125**	3.250	0.438	18757
Hallite	511	**4.125**	3.375	0.413	18893
Hallite	18	**4.125**	3.375	0.563	15841
Pacific	FR	**4.125**	3.375	0.563	18460
Hallite	513	**4.125**	3.375	0.688	16318
Hallite	511	**4.125**	3.500	0.344	18551
Hallite	513	**4.125**	3.500	0.550	18397
Hallite	511	**4.125**	3.625	0.275	16262
Hallite	513	**4.125**	3.625	0.413	18614
Hallite	511	**4.125**	3.750	0.207	17961
Hallite	513	**4.125**	3.750	0.207	17861
Hallite	513	**4.125**	3.750	0.344	19572
Hallite	513	**4.125**	3.750	0.413	18324
Hallite	513	**4.125**	3.875	0.275	19574
Pacific	513	**4.250**	2.750	1.125	37853
Pacific	511	**4.250**	3.000	0.625	16378
Pacific	511	**4.250**	3.250	0.500	19084
Hallite	511	**4.250**	3.500	0.413	18667
Hallite	513	**4.250**	3.500	0.550	18766
Hallite	18	**4.250**	3.500	0.563	18416
Hallite	659	**4.250**	3.500	0.563	36785
Pacific	FR	**4.250**	3.500	0.563	18694
Hallite	513	**4.250**	3.500	0.688	18767
Hallite	601	**4.250**	3.625	0.563	18852
Pacific	511	**4.250**	3.688	0.375	19054
Hallite	511	**4.250**	3.750	0.275	43556
Hallite	513	**4.250**	3.750	0.275	18135
Hallite	606	**4.250**	3.750	0.375	18764

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	513	**4.250**	3.750	0.413	18292
Hallite	513	**4.250**	3.750	0.619	18293
Hallite	511	**4.250**	3.875	0.207	16256
Hallite	513	**4.250**	3.875	0.250	35265
Hallite	513	**4.250**	3.875	0.413	19577
Hallite	511	**4.250**	4.000	0.138	19579
Pacific	513	**4.375**	3.000	0.688	38023
Hallite	511	**4.375**	3.375	0.550	19578
Pacific	513	**4.375**	3.375	0.625	37840
Hallite	18	**4.375**	3.375	0.750	19159
Pacific	513	**4.375**	3.625	0.375	19151
Hallite	513	**4.375**	3.625	0.688	19017
Hallite	511	**4.375**	3.750	0.344	18257
Hallite	513	**4.375**	3.750	0.413	19580
Hallite	513	**4.375**	3.750	0.550	18481
Hallite	511	**4.375**	3.875	0.275	16263
Hallite	513	**4.375**	3.875	0.413	35710
Hallite	511	**4.375**	4.000	0.207	17949
Hallite	513	**4.375**	4.000	0.207	17957
Hallite	513	**4.375**	4.000	0.275	19582
Hallite	513	**4.375**	4.000	0.344	19581
Hallite	513	**4.375**	4.000	0.413	18387
Pacific	513	**4.438**	3.875	0.500	37799
Pacific	513	**4.500**	3.000	0.750	38024
Pacific	511	**4.500**	3.500	0.500	18995
Pacific	FR	**4.500**	3.500	0.563	18993
Hallite	18	**4.500**	3.500	0.750	18600
Hallite	511	**4.500**	3.500	0.750	15871
Hallite	18	**4.500**	3.500	0.875	18668
Pacific	513	**4.500**	3.625	0.438	37993

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	601	**4.500**	3.750	0.375	18133
Hallite	511	**4.500**	3.750	0.413	18730
Hallite	18	**4.500**	3.750	0.500	18404
Hallite	513	**4.500**	3.750	0.550	18818
Hallite	606	**4.500**	3.750	0.625	16525
Hallite	656	**4.500**	3.750	0.625	36775
Hallite	513	**4.500**	3.750	0.688	18819
Hallite	513	**4.500**	3.875	0.550	18502
Hallite	18	**4.500**	3.875	0.563	19024
Pacific	PIP	**4.500**	4.000	0.188	38323
Hallite	511	**4.500**	4.000	0.275	18192
Pacific	513	**4.500**	4.000	0.313	18579
Hallite	18	**4.500**	4.000	0.375	18375
Hallite	606	**4.500**	4.000	0.375	18453
Hallite	513	**4.500**	4.000	0.413	18366
Hallite	601	**4.500**	4.000	0.511	18157
Hallite	513	**4.500**	4.000	0.550	19585
Hallite	513	**4.500**	4.000	0.619	18367
Hallite	511	**4.500**	4.125	0.207	18031
Hallite	513	**4.500**	4.125	0.275	19584
Hallite	513	**4.500**	4.125	0.413	18480
Pacific	513	**4.500**	4.250	0.125	37880
Pacific	513	**4.625**	3.125	0.750	38025
Pacific	513	**4.625**	3.625	0.500	37987
Hallite	18	**4.625**	3.625	0.750	18698
Hallite	511	**4.625**	3.875	0.413	16319
Pacific	513	**4.625**	3.875	0.625	16320
Hallite	511	**4.625**	4.000	0.344	18433
Hallite	513	**4.625**	4.000	0.550	18538
Hallite	513	**4.625**	4.000	0.619	16295

PISTON SEALS - SINGLE ACTING

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	513	**4.625**	4.125	0.275	36547
Hallite	513	**4.625**	4.125	0.413	19587
Hallite	513	**4.625**	4.250	0.344	19586
Hallite	513	**4.625**	4.250	0.413	18533
Pacific	513	**4.625**	4.375	0.125	37881
Pacific	513	**4.750**	3.500	0.625	16380
Pacific	513	**4.750**	3.500	1.000	37849
Pacific	511	**4.750**	3.750	0.500	18625
Pacific	513	**4.750**	3.750	0.688	37841
Hallite	18	**4.750**	3.750	0.750	18637
Pacific	FR	**4.750**	3.750	0.750	18828
Pacific	513	**4.750**	3.875	0.750	18832
Hallite	18	**4.750**	3.984	0.560	18507
Hallite	601	**4.750**	4.000	0.375	18332
Hallite	511	**4.750**	4.000	0.413	18787
Hallite	513	**4.750**	4.000	0.550	18861
Hallite	513	**4.750**	4.000	0.688	18860
Hallite	513	**4.750**	4.125	0.550	18558
Pacific	513	**4.750**	4.125	0.563	37801
Hallite	511	**4.750**	4.250	0.275	18275
Hallite	513	**4.750**	4.250	0.413	18465
Hallite	511	**4.750**	4.250	0.563	15864
Hallite	511	**4.750**	4.375	0.207	18778
Hallite	513	**4.750**	4.375	0.413	18842
Pacific	513	**4.750**	4.500	0.125	37882
Pacific	513	**4.813**	4.063	0.375	15630
Pacific	513	**4.875**	4.000	0.438	16346
Pacific	513	**4.875**	4.000	0.625	37838
Hallite	18	**4.875**	4.000	0.656	18714
Hallite	511	**4.875**	4.125	0.413	19588

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	511	**4.875**	4.250	0.344	18410
Hallite	513	**4.875**	4.250	0.344	18492
Hallite	513	**4.875**	4.250	0.550	18552
Hallite	601	**4.875**	4.250	0.563	36091
Pacific	513	**4.875**	4.250	0.563	19060
Pacific	601	**4.875**	4.250	0.563	17984
Hallite	511	**4.875**	4.375	0.275	43557
Hallite	513	**4.875**	4.375	0.275	18490
Pacific	513	**4.875**	4.375	0.563	16264
Hallite	511	**4.875**	4.500	0.207	18134
Hallite	513	**4.875**	4.500	0.413	18589
Pacific	513	**5.000**	3.000	1.000	38071
Pacific	513	**5.000**	3.500	0.750	38026
Pacific	511	**5.000**	3.750	0.625	16381
Hallite	511	**5.000**	4.000	0.550	19087
Hallite	18	**5.000**	4.000	0.625	18797
Hallite	18	**5.000**	4.000	0.750	18752
Hallite	655	**5.000**	4.000	0.750	36242
Hallite	513	**5.000**	4.000	0.825	15872
Pacific	PIP	**5.000**	4.250	0.188	39603
Hallite	606	**5.000**	4.250	0.375	19522
Hallite	511	**5.000**	4.250	0.413	43082
Hallite	513	**5.000**	4.250	0.413	18835
Hallite	606	**5.000**	4.250	0.500	16603
Hallite	513	**5.000**	4.250	0.550	18898
Hallite	18	**5.000**	4.250	0.563	18602
Hallite	606	**5.000**	4.250	0.625	16527
Hallite	656	**5.000**	4.250	0.625	36776
Hallite	513	**5.000**	4.250	0.688	18899
Hallite	511	**5.000**	4.375	0.344	18537

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	513	**5.000**	4.375	0.550	18644
Pacific	511	**5.000**	4.375	0.563	18643
Pacific	601	**5.000**	4.375	0.563	18713
Hallite	513	**5.000**	4.375	0.688	18593
Hallite	606	**5.000**	4.500	0.250	19517
Hallite	511	**5.000**	4.500	0.275	43558
Hallite	513	**5.000**	4.500	0.275	18344
Hallite	513	**5.000**	4.500	0.344	19591
Hallite	18	**5.000**	4.500	0.375	18615
Hallite	601	**5.000**	4.500	0.375	18633
Hallite	606	**5.000**	4.500	0.375	18294
Hallite	513	**5.000**	4.500	0.413	18556
Hallite	513	**5.000**	4.500	0.413	19592
Hallite	606	**5.000**	4.500	0.563	34716
Hallite	513	**5.000**	4.500	0.619	18557
Hallite	511	**5.000**	4.625	0.207	18174
Hallite	513	**5.000**	4.625	0.275	19589
Hallite	513	**5.000**	4.625	0.344	19590
Hallite	513	**5.000**	4.625	0.413	18645
Hallite	18	**5.063**	4.563	0.375	18515
Pacific	513	**5.125**	3.875	0.625	38020
Pacific	511	**5.125**	4.125	0.500	37988
Pacific	511	**5.125**	4.375	0.375	19197
Pacific	511	**5.125**	4.375	0.625	19182
Pacific	513	**5.125**	4.375	0.625	47063
Hallite	18	**5.125**	4.480	0.410	18864
Hallite	511	**5.125**	4.500	0.344	18576
Hallite	513	**5.125**	4.500	0.413	19595
Hallite	513	**5.125**	4.500	0.688	18677
Hallite	511	**5.125**	4.625	0.275	43559

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	513	**5.125**	4.625	0.275	18550
Pacific	513	**5.125**	4.625	0.563	16265
Hallite	513	**5.125**	4.750	0.413	19593
Hallite	513	**5.125**	4.875	0.275	19594
Pacific	513	**5.250**	3.750	0.750	38027
Pacific	513	**5.250**	4.000	0.625	16382
Pacific	513	**5.250**	4.125	0.563	38011
Hallite	511	**5.250**	4.250	0.550	16350
Hallite	18	**5.250**	4.250	0.750	18843
Hallite	513	**5.250**	4.250	0.825	19143
Hallite	511	**5.250**	4.500	0.413	18867
Hallite	18	**5.250**	4.500	0.469	18681
Hallite	606	**5.250**	4.500	0.500	16601
Hallite	513	**5.250**	4.500	0.550	18928
Hallite	513	**5.250**	4.500	0.688	18927
Pacific	601	**5.250**	4.625	0.563	18185
Pacific	601	**5.250**	4.625	0.563	18996
Hallite	511	**5.250**	4.750	0.275	18532
Hallite	513	**5.250**	4.750	0.413	16266
Hallite	513	**5.250**	4.750	0.550	19597
Hallite	513	**5.250**	4.750	0.619	18640
Pacific	513	**5.250**	5.000	0.125	37883
Pacific	513	**5.313**	4.313	0.500	37989
Pacific	513	**5.375**	4.375	0.500	37990
Pacific	513	**5.375**	4.375	0.750	16351
Pacific	511	**5.375**	4.500	0.438	19133
Hallite	18	**5.375**	4.500	0.688	16624
Pacific	513	**5.375**	4.500	0.750	16347
Pacific	513	**5.375**	4.625	0.375	16322
Pacific	511	**5.375**	4.625	0.625	19267

PISTON SEALS - SINGLE ACTING

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	511	**5.375**	4.750	0.344	18607
Hallite	513	**5.375**	4.750	0.550	18545
Hallite	513	**5.375**	4.750	0.688	19175
Hallite	511	**5.375**	4.875	0.275	18765
Hallite	513	**5.375**	4.875	0.413	35711
Pacific	513	**5.375**	4.875	0.563	16267
Hallite	513	**5.375**	5.000	0.413	19598
Pacific	513	**5.500**	4.000	0.750	38028
Hallite	511	**5.500**	4.250	0.688	16383
Hallite	511	**5.500**	4.500	0.550	35270
Hallite	18	**5.500**	4.500	0.750	18955
Hallite	513	**5.500**	4.500	0.825	15873
Pacific	PIP	**5.500**	4.750	0.188	40285
Hallite	601	**5.500**	4.750	0.360	18794
Hallite	511	**5.500**	4.750	0.413	18906
Hallite	513	**5.500**	4.750	0.550	16541
Hallite	18	**5.500**	4.750	0.625	18813
Hallite	606	**5.500**	4.750	0.625	19014
Hallite	656	**5.500**	4.750	0.625	36777
Hallite	513	**5.500**	4.750	0.688	18973
Pacific	513	**5.500**	4.875	0.313	16297
Hallite	511	**5.500**	5.000	0.275	18438
Hallite	513	**5.500**	5.000	0.413	18722
Hallite	513	**5.500**	5.000	0.550	19600
Hallite	513	**5.500**	5.000	0.619	18721
Pacific	513	**5.563**	5.000	0.281	16290
Pacific	511	**5.625**	4.750	0.625	37820
Pacific	513	**5.625**	4.875	0.375	37937
Pacific	513	**5.625**	4.875	0.625	16323
Hallite	511	**5.625**	5.000	0.344	18691

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	513	**5.625**	5.000	0.688	16298
Pacific	513	**5.625**	5.125	0.250	37905
Pacific	513	**5.625**	5.250	0.188	37897
Pacific	513	**5.750**	4.250	0.750	38029
Pacific	513	**5.750**	4.500	0.625	16384
Pacific	513	**5.750**	4.750	0.500	19144
Pacific	513	**5.750**	4.750	0.688	19187
Hallite	511	**5.750**	5.000	0.413	18931
Hallite	601	**5.750**	5.000	0.482	19157
Hallite	513	**5.750**	5.000	0.550	19000
Pacific	FR	**5.750**	5.000	0.563	38192
Hallite	513	**5.750**	5.000	0.688	18999
Pacific	511	**5.750**	5.125	0.313	16299
Pacific	513	**5.750**	5.125	0.563	19148
Pacific	511	**5.750**	5.125	0.625	37809
Hallite	511	**5.750**	5.250	0.275	19602
Pacific	513	**5.750**	5.250	0.375	37787
Hallite	513	**5.750**	5.250	0.619	16269
Pacific	513	**5.875**	4.875	0.563	37842
Hallite	18	**5.875**	4.875	0.750	18948
Pacific	513	**5.875**	5.125	0.375	15635
Hallite	513	**5.875**	5.250	0.688	19233
Pacific	513	**5.875**	5.375	0.250	18978
Pacific	513	**5.875**	5.375	0.375	37788
Pacific	513	**6.000**	4.000	1.000	38072
Pacific	513	**6.000**	4.500	0.750	38030
Pacific	513	**6.000**	4.750	1.000	37850
Hallite	511	**6.000**	5.000	0.550	19213
Hallite	18	**6.000**	5.000	0.750	18891
Hallite	511	**6.000**	5.000	0.750	15874

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	511	**6.000**	5.125	0.438	19092
Pacific	513	**6.000**	5.125	0.500	37821
Hallite	606	**6.000**	5.250	0.375	19523
Hallite	511	**6.000**	5.250	0.413	18979
Hallite	606	**6.000**	5.250	0.500	16600
Hallite	513	**6.000**	5.250	0.550	19601
Hallite	18	**6.000**	5.250	0.563	19141
Hallite	606	**6.000**	5.250	0.625	19052
Hallite	656	**6.000**	5.250	0.625	36778
Hallite	513	**6.000**	5.250	0.688	19020
Hallite	513	**6.000**	5.250	0.825	16549
Hallite	511	**6.000**	5.375	0.344	18750
Pacific	601	**6.000**	5.375	0.563	18511
Hallite	513	**6.000**	5.375	0.688	18982
Hallite	606	**6.000**	5.500	0.250	19518
Hallite	511	**6.000**	5.500	0.275	18642
Hallite	606	**6.000**	5.500	0.375	18420
Hallite	513	**6.000**	5.500	0.413	18856
Hallite	606	**6.000**	5.500	0.563	18632
Hallite	513	**6.000**	5.500	0.619	18855
Pacific	513	**6.000**	5.750	0.125	37884
Hallite	18	**6.063**	5.063	0.875	19139
Hallite	511	**6.125**	5.125	0.550	16538
Pacific	513	**6.125**	5.125	0.750	37843
Pacific	511	**6.125**	5.375	0.375	19057
Hallite	18	**6.125**	5.375	0.500	19161
Pacific	513	**6.125**	5.375	0.625	19603
Hallite	511	**6.125**	5.500	0.344	16301
Pacific	513	**6.125**	5.500	0.625	37810
Pacific	511	**6.125**	5.625	0.250	18997

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	513	**6.125**	5.625	0.619	40052
Pacific	513	**6.250**	4.250	1.000	38073
Pacific	511	**6.250**	5.000	0.625	16387
Hallite	511	**6.250**	5.250	0.550	16354
Hallite	513	**6.250**	5.250	0.825	15875
Hallite	601	**6.250**	5.500	0.375	19035
Hallite	513	**6.250**	5.500	0.550	19606
Pacific	513	**6.250**	5.500	0.563	19045
Hallite	18	**6.250**	5.500	0.688	19011
Hallite	513	**6.250**	5.500	0.688	19019
Hallite	511	**6.250**	5.750	0.275	16270
Hallite	513	**6.250**	5.750	0.413	19607
Hallite	606	**6.250**	5.750	0.563	16816
Hallite	513	**6.250**	5.750	0.619	18888
Pacific	513	**6.250**	5.875	0.188	37898
Hallite	513	**6.375**	5.375	0.550	19605
Pacific	513	**6.375**	5.500	0.438	37994
Pacific	513	**6.375**	5.750	0.625	16302
Pacific	513	**6.375**	5.875	0.563	37789
Pacific	513	**6.375**	6.000	0.188	37899
Pacific	513	**6.375**	6.000	0.375	37785
Pacific	513	**6.438**	5.438	0.500	37991
Pacific	513	**6.500**	5.000	0.750	38031
Pacific	513	**6.500**	5.500	0.500	16355
Hallite	18	**6.500**	5.500	0.750	19140
Pacific	513	**6.500**	5.500	0.750	15876
Hallite	601	**6.500**	5.750	0.375	19153
Hallite	513	**6.500**	5.750	0.550	19609
Hallite	606	**6.500**	5.750	0.625	15638
Hallite	656	**6.500**	5.750	0.625	36779

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	513	**6.500**	5.750	0.688	19076
Hallite	511	**6.500**	5.875	0.313	18822
Hallite	511	**6.500**	6.000	0.275	18656
Hallite	513	**6.500**	6.000	0.413	16271
Pacific	513	**6.500**	6.000	0.438	38104
Hallite	513	**6.500**	6.000	0.550	19612
Hallite	513	**6.500**	6.000	0.619	19062
Pacific	513	**6.625**	5.500	0.563	38034
Pacific	513	**6.625**	5.875	0.625	16324
Hallite	513	**6.625**	6.000	0.688	16304
Pacific	513	**6.750**	5.000	1.000	37863
Pacific	513	**6.750**	5.125	0.500	19280
Pacific	513	**6.750**	5.250	0.750	38032
Pacific	513	**6.750**	5.500	0.625	38021
Pacific	513	**6.750**	5.500	1.000	15686
Pacific	513	**6.750**	5.750	0.500	16356
Hallite	18	**6.750**	5.750	0.750	19281
Pacific	513	**6.750**	5.750	0.750	19224
Hallite	511	**6.750**	6.000	0.413	16536
Hallite	513	**6.750**	6.000	0.550	19610
Hallite	513	**6.750**	6.000	0.688	15867
Pacific	513	**6.750**	6.125	0.313	37927
Hallite	511	**6.750**	6.250	0.275	16272
Pacific	511	**6.750**	6.250	0.563	16274
Hallite	513	**6.750**	6.250	0.619	43526
Hallite	18	**6.875**	5.980	0.560	19165
Pacific	513	**7.000**	5.500	0.750	38033
Pacific	513	**7.000**	5.500	1.250	37854
Pacific	511	**7.000**	5.750	0.625	19155
Hallite	511	**7.000**	6.000	0.550	19191

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	659	**7.000**	6.000	0.731	36755
Hallite	18	**7.000**	6.000	0.750	19160
Hallite	513	**7.000**	6.000	0.825	15877
Pacific	PIP	**7.000**	6.250	0.188	40286
Hallite	606	**7.000**	6.250	0.375	19525
Hallite	511	**7.000**	6.250	0.413	19316
Hallite	513	**7.000**	6.250	0.500	16542
Hallite	606	**7.000**	6.250	0.500	16599
Hallite	513	**7.000**	6.250	0.625	19097
Hallite	606	**7.000**	6.250	0.625	18974
Hallite	511	**7.000**	6.375	0.344	16305
Pacific	601	**7.000**	6.375	0.563	18430
Hallite	513	**7.000**	6.375	0.688	19129
Hallite	606	**7.000**	6.500	0.250	19519
Hallite	511	**7.000**	6.500	0.275	18711
Hallite	606	**7.000**	6.500	0.375	16598
Hallite	513	**7.000**	6.500	0.413	16543
Hallite	513	**7.000**	6.500	0.550	19613
Hallite	513	**7.000**	6.500	0.619	16275
Hallite	511	**7.125**	6.500	0.344	19007
Hallite	513	**7.125**	6.500	0.688	19108
Pacific	513	**7.125**	6.625	0.375	37790
Pacific	513	**7.250**	6.000	0.625	16388
Hallite	18	**7.250**	6.000	1.000	19235
Pacific	513	**7.250**	6.000	1.000	38085
Hallite	511	**7.250**	6.250	0.550	19293
Hallite	513	**7.250**	6.250	0.825	16357
Hallite	513	**7.250**	6.500	0.550	16325
Hallite	18	**7.250**	6.500	0.688	19201
Hallite	513	**7.250**	6.500	0.688	16326

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	513	**7.250**	6.625	0.313	37928
Hallite	511	**7.250**	6.750	0.275	19053
Hallite	513	**7.250**	6.750	0.413	19614
Hallite	513	**7.250**	6.750	0.550	19615
Hallite	513	**7.250**	6.750	0.619	16276
Hallite	513	**7.375**	6.750	0.688	19616
Pacific	513	**7.500**	6.000	0.750	19312
Pacific	513	**7.500**	6.250	0.625	16389
Hallite	18	**7.500**	6.250	1.000	19284
Hallite	511	**7.500**	6.500	0.550	16358
Pacific	513	**7.500**	6.500	0.750	19301
Hallite	511	**7.500**	6.750	0.413	19279
Hallite	18	**7.500**	6.750	0.438	19162
Hallite	513	**7.500**	6.750	0.550	16550
Hallite	513	**7.500**	6.750	0.688	16327
Hallite	511	**7.500**	7.000	0.275	16277
Hallite	513	**7.500**	7.000	0.413	16544
Hallite	513	**7.500**	7.000	0.550	19617
Hallite	513	**7.500**	7.000	0.619	16278
Pacific	513	**7.625**	6.750	0.750	37822
Hallite	513	**7.625**	7.000	0.688	16548
Pacific	513	**7.625**	7.125	0.250	37906
Pacific	513	**7.750**	6.250	1.250	37855
Hallite	511	**7.750**	6.500	0.688	35267
Hallite	18	**7.750**	6.500	1.000	19317
Pacific	513	**7.750**	6.500	1.000	38086
Pacific	513	**7.750**	6.750	0.500	37992
Hallite	18	**7.750**	6.750	1.000	16630
Hallite	511	**7.750**	7.000	0.413	16328
Hallite	513	**7.750**	7.000	0.550	16329

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	513	**7.750**	7.000	0.688	16330
Hallite	513	**7.750**	7.250	0.275	19618
Hallite	513	**7.750**	7.250	0.619	19619
Pacific	513	**7.875**	6.625	0.625	38022
Pacific	513	**7.875**	6.750	0.563	38035
Pacific	513	**7.875**	7.500	0.250	37786
Pacific	513	**8.000**	6.000	1.000	38074
Pacific	513	**8.000**	6.500	0.750	38046
Pacific	513	**8.000**	6.500	1.250	37856
Hallite	18	**8.000**	6.750	1.000	19310
Pacific	513	**8.000**	6.750	1.000	38087
Hallite	601	**8.000**	7.000	0.500	19244
Hallite	511	**8.000**	7.000	0.550	19212
Hallite	18	**8.000**	7.000	0.688	19300
Hallite	513	**8.000**	7.000	0.825	19335
Hallite	18	**8.000**	7.000	0.875	19231
Hallite	511	**8.000**	7.250	0.413	16331
Hallite	513	**8.000**	7.250	0.550	16332
Hallite	606	**8.000**	7.250	0.625	19050
Hallite	513	**8.000**	7.250	0.688	19223
Hallite	513	**8.000**	7.250	0.825	16551
Hallite	513	**8.000**	7.375	0.688	16540
Hallite	606	**8.000**	7.500	0.250	19520
Hallite	511	**8.000**	7.500	0.275	18836
Hallite	513	**8.000**	7.500	0.413	16545
Hallite	513	**8.000**	7.500	0.619	16279
Pacific	513	**8.063**	6.813	0.625	38036
Pacific	513	**8.125**	6.875	0.625	38037
Hallite	511	**8.125**	7.500	0.344	19085
Pacific	513	**8.125**	7.500	0.625	37811

PISTON SEALS - SINGLE ACTING

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	513	**8.250**	7.000	0.625	16390
Hallite	18	**8.250**	7.000	1.000	19313
Pacific	513	**8.250**	7.000	1.000	19395
Hallite	513	**8.250**	7.250	0.825	16360
Hallite	513	**8.250**	7.500	0.550	16333
Hallite	513	**8.250**	7.500	0.688	19208
Pacific	513	**8.250**	7.625	0.500	37812
Pacific	513	**8.250**	7.750	0.250	37913
Pacific	513	**8.250**	7.750	0.563	37791
Hallite	511	**8.375**	7.750	0.344	19625
Pacific	513	**8.500**	7.000	0.750	38047
Pacific	513	**8.500**	7.000	1.250	37857
Pacific	513	**8.500**	7.250	1.000	38088
Hallite	511	**8.500**	7.500	0.550	19230
Hallite	513	**8.500**	7.500	0.750	35274
Hallite	513	**8.500**	7.750	0.550	16335
Hallite	513	**8.500**	7.750	0.688	15868
Hallite	511	**8.500**	8.000	0.275	43560
Hallite	513	**8.500**	8.000	0.563	19146
Pacific	513	**8.500**	8.000	0.625	19239
Pacific	513	**8.625**	7.125	0.750	38045
Hallite	511	**8.625**	8.000	0.344	16535
Pacific	513	**8.625**	8.125	0.563	16281
Hallite	18	**8.750**	7.500	1.000	19294
Pacific	513	**8.750**	7.500	1.000	38089
Pacific	513	**8.750**	7.750	0.500	16361
Hallite	513	**8.750**	7.750	0.825	35275
Hallite	513	**8.750**	8.000	0.688	15869
Hallite	511	**8.750**	8.250	0.275	19623
Hallite	511	**8.875**	8.250	0.344	19622

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	513	**9.000**	7.000	1.000	38075
Pacific	513	**9.000**	7.500	0.750	38048
Pacific	513	**9.000**	7.500	1.250	37858
Pacific	513	**9.000**	7.750	0.625	15674
Hallite	18	**9.000**	7.750	1.000	19355
Pacific	513	**9.000**	7.750	1.000	38090
Pacific	PIP	**9.000**	8.000	0.313	40287
Hallite	511	**9.000**	8.000	0.550	19256
Hallite	18	**9.000**	8.000	0.750	19354
Hallite	606	**9.000**	8.000	0.750	19302
Hallite	513	**9.000**	8.000	0.825	15878
Hallite	513	**9.000**	8.250	0.500	35276
Hallite	513	**9.000**	8.250	0.688	16337
Pacific	513	**9.000**	8.375	0.625	37813
Hallite	513	**9.000**	8.500	0.413	16546
Hallite	513	**9.000**	8.500	0.619	16283
Hallite	18	**9.125**	8.375	0.563	34524
Pacific	513	**9.250**	8.000	0.625	15675
Hallite	18	**9.250**	8.000	1.000	19361
Hallite	18	**9.250**	8.000	1.375	19369
Pacific	513	**9.250**	8.250	0.500	37995
Pacific	513	**9.250**	8.250	0.750	37844
Pacific	513	**9.250**	8.500	0.375	16338
Pacific	513	**9.250**	8.500	0.625	16339
Pacific	513	**9.375**	8.625	0.375	37938
Pacific	513	**9.438**	8.188	0.625	38038
Pacific	513	**9.500**	7.500	1.000	38076
Pacific	513	**9.500**	7.750	0.875	38066
Pacific	513	**9.500**	8.000	0.750	38049
Hallite	18	**9.500**	8.000	1.000	19367

PISTON SEALS - SINGLE ACTING

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	513	**9.500**	8.250	0.625	15676
Hallite	18	**9.500**	8.250	1.000	19370
Pacific	513	**9.500**	8.250	1.000	38091
Pacific	513	**9.500**	8.500	0.500	16362
Pacific	513	**9.500**	8.500	0.750	16363
Pacific	513	**9.500**	8.750	0.625	37816
Pacific	513	**9.500**	8.875	0.313	37929
Pacific	513	**9.500**	9.000	0.250	16284
Pacific	513	**9.500**	9.000	0.375	37792
Pacific	513	**9.625**	8.375	0.625	38039
Pacific	513	**9.625**	9.000	0.500	37814
Pacific	513	**9.750**	8.250	0.750	38050
Pacific	513	**9.750**	8.500	0.625	38105
Hallite	18	**9.750**	8.500	1.000	19373
Pacific	511	**9.750**	8.750	0.500	37996
Pacific	513	**9.750**	8.750	0.750	19382
Pacific	511	**9.750**	9.000	0.625	47064
Pacific	513	**9.750**	9.000	0.625	19381
Pacific	513	**9.750**	9.250	0.250	37914
Pacific	513	**9.875**	8.375	0.750	38051
Pacific	513	**9.875**	8.625	0.625	38040
Pacific	513	**9.875**	8.875	0.750	37845
Pacific	513	**9.875**	9.250	0.625	16311
Pacific	511	**10.000**	8.000	1.000	38077
Pacific	513	**10.000**	8.500	0.750	38052
Pacific	513	**10.000**	8.500	1.250	37859
Pacific	513	**10.000**	8.750	0.625	38106
Hallite	18	**10.000**	8.750	1.000	19384
Pacific	513	**10.000**	8.750	1.000	38092
Pacific	PIP	**10.000**	9.000	0.313	38255

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	511	**10.000**	9.000	0.500	19360
Hallite	606	**10.000**	9.000	0.750	34717
Pacific	513	**10.000**	9.000	0.750	16364
Hallite	606	**10.000**	9.250	0.375	35906
Pacific	511	**10.000**	9.250	0.375	19169
Pacific	511	**10.000**	9.250	0.625	15646
Pacific	513	**10.000**	9.500	0.250	16285
Pacific	513	**10.000**	9.500	0.563	37793
Pacific	513	**10.250**	8.500	0.875	38067
Pacific	513	**10.250**	9.000	0.625	16392
Hallite	18	**10.250**	9.000	1.000	19386
Pacific	513	**10.250**	9.000	1.000	38093
Pacific	513	**10.250**	9.250	0.750	16365
Pacific	513	**10.250**	9.500	0.375	37947
Pacific	513	**10.250**	9.500	0.625	16340
Pacific	513	**10.250**	9.625	0.313	37930
Pacific	513	**10.250**	9.750	0.250	37915
Pacific	513	**10.250**	9.750	0.563	16286
Pacific	513	**10.375**	9.625	0.625	37817
Pacific	513	**10.500**	9.000	0.750	38053
Pacific	513	**10.500**	9.000	1.250	37860
Hallite	18	**10.500**	9.250	1.000	19391
Pacific	513	**10.500**	9.500	0.500	16366
Pacific	513	**10.500**	9.500	0.750	16367
Hallite	18	**10.500**	9.500	1.000	19328
Pacific	513	**10.500**	9.750	0.375	37948
Pacific	513	**10.500**	9.750	0.625	19372
Pacific	513	**10.500**	9.750	0.625	47061
Pacific	511	**10.500**	10.000	0.250	19262
Pacific	513	**10.625**	9.875	0.375	37949

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	513	**10.750**	9.375	1.000	37867
Hallite	18	**10.750**	9.500	1.000	19396
Pacific	513	**10.750**	9.750	0.500	37997
Pacific	513	**10.750**	10.000	0.375	37950
Pacific	513	**10.750**	10.000	0.625	16341
Pacific	513	**10.750**	10.125	0.313	37931
Pacific	513	**11.000**	9.500	0.750	38060
Hallite	18	**11.000**	9.750	1.000	19401
Pacific	513	**11.000**	9.750	1.000	38094
Pacific	513	**11.000**	10.000	0.500	37998
Pacific	513	**11.000**	10.000	0.750	19402
Pacific	513	**11.000**	10.250	0.625	37833
Pacific	513	**11.000**	10.500	0.250	37916
Pacific	513	**11.250**	10.000	0.625	38041
Hallite	18	**11.250**	10.000	1.000	19406
Pacific	513	**11.250**	10.000	1.000	16394
Pacific	513	**11.250**	10.500	0.375	37951
Pacific	513	**11.250**	10.750	0.250	37917
Pacific	513	**11.375**	10.875	0.250	37918
Pacific	513	**11.500**	9.750	0.875	38068
Pacific	513	**11.500**	10.000	0.750	19440
Hallite	18	**11.500**	10.000	1.313	19409
Pacific	513	**11.500**	10.250	0.625	38042
Hallite	18	**11.500**	10.250	1.000	19410
Pacific	513	**11.500**	10.500	0.500	37999
Pacific	513	**11.500**	10.500	0.750	37823
Pacific	513	**11.500**	10.750	0.625	37834
Pacific	513	**11.500**	11.000	0.250	16287
Pacific	513	**11.625**	10.625	0.750	37824
Pacific	513	**11.750**	10.000	0.875	38069

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	18	**11.750**	10.500	1.000	19414
Pacific	513	**11.750**	10.500	1.000	38095
Pacific	513	**11.750**	10.750	0.750	37825
Pacific	513	**11.750**	11.000	0.375	37952
Pacific	513	**11.750**	11.250	0.250	37919
Pacific	513	**12.000**	10.000	1.000	38078
Pacific	513	**12.000**	10.500	0.750	38061
Hallite	18	**12.000**	10.750	1.000	19418
Pacific	513	**12.000**	11.000	0.500	16369
Hallite	18	**12.000**	11.000	0.750	19419
Pacific	513	**12.000**	11.000	0.750	19449
Pacific	513	**12.000**	11.250	0.375	19291
Pacific	513	**12.000**	11.250	0.625	16342
Pacific	513	**12.000**	11.500	0.250	16288
Pacific	513	**12.250**	10.000	1.125	38083
Pacific	513	**12.250**	10.750	0.750	38062
Pacific	513	**12.250**	11.000	0.625	38044
Hallite	18	**12.250**	11.000	1.000	19426
Pacific	513	**12.250**	11.000	1.000	38096
Pacific	513	**12.250**	11.250	0.500	38001
Pacific	513	**12.250**	11.500	0.625	19425
Pacific	513	**12.500**	11.000	0.750	38063
Pacific	513	**12.500**	11.000	1.250	37861
Hallite	18	**12.500**	11.250	1.000	19428
Pacific	513	**12.500**	11.250	1.000	38097
Pacific	513	**12.500**	11.500	0.500	38002
Pacific	513	**12.500**	11.500	0.750	16370
Pacific	513	**12.500**	11.750	0.375	37954
Pacific	513	**12.625**	12.000	0.313	37932
Pacific	513	**12.750**	11.500	1.000	38098

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	513	**12.750**	11.750	0.500	38003
Pacific	513	**12.750**	12.000	0.375	37955
Pacific	513	**12.750**	12.000	0.625	19490
Hallite	18	**13.000**	11.750	1.000	19436
Pacific	513	**13.000**	11.750	1.000	38099
Pacific	513	**13.000**	12.000	0.500	16371
Pacific	513	**13.000**	12.000	0.750	16373
Pacific	513	**13.000**	12.250	0.375	37956
Pacific	513	**13.000**	12.250	0.625	16343
Pacific	513	**13.250**	12.000	0.625	38054
Hallite	18	**13.250**	12.000	1.000	19442
Pacific	513	**13.250**	12.000	1.000	38100
Hallite	18	**13.250**	12.000	1.313	19441
Pacific	513	**13.250**	12.500	0.375	37957
Pacific	513	**13.250**	12.500	0.625	37835
Pacific	513	**13.375**	12.750	0.313	37933
Pacific	513	**13.500**	12.000	0.750	16395
Hallite	18	**13.500**	12.000	1.125	19444
Pacific	513	**13.500**	12.250	0.625	38055
Pacific	513	**13.500**	12.500	0.750	37826
Pacific	513	**13.500**	12.750	0.375	37958
Pacific	513	**13.500**	13.000	0.563	37794
Pacific	513	**13.750**	12.500	1.000	37866
Pacific	513	**13.750**	12.750	0.500	38004
Pacific	513	**13.750**	13.000	0.375	16344
Pacific	513	**14.000**	12.000	1.000	38079
Hallite	18	**14.000**	12.000	1.250	19446
Pacific	513	**14.000**	12.500	0.750	16396
Pacific	513	**14.000**	12.750	0.625	38056
Hallite	18	**14.000**	12.750	1.000	19448

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	513	**14.000**	12.750	1.000	38101
Pacific	513	**14.000**	13.000	0.750	16374
Pacific	513	**14.000**	13.250	0.375	16345
Pacific	513	**14.000**	13.375	0.313	37934
Pacific	513	**14.250**	12.000	1.125	38084
Pacific	513	**14.250**	13.000	0.625	38057
Hallite	18	**14.250**	13.000	1.000	19452
Pacific	513	**14.250**	13.250	0.500	38006
Pacific	513	**14.250**	13.250	0.750	37827
Pacific	513	**14.500**	12.500	1.000	38080
Pacific	513	**14.500**	13.000	0.750	38064
Pacific	513	**14.500**	13.500	0.750	19417
Pacific	513	**14.500**	13.750	0.375	37960
Pacific	513	**14.500**	14.000	0.375	37795
Pacific	513	**14.750**	13.000	1.375	37864
Pacific	513	**14.750**	14.000	0.375	37961
Pacific	513	**15.000**	13.000	1.000	38081
Hallite	18	**15.000**	13.938	0.813	19457
Pacific	513	**15.000**	14.000	0.750	37828
Pacific	513	**15.000**	14.500	0.375	37796
Hallite	18	**15.250**	14.000	1.208	19461
Pacific	513	**15.250**	14.500	0.375	37962
Pacific	513	**15.500**	14.000	0.750	16398
Hallite	18	**15.500**	14.000	1.500	19463
Pacific	513	**15.500**	14.500	0.500	38007
Pacific	513	**15.500**	14.750	0.375	37963
Pacific	513	**15.500**	14.750	0.625	37818
Pacific	513	**15.750**	14.000	1.500	37865
Pacific	513	**15.750**	14.250	0.750	38065
Pacific	513	**15.750**	14.750	0.500	38008

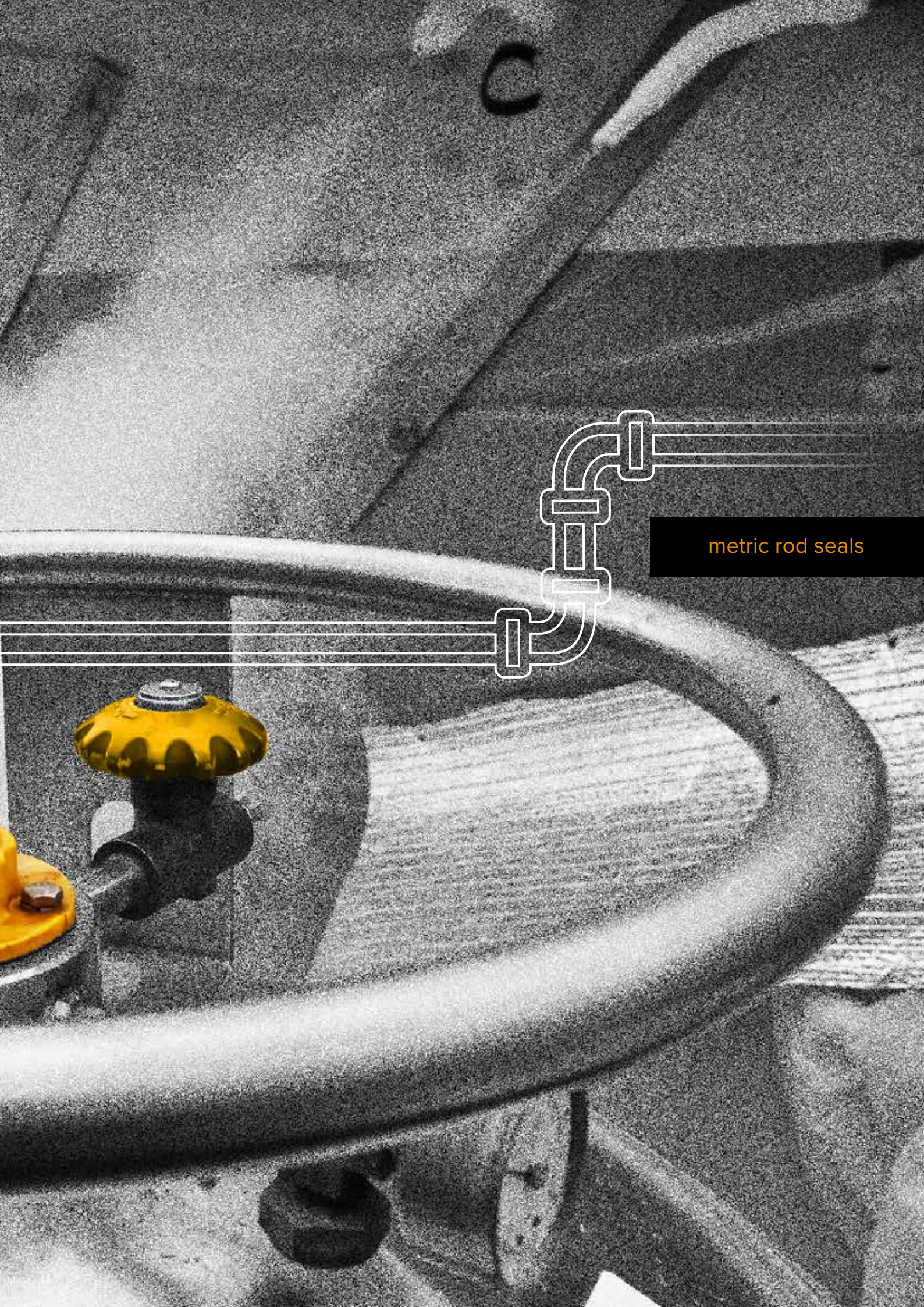
BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	513	**15.750**	15.000	0.375	37964
Pacific	513	**16.000**	14.000	1.000	38082
Pacific	513	**16.000**	14.500	0.750	15697
Hallite	18	**16.000**	14.500	1.500	19467
Pacific	513	**16.000**	14.750	0.625	38058
Pacific	513	**16.000**	15.000	0.500	19460
Pacific	513	**16.000**	15.000	0.750	37829
Pacific	513	**16.000**	15.250	0.625	37819
Pacific	513	**16.000**	15.375	0.625	37815
Pacific	513	**16.250**	15.500	0.375	37965
Pacific	513	**16.250**	15.750	0.563	37797
Pacific	513	**16.500**	15.000	1.250	37862
Hallite	18	**16.500**	15.000	1.375	19472
Pacific	513	**16.500**	15.750	0.375	37966
Pacific	513	**16.500**	16.000	0.375	37798
Pacific	513	**16.750**	16.000	0.375	37967
Hallite	18	**17.000**	15.000	1.500	19474
Pacific	513	**17.000**	16.000	0.750	16376
Hallite	18	**17.250**	15.250	1.750	19475
Hallite	18	**17.750**	17.000	0.625	19478
Hallite	18	**18.000**	16.000	1.500	19477
Hallite	18	**18.000**	16.500	1.125	19481
Pacific	513	**18.000**	17.000	0.500	16377
Hallite	18	**19.000**	17.000	1.250	19484
Hallite	18	**19.250**	18.000	1.250	19487
Hallite	18	**20.750**	19.000	1.313	19494
Hallite	18	**21.500**	20.000	1.750	19506
Hallite	18	**21.750**	20.500	1.250	19498
Hallite	18	**24.000**	22.500	1.125	19501
Hallite	18	**26.000**	24.000	1.500	19504

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	18	**31.500**	30.000	1.125	19510
Hallite	18	**39.501**	38.000	1.125	19511

NOTES

pacific
seals



metric rod seals

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	16	8.90	**4.00**	2.20	33389
Pacific	601	10.00	**4.00**	4.00	17167
Hallite	601	12.50	**4.50**	4.40	17079
Pacific	16	9.90	**5.00**	2.20	33390
Hallite	601	12.00	**5.00**	5.50	17080
Pacific	16	10.90	**6.00**	2.20	33391
Pacific	601	12.00	**6.00**	4.00	16906
Pacific	601	12.00	**6.00**	6.00	17850
Hallite	601	13.00	**6.00**	8.00	17166
Pacific	605	14.00	**6.00**	5.70	34393
Hallite	18	14.00	**6.00**	6.00	17026
Pacific	601	14.00	**6.00**	9.00	16907
Pacific	601	15.00	**6.00**	8.00	17633
Hallite	605	16.00	**6.00**	7.00	36572
Pacific	513	16.00	**6.50**	8.00	38125
Pacific	16	11.90	**7.00**	2.20	33392
Pacific	601	17.10	**7.10**	8.00	17025
Hallite	416	8.81	**8.00**	0.32	40019
Pacific	513	14.00	**8.00**	3.00	34798
Pacific	601	14.00	**8.00**	6.00	17636
Pacific	16	15.30	**8.00**	3.20	33393
Hallite	610	16.00	**8.00**	5.30	35897
Hallite	18	16.00	**8.00**	6.00	17606
Pacific	601	16.00	**8.00**	6.00	17650
Hallite	605	18.00	**8.00**	7.00	17104
Pacific	513	19.00	**8.00**	5.50	38128
Pacific	601	19.00	**9.00**	8.00	17103
Pacific	16	14.90	**10.00**	2.20	42170
Hallite	605	15.00	**10.00**	3.60	15795
Pacific	601	16.00	**10.00**	4.00	18219

ROD SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	513	16.00	**10.00**	6.00	17714
Pacific	FR	17.00	**10.00**	6.40	18437
Pacific	16	17.30	**10.00**	3.20	33394
Hallite	18	18.00	**10.00**	6.00	17770
Hallite	601	18.00	**10.00**	6.00	17090
Pacific	601	20.00	**10.00**	5.00	16944
Hallite	601	20.00	**10.00**	8.00	17015
Pacific	601	22.00	**10.00**	6.00	17736
Hallite	18	25.00	**10.00**	13.00	17513
Pacific	601	22.00	**11.00**	8.00	16946
Pacific	513	24.00	**11.00**	9.50	38126
Pacific	513	27.00	**11.00**	8.00	38129
Pacific	601	16.00	**12.00**	8.00	16984
Pacific	16	17.30	**12.00**	2.20	40327
Hallite	605	18.00	**12.00**	4.50	41915
Hallite	605	18.00	**12.00**	5.70	17072
Hallite	601	18.00	**12.00**	6.00	17054
Hallite	605	19.00	**12.00**	4.50	17073
Hallite	605	19.00	**12.00**	5.00	36573
Pacific	FR	19.00	**12.00**	6.40	17665
Hallite	16	19.50	**12.00**	3.20	33395
Hallite	601	20.00	**12.00**	4.40	17091
Hallite	605	20.00	**12.00**	5.70	17074
Hallite	18	20.00	**12.00**	6.00	17810
Pacific	513	20.00	**12.00**	6.40	17715
Pacific	601	20.00	**12.00**	8.00	16945
Hallite	605	22.00	**12.00**	7.70	17075
Pacific	FRI	23.00	**12.00**	7.50	17637
Hallite	601	25.00	**12.00**	8.00	17016
Hallite	18	25.00	**12.00**	10.00	17695

ROD SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	601	20.50	**12.50**	5.00	17631
Pacific	601	22.50	**12.50**	8.00	17548
Hallite	605	18.00	**12.70**	5.50	16995
Hallite	605	20.00	**13.00**	4.50	17076
Pacific	601	20.00	**14.00**	4.50	17624
Hallite	605	21.00	**14.00**	5.00	17588
Hallite	30	21.00	**14.00**	5.60	16532
Hallite	16	21.50	**14.00**	3.20	33396
Hallite	601	22.00	**14.00**	4.40	17092
Hallite	601	22.00	**14.00**	5.00	16909
Hallite	610	22.00	**14.00**	5.30	35898
Hallite	605	22.00	**14.00**	5.70	17077
Pacific	FR	22.00	**14.00**	6.50	17666
Pacific	511	23.00	**14.00**	4.50	37876
Hallite	605	24.00	**14.00**	7.30	17111
Hallite	18	24.00	**14.00**	7.50	17726
Hallite	601	24.00	**14.00**	8.00	17017
Pacific	601	25.00	**14.00**	7.00	16653
Pacific	658	21.00	**15.00**	4.20	29531
Pacific	658	21.00	**15.00**	6.00	18315
Pacific	658	21.00	**15.00**	6.00	18315
Pacific	601	22.00	**15.00**	4.00	47134
Pacific	513	22.00	**15.00**	5.00	17671
Pacific	601	22.00	**15.00**	5.50	47133
Pacific	16	22.30	**15.00**	3.20	33397
Hallite	16	22.50	**15.00**	3.20	47065
Pacific	605	23.00	**15.00**	5.00	38119
Pacific	FR	23.00	**15.00**	6.30	17668
Hallite	18	25.00	**15.00**	7.50	17706
Hallite	601	25.00	**15.00**	7.80	16467

ROD SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	601	25.00	**15.00**	8.00	17040
Pacific	601	25.00	**15.00**	10.00	16965
Pacific	FR	27.00	**15.00**	6.50	17669
Pacific	601	28.00	**15.00**	10.00	17930
Hallite	605	25.50	**15.40**	6.35	17112
Pacific	513	22.00	**16.00**	3.50	34799
Hallite	605	22.00	**16.00**	4.50	17078
Hallite	605	22.00	**16.00**	5.00	17113
Hallite	16	23.50	**16.00**	3.20	33398
Hallite	601	24.00	**16.00**	4.40	17114
Hallite	601	24.00	**16.00**	5.00	16910
Hallite	605	24.00	**16.00**	5.80	17115
Pacific	FR	24.00	**16.00**	6.30	17145
Pacific	FR	24.00	**16.00**	7.50	15421
Pacific	601	25.00	**16.00**	5.50	18508
Pacific	601	25.00	**16.00**	8.00	16966
Hallite	18	26.00	**16.00**	7.50	17638
Hallite	605	26.00	**16.00**	7.70	17116
Hallite	601	26.00	**16.00**	8.00	17041
Pacific	601	25.00	**17.00**	10.00	18548
Hallite	605	24.00	**18.00**	4.50	36576
Hallite	18	24.40	**18.00**	4.80	17642
Hallite	610	25.00	**18.00**	4.60	17635
Hallite	605	25.00	**18.00**	5.00	17117
Pacific	FR	25.00	**18.00**	7.00	17012
Hallite	616	25.50	**18.00**	2.80	17118
Hallite	16	25.50	**18.00**	3.20	33399
Hallite	601	26.00	**18.00**	4.40	17119
Hallite	601	26.00	**18.00**	5.00	16911
Hallite	605	26.00	**18.00**	5.00	35737

ROD SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	605	26.00	**18.00**	5.70	17120
Pacific	FR	26.00	**18.00**	6.00	17667
Pacific	FRI	28.00	**18.00**	6.30	17492
Hallite	601	28.00	**18.00**	7.30	16469
Hallite	18	28.00	**18.00**	7.50	17837
Hallite	605	28.00	**18.00**	7.70	17149
Hallite	601	28.00	**18.00**	8.00	17081
Pacific	513	30.00	**18.00**	6.50	34583
Pacific	601	30.00	**18.00**	10.00	16968
Pacific	601	34.00	**18.00**	8.00	17064
Pacific	513	27.00	**19.00**	4.00	16940
Pacific	513	30.00	**19.00**	5.50	38130
Pacific	513	32.00	**19.00**	9.50	18068
Pacific	513	35.00	**19.00**	8.00	17997
Pacific	513	38.00	**19.00**	9.50	17386
Hallite	605	25.00	**20.00**	3.20	17122
Pacific	605	25.00	**20.00**	5.00	38120
Hallite	610	26.00	**20.00**	4.50	17230
Hallite	605	26.00	**20.00**	5.00	17178
Hallite	605	27.00	**20.00**	6.10	36139
Hallite	616	27.50	**20.00**	2.80	38207
Hallite	601	28.00	**20.00**	4.40	17163
Hallite	601	28.00	**20.00**	5.00	16912
Hallite	605	28.00	**20.00**	5.00	34395
Hallite	605	28.00	**20.00**	5.70	17150
Hallite	610	28.00	**20.00**	6.00	16470
Pacific	FR	28.00	**20.00**	6.00	17591
Hallite	601	28.00	**20.00**	6.50	16440
Pacific	FR	28.00	**20.00**	7.00	15737
Hallite	605	30.00	**20.00**	6.00	17809

ROD SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	18	30.00	**20.00**	7.50	17901
Pacific	FR	30.00	**20.00**	7.50	17027
Hallite	605	30.00	**20.00**	7.70	17179
Hallite	601	30.00	**20.00**	8.00	17082
Pacific	FR	30.00	**20.00**	8.00	18249
Hallite	605	30.00	**20.00**	10.00	17206
Pacific	16	30.70	**20.00**	4.20	33400
Hallite	616	31.00	**20.00**	3.90	17612
Hallite	16	31.00	**20.00**	4.20	47067
Pacific	601	32.00	**20.00**	8.00	17459
Pacific	601	33.00	**20.00**	10.00	17046
Pacific	7	33.00	**20.00**	18.50	15177
Hallite	18	35.00	**20.00**	11.00	17772
Hallite	601	35.00	**20.00**	12.00	17243
Pacific	601	40.00	**20.00**	10.00	17101
Hallite	18	40.00	**20.00**	12.50	17885
Hallite	601	40.00	**20.00**	12.50	35833
Hallite	610	28.00	**22.00**	4.50	17450
Hallite	610	29.00	**22.00**	4.60	17180
Pacific	605	29.00	**22.00**	5.00	34396
Hallite	30	29.00	**22.00**	5.60	16554
Hallite	16	29.50	**22.00**	3.20	34521
Hallite	601	30.00	**22.00**	4.40	17196
Hallite	605	30.00	**22.00**	5.00	42631
Hallite	605	30.00	**22.00**	5.70	17181
Hallite	610	30.00	**22.00**	6.00	17207
Pacific	FR	30.00	**22.00**	6.00	15425
Pacific	FRI	30.00	**22.00**	6.00	17711
Hallite	610	30.00	**22.00**	7.00	16471
Hallite	605	30.00	**22.00**	7.30	17182

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	601	32.00	**22.00**	6.00	17098
Hallite	605	32.00	**22.00**	7.30	17208
Hallite	18	32.00	**22.00**	7.50	17811
Pacific	601	32.00	**22.00**	8.00	16957
Hallite	605	32.00	**22.00**	10.00	17209
Hallite	616	33.00	**22.00**	3.90	17210
Hallite	16	33.00	**22.00**	4.20	33401
Pacific	601	33.00	**22.00**	8.00	34397
Pacific	FR	34.00	**22.00**	9.00	42422
Hallite	513	35.00	**22.00**	6.50	17053
Hallite	601	35.00	**22.00**	10.00	17123
Pacific	601	36.00	**22.00**	9.00	18458
Hallite	18	37.00	**22.00**	11.00	18164
Pacific	513	38.00	**22.00**	8.00	17413
Hallite	601	40.00	**22.00**	10.00	35379
Hallite	601	30.00	**22.40**	5.00	16913
Hallite	605	30.00	**22.40**	5.00	34718
Hallite	601	32.40	**22.40**	8.00	17124
Hallite	16	33.40	**22.40**	4.20	36218
Pacific	601	35.00	**23.00**	6.00	18664
Hallite	18	38.00	**23.00**	11.00	17779
Pacific	601	31.50	**23.50**	5.00	17603
Hallite	601	32.00	**24.00**	6.50	17195
Pacific	601	34.00	**24.00**	5.50	18527
Pacific	611	31.00	**25.00**	5.00	47327
Pacific	601	32.00	**25.00**	6.00	36183
Pacific	FR	32.00	**25.00**	6.00	34802
Pacific	16	32.30	**25.00**	3.20	41730
Hallite	616	32.50	**25.00**	2.80	38208
Hallite	601	33.00	**25.00**	4.40	17197

ROD SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	601	33.00	**25.00**	5.00	16914
Hallite	605	33.00	**25.00**	5.00	16908
Hallite	605	33.00	**25.00**	5.70	17184
Hallite	610	33.00	**25.00**	6.00	16472
Pacific	FR	33.00	**25.00**	6.00	15427
Hallite	605	33.00	**25.00**	6.80	17185
Hallite	610	33.00	**25.00**	8.00	16473
Hallite	605	33.00	**25.00**	10.00	17231
Pacific	610	34.00	**25.00**	6.50	38197
Pacific	601	35.00	**25.00**	5.00	17734
Hallite	605	35.00	**25.00**	7.30	34719
Hallite	605	35.00	**25.00**	7.70	17232
Hallite	601	35.00	**25.00**	8.00	17125
Hallite	601	35.00	**25.00**	10.00	17234
Hallite	616	36.00	**25.00**	3.90	17486
Hallite	16	36.00	**25.00**	4.20	33402
Hallite	605	37.00	**25.00**	10.00	17374
Hallite	7	37.00	**25.00**	19.00	14132
Hallite	601	38.00	**25.00**	8.00	17191
Hallite	601	38.00	**25.00**	10.00	15829
Pacific	FR	38.00	**25.00**	10.00	17097
Hallite	601	40.00	**25.00**	10.00	17235
Hallite	605	40.00	**25.00**	10.00	17236
Hallite	18	40.00	**25.00**	11.00	17814
Hallite	7	40.00	**25.00**	22.50	14133
Pacific	FR	44.00	**25.00**	12.00	17805
Pacific	601	45.00	**25.00**	10.00	35876
Pacific	601	50.00	**25.00**	10.00	17392
Hallite	616	32.90	**25.40**	2.80	34720
Hallite	605	36.00	**26.00**	7.00	16819

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	601	40.00	**26.00**	9.20	35896
Pacific	601	47.00	**26.00**	12.00	18688
Pacific	513	33.00	**27.00**	3.50	16881
Pacific	513	35.00	**27.00**	4.00	38131
Pacific	513	36.00	**27.00**	8.00	18479
Pacific	513	40.00	**27.00**	6.50	16989
Hallite	18	42.00	**27.00**	11.00	18942
Pacific	16	35.30	**28.00**	3.20	35746
Hallite	601	35.50	**28.00**	5.00	16972
Hallite	605	35.50	**28.00**	5.00	34721
Hallite	610	36.00	**28.00**	5.30	17561
Hallite	605	36.00	**28.00**	5.70	17573
Hallite	610	36.00	**28.00**	6.00	17424
Pacific	FR	36.00	**28.00**	6.00	15428
Pacific	FRI	36.00	**28.00**	6.00	17757
Hallite	601	36.00	**28.00**	6.50	17568
Pacific	513	36.00	**28.00**	8.00	17741
Hallite	610	36.00	**28.00**	8.00	17562
Hallite	601	38.00	**28.00**	5.60	17245
Hallite	605	38.00	**28.00**	7.30	17252
Pacific	601	38.00	**28.00**	8.00	17529
Hallite	616	39.00	**28.00**	3.90	17402
Hallite	16	39.00	**28.00**	4.20	33403
Hallite	601	40.00	**28.00**	10.00	17240
Hallite	601	43.00	**28.00**	10.00	17283
Hallite	18	43.00	**28.00**	11.00	17815
Hallite	605	43.00	**28.00**	11.40	17479
Hallite	7	43.00	**28.00**	19.00	14134
Hallite	18	48.00	**28.00**	11.40	18919
Pacific	513	35.00	**29.00**	6.50	16942

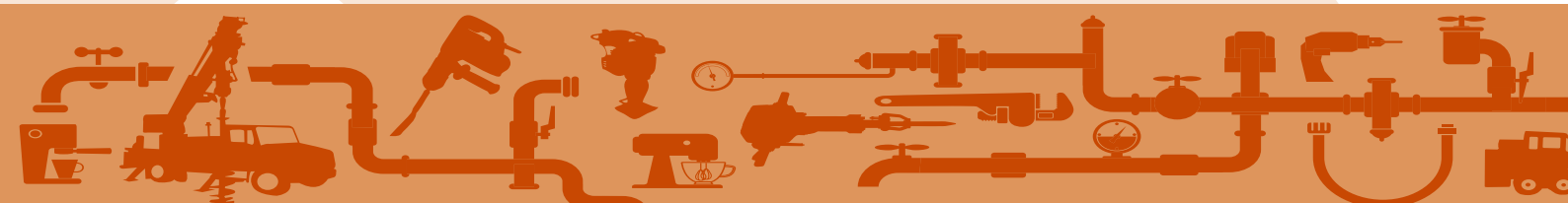
ROD SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	601	37.00	**30.00**	6.00	36565
Hallite	605	38.00	**30.00**	5.70	36366
Hallite	610	38.00	**30.00**	6.00	47060
Pacific	FR	38.00	**30.00**	6.00	17344
Hallite	605	38.00	**30.00**	6.30	17507
Hallite	18	38.00	**30.00**	8.00	18194
Hallite	610	38.00	**30.00**	8.00	17986
Hallite	601	40.00	**30.00**	5.60	17253
Hallite	601	40.00	**30.00**	6.00	17241
Hallite	605	40.00	**30.00**	6.00	16977
Pacific	513	40.00	**30.00**	6.40	17030
Hallite	605	40.00	**30.00**	7.00	36141
Hallite	610	40.00	**30.00**	7.00	35376
Hallite	621	40.00	**30.00**	7.30	35899
Pacific	FRI	40.00	**30.00**	7.50	17461
Hallite	601	40.00	**30.00**	8.00	17102
Hallite	601	40.00	**30.00**	10.00	17271
Hallite	605	40.00	**30.00**	10.00	17263
Hallite	621	40.00	**30.00**	10.00	42745
Hallite	616	41.00	**30.00**	3.90	17743
Hallite	16	41.00	**30.00**	4.20	33404
Hallite	16	41.00	**30.00**	4.20	33404A
Pacific	601	42.00	**30.00**	9.00	18741
Pacific	601	42.00	**30.00**	10.00	17224
Hallite	605	42.00	**30.00**	10.90	17502
Pacific	601	43.00	**30.00**	8.00	18626
Pacific	605	43.00	**30.00**	9.00	47113
Pacific	605	43.00	**30.00**	9.00	47113
Pacific	7	43.00	**30.00**	20.00	15164
Pacific	FRI	45.00	**30.00**	9.00	19065

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	601	45.00	**30.00**	10.00	17403
Hallite	605	45.00	**30.00**	10.00	42632
Hallite	18	45.00	**30.00**	11.00	17776
Hallite	7	45.00	**30.00**	22.50	15111
Hallite	7	45.00	**30.00**	22.50	44001
Pacific	513	46.00	**30.00**	8.00	17539
Pacific	513	46.00	**30.00**	13.00	38134
Hallite	605	50.00	**30.00**	10.00	17353
Pacific	601	50.00	**30.00**	12.00	17393
Hallite	18	50.00	**30.00**	14.00	18270
Hallite	601	41.50	**31.50**	6.00	16973
Pacific	601	46.50	**31.50**	10.00	17547
Pacific	513	38.00	**32.00**	3.30	16936
Pacific	605	38.00	**32.00**	5.00	17176
Hallite	616	39.50	**32.00**	2.80	38206
Hallite	605	40.00	**32.00**	6.00	17254
Hallite	610	40.00	**32.00**	6.00	16476
Pacific	FR	40.00	**32.00**	6.00	17109
Hallite	605	40.00	**32.00**	6.70	17255
Hallite	605	40.00	**32.00**	7.70	17272
Hallite	605	41.50	**32.00**	7.90	17273
Hallite	601	42.00	**32.00**	5.60	17256
Hallite	605	42.00	**32.00**	5.70	17308
Hallite	601	42.00	**32.00**	6.00	16974
Hallite	605	42.00	**32.00**	6.00	34722
Hallite	605	42.00	**32.00**	7.30	17569
Hallite	601	42.00	**32.00**	10.00	17275
Hallite	605	42.00	**32.00**	10.00	17274
Hallite	616	43.00	**32.00**	3.90	17503
Hallite	16	43.00	**32.00**	4.20	33380



ROD SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	511	44.00	**32.00**	6.30	17962
Hallite	631	44.00	**32.00**	8.70	16805
Pacific	601	44.00	**32.00**	9.50	17270
Pacific	FRI	45.00	**32.00**	9.50	18208
Pacific	601	45.00	**32.00**	10.00	15793
Hallite	605	45.00	**32.00**	10.00	36578
Pacific	601	46.00	**32.00**	10.00	17549
Hallite	605	47.00	**32.00**	9.10	17276
Hallite	601	47.00	**32.00**	10.00	36566
Hallite	605	47.00	**32.00**	10.00	17277
Hallite	18	47.00	**32.00**	11.00	17841
Hallite	605	48.00	**32.00**	10.00	34723
Pacific	513	54.00	**32.00**	11.00	38133
Pacific	601	43.00	**33.00**	10.00	17269
Pacific	513	46.00	**33.00**	6.50	17531
Pacific	601	43.50	**34.00**	10.00	18296
Pacific	601	45.00	**34.00**	7.00	17388
Pacific	601	50.00	**34.00**	12.00	18354
Pacific	16	42.30	**35.00**	3.20	47326
Hallite	605	43.00	**35.00**	5.70	36142
Hallite	610	43.00	**35.00**	6.00	17309
Pacific	FR	43.00	**35.00**	6.00	17442
Pacific	FRI	43.00	**35.00**	6.00	38224
Hallite	605	43.00	**35.00**	6.30	17329
Hallite	610	43.00	**35.00**	8.00	36145
Hallite	605	43.00	**35.00**	8.20	17310
Hallite	601	45.00	**35.00**	6.00	16996
Hallite	605	45.00	**35.00**	6.00	34724
Hallite	601	45.00	**35.00**	7.00	18238
Hallite	18	45.00	**35.00**	7.50	17983

ROD SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	605	45.00	**35.00**	7.70	17312
Pacific	FR	45.00	**35.00**	9.00	17333
Hallite	601	45.00	**35.00**	10.00	16846
Hallite	605	45.00	**35.00**	10.00	17313
Hallite	610	45.00	**35.00**	10.00	16477
Hallite	621	45.00	**35.00**	10.00	42746
Hallite	16	46.00	**35.00**	4.20	33381
Hallite	16	46.00	**35.00**	4.20	33381A
Hallite	601	48.00	**35.00**	10.00	17397
Pacific	605	50.00	**35.00**	8.00	18200
Hallite	605	50.00	**35.00**	9.00	18201
Hallite	621	50.00	**35.00**	9.50	16478
Hallite	601	50.00	**35.00**	10.00	17457
Hallite	605	50.00	**35.00**	10.00	17314
Hallite	18	50.00	**35.00**	11.00	17839
Hallite	7	50.00	**35.00**	22.50	15109
Hallite	7	50.00	**35.00**	22.50	44003
Hallite	513	51.00	**35.00**	8.00	17301
Pacific	513	54.00	**35.00**	9.50	17585
Pacific	513	55.00	**35.00**	10.00	17999
Pacific	601	65.00	**35.00**	12.00	17558
Hallite	601	45.00	**35.50**	6.00	16997
Hallite	605	45.00	**35.50**	6.00	36579
Hallite	601	50.50	**35.50**	10.00	42616
Hallite	605	50.50	**35.50**	10.00	36580
Pacific	FRI	43.00	**36.00**	6.40	17645
Hallite	610	44.00	**36.00**	5.30	17315
Hallite	18	44.00	**36.00**	6.00	18785
Hallite	605	44.00	**36.00**	6.40	17330
Pacific	FR	44.00	**36.00**	6.40	17396

ROD SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	610	44.00	**36.00**	8.00	16479
Hallite	605	44.00	**36.00**	8.20	17487
Hallite	605	46.00	**36.00**	5.70	17331
Hallite	605	46.00	**36.00**	7.30	17316
Hallite	621	46.00	**36.00**	7.30	16480
Pacific	FR	46.00	**36.00**	8.00	15747
Pacific	FR	46.00	**36.00**	8.00	17160
Hallite	605	46.00	**36.00**	10.00	17317
Hallite	616	47.00	**36.00**	3.90	17398
Hallite	16	47.00	**36.00**	4.20	33382
Pacific	FR	48.00	**36.00**	9.50	18248
Pacific	FR	51.00	**36.00**	10.00	17466
Hallite	18	51.00	**36.00**	11.00	17943
Hallite	601	48.00	**38.00**	6.00	16998
Hallite	605	48.00	**38.00**	9.00	42633
Hallite	605	48.00	**38.00**	10.00	34725
Hallite	601	50.00	**38.00**	9.00	36567
Hallite	605	50.00	**38.00**	10.00	36568
Pacific	601	52.00	**38.00**	10.00	17874
Hallite	605	53.00	**38.00**	10.00	34398
Pacific	16	53.50	**38.00**	6.30	33383
Hallite	513	54.00	**38.00**	8.00	17345
Pacific	605	54.00	**38.00**	11.00	17676
Hallite	601	55.00	**38.00**	9.70	18046
Pacific	601	55.00	**38.00**	10.00	18024
Hallite	601	58.00	**38.00**	10.00	18704
Hallite	610	48.00	**40.00**	5.40	17237
Hallite	605	48.00	**40.00**	5.70	36143
Pacific	FR	48.00	**40.00**	6.40	17350
Hallite	610	48.00	**40.00**	6.50	17278

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	FR	48.00	**40.00**	6.50	16179
Hallite	610	48.00	**40.00**	8.00	17279
Hallite	605	48.00	**40.00**	8.20	17375
Pacific	601	48.00	**40.00**	10.00	17391
Hallite	605	49.50	**40.00**	9.50	17318
Hallite	601	50.00	**40.00**	6.00	16999
Hallite	605	50.00	**40.00**	6.00	17001
Hallite	601	50.00	**40.00**	6.50	16845
Hallite	605	50.00	**40.00**	7.30	17319
Hallite	621	50.00	**40.00**	7.30	18662
Pacific	FR	50.00	**40.00**	7.50	15438
Pacific	601	50.00	**40.00**	8.00	17521
Pacific	FRI	50.00	**40.00**	8.00	17789
Hallite	601	50.00	**40.00**	10.00	17354
Hallite	605	50.00	**40.00**	10.00	17380
Hallite	18	50.00	**40.00**	10.50	18224
Pacific	FRI	50.00	**40.00**	10.50	17792
Pacific	7	50.00	**40.00**	17.30	36503
Pacific	16	50.70	**40.00**	4.20	36219
Hallite	616	51.00	**40.00**	3.90	38209
Hallite	621	52.00	**40.00**	8.70	16804
Hallite	605	52.00	**40.00**	10.90	18452
Pacific	7	52.00	**40.00**	22.50	15104
Pacific	513	53.00	**40.00**	8.00	18110
Hallite	605	55.00	**40.00**	7.30	36312
Hallite	605	55.00	**40.00**	9.00	18203
Hallite	601	55.00	**40.00**	10.00	17488
Hallite	605	55.00	**40.00**	10.00	17355
Hallite	18	55.00	**40.00**	11.00	18530
Pacific	7	55.00	**40.00**	22.00	42482

ROD SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	7	55.00	**40.00**	22.50	15228
Hallite	616	55.50	**40.00**	6.00	17656
Hallite	16	55.50	**40.00**	6.30	33384
Pacific	653	55.50	**40.00**	6.30	47163
Pacific	601	56.00	**40.00**	10.00	18334
Pacific	601	60.00	**40.00**	10.00	18241
Hallite	601	60.00	**40.00**	12.00	17543
Hallite	18	60.00	**40.00**	14.00	18044
Pacific	601	60.00	**40.00**	18.00	17554
Pacific	601	56.00	**41.00**	8.00	19542
Hallite	18	56.00	**41.00**	11.00	15840
Pacific	601	50.00	**42.00**	5.00	17523
Hallite	605	50.00	**42.00**	5.70	39987
Hallite	605	50.00	**42.00**	7.50	17504
Hallite	605	52.00	**42.00**	7.00	42634
Hallite	605	52.00	**42.00**	10.00	16799
Pacific	513	55.00	**42.00**	7.00	18160
Hallite	18	57.00	**42.00**	11.00	19100
Pacific	16	57.50	**42.00**	6.30	33385
Pacific	601	62.00	**42.00**	12.00	18984
Pacific	FR	49.00	**43.00**	5.00	17296
Hallite	610	52.00	**45.00**	10.00	17280
Hallite	610	53.00	**45.00**	5.30	17414
Hallite	610	53.00	**45.00**	6.00	36615
Hallite	610	53.00	**45.00**	8.00	17126
Hallite	605	53.00	**45.00**	8.10	16759
Hallite	605	53.00	**45.00**	11.80	17356
Pacific	601	55.00	**45.00**	5.00	42832
Hallite	601	55.00	**45.00**	5.60	17381
Hallite	605	55.00	**45.00**	5.60	34727

ROD SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	601	55.00	**45.00**	6.00	17000
Hallite	605	55.00	**45.00**	6.00	17002
Hallite	605	55.00	**45.00**	7.30	17357
Hallite	621	55.00	**45.00**	7.30	16484
Pacific	601	55.00	**45.00**	8.00	18232
Pacific	513	55.00	**45.00**	10.00	34399
Hallite	601	55.00	**45.00**	10.00	17358
Hallite	605	55.00	**45.00**	10.00	17359
Hallite	610	55.00	**45.00**	10.00	16485
Hallite	621	55.00	**45.00**	10.00	42747
Pacific	FR	55.00	**45.00**	10.50	17905
Hallite	616	56.00	**45.00**	3.80	35377
Hallite	16	56.00	**45.00**	4.20	38335
Hallite	653	56.00	**45.00**	4.20	35909
Hallite	601	56.00	**45.00**	7.00	17018
Hallite	605	57.70	**45.00**	9.50	17360
Hallite	601	60.00	**45.00**	10.00	17544
Hallite	605	60.00	**45.00**	10.00	17361
Hallite	18	60.00	**45.00**	11.00	18266
Hallite	621	60.00	**45.00**	11.40	16486
Hallite	7	60.00	**45.00**	22.50	15201
Hallite	7	60.00	**45.00**	22.50	44005
Hallite	616	60.50	**45.00**	6.00	17630
Hallite	16	60.50	**45.00**	6.30	33386
Pacific	653	60.50	**45.00**	6.30	47164
Pacific	601	63.00	**45.00**	10.00	17620
Pacific	513	63.00	**45.00**	12.00	18159
Hallite	601	65.00	**45.00**	10.00	36569
Hallite	605	65.00	**45.00**	10.00	17362
Hallite	18	65.00	**45.00**	14.00	18051

ROD SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	601	55.50	**45.50**	10.00	17537
Hallite	601	56.00	**46.00**	6.00	34728
Pacific	18	76.00	**46.00**	25.00	18988
Hallite	605	60.00	**48.00**	10.00	16760
Pacific	513	63.00	**48.00**	10.00	34400
Hallite	601	63.00	**48.00**	10.00	17570
Hallite	18	63.00	**48.00**	11.00	18048
Hallite	605	57.00	**50.00**	9.00	34729
Hallite	610	58.00	**50.00**	5.30	17014
Hallite	610	58.00	**50.00**	8.00	17382
Hallite	601	60.00	**50.00**	5.60	17383
Hallite	601	60.00	**50.00**	6.00	17019
Hallite	605	60.00	**50.00**	6.00	34730
Hallite	605	60.00	**50.00**	7.30	17363
Hallite	621	60.00	**50.00**	7.30	16488
Hallite	18	60.00	**50.00**	7.50	18146
Pacific	601	60.00	**50.00**	8.00	47090
Hallite	601	60.00	**50.00**	10.00	17364
Hallite	605	60.00	**50.00**	10.00	17451
Hallite	610	60.00	**50.00**	10.00	16489
Hallite	621	60.00	**50.00**	10.00	42748
Hallite	605	60.00	**50.00**	11.80	17365
Pacific	16	60.70	**50.00**	4.20	32038
Hallite	652	62.00	**50.00**	8.50	18284
Pacific	601	62.00	**50.00**	9.00	18311
Pacific	FR	62.00	**50.00**	9.50	17592
Hallite	605	62.70	**50.00**	9.50	17425
Pacific	601	63.00	**50.00**	6.00	35875
Pacific	513	63.00	**50.00**	10.00	18302
Hallite	7	63.00	**50.00**	20.00	15167

ROD SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	513	65.00	**50.00**	9.00	18301
Hallite	605	65.00	**50.00**	9.00	34731
Hallite	605	65.00	**50.00**	9.50	17742
Hallite	18	65.00	**50.00**	10.00	18392
Hallite	601	65.00	**50.00**	10.00	17613
Hallite	605	65.00	**50.00**	10.00	16728
Hallite	605	65.00	**50.00**	10.90	17426
Hallite	18	65.00	**50.00**	11.00	18004
Hallite	621	65.00	**50.00**	11.40	18462
Hallite	605	65.00	**50.00**	14.50	17933
Pacific	7	65.00	**50.00**	22.50	15195
Hallite	616	65.50	**50.00**	6.00	17898
Hallite	16	65.50	**50.00**	6.30	33387
Hallite	653	65.50	**50.00**	6.30	35747
Hallite	601	70.00	**50.00**	12.00	17796
Hallite	605	70.00	**50.00**	12.00	34732
Hallite	18	70.00	**50.00**	14.00	18122
Hallite	7	70.00	**50.00**	30.00	14103
Pacific	601	75.00	**50.00**	5.00	34404
Hallite	18	80.00	**50.00**	25.00	18775
Pacific	FRI	59.00	**51.00**	6.50	17988
Pacific	513	73.00	**51.00**	11.00	18771
Hallite	513	76.00	**51.00**	12.50	18459
Hallite	601	62.00	**52.00**	10.00	35736
Pacific	601	62.00	**52.00**	12.00	18244
Pacific	601	72.00	**52.00**	12.00	19553
Hallite	601	63.00	**53.00**	6.00	17020
Hallite	605	63.00	**53.00**	7.00	16827
Pacific	511	63.00	**53.00**	10.00	18376
Hallite	605	65.00	**53.00**	9.00	17830

ROD SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	601	67.00	**54.00**	9.50	17528
Pacific	FR	70.00	**54.00**	9.50	17740
Hallite	513	73.00	**54.00**	9.50	18341
Pacific	513	73.00	**54.00**	16.00	18954
Hallite	610	63.00	**55.00**	8.00	17716
Pacific	601	65.00	**55.00**	5.00	17567
Hallite	601	65.00	**55.00**	6.00	17083
Hallite	605	65.00	**55.00**	6.00	34733
Hallite	610	65.00	**55.00**	7.00	17848
Hallite	605	65.00	**55.00**	7.30	36245
Hallite	18	65.00	**55.00**	8.00	18124
Hallite	605	65.00	**55.00**	8.20	17540
Hallite	605	65.00	**55.00**	10.00	17428
Hallite	621	65.00	**55.00**	10.00	42749
Hallite	605	65.00	**55.00**	11.80	17429
Pacific	605	67.00	**55.00**	10.00	18342
Hallite	605	68.00	**55.00**	10.00	17385
Hallite	605	70.00	**55.00**	9.00	19552
Hallite	621	70.00	**55.00**	11.40	18423
Hallite	605	70.00	**55.00**	11.80	17422
Pacific	7	70.00	**55.00**	25.00	14076
Hallite	16	70.50	**55.00**	6.30	33379
Hallite	653	70.50	**55.00**	6.30	35748
Pacific	605	71.00	**55.00**	12.00	18182
Hallite	601	75.00	**55.00**	12.00	17849
Hallite	605	75.00	**55.00**	12.00	34734
Hallite	18	75.00	**55.00**	14.00	18148
Pacific	601	80.00	**55.00**	12.00	47204
Hallite	610	64.00	**56.00**	8.00	17430
Hallite	601	66.00	**56.00**	6.00	17084

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	610	66.00	**56.00**	6.50	16493
Hallite	601	66.00	**56.00**	7.30	17431
Hallite	605	66.00	**56.00**	10.00	17432
Hallite	18	68.00	**56.00**	9.00	18127
Hallite	601	71.00	**56.00**	8.40	17601
Hallite	605	71.00	**56.00**	10.00	17594
Hallite	605	71.00	**56.00**	11.40	17595
Hallite	621	71.00	**56.00**	11.40	16494
Hallite	18	71.00	**56.00**	12.00	18938
Hallite	7	71.00	**56.00**	25.00	14098
Hallite	616	71.50	**56.00**	6.00	17719
Hallite	16	71.50	**56.00**	6.30	33388
Pacific	601	76.00	**56.00**	12.00	17856
Hallite	18	76.00	**56.00**	14.00	18162
Pacific	7	76.00	**56.00**	28.00	15093
Hallite	7	76.00	**56.00**	30.00	14099
Hallite	7	76.00	**56.00**	30.00	44008
Pacific	513	73.00	**57.00**	8.00	35895
Hallite	513	73.00	**57.00**	13.00	17600
Pacific	601	68.00	**58.00**	6.00	17338
Hallite	610	68.00	**60.00**	7.00	39989
Hallite	610	68.00	**60.00**	8.00	17460
Hallite	605	68.00	**60.00**	11.00	34735
Hallite	610	68.00	**60.00**	11.40	18094
Hallite	601	70.00	**60.00**	6.00	17127
Hallite	605	70.00	**60.00**	6.00	17133
Hallite	605	70.00	**60.00**	7.00	36197A
Hallite	610	70.00	**60.00**	7.00	17366
Hallite	601	70.00	**60.00**	8.00	18382
Pacific	FR	70.00	**60.00**	8.00	18100

ROD SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	FR	70.00	**60.00**	9.50	34402
Hallite	601	70.00	**60.00**	10.00	17610
Hallite	605	70.00	**60.00**	10.00	17596
Hallite	605	70.00	**60.00**	11.80	17651
Hallite	610	70.00	**60.00**	11.80	16495
Pacific	FR	70.00	**60.00**	12.50	34401
Hallite	616	70.60	**60.00**	3.90	16763
Hallite	601	71.00	**60.00**	7.00	17128
Hallite	605	71.00	**60.00**	7.00	34736
Hallite	18	71.00	**60.00**	9.00	18289
Hallite	652	72.00	**60.00**	8.70	36708
Hallite	18	72.00	**60.00**	9.50	17968
Pacific	FR	72.00	**60.00**	9.50	19066
Hallite	605	72.00	**60.00**	10.00	17652
Hallite	605	73.00	**60.00**	10.00	36581
Hallite	621	73.00	**60.00**	13.00	34737
Hallite	605	75.00	**60.00**	9.00	34738
Pacific	601	75.00	**60.00**	10.00	34405
Hallite	605	75.00	**60.00**	10.00	17657
Hallite	621	75.00	**60.00**	11.40	18991
Hallite	605	75.00	**60.00**	11.80	17653
Hallite	652	75.00	**60.00**	11.80	36709
Hallite	605	75.00	**60.00**	20.50	16496
Hallite	16	75.50	**60.00**	6.30	33377
Hallite	616	75.50	**60.00**	6.30	42866
Hallite	653	75.50	**60.00**	6.30	35749
Pacific	601	76.00	**60.00**	8.00	35279
Hallite	601	76.00	**60.00**	12.00	18817
Hallite	605	80.00	**60.00**	11.40	34739
Hallite	601	80.00	**60.00**	12.00	17934

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	605	80.00	**60.00**	12.00	34740
Hallite	18	80.00	**60.00**	14.00	18526
Hallite	7	80.00	**60.00**	30.00	14100
Pacific	601	85.00	**60.00**	10.00	18902
Pacific	658	69.00	**61.00**	8.00	47095
Pacific	601	75.00	**62.00**	10.00	47024
Pacific	513	81.00	**62.00**	10.00	38135
Pacific	601	82.00	**62.00**	12.00	17897
Hallite	610	71.00	**63.00**	8.00	17923
Hallite	601	73.00	**63.00**	6.00	17129
Hallite	605	73.00	**63.00**	6.00	34741
Hallite	601	73.00	**63.00**	8.00	18026
Hallite	601	73.00	**63.00**	11.80	17541
Hallite	605	73.00	**63.00**	11.80	17519
Hallite	610	75.00	**63.00**	8.60	17975
Hallite	652	75.00	**63.00**	8.70	34742
Pacific	FR	75.00	**63.00**	9.60	18000
Pacific	601	75.00	**63.00**	10.00	18727
Hallite	601	78.00	**63.00**	8.40	17677
Hallite	605	78.00	**63.00**	10.00	17678
Hallite	605	78.00	**63.00**	11.40	17679
Hallite	621	78.00	**63.00**	11.40	16497
Hallite	616	78.50	**63.00**	6.00	16498
Hallite	16	78.50	**63.00**	6.30	33378
Pacific	601	83.00	**63.00**	10.00	16111
Hallite	621	83.00	**63.00**	11.80	19524
Hallite	18	83.00	**63.00**	14.00	18264
Hallite	7	83.00	**63.00**	30.00	15174
Hallite	7	83.00	**63.00**	30.00	44010
Hallite	610	73.00	**65.00**	8.00	17895

ROD SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	601	75.00	**65.00**	6.00	17130
Hallite	605	75.00	**65.00**	6.00	34743
Hallite	605	75.00	**65.00**	7.70	17563
Pacific	513	75.00	**65.00**	10.00	18512
Hallite	605	75.00	**65.00**	11.80	17564
Hallite	610	75.00	**65.00**	11.80	16499
Hallite	605	77.00	**65.00**	9.00	36582
Pacific	FR	77.00	**65.00**	9.60	18065
Hallite	605	77.70	**65.00**	9.50	17976
Hallite	610	78.00	**65.00**	10.00	18796
Hallite	601	80.00	**65.00**	8.40	17833
Hallite	605	80.00	**65.00**	9.00	34744
Pacific	601	80.00	**65.00**	10.00	18747
Hallite	18	80.00	**65.00**	11.00	18165
Hallite	605	80.00	**65.00**	11.80	17823
Hallite	616	80.50	**65.00**	6.00	34745
Hallite	16	80.50	**65.00**	6.30	33376
Hallite	653	80.50	**65.00**	6.30	39995
Hallite	601	85.00	**65.00**	12.00	17977
Hallite	605	85.00	**65.00**	12.00	35738
Hallite	18	85.00	**65.00**	14.00	18227
Hallite	7	85.00	**65.00**	30.00	14101
Hallite	7	85.00	**65.00**	30.00	44011
Pacific	601	90.00	**65.00**	19.00	19083
Pacific	601	76.00	**66.00**	5.00	18037
Pacific	601	80.00	**66.00**	10.00	18925
Hallite	605	77.00	**67.00**	6.00	18409
Hallite	610	78.00	**70.00**	8.00	17761
Pacific	605	78.00	**70.00**	11.50	47210
Hallite	601	80.00	**70.00**	6.00	17192

ROD SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	605	80.00	**70.00**	6.00	34523
Hallite	610	80.00	**70.00**	6.50	16500
Hallite	601	80.00	**70.00**	11.80	17824
Hallite	605	80.00	**70.00**	11.80	17762
Pacific	FR	82.00	**70.00**	8.60	17755
Hallite	605	82.00	**70.00**	8.70	34746
Hallite	652	82.00	**70.00**	8.70	36710
Hallite	605	82.00	**70.00**	10.00	17825
Pacific	FR	82.00	**70.00**	10.00	17927
Hallite	605	83.00	**70.00**	10.00	17623
Hallite	18	84.00	**70.00**	12.00	18489
Hallite	601	85.00	**70.00**	8.40	17834
Hallite	605	85.00	**70.00**	9.00	34747
Hallite	605	85.00	**70.00**	10.00	17826
Hallite	605	85.00	**70.00**	11.40	17932
Hallite	621	85.00	**70.00**	11.40	18903
Pacific	FRI	85.00	**70.00**	12.00	18831
Hallite	605	85.00	**70.00**	20.50	16502
Pacific	7	85.00	**70.00**	22.50	34789
Hallite	7	85.00	**70.00**	24.00	15211
Hallite	616	85.50	**70.00**	6.00	17797
Hallite	16	85.50	**70.00**	6.30	33369
Hallite	653	85.50	**70.00**	6.30	39996
Pacific	513	90.00	**70.00**	12.00	34408
Hallite	601	90.00	**70.00**	12.00	17990
Hallite	605	90.00	**70.00**	12.00	34748
Hallite	18	90.00	**70.00**	14.00	18288
Hallite	7	90.00	**70.00**	30.00	15183
Hallite	601	92.00	**70.00**	12.00	18099
Hallite	601	80.00	**71.00**	6.00	17193

ROD SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	605	81.00	**71.00**	6.00	38121
Pacific	601	86.00	**71.00**	10.00	18042
Pacific	601	90.00	**72.00**	12.00	19120
Pacific	18	92.00	**73.00**	14.50	18406
Pacific	601	82.00	**74.50**	9.00	36395
Hallite	610	83.00	**75.00**	8.00	34749
Hallite	601	85.00	**75.00**	6.00	17194
Hallite	605	85.00	**75.00**	6.00	36407
Hallite	601	85.00	**75.00**	11.80	17798
Hallite	605	85.00	**75.00**	11.80	17799
Hallite	605	88.00	**75.00**	10.00	18692
Hallite	621	88.00	**75.00**	13.00	34407
Pacific	601	90.00	**75.00**	7.50	18811
Hallite	601	90.00	**75.00**	9.00	18618
Hallite	605	90.00	**75.00**	9.00	16850
Hallite	18	90.00	**75.00**	12.00	18309
Pacific	601	90.00	**75.00**	12.00	18471
Hallite	16	90.50	**75.00**	6.30	33370
Hallite	16	90.50	**75.00**	6.30	33370A
Hallite	616	90.50	**75.00**	6.30	38236
Hallite	653	90.50	**75.00**	6.30	39997
Hallite	601	95.00	**75.00**	12.00	18154
Hallite	605	95.00	**75.00**	12.00	34750
Hallite	652	95.00	**75.00**	12.50	36711
Hallite	18	95.00	**75.00**	14.00	18287
Hallite	601	100.00	**75.00**	22.00	36570
Pacific	658	84.00	**76.00**	8.00	47096
Hallite	605	86.00	**78.00**	9.00	34751
Pacific	18	103.00	**78.00**	19.00	18912
Hallite	610	88.00	**80.00**	8.00	17827

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	601	90.00	**80.00**	6.00	17284
Hallite	605	90.00	**80.00**	6.00	34752
Hallite	601	90.00	**80.00**	8.00	34753
Hallite	605	90.00	**80.00**	10.00	17720
Hallite	601	90.00	**80.00**	11.80	17828
Hallite	605	90.00	**80.00**	11.80	17829
Pacific	513	90.00	**80.00**	12.00	34409
Pacific	416	90.70	**80.00**	4.20	47045
Hallite	605	92.00	**80.00**	8.70	34754
Pacific	FR	92.00	**80.00**	9.00	15456
Pacific	18	92.00	**80.00**	9.60	18280A
Hallite	605	93.00	**80.00**	10.00	18025
Hallite	601	95.00	**80.00**	8.40	17995
Hallite	605	95.00	**80.00**	9.00	34770
Hallite	605	95.00	**80.00**	10.00	18012
Hallite	621	95.00	**80.00**	11.40	19116
Hallite	605	95.00	**80.00**	11.80	18011
Hallite	18	95.00	**80.00**	12.00	18933
Pacific	FR	95.00	**80.00**	12.50	18871
Hallite	621	95.00	**80.00**	13.00	34756
Hallite	616	95.50	**80.00**	6.00	17924
Hallite	16	95.50	**80.00**	6.30	33371
Hallite	653	95.50	**80.00**	6.30	39998
Hallite	601	100.00	**80.00**	12.00	18155
Hallite	605	100.00	**80.00**	12.00	34758
Hallite	18	100.00	**80.00**	14.00	18316
Hallite	21	100.00	**80.00**	14.00	18687
Pacific	FR	100.00	**80.00**	14.00	18695
Hallite	605	100.00	**80.00**	14.50	18351
Pacific	FR	100.00	**80.00**	14.50	18573

ROD SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	7	100.00	**80.00**	30.00	15172
Pacific	601	92.00	**82.00**	10.00	18849
Hallite	605	93.00	**85.00**	10.00	18400
Pacific	601	95.00	**85.00**	6.00	18810
Pacific	601	95.00	**85.00**	8.60	34634
Hallite	631	97.00	**85.00**	8.70	34760
Hallite	610	97.00	**85.00**	9.00	18233
Hallite	18	97.00	**85.00**	10.80	18464
Pacific	7	98.00	**85.00**	25.00	15159
Hallite	601	100.00	**85.00**	8.40	18080
Hallite	601	100.00	**85.00**	8.90	17721
Hallite	605	100.00	**85.00**	9.00	17980
Hallite	605	100.00	**85.00**	10.00	18799
Hallite	605	100.00	**85.00**	11.80	18070
Pacific	FRI	100.00	**85.00**	12.00	18806
Hallite	621	100.00	**85.00**	13.00	34761
Hallite	16	100.50	**85.00**	6.30	33372
Hallite	16	100.50	**85.00**	6.30	33372A
Hallite	653	100.50	**85.00**	6.30	39999
Hallite	18	105.00	**85.00**	12.00	18699
Hallite	601	105.00	**85.00**	12.00	18252
Hallite	605	105.00	**85.00**	12.00	16734
Hallite	18	105.00	**85.00**	15.00	18658
Hallite	7	105.00	**85.00**	30.00	15107
Hallite	610	95.00	**87.00**	8.00	17597
Hallite	610	98.00	**90.00**	8.00	17952
Hallite	605	98.00	**90.00**	11.40	36584
Hallite	605	100.00	**90.00**	6.80	34771
Pacific	601	100.00	**90.00**	8.00	18611
Hallite	605	100.00	**90.00**	9.00	17978

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	FRI	100.00	**90.00**	10.50	18242
Hallite	601	100.00	**90.00**	11.80	18095
Hallite	605	100.00	**90.00**	11.80	18096
Hallite	605	102.00	**90.00**	8.70	18250
Pacific	FR	102.00	**90.00**	9.60	19077
Hallite	601	105.00	**90.00**	8.40	18102
Hallite	601	105.00	**90.00**	8.90	17800
Hallite	605	105.00	**90.00**	9.00	34772
Hallite	605	105.00	**90.00**	10.00	17858
Hallite	605	105.00	**90.00**	11.40	18097
Hallite	621	105.00	**90.00**	11.40	19010
Hallite	621	105.00	**90.00**	12.50	34764
Hallite	652	105.00	**90.00**	14.50	36712
Hallite	616	105.50	**90.00**	6.00	16503
Hallite	16	105.50	**90.00**	6.30	33366
Hallite	653	105.50	**90.00**	6.30	35750
Hallite	18	110.00	**90.00**	10.00	18295
Hallite	601	110.00	**90.00**	12.00	18379
Hallite	605	110.00	**90.00**	12.00	16735
Hallite	18	110.00	**90.00**	14.00	18428
Pacific	513	110.00	**90.00**	14.50	18839
Hallite	18	110.00	**90.00**	15.00	18457
Hallite	7	110.00	**90.00**	30.00	14104
Pacific	658	99.00	**91.00**	8.00	47097
Pacific	513	111.00	**92.00**	9.50	19152
Pacific	FRI	105.00	**95.00**	10.00	18777
Hallite	601	110.00	**95.00**	8.90	17870
Hallite	605	110.00	**95.00**	9.00	18066
Hallite	605	110.00	**95.00**	10.00	17859
Hallite	605	110.00	**95.00**	12.00	18808

ROD SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	621	110.00	**95.00**	13.00	34655
Hallite	616	110.50	**95.00**	5.60	34773
Hallite	16	110.50	**95.00**	6.30	33367
Hallite	653	110.50	**95.00**	6.30	40000
Pacific	513	115.00	**95.00**	12.00	34412
Hallite	601	115.00	**95.00**	12.00	18401
Hallite	605	115.00	**95.00**	12.00	16736
Hallite	18	115.00	**95.00**	14.00	18456
Pacific	601	125.00	**95.00**	15.00	47209
Hallite	605	104.00	**96.00**	10.90	18057
Pacific	FR	105.00	**96.00**	8.00	19185
Pacific	FR	108.00	**96.00**	12.50	19027
Pacific	513	105.00	**97.00**	13.00	18870
Pacific	FR	108.00	**97.00**	12.50	19028
Pacific	FR	107.50	**98.00**	7.00	19026
Pacific	601	109.00	**99.00**	15.00	18725
Hallite	610	108.00	**100.00**	8.00	17953
Hallite	601	110.00	**100.00**	8.00	18380
Hallite	605	110.00	**100.00**	10.90	16822
Hallite	601	115.00	**100.00**	8.90	17871
Hallite	605	115.00	**100.00**	9.00	18083
Hallite	652	115.00	**100.00**	11.00	36713
Hallite	605	115.00	**100.00**	11.80	18283
Hallite	18	115.00	**100.00**	12.00	18417
Hallite	621	115.00	**100.00**	13.00	34774
Hallite	652	115.00	**100.00**	14.50	36714
Hallite	616	115.50	**100.00**	6.00	34775
Hallite	16	115.50	**100.00**	6.30	33368
Hallite	653	115.50	**100.00**	6.30	40001
Pacific	605	120.00	**100.00**	10.00	47112

ROD SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	605	120.00	**100.00**	10.00	47112
Hallite	605	120.00	**100.00**	11.80	18325
Hallite	601	120.00	**100.00**	12.00	18474
Hallite	18	120.00	**100.00**	14.00	18463
Pacific	513	120.00	**100.00**	14.00	18920
Hallite	605	120.00	**100.00**	14.50	18648
Hallite	621	120.00	**100.00**	14.50	19184
Hallite	7	120.00	**100.00**	30.00	15113
Pacific	601	125.00	**100.00**	9.00	19013
Pacific	601	125.00	**100.00**	12.00	19199
Pacific	601	125.00	**100.00**	15.00	18923
Hallite	18	125.00	**100.00**	19.00	18646
Hallite	605	113.00	**105.00**	10.00	17681
Pacific	601	115.00	**105.00**	6.00	19064
Hallite	21	115.00	**105.00**	10.50	19332
Hallite	605	115.00	**105.00**	13.20	18352
Hallite	605	120.00	**105.00**	9.00	40622
Hallite	605	120.00	**105.00**	14.50	18649
Hallite	16	120.50	**105.00**	6.30	47068
Pacific	16	120.50	**105.00**	6.30	33373
Hallite	601	125.00	**105.00**	11.40	18523
Hallite	601	125.00	**105.00**	15.00	18501
Hallite	605	125.00	**105.00**	15.00	42635
Hallite	7	125.00	**105.00**	30.00	14096
Pacific	601	120.00	**106.00**	8.50	18606
Pacific	658	115.00	**107.00**	8.00	47098
Hallite	605	123.00	**108.00**	10.90	18673
Pacific	FR	124.00	**110.00**	9.00	34413
Hallite	605	125.00	**110.00**	9.00	18520
Hallite	18	125.00	**110.00**	11.00	18596

ROD SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	605	125.00	**110.00**	11.00	34779
Hallite	605	125.00	**110.00**	14.50	34778
Hallite	652	125.00	**110.00**	14.50	36715
Hallite	616	125.50	**110.00**	6.00	34781
Hallite	16	125.50	**110.00**	6.30	33374
Hallite	653	125.50	**110.00**	6.30	40002
Hallite	601	130.00	**110.00**	11.00	18676
Hallite	605	130.00	**110.00**	11.80	18674
Hallite	621	130.00	**110.00**	13.00	34782
Hallite	18	130.00	**110.00**	14.00	18760
Hallite	605	130.00	**110.00**	14.50	18773
Hallite	621	130.00	**110.00**	14.50	19127
Hallite	601	130.00	**110.00**	15.00	18521
Hallite	7	130.00	**110.00**	30.00	14106
Hallite	7	130.00	**110.00**	30.00	44018
Pacific	7	130.00	**110.00**	31.00	15101
Hallite	605	135.00	**110.00**	14.50	18877
Pacific	513	135.00	**110.00**	18.00	19071
Hallite	18	135.00	**110.00**	19.00	18821
Hallite	601	125.00	**112.00**	8.90	17872
Hallite	605	125.00	**112.00**	9.00	34783
Pacific	605	132.00	**112.00**	15.00	16852
Pacific	605	135.00	**112.00**	15.00	35316
Pacific	18	130.00	**114.00**	10.50	18510
Hallite	601	126.00	**115.00**	14.00	16464
Hallite	601	130.00	**115.00**	9.00	44054
Hallite	605	130.00	**115.00**	9.00	18784
Hallite	605	130.00	**115.00**	10.90	16764
Pacific	601	130.00	**115.00**	11.00	18957
Hallite	605	130.00	**115.00**	14.50	18743

ROD SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	621	130.00	**115.00**	14.50	34784
Hallite	16	130.50	**115.00**	6.30	33375
Pacific	605	135.00	**115.00**	12.00	16853
Hallite	18	135.00	**115.00**	14.00	18753
Hallite	601	135.00	**115.00**	15.00	18665
Pacific	601	140.00	**115.00**	12.00	47107
Pacific	605	133.00	**118.00**	9.00	16854
Hallite	605	128.00	**120.00**	11.40	36585
Hallite	605	130.00	**120.00**	10.90	16823
Hallite	605	135.00	**120.00**	9.00	19163
Hallite	621	135.00	**120.00**	14.50	19219
Hallite	631	135.00	**120.00**	14.50	36678
Hallite	16	135.50	**120.00**	6.30	34542
Hallite	16	135.50	**120.00**	6.30	47069
Hallite	18	140.00	**120.00**	12.00	18669
Hallite	605	140.00	**120.00**	12.00	18450
Hallite	621	140.00	**120.00**	13.00	34785
Hallite	601	140.00	**120.00**	14.50	18848
Hallite	605	140.00	**120.00**	14.50	18847
Hallite	601	140.00	**120.00**	15.00	18720
Hallite	18	145.00	**120.00**	19.00	18879
Hallite	605	133.00	**125.00**	11.00	18130
Hallite	601	140.00	**125.00**	8.90	18077
Hallite	605	140.00	**125.00**	9.00	34786
Hallite	601	140.00	**125.00**	12.30	16465
Hallite	621	140.00	**125.00**	14.50	36244
Hallite	616	140.50	**125.00**	6.00	34787
Hallite	16	140.50	**125.00**	6.30	34543
Hallite	653	140.50	**125.00**	6.30	42601
Hallite	601	145.00	**125.00**	11.00	18905

ROD SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	605	145.00	**125.00**	12.00	35181
Hallite	18	145.00	**125.00**	14.00	19265
Hallite	605	145.00	**125.00**	14.50	18904
Hallite	621	145.00	**125.00**	14.50	16505
Hallite	601	145.00	**125.00**	15.00	18783
Hallite	7	145.00	**125.00**	30.00	15166
Hallite	7	145.00	**125.00**	30.00	44020
Pacific	7	145.00	**125.00**	30.00	36090
Hallite	605	150.00	**125.00**	12.50	19073
Pacific	513	150.00	**125.00**	18.00	19195
Hallite	18	150.00	**125.00**	19.00	18913
Hallite	7	150.00	**125.00**	37.00	14108
Pacific	658	134.00	**126.00**	8.00	47099
Hallite	605	140.00	**130.00**	14.50	18972
Pacific	513	143.00	**130.00**	7.00	38136
Hallite	605	145.00	**130.00**	9.00	35182
Pacific	FRI	145.00	**130.00**	9.50	19344
Hallite	605	145.00	**130.00**	11.00	19314
Pacific	FR	145.00	**130.00**	13.00	19345
Hallite	16	145.50	**130.00**	6.30	34544
Pacific	513	146.00	**130.00**	16.00	38137
Pacific	601	150.00	**130.00**	10.00	19266
Hallite	605	150.00	**130.00**	12.00	35183
Hallite	605	150.00	**130.00**	14.50	18969
Hallite	601	150.00	**130.00**	15.00	18820
Hallite	621	150.00	**130.00**	15.00	36626
Hallite	605	157.50	**132.50**	13.20	18970
Hallite	605	150.00	**135.00**	10.00	42639
Hallite	16	150.50	**135.00**	6.30	34545
Hallite	653	150.50	**135.00**	6.30	42602

ROD SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	18	160.00	**135.00**	19.00	19135
Pacific	601	165.00	**135.00**	18.00	19315
Hallite	601	150.00	**136.00**	8.50	18078
Hallite	605	150.00	**140.00**	10.90	16824
Hallite	601	154.00	**140.00**	9.00	35185
Hallite	601	155.00	**140.00**	8.90	18131
Hallite	605	155.00	**140.00**	9.00	35186
Hallite	605	155.00	**140.00**	11.80	35735
Hallite	616	155.50	**140.00**	6.00	35187
Hallite	16	155.50	**140.00**	6.30	34546
Hallite	605	160.00	**140.00**	11.80	18971
Hallite	621	160.00	**140.00**	13.00	35188
Hallite	18	160.00	**140.00**	14.00	19089
Hallite	605	160.00	**140.00**	14.50	19038
Hallite	621	160.00	**140.00**	14.50	16507
Hallite	601	160.00	**140.00**	15.00	18981
Hallite	18	165.00	**140.00**	19.00	19132
Pacific	601	170.00	**140.00**	18.00	38193
Hallite	601	160.00	**145.00**	8.90	18156
Hallite	16	160.50	**145.00**	6.30	34547
Hallite	601	165.00	**145.00**	15.00	18907
Hallite	605	160.00	**150.00**	11.00	36144
Hallite	601	165.00	**150.00**	8.90	18369
Hallite	605	165.00	**150.00**	9.00	35189
Hallite	652	165.00	**150.00**	14.50	36717
Hallite	16	165.50	**150.00**	6.30	47070
Pacific	16	165.50	**150.00**	6.30	34548
Hallite	653	165.50	**150.00**	6.30	42603
Hallite	605	170.00	**150.00**	12.00	35191
Hallite	605	170.00	**150.00**	13.20	18917

ROD SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	605	170.00	**150.00**	14.50	18976
Hallite	621	170.00	**150.00**	14.50	42507
Hallite	601	170.00	**150.00**	15.00	19023
Pacific	513	180.00	**150.00**	18.00	19238
Hallite	601	170.00	**155.00**	9.00	16856
Hallite	605	170.00	**155.00**	14.50	18977
Hallite	653	170.50	**155.00**	6.30	42604
Hallite	601	180.00	**155.00**	15.00	18983
Hallite	601	175.00	**160.00**	9.00	16858
Hallite	605	175.00	**160.00**	10.90	16825
Hallite	652	175.00	**160.00**	11.70	36718
Hallite	652	175.00	**160.00**	14.50	36719
Hallite	616	175.50	**160.00**	6.00	35195
Hallite	16	175.50	**160.00**	6.30	34549
Hallite	653	175.50	**160.00**	6.30	42605
Hallite	605	180.00	**160.00**	12.00	35196
Hallite	605	180.00	**160.00**	14.50	19002
Hallite	621	180.00	**160.00**	14.50	16766
Hallite	18	180.00	**160.00**	15.00	19304
Hallite	601	185.00	**160.00**	15.00	18992
Hallite	631	185.00	**160.00**	18.80	35197
Hallite	18	190.00	**160.00**	24.00	19305
Hallite	601	180.00	**165.00**	9.00	16859
Hallite	605	180.00	**165.00**	9.00	36586
Pacific	601	180.00	**165.00**	9.50	19145
Hallite	601	183.00	**165.00**	10.00	35198
Hallite	601	190.00	**165.00**	15.00	19032
Pacific	513	190.00	**165.00**	16.00	19268
Pacific	605	185.00	**170.00**	9.00	16861
Hallite	605	185.00	**170.00**	10.00	19272

ROD SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	621	185.00	**170.00**	14.50	39990
Hallite	16	185.50	**170.00**	6.30	34554
Hallite	653	185.50	**170.00**	6.30	42606
Hallite	605	190.00	**170.00**	14.50	19156
Hallite	601	195.00	**170.00**	15.00	19044
Pacific	513	195.00	**170.00**	16.00	19276
Pacific	7	195.00	**170.00**	34.00	36176
Hallite	18	200.00	**170.00**	24.00	15782
Pacific	513	185.00	**175.00**	11.40	19278
Hallite	601	190.00	**175.00**	9.00	40013
Pacific	605	190.00	**175.00**	9.00	16862
Hallite	601	200.00	**175.00**	15.00	19080
Pacific	513	200.00	**175.00**	18.00	19320
Hallite	18	200.00	**175.00**	19.00	19330
Hallite	652	195.00	**180.00**	14.50	39991
Hallite	16	195.50	**180.00**	6.30	34555
Hallite	601	200.00	**180.00**	12.00	19218
Hallite	621	200.00	**180.00**	14.50	16767
Hallite	601	205.00	**180.00**	15.00	19093
Hallite	18	210.00	**180.00**	24.00	19337
Hallite	7	210.00	**180.00**	47.00	44021
Hallite	631	205.00	**190.00**	14.50	35200
Hallite	16	205.50	**190.00**	6.30	34556
Hallite	601	210.00	**190.00**	12.00	34518
Pacific	513	215.00	**190.00**	15.00	19309
Hallite	601	215.00	**190.00**	15.00	34519
Pacific	FRI	220.00	**190.00**	19.00	36094
Hallite	652	210.00	**195.00**	14.50	36722
Hallite	601	220.00	**200.00**	12.00	19259
Hallite	605	220.00	**200.00**	12.00	35202

ROD SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	605	220.00	**200.00**	14.50	19327
Hallite	621	220.00	**200.00**	14.50	16768
Hallite	18	220.00	**200.00**	15.00	19350
Hallite	16	221.00	**200.00**	8.10	34557
Pacific	601	224.00	**200.00**	14.50	42271
Hallite	601	225.00	**200.00**	15.00	34526
Pacific	513	225.00	**200.00**	18.00	19323
Hallite	18	230.00	**200.00**	24.00	19363
Hallite	605	220.00	**205.00**	12.20	35204
Pacific	605	230.00	**210.00**	12.00	16865
Hallite	652	230.00	**210.00**	14.50	36725
Hallite	16	231.10	**210.00**	8.10	34558
Hallite	601	235.00	**210.00**	18.00	34527
Pacific	513	254.00	**216.00**	20.00	38139
Hallite	601	240.00	**220.00**	12.00	16867
Hallite	605	240.00	**220.00**	14.50	35338
Hallite	16	241.10	**220.00**	8.10	34559
Hallite	601	250.00	**220.00**	17.00	16769
Pacific	FRI	250.00	**220.00**	19.00	36136
Hallite	18	250.00	**220.00**	22.00	19375
Pacific	601	240.00	**225.00**	13.00	19453
Hallite	18	250.00	**225.00**	18.00	19379
Pacific	513	250.00	**225.00**	18.00	19333
Pacific	513	255.00	**225.00**	22.50	19340
Hallite	601	250.00	**230.00**	12.50	19336
Hallite	652	250.00	**230.00**	14.50	39992
Pacific	605	255.00	**230.00**	19.00	19290
Hallite	18	260.00	**230.00**	24.00	19387
Hallite	601	260.00	**240.00**	12.00	35913
Pacific	605	260.00	**240.00**	12.00	16869

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	652	260.00	**240.00**	14.50	36730
Hallite	18	260.00	**240.00**	17.00	19388
Hallite	16	261.10	**240.00**	8.10	34560
Hallite	601	265.00	**240.00**	18.00	19298
Hallite	18	270.00	**240.00**	24.00	19394
Pacific	605	270.00	**250.00**	12.00	16870
Pacific	605	270.00	**250.00**	16.00	16871
Hallite	16	271.10	**250.00**	8.10	34561
Hallite	601	275.00	**250.00**	18.00	19303
Pacific	605	280.00	**250.00**	22.00	38122
Pacific	513	280.00	**250.00**	22.50	19358
Hallite	18	280.00	**250.00**	24.00	19400
Hallite	652	275.00	**255.00**	14.50	36731
Pacific	605	285.00	**260.00**	19.00	16872
Hallite	601	290.00	**260.00**	18.00	19342
Hallite	18	290.00	**260.00**	24.00	19408
Hallite	601	295.00	**265.00**	18.00	19366
Hallite	16	294.50	**270.00**	8.10	36220
Hallite	601	300.00	**270.00**	18.00	34528
Hallite	18	300.00	**270.00**	24.00	19415
Hallite	652	300.00	**280.00**	14.50	39993
Pacific	605	300.00	**280.00**	15.00	38123
Hallite	16	304.50	**280.00**	8.10	36221
Hallite	601	310.00	**280.00**	18.00	19374
Hallite	18	310.00	**280.00**	24.00	19424
Hallite	16	314.50	**290.00**	8.10	36222
Hallite	601	320.00	**290.00**	18.00	19353
Hallite	16	324.50	**300.00**	8.10	36223
Hallite	601	330.00	**300.00**	18.00	34529
Hallite	18	330.00	**300.00**	24.00	19435

ROD SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD	ID	HEIGHT	
		A	B	C	PART NO.
Hallite	652	340.00	**320.00**	14.50	36739
Hallite	652	340.00	**320.00**	16.40	36740
Hallite	18	360.00	**320.00**	30.00	19450
Hallite	652	375.00	**350.00**	19.00	36742
Hallite	18	400.00	**360.00**	30.00	19464
Hallite	16	394.50	**370.00**	8.10	47076
Hallite	16	404.50	**380.00**	8.10	47077
Hallite	18	420.00	**380.00**	30.00	19470
Hallite	18	440.00	**400.00**	30.00	19476
Hallite	18	500.00	**460.00**	30.00	19492

pacific seals

imperial rod seals

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	513	0.313	**0.063**	0.125	37868
Pacific	511	0.344	**0.094**	0.125	37869
Hallite	511	0.375	**0.125**	0.138	17032
Pacific	513	0.375	**0.125**	0.250	16959
Hallite	18	0.438	**0.188**	0.188	17448
Pacific	513	0.438	**0.188**	0.250	17005
Hallite	18	0.500	**0.188**	0.250	17912
Pacific	511	0.563	**0.188**	0.188	17267
Hallite	511	0.438	**0.188**	0.138	16880
Hallite	511	0.500	**0.250**	0.138	16879
Hallite	513	0.500	**0.250**	0.207	35702
Hallite	513	0.500	**0.250**	0.275	16899
Hallite	18	0.563	**0.250**	0.250	17159
Pacific	511	0.625	**0.250**	0.188	16923
Pacific	511	0.625	**0.250**	0.313	37774
Pacific	511	0.750	**0.250**	0.250	17087
Pacific	513	0.875	**0.250**	0.313	37907
Hallite	511	0.875	**0.250**	0.344	18882
Pacific	513	0.563	**0.313**	0.125	17058
Pacific	511	0.563	**0.313**	0.250	36420
Hallite	18	0.625	**0.313**	0.250	17773
Pacific	511	0.688	**0.313**	0.188	47062
Pacific	513	0.688	**0.313**	0.188	16947
Pacific	511	0.750	**0.313**	0.219	37890
Pacific	511	0.813	**0.313**	0.250	17225
Hallite	511	0.563	**0.313**	0.138	43539
Hallite	511	0.625	**0.375**	0.138	16889
Hallite	513	0.625	**0.375**	0.138	43491
Hallite	605	0.625	**0.375**	0.198	35368
Hallite	513	0.625	**0.375**	0.275	17168

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	511	0.750	**0.375**	0.188	16948
Hallite	511	0.750	**0.375**	0.207	43543
Hallite	18	0.750	**0.375**	0.281	17639
Pacific	511	0.750	**0.375**	0.313	17527
Hallite	605	0.750	**0.375**	0.313	36574
Hallite	18	0.750	**0.375**	0.375	17909
Hallite	511	0.875	**0.375**	0.275	17089
Pacific	513	1.000	**0.375**	0.313	37908
Hallite	513	0.687	**0.437**	0.275	17415
Hallite	18	0.625	**0.438**	0.150	17948
Pacific	511	0.688	**0.438**	0.125	17031
Pacific	511	0.750	**0.438**	0.156	15283
Pacific	511	0.813	**0.438**	0.188	17086
Hallite	18	0.813	**0.438**	0.281	17177
Pacific	513	0.875	**0.438**	0.219	37891
Pacific	511	0.938	**0.438**	0.250	17405
Pacific	511	0.938	**0.438**	0.375	37782
Pacific	511	1.063	**0.438**	0.313	37909
Hallite	611	0.750	**0.500**	0.125	35244
Hallite	511	0.750	**0.500**	0.138	16890
Hallite	18	0.750	**0.500**	0.188	17730
Hallite	605	0.750	**0.500**	0.188	35900
Hallite	601	0.750	**0.500**	0.250	35367
Hallite	513	0.750	**0.500**	0.275	16921
Hallite	605	0.775	**0.500**	0.200	17760
Hallite	18	0.813	**0.500**	0.219	17784
Hallite	601	0.875	**0.500**	0.197	17164
Hallite	511	0.875	**0.500**	0.207	17440
Hallite	513	0.875	**0.500**	0.275	35707
Hallite	18	0.875	**0.500**	0.281	17641

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	FR	0.875	**0.500**	0.281	16990
Hallite	513	0.875	**0.500**	3.440	16964
Hallite	601	1.000	**0.500**	0.250	17198
Hallite	511	1.000	**0.500**	0.275	17088
Hallite	18	1.000	**0.500**	0.375	17868
Hallite	513	1.000	**0.500**	0.413	17068
Pacific	511	1.125	**0.500**	0.313	17509
Pacific	513	1.250	**0.500**	0.375	37921
Hallite	18	0.750	**0.563**	0.096	17729
Hallite	611	0.813	**0.563**	0.125	35223
Hallite	605	0.813	**0.563**	0.188	35901
Pacific	605	0.875	**0.563**	0.219	35831
Pacific	511	0.938	**0.563**	0.188	17467
Hallite	18	0.938	**0.563**	0.281	17628
Pacific	511	1.063	**0.563**	0.250	17406
Hallite	18	1.063	**0.563**	0.375	18214
Hallite	511	0.813	**0.563**	0.138	17395
Hallite	611	0.875	**0.625**	0.125	35234
Hallite	511	0.875	**0.625**	0.138	16894
Hallite	620	0.875	**0.625**	0.160	35238
Hallite	18	0.875	**0.625**	0.188	17725
Hallite	605	0.875	**0.625**	0.188	35239
Hallite	513	0.875	**0.625**	0.207	35703
Hallite	605	0.875	**0.625**	0.240	17131
Hallite	620	0.875	**0.625**	0.250	16820
Hallite	513	0.875	**0.625**	0.275	16932
Hallite	605	0.900	**0.625**	0.200	17832
Hallite	16	0.917	**0.625**	0.126	34563
Hallite	601	1.000	**0.625**	0.190	17165
Hallite	511	1.000	**0.625**	0.207	16919

ROD SEALS - SINGLE ACTING

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	18	1.000	**0.625**	0.281	17866
Hallite	605	1.000	**0.625**	0.281	17434
Hallite	513	1.000	**0.625**	0.312	15849
Hallite	601	1.125	**0.625**	0.250	17214
Hallite	511	1.125	**0.625**	0.275	16955
Hallite	513	1.125	**0.625**	0.344	35708
Hallite	18	1.125	**0.625**	0.375	18018
Pacific	511	1.125	**0.625**	0.375	17989
Pacific	511	1.250	**0.625**	0.313	17060
Hallite	18	1.250	**0.625**	0.375	17843
Hallite	18	1.375	**0.625**	0.500	18272
Pacific	513	1.625	**0.625**	0.500	37976
Hallite	611	0.938	**0.688**	0.125	35240
Hallite	605	0.938	**0.688**	0.188	35902
Pacific	513	0.938	**0.688**	0.250	37772
Pacific	511	1.063	**0.688**	0.188	17304
Hallite	18	1.125	**0.688**	0.375	17993
Pacific	511	1.188	**0.688**	0.250	16956
Hallite	18	1.188	**0.688**	0.375	17882
Pacific	513	1.188	**0.688**	0.375	15856
Pacific	513	1.313	**0.688**	0.313	37910
Hallite	18	1.438	**0.688**	0.563	18485
Hallite	511	0.938	**0.688**	0.138	16901
Hallite	658	0.938	**0.750**	0.156	35241
Hallite	18	1.000	**0.750**	0.121	18736
Hallite	605	1.000	**0.750**	0.125	34461
Hallite	611	1.000	**0.750**	0.125	35242
Hallite	18	1.000	**0.750**	0.132	17579
Hallite	511	1.000	**0.750**	0.138	16900
Hallite	513	1.000	**0.750**	0.139	16863

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	18	1.000	**0.750**	0.188	17780
Hallite	605	1.000	**0.750**	0.188	35745
Hallite	605	1.000	**0.750**	0.250	17151
Hallite	620	1.000	**0.750**	0.250	35243
Hallite	513	1.000	**0.750**	0.275	16954
Hallite	416	1.048	**0.750**	0.126	36225
Pacific	511	1.063	**0.750**	0.156	16939
Hallite	18	1.094	**0.750**	0.281	17881
Pacific	FR	1.094	**0.750**	0.281	17223
Hallite	511	1.125	**0.750**	0.207	43544
Hallite	513	1.125	**0.750**	0.207	16933
Hallite	513	1.125	**0.750**	0.275	19527
Hallite	605	1.125	**0.750**	0.313	35212
Pacific	FRI	1.125	**0.750**	0.313	17491
Hallite	513	1.125	**0.750**	0.344	16986
Hallite	513	1.125	**0.750**	0.413	19526
Hallite	16	1.183	**0.750**	0.165	34564
Pacific	511	1.188	**0.750**	0.219	37893
Hallite	601	1.250	**0.750**	0.250	17219
Hallite	511	1.250	**0.750**	0.275	17865
Hallite	18	1.250	**0.750**	0.375	18137
Hallite	513	1.250	**0.750**	0.413	15857
Hallite	7	1.250	**0.750**	0.780	15249
Pacific	511	1.375	**0.750**	0.313	17996
Pacific	513	1.375	**0.750**	0.500	37783
Pacific	511	1.500	**0.750**	0.375	17922
Pacific	513	1.500	**0.750**	0.625	37803
Hallite	18	1.625	**0.750**	0.375	18599
Pacific	513	1.750	**0.750**	0.500	37977
Hallite	18	1.063	**0.813**	0.121	18125

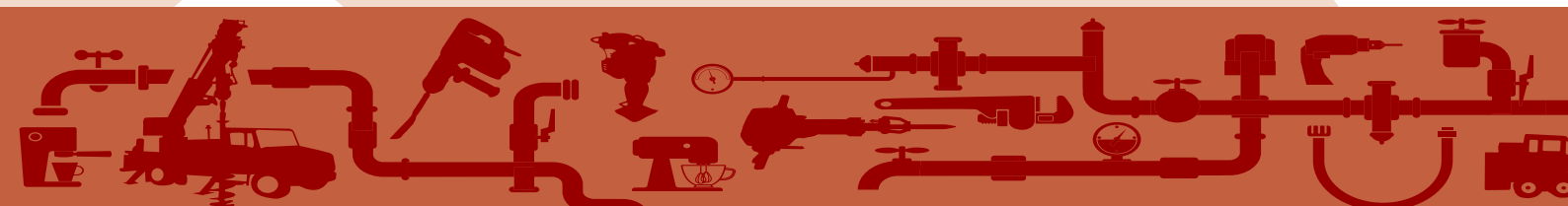
ROD SEALS - SINGLE ACTING

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	611	1.063	**0.813**	0.125	35213
Hallite	605	1.063	**0.813**	0.188	35903
Pacific	511	1.188	**0.813**	0.188	16941
Pacific	513	1.188	**0.813**	0.188	16980
Pacific	511	1.188	**0.813**	0.313	17059
Pacific	511	1.313	**0.813**	0.250	17071
Hallite	18	1.313	**0.813**	0.375	17707
Pacific	513	1.313	**0.813**	0.375	18014
Pacific	513	1.438	**0.813**	0.313	37911
Hallite	511	1.063	**0.813**	0.138	16976
Hallite	18	1.375	**0.860**	0.380	17947
Hallite	611	1.125	**0.875**	0.125	35214
Hallite	511	1.125	**0.875**	0.138	16962
Hallite	605	1.125	**0.875**	0.188	35215
Hallite	620	1.125	**0.875**	0.188	38243
Hallite	605	1.125	**0.875**	0.250	17265
Hallite	513	1.125	**0.875**	0.275	17244
Pacific	610	1.188	**0.875**	0.250	34811
Pacific	PIP	1.250	**0.875**	0.063	40295
Hallite	611	1.250	**0.875**	0.188	36617
Hallite	511	1.250	**0.875**	0.207	17023
Hallite	18	1.250	**0.875**	0.375	18085
Pacific	511	1.250	**0.875**	0.375	37775
Hallite	513	1.250	**0.875**	3.440	17404
Hallite	511	1.375	**0.875**	0.275	17108
Pacific	601	1.375	**0.875**	0.280	16416
Hallite	605	1.375	**0.875**	0.340	17480
Hallite	513	1.375	**0.875**	0.344	35709
Hallite	18	1.375	**0.875**	0.375	17694
Pacific	18	1.375	**0.875**	0.375	17622

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	FR	1.375	**0.875**	0.375	17347
Hallite	513	1.375	**0.875**	0.413	17907
Pacific	511	1.500	**0.875**	0.313	17412
Hallite	18	1.500	**0.875**	0.375	17727
Pacific	511	1.625	**0.875**	0.375	17582
Hallite	18	1.750	**0.875**	0.750	18734
Hallite	18	1.875	**0.875**	0.750	18659
Hallite	513	1.187	**0.937**	0.275	18282
Pacific	513	1.250	**0.938**	0.156	37874
Hallite	18	1.250	**0.938**	0.188	17817
Pacific	511	1.313	**0.938**	0.188	37886
Pacific	513	1.313	**0.938**	0.313	38349
Pacific	513	1.375	**0.938**	0.219	37894
Pacific	511	1.438	**0.938**	0.250	17334
Hallite	18	1.438	**0.938**	0.375	17728
Pacific	511	1.688	**0.938**	0.375	37923
Hallite	511	1.188	**0.938**	0.138	17508
Hallite	18	1.500	**0.984**	0.380	17709
Pacific	FR	1.500	**0.984**	0.380	17096
Hallite	611	1.125	**1.000**	0.125	36618
Hallite	605	1.240	**1.000**	0.188	17157
Hallite	18	1.250	**1.000**	0.121	17771
Hallite	611	1.250	**1.000**	0.125	35216
Hallite	511	1.250	**1.000**	0.138	16922
Hallite	605	1.250	**1.000**	0.188	17158
Hallite	620	1.250	**1.000**	0.188	16815
Hallite	513	1.250	**1.000**	0.207	19528
Hallite	605	1.250	**1.000**	0.250	17152
Hallite	620	1.250	**1.000**	0.250	35217
Hallite	513	1.250	**1.000**	0.275	17021



IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	416	1.287	**1.000**	0.126	36226
Hallite	605	1.313	**1.000**	0.219	35218
Pacific	513	1.313	**1.000**	0.250	17095
Hallite	511	1.313	**1.000**	0.172	15880
Hallite	605	1.315	**1.000**	0.224	17991
Hallite	511	1.375	**1.000**	0.207	43545
Hallite	513	1.375	**1.000**	0.207	16987
Hallite	18	1.375	**1.000**	0.250	17836
Hallite	605	1.375	**1.000**	0.250	16770
Hallite	620	1.375	**1.000**	0.250	16790
Pacific	FR	1.375	**1.000**	0.250	15329
Hallite	513	1.375	**1.000**	0.275	16251
Hallite	605	1.375	**1.000**	0.313	17321
Hallite	513	1.375	**1.000**	0.344	17050
Hallite	16	1.433	**1.000**	0.165	34565
Hallite	601	1.500	**1.000**	0.250	17257
Hallite	605	1.500	**1.000**	0.255	16771
Hallite	511	1.500	**1.000**	0.275	17038
Hallite	605	1.500	**1.000**	0.340	17258
Hallite	18	1.500	**1.000**	0.375	18175
Hallite	605	1.500	**1.000**	0.375	17281
Pacific	FR	1.500	**1.000**	0.375	17348
Hallite	513	1.500	**1.000**	0.413	17140
Hallite	513	1.500	**1.000**	0.413	43514
Hallite	7	1.500	**1.000**	0.750	14205
Hallite	7	1.500	**1.000**	0.750	44022
Hallite	511	1.625	**1.000**	0.344	17202
Hallite	513	1.625	**1.000**	0.413	18111
Hallite	18	1.625	**1.000**	0.438	17813
Pacific	FR	1.625	**1.000**	0.438	17141

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	513	1.625	**1.000**	0.550	17266
Hallite	18	1.750	**1.000**	0.375	18003
Pacific	FR	1.750	**1.000**	0.375	17445
Hallite	511	1.750	**1.000**	0.413	17674
Pacific	513	1.750	**1.000**	0.625	37804
Hallite	18	1.750	**1.000**	0.656	18560
Pacific	513	1.875	**1.000**	0.438	37944
Pacific	511	2.000	**1.000**	0.500	18455
Pacific	513	2.000	**1.000**	0.750	37839
Hallite	513	1.437	**1.062**	0.344	17227
Hallite	611	1.313	**1.063**	0.125	36619
Hallite	605	1.313	**1.063**	0.188	17285
Hallite	605	1.313	**1.063**	0.250	16508
Pacific	511	1.375	**1.063**	0.156	37875
Pacific	511	1.563	**1.063**	0.250	17373
Hallite	18	1.625	**1.063**	0.406	18121
Pacific	601	1.688	**1.063**	0.375	18866
Hallite	511	1.313	**1.063**	0.138	35256
Hallite	513	1.313	**1.063**	0.275	35257
Hallite	658	1.368	**1.125**	0.188	16782
Hallite	511	1.375	**1.125**	0.138	16934
Hallite	18	1.375	**1.125**	0.188	18967
Hallite	605	1.375	**1.125**	0.188	16772
Hallite	605	1.375	**1.125**	0.250	17505
Hallite	620	1.375	**1.125**	0.250	16791
Hallite	513	1.375	**1.125**	0.275	17298
Hallite	513	1.375	**1.125**	0.344	35704
Pacific	PIP	1.500	**1.125**	0.063	38341
Hallite	611	1.500	**1.125**	0.188	35220
Hallite	511	1.500	**1.125**	0.207	19531

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	18	1.500	**1.125**	0.219	17704
Hallite	620	1.500	**1.125**	0.250	16792
Hallite	513	1.500	**1.125**	0.275	19532
Hallite	605	1.500	**1.125**	0.313	17481
Hallite	513	1.500	**1.125**	0.344	17066
Pacific	513	1.500	**1.125**	0.375	17878
Pacific	605	1.563	**1.125**	0.325	35372
Pacific	FRI	1.563	**1.125**	0.343	17690
Hallite	605	1.625	**1.125**	0.250	17458
Hallite	511	1.625	**1.125**	0.275	43551
Hallite	513	1.625	**1.125**	0.275	17062
Hallite	18	1.625	**1.125**	0.375	17774
Pacific	FRI	1.625	**1.125**	0.375	17688
Hallite	513	1.625	**1.125**	0.413	15858
Hallite	7	1.625	**1.125**	0.750	14234
Hallite	7	1.625	**1.125**	0.750	44023
Hallite	511	1.750	**1.125**	0.344	17216
Pacific	513	1.750	**1.125**	0.375	17496
Hallite	605	1.750	**1.125**	0.397	17658
Hallite	18	1.750	**1.125**	0.438	18187
Hallite	513	1.750	**1.125**	0.550	17303
Pacific	511	1.875	**1.125**	0.375	17950
Pacific	513	2.000	**1.125**	0.500	38059
Pacific	513	2.125	**1.125**	0.500	37978
Hallite	513	1.438	**1.187**	0.275	17004
Pacific	511	1.438	**1.188**	0.125	16918
Hallite	511	1.438	**1.188**	0.188	19530
Hallite	611	1.563	**1.188**	0.188	35221
Pacific	513	1.563	**1.188**	0.250	17484
Hallite	605	1.563	**1.188**	0.250	16818

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	513	1.563	**1.188**	0.313	17646
Pacific	511	1.688	**1.188**	0.250	17473
Hallite	18	1.688	**1.188**	0.375	17915
Pacific	511	1.813	**1.188**	0.313	17538
Pacific	513	2.000	**1.188**	0.406	37939
Pacific	513	2.188	**1.188**	0.500	37979
Hallite	511	1.500	**1.188**	0.172	17966
Hallite	511	1.563	**1.188**	0.207	17029
Hallite	513	1.563	**1.188**	0.344	43500
Hallite	18	1.750	**1.234**	0.340	15826
Pacific	513	1.500	**1.250**	0.125	16963
Hallite	511	1.500	**1.250**	0.138	43541
Hallite	620	1.500	**1.250**	0.188	16793
Hallite	658	1.500	**1.250**	0.188	17238
Hallite	513	1.500	**1.250**	0.207	19533
Hallite	18	1.500	**1.250**	0.250	17946
Hallite	605	1.500	**1.250**	0.250	17186
Hallite	620	1.500	**1.250**	0.250	16794
Hallite	513	1.500	**1.250**	0.275	17049
Hallite	511	1.563	**1.250**	0.172	16250
Hallite	605	1.625	**1.250**	0.188	34458
Hallite	611	1.625	**1.250**	0.188	35222
Hallite	511	1.625	**1.250**	0.207	17037
Hallite	605	1.625	**1.250**	0.228	17322
Hallite	605	1.625	**1.250**	0.250	17332
Hallite	621	1.625	**1.250**	0.250	42278
Hallite	513	1.625	**1.250**	0.275	19534
Hallite	18	1.625	**1.250**	0.281	18337
Hallite	605	1.625	**1.250**	0.313	17399
Hallite	620	1.625	**1.250**	0.313	16795

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	513	1.625	**1.250**	0.344	17138
Hallite	513	1.625	**1.250**	0.413	15850
Hallite	18	1.625	**1.250**	0.500	17607
Pacific	416	1.670	**1.250**	0.126	47021
Hallite	601	1.750	**1.250**	0.250	16774
Hallite	605	1.750	**1.250**	0.250	19536
Hallite	511	1.750	**1.250**	0.275	17069
Hallite	18	1.750	**1.250**	0.280	17918
Hallite	18	1.750	**1.250**	0.375	17775
Hallite	601	1.750	**1.250**	0.375	17699
Hallite	605	1.750	**1.250**	0.375	17323
Pacific	FR	1.750	**1.250**	0.375	15337
Pacific	FRI	1.750	**1.250**	0.375	17634
Hallite	513	1.750	**1.250**	0.413	17155
Hallite	7	1.750	**1.250**	0.750	15238
Hallite	18	1.875	**1.250**	0.313	17778
Pacific	FR	1.875	**1.250**	0.313	17204
Hallite	511	1.875	**1.250**	0.344	43563
Hallite	513	1.875	**1.250**	0.344	17217
Pacific	513	1.875	**1.250**	0.375	18152
Hallite	605	1.875	**1.250**	0.397	17367
Hallite	18	1.875	**1.250**	0.438	18265
Pacific	FR	1.875	**1.250**	0.438	17478
Pacific	FRI	1.875	**1.250**	0.500	17501
Hallite	513	1.875	**1.250**	0.550	17352
Hallite	511	2.000	**1.250**	0.413	17713
Hallite	18	2.000	**1.250**	0.469	17913
Hallite	513	2.000	**1.250**	0.550	19538
Pacific	513	2.000	**1.250**	0.625	37805
Pacific	513	2.063	**1.250**	0.406	37940

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	511	2.125	**1.250**	0.438	37945
Pacific	511	2.250	**1.250**	0.500	18274
Hallite	18	2.250	**1.250**	0.625	18858
Pacific	513	2.500	**1.250**	0.625	38012
Pacific	511	1.563	**1.313**	0.125	16245
Hallite	18	1.625	**1.313**	0.148	17919
Pacific	513	1.688	**1.313**	0.188	37887
Pacific	511	1.813	**1.313**	0.250	17530
Pacific	511	2.063	**1.313**	0.375	37924
Pacific	511	2.063	**1.313**	0.438	37806
Pacific	513	2.313	**1.313**	0.500	37980
Hallite	511	1.625	**1.375**	0.138	16985
Hallite	658	1.625	**1.375**	0.188	16784
Hallite	513	1.625	**1.375**	0.207	19535
Hallite	605	1.625	**1.375**	0.250	17187
Hallite	513	1.625	**1.375**	0.275	17107
Hallite	18	1.688	**1.375**	0.148	17944
Hallite	511	1.688	**1.375**	0.172	15848
Hallite	605	1.690	**1.375**	0.224	18079
Pacific	PIP	1.750	**1.375**	0.063	39615
Hallite	605	1.750	**1.375**	0.188	34460
Hallite	611	1.750	**1.375**	0.188	35225
Hallite	511	1.750	**1.375**	0.207	17051
Pacific	FRI	1.750	**1.375**	0.250	17873
Hallite	513	1.750	**1.375**	0.275	19537
Hallite	18	1.750	**1.375**	0.281	18267
Pacific	FR	1.750	**1.375**	0.281	17340
Hallite	605	1.750	**1.375**	0.313	17259
Hallite	620	1.750	**1.375**	0.313	17900
Hallite	513	1.750	**1.375**	0.344	17169

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	513	1.750	**1.375**	0.344	43501
Hallite	601	1.750	**1.375**	0.375	17239
Hallite	513	1.750	**1.375**	0.413	17170
Hallite	511	1.875	**1.375**	0.275	17156
Hallite	605	1.875	**1.375**	0.375	17659
Hallite	621	1.875	**1.375**	0.375	36620
Hallite	18	1.875	**1.375**	0.380	17777
Hallite	513	1.875	**1.375**	0.413	15859
Hallite	601	2.000	**1.375**	0.265	16511
Pacific	FR	2.000	**1.375**	0.313	15342
Pacific	FR	2.000	**1.375**	0.313	15714
Hallite	511	2.000	**1.375**	0.344	17300
Hallite	18	2.000	**1.375**	0.375	17959
Hallite	605	2.000	**1.375**	0.397	17324
Hallite	18	2.000	**1.375**	0.438	18188
Pacific	FR	2.000	**1.375**	0.438	17560
Hallite	601	2.000	**1.375**	0.500	17795
Pacific	601	2.000	**1.375**	0.500	17222
Hallite	513	2.000	**1.375**	0.550	17409
Hallite	7	2.000	**1.375**	0.969	15187
Hallite	511	2.125	**1.375**	0.413	18374
Pacific	513	2.250	**1.375**	0.438	37946
Pacific	511	2.375	**1.375**	0.500	37981
Hallite	513	1.687	**1.437**	0.275	35705
Pacific	511	1.688	**1.438**	0.125	17110
Pacific	513	1.813	**1.438**	0.188	37888
Pacific	513	1.813	**1.438**	0.313	37776
Hallite	605	1.813	**1.438**	0.313	16775
Pacific	511	1.938	**1.438**	0.250	17463
Hallite	18	1.938	**1.438**	0.375	18434

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	513	2.188	**1.438**	0.375	37925
Pacific	513	2.250	**1.438**	0.406	37941
Hallite	18	2.000	**1.484**	0.340	17992
Hallite	511	1.750	**1.500**	0.014	17022
Pacific	PIP	1.750	**1.500**	0.063	42699
Hallite	658	1.750	**1.500**	0.188	16785
Hallite	605	1.750	**1.500**	0.250	17188
Hallite	513	1.750	**1.500**	0.275	17153
Hallite	416	1.787	**1.500**	0.126	36227
Pacific	513	1.813	**1.500**	0.313	17847
Hallite	18	1.875	**1.500**	0.172	18163
Hallite	605	1.875	**1.500**	0.188	35904
Hallite	611	1.875	**1.500**	0.188	35226
Hallite	511	1.875	**1.500**	0.207	43546
Hallite	513	1.875	**1.500**	0.207	17067
Hallite	605	1.875	**1.500**	0.250	17211
Hallite	621	1.875	**1.500**	0.250	18170
Pacific	FR	1.875	**1.500**	0.250	15340
Hallite	513	1.875	**1.500**	0.275	15851
Pacific	513	1.875	**1.500**	0.281	37777
Hallite	658	1.875	**1.500**	0.281	17260
Hallite	605	1.875	**1.500**	0.313	17261
Hallite	621	1.875	**1.500**	0.313	18199
Hallite	513	1.875	**1.500**	0.344	17052
Hallite	605	1.875	**1.500**	0.375	17262
Hallite	513	1.875	**1.500**	0.413	17201
Hallite	513	1.875	**1.500**	0.447	35259
Hallite	416	1.921	**1.500**	0.165	36228
Hallite	601	2.000	**1.500**	0.250	17384
Hallite	605	2.000	**1.500**	0.250	17433

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	511	2.000	**1.500**	0.275	17226
Hallite	18	2.000	**1.500**	0.280	17840
Hallite	605	2.000	**1.500**	0.340	17368
Hallite	513	2.000	**1.500**	0.344	19539
Hallite	18	2.000	**1.500**	0.375	17842
Hallite	605	2.000	**1.500**	0.375	17400
Hallite	621	2.000	**1.500**	0.375	18370
Pacific	FR	2.000	**1.500**	0.375	15344
Pacific	FRI	2.000	**1.500**	0.375	17892
Hallite	513	2.000	**1.500**	0.413	17341
Hallite	18	2.000	**1.500**	0.656	18863
Hallite	7	2.000	**1.500**	0.750	15229
Hallite	7	2.000	**1.500**	0.750	44025
Pacific	UBR	2.070	**1.500**	0.116	36164
Hallite	16	2.110	**1.500**	0.250	34566
Hallite	605	2.125	**1.500**	0.281	35229
Hallite	18	2.125	**1.500**	0.313	17886
Hallite	511	2.125	**1.500**	0.344	17410
Hallite	605	2.125	**1.500**	0.375	17571
Hallite	605	2.125	**1.500**	0.397	17369
Hallite	513	2.125	**1.500**	0.413	18384
Hallite	18	2.125	**1.500**	0.438	18277
Pacific	FRI	2.125	**1.500**	0.438	17625
Hallite	513	2.125	**1.500**	0.550	17526
Hallite	18	2.125	**1.500**	0.688	18930
Hallite	7	2.125	**1.500**	0.969	15269
Hallite	18	2.188	**1.500**	0.438	17945
Pacific	FR	2.188	**1.500**	0.438	17437
Hallite	511	2.250	**1.500**	0.413	17749
Hallite	18	2.250	**1.500**	0.469	18005

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	513	2.250	**1.500**	0.550	17938
Hallite	18	2.250	**1.500**	0.563	17845
Hallite	513	2.250	**1.500**	0.688	17939
Hallite	511	2.500	**1.500**	0.550	18276
Hallite	513	2.500	**1.500**	0.750	35260
Pacific	511	1.813	**1.563**	0.125	16958
Pacific	513	2.313	**1.563**	0.375	37926
Hallite	511	1.875	**1.625**	0.138	17039
Hallite	513	1.875	**1.625**	0.207	35706
Hallite	605	1.875	**1.625**	0.250	17189
Hallite	513	1.875	**1.625**	0.275	17172
Pacific	PIP	2.000	**1.625**	0.063	38342
Hallite	611	2.000	**1.625**	0.188	35230
Hallite	511	2.000	**1.625**	0.207	17139
Hallite	513	2.000	**1.625**	0.275	16719
Hallite	18	2.000	**1.625**	0.276	17867
Pacific	FRI	2.000	**1.625**	0.276	17925
Hallite	605	2.000	**1.625**	0.281	35231
Hallite	605	2.000	**1.625**	0.313	16777
Hallite	513	2.000	**1.625**	0.344	17675
Hallite	605	2.000	**1.625**	0.375	17572
Hallite	513	2.000	**1.625**	0.413	17248
Hallite	601	2.125	**1.625**	0.250	16423
Pacific	513	2.125	**1.625**	0.375	15860
Hallite	605	2.125	**1.625**	0.375	35232
Hallite	513	2.125	**1.625**	0.413	43517
Hallite	7	2.125	**1.625**	0.750	14130
Hallite	7	2.125	**1.625**	0.750	44026
Hallite	511	2.250	**1.625**	0.344	15866
Pacific	513	2.250	**1.625**	0.375	18436

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	18	2.250	**1.625**	0.438	17914
Pacific	513	2.250	**1.625**	0.500	16292
Hallite	18	2.250	**1.625**	0.750	18036
Hallite	511	2.375	**1.625**	0.413	17998
Hallite	511	2.375	**1.625**	0.413	43568
Hallite	18	2.375	**1.625**	0.625	18802
Pacific	513	2.375	**1.625**	0.625	18553
Pacific	511	1.938	**1.688**	0.125	37877
Pacific	FR	1.938	**1.688**	0.188	17295
Pacific	511	2.063	**1.688**	0.188	17411
Hallite	18	2.063	**1.688**	0.313	18486
Pacific	513	2.500	**1.688**	0.406	37942
Hallite	18	2.250	**1.730**	0.340	18328
Hallite	511	2.000	**1.750**	0.138	17048
Hallite	605	2.000	**1.750**	0.250	17190
Hallite	513	2.000	**1.750**	0.275	17218
Hallite	416	2.037	**1.750**	0.126	36229
Hallite	605	2.065	**1.750**	0.224	18119
Hallite	611	2.125	**1.750**	0.188	16796
Hallite	511	2.125	**1.750**	0.207	17154
Hallite	513	2.125	**1.750**	0.250	43502
Hallite	605	2.125	**1.750**	0.250	17326
Hallite	610	2.125	**1.750**	0.250	16514
Hallite	621	2.125	**1.750**	0.250	18650
Pacific	FR	2.125	**1.750**	0.250	15351
Hallite	18	2.125	**1.750**	0.276	17883
Pacific	FRI	2.125	**1.750**	0.290	17689
Hallite	605	2.125	**1.750**	0.313	17282
Hallite	513	2.125	**1.750**	0.344	16252
Hallite	605	2.125	**1.750**	0.375	17376

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	610	2.125	**1.750**	0.375	16515
Hallite	621	2.125	**1.750**	0.375	18651
Hallite	513	2.125	**1.750**	0.413	17299
Hallite	416	2.171	**1.750**	0.165	36230
Pacific	511	2.188	**1.750**	0.219	37895
Hallite	601	2.250	**1.750**	0.250	17377
Hallite	605	2.250	**1.750**	0.250	34459
Hallite	511	2.250	**1.750**	0.275	43552
Hallite	513	2.250	**1.750**	0.275	17342
Hallite	18	2.250	**1.750**	0.313	17916
Hallite	605	2.250	**1.750**	0.340	17370
Hallite	18	2.250	**1.750**	0.375	17902
Hallite	601	2.250	**1.750**	0.375	16516
Hallite	605	2.250	**1.750**	0.375	17401
Hallite	621	2.250	**1.750**	0.375	18378
Pacific	FR	2.250	**1.750**	0.375	17673
Pacific	FR	2.250	**1.750**	0.375	18027
Hallite	513	2.250	**1.750**	0.413	17470
Hallite	605	2.250	**1.750**	0.500	17614
Hallite	7	2.250	**1.750**	0.750	15235
Hallite	7	2.250	**1.750**	0.750	44027
Pacific	UBR	2.260	**1.750**	0.116	36162
Pacific	UBR	2.320	**1.750**	0.116	36163
Hallite	16	2.360	**1.750**	0.250	34567
Hallite	601	2.375	**1.750**	0.265	16517
Hallite	511	2.375	**1.750**	0.344	17525
Hallite	513	2.375	**1.750**	0.413	18118
Hallite	18	2.375	**1.750**	0.438	18073
Pacific	513	2.375	**1.750**	0.438	38102
Hallite	605	2.375	**1.750**	0.438	18029

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	FRI	2.375	**1.750**	0.438	18141
Hallite	513	2.375	**1.750**	0.550	17626
Hallite	601	2.375	**1.750**	0.563	17880
Hallite	7	2.375	**1.750**	0.937	36511
Pacific	FR	2.438	**1.750**	0.438	15355
Hallite	511	2.500	**1.750**	0.413	17956
Hallite	18	2.500	**1.750**	0.500	18403
Hallite	513	2.500	**1.750**	0.550	18054
Hallite	513	2.500	**1.750**	0.688	18053
Pacific	511	2.563	**1.750**	0.406	37943
Pacific	513	2.625	**1.750**	0.438	37970
Pacific	511	2.750	**1.750**	0.500	18442
Hallite	18	2.750	**1.750**	0.625	18213
Hallite	513	2.750	**1.750**	0.825	19549
Pacific	511	3.000	**1.750**	0.625	38013
Hallite	18	3.000	**1.813**	1.000	19088
Pacific	513	3.063	**1.813**	0.625	38014
Hallite	511	2.125	**1.875**	0.138	17146
Hallite	513	2.125	**1.875**	0.207	19541
Hallite	513	2.125	**1.875**	0.275	19540
Hallite	511	2.250	**1.875**	0.188	17171
Hallite	605	2.250	**1.875**	0.375	17616
Hallite	513	2.250	**1.875**	0.413	17408
Hallite	511	2.375	**1.875**	0.275	18240
Hallite	18	2.375	**1.875**	0.375	18291
Hallite	605	2.375	**1.875**	0.375	17801
Hallite	513	2.375	**1.875**	0.413	16257
Hallite	511	2.500	**1.875**	0.344	17590
Hallite	18	2.500	**1.875**	0.375	17863
Pacific	FR	2.500	**1.875**	0.375	17851

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	605	2.500	**1.875**	0.397	17371
Hallite	18	2.500	**1.875**	0.438	18074
Hallite	513	2.500	**1.875**	0.550	17702
Pacific	511	2.625	**1.875**	0.375	18554
Hallite	18	2.625	**1.875**	0.625	18493
Pacific	513	2.625	**1.875**	0.625	37807
Pacific	513	2.750	**1.875**	0.438	37971
Pacific	511	2.875	**1.875**	0.500	37982
Pacific	513	3.000	**1.875**	0.875	37846
Pacific	513	3.125	**1.875**	0.625	38015
Pacific	513	3.125	**1.875**	1.000	37848
Hallite	601	2.438	**1.938**	0.290	16425
Hallite	18	2.438	**1.938**	0.375	18506
Pacific	FRI	2.500	**1.984**	0.360	17926
Hallite	511	2.250	**2.000**	0.138	17070
Hallite	513	2.250	**2.000**	0.207	19543
Hallite	605	2.250	**2.000**	0.250	17212
Hallite	513	2.250	**2.000**	0.275	17302
Pacific	FRI	2.313	**2.000**	0.250	18429
Hallite	511	2.375	**2.000**	0.207	17489
Hallite	601	2.375	**2.000**	0.250	17242
Hallite	605	2.375	**2.000**	0.250	17687
Hallite	513	2.375	**2.000**	0.275	19544
Hallite	605	2.375	**2.000**	0.313	17327
Hallite	513	2.375	**2.000**	0.344	15853
Hallite	605	2.375	**2.000**	0.375	17599
Hallite	621	2.375	**2.000**	0.375	18411
Hallite	513	2.375	**2.000**	0.413	17469
Hallite	605	2.394	**2.000**	0.268	18190
Hallite	416	2.421	**2.000**	0.165	36231

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	653	2.424	**2.000**	0.154	35751
Pacific	UBR	2.498	**2.000**	0.116	36160
Pacific	PIP	2.500	**2.000**	0.125	38343
Hallite	605	2.500	**2.000**	0.250	35233
Hallite	511	2.500	**2.000**	0.275	43553
Hallite	513	2.500	**2.000**	0.275	17471
Hallite	605	2.500	**2.000**	0.313	17482
Pacific	FR	2.500	**2.000**	0.313	17420
Hallite	605	2.500	**2.000**	0.340	17372
Hallite	18	2.500	**2.000**	0.375	17884
Hallite	601	2.500	**2.000**	0.375	17453
Hallite	605	2.500	**2.000**	0.375	17454
Hallite	621	2.500	**2.000**	0.375	18412
Pacific	FRI	2.500	**2.000**	0.375	17756
Hallite	513	2.500	**2.000**	0.413	17535
Hallite	7	2.500	**2.000**	0.750	15225
Hallite	7	2.500	**2.000**	0.750	44028
Hallite	605	2.500	**2.000**	0.781	19546
Pacific	UBR	2.560	**2.000**	0.116	36161
Hallite	416	2.610	**2.000**	0.250	34568
Hallite	601	2.625	**2.000**	0.313	17490
Hallite	605	2.625	**2.000**	0.313	17499
Pacific	FR	2.625	**2.000**	0.313	17928
Hallite	511	2.625	**2.000**	0.344	17643
Pacific	513	2.625	**2.000**	0.375	18261
Hallite	605	2.625	**2.000**	0.397	17896
Hallite	18	2.625	**2.000**	0.438	18226
Pacific	FRI	2.625	**2.000**	0.438	17920
Hallite	601	2.625	**2.000**	0.500	16518
Hallite	605	2.625	**2.000**	0.500	17802

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	513	2.625	**2.000**	0.550	17767
Hallite	601	2.625	**2.000**	0.563	17693
Hallite	513	2.625	**2.000**	0.619	19548
Pacific	7	2.625	**2.000**	0.905	15253
Hallite	7	2.625	**2.000**	1.000	15106
Pacific	FR	2.750	**2.000**	0.375	15365
Hallite	511	2.750	**2.000**	0.413	18058
Hallite	18	2.750	**2.000**	0.438	18086
Pacific	FRI	2.750	**2.000**	0.438	17964
Hallite	513	2.750	**2.000**	0.550	18171
Hallite	18	2.750	**2.000**	0.563	18049
Pacific	FR	2.750	**2.000**	0.563	18101
Hallite	605	2.750	**2.000**	0.625	17455
Hallite	513	2.750	**2.000**	0.688	18172
Pacific	511	2.875	**2.000**	0.438	18827
Hallite	511	3.000	**2.000**	0.550	18528
Hallite	513	3.000	**2.000**	0.825	16349
Pacific	513	3.250	**2.000**	0.625	38016
Pacific	513	3.500	**2.000**	1.125	37851
Pacific	513	4.000	**2.000**	1.000	38070
Pacific	513	2.375	**2.063**	0.156	37885
Pacific	513	2.438	**2.063**	0.188	37889
Pacific	513	2.500	**2.063**	0.219	37896
Pacific	513	2.813	**2.063**	0.375	37935
Pacific	513	2.375	**2.125**	0.125	17200
Hallite	513	2.375	**2.125**	0.275	42280
Pacific	PIP	2.500	**2.125**	0.063	40049
Hallite	511	2.500	**2.125**	0.207	17215
Hallite	513	2.500	**2.125**	0.207	43503
Hallite	601	2.500	**2.125**	0.250	16519

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	513	2.500	**2.125**	0.275	17593
Pacific	513	2.500	**2.125**	0.313	17670
Hallite	605	2.500	**2.125**	0.375	16781
Hallite	513	2.500	**2.125**	0.413	17524
Hallite	511	2.625	**2.125**	0.275	43554
Hallite	513	2.625	**2.125**	0.275	17511
Hallite	601	2.625	**2.125**	0.375	17602
Hallite	621	2.625	**2.125**	0.375	36621
Pacific	FR	2.625	**2.125**	0.375	18300
Hallite	513	2.625	**2.125**	0.413	19550
Hallite	511	2.750	**2.125**	0.344	17703
Pacific	FR	2.750	**2.125**	0.375	18091
Hallite	513	2.750	**2.125**	0.550	17862
Hallite	513	2.750	**2.125**	0.688	19551
Hallite	511	2.875	**2.125**	0.413	18388
Hallite	18	2.875	**2.125**	0.563	18503
Pacific	FR	2.875	**2.125**	0.563	17788
Pacific	513	2.875	**2.125**	0.625	18953
Pacific	511	3.000	**2.125**	0.438	37972
Hallite	511	3.125	**2.125**	0.550	18583
Hallite	513	2.563	**2.188**	0.375	19547
Pacific	513	3.000	**2.188**	0.406	37968
Hallite	513	2.500	**2.250**	0.275	42279
Hallite	511	2.625	**2.250**	0.207	17621
Hallite	605	2.625	**2.250**	0.335	17831
Hallite	513	2.625	**2.250**	0.344	16253
Hallite	513	2.625	**2.250**	0.413	17575
Hallite	511	2.750	**2.250**	0.275	17550
Hallite	605	2.750	**2.250**	0.340	17565
Hallite	18	2.750	**2.250**	0.375	17888

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	601	2.750	**2.250**	0.375	17577
Hallite	605	2.750	**2.250**	0.375	17566
Hallite	621	2.750	**2.250**	0.375	18580
Pacific	FR	2.750	**2.250**	0.375	15366
Pacific	FRI	2.750	**2.250**	0.375	17446
Hallite	513	2.750	**2.250**	0.413	17683
Hallite	513	2.750	**2.250**	0.563	35261
Hallite	7	2.750	**2.250**	0.750	15180
Hallite	511	2.875	**2.250**	0.344	43564
Hallite	513	2.875	**2.250**	0.344	17768
Hallite	18	2.875	**2.250**	0.438	18087
Hallite	513	2.875	**2.250**	0.550	17955
Hallite	7	2.875	**2.250**	1.000	15120
Pacific	UBR	2.930	**2.250**	0.190	38213
Hallite	18	3.000	**2.250**	0.375	18147
Hallite	511	3.000	**2.250**	0.413	18186
Hallite	18	3.000	**2.250**	0.500	18145
Pacific	FR	3.000	**2.250**	0.500	18142
Hallite	605	3.000	**2.250**	0.511	17697
Hallite	513	3.000	**2.250**	0.550	18322
Hallite	18	3.000	**2.250**	0.563	18178
Hallite	513	3.000	**2.250**	0.625	18323
Hallite	7	3.000	**2.250**	1.156	14236
Pacific	513	3.125	**2.250**	0.375	37836
Pacific	511	3.250	**2.250**	0.500	18914
Pacific	FRI	3.250	**2.250**	0.875	18365
Pacific	513	3.375	**2.250**	0.875	37847
Pacific	513	3.500	**2.250**	0.625	38017
Hallite	18	2.750	**2.313**	0.375	18624
Pacific	FR	2.750	**2.313**	0.375	17787

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	511	2.625	**2.375**	0.138	17794
Pacific	513	2.625	**2.375**	0.250	37778
Hallite	511	2.750	**2.375**	0.207	16254
Pacific	513	2.750	**2.375**	0.250	18105
Hallite	605	2.750	**2.375**	0.375	17724
Hallite	513	2.750	**2.375**	0.413	15854
Hallite	511	2.875	**2.375**	0.275	15861
Pacific	601	2.875	**2.375**	0.375	34406
Hallite	605	2.875	**2.375**	0.375	16614
Hallite	621	2.875	**2.375**	0.375	18878
Hallite	513	2.875	**2.375**	0.413	15862
Hallite	601	3.000	**2.375**	0.313	17661
Hallite	511	3.000	**2.375**	0.344	43565
Hallite	513	3.000	**2.375**	0.344	17852
Hallite	18	3.000	**2.375**	0.469	18126
Pacific	511	3.000	**2.375**	0.500	37800
Pacific	513	3.000	**2.375**	0.500	17967A
Pacific	605	3.000	**2.375**	0.500	43007
Hallite	513	3.000	**2.375**	0.550	17967
Pacific	601	3.000	**2.375**	0.563	17691
Pacific	601	3.000	**2.375**	0.563	18723
Hallite	7	3.000	**2.375**	0.937	44029
Hallite	7	3.000	**2.375**	0.938	14237
Pacific	511	3.125	**2.375**	0.375	18377
Pacific	513	3.125	**2.375**	0.500	18742
Hallite	18	3.125	**2.375**	0.563	18225
Hallite	513	3.125	**2.375**	0.688	19558
Pacific	513	3.375	**2.375**	0.500	37983
Pacific	513	3.625	**2.375**	0.625	38018
Pacific	513	3.188	**2.438**	0.375	37936

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	18	3.000	**2.484**	0.350	18534
Hallite	18	3.125	**2.493**	0.490	18149
Pacific	511	2.750	**2.500**	0.125	16247
Pacific	511	2.750	**2.500**	0.250	37779
Hallite	513	2.750	**2.500**	0.275	43497
Hallite	511	2.875	**2.500**	0.207	17287
Hallite	513	2.875	**2.500**	0.275	43505
Hallite	658	2.875	**2.500**	0.281	36783
Pacific	513	2.875	**2.500**	0.313	17893
Hallite	605	2.875	**2.500**	0.313	17723
Hallite	605	2.875	**2.500**	0.375	18022
Hallite	513	2.875	**2.500**	0.413	17604
Hallite	601	2.894	**2.500**	0.268	18236
Hallite	416	2.921	**2.500**	0.165	36232
Hallite	653	2.924	**2.500**	0.154	35752
Pacific	513	2.938	**2.500**	0.219	37900
Hallite	605	2.938	**2.500**	0.284	16821
Pacific	PIP	3.000	**2.500**	0.125	38339
Hallite	511	3.000	**2.500**	0.223	36543
Hallite	605	3.000	**2.500**	0.250	34462
Hallite	511	3.000	**2.500**	0.275	17663
Hallite	605	3.000	**2.500**	0.285	17520
Hallite	18	3.000	**2.500**	0.313	18020
Pacific	FRI	3.000	**2.500**	0.313	17854
Hallite	513	3.000	**2.500**	0.344	19556
Hallite	601	3.000	**2.500**	0.375	17731
Hallite	605	3.000	**2.500**	0.375	17654
Hallite	621	3.000	**2.500**	0.375	18612
Hallite	513	3.000	**2.500**	0.413	17816
Hallite	7	3.000	**2.500**	0.875	14238

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	FRI	3.063	**2.500**	0.438	18109
Hallite	16	3.110	**2.500**	0.250	34569
Hallite	601	3.125	**2.500**	0.313	17700
Hallite	511	3.125	**2.500**	0.344	17908
Pacific	FR	3.125	**2.500**	0.375	18114
Hallite	513	3.125	**2.500**	0.413	19559
Hallite	18	3.125	**2.500**	0.438	18197
Hallite	605	3.125	**2.500**	0.500	17987
Hallite	621	3.125	**2.500**	0.500	43049
Hallite	513	3.125	**2.500**	0.550	18030
Hallite	7	3.125	**2.500**	1.000	15259
Hallite	7	3.125	**2.500**	1.000	44030
Pacific	UBR	3.180	**2.500**	0.195	38214
Pacific	PIP	3.250	**2.500**	0.188	42520
Hallite	511	3.250	**2.500**	0.413	18304
Hallite	513	3.250	**2.500**	0.550	18414
Hallite	18	3.250	**2.500**	0.563	18211
Pacific	FRI	3.250	**2.500**	0.563	18449
Hallite	18	3.250	**2.500**	0.625	18262
Hallite	605	3.250	**2.500**	0.625	18350
Hallite	513	3.250	**2.500**	0.688	18415
Pacific	513	3.250	**2.500**	0.938	37808
Hallite	7	3.250	**2.500**	1.094	14239
Pacific	511	3.375	**2.500**	0.438	38103
Hallite	18	3.375	**2.500**	0.625	18150
Hallite	511	3.500	**2.500**	0.550	18944
Hallite	18	3.500	**2.500**	0.750	18405
Pacific	FR	3.500	**2.500**	0.750	18313
Hallite	513	3.500	**2.500**	0.825	19562
Pacific	513	3.625	**2.500**	0.563	38009

IMPERIAL

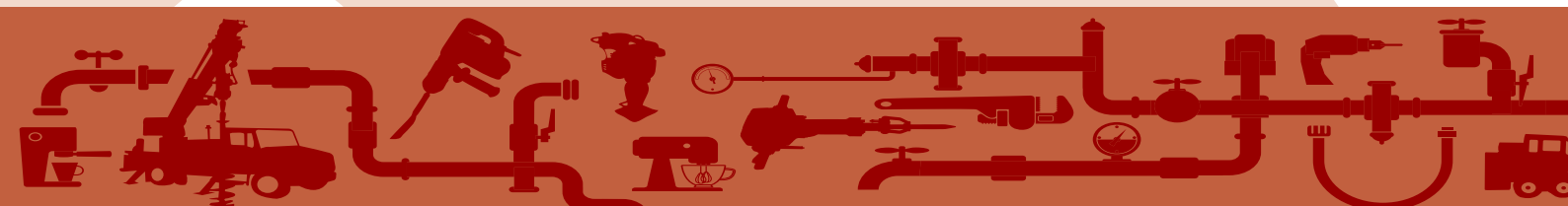
BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	511	3.750	**2.500**	0.625	38019
Hallite	18	3.750	**2.500**	1.000	18949
Pacific	511	3.000	**2.563**	0.219	37901
Pacific	513	2.875	**2.625**	0.125	37878
Hallite	511	3.000	**2.625**	0.207	17343
Hallite	601	3.000	**2.625**	0.250	36564
Hallite	513	3.000	**2.625**	0.275	19555
Hallite	513	3.000	**2.625**	0.344	19557
Hallite	605	3.000	**2.625**	0.375	16613
Hallite	513	3.000	**2.625**	0.413	17701
Hallite	511	3.125	**2.625**	0.275	16258
Pacific	513	3.125	**2.625**	0.375	15863
Hallite	601	3.125	**2.625**	0.375	17615
Hallite	605	3.125	**2.625**	0.500	35246
Hallite	511	3.250	**2.625**	0.344	18113
Hallite	18	3.250	**2.625**	0.500	18212
Pacific	513	3.250	**2.625**	0.500	18177
Hallite	601	3.250	**2.625**	0.563	18686
Pacific	601	3.250	**2.625**	0.563	17551
Hallite	605	3.250	**2.625**	0.625	18189
Pacific	513	3.375	**2.625**	0.375	18544
Hallite	18	3.375	**2.625**	0.563	15843
Pacific	FR	3.375	**2.625**	0.563	18772
Hallite	513	3.375	**2.625**	0.688	16315
Pacific	513	3.750	**2.625**	0.563	38010
Pacific	513	3.500	**2.688**	0.406	37969
Hallite	511	3.000	**2.750**	0.138	16248
Hallite	511	3.125	**2.750**	0.207	43547
Hallite	513	3.125	**2.750**	0.207	17394
Hallite	513	3.125	**2.750**	0.344	19560

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	605	3.125	**2.750**	0.375	17545
Hallite	513	3.125	**2.750**	0.413	17750
Hallite	416	3.171	**2.750**	0.165	36233
Hallite	653	3.174	**2.750**	0.154	35753
Hallite	511	3.250	**2.750**	0.275	43555
Hallite	513	3.250	**2.750**	0.275	17769
Hallite	18	3.250	**2.750**	0.375	18268
Hallite	605	3.250	**2.750**	0.375	17655
Hallite	621	3.250	**2.750**	0.375	18951
Pacific	FR	3.250	**2.750**	0.375	18153
Hallite	513	3.250	**2.750**	0.413	17937
Pacific	513	3.250	**2.750**	0.500	18749
Hallite	7	3.250	**2.750**	0.750	15251
Hallite	416	3.344	**2.750**	0.248	40054
Hallite	511	3.375	**2.750**	0.344	18032
Hallite	605	3.375	**2.750**	0.375	16612
Hallite	513	3.375	**2.750**	0.413	19561
Pacific	FR	3.375	**2.750**	0.438	18176
Hallite	605	3.375	**2.750**	0.500	18071
Hallite	513	3.375	**2.750**	0.550	18143
Hallite	601	3.375	**2.750**	0.563	18060
Hallite	7	3.375	**2.750**	1.000	15268
Hallite	7	3.375	**2.750**	1.000	44031
Pacific	UBR	3.430	**2.750**	0.195	38215
Pacific	FR	3.500	**2.750**	0.375	18314
Hallite	511	3.500	**2.750**	0.413	18408
Hallite	18	3.500	**2.750**	0.500	18258
Hallite	513	3.500	**2.750**	0.550	18524
Hallite	18	3.500	**2.750**	0.563	18595
Pacific	FR	3.500	**2.750**	0.563	18336

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	605	3.500	**2.750**	0.625	17611
Hallite	513	3.500	**2.750**	0.688	18525
Hallite	7	3.500	**2.750**	1.094	15141
Hallite	18	3.625	**2.750**	0.750	18956
Hallite	18	3.750	**2.750**	0.500	18761
Hallite	511	3.750	**2.750**	0.550	19033
Hallite	18	3.750	**2.750**	0.750	18498
Hallite	511	4.000	**2.750**	0.688	19030
Pacific	513	4.000	**2.750**	1.000	37831
Pacific	513	4.250	**2.750**	1.125	37853
Hallite	511	3.125	**2.875**	0.138	17475
Hallite	513	3.125	**2.875**	0.275	35262
Hallite	511	3.250	**2.875**	0.207	17423
Hallite	601	3.250	**2.875**	0.250	16432
Hallite	605	3.250	**2.875**	0.375	16611
Hallite	513	3.250	**2.875**	0.413	16255
Hallite	511	3.375	**2.875**	0.275	18015
Pacific	513	3.375	**2.875**	0.375	18788
Hallite	511	3.500	**2.875**	0.344	18059
Hallite	513	3.500	**2.875**	0.550	18173
Hallite	18	3.625	**2.875**	0.563	18894
Pacific	513	3.750	**2.875**	0.438	37973
Pacific	513	3.875	**2.875**	0.500	37986
Hallite	18	3.875	**2.875**	0.625	18359
Pacific	513	4.000	**2.875**	0.875	37830
Hallite	511	3.250	**3.000**	0.138	17468
Pacific	513	3.250	**3.000**	0.250	37780
Hallite	511	3.375	**3.000**	0.207	43548
Hallite	513	3.375	**3.000**	0.207	17472
Hallite	513	3.375	**3.000**	0.275	19564



IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	513	3.375	**3.000**	0.344	19563
Hallite	605	3.375	**3.000**	0.375	16832
Hallite	513	3.375	**3.000**	0.413	17441
Hallite	416	3.421	**3.000**	0.165	36234
Pacific	513	3.438	**3.000**	0.219	37902
Hallite	605	3.438	**3.000**	0.281	35247
Pacific	PIP	3.500	**3.000**	0.125	38340
Hallite	511	3.500	**3.000**	0.223	36544
Hallite	511	3.500	**3.000**	0.275	17879
Hallite	18	3.500	**3.000**	0.375	18123
Hallite	605	3.500	**3.000**	0.375	17698
Hallite	621	3.500	**3.000**	0.375	19008
Hallite	513	3.500	**3.000**	0.413	18041
Hallite	513	3.500	**3.000**	0.550	19565
Hallite	513	3.500	**3.000**	0.619	16539
Hallite	605	3.500	**3.000**	0.625	18297
Hallite	7	3.500	**3.000**	0.875	15182
Hallite	416	3.594	**3.000**	0.248	40055
Hallite	416	3.616	**3.000**	0.250	34570
Hallite	653	3.616	**3.000**	0.250	35754
Hallite	511	3.625	**3.000**	0.344	18112
Hallite	605	3.625	**3.000**	0.375	35248
Hallite	513	3.625	**3.000**	0.413	35714
Hallite	605	3.625	**3.000**	0.500	18132
Hallite	621	3.625	**3.000**	0.500	19036
Hallite	513	3.625	**3.000**	0.550	18209
Hallite	601	3.625	**3.000**	0.563	18522
Hallite	7	3.625	**3.000**	1.000	15132
Hallite	7	3.625	**3.000**	1.000	44032
Pacific	UBR	3.680	**3.000**	0.190	40050

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	18	3.750	**3.000**	0.375	18271
Hallite	601	3.750	**3.000**	0.375	18158
Hallite	511	3.750	**3.000**	0.413	18514
Pacific	FR	3.750	**3.000**	0.500	18396
Hallite	513	3.750	**3.000**	0.550	18622
Hallite	18	3.750	**3.000**	0.563	18278
Pacific	FR	3.750	**3.000**	0.563	18588
Hallite	605	3.750	**3.000**	0.625	18056
Hallite	621	3.750	**3.000**	0.625	19037
Hallite	513	3.750	**3.000**	0.688	18623
Hallite	7	3.750	**3.000**	1.125	14145
Pacific	511	3.875	**3.000**	0.438	37974
Pacific	513	3.875	**3.000**	0.688	37837
Pacific	FR	4.000	**3.000**	0.375	18371
Hallite	511	4.000	**3.000**	0.550	18921
Pacific	FR	4.000	**3.000**	0.625	18339
Hallite	513	4.000	**3.000**	0.825	15870
Pacific	511	4.250	**3.000**	0.625	16378
Pacific	513	4.375	**3.000**	0.688	38023
Pacific	513	4.500	**3.000**	0.750	38024
Pacific	513	5.000	**3.000**	1.000	38071
Pacific	513	3.500	**3.063**	0.219	37903
Hallite	18	4.063	**3.063**	0.750	18936
Hallite	18	3.500	**3.125**	0.172	18089
Hallite	511	3.500	**3.125**	0.207	17510
Hallite	513	3.500	**3.125**	0.275	19566
Hallite	513	3.500	**3.125**	0.413	17940
Hallite	605	3.500	**3.125**	0.625	16523
Hallite	513	3.625	**3.125**	0.275	16259
Hallite	513	3.625	**3.125**	0.413	19567

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	511	3.750	**3.125**	0.344	18136
Hallite	18	3.750	**3.125**	0.438	18628
Hallite	513	3.750	**3.125**	0.550	18305
Pacific	511	3.875	**3.125**	0.375	16316
Hallite	18	3.875	**3.125**	0.563	18358
Hallite	513	3.875	**3.125**	0.688	16317
Hallite	7	3.875	**3.125**	1.125	14117
Pacific	511	4.000	**3.125**	0.438	37975
Pacific	513	4.625	**3.125**	0.750	38025
Pacific	513	3.563	**3.188**	0.375	19568
Pacific	513	3.625	**3.188**	0.500	16289
Pacific	513	3.750	**3.188**	0.500	18617
Hallite	511	3.625	**3.250**	0.207	17576
Hallite	513	3.625	**3.250**	0.344	19569
Hallite	605	3.625	**3.250**	0.375	38244
Hallite	513	3.625	**3.250**	0.413	18016
Hallite	605	3.625	**3.250**	0.563	16840
Hallite	511	3.750	**3.250**	0.275	17982
Hallite	605	3.750	**3.250**	0.375	17718
Hallite	621	3.750	**3.250**	0.375	19058
Hallite	513	3.750	**3.250**	0.413	18120
Hallite	511	3.875	**3.250**	0.344	43566
Hallite	513	3.875	**3.250**	0.344	18604
Hallite	513	3.875	**3.250**	0.550	18343
Hallite	601	3.875	**3.250**	0.563	18812
Pacific	UBR	3.920	**3.250**	0.190	36168
Hallite	601	4.000	**3.250**	0.375	17994
Hallite	511	4.000	**3.250**	0.413	18582
Hallite	513	4.000	**3.250**	0.550	18696
Hallite	18	4.000	**3.250**	0.563	18488

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	FR	4.000	**3.250**	0.563	18431
Hallite	513	4.000	**3.250**	0.688	18700
Hallite	7	4.000	**3.250**	1.125	15160
Hallite	7	4.000	**3.250**	1.125	44033
Pacific	511	4.125	**3.250**	0.438	18757
Pacific	511	4.250	**3.250**	0.500	19084
Hallite	511	3.750	**3.375**	0.207	15855
Hallite	513	3.750	**3.375**	0.413	18555
Hallite	511	3.875	**3.375**	0.275	16260
Pacific	513	3.875	**3.375**	0.375	16261
Hallite	18	3.875	**3.375**	0.438	18076
Hallite	511	4.000	**3.375**	0.344	18256
Hallite	18	4.000	**3.375**	0.438	18584
Hallite	513	4.000	**3.375**	0.550	18368
Hallite	605	4.000	**3.375**	0.594	18326
Hallite	511	4.125	**3.375**	0.413	18893
Hallite	18	4.125	**3.375**	0.563	15841
Pacific	FR	4.125	**3.375**	0.563	18460
Hallite	513	4.125	**3.375**	0.688	16318
Hallite	511	4.375	**3.375**	0.550	19578
Pacific	513	4.375	**3.375**	0.625	37840
Hallite	18	4.375	**3.375**	0.750	19159
Hallite	18	3.900	**3.400**	0.375	18715
Pacific	513	3.875	**3.438**	0.219	37904
Hallite	7	4.125	**3.485**	1.000	15108
Pacific	511	3.750	**3.500**	0.250	37781
Hallite	511	3.875	**3.500**	0.207	17692
Hallite	605	3.875	**3.500**	0.375	16833
Hallite	513	3.875	**3.500**	0.413	18144
Pacific	PIP	4.000	**3.500**	0.188	38322

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	511	4.000	**3.500**	0.223	36546
Hallite	511	4.000	**3.500**	0.275	18052
Hallite	605	4.000	**3.500**	0.313	35249
Hallite	513	4.000	**3.500**	0.344	19570
Hallite	18	4.000	**3.500**	0.375	18306
Hallite	605	4.000	**3.500**	0.375	17803
Hallite	621	4.000	**3.500**	0.375	18731
Pacific	FR	4.000	**3.500**	0.375	18138
Hallite	513	4.000	**3.500**	0.413	18191
Hallite	7	4.000	**3.500**	0.875	14197
Hallite	416	4.094	**3.500**	0.248	40056
Hallite	16	4.116	**3.500**	0.250	34571
Hallite	653	4.116	**3.500**	0.250	35755
Hallite	511	4.125	**3.500**	0.344	18551
Hallite	605	4.125	**3.500**	0.500	18251
Hallite	621	4.125	**3.500**	0.500	19107
Hallite	513	4.125	**3.500**	0.550	18397
Hallite	511	4.250	**3.500**	0.413	18667
Hallite	513	4.250	**3.500**	0.550	18766
Hallite	18	4.250	**3.500**	0.563	18416
Pacific	FR	4.250	**3.500**	0.563	18694
Hallite	605	4.250	**3.500**	0.625	18310
Hallite	621	4.250	**3.500**	0.625	35907
Hallite	513	4.250	**3.500**	0.688	18767
Hallite	7	4.250	**3.500**	1.125	15216
Hallite	7	4.250	**3.500**	1.125	44034
Pacific	511	4.500	**3.500**	0.500	18995
Pacific	FR	4.500	**3.500**	0.563	18993
Hallite	18	4.500	**3.500**	0.750	18600
Hallite	511	4.500	**3.500**	0.750	15871

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	18	4.500	**3.500**	0.875	18668
Pacific	513	4.750	**3.500**	0.625	16380
Pacific	513	4.750	**3.500**	1.000	37849
Pacific	513	5.000	**3.500**	0.750	38026
Pacific	513	3.875	**3.625**	0.125	37879
Hallite	511	4.000	**3.625**	0.207	17751
Hallite	513	4.000	**3.625**	0.275	19571
Hallite	513	4.000	**3.625**	0.344	19576
Hallite	513	4.000	**3.625**	0.413	18193
Hallite	511	4.125	**3.625**	0.275	16262
Hallite	513	4.125	**3.625**	0.413	18614
Hallite	601	4.250	**3.625**	0.563	18852
Pacific	513	4.375	**3.625**	0.375	19151
Hallite	513	4.375	**3.625**	0.688	19017
Pacific	513	4.500	**3.625**	0.438	37993
Pacific	513	4.625	**3.625**	0.500	37987
Hallite	18	4.625	**3.625**	0.750	18698
Pacific	511	4.250	**3.688**	0.375	19054
Hallite	7	4.375	**3.735**	1.000	15088
Hallite	511	4.000	**3.750**	0.138	19575
Hallite	511	4.125	**3.750**	0.207	17961
Hallite	513	4.125	**3.750**	0.207	17861
Hallite	513	4.125	**3.750**	0.344	19572
Hallite	605	4.125	**3.750**	0.375	36138
Hallite	621	4.125	**3.750**	0.375	36622
Hallite	513	4.125	**3.750**	0.413	18324
Hallite	511	4.250	**3.750**	0.275	43556
Hallite	513	4.250	**3.750**	0.275	18135
Hallite	605	4.250	**3.750**	0.375	18476
Hallite	513	4.250	**3.750**	0.413	18292

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	513	4.250	**3.750**	0.619	18293
Hallite	416	4.360	**3.750**	0.250	36235
Hallite	511	4.375	**3.750**	0.344	18257
Hallite	513	4.375	**3.750**	0.413	19580
Hallite	513	4.375	**3.750**	0.550	18481
Hallite	601	4.500	**3.750**	0.375	18133
Hallite	511	4.500	**3.750**	0.413	18730
Hallite	18	4.500	**3.750**	0.500	18404
Hallite	513	4.500	**3.750**	0.550	18818
Hallite	513	4.500	**3.750**	0.688	18819
Hallite	7	4.500	**3.750**	1.125	14119
Pacific	511	4.750	**3.750**	0.500	18625
Pacific	513	4.750	**3.750**	0.688	37841
Hallite	18	4.750	**3.750**	0.750	18637
Pacific	FR	4.750	**3.750**	0.750	18828
Pacific	511	5.000	**3.750**	0.625	16381
Pacific	513	5.250	**3.750**	0.750	38027
Hallite	513	4.125	**3.875**	0.275	19574
Hallite	511	4.250	**3.875**	0.207	16256
Hallite	513	4.250	**3.875**	0.250	35265
Hallite	513	4.250	**3.875**	0.413	19577
Hallite	511	4.375	**3.875**	0.275	16263
Hallite	513	4.375	**3.875**	0.413	35710
Pacific	513	4.438	**3.875**	0.500	37799
Hallite	513	4.500	**3.875**	0.550	18502
Hallite	18	4.500	**3.875**	0.563	19024
Hallite	7	4.500	**3.875**	1.000	14120
Hallite	511	4.625	**3.875**	0.413	16319
Pacific	513	4.625	**3.875**	0.625	16320
Pacific	513	4.750	**3.875**	0.750	18832

IMPERIAL

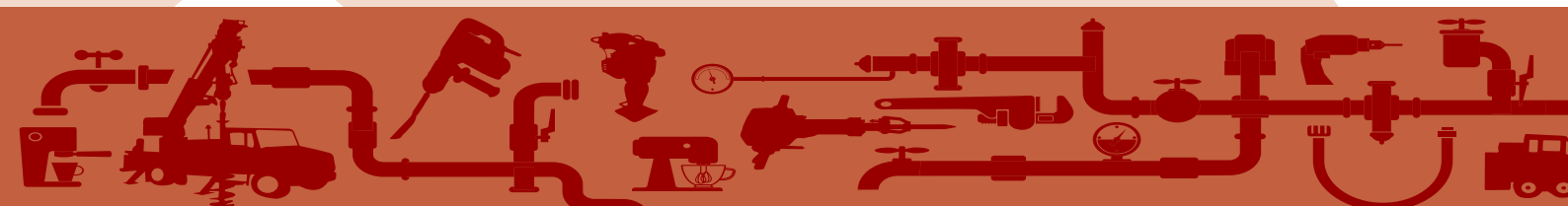
BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	513	5.125	**3.875**	0.625	38020
Hallite	7	4.625	**3.984**	1.000	14121
Hallite	18	4.750	**3.984**	0.560	18507
Hallite	511	4.250	**4.000**	0.138	19579
Hallite	511	4.375	**4.000**	0.207	17949
Hallite	513	4.375	**4.000**	0.207	17957
Hallite	513	4.375	**4.000**	0.275	19582
Hallite	513	4.375	**4.000**	0.344	19581
Hallite	605	4.375	**4.000**	0.375	16834
Hallite	513	4.375	**4.000**	0.413	18387
Pacific	PIP	4.500	**4.000**	0.188	38323
Hallite	511	4.500	**4.000**	0.275	18192
Pacific	513	4.500	**4.000**	0.313	18579
Hallite	605	4.500	**4.000**	0.313	36575
Hallite	18	4.500	**4.000**	0.375	18375
Hallite	605	4.500	**4.000**	0.375	17954
Hallite	621	4.500	**4.000**	0.375	19094
Hallite	513	4.500	**4.000**	0.413	18366
Hallite	601	4.500	**4.000**	0.511	18157
Hallite	513	4.500	**4.000**	0.550	19585
Hallite	605	4.500	**4.000**	0.563	18422
Hallite	621	4.500	**4.000**	0.563	19124
Hallite	513	4.500	**4.000**	0.619	18367
Hallite	605	4.500	**4.000**	0.781	16526
Hallite	7	4.500	**4.000**	0.875	14027
Hallite	416	4.594	**4.000**	0.248	34572
Hallite	653	4.616	**4.000**	0.250	36792
Hallite	511	4.625	**4.000**	0.344	18433
Hallite	605	4.625	**4.000**	0.375	35250
Hallite	605	4.625	**4.000**	0.500	18386

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	513	4.625	**4.000**	0.550	18538
Hallite	621	4.625	**4.000**	0.563	19134
Hallite	513	4.625	**4.000**	0.619	16295
Hallite	601	4.750	**4.000**	0.375	18332
Hallite	511	4.750	**4.000**	0.413	18787
Hallite	605	4.750	**4.000**	0.500	16608
Hallite	513	4.750	**4.000**	0.550	18861
Hallite	605	4.750	**4.000**	0.625	18735
Hallite	621	4.750	**4.000**	0.625	18726
Hallite	513	4.750	**4.000**	0.688	18860
Hallite	7	4.750	**4.000**	1.031	15090
Pacific	513	4.875	**4.000**	0.438	16346
Pacific	513	4.875	**4.000**	0.625	37838
Hallite	18	4.875	**4.000**	0.656	18714
Hallite	511	5.000	**4.000**	0.550	19087
Hallite	18	5.000	**4.000**	0.625	18797
Hallite	18	5.000	**4.000**	0.750	18752
Hallite	513	5.000	**4.000**	0.825	15872
Hallite	7	5.000	**4.000**	1.625	15110
Pacific	513	5.250	**4.000**	0.625	16382
Pacific	513	5.500	**4.000**	0.750	38028
Pacific	513	6.000	**4.000**	1.000	38072
Pacific	513	4.813	**4.063**	0.375	15630
Hallite	511	4.500	**4.125**	0.207	18031
Hallite	513	4.500	**4.125**	0.275	19584
Hallite	513	4.500	**4.125**	0.413	18480
Hallite	513	4.625	**4.125**	0.275	36547
Hallite	513	4.625	**4.125**	0.413	19587
Hallite	513	4.750	**4.125**	0.550	18558
Pacific	513	4.750	**4.125**	0.563	37801

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	511	4.875	**4.125**	0.413	19588
Pacific	511	5.125	**4.125**	0.500	37988
Pacific	513	5.250	**4.125**	0.563	38011
Pacific	513	4.500	**4.250**	0.125	37880
Hallite	513	4.625	**4.250**	0.344	19586
Hallite	513	4.625	**4.250**	0.413	18533
Hallite	511	4.750	**4.250**	0.275	18275
Hallite	513	4.750	**4.250**	0.413	18465
Hallite	511	4.750	**4.250**	0.563	15864
Hallite	511	4.875	**4.250**	0.344	18410
Hallite	513	4.875	**4.250**	0.344	18492
Hallite	513	4.875	**4.250**	0.550	18552
Pacific	513	4.875	**4.250**	0.563	19060
Hallite	601	4.875	**4.250**	0.563	36091
Pacific	601	4.875	**4.250**	0.563	17984
Pacific	PIP	5.000	**4.250**	0.188	39603
Hallite	511	5.000	**4.250**	0.413	43082
Hallite	513	5.000	**4.250**	0.413	18835
Hallite	513	5.000	**4.250**	0.550	18898
Hallite	18	5.000	**4.250**	0.563	18602
Hallite	605	5.000	**4.250**	0.625	18744
Hallite	513	5.000	**4.250**	0.688	18899
Hallite	511	5.250	**4.250**	0.550	16350
Hallite	18	5.250	**4.250**	0.750	18843
Hallite	513	5.250	**4.250**	0.825	19143
Hallite	511	5.500	**4.250**	0.688	16383
Pacific	513	5.750	**4.250**	0.750	38029
Pacific	513	6.250	**4.250**	1.000	38073
Pacific	513	5.313	**4.313**	0.500	37989
Pacific	513	4.625	**4.375**	0.125	37881



IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	511	4.750	**4.375**	0.207	18778
Hallite	513	4.750	**4.375**	0.413	18842
Hallite	511	4.875	**4.375**	0.275	43557
Hallite	513	4.875	**4.375**	0.275	18490
Pacific	513	4.875	**4.375**	0.563	16264
Hallite	511	5.000	**4.375**	0.344	18537
Hallite	513	5.000	**4.375**	0.550	18644
Pacific	511	5.000	**4.375**	0.563	18643
Pacific	601	5.000	**4.375**	0.563	18713
Hallite	513	5.000	**4.375**	0.688	18593
Pacific	511	5.125	**4.375**	0.375	19197
Pacific	511	5.125	**4.375**	0.625	19182
Pacific	513	5.125	**4.375**	0.625	47063
Pacific	513	5.375	**4.375**	0.500	37990
Pacific	513	5.375	**4.375**	0.750	16351
Hallite	18	5.125	**4.480**	0.410	18864
Pacific	513	4.750	**4.500**	0.125	37882
Hallite	511	4.875	**4.500**	0.207	18134
Hallite	513	4.875	**4.500**	0.413	18589
Hallite	511	5.000	**4.500**	0.275	43558
Hallite	513	5.000	**4.500**	0.275	18344
Hallite	513	5.000	**4.500**	0.344	19591
Hallite	18	5.000	**4.500**	0.375	18615
Hallite	601	5.000	**4.500**	0.375	18633
Hallite	605	5.000	**4.500**	0.375	18298
Hallite	621	5.000	**4.500**	0.375	18960
Hallite	513	5.000	**4.500**	0.413	18556
Hallite	513	5.000	**4.500**	0.413	19592
Hallite	621	5.000	**4.500**	0.563	18959
Hallite	513	5.000	**4.500**	0.619	18557

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	416	5.094	**4.500**	0.248	34573
Hallite	511	5.125	**4.500**	0.344	18576
Hallite	513	5.125	**4.500**	0.413	19595
Hallite	605	5.125	**4.500**	0.500	18451
Hallite	605	5.125	**4.500**	0.625	16607
Hallite	621	5.125	**4.500**	0.625	19237
Hallite	513	5.125	**4.500**	0.688	18677
Hallite	511	5.250	**4.500**	0.413	18867
Hallite	18	5.250	**4.500**	0.469	18681
Pacific	FRI	5.250	**4.500**	0.500	18569
Hallite	513	5.250	**4.500**	0.550	18928
Hallite	605	5.250	**4.500**	0.625	18779
Hallite	621	5.250	**4.500**	0.625	19119
Hallite	513	5.250	**4.500**	0.688	18927
Hallite	416	5.330	**4.500**	0.320	36237
Pacific	511	5.375	**4.500**	0.438	19133
Hallite	18	5.375	**4.500**	0.688	16624
Pacific	513	5.375	**4.500**	0.750	16347
Hallite	511	5.500	**4.500**	0.550	35270
Hallite	18	5.500	**4.500**	0.750	18955
Hallite	513	5.500	**4.500**	0.825	15873
Pacific	513	5.750	**4.500**	0.625	16384
Pacific	513	6.000	**4.500**	0.750	38030
Hallite	18	5.063	**4.563**	0.375	18515
Hallite	511	5.000	**4.625**	0.207	18174
Hallite	513	5.000	**4.625**	0.275	19589
Hallite	513	5.000	**4.625**	0.344	19590
Hallite	513	5.000	**4.625**	0.413	18645
Hallite	511	5.125	**4.625**	0.275	43559
Hallite	513	5.125	**4.625**	0.275	18550

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	513	5.125	**4.625**	0.563	16265
Pacific	601	5.250	**4.625**	0.563	18185
Pacific	601	5.250	**4.625**	0.563	18996
Hallite	605	5.250	**4.625**	0.625	18605
Pacific	513	5.375	**4.625**	0.375	16322
Pacific	511	5.375	**4.625**	0.625	19267
Hallite	605	5.125	**4.750**	0.375	38245
Hallite	513	5.125	**4.750**	0.413	19593
Hallite	511	5.250	**4.750**	0.275	18532
Hallite	513	5.250	**4.750**	0.413	16266
Hallite	513	5.250	**4.750**	0.550	19597
Hallite	513	5.250	**4.750**	0.619	18640
Hallite	605	5.250	**4.750**	0.625	16814
Hallite	416	5.344	**4.750**	0.248	36238
Hallite	511	5.375	**4.750**	0.344	18607
Hallite	513	5.375	**4.750**	0.550	18545
Hallite	513	5.375	**4.750**	0.688	19175
Pacific	PIP	5.500	**4.750**	0.188	40285
Hallite	601	5.500	**4.750**	0.360	18794
Hallite	511	5.500	**4.750**	0.413	18906
Hallite	513	5.500	**4.750**	0.550	16541
Hallite	18	5.500	**4.750**	0.625	18813
Hallite	513	5.500	**4.750**	0.688	18973
Pacific	511	5.625	**4.750**	0.625	37820
Pacific	513	5.750	**4.750**	0.500	19144
Pacific	513	5.750	**4.750**	0.688	19187
Pacific	FRI	5.750	**4.750**	0.750	18851
Pacific	513	6.000	**4.750**	1.000	37850
Hallite	513	5.125	**4.875**	0.275	19594
Hallite	511	5.375	**4.875**	0.275	18765

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	513	5.375	**4.875**	0.413	35711
Pacific	513	5.375	**4.875**	0.563	16267
Pacific	513	5.500	**4.875**	0.313	16297
Pacific	513	5.625	**4.875**	0.375	37937
Pacific	513	5.625	**4.875**	0.625	16323
Pacific	513	5.875	**4.875**	0.563	37842
Hallite	18	5.875	**4.875**	0.750	18948
Pacific	513	5.250	**5.000**	0.125	37883
Hallite	513	5.375	**5.000**	0.413	19598
Hallite	511	5.500	**5.000**	0.275	18438
Hallite	605	5.500	**5.000**	0.375	34843
Hallite	513	5.500	**5.000**	0.413	18722
Hallite	513	5.500	**5.000**	0.550	19600
Hallite	605	5.500	**5.000**	0.563	18793
Hallite	621	5.500	**5.000**	0.563	19214
Hallite	513	5.500	**5.000**	0.619	18721
Pacific	513	5.563	**5.000**	0.281	16290
Hallite	416	5.594	**5.000**	0.248	40057
Hallite	16	5.610	**5.000**	0.250	34574
Hallite	511	5.625	**5.000**	0.344	18691
Hallite	605	5.625	**5.000**	0.500	18536
Hallite	621	5.625	**5.000**	0.625	19250
Hallite	513	5.625	**5.000**	0.688	16298
Hallite	511	5.750	**5.000**	0.413	18931
Hallite	601	5.750	**5.000**	0.482	19157
Hallite	513	5.750	**5.000**	0.550	19000
Pacific	FR	5.750	**5.000**	0.563	38192
Hallite	605	5.750	**5.000**	0.625	18840
Hallite	621	5.750	**5.000**	0.625	18792
Hallite	513	5.750	**5.000**	0.688	18999

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	511	6.000	**5.000**	0.550	19213
Hallite	18	6.000	**5.000**	0.750	18891
Hallite	511	6.000	**5.000**	0.750	15874
Pacific	511	6.250	**5.000**	0.625	16387
Pacific	513	6.500	**5.000**	0.750	38031
Pacific	513	6.750	**5.000**	1.000	37863
Hallite	18	6.063	**5.063**	0.875	19139
Pacific	513	5.625	**5.125**	0.250	37905
Hallite	605	5.625	**5.125**	0.563	16606
Pacific	511	5.750	**5.125**	0.313	16299
Pacific	513	5.750	**5.125**	0.563	19148
Pacific	511	5.750	**5.125**	0.625	37809
Pacific	513	5.875	**5.125**	0.375	15635
Pacific	511	6.000	**5.125**	0.438	19092
Pacific	513	6.000	**5.125**	0.500	37821
Hallite	605	6.000	**5.125**	0.500	16604
Hallite	511	6.125	**5.125**	0.550	16538
Pacific	513	6.125	**5.125**	0.750	37843
Pacific	513	6.750	**5.125**	0.500	19280
Pacific	513	5.625	**5.250**	0.188	37897
Hallite	511	5.750	**5.250**	0.275	19602
Pacific	513	5.750	**5.250**	0.375	37787
Hallite	513	5.750	**5.250**	0.619	16269
Hallite	513	5.875	**5.250**	0.688	19233
Hallite	511	6.000	**5.250**	0.413	18979
Hallite	513	6.000	**5.250**	0.550	19601
Hallite	18	6.000	**5.250**	0.563	19141
Hallite	513	6.000	**5.250**	0.688	19020
Hallite	513	6.000	**5.250**	0.825	16549
Hallite	511	6.250	**5.250**	0.550	16354

IMPERIAL

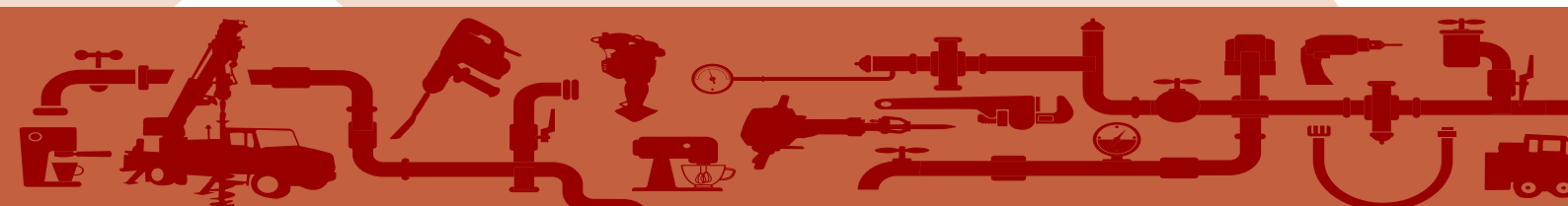
BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	513	6.250	**5.250**	0.825	15875
Pacific	513	6.750	**5.250**	0.750	38032
Pacific	513	5.875	**5.375**	0.250	18978
Pacific	513	5.875	**5.375**	0.375	37788
Hallite	511	6.000	**5.375**	0.344	18750
Pacific	601	6.000	**5.375**	0.563	18511
Hallite	513	6.000	**5.375**	0.688	18982
Pacific	511	6.125	**5.375**	0.375	19057
Hallite	18	6.125	**5.375**	0.500	19161
Pacific	513	6.125	**5.375**	0.625	19603
Hallite	513	6.375	**5.375**	0.550	19605
Pacific	513	6.438	**5.438**	0.500	37991
Hallite	511	6.000	**5.500**	0.275	18642
Hallite	605	6.000	**5.500**	0.375	18620
Hallite	513	6.000	**5.500**	0.413	18856
Hallite	605	6.000	**5.500**	0.563	16835
Hallite	621	6.000	**5.500**	0.563	19179
Hallite	513	6.000	**5.500**	0.619	18855
Hallite	16	6.110	**5.500**	0.250	34576
Hallite	605	6.125	**5.500**	0.313	35252
Hallite	511	6.125	**5.500**	0.344	16301
Pacific	513	6.125	**5.500**	0.625	37810
Hallite	601	6.250	**5.500**	0.375	19035
Hallite	513	6.250	**5.500**	0.550	19606
Pacific	513	6.250	**5.500**	0.563	19045
Hallite	605	6.250	**5.500**	0.625	18916
Hallite	18	6.250	**5.500**	0.688	19011
Hallite	513	6.250	**5.500**	0.688	19019
Hallite	416	6.307	**5.500**	0.320	36239
Pacific	513	6.375	**5.500**	0.438	37994

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	513	6.500	**5.500**	0.500	16355
Hallite	18	6.500	**5.500**	0.750	19140
Pacific	513	6.500	**5.500**	0.750	15876
Pacific	513	6.625	**5.500**	0.563	38034
Pacific	513	6.750	**5.500**	0.625	38021
Pacific	513	6.750	**5.500**	1.000	15686
Pacific	513	7.000	**5.500**	0.750	38033
Pacific	513	7.000	**5.500**	1.250	37854
Pacific	511	6.125	**5.625**	0.250	18997
Hallite	605	6.125	**5.625**	0.375	38246
Hallite	513	6.125	**5.625**	0.619	40052
Pacific	513	6.000	**5.750**	0.125	37884
Hallite	511	6.250	**5.750**	0.275	16270
Hallite	513	6.250	**5.750**	0.413	19607
Hallite	513	6.250	**5.750**	0.619	18888
Pacific	513	6.375	**5.750**	0.625	16302
Hallite	601	6.500	**5.750**	0.375	19153
Hallite	513	6.500	**5.750**	0.550	19609
Hallite	513	6.500	**5.750**	0.688	19076
Pacific	513	6.750	**5.750**	0.500	16356
Hallite	18	6.750	**5.750**	0.750	19281
Pacific	513	6.750	**5.750**	0.750	19224
Pacific	511	7.000	**5.750**	0.625	19155
Pacific	513	6.250	**5.875**	0.188	37898
Pacific	513	6.375	**5.875**	0.563	37789
Hallite	511	6.500	**5.875**	0.313	18822
Pacific	513	6.625	**5.875**	0.625	16324
Hallite	18	6.875	**5.980**	0.560	19165
Pacific	513	6.375	**6.000**	0.188	37899
Pacific	513	6.375	**6.000**	0.375	37785

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	511	6.500	**6.000**	0.275	18656
Hallite	513	6.500	**6.000**	0.413	16271
Pacific	513	6.500	**6.000**	0.438	38104
Hallite	513	6.500	**6.000**	0.550	19612
Hallite	621	6.500	**6.000**	0.563	19202
Hallite	513	6.500	**6.000**	0.619	19062
Hallite	605	6.500	**6.000**	0.781	19074
Pacific	16	6.610	**6.000**	0.250	34575
Hallite	513	6.625	**6.000**	0.688	16304
Hallite	511	6.750	**6.000**	0.413	16536
Hallite	513	6.750	**6.000**	0.550	19610
Hallite	605	6.750	**6.000**	0.625	18990
Hallite	621	6.750	**6.000**	0.625	19282
Hallite	513	6.750	**6.000**	0.688	15867
Pacific	416	6.807	**6.000**	0.319	47084
Hallite	416	6.830	**6.000**	0.320	36240
Hallite	511	7.000	**6.000**	0.550	19191
Hallite	18	7.000	**6.000**	0.750	19160
Hallite	513	7.000	**6.000**	0.825	15877
Pacific	513	7.250	**6.000**	0.625	16388
Hallite	18	7.250	**6.000**	1.000	19235
Pacific	513	7.250	**6.000**	1.000	38085
Pacific	513	7.500	**6.000**	0.750	19312
Pacific	513	8.000	**6.000**	1.000	38074
Pacific	513	6.750	**6.125**	0.313	37927
Hallite	511	6.750	**6.250**	0.275	16272
Pacific	511	6.750	**6.250**	0.563	16274
Hallite	513	6.750	**6.250**	0.619	43526
Pacific	PIP	7.000	**6.250**	0.188	40286
Hallite	511	7.000	**6.250**	0.413	19316



IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	513	7.000	**6.250**	0.500	16542
Hallite	513	7.000	**6.250**	0.625	19097
Hallite	511	7.250	**6.250**	0.550	19293
Hallite	513	7.250	**6.250**	0.825	16357
Pacific	513	7.500	**6.250**	0.625	16389
Hallite	18	7.500	**6.250**	1.000	19284
Pacific	513	7.750	**6.250**	1.250	37855
Hallite	511	7.000	**6.375**	0.344	16305
Pacific	601	7.000	**6.375**	0.563	18430
Hallite	513	7.000	**6.375**	0.688	19129
Hallite	511	7.000	**6.500**	0.275	18711
Hallite	605	7.000	**6.500**	0.375	36378
Hallite	513	7.000	**6.500**	0.413	16543
Hallite	513	7.000	**6.500**	0.550	19613
Hallite	513	7.000	**6.500**	0.619	16275
Hallite	511	7.125	**6.500**	0.344	19007
Hallite	513	7.125	**6.500**	0.688	19108
Hallite	513	7.250	**6.500**	0.550	16325
Hallite	605	7.250	**6.500**	0.625	19003
Hallite	18	7.250	**6.500**	0.688	19201
Hallite	513	7.250	**6.500**	0.688	16326
Hallite	511	7.500	**6.500**	0.550	16358
Pacific	513	7.500	**6.500**	0.750	19301
Hallite	511	7.750	**6.500**	0.688	35267
Hallite	18	7.750	**6.500**	1.000	19317
Pacific	513	7.750	**6.500**	1.000	38086
Pacific	513	8.000	**6.500**	0.750	38046
Pacific	513	8.000	**6.500**	1.250	37856
Pacific	513	7.125	**6.625**	0.375	37790
Pacific	513	7.250	**6.625**	0.313	37928

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	513	7.875	**6.625**	0.625	38022
Hallite	511	7.250	**6.750**	0.275	19053
Hallite	513	7.250	**6.750**	0.413	19614
Hallite	513	7.250	**6.750**	0.550	19615
Hallite	513	7.250	**6.750**	0.619	16276
Hallite	513	7.375	**6.750**	0.688	19616
Hallite	511	7.500	**6.750**	0.413	19279
Hallite	18	7.500	**6.750**	0.438	19162
Hallite	513	7.500	**6.750**	0.550	16550
Hallite	513	7.500	**6.750**	0.688	16327
Pacific	513	7.625	**6.750**	0.750	37822
Pacific	513	7.750	**6.750**	0.500	37992
Hallite	18	7.750	**6.750**	1.000	16630
Pacific	513	7.875	**6.750**	0.563	38035
Hallite	18	8.000	**6.750**	1.000	19310
Pacific	513	8.000	**6.750**	1.000	38087
Pacific	513	8.063	**6.813**	0.625	38036
Pacific	513	8.125	**6.875**	0.625	38037
Hallite	7	7.750	**6.985**	1.125	14127
Hallite	511	7.500	**7.000**	0.275	16277
Hallite	513	7.500	**7.000**	0.413	16544
Hallite	513	7.500	**7.000**	0.550	19617
Hallite	605	7.500	**7.000**	0.563	16602
Hallite	513	7.500	**7.000**	0.619	16278
Hallite	16	7.610	**7.000**	0.250	34577
Hallite	653	7.610	**7.000**	0.250	36794
Hallite	513	7.625	**7.000**	0.688	16548
Hallite	511	7.750	**7.000**	0.413	16328
Hallite	513	7.750	**7.000**	0.550	16329
Hallite	605	7.750	**7.000**	0.625	19031

ROD SEALS - SINGLE ACTING

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	621	7.750	**7.000**	0.625	36625
Hallite	513	7.750	**7.000**	0.688	16330
Hallite	416	7.807	**7.000**	0.320	36241
Hallite	601	8.000	**7.000**	0.500	19244
Hallite	511	8.000	**7.000**	0.550	19212
Hallite	18	8.000	**7.000**	0.688	19300
Hallite	513	8.000	**7.000**	0.825	19335
Hallite	18	8.000	**7.000**	0.875	19231
Pacific	513	8.250	**7.000**	0.625	16390
Hallite	18	8.250	**7.000**	1.000	19313
Pacific	513	8.250	**7.000**	1.000	19395
Pacific	513	8.500	**7.000**	0.750	38047
Pacific	513	8.500	**7.000**	1.250	37857
Pacific	513	9.000	**7.000**	1.000	38075
Pacific	513	7.625	**7.125**	0.250	37906
Pacific	513	8.625	**7.125**	0.750	38045
Hallite	513	7.750	**7.250**	0.275	19618
Hallite	513	7.750	**7.250**	0.619	19619
Hallite	511	8.000	**7.250**	0.413	16331
Hallite	513	8.000	**7.250**	0.550	16332
Hallite	513	8.000	**7.250**	0.688	19223
Hallite	513	8.000	**7.250**	0.825	16551
Hallite	513	8.250	**7.250**	0.825	16360
Pacific	513	8.500	**7.250**	1.000	38088
Hallite	513	8.000	**7.375**	0.688	16540
Pacific	513	7.875	**7.500**	0.250	37786
Hallite	511	8.000	**7.500**	0.275	18836
Hallite	605	8.000	**7.500**	0.375	38247
Hallite	513	8.000	**7.500**	0.413	16545
Hallite	513	8.000	**7.500**	0.619	16279

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	511	8.125	**7.500**	0.344	19085
Pacific	513	8.125	**7.500**	0.625	37811
Hallite	513	8.250	**7.500**	0.550	16333
Hallite	513	8.250	**7.500**	0.688	19208
Hallite	511	8.500	**7.500**	0.550	19230
Hallite	513	8.500	**7.500**	0.750	35274
Hallite	18	8.750	**7.500**	1.000	19294
Pacific	513	8.750	**7.500**	1.000	38089
Pacific	513	9.000	**7.500**	0.750	38048
Pacific	513	9.000	**7.500**	1.250	37858
Pacific	513	9.500	**7.500**	1.000	38076
Pacific	513	8.250	**7.625**	0.500	37812
Pacific	513	8.250	**7.750**	0.250	37913
Pacific	513	8.250	**7.750**	0.563	37791
Hallite	511	8.375	**7.750**	0.344	19625
Hallite	513	8.500	**7.750**	0.550	16335
Hallite	605	8.500	**7.750**	0.625	19181
Hallite	513	8.500	**7.750**	0.688	15868
Pacific	513	8.750	**7.750**	0.500	16361
Hallite	513	8.750	**7.750**	0.825	35275
Pacific	513	9.000	**7.750**	0.625	15674
Hallite	18	9.000	**7.750**	1.000	19355
Pacific	513	9.000	**7.750**	1.000	38090
Pacific	513	9.500	**7.750**	0.875	38066
Hallite	511	8.500	**8.000**	0.275	43560
Hallite	513	8.500	**8.000**	0.563	19146
Hallite	605	8.500	**8.000**	0.563	19190
Pacific	513	8.500	**8.000**	0.625	19239
Hallite	511	8.625	**8.000**	0.344	16535
Hallite	605	8.750	**8.000**	0.625	35253

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	621	8.750	**8.000**	0.625	35908
Hallite	513	8.750	**8.000**	0.688	15869
Pacific	PIP	9.000	**8.000**	0.313	40287
Hallite	511	9.000	**8.000**	0.550	19256
Hallite	18	9.000	**8.000**	0.750	19354
Hallite	513	9.000	**8.000**	0.825	15878
Pacific	513	9.250	**8.000**	0.625	15675
Hallite	18	9.250	**8.000**	1.000	19361
Hallite	18	9.250	**8.000**	1.375	19369
Pacific	513	9.500	**8.000**	0.750	38049
Hallite	18	9.500	**8.000**	1.000	19367
Pacific	511	10.000	**8.000**	1.000	38077
Pacific	513	8.625	**8.125**	0.563	16281
Pacific	513	9.438	**8.188**	0.625	38038
Hallite	511	8.750	**8.250**	0.275	19623
Hallite	511	8.875	**8.250**	0.344	19622
Hallite	513	9.000	**8.250**	0.500	35276
Hallite	513	9.000	**8.250**	0.688	16337
Pacific	513	9.250	**8.250**	0.500	37995
Pacific	513	9.250	**8.250**	0.750	37844
Pacific	513	9.500	**8.250**	0.625	15676
Hallite	18	9.500	**8.250**	1.000	19370
Pacific	513	9.500	**8.250**	1.000	38091
Pacific	513	9.750	**8.250**	0.750	38050
Pacific	513	9.000	**8.375**	0.625	37813
Hallite	18	9.125	**8.375**	0.563	34524
Pacific	513	9.625	**8.375**	0.625	38039
Pacific	513	9.875	**8.375**	0.750	38051
Hallite	513	9.000	**8.500**	0.413	16546
Hallite	513	9.000	**8.500**	0.619	16283

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	513	9.250	**8.500**	0.375	16338
Pacific	513	9.250	**8.500**	0.625	16339
Pacific	513	9.500	**8.500**	0.500	16362
Pacific	513	9.500	**8.500**	0.750	16363
Pacific	513	9.750	**8.500**	0.625	38105
Hallite	18	9.750	**8.500**	1.000	19373
Pacific	513	10.000	**8.500**	0.750	38052
Pacific	513	10.000	**8.500**	1.250	37859
Pacific	513	10.250	**8.500**	0.875	38067
Pacific	513	9.375	**8.625**	0.375	37938
Pacific	513	9.875	**8.625**	0.625	38040
Pacific	513	9.500	**8.750**	0.625	37816
Pacific	511	9.750	**8.750**	0.500	37996
Pacific	513	9.750	**8.750**	0.750	19382
Pacific	513	10.000	**8.750**	0.625	38106
Hallite	18	10.000	**8.750**	1.000	19384
Pacific	513	10.000	**8.750**	1.000	38092
Pacific	513	9.500	**8.875**	0.313	37929
Pacific	513	9.875	**8.875**	0.750	37845
Pacific	513	9.500	**9.000**	0.250	16284
Pacific	513	9.500	**9.000**	0.375	37792
Hallite	605	9.500	**9.000**	0.563	19196
Pacific	513	9.625	**9.000**	0.500	37814
Pacific	511	9.750	**9.000**	0.625	47064
Pacific	513	9.750	**9.000**	0.625	19381
Pacific	PIP	10.000	**9.000**	0.313	38255
Pacific	511	10.000	**9.000**	0.500	19360
Pacific	513	10.000	**9.000**	0.750	16364
Pacific	513	10.250	**9.000**	0.625	16392
Hallite	18	10.250	**9.000**	1.000	19386

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	513	10.250	**9.000**	1.000	38093
Pacific	513	10.500	**9.000**	0.750	38053
Pacific	513	10.500	**9.000**	1.250	37860
Pacific	513	9.750	**9.250**	0.250	37914
Pacific	513	9.875	**9.250**	0.625	16311
Pacific	511	10.000	**9.250**	0.375	19169
Pacific	511	10.000	**9.250**	0.625	15646
Hallite	605	10.000	**9.250**	0.625	35254
Pacific	513	10.250	**9.250**	0.750	16365
Hallite	18	10.500	**9.250**	1.000	19391
Pacific	513	10.750	**9.375**	1.000	37867
Pacific	513	10.000	**9.500**	0.250	16285
Pacific	513	10.000	**9.500**	0.563	37793
Pacific	513	10.250	**9.500**	0.375	37947
Pacific	513	10.250	**9.500**	0.625	16340
Pacific	513	10.500	**9.500**	0.500	16366
Pacific	513	10.500	**9.500**	0.750	16367
Hallite	18	10.500	**9.500**	1.000	19328
Hallite	18	10.750	**9.500**	1.000	19396
Pacific	513	11.000	**9.500**	0.750	38060
Pacific	513	10.250	**9.625**	0.313	37930
Pacific	513	10.375	**9.625**	0.625	37817
Pacific	513	10.250	**9.750**	0.250	37915
Pacific	513	10.250	**9.750**	0.563	16286
Pacific	513	10.500	**9.750**	0.375	37948
Pacific	513	10.500	**9.750**	0.625	19372
Pacific	513	10.500	**9.750**	0.625	47061
Pacific	513	10.750	**9.750**	0.500	37997
Hallite	18	11.000	**9.750**	1.000	19401
Pacific	513	11.000	**9.750**	1.000	38094

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	513	11.500	**9.750**	0.875	38068
Pacific	513	10.625	**9.875**	0.375	37949
Pacific	511	10.500	**10.000**	0.250	19262
Hallite	605	10.500	**10.000**	0.563	19217
Pacific	513	10.750	**10.000**	0.375	37950
Pacific	513	10.750	**10.000**	0.625	16341
Pacific	513	11.000	**10.000**	0.500	37998
Pacific	513	11.000	**10.000**	0.750	19402
Pacific	513	11.250	**10.000**	0.625	38041
Hallite	18	11.250	**10.000**	1.000	19406
Pacific	513	11.250	**10.000**	1.000	16394
Pacific	513	11.500	**10.000**	0.750	19440
Hallite	18	11.500	**10.000**	1.313	19409
Pacific	513	11.750	**10.000**	0.875	38069
Pacific	513	12.000	**10.000**	1.000	38078
Pacific	513	12.250	**10.000**	1.125	38083
Pacific	513	10.750	**10.125**	0.313	37931
Pacific	513	11.000	**10.250**	0.625	37833
Pacific	513	11.500	**10.250**	0.625	38042
Hallite	18	11.500	**10.250**	1.000	19410
Pacific	513	11.000	**10.500**	0.250	37916
Pacific	513	11.250	**10.500**	0.375	37951
Pacific	513	11.500	**10.500**	0.500	37999
Pacific	513	11.500	**10.500**	0.750	37823
Hallite	18	11.750	**10.500**	1.000	19414
Pacific	513	11.750	**10.500**	1.000	38095
Pacific	513	12.000	**10.500**	0.750	38061
Pacific	513	11.625	**10.625**	0.750	37824
Pacific	513	11.250	**10.750**	0.250	37917
Pacific	513	11.500	**10.750**	0.625	37834

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	513	11.750	**10.750**	0.750	37825
Hallite	18	12.000	**10.750**	1.000	19418
Pacific	513	12.250	**10.750**	0.750	38062
Pacific	513	11.375	**10.875**	0.250	37918
Pacific	513	11.500	**11.000**	0.250	16287
Pacific	513	11.750	**11.000**	0.375	37952
Pacific	513	12.000	**11.000**	0.500	16369
Hallite	18	12.000	**11.000**	0.750	19419
Pacific	513	12.000	**11.000**	0.750	19449
Pacific	513	12.250	**11.000**	0.625	38044
Hallite	18	12.250	**11.000**	1.000	19426
Pacific	513	12.250	**11.000**	1.000	38096
Pacific	513	12.500	**11.000**	0.750	38063
Pacific	513	12.500	**11.000**	1.250	37861
Pacific	513	11.750	**11.250**	0.250	37919
Pacific	513	12.000	**11.250**	0.375	19291
Pacific	513	12.000	**11.250**	0.625	16342
Pacific	513	12.250	**11.250**	0.500	38001
Hallite	18	12.500	**11.250**	1.000	19428
Pacific	513	12.500	**11.250**	1.000	38097
Pacific	513	12.000	**11.500**	0.250	16288
Pacific	513	12.250	**11.500**	0.625	19425
Pacific	513	12.500	**11.500**	0.500	38002
Pacific	513	12.500	**11.500**	0.750	16370
Pacific	513	12.750	**11.500**	1.000	38098
Pacific	513	12.500	**11.750**	0.375	37954
Pacific	513	12.750	**11.750**	0.500	38003
Hallite	18	13.000	**11.750**	1.000	19436
Pacific	513	13.000	**11.750**	1.000	38099
Pacific	513	12.625	**12.000**	0.313	37932

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	513	12.750	**12.000**	0.375	37955
Pacific	513	12.750	**12.000**	0.625	19490
Pacific	513	13.000	**12.000**	0.500	16371
Pacific	513	13.000	**12.000**	0.750	16373
Pacific	513	13.250	**12.000**	0.625	38054
Hallite	18	13.250	**12.000**	1.000	19442
Pacific	513	13.250	**12.000**	1.000	38100
Hallite	18	13.250	**12.000**	1.313	19441
Pacific	513	13.500	**12.000**	0.750	16395
Hallite	18	13.500	**12.000**	1.125	19444
Pacific	513	14.000	**12.000**	1.000	38079
Hallite	18	14.000	**12.000**	1.250	19446
Pacific	513	14.250	**12.000**	1.125	38084
Pacific	513	13.000	**12.250**	0.375	37956
Pacific	513	13.000	**12.250**	0.625	16343
Pacific	513	13.500	**12.250**	0.625	38055
Pacific	513	13.250	**12.500**	0.375	37957
Pacific	513	13.250	**12.500**	0.625	37835
Pacific	513	13.500	**12.500**	0.750	37826
Pacific	513	13.750	**12.500**	1.000	37866
Pacific	513	14.000	**12.500**	0.750	16396
Pacific	513	14.500	**12.500**	1.000	38080
Pacific	513	13.375	**12.750**	0.313	37933
Pacific	513	13.500	**12.750**	0.375	37958
Pacific	513	13.750	**12.750**	0.500	38004
Pacific	513	14.000	**12.750**	0.625	38056
Hallite	18	14.000	**12.750**	1.000	19448
Pacific	513	14.000	**12.750**	1.000	38101
Pacific	513	13.500	**13.000**	0.563	37794
Pacific	513	13.750	**13.000**	0.375	16344

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	513	14.000	**13.000**	0.750	16374
Pacific	513	14.250	**13.000**	0.625	38057
Hallite	18	14.250	**13.000**	1.000	19452
Pacific	513	14.500	**13.000**	0.750	38064
Pacific	513	14.750	**13.000**	1.375	37864
Pacific	513	15.000	**13.000**	1.000	38081
Pacific	513	14.000	**13.250**	0.375	16345
Pacific	513	14.250	**13.250**	0.500	38006
Pacific	513	14.250	**13.250**	0.750	37827
Pacific	513	14.000	**13.375**	0.313	37934
Pacific	513	14.500	**13.500**	0.750	19417
Pacific	513	14.500	**13.750**	0.375	37960
Hallite	18	15.000	**13.938**	0.813	19457
Pacific	513	14.500	**14.000**	0.375	37795
Pacific	513	14.750	**14.000**	0.375	37961
Pacific	513	15.000	**14.000**	0.750	37828
Hallite	18	15.250	**14.000**	1.208	19461
Pacific	513	15.500	**14.000**	0.750	16398
Hallite	18	15.500	**14.000**	1.500	19463
Pacific	513	15.750	**14.000**	1.500	37865
Pacific	513	16.000	**14.000**	1.000	38082
Pacific	513	15.750	**14.250**	0.750	38065
Pacific	513	15.000	**14.500**	0.375	37796
Pacific	513	15.250	**14.500**	0.375	37962
Pacific	513	15.500	**14.500**	0.500	38007
Pacific	513	16.000	**14.500**	0.750	15697
Hallite	18	16.000	**14.500**	1.500	19467
Pacific	513	15.500	**14.750**	0.375	37963
Pacific	513	15.500	**14.750**	0.625	37818
Pacific	513	15.750	**14.750**	0.500	38008

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	513	16.000	**14.750**	0.625	38058
Pacific	513	15.750	**15.000**	0.375	37964
Pacific	513	16.000	**15.000**	0.500	19460
Pacific	513	16.000	**15.000**	0.750	37829
Pacific	513	16.500	**15.000**	1.250	37862
Hallite	18	16.500	**15.000**	1.375	19472
Hallite	18	17.000	**15.000**	1.500	19474
Pacific	513	16.000	**15.250**	0.625	37819
Hallite	18	17.250	**15.250**	1.750	19475
Pacific	513	16.000	**15.375**	0.625	37815
Pacific	513	16.250	**15.500**	0.375	37965
Pacific	513	16.250	**15.750**	0.563	37797
Pacific	513	16.500	**15.750**	0.375	37966
Pacific	513	16.500	**16.000**	0.375	37798
Pacific	513	16.750	**16.000**	0.375	37967
Pacific	513	17.000	**16.000**	0.750	16376
Hallite	18	18.000	**16.000**	1.500	19477
Hallite	18	18.000	**16.500**	1.125	19481
Hallite	18	17.750	**17.000**	0.625	19478
Pacific	513	18.000	**17.000**	0.500	16377
Hallite	18	19.000	**17.000**	1.250	19484
Hallite	18	19.250	**18.000**	1.250	19487
Hallite	18	20.750	**19.000**	1.313	19494
Hallite	18	21.500	**20.000**	1.750	19506
Hallite	18	21.750	**20.500**	1.250	19498
Hallite	18	24.000	**22.500**	1.125	19501
Hallite	18	26.000	**24.000**	1.500	19504
Hallite	18	31.500	**30.000**	1.125	19510
Hallite	18	39.501	**38.000**	1.125	19511

IMPERIAL

NOTES

pacific
seals

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VEE PACK SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	13	**28.00**	18.00	18.50	14214
Pacific	9	**28.00**	20.00	12.30	14146
Hallite	11	**30.00**	20.00	18.50	15221
Hallite	13	**32.00**	20.00	23.50	15143
Hallite	9	**32.00**	22.00	16.00	15126
Hallite	11	**37.00**	25.00	22.50	44037
Pacific	13	**37.00**	25.00	22.50	15144
Pacific	9	**38.00**	22.00	26.00	13829
Pacific	9	**38.00**	25.00	17.10	35128
Hallite	13	**40.00**	25.00	23.50	15208
Hallite	11	**40.00**	28.00	22.50	15146
Pacific	9	**40.00**	30.00	21.80	13830
Hallite	11	**42.00**	30.00	22.50	44038
Pacific	13	**42.00**	30.00	23.50	15207
Pacific	9	**42.00**	32.00	17.00	14232
Hallite	11	**44.00**	32.00	22.50	15136
Hallite	13	**45.00**	30.00	23.50	15239
Hallite	11	**47.00**	35.00	22.50	15227
Hallite	11	**48.00**	36.00	22.50	15149
Hallite	13	**50.00**	35.00	22.50	15191
Pacific	13	**50.00**	40.00	17.30	13838
Pacific	9	**52.00**	36.00	17.60	13839
Hallite	11	**52.00**	40.00	22.50	44039
Pacific	11	**52.00**	40.00	22.50	15150
Hallite	11	**54.00**	42.00	22.50	15151
Hallite	13	**55.00**	40.00	23.50	15212
Hallite	11	**60.00**	45.00	22.50	15197
Pacific	9	**61.00**	45.00	29.00	14078
Hallite	9	**63.00**	48.00	22.50	15204
Hallite	13	**65.00**	45.00	27.50	14245

VEE PACK SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	11	**65.00**	50.00	22.50	15152
Hallite	13	**70.00**	50.00	30.00	15127
Hallite	11	**70.00**	55.00	22.50	44040
Pacific	11	**70.00**	55.00	22.50	15222
Pacific	11	**70.00**	55.00	22.50	15222A
Hallite	11	**71.00**	56.00	22.50	15230
Pacific	13	**75.00**	55.00	26.00	14246
Hallite	13	**75.00**	55.00	30.00	44046
Hallite	11	**75.00**	60.00	22.50	15219
Pacific	9	**75.00**	65.00	15.00	35132
Hallite	13	**80.00**	60.00	37.00	15116
Hallite	11	**80.00**	65.00	22.50	14248
Hallite	13	**85.00**	65.00	40.00	14221
Hallite	11	**85.00**	70.00	22.50	15196
Pacific	11	**89.00**	70.00	23.80	14400
Pacific	11	**90.00**	70.00	40.00	15125A
Pacific	13	**90.00**	70.00	40.00	15125
Hallite	11	**90.00**	75.00	22.50	44041
Pacific	13	**90.00**	75.00	23.50	15154
Hallite	13	**95.00**	75.00	40.00	15155
Hallite	11	**95.00**	80.00	22.50	15171
Hallite	11	**95.00**	80.00	22.50	44042
Pacific	11	**95.00**	80.00	22.50	15171A
Pacific	9	**95.00**	85.00	15.00	35136
Hallite	13	**100.00**	80.00	40.00	44047
Pacific	13	**100.00**	80.00	40.00	15198
Hallite	11	**100.00**	85.00	22.50	44043
Pacific	9	**100.00**	85.00	25.00	14223
Pacific	9	**100.00**	90.00	27.00	13799
Hallite	11	**105.00**	90.00	22.50	44044

VEE PACK SEALS - SINGLE ACTING

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	13	**105.00**	90.00	23.50	14224
Hallite	13	**110.00**	90.00	40.00	15112
Pacific	9	**115.00**	95.00	30.00	13823
Hallite	11	**115.00**	100.00	30.00	15157
Pacific	9	**115.00**	105.00	15.00	35138
Pacific	9	**120.00**	90.00	40.50	41655
Hallite	13	**120.00**	100.00	40.00	44048
Pacific	13	**120.00**	100.00	40.00	14226
Pacific	9	**125.00**	100.00	25.80	14258
Pacific	13	**125.00**	105.00	30.00	15124
Hallite	11	**125.00**	110.00	30.00	14227
Pacific	9	**130.00**	100.00	32.00	13800
Pacific	13	**130.00**	105.00	40.00	14081
Hallite	13	**130.00**	110.00	40.00	14184
Pacific	9	**132.00**	100.00	46.00	14082
Pacific	9	**135.00**	110.00	38.00	15163
Pacific	9	**140.00**	110.00	35.60	14327
Hallite	13	**140.00**	115.00	46.00	44049
Pacific	13	**140.00**	115.00	46.00	14255
Hallite	9	**140.00**	120.00	30.00	14259
Hallite	11	**140.00**	125.00	34.00	14256
Pacific	9	**145.00**	125.00	31.00	15105
Pacific	11	**150.00**	120.00	44.00	14253
Hallite	13	**150.00**	125.00	46.00	14185
Pacific	9	**150.00**	130.00	30.00	15199
Pacific	9	**155.00**	125.00	29.68	13801
Pacific	9	**155.00**	130.00	33.00	14095
Hallite	11	**155.00**	140.00	34.00	44045
Pacific	11	**155.00**	140.00	34.00	15217
Pacific	9	**160.00**	140.00	33.00	15089

VEE PACK SEALS - SINGLE ACTING

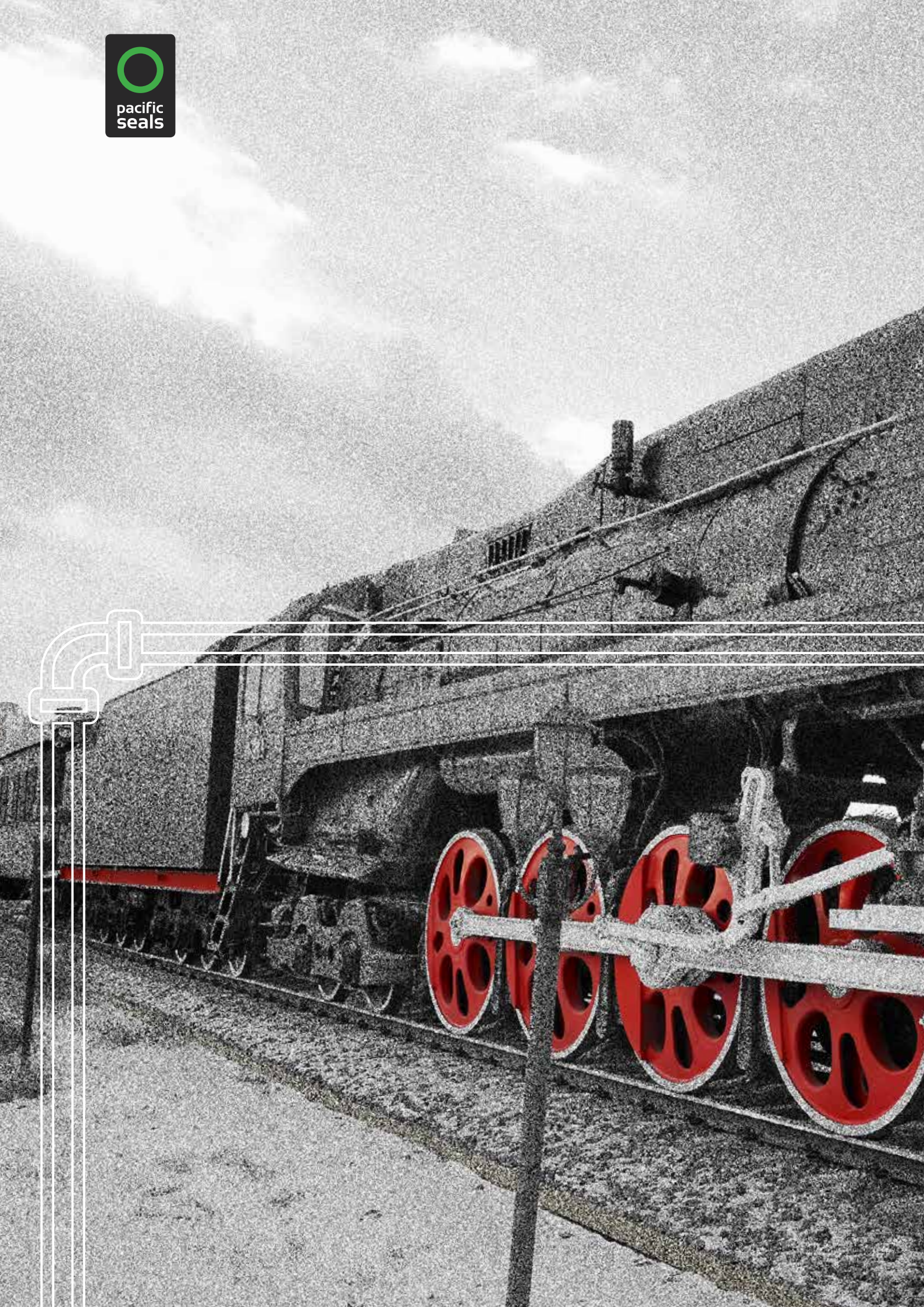
METRIC

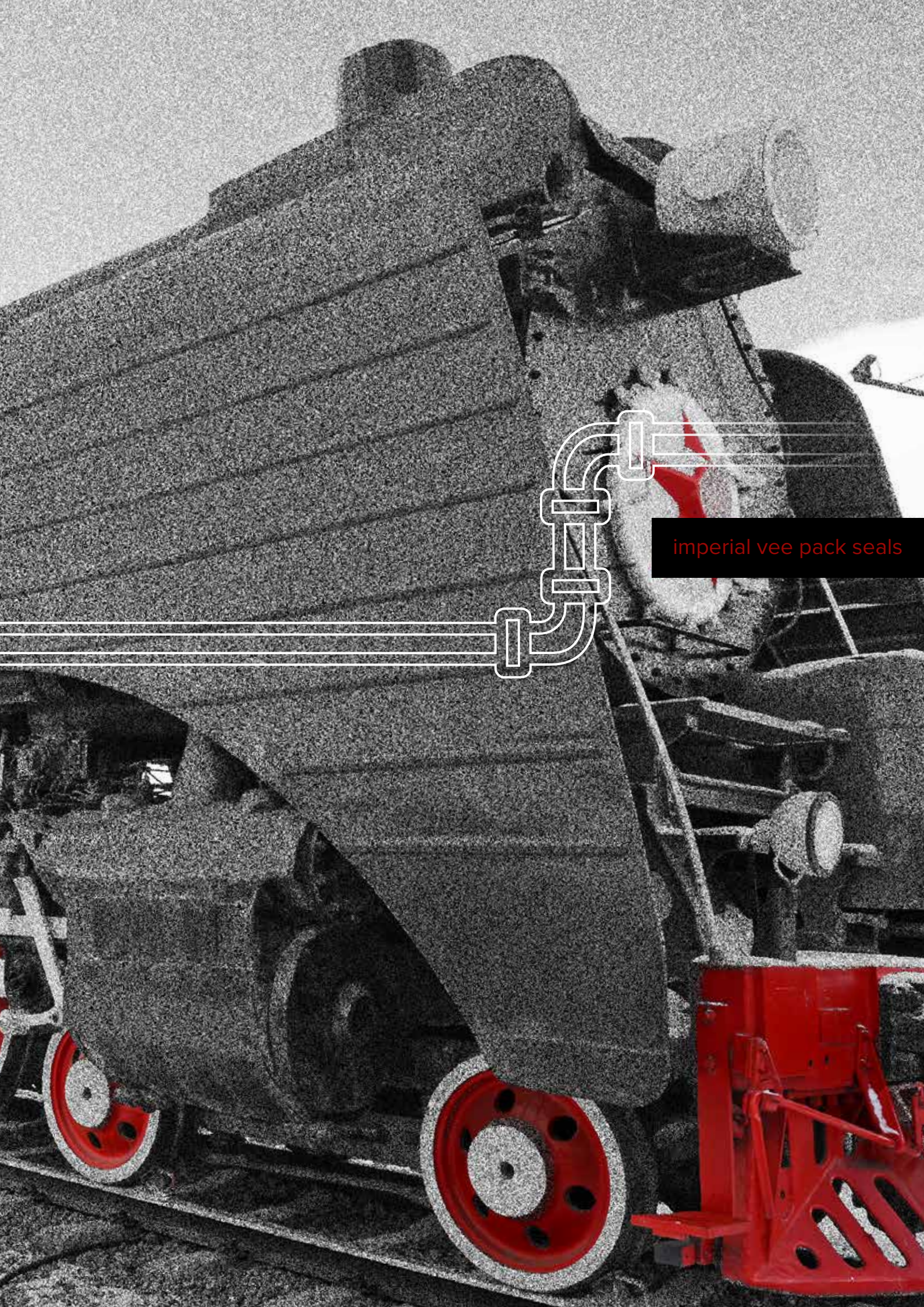
BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	13	**165.00**	140.00	46.00	14254
Pacific	9	**170.00**	140.00	39.00	13802
Pacific	9	**170.00**	145.00	35.50	14038
Hallite	11	**170.00**	150.00	40.00	14252
Pacific	9	**172.00**	140.00	54.00	14084
Hallite	13	**180.00**	150.00	60.00	14241
Pacific	9	**180.00**	152.00	45.00	14075
Hallite	11	**180.00**	160.00	40.00	14261
Hallite	13	**190.00**	160.00	60.00	44050
Pacific	13	**190.00**	160.00	60.00	14190
Pacific	9	**190.00**	170.00	24.60	34791
Hallite	11	**200.00**	180.00	40.00	13778
Hallite	13	**210.00**	180.00	60.00	44051
Pacific	13	**210.00**	180.00	60.00	14187
Hallite	9	**220.00**	200.00	40.00	14251
Pacific	9	**225.00**	200.00	33.00	35142
Pacific	9	**230.00**	195.00	36.80	13855
Hallite	13	**230.00**	200.00	60.00	14189
Pacific	9	**240.00**	210.00	31.60	14044
Hallite	13	**250.00**	220.00	62.50	44052
Pacific	13	**250.00**	220.00	62.50	14230
Pacific	9	**265.00**	235.00	40.00	13767
Pacific	9	**275.00**	250.00	33.00	35144
Pacific	9	**290.00**	258.00	42.50	35146
Hallite	13	**300.00**	270.00	62.50	14240
Pacific	9	**325.00**	300.00	33.00	35148
Pacific	9	**330.00**	300.00	38.00	35150
Pacific	9	**332.00**	300.00	41.00	35152
Pacific	11	**340.00**	310.00	46.00	15097
Pacific	9	**350.00**	320.00	43.00	14087

METRIC

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	9	**395.00**	355.00	42.10	35154
Pacific	9	**430.00**	400.00	37.50	13769
Pacific	9	**432.00**	380.00	54.10	35158
Pacific	9	**445.00**	410.00	42.57	13782
Pacific	9	**450.00**	410.00	53.00	35160
Pacific	9	**510.00**	470.00	42.00	35162
Pacific	9	**570.00**	530.00	60.75	35164
Pacific	9	**580.00**	540.00	47.00	35166
Pacific	9	**710.00**	650.00	60.45	35168

NOTES





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IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	9	**0.750**	0.375	0.750	14159
Pacific	9	**0.813**	0.313	0.763	34840
Pacific	13	**0.813**	0.438	0.750	15189
Pacific	13	**0.875**	0.500	0.859	14057
Pacific	9	**0.938**	0.563	1.000	14167
Pacific	9	**0.938**	0.625	1.000	14058
Pacific	9	**0.950**	0.625	0.660	14199
Pacific	13	**1.000**	0.375	0.942	15168
Pacific	13	**1.000**	0.500	0.968	15252
Pacific	13	**1.000**	0.625	0.859	14208
Pacific	9	**1.125**	0.500	0.834	34839
Pacific	13	**1.125**	0.625	0.968	15176
Pacific	9	**1.125**	0.750	0.630	15094
Pacific	9	**1.156**	0.938	1.403	14143
Pacific	9	**1.188**	0.438	1.075	14165
Pacific	9	**1.188**	0.688	0.875	35930
Pacific	9	**1.250**	0.500	1.200	15096
Pacific	13	**1.250**	0.625	0.875	15241
Pacific	13	**1.250**	0.688	0.688	15137
Pacific	13	**1.250**	0.750	0.968	15234
Pacific	13	**1.250**	0.875	0.859	15169
Pacific	9	**1.313**	0.813	0.968	14089
Pacific	9	**1.375**	0.750	1.106	14173
Pacific	9	**1.375**	0.875	0.968	15232
Pacific	13	**1.375**	1.000	0.859	15192
Pacific	9	**1.500**	0.750	1.156	15156
Pacific	9	**1.500**	0.875	1.156	14140
Pacific	9	**1.500**	1.000	0.968	15248
Pacific	9	**1.563**	1.188	0.920	15139
Pacific	9	**1.625**	0.750	1.000	15158

VEE PACK SEALS - SINGLE ACTING

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	9	**1.625**	0.875	1.343	14141
Pacific	9	**1.625**	1.000	1.156	15205
Pacific	13	**1.625**	1.125	0.968	15213
Pacific	9	**1.750**	0.875	1.094	15115
Pacific	9	**1.750**	1.000	0.968	14206
Pacific	9	**1.750**	1.125	1.000	15190
Pacific	9	**1.750**	1.250	0.750	15254
Pacific	11	**1.750**	1.375	0.876	14378
Pacific	13	**1.875**	1.125	1.150	15153
Pacific	11	**1.875**	1.250	1.000	15122
Pacific	13	**1.875**	1.375	0.968	15223
Pacific	9	**2.000**	0.750	1.406	14176
Pacific	9	**2.000**	1.125	1.094	14114
Pacific	11	**2.000**	1.250	0.968	15200
Pacific	9	**2.000**	1.375	1.000	15271
Pacific	13	**2.000**	1.500	0.968	15278
Pacific	9	**2.000**	1.625	0.830	14060
Pacific	9	**2.063**	1.438	0.156	13784
Pacific	9	**2.125**	1.375	1.432	14942
Pacific	9	**2.125**	1.438	0.905	14384
Pacific	13	**2.125**	1.500	1.156	15279
Pacific	13	**2.125**	1.625	0.830	15185
Pacific	13	**2.125**	1.750	0.840	14455
Pacific	9	**2.188**	1.500	0.889	14376
Pacific	9	**2.250**	1.375	1.250	15092
Pacific	13	**2.250**	1.500	1.156	14219
Pacific	13	**2.250**	1.625	1.156	14061
Pacific	9	**2.250**	1.750	0.825	14373
Pacific	13	**2.250**	1.750	0.968	15255
Pacific	9	**2.375**	1.750	1.000	14355

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	13	**2.375**	1.750	1.156	15202
Pacific	13	**2.375**	1.875	0.968	15162
Pacific	9	**2.500**	1.000	1.609	14150
Pacific	9	**2.500**	1.250	1.875	14386
Pacific	13	**2.500**	1.500	1.468	14346
Pacific	13	**2.500**	1.750	1.156	15274
Pacific	9	**2.500**	1.750	1.180	47799
Pacific	13	**2.500**	1.875	1.000	15273
Pacific	13	**2.500**	2.000	0.968	15276
Pacific	9	**2.563**	1.813	1.000	34851
Pacific	9	**2.563**	1.938	1.000	14362
Pacific	9	**2.625**	1.750	1.094	14356
Pacific	13	**2.625**	1.875	1.343	34855
Pacific	9	**2.625**	2.000	0.898	14350
Pacific	13	**2.625**	2.000	1.156	15275
Pacific	13	**2.625**	2.125	1.000	14412
Pacific	9	**2.750**	1.125	1.719	14368
Pacific	13	**2.750**	1.750	1.800	15256
Pacific	13	**2.750**	2.000	1.343	15277
Pacific	13	**2.750**	2.125	1.000	15209
Pacific	13	**2.750**	2.250	0.968	15267
Pacific	9	**2.875**	2.063	1.017	34857
Pacific	13	**2.875**	2.125	1.370	15272
Pacific	9	**2.875**	2.250	0.937	34859
Pacific	13	**2.875**	2.250	1.000	14201
Pacific	9	**2.875**	2.375	0.968	14424
Pacific	9	**2.938**	1.688	1.406	14345
Pacific	9	**3.000**	1.813	1.622	34849
Pacific	9	**3.000**	1.938	1.233	14389
Pacific	13	**3.000**	2.000	1.590	15123

VEE PACK SEALS - SINGLE ACTING

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	9	**3.000**	2.125	1.094	14413
Pacific	9	**3.000**	2.250	1.000	15257
Pacific	11	**3.000**	2.250	1.250	47093
Pacific	13	**3.000**	2.375	1.156	15188
Pacific	13	**3.000**	2.500	0.968	15264
Pacific	9	**3.063**	1.813	1.406	34853
Pacific	9	**3.125**	2.375	1.400	14210
Pacific	9	**3.125**	2.500	0.961	34861
Pacific	13	**3.125**	2.500	1.156	15262
Pacific	9	**3.188**	2.563	0.781	14392
Pacific	13	**3.250**	2.250	1.420	15114
Pacific	13	**3.250**	2.500	1.343	15266
Pacific	9	**3.250**	2.750	0.795	34863
Pacific	13	**3.250**	2.750	0.968	15246
Pacific	13	**3.375**	2.750	1.000	15179
Pacific	9	**3.500**	2.000	2.165	14395
Pacific	9	**3.500**	2.750	0.978	34867
Pacific	13	**3.500**	2.750	1.156	15258
Pacific	9	**3.500**	3.000	0.725	15261
Pacific	11	**3.500**	3.000	1.125	47816
Pacific	9	**3.625**	2.625	1.265	34865
Pacific	9	**3.625**	2.750	1.125	14407
Pacific	13	**3.625**	3.000	1.000	15131
Pacific	9	**3.750**	2.375	1.563	14427
Pacific	9	**3.750**	2.750	1.250	14396
Pacific	9	**3.750**	3.000	1.159	14287
Pacific	13	**3.750**	3.000	1.343	15265
Pacific	13	**3.750**	3.250	0.968	15215
Pacific	13	**3.875**	3.125	1.375	14195
Pacific	9	**4.000**	2.250	1.875	14420

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	9	**4.000**	2.375	1.719	14418
Pacific	9	**4.000**	2.500	0.886	14391
Pacific	13	**4.000**	3.000	1.468	15173
Pacific	9	**4.000**	3.250	0.960	14288
Pacific	13	**4.000**	3.250	1.343	15260
Pacific	13	**4.000**	3.375	1.000	15133
Pacific	13	**4.000**	3.500	0.968	15243
Pacific	13	**4.125**	3.375	1.423	15135
Pacific	9	**4.250**	3.500	1.086	34869
Pacific	13	**4.250**	3.500	1.156	15280
Pacific	13	**4.250**	3.750	0.968	14064
Pacific	9	**4.375**	3.000	1.563	14311
Pacific	9	**4.375**	3.750	0.900	34879
Pacific	13	**4.375**	3.750	1.000	15170
Pacific	9	**4.500**	3.000	1.609	14280
Pacific	9	**4.500**	3.281	1.250	14294
Pacific	9	**4.500**	3.500	1.615	15270
Pacific	9	**4.500**	3.750	1.090	14291
Pacific	13	**4.500**	3.750	1.343	15250
Pacific	9	**4.500**	3.875	1.034	15134
Pacific	13	**4.500**	4.000	0.968	15100
Pacific	9	**4.750**	3.125	1.719	14289
Pacific	9	**4.750**	3.250	1.609	14282
Pacific	9	**4.750**	4.000	1.000	14055
Pacific	13	**4.750**	4.000	1.156	15194
Pacific	13	**4.750**	4.250	0.968	15184
Pacific	13	**4.875**	4.000	1.375	15210
Pacific	9	**4.875**	4.250	1.210	14292
Pacific	9	**5.000**	3.875	1.250	14275
Pacific	13	**5.000**	4.000	1.718	15224

VEE PACK SEALS - SINGLE ACTING

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	9	**5.000**	4.250	1.650	14202
Pacific	13	**5.000**	4.375	1.200	15091
Pacific	13	**5.000**	4.500	0.968	15240
Pacific	9	**5.125**	3.875	1.658	34881
Pacific	13	**5.125**	4.500	1.019	15142
Pacific	13	**5.250**	4.250	1.750	14325
Pacific	13	**5.250**	4.375	1.575	15186
Pacific	13	**5.250**	4.500	1.156	15203
Pacific	13	**5.250**	4.750	0.968	34889
Pacific	9	**5.313**	4.500	0.983	14344
Pacific	9	**5.375**	4.000	1.563	14305
Pacific	13	**5.375**	4.375	1.575	14328
Pacific	13	**5.375**	4.500	1.312	14113
Pacific	13	**5.375**	4.750	1.156	15145
Pacific	9	**5.500**	3.500	2.125	14265
Pacific	9	**5.500**	4.375	1.327	34887
Pacific	9	**5.500**	4.500	1.218	15233
Pacific	13	**5.500**	4.750	1.343	15128
Pacific	13	**5.500**	5.000	0.968	15181
Pacific	9	**5.625**	4.500	1.250	14333
Pacific	9	**5.625**	4.625	1.750	15121
Pacific	9	**5.750**	3.813	2.250	34877
Pacific	9	**5.750**	3.938	1.921	34883
Pacific	13	**5.750**	4.750	1.531	13795
Pacific	13	**5.750**	5.000	1.156	15129
Pacific	9	**5.750**	5.250	0.968	34899
Pacific	9	**6.000**	4.500	1.609	14335
Pacific	9	**6.000**	4.750	1.530	34891
Pacific	9	**6.000**	5.000	1.218	15247
Pacific	13	**6.000**	5.250	1.156	15119

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	13	**6.000**	5.375	1.086	15102
Pacific	13	**6.000**	5.500	0.875	15178
Pacific	9	**6.125**	5.125	1.219	34897
Pacific	9	**6.125**	5.500	0.843	34903
Pacific	9	**6.250**	5.000	2.160	14342
Pacific	13	**6.250**	5.250	1.500	13787
Pacific	13	**6.250**	5.500	1.343	14085
Pacific	11	**6.250**	5.750	1.156	34905
Pacific	9	**6.375**	5.375	1.266	13788
Pacific	13	**6.375**	5.750	1.156	15147
Pacific	9	**6.375**	5.875	0.763	34909
Pacific	9	**6.500**	5.500	1.175	14334
Pacific	13	**6.500**	5.500	1.218	15218
Pacific	9	**6.500**	5.750	1.343	34907
Pacific	9	**6.500**	6.000	0.675	36155
Pacific	13	**6.500**	6.000	0.968	15214
Pacific	9	**6.750**	5.000	0.875	14313
Pacific	9	**6.750**	5.125	1.719	14306
Pacific	9	**6.750**	5.500	1.406	14312
Pacific	13	**6.750**	5.750	2.000	14207
Pacific	9	**6.750**	6.000	1.159	14209
Pacific	9	**7.000**	5.500	1.609	14303
Pacific	11	**7.000**	6.000	1.468	15099
Pacific	13	**7.000**	6.250	1.339	14014
Pacific	9	**7.000**	6.375	1.339	13867
Pacific	9	**7.000**	6.500	0.968	14180
Pacific	9	**7.125**	6.000	1.250	14319
Pacific	9	**7.125**	6.500	0.843	34917
Pacific	9	**7.250**	5.438	2.032	34901
Pacific	13	**7.250**	6.000	2.300	14320

VEE PACK SEALS - SINGLE ACTING

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	9	**7.250**	6.250	1.936	34915
Pacific	13	**7.250**	6.500	1.343	14196
Pacific	13	**7.250**	6.750	1.000	14222
Pacific	13	**7.375**	6.750	1.400	14243
Pacific	9	**7.500**	6.250	1.645	14233
Pacific	9	**7.500**	6.500	1.500	13871
Pacific	13	**7.500**	7.000	0.968	15138
Pacific	9	**7.625**	7.000	0.843	34919
Pacific	9	**7.750**	6.750	1.219	13866
Pacific	9	**8.000**	6.500	1.339	13872
Pacific	11	**8.000**	7.000	1.620	15118
Pacific	9	**8.000**	7.375	0.781	13882
Pacific	9	**8.250**	7.000	1.406	13879
Pacific	9	**8.250**	7.250	1.219	34925
Pacific	9	**8.250**	7.500	1.360	34929
Pacific	13	**8.500**	8.000	0.968	15193
Pacific	9	**8.625**	8.000	0.843	34935
Pacific	9	**8.750**	7.500	1.406	14129
Pacific	13	**8.750**	8.000	1.322	34937
Pacific	9	**8.750**	8.250	0.763	34945
Pacific	9	**8.875**	8.000	1.095	34939
Pacific	9	**9.000**	8.000	2.000	15117
Pacific	9	**9.250**	8.000	2.130	34941
Pacific	9	**9.250**	8.250	1.219	34949
Pacific	13	**9.250**	8.500	1.000	14093
Pacific	9	**9.500**	8.750	1.000	34955
Pacific	13	**9.500**	9.000	1.000	34959
Pacific	9	**9.750**	8.500	1.406	34953
Pacific	9	**9.750**	8.750	1.219	34957
Pacific	9	**9.750**	9.000	1.000	15148

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	13	**10.000**	9.000	1.750	14204
Pacific	9	**10.000**	9.250	1.000	34963
Pacific	9	**10.125**	9.500	0.843	34971
Pacific	9	**10.125**	9.625	0.763	34977
Pacific	9	**10.250**	9.500	1.000	34973
Pacific	9	**10.375**	9.750	0.843	34979
Pacific	9	**10.500**	10.000	0.763	34985
Pacific	9	**10.750**	9.750	1.219	34983
Pacific	9	**10.750**	10.000	1.000	34987
Pacific	9	**11.000**	10.250	1.000	34991
Pacific	9	**11.250**	10.250	1.219	34993
Pacific	9	**11.500**	10.500	1.219	34999
Pacific	9	**11.500**	10.750	1.000	35003
Pacific	9	**11.500**	11.000	0.763	35007
Pacific	9	**11.625**	10.000	1.719	13856
Pacific	9	**11.625**	10.625	1.219	13858
Pacific	9	**11.750**	10.500	1.406	35001
Pacific	9	**11.750**	10.750	1.219	35005
Pacific	9	**11.750**	11.000	1.000	35009
Pacific	9	**12.000**	11.500	0.763	35017
Pacific	9	**12.125**	11.000	1.250	13860
Pacific	9	**12.250**	11.000	1.406	35013
Pacific	9	**12.250**	11.500	1.000	35019
Pacific	9	**12.500**	11.250	1.531	35015
Pacific	9	**12.500**	11.500	1.219	35021
Pacific	9	**12.500**	12.000	0.763	35025
Pacific	9	**12.750**	12.000	1.000	35027
Pacific	9	**13.250**	12.000	1.406	13889
Pacific	9	**13.250**	12.500	1.000	35029
Pacific	9	**13.500**	12.000	1.609	13847

VEE PACK SEALS - SINGLE ACTING

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	9	**13.500**	12.500	1.219	35031
Pacific	9	**13.750**	12.000	1.875	13876
Pacific	9	**13.750**	12.500	1.875	35033
Pacific	9	**14.000**	11.500	2.531	35023
Pacific	9	**14.000**	12.000	2.125	13909
Pacific	9	**14.000**	12.750	2.000	35035
Pacific	9	**15.000**	13.000	2.468	35037
Pacific	9	**15.000**	13.500	1.609	13914
Pacific	9	**15.000**	13.750	1.406	13915
Pacific	9	**15.000**	14.000	1.219	14024
Pacific	9	**15.250**	14.000	1.717	35039
Pacific	9	**16.000**	14.500	1.609	13919
Pacific	9	**16.000**	15.000	1.330	35041
Pacific	9	**16.750**	15.000	1.875	13921
Pacific	9	**17.000**	16.000	1.219	13924
Pacific	9	**17.250**	16.000	1.406	13925
Pacific	9	**17.500**	16.000	1.734	13926
Pacific	9	**19.500**	17.500	2.468	35043
Pacific	9	**19.500**	18.000	1.609	13888
Pacific	9	**19.750**	18.000	1.875	13916
Pacific	9	**20.000**	18.500	1.626	35045
Pacific	9	**20.250**	19.000	1.406	13891
Pacific	9	**20.750**	19.500	1.639	35047
Pacific	9	**23.000**	21.000	2.468	35049
Pacific	9	**26.750**	25.250	1.609	14194
Pacific	9	**29.750**	28.000	1.875	13899
Pacific	9	**30.000**	28.250	2.124	35051
Pacific	9	**30.000**	28.500	1.609	13900
Pacific	9	**46.750**	45.000	2.910	13789

imperial cup seals

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	LCW	**0.375**	0.000	0.179	11617
Pacific	66	**0.375**	0.000	0.250	36387
Pacific	LCO	**0.438**	0.000	0.175	11618
Pacific	LCW	**0.438**	0.000	0.175	11619
Pacific	PU	**0.438**	0.000	0.188	35808
Pacific	66	**0.438**	0.000	0.250	11525
Pacific	66	**0.500**	0.000	0.250	11526
Pacific	PU	**0.500**	0.000	0.250	29678
Pacific	LCO	**0.500**	0.000	0.278	11620
Pacific	LCW	**0.500**	0.000	0.278	11621
Hallite	67	**0.500**	0.000	0.500	36532
Pacific	66	**0.563**	0.000	0.250	36388
Pacific	67	**0.563**	0.000	0.250	30277
Pacific	LCO	**0.563**	0.000	0.270	11622
Pacific	LCW	**0.563**	0.000	0.270	11623
Pacific	LCO	**0.590**	0.000	0.368	34767
Pacific	LCW	**0.625**	0.000	0.295	11625
Pacific	66	**0.625**	0.000	0.313	11527
Pacific	PU	**0.625**	0.000	0.375	29679
Pacific	67	**0.625**	0.000	0.500	30278
Pacific	66	**0.688**	0.000	0.280	36389
Pacific	LCO	**0.688**	0.000	0.290	11626
Pacific	LCW	**0.688**	0.000	0.290	11627
Pacific	67	**0.750**	0.000	0.250	30279
Pacific	LCO	**0.750**	0.000	0.335	11628
Pacific	LCW	**0.750**	0.000	0.366	11629
Pacific	66	**0.750**	0.000	0.375	11528
Pacific	PU	**0.750**	0.000	0.750	29680
Pacific	66	**0.813**	0.000	0.313	36390
Pacific	LCO	**0.813**	0.000	0.315	11630

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	LCW	**0.875**	0.000	0.346	11632
Pacific	66	**0.875**	0.000	0.375	11530
Pacific	PU	**0.875**	0.000	0.375	29681
Pacific	LCO	**0.875**	0.000	0.422	11631
Hallite	67	**0.875**	0.375	0.250	36533
Pacific	LCO	**0.938**	0.000	0.350	11633
Pacific	66	**0.938**	0.000	0.375	36391
Pacific	LCW	**0.938**	0.000	0.412	11634
Pacific	LCW	**1.000**	0.000	0.380	11636
Pacific	LCO	**1.000**	0.000	0.425	11635
Pacific	66	**1.000**	0.000	0.430	36392
Pacific	PU	**1.000**	0.000	0.438	29682
Hallite	67	**1.000**	0.000	0.500	30280
Pacific	67	**1.000**	0.250	0.313	30330
Pacific	66	**1.000**	0.250	0.375	11531
Pacific	LCW	**1.000**	0.250	0.500	11637
Pacific	LCW	**1.063**	0.000	0.750	11639
Pacific	66	**1.125**	0.000	0.430	36393
Pacific	PU	**1.125**	0.000	0.438	29683
Pacific	LCW	**1.125**	0.000	0.457	11642
Pacific	LCO	**1.125**	0.000	0.490	11641
Hallite	67	**1.125**	0.000	0.500	36534
Hallite	66	**1.125**	0.250	0.375	11535
Pacific	LCW	**1.125**	0.250	0.563	11643
Pacific	LCW	**1.188**	0.000	0.750	11644
Pacific	66	**1.188**	0.438	0.375	11537
Pacific	LCO	**1.250**	0.000	0.355	11646
Pacific	66	**1.250**	0.000	0.430	36394
Pacific	PU	**1.250**	0.000	0.438	29684
Hallite	67	**1.250**	0.000	0.500	30283

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	LCW	**1.250**	0.000	0.610	11647
Hallite	66	**1.250**	0.250	0.375	11539
Pacific	LCW	**1.250**	0.500	0.625	11648
Pacific	PU	**1.313**	0.000	0.313	36152
Pacific	LCO	**1.313**	0.000	1.000	11649
Pacific	66	**1.375**	0.000	0.430	36397
Pacific	67	**1.375**	0.000	0.438	36535
Pacific	PU	**1.375**	0.000	0.438	29685
Pacific	LCO	**1.375**	0.000	0.617	11650
Hallite	66	**1.375**	0.250	0.438	11541
Pacific	LCW	**1.375**	0.375	0.573	11651
Pacific	PU	**1.438**	0.000	0.438	35809
Pacific	LCW	**1.438**	0.000	0.491	11654
Pacific	LCO	**1.438**	0.000	1.000	11653
Hallite	66	**1.438**	0.625	0.500	11543
Hallite	67	**1.500**	0.000	0.438	30284
Pacific	PU	**1.500**	0.000	0.438	29686
Pacific	66	**1.500**	0.000	0.500	36398
Pacific	LCW	**1.500**	0.000	0.556	11656
Pacific	LCO	**1.500**	0.000	0.596	11655
Hallite	66	**1.500**	0.250	0.500	11544
Pacific	LCW	**1.500**	0.500	0.596	11657
Pacific	LCO	**1.563**	0.000	0.628	11659
Pacific	66	**1.625**	0.000	0.500	11546
Hallite	67	**1.625**	0.000	0.500	30285
Pacific	LCW	**1.625**	0.000	0.625	11662
Pacific	LCO	**1.625**	0.000	1.000	11661
Hallite	66	**1.625**	0.250	0.500	11545
Pacific	67	**1.625**	0.500	0.438	30332
Pacific	LCW	**1.625**	0.500	0.625	11663

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	PU	**1.750**	0.000	0.438	29687
Pacific	66	**1.750**	0.000	0.500	36399
Hallite	67	**1.750**	0.000	0.500	30286
Pacific	LCO	**1.750**	0.000	0.643	11665
Pacific	LCW	**1.750**	0.000	0.685	11666
Hallite	66	**1.750**	0.250	0.500	11547
Pacific	LCW	**1.750**	0.500	0.634	11667
Pacific	PU	**1.875**	0.000	0.438	35810
Pacific	66	**1.875**	0.000	0.500	36401
Hallite	67	**1.875**	0.000	0.500	30287
Pacific	LCO	**1.875**	0.000	0.623	11669
Hallite	66	**1.875**	0.375	0.500	11549
Pacific	LCW	**1.875**	0.500	0.692	11670
Pacific	PU	**1.938**	0.000	0.438	35811
Pacific	LCO	**1.938**	0.000	0.587	35363
Pacific	LCW	**1.938**	0.500	0.179	11671
Pacific	66	**2.000**	0.000	0.500	36402
Hallite	67	**2.000**	0.000	0.500	30288
Pacific	PU	**2.000**	0.000	0.500	29688
Pacific	LCW	**2.000**	0.000	0.688	11673
Pacific	LCO	**2.000**	0.000	0.720	11672
Hallite	66	**2.000**	0.375	0.500	11550
Pacific	LCW	**2.000**	0.500	0.717	11674
Pacific	66	**2.000**	0.625	0.810	11522
Pacific	66	**2.000**	0.750	0.500	47091
Pacific	66	**2.000**	1.000	0.500	35922
Pacific	66	**2.125**	0.000	0.500	36403
Pacific	PU	**2.125**	0.000	0.500	35812
Pacific	LCO	**2.125**	0.000	0.720	11676
Hallite	66	**2.125**	0.250	0.625	11551

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	LCW	**2.125**	0.500	0.700	11677
Pacific	LCO	**2.188**	0.500	0.547	34588
Pacific	66	**2.250**	0.000	0.500	36150
Pacific	67	**2.250**	0.000	0.500	30289
Pacific	PU	**2.250**	0.000	0.500	29689
Pacific	LCO	**2.250**	0.000	1.000	11678
Hallite	66	**2.250**	0.250	0.750	11553
Pacific	66	**2.250**	0.500	0.625	36151
Pacific	LCW	**2.250**	0.500	0.750	11679
Pacific	66	**2.250**	1.250	0.500	11554
Pacific	66	**2.375**	0.000	0.500	36405
Pacific	PU	**2.375**	0.000	0.500	30511
Pacific	LCO	**2.375**	0.000	0.665	11680
Hallite	66	**2.375**	0.500	0.750	11558
Pacific	LCW	**2.375**	0.500	0.765	11681
Pacific	LCW	**2.438**	0.500	0.700	11682
Pacific	LCO	**2.438**	0.500	1.000	34768
Hallite	67	**2.500**	0.000	0.500	30290
Pacific	PU	**2.500**	0.000	0.500	29690
Pacific	LCO	**2.500**	0.000	0.788	11683
Hallite	66	**2.500**	0.500	0.625	11560
Pacific	LCW	**2.500**	0.500	0.750	11684
Pacific	LCO	**2.563**	0.000	0.700	11685
Pacific	LCW	**2.563**	0.000	1.000	11686
Pacific	66	**2.625**	0.000	0.500	36408
Pacific	PU	**2.625**	0.000	0.500	30512
Hallite	66	**2.625**	0.250	0.750	11562
Pacific	LCW	**2.625**	0.500	0.750	11687
Pacific	66	**2.625**	0.875	0.810	11523
Pacific	66	**2.750**	0.000	0.500	36409

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	67	**2.750**	0.000	0.500	30291
Pacific	PU	**2.750**	0.000	0.500	29691
Pacific	LCO	**2.750**	0.000	0.567	11688
Hallite	66	**2.750**	0.500	0.750	11563
Pacific	LCW	**2.750**	0.500	0.875	11689
Pacific	66	**2.875**	0.000	0.500	36410
Pacific	PU	**2.875**	0.000	0.500	30513
Pacific	LCO	**2.875**	0.000	0.674	11690
Hallite	66	**2.875**	0.500	0.750	11565
Pacific	LCW	**2.875**	0.500	0.875	11691
Pacific	66	**2.875**	1.000	0.500	11566
Pacific	LCO	**2.938**	0.000	0.754	11692
Hallite	67	**3.000**	0.000	0.500	30293
Pacific	66	**3.000**	0.000	0.625	36411
Pacific	PU	**3.000**	0.000	0.625	29692
Pacific	LCO	**3.000**	0.000	0.835	11693
Hallite	66	**3.000**	0.500	0.625	11567
Pacific	LCW	**3.000**	0.500	0.836	11694
Pacific	66	**3.125**	0.000	0.625	36412
Hallite	66	**3.125**	0.500	0.750	11569
Pacific	LCW	**3.125**	0.500	0.785	11695
Pacific	66	**3.125**	0.875	0.750	11570
Pacific	LCW	**3.188**	0.500	0.765	34769
Pacific	66	**3.250**	0.000	0.625	36413
Hallite	67	**3.250**	0.000	0.625	30294
Pacific	PU	**3.250**	0.000	0.625	29693
Pacific	LCO	**3.250**	0.000	1.000	11696
Hallite	66	**3.250**	0.500	0.750	11571
Pacific	LCW	**3.250**	0.500	0.753	11697
Pacific	66	**3.250**	1.000	0.810	11524

IMPERIAL

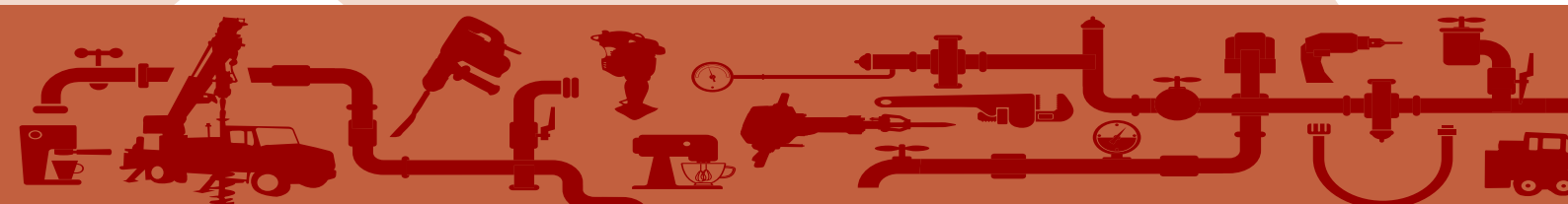
BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	66	**3.375**	0.000	0.625	36414
Pacific	PU	**3.375**	0.000	0.625	35813
Pacific	LCW	**3.375**	0.500	1.000	11698
Pacific	66	**3.375**	0.750	0.625	11572
Pacific	66	**3.500**	0.000	0.625	36415
Hallite	67	**3.500**	0.000	0.625	30295
Pacific	PU	**3.500**	0.000	0.625	29694
Pacific	LCO	**3.500**	0.000	0.855	11699
Hallite	66	**3.500**	0.250	0.750	11574
Pacific	LCW	**3.500**	0.500	0.943	11700
Pacific	LCW	**3.563**	0.000	0.850	11701
Pacific	PU	**3.625**	0.000	0.625	30514
Pacific	LCW	**3.625**	0.500	1.000	11702
Hallite	66	**3.625**	0.750	0.750	11575
Pacific	66	**3.625**	2.375	0.688	11577
Pacific	66	**3.625**	2.563	0.625	11576
Hallite	67	**3.750**	0.000	0.500	30296
Pacific	66	**3.750**	0.000	0.625	36416
Pacific	PU	**3.750**	0.000	0.625	29695
Pacific	LCO	**3.750**	0.000	1.000	11703
Hallite	66	**3.750**	0.500	0.750	11578
Pacific	LCW	**3.750**	0.500	1.000	11704
Pacific	66	**3.875**	0.000	0.625	36417
Pacific	67	**3.875**	0.000	0.625	30515
Hallite	66	**3.875**	0.500	0.500	11579
Pacific	LCW	**3.875**	0.500	1.000	11705
Pacific	66	**3.875**	1.125	0.810	11516
Pacific	LCW	**3.938**	0.500	1.000	11706
Hallite	67	**4.000**	0.000	0.500	30298
Pacific	66	**4.000**	0.000	0.625	36418

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	67	**4.000**	0.000	0.625	30297
Pacific	LCO	**4.000**	0.000	0.917	11707
Hallite	66	**4.000**	0.500	0.750	11580
Pacific	LCW	**4.000**	0.500	1.000	11708
Hallite	66	**4.000**	1.250	1.000	11582
Hallite	66	**4.125**	0.500	0.875	11583
Pacific	LCW	**4.125**	0.500	1.000	11709
Pacific	PU	**4.188**	0.000	0.625	35814
Pacific	LCO	**4.188**	0.000	1.000	11710
Pacific	66	**4.250**	0.000	0.625	36419
Pacific	67	**4.250**	0.000	0.625	41650
Pacific	PU	**4.250**	0.000	0.625	29697
Pacific	LCO	**4.250**	0.000	1.000	11711
Hallite	66	**4.250**	0.500	0.750	11584
Pacific	LCW	**4.250**	0.500	1.000	11712
Pacific	66	**4.250**	2.500	0.625	11585
Pacific	66	**4.375**	0.000	0.750	11586
Pacific	LCW	**4.375**	0.500	1.000	11713
Pacific	66	**4.500**	0.000	0.625	36424
Hallite	67	**4.500**	0.000	0.625	30299
Pacific	PU	**4.500**	0.000	0.625	29698
Pacific	LCO	**4.500**	0.000	1.000	11714
Hallite	66	**4.500**	0.500	0.750	11587
Pacific	LCW	**4.500**	0.500	1.000	11715
Pacific	LCW	**4.625**	0.500	1.000	11716
Pacific	66	**4.625**	0.688	0.750	11589
Pacific	66	**4.750**	0.000	0.625	36425
Pacific	67	**4.750**	0.000	0.625	41651
Pacific	PU	**4.750**	0.000	0.625	29699
Pacific	67	**4.750**	0.000	0.750	30516

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	LCO	**4.750**	0.000	1.000	11717
Hallite	66	**4.750**	0.500	0.750	11590
Pacific	LCW	**4.750**	0.500	1.000	11718
Pacific	66	**4.750**	1.250	0.810	11517
Pacific	66	**4.875**	0.000	0.625	36426
Pacific	LCW	**4.875**	0.500	1.000	11719
Pacific	66	**4.875**	1.750	1.000	11591
Pacific	PU	**5.000**	0.000	0.563	29700
Hallite	67	**5.000**	0.000	0.625	30300
Pacific	66	**5.000**	0.000	0.750	35925
Pacific	LCO	**5.000**	0.000	0.875	11720
Hallite	66	**5.000**	0.500	0.750	11592
Pacific	LCW	**5.000**	0.500	1.000	11721
Pacific	PU	**5.125**	0.000	0.750	35815
Pacific	LCO	**5.125**	0.000	1.000	35118
Pacific	LCW	**5.125**	0.500	1.000	11722
Pacific	66	**5.125**	1.000	0.688	34795
Pacific	66	**5.250**	0.000	0.750	35927
Pacific	PU	**5.250**	0.000	0.750	35816
Pacific	LCO	**5.250**	0.000	1.000	11723
Hallite	66	**5.250**	0.500	0.750	11593
Pacific	LCW	**5.250**	0.500	1.000	11724
Pacific	66	**5.250**	3.750	0.750	11594
Pacific	PU	**5.375**	0.000	0.750	35817
Pacific	LCW	**5.375**	0.500	1.000	11725
Pacific	66	**5.375**	1.250	0.750	11595
Pacific	66	**5.500**	0.000	0.750	36427
Hallite	67	**5.500**	0.000	0.750	30301
Pacific	PU	**5.500**	0.000	0.750	29701
Pacific	LCO	**5.500**	0.000	1.000	11726



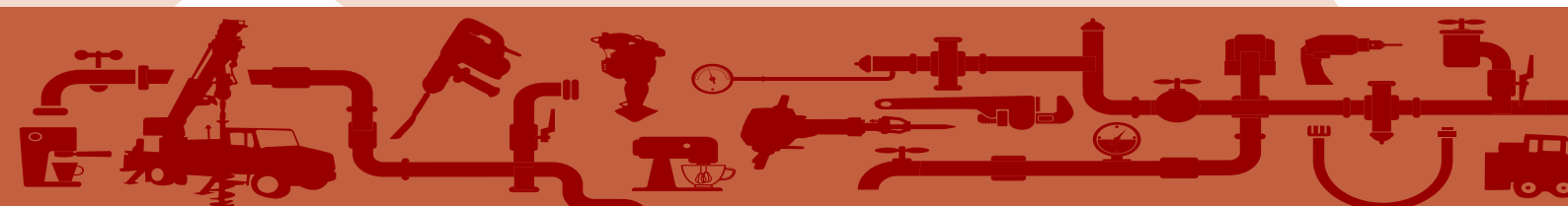
CUP SEALS - SINGLE ACTING

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Hallite	66	**5.500**	0.500	0.750	11596
Pacific	LCW	**5.500**	0.500	1.000	11727
Pacific	LCW	**5.625**	0.500	1.000	11728
Pacific	66	**5.750**	0.000	0.750	36428
Pacific	PU	**5.750**	0.000	0.750	35818
Hallite	66	**5.750**	0.500	0.750	11597
Pacific	LCW	**5.750**	0.500	1.000	11729
Pacific	66	**5.750**	1.500	0.810	11519
Pacific	66	**5.875**	0.000	0.750	11598
Pacific	66	**6.000**	0.000	0.750	36429
Hallite	67	**6.000**	0.000	0.750	30302
Pacific	PU	**6.000**	0.000	0.750	35819
Pacific	LCO	**6.000**	0.000	1.000	11730
Hallite	66	**6.000**	0.500	0.750	11600
Pacific	LCW	**6.000**	0.500	1.000	11731
Pacific	66	**6.125**	3.750	0.750	11601
Pacific	LCO	**6.125**	4.625	1.000	11732
Pacific	66	**6.250**	0.000	0.750	36439
Pacific	PU	**6.250**	0.000	0.750	35820
Pacific	66	**6.250**	5.000	0.688	11603
Pacific	66	**6.375**	0.000	0.750	36430
Pacific	66	**6.500**	0.000	0.750	11605
Pacific	67	**6.500**	0.000	0.750	30517
Pacific	LCO	**6.500**	0.000	1.000	11733
Hallite	66	**6.500**	0.500	0.875	34590
Pacific	66	**6.750**	0.000	0.750	36431
Pacific	PU	**6.750**	0.000	0.750	35821
Pacific	66	**7.000**	0.000	0.750	36432
Hallite	67	**7.000**	0.000	0.750	30303
Pacific	PU	**7.000**	0.000	0.750	38330

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	LCO	**7.000**	0.000	1.000	11734
Pacific	LCW	**7.000**	0.500	1.000	11735
Hallite	66	**7.000**	1.000	1.070	11607
Pacific	66	**7.000**	2.750	1.000	11520
Pacific	66	**7.250**	0.000	0.750	11609
Pacific	PU	**7.250**	0.000	0.750	35822
Pacific	66	**7.500**	0.000	0.750	11610
Pacific	PU	**7.500**	0.000	0.750	35823
Pacific	66	**7.750**	0.000	0.750	36433
Pacific	PU	**7.750**	0.000	0.750	35824
Hallite	67	**8.000**	0.000	0.750	30304
Pacific	66	**8.000**	0.000	1.000	25586
Pacific	LCO	**8.000**	0.000	1.250	11736
Pacific	LCW	**8.000**	0.500	1.000	11737
Pacific	66	**8.000**	1.000	0.875	11612
Pacific	LCO	**8.125**	6.000	1.125	24096
Pacific	66	**8.250**	2.750	1.000	11521
Pacific	66	**8.500**	0.000	1.000	11613
Pacific	66	**9.000**	0.000	1.000	11614
Pacific	66	**9.000**	0.000	1.000	36434
Pacific	PU	**9.000**	0.000	1.000	30518
Pacific	LCO	**9.000**	0.000	1.250	11738
Pacific	67	**9.500**	0.000	1.000	30519
Pacific	66	**9.750**	0.000	1.000	36435
Pacific	66	**10.000**	0.000	0.750	11533
Pacific	LCO	**10.000**	0.000	1.250	11638
Pacific	66	**10.000**	6.000	0.875	11532
Pacific	67	**10.000**	8.250	0.625	30282
Pacific	66	**10.250**	0.000	1.000	36436
Pacific	66	**10.500**	0.000	1.000	36437



CUP SEALS - SINGLE ACTING

IMPERIAL

BRAND	TYPE	HOUSING DIMENSIONS			
			GROOVE DETAIL		
		OD A	ID B	HEIGHT C	PART NO.
Pacific	66	**11.000**	0.000	1.000	11534
Pacific	LCO	**11.000**	0.000	1.250	11640
Pacific	66	**11.500**	0.000	1.000	36438
Pacific	66	**12.000**	0.000	1.000	11538
Pacific	67	**12.000**	0.000	1.000	30507
Pacific	LCO	**12.000**	0.000	1.250	11645
Pacific	PU	**13.000**	0.000	1.250	36308
Pacific	66	**13.000**	2.000	1.000	11540
Pacific	LCO	**14.000**	0.000	1.250	11652
Pacific	66	**14.000**	10.000	0.875	11542
Pacific	67	**15.000**	0.000	1.000	30508
Pacific	LCO	**15.000**	0.000	1.250	11658
Pacific	LCO	**16.000**	0.000	1.250	11660
Pacific	LCO	**17.000**	0.000	1.250	11664
Pacific	LCO	**18.000**	0.000	1.250	11668
Pacific	66	**18.000**	14.000	0.875	11548
Pacific	LCO	**20.000**	0.000	1.500	11675

CUSTOM SEALS - ORDER FORM

pacific seals
p: 0800 822 722 www.pacificseals.co.nz e: info@pacificseals.co.nz

FORMA

CUSTOM SEAL DESIGN AND MANUFACTURE

by Pacific Seals

We manufacture using Seal Maker® The system for flexible seal production

Forma is our integrated on-demand, in house design and manufacture service, allowing us the flexibility to deliver custom seals for your time critical projects. With over 300 materials and sizes in stock, Forma is able to immediately get started on the design and manufacture virtually any seal to your exact requirements.
A state of the art CAD/CAM system from Seal-Maker International is the backbone of this service, and has been the trusted name in custom seal manufacturing since 1997.

Wipers

Profile	Type
	WR01
	WR01A
	WR02
	WR02A
	WR02B
	WR02C
	WR02D
	WR03
	WR04
	WR07
	WR08
	WR11
	WR12
	WR13
	WR13_E2
	WR14
	WR15
	WR17
	WR18

Customized seals

Profile	Profile

Rod seals

Profile	Type
	RS01
	RS01A
	RS01B
	RS01C
	RS02
	RS02A
	RS02B
	RS02C
	RS03
	RS04
	RS05
	RS08
	RS09
	RS09A
	RS09B
	RS91
	RS91B
	RS16
	RS17
	RS17A
	RS17B
	RS17C
	RS17D
	RS17E
	RS19
	RS19A
	RS20
	RS31-33
	RS35

Piston seals

Profile	Type
	PS01
	PS01A
	PS01B
	PS01C
	PS02
	PS02A
	PS03
	PS04
	PS05
	PS08
	PS08A
	PS08B
	PS08C
	PS08D
	PS08E
	PS08F
	PS81
	PS09
	PS09A
	PS16
	PS16A
	PS17
	PS17A
	PS17B
	PS19
	PS19A
	PS20
	PS23

Symmetrical seals

Profile	Type
	PRS06
	PRS06A
	PRS06B
	PRS06C
	PRS06D
	PRS06E
	PRS07
	PRS10SP
	PRS10-12
	PRS13-15
	PRS18
	PRS19
	PRS19B
	PRS19C
	PRS19D
	PRS22
	PRS25-27
	PRS99

Back-up rings

Profile	Type
	BUR08
	BUR09
	BUR10
	BUR11
	BUR12
	BUR13

Guide rings

Profile	Type
	BWR01
	BWR01A
	BWR03
	BWR04
	BWR05
	BWR06
	BWR07
	BWR08
	BWR09

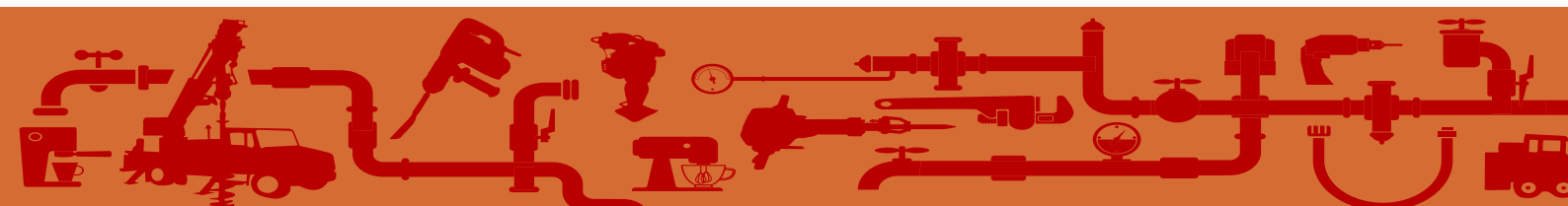
Static seals and O-rings

Profile	Type
	FL01A
	FL02B
	FL03
	FL06
	FL07
	OR
	ORH
	ORV
	QR01
	QR02
	SS01

Rotary seals

Profile	Type
	OS01
	OS02
	OS03
	OS08
	OS08A
	R03
	R04
	R04A
	R05
	R05A
	VR06
	VR07
	R08
	R08D
	R09
	R09A
	R10
	R10A
	R11

These profiles pictured are just some of our standard seal profiles. If you have a specific requirement, or require our specialised design input, please call us. We can help advise on the best profile and materials for your project.



FORMA

CUSTOM SEAL ORDER FORM

Scan or photocopy this page,
or contact us for an order pad

All measurements should be taken from metal.

Company: _____

Branch/Contact: _____

Order#: _____

REQUIRED INFO

Media: Oil - Water - Air - Brake Fluid / Glycol

Seal Profile: (refer back page) _____

Seal Type: (wiper, rod seal etc.) _____

Quantity: _____

Housing Type: **W** **X** **Y** **Z**

Metal Sizes:

OD _____ ID _____

A _____ B _____ C _____

D _____ E _____ F _____

G _____

Extra information

Speed: _____

Temperature Range: **°C**: _____

Material: _____

Pressure: _____

Are there pressure spikes **YES / NO**

Extrusion Gap:

Diameter gap between metal parts

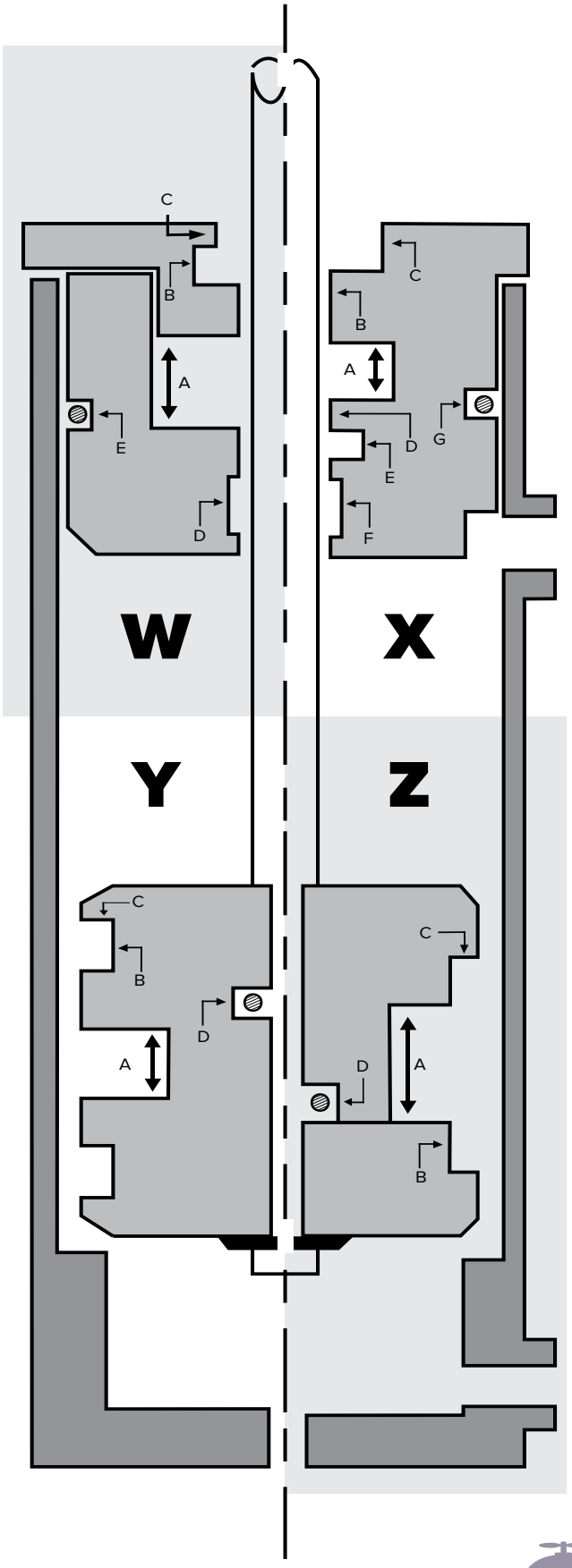
Rod & Gland: _____

Piston & Bore: _____

Friction and Holding: Is stiction a concern? **YES / NO**
Will the seal need to hold load for extended periods? **YES / NO**

Comments/ previous job or order#

_____



NOTES

About Pacific Seals

Pacific Seals is New Zealand's premier seal distributor and manufacturer. Established by a hydraulics engineer in 1998, Pacific Seals rapidly grew to become New Zealand's most trusted supplier of hydraulic and pneumatic seals. Our dedication to technical excellence and customer service has continued to drive the team and Pacific Seals now supplies thousands of customers around the country.

In April 2015, Pacific Seals was acquired by Pudney and Lee Ltd, and now operates as a division thereof. Pudney and Lee has been supplying the highest quality electrical goods and accessories to New Zealand for over 60 years, and our total dedication to customer service has seen us continuously top the industry awards year after year.

Pudney and Lee brings more than half a century of success in marketing, distribution and service to Pacific Seals. We are looking forward to growing and developing Pacific Seals' current business and expanding our industrial market focus.

About Single Acting Piston Seals

Piston Seals or Piston Rings are used in hydraulic cylinders for fluid sealing and are designed to ensure that pressurised fluid does not leak across the cylinder head as the system pressure pushes the piston down the cylinder bore.

The choice of piston seal is decided by the way in which the cylinder operates. For a cylinder which is exclusively single-acting, capable of sealing dynamic pressure from one side (unidirectional), it is always best to choose the type of seal designed to provide optimum sealing qualities for single-acting functions.

A piston design where two single-acting seals on the piston for a double-acting cylinder are used can easily give rise to a breakdown. The reason is that a very high pressure can be trapped between the seals we recommend that specifically designed piston seals be used, e.g. Type 606.

Piston seals, both single and double-acting, can be designed for and used with integrated or separate back-up rings and guide rings.

Hallite offers a wide range of piston seals that provide the ultimate in leakage control. Piston seals are usually manufactured in high performance polyurethane Hythane® 181, Hallprene® rubber/fabric composite or polyester elastomer.

About Single Acting Rod Seals

The rod seal is the most critical seal on any type of fluid power equipment preventing leakage of fluid from within the cylinder to the outside. Leakage through the rod seal can reduce equipment performance, and also in extreme cases can cause environmental issues.

Hallite offers a wide range of hydraulic rod seals for both single-acting and double-acting systems. These include a unique profiled NBR energised high performance polyurethane 181 and a spoecifically designed polyacetal anti-extrusion ring.

Particular attention should be paid to pair the rod seal and the wiper for the best sealing performance. If a less aggressive rod seal is paired with an aggressive wiper, the wiper can scrape off the microscopically thin film of oil that remains on the rod in microscopic surface imperfections during the return stroke, resulting in system leakage.

Pacific Seals
a division of
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Gracefield, Lower Hutt
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