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# Fitco Engineers Pvt. Ltd.

# Fitco Hydraulic Seals

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## Fitco Sealing Solutions

### For Requirement of O Rings & Oil Seals

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- Introduction & Seal Guide
- Sealing Applications
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- Material Properties
- Hydraulic Seal Kits
- Standard Sizes

## Introduction

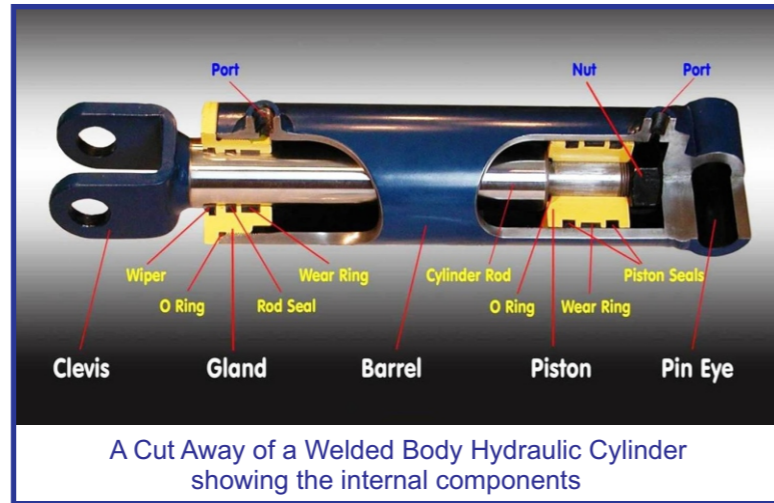
Fitco hydraulic sealing products provides the wide range of products to perform the sealing functions in all types of hydraulic equipments for dynamic reciprocating, oscillating or very slow rotational motion and which are based on the design, function and service life of hydraulic and pneumatic cylinders and systems.

Fitco sealing elements are used where there is leakage, resistance to wear and gap extrusion, resistance to process media, resistance to high and low temperatures, low friction, compact form and simple installation are demanded for the requirements of industry for a functional sealing solution.



## Fitco Seal Selection Guide

Fitco provides seals for your requirement usually for the rod, ram, gland or piston, seals are of numerous profiles and sizes depending on their application as required for performance



## Fitco Product Range

- Piston Seals** - prevent leakage from one side to other, seals between the reciprocating piston and cylinder bore.
- Rod/Gland Seals** - prevent leakage from the rod end, seal around the reciprocating rod or ram.
- Wipers/Scrapers** - stop external contaminants from being drawn inside with the rod, such as dust, dirt or water.
- Wear Rings** - provided support to the piston or ram under lateral loads.
- O Rings** - prevent leakage from joints between the barrel & end joints also used as static seal.

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We provide large inventory of Seals and O Rings to satisfy our customer requirements.

**FITCO** specialises in O Rings, Oil Seals, Hydraulic Seals, Sealing Elements and are catering to diverse industrial requirements.

**FITCO** Manufactures over 90 standard profiles, however our range is continually expanding, special shapes and sizes are manufactured as per your specifications.



## Quality Policy

Continuous commitment to achieve customer satisfaction by supplying quality products, remaining cost effective. To continually improve QMS by adoption of best technology options, by involving the employees & organization as a whole. FITCO as a team are committed to our customer's success & prosperity.

## Shelf life of Elastomer

The shelf life of seals depends to a large extent on the polymer type.

- EPDM - 8 years
- PTFE unlimited
- CR, NBR - 6 years
- FKM, VMQ - 10 years
- AU, TFE/P, Thermoplastics - 4 years

Extension of the shelf life is possible by a checkup after the above periods.

Seals are often stored for longer time periods, wrong storage conditions may change the physical properties of elastomers, like hardening, softening, crack initiation, breakage or other degradation they can become unusable.

Material deterioration is due to certain factors such as deformation, high temperatures, contact with oxygen, ozone, light, humidity or other media.

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WIPER SEAL:MC-WR		
Material : MS + NBR		
Bore Dia	Grove Dia	Width
16	26	5/8
18	28	7/10
20	30	7/10
22	32	7/10
25	35	7/10
28	38	5/7
30	40	5/7
32	42	5/7
35	45	7/10
36	45	7/10
40	50	7/10
45	55	7/10
50	60	7/10
55	65	7/10
56	66	7/10
60	70	7/10
63	73	7/10
63	75	7/10
65	75	7/10
70	80	7/10
75	85	7/10
80	90	7/10
85	95	7/10
90	100	7/10
95	105	7/10
100	110	7/10
110	120	7/10
120	130	7/10
125	140	9/12
130	145	9/12
140	155	9/12
150	165	9/12
160	175	9/12
170	185	10/14
180	195	10/14
200	220	12/16
240	260	12/16

O RINGS : OR		
Material: NBR+EPDM+Viton+Silicon		
Fitco Ref no.	Inner Dia	Width
006	2.9	1.78
007	3.68	1.78
008	4.47	1.78
009	5.29	1.78
010	6.07	1.78
011	7.65	1.78
012	9.25	1.78
110	9.19	2.62
111	10.7	2.62
112	12.3	2.62
113	13.9	2.62
114	15.5	2.62
115	17.1	2.62
116	18.7	2.62
210	18.6	3.53
211	20.2	3.53
212	21.8	3.53
213	23.3	3.53
214	24.9	3.53
215	26.5	3.53
216	28.1	3.53
217	29.7	3.53
218	31.3	3.53
219	32.9	3.53
220	34.5	3.53
221	36.0	3.53
222	37.6	3.53
325	37.4	5.33
326	40.6	5.33
327	43.8	5.33

These are few of fast moving Standard Sizes of O Ring and Seals we maintain stock and we expect orders for supply of new sizes according to your specifications.

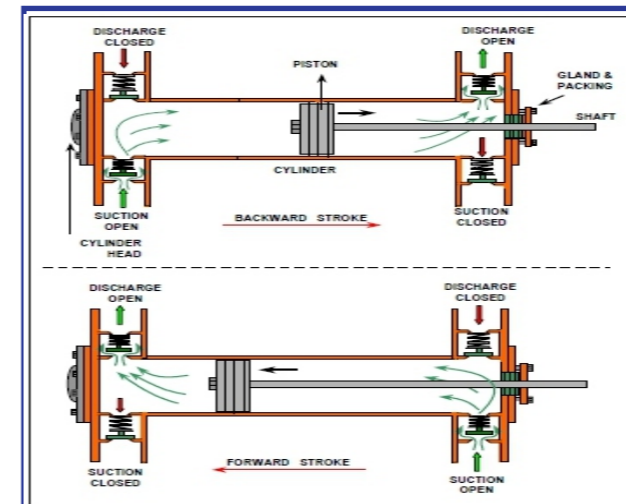
These are some of the profiles mentioned above, we also manufacture as per customer's designs and specifications.

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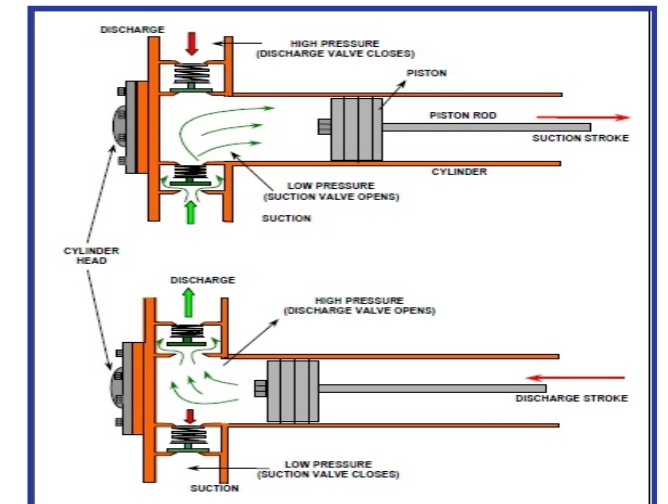
Fitco Seals are used in hydraulic & pneumatic application .Seals in hydraulic applications plays a important function in hydraulic cylinder which convert fluid power into mechanical powers , are also known as JACKS or RAMS, they are used at high pressure and produce large forces and precise movement.

In pneumatic application seals are used preventing leakage from gas/liquid as it is an expansive substance , its is dangerous to use at high pressure, as they limit to about 10 bar pressure, because gas / liquid is compressible substance , the motion of pneumatic cylinder is hard to control precisely .The basic theory for hydraulic & pneumatic cylinder is otherwise the same.

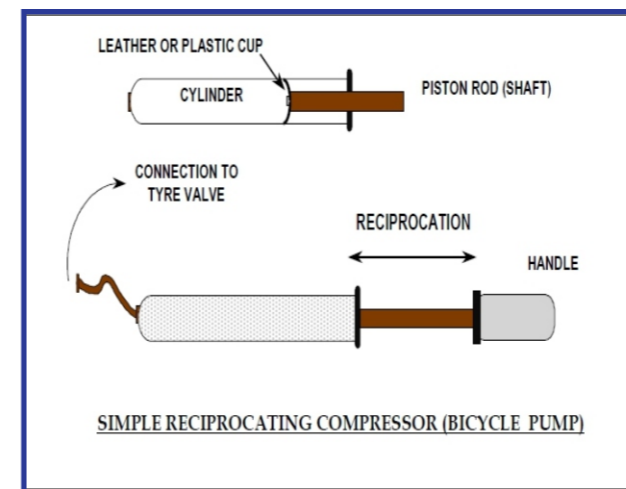
## Different Applications



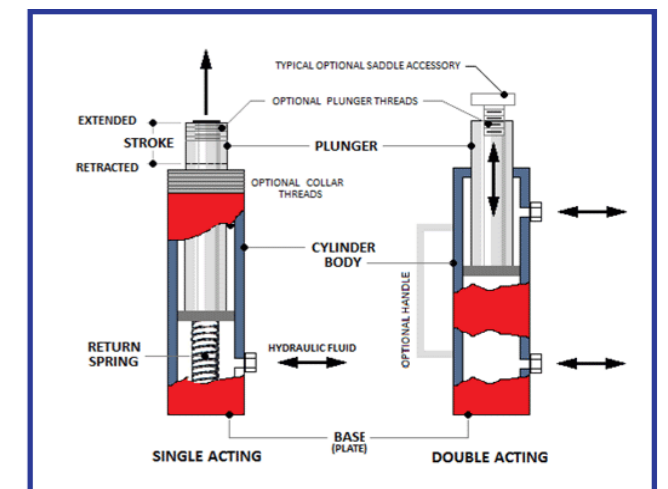
Double Acting Reciprocating Cylinder



Single Acting Reciprocating Cylinder



Reciprocating (Piston) Pump



Telescopic Jack Cylinder

Figures shown above are some of the sealing applications

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## Piston Seals

Profile	Type	Material	Hydraulic Application	Pneumatic Application	Working Pressure max.(bar)	Standard Speed max.(m/s)	Working Temp. C
	PS	PU NBR	●	●	350	1.0	-35/+100
	PS-OR	NBR	●	●	200	0.5	-35/+100
	PS 1	PU NBR	●	●	400	0.5	-35/+100
	PR	NBR BFT	●		600	4.0	-30/+100
	DA	NBR+PU polyacetal	●		400	0.5	-35/+100
	DO	MS + NBR		●	16	1.0	-30/+100
	DO-	MS + NBR		●	16	1.0	-30/+100

## Rod Seals

Profile	Type	Material	Hydraulic Application	Pneumatic Application	Working Pressure max.(bar)	Standard Speed max.(m/s)	Working Temp. C
	RS	PU	●		400	0.5	-35/+110
	RS 1	PU NBR	●	●	400	0.5	-35/+110
	FS	NBR + Fabric	●		350	0.5	-35/+80
	SP	NBR+ Fabric	●		600	4.0	-30/+100
	CH	NBR+ Fabric	●		400	0.5	-40/+100
	TS	NBR + Fabric	●		350	0.5	-40/+100

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WIPER SEAL:UW2 Material : Polyurethane		
Bore Dia	Grove Dia	Width
10	18	6/8
12	20	6/8
14	22	6/8
15	23	6.8
16	24	6/8
18	26	6/8
20	28	6/8
22	30	6/8
25	33	6/8
28	36	6/8
30	38	6/8
32	40	6/8
35	43	6/8
36	44	6/8
38	46	6/8
40	48	6/8
42	50	6/8
45	53	6/8
50	58	6/8
55	63	6/8
56	64	6/8
60	68	6/8
63	71	6/8
65	73	6/8
70	78	6/8
75	83	6/8
80	88	6/8
85	93	6/8
90	98	6/8
95	103	6/8
100	108	8/6
105	117	8.2/11
110	122	8.2/11
115	127	8.2/11
120	132	8.2/11
125	137	8.2/11
130	142	8.2/11
135	147	8.2/11
140	152	8.2/11
150	162	8.2/11
160	172	8.2/11
170	182	8.2/11
180	192	8.2/11
190	202	8.2/11


WIPER SEAL:MC-UW Material : MS -PU		
Bore Dia	Grove Dia	Width
20	32	6/9
22	34	6/9
25	37	6/9
28	40	6/9
30	42	6/9
32	44	7/10
35	47	7/10
36	48	7/10
38	50	7/10
40	52	7/10
45	57	7/10
50	62	7/10
55	69	8/11
56	70	8/11
60	74	8/11
63	77	8/11
65	79	8/11
70	84	8/11
75	89	8/11
80	94	8/11
85	99	8/11
90	104	8/11
95	109	8/11
100	114	8/11
105	121	9/12
110	126	9/12
115	131	9/12
120	136	9/12
125	141	9/12
130	146	9/12
140	160	10/14
150	170	10/14
160	185	10/14
165	185	10/14
170	190	10/14
180	200	10/14
180	205	12/17
200	216	9/12
200	225	12/17

These are some of the profiles mentioned above, we also manufacture as per customer's designs and specifications.

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## WIPER SEAL:WR1

Material : NBR



Bore Dia	Grove Dia	Width
8	14.6	3.8/5.3
10	16.6	3.8/5.3
12	18.6	3.8/5.3
14	20.6	3.8/5.3
16	22.6	3.8/5.3
18	24.6	3.8/5.3
20	28.6	5.3/7
22	30.6	5.3/7
25	33.6	5.3/7
28	36.6	5.3/7
30	38.6	5.3/7
32	40.6	5.3/7
35	43.6	5.3/7
36	44.6	5.3/7
40	48.6	5.3/7
42	50.6	5.3/7
45	55.6	5.3/7
45	53.6	5.3/7
50	58.6	5.3/7
50	60.6	5.3/7
55	65.6	5.3/7
56	66.6	5.3/7
60	70.6	5.3/7
63	73.6	5.3/7
65	75.6	5.3/7
70	80.6	5.3/7
85	97.2	7.1/12
90	102.2	7.1/12
100	112.2	7.1/12
105	117.2	7.1/12
110	122.2	7.1/12
115	127.2	7.1/12
120	132.2	7.1/12
125	137.2	7.1/12
130	142.2	7.1/12
135	147.2	7.2/12
140	152.2	7.7/12
140	155	10.2/16
150	162.2	7.2/12
150	165	10.2/16
155	167.2	7.2/12
160	172.2	7.2/12
160	175	10.2/16
170	182.2	7.2/12

## WIPER SEAL:UW1

Material : Polyurethane













Bore Dia	Grove Dia	Width
7	12	3.5/5
10	16	4/6
12	18	4/6
13	20	5/7
14	20	4/6
16	22	4/6
16	24	6/8
18	24	4/6
18	26	5/7
20	26	4/6
22	28	4/6
25	31	4/6
25	33	4/6
28	36	5/7
30	38	5/7
32	40	5/7
35	43	5/7
36	44	5/7
40	48	5/7
45	53	5/7
50	58	5/7
55	65	6/8
56	66	6/8
60	70	6/8
63	73	6/8
65	75	6/8
70	80	6/8
75	85	6/8
80	90	6/8
85	95	6/8
90	100	6/8
95	103.6	5.3/8
100	110	6/8
110	125	8.5/11
115	123.6	5.3/8
120	135	8.5/11
125	140	8.5/11
135	143.6	5.3/8
140	155	8.5/11
160	175	8.5/11
170	185	8.5/11
180	195	8.5/11
200	215	8.5/11


These are some of the profiles mentioned above, we also manufacture as per customer's designs and specifications.

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## Wiper/Scraper Seals

Profile	Type	Material	Hydraulic Application	Pneumatic Application	Working Pressure max.(bar)	Standard Speed max.(m/s)	Working Temp. C
	UW	PU NBR	●		--	2.0	-35/+100
	UW 1	PU NBR	●		--	2.0	-35/+100
	UW2	PU NBR	●		--	2.0	-35/+100
	WR	PU NBR	●	●	--	2.0	-35/+100
	WR 1	PU NBR	●	●	--	2.0	-35/+100
	WR 2	PU NBR	●		--	2.0	-35/+100
	MC-UW	PU NBR	●		--	2.0	-35/+100
	MC-UW1	PU NBR	●		--	2.0	-35/+100
	MC-WR	PU NBR	●	●	--	2.0	-35/+100
	MC-WR1	PU NBR	●	●	--	2.0	-35/+100

## Wear Rings

Profile	Type	Material	Hydraulic Application	Pneumatic Application	Working Pressure max.(bar)	Standard Speed max.(m/s)	Working Temp. C
	WR	BFT	●		--	5.0	-30/+200

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## Nitrile Butadine Rubber (NBR)

Hardness 70 Shore A & 90 Shore A ,Color: Black  
Working Temperature Range: -40° C to+ 100° C

Nitrile Rubber is general purpose elastomer for Hydraulic and Pneumatic systems and used as seal energizer for low pressure applications such as pneumatic, it has excellent resistance to mineral oil, greases, water, hydro-carban fuels, compression set resistance and good elastic properties, it is not suitable to automotive brakes fluid.

## Fluorinated Rubber FKM (Viton)

Hardness 70 Shore A ,Color: Geryish Black/ Brown  
Working Temperature Range: -30° C to+ 220° C

Viton Rubber is excellent resistance to mineral oils, hot water, steam, fuels, alcohol, hot oils, aliphatic and aromatic hydrocarbon, it has poor resistance to methanol, ketones & esters also exhibits excellent chemical resistance for use in harsh environments such as phosphate esters.

## Silicon Rubber (VQM)

Hardness 70 Shore A ,Color:Orange  
Working Temperature Range: -60° C to+ 200° C

Silicon Rubber has great cold flexibility as well as high thermal resistance. It has excellent de-electric properties and very good resistance to attack by oxygen, ozone and sunlight. It has poor strength & tear resistance to mineral oils.

## Ethylene Propylene Rubber (EPDM /EPM)

Hardness 70 Shore A ,Color: Black  
Working Temperature Range: -45° C to +150° C

EPDM has good resistance to ozone ageing and weathering, water and steam, Dilute acid, alkalies ketones, alcohol, fire retardent hydraulic fluids and hydraulic brakes fluids. This elastomer must not come in contact with mineral oils and greases.

## Poly-chloroprene Rubber (CR)

Hardness 70 Shore A ,Color: Black  
Working Temperature Range: -20° C to+ 100° C

CR chief characteristics is flame retardancy, excellent ageing properties in ozone and weather environments along with resistance to abrasion and flex fatigue. It is good resistance to mineral oils with high aniline point, greases refrigerants and water.

## Polyurethane (P.U)

Hardness 80 Shore A ,Color: Blue  
Working Temperature Range: -30° C to + 110° C

PU is premium polyurethane for superior sealing performance for use in general hydraulic applications (Not suitable for hot water), it has excellent mechanical properties such as high tensile strength, abrasion resistance, tear strength, and extrusion resistances.

## PTFE /VIRGIN


Color: White  
Working Temperature Range: -195° Cto+ 250° C


Used mainly for o-rings, backup rings and machined parts used in special applications requiring chemical inertness and limited strength. Ideal for use in cryogenic applications

## PTFE/ Bronze filled PTFE (BFT)


Color: Bronze  
Working Temperature Range: -195° C to +250° C


Used in dynamic sealing applications where the bronze filler gives improved wear resistance, hardness and compressive strength. The electrical properties and chemical resistance are reduced. Molybdenum disulphide improves the self lubrication

 <b>ROD SEAL : CH</b> Material : NBR Cotton Fabric		
Bore Dia	Grove Dia	Width
25	37	22.5
28	40	22.5
32	47	22.5
35	50	22.5
36	48	22.5
36	51	22.5
40	55	22.5
45	60	22.5
45	63	30
50	70	30
56	76	37
60	80	37
63	83	37
63	88	37
70	90	40
75	90	22.5
75	95	40
80	95	22.5
80	100	40
85	105	40
90	105	25
90	110	40
95	115	40
100	120	40
110	130	40
110	140	50
115	140	46
120	145	46
125	150	46
140	165	46
150	180	60
160	190	60
170	195	46
180	210	60
190	220	60
200	220	50

 <b>WEAR RING :WR</b> Material : BFT		
Fitco Ref no.	Width	Thickness
WR001	5	1.6
WR002	5.6	2.5
WR003	5.6	3.17
WR004	6	1.6
WR005	6	2
WR006	6	2.5
WR007	6	4
WR008	6	4.5
WR009	8	2
WR010	8	2.5
WR011	8	4
WR012	9.5	3.17
WR013	9.5	4
WR014	9.7	2.5
WR015	10	1.6
WR016	10	2
WR017	12.5	2.5
WR018	12.7	3.17
WR019	15	1.6
WR020	15	2
WR021	15	2.5
WR022	15	4
WR022	15.85	3.17
WR023	19	3.17
WR024	20	1.6
WR025	20	2
WR026	20	2.5
WR027	20	3.2
WR028	25	1.6
WR029	25	2
WR030	25	2.5
WR031	25.4	3.17
WR032	30	1.6
WR033	30	2
WR034	30	2.5
WR035	35	1.6

These are some of the profiles mentioned above, we also manufacture as per customer's designs and specifications.

 <b>ROD SEAL : SP</b> Material : NBR + BFT		
Bore Dia	Grove Dia	Width
12	19.3	3.2
14	21.3	3.2
15	22.3	3.2
16	23.3	3.2
18	25.3	3.2
18	28.7	4.2
20	27.3	3.2
20	30.7	4.2
22	32.7	4.2
25	35.7	4.2
28	35.3	3.2
28	38.7	4.2
30	40.7	4.2
32	42.7	4.2
35	45.7	4.2
36	46.7	4.2
38	48.7	4.2
38	53.1	6.3
40	50.7	4.2
40	55.1	6.3
42	52.7	4.2
42	57.1	6.3
45	55.7	4.2
45	60.1	6.3
50	60.7	4.2
50	65.1	6.3
55	65.7	4.2
55	70.1	6.3
56	66.7	4.2
56	71.1	6.3
60	70.7	4.2
60	75.1	6.3
63	78.1	6.3
65	75.7	4.2
65	80.1	6.3
68	83.1	6.3
70	85.1	6.3
75	90.1	6.3
78	93.1	6.3
80	95.1	6.3
85	100.1	6.3
88	103.1	6.3
90	105.1	6.3
95	110.1	6.3

 <b>ROD SEAL : SP</b> Material : NBR + BFT		
Bore Dia	Grove Dia	Width
98	113.1	6.3
100	115.1	6.3
105	120.1	6.3
108	123.1	6.3
110	125.1	6.3
110	130.5	8.1
115	130.1	6.3
115	135.5	8.1
118	133.1	6.3
120	135.1	6.3
120	140.5	8.1
125	140.1	6.3
125	145.5	8.1
128	143.1	6.3
130	145.1	6.3
130	150.5	8.1
135	150.1	6.3
135	155.5	8.1
136	151.1	6.3
138	153.1	6.3
140	155.1	6.3
140	160.5	8.1
145	160.1	6.3
150	165.1	6.3
150	170.5	8.1
155	170.1	6.3
160	175.1	6.3
160	180.5	8.1
170	185.1	6.3
170	190.5	8.1
175	190.1	6.3
180	195.1	6.3
180	200.5	8.1
190	205.5	6.3
190	210.5	8.1
200	215.1	6.3
200	220.5	8.1
210	230.5	8.1
215	235.5	8.1
220	240.5	8.1

These are some of the profiles mentioned above, we also manufacture as per customer's designs and specifications.

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## Automotive Industry Applications

The demands for the automotive industry are very typical and depend on the application (motor cooling or heating systems - fuel systems, etc). Fitco has some Special compounds.

## Pharmaceutical, Analytical & Biotechnical Applications

Sealing and technical components used in the Biotechnology industry are used in a wide range of applications. Laboratory and analytical equipment sealing products include gaskets and miniature components. Drug discovery and genetic research techniques often employ aggressive chemical environments that also demand ultra-high purity sealing components. Pharmaceutical applications range from drug discovery to development and full production of a wide range of chemical, biological and radiological products.

## Chemical & Petrochemical Industry Applications

Applications in the Chemical and Petrochemical Industry are sometimes critical. Next to the broad chemical resistance is also the low and high temperature resistance of great importance. Fitco has 20 years of experience in this field.

## Food & Beverage Industry Applications

One of the largest applications for specialty elastomers and plastics is in Food Processing and Beverage Equipment. These seals are required to resist the chemical and thermal environments present in the equipment, while not releasing any unwanted or unknown contaminants into the process. Many applications require the sealing materials to be 'capable of being cleaned and receiving effective bactericidal treatment while still maintaining physical properties'.

## Oil & Gas Industry Applications

Applications in the Oil & Gas Industry range from seals and components involved in exploration and drilling to high-pressure / high-temperature sealing components in down-hole wells. Extreme temperatures and pressures place great demands on elastomers for this industry. In addition, many chemicals either experienced in the reservoir, or used in the drilling, completion or intervention process can degrade many common elastomers.

## Semiconductor Industry Applications

Applications in the Semiconductor Industry range from seals and components for process equipment used in the fabrication of integrated circuits or semiconductors.

## Potable Water Industry Applications

Elastomers and plastics used in potable water treatment facilities as well as distribution and dispensing equipment may be subject to many demands. Chlorine has long been used in a disinfectant in water systems, but they can react and form toxic disinfectant byproducts (DBP). Ammonia is often added to reduce the DBP - which react to form chloramines which can be damaging to some elastomers.

## Heavy Earthmoving & Construction Machinery

Application for Earthmoving machinery range from seals for Cylinder, pumps, valves used in Excavators, Forklifts Trucks, WheelLoaders & Bulldozer.

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# Hydraulic Seal Kits



## Hydraulic Cylinder Repair Kits

Our Hydraulic Cylinder Seals & Seal Kits are suitable for use in most brands and models of Construction, Earth-Moving and Material Handling machinery.

We are in a position to provide replacement seal kits against OEM part nos ( for reference purpose only ) for popular machine models like -jcb, komatsu, hitachi, caterpillar, ...!!



### Types of Machines

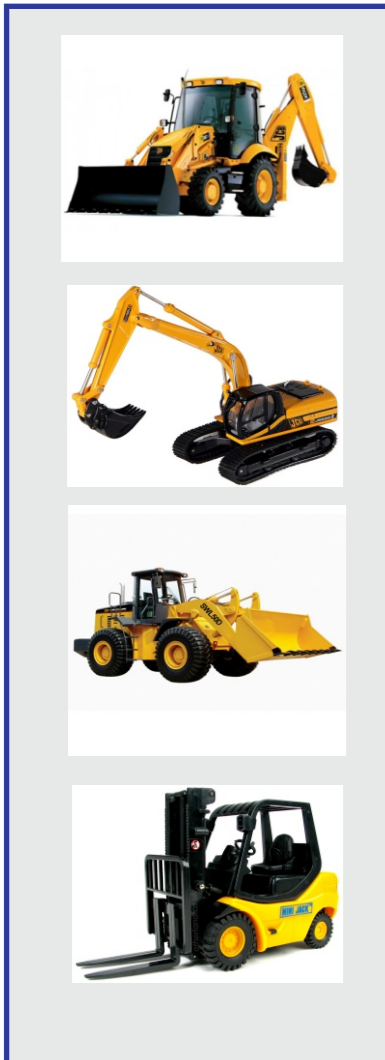
- Excavator ( wheel type)
- Excavator ( crawler type)
- Loader (wheel type)
- Forklift

### Models of Cylinder Repair Kits

- Boom Cylinder Kit
- Control Valve Kit
- Assist Valve Kit
- Gear Pump Kit
- Track Motor Kit
- Arm Cylinder Kit
- Bucket Cylinder Kit
- Swivel Joint Kit
- Swing Motor Kit
- Main Motor Kit

### Brands of Machine Type

- BEML
- Escorts
- Samsung
- Demag
- Mitsubishi
- Caterpillar
- L&T Komatsu
- Daewoo
- Hitachi
- Hyundai



These are some of the seal kits mentioned above, we also manufacture as per customer's designs and specifications.

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# Fitco Rod Seals



Bore Dia	Grove Dia	Width
65	80	9.2/10
65	80	10/11
65	80	12/13
70	80	10/11
70	83	10/11
70	85	11.4/12.5
70	90	12/13
75	83	11.4/12.5
75	85	12/13
75	87	8.7/9.6
75	88	10/11
75	90	12/13
75	95	12/13
75	95	13.5/15
78	88	13.5/15
80	90	9/10
80	90	12/13
80	93	10/11
80	95	11.4/12.5
80	100	12/13
85	100	12/13
85	105	12/13
90	100	12/13
90	105	9/10
90	105	11.4/12.5
90	110	12/13
91	101	10/11
95	103	11.4/12.5
95	110	10/11
95	115	12/13
99	109	13.5/15
100	108	7.3/8
100	115	10/11
100	120	12/13
100	120	14.5/16
100	125	14.5/16
105	120	10/11
105	125	12/13
110	120	10/11
110	125	12/13
110	130	14.5/16



Bore Dia	Grove Dia	Width
115	123	11.4/12.5
115	135	14.5/16
115	140	14.5/16
120	130	1/15
120	140	14.5/16
125	135	12/13
125	145	14.5/16
129	139	10/11
130	150	14.5/16
135	143	11.4/12.5
135	150	9.2/10
140	155	13/14
140	160	14.5/16
141	151	13.5/15
145	160	9.2/10
149	159	10/11
150	170	14.5/16
155	170	9.2/10
160	180	14.5/16
162	172	13.5/15
165	180	9.2/10
170	190	14.5/16
180	200	14.5/16
183	193	14/15
200	225	14.5/16
200	225	15.5/17
207	217	13.5/15

These are some of the profiles mentioned above, we also manufacture as per customer's designs and specifications.

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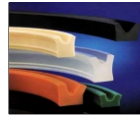




# Fitco Rod Seals



# Fitco Piston Seals


**ROD SEAL : RS**  
Material : Polyurethane



Bore Dia	Grove Dia	Width
6	14	5.7/6.3
8	16	5.7/6.3
10	18	5.7/6.3
10	20	5.4/6
12	19	5/5.7
12	20	5.7/6.3
12	22	7.3/8
14	21	5/5.7
14	24	7.3/8
16	23.5	5/5.5
16	24	5.7/6.3
16	25	5.7/6.3
16	26	7.3/8
18	23	5/5.5
18	25	5/5.5
18	26	5.7/6.3
18	28	7.3/8
20	26	5.7/6.3
20	28	5.7/6.3
20	30	5.7/6.3
20	30	7.3/8
22	29	5.7/6.3
22	30	5.7/6.3
22	30	7.3/8
22	32	7.3/8
25	33	5.7/6.3
25	33	7.3/8
25	35	5.7/6.3
28	36	5.7/6.3
28	36	7.3/8
28	38	7.3/8
30	40	7.3/8
32	40	5.7/6.3
32	42	7.3/8
33	43	7.3/8
35	45	7.3/8
35	45	10/11
35	46	6.8/7.5
36	44	5.7/6.3
36	46	7.3/8
36	46	10/11



**ROD SEAL : RS**  
Material : Polyurethane



Bore Dia	Grove Dia	Width
36	50	11.4/12.5
38	48	7.3/8
40	50	7.3/8
40	50	8.2/9
40	50	10/11
40	55	11.4/12.5
45	53	5.6/6.3
45	53	8.2/9
45	53	11.8/13
45	55	5.7/6.3
45	55	6.3/7
45	55	7.3/8
45	55	10/11
45	60	11.4/12.5
50	60	5/5.7
50	60	7.3/8
50	60	8.2/9
50	60	10/11
50	60	12/13
50	63	10/11
50	65	11.4/12.5
54	62	10/11
55	65	7.3/8
55	65	10/11
55	68	10/11
55	70	10/11
55	75	12/13
56	66	7.3/8
56	66	10/11
56	71	11.4/12.5
60	70	7.3/8
60	70	10/11
60	70	12/13
60	70	13.5/15
60	73	10/11
60	75	9.2/10
60	75	11.4/12.5
63	73	12/13
63	75	9.2/10
63	75	12/13
65	78	10/11

These are some of the profiles mentioned above, we also manufacture as per customer's designs and specifications.

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**PISTON SEAL :PS1**  
Material : Polyurethane



Bore Dia	Grove Dia	Width
16	8	6.3
18	8	8
20	12	6.3
20	12	8.7
22	14	6.3
22	14	10
25	14	10
25	17	6.3
26	18	6.3
28	20	6.3
28	22	4
32	24	6.3
35	20	7.5
36	26	8
40	25	11
40	28	11
40	30	8
40	32	6.3
40	32	8
45	30	11
45	35	8
50	35	8
50	35	10
50	36	11
50	38	8
50	40	8
50.8	28.57	12.7
60	40	10
60	45	11
60	50	8
63	43	13
63	45	11
63	48	11
63	48	12.5
63	50	8
63	53	8
63	53	10
70	50	13
70	55	11
75	55	12.5



**PISTON SEAL :PS1**  
Material : Polyurethane



Bore Dia	Grove Dia	Width
75	63	9
80	60	10
80	60	13
80	65	9
80	65	11
80	65	13
80	68	9.5
80	70	8
80	72	12
85	65	10
90	70	13
90	75	11
90	78	9.5
90	80	14
100	75	20
100	80	13
100	80	14
100	85	10
100	88	9.5
100	90	10.5
100	90	12.5
105	95	13
110	90	13
120	100	13
125	100	14
125	100	16
125	105	16
125	110	10
130	110	13
140	115	16
140	120	16
140	125	10
150	125	13
150	125	16
150	130	16
160	140	16
170	150	16
180	160	16
200	170	20
200	180	16

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# Fitco Piston Seals



# Fitco Piston Seals




**PISTON SEAL :DA**  
Material :  
NBR + PU + Polyacetal

Bore Dia	Grove Dia	Width
25	15	12
32	22	16.4
40	30	16.4
40	24	18.4
50	34	18.4
50	34	20.5
55	39	18.4
60	44	18.4
63	47	18.4
65	49	20.5
70	50	22.4
75	55	22.4
80	60	22.4
80	62	22.5
85	65	22.4
90	70	22.4
90	72	22.5
95	75	22.4
100	75	22.4
100	82	22.5
100	86	22.5
105	80	22.4
110	85	22.4
115	90	22.4
120	95	22.4
125	100	25.4
125	103	26.5
130	105	25.4
130	105	25.4/44.5
135	110	25.4
135	110	25.4/44.5
140	115	25.4
140	115	25.4/44.5
145	120	25.4
145	120	25.4/44.5
150	125	25.4
150	125	25.4/44.5
160	130	25.4
160	135	25.4
175	150	25.4
180	155	25.4
200	175	25.4
225	200	25.4
250	225	25.4



**PISTON SEAL :PR**  
Material : NBR+BFT

Bore Dia	Grove Dia	Width
10	5.1	2.2
12	7.1	2.2
12.7	7.8	2.2
14	9.1	2.2
15	7.5	3.2
16	8.5	3.2
18	10.5	3.2
19.05	11.55	3.2
20	12.5	3.2
22	14.5	3.2
25	17.5	3.2
25	14	4.2
25.4	17.9	3.2
28	20.5	3.2
28	17	4.2
30	22.5	3.2
31.7	24.2	3.2
32	24.5	3.2
32	21	4.2
35	27.5	3.2
35	24	4.2
36	28.5	3.2
36	25	4.2
38	30.5	3.2
40	29	4.2
42	31	4.2
44.45	36.95	3.2
45	34	4.2
48	37	4.2
50	39	4.2
50.8	39.8	4.2
55	44	4.2
56	45	4.2
57.1	46.1	4.2
60	49	4.2
63	52	4.2
63	47.5	6.3
63.5	52.5	4.2
65	54	4.2
69.85	58.85	4.2
70	59	4.2

These are some of the profiles mentioned above, we also manufacture as per customer's designs and specifications.

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**PISTON SEAL :PR**  
Material : NBR+BFT

Bore Dia	Grove Dia	Width
70	54.5	6.6
75	64	4.2
75	59.5	6.3
76.2	65.2	4.2
80	69	4.2
80	64.5	6.3
85	69.5	6.3
88.9	73.4	6.3
90	79	4.2
90	74.5	6.3
90	69	8.1
95	84	4.2
95	79.5	6.3
100	89	4.2
100	84.5	6.3
100	79	8.1
101.6	86.1	6.3
105	89.5	6.3
110	94.5	6.3
110	89	8.1
115	99.5	6.3
115	94	8.1
120	104.5	6.3
120	99	8.1
125	109.5	6.3
125	104	8.1
127	111.5	6.3
130	114.5	6.3
130	109	8.1
135	119.5	6.3
135	114	8.1
140	124.5	6.3
140	119	8.1
145	129.5	6.3
145	124	8.1
150	134.5	6.3
150	129	8.1
152.4	131.4	8.1
155	139.5	6.3
155	134	8.1
160	144.5	6.3

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