



RAC series, single-acting aluminum

Utilizing the latest in Alloy technology, high-strength coatings, seal design and bearing materials, the new Aluminum Cylinder line from ZUPPER can change the way you think about your cylinder applications. Our cylinders provide the strength of aluminum alloy with the lightweight, transportability and easy positioning of aluminum.

- Steel baseplate and saddle for protection against load-induced damage
- Dust ring stop the dust into cylinder during extension
- Integral stop ring prevents plunger over-travel and is capable of with standing the full cylinder capacity
- Multi-wearing ring prevent metal to metal contact, increasing cylinder life and resistance to side-loads of up to 10%
- Hard coat finish on all surfaces resists damage and extends cylinder life
- High-strength return spring for rapid cylinder retraction
- Combined seal reduced the friction, no creeping and extends cylinder life
- Handles included on all models



DESCRIPTION OF PARTS

1. Saddle

2. Dust Ring

3. Integral stop ring

4. Multi-wear ring

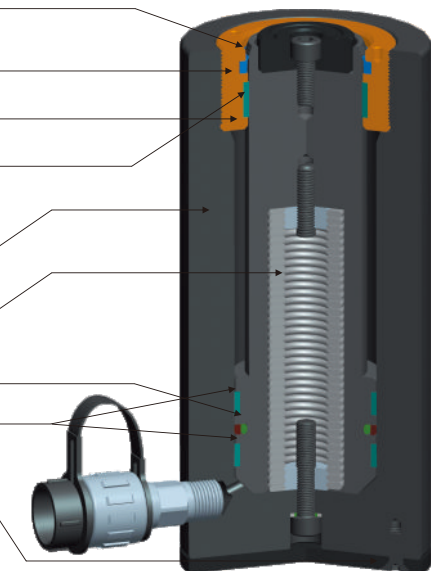
5. Hard coat finish on all surface

6. High-strength return spring

7. Combined seal

8. Multi-wear ring

9. Steel baseplate



Note: All the Spec. rated working pressure is 70Mpa

Item.no	Output (t)	Stroke (mm)	Effective area (cm ²)	Oil capacity (l)	Height of Product (mm)	Outside dia (Φ mm)	Bore dia (Φ mm)	Principal axis Dia (Φ mm)	Cap dia (mm)	Saddle Protrusion From plgr (mm)	Weight (kg)
RAC-2050	20	50	31.2	0.156	174	103	63	50	40	3	4.3
RAC-20100	20	100	31.2	0.312	224	103	63	50	40	3	6
RAC-20150	20	150	31.2	0.468	274	103	63	50	40	3	6.5
RAC-3050	30	50	44.2	0.221	181	108	75	60	50	3	5
RAC-30100	30	100	44.2	0.442	231	108	75	60	50	3	6.3
RAC-30150	30	150	44.2	0.663	281	108	75	60	50	3	18.2
RAC-5050	50	50	70.9	0.354	186	138	95	80	60	3	7.3
RAC-50100	50	100	70.9	0.709	236	138	95	80	60	3	10.3
RAC-50150	50	150	70.9	1.063	286	138	95	80	60	3	10.1
RAC-100100	100	100	143.1	1.431	271	188	135	110	90	3	22
RAC-100150	100	150	143.1	2.147	321	188	135	110	90	3	
RAC-100200	100	200	143.1	2.863	371	188	135	110	90	3	

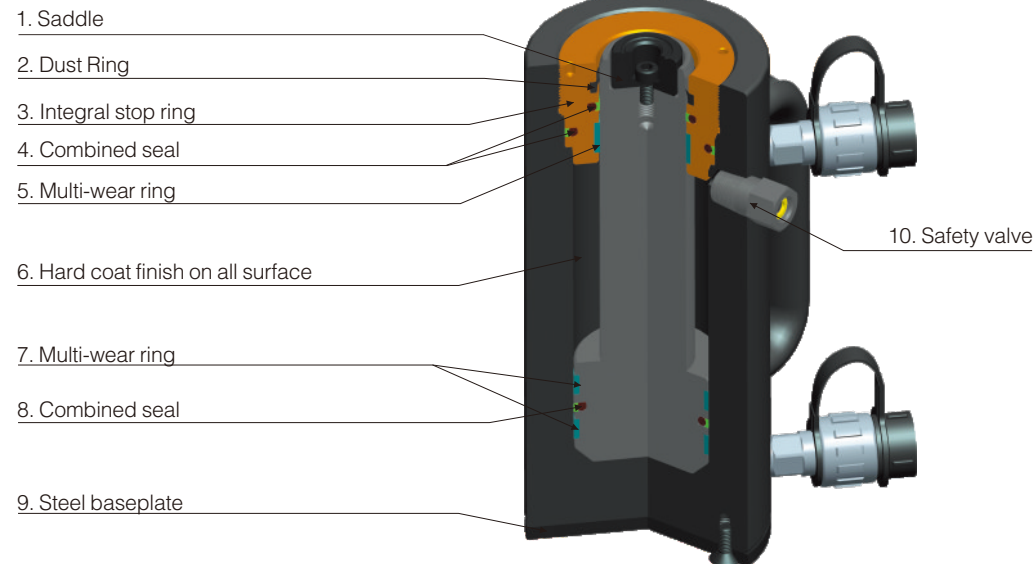
RAR-series, double acting aluminum cylinders

Utilizing the latest in Alloy technology, high-strength coatings, seal design and bearing materials, the new Aluminum Cylinder line from ZUPPER can change the way you think about your cylinder applications. Our cylinders provide the strength of aluminum alloy with the lightweight, transportability and easy positioning of aluminum.

- Steel baseplate and saddle for protection against load-induced damage
- Dust ring stop the dust into cylinder during extension
- Integral stop ring prevents plunger over-travel and is capable of with standing the full cylinder capacity
- Multi-wearing ring prevent metal to metal contact, increasing cylinder life and resistance to side-loads of up to 10%
- Hard coat finish on all surfaces resists damage and extends cylinder life
- High-strength return spring for rapid cylinder retraction
- Combined seal reduced the friction, no creeping and extends cylinder life
- Handles included on all models



DESCRIPTION OF PARTS



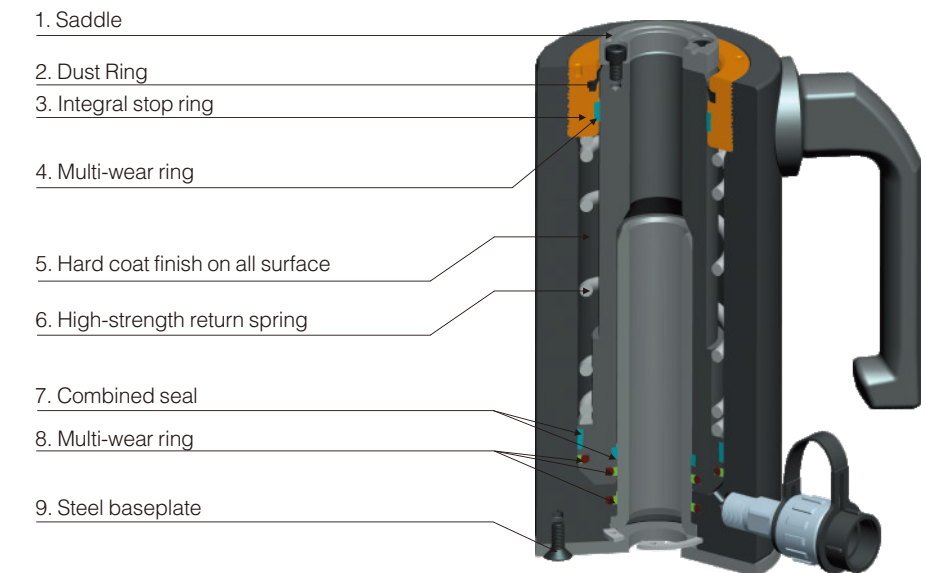
RACH-series, hollow plunger aluminum cylinders

Utilizing the latest in Alloy technology, high-strength coatings, seal design and bearing materials, the new Aluminum Cylinder line from ZUPPER can change the way you think about your cylinder applications. Our cylinders provide the strength of aluminum alloy with the lightweight, transportability and easy positioning of aluminum.

- Steel baseplate and saddle for protection against load-induced damage
- Dust ring stop the dust into cylinder during extension
- Integral stop ring prevents plunger over-travel and is capable of with standing the full cylinder capacity
- Multi-wearing ring prevent metal to metal contact, increasing cylinder life and resistance to side-loads of up to 10%
- Hard coat finish on all surfaces resists damage and extends cylinder life
- High-strength return spring for rapid cylinder retraction
- Combined seal reduced the friction, no creeping and extends cylinder life
- Handles included on all models



DESCRIPTION OF PARTS



Note: All the Spec.rated working pressure is 70Mpa

Item.no	Output(t)		Stroke (mm)	Effective area(cm ²)		Oil capacity (l)	Height of Product (mm)	Outside dia (mm)	Bore dia (mm)	Principal axis Dia (mm)	Cap dia (mm)	Oil supply hole Thread (RC)	Saddle Protrusion From plgr (mm)
	Push	Pull		Push	Pull								
RAR-2050	20	13	50	31.2	18.6	0.156	189	103	63	40	30	3/8	3
RAR-20100	20	13	100	31.2	18.6	0.312	239	103	63	40	30	3/8	3
RAR-20150	20	13	150	31.2	18.6	0.468	289	103	63	40	30	3/8	3
RAR-3050	30	18	50	44.2	24.5	0.221	201	118	75	50	40	3/8	3
RAR-30100	30	18	100	44.2	24.5	0.442	251	118	75	50	40	3/8	3
RAR-30150	30	18	150	44.2	24.5	0.663	301	118	75	50	40	3/8	3
RAR-5050	50	19	50	70.9	26.7	0.354	201	138	95	75	60	3/8	3
RAR-50100	50	19	100	70.9	26.7	0.709	251	138	95	75	60	3/8	3
RAR-50150	50	19	150	70.9	26.7	1.063	301	138	95	75	60	3/8	3
RAR-100100	100	55	100	143.1	79.5	1.431	301	197	135	90	75	3/8	3
RAR-100150	100	55	150	143.1	79.5	2.147	351	197	135	90	75	3/8	3
RAR-100200	100	55	200	143.1	79.5	2.863	401	197	135	90	75	3/8	3

Note: All the Spec.rated working pressure is 70Mpa

Item.no	Output (t)	Stroke (mm)	Effective area (cm ²)	Oil capacity (l)	Height of Product (mm)	Outside dia (mm)	Bore dia (mm)	Principal axis Dia (mm)	Outer Dia of piston(mm)	Cap dia (mm)	Oil supply hole Thread (RC)	Saddle Protrusion From plgr (mm)
RACH-20100	20	100	32.8	0.328	251	113	75	55	27	55	3/8	10
RACH-20150	20	150	32.8	0.492	313	113	75	55	27	55	3/8	10
RACH-3050	30	50	51.1	0.256	208	138	95	70	34	70	3/8	12
RACH-30100	30	100	51.1	0.512	267	138	95	70	34	70	3/8	12
RACH-30150	30	150	51.1	0.767	333	138	95	70	34	70	3/8	12
RACH-6050	60	50	84.7	0.424	251	187	130	100	54	100	3/8	12
RACH-60100	60	100	84.7	0.848	315	187	130	100	54	100	3/8	12
RACH-60150	60	150	84.7	1.272	380	187	130	100	54	100	3/8	12
RACH-100100	100	100	164.6	1.652	325	267	185	145	79	145	3/8	14
RACH-100150	100	150	164.6	2.478	391	267	185	145	79	145	3/8	14
RACH-100200	100	200	164.6	3.304	459	267	185	145	79	145	3/8	14

RMC-super thin single acting hydraulic steel cylinder

- Low height is suit for working in narrowness; Short stroke can block up times and times
- The surface of plunger is finished with chrome plate to protect the using of longevity of the product.
- Plunger has the function of retracting automatically.



DESCRIPTION OF PARTS

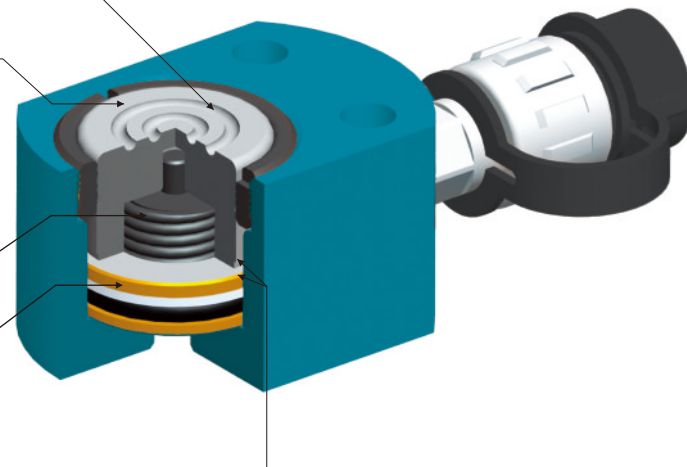
1. Principal axis
[avoid axis break when it is overloading]

2. Stopping ring
[to protect the cylinder when the stroke get to top, absorb heaviness on the other side.]

3. Spring [provide the capability of quick flexing]

4. Brass ring [use high quality of brass to joint, to protect the status of overloading and absorb heaviness on the other side.]

5. Cylinder wall and principal axis
[they can avoid eroding and less friction by chrome plate]



RMC L-multistage hydraulic steel cylinder

- The stroke of RMC-L series are higher than RMC series

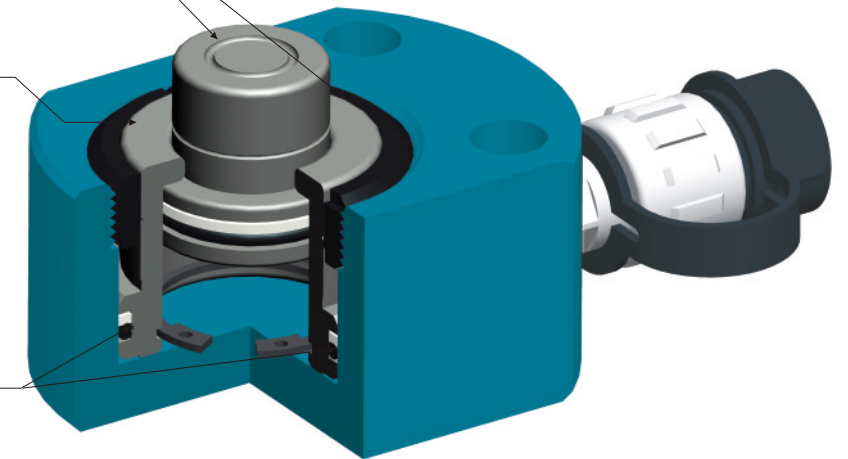


DESCRIPTION OF PARTS

1. Principal axis
[avoid axis break when it is overloading]

2. Stopping ring
[to protect the cylinder when the stroke get to top, absorb heaviness on the other side.]

3. O-ring great effect for seaking and hold longevity



Item.no	Output (t)	Stroke (mm)	Effective area (cm ²)	Oil capacity (l)	Height of Product (mm)	Extended Height (mm)	Outside dia (Ø mm)	Bore dia (mm)	Principal axis Dia (mm)	Oil supply hole Thread (ZG)	Saddle Protrusion From plgr (mm)	Weight (kg)
RMC-051	5	11	4.9	0.0078	43	54	51x40	30	25	NPT1/4"	1	0.65
RMC-101	10	11	11.3	0.016	47	58	81x56	43	38	3/8"-19	2	1.5
RMC-201	20	11	22	0.031	52	63	100x77	60	53	3/8"-19	2	2.7
RMC-301	30	12	31.1	0.05	63	75	115x95	75	63	3/8"-19	2	4.5
RMC-501	50	16	56.7	0.113	69	85	138x115	95	85	3/8"-19	2	7.4
RMC-1001	100	16	95	0.211	86	102	185x160	130	110	3/8"-19	2	15.5
RMC-1501	150	18	162.8	0.338	93	111	234x200	164	144	3/8"-19	2	25.4
RMC-2001	200	18	224.2	0.505	100	118	274x239	189	169	3/8"-19	2	38.1

Item.no	Output (t)	Stroke (mm)	Effective area (cm ²)	Oil capacity (l)	Height of Product (mm)	Extended Height (mm)	Outside dia (Ø mm)	Bore dia (mm)	Principal axis Dia (mm)	Weight (kg)
RMC-101L	10	25	11.3	0.022	47	74	81x56	43	38	1.5
RMC-201L	20	26	19.6	0.041	52	80	100x77	60	53	2.7
RMC-301L	30	53	33.1	0.058	63	118	115x95	75	63	4.2
RMC-501L	50	64	56.7	0.113	69	135	138x115	95	85	7.2
RMC-1001L	100	75	95	0.225	86	163	185x160	130	110	15

RSC-single hydraulic steel cylinder

- The surface of principle axis is finished with chrome plate to protect the using of longevity of the product.
- Principle axis has the function of retracting automatically.
- Surface coating resists corrosion, extending cylinder life.
- Hardy underlay to avoid axis break when it is overloading.



DESCRIPTION OF PARTS

1. Hardy underlay
(Avoid plunger break when it is overloading)

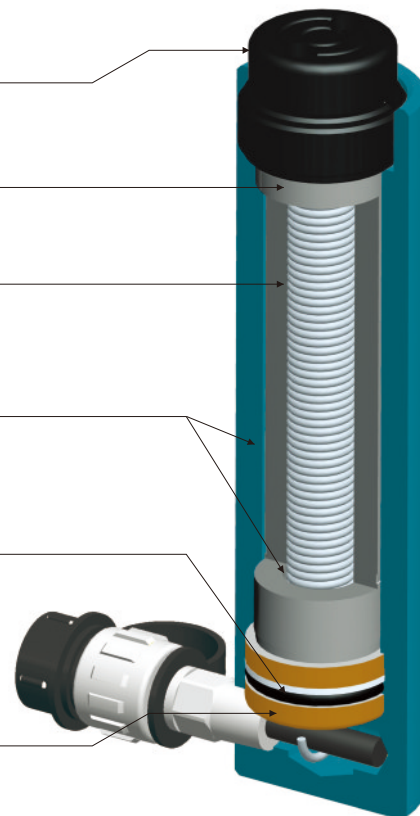
2. Stopping ring
(to protect the cylinder when the stroke get to top, absorb heaviness in the other side.)

3. Spring
(provide the capability of quick flexing)

4. Cylinder wall and principal axis
(they can avoid eroding and less friction by chrome plate)

5. O-ring
great effect for sealing and hold longevity.

6. Brass ring
(use high quality of brass to joint, to protect the status of overloading and absorb heaviness in the other side.)



RSC-single Hydraulic Steel Cylinder

Item.no	Output (l)	Stroke (mm)	Effective area (cm ²)	Oil capacity (l)	Height of Product (mm)	Extended Height (mm)	Outside dia (mm)	Bore dia (mm)	Principal axis Dia (mm)	Oil supply hole Thread NPT	Saddle Protrusion from Plgr (mm)
RSC-0550	5	50	7.1	0.035	133	183	40	30	25	1/4	13
RSC-05100	5	100	7.1	0.071	183	283	40	30	25	1/4	13
RSC-05150	5	150	7.1	0.106	233	383	40	30	25	1/4	13
RSC-1050	10	50	15.2	0.076	141	191	62	44	38	3/8	21
RSC-10100	10	100	15.2	0.152	191	291	62	44	38	3/8	21
RSC-10150	10	150	15.2	0.228	241	391	62	44	38	3/8	21
RSC-2050	20	50	33.2	0.166	157	207	88	65	55	3/8	22
RSC-20100	20	100	33.2	0.332	207	307	88	65	55	3/8	22
RSC-20150	20	150	33.2	0.497	254	404	88	65	55	3/8	22
RSC-3050	30	50	44.2	0.221	157	207	107	75	65	3/8	22
RSC-30100	30	100	44.2	0.442	209	309	107	75	65	3/8	22
RSC-30150	30	150	44.2	0.662	256	406	107	75	65	3/8	22
RSC-30200	30	200	44.2	0.883	308	508	107	75	65	3/8	22
RSC-5050	50	50	70.8	0.354	162	212	128	95	85	3/8	26
RSC-50100	50	100	70.8	0.708	212	312	128	95	85	3/8	26
RSC-50150	50	150	70.8	1.063	262	412	128	95	85	3/8	26
RSC-50200	50	200	70.8	1.417	312	512	128	95	85	3/8	26
RSC-10050	100	50	132.7	0.663	162	212	175	130	110	3/8	27
RSC-100100	100	100	132.7	1.327	212	312	175	130	110	3/8	27
RSC-100150	100	150	132.7	1.990	262	412	175	130	110	3/8	27
RSC-100200	100	200	132.7	2.653	312	512	175	130	110	3/8	27
RSC-15050	150	50	201.0	1.005	166	216	207	160	140	3/8	26
RSC-150100	150	100	201.0	2.010	216	316	207	160	140	3/8	26
RSC-150150	150	150	201.0	3.014	266	416	207	160	140	3/8	26
RSC-150200	150	200	201.0	4.019	316	516	207	160	140	3/8	26
RSC-20050	200	50	280.4	1.402	171	221	237	189	169	3/8	31
RSC-200100	200	100	280.4	2.804	221	321	237	189	169	3/8	31
RSC-200150	200	150	280.4	4.206	271	421	237	189	169	3/8	31
RSC-200200	200	200	280.4	5.608	321	521	237	189	169	3/8	31
RSC-300100	300	100	415.3	4.153	233	333	287	230	210	3/8	31

RC-single acting hydraulic steel cylinder

- It has the characteristic of low collapsed height, if the requirement of stroke needs to be higher than RMC series, RC series is suit for this case.
- The surface of principle axis is finished with chrome plate to protect the using of longevity of the product.
- Plunger has the function of retracting automatically
- WRC rotary head, can work in bevel.



DESCRIPTION OF PARTS

1. Stopping ring

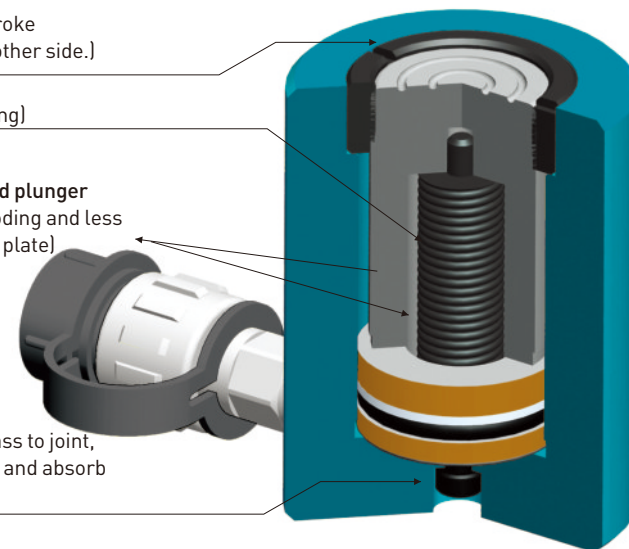
(to protect the cylinder when the stroke get to top, absorb heaviness in the other side.)

2. Spring

(provide the capability of quick flexing)

3. Cylinder wall and plunger
(they can avoid eroding and less friction by chrome plate)

4. Brass ring (use high quality of brass to joint, to protect the status of overloading and absorb heaviness in the other side.)



RCH series, Single Acting Hollow Plunger Steel Cylinder

- Steel base plate and saddle for protection the hollow piston and cylinder damage and increasing abrasion performance
- Dust ring stop the dust into cylinder during extension
- Floating type plunger prevents the block caused by slight unbalance loading of piston
- Step-limited piston prevents over-travel and is capable of stopping the spring compressed completely
- Wear ring prevent metal to metal contact, increasing cylinder life and resistance to be scratched
- High-efficient seal extends cylinder life
- Handles included on all models



DESCRIPTION OF PARTS

1. Saddle

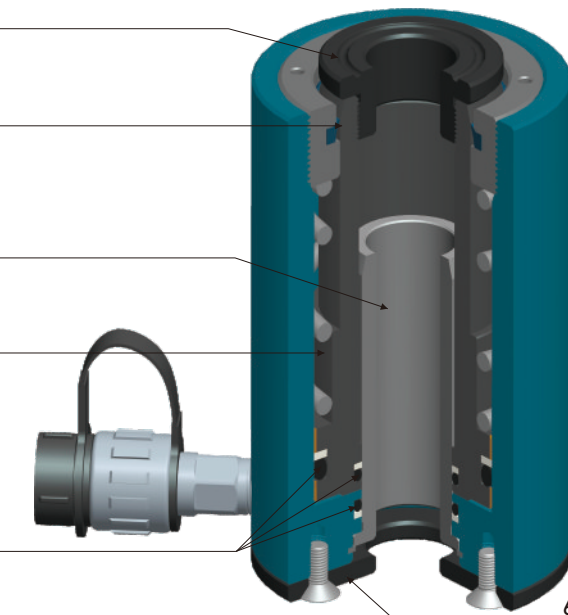
2. Dust Ring

3. Floating piston

4. Step-limited piston

5. Wear ring

6. Steel baseplate



Note: All the Spec.rated working pressure is 70Mpa

Item.no	Output (t)	Stroke (mm)	Effective area (cm ²)	Oil capacity (l)	Height of Product (mm)	Extended Height (mm)	Outside dia (mm)	Bore dia (mm)	Principal axis Dia (mm)	Oil supply hole Thread NPT	Saddle Protrusion from Plgr (mm)
RC-0550	5	50	7.1	0.036	121	171	40	30	25	1/4	1
RC-1050	10	50	15.2	0.075	105	155	73	44	38	3/8	2
RC-2050	20	50	33.2	165.9	103	153	93	65	55	3/8	2
RC-3050	30	50	44.2	0.221	103	153	107	75	65	3/8	2
RC-5050	50	50	70.8	0.355	108	159	128	95	85	3/8	2
RC-10050	100	50	132.7	0.664	135	185	175	130	110	3/8	2
RC-15050	150	50	201.0	1.005	137	187	207	160	140	3/8	2
RC-20050	200	50	280.4	1.402	137	187	238	189	169	3/8	2
RC-30050	300	50	415.3	2.077	152	202	287	230	210	3/8	3
WRC-10050	100	50	132.7	0.664	148.5	198.5	175	130	110	3/8	13.5

Item.no	Output (t)	Stroke (mm)	Effective area (cm ²)	Oil capacity (l)	Height of Product (mm)	Extended Height (mm)	Outside dia (mm)	Bore dia (mm)	Principal axis Dia (mm)	Outer Dia of piston (mm)	Oil supply hole Thread NPT	Saddle Protrusion from Plgr (mm)
RCH-2050	20	50	32.8	0.164	166	216	95	75	55	27	3/8	7
RCH-20100	20	100	32.8	0.328	228	328	95	75	55	27	3/8	7
RCH-20150	20	150	32.8	0.492	290	440	95	75	55	27	3/8	7
RCH-3050	30	50	51.2	0.256	172	222	118	95	70	34	3/8	9
RCH-30100	30	100	51.2	0.512	238	338	118	95	70	34	3/8	9
RCH-30150	30	150	51.2	0.768	208	458	118	95	70	34	3/8	9
RCH-6050	60	50	98.9	0.495	210	260	165	135	100	54	3/8	12
RCH-60100	60	100	98.9	0.989	282	382	165	135	100	54	3/8	12
RCH-60150	60	150	98.9	1.484	357	507	165	135	100	54	3/8	12
RCH-10075	100	75	167.8	1.258	266	341	224	180	140	79	3/8	15
RCH-100150	100	150	167.8	2.517	377	527	224	180	140	79	3/8	15
RCH-100200	100	200	167.8	3.356	451	751	224	180	140	79	3/8	15