

PRE-LUBE RESISTANCE WELD CYLINDERS

Advanced
Cylinder
Products, LLC
THE LEADER IN PNEUMATIC CYLINDERS

Advanced Cylinder Products Pre-lubricated (Lube-for-Life) pneumatic cylinders are a perfect fit in situations where adding in-line lubricators is either not allowed or impractical. Special lubrication reservoirs are designed into the cylinders which keep the seals and moving parts lubricated without the need of adding oil to the supply lines. Special long lasting seals and wear bands are employed to provide for a long leak free cylinder life. Finally, heavy duty rod wipers are used, where possible, to help keep out water and contaminants in unclean environments. These special features not only allow the cylinder to function without in-line lubrication, but also help make our pre-lube cylinders rugged, long lasting, and maintenance free.

Standard Features

- Bronze filled Teflon® wear strips are long lasting even under dry conditions, helps keep contaminants from cylinder wall.
- Long lasting, wear resistant urethane o-rings.
- Heavy-duty urethane rod wipers are standard for most pre-lube cylinders to keep contaminants out.
- Lubrication reservoirs located throughout keep lubrication on moving parts.
- Long lasting rotate or anti-rotate retaining bushings
- Most popular mounting styles are available, special mounts can be made if requested.
- 1.75" to 6.00" bore standard, others possible upon request.
- Single, dual, triple, and quad piston cylinders



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Benefits

- ACP Pre-lube cylinders do not require in-line lubrication. Save time and expense of keeping lubricators filled and operating properly.
- Wear bands are used on pistons and dividers for superior stability, perfect for offset loads and projection welding applications.
- Due to the rugged construction of pre-lubed cylinders they will far outlast traditional resistance weld type cylinders.
- Heavy duty rod wipers help remove water, dust, weld flash and other contaminants from piston rod.

Design Options

- L8 and L9 type extra long bearings provide even greater stability for use in projection weld and offset conditions.
- Many mounting styles and rod ends are available for interchangeability, special mounts, rod ends, and rod stick-outs are no problem for ACP.
- Alternative seal options are available for high temperature, or low breakaway applications.
- Optional ports and port locations are available, BSPT can be supplied.
- Proximity switch and LVDT position sensing options available.
- Cylinders with adjustable forward or return stroke, and adjustable stroke cylinders can be ordered.
- Retract stroke cylinders available with pre-lube option



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Cylinder Sizing Chart



Single Piston Cylinders											
Group	Model	Bore (in.)	Piston Area (Sq. In.)		Cylinder Extend Force (Lbs.) @95% Eff. Line Pressure (P.S.I.)						
			Extend	Return	40	50	60	70	80	90	100
			Light Duty	240	1.75	2.40	1.96	91	114	137	160
314	2.00	3.14		2.70	119	149	179	209	239	268	298
398	2.25	3.98		3.53	151	189	227	265	302	340	378
Dual Piston Cylinders											
Group	Model	Bore (in.)	Piston Area (Sq. In.)		Cylinder Extend Force (Lbs.) @95% Eff. Line Pressure (P.S.I.)						
			Extend	Return	40	50	60	70	80	90	100
			Light Duty	436	1.75	4.36	1.96	166	207	249	290
584	2.00	5.84		2.70	222	277	333	388	444	499	555
750	2.25	7.50		3.53	285	356	428	499	570	641	713
937	2.50	9.37		4.47	356	445	534	623	712	801	890
1143	2.75	11.43		5.50	434	543	652	760	869	977	1086
1360	3.00	13.60		6.63	517	646	775	904	1034	1163	1292
Medium Duty	1575	3.25	15.81	7.51	601	751	901	1051	1202	1352	1502
	1840	3.50	18.46	8.84	701	877	1052	1228	1403	1578	1754
	2125	3.75	21.30	10.26	809	1012	1214	1416	1619	1821	2024
	2430	4.00	24.35	11.78	925	1157	1387	1619	1851	2082	2313
Heavy Duty	3030	4.50	30.58	14.68	1162	1453	1743	2034	2891	2615	2905
	3770	5.00	38.04	18.41	1446	1807	2168	2530	2891	3252	3614
	4600	5.50	46.29	22.53	1759	2199	2639	3078	3518	3958	4398
	5500	6.00	55.32	27.05	2102	2628	3153	3679	4204	4730	5255
Triple Piston Cylinders											
Group	Model	Bore (in.)	Piston Area (Sq. In.)		Cylinder Extend Force (Lbs.) @95% Eff. Line Pressure (P.S.I.)						
			Extend	Return	40	50	60	70	80	90	100
			Light Duty	620	1.75	6.20	1.96	236	295	353	412
840	2.00	8.40		2.70	319	399	479	559	638	718	798
1087	2.25	10.87		3.53	413	516	620	723	826	929	1033
1370	2.50	13.70		4.47	521	651	781	911	1041	1171	1302
1680	2.75	16.80		5.50	638	798	958	1117	1277	1436	1596
2010	3.00	20.10		6.63	764	955	1146	1337	1528	1719	1910
Medium Duty	2320	3.25	22.99	7.51	874	1092	1310	1529	1747	1966	2184
	2710	3.50	26.97	8.84	1025	1281	1537	1794	2050	2306	2562
	3140	3.75	31.24	10.26	1187	1484	1781	2077	2374	2671	2968
	3600	4.00	35.81	11.78	1361	1701	2041	2381	2722	3062	3402
Heavy Duty	4450	4.50	44.86	14.68	1705	2131	2557	2983	3409	3836	4262
	5550	5.00	56.05	18.41	2130	2662	3195	3727	4260	4792	5325
	6800	5.50	68.42	22.53	2600	3250	3900	4550	5200	5850	6500
	8150	6.00	81.97	27.05	3115	3894	4672	5451	6230	7008	7787
Quad Piston Cylinders											
Group	Model	Bore (in.)	Piston Area (Sq. In.)		Cylinder Extend Force (Lbs.) @95% Eff. Line Pressure (P.S.I.)						
			Extend	Return	40	50	60	70	80	90	100
			Light Duty	1074	2.00	10.74	2.70	408	510	612	714
1408	2.25	14.08		3.53	535	669	802	936	1070	1203	1337
1781	2.50	17.81		4.47	677	846	1015	1184	1354	1523	1692
2193	2.75	21.93		5.50	833	1042	1250	1458	1667	1875	2083
2638	3.00	26.38		6.63	1002	1253	1504	1754	2005	2255	2506