ALUMINUM CYLINDERS

POWERRAM HYDRAULIC TOOLS

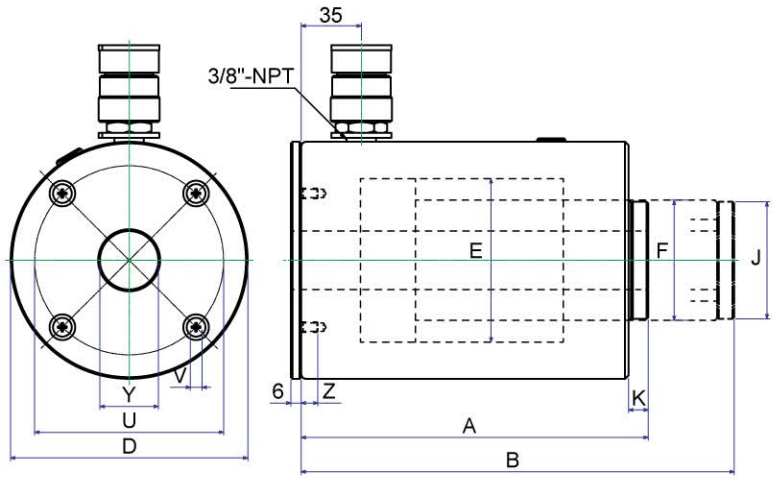


MODEL:ACHC-SERIES

Capacity: 20 - 60 Tons
Stroke: 50 - 150 mm
Spring Return, Hollow Type
Max. Working Pressure: 700 bar / 10,000 psi

FEATURES

- Half weight of the steel cylinders.
- Heavy duty spring for fast & full retraction.
- Chrome plated center hole for extra protection.
- Carrying handles are equipped with all models.
- Hard-Anodized coating reduces wear & corrosion.
- Stop rings for piston blow-out protection.
- Rod wiper protects inner rod from dirt.



Base Plate Mounting Holes Dimensions(mm)

Model No./ Capacity (ton)	Bolt Circle U (mm)	Thread V (mm)	Thread Depth Z (mm)
ACHC-20	80	M6×1.0	10
ACHC-30	110	M6×1.0	10
ACHC-60	160	M6×1.0	10

SPECIFICATIONS

Model No.	Cylinder Capacity (tons)	Stroke (mm)	Cylinder Effective Area (cm^2)	Oil Capacity (cm^3)	Collapsed Height A (mm)	Extended Height B (mm)	Outside Diameter D (mm)	Cylinder Bore Diam E(mm)	Plunger Diameter F (mm)	Base to Advance Port H(mm)	Saddle Diameter J (mm)	Saddle Protrusion form Plunger K(mm)	Center Hole Dia. Y (mm)
ACHC202	20	50	34	170	175	225	110	75	55	30	54	8	27
ACHC204		100		340	245	345	110	75	55	30	54	8	27
ACHC206		150		510	315	465	110	75	55	30	54	8	27
ACHC302	30	50	55	275	202	252	138	95	70	35	68	11.5	34
ACHC304		100		550	264.5	364.5	138	95	70	35	68	11.5	34
ACHC306		150		825	327	477	138	95	70	35	68	11.5	34
ACHC602	60	50	89.5	448	250	300	200	125	100	50	89	14	54
ACHC604		100		895	300	400	200	125	100	50	89	14	54
ACHC606		150		1342	350	500	200	125	100	50	89	14	54

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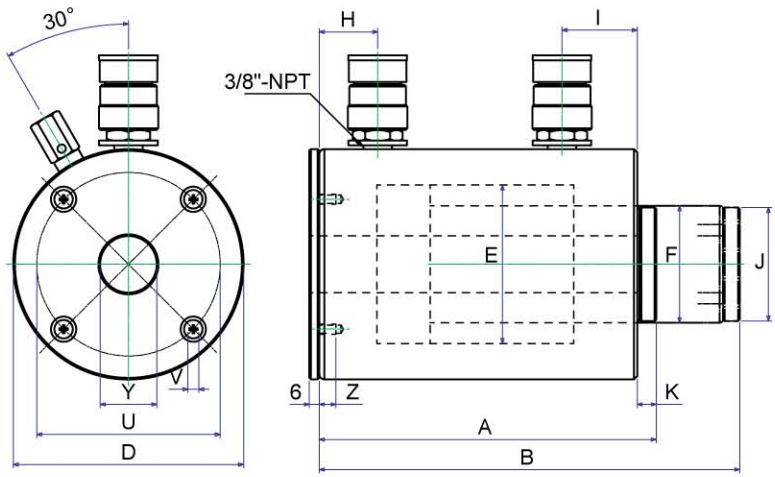
MODEL:ADHC-SERIES

Capacity: 30 & 60 Tons
Stroke: 50 - 250 mm
Hollow, Double Acting
Max. Working Pressure: 700 bar / 10,000 psi



FEATURES

- Half weight of the steel cylinders.
- Steel piston regarding protection against load damage.
- Chrome plated center sleeve for extra protection.
- Carrying handles are equipped with all models.
- Hard-Anodized coating reduces wear & corrosion.
- Stop rings for piston blow-out protection.
- Rod wiper protects inner rod from dirt.



Base Plate Mounting Holes Dimensions(mm)

Model No./ Capacity (ton)	Bolt Circle U (mm)	Thread V (mm)	Thread Depth Z (mm)
ADHC-30	110	M6×1.0	10
ADHC-60	160	M6×1.0	10

SPECIFICATIONS

Model No.	Maximum Cylinder Capacity (tons)	Stroke (mm)	Maximum Cylinder Capacity (tons)		Cylinder Effective Area (cm^2)		Oil Capacity (cm^3)		Collapsed Height A (mm)	Extended Height B (mm)	Outside Diameter D (mm)	Cylinder Bore Diam E(mm)	Plunger Diameter F (mm)	Base to Advance Port H(mm)	Top to Retract Port I(mm)	Saddle Diameter J (mm)	Saddle Protrusion form Plunger K(mm)	Center Hole Diameter Y(mm)	Weight (kgs)
			Push	Pull	Push	Pull	Push	Pull											
ADHC302	30	50	38.5	22.7	55	32.4	275	162	202	252	138	95	70	35	45	68	11.5	34	9.6
ADHC306		150					825	486	327	477	138	95	70	35	45	68	11.5	34	14.8
ADHC3010		250					1374	810	430	680	138	95	70	35	45	68	11.5	34	16.0
ADHC602	60	50	62.6	31	89.5	44.2	448	221	250	300	200	125	100	50	50	89	14	54	15.5
ADHC606		150					1342	662	350	500	200	125	100	50	50	89	14	54	23.0
ADHC6010		250					2237	1104	433	683	200	125	100	50	50	89	14	54	30.5

DOUBLE ACTION CYLINDERS

POWERRAM HYDRAULIC TOOLS



MODEL:NDAC-SERIES

Capacity: 10 - 100 Tons
Stroke: 150 - 470 mm
Max. working pressure: 700 bar / 10,000 psi
Double action

FEATURES

- Perfect for construction, shipyard, utility, mining and equipment maintenance shops.
- Piston hard chromed.
- Cylinders inside roll-polished.
- Cylinders outside blasted with black nitriding finish.

Hand / Foot Pumps
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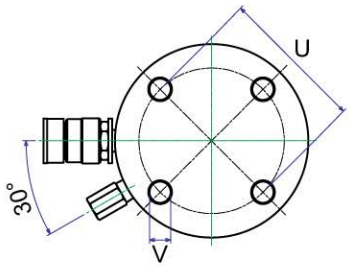


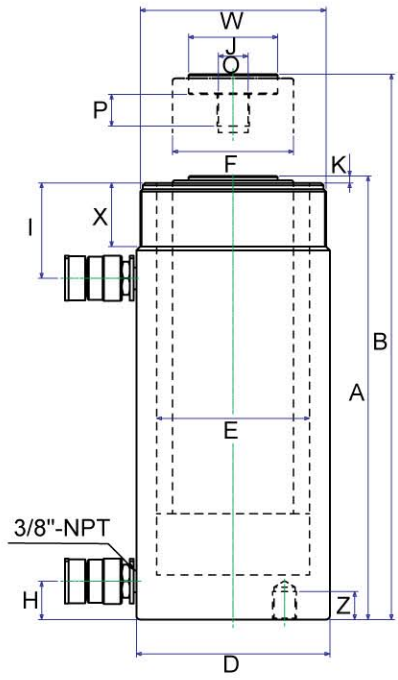


Power Pumps
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SPECIFICATIONS

Model No.	Cap. (Ton) Push	Cap. (Ton) Pull	Stroke (mm)	Oil Cap. (cm^3) Push	Oil Cap. (cm^3) Pull	A Height(mm) Retracted	B Height(mm) Extended	D Ømm	E Ømm	F Ømm	H mm	I mm	J Ømm	K mm	O ØUN	P mm	U mm	V Ø UNC	Z mm	W ØUN	X mm	Y Center Hole (Ø mm)	Weight (kgs)
NDAC1010	10	4	251	399	144	408	659	78	45	36	36.5	55	40	8	1"-8	25.4	--	--	--	2 1/4"-14	27	--	13
NDAC1012			301	478	172	458	759																15
NDAC308	30	14	209	923	426	387	596	103	75	55	25	75	50	12	1 1/2"-16	25.4	--	--	--	4"-12	50	--	20
NDAC3014			368	1625	751	547	915																29
NDAC506	50	14	150	1062	309	331	481	127	95	80	30	70	70	5	1"-12	25.4	88.9	5/8"-11	22	5"-12	50	--	29
NDAC5013			330	2338	680	511	841																43
NDAC5018			470	3330	968	675	1145				52												59
NDAC756	75	29.5	155	1752	654	348	503	152	120	95	30	75	70	5	1"-12	38	114.3	3/4"-10	22	5 3/4"-12	45	--	40
NDAC7513			333	3764	1405	526	859																58
NDAC1006	100	50.6	160	2289	1155	358	518	177	135	95	38	71	80	5	1 3/4"-12	35	139.7	3/4"-10	25	6 7/8"-12	50	--	59
NDAC10013			330	4721	2383	528	858																83

DOUBLE ACTION CYLINDERS



MODEL:NDAH-SERIES

Capacity: 30 - 100 Tons
Stroke: 76 - 257 mm
Max. working pressure: 700 bar / 10,000 psi
Double action, Hollow Plunger Cylinders.

FEATURES

- All cylinders are hollow and double action .
- Piston hard chromed.
- Cylinders inside roll-polished.
- Cylinders outside blasted with black nitriding finish.

Hand / Foot Pumps
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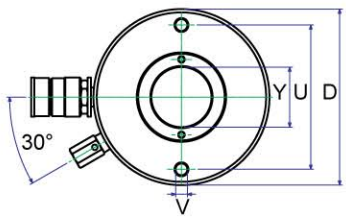


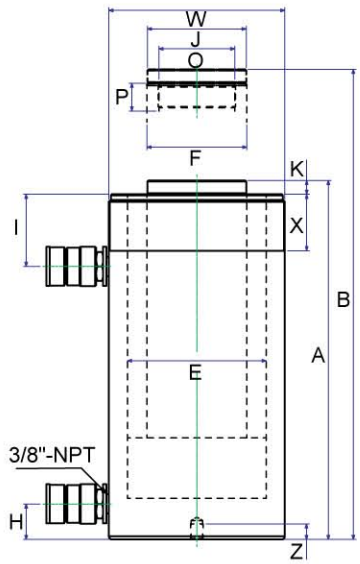


Power Pumps
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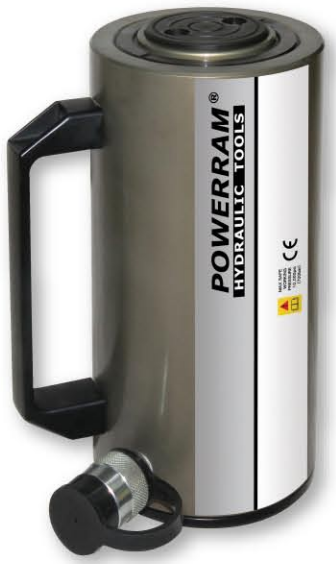


SPECIFICATIONS

Model No.	Cap. (Ton) Push	Cap. (Ton) Pull	Stroke (mm)	Oil Cap. (cm^3) Push	Oil Cap. (cm^3) Pull	A Height(mm) Retracted	B Height(mm) Extended	D Ømm	E Ømm	F Ømm	H mm	I mm	J Ømm	K mm	O ØUN	P mm	U mm	V Ø UNC	Z mm	W ØUN	X mm	Y Center Hole (Ø mm)	Weight (kgs)
NDAH307	30	21	178	849	541	330	508	117	90	65	21.5	60.5	60	0.5	1 7/8"-16	25	92	3/8"-16	14	4 1/2"-12	42	34	22
NDAH3010			257	1226	782	431	688							10									27
NDAH603			89	797	526	247.5	336.5																28
NDAH606	60	41	165	1477	975	323.5	488.5	158.6	125	90	32	65	89	12.5	2 3/4"-16	25	130	1/2"-13	14	6 1/4"-12	50	54	35
NDAH6010			257	2300	1518	437.5	694.5																45
NDAH1003			76	1086	692	254	330																52
NDAH1006	100	64	152	2172	1384	325	477	213	165	125	38	82	125	12	4"-16	30	178	5/8"-11	19	8 3/8"-12	60	79	65
NDAH10010			256	3656	2331	462	718																88

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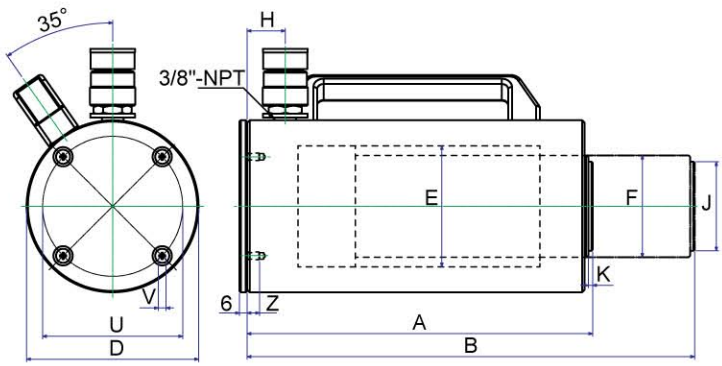
MODEL:SSA-SERIES

Capacity: 20 - 100 Ton
Stroke: 50 - 250 mm
Spring Return, Single Acting
Max. Working Pressure: 700 bar / 10,000 psi



FEATURES

- Half weight of the steel cylinders.
- Heavy duty spring for fast & full retraction.
- Large saddle surface for side load protection.
- Carrying handles are equipped for all models.
- Hard-Anodized coating reduces wear & corrosion.
- Rod wiper protects inner rod from dirt.
- Stop rings for piston blow-out protection.



Base Plate Mounting Holes Dimensions(mm)

Model No./ Capacity (ton)	Bolt Circle U (mm)	Thread V (mm)	Thread Depth Z (mm)
SSA-20	70	M6x1.0	20
SSA-30	80	M6x1.0	10
SSA-50	110	M6×1.0	10
SSA-100	160	M6×1.0	10

SPECIFICATIONS

Model No.	Capacity (tons)	Stroke (mm)	Cylinder Effective Area (cm^2)	Oil Capacity (cm^3)	Collapsed Height A (mm)	Extended Height B (mm)	Outside Diameter D (mm)	Cylinder Bore Diam E(mm)	Plunger Diameter F (mm)	Base to Advance Port H(mm)	Saddle Diameter J (mm)	Saddle Protrusion form Plunger K(mm)	Weight (kgs)
SSA202	20	50	33.2	166	168	218	92	62	55	25	40	3	4.3
SSA204		100	33.2	332	218	318	92	62	55	25	40	3	5.0
SSA206		150	33.2	498	268	418	92	62	55	25	40	3	5.7
SSA208		200	33.2	664	318	518	92	62	55	25	40	3	6.5
SSA302	30	50	44.2	221	175	225	110	75	60	25	40	3	6.0
SSA304		100	44.2	442	225	325	110	75	60	25	40	3	6.9
SSA306		150	44.2	663	275	425	110	75	60	25	40	3	7.9
SSA308		200	44.2	884	325	525	110	75	60	25	40	3	8.8
SSA502	50	50	70.9	354.5	171	221	135	95	80	30	70	6	7.7
SSA504		100	70.9	709	221	321	135	95	80	30	70	6	9.1
SSA506		150	70.9	1063.5	271	421	135	95	80	30	70	6	11.7
SSA508		200	70.9	1418	321	521	135	95	80	30	70	6	13.5
SSA5010		250	70.9	1772.5	371	621	135	95	80	30	70	6	16.4
SSA1002	100	50	143	715	185	235	200	135	105	45	70	6	17.2
SSA1004		100	143	1430	235	335	200	135	105	45	70	6	21.0
SSA1006		150	143	2145	285	435	200	135	105	45	70	6	25.1
SSA1008		200	143	2860	335	535	200	135	105	45	70	6	28.5
SSA10010		250	143	3575	388	638	200	135	105	45	70	6	30.7