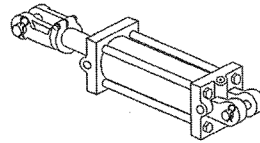


## Cylinders DB Series

500 PSI - Double acting tie rod cylinders.

PART	DESCRIPTION	Bore	Stroke	Port Size	Retracted Length	Rod Dia.	Depth Control
A-208DB	Cross Dbl Acting Cylinder	2"	8"	3/8"	18 1/4"	1 1/16"	without
A-210DB	Cross Dbl Acting Cylinder	2"	10"	3/8"	20 1/4"	1 1/16"	without
A-212DB	Cross Dbl Acting Cylinder	2"	12"	3/8"	22 1/4"	1 1/16"	without
A-214DB	Cross Dbl Acting Cylinder	2"	14"	3/8"	24 1/4"	1 1/16"	without
A-216DB	Cross Dbl Acting Cylinder	2"	16"	3/8"	26 1/4"	1 1/16"	without
A-218DB	Cross Dbl Acting Cylinder	2"	18"	3/8"	28 1/4"	1 1/16"	without
A-2508DB	Cross Dbl Acting Cylinder	2 1/2"	8"	3/8"	20 1/4"	1 1/16"	without
A-2510DB	Cross Dbl Acting Cylinder	2 1/2"	10"	3/8"	20 1/4"	1 1/16"	without
A-2512DB	Cross Dbl Acting Cylinder	2 1/2"	12"	1/2"	22 1/4"	1 1/16"	without
A-308DB	Cross Dbl Acting Cylinder	3"	8"	1/2"	18 1/4"	1 1/4"	without
A-310DB	Cross Dbl Acting Cylinder	3"	10"	1/2"	20 1/4"	1 1/4"	without
A-312DB	Cross Dbl Acting Cylinder	3"	12"	1/2"	22 1/4"	1 1/4"	without
A-314DB	Cross Dbl Acting Cylinder	3"	14"	1/2"	24 1/4"	1 1/4"	without
A-316DB	Cross Dbl Acting Cylinder	3"	16"	1/2"	26 1/4"	1 1/4"	without
A-318DB	Cross Dbl Acting Cylinder	3"	18"	1/2"	28 1/4"	1 1/4"	without.
A-320DB	Cross Dbl Acting Cylinder	3"	20"	1/2"	30 1/4"	1 1/4"	without
A-3508DB	Cross Hyd Cylinder	3 1/2"	8"	1/2"	20 1/4"	1 1/4"	without
A-3510DB	Cross Dbl Acting Cylinder	3 1/2"	10"	1/2"	20 1/4"	1 1/4"	without
A-3512DB	Cross Dbl Acting Cylinder	3 1/2"	12"	1/2"	22 1/4"	1 1/4"	without
A-3516DB	Cross Dbl Acting Cylinder	3 1/2"	16"	1/2"	26 1/4"	1 1/4"	without
A-408DB	Cross Dbl Acting Cylinder	4"	8"	1/2"	18 5/8"	1 1/4"	without
A-410DB	Cross Dbl Acting Cylinder	4"	10"	1/2"	20 5/8"	1 1/4"	without
A-412DB	Cross Dbl Acting Cylinder	4"	12"	1/2"	22 5/8"	1 1/4"	without
A-414DB	Cross Dbl Acting Cylinder	4"	14"	1/2"	24 5/8"	1 1/4"	without
A-416DB	Cross Dbl Acting Cylinder	4"	16"	1/2"	26 5/8"	1 1/4"	without
A-420DB	Cross Dbl Acting Cylinder	4"	20"	1/2"	30 5/8"	1 1/2"	without
A-424DB	Cross Dbl Acting Cylinder	4"	24"	1/2"	34 5/8"	1 1/2"	without

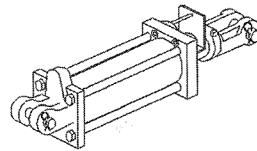
# Hydraulic Cylinders



## Cylinders DBASAE Series

Same as DB Series cylinders except longer closed center dimensions.

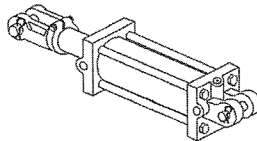
PART	DESCRIPTION	Bore	Stroke	Port Size	Retracted Length	Rod Dia	Depth Control
A-208DBASAE	Cross Dbl Acting Cylinder	2"	8"	3/8"	20 1/4"	1 1/16"	without
A-308DBASAE	Cross Dbl Acting Cylinder	3"	8"	1/2"	20 1/4"	1 1/4"	without
A-316DBASAE	Cross Dbl Acting Cylinder	3"	16"	1/2"	31 1/2"	1 1/4"	without
A-3508DBASAE	Cross Dbl Acting Cylinder	3 1/2"	8"	1/2"	20 1/4"	1 1/4"	without
A-3516DBASAE	Cross Dbl Acting Cylinder	3 1/2"	16"	1/2"	31 1/2"	1 1/2"	without
A-408DBASAE	Cross Dbl Acting Cylinder	4"	8"	1/2"	20 5/8"	1 1/4"	without
A-416DBASAE	Cross Dbl Acting Cylinder	4	16	1/2	31 1/2	2"	without
A-508DBASAE	Cross Dbl Acting Cylinder	5"	8"	1/2"	20 1/4"	1 1/2"	without



## Cylinders DC Series

Hydraulic depth control with infinite variable adjustment from zero to maximum stroke.

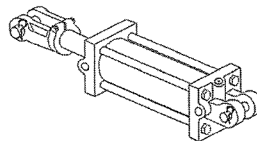
PART	DESCRIPTION	Bore	Stroke	Port Size	Retracted Length	Rod Dia.	Depth Control
A-308DC	Cross Dbl Acting Cylinder	3"	8"	1/2"	20 1/4"	1 1/4"	infinite set
A-3508DC	Cross Dbl Acting Cylinder	3 1/2"	8"	1/2"	20 1/4"	1 1/4"	infinite set
A-408DC	Cross Dbl Acting Cylinder	4"	8"	1/2"	20 1/4"	1 1/4"	infinite set



## Cylinders DE Series

Same as DBASAE Series except incorporates a depth control collar for applications requiring a mechanical depth stop.

PART	DESCRIPTION	Bore	Stroke	Port Size	Rod Dia	Depth Control
A-308DE	Cross Dbl Acting Cylinder	3"	8"	1/2"	1 1/16"	screw collar
A-3508DE	Cross Dbl Acting Cylinder	3 1/2"	8"	1/2"	1 1/4"	screw collar



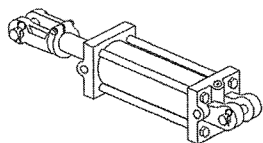
## Cylinders DU Series

Same as DASAE Series except rod extension is threaded for mechanical depth control on applications requiring a mechanical depth stop. 2500 PSI, Double Acting w/ threaded rod for depth control.

PART	DESCRIPTION	Bore	Stroke	Port Size	Retracted Length	Rod Dia	Depth Control
A-208DU	Cross Dbl Acting Cylinder	2"	8"	3/8"	20 1/4"	1 1/16"	without
A-2508DU	Cross Dbl Acting Cylinder	2 1/2"	8"	3/8"	20 1/4"	1 1/16"	without
A-308DU	Cross Dbl Acting Cylinder	3"	8"	1/2"	20 1/4"	1 1/4"	without
A-3508DU	Cross Dbl Acting Cylinder	3 1/2"	8"	1/2"	20 1/4"	1 1/4"	without
A-408DU	Cross Dbl Acting Cylinder	4"	8"	1/2"	20 5/8"	1 1/4"	withotut

# Hydraulic Cylinders & Replacement Parts

## Hydraulic Cylinder Replacement Parts



PART	Cyl Seal Kit	Hyd Cyl Pin	Clevis	Piston	Head	Cylinder Rod	Rod Clevis	Actuator Stop	Cart. Assy.	Collar Assy.
A-208DB	A-1C4244	A-7M1022	A-1D15033		A-1D11533	A-1D02031475	A-1D10033 (1-1/16")			
A-208DU	A-1C4244	A-7M1022	A-1D15033		A-1D11533	A-1D02031475	A-1D10033 (1-1/16")			A-1E60011
A-208DBASAE	A-1C4244	A-7M1022	A-1D15033		A-1D11533	A-1D02031475	A-1D10033 (1-1/16")			
A-210DB	A-1C4244	A-7M1022	A-1D15033		A-1D11533	A-1D02031475	A-1D10033 (1-1/16")			
A-212DB	A-1C4244	A-7M1022	A-1D15033		A-1D11533		A-1D10033 (1-1/16")			
A-214DB	A-1C4244	A-7M1022	A-1D15033		A-1D11533		A-1D10033 (1-1/16")			
A-216DB	A-1C4244	A-7M1022	A-1D15033		A-1D11533		A-1D10033 (1-1/16")			
A-218DB	A-1C4244	A-7M1022	A-1D15033	A-1D11533			A-1D10033 (1-1/16")			
A-2508DB	A-1C4433	A-7M1022	A-1D15053			A-1D02031475	A-1D10033 (1-1/16")			
A-2510DB	A-1C4433	A-7M1022	A-1D15053			A-1D02031475	A-1D10033 (1-1/16")			
A-2512DB	A-1C4433	A-7M1022	A-1D15053				A-1D10033 (1-1/16")			
A-308DB	A-1C4629			A-1D1401300	A-1D115713					
A-308DE	A-1C4629	A-7M1022	A-1D15074	A-1D1401300	A-1D115713		A-1D10035			A-1E60011
A-308DBASAE	A-1C4629 (1-1/4")		A-1D15074	A-1D1401300	A-1D115713	A-1D02061475	A-1D10035 (1-1/4")			
A-310DB	A-1C4629 (1-1/4")		A-1D15074	A-1D1401300	A-1D115713	A-1D02061475	A-1D10035 (1-1/4")			
A-312DB	A-1C4147 (1-1/8")		A-1D15074	A-1D1401300	A-1D115713		A-1D10035 (1-1/4")			
A-314DB	A-1C4629 (1-1/4")		A-1D15074	A-1D1401300	A-1D115713	A-1D02061875	A-1D10035 (1-1/4")			
A-316DB	A-1C4629 (1-1/4")		A-1D15074	A-1D1401300	A-1D115713		A-1D10035 (1-1/4")			
A-316DBASAE	A-1C4629 (1-1/4")	A-1D155120300		A-1D1401300	A-1D115713		A-1D10035 (1-1/4")			
A-318DB	A-1C4629 (1-1/4")		A-1D15074	A-1D1401300	A-1D115713		A-1D10035 (1-1/4")			
A-3508DB	A-1C4429		A-1D15094		A-1D11594	A-1D02051462	A-1D10035 (1-1/4")			
A-3508DE	A-1C4429	A-7M1022	A-1D15094		A-1D11594		A-1D10035 (1-1/4")			A-1E60011
A-3508DBASAE	A-1C4429		A-1D15094		A-1D11594	A-1D02051462	A-1D10035 (1-1/4")			
A-3510DB	A-1C4429		A-1D15094		A-1D11594	A-1D02051462	A-1D10035 (1-1/4")			

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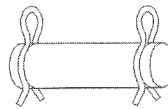
# Hydraulic Cylinders & Replacement Parts

PART	Cyl Seal Kit	Hyd Cyl Pin	Clevis	Piston	Head	Cylinder Rod	Rod Clevis	Actuator Stop	Cart. Assy.	Collar Assy.
A-3512DB	A-1C4429		A-1D15094		A-1D11594	A-1D02051662	A-1D10035 (1-1/4")			
A-3516DB	A-1C4429		A-1D15094		A-1D11594	A-1D02052062	A-1D10035 (1-1/4")			
A-3516DBASAE	A-1C4631	A-1D155120300			A-1D115913		A-1D101412 (1-1/4" Bore 16" ASAE)			
A-408DB	A-1C4430	A-7M1022	A-1D15114	A-1D1401400		A-1D02071488	A-1D10035 (1-1/4")			
A-408DBASAE	A-1C4430		A-1D15114	A-1D1401400		A-1D02071488	A-1D10035 (1-1/4")			
A-410DB	A-1C4430		A-1D15114	A-1D1401400			A-1D10035 (1-1/4")			
A-412DB	A-1C4430		A-1D15114	A-1D1401400		A-1D02071725	A-1D10035 (1-1/4")			
A-414DB	A-1C4430		A-1D15114	A-1D1401400			A-1D10035 (1-1/4")			
A-416DB	A-1C4430		A-1D15114	A-1D1401400		A-1D02072125	A-1D10035 (1-1/4")			
A-416DBASAE	A-1C4638	A-1D155120300		A-1D1401400	A-1D116122		A-1D101412			
A-420DB	A-1C4637		A-1D15114	A-1D1401400	A-1D116113		A-1D10035 (1-1/4")			
A-424DB	A-1C4637		A-1D15114	A-1D1401400	A-1D116113	A-1D02082925	A-1D10035 (1-1/4")			
A-508DBASAE	A-1C4654	A-1D155116375 z					A-1D10035 (1-1/4")			
Double Acting with depth control										
A-308DC	A-3C7681	A-1D158216300	A-3C4549	A-1D1401300				A-3C5185	A-3C7272	
A-3508DC	A-3C7682	A-1D158216300	A-3C4549					A-3C5185	A-3C7272	
A-408DC		A-1D158216300	A-3C4549	A-1D1401400				A-3C5185	A-3C7272	

**\*All cylinders use A-HC05-C - Hair Clip and A-2A0079616 - Bolt.**

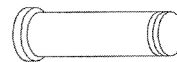
**\*See page 55 for specific part information.**

## Hydraulic Cylinder Pins



PART	DESCRIPTION	Dia.	Usable Length	Overall Length
A-7M1017	Hydraulic Cylinder Pin	1"	2 1/8"	2 7/8"
A-7M1022	Kontak Kit for Unit 18 Valves	1"	3"	3 5/8"

## Hydraulic Cylinder Pins



PART	DESCRIPTION	Dia.	Usable Length	Overall Length
A-7M1022	Hydraulic Cylinder Pin	1"	3"	3 5/8"
A-1D158216300	Hydraulic Cylinder Pin	1"	3"	
A-1D155116375	Hydraulic Cylinder Pin	1"	3 3/4"	
A-1D155120300	Hydraulic Cylinder Pin	1 1/4"	3"	