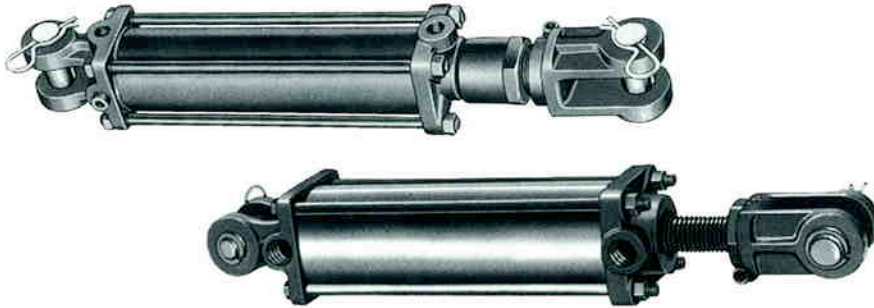
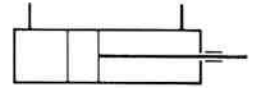




HYDRAULIC CYLINDERS

with Mechanical Depth Stop Option

TIE ROD CYLINDERS
DE-ASAE, DU SERIES
Specification Sheet



The CROSS series DE and DU tie rod cylinders have been designed for use where an 8" stroke ASAE mechanical depth stop cylinder may be required. The DE-ASAE incorporates the depth control collar. The DU cylinder features a threaded rod extension so that a mechanical depth control collar may be added if desired. For requirements not needing the depth control, refer to the CROSS DB series.

GENERAL SPECIFICATIONS

Rated working pressure (Max. relief valve setting at full flow)2500 psi (172 bar)*
 Maximum shock and surge pressure4000 psi (276 bar)
 Bore diameters

2.00	2.50	3.00	3.50	4.00	inches
51	64	76	89	102	mm

*See pin recommendations on reverse.

MATERIAL SPECIFICATIONS

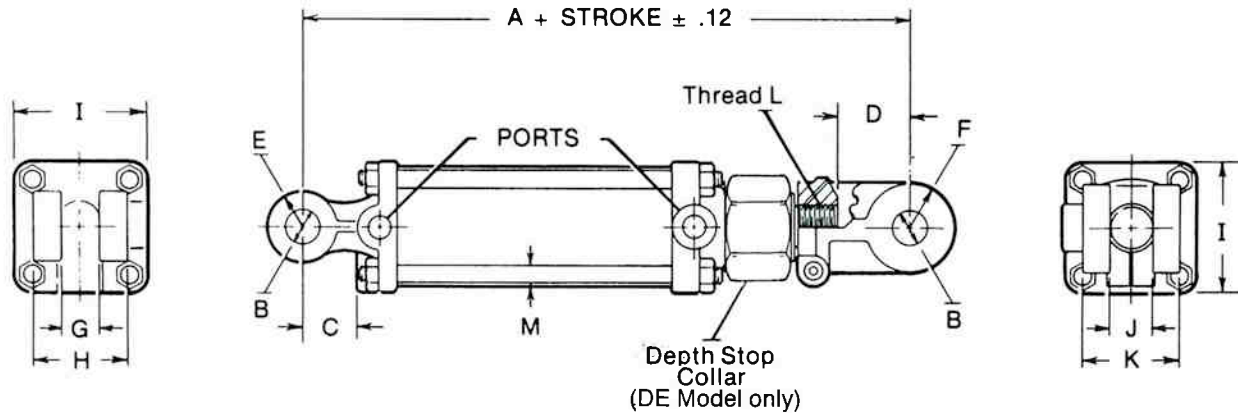
Cylinder barrelsC1025 steel alloy
 PistonsHigh strength aluminum alloy
 RodsInduction hardened C1045 steel alloy
 Base castings and rod clevisesDuctile iron
 Cylinder headsHigh tensile strength gray iron
 Seals70 durometer Buna N piston o-rings with Polyurethane back-ups
 Double lipped Polyurethane u-cup seal

STANDARD FEATURES

- Mechanical depth stop collar (2 1/4" adjustment) (1 1/8" adjustment on 4" bore) on DE
- Cylinder barrels are skived burnished precision finished to provide long seal life
- Rods are hardened, chrome plated and polished for long wear life and for protection from external damage and corrosion
- Rod wipers clean dirt and foreign matter from rod, to insure long seal life
- High tensile strength tie rods with rolled threads for durability
- Double ported base allows connections to be made at 90° to pins
- NPTF dryseal pipe thread ports
- Standard ASAE 8" stroke



DIMENSIONAL DATA in inches and (millimeters)



ALL DIMENSIONS ARE NOMINAL AND ARE FOR STANDARD CONFIGURATIONS.

BORE DIA.	A	B	C	D	E	F	G	H	I	J	K	L	M
2.00 (51)	12.25 (311)	1.015 (25.8)	1.625 (41.3)	2.125 (53.9)	.875 (22.2)	1.000 (25.4)	1.125 (28.6)	2.500 (63.5)	2.875 (73.0)	1.125 (28.6)	2.625 (66.7)	1 ¹ / ₁₆ -12	.375 (9.5)
2.50 (64)	12.25 (311)	1.015 (25.8)	1.625 (41.3)	2.125 (53.9)	1.000 (25.4)	1.000 (25.4)	1.125 (28.6)	2.625 (66.7)	3.250 (82.6)	1.125 (28.6)	2.625 (66.7)	1 ¹ / ₁₆ -12	.375 (9.5)
3.00 (76)	12.25 (311)	1.015 (25.8)	1.625 (41.3)	2.125 (53.9)	1.000 (25.4)	1.000 (25.4)	1.125 (28.6)	2.625 (66.7)	3.750 (95.2)	1.125 (28.6)	2.625 (66.7)	1 ¹ / ₄ -12	.500 (12.7)
3.50 (89)	12.25 (311)	1.015 (25.8)	1.625 (41.3)	2.125 (53.9)	1.000 (25.4)	1.000 (25.4)	1.250 (31.8)	2.750 (69.8)	4.250 (107.9)	1.250 (31.8)	2.750 (69.8)	1 ¹ / ₄ -12	.562 (14.3)
4.00 (102)	12.25 (311)	1.015 (25.8)	2.000 (50.8)	2.125 (53.9)	1.125 (28.6)	1.000 (25.4)	1.250 (31.8)	2.875 (73.0)	5.000 (127)	1.250 (31.8)	2.750 (69.8)	1 ¹ / ₄ -12	.625 (15.9)

PIN RECOMMENDATIONS: For pressures above 2000 psi on 3 1/2" bore or 1500 psi on 4" bore, hardened pins and bushings are required.

ORDERING INFORMATION

Characteristics of the DE-ASAE and DU cylinders are shown for reference purposes. (Contact CROSS Sales Department for DE-ASAE or DU cylinders with SAE straight thread o-ring ports or hardened pins and bushings.)

MODEL NUMBER	BORE DIA. inches mm	ROD DIA. inches mm	PIN DIA. inches mm	PORT size type	WEIGHT lbs. Kg
208	2.00 (51)	1.062 (27.0)	1 (25.4)	3/8 NPTF	20 (9.07)
2508	2.50 (64)	1.062 (27.0)	1 (25.4)	3/8 NPTF	21 (9.5)
308	3.00 (76)	1.250 (31.8)	1 (25.4)	1/2 NPTF	25 (11.34)
3508	3.50 (89)	1.250 (31.8)	1 (25.4)	1/2 NPTF	33 (14.97)
408	4.00 (102)	1.250 (31.8)	1 (25.4)	1/2 NPTF	44 (19.96)



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