



NC-5 & HD-1

NC-5

*Ford Standard
250 PSI Rated
Heavy-Duty
Air Cylinders*

HD-1

*Ford Standard
1500 PSI Rated
Low-Pressure
Hydraulic Cylinders*



- * Pictured is the NC5 (250 PSI Rated Air Cylinder). The HD1 (1500 PSI Rated Hydraulic Cylinder) is dimensionally the same, but uses low pressure hydraulic seals.

27650 Groesbeck Highway * Roseville, Michigan 48066-2759
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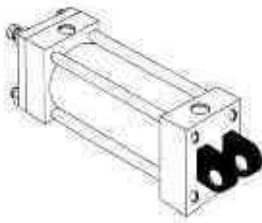
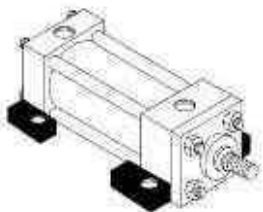
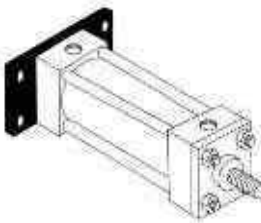
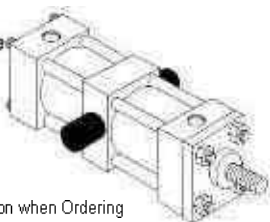
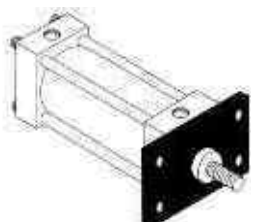
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Mounting Styles

NC-5 & HD-1 Pages 3 - 12



Cap Fixed Clevis (MP1)  Page 3, 9	Foot Side Lugs (MS2)  Page 4, 8	Cap Rectangular Flange (MF2)  Page 5, 11
Intermediate Trunnion (MT4)  Page 6, 10 * Note: Specify XI dimension when Ordering An Intermediate Trunnion (MT4) Cylinder.	Head Rectangular Flange (MF1)  Page 7, 12	

ORDERING PROCEDURE

WHEN ORDERING - SPECIFY :

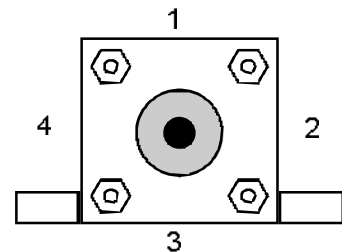
- 1) Specify “NC5” or “HD1” (Standard Group Code(s) used in all NC5 & HD1 Model Numbers)

- 2) Specify Description NPTF Double Supply Ports are Standard at the following Positions per Mounting Style
- | | | |
|-----|------------------|-----------------|
| F = | Foot Mount | Positions 2 & 4 |
| C = | Clevis Mount | Positions 2 & 4 |
| T = | Trunnion Mount | Positions 2 & 4 |
| B = | Blind End Flange | Positions 1 & 3 |
| R = | Rod End Flange | Positions 2 & 4 |

- 3) Specify Cushion Location

B = Cushion on Blind End
R = Cushion on Rod End
BR = Cushion on Both Blind & Rod Ends
NC = No Cushions

- 4) Specify Cylinder Bore Size



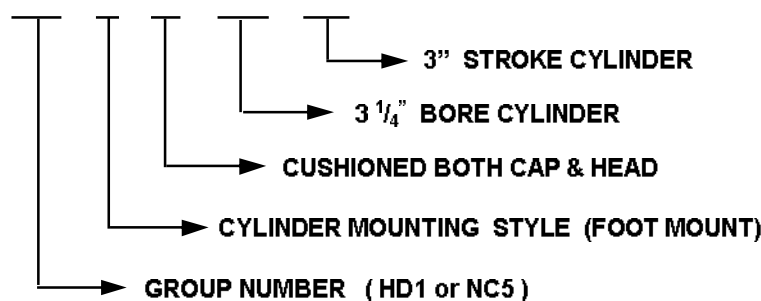
NOTE: Rod Diameters and Threads Sizes are Standard per Bore Size

Bore Size	Rod Diameter	Thread Size
1 1/2"	7/8"	3/4 - 10
2"	1 1/8"	1 - 8
2 1/2", 3 1/4"	1 3/8"	1 1/4 - 12
4", 4 1/2"	1 5/8"	1 1/2 - 12
5", 6"	2 1/8"	2 - 12
8"	3"	2 3/4 - 12

- 5) Specify Cylinder Stroke

Example:

NC5 - F - BR - 3.25 - 7.00



**PENINSULAR
CYLINDER CO.**

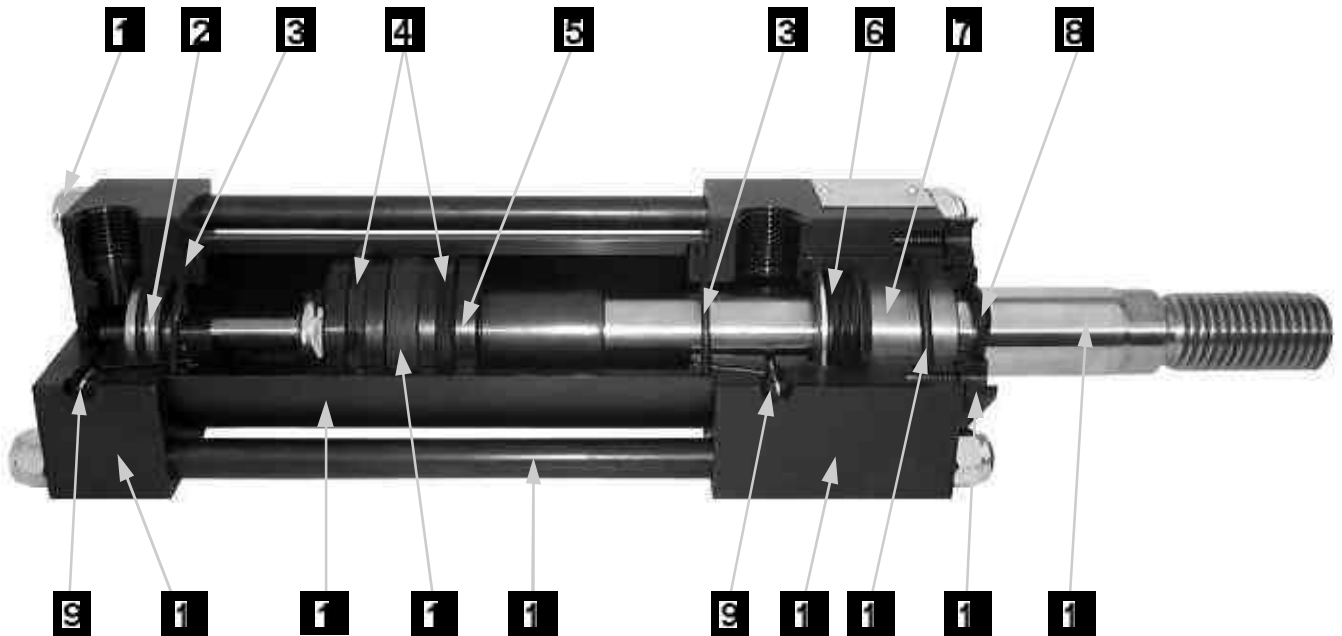
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Note: Consult Factory if the
Cylinder needs to be
Proximity Switch

NC5 & HD1 Cylinder Parts List

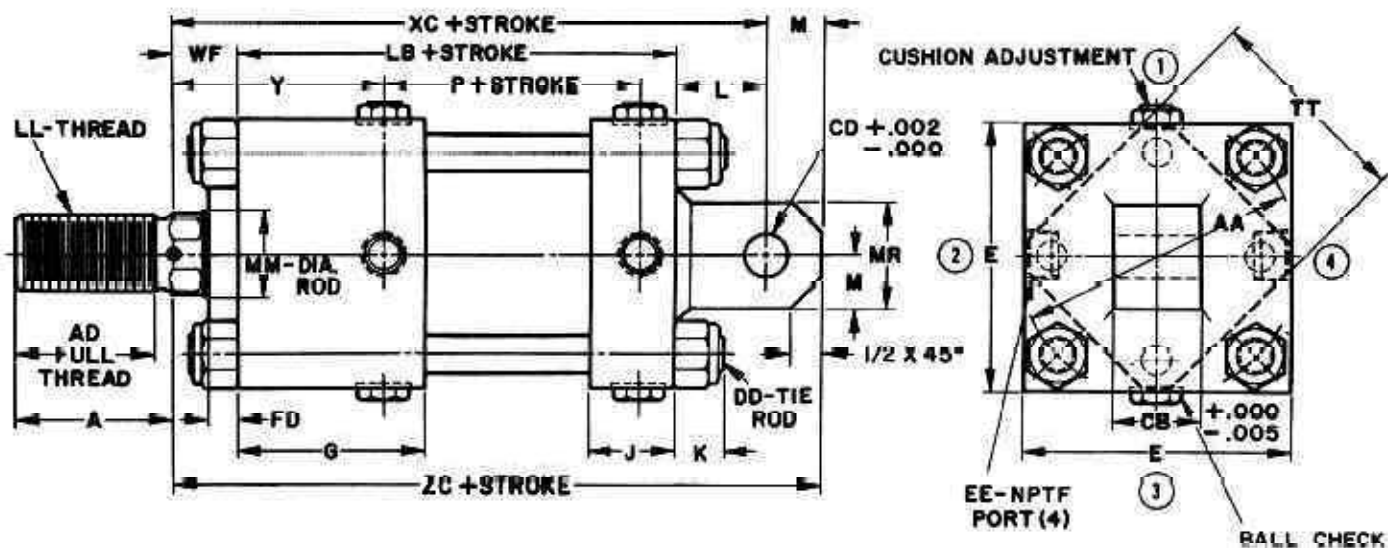


1. Tie Rod Nut
2. Cushion Seal
3. Tube O-Ring
4. Piston U-Cups
5. Piston
6. Rod Seal
7. Rod Cartridge
8. Rod Wiper
9. Cushion Adjustment

10. Cap End
11. Cylinder Tube
12. Wear Band
13. Tie Rod
14. Head
15. Rod Cartridge O-Ring
16. Rod Cartridge Retainer Plate
17. Piston Rod; Specify Rod End Style & Diameter

Note: The cylinder shown is the NC5. The HD1 is the same except with Teflon backup rings

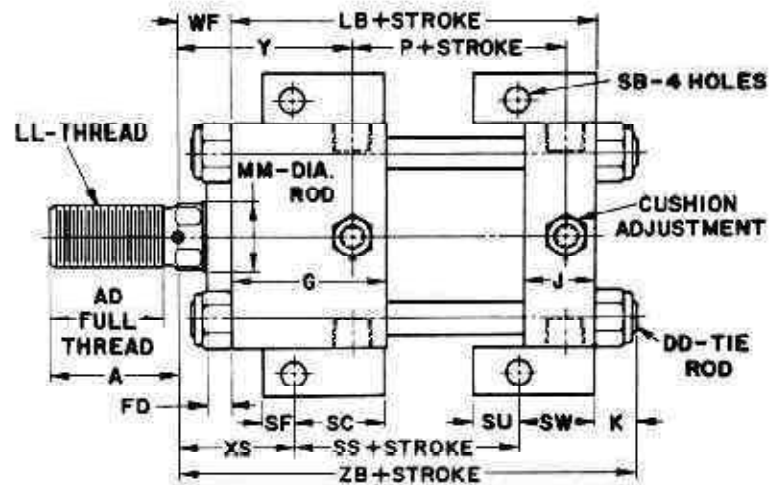
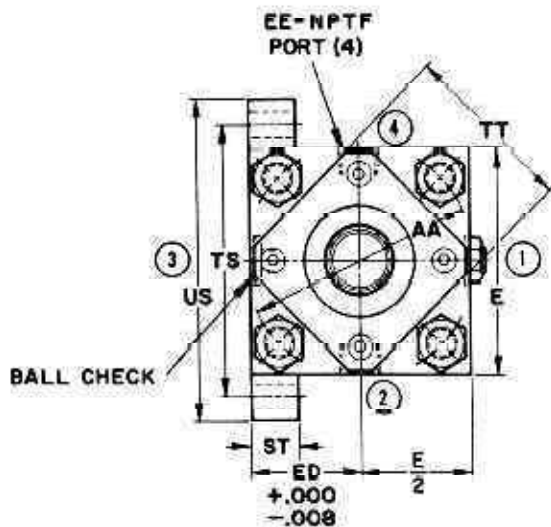
NC5-C HEAVY DUTY AIR CYLINDERS



BORE	1-1/2	2	2-1/2	3-1/4	4	4-1/2	5	6	8
A	2	2-1/8	2-5/8	2-5/8	3-1/8	3-1/8	4-1/8	4-1/8	5-5/8
AA	2.56	3.19	3.71	4.78	5.49	6.19	6.62	7.78	10.25
AD	1-3/4	1-3/4	2-3/8	2-3/8	2-3/4	2-3/4	3-3/4	3-3/4	5-1/8
CB	1	1	1-1/2	1-1/2	2	2	2-1/2	2-1/2	3
CD	.626	.626	.751	.751	1.001	1.001	1.501	1.501	2.001
DD	3/8 -24	7/16 -20	1/2 -20	5/8 -18	5/8 -18	5/8 -18	3/4 -16	3/4 -16	1-1/8 -12
E	2-1/2	3	3-1/2	4-1/2	5	5-1/2	6	7	9-1/4
EE	1/2	1/2	1/2	1/2	3/4	3/4	3/4	3/4	1
FD	3/8	3/8	3/8	1/2	1/2	1/2	1/2	1/2	1/2
G	2-5/8	2-13/16	3-3/16	3-3/16	3-7/16	3-7/16	4	4	4-3/4
J	1-7/16	1-7/16	1-7/16	1-7/16	1-5/8	1-5/8	1-5/8	1-5/8	2
K	33/64	33/64	21/32	27/32	27/32	27/32	15/16	15/16	1-1/4
L	1-5/16	1-1/4	1-3/8	1-1/2	1-3/4	1-3/4	2-1/8	2-1/8	3
LB	6-3/8	6-9/16	7-7/16	7-7/16	8-3/16	8-3/16	9-3/8	9-3/8	10-3/4
LL	3/4-10 UNC-3	1-8 UNC-3	1-1/4-12 UNF-3	1-1/4-12 UNF-3	1-1/2-12 UNF-3	1-1/2-12 UNF-3	2-12 UN-3	2-12 UN-3	2-3/4-12 UN-3
M	3/4	3/4	7/8	7/8	1-1/8	1-1/8	1-1/2	1-1/2	2
MM	7/8	1-1/8	1-3/8	1-3/8	1-5/8	1-5/8	2-1/8	2-1/8	3
MR	1-1/2	1-1/2	1-3/4	1-3/4	2-1/4	2-1/4	3	3	4
P	3-13/16	3-7/8	4-3/8	4-3/8	4-3/4	4-3/4	5-3/8	5-3/8	6
TT	2	2-1/4	2-3/4	3-1/2	4	4	4-1/2	4-1/2	7
WF	1-1/16	1-1/8	1-1/8	1-1/8	1-3/8	1-3/8	1-5/8	1-5/8	1-3/4
XC	8-3/4	8-15/16	9-15/16	10-1/16	11-5/16	11-5/16	13-1/8	13-1/8	15-1/2
Y	3	3-1/4	3-5/8	3-5/8	4	4	4-13/16	4-13/16	5-1/2
ZC	9-1/2	9-11/16	10-13/16	10-15/16	12-7/16	12-7/16	*14-5/8	14-5/8	17-1/2

CLEVIS MOUNT

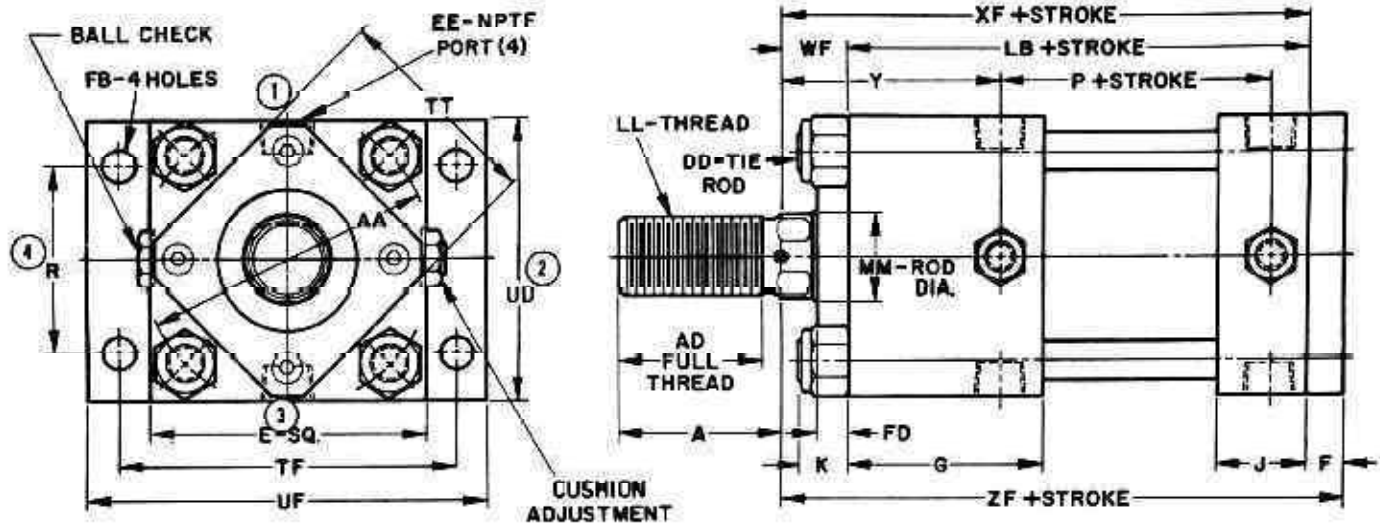
NC5-F HEAVY DUTY AIR CYLINDERS



BORE	1-1/2	2	2-1/2	3-1/4	4	4-1/2	5	6	8
A	7	8-1/8	8-3/8	10-1/8	11-1/8	11-1/8	12-1/8	12-1/8	15-1/8
AA	2.56	3.19	3.71	4.78	5.49	6.19	6.52	7.78	10.25
AD	1-3/4	1-3/4	2-3/8	2-3/8	2-3/4	2-3/4	3-3/4	3-3/4	5-1/8
DD	3/8-24	7/16-20	1/2-20	5/8-18	5/8-18	5/8-18	3/4-16	3/4-16	1-1/8-12
E	2-1/2	3	3-1/2	4-1/2	5	5-1/2	6	7	9-1/4
EE	1/2	1/2	1/2	1/2	3/4	3/4	3/4	3/4	1
ED	1-1/4	1-1/2	1-3/4	2-1/4	2-1/2	2-3/4	3-1/4	3-3/4	4-3/4
FD	3/8	3/8	3/8	1/2	1/2	1/2	1/2	1/2	1/2
G	2-5/8	2-13/16	2-3/16	2-3/16	2-7/16	2-7/16	4	4	4-3/4
J	1-7/16	1-7/16	1-7/16	1-7/16	1-5/8	1-5/8	1-5/8	1-5/8	2
K	33/64	33/64	11/32	27/32	27/32	27/32	15/16	15/16	1-1/4
LB	6-3/8	6-9/16	7-7/16	7-7/16	8-3/16	8-3/16	9-3/8	9-3/8	10-3/4
LL	2-1/8 UNF-2	1-9 UNF-2	1-3/4-12 UNF-2	1-1/4-12 UNF-2	1-1/2-12 UNF-2	1-1/2-12 UNF-2	2-1/8 UN-2	2-1/8 UN-2	2-3/4-12 UN-2
MM	7/8	1-1/8	1-3/8	1-3/8	1-5/8	1-5/8	2-1/8	2-1/8	3
P	1-13/16	2-7/8	4-3/8	4-3/8	4-3/4	4-3/4	5-3/8	5-3/8	6
SB	13/32	13/32	17/32	17/32	21/32	21/32	25/32	25/32	1-1/32
SC	1-9/16	1-1/2	1-7/8	1-7/8	2	2	2-3/8	2-3/8	2-1/4
SF	3/16	5/8	5/8	5/8	3/4	3/4	7/8	7/8	1
SS	2-13/16	4	4-1/4	4-1/4	5	5	6	6	6-3/4
ST	9/16	9/16	13/16	15/16	15/16	15/16	1-1/16	1-1/16	1-3/16
SU	9/16	9/16	1-1/16	1-1/16	13/16	13/16	1-3/8	1-3/8	1-1/8
SW	1-9/16	1-9/16	1-7/16	1-7/16	1-15/16	1-15/16	1-7/8	1-7/8	2-1/8
TS	1-1/2	1	4-3/4	5-1/2	6-1/4	7	7-1/2	8-1/2	11-3/4
TT	2	2-1/4	2-3/4	3-1/2	4	4	4-1/2	4-1/2	7
US	1-1/4	4-3/4	5-3/4	6-1/2	7-1/2	8-1/4	9	10	12-1/4
WF	1-1/16	1-1/8	1-1/8	1-1/8	1-3/8	1-3/8	1-5/8	1-5/8	1-3/4
XS	2-1/16	2-1/8	2-3/8	2-3/8	2-5/8	2-5/8	3-1/8	3-1/8	3-5/8
Y	3	3-1/4	3-5/8	3-5/8	4	4	4-13/16	4-13/16	5-1/2
ZB	7-61/64	8-13/64	9-7/32	9-13/32	10-13/32	10-13/32	11-15/16	11-15/16	13-3/4

FOOT MOUNT

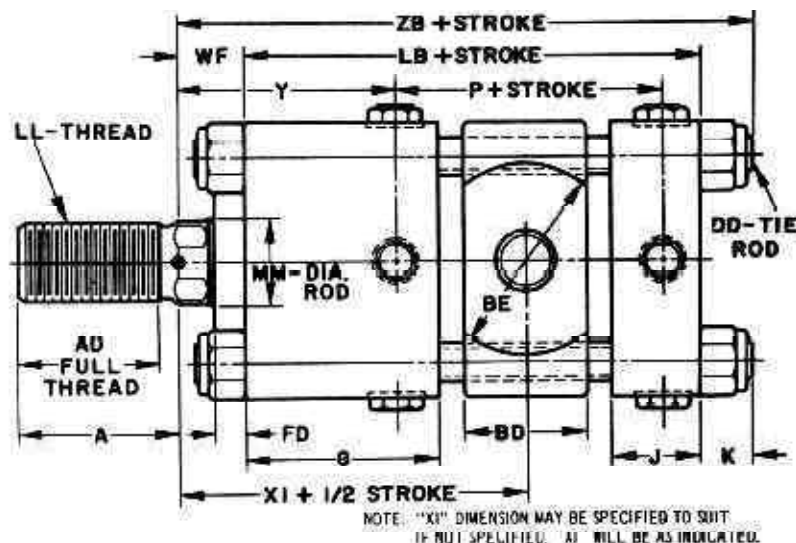
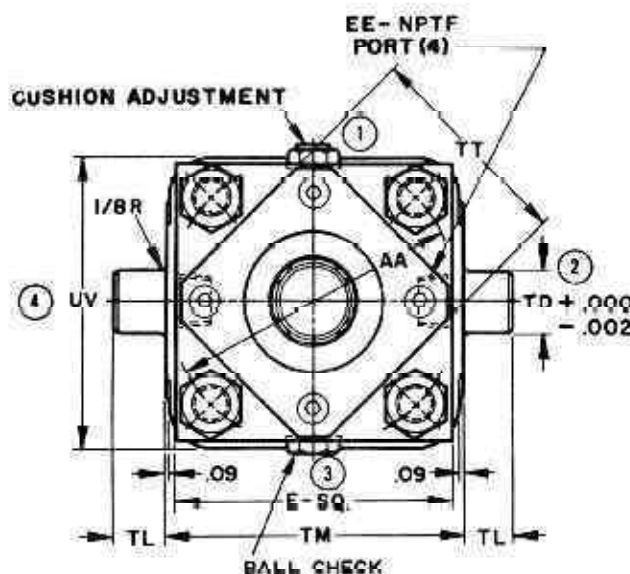
NC5-B HEAVY DUTY AIR CYLINDERS



BORE	1-1/2	2	2-1/2	3-1/4	4	4-1/2	5	6	8
A	2	2-1/8	2-5/8	2-3/8	3-1/8	3-1/8	4-1/8	4-1/8	5-5/8
AA	2.56	3.19	3.71	4.78	5.49	6.19	6.62	7.78	10.25
AD	1-3/4	1-3/4	2-3/8	2-3/8	2-3/4	2-3/4	3-3/4	3-3/4	4-1/8
DD	3/8-24	7/16-20	1/2-20	5/8-16	5/8-18	5/8-18	3/4-16	3/4-16	1-1/8-12
E	1-1/2	3	3-1/2	4-1/2	5	5-1/2	6	7	9-1/4
EE	1/2	1/2	1/2	1/2	3/4	3/4	3/4	3/4	1
F	1/2	1/2	5/8	5/8	5/8	5/8	2-1/4	2-1/4	1
FB	13/32	13/32	17/32	17/32	21/32	21/32	25/32	25/32	1-1/32
FD	1/8	3/8	3/8	1/2	1/2	1/2	1/2	1/2	1/2
G	2-5/8	2-13/16	3-3/16	3-3/16	3-7/16	3-7/16	4	4	4-3/4
J	1-7/16	1-7/16	1-7/16	1-7/16	1-5/8	1-5/8	1-5/8	1-5/8	2
K	33/64	33/64	21/32	22/32	27/32	27/32	15/16	15/16	1-1/4
LB	6-3/8	6-5/16	7-7/16	7-7/16	8-3/16	8-3/16	9-3/8	9-3/8	10-3/4
LL	3/4-10 UNC-3	1-8 UNC-3	1-1/4-12 UNF-3	1-1/4-12 UNF-3	1-1/2-12 UNF-3	1-1/2-12 UNF-3	2-12 UN-3	2-12 UN-3	2-3/4-12 UN-3
MM	7/8	1-1/8	1-3/8	1-3/8	1-5/8	1-5/8	2-1/8	2-1/8	3
P	3-13/16	3-1/8	4-3/8	4-1/4	4-3/4	4-3/4	5-3/8	5-3/8	6
R	1-1/2	2	2-1/2	3	3-1/2	4	4-1/2	5-1/2	7
TF	3-1/2	4	4-3/4	5-1/2	6-1/4	7	7-1/2	8-1/2	11-1/4
TT	2	2-1/4	2-3/4	3-1/2	4	4	4-1/2	4-1/2	7
UD	2-1/2	3	3-1/2	4-1/2	5	5-1/2	6	7	10
UF	4-1/4	4-3/4	5-3/4	6-1/2	7-1/2	8-1/4	9	10	13-1/4
WF	1-1/16	1-1/8	1-1/8	1-3/8	1-3/8	1-3/8	1-5/8	1-5/8	1-3/4
XF	7-7/16	7-11/16	8-9/16	8-9/16	9-9/16	9-9/16	11	11	12-1/2
Y	3	3-1/4	3-5/8	3-5/8	4	4	4-13/16	4-13/16	5-1/2
ZF	7-15/16	8-3/16	9-3/16	9-3/16	10-3/16	10-3/16	11-3/4	11-3/4	13-1/2

CAP END FLANGE MOUNT

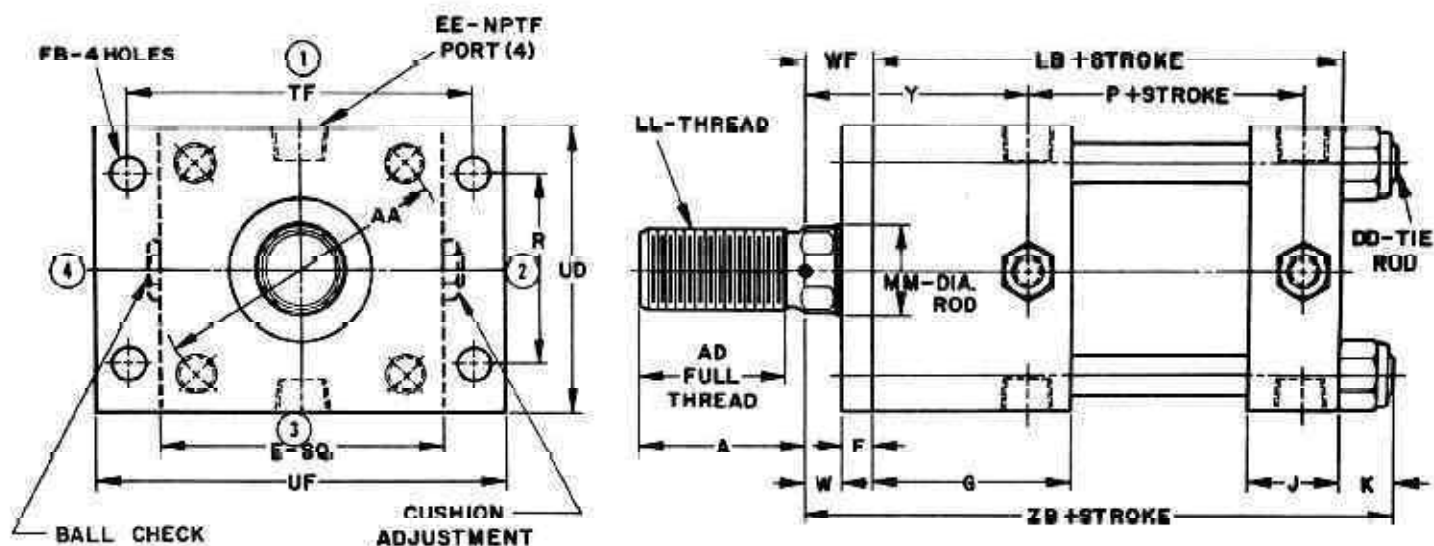
NC5-T HEAVY DUTY AIR CYLINDERS



BORE	1-1/2	2	2-1/2	3-1/4	4	4-1/2	5	6	8
A	2	2-1/8	2-5/8	2-5/8	3-1/8	3-1/8	4-1/8	4-1/8	5-5/8
AA	2.56	3.19	3.71	4.78	5.49	6.19	6.62	7.78	10.25
AD	1-3/4	1-3/4	2-3/8	2-3/8	2-3/4	2-3/4	3-3/4	3-3/4	5-1/8
BD	1-3/4	1-3/4	1-3/4	2	2-1/8	2-1/2	2-1/2	2-1/2	3
BE	2-1/16	2-1/16	2-3/8	2-3/4	3-1/8	3-3/4	4	5	4-1/2
DD	3/8 - 24	7/16 - 20	1/2 - 20	5/8 - 18	5/8 - 18	5/8 - 18	3/4 - 16	3/4 - 16	1-1/8 - 12
E	2-1/2	3	3-1/2	4-1/2	5	5-1/2	6	7	9-1/4
EE	1/2	1/2	1/2	1/2	3/4	3/4	3/4	3/4	1
FD	3/8	3/8	3/8	1/2	1/2	1/2	1/2	1/2	1/2
G	2-5/8	2-13/16	3-3/16	3-3/16	3-7/16	3-7/16	4	4	4-3/4
J	1-7/16	1-7/16	1-7/16	1-7/16	1-5/8	1-5/8	1-5/8	1-5/8	2
K	33/64	33/64	21/32	27/32	27/32	27/32	15/16	15/16	1-1/4
LB	5-3/8	6-9/16	7-7/16	7-7/16	8-3/16	8-3/16	9-3/8	9-3/8	10-3/4
LL	3/4-10 UNC-3	1-8 UNC-3	1-1/4-12 UNF-3	1-1/4-12 UNF-3	1-1/2-12 UNF-3	1-1/2-12 UNF-3	2-12 UN-3	2-12 UN-3	2-3/4-12 UN-3
MM	7/8	1-1/8	1-3/8	1-3/8	1-5/8	1-5/8	2-1/8	2-1/8	3
P	3-13/16	3-7/8	4-3/8	4-3/8	4-3/4	4-3/4	5-3/8	5-3/8	6
TD	.999	.999	.999	.999	1.499	1.499	1.499	1.499	1.999
TL	1	1	1	1	1-3/8	1-3/8	1-3/8	1-3/8	1-3/4
TM	2-1/2	3	3-1/2	4-1/2	5-3/4	6-1/4	7-1/4	8-1/4	11-1/2
TT	7	2-1/4	2-3/4	3-1/2	4	4	4-1/2	4-1/2	7
UV	2-3/4	3-1/4	3-3/4	4-1/2	5-1/2	6-1/4	7-1/4	8-1/4	10-1/2
WF	1-1/16	1-1/8	1-1/8	1-1/8	1-3/8	1-3/8	1-5/8	1-5/8	1-3/4
XB	4-27/32	5-1/8	5-3/4	5-3/4	6-3/8	6-3/8	7-1/2	7-1/2	8-1/2
Y	3	3-1/4	3-5/8	3-5/8	4	4	4-13/16	4-13/16	5-1/2
ZB	7-61/64	8-13/64	9-7/32	9-13/32	10-13/32	10-13/32	11-15/16	11-15/16	13-3/4

TRUNNION MOUNT

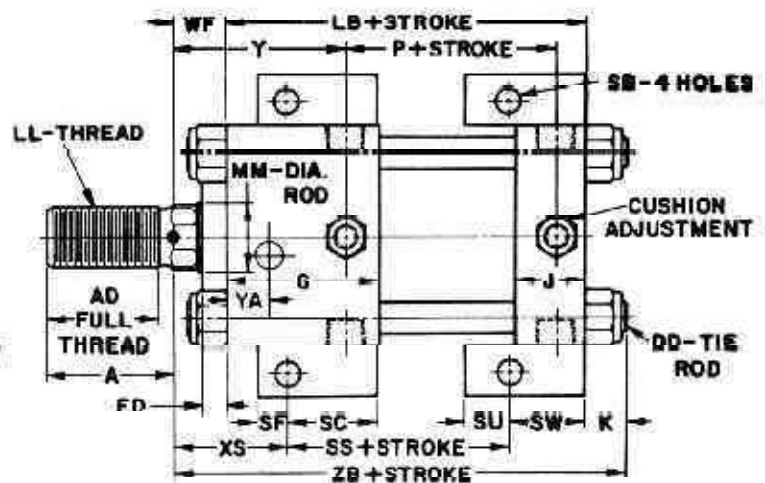
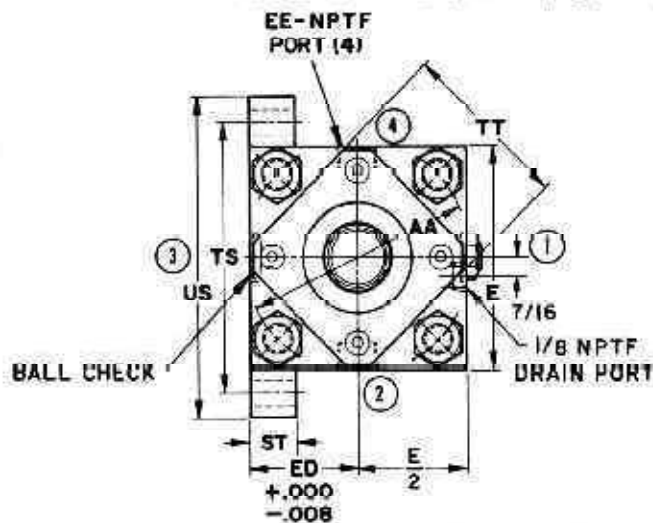
NC5-R HEAVY DUTY AIR CYLINDERS



BORE	1-1/2	2	2-1/2	3-1/4	4	4-1/2	5	6	8
A	2	2-1/8	2-5/8	2-5/8	3-1/8	3-1/8	4-1/8	4-1/8	5-5/8
AA	2.56	3.19	3.71	4.78	5.49	6.19	6.62	7.78	10.25
AD	1-3/4	1-3/4	2-3/8	2-3/8	2-3/4	2-3/4	3-3/4	3-3/4	5-1/8
DD	3/8 -24	7/16 -20	1/2 -20	5/8 -18	5/8 -18	5/8 -18	3/4 -16	3/4 -16	1-1/8 -12
E	2-1/2	3	3-1/2	4-1/2	5	5-1/2	6	7	9-1/4
EE	1/2	1/2	1/2	1/2	3/4	3/4	3/4	3/4	1
F	1/2	1/2	5/8	5/8	5/8	5/8	3/4	3/4	1
FB	13/32	13/32	17/32	17/32	21/32	21/32	25/32	25/32	1-1/32
G	2-5/8	2-13/16	3-3/16	3-3/16	3-7/16	3-7/16	4	4	4-3/4
J	1-7/16	1-7/16	1-7/16	1-7/16	1-5/8	1-5/8	1-5/8	1-5/8	2
K	33/64	33/64	21/32	27/32	27/32	27/32	15/16	15/16	1-1/4
LB	6-3/8	6-9/16	7-7/16	7-7/16	8-3/16	8-3/16	9-3/8	9-3/8	10-3/4
LL	3/4-10 UNC-3	1-8 UNC-3	1-1/4-12 UNF-3	1-1/4-12 UNF-3	1-1/2-12 UNF-3	1-1/2-12 UNF-3	2-12 UN-3	2-12 UN-3	2-3/4-12 UN-3
MM	7/8	1-1/8	1-3/8	1-3/8	1-5/8	1-5/8	2-1/8	2-1/8	3
P	3-13/16	3-7/8	4-3/8	4-3/8	4-3/4	4-3/4	5-3/8	5-3/8	6
R	1-1/2	2	2-1/2	3	3-1/2	4	4-1/2	5-1/2	7
TF	3-1/2	4	4-3/4	5-1/2	6-1/4	7	7-1/2	8-1/2	11-1/4
UD	2-1/2	3	3-1/2	4-1/2	5	5-1/2	6	7	10
UF	4-1/4	4-3/4	5-3/4	6-1/2	7-1/2	8-1/4	9	10	13-1/4
W	9/16	5/8	1/2	1/2	3/4	3/4	7/8	7/8	3/4
WF	1-1/16	1-1/8	1-1/8	1-1/8	1-3/8	1-3/8	1-5/8	1-5/8	1-3/4
Y	3	3-1/4	3-5/8	3-5/8	4	4	4-13/16	4-13/16	5-1/2
ZB	7-61/64	8-13/64	9-7/32	9-13/32	10-13/32	10-13/32	11-15/16	11-15/16	13-3/4

ROD END FLANGE MOUNT

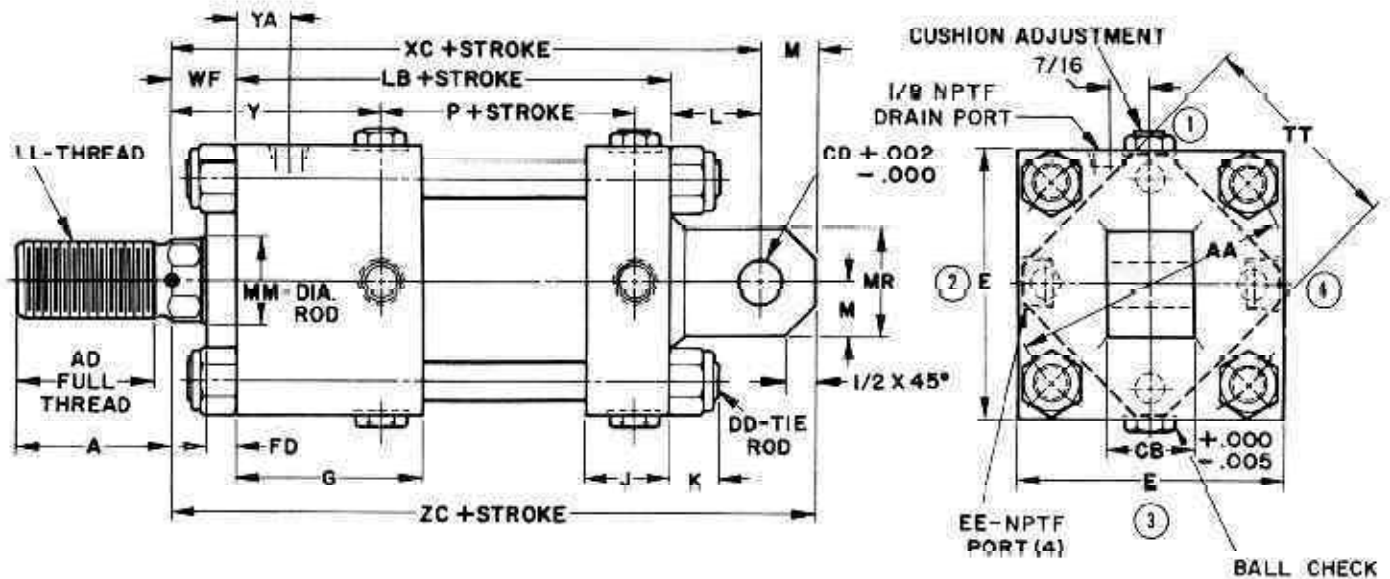
HD1-F LOW PSI HYDRAULIC CYLINDERS



BORE	1-1/2	2	2-1/2	3-1/4	4	4-1/2	5	6	8
A	2	2-1/8	2-5/8	2-5/8	3-1/8	3-1/8	4-1/8	4-1/8	5-5/8
AA	7.56	9.19	9.41	9.48	9.49	9.49	9.62	9.78	10.25
AD	1-3/4	1-3/4	2-3/8	2-3/8	2-3/4	2-3/4	3-3/4	3-3/4	3-1/8
DD	5/8-24	7/16-20	1/2-20	5/8-18	5/8-18	5/8-18	3/4-16	1/4-16	1-1/8-12
E	2-1/2	3	3-1/2	4-1/2	5	5-1/2	6	7	9-1/4
EE	1/2	1/2	1/2	1/2	3/4	3/4	1	1	1-1/4
ED	1-1/4	1-1/2	1-3/4	2-1/4	2-1/2	2-3/4	3-1/4	3-3/4	4-3/4
FD	3/8	3/8	3/8	1/2	1/2	1/2	1/2	1/2	1/2
G	2-5/8	2-13/16	3-3/16	3-3/16	3-7/16	3-7/16	4	4	4-3/4
J	1-7/16	1-7/16	1-7/16	1-7/16	1-5/8	1-5/8	1-5/8	1-3/8	2
K	13/64	33/64	21/32	27/32	27/32	27/32	15/16	15/16	1-1/4
LB	6-3/8	6-9/10	7-3/10	7-1/10	6-5/10	6-5/10	7-3/10	7-3/10	10-3/4
LL	3/4-10 UNF-3	1-8 UNC-3	1-1/4-12 UNF-3	1-1/4-12 UNF-3	1-1/2-12 UNF-3	1-1/2-12 UNF-3	2-12 UN-3	2-12 UN-3	2-3/4-12 UN-3
MM	7/8	1-1/8	1-3/8	1-3/8	1-5/8	1-5/8	2-1/8	2-1/8	3
P	3-13/16	3-7/8	4-3/8	4-3/8	4-3/4	4-3/4	5-3/8	5-3/8	6
SB	13/32	13/32	17/32	17/32	25/32	25/32	25/32	25/32	1-5/16
SC	1-9/16	1-1/2	1-7/8	1-7/8	2	2	2-3/8	2-3/8	2-1/4
SF	3/16	5/8	5/8	5/8	3/4	3/4	7/8	7/8	1
SS	3-13/16	4	4-3/4	4-3/4	5	5	6	6	6-3/4
ST	2-1/8	2-1/8	10-1/8	16-1/8	16-1/8	16-1/8	1-1/16	1-1/16	1-2-1/8
SU	9/16	9/16	1-1/16	1-1/16	13/16	13/16	1-3/8	1-3/8	1-1/8
SW	1-9/16	1-9/16	1-7/16	1-7/16	1-15/16	1-15/16	1-7/8	1-7/8	2-1/8
TS	3-1/2	4	4-3/4	5-1/2	6-1/4	7	7-1/2	8-1/2	11-1/4
TT	2	2-1/4	2-3/4	2-3/2	4	4	4-3/2	4-1/2	7
US	4-1/4	4-3/4	5-3/4	6-1/2	7-1/2	8-1/4	9	10	13-1/4
WF	1-1/16	1-1/8	1-1/8	1-1/8	1-3/8	1-3/8	1-5/8	1-5/8	1-3/4
XS	2-1/16	2-1/8	2-3/8	2-3/8	2-5/8	2-5/8	3-1/8	3-1/8	3-5/8
Y	2	2-1/4	2-5/8	2-5/8	4	4	4-13/16	4-13/16	5-1/2
YA	7/16	15/32	19/32	19/32	11/16	11/16	13/16	13/16	27/32
ZB	7-5/64	8-13/64	9-7/32	9-13/32	10-13/32	10-13/32	11-15/16	11-15/16	13-3/4

FOOT MOUNT

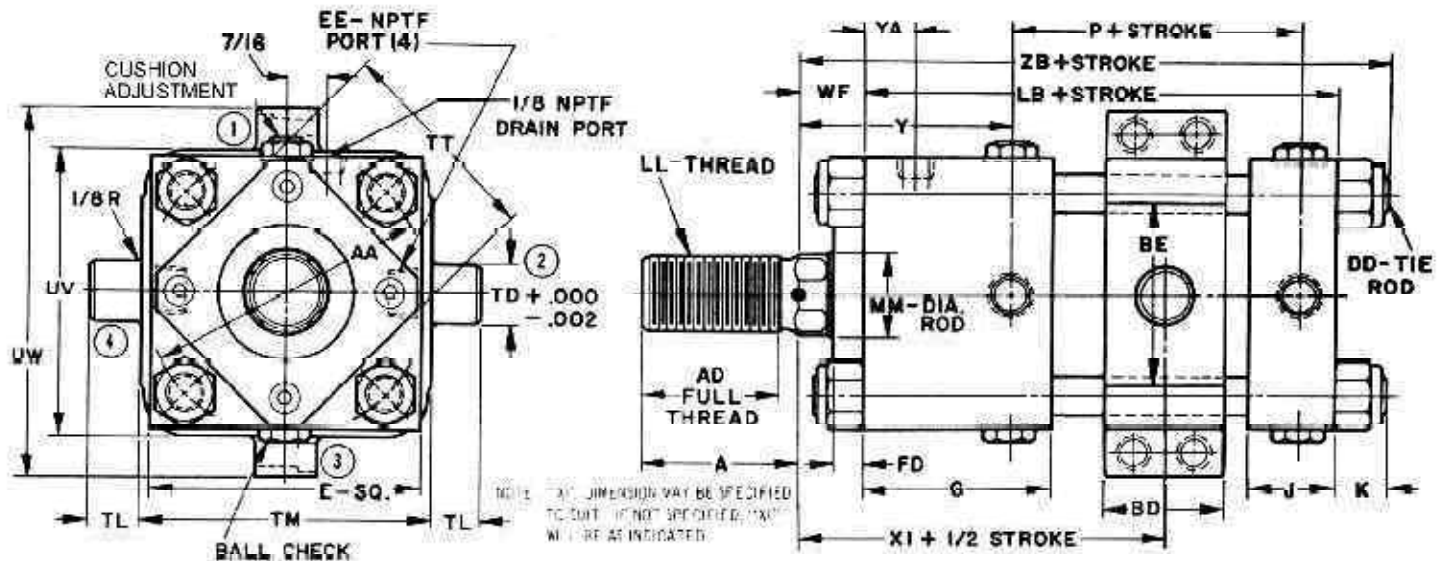
HD1-C LOW PSI HYDRAULIC CYLINDERS



BORE	1-1/2	2	2-1/2	3-1/4	4	4-1/2	5	6	8
A	2	2-1/8	2-5/8	2-5/8	3-1/8	3-1/8	4-1/8	4-1/8	5-5/8
AA	2.36	3.19	3.71	4.78	5.49	6.19	6.62	7.73	10.25
AD	1-3/4	1-3/4	2-3/8	2-3/8	2-3/4	2-3/4	3-3/4	3-3/4	5-1/8
CB	1	1	1-1/2	1-1/2	2	2	2-1/2	2-1/2	3
CD	.626	.626	.751	.751	1.001	1.001	1.501	1.501	2.001
DD	3/8-24	3/16-20	1/2-20	5/8-13	5/8-13	5/8-13	3/4-16	3/4-16	1-1/8-12
E	2-1/2	3	3-1/2	4-1/2	5	5-1/2	6	7	9-1/4
EE	1/2	1/2	1/2	1/2	3/4	3/4	1	1	1-1/4
FD	3/8	3/8	3/8	1/2	1/2	1/2	1/2	1/2	1/2
G	2-5/8	2-13/16	3-3/16	3-9/16	3-7/16	3-7/16	4	4	4-3/4
J	1-7/16	1-7/16	1-7/16	1-7/16	1-5/8	1-5/8	1-5/8	1-5/8	2
K	33/64	33/64	21/32	27/32	27/32	27/32	15/16	15/16	1-1/4
L	1-5/16	1-1/4	1-3/8	1-1/2	1-3/4	1-3/4	2-1/8	2-1/8	3
LB	6-3/8	6-9/16	7-7/16	7-7/16	8-3/16	8-3/16	9-3/8	9-3/8	10-3/4
LL	3/4-10 UNC-3	1-8 UNC-3	1-3/4-12 UNF-3	1-1/4-12 UNF-3	1-1/2-12 UNF-3	1-1/2-12 UNF-3	2-1/2 UN-3	2-1/2 UN-3	2-3/4-12 UN-3
M	3/4	3/4	7/8	7/8	1-1/8	1-1/8	1-1/2	1-1/2	2
MM	7/8	1-1/8	1-3/8	1-3/8	1-5/8	1-5/8	2-1/8	2-1/8	3
MR	1-1/2	1-1/2	1-3/4	1-3/4	2-1/4	2-1/4	3	3	4
P	3-13/16	3-7/8	4-3/8	4-3/8	4-3/4	4-3/4	5-3/8	5-3/8	6
TT	2	2-1/4	2-3/4	3-1/2	4	4	4-1/2	4-1/2	7
WF	1-1/16	1-1/8	1-1/8	1-1/8	1-3/8	1-3/8	1-5/8	1-5/8	1-3/4
XC	8-3/4	8-15/16	9-15/16	10-1/16	11-5/16	11-5/16	13-1/8	13-1/8	15-1/2
Y	3	3-1/4	3-5/8	3-5/8	4	4	4-13/16	4-13/16	5-1/2
YA	7-1/16	15-3/32	19-3/32	19-3/32	11-1/16	11-1/16	13-1/16	13-1/16	27-3/32
ZC	9-1/2	9-11/16	10-13/16	10-15/16	12-7/16	12-7/16	14-5/8	14-5/8	17-1/2

CLEVIS MOUNT

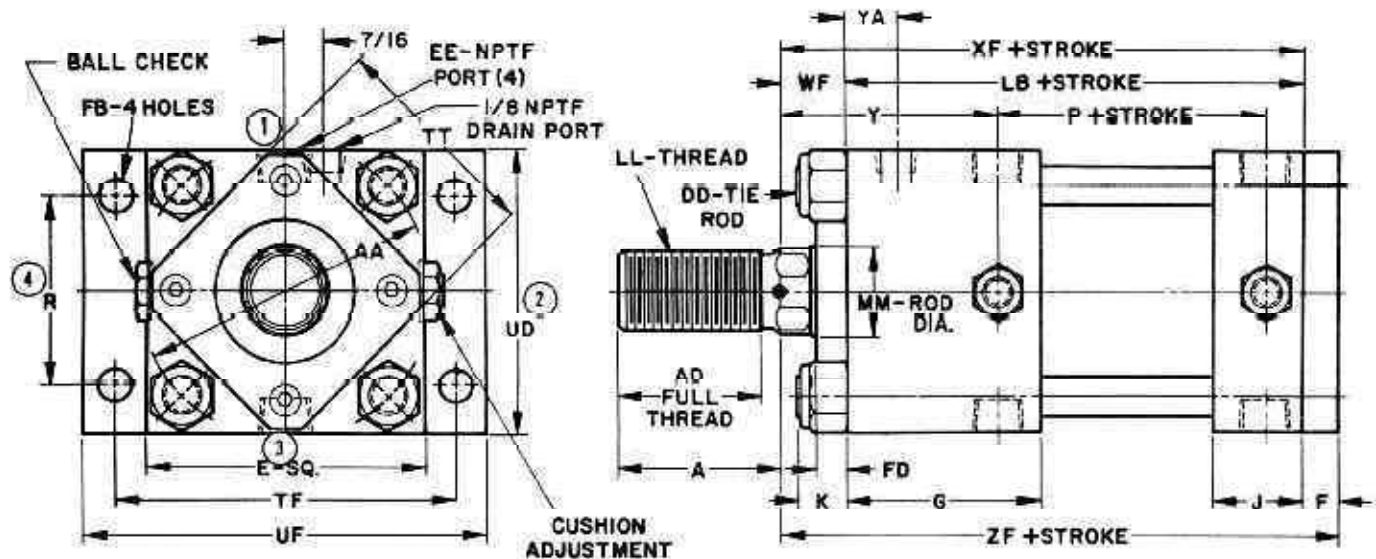
HD1-T LOW PSI HYDRAULIC CYLINDERS



BORE	1-1/2	2	2-1/2	3-1/4	4	4-1/2	5	6	8
A	2	2-1/8	2-5/8	2-5/8	3-1/8	3-1/8	4-1/8	4-1/8	5-5/8
AA	2.56	3.19	3.7	4.78	5.48	6.19	6.62	7.78	10.25
AD	1-3/4	1-3/4	2-3/8	2-3/8	2-3/4	2-3/4	3-3/4	3-3/4	5-1/8
BD	1-11/16	1-11/16	1-11/16	1-11/16	2-1/16	2-1/16	2-7/16	2-7/16	2-15/16
BE	-	-	-	2-3/4	3-1/8	3-3/4	4-1/4	4-1/4	4-1/2
UV	4/8 .21	1/16 .20	1/2 .20	5/8 .18	5/8 .18	5/8 .18	3/4 .16	3/4 .16	1-1/8 .12
E	2-1/2	3	3-1/2	4-1/2	5	5-1/2	6	7	9-1/4
EE	1/2	1/2	1/2	1/2	3/4	3/4	1	1	1-1/4
FD	3/4	3/8	3/8	1/2	1/2	1/2	1/2	1/2	1/2
G	2-5/8	2-13/16	3-3/16	3-3/16	3-7/16	3-7/16	4	4	4-3/4
J	1-7/16	1-7/16	1-7/16	1-7/16	1-5/8	1-5/8	1-5/8	1-5/8	2
K	22/64	22/64	21/32	23/32	23/32	23/32	15/16	13/16	1-1/4
LB	6-3/8	6-9/16	7-7/16	7-7/16	8-3/16	8-3/16	9-3/8	9-3/8	10-3/4
LL	3/4-10 UNF-3	1-8 UNF-3	1-1/4-12 UNF-3	1-1/4-12 UNF-3	1-1/2-12 UNF-3	1-1/2-12 UNF-3	2-12 UN-1	2-12 UN-2	2-3/4-12 UN-1
MM	7/8	1-1/8	1-3/8	1-3/8	1-5/8	1-5/8	2-1/8	2-1/8	3
P	3-13/16	3-7/8	4-3/8	4-3/8	4-1/4	4-3/4	5-3/8	5-3/8	6
TD	.999	.999	1.374	1.374	1.499	1.499	1.999	1.999	2.499
TL	1	1	1	1	1-1/8	1-1/8	1-3/8	1-1/8	1-1/4
TM	2-1/2	3	3-1/2	4-1/2	5-3/4	5-1/4	7-1/4	8-1/4	11-1/2
TT	2	2-1/4	2-3/4	3-1/2	4	4	4-1/2	4-1/2	7
UV	2-3/4	3-1/4	3-3/4	4-1/2	5-1/2	6-1/4	7-1/4	8-1/4	10-1/2
UW	9-7/16	5-1/8	5-5/8	6-1/2	7-1/2	8-3/4	9-3/4	10-3/4	13-1/2
WF	1-1/16	1-1/8	1-1/8	1-1/8	1-3/8	1-3/8	1-5/8	1-5/8	1-3/4
X1	4-27/32	5-1/8	5-3/4	5-3/4	6-3/8	6-3/8	7-1/2	7-1/2	8-1/2
Y	3	3-1/4	3-5/8	3-5/8	4	4	4-15/16	4-13/16	5-1/2
YA	7-1/16	15-3/32	19-3/32	19-3/32	11-1/16	11-1/16	13-1/16	13-1/16	27-3/32
ZB	7-61/64	8-13/64	9-7/32	9-13/32	10-13/32	10-13/32	11-15/16	11-15/16	13-3/4

TRUNNION MOUNT

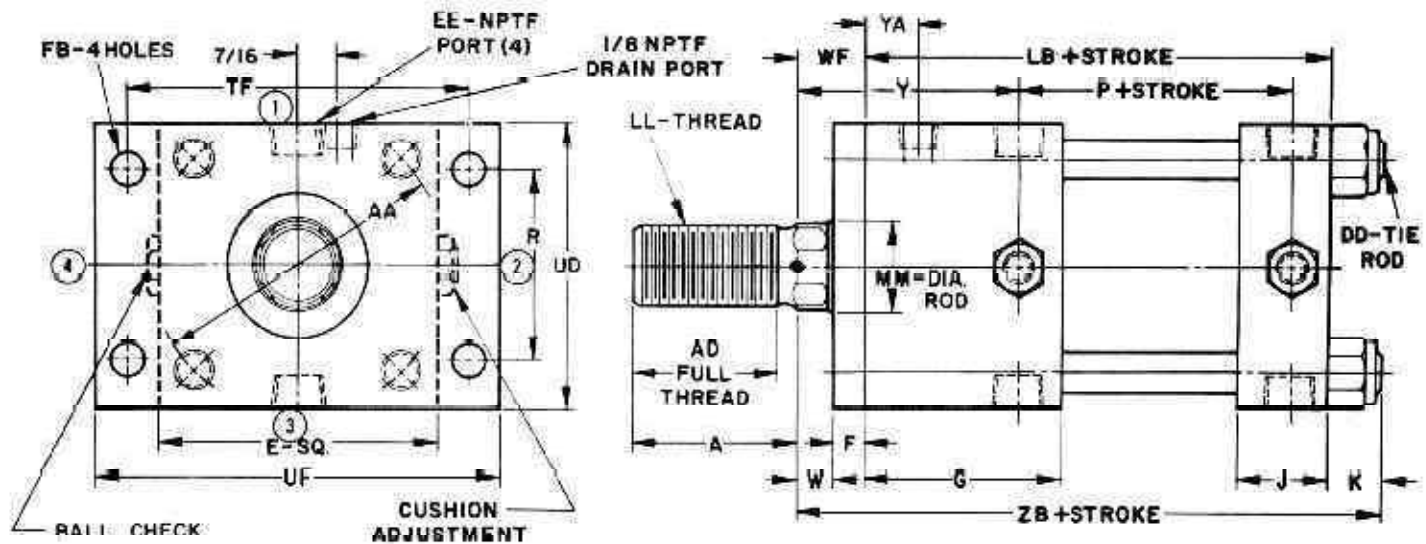
HD1-B LOW PSI HYDRAULIC CYLINDERS



BORE	1-1/2	2	2-1/2	3-1/4	4	4-1/2	5	6	8
A	2	2-1/8	2-5/8	2-5/8	3-1/8	3-1/8	4-1/8	4-1/8	5-5/8
AA	2.56	3.19	3.71	4.70	5.40	6.10	6.62	7.70	10.25
AD	1-3/4	1-3/4	2-3/8	2-3/8	2-3/4	2-3/4	3-3/4	3-3/4	5-1/8
DD	3/8-24	7/16-20	1/2-16	5/8-18	5/8-11	5/8-10	3/4-16	3/4-10	1-1/8-12
E	2-1/2	3	3-1/2	4-1/2	5	5-1/2	6	7	9-1/4
EF	1/2	1/2	1/2	1/2	3/4	3/4	1	1	1-1/4
F	1/2	1/2	5/8	5/8	5/8	5/8	3/4	3/4	1
FR	13/32	13/32	17/32	17/32	21/32	21/32	25/32	25/32	1-1/32
FD	3/8	3/8	3/8	1/2	1/2	1/2	1/2	1/2	1/2
G	2-5/8	2-13/16	3-3/16	3-3/16	3-7/16	3-7/16	4	4	4-3/4
J	1-7/16	1-7/16	1-7/16	1-7/16	1-5/8	1-5/8	1-5/8	1-5/8	2
K	33/64	33/64	21/32	27/32	27/32	27/32	15/16	15/16	1-1/4
LB	6-3/8	6-9/16	7-7/16	7-7/16	8-3/16	8-3/16	9-3/8	9-3/8	10-3/4
LL	3/4-10 UNC-3	1-8 UNC-3	1-1/4-12 UNF-3	1-1/4-12 UNF-3	1-1/2-12 UNF-3	1-1/2-12 UNF-3	2-12 UN-3	2-12 UN-3	2-1/4-17 UN-3
MM	7/8	1-1/8	1-3/8	1-3/8	1-5/8	1-5/8	2-1/8	2-1/8	3
P	3-13/16	3-7/8	4-3/8	4-3/8	4-3/4	4-3/4	5-3/8	5-3/8	6
R	1-1/2	2	2-1/2	3	3-1/2	4	4-1/2	5-1/2	7
TF	3-1/2	4	4-3/4	5-1/2	6-1/4	7	7-1/2	8-1/2	11-1/4
TT	2	2-1/4	2-3/4	3-1/2	4	4	4-1/2	4-1/2	7
UD	2-1/2	3	3-1/2	4-1/2	5	5-1/2	6	7	10
UF	4-1/4	4-3/4	5-3/4	6-1/2	7-1/2	8-1/4	9	10	13-1/4
WF	1-1/16	1-1/8	1-1/8	1-1/8	1-3/8	1-3/8	1-5/8	1-5/8	1-3/4
XF	7-7/16	7-11/16	8-9/16	8-9/16	9-9/16	9-9/16	11	11	12-1/2
Y	3	3-1/4	3-5/8	3-5/8	4	4	4-13/16	4-13/16	5-1/2
YA	7/16	35/32	19/12	19/32	11/16	11/16	13/16	13/16	27/32
ZF	7-15/16	8-1/16	9-3/16	9-3/16	10-3/16	10-3/16	11-3/4	11-3/4	13-1/2

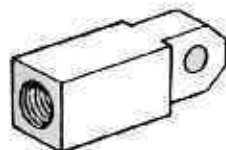
CAP END FLANGE MOUNT

HD1-R LOW PSI HYDRAULIC CYLINDERS

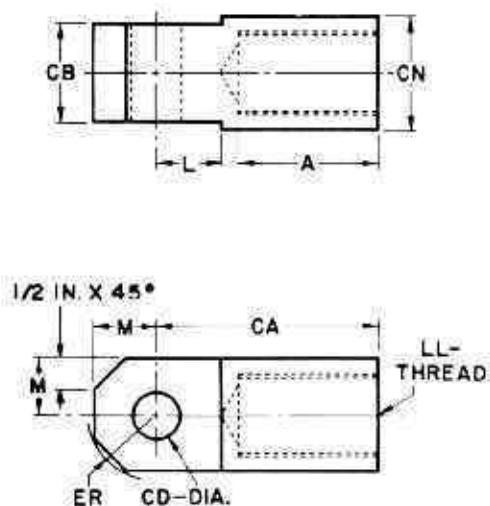


BORE	1-1/2	2	2-1/2	3-1/4	4	4-1/2	5	6	8
A	2	2-5/8	2-5/8	2-5/8	3-1/8	3-1/8	4-1/8	4-1/8	5-5/8
AA	2.56	3.19	3.71	4.78	5.49	6.19	6.62	7.38	10.96
AD	1-3/4	1-3/4	2-1/8	2-1/8	2-3/4	2-3/4	3-3/4	3-3/4	5-1/8
DD	3/8-24	7/16-20	1/2-20	5/8-18	5/8-18	5/8-18	3/4-16	3/4-16	1-1/8-12
E	2-1/2	3	3-1/2	4-1/2	5	5-1/2	6	7	9-1/4
EE	1/2	1/2	1/2	1/2	3/4	3/4	1	1	1-1/4
F	1/2	1/2	5/8	5/8	5/8	5/8	3/4	3/4	1
FB	13/32	13/32	17/32	17/32	21/32	21/32	25/32	25/32	1-1/32
G	2-5/8	2-13/16	3-1/16	3-3/16	3-7/16	3-7/16	4	4	4-3/4
J	1-7/16	1-7/16	1-7/16	1-7/16	1-5/8	1-5/8	1-5/8	1-5/8	2
K	13/64	13/64	71/32	71/32	77/32	77/32	15/16	15/16	1-1/4
LB	6-1/8	6-5/16	7-1/16	7-1/16	8-3/16	8-3/16	9-1/8	9-3/8	10-3/4
LL	3/4-13 UNC-3	1-8 UNC-3	1-1/4-12 UNF-3	1-1/4-12 UNF-3	1-1/2-12 UNF-3	1-1/2-12 UNF-3	2-12 UN-3	2-12 UN-3	2-3/4-12 UN-3
MM	1/8	1-1/8	1-5/8	1-3/4	1-5/8	1-5/8	2-1/8	2-1/8	3
P	2-13/16	3-7/8	4-3/8	4-3/8	4-3/4	4-3/4	5-3/8	5-3/8	6
R	1-1/2	2	2-1/2	3	3-1/2	4	4-1/2	5-1/2	7
TF	3-1/2	4	4-3/4	5-1/2	6-1/4	7	7-1/2	8-1/2	11-1/4
UD	2-1/2	3	3-1/2	4-1/2	5	5-1/2	6	7	10
UF	4-1/4	4-3/4	5-3/4	6-1/2	7-1/2	8-1/4	9	10	13-1/4
W	9/16	5/8	1/2	1/2	3/4	3/4	7/8	7/8	3/4
WF	1-1/16	1-1/4	1-1/8	1-1/8	1-3/8	1-3/8	1-5/8	1-5/8	1-3/4
Y	3	3-1/4	3-5/8	3-5/8	4	4	4-13/16	4-13/16	5-1/2
YA	7-1/16	15/32	19/32	19/32	11-1/16	11-1/16	13-1/16	13-1/16	27/32
ZB	7-61/64	8-11/64	9-7/32	9-13/32	10-13/32	10-13/32	11-15/16	11-15/16	13-3/4

ROD END FLANGE MOUNT

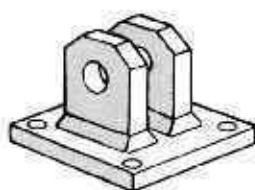


FEMALE EYE

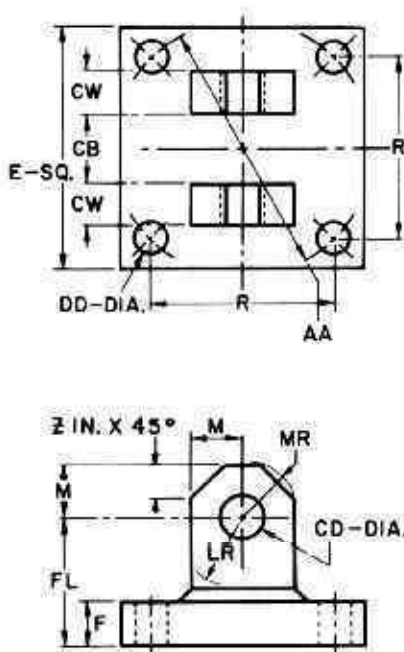


FEMALE EYE

BORE	1 1/2	2	2 1/2 - 3 1/4	4 - 4 1/2	5 - 6	8
PART NO.	F-100	F-101	F-102	F-103	F-104	F-105
LL	3/4-10	1-8	1 1/4-12	1 1/2-12	2-12	2 3/4-12
A	1 5/16	1 5/16	1 5/8	1 7/8	2 5/8	3 1/2
CA	2 1/4	2 5/8	3	3 1/2	4 5/8	6 1/2
CB	1	1	1 1/2	2	2 1/2	3
CD	5/8	5/8	3/4	1	1 1/2	2
CN	1 1/8	1 1/2	1 3/4	2 1/4	3	4
ER	.790	.790	.953	1.286	1.805	2.500
L	7/8	7/8	1 1/16	1 3/8	1 3/4	2 1/2
M	3/4	3/4	7/8	1 1/8	1 1/2	2



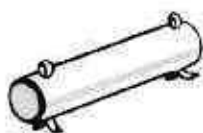
CLEVIS BRACKET



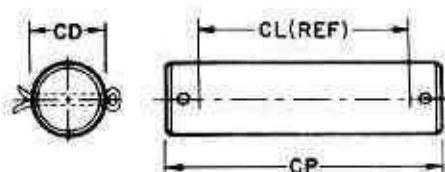
CLEVIS BRACKET

BORE	1 1/2 - 2	2 1/2 - 3 1/4	4 - 4 1/2	5 - 6	8
PART NO.	F-201	F-202	F-203	F-204	F-205
AA	3.71	4.78	6.19	7.78	10.25
CB	1	1 1/2	2	2 1/2	3
CD	5/8	3/4	1	1 1/2	2
CW	5/8	3/4	1	1 1/4	1 1/2
DD	15/32	11/16	11/16	13/16	1 3/16
E	3 1/2	4 1/2	5 1/2	7	9 1/4
F	5/8	3/4	3/4	1	1
FL	1 7/8	2 1/8	2 1/2	3 1/4	4 1/8
LR	1 1/16	1 1/8	1 7/16	1 7/8	2 5/8
M	3/4	7/8	1 1/8	1 1/2	2
MR	7.90	9.53	1.286	1.679	2.359
R	2.62	3.38	4.38	5.50	7.25
Z	1/2	1/2	1/2	3/4	3/4

PIVOT PIN



PIVOT PIN



BORE	1 1/2 - 2	2 1/2 - 3 1/4	4 - 4 1/2	5 - 6	8
PART NO.	F-301	F-302	F-303	F-304	F-305
CD	5/8	3/4	1	1 1/2	2
CL	2 1/4	3	4	5	6
CP	2 3/4	3 1/2	4 1/2	5 9/16	6 9/16