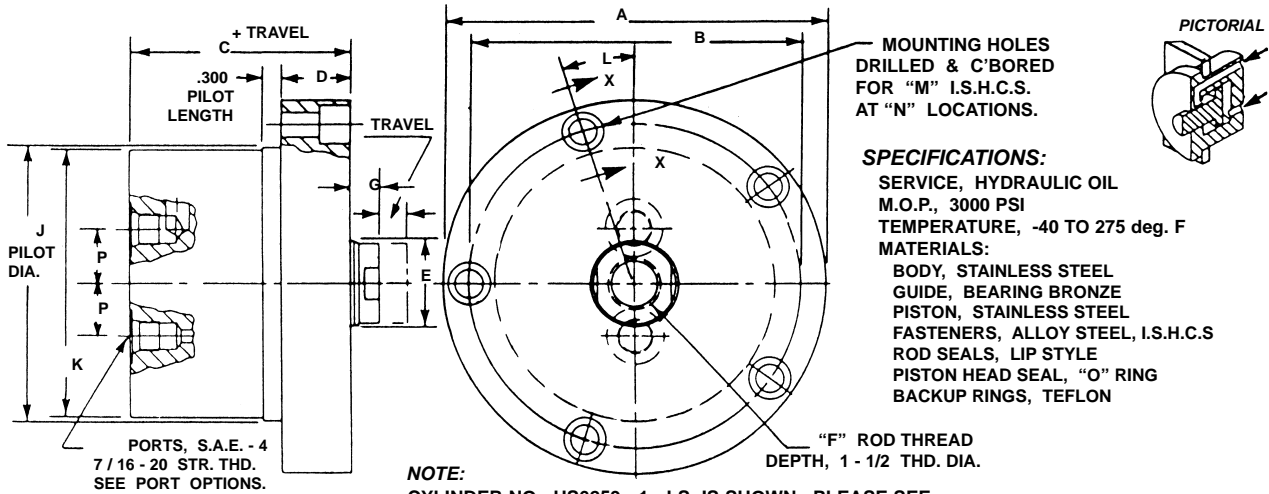


SHORT STROKE HYDRAULIC CYLINDERS - HI-ENERGY® SERIES 3000-LS-EP-FL
 Double Acting-Single Ended Pistons-End Ported-Flange Mounted



SPECIFICATIONS:
 SERVICE, HYDRAULIC OIL
 M.O.P., 3000 PSI
 TEMPERATURE, -40 TO 275 deg. F
MATERIALS:
 BODY, STAINLESS STEEL
 GUIDE, BEARING BRONZE
 PISTON, STAINLESS STEEL
 FASTENERS, ALLOY STEEL, I.S.H.C.S.
 ROD SEALS, LIP STYLE
 PISTON HEAD SEAL, "O" RING
 BACKUP RINGS, TEFLON

NOTE:
 CYLINDER NO. HS6259 - 1 - LS IS SHOWN. PLEASE SEE
 TABULATED DATA FOR BOLT PATTERNS ON OTHER SIZES.

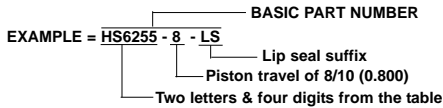
BASIC PART NUMBER	±.010 A	±.005 B	NOM. C	±.010 D	NOM. E	THD. F	NOM. G	W.F. H	±.001 J	NOM. K	DEG. L	THD. M	NO. N	±.005 P	BORE DIA. (in.)	EXTEND AREA (sq. in.)	RETR. AREA (sq. in.)
HS6255-()-LS	3.500	2.875	2.875	0.875	0.625	3/8-24	0.375	0.500	2.240	2.220	45	5/16-24	4	0.450	1.125	0.99	0.68
HS6256-()-LS	3.750	3.125	2.875	0.875	0.750	3/8-24	0.375	0.625	2.490	2.470	45	5/16-24	4	0.438	1.375	1.48	1.04
HS6257-()-LS	4.500	3.750	3.000	0.938	0.875	1/2-20	0.375	0.750	2.990	2.970	22.5	5/16-24	4	0.510	1.750	2.40	1.80
HS6258-()-LS	5.000	4.188	3.125	1.000	1.125	5/8-18	0.407	0.938	3.490	3.470	22.5	3/8-24	4	0.640	2.125	3.54	2.55
HS6259-()-LS	5.500	4.750	3.125	1.000	1.250	3/4-16	0.407	1.063	3.990	3.970	18	3/8-24	5	0.780	2.500	4.90	3.68
HS6260-()-LS	6.000	5.125	3.375	1.125	1.375	3/4-16	0.407	1.125	4.490	4.470	18	7/16-20	5	0.880	2.875	6.49	5.00
HS6261-()-LS	6.750	5.875	3.375	1.125	1.625	1-14	0.438	1.375	4.990	4.970	15	7/16-20	6	1.000	3.375	8.94	6.87
HS6262-()-LS	7.500	6.500	3.375	1.125	1.750	1-14	0.438	1.500	5.490	5.470	15	1/2-20	6	1.040	3.750	11.04	8.63
HS6263-()-LS	8.000	7.000	3.375	1.125	2.125	1-1/4-12	0.500	1.750	5.990	5.970	12.85	1/2-20	7	1.250	4.250	14.18	10.63

Nom. Force (lbs) = Pressure (psi) times Area (sq.in.)

ORDERING INFORMATION:

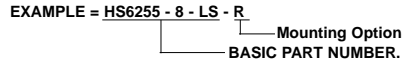
HOW TO ORDER BASIC CYLINDERS:

A BASIC PART NUMBER consists of two letters & four digits followed by a dash number to indicate piston travel in increments of 1/10 (0.100) inch followed by the suffix -LS. Travel to -40 (4.000) is standard.



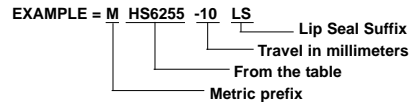
HOW TO ORDER CYLINDERS WITH OPTIONS:

Add options to the BASIC PART NUMBER as suffixes in any order.



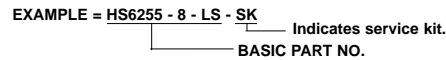
HOW TO ORDER METRIC VERSIONS

A BASIC PART NUMBER FOR METRIC VERSIONS consists of two letters & four digits from the table with a prefix "M" and a suffix to indicate piston travel in millimeters followed by the suffix -LS. Please see inside rear cover for travel and thread conversion.



HOW TO ORDER SERVICE KITS

Specify the COMPLETE PART NO. followed by the suffix -SK.



INTERNATIONAL PORT OPTIONS

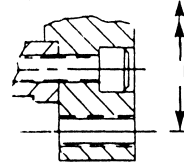
U.S.A. 1/8 NPTF port.
 Tapered thread sealing.
 Add suffix -1/8 NPTF to the BASIC PART NO.

BRITISH 1/8- 28 BSPT port.
 Tapered thread sealing.
 Add suffix -BSPT to the BASIC PART NO.

BRITISH 1/8-28 BSPP port.
 Str. Thd. with "O" ring seal.
 Add suffix -BSPP to the BASIC PART NO.

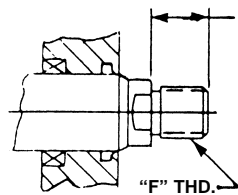
METRIC M10 X 1 port per Spec. ISO-6149 - Str. Thd. with captive "O" ring seal.
 Add suffix -M10 to the BASIC PART NO.

NOTE: Optional ports are furnished at no added cost.



MOUNTING OPTION:

"M" Internally threaded holes at "N" locations in the flange.
 Add suffix -R to the BASIC PART NO.
 There is no added cost.
 Intended as an option where attachment from the rear is preferred.



1-1/2 THD. DIA.

ROD END OPTION:

Rod end with external thread and wrench flats.
 Add suffix -ETW to the BASIC PART NUMBER.
 Add 8% to the BASE PRICE.

Note:

DIMENSIONS ARE NOMINAL IN U.S. CUSTOMARY UNITS. METRIC VERSIONS ARE DIMENSIONALLY EQUIVALENT EXCEPT FOR CONVERSION IN MOUNTING DETAILS, WHERE FASTENERS, THREADS, CLEARANCE HOLES & COUNTER-BORES ARE TO METRIC STANDARDS. PLEASE SEE INSIDE REAR COVER FOR A TABLE OF U.S. CUSTOMARY TO METRIC FASTENER CONVERSION. THERE IS NO ADDED COST FOR THIS METRIC MODIFICATION. ALL INQUIRIES REGARDING MODIFICATIONS TO STANDARD CYLINDERS ARE WELCOME.

