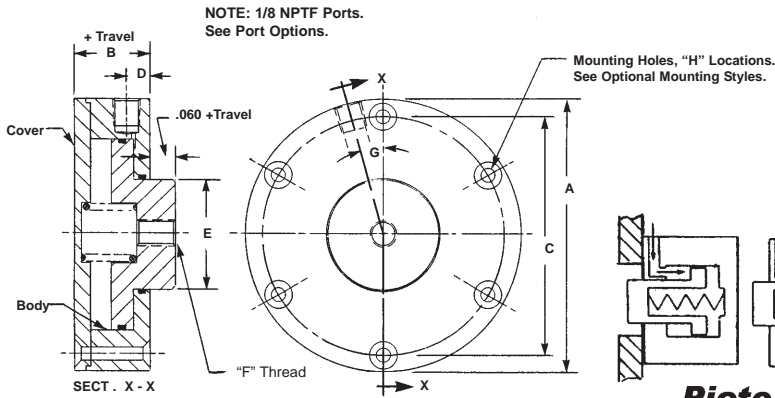


SHORT STROKE PNEUMATIC CYLINDERS - LO-PROFILE® SERIES B-SP-FM

Single Acting-Spring Extending-Single Ended Pistons-Side Ported-Either Face Mounted



Pictorial

NOTES:

Dimensions are nominal in U.S. CUSTOMARY specifications.

METRIC CYLINDERS are dimensionally equivalent with clearance holes, counterbores, threads & fasteners to metric specifications. See inside back cover for fastener conversion table. There is no added cost for METRIC CYLINDERS.

An air/oil mist unit is recommended for internal lubrication. Where such units are not practical, SERVICE KITS including seals & factory approved lube are available.

Cylinders may also be used in low pressure hydraulic and vacuum service.

Wrench flats may not be necessary if cylinders can be pressurized in the retracted or extended position while tightening the rod joint.

Inquiries regarding modifications to BASIC CYLINDERS are always welcome.

BASIC PART No.	O.D. A	BASIC BODY LENGTH B	B.C C	PORT OFFSET D	ROD DIA E	Thread F	DEG G	H	WR. Flats J	LENGTH K	WIDTH M	PISTON DIA. (IN.)	NET PISTON AREA (SQ.IN.)
S1870(-)	3.000	0.681	2.500	0.297	1.031	5/16-24	18	5	0.750	0.581	0.110	1.800	1.710
S18705(-)	3.500	0.775	3.000	0.324	1.031	5/16-24	15	6	0.750	0.675	0.149	2.300	3.320
S1871(-)	4.000	0.775	3.500	0.324	1.600	3/8-24	15	6	1.000	0.675	0.149	2.800	4.147
S18715(-)	4.500	0.900	4.000	0.375	1.600	3/8-24	11-1/4	8	1.000	0.800	0.172	3.300	6.542
S1872(-)	5.000	0.900	4.500	0.375	1.850	7/16-20	11-1/4	8	1.250	0.800	0.172	3.800	8.653
S18725(-)	5.500	0.900	5.000	0.375	1.850	7/16-20	11-1/4	8	1.250	0.800	0.172	4.300	11.834
S1873(-)	6.000	0.900	5.500	0.375	2.600	1/2-20	11-1/4	8	2.000	0.800	0.172	4.800	12.787

SPECIFICATIONS:

SERVICE, PLANT AIR
M.O.P., 150 PSI

TEMPERATURE, -40°F to +250°F

MATERIALS:

BODY & COVER, ALUMINUM ALLOY
PISTON, STAINLESS STEEL
SPRING, MUSIC WIRE
SEALS, BUNA "N" O RINGS
FASTENERS, ALLOY STEEL

OPTIONAL PORTS



U.S.A. 1/16 NPTF Ports
Tapered Thread Sealing
Add suffix -1/16 NPTF to the
BASIC PART NUMBER.
There is no added cost.

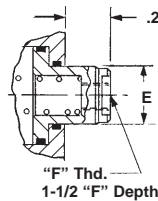


U.S.A. 10-32 Threaded Ports.
Straight Thread - Flat Gasket Sealing.
Add suffix -1032 to the BASIC
PART NUMBER.
There is no added cost.

INTERNATIONAL PORTS

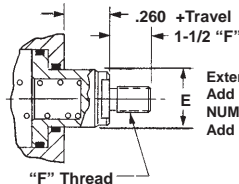
The following International Ports are available with minor modification to the product. Please consult the factory.

U.S.A., S.A.E. -4
British, 1/8 - 28 BSPT
British, 1/8 - 28 BSPP
Metric, M10x1, ISO 6149



OPTIONAL ROD ENDS

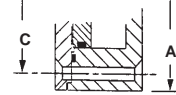
Internal Threads with Wrench Flats.
Add suffix -ITW to the BASIC PART NUMBER.
Add 5% to the BASE PRICE.



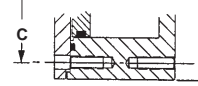
External Threads with Wrench Flats.
Add suffix -ETW to the BASIC PART NUMBER.
Add 8% to the BASE PRICE.

Spring force for BASIC CYLINDERS is sufficient to fully extend pistons. Higher spring force may be required where a load is attached to the rod. Please consult the factory with your force requirements.

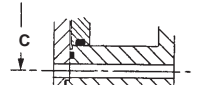
OPTIONAL MOUNTING STYLES



Clearance holes with 82° C'sinks on both faces
For 10-32 Flat Head Screws.
This mounting style is supplied for -1 thru -5
unless otherwise indicated.



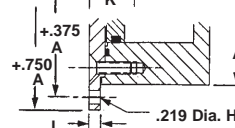
10-32 internally threaded holes on both faces.
This mounting style is supplied for -6 thru -20
unless otherwise indicated.



Thru clearance holes for 10-32 screws.
Add suffix -CL to the BASIC PART NO.
There is no added cost.



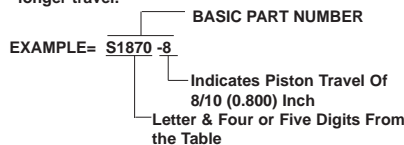
Thru clearance holes with C-bores on the body
side for 10-32 I.S.H.C.S.
Add suffix -CBB to the BASIC PART NO.
There is no added cost.



This cover is larger for flange mounting.
Clearance holes are for 10-32 screws at angular
locations shown above.
Add suffix -FL to the BASIC PART NO.
Add 10% to the BASE PRICE.

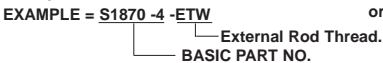
HOW TO ORDER BASIC CYLINDERS

A BASIC PART NUMBER consists of a letter & four or five digits, followed by a dash number to indicate piston travel in increments of 1/10 (0.100) Inch. Travel to -10 (1.000) inches is standard. Please consult the Factory for longer travel.



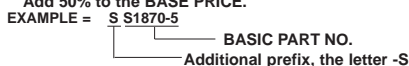
HOW TO ORDER CYLINDERS WITH OPTIONS

Add options to the BASIC PART NO. as suffixes in any order.



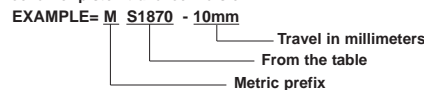
HOW TO ORDER ALL STAINLESS STEEL CYLINDERS

Add the letter -S as a prefix to the BASIC PART NO. Add 50% to the BASE PRICE.



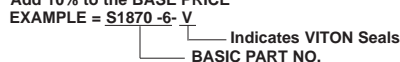
HOW TO ORDER METRIC CYLINDERS

A BASIC PART NO. FOR METRIC CYLINDERS consists of a four or five digit number from the table with a prefix "M" and a suffix to indicate travel in millimeters. See inside rear cover for piston travel conversion.



HOW TO ORDER CYLINDERS WITH VITON SEALS

Add suffix -V to the BASIC PART NO. Add 10% to the BASE PRICE



HOW TO ORDER BUNA "N" SERVICE KITS

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



HOW TO ORDER VITON SERVICE KITS

Specify the BASIC PART NO. followed by suffix -VSK.

