

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

Double Acting-Double Ended Pistons with Large Hubs-Side Ported-Either Face Mounted

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.

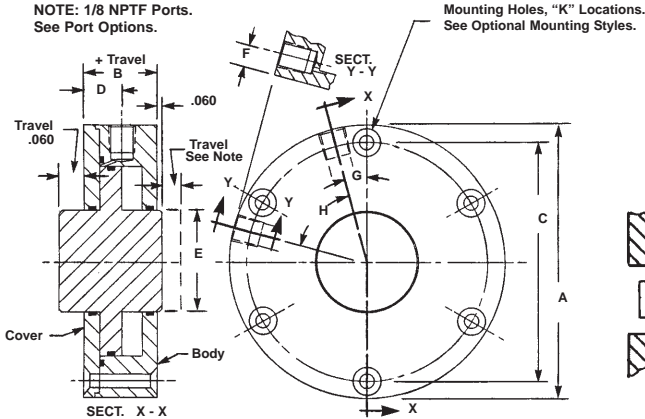
An air/oil mist unit is recommended for internal lubrication. Where such units are not practical, SERVICE KITS including seals & factory approved lube are available.

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.

NOTE: 1/8 NPTF Ports. See Port Options.

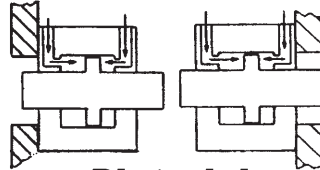


SPECIFICATIONS:

SERVICE, PLANT AIR
M.O.P., 150 PSI
TEMPERATURE, -40°F to +250°F

MATERIALS:

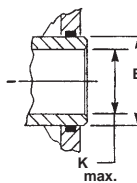
BODY & COVER, ALUMINUM ALLOY
PISTON, ALUMINUM ALLOY
SEALS, BUNA "N" O RINGS
FASTENERS, ALLOY STEEL



Pictorial

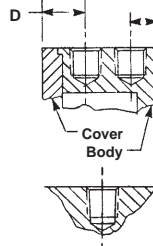
BASIC PART No.	O.D. A	BASIC BODY LENGTH B	B.C. C	PORT OFFSET D	ROD DIA. E	PORT OFFSET F	DEGREES G	DEG. H	J	HOLE K	LENGTH L	WIDTH M	PISTON DIA. (IN.)	NET PISTON AREA (SQ.IN.)
1085(-)	3.000	0.681	2.500	0.485	1.031	0.297	18	72	5	0.750	0.581	0.110	1.800	1.710
10855(-)	3.500	0.775	3.000	0.551	1.031	0.324	15	60	6	0.750	0.675	0.149	2.300	3.320
1084(-)	4.000	0.775	3.500	0.551	1.600	0.324	15	60	6	1.125	0.675	0.149	2.800	4.147
10845(-)	4.500	0.900	4.000	0.625	1.600	0.375	11-1/4	45	8	1.125	0.800	0.172	3.300	6.542
1083(-)	5.000	0.900	4.500	0.625	1.850	0.375	11-1/4	45	8	1.375	0.800	0.172	3.800	8.653
10835(-)	5.500	0.900	5.000	0.625	1.850	0.375	11-1/4	45	8	1.375	0.800	0.172	4.300	11.834
1082(-)	6.000	0.900	5.500	0.625	2.600	0.375	11-1/4	45	8	2.000	0.800	0.172	4.800	12.787

OPTIONAL PISTON MODIFICATION



Offered with large thru holes. Add suffix **-TH** to the BASIC PART NUMBER and state nominal hole diameter with tolerance. Add 5% to the BASE PRICE for any hole diameter with a tolerance to plus or minus 0.005 inch. If closer tolerance is required, please consult the Factory. Also, please consult the factory if counterbores, special threads or other special treatment is required.

OPTIONAL PORTS



Ports May be **IN-LINE** for Travels From -7 Thru -20. Add suffix **-IL** to the BASIC PART NUMBER. There is no added cost.

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

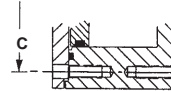
The following International Ports are available with minor modification to the product. Please consult the factory.

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

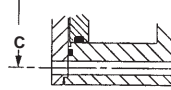
OPTIONAL MOUNTING STYLES



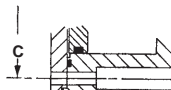
Clearance holes with 82° C'sinks on both faces for 10-32 Flat Head Screws. This mounting style is supplied for -1 thru -5 unless otherwise indicated.



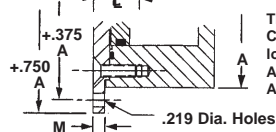
10-32 internally threaded holes on both faces. This mounting style is supplied for -6 thru -20 unless otherwise indicated.



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



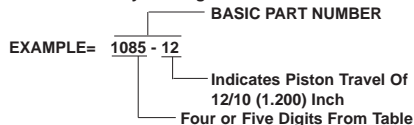
Thru clearance holes with C'bores on the body side for 10-32 I.S.H.C.S. Add suffix **-CBB** to the BASIC PART NO. There is no added cost.



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.

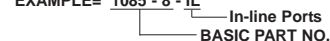
HOW TO ORDER BASIC CYLINDERS

A BASIC PART NUMBER consists of a four or five digit number from the table followed by a dash number to indicate piston travel in increments of 1/10 (0.100) Inch. Travel to -20 (2.000) inches is standard. Please consult the Factory for longer travel.



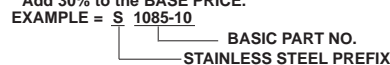
HOW TO ORDER CYLINDERS WITH OPTIONS

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



HOW TO ORDER CYLINDERS WITH STAINLESS STEEL PISTONS.

Add the letter **-S** as a prefix to the BASIC PART NO. Add 30% to the BASE PRICE.



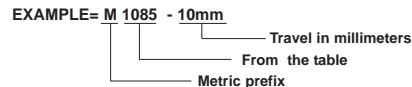
HOW TO ORDER ALL STAINLESS STEEL CYLINDERS

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



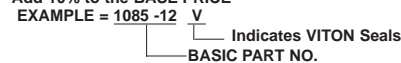
HOW TO ORDER METRIC CYLINDERS

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



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**.

