# FABCO-AIR air cylinders

DP-type double acting / pivot mount or double-end mount

- Stainless steel rod, standard.
- Simple, reliable design.
- · Requires air pressure to extend and retract rod.
- Extend force exceeds retract force (smaller effective area on rod side of piston).
- Exclusive Fabco reversible piston.
- Specify option M (internal magnet) to operate sensors.
  Wearstrip standard: 5 inches or more of stroke (optional on
- shorter strokes. N/A on model 8).
- Options: B, F, J, K, L, M, N, P, R, T, W and U.
- Versatile mounting, pivot, nose, double-end.
- Available accessories, pivot bracket, mounting nut, foot mount and rod clevis, see pages 18 & 19.

For product configuration utility, 3D CAD viewer, and 3D CAD Model downloads, Visit www.fabco-air.com.



-	piston area	
model	volume - in <sup>3</sup> (per in	nch of stroke)
code,	plain side	rod side
8	.20	.17
7	.44	.39
6	.89	.81
25	1.23	1.08
- 5	1.77	1.62
75	2.41	2.21
4	3.14	2.84
3	4.91	4.60

\*Area x PSIG = Approximate Force

model & lype (stroke)	bore	B dia.	D rod exten.	E nose length	F wrench flat	J rod thread x length	K nose & pīvot thread	L port (NPSF)	M lengih	MM length	P	Q pilot	FI rod dia.	т	U	<b>V</b>	X Pil. Dia - 001 - 006	Z Pivot Hole Dia
8-DP	1/2	.62	.50	.41	noné	10-32 x .50	7/16-20	10-32 UNF	3.31*	3.06*	,37	.04	.187	.42	.25	.31	.437	.16
7-DP	3/4	.88	.50	.50	none	1/4-28 x .50	5/8-18	1/8	4.54	4.25	.48	.07	.250	.66	.34	,38	.625	.25
6-DP	1 1/16	1.12	.62	.50	.25	5/16-24 x .50	5/8-16	1/8	4.62	4.34	.52	.07	.312	.62	.34	.38	.625	.25
25-DP	1 1/4	1.31	1.00	.62	.38	7/16-20 x .75	3/4-16	1/8	5.83	5.47	.63	.07	.437	.91	.41	.50	.750	.25
5-DP	1 1/2	1.55	1.00	.62	.38	7/16-20 x .75	3/4-16	1/8	5.50	5.12	.62	.07	.437	.81	.50	.62	.750	.38
75-DP	1 3/4	1.81	1,19	.75	.44	1/2-20 x .88	1-14	1/4	7.13	6.63	.72	.09	.500	.98	.50	.62	1.030	.38
4-DP	2	2.07	1.25	.81	.50	1/2-20 x .88	1 1/4-12	1/4	6.93	6.50	.69	.12	.625	1.0	.57	.75	1,375	.38
3-DP	2 1/2	2.62	1.25	.81	.50	1/2-20 x .88	1 3/8-12	1/4	6.93	6.50	.69	.12	.625	1.0	.57	.75	1.500	.38
* mode	* model 8 only - add 0.399 for Option M.																	

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# FABCO-AIR air cylinders

### specifications



FORCE (F) is determined by square inches of piston area (A), and pressure (P) in PSIG. F=AxP

VOLUME (V) in cubic inches is determined by square inches of piston area (A), and length of stroke (L). V=AxL.

SPEED is affected by many variables (including force to move load, cylinder volume, control valv etc

For Compressed Air to 200 PSIG

Ambient Temperature: -40°F to 160°F ...as standard

Ambient Temperature: -20°F to 400°F with Fluoroelastomer seals

Model Bore Code I.D.	Port	Rod Diameter		n Area (in²) e (in³/inch of stroke)	Spring Force in Pounds if Cyl. is:				
	I.D.	Size	or (HEX)	a	b (less rod)	c (normal)	c (actuated)		
8	1/2	10-32 UNF	.187 (.187)	.20	.17	1	2		
7	3/4	1/8 PIPE	.250 (.250)	.44	.39	1 1/2	5		
6	1 1/16	1/8 PIPE	,312 (.375)	.89	,81	4	8		
25	1 1/4	1/8 PIPE	.437 (N.A.)	1,23	1.08	7	14		
5	1 1/2	1/8 PIPE	.437 (.437)	1.77	1.62	6	12		
75	1 3/4	1/4 PIPE	.500 (N.A.)	2.41	2,21	12	24		
4	2	1/4 PIPE	.625 (N.A.)	3.14	2.84	15	30		
3	2 1/2	1/4 PIPE	.625 (N.A.)	4.91	4.60	N/A	N/A		

## how to order



examples:

6-S-2 5-DP-4M 8-D-2-1/2B

	ВА								С					
		aammanta												
type		8 Izin	7	6 1 1/16 in.	25	5 1 1/2 in.	75	4	3 21/2 in	maximum stroke in.	comments			
D	double acting nose mount	•	•	•	•	•	•	•	•	12	<ul> <li>Standard strokes are in 1" incre-</li> </ul>			
DP	double acting pivot/double end mount	•	٠	•	٠	•	•	٠	•	12	ments (1/2" for model code 8).			
D2EY	double acting double and rod	•	٠	٠	•	•	٠	•	•	12	Fractional strokes also available.			
BFD	double acting block front mount	•	٠	•		٠				12	Consult factory. Stroke tolerance is			
S	single acting nose mount	•	•	•	•	•	٠	•		6	1/32".			
SP	single acting pivol mount	•	٠	•	٠	٠	٠	٠		6	<ul> <li>Longer than standard stroke lengths</li> </ul>			
SH	single acting nose mount/HEX rod	•	٠	٠		٠	1			6	are available. Consult factory.			
SHP	single acting pivot mount/HEX rod	•	٠	٠		٠				6	<ul> <li>When specifying longer than standard</li> </ul>			
SR	single acting reverse/nose mount	•	٠	٠	٠	٠	٠	•		4	stroke lengths, consider possible rod			
SRP	single acting reverse/pivol mount	•	٠	•	٠	٠	•	•		4	deflection, adequate lubrication, high			
BFS	single acting block front mount	•	٠	•		٠				6	speed friction, etc. No warranty.			
BFSR	single acting reverse/block front mount	•	•	•		•				4				



# FABCO-AIR air cylinders

## how to order options

									D								
		1															
		options available															
type	description	page	Α	В	F	J	K	L	М	N	P	R	T	W	U		
D	- double acting nose mount	6	•	•	•				•	•	•			•			
DP	double acting pivot/double-end mount	7		٠	•	•	•	•	•	•	•	•	•	•	•		
D2EY	double acting double end rod	8			•	•	•	٠		•	•			•			
BFD	double acting block front mount	9		٠	٠				•	•	•						
S	single acting nose mount	10	•		•					•							
SP	single acting pivot mount	11			٠					•		•	•		•		
SH	single acting nose mount/HEX rod	12	٠	ŀ	٠					•							
SHP	single acting pivot mount/HEX rod	13			٠					•		•	•		•		
SR	single acting reverse/nose mount	14			•					•	•			•			
SRP_	single acting reverse/pivol mount	15			•	Ì				•	•	•	•	•	•		
BFS	single acting block front mount	16			•				-	•							
BFSR	single acting reverse/block front mount	17 ·			•					•	•						

#### example: 7-D-4BN (3/4 Bore/Double acting cylinder with bumpers and wearstrip)

option	option decription
A	SIDE PORTED REAR HEAD - Locates rear port on side of body. Available on type D, S and SH (See product pages for details).
В	BUMPER - Reduce mechanical noise - Absorb shock - Negligible stroke change due to compression set - Buna N standard. (Viton Bumpers standard when option B is ordered with Option F.) - Single Acting Models - one bumper on both sides of piston - Standard on type D2EY.
F	FLUOROELASTOMER SEALS (VITON) - For ambient temperatures of -20° to 400° F.
J	ROTATE FRONT HEAD 90 - Front head is rolated 90° clockwise from rear port, viewed from rod end.
К	ROTATE FRONT HEAD 180 - Front head is rolated 180° clockwise from rear port, viewed from rod end.
L	ROTATE FRONT HEAD 270 - Front head is rotated 270° clockwise from rear port, viewed from rod end.
м	INTERNAL MAGNET - For use with Fabco Sensor Switches (see page 22 & 23).
N	WEARSTRIP - Protects pistons and barrel from wear due to minor rod deflection - Standard on type D, DP, and BFD with 5 inches or more of stroke. Standard on type SR and SRP with 3 inches or more of stroke. Not available on Model 8.
Р	POLYPAK ROD SEALS - Provides excellent rod sealing capabilities at low pressures.
R	ROTATED REAR PIVOT TANG - Rotation of rear pivot tang 90°. Port remains in original position.
Т	PIVOT PIN IN REAR TANG - Pivot pin pressed into rear tang. No bracket available, Not available in Models 3 and 4.
W	ROD WIPER - Provides a wiping action to remove most foreign material from exposed rod while maintaining adequate lubricating film. Protects rod and primary rod seal. Not available on Model 8.
U	REAR PIVOT BUSHING - Bushing in rear pivol hole. Hole diameter remains the same. Available on SP, SHP, SRP, DP of models 7, 6, 25, & 5. Standard on model 3 and 4. Note: Model 5 cylinders have no threads on lang (lang diameter is 1.0 inch).