Catalog No. C22116A



HP3.40



- Double Acting Air Cylinder with an Intermediate Stop
- Rear, Center and Top Port Locations
- Flexible Mounting Configurations

Patented

36

HP3.40

DADCO's HP3.40 is a new three position metric air cylinder that offers fully extended and fully retracted positions, as well as a fixed intermediate position that can be reached on both the advance and return stroke based on air supply controls. Various mount configurations are available including the non-rotating TDL2C mount.

Stroke S	L mm		
80	280		
100	300		
125	325		
160	360		





See page 4 for additional mount options.



HP3.40

HP3.40 Application

The operation of the cylinder is controlled by how air is applied to the three ports:

- Low pressure air applied only to the bottom port will cause the rod to extend fully.
- Low pressure air applied only to the center port will cause the rod to retract fully.
- High pressure air applied to the top port while low pressure air is applied to the bottom port will put the rod into the intermediate position.

It is important to maintain 30 psi minimum pressure differential between low and high air pressures.



Low Air Pressure	Advance Force	Return Force	Net Force For Initial Return (Ibs) with High Air Pressure (psi)				
psi	lb	lb	60 psi	70 psi	80 psi	90 psi	100 psi
30	58	49	58	78	97	117	136
40	78	65	-	58	78	97	117
50	97	82	-	-	58	78	97
60	117	98	-	-	-	58	78

The HP3.40 application options are unlimited; this example shows parts being stacked first at the extended position then at the intermediate position.



1.734.207.1100 • 1.800.DADCO.USA • fax 1.734.207.2222 • www.dadco.net

HP Series Air Cylinders

Mount Options

The HP3.40 can be paired with most mounts utilized by the DADCO HP Air Cylinder. The TDL2C mount provides non-rotating configuration while offering multiple attachment points.

Stroke S	H mm		
80	284		
100	304		
125	329		
160	364		





1.734.207.1100 • 1.800.DADCO.USA • fax 1.734.207.2222 • www.dadco.net

Air Regulator The Air Regulator with mounting bracket and guard is available to use with the HP3.40 or other DADCO Air Cylinder products. Unless otherwise specified, fittings are compatible with ø10 pneumatic tubing and are shown below. For use in 102.4 applications that require 0 - 50 psi. **Ordering Example:** HPAR.N.T Outlet Inlet Model: **Outlet Fitting:** Fitting Fitting N = None,71.6 S = Straight,Inlet Fitting: L = Elbow,N = None, 116 T = Tee, S = Straight,R = Run Tee L = Elbow, T = Tee,2 x M8 R = Run Tee 57.2 -SHCS 87.1 Fittings -Straight Port Adapter (S) Run Tee Port Adapter (R) FT.10.G04.T10 FT.50.G04.T10 26.4 G 1/4 G 1/4 Ø10 Ø10 28 30 Branch Tee Port Adapter (T) Elbow Port Adapter (L) FT.40.G04.T10 FT.20.G04.T10 G 1/4 28 Ø10 Ø10 30 30 G 1/4 Exhaust Elbow Port Adapter (X) **BSPP -> NPT Port Adapter** FT.25.G04.T10 FR.10.G04.N04 Exhaust Adjustment Ø10

Accessories

HP Series Air Cylinders

34.2

52.8

85.2

1.734.207.1100 • 1.800.DADCO.USA • fax 1.734.207.2222 • www.dadco.net

G 1/4

1/4

NPT

-33

Other DADCO Products

Micro Series

- · Ideal for coil spring replacement
- 12 mm to 32 mm in diameter
- Up to 3 kN of force on contact
- Attachable mounts and threaded body styles available

Ultra Force® – U Series

- 19 mm to 195 mm in diameter
- Forces up to 199 kN
- Full range of standard stroke lengths up to 125 mm

SL2.090 and SL2.180 – Nitrogen Gas Spring Two Post Lifters

- 160 mm and 180 mm rail widths
- Powered by the Micro 90® and Micro 180®
- Stroke lengths available from 23 mm to 198K mm
- Two post for rail lift applications
- Compact Rail Plate available

ISO / 90.10 Series

- From 32 mm to 195 mm in diameter
- · Forces up to 100 kN
- Full range of standard stroke lengths up to 300 mm
- · Bolt-on or welded mounts available
- ISO Standards

Guide Retainer Sets

- Six rod diameters: 25, 30, 36, 45, 50 and 65 mm
- Robust one-piece housing with top and bottom wipers
- Various stroke lengths to suit application requirements

SLN.090 and SLN.180 – Micro Nitrogen Gas Lifters

- · Non-rotating design; provides lift and guidance
- Two guide rod options for single point, multipoint or rail lift applications
- Compact design powered by the Micro 90[®] and Micro 180[®]
- Stroke lengths available from 25 mm to 125 mm

Printed in USA

©DADCO, Inc. 2022 • All Rights Reserved

Product changes may occur during the life of this catalog without prior notice, but products supplied will remain functionally interchangeable.