

Yale[®] YAL Air Hoists

PULL CORD OR PENDANT THROTTLE CONTROL

Rated Loads: 1/4, 1/2 and 1 Ton

Yale YAL Air Hoists are precision built chain type hoists with a choice of capacities of 1/4, 1/2 and 1 ton. Each size is available in pull cord control and pendant throttle control models. Variations include link type or roller type load chains, hook suspension for portability or lug suspension for close headroom trolley hoist arrangements, and spark resistant link chain models.

Features

- Pull Cord Control provides a lightweight, economical hoist for accurate control of loads.
- Pendant Throttle Control hoists offer 1 one-handed control, for ease of operation.
- Inlet air swivel with built-in strainer provides free hoist movement.
- Aluminum frame and end cover contributes to the lightweight, easily portable, and rugged design.
- Heavy duty shoe type brake is a proven design for stopping and holding loads in heavy duty applications.
- External adjustment screws for decreased lift and lower speeds.
- External brake adjustment.
- Limit stops prevent over-travel in upper and lowering directions.
- Equa-torque gearing of alloy steel, heat treated spur gears is accurately machined to provide a close meshed, compact gear reduction.
- Eight-vane motor provides high torque, smooth starting and excellent control.
- Tapped exhaust port 1/2 NPTF... for CLEAN applications or to add a supplemental muffler in addition to the built-in muffler for even quieter operation.

BASIC HOIST DATA

Rated Loads: 1/4, 1/2 and 1ton (Spark resistant models are rated at 3/8 and 3/4 ton).

Air Pressure Recommended: 90 PSI

Air Consumption: 48 SCFM at 90 PSI

Net Weight (Basic Hoist): 36 lbs.

Suspension: Hook or lug

Control: Pull Cord or Pendant Throttle

Air Inlet Size: 3/8 NPTF

Air Supply Hose: 1/2 I.D. min.

Air Exhaust: 1/2 NPTF

Lift: 10 foot lifts are standard. Longer lifts are an optional extra.

Pendant Control: 6 foot length is standard. Longer lengths are an optional extra.

OPTIONAL

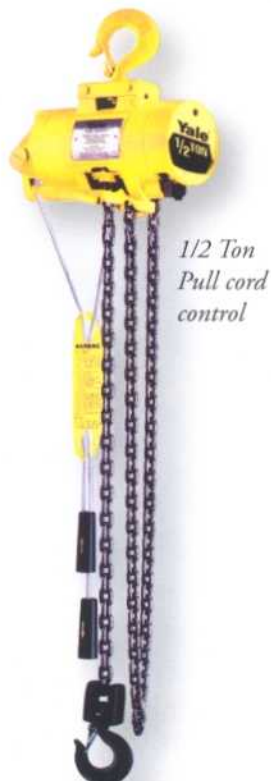
For greater corrosion resistance, a plated load chain is offered as an optional extra.

HOOK MOUNTED/CATALOG NUMBERS AND SPECIFICATIONS

Type	Capacity (tons)	Pull Cord Control		Pendant Throttle Control*		Parts of Load Chain	Lifting Speed Max [†] (fpm)	Lowering Speed Max ^{**} (fpm)
		Catalog No.	Net Weight (lbs.)	Catalog No.	Net Weight (lbs.)			
STANDARD MODELS								
Link Chain	1/4	YAL 1/4-10**65P1	36	YAL 1/4-10**65T1	46	1	65	95
	1/2	YAL 1/2-10**45P1	36	YAL 1/2-10**45T1	46	1	45	120
	1	YAL 1-10**23P2	49	YAL 1-10**23T2	59	2	23	60
Roller Chain	1/4	YAR 1/4-10**65P1	37	YAR 1/4-10**65T1	47	1	65	95
	1/2	YAR 1/2-10**45P1	37	YAR 1/2-10**45T1	47	1	45	120
	1	YAR 1-10**23P2	51	YAR 1-10**23T2	61	2	23	60
SPARK RESISTANT MODELS								
Link Chain	3/8	YAL 3/8-10**60P1SR	36	YAL 3/8-10**60T1SR	46	1	60	100
	3/4	YAL 3/4-10**29P2SR	49	YAL 3/4-10**29T2SR	59	2	29	52

*Equipped with 6 foot pendant control. †Speeds based on 90 PSI line pressure and with full rated hoist load. Hoist speeds are adjustable and can be reduced to 50% of full rated speed. Shipped from factory with hoisting speed set at maximum rated speed; lowering speed set at reduced speed.

** To complete the model number insert **TH** or **LG** in place of the ** when ordering. This swivel top hook **LG** is rigid lug.



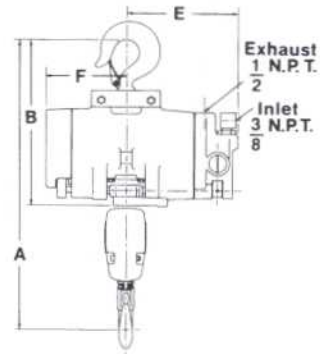
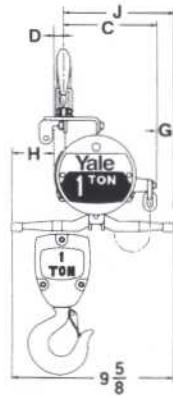
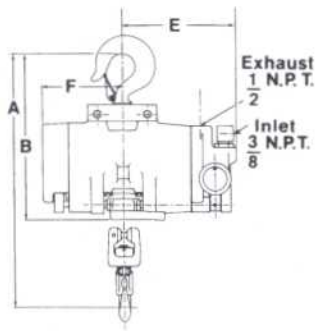
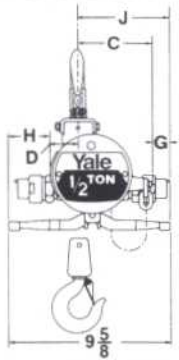
1/2 Ton
Pull cord
control



1/2 Ton
Pendant
Throttle
Control

Yale YAL Air Hoists

HOOK MOUNTED



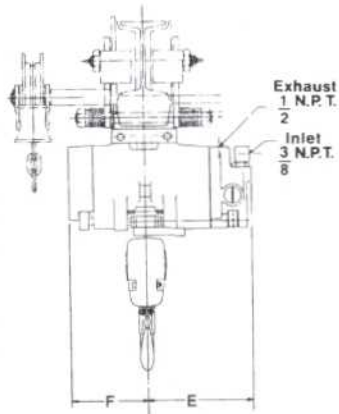
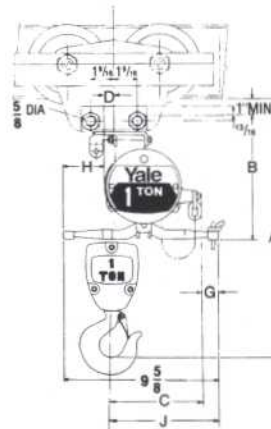
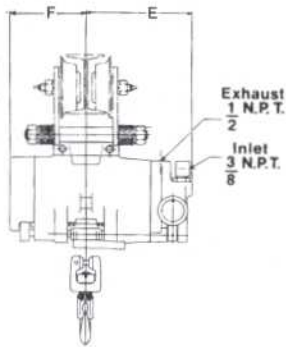
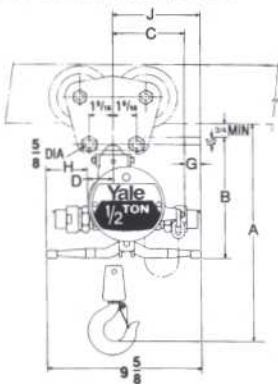
1/4 and 1/2 Ton Standard
3/8 Ton Spark Resistant

1 Ton Standard
3/4 Ton Spark Resistant

OUTLINE DIMENSIONS (IN)

Catalog No.	A	B	C	D	E	F	G	H	J
YAL 1/4, YAL 1/2, YAL 3/8	15 1/4	10 1/4	4 3/4	1 3/4	7 1/16	5 1/16	15/16	2 3/16	5 11/16
YAL 1, YAL 3/4	18	10 1/4	5 3/4	3/4	7 1/16	5 1/16	15/16	2 3/16	6 11/16

LUG MOUNTED



1/4 and 1/2 Ton Standard
3/8 Ton Spark Resistant

1 Ton Standard
3/4 Ton Spark Resistant

OUTLINE DIMENSIONS (IN)

Catalog No.	A	B	C	D	E	F	G	H	J
YAL 1/4, YAL 1/2, YAL 3/8	13 7/8	8 1/8	4 3/4	1 3/4	7 1/16	5 1/16	15/16	2 3/16	5 11/16
YAL 1, YAL 3/4	17	8 1/4	5 3/4	3/4	7 1/16	5 1/16	15/16	2 3/16	6 11/16

SPARK RESISTANT MODELS

Spark resistant models offer maximum protection in hazardous environments. Components for spark resistance include bronze alloy hooks, stainless steel hook latches, non-magnetic chrome-nickel stainless steel load chain, modified load sprocket, guide and stripper arrangement and lower blocks of stainless steel for the 3/8 ton single line model and anodized aluminum body on the 3/4 ton two part reeved model.

The spark resistant models have capacities derated. The stainless steel load chain is lower strength and not as hard as the standard alloy steel load chain, thereby requiring reduced capacity ratings on these models.

WARNING: The equipment illustrated here is not designed or suitable as a power source for lifting or lowering persons. Exceeding rated capacity is dangerous and can result in injury to persons and damage property.