

Spark Resistant 7700 and 7790 Series Link Chain Hoists

Continuous Heavy-Duty Applications

7700 Series: 400 – 1500 lb Capacity

7790 Series: 1500 – 3000 lb Capacity

7700 and 7790 Series Spark Resistant Hoists are designed for Division 1 applications where, under normal operating conditions, the atmosphere contains hazardous concentrations of flammable gases, dust, or other materials.

Specifically engineered for continuous heavy-duty industrial applications – between 400 lbs and 1500 lbs – ARO 7700 Series Spark Resistant Hoists are available with bronze top hook or trolley adapter suspension.

7700 and 7790 Series Spark Resistant Hoists come complete with 10 feet of standard lift and either 6 feet of pendant control or 6 feet of pull chain control.

Spark Resistant Features

- Stainless steel load chain and solid bronze hooks to prevent accidental sparking.
- Pendant control handles, when ordered, are covered with an industrial-grade vinyl grip. Pull chain controls come standard with zinc-plated pull chain.
- Hoist capacities are reduced and speed adjustments are locked into place to maximize chain life.
- Trolley models are supplied with bronze wheels.

Division 1 & 2 Applications

The following definitions may be used as a guide. The actual Division distinction for each application must be determined by your local inspecting authority of the fire underwriters.

Division 1 (Spark-Resistant air hoists are required)

Atmospheres containing hazardous concentrations of flammable gases, dusts, or fibers, continuously, frequently or periodically, under normal operating conditions.

Division 2 (Standard air hoists are required)

Atmospheres, normally non-hazardous, in which a hazardous concentration of flammable gases, dusts, or fibers, occurs when a container or handling system fails, or the ventilating system which normally keeps the concentration non-hazardous fails.



7700 and 7790 Spark Resistant Series Specifications

Description	7712EL	7714EL	7796AL	7798AL	7799AL
Rated capacity (lbs)	500	1500	1500	2400	3000
Control type	Pull chain	Pull chain	Pull chain/Pendent	Pull chain/Pendent	Pull chain/Pendent
Suspension			Hook/Trolley adapter		
Falls of chain	1	2	1	2	2
Lifting speed w/rated load variable from 1 to...fpm	16	13	8	4.6	3.5
Lowering speed w/rated load variable from 1 to...fpm	70	16	16	12	7
Air pressure (psi)			90		
Air consumption at max rated load (scfm)	65-70	65-70	65-70	65-70	65-70
Air inlet size, with 180° swivel (in.)			1/2 NPTF		
Recommended hose size (in.)			1/2 I.D.		
Chain basket: See chain basket chart in accessories	Canvas	Canvas	Canvas	Canvas	Canvas
Load chain size, link (Dia./Pitch)	.250/.750	.250/.750	.312/.858	.250/.750	.250/.750
Weight of hoist (lbs)					
w/Pull chain	36	48	57	76	76
w/Pendent	41	41	62	81	81