

INADEQUATE PIPING & HOSES INFORMATION

The largest pressure loss in a system serving air tools is found in two areas: hoses that are too long and hoses that are too small. The longer the hose, the more friction is created, regardless of size; this can be addressed by increasing hose size. For this reason, small diameter hoses inevitably limit flow. Choosing the proper diameter hose for the distance and flow required will go a long way to limiting pressure loss at the tool.

RECOMMENDED FLEXIBLE HOSE SIZES (I.D.) FOR VARIOUS DISTANCES & FLOWS

Flow (SCFM)	Pressure PSI	Distance							
		25'	35'	50'	75'	100'	150'	200'	
1	100	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
2	100	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
5	100	1/4	1/4	1/4	5/16	5/16	5/16	3/8	3/8
10	100	5/16	5/16	3/8	3/8	3/8	1/2	1/2	1/2
15	100	3/8	3/8	1/2	1/2	1/2	1/2	1/2	1/2
20	100	3/8	1/2	1/2	1/2	1/2	3/4	3/4	3/4
25	100	1/2	1/2	1/2	1/2	3/4	3/4	3/4	3/4
30	100	1/2	1/2	1/2	3/4	3/4	3/4	3/4	3/4
40	100	1/2	3/4	3/4	3/4	3/4	3/4	3/4	3/4
50	100	3/4	3/4	3/4	3/4	3/4	3/4	1	1
60	100	3/4	3/4	3/4	3/4	3/4	1	1	1
70	100	3/4	3/4	3/4	3/4	1	1	1	1
80	100	3/4	3/4	3/4	1	1	1	1	1
90	100	3/4	3/4	1	1	1	1	1	1
100	100	3/4	3/4	1	1	1	1	1	1

Calculations based on a pressure loss (ΔP) of maximum 5 PSIG

NYLON COIL AIR HOSES W/FITTINGS

- Light and easy to handle
- Maximum working pressure, 300 PSI
- 3/8" NPT Male threads
- High impact and abrasion resistance
- Excellent elastic memory, can be stretched repeatedly yet return to original shape for convenient storage
- Colour: High-viz yellow



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Model No.	NPT (M)"	Length'	Price/Each
TLZ150	1/4	25	
TLZ151	1/4	50	
TLZ152	3/8	25	
TLZ153	3/8	50	

AIR HOSE REPAIR KITS

- For a 3/8" hose, 1/4" NPT threads
- Set includes:**
 1 hose splicer
 1 hose end fitting
 3 hose clamps
- Model No. TLZ149**
Price/Each \$



PLUG QUICK COUPLER KITS, 5 PIECES

- Set includes:**
 One 1/4" quick coupler
 One 1/4" female plug
 Three 1/4" male plugs
- Model No. TLZ148**
Price/Each \$



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See page 1374
for Tubing Cutters



VOLUME/CAPACITY

1 in³ (cubic inch) = 16.387 cm³
 1 ft³ (cubic feet) = 0.0283 m³
 1 ft³ = 28.32 litres
 1 gallon (US) = 3.785 litres
 1 gallon (imperial) = 4.546 litres
 1 cm³ (cubic centimeter) = 0.0610 in³
 1 m³ (cubic meter) = 1000 litres

1 m³ = 35.3 ft³
 1 litre = 0.001 m³
 1 litre = 0.0353 ft³
 1 litre = 0.264 gallon (US)
 1 litre = 0.220 gallon (imperial)
 1 fl. ounce (imperial) = 28.413 ml
 1 litre = 35.2 ounces

LENGTH

1 inch = 25.4 mm
 1 ft (feet) = 0.305 m

1 mm = 0.039 in
 1 m = 3.28 ft

WEIGHT

1 ounce = 28.349 g
 1 pound = 453.592 g

1 g = 0.035 ounce
 1 kg = 2.205 lbs

HOSES & HOSE CLAMPS

EASYFLEX AIR HOSES W/FITTINGS

- Techno polymer engineered to be tough and ultra-flexible at extremely low temperatures
- Easily re-coiled after use, no memory
- Lightweight
- -65°F to 149°F, 300 PSI
- Colour: Yellow or blue



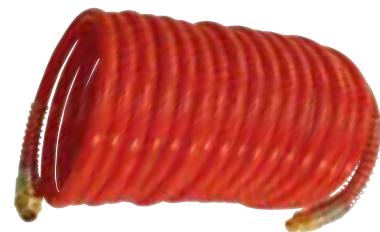
TLZ735

TOPRING

Model No.	Mfg. No.	Colour	Hose I.D."	Hose Length'	Fittings (M)NPT	Price /Each
TLZ735	72.164	Yellow	1/4	25	1/4	
TLZ736	72.168	Yellow	1/4	50	1/4	
TLZ737	72.170	Yellow	1/4	100	1/4	
TLZ738	72.364	Yellow	3/8	25	1/4	
TNB049	72.384	Blue	3/8	25	1/4	
TLZ739	72.368	Yellow	3/8	50	1/4	
TLZ740	72.388	Blue	3/8	50	1/4	

NYLON AIR HOSES W/FITTINGS

- Self-storing
- Excellent abrasion resistance
- Swivel fittings allow maximum directional flexibility
- Reusable and repairable fittings
- -40°F to 180°F, up to 200 PSI
- Colour: Red



TA181

TOPRING

Model No.	Mfg. No.	Hose I.D."	Hose Length'	Fittings (M)NPT	Price /Each
TA181	11.421	1/4	12,5	1/4	
TA182	11.441	1/4	25	1/4	
TA185	11.641	3/8	25	3/8	
TA187	11.681	3/8	50	3/8	

REPLACEMENT SWIVEL FITTINGS

Model No.	Mfg. No.	Hose I.D."	Fittings (M)NPT
TS332	11.042	1/4	1/4
TS334	11.062	3/8	3/8
TS335	11.065	3/8	1/4

FLEXHYBRID HOSES W/FITTINGS

- Engineered hybrid polymer combining best features from PVC and rubber
- Superior flexibility, lightweight and economical
- 14°F to 140°F, 300 PSI
- Colour: Red



TNB036

TOPRING

Model No.	Mfg. No.	Hose I.D."	Hose Length'	Fittings (M)NPT	Price /Each
TNB036	70.115	1/4	25	1/4	
TNB037	70.119	1/4	50	1/4	
BC368	70.316	3/8	25	1/4	
BC370	70.318	3/8	50	1/4	
BC376	70.415	1/2	25	3/8	
BC380	70.419	1/2	50	3/8	

AIRFLEX RUBBER AIR HOSES W/FITTINGS

- Excellent abrasion resistance
- Medium oil resistance
- -40°F to 212°F, 250 PSI
- Colour: Red



BU260

TOPRING

Model No.	Mfg. No.	Hose I.D."	Hose Length'	Fittings (M)NPT	Price /Each
BU260	71.114	1/4	25	1/4	
UP477	71.118	1/4	50	1/4	
BU282	71.315	3/8	25	1/4	
BU286	71.319	3/8	50	1/4	
BU285	71.318	3/8	50	3/8	
BU306	71.419	1/2	50	3/8	
BU305	71.418	1/2	50	1/2	

TOPFLEX RUBBER AIR HOSES

- Maximum oil resistance
- Spark resistant
- Reusable fittings – no crimping required
- -40°F to 212°F, 250 PSI
- Colour: Black



TA511



TNB038

TOPRING

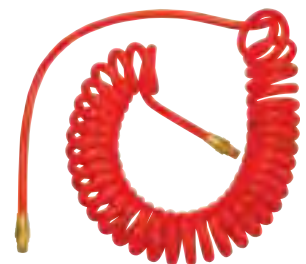
Model No.	Mfg. No.	Hose I.D."	Hose Length'	Fittings (M)NPT	Price /Each
TNB038	77.125	1/4	25	1/4	
TNB039	77.128	1/4	50	1/4	
TNB040	77.130	1/4	100	1/4	
BU472	77.348	3/8	50	1/4	
TNB042	77.338	3/8	50	3/8	
TNB043	77.110	1/4	600	-	
TNB044	77.310	3/8	600	-	

REPLACEMENT REUSABLE FITTINGS

Model No.	Mfg. No.	Hose I.D."	Fittings (M)NPT
TA511	41.861	1/4	1/4
TA512	41.862	3/8	1/4
TA526	41.880	1/4	Barb joint
TA527	41.881	3/8	Barb joint

FLEXCOIL POLYURETHANE AIR HOSES W/FITTINGS

- Self-storing
- Offers little resistance to pull and automatically recoils
- Swivel fittings allow maximum directional flexibility
- Reusable and repairable fittings
- -40°F to 158°F, 140 PSI
- Colour: Red



TA216

TOPRING

Model No.	Mfg. No.	Hose I.D."	Hose Length'	Fittings (M)NPT	Price /Each
TA216	17.610	1/4	15	1/4	
TA217	17.615	1/4	20	1/4	
TA218	17.620	1/4	25	1/4	
TA219	17.625	1/4	30	1/4	
TA220	17.650	1/4	50	1/4	
TA221	17.660	5/16	15	1/4	
TA223	17.670	5/16	25	1/4	
TA226	17.710	3/8	15	3/8	
TA227	17.714	3/8	15	1/4	
TA230	17.720	3/8	25	3/8	
TA231	17.724	3/8	25	1/4	

CUT TO LENGTH TUBING



GENERAL PURPOSE FOR COMPRESSED AIR

Characteristics:

- Ideal for compressed air and water service
- Moderate resistance to oil
- Resists heat, sunlight, ozone and weather

Applications:

- Air tools

Specifications:

- Working temperature: 40°F to 200°F (40°C to 93°C)

Construction:

Tube: Black EPDM
 Cover: Red EPDM
 Reinforcement: Synthetic rubber - multiple textile plies



Model No.	Hose I.D."	Max. PSI	Price /Each Ft.
TA070	1/4	250	
TA071	5/16	300	
TA072	3/8	250	
TA073	1/2	250	
TZ899	3/4	250	

MULTI-PURPOSE MEDIUM OIL RESISTANT (NON-CONDUCTIVE) TUBING

Characteristics:

- Double-reinforced makes it extra strong and tough
- Durable for rugged environmental conditions
- Economical and versatile general purpose hose (air and water)
- Lightweight, flexible
- Performs well in both hot and cold temperatures
- Long service life
- Available in lengths up 700' in one piece

Applications:

- Ideal for air tool and compressed air applications
- Used with all kinds of compressed air equipment found in foundries, shipyards, engineering workshops, construction sites, quarries and mines.

Specifications:

- Working temperature: -29°C to +82°C (-20°F to +180°F)
- Working pressure: 250 PSI two braids

Construction:

Tube: Black nitrile tube, Class A
 Cover: Red medium oil resistant nitrile blend, Class B
 Reinforcement: Spirals of synthetic yarn

Model No.	Hose I.D."	Hose O.D."	Wt. lbs. per 100'	Price /Each ft.
TA074	1/4	0.5	8	
TA075	3/8	0.72	17	
TA076	1/2	0.88	24	

MULTI-PURPOSE FOR COMPRESSED AIR & FLUIDS

Characteristics:

- High quality multi-purpose hose
- Durable for longer life
- High flexibility
- Abrasion resistance
- Good resistance to oils and greases, gasoline and solvents
- May be used to transmit water, oil and many chemicals up to 300 PSI

Applications:

- Ideal for air tool applications

Specifications:

- Working temperature: -20°F to 250°F (-29°C to 121°C)
- Working pressure: 300 PSI two braids

Construction:

Tube: Black Buna-N
 Cover: Red neoprene
 Reinforcement: Synthetic fibre braids

Model No.	Hose I.D."	Hose O.D."	Wt. lbs. per 100'	Price /Each Ft.
TA081	1/4	0.63	18	
TA082	3/8	0.72	20	
TA083	1/2	0.88	27	
TZ901	3/4	1.14	43	
TA084	1	1.50	65	

AUTOMATIC REWIND HOSE REELS W/PVC AIR HOSE

- Durable construction, made from high impact resistant polypropylene
- Compact design
- Double adjustment action to lock hose at desired length
- Sealed connection points at swivel and hose inlet to prevent leaks
- Integrated wall/overhead swivel bracket
- Non-sag hose rollers reduce hose wear
- Adjustable hose stopper
- 60" lead-in hose included



TOPRING

Model No.	Mfg. No.	Hose Width"	Hose Length'	Inlet (M) NPT"	Outlet (M) NPT"	Price /Each
TLV341	79.370	1/4	33	1/4	1/4	
TLV342	79.375	3/8	30	1/4	1/4	
TLV343	79.380	3/8	50	1/4	1/4	

MANUAL REWIND AIR/WATER REELS

- This light weight hand crank reel is designed for general use and lighter-duty applications that require longer lengths of low pressure air/water hoses
- Economical choice for storing and retrieving hoses
- Brass swivel and brass inlet
- Maximum temperature 150°F (65°C)
- Hose not included and assembly is required



REELCRAFT

Model No	Hose I.D."	Outlet (F)NPT"	Inlet (F)NPT"	Hose Length'	Max PSI	Dimensions W" x D" x H"	Wt lbs.	Price /Each
F1054	3/8	3/8	3/8	50	300	16 3/4 x 10 1/2 x 11 1/2	12	
F1055	3/8	3/8	3/8	100	300	21 1/8 x 10 1/2 x 11 1/2	16	

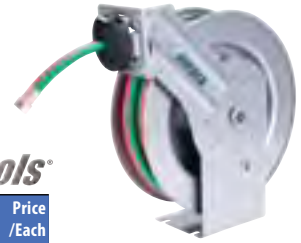
HOSES & HOSE CLAMPS

WELDING HOSE REELS

- Heavy-duty, reinforced steel stampings for increased strength
- 1/4" oxygen and acetylene twin hose
- Leakproof double O-ring seals
- Compact design allows reels to fit in tight locations
- Multi-position guide arms for multiple mounting options
- Kinkless, oil resistant high quality hose
- Spring rewind features long life spring with declutching arbor
- Grade R hose
- Durable, corrosion-resistant powder coat paint

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TLZ487



Model No.	Drive Type	Hose I.D."	Hose Length'	Max PSI	Oxygen Inlet & Outlet		Acetylene Inlet & Outlet		Dimensions				Wt. lbs.	Price /Each
									W"	x	D"	x		
TLZ487	Spring	1/4	25	300	9/16" x 18 UNF (female)	9/16" x 18 UNF (female)	8	x	14 3/4	x	13 5/8	25.9		
TLZ488	Spring	1/4	50	300	9/16" x 18 UNF (female)	9/16" x 18 UNF (female)	8 5/8	x	20 1/2	x	20 1/2	42.2		

AIR/WATER DELIVERY REELS

- Lightweight and easy to handle
- Made of corrosion proof polypropylene
- Working temperature to 65°C
- Designed to protect the hose and allow for easy cleaning of both hose and reel
- Wall or floor mount (floor stand not included)
- Hose included

REELCRAFT



FH821

Model No.	Mfg. No.	Hose I.D."	Hose Length'	Max PSI	Hose Outlet (M) NPT"	Reel Inlet (F) NPT"	Dimensions				Wt. lbs.	Price /Each	
							W"	x	D"	x			H"
FH821	SGA3650 OLP	3/8	50	232	3/8	3/8	9 1/8	x	22	x	19 3/8	21	
FH822	SGA3665 OLP	3/8	65	232	3/8	3/8	9 1/8	x	22	x	19 3/8	25	
FH823	SGA3850 OLP	1/2	50	232	1/2	1/2	9 1/8	x	22	x	19 3/8	23	

LIGHTWEIGHT & ECONOMICAL INDUSTRIAL REELS

- Lighter spring driven hose reel designed for applications that are less demanding, yet require a product that can withstand industrial use
- Steel components are individually powder coated and teamed with composite materials, which virtually eliminates corrosion

REELCRAFT



FH522

Model No.	Mfg. No.	Drive Type	Hose I.D."	Hose Length'	Max PSI	Hose Outlet (M) NPT"	Reel Inlet (F) NPT"	Reel Outlet (F) NPT"	Dimensions				Wt. lbs.	Price /Each
									W"	x	D"	x		
FH522	RT435-OLP	Spring	1/4	35	300	1/4	3/8	-	5 3/4	x	16 1/2	x	17 7/8	20
FH523	RT450-OLP	Spring	1/4	50	300	1/4	3/8	-	5 3/4	x	16 1/2	x	17 7/8	24
FH524	RT635-OLP	Spring	3/8	35	300	1/4	3/8	-	5 3/4	x	16 1/2	x	17 7/8	21
FH525	RT650-OLP	Spring	3/8	50	300	1/4	1/2	-	6 1/4	x	16 1/2	x	17 7/8	27
FI056	RT835-OLP	Spring	1/2	35	300	1/2	1/2	-	6 1/4	x	16 1/2	x	17 7/8	27
FI057	RT850-OLP	Spring	1/2	50	300	1/2	1/2	-	7 3/4	x	16 1/2	x	17 7/8	37

2-Year Limited Warranty Standard colour as shown - black composite / powder coat paint red base & guide arm

Looking for a workbench?
Refer to pages 112 - 121

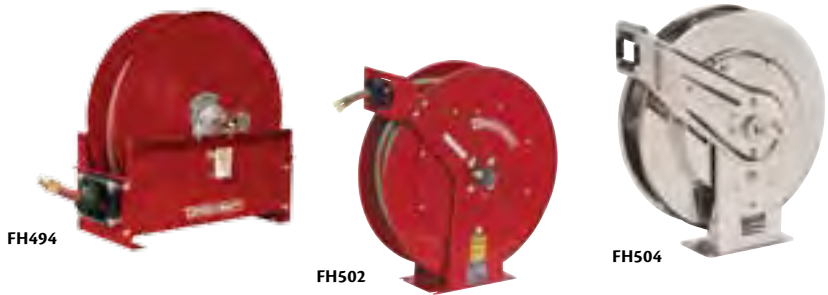


HOSE REELS

REELS CONTRIBUTE TO AN IMPROVED WORK ENVIRONMENT WHICH SAVES TIME, EQUIPMENT & MONEY

Standard features Include:

- Durable, corrosion-resistant powder coat paint
- Heavy-duty, reinforced steel stampings for increased strength
- Permanently lubricated for long, trouble-free service
- Multi-position guide arms for versatile mounting options
- Kinkless, high quality hoses
- Spring rewind features long life spring with declutching arbor



REELCRAFT

HEAVY-DUTY INDUSTRIAL STEEL REELS

Model No.	Mfg. No.	Drive Type	Hose I.D."	Hose Length'	Max PSI	Hose Outlet (M)NPT"	Reel Inlet (F)NPT"	Reel Outlet (F)NPT"	W"	Dimensions D" x H"	Wt. lbs.	Price /Each
AIR or WATER reels for manufacturing plants, body shops, workshops, service stations, fabricators, spray booths - sold with hose												
TN315	4435-OLP	Spring	1/4	35	300	1/4	3/8	-	5 5/8	x 12 3/8 x 12 7/8	19	
TN317	4625-OLP	Spring	3/8	25	300	1/4	3/8	-	5 5/8	x 12 3/8 x 12 7/8	20	
TN316	5635-OLP	Spring	3/8	35	300	1/4	3/8	-	6 1/8	x 14 x 14 3/8	25	
TN318	7650-OLP	Spring	3/8	50	300	1/4	1/2	-	7	x 19 3/4 x 20 1/4	43	
TN319	7850-OLP	Spring	1/2	50	300	3/8	1/2	-	7	x 19 3/4 x 20 1/4	47	
FI058	5450-OLP	Spring	1/4	50	300	1/4	3/8	-	6 1/8	x 14 x 14 3/8	26	
FH533	5650-OLP	Spring	3/8	50	300	1/4	3/8	-	5 7/8	x 16 1/2 x 17 5/8	36	
FH534	81100-OLP	Spring	3/8	100	300	3/8	1/2	-	10 1/2	x 24 x 25 3/8	82	
FH490	82100-OLP	Spring	1/2	100	300	1/2	1/2	-	10 1/2	x 24 x 25 3/8	95	
FH491	83050-OLP	Spring	3/4	50	250	3/4	3/4	-	10 1/2	x 24 x 25 3/8	88	
FH492	D83075-OLP	Spring	3/4	75	250	3/4	3/4	-	13	x 24 x 25 3/8	102	
FH493	D84050-OLP	Spring	1	50	250	3/4	1	-	15 3/4	x 24 x 25 3/8	103	
FH494	E9350-OLP	Spring	3/4	50	250	3/4	3/4	-	16 3/4	x 26 1/4 x 26 3/8	140	
FH495	E9450-OLP	Spring	1	50	250	3/4	1	-	16 3/4	x 26 1/4 x 26 3/8	157	
OIL - medium pressure - furnished standard with S.A.E. 100 RTT one wire braid hose - sold with hose												
TN323	7850-OMP	Spring	1/2	50	3250	1/2	1/2	-	7	x 19 3/4 x 20 1/4	57	
GREASE or HYDRAULIC OIL- high pressure reel - furnished standard with S.A.E. 100 R2T two wire braid hose - sold with hose												
TN325	7650-OHP	Spring	3/8	50	4800	1/4	1/2	-	7	x 19 3/4 x 20 1/4	60	
WASHDOWN - high pressure reel with maximum product delivery - equipment cleaning, pressure washing - sold without hose												
FI059	PW7600-OHP	Spring	3/8	50	5000	-	1/2	3/8	7	x 19 3/4 x 20 1/4	43	
FH496	PW81000-OHP	Spring	3/8	100	5000	-	1/2	1/2	10 1/2	x 24 x 25 3/8	86	
DUAL HYDRAULIC - medium pressure reel ideal for operating hydraulic cylinders, tools and equipment - sold with hose												
FH497	TH88050-OMP	Spring	1/2	50	2000	1/2	1/2	-	13	x 24 x 25 3/8	114	
FUEL DELIVERY - low pressure equipped with Viton® seals & fuel grade hose for mobile & permanent mount applications - sold with hose												
FH498	F7925-OLP	Spring	3/4	25	250	3/4	3/4	-	7	x 19 3/4 x 20 1/4	47	
FH499	F83050-OLP	Spring	3/4	50	250	3/4	3/4	-	10 1/2	x 24 x 25 3/8	89	
FH500	FD84050-OLP	Spring	1	50	250	1	1	-	15 3/4	x 24 x 25 3/8	120	
WELDING REELS - used for a wide variety of gases such as acetylene, Mapp gas, propane gas, natural gas and fuel gases - sold with hose												
FH501	TW7450-OLPT	Spring	1/4	50	200	note 1	1/4	-	7 3/8	x 19 3/4 x 20 1/4	50	
FH502	TW84100-OLPT	Spring	1/4	100	200	note 1	note 2	-	13	x 24 x 25 3/8	101	
STAINLESS STEEL for AIR, WATER or OIL - corrosion-resistant reels - swivels include Viton® O-rings - sold without hose												
FH503	5600-OLS	Spring	3/8	35	500	-	3/8	3/8	6 1/8	x 14 x 14 3/8	22	
FH504	7800-OLS	Spring	1/2	50	500	-	1/2	1/2	7	x 19 3/4 x 20 1/4	41	
FH505	7800-OMS	Spring	1/2	50	3000	-	1/2	1/2	7	x 19 3/4 x 20 1/4	45	
HAND CRANK for AIR or WATER - designed for medium-duty applications requiring longer lengths of hose - sold without hose												
FH506	CA32106L	Manual	1/2	100	1000	-	1/2	1/2	19 3/4	x 17 3/4 x 20 1/4	40	
FH507	CA32112L	Manual	1/2	200	1000	-	1/2	1/2	25 3/4	x 17 3/4 x 20 1/4	46	
FH508	CA33112L	Manual	3/4	100	1000	-	3/4	3/4	19 3/4	x 17 3/4 x 20 1/4	46	
FI060	CB37118L	Manual	1	100	300	-	1	note 3	34	x 17 3/4 x 20 1/4	52	
HOSE REEL CART FOR 12" HAND CRANK REELS - 8" semi-pneumatic rubber tires, adjustable handle, rugged 1" square tubular steel frame												
FH509	600741-2	-	-	-	-	-	-	-	23 3/4	x 27 x note 4	-	

2-Year Limited Warranty - Note 1: 9/16" - 18 UNF Female Note 2: 9/16" - 18 UNF Male Note 3: 1" NPTM Note 4: Handle height adjustable to 35 5/8", 38 5/8", 41 1/2", 44 1/2" Standard colour as shown - powder coat paint red



HOSE REELS

- Heavy-duty, reinforced steel stampings for increased strength
- For use with air and water
- Compact design allows reels to fit in tight locations
- Multi-position guide arms for multiple mounting options

- Kinkless, oil resistant high quality hose
- Spring rewind features long life spring with declutching arbor
- Durable, corrosion-resistant powder coat paint

aurora tools®

Model No.	Drive Type	Hose I.D."	Hose Length'	Max PSI	Hose Outlet (M) NPT"	Reel Inlet (F) NPT"	W"	Dimensions D" x H"	Wt. lbs.	Price /Each
TLZ482	Spring	1/4	35	300	1/4	3/8	6	x 15 1/2 x 14	26.6	
TLZ483	Spring	3/8	25	300	1/4	3/8	6	x 15 1/8 x 13 7/8	26.2	
TLZ484	Spring	3/8	35	300	1/4	3/8	6 5/8	x 17 1/2 x 16 1/2	34.7	
TLZ485	Spring	3/8	50	300	1/4	3/8	6 1/2	x 20 x 18 3/8	40.3	
TLZ486	Spring	1/2	50	300	1/2	1/2	6 5/8	x 20 1/4 x 17 7/8	44.3	



TLZ483