R-SERIES LIGHTWEIGHT HIGH PRESSURE HOSEREELS

Liquip's all new R-Series drum style hosereels provide the perfect balance of strength and reduced weight to allow for increased payload capacity.

Liquip hosereels are designed for tough conditions and the R-Series is no exception. Beyond incorporating Liquip's proven technologies that work flawlessly in high pressure applications, Liquip's efforts were concentrated on re-engineering the hosereel design to reduce weight whilst withstanding the harshest operating environments and offering exceptional quality and usability.

Featuring an all new stainless steel manifold, aluminium base frame, drum and cheek plates, and a self aligning bearing, it's clear that no stone has been left unturned during the development of the R-Series reel.

The R-series is suitable for use in petroleum, aviation applications (Use RxxxHPLPG for LPG applications).

R310HP model shown

Key Features

- Lightweight design for increased payload capacity.
- 38mm flow path throughout.
- The stainless steel manifold and 1½" BSPT gooseneck allow for multiple product compatibility.
- The aluminium exterior eliminates the need for additional painting or coatings.
- Manifold, shafts and seal components can be easily accessed from the outside providing ease of service and maintenance.
- R series reels can be driven manually, hydraulically or pneumatically.
- Liquip's pneumatic motor is easy to operate and quiet.
- Liquip's pneumatic motor can be effectively operated using Liquip's control valve (P/N 9953).
- Incorporates a flexible hose connection to ensure longevity of the hosereel.
- Mounting positions allow for easy retro fitting when replacing prior HR series hosereels.
- A range of drum lengths available with the same hose capacity as their predecessors.
- Left or Right hand configurable to ensure flexibility during installation.
- Supplied as standard with an anti-rotation lock to prevent hose unravelling.
- All reels are Australian made and supported through Liquip's distribution network.
- Standard Gooseneck is 1½" BSPT and can be reduced as required.

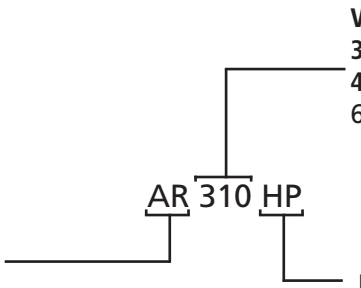
Technical Information

Base Hosereel	
Max allowable working pressure	2,100 kPa
Periodic Service	Annually - check O-rings and replace as required.
Mounting	4 x M10 Bolts - see mounting footprint on following pages.
Inlet and Outlet **1½" BSPT as Standard**	Reducers can be used to suit the following diameter hose: 25mm (1") 32mm (1¼") 38mm (1½")(Standard)
Rewind Options	Manual, Hydraulic or Pneumatic (air)
Drum widths and weights (less motors)	310mm (12") - 19kg 460mm (18") - 20kg 610mm (24") - 21kg
Materials	-Stainless steel 304 Manifold & Gooseneck and Wetted components -Aluminium cheek plates and drum. -Viton seals.

Pneumatic Motor	
Max Pressure	620 kPa (6.2 Bar/90 psi)
Min Pressure	400 kPa (4 Bar/60 psi)
Hosereel Speed	56 RPM - AR310HP 61 RPM - AR460HP/AR610HP
Air Tank Size	200 litres
Max Air Consumption	1100 (Nl/min) at 620 kPa - AR310HP 1,600 (Nl/min) at 620kPa - AR460HP/ AR610HP
Hydraulic Motor	
Max Inlet Pressure	17,500 kPa (175bar/2,538 psi)
Max Fluid Flowrate	60 LPM
FT1251538 Flow Control Valve	210 Bar Working Pressure 30 LPM Recommended Max Flow Rate
5412 Hydraulic Control Valve	4 Spool only, 45 LPM rated flow
Manual Rewind	
Winding Force Requirement	15 kg (force)

Ordering Information

Configurations and example part number



Width of reel
310 = 310mm (12")
460 = 460mm (18")
610 = 610mm (24")

Rewind Mechanism
AR = Pneumatic rewind
Motor included. Control sold separately
FR = Manual rewind
Rewind handle included.
HR = Hydraulic rewind
Motor included loose as a kit **HRxxxHPZ**. Control sold separately
R = Hydraulic ready
Motor and Control sold separately

Reel Style
HP = High Pressure Drum comes with 1½" BSPT Swivel & Gooseneck
HPC = High Pressure Cartwheel (coming soon)
Nickel Plated and Galvanised models available upon request

Associated Equipment

- **R-Series Hosereel LPG Spec:** RxxxHPLPG
- **Cartwheel/Catherine Style Hosereels- Standard**: AHR250 series.
- **Aviation Drum style hosereels**: AHR250D series (suit 2" hoses).
- **Recommended hose**: Continental / Elaflex / Alfagomma suction or delivery hose.
- **Recommended swivels**: Liquip SJ series swivels or OPW swivels.
- **Industrial nozzles:**
  210L0104LLIQUIP: Nozzle 1¼" BSPP C/W spout OPW 210 series High Flow
  210L0105LLIQUIP: Nozzle 1½" BSPP C/W spout OPW 210 series High Flow

Hosereel capacity in metres

Hose Size (NB)	Beads	R310HP	R460HP	R610HP
¾"	no beads	62	93	137
1"	no beads (with beads)	39 (11)	64 (18)	88 (25)
1¼"	no beads (with beads)	24 (9)	35 (14)	53 (21)
1½"	no beads (with beads)	22 (4)	33 (5)	48 (8)

Category	Item	Description
Goosenecks	R310HP-4	Gooseneck S/S - 1½" BSPT
Pneumatic Rewind	5383	Pneumatic motor for AR310HP
	9950	Pneumatic motor for AR460HP and AR610HP
	R310HP-26	5383 Pneumatic motor with gearbox assembly to suit AR310HP series hosereels
	R310HP-26L	9950 Pneumatic motor with gearbox assembly to suit AR460HP/AR610HP series hosereels
Hydraulic Rewind	1295	Hydraulic motor Danfoss
	5412	Hydraulic Control Valve (Motor Spool 2000psi Relief Spring Centered Detent to port A)
	FT1251538	FLOW CONTROL VALVE 3/8 ADJUSTABLE
Manual Rewind	R310HP-31	Manual crank handle and gearbox assembly
	R310HP-34	Handle Assembly only

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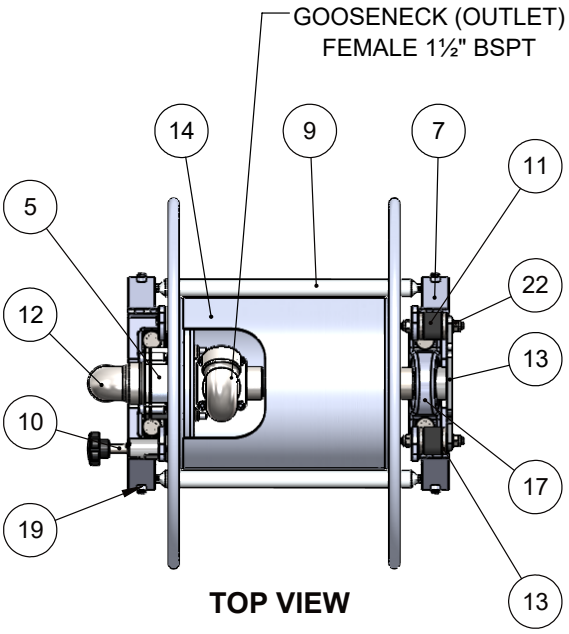
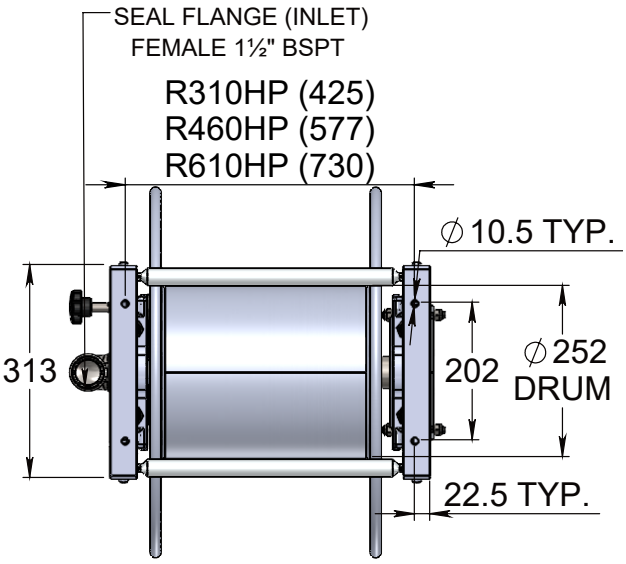
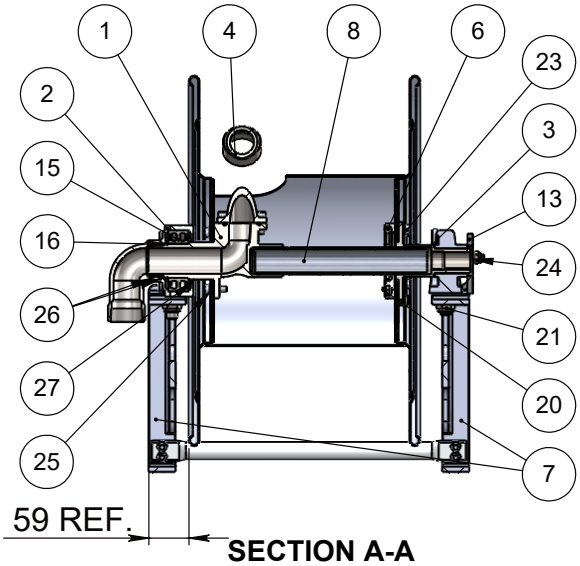


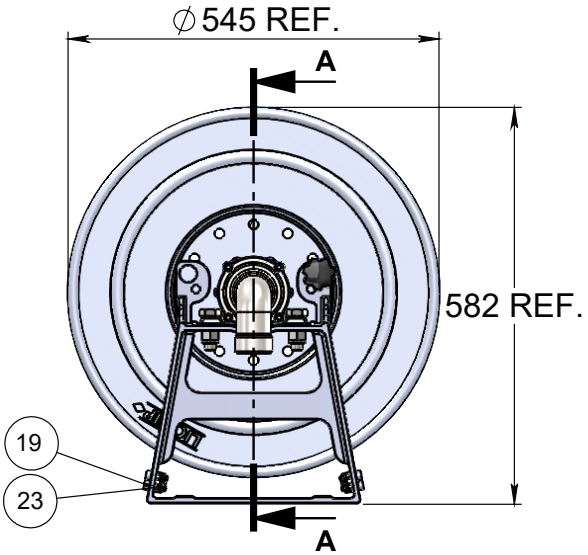
TOP VIEW



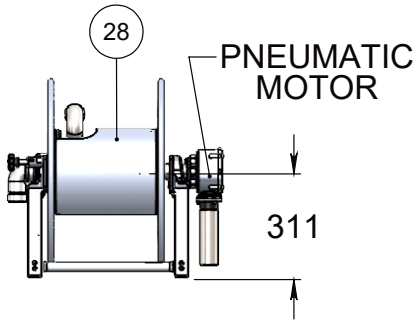
MOUNTING FOOTPRINT



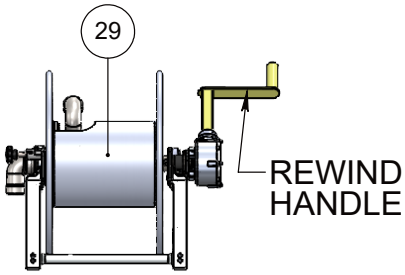
SECTION A-A



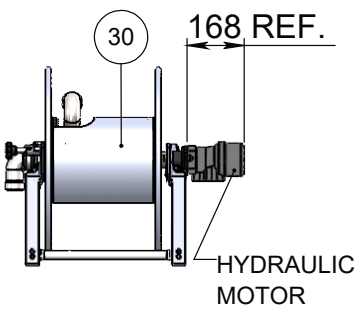
END VIEW



AR SERIES REEL
ARxxxHP



FR SERIES REEL
FRxxxHP



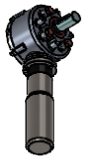
HR SERIES REEL
HRxxxHPZ

BOM - R-Series Lightweight High Pressure Hosereels						
ITEM NO.	PART NUMBER	DESCRIPTION	R310HP QTY.	R460HP QTY.	R610HP QTY.	MATERIAL
1	R310HP-1	MANIFOLD	1	1	1	ST STEEL
2	R310HP-2	SEAL FLANGE	1	1	1	ST STEEL
3	R310HP-3	INPUT SHAFT-FLANGE	1	1	1	ST STEEL
4	R310HP-4	GOOSENECK	1	1	1	ST STEEL
5	R310HP-5	BEARING HOUSING	1	1	1	ALUMINIUM
6	R310HP-6	BACKING PLATE	1	1	1	ALUMINIUM
7	R310HP-7	A-FRAME SUPPORT	2	2	2	ALUMINIUM
8	R310HP-8	CONNECTING TUBE	1	-	-	ALUMINIUM
	R460HP-8	CONNECTING TUBE	-	1	-	ALUMINIUM
	R610HP-8	CONNECTING TUBE	-	-	1	ALUMINIUM
9	R310HP-9	TUBE (25 x 3 x I.D 19mm)	2	-	-	ALUMINIUM
	R460HP-9	TUBE (25 x 3 x I.D 19mm)	-	2	-	ALUMINIUM
	R610HP-9	TUBE (25 x 3 x I.D 19mm)	-	-	2	ALUMINIUM
10	R310HP-12	LOCK PIN ASSEMBLY	1	1	1	SS & AL
11	R310HP-15	RUBBER MOUNT	2	2	2	STEEL & RUBBER
12	R310HP-16	SPACER	4	4	4	ST STEEL
13	R310HP-22	BRACKET MOTOR MOUNT	1	1	1	ST STEEL
14	R310HP-23	HOSEREEL DRUM	1	-	-	ALUMINIUM
	R460HP-23	HOSEREEL DRUM	-	1	-	ALUMINIUM
	R610HP-23	HOSEREEL DRUM	-	-	1	ALUMINIUM
15	5375	DOUBLE ROW BALL BEARING	1	1	1	STEEL
16	5376	EXTERNAL CIRCLIP	1	1	1	STEEL
17	4637	BEARING & BLOCK	1	1	1	STEEL & IRON
18	5481	M16 x 50 Z/P	4	4	4	ST STEEL
19	4942	M8 x 25 SS	28	28	28	ST STEEL
20	6533	M6 x 20 SS	2	2	2	ST STEEL
21	5482	M16 NYLOC NUT	4	4	4	ST STEEL
22	5484	M10 NYLOC NUT	4	4	4	ST STEEL
23	5483	M8 NYLOC NUT	8	8	8	ST STEEL
24	0813	M10 WASHER Z/P	4	4	4	ST STEEL
25	6605	M8 WASHER SS	6	6	6	ST STEEL
26	5374V	O-RING for R310HP-24	3	3	3	VITON-B 80
27	5378V	O-RING for R310HP-5	1	1	1	VITON-B 75

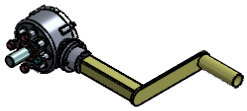
AR, FR & HR SERIES LIGHTWEIGHT REEL ASSEMBLY								
ITEM	PART #	R310HP QTY.	R460HP QTY.	R610HP QTY.	R310HP-26 QTY.	R310HP-26L QTY.	R310HP-31 QTY.	1295 QTY.
28	AR310HP	1	-	-	1	-	-	-
	AR460HP	-	1	-	-	1	-	-
	AR610HP	-	-	1	-	1	-	-
29	FR310HP	1	-	-	-	-	1	-
	FR460HP	-	1	-	-	-	1	-
	FR610HP	-	-	1	-	-	1	-
30	HR310HPZ	1	-	-	-	-	-	1
	HR460HPZ	-	1	-	-	-	-	1
	HR610HPZ	-	-	1	-	-	-	1

HOSEREEL SUB-ASSEMBLIES AND KEY SPARE PARTS

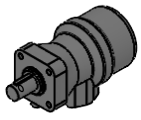
PNEUMATIC MOTOR & GEARBOX ASSEMBLY-SMALL
PART # : R310HP-26



PNEUMATIC MOTOR & GEARBOX ASSEMBLY-LARGE
PART # : R310HP-26L



GEARBOX & REWIND HANDLE
PART # : R310HP-31
MANUAL REWIND ASSEMBLY

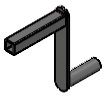


HYDRAULIC MOTOR
PART # : 1295

PART # : 5383
PNEUMATIC MOTOR SMALL

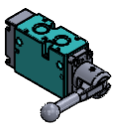
PART # : 9950
PNEUMATIC MOTOR LARGE

PART # : R310HP-4
GOOSENECK S/S 1½" BSPT



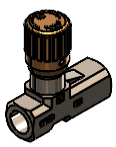
PART # : R310HP-34
MANUAL REWIND HANDLE ONLY

PART # : VITON SEAL KIT
5374V ORING VITON
5378V ORING VITON



PART # : 9953
VALVE PULL HANDLE LEVER/ DETENT PERP C/W FITTINGS

PART # : 5412
HYDRAULIC CONTROL VALVE (MOTOR SPOOL 2000PSI RELIEF SPRING CENTERED DETENT TO PORT A)



PART # : FT1251538
FLOW CONTROL VALVE 3/8 ADJUSTABLE