

AHR250 - AVIATION CARTWHEEL STYLE HOSEREEL

Liquip The Liquip offers a range of single wrap Cartwheel/Catherine style hose reels suitable for aviation fuels.

Liquips AHR250 Series reels are proven in commercial, military and mobile fueling applications.

Cartwheel style hose reels are a convenient method of storing a quantity of fuel delivery hose. When the fill point is located at varying locations the required length of hose can be dispensed and rewound by hydraulic or manual means.

Liquip can also offer custom builds the incorporates a hose guide or "chute" and nozzle stowage, to which interlocks are usually added to help prevent drive away accidents and product spills.



AHR250A SERIES Cartwheel Hose Reel

Key Features

- Single wrap heavy duty design for ease of use and longevity.
- Can be supplied with open spoke design. (AHR250 reel is available with side infill panels as standard).
- Dedicated inlet and rewind sides provides robust construction in the harshest environments.
- Hose inlet is 3" TTMA for strong connection.
- A range of diameters and widths available to accommodate various hose diameters and lengths, with or without hose beads / protection rings.
- Can be manually or hydraulically operated - hydraulic ready (no motor as standard).
- Aluminium manifold and nickle plated gooseneck for aviation fuel.
- Support Frame not supplied to allow for customer specific mounting applications.

Technical Information

AHR250 Aviation Cartwheel Style Hosereel

Working Pressure	2,100 kPa	Rewind Options	Manual Hydraulic
Periodic Service	Annually remove and repack bearing on the inlet side of the reel. Support frame not supplied (see following page for mounting dimensions).	Materials	-Aluminium cartwheels, drum and manifold. -Nickel Plated Steel Gooseneck. -Viton Seals.
Mounting	Inlet flange is to suit 75mm (3") TTMA – 8 off 3/8" BSW x 25mm deep blind threads on a 124mm PCD. Inlet can be positioned on either side of the Hose Reel.	Variants	AHR250A Hose Reels: suit hose OD from 86mm to 110mm. AHR250B Hose Reels: suit hose OD from 56mm to 85mm. AHR250C Hose Reels: suit hose OD from 25mm to 55mm.
Operation	Un-hook nozzle and dispense hose to the required location. To rewind the hose, a hydraulic motor is used (supplied separately). Rewinding can also be done by rotating the outer rim. The hose nozzle storage (supplied separately) can be fitted with interlocks to help prevent drive away accidents and product spills.	Dismantle	None Required.
		Weight	37 kg.
		Cartwheel lining	Recommended for hoses with hose beads.
		Hose sizes (ID)	1" - 2" nominal bore Contact Liquip for hosereels supplied complete with hose.

Ordering Information

Example - AHR250 A A H1

Hosereel series	Hose Sizes (OD)	Gooseneck	Rewind Type	Lining
AHR250	A - suits 86 - 110mm B - suits 56 - 85mm C - suits 25 - 55mm	A - 63mm (2½" BSPP) B - 50mm (2" BSPP) C - 38mm (1½" BSPP)	M - Manual H - Hydraulic*	BLANK - no lining 1 - AHR250-34 Lining

*Hydraulic Version comes with AHR250-13 hydraulic motor mount plate, (LIQ1295 motor supplied separately).

Associated Equipment

- **Aviation Drum Style Hose Reel:** AHR250D series
- **Recommended hose:** Elaflex or Continental Aviation hose in sizes as per technical information table below.
- **Overwing Nozzles:** AVN series overwing nozzles or OPW 295 series overwing nozzles.
- **Underwing Nozzles:** Contact Liquip for ordering information.
- **Hydraulic Motor:** LIQ1295: HYD MOTOR DANFOSS (HOSEREEL).
- **Rollers and guides.**

ITEM	PART No.	DESCRIPTION	MATERIAL	AHR250A	AHR250B	AHR250C
1	AHR250-2	HOUSING BEARING	ALUMINIUM	2	2	2
2	AHR250-13	MOUNTING PLATE	ALUMINIUM	1	1	1
3	5715	BALL BEARING DEEP GROOVE	STEEL	2	2	2
4	AHR250-19	ADAPTOR BEARING	ALUMINIUM	1	1	1
5	AHR250-11	ADAPTING BUSH	STEEL	1	1	1
6	4585	CIRCLIP EXTERNAL METRIC	STEEL	2	2	2
7	0031	BOLT HEX HD IMP	Z/P STEEL	8	8	8
8	0064	BOLT HEX	Z/P STEEL	10	10	10
9	0056	BOLT HEX HD IMP	Z/P STEEL	12	12	12
10	0102	WASHER FLAT	Z/P STEEL	54	54	54
11	0101	WASHER FLAT	Z/P STEEL	24	24	24
12	0149	NUT NYLOC	Z/P STEEL	12	12	12
13	AHR250-1	MANIFOLD	ALUMINIUM	1	1	1
14	6676	SPRING (ROLL) PIN	Z/P STEEL	1	1	1
15	AHR250-3	SEAL HOUSING	ALUMINIUM	1	1	1
16	0127	O-RING	VITON A	2	2	2
17	AHR250-8	CHEEK PLATE - OFFSET	ALUMINIUM	2	-	2
	AHR250-5	CHEEK PLATE - FLAT	ALUMINIUM	-	2	-
18	AHR250-39C	SNAIL DRUM - CARTWHEEL	ALUMINIUM	1	1	1
19	AHR250-36	BOLT SPECIAL	Z/P STEEL	1	-	-
	AHR250-35	BOLT SPECIAL	Z/P STEEL	6	1	-
	4907	BOLT IMPERIAL	Z/P STEEL	-	6	1
	0059	BOLT IMPERIAL	Z/P STEEL	-	-	6
20	0022	SETSCREW HEX HD	Z/P STEEL	4	4	4
21	0109	WASHER SPRING	Z/P STEEL	4	4	4
22	4281	GASKET - GOOSENECK	KLINGERITE	1	1	1
23	AHR250-6-50	GOOSENECK 2" BSPP	N/P STEEL	-	1	-
	AHR250-6-38	GOOSENECK 1-½" BSPP	N/P STEEL	-	-	1
24	0150	NUT NYLOC	Z/P STEEL	25	25	25
25	1316	CAP/PLUG	PVC RED	1	1	1
26	AHR250-9	CARTWHEEL SUB ASSEMBLY	ALUMINIUM	2	2	2
27	AHR250-34	LINING - CARTWHEEL (OPTIONAL)	ALUMINIUM	4	4	4

NOTES:

- AHR250-34 CARTWHEEL LINING IS RECOMMENDED WHEN HOSE IS FITTED WITH WEAR BEADS.
 - AHR250A HOSEREELS WILL ACCEPT 2" & 2-½" HOSES WITH WEAR BEADS.
 - AHR250B HOSEREELS WILL ACCEPT 1-¼" & 1-½" HOSES WITH WEAR BEADS AND 2" & 2-½" HOSES WITHOUT WEAR BEADS.
 - AHR250C HOSEREELS WILL ACCEPT 1-¼" & 1-½" HOSES WITHOUT WEAR BEADS.
- FOR HYDRAULIC REWIND, MOTOR (PART 1295) IS SUPPLIED SEPARATELY.
- FOR AHR250C HOSEREELS REDUCING NIPPLE IS SUPPLIED AS REQUIRED. 1-½" BSP, 1-¼" BSP OR 1" BSP.

OPTIONS	HOSE SIZES (OD)			GOOSENECK		REWIND DRIVE		OPTIONAL
	ASSEMBLY NUMBERS	Ø86-110mm (A)	Ø56-85mm (B)	Ø25-55mm (C)	50mm (B)	38mm (C)	MANUAL (M)	

AHR250ABM1	✓				✓		✓		✓
AHR250ABH1	✓				✓			✓	✓

AHR250BBM		✓			✓		✓		
AHR250BBH		✓			✓			✓	
AHR250BCM1		✓				✓	✓		✓
AHR250BCH1		✓				✓		✓	✓
AHR250CCM				✓		✓	✓		
AHR250CCH				✓		✓		✓	