Repair Instructions



XD60[™], XD70[™], XD80[™] Power Rewind Hose Reels Repair

332631B

ΕN

Instructions for repairing hose reels used in applications requiring long range dispense, transfer or evacuation of motor oils, diesel fuels*, lubricants, water, waste oil and air.

Not for use with gasoline or other flammable fluids. Not approved for use in hazardous or explosive atmosphere locations. For professional use only.

*less than 20% biofuel content

Models

(see page 3 for addition model information)



Important Safety Instructions

Read all warnings and instructions in this manual and the XD60, XD70 and XD80 Power Rewind Hose Reels Operation Manual. Save all instructions.

Related Manuals:

3A2630 - XD60, XD70, XD80 Power Rewind Hose Reel Instructions

333087 - XD60 Power Rewind Hose Reel for Portable Hydraulic Power Packs Instructions

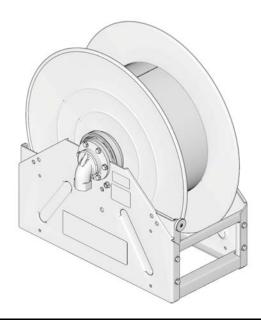


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Models

Understanding the Motor-less Reel Model Number

Motor-less reels are assigned a model number. This number identifies the frame size, port size and pressure associated with that reel. For example an XD 6010LP model is an XD Model hose reel, size 60 frame, 1 in. port, low pressure.

- XD Frame Sizes: 60, 70, 80
- Port Sizes: 10 = 1 in. / 15 = 1.5 in. / 20 = 2 in.
- Pressures: LP Low Pressure applications such as Air/Water, Fuel, and Waste Oil Evacuation typically under 600 psi (4.1 MPa, 41 bar) / MP Medium Pressure applications such as Oil Dispense typically under 3000 psi (20.7 MPa, 207 bar)

XD 60, 70, 80 Motor-less Reels

NOTE: All reels have NPT inlets/outlets

Part No.	XD 60/70/80	Color	Maximum Wo	rking Pressure
Part No.	Models	000	psi	MPa (bar)
24T104	XD 6010LP	Blue	600	4.1 (41 bar)
24T105	XD 6010LP	Yellow	600	4.1 (41 bar)
24T106	XD 6010LP	White	600	4.1 (41 bar)
24T107	XD 6010MP	Blue	3000	20.7 (207 bar)
24T108	XD 6010MP	Yellow	3000	20.7 (207 bar)
24T109	XD 6010MP	White	3000	20.7 (207 bar)
24T110	XD 7010LP	Blue	600	4.1 (41 bar)
24T111	XD 7010LP	Yellow	600	4.1 (41 bar)
24T112	XD 7010LP	White	600	4.1 (41 bar)
24T113	XD 7010MP	Blue	3000	20.7 (207 bar)
24T114	XD 7010MP	Yellow	3000	20.7 (207 bar)
24T115	XD 7010MP	White	3000	20.7 (207 bar)
24T116	XD 7015LP	Blue	600	4.1 (41 bar)
24T117	XD 7015LP	Yellow	600	4.1 (41 bar)
24T118	XD 7015LP	White	600	4.1 (41 bar)
24T119	XD 7020LP	Blue	600	4.1 (41 bar)
24T120	XD 7020LP	Yellow	600	4.1 (41 bar)
24T121	XD 7020LP	White	600	4.1 (41 bar)
24T122	XD 8010LP	Blue	600	4.1 (41 bar)
24T123	XD 8010LP	Yellow	600	4.1 (41 bar)
24T124	XD 8010LP	White	600	4.1 (41 bar)
24T125	XD 8010MP	Blue	3000	20.7 (207 bar)
24T126	XD 8010MP	Yellow	3000	20.7 (207 bar)
24T127	XD 8010MP	White	3000	20.7 (207 bar)
24T128	XD 8015LP	Blue	600	4.1 (41 bar)
24T129	XD 8015LP	Yellow	600	4.1 (41 bar)
24T130	XD 8015LP	White	600	4.1 (41 bar)
24T131	XD 8020LP	Blue	600	4.1 (41 bar)
24T132	XD 8020LP	Yellow	600	4.1 (41 bar)
24T133	XD 8020LP	White	600	4.1 (41 bar)

Model XD 6010 Part Numbers: Air/Water, Fuel and Waste Oil Evacuation Applications

Part No.	Power	CF	Color		m Working essure	Recommended Hose Sizes*			
	Source			PSI	MPa (bar)	inch diameter x feet			
24R404	12 VDC	Χ	Blue	600	4.1 (41 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50◆
24R405	12 VDC	Χ	Yellow	600	4.1 (41 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50◆
24R406	12 VDC	Х	White	600	4.1 (41 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50◆
24R407	24 VDC	Х	Blue	600	4.1 (41 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50◆
24R408	24 VDC	Х	Yellow	600	4.1 (41 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50◆
24R409	24 VDC	Х	White	600	4.1 (41 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50◆
24R410	115 VAC	NA	Blue	600	4.1 (41 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50◆
24R412	115 VAC	NA	Yellow	600	4.1 (41 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50◆
24R413	115 VAC	NA	White	600	4.1 (41 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50◆
24T207	230 VAC	Х	Blue	600	4.1 (41 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50◆
24T208	230 VAC	Χ	Yellow	600	4.1 (41 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50◆
24T209	230 VAC	Χ	White	600	4.1 (41 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50◆
24R414	Hydraulic	Χ	Blue	600	4.1 (41 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50◆
24R415	Hydraulic	Χ	Yellow	600	4.1 (41 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50◆
24R416	Hydraulic	Х	White	600	4.1 (41 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50◆
24R419	Pneumatic	Х	Blue	600	4.1 (41 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50◆
24R420	Pneumatic	Х	Yellow	600	4.1 (41 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50◆
24R421	Pneumatic	Х	White	600	4.1 (41 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50◆

^{*} Always use the correct hose for your application. Adhere to hose manufacturer's recommendations to ensure you are using the correct hose.

♦ Only hose size recommended for use with Waste Oil Evacuation Applications.

Model XD 6010 Part Numbers: Oil and Grease Applications

Part No.	Power	CE	Color		ım Working essure	Recommended Hose Sizes*			
	Source			PSI	MPa (bar)	inch diameter x feet			
24R422	12 VDC	Х	Blue	3000	20.7 (207 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50†
24R423	12 VDC	Х	Yellow	3000	20.7 (207 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50†
24R424	12 VDC	Х	White	3000	20.7 (207 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50†
24R425	24 VDC	Х	Blue	3000	20.7 (207 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50†
24R426	24 VDC	Х	Yellow	3000	20.7 (207 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50†
24R427	24 VDC	Х	White	3000	20.7 (207 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50†
24R428	115 VAC	NA	Blue	3000	20.7 (207 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50†
24R429	115 VAC	NA	Yellow	3000	20.7 (207 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50†
24R430	115 VAC	NA	White	3000	20.7 (207 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50†
24T210	230 VAC	Х	Blue	3000	20.7 (207 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50†
24T211	230 VAC	Х	Yellow	3000	20.7 (207 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50†
24T212	230 VAC	Х	White	3000	20.7 (207 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50†
24R431	Hydraulic	Х	Blue	3000	20.7 (207 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50†
24R432	Hydraulic	Х	Yellow	3000	20.7 (207 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50†
24R433	Hydraulic	Х	White	3000	20.7 (207 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50†
24R434	Pneumatic	Х	Blue	3000	20.7 (207 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50†
24R435	Pneumatic	Х	Yellow	3000	20.7 (207 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50†
24R436	Pneumatic	Х	White	3000	20.7 (207 bar)	1/2 x 100	3/4 x 75	3/4 x 100	1 x 50†

^{*} Always use the correct hose for your application. Adhere to hose manufacturer's recommendations to ensure you are using the correct hose.

[†] Only hose recommended for use in grease applications. Minimum operating temperature 0°F (-17.8°C).

Model XD 7010 Part Numbers: Air/Water and Fuel Applications

Part No.	Part No.	CE	Color		ım Working essure	Recommended Hose Sizes* inch diameter x feet	
	Source			PSI	MPa (bar)		
24R437	12 VDC	Х	Blue	600	4.1 (41 bar)	1 x 75	1 x 100
24R438	12 VDC	Х	Yellow	600	4.1 (41 bar)	1 x 75	1 x 100
24R439	12 VDC	Х	White	600	4.1 (41 bar)	1 x 75	1 x 100
24R440	24 VDC	Х	Blue	600	4.1 (41 bar)	1 x 75	1 x 100
24R441	24 VDC	Х	Yellow	600	4.1 (41 bar)	1 x 75	1 x 100
24R442	24 VDC	Х	White	600	4.1 (41 bar)	1 x 75	1 x 100
24R443	115 VAC	NA	Blue	600	4.1 (41 bar)	1 x 75	1 x 100
24R444	115 VAC	NA	Yellow	600	4.1 (41 bar)	1 x 75	1 x 100
24R445	115 VAC	NA	White	600	4.1 (41 bar)	1 x 75	1 x 100
24T213	230 VAC	Х	Blue	600	4.1 (41 bar)	1 x 75	1 x 100
24T215	230 VAC	Х	Yellow	600	4.1 (41 bar)	1 x 75	1 x 100
24T216	230 VAC	Х	White	600	4.1 (41 bar)	1 x 75	1 x 100
24R446	Hydraulic	Х	Blue	600	4.1 (41 bar)	1 x 75	1 x 100
24R447	Hydraulic	Х	Yellow	600	4.1 (41 bar)	1 x 75	1 x 100
24R448	Hydraulic	Х	White	600	4.1 (41 bar)	1 x 75	1 x 100
24R449	Pneumatic	Х	Blue	600	4.1 (41 bar)	1 x 75	1 x 100
24R450	Pneumatic	Х	Yellow	600	4.1 (41 bar)	1 x 75	1 x 100
24R451	Pneumatic	Х	White	600	4.1 (41 bar)	1 x 75	1 x 100

^{*} Always use the correct hose for your application. Adhere to hose manufacturer's recommendations to ensure you are using the correct hose.

Model XD 7010 Part Numbers: Oil

Part No.	Power	CE	Color		ım Working essure		ed Hose Sizes*
	Source	-	00.0.	PSI	MPa (bar)	inch diam	neter x feet
24R452	12 VDC	Χ	Blue	3000	20.7 (207 bar)	1 x 75	1 x 100
24R453	12 VDC	Х	Yellow	3000	20.7 (207 bar)	1 x 75	1 x 100
24R454	12 VDC	Χ	White	3000	20.7 (207 bar)	1 x 75	1 x 100
24R455	24 VDC	Х	Blue	3000	20.7 (207 bar)	1 x 75	1 x 100
24R456	24 VDC	Х	Yellow	3000	20.7 (207 bar)	1 x 75	1 x 100
24R457	24 VDC	Х	White	3000	20.7 (207 bar)	1 x 75	1 x 100
24R458	115 VAC	NA	Blue	3000	20.7 (207 bar)	1 x 75	1 x 100
24R459	115 VAC	NA	Yellow	3000	20.7 (207 bar)	1 x 75	1 x 100
24R460	115 VAC	NA	White	3000	20.7 (207 bar)	1 x 75	1 x 100
24T218	230 VAC	Χ	Blue	3000	20.7 (207 bar)	1 x 75	1 x 100
24T219	230 VAC	Χ	Yellow	3000	20.7 (207 bar)	1 x 75	1 x 100
24T220	230 VAC	Х	White	3000	20.7 (207 bar)	1 x 75	1 x 100
24R461	Hydraulic	Х	Blue	3000	20.7 (207 bar)	1 x 75	1 x 100
24R462	Hydraulic	Х	Yellow	3000	20.7 (207 bar)	1 x 75	1 x 100
24R463	Hydraulic	Х	White	3000	20.7 (207 bar)	1 x 75	1 x 100
24R464	Pneumatic	Х	Blue	3000	20.7 (207 bar)	1 x 75	1 x 100
24R465	Pneumatic	Х	Yellow	3000	20.7 (207 bar)	1 x 75	1 x 100
24R466	Pneumatic	Х	White	3000	20.7 (207 bar)	1 x 75	1 x 100

^{*} Always use the correct hose for your application. Adhere to hose manufacturer's recommendations to ensure you are using the correct hose.

Model XD 7015 Part Numbers: Fuel and Waste Oil Evacuation Applications

Part No.	Power	CE	Color		m Working ssure	Recommended Hose Sizes*			
	Source			PSI	MPa (bar)	inch diameter x feet			
24R503	12 VDC	Χ	Blue	600	4.1 (41 bar)	1.25 x 35	1.25 x 50	1.5 x 50	1.5 x 65‡
24R504	12 VDC	Χ	Yellow	600	4.1 (41 bar)	1.25 x 35	1.25 x 50	1.5 x 50	1.5 x 65‡
24R505	12 VDC	Χ	White	600	4.1 (41 bar)	1.25 x 35	1.25 x 50	1.5 x 50	1.5 x 65‡
24R506	24 VDC	Χ	Blue	600	4.1 (41 bar)	1.25 x 35	1.25 x 50	1.5 x 50	1.5 x 65‡
24R507	24 VDC	Χ	Yellow	600	4.1 (41 bar)	1.25 x 35	1.25 x 50	1.5 x 50	1.5 x 65‡
24R508	24 VDC	Χ	White	600	4.1 (41 bar)	1.25 x 35	1.25 x 50	1.5 x 50	1.5 x 65‡
24R509	115 VAC	NA	Blue	600	4.1 (41 bar)	1.25 x 35	1.25 x 50	1.5 x 50	1.5 x 65‡
24R510	115 VAC	NA	Yellow	600	4.1 (41 bar)	1.25 x 35	1.25 x 50	1.5 x 50	1.5 x 65‡
24R511	115 VAC	NA	White	600	4.1 (41 bar)	1.25 x 35	1.25 x 50	1.5 x 50	1.5 x 65‡
24T221	230 VAC	Х	Blue	600	4.1 (41 bar)	1.25 x 35	1.25 x 50	1.5 x 50	1.5 x 65‡
24T222	230 VAC	Χ	Yellow	600	4.1 (41 bar)	1.25 x 35	1.25 x 50	1.5 x 50	1.5 x 65‡
24T223	230 VAC	Х	White	600	4.1 (41 bar)	1.25 x 35	1.25 x 50	1.5 x 50	1.5 x 65‡
24R512	Hydraulic	Χ	Blue	600	4.1 (41 bar)	1.25 x 35	1.25 x 50	1.5 x 50	1.5 x 65‡
24R513	Hydraulic	Х	Yellow	600	4.1 (41 bar)	1.25 x 35	1.25 x 50	1.5 x 50	1.5 x 65‡
24R515	Hydraulic	Χ	White	600	4.1 (41 bar)	1.25 x 35	1.25 x 50	1.5 x 50	1.5 x 65‡
24R516	Pneumatic	Χ	Blue	600	4.1 (41 bar)	1.25 x 35	1.25 x 50	1.5 x 50	1.5 x 65‡
24R517	Pneumatic	Х	Yellow	600	4.1 (41 bar)	1.25 x 35	1.25 x 50	1.5 x 50	1.5 x 65‡
24R518	Pneumatic	Х	White	600	4.1 (41 bar)	1.25 x 35	1.25 x 50	1.5 x 50	1.5 x 65‡

^{*} Always use the correct hose for your application. Adhere to hose manufacturer's recommendations to ensure you are using the correct hose.

‡Not recommended for use with Waste Oil Evacuation Applications.

Model XD 7020 Part Numbers: Fuel Applications

Part No.	Power	CE	Color		m Working essure	Recommended Hose Sizes*
	Source			PSI	MPa (bar)	inch diameter x feet
24T011	12 VDC	Χ	Blue	600	4.1 (41 bar)	2 x 33
24T012	12 VDC	Χ	Yellow	600	4.1 (41 bar)	2 x 33
24T013	12 VDC	Х	White	600	4.1 (41 bar)	2 x 33
24T014	24 VDC	Χ	Blue	600	4.1 (41 bar)	2 x 33
24T015	24 VDC	Х	Yellow	600	4.1 (41 bar)	2 x 33
24T016	24 VDC	Χ	White	600	4.1 (41 bar)	2 x 33
24T017	115 VAC	NA	Blue	600	4.1 (41 bar)	2 x 33
24T018	115 VAC	NA	Yellow	600	4.1 (41 bar)	2 x 33
24T019	115 VAC	NA	White	600	4.1 (41 bar)	2 x 33
24T224	230 VAC	Х	Blue	600	4.1 (41 bar)	2 x 33
24T225	230 VAC	Χ	Yellow	600	4.1 (41 bar)	2 x 33
24T226	230 VAC	Χ	White	600	4.1 (41 bar)	2 x 33
24T020	Hydraulic	Χ	Blue	600	4.1 (41 bar)	2 x 33
24T021	Hydraulic	Χ	Yellow	600	4.1 (41 bar)	2 x 33
24T022	Hydraulic	Х	White	600	4.1 (41 bar)	2 x 33
24T023	Pneumatic	Х	Blue	600	4.1 (41 bar)	2 x 33
24T024	Pneumatic	Х	Yellow	600	4.1 (41 bar)	2 x 33
24T025	Pneumatic	Х	White	600	4.1 (41 bar)	2 x 33

^{*} Always use the correct hose for your application. Adhere to hose manufacturer's recommendations to ensure you are using the correct hose.

Model XD 8010 Part Numbers: Air/Water and Fuel Applications

Part No.	Power	CE	Color		m Working ssure	Recommended Hose Sizes*
	Source			PSI	MPa (bar)	inch diameter x feet
24R519	12 VDC	Χ	Blue	600	4.1 (41 bar)	1 x 150
24R520	12 VDC	Х	Yellow	600	4.1 (41 bar)	1 x 150
24R521	12 VDC	Χ	White	600	4.1 (41 bar)	1 x 150
24R522	24 VDC	Х	Blue	600	4.1 (41 bar)	1 x 150
24R523	24 VDC	Χ	Yellow	600	4.1 (41 bar)	1 x 150
24R524	24 VDC	Χ	White	600	4.1 (41 bar)	1 x 150
24R525	115 VAC	NA	Blue	600	4.1 (41 bar)	1 x 150
24R526	115 VAC	NA	Yellow	600	4.1 (41 bar)	1 x 150
24R527	115 VAC	NA	White	600	4.1 (41 bar)	1 x 150
24T227	230 VAC	Χ	Blue	600	4.1 (41 bar)	1 x 150
24T228	230 VAC	Х	Yellow	600	4.1 (41 bar)	1 x 150
24T229	230 VAC	Χ	White	600	4.1 (41 bar)	1 x 150
24R528	Hydraulic	Χ	Blue	600	4.1 (41 bar)	1 x 150
24R529	Hydraulic	Χ	Yellow	600	4.1 (41 bar)	1 x 150
24R530	Hydraulic	Χ	White	600	4.1 (41 bar)	1 x 150
24R531	Pneumatic	Χ	Blue	600	4.1 (41 bar)	1 x 150
24R532	Pneumatic	Χ	Yellow	600	4.1 (41 bar)	1 x 150
24R533	Pneumatic	Χ	White	600	4.1 (41 bar)	1 x 150

^{*} Always use the correct hose for your application. Adhere to hose manufacturer's recommendations to ensure you are using the correct hose.

Model XD 8010 Part Numbers: Oil Applications

Part No.	Power	CE	Color	Maximum Working Pressure		Recommended Hose Sizes*
	Source	-	00.0.	PSI	MPa (bar)	inch diameter x feet
24R534	12 VDC	Х	Blue	3000	20.7 (207 bar)	1 x 150
24R535	12 VDC	Χ	Yellow	3000	20.7 (207 bar)	1 x 150
24R536	12 VDC	Χ	White	3000	20.7 (207 bar)	1 x 150
24R537	24 VDC	Χ	Blue	3000	20.7 (207 bar)	1 x 150
24R538	24 VDC	Χ	Yellow	3000	20.7 (207 bar)	1 x 150
24R539	24 VDC	Χ	White	3000	20.7 (207 bar)	1 x 150
24R540	115 VAC	NA	Blue	3000	20.7 (207 bar)	1 x 150
24R541	115 VAC	NA	Yellow	3000	20.7 (207 bar)	1 x 150
24R542	115 VAC	NA	White	3000	20.7 (207 bar)	1 x 150
24T230	230 VAC	Χ	Blue	3000	20.7 (207 bar)	1 x 150
24T231	230 VAC	Χ	Yellow	3000	20.7 (207 bar)	1 x 150
24T232	230 VAC	Χ	White	3000	20.7 (207 bar)	1 x 150
24R543	Hydraulic	Χ	Blue	3000	20.7 (207 bar)	1 x 150
24R544	Hydraulic	Χ	Yellow	3000	20.7 (207 bar)	1 x 150
24R545	Hydraulic	Χ	White	3000	20.7 (207 bar)	1 x 150
24R546	Pneumatic	Χ	Blue	3000	20.7 (207 bar)	1 x 150
24R547	Pneumatic	Χ	Yellow	3000	20.7 (207 bar)	1 x 150
24R548	Pneumatic	Χ	White	3000	20.7 (207 bar)	1 x 150

^{*} Always use the correct hose for your application. Adhere to hose manufacturer's recommendations to ensure you are using the correct hose.

Model XD 8015 Part Numbers: Fuel Applications

Part No.	Power	CE	Color		n Working ssure		d Hose Sizes*
	Source			PSI	MPa (bar)	inch diam	eter x feet
24R549	12 VDC	Χ	Blue	600	4.1 (41 bar)	1.5 x 75	1.5 x 100
24R550	12 VDC	Χ	Yellow	600	4.1 (41 bar)	1.5 x 75	1.5 x 100
24R551	12 VDC	Χ	White	600	4.1 (41 bar)	1.5 x 75	1.5 x 100
24R552	24 VDC	Χ	Blue	600	4.1 (41 bar)	1.5 x 75	1.5 x 100
24R553	24 VDC	Χ	Yellow	600	4.1 (41 bar)	1.5 x 75	1.5 x 100
24R554	24 VDC	Χ	White	600	4.1 (41 bar)	1.5 x 75	1.5 x 100
24R555	115 VAC	NA	Blue	600	4.1 (41 bar)	1.5 x 75	1.5 x 100
24R556	115 VAC	NA	Yellow	600	4.1 (41 bar)	1.5 x 75	1.5 x 100
24R557	115 VAC	NA	White	600	4.1 (41 bar)	1.5 x 75	1.5 x 100
24T233	230 VAC	Χ	Blue	600	4.1 (41 bar)	1.5 x 75	1.5 x 100
24T234	230 VAC	Χ	Yellow	600	4.1 (41 bar)	1.5 x 75	1.5 x 100
24T235	230 VAC	Χ	White	600	4.1 (41 bar)	1.5 x 75	1.5 x 100
24R558	Hydraulic	Χ	Blue	600	4.1 (41 bar)	1.5 x 75	1.5 x 100
24R559	Hydraulic	Χ	Yellow	600	4.1 (41 bar)	1.5 x 75	1.5 x 100
24R560	Hydraulic	Χ	White	600	4.1 (41 bar)	1.5 x 75	1.5 x 100
24R561	Pneumatic	Х	Blue	600	4.1 (41 bar)	1.5 x 75	1.5 x 100
24R562	Pneumatic	Х	Yellow	600	4.1 (41 bar)	1.5 x 75	1.5 x 100
24R563	Pneumatic	Χ	White	600	4.1 (41 bar)	1.5 x 75	1.5 x 100

^{*} Always use the correct hose for your application. Adhere to hose manufacturer's recommendations to ensure you are using the correct hose.

Model XD 8020 Part Numbers: Fuel Applications

Part No.	Power	CE	Color	Maximum Working Pressure		Recommended Hose Sizes*
	Source			PSI	MPa (bar)	inch diameter x feet
24R564	12 VDC	Х	Blue	600	4.1 (41 bar)	2 x 50
24R565	12 VDC	Х	Yellow	600	4.1 (41 bar)	2 x 50
24R566	12 VDC	Χ	White	600	4.1 (41 bar)	2 x 50
24R567	24 VDC	Х	Blue	600	4.1 (41 bar)	2 x 50
24R568	24 VDC	Χ	Yellow	600	4.1 (41 bar)	2 x 50
24R569	24 VDC	Х	White	600	4.1 (41 bar)	2 x 50
24R570	115 VAC	NA	Blue	600	4.1 (41 bar)	2 x 50
24R571	115 VAC	NA	Yellow	600	4.1 (41 bar)	2 x 50
24R572	115 VAC	NA	White	600	4.1 (41 bar)	2 x 50
24T236	230 VAC	Χ	Blue	600	4.1 (41 bar)	2 x 50
24T237	230 VAC	Х	Yellow	600	4.1 (41 bar)	2 x 50
24T238	230 VAC	Χ	White	600	4.1 (41 bar)	2 x 50
24R573	Hydraulic	Χ	Blue	600	4.1 (41 bar)	2 x 50
24R574	Hydraulic	Χ	Yellow	600	4.1 (41 bar)	2 x 50
24R575	Hydraulic	Χ	White	600	4.1 (41 bar)	2 x 50
24R576	Pneumatic	Χ	Blue	600	4.1 (41 bar)	2 x 50
24R577	Pneumatic	Χ	Yellow	600	4.1 (41 bar)	2 x 50
24R578	Pneumatic	Χ	White	600	4.1 (41 bar)	2 x 50

^{*} Always use the correct hose for your application. Adhere to hose manufacturer's recommendations to ensure you are using the correct hose.

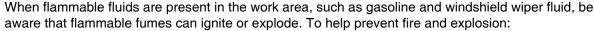
Warnings

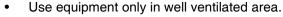
The following warnings are for the setup, use, grounding, maintenance, and repair of this equipment. The exclamation point symbol alerts you to a general warning and the hazard symbols refer to procedure-specific risks. When these symbols appear in the body of this manual or on warning labels, refer back to these Warnings. Product-specific hazard symbols and warnings not covered in this section may appear throughout the body of this manual where applicable.

AWARNING



FIRE AND EXPLOSION HAZARD





- Eliminate all ignition sources, such as cigarettes and portable electric lamps.
- Keep work area free of debris, including rags and spilled or open containers of solvent and gasoline.
- Do not plug or unplug power cords or turn lights on or off when flammable fumes are present.
- Ground all equipment in the work area.
- Use only grounded hoses.
- Stop operation immediately if static sparking occurs or you feel a shock. Do not use equipment until you identify and correct the problem.
- Keep a working fire extinguisher in the work area.



ELECTRIC SHOCK HAZARD

This equipment must be grounded. Improper grounding, setup, or usage of the system can cause electric shock.



- Turn off and disconnect power at main switch before disconnecting any cables and before servicing
 or installing equipment.
- Connect only to grounded power source.
- All electrical wiring must be done by a qualified electrician and comply with all local codes and regulations.



SKIN INJECTION HAZARD

High-pressure fluid from dispensing device, hose leaks, or ruptured components will pierce skin. This may look like just a cut, but it is a serious injury that can result in amputation. **Get immediate surgical treatment.**



• Do not point dispensing device at anyone or at any part of the body.



- Do not stop or deflect leaks with your hand, body, glove, or rag.
- Follow the Pressure Relief Procedure when you stop dispensing and before cleaning, checking, or servicing equipment.
- Tighten all fluid connections before operating the equipment.
- Check hoses and couplings daily. Replace worn or damaged parts immediately.

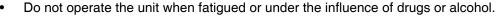


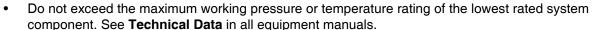
WARNING



EQUIPMENT MISUSE HAZARD

Misuse can cause death or serious injury.





- Use fluids and solvents that are compatible with equipment wetted parts. See Technical Data in all equipment manuals. Read fluid and solvent manufacturer's warnings. For complete information about your material, request MSDS from distributor or retailer.
- Do not leave the work area while equipment is energized or under pressure.
- Turn off all equipment and follow the Pressure Relief Procedure when equipment is not in use.
- Check equipment daily. Repair or replace worn or damaged parts immediately with genuine manufacturer's replacement parts only.
- Do not alter or modify equipment. Alterations or modifications may void agency approvals and create safety hazards.
- Make sure all equipment is rated and approved for the environment in which you are using it.
- Use equipment only for its intended purpose. Call your distributor for information.
- Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces.
- Do not kink or over bend hoses or use hoses to pull equipment.
- Keep children and animals away from work area.
- Comply with all applicable safety regulations.



PRESSURIZED ALUMINUM PARTS HAZARD

Use of fluids that are incompatible with aluminum in pressurized equipment can cause serious chemical reaction and equipment rupture. Failure to follow this warning can result in death, serious injury, or property damage.

- Do not use 1,1,1-trichloroethane, methylene chloride, other halogenated hydrocarbon solvents or fluids containing such solvents.
- Many other fluids may contain chemicals that can react with aluminum. Contact your material supplier for compatibility.



MOVING PARTS HAZARD

Moving parts can pinch, cut or amputate fingers and other body parts.



- Keep clear of moving parts.
- Do not operate equipment with protective guards or covers removed.
- Pressurized equipment can start without warning. Before checking, moving, or servicing equipment, follow the Pressure Relief Procedure and disconnect all power sources.



TOXIC FLUID OR FUMES HAZARD

Toxic fluids or fumes can cause serious injury or death if splashed in the eyes or on skin, inhaled, or

- Read MSDSs to know the specific hazards of the fluids you are using.
- Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines.



PERSONAL PROTECTIVE EQUIPMENT

Wear appropriate protective equipment when in the work area to help prevent serious injury, including eye injury, hearing loss, inhalation of toxic fumes, and burns. This protective equipment includes but is not limited to:

- Protective eye wear, and hearing protection.
- Respirators, protective clothing, and gloves as recommended by the fluid and solvent manufacturer













General Repair Information

- Always use all the new parts included in repair kit. Do not reuse old parts.
- Unless otherwise indicated, reference numbers used in the following instructions refer to the Parts List beginning on page 48 and Parts Drawing, page
- See Repair and Accessory Kits, page 49 or contact Graco Customer Service to identify the kit needed for your repair.
- All instructions assume the hose reel has been installed and is in service.

Pressure Relief Procedure



Follow the Pressure Relief Procedure whenever you see this symbol.











This equipment stays pressurized until pressure is manually relieved. To help prevent serious injury from pressurized fluid, such as skin injection, splashing fluid and moving parts, follow the Pressure Relief Procedure when you stop dispensing and before cleaning, checking, or servicing the equipment.

- Turn off power supply to fluid pump.
- Isolate the supply pump fluid supply line by turning off (closing) the fluid shut off valve.
- 3. Open the dispensing valve until pressure is fully relieved.

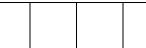
If you suspect the dispensing valve or extension is clogged or that pressure has not been fully relieved after following the steps above, VERY SLOWLY loosen coupler or hose end coupling to relieve pressure gradually, then loosen completely. Clear the obstruction.

Grounding









The reel must be bonded (grounded) directly to the truck (Fig. 1). For non-mobile installation locations the reel must be grounded. Grounding reduces the risk of static shock due to static build up on the equipment.

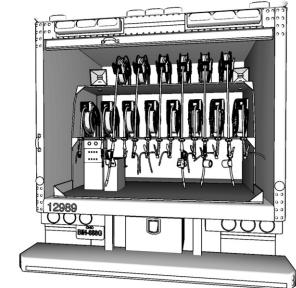


Fig. 1

Troubleshooting











Problem	Cause	Solution
Button or valve is actuated, reel does not operate	External power source is not energized	 Check that all power connections are made and in working condition. Tighten any loose connections. Replace broken or damaged parts. Turn on power supply.
	Power circuits are interrupted or dam-	Check connections for proper rout-
	aged	ing.
		Replace broken or damaged parts, fuses and/or wires.
	Hose or reel spool is jammed	Check that spool will rotate when using your hand to turn it. Unwind hose from spool and use your hand to guide it back onto the spool to avoid stacking problems.
	Motor is not operating	Ensure power is available. Replace motor module. See Motor Module Repair and Replacement, page 48.
Poor Retraction	Pneumatic/Hydraulic Reels only: Low supply pressure and flow	Adjust pressure and flow. Verify all lines are correctly sized. See Technical Data page 56.
	Brake too tight	Loosen brake tension.
	Hose too stiff	Use correct hose for application.
		NOTE: Wrapped hoses are more difficult to retract than smooth hoses.
	Excessive swivel friction and hose bending torque	Reduce dispense fluid pressure.
	Hose or reel spool is jammed	Check that spool will rotate when using your hand to turn it. Unwind hose from spool and use your hand to guide it back onto the spool to avoid stacking problems.
	Spool bearing failure	Rebuild or replace inlet bearing and/or power shaft bearing. See Step 3, Install Bearing, page 29.
	Dispense valve dragging while retracting hose	Walk dispense valve back to reel before retracting hose.
Excessive Hose Extension Forces	Brake is too tight	Loosen brake tension.
	Excessive swivel friction	Reduce dispense fluid pressure.

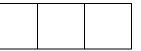
Problem	Cause	Solution
Oil Hoses Only: Pressure increases while winding hose onto reel	Wrapping hose on spool bends hose and increases pressure inside hose	Install pressure relief valve.
Fluid leakage from inlet housing or weep hole	Worn inlet seal	Replace inlet seal. See Step 6, page 30 for Inlet / Inlet Seal and O-Ring Replacement instructions.
	Loose inlet hose	Tighten inlet hose connection
Fluid leakage from outlet seal	Seal failed	Replace outlet seal. See Step 13, page 35 for Outlet / Outlet Seal Replacement instructions.
	Loose service hose	Tighten service hose connection

Inlet Seal Replacement









- Relieve pressure, page 16.
- 2. Remove inlet (6).

NOTE: Notice the position of the inlet to ensure correct orientation of this part for reassembly.

a. On the inlet side, remove bolts (4) and inlet (6) (Fig. 2).

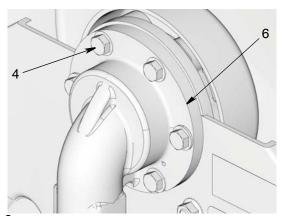


Fig. 2

3. Visually inspect inlet seal (7a) and o-ring (7b). Use your finger to feel surface of seal and o-ring for nicks. Replace these parts if damaged (Fig. 3).

To replace seals:

Use a pick to remove the white seal (7a) and black o-ring (7b) from the inlet assembly (6) (Fig. 3).

NOTICE

Be careful not to scratch or score the surface of the inlet (6) when using the pick to remove the seal (7a) and o-ring (7b). Damage to this surface could result in fluid leakage.

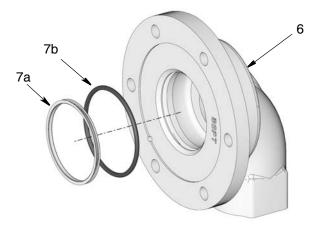


Fig. 3

- b. Apply a thin layer of grease to the black o-ring (7b) and white seal (7a).
- c. Install the new black o-ring (7b) first. Use your fingers to press it into the groove located inside the neck of the inlet assembly (6) (Fig. 4).

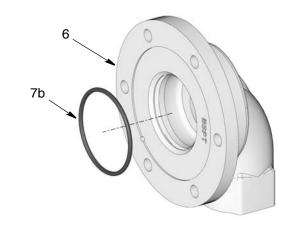


Fig. 4

d. Install the white seal (7a) over the o-ring (7b) (Fig. 5).

NOTE: Folding the seal (7a) into a U-shape before installation will help seat it correctly inside the inlet assembly. Then use your fingers to press the seal into the groove.

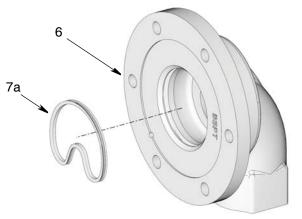


Fig. 5

NOTE: Be careful when installing these parts that they are lying flat inside the groove and do not have any kinks or bends which could result in fluid leakage due to a poorly seated seal.

- 4. Install inlet (6) on hose reel.
 - a. Position inlet (6) in the desired orientation on the base. (Fig. 6).

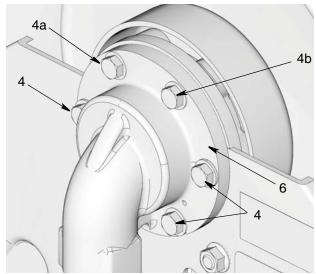
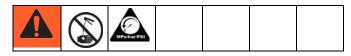


Fig. 6

- First install the top 2 bolts (4a and 4b) as shown in Fig. 6 through frame and inlet (6). Tighten bolts just enough to hold everything in place.
- c. Install the remaining bolts (4) (Fig. 6). Hand tighten and then torque all bolts to 13-16 ft. lbs (17.6-20.3 N•m).

Motor Module Replacement



1. Disconnect hose reel from power source.

Electric Powered Motors



Disconnect power to hose reel at main power source.

Pneumatic Powered Motors



- Isolate the air supply line to the motor by turning off (closing) the supply, bleed-type master air valve.
- Activate air control lever to bleed off any additional remaining pressure.
- c. Disconnect air supply hose from reel motor.

Hydraulic Powered Motors



- a. Power down hydraulic power source.
- b. Isolate hydraulic power source from hydraulic control by closing isolation valve.
- c. Activate hydraulic control to bleed off any additional pressure.

- d. If free-spool mode is needed either:
- Disconnect the hydraulic supply and return lines from the reel motor.

OR

- Activate the free-spool circuit. Hydraulic power is not required to activate the free-spool circuit. It can be accomplished by energizing the free-spool solenoid on the hydraulic control module or placing the manual valve in the free-spool position.
- 2. Relieve pressure, page 16.
- 3. Remove motor module (26) (Fig. 7).
 - a. Remove bolts (9) holding motor module (26) to reel.

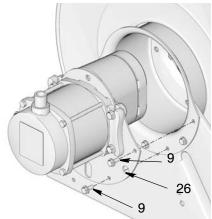


Fig. 7: Electric Motor Shown

b. Remove motor module (26) from hose reel.

- 4. Install new motor module (26).
 - a. Ensure splined shaft (26a) on motor module (26) is greased with a high pressure lithium grease.

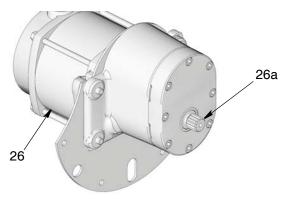


Fig. 8: Electric Motor Shown

- b. Insert shaft of motor module into power shaft (20). Rotate spool as needed to align shaft splines (Fig. 9).
- c. Install 4 mounting bolts (9) finger tight only.
- d. Support end of motor to align sheet metal mounting plate (26b) on motor module (26) to reel frame.

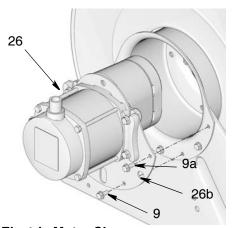


Fig. 9: Electric Motor Shown

- e. Tighten bolts (9a), top two, first. Then tighten bottom two bolts (9).
- f. Torque bolts to 25-35 ft. lbs (34-47.5 N.m).
- 5. Connect motor power. See Powering Motor Module and Controller instructions, page 38.

Complete Hose Reel Disassembly



Always wear heavy gloves to protect your hands from being cut on the hose reel.

NOTE:

 Throughout these instructions the inlet-side refers to the side of the spool the fluid inlet (6) is installed.
 The motor-side refers to the side of the spool the motor module (26) is installed.

1. Flush fluid from reel and hose.

- a. Remove dispense valve from end of hose.
- b. Place end of hose in a waste container (Fig. 10).



Fig. 10

c. Blow out entire lubricant supply line with air (Fig. 11).



Fig. 11

d. Cap end of hose to prevent fluid spills.

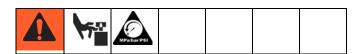
2. Disconnect hose reel from power source.

Electric Powered Motors



Disconnect power to hose reel at main power source.

Pneumatic Powered Motors



- a. Isolate the air supply line to the motor by turning off (closing) the supply, bleed-type master air valve.
- b. Activate air control lever to bleed off any additional remaining pressure.
- c. Disconnect air supply hose from reel motor.

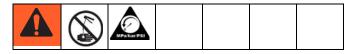
Hydraulic Powered Motors



- a. Power down hydraulic power source.
- b. Isolate hydraulic power source from hydraulic control by closing isolation valve.
- c. Activate hydraulic control to bleed off any additional pressure.
- d. If free-spool mode is needed either:
- Disconnect the hydraulic supply and return lines from the reel motor.

OR

Activate the free-spool circuit. Hydraulic power
is not required to activate the free-spool circuit.
It can be accomplished by energizing the
free-spool solenoid on the hydraulic control
module or placing the manual valve in the
free-spool position.



- 3. Relieve pressure, page 16.
- 4. Disconnect hose and union adapter (100a) from inlet (6) (Fig. 12).

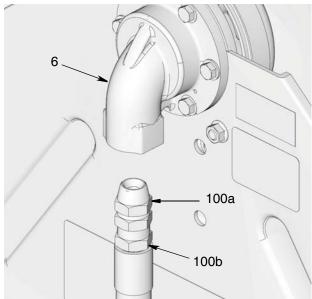


Fig. 12

5. Remove brake tension by turning the brake knob (41) to the left to decrease / loosen brake tension (Fig. 13).



Fig. 13

6. Remove Hose Reel From Service.



Always wear heavy gloves to protect your hands from being cut on the hose reel.

The hose reel must be taken out of service to perform some of the repair and service procedures described in this manual.

For procedures that do not require the hose reel be taken out of service, skip Steps 6a - b and continue hose reel disassembly instructions with Step 7, page 23.

- Unbolt reel and remove it from mounting location.
- b. Use 2, large c-clamps (A) to secure the hose reel to a flat surface (Fig. 14).

NOTE: Graco recommends placing a rag over the front and back frame to protect these surfaces from damage when the c-clamps are tightened down.

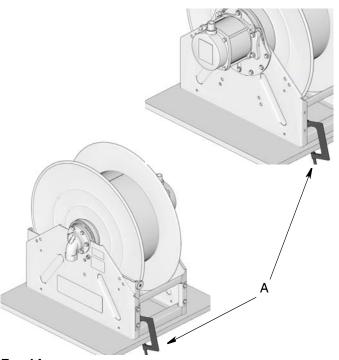


Fig. 14

7. Unwind hose from spool.

- a. Release brake (step 5).
- b. <u>For Pneumatic Models</u>: Position pneumatic lever in free-spool position.
- c. <u>For Hydraulic Models:</u> Turn switch to free-spool position.

- Turn the brake knob (41) to adjust brake tension as needed to prevent hose from unwinding too fast.
- e. Pull hose off reel.

8. Remove bolts (19) and outlet (17) from spool (Fig. 15).

NOTE: The hose does not have to be removed from the outlet unless your are replacing the hose. Hose replacement instructions are provided in Removing and Installing New Hose on Reel, page 46.

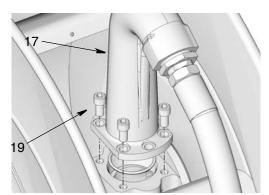


FIG. 15

9. Remove motor module (26).

a. Remove bolts (9) holding motor module (26) to reel (Fig. 16).

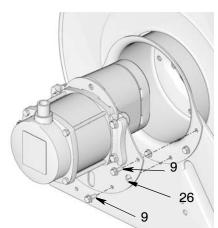


Fig. 16: Electric Motor Shown

b. Remove motor module (26) from hose reel.

If you are not replacing the motor module, set this part aside to use for reassembly. If you are only replacing the motor module, stop disassembly instructions here.

Motor Module Kits: 24T553, 24T554, 24T886, 24T888, 24T889, 24T890 24T891, and 24T892 are available from Graco. See Motor Kits, page 49 or contact Graco Customer Service or your local Graco distributor for additional information about ordering these kits.

10. Remove motor-side bearing and bracket.

a. Remove snap ring (30), bolts (9) and motor mount bracket (21) (Fig. 17).

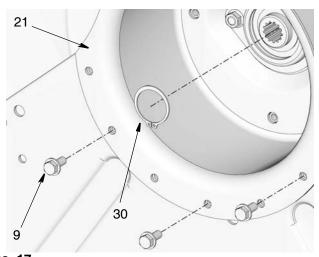


Fig. 17

b. Remove nuts (24), bearing flange (22), bearing (23) and bearing flange (22) from motor mount bracket (21) (Fig. 18).

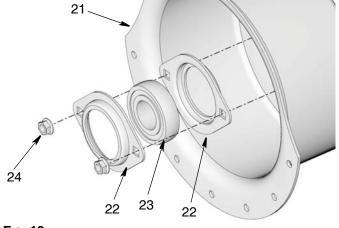


Fig. 18

If you are not replacing the bearing assembly (22, 23, 24), set these parts aside to use for reassembly. If you are only replacing the bearing assembly, stop disassembly instructions here.

Bearing Kit 24T342 is available from Graco. See Parts, page 50 or contact Graco Customer Service or your local Graco distributor for additional information about ordering this kit.

11. Remove brake assembly.

- a. Turn brake knob (41) to the left to remove brake tension (Fig. 19).
- b. Loosen and remove screw (42) from end of knob (41).

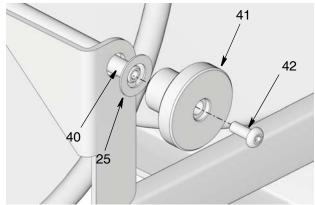


Fig. 19

- c. Remove knob (41) and washer (25) from end of rod (40).
- d. Loosen and remove nut (24) from anchor pin (37).

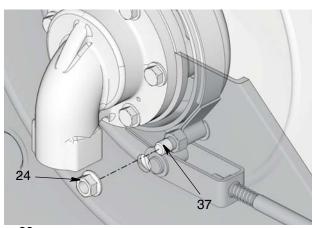


Fig. 20

e. Push anchor pin (37) into the frame. Pull assembly straight up from brake hub (12).

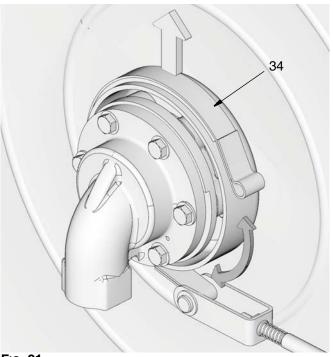


Fig. 21

12. Remove inlet (6).

NOTE: Notice the position of the inlet to ensure correct orientation of this part for reassembly.

a. On the inlet side, remove bolts (4) and inlet (6) (Fig. 22).

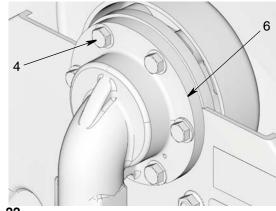


Fig. 22

If you are only replacing the Inlet and / or Inlet Seals, stop disassembly instructions here.

13. Lift up spool (2) to remove it from base (1) (Fig. 23).



Always wear heavy gloves to protect your hands from being cut on the hose reel.

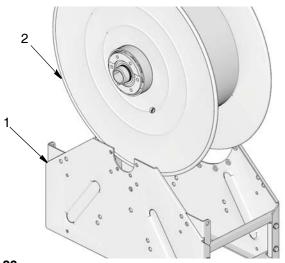


FIG. 23

14. Lay spool (2) on it's side on a clean, sturdy work surface.

15. Remove Inlet Side Bearings.

NOTE: Separate instructions are provided for Medium Pressure Hose Reels and Low Pressure Hose Reels (depending on your hose reel model). Medium Pressure Hose Reel instructions begin below, Low Pressure instructions begin on page 27.

Medium Pressure Hose Reels Inlet Side Bearing Removal

a. Use a snap ring pliers to remove snap ring (8) (Fig. 24).

NOTICE

Be careful not to scratch or score the seal surface of the shaft (a) when using the snap ring pliers to remove the snap ring (8). Damage to this surface could result in fluid leakage. Protect the surface by wrapping it with black electric tape.

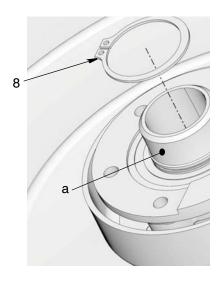


Fig. 24

- Use a spanner wrench to loosen bearing insert (13) nut. Once it is loose you can use your hand to unscrew and remove it (Fig. 25).
- c. Remove bearing retainer (5).

NOTE: Be careful when you remove the bearing retainer (5) that the bearing balls (16) do not fall out (Fig. 25).

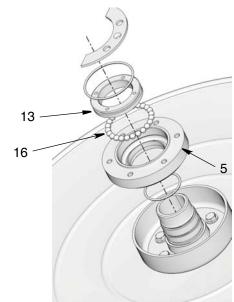


Fig. 25

d. Remove screws (9) and brake hub (12). Support swivel (3) from inside (Fig. 26).

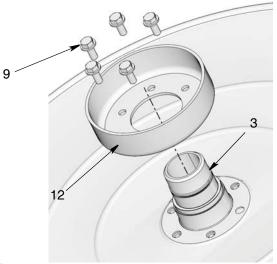


FIG. 26

If you are only replacing the Medium Pressure Bearing, stop disassembly instructions here.

Medium Pressure Bearing Kit: 24R071 is available from Graco. Reassembly instructions begin with Step 3b page 29.

If you are not replacing the Medium Pressure bearing, set these parts aside to use for reassembly.

Low Pressure Hose Reels Inlet Side Bearing Removal

a. Use a snap ring pliers to remove snap ring (8) (Fig. 27).

NOTICE

Be careful not to scratch or score the seal surface of the shaft (a) when using the snap ring pliers to remove the snap ring (8). Damage to this surface could result in fluid leakage. Protect the surface by wrapping it with black electric tape.

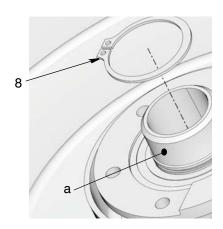


Fig. 27

b. Slide bearing retainer assembly (11) off shaft (Fig. 28).

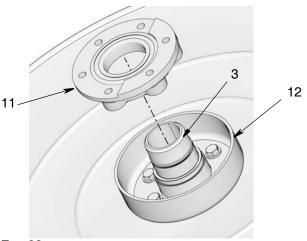


FIG. 28

c. Remove screws (9) and brake hub (12). Support swivel (3) from inside (Fig. 29).

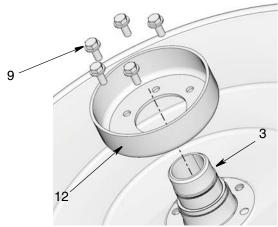


Fig. 29

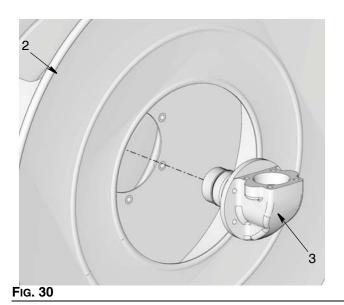
If you are only replacing the Low Pressure Bearing, stop disassembly instructions here.

Low Pressure Bearing 24R514 is available from Graco. Reassembly instructions begin with Step 3b page 30.

If you are not replacing the low pressure bearing, set these parts aside to use for reassembly.

16. Remove Swivel (3) from spool.

a. Remove swivel (3) from spool (2) (Fig. 30).



Low Pressure Swivel 16P906 and Medium Pressure Swivel 16P907 are available from Graco. See Parts page 48, for additional information about ordering these kits. Reassembly instructions are provided in Step 1, page 29.

17. Remove Shaft (20) from spool.

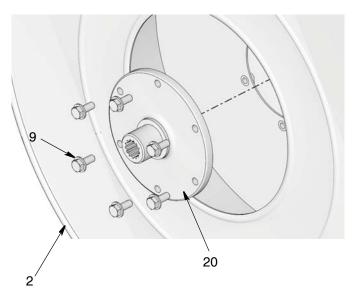


Fig. 31

b. Remove bolts (9) while holding shaft (20) to spool (2) (Fig. 31).

Shaft Replacement Kit 24T338 is available from Graco. See Parts page 48, for additional information about ordering these kits. Reassembly instructions are provided in Step 2, page 29.

Hose Reel Reassembly

1. Install swivel (3) inside spool on the inlet side (Fig. 32).

NOTE: The swivel (3) must be installed on the correct side of the spool (2) and oriented correctly inside the spool to ensure correct hose reel operation.

Slide the swivel through the hole in the center of the spool and rotate the swivel until flat surface (3a) is centered in the opening.

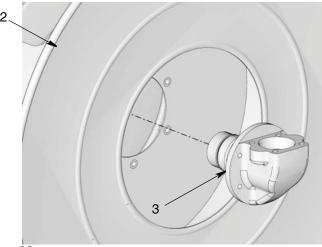
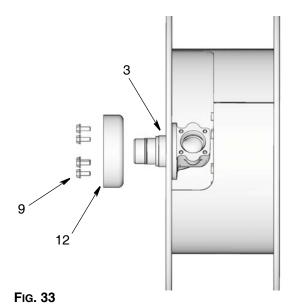


Fig. 32

 Install brake hub (12) on inlet side of spool using bolts (9) (Fig. 33). Wrench tighten then torque to 25 to 35 ft. lbs (33.9 to 47.45 N.m).



3. Install shaft (20) to spool (2) using bolts (9) (Fig. 34). Wrench tighten bolts. Then torque to 25 to 35 ft. lbs (33.9 to 47.45 N.m).

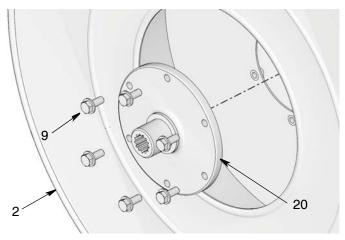


Fig. 34

4. Install inlet side bearing.

Medium Pressure Models Bearing Replacement:

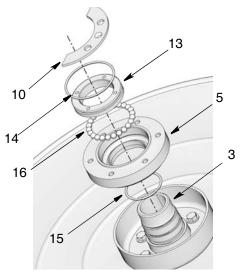


FIG. 35

NOTE: Steps a - g refer to Fig. 35.

- Inspect seals (14 and 15), bearing balls (16), bearing insert (13) and bearing retainer (5) for defects. Replace seals and any parts that are scratched or damaged.
- b. If reusing bearing balls (16) clean bearing balls with a soft, dry cloth.

c. Grease bearing balls (16).

NOTICE

Use 3 to 3.5 cc of grease only. Over-greasing bearing balls will cause bearing to prematurely lock up.

- d. Apply a thin layer of grease to seal (14). Install seal around bearing insert (13).
- e. Apply of thin layer of grease to the shaft o-ring (15). Install o-ring around swivel (3).
- f. Apply a thin layer of grease to inside surfaces of bearing retainer (5). Install balls (16) in retainer. Distribute balls evenly and verify they are all used and they are seated flat. (See Parts, page 48 to verify the correct quantity of balls needed for your hose reel model and series.)
- g. Install bearing retainer (5) and bearing insert (13). Use a spanner wrench on the bearing insert and tighten it securely. Torque to 20 ft. lbs (27.12 N.m).
- h. Install snap ring (14).

Low Pressure Bearing Models:

a. Slide bearing retainer assembly (11) onto shaft as shown in Fig. 36.

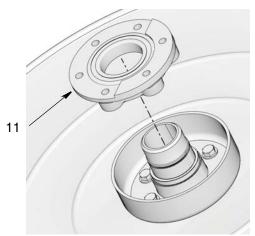


FIG. 36

b. Install snap ring (8) over shaft on the inlet side, using a snap ring pliers (Fig. 37). Do not scratch the sealing surface (a).

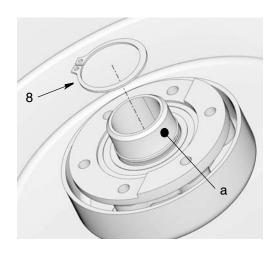


FIG. 37

NOTICE

Be careful not to scratch or score the seal surface of the shaft (a) when using the snap ring pliers to remove the snap ring (8). Damage to this surface could result in fluid leakage. Protect the surface by wrapping it with black electric tape.

5. Install spool (2) on reel frame (1) (Fig. 38).

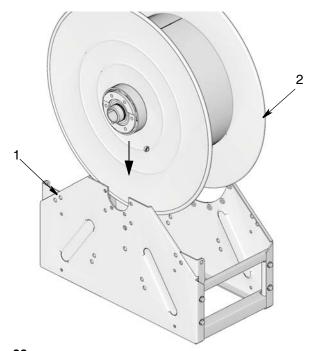


Fig. 38

6. Visually inspect inlet seal (7a) and o-ring (7b). Use your finger to feel surface of seal and o-ring for nicks. Replace these parts if damaged.

To replace seals:

 Use a pick to remove the white seal (7a) and black o-ring (7b) from the inlet assembly (6) (Fig. 39).

NOTICE

Be careful not to scratch or score the surface of the inlet (6) when using the pick to remove the seal (7a) and o-ring (7b). Damage to this surface could result in fluid leakage.

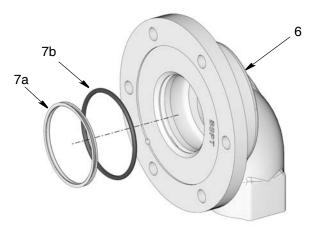


FIG. 39

- b. Apply a thin layer of grease to the black o-ring(7b) and white seal (7a).
- Install the new black o-ring (7b) first. Use your fingers to press it into the groove located inside the neck of the inlet assembly (6) (Fig. 40).

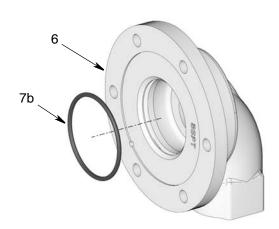


Fig. 40

d. Install the white seal (7a) over the o-ring (7b) (Fig. 41).

NOTE: Folding the seal (7a) into a U-shape before installation will help seat it correctly inside the inlet assembly. Then use your fingers to press the seal into the groove.

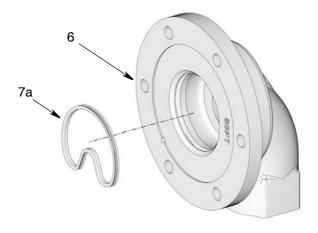


FIG. 41

NOTE: Be careful when installing these parts that they are lying flat inside the groove and do not have any kinks or bends which could result in fluid leakage due to a poorly seated seal.

7. Install inlet (6) on hose reel.



Always wear heavy gloves to protect your hands from being cut on the hose reel.

a. Position inlet (6) in the desired orientation on the base. (Fig. 42).

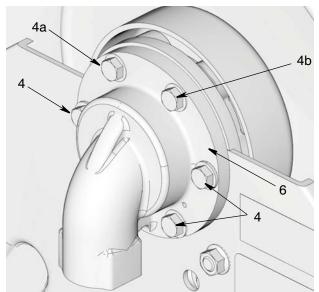
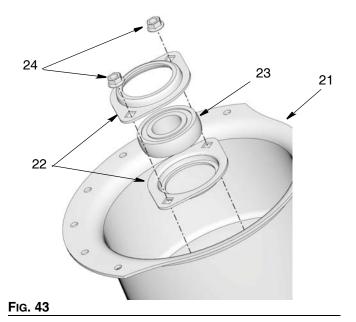


Fig. 42

- First install the top 2 bolts (4a and 4b) as shown in Fig. 42 through frame and inlet (6). Tighten bolts just enough to hold everything in place.
- c. Install the remaining bolts (4) (Fig. 42). Hand tighten and then torque all bolts to 13-16 ft. lbs (17.6-20.3 N•m).

8. Install bearing and motor bracket on the motor side:

a. Install bearing flange (22), bearing (23), bearing flange (22) and nut (24) in motor mount bracket (21). Refer to Fig. 43 to determine the correct orientation of these parts.



- b. Wrench tighten nuts and torque to 25-35 ft. lbs. (33.9 to 47.45 N.m).
- c. Install motor mount bracket (21) to reel using bolts (9). Wrench tighten bolts and torque to 25-35 ft. lbs. (33.9 to 47.45 N.m) (Fig. 44).

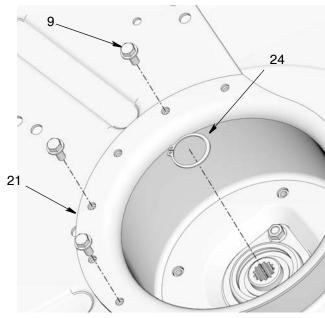


FIG. 44

d. Install snap ring (24) (Fig. 44).

9. Install motor module (26).

 a. Ensure splined shaft (26a) on motor module (26) is greased with a high pressure lithium grease (Fig. 45).

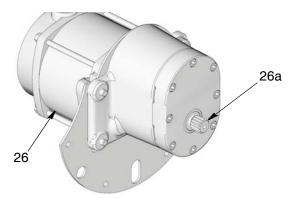


Fig. 45: Electric Motor Shown

- Insert shaft of motor module into power shaft (20). Rotate spool as needed to align shaft splines.
- c. Install 4 mounting bolts (9) finger tight only (Fig. 46).
- d. Support end of motor to align sheet metal mounting plate (26b) on motor module (26) to reel frame.

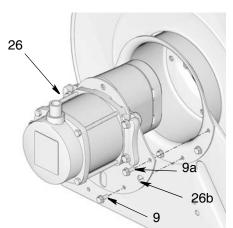


Fig. 46: Electric Motor Shown

- e. Tighten bolts (9a), top two, first. Then tighten bottom two bolts (9).
- f. Torque bolts to 25-35 ft. lbs (34-47.5 N.m).

NOTE: The outlet (17) orientation and motor (26) rotation can be changed to better accommodate the installation location. See XD 60, XD 70, XD 80 Power Rewind Hose Reel Installation instructions for these procedures.

10. Install brake assembly.

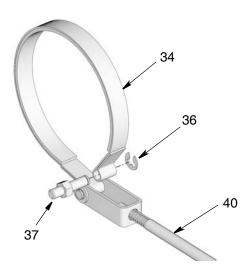


FIG. 47

- a. Install band (34) around brake hub (12) (Fig. 47).
- b. Slide anchor pin (37) through (34)the frame.

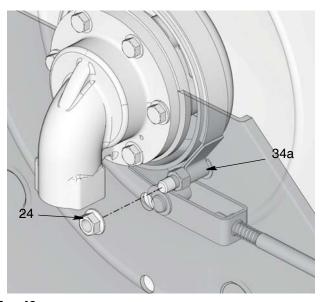


Fig. 48

c. Install nut (24) over anchor pin (37) and tighten securely (Fig. 48).

d. Feed end of rod (40) through hole (1a) (Fig. 49).

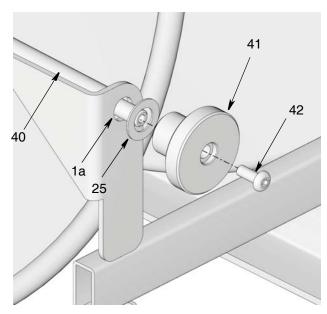


Fig. 49

e. Install washer (25) and knob (41) over end of rod (40). Install screw (42). Tighten screw securely to hold knob in place (Fig. 49). Torque screw to 35 - 45 in. lbs (3.95 - 5.08 N.m).

11. Install inlet hose.

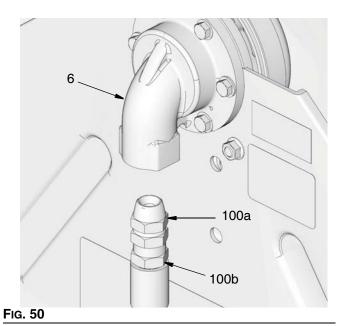
Inlet Hose Kits (100) - 24R111, 24R112, 24R115, 24R117, 24R118 and 24T858 are available from Graco. See Miscellaneous Kits, page 50.

NOTICE

A flexible hose connection must be used between the hose reel inlet and the fluid supply hose to prevent possible misalignment and binding during operation.

- a. If union adapter (100a) is not installed on inlet (6), apply pipe thread sealant or wrap PTFE tape around the threads of a union adapter (100a) and install union adapter on inlet (Fig. 50).
- Apply pipe thread sealant or wrap PTFE tape around the threads (6) of inlet hose (100b) (if needed).

- c. Attach union adapter (100a) to inlet hose (100b). Use a wrench to tighten the connection.
- d. Use a wrench to support the inlet fitting while tightening the adapter.



12. Install hose reel in service location.

NOTE:

- Always use large flat washers and four, 3/8 inch diameter bolts to mount the hose reel pedestal to the surface.
- Adjust inlet orientation prior to installing the hose reel. See Step 7, Install Inlet, page 31.
- The maximum recommended installation height is 8 feet (2.4 meters)

Lifting Hose Reel

Always use a hoist or other suitable lifting device to raise hose reel into position.

Secure a lifting strap around spool as shown in Fig. 51 or place a strap over the inlet and motor as shown in Fig. 52. See Technical Data (page 56) for hose reel weights.

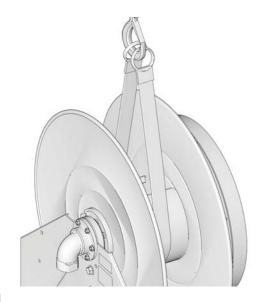


Fig. 51

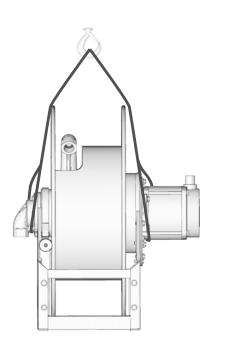


Fig. 52

13. Inspect outlet o-ring.

To replace o-ring:

NOTE: If the o-ring (18) is not damaged, you do not need to replace this part. Use a brush to apply a thin layer of grease around the o-ring and groove of the outlet (17). Then continue installation instructions with Step 14

a. Use a pick to remove o-ring (18) from outlet (17) (Fig. 53).

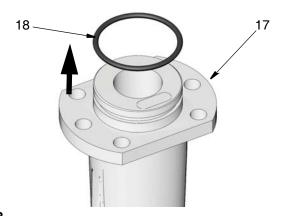


FIG. 53

NOTICE

Be careful not to scratch or score the surface of the outlet (17) when using the pick to remove the o-ring (18). Damage to this surface could result in fluid leakage.

 Apply a thin layer of grease to the new o-ring (18) and install new o-ring over outlet (17) as shown in Fig. 54.

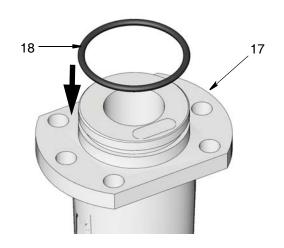


FIG. 54

14. Install hose on reel.



Always wear heavy gloves to protect your hands from being cut on the hose reel.

NOTE: The hose reel must be installed and the power connected before hose is installed.

- a. Apply pipe thread sealant or wrap hose threads with PTFE tape.
- Attach end of the hose to the outlet (17) using two wrenches on the flats, working in opposite directions, to securely tighten the hose to the outlet fitting (Fig. 55).

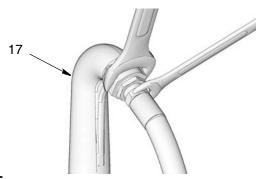


FIG. 55

c. Reinstall outlet (17) to swivel (3). Replace and tighten all screws (19) securely. Torque bolts to 24 to 30 ft. pounds (32.54 to 40.67 N.m) (Fig. 56).

NOTE:

- Low Pressure Models (shown in Fig. 56) use 4 screws (19).
- Medium Pressure Models (not shown) use 6 screws (19).
- Always use all screws provided.

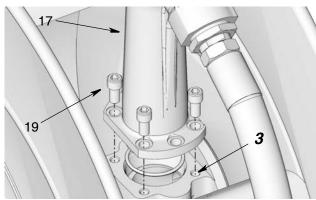


FIG. 56: Low Pressure Model (shown)

15. Connect motor power.

NOTICE

Failure to pressurize hose before winding hose on reel, can damage spool.

- 16. Pressurize hose.
- 17. Turn brake knob (41) to the left to ensure the brake is loose and there is no tension on the spool.
- 18. Actuate button or valve to wind hose onto reel.

19. Flush system by pumping dispensing fluid through line until all solvent has been flushed out.









To avoid fire and explosion always ground equipment and waste container. To avoid injury from splashing, always flush at lowest possible pressure.

Before installing dispense valve to end of hose, flush supply line with a solvent compatible with the fluid you are dispensing.

a. Place end of hose in a waste container (Fig. 57).



FIG. 57

b. Blow out entire lubricant supply line with air (Fig. 58).



FIG. 58

c. Flush equipment with a compatible solvent until fluid runs clear (Fig. 59).



Fig. 59

d. Pump dispensing lubricant through line until all solvent is flushed out (Fig. 60).



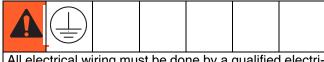
Fig. 60

Powering Motor Module and Controller

The hose reel must be installed before powering the reel.

Electric Models

12 VDC or 24 VDC Models



All electrical wiring must be done by a qualified electrician and comply with all local codes and regulations

Required Accessories:

 Insulated wire: Size wire per amperage on motor name plate. In higher amperage applications, use larger wire to prevent voltage drop.

- · Contactor.
- Momentary push button.
- Circuit breaker: Size circuit breaker per amperage on motor name plate and insulated wire rating.
- Ring terminals and wire nuts.

Instructions

- 1. Disconnect battery.
- Follow wiring diagram provided in Fig. 61 and Wiring Schematic provided in Fig. 62.
- Connect battery.
- 4. Verify motor rotation.

Wiring Diagram

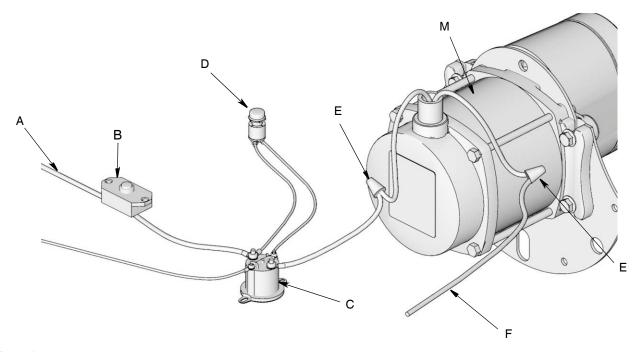


FIG. 61

- A Motor cable to battery (positive terminal)
- B Circuit breaker
- C Contactor
- D Momentary push button switch
- E Wire nut
- F Cable to battery (negative terminal)
- M Motor

Wiring Schematic

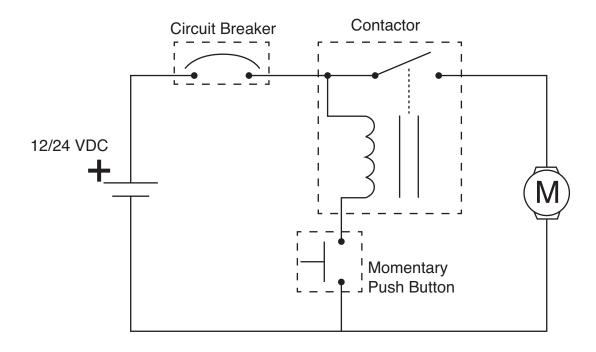
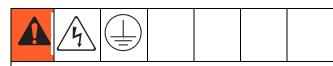


FIG. 62

115 VAC Models



All electrical wiring must be done by a qualified electrician and comply with all local codes and regulations.

NOTICE

- AC motors are rectified DC motors and generate approximately 90VDC. Proper wiring must be followed to prevent damage to rectifier.
- Ensure motor is connected to a secondary protected circuit, properly rated for motor amperage to prevent damage to the motor.

Required Accessories:

- Hard service cord: Size cord per amperage on motor name plate. Choose proper cord type for operating environment.
- Junction box.
- 3/4 inch plugs.
- 3/4 inch, strain relief connectors.
- Double Pole, Single Throw (DPST) Push Button Switch.
- · Wire nuts.

Instructions

Follow wiring diagram provided in Fig. 63 and wiring schematic Fig. 64.

Wiring Diagram

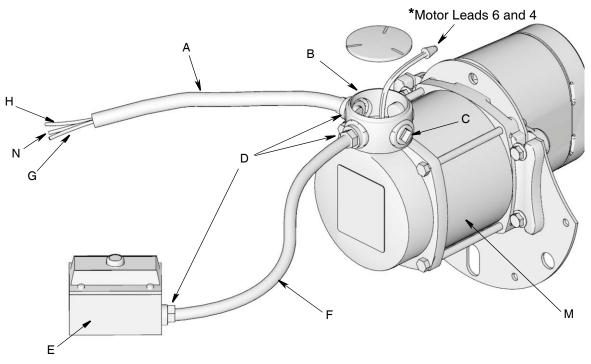


FIG. 63

- A Hard service cord 3 conductors
- B Junction Box
- C 3/4 inch Plug
- D Strain Relief
- E Double Pole, Single Throw (DPST) Push Button Switch
- F Hard Service Cord 5 conductors

- G Cable, Ground
- H Cable, Hot
- M Motor
- N Cable, Neutral

Wiring Schematic

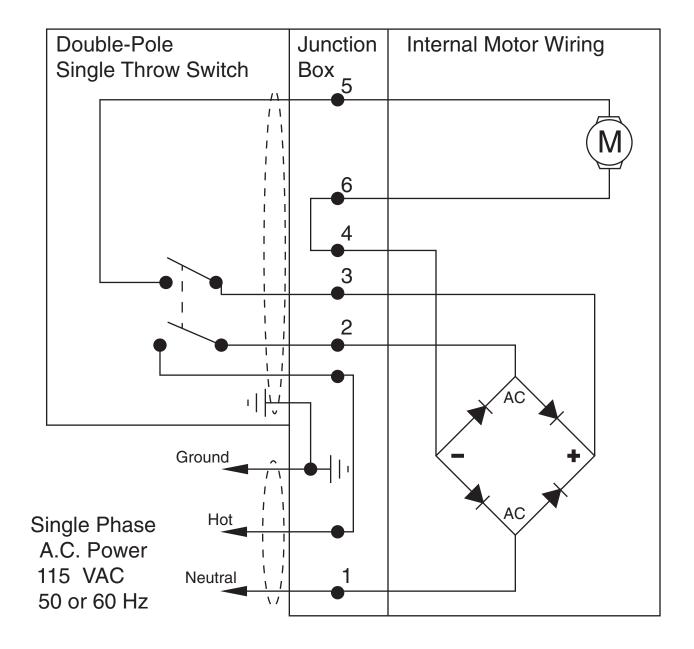
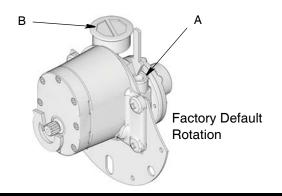


FIG. 64

Pneumatic Models

1. Connect pneumatic power supply line to the pneumatic motor.

NOTE: When the reel is powered the spool should wind in the direction that allows the hose to wind up onto the spool. The factory default reel configuration is counter-clockwise rotation of the motor when viewed from the motor side of the spool (end opposite the motor shaft). See Fig. 65.



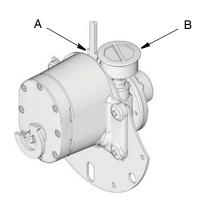
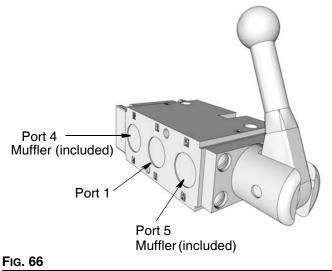


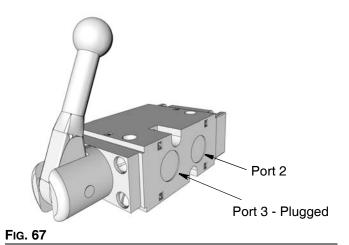
FIG. 65

- Air Inlet
- Muffler В
- Install the muffler supplied with the reel pneumatic motor in the opposite port as the power supply.
- Turn on power supply and verify rotation is correct. Reverse connections to reverse motor rotation.
- 4. Install pneumatic control (Graco PN 127271. See Miscellaneous Kits, page 50).

a. Connect port 1 to the pneumatic power supply line (Fig. 66).



b. Connect port 2 to the reel air motor (Fig. 67).



Control Operation

The control is a 2 position control:

Normal Position: allows free-spool rotation (Fig. 68).



FIG. 68

• Handle Pulled: energizes the reel (Fig. 69).

NOTE: The Pull direction is spring returned. When it is released, the pneumatic power to the reel is stopped.

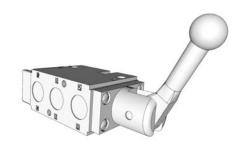


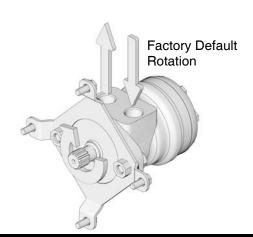
FIG. 69

Hydraulic Models

Connect hydraulic control supply line to the hydraulic motor.

NOTE: When the reel is powered the spool should wind in the direction that allows the hose to wind up onto the spool. The factory default reel configuration is counter-clockwise rotation of the motor when viewed from the motor side of the spool (end opposite the motor shaft). See Fig. 70.

- 2. Connect the opposite motor port to the tank return line
- 3. Turn on power supply and verify correct rotation. Reverse connections to reverse motor rotation.



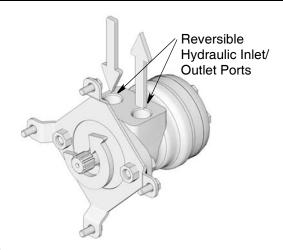


FIG. 70

User Supplied Hydraulic Controls

NOTICE

- Do not use a valve that allows oil from the hydraulic motor to bleed back into the tank without replenishing it such as a closed center spool or tandem center spool valve. This could seriously damage or seize the motor.
- Always use a filter in the hydraulic system. Failure to use a filter will void the Graco warranty on the reel and hydraulic motor.

Installations with Fixed Displacement Pump

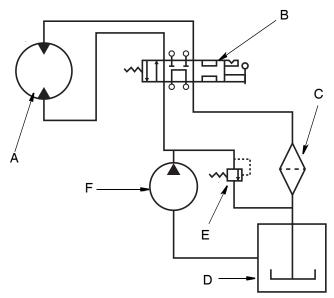


Fig. 71

- Δ Real Moto
- B 4-Way Valve (appropriately sized to match pump output)
- C Return Line Filter
- D Reservoir
- E Relief Valve
- F Pump

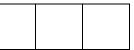
Graco Hydraulic Controls (Optional)

NOTE: Users may use their own hydraulic controller or Graco Hydraulic Control Kits 127224 and 127225 are available. See Miscellaneous Kits, page 50 or contact Graco Customer Support or your Graco Distributor for information about ordering these kits.





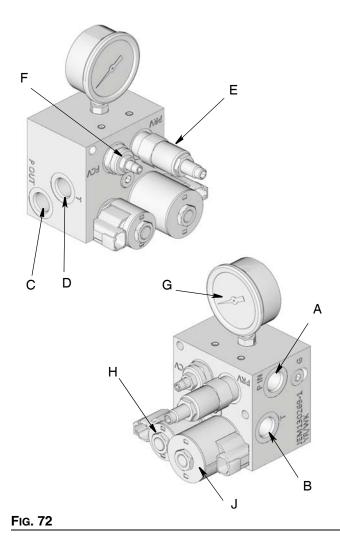




To avoid serious injury such as fluid injection from a ruptured component, do not use the hydraulic control module with a hydraulic supply pump that is not equipped with a pressure relief valve. Hydraulic control modules 127224 and 127225 are designed for use with an internally pressure compensated hydraulic pump only.

- Install hydraulic control (Graco PN 127224 12V or 127225 - 24V. See Miscellaneous Kits, page 50) (Fig. 72).
 - a. Connect hydraulic power supply to hydraulic pressure inlet (A).
 - b. Connect tank return hose to tank port (B).
 - Connect hydraulic pressure outlet (C) to proper hydraulic motor inlet on reel for the desired rotation direction.
 - d. Connect tank return (D) to remaining port on reel motor.
 - e. Reverse connections on hydraulic motor to reverse rotation.
- 2. Wire switch to solenoids on hydraulic control module as shown in (Fig. 72).
 - H is the solenoid to energize the hydraulic circuit to apply power to the rewind motor.

- J is the solenoid to energize the hydraulic circuit to allow the reel spool to "free spool" to allow for hose extension.
- The center switch position is the normal position and does not energize either solenoid. The spool rotation is restricted in this switch position.
- 3. Turn on power supply and verify correct rotation. Reverse hydraulic motor connections to reverse motor rotation.



Removing and Installing New Hose on Reel

Removing Hose

Use this procedure to remove the hose from the reel and install a new hose on the reel.









- Verify there is sufficient access to the back of the hose reel (opposite hose exit) to enable outlet removal. Access is installation dependent. If hose access is not available the hose reel must be taken out of service. See Step 6, Remove Hose Reel From Service, page 23.
- Flush fluid from reel and hose.
 - a. Place end of hose in a waste container (Fig. 73).



FIG. 73

Blow out entire lubricant supply line with air (Fig. 74).

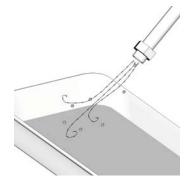


Fig. 74

c. Cap end of hose to prevent fluid spills.









Always wear heavy gloves to protect your hands from being cut on the hose reel.

- Unwind hose from spool.
 - a. Actuate free-spool and release brake by turning the brake knob (41) to the left to decrease / loosen brake tension.
 - b. For Pneumatic Models: Position pneumatic lever in free-spool position.
 - c. For Hydraulic Models: Turn switch to free-spool position.
 - Unwind hose from reel.
- Disconnect hose reel from power source.

NOTE: Before removing outlet from spool, note it's installation orientation to ensure the outlet is correctly positioned for re-installation.

5. With hose still attached to outlet, remove screws (19) and outlet (17) from spool (Fig. 75).

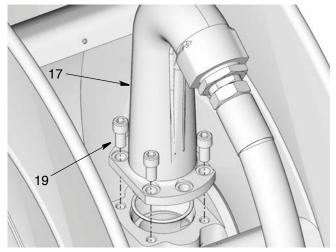


FIG. 75

Using two wrenches on the flats, working in opposite directions, loosen and remove the hose from

the outlet (Fig. 76).

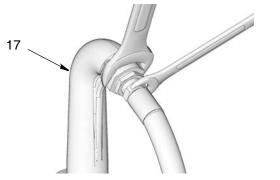


FIG. 76

Installing Hose

1. Feed end of the hose, through the reel frame (A), then under the reel (B), and around the back (C) of the spool (Fig. 77).

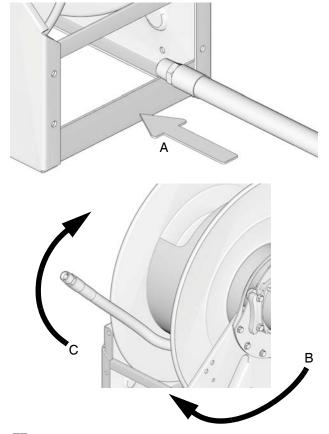


Fig. 77

2. Apply pipe thread sealant or wrap hose threads with PTFE tape.

3. Attach end of the hose to the outlet (17) using two wrenches on the flats, working in opposite directions, to securely tighten the hose to the outlet fitting (Fig. 78).

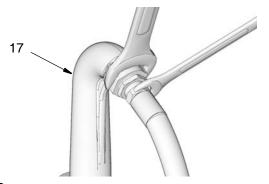


Fig. 78

4. Reinstall outlet (17) to spool. Replace and tighten bolts (19) securely. Torque bolts to 24 to 30 ft. pounds (32.54 to 40.67 N.m) (Fig. 79).

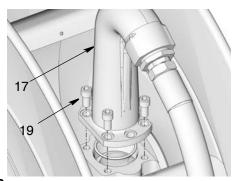


Fig. 79

NOTICE

Failure to pressurize hose before winding hose on reel, can damage spool.

- 5. Pressurize hose before winding it on the reel.
- 6. Flush system by pumping dispensing fluid through line until all solvent has been flushed out (See Flushing instructions, Step 19, page 37.)
- 7. Connect motor power.
- 8. Actuate button or valve to wind hose onto reel.

Parts

Ref	Part No.	Description	Qty
1		BASE	1
2		SPOOL	1
	16P906	SWIVEL, low pressure models	1
3	16P907	SWIVEL, med pressure models	1
	100500	SCREW, cap, hex head, low pres-	
	126596	sure models	6
4	112586	SCREW, cap, hex head, med pres-	6
4	112300	sure models	١
	555595	SCREW, cap, hex head, model	6
	000000	24U744 only	J
5	16P901	RETAINER, bearing, medium	1
	101 001	pressure models only	
		SWIVEL, inlet, 1.0 in.	1
6		SWIVEL, inlet, 1.5 in.	1
		SWIVEL, inlet, 2.0 in.	1
7	126787	SEAL, inlet	1
8	126643	RING, retaining, 1.969 shaft	1
9	110963	SCREW, cap, flange head	18
10	126739	SHIM, frame, medium pressure	1
	120700	models only	•
11 12	24R514	BEARING, retainer, low pressure	1
12 1268		models only	
12	126808	HUB, brake	1
13	16P898	INSERT, bearing, medium pres-	1
-		sure models only	
14	16W910	O-RING, 147, buna, medium pres-	1
		sure models only	
14 15	126731	O-RING, 135, buna, medium pres-	1
		sure models only BALL, chrome, stainless steel,	
16	555371	medium pressure models only	21
		SWIVEL, outlet, 1 in., tall, XD 60	
		and XD 8010 models	1
		SWIVEL, outlet, 1 in., XD 7010	
		models	1
		SWIVEL, outlet, 1.5 in., XD 7015	
17		models	1
		SWIVEL, outlet, 2 in., XD 7020	
		models	1
		SWIVEL, outlet, 1.5 in., tall, XD	
		8015 models	1
		SWIVEL, outlet, 2 in., XD 8020	1
18	105318	PACKING, o-ring	1
19		SCREW, SHCS, 5/16-18 x 0.75,	
	EE0670	low pressure models	4
	558673	SCREW, SHCS, 5/16-18 x 0.75,	
		medium pressure models	6

Ref	Part No.	Description	Qty
20		SHAFT, power	1
21		BRACKET, motor mount	1
22	127151	FLANGE, bearing	2
23	112953	BEARING, ball	1
24	112958	NUT, hex, flange	3 1
25	158019	SHIM, washer	1
26a*	24T886	MOTOR, assembly, 12 VDC	1
26b*	24T888	MOTOR, assembly, 24 VDC	1
26c*	24T910	MOTOR, assembly, 12 VDC, 2/3 hp	1
26d*	24T911	MOTOR, assembly, 24 VDC, 2/3 hp	
26e*	24T889	MOTOR, assembly, 115 VAC	1
26f*	24T890	MOTOR, assembly, 230 VAC	1
26g*	24T892	MOTOR, assembly, pneumatic	1
26h*	24T891	MOTOR, assembly, hydraulic	1
27	16V902	PLATE, wear	2
28	111801	SCREW, cap, hex head	4
29	110996	NUT, hex, flange head	4
30	106082	RING, retaining	1
33	112914	WASHER, plain	2
34		BAND, brake	1
35		CLEVIS, brake	1
36	101134	RING, retaining	2
37		PIN, brake, anchor	1
38		PIN, clevis, grooved, 0.375 x 1.65	1
39		SPRING, compression	1
40	16U506	ROD, brake, All XD 60 and XD 70 models only	1
	16U430	ROD, brake, All XD 80 models only	1
41	16W151	KNOB	1
42	555608	SCREW, #10-24 x 0.50 soc	1
43	16T815	LABEL, identification	1
46 ▲	15W036	LABEL, warning	1

^{*} Models 24T104 - 24T133 do not include a motor. See Motor Kits, page 49

▲ Replacement Danger and Warning labels, tags, and cards are available at no cost.

Repair and Accessory Kits

Motor Kits (26)

Ref	Part No.	Description	Qty
	24T886	MOTOR, assembly, 12 VDC,	
		includes:	
	112785	SCREW, hex head	4
26a	126991	• MOTOR, 12 VDC, 1/2 HP, 650 rpm	1
	16U141	PLATE, motor mount, black	1
	24P951 �	• KIT, GEAR REDUCER	1
	24T888	MOTOR, assembly, 24 VDC, includes:	
	112785	SCREW, hex head	4
26b	126992	• MOTOR, 24 VDC, 1/2 HP, 650 rpm	1
	16U141	PLATE, motor mount, black	1
	24P951 *	• KIT, GEAR REDUCER	1
		,	
	24T910	MOTOR, assembly, 12 VDC, includes:	
	112785	SCREW, hex head	4
26c	127247	• MOTOR, 12 VDC, 2/3 HP, 700 rpm	1
	16U141	PLATE, motor mount, black	1
	24P951 *	•KIT, GEAR REDUCER	1
	24T911	MOTOR, assembly, 24 VDC, includes:	
	112785	SCREW, hex head	4
26d	127248	• MOTOR, 24 VDC, 2/3 HP, 700 rpm	1
	16U141	PLATE, motor mount, black	1
	24P951 �	• KIT, GEAR REDUCER	1
26e	24T889	MOTOR, assembly, 115 VAC, includes:	
	112785	SCREW, hex head	4
	126990	• MOTOR, 115 VAC, 40 HP, 500 rpm	1
	16U141	PLATE, motor mount, black	1
	24P951 *	• KIT, GEAR REDUCER	1

Ref	Part No.	Description	Qty
	0.47000	MOTOR, assembly, 230 VAC,	
	24T890	includes:	
	112785	SCREW, hex head	4
26f	127211	• MOTOR, 230 VAC, 1/2 HP, 650	
		rpm	
	16U141	PLATE, motor mount, black	_
	24P951 �	• KIT, GEAR REDUCER	
	24T892	MOTOR, assembly, pneumatic, includes:	
	111192	SCREW, cap, flange head	4
26g	111801	SCREW, cap, hex head	;
	126994	MOTOR, pneumatic, 4 hp	
	16U141	PLATE, motor mount	
	24P951◆	KIT, GEAR REDUCER	
	24T891	MOTOR, assembly, hydraulic, includes:	
	110963	SCREW, cap, flange head	
26h	113961	SCREW, cap, hange head	4
	113901	• MOTOR, hydraulic, 14 HP, 755	
	16W740	rpm	
101	126963	ADAPTER, hydraulic motor	
*	24P951	KIT, gear reducer	
		• PIN, dowel	2
		BEARING, roller	;
		SCREW, cap, socket head	
		BEARING, thrust	
		BEARING, needle, 37 mm od	
		• WASHER, 1.43 in. x 1.188 in. x	
		0.063 in.	
		HOUSING, gearbox	
		COVER, housing, gearbox	
		SHAFT, output	
		GEAR, driven, second stage	
		GEAR, input drive	
		BEARING, thrust	
		GEAR, driving, second stage	-
		GEAR, driven, second stage	

Hose Kits

126505 HOSE, coupled, 1.0 in. x 100 ft., oil 127167 HOSE, coupled, 2.0 in. x 33 ft., fuel 127173 HOSE, coupled, 1.5 in. x 50 ft., waste oil evacuation 24T252 HOSE, 1.0 in. x 150 ft., fuel 24T253 HOSE, 1.5 in. x 100 ft., fuel 24T254 HOSE, 2 in. x 50 ft., fuel 126359 HOSE, coupled, 1/2 in. x 100 ft, air/water, npt 126360 HOSE, coupled, 3/4 in. x 75 ft, air/water, npt 126361 HOSE, coupled, 3/4 in. x 100 ft, air/water, npt 126362 HOSE, coupled, 1 in. x 50 ft, air/water, npt 126375 HOSE, coupled, 1/2 in. x 100 ft, oil, npt 126376 HOSE, coupled, 3/4 in. x 75 ft, oil, npt 126377 HOSE, coupled, 3/4 in. x 100 ft, oil, npt 126379 HOSE, coupled, 1 in. x 50 ft, waste oil evacuation, npt 126363 HOSE, coupled, 1 in. x 50 ft, fuel, npt 126364 HOSE, coupled, 1 in. x 50 ft, fuel, npt 126364 HOSE, coupled, 1 in. x 75 ft, oil, npt 126364 HOSE, coupled, 1 in. x 75 ft, oil, npt 126364 HOSE, coupled, 1 in. x 75 ft, oil, npt 126364 HOSE, coupled, 1 in. x 75 ft, oil, npt 126380 HOSE, coupled, 1 in. x 75 ft, oil, npt 126380 HOSE, coupled, 1 in. x 75 ft, oil, npt 126380 HOSE, coupled, 1 in. x 75 ft, oil, npt 126380 HOSE, coupled, 1 in. x 35 ft, waste oil evacuation, npt 126380 HOSE, coupled, 1.25 in. x 35 ft, waste oil evacuation, npt 12648104 HOSE, coupled, 1 in. x 75 ft, fuel, npt 126780 HOSE, coupled, 1 in. x 75 ft, fuel, npt 12688 HOSE, coupled, 1 in. x 75 ft, fuel, npt 12688 HOSE, coupled, 1 in. x 50 ft, fuel, npt 12689 HOSE, coupled, 1 in. x 50 ft, fuel, npt 126810 HOSE, coupled, 1 in. x 50 ft, fuel, npt 1268110 HOSE, coupled, 1 in. x 50 ft, fuel, npt 12691111 HOSE, coupled, 1 in. x 50 ft, fuel, npt	Part No.	Description
127173 HOSE, coupled, 1.5 in. x 50 ft., waste oil evacuation 24T252 HOSE, 1.0 in. x 150 ft., fuel 24T253 HOSE, 1.5 in. x 100 ft., fuel 24T254 HOSE, 2 in. x 50 ft., fuel 126359 HOSE, coupled, 1/2 in. x 100 ft, air/water, npt 126360 HOSE, coupled, 3/4 in. x 75 ft, air/water, npt 126361 HOSE, coupled, 3/4 in. x 100 ft, air/water, npt 126362 HOSE, coupled, 1 in. x 50 ft, air/water, npt 126375 HOSE, coupled, 1/2 in. x 100 ft, oil, npt 126376 HOSE, coupled, 3/4 in. x 75 ft, oil, npt 126377 HOSE, coupled, 3/4 in. x 100 ft, oil, npt 126379 HOSE, coupled, 1 in. x 50 ft, waste oil evacuation, npt 126379 HOSE, coupled, 1 in. x 50 ft, fuel, npt 126363 HOSE, coupled, 1 in. x 50 ft, fuel, npt 126364 HOSE, coupled, 1 in. x 100 ft, air/water, npt 126365 HOSE, coupled, 1 in. x 100 ft, air/water, npt 126364 HOSE, coupled, 1 in. x 75 ft, oil, npt 126380 HOSE, coupled, 1 in. x 35 ft, waste oil evacuation, npt 126380 HOSE, coupled, 1.25 in. x 35 ft, waste oil evacuation, npt 126380 HOSE, coupled, 1.25 in. x 50 ft, waste oil evacuation, npt 126380 HOSE, coupled, 1 in. x 75 ft, fuel, npt 24R103 HOSE, coupled, 1 in. x 75 ft, fuel, npt 24R108 HOSE, coupled, 1.25 in. x 35 ft, fuel, npt 24R108 HOSE, coupled, 1.25 in. x 35 ft, fuel, npt	126505	HOSE, coupled, 1.0 in. x 100 ft., oil
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24T252 HOSE, 1.0 in. x 150 ft., fuel 24T253 HOSE, 1.5 in. x 100 ft., fuel 24T254 HOSE, 2 in. x 50 ft., fuel 126359 HOSE, coupled, 1/2 in. x 100 ft, air/water, npt 126360 HOSE, coupled, 3/4 in. x 75 ft, air/water, npt 126361 HOSE, coupled, 3/4 in. x 100 ft, air/water, npt 126362 HOSE, coupled, 1 in. x 50 ft, air/water, npt 126375 HOSE, coupled, 1/2 in. x 100 ft, oil, npt 126376 HOSE, coupled, 3/4 in. x 75 ft, oil, npt 126377 HOSE, coupled, 3/4 in. x 100 ft, oil, npt 126378 HOSE, coupled, 3/4 in. x 100 ft, oil, npt 126379 HOSE, coupled, 1 in. x 50 ft, waste oil evacuation, npt 126363 HOSE, coupled, 1 in. x 50 ft, fuel, npt 126364 HOSE, coupled, 1 in. x 75 ft, air/water, npt 126364 HOSE, coupled, 1 in. x 100 ft, air/water, npt 126364 HOSE, coupled, 1 in. x 75 ft, oil, npt 126380 HOSE, coupled, 1 in. x 75 ft, waste oil evacuation, npt 126380 HOSE, coupled, 1.25 in. x 35 ft, waste oil evacuation, npt 126380 HOSE, coupled, 1.25 in. x 50 ft, fuel, npt 1264R103 HOSE, coupled, 1 in. x 75 ft, fuel, npt 124R106 HOSE, coupled, 1 in. x 35 ft, fuel, npt 124R107 HOSE, coupled, 1 in. x 35 ft, fuel, npt 124R108 HOSE, coupled, 1.25 in. x 35 ft, fuel, npt 124R110 HOSE, coupled, 1.25 in. x 50 ft, fuel, npt	127173	HOSE, coupled, 1.5 in. x 50 ft., waste oil
24T253 HOSE, 1.5 in. x 100 ft., fuel 24T254 HOSE, 2 in. x 50 ft., fuel 126359 HOSE, coupled, 1/2 in. x 100 ft, air/water, npt 126360 HOSE, coupled, 3/4 in. x 75 ft, air/water, npt 126361 HOSE, coupled, 3/4 in. x 100 ft, air/water, npt 126362 HOSE, coupled, 1 in. x 50 ft, air/water, npt 126375 HOSE, coupled, 1/2 in. x 100 ft, oil, npt 126376 HOSE, coupled, 3/4 in. x 75 ft, oil, npt 126377 HOSE, coupled, 3/4 in. x 100 ft, oil, npt 126378 HOSE, coupled, 3/4 in. x 100 ft, oil, npt 126379 HOSE, coupled, 1 in. x 50 ft, waste oil evacuation, npt 126363 HOSE, coupled, 1 in. x 50 ft, fuel, npt 126364 HOSE, coupled, 1 in. x 75 ft, air/water, npt 126364 HOSE, coupled, 1 in. x 75 ft, air/water, npt 1263650 HOSE, coupled, 1 in. x 75 ft, oil, npt 126380 HOSE, coupled, 1 in. x 75 ft, oil, npt 126380 HOSE, coupled, 1 in. x 75 ft, oil, npt 126380 HOSE, coupled, 1 in. x 75 ft, oil, npt 126380 HOSE, coupled, 1 in. x 75 ft, fuel, npt 1264810 HOSE, coupled, 1 in. x 75 ft, fuel, npt 1264810 HOSE, coupled, 1 in. x 75 ft, fuel, npt 1264810 HOSE, coupled, 1 in. x 75 ft, fuel, npt 1264810 HOSE, coupled, 1 in. x 75 ft, fuel, npt 1264810 HOSE, coupled, 1 in. x 75 ft, fuel, npt 1264810 HOSE, coupled, 1 in. x 100 ft, fuel, npt 126504 HOSE, coupled, 1 in. x 75 ft, fuel, npt 126688 HOSE, coupled, 1 in. x 75 ft, fuel, npt		
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126360 HOSE, coupled, 3/4 in. x 75 ft, air/water, npt 126361 HOSE, coupled, 3/4 in. x 100 ft, air/water, npt 126362 HOSE, coupled, 1 in. x 50 ft, air/water, npt 126375 HOSE, coupled, 1/2 in. x 100 ft, oil, npt 126376 HOSE, coupled, 3/4 in. x 75 ft, oil, npt 126377 HOSE, coupled, 3/4 in. x 100 ft, oil, npt 126503 HOSE, coupled, 3/4 in. x 100 ft, oil, npt 126503 HOSE, coupled, 1 in. x 50 ft, oil, npt 126379 HOSE, coupled, 1 in. x 50 ft, waste oil evacuation, npt 126363 HOSE, coupled, 1 in. x 50 ft, fuel, npt 126364 HOSE, coupled, 1 in. x 75 ft, air/water, npt 126364 HOSE, coupled, 1 in. x 75 ft, oil, npt 126380 HOSE, coupled, 1.25 in. x 35 ft, waste oil evacuation, npt 126688 HOSE, coupled, 1.25 in. x 50 ft, waste oil evacuation, npt 12670 HOSE, coupled, 1 in. x 75 ft, fuel, npt 12688 HOSE, coupled, 1 in. x 75 ft, fuel, npt 12689 HOSE, coupled, 1 in. x 75 ft, fuel, npt 12680 HOSE, coupled, 1 in. x 75 ft, fuel, npt 126810 HOSE, coupled, 1 in. x 75 ft, fuel, npt 126810 HOSE, coupled, 1 in. x 75 ft, fuel, npt 126810 HOSE, coupled, 1 in. x 75 ft, fuel, npt 126910 HOSE, coupled, 1 in. x 50 ft, fuel, npt 126911 HOSE, coupled, 1.25 in. x 50 ft, fuel, npt 126911 HOSE, coupled, 1.25 in. x 50 ft, fuel, npt	_	
126361 HOSE, coupled, 3/4 in. x 100 ft, air/water, npt 126362 HOSE, coupled, 1 in. x 50 ft, air/water, npt 126375 HOSE, coupled, 1/2 in. x 100 ft, oil, npt 126376 HOSE, coupled, 3/4 in. x 75 ft, oil, npt 126377 HOSE, coupled, 3/4 in. x 100 ft, oil, npt 126503 HOSE, coupled, 1 in. x 50 ft, oil, npt 126379 HOSE, coupled, 1 in. x 50 ft, waste oil evacuation, npt 126363 HOSE, coupled, 1 in. x 50 ft, fuel, npt 126364 HOSE, coupled, 1 in. x 75 ft, air/water, npt 126364 HOSE, coupled, 1 in. x 75 ft, oil, npt 126380 HOSE, coupled, 1 in. x 75 ft, oil, npt 126380 HOSE, coupled, 1.25 in. x 35 ft, waste oil evacuation, npt 126688 HOSE, coupled, 1.25 in. x 50 ft, waste oil evacuation, npt 12670 HOSE, coupled, 1 in. x 75 ft, fuel, npt 12688 HOSE, coupled, 1 in. x 75 ft, fuel, npt 12689 HOSE, coupled, 1 in. x 75 ft, fuel, npt 12680 HOSE, coupled, 1 in. x 75 ft, fuel, npt 126810 HOSE, coupled, 1 in. x 75 ft, fuel, npt 126810 HOSE, coupled, 1 in. x 75 ft, fuel, npt 126810 HOSE, coupled, 1 in. x 35 ft, fuel, npt 126910 HOSE, coupled, 1 in. x 35 ft, fuel, npt 126911 HOSE, coupled, 1.25 in. x 50 ft, fuel, npt 126911 HOSE, coupled, 1.25 in. x 50 ft, fuel, npt		-
126362 HOSE, coupled, 1 in. x 50 ft, air/water, npt 126375 HOSE, coupled, 1/2 in. x 100 ft, oil, npt 126376 HOSE, coupled, 3/4 in. x 75 ft, oil, npt 126377 HOSE, coupled, 3/4 in. x 100 ft, oil, npt 126303 HOSE, coupled, 1 in. x 50 ft, oil, npt 126379 HOSE, coupled, 1 in. x 50 ft, waste oil evacuation, npt 126363 HOSE, coupled, 1 in. x 50 ft, fuel, npt 126364 HOSE, coupled, 1 in. x 75 ft, air/water, npt 126364 HOSE, coupled, 1 in. x 100 ft, air/water, npt 126380 HOSE, coupled, 1 in. x 75 ft, oil, npt 126380 HOSE, coupled, 1.25 in. x 35 ft, waste oil evacuation, npt 126688 HOSE, coupled, 1.25 in. x 50 ft, waste oil evacuation, npt 126780 HOSE, coupled, 1 in. x 75 ft, fuel, npt 12688 HOSE, coupled, 1 in. x 75 ft, fuel, npt 12688 HOSE, coupled, 1 in. x 75 ft, fuel, npt 12688 HOSE, coupled, 1 in. x 75 ft, fuel, npt 12688 HOSE, coupled, 1 in. x 75 ft, fuel, npt 12688 HOSE, coupled, 1 in. x 75 ft, fuel, npt 12688 HOSE, coupled, 1 in. x 50 ft, fuel, npt 12688 HOSE, coupled, 1 in. x 50 ft, fuel, npt 12688 HOSE, coupled, 1.25 in. x 50 ft, fuel, npt 12688 HOSE, coupled, 1.25 in. x 50 ft, fuel, npt		• • •
126375 HOSE, coupled, 1/2 in. x 100 ft, oil, npt 126376 HOSE, coupled, 3/4 in. x 75 ft, oil, npt 126377 HOSE, coupled, 3/4 in. x 100 ft, oil, npt 126503 HOSE, coupled, 1 in. x 50 ft, oil, npt 126379 HOSE, coupled, 1 in. x 50 ft, waste oil evacuation, npt 126363 HOSE, coupled, 1 in. x 50 ft, fuel, npt 126363 HOSE, coupled, 1 in. x 75 ft, air/water, npt 126364 HOSE, coupled, 1 in. x 100 ft, air/water, npt 126504 HOSE, coupled, 1 in. x 75 ft, oil, npt 126380 HOSE, coupled, 1.25 in. x 35 ft, waste oil evacuation, npt 126688 HOSE, coupled, 1.25 in. x 50 ft, waste oil evacuation, npt 12670 HOSE, coupled, 1 in. x 75 ft, fuel, npt 12688 HOSE, coupled, 1 in. x 75 ft, fuel, npt 12689 HOSE, coupled, 1 in. x 75 ft, fuel, npt 12680 HOSE, coupled, 1 in. x 75 ft, fuel, npt 12681 HOSE, coupled, 1 in. x 100 ft, fuel, npt 12681 HOSE, coupled, 1.25 in. x 35 ft, fuel, npt 12681 HOSE, coupled, 1.25 in. x 35 ft, fuel, npt	126361	HOSE, coupled, 3/4 in. x 100 ft, air/water, npt
126376 HOSE, coupled, 3/4 in. x 75 ft, oil, npt 126377 HOSE, coupled, 3/4 in. x 100 ft, oil, npt 126503 HOSE, coupled, 1 in. x 50 ft, oil, npt 126379 HOSE, coupled, 1 in. x 50 ft, waste oil evacuation, npt 126363 HOSE, coupled, 1 in. x 50 ft, fuel, npt 126364 HOSE, coupled, 1 in. x 75 ft, air/water, npt 126364 HOSE, coupled, 1 in. x 100 ft, air/water, npt 126380 HOSE, coupled, 1 in. x 75 ft, oil, npt 126380 HOSE, coupled, 1.25 in. x 35 ft, waste oil evacuation, npt 126688 HOSE, coupled, 1.25 in. x 50 ft, waste oil evacuation, npt 12670 HOSE, coupled, 1 in. x 75 ft, fuel, npt 126710 HOSE, coupled, 1 in. x 75 ft, fuel, npt 126710 HOSE, coupled, 1 in. x 35 ft, fuel, npt 126710 HOSE, coupled, 1.25 in. x 35 ft, fuel, npt 126710 HOSE, coupled, 1.25 in. x 50 ft, fuel, npt 126710 HOSE, coupled, 1.25 in. x 50 ft, fuel, npt	126362	
126377 HOSE, coupled, 3/4 in. x 100 ft, oil, npt 126503 HOSE, coupled, 1 in. x 50 ft, oil, npt 126379 HOSE, coupled, 1 in. x 50 ft, waste oil evacuation, npt 24R102 HOSE, coupled, 1 in. x 50 ft, fuel, npt 126363 HOSE, coupled, 1 in. x 75 ft, air/water, npt 126364 HOSE, coupled, 1 in. x 100 ft, air/water, npt 126304 HOSE, coupled, 1 in. x 75 ft, oil, npt 126380 HOSE, coupled, 1.25 in. x 35 ft, waste oil evacuation, npt 126688 HOSE, coupled, 1.25 in. x 50 ft, waste oil evacuation, npt 12670 HOSE, coupled, 1 in. x 75 ft, fuel, npt 12681 HOSE, coupled, 1 in. x 100 ft, fuel, npt 12681 HOSE, coupled, 1.25 in. x 35 ft, fuel, npt 12681 HOSE, coupled, 1.25 in. x 35 ft, fuel, npt 12681 HOSE, coupled, 1.25 in. x 50 ft, fuel, npt 12681 HOSE, coupled, 1.25 in. x 50 ft, fuel, npt	126375	HOSE, coupled, 1/2 in. x 100 ft, oil, npt
126503 HOSE, coupled, 1 in. x 50 ft, oil, npt 126379 HOSE, coupled, 1 in. x 50 ft, waste oil evacuation, npt 24R102 HOSE, coupled, 1 in. x 50 ft, fuel, npt 126363 HOSE, coupled, 1 in. x 75 ft, air/water, npt 126364 HOSE, coupled, 1 in. x 100 ft, air/water, npt 126504 HOSE, coupled, 1 in. x 75 ft, oil, npt 126380 HOSE, coupled, 1.25 in. x 35 ft, waste oil evacuation, npt 126688 HOSE, coupled, 1.25 in. x 50 ft, waste oil evacuation, npt 24R103 HOSE, coupled, 1 in. x 75 ft, fuel, npt 24R106 HOSE, coupled, 1 in. x 100 ft, fuel, npt 24R108 HOSE, coupled, 1.25 in. x 35 ft, fuel, npt 24R108 HOSE, coupled, 1.25 in. x 35 ft, fuel, npt	126376	HOSE, coupled, 3/4 in. x 75 ft, oil, npt
HOSE, coupled, 1 in. x 50 ft, waste oil evacuation, npt HOSE, coupled, 1 in. x 50 ft, fuel, npt HOSE, coupled, 1 in. x 75 ft, air/water, npt HOSE, coupled, 1 in. x 100 ft, air/water, npt HOSE, coupled, 1 in. x 75 ft, oil, npt HOSE, coupled, 1 in. x 35 ft, waste oil evacuation, npt HOSE, coupled, 1.25 in. x 35 ft, waste oil evacuation, npt HOSE, coupled, 1 in. x 75 ft, fuel, npt HOSE, coupled, 1 in. x 75 ft, fuel, npt HOSE, coupled, 1 in. x 100 ft, fuel, npt HOSE, coupled, 1.25 in. x 35 ft, fuel, npt HOSE, coupled, 1.25 in. x 35 ft, fuel, npt HOSE, coupled, 1.25 in. x 50 ft, fuel, npt	126377	HOSE, coupled, 3/4 in. x 100 ft, oil, npt
ation, npt 24R102 HOSE, coupled, 1 in. x 50 ft, fuel, npt 126363 HOSE, coupled, 1 in. x 75 ft, air/water, npt 126364 HOSE, coupled, 1 in. x 100 ft, air/water, npt 126504 HOSE, coupled, 1 in. x 75 ft, oil, npt 126380 HOSE, coupled, 1.25 in. x 35 ft, waste oil evacuation, npt 126688 HOSE, coupled, 1.25 in. x 50 ft, waste oil evacuation, npt 24R103 HOSE, coupled, 1 in. x 75 ft, fuel, npt 24R106 HOSE, coupled, 1 in. x 100 ft, fuel, npt 24R108 HOSE, coupled, 1.25 in. x 35 ft, fuel, npt 24R110 HOSE, coupled, 1.25 in. x 50 ft, fuel, npt	126503	HOSE, coupled, 1 in. x 50 ft, oil, npt
24R102 HOSE, coupled, 1 in. x 50 ft, fuel, npt 126363 HOSE, coupled, 1 in. x 75 ft, air/water, npt 126364 HOSE, coupled, 1 in. x 100 ft, air/water, npt 126504 HOSE, coupled, 1 in. x 75 ft, oil, npt 126380 HOSE, coupled, 1.25 in. x 35 ft, waste oil evacuation, npt 126688 HOSE, coupled, 1.25 in. x 50 ft, waste oil evacuation, npt 24R103 HOSE, coupled, 1 in. x 75 ft, fuel, npt 24R106 HOSE, coupled, 1 in. x 100 ft, fuel, npt 24R108 HOSE, coupled, 1.25 in. x 35 ft, fuel, npt 24R110 HOSE, coupled, 1.25 in. x 50 ft, fuel, npt	126379	HOSE, coupled, 1 in. x 50 ft, waste oil evacu-
126363 HOSE, coupled, 1 in. x 75 ft, air/water, npt 126364 HOSE, coupled, 1 in. x 100 ft, air/water, npt 126504 HOSE, coupled, 1 in. x 75 ft, oil, npt 126380 HOSE, coupled, 1.25 in. x 35 ft, waste oil evacuation, npt 126688 HOSE, coupled, 1.25 in. x 50 ft, waste oil evacuation, npt 24R103 HOSE, coupled, 1 in. x 75 ft, fuel, npt 24R106 HOSE, coupled, 1 in. x 100 ft, fuel, npt 24R108 HOSE, coupled, 1.25 in. x 35 ft, fuel, npt 24R110 HOSE, coupled, 1.25 in. x 50 ft, fuel, npt		•
126364 HOSE, coupled, 1 in. x 100 ft, air/water, npt 126504 HOSE, coupled, 1 in. x 75 ft, oil, npt 126380 HOSE, coupled, 1.25 in. x 35 ft, waste oil evacuation, npt 126688 HOSE, coupled, 1.25 in. x 50 ft, waste oil evacuation, npt 24R103 HOSE, coupled, 1 in. x 75 ft, fuel, npt 24R106 HOSE, coupled, 1 in. x 100 ft, fuel, npt 24R108 HOSE, coupled, 1.25 in. x 35 ft, fuel, npt 24R110 HOSE, coupled, 1.25 in. x 50 ft, fuel, npt	24R102	HOSE, coupled, 1 in. x 50 ft, fuel, npt
126504 HOSE, coupled, 1 in. x 75 ft, oil, npt 126380 HOSE, coupled, 1.25 in. x 35 ft, waste oil evacuation, npt 126688 HOSE, coupled, 1.25 in. x 50 ft, waste oil evacuation, npt 24R103 HOSE, coupled, 1 in. x 75 ft, fuel, npt 24R106 HOSE, coupled, 1 in. x 100 ft, fuel, npt 24R108 HOSE, coupled, 1.25 in. x 35 ft, fuel, npt 24R110 HOSE, coupled, 1.25 in. x 50 ft, fuel, npt	126363	HOSE, coupled, 1 in. x 75 ft, air/water, npt
126380 HOSE, coupled, 1.25 in. x 35 ft, waste oil evacuation, npt 126688 HOSE, coupled, 1.25 in. x 50 ft, waste oil evacuation, npt 24R103 HOSE, coupled, 1 in. x 75 ft, fuel, npt 24R106 HOSE, coupled, 1 in. x 100 ft, fuel, npt 24R108 HOSE, coupled, 1.25 in. x 35 ft, fuel, npt 24R110 HOSE, coupled, 1.25 in. x 50 ft, fuel, npt	126364	HOSE, coupled, 1 in. x 100 ft, air/water, npt
evacuation, npt 126688 HOSE, coupled, 1.25 in. x 50 ft, waste oil evacuation, npt 24R103 HOSE, coupled, 1 in. x 75 ft, fuel, npt 24R106 HOSE, coupled, 1 in. x 100 ft, fuel, npt 24R108 HOSE, coupled, 1.25 in. x 35 ft, fuel, npt 24R110 HOSE, coupled, 1.25 in. x 50 ft, fuel, npt	126504	HOSE, coupled, 1 in. x 75 ft, oil, npt
126688 HOSE, coupled, 1.25 in. x 50 ft, waste oil evacuation, npt 24R103 HOSE, coupled, 1 in. x 75 ft, fuel, npt 24R106 HOSE, coupled, 1 in. x 100 ft, fuel, npt 24R108 HOSE, coupled, 1.25 in. x 35 ft, fuel, npt 24R110 HOSE, coupled, 1.25 in. x 50 ft, fuel, npt	126380	HOSE, coupled, 1.25 in. x 35 ft, waste oil
evacuation, npt 24R103 HOSE, coupled, 1 in. x 75 ft, fuel, npt 24R106 HOSE, coupled, 1 in. x 100 ft, fuel, npt 24R108 HOSE, coupled, 1.25 in. x 35 ft, fuel, npt 24R110 HOSE, coupled, 1.25 in. x 50 ft, fuel, npt		evacuation, npt
24R103 HOSE, coupled, 1 in. x 75 ft, fuel, npt 24R106 HOSE, coupled, 1 in. x 100 ft, fuel, npt 24R108 HOSE, coupled, 1.25 in. x 35 ft, fuel, npt 24R110 HOSE, coupled, 1.25 in. x 50 ft, fuel, npt	126688	HOSE, coupled, 1.25 in. x 50 ft, waste oil
24R106 HOSE, coupled, 1 in. x 100 ft, fuel, npt 24R108 HOSE, coupled, 1.25 in. x 35 ft, fuel, npt 24R110 HOSE, coupled, 1.25 in. x 50 ft, fuel, npt		· •
24R108 HOSE, coupled, 1.25 in. x 35 ft, fuel, npt 24R110 HOSE, coupled, 1.25 in. x 50 ft, fuel, npt	24R103	HOSE, coupled, 1 in. x 75 ft, fuel, npt
24R110 HOSE, coupled, 1.25 in. x 50 ft, fuel, npt	24R106	HOSE, coupled, 1 in. x 100 ft, fuel, npt
	24R108	HOSE, coupled, 1.25 in. x 35 ft, fuel, npt
24R114 HOSE, coupled, 1.25 in. x 50 ft, fuel. npt	24R110	HOSE, coupled, 1.25 in. x 50 ft, fuel, npt
, , , , , , , , , , , , , , , , , , , ,	24R114	HOSE, coupled, 1.25 in. x 50 ft, fuel, npt

Miscellaneous Kits

Ref	Part No.	Description	Qty
100	24R111	KIT, inlet hose, 1 in., air/water	1
		and oil, includes:	
100a		• FITTING, swivel, 1 in., MXF	1
100b		HOSE, coupled, 1 in. x 28 in.,	1
		oil	
100	24R112	KIT, inlet hose, 1 in., waste oil	1
		evacuation, includes:	
100a		FITTING, swivel, 1 in. MXF	1
100b		HOSE, coupled, 1 in. x 28 in.	1
		WOE	

Ref	Part No.	Description	Qty
100	24R115	KIT, inlet hose, 1 in., fuel,	1
		includes:	
100a		FITTING, swivel, 1 in. MXF	1
100b		HOSE, coupled, 1 in. x 28 in.	1
		fuel	
100	24R117	KIT, inlet hose, 1.5 in., fuel,	1
		includes:	
100a		UNION, swivel, 1.5 in. npt	1
100b		HOSE, coupled, 1.5 in. x 28 in.	1
		fuel	
100	24R118	KIT, inlet hose, includes:	
100a		• UNION, swivel, male 2.0 in.	1
100b		• HOSE, coupled, 2.0 in. x 28 in.,	1
		fuel	
100	24T858	KIT, inlet hose, 1.5 in. WOE,	1
		includes:	-
100a	1	• UNION, swivel, 1.5 in. NPT	
100b	-	• HOSE, coupled,1.5 in. x 28 in.,	
1005		WOE	
101	126963	KIT, adapter, hydraulic motor,	1
101	120000	included in kit 24T858	'
	24R067	KIT, swivel, 1 in., includes 4, 6, 7	1
	24R068	KIT, swivel, 1.5 in., includes, 4,	1
	240000	6, 7	'
	24R116	KIT, swivel, 2 in., includes 4, 6, 7	1
	24R070	KIT, repair, low pressure bear-	
		ing, inlet side, includes 4, 5, 8,	
	24R071	KIT, repair, medium pressure	1
		bearing, inlet side, includes 4, 5,	
		8, 13-16	
		KIT, outlet, 1/2 in., npt, models	1
	24R053	XD 6010 and XD 8010, includes	
		17-19	
		KIT, outlet, 3/4 in., npt, models	1
	24R055	XD 6010 and XD 8010, includes	
		17-19	
		KIT, outlet, 1 in., npt, models XD	1
	24R056	6010 and XD 8010, includes	
		17-19	
		KIT, outlet, replacement, 1 in.,	1
	24R057	npt, models XD 7010, includes	
		17-19	
	040050	KIT, outlet, replacement, 1-1/4	1
	24R058	in., npt, XD 7015, includes 17-19	
		KIT, outlet, replacement, 1.5 in.,	1
	24R059	npt, used with XD 7015 models,	
		includes 17-19	
	24T339	KIT, outlet replacement, 1.5 in.,	1
		npt, used with XD 8015 models,	
		includes 17-19	
	1		1

Ref	Part No.	Description	Qty
	24T340	KIT, outlet replacement, 2 in.,	1
		npt, used with XD 7020 models,	
		includes 17-19	
	24T341	KIT, outlet replacement, 2.0 in.,	1
		npt, used with XD 8020 models,	
		includes 17-19	
	24T338	KIT, power side shaft replace-	1
		ment, includes 9, 20	
	24T432	KIT, power side bearing replace-	1
		ment, includes 22-24	
	24T857	KIT, brake repair, includes 24,	1
	107014	33-39	
	127214	SWITCH, momentary, with cover	
	127217	KIT, SWITCH, hazardous loca-	1
		tion, ON/OFF	
	127260	COVER, explosion proof junc-	1
	107001	tion box	
	127261	BASE, explosion proof box	1
	127262	BUTTON, hazardous location rated	1
	127218	BOX, outlet, hazardous location	1
	127219	CONTACT, 12 VDC, intermittent	1
	12/219	duty	'
	127220	CONTACT, 24 VDC intermittent	1
		duty	
	127221	CIRCUIT BREAKER, 50 AMP	1
	127222	CIRCUIT BREAKER, 25 AMP	1
	24T327◆	KIT, SST fairlead, XD 60	1
	24T328◆	KIT, SST fairlead, XD 70	1
	24T329◆	KIT, SST fairlead, XD 80	1
		REEL, fairlead, non-roller	1
		• SCREW, cap, hex head	4
		NUT, hex, flange head	4

[◆] Parts not compatible with ball stops - 1/2 in. (PN222225), 3/4 in. (PN218341), and 1 in. (PN 237872).

Ref	Part No.	Description	Qty
	24R072	KIT, roller guide with bracket, XD	1
		60 models	
	24T330	KIT, roller guide with bracket, XD	1
		70 models	
	24T331	KIT, roller guide with bracket, XD	1
		80 models	
		SCREW, cap, flange head	4
		NUT, hex, flange head	8
		SCREW, cap, flange head	4
		POST, corner	4
		PLATE, roller	1
		PIN, roller, short	2
		TUBE, roller, short	2
		PIN, roller, long	2 2 2
		TUBE, roller, long	2
		CAP, roller	8
	24T332◆	KIT, arms, XD 60, with SST	1
		guide	
	24T333◆	KIT, arms, XD 70, with SST	1
		guide	
		WASHER, plain	4
		SCREW, cap, flange head	12
		NUT, hex, flange head	12
		REEL, fairlead, non-roller	1
		SUPPORT, roller arm 1	1
		SUPPORT, roller arm 2	1
	24T334◆	KIT, arms, XD 80, with SST	1
		guide	
		SCREW, cap, flange head	12
		NUT, hex, flange head	12
		REEL, fairlead, non-roller	1
		SUPPORT, roller arm 1	1
		SUPPORT, roller arm 2	1

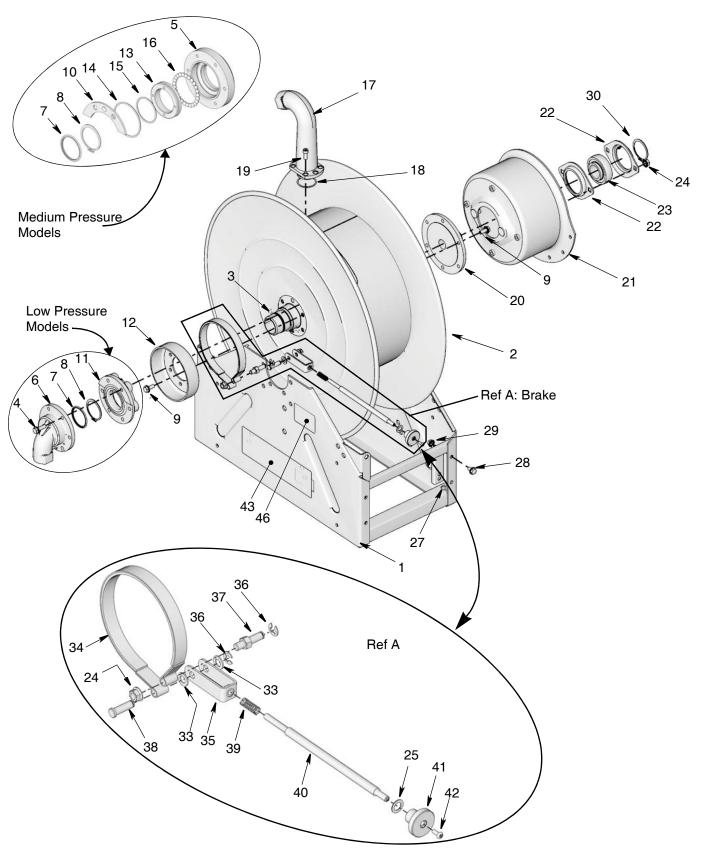
Z4T335 KIT, arms, XD 60, with roller guide 24T336 KIT, arms, XD 70, with roller guide • WASHER, plain • SCREW, cap, flange head • NUT, hex, flange head • SCREW, cap, flange head • POST, corner • SUPPORT, roller arm 1 • SUPPORT, roller arm 2 • PIN, roller, short • TUBE, roller, long • TUBE, roller, long • CAP, roller • PLATE, roller 24T337 KIT, arms, XD 80, with roller guide • SCREW, cap, flange head • NUT, hex, flange head • NUT, hex, flange head • SCREW, cap, flange head • POST, corner • SUPPORT, roller arm 1 • SUPPORT, roller arm 2 • PIN, roller, short • TUBE, roller, short • TUBE, roller, long • TUBE, roller, long • TUBE, roller, long • TUBE, roller, long • CAP, roller • PLATE, roller • PACKING, o-ring • SWIVEL, outlet, 1.0 in., mach,	1
XIT, arms, XD 70, with roller guide WASHER, plain SCREW, cap, flange head NUT, hex, flange head SCREW, cap, flange head SCREW, cap, flange head POST, corner SUPPORT, roller arm 1 SUPPORT, roller arm 2 PIN, roller, short TUBE, roller, long TUBE, roller, long CAP, roller PLATE, roller PLATE, roller SCREW, cap, flange head NUT, hex, flange head SCREW, cap, flange head SCREW, cap, flange head POST, corner SUPPORT, roller arm 1 SUPPORT, roller arm 2 PIN, roller, short TUBE, roller, short TUBE, roller, short TUBE, roller, long TUBE, roller, long TUBE, roller, long TUBE, roller, long TUBE, roller PLATE, roller PACKING, 0-ring	1
guide • WASHER, plain • SCREW, cap, flange head • NUT, hex, flange head • SCREW, cap, flange head • POST, corner • SUPPORT, roller arm 1 • SUPPORT, roller arm 2 • PIN, roller, short • PIN, roller, long • TUBE, roller, long • CAP, roller • PLATE, roller 24T337 KIT, arms, XD 80, with roller guide • SCREW, cap, flange head • NUT, hex, flange head • NUT, hex, flange head • POST, corner • SUPPORT, roller arm 1 • SUPPORT, roller arm 1 • SUPPORT, roller arm 2 • PIN, roller, short • TUBE, roller, short • TUBE, roller, long • TUBE, roller, long • TUBE, roller, long • CAP, roller • PLATE, roller	1
• WASHER, plain • SCREW, cap, flange head • NUT, hex, flange head • SCREW, cap, flange head • POST, corner • SUPPORT, roller arm 1 • SUPPORT, roller arm 2 • PIN, roller, short • TUBE, roller, long • TUBE, roller, long • CAP, roller • PLATE, roller 24T337 KIT, arms, XD 80, with roller guide • SCREW, cap, flange head • NUT, hex, flange head • NUT, hex, flange head • POST, corner • SUPPORT, roller arm 1 • SUPPORT, roller arm 2 • PIN, roller, short • TUBE, roller, short • TUBE, roller, long • TUBE, roller, long • TUBE, roller, long • TUBE, roller • PLATE, roller • PLATE, roller	
• SCREW, cap, flange head • NUT, hex, flange head • SCREW, cap, flange head • POST, corner • SUPPORT, roller arm 1 • SUPPORT, roller arm 2 • PIN, roller, short • TUBE, roller, long • TUBE, roller, long • CAP, roller • PLATE, roller 24T337 KIT, arms, XD 80, with roller guide • SCREW, cap, flange head • NUT, hex, flange head • NUT, hex, flange head • POST, corner • SUPPORT, roller arm 1 • SUPPORT, roller arm 2 • PIN, roller, short • TUBE, roller, short • TUBE, roller, long • TUBE, roller • PLATE, roller 24T359 KIT, BSPP conversion, 1 in. LONG, XD 60 / XD 80 models • PACKING, o-ring	
NUT, hex, flange head SCREW, cap, flange head POST, corner SUPPORT, roller arm 1 SUPPORT, roller arm 2 PIN, roller, short TUBE, roller, long TUBE, roller, long CAP, roller PLATE, roller SCREW, cap, flange head NUT, hex, flange head NUT, hex, flange head SCREW, cap, flange head SCREW, cap, flange head SCREW, cap, flange head POST, corner SUPPORT, roller arm 1 SUPPORT, roller arm 2 PIN, roller, short TUBE, roller, short TUBE, roller, long TUBE, roller, long TUBE, roller, long TUBE, roller, long TUBE, roller PLATE, roller PLATE, roller PLATE, roller PLATE, roller PACKING, o-ring	
• SCREW, cap, flange head • POST, corner • SUPPORT, roller arm 1 • SUPPORT, roller arm 2 • PIN, roller, short • TUBE, roller, long • TUBE, roller, long • CAP, roller • PLATE, roller 24T337 KIT, arms, XD 80, with roller guide • SCREW, cap, flange head • NUT, hex, flange head • NUT, hex, flange head • POST, corner • SUPPORT, roller arm 1 • SUPPORT, roller arm 2 • PIN, roller, short • TUBE, roller, short • TUBE, roller, long • TUBE, roller, long • CAP, roller • PLATE, roller 24T359 KIT, BSPP conversion, 1 in. LONG, XD 60 / XD 80 models • PACKING, o-ring	12
POST, corner SUPPORT, roller arm 1 SUPPORT, roller arm 2 PIN, roller, short TUBE, roller, short PIN, roller, long TUBE, roller, long CAP, roller PLATE, roller PLATE, roller SCREW, cap, flange head NUT, hex, flange head SCREW, cap, flange head POST, corner SUPPORT, roller arm 1 SUPPORT, roller arm 2 PIN, roller, short TUBE, roller, long TUBE, roller, long TUBE, roller, long TUBE, roller PLATE, roller PLATE, roller PLATE, roller PLATE, roller PLATE, roller PACKING, o-ring	16
• SUPPORT, roller arm 1 • SUPPORT, roller arm 2 • PIN, roller, short • TUBE, roller, short • PIN, roller, long • TUBE, roller, long • TUBE, roller • PLATE, roller 24T337 KIT, arms, XD 80, with roller guide • SCREW, cap, flange head • NUT, hex, flange head • NUT, hex, flange head • SCREW, cap, flange head • POST, corner • SUPPORT, roller arm 1 • SUPPORT, roller arm 2 • PIN, roller, short • TUBE, roller, short • TUBE, roller, long • TUBE, roller, long • CAP, roller • PLATE, roller 24T359 KIT, BSPP conversion, 1 in. LONG, XD 60 / XD 80 models • PACKING, o-ring	4
SUPPORT, roller arm 2 PIN, roller, short TUBE, roller, short PIN, roller, long TUBE, roller, long CAP, roller PLATE, roller PLATE, roller SCREW, cap, flange head NUT, hex, flange head SCREW, cap, flange head SCREW, cap, flange head POST, corner SUPPORT, roller arm 1 SUPPORT, roller arm 2 PIN, roller, short TUBE, roller, short PIN, roller, long TUBE, roller, long CAP, roller PLATE, roller PLATE, roller PACKING, o-ring PACKING, o-ring	
PIN, roller, short TUBE, roller, short PIN, roller, long TUBE, roller, long CAP, roller PLATE, roller PLATE, roller SCREW, cap, flange head NUT, hex, flange head SCREW, cap, flange head SCREW, cap, flange head SCREW, cap, flange head POST, corner SUPPORT, roller arm 1 SUPPORT, roller arm 2 PIN, roller, short TUBE, roller, short PIN, roller, long TUBE, roller, long CAP, roller PLATE, roller PLATE, roller PLATE, roller PACKING, o-ring	1
• TUBE, roller, short • PIN, roller, long • TUBE, roller, long • CAP, roller • PLATE, roller 24T337 KIT, arms, XD 80, with roller guide • SCREW, cap, flange head • NUT, hex, flange head • NUT, hex, flange head • SCREW, cap, flange head • POST, corner • SUPPORT, roller arm 1 • SUPPORT, roller arm 2 • PIN, roller, short • TUBE, roller, short • TUBE, roller, long • TUBE, roller, long • CAP, roller • PLATE, roller 24T359 KIT, BSPP conversion, 1 in. LONG, XD 60 / XD 80 models • PACKING, o-ring	1
PIN, roller, long TUBE, roller, long CAP, roller PLATE, roller PLATE, roller PLATE, roller SCREW, cap, flange head NUT, hex, flange head SCREW, cap, flange head SCREW, cap, flange head SCREW, cap, flange head SCREW, cap, flange head POST, corner SUPPORT, roller arm 1 SUPPORT, roller arm 2 PIN, roller, short TUBE, roller, short PIN, roller, long TUBE, roller, long CAP, roller PLATE, roller PLATE, roller PACKING, o-ring	
TUBE, roller, long CAP, roller PLATE, roller VIT, arms, XD 80, with roller guide SCREW, cap, flange head NUT, hex, flange head SCREW, cap, flange head SCREW, cap, flange head SCREW, cap, flange head SCREW, cap, flange head POST, corner SUPPORT, roller arm 1 SUPPORT, roller arm 2 PIN, roller, short TUBE, roller, short PIN, roller, long TUBE, roller, long CAP, roller PLATE, roller VIT, BSPP conversion, 1 in. LONG, XD 60 / XD 80 models PACKING, o-ring	2
CAP, roller PLATE, roller 24T337 KIT, arms, XD 80, with roller guide SCREW, cap, flange head NUT, hex, flange head SCREW, cap, flange head SCREW, cap, flange head SCREW, cap, flange head SCREW, cap, flange head POST, corner SUPPORT, roller arm 1 SUPPORT, roller arm 2 PIN, roller, short TUBE, roller, short PIN, roller, long TUBE, roller, long CAP, roller PLATE, roller 24T359 KIT, BSPP conversion, 1 in. LONG, XD 60 / XD 80 models PACKING, o-ring	2
PLATE, roller XIT, arms, XD 80, with roller guide SCREW, cap, flange head NUT, hex, flange head SCREW, cap, flange head SCREW, cap, flange head SCREW, cap, flange head SCREW, cap, flange head POST, corner SUPPORT, roller arm 1 SUPPORT, roller arm 2 PIN, roller, short TUBE, roller, short PIN, roller, long TUBE, roller, long CAP, roller PLATE, roller VIT, BSPP conversion, 1 in. LONG, XD 60 / XD 80 models PACKING, o-ring	2
PLATE, roller XIT, arms, XD 80, with roller guide SCREW, cap, flange head NUT, hex, flange head SCREW, cap, flange head SCREW, cap, flange head SCREW, cap, flange head SCREW, cap, flange head POST, corner SUPPORT, roller arm 1 SUPPORT, roller arm 2 PIN, roller, short TUBE, roller, short PIN, roller, long TUBE, roller, long CAP, roller PLATE, roller VIT, BSPP conversion, 1 in. LONG, XD 60 / XD 80 models PACKING, o-ring	8
24T337 KIT, arms, XD 80, with roller guide SCREW, cap, flange head NUT, hex, flange head SCREW, cap, flange head POST, corner SUPPORT, roller arm 1 SUPPORT, roller arm 2 PIN, roller, short TUBE, roller, short PIN, roller, long TUBE, roller, long CAP, roller PLATE, roller PLATE, roller VIT, BSPP conversion, 1 in. LONG, XD 60 / XD 80 models PACKING, o-ring	2 2 2 8 1
guide • SCREW, cap, flange head • NUT, hex, flange head • SCREW, cap, flange head • SCREW, cap, flange head • POST, corner • SUPPORT, roller arm 1 • SUPPORT, roller arm 2 • PIN, roller, short • TUBE, roller, short • PIN, roller, long • TUBE, roller, long • CAP, roller • PLATE, roller 24T359 KIT, BSPP conversion, 1 in. LONG, XD 60 / XD 80 models • PACKING, o-ring	1
NUT, hex, flange head SCREW, cap, flange head POST, corner SUPPORT, roller arm 1 SUPPORT, roller arm 2 PIN, roller, short TUBE, roller, short PIN, roller, long TUBE, roller, long CAP, roller PLATE, roller VIT, BSPP conversion, 1 in. LONG, XD 60 / XD 80 models PACKING, o-ring	
NUT, hex, flange head SCREW, cap, flange head POST, corner SUPPORT, roller arm 1 SUPPORT, roller arm 2 PIN, roller, short TUBE, roller, short PIN, roller, long TUBE, roller, long CAP, roller PLATE, roller VIT, BSPP conversion, 1 in. LONG, XD 60 / XD 80 models PACKING, o-ring	12
SCREW, cap, flange head POST, corner SUPPORT, roller arm 1 SUPPORT, roller arm 2 PIN, roller, short TUBE, roller, short PIN, roller, long TUBE, roller, long CAP, roller PLATE, roller VITUBE, roller PLATE, roller PLATE, roller PLATE, roller PACKING, o-ring	16
POST, corner SUPPORT, roller arm 1 SUPPORT, roller arm 2 PIN, roller, short TUBE, roller, short PIN, roller, long TUBE, roller, long CAP, roller PLATE, roller VITUBE, roller PLATE, roller PLATE, roller PLATE, roller PLATE, roller PACKING, o-ring	
SUPPORT, roller arm 1 SUPPORT, roller arm 2 PIN, roller, short TUBE, roller, short PIN, roller, long TUBE, roller, long CAP, roller PLATE, roller 24T359 KIT, BSPP conversion, 1 in. LONG, XD 60 / XD 80 models PACKING, o-ring	
SUPPORT, roller arm 2 PIN, roller, short TUBE, roller, short PIN, roller, long TUBE, roller, long CAP, roller PLATE, roller 24T359 KIT, BSPP conversion, 1 in. LONG, XD 60 / XD 80 models PACKING, o-ring	1
PIN, roller, short TUBE, roller, short PIN, roller, long TUBE, roller, long CAP, roller PLATE, roller 24T359 KIT, BSPP conversion, 1 in. LONG, XD 60 / XD 80 models PACKING, o-ring	1
TUBE, roller, short PIN, roller, long TUBE, roller, long CAP, roller PLATE, roller PLATE, roller 24T359 KIT, BSPP conversion, 1 in. LONG, XD 60 / XD 80 models PACKING, o-ring	
PIN, roller, long TUBE, roller, long CAP, roller PLATE, roller 24T359 KIT, BSPP conversion, 1 in. LONG, XD 60 / XD 80 models PACKING, o-ring	
TUBE, roller, long CAP, roller PLATE, roller PLATE, roller 24T359 KIT, BSPP conversion, 1 in. LONG, XD 60 / XD 80 models PACKING, o-ring	
CAP, roller PLATE, roller 24T359 KIT, BSPP conversion, 1 in. LONG, XD 60 / XD 80 models PACKING, o-ring	2 2 2 8 1
PLATE, roller 24T359 KIT, BSPP conversion, 1 in. LONG, XD 60 / XD 80 models PACKING, o-ring	
24T359 KIT, BSPP conversion, 1 in. LONG, XD 60 / XD 80 models • PACKING, o-ring	
LONG, XD 60 / XD 80 models • PACKING, o-ring	1
PACKING, o-ring	
	1
	1
BSPP	
• ADAPTER, 1 in. NPT x 1 in.	1
BSPP	
• SCREW, 5/16-18 x 0.75 in.	6
24T360 KIT, BSPT conversion, 1 in.	1
LONG, XD 60 / XD 80 models	
PACKING, o-ring	1
• SWIVEL, outlet, 1.0 in., mach,	1
BSPT	
• ADAPTER, 1 in. NPT x 1 in.	1
BSPT	
• SCREW, 5/16-18 x 0.75 in.	6

Ref	Part No.	Description	Qty
	24T361	KIT, BSPP conversion, 1 in.	1
		SHORT, XD 70 models	
		PACKING, o-ring	1
		• SWIVEL, outlet, 1.0 in., mach,	1
		BSPP	
		• ADAPTER, 1 in. NPT x 1 in.	1
		BSPP	
		• SCREW, 5/16-18 x 0.75 in.	6
	24T362	KIT, BSPT conversion, 1 in.	1
		SHORT, XD 70 models	
		PACKING, o-ring	1
		• SWIVEL, outlet, 1.0 in., mach,	1
		BSPT	
		• ADAPTER, 1 in. NPT x 1 in.	1
		BSPT	
		• SCREW, 5/16-18 x 0.75 in.	6
	24T363	KIT, BSPP conversion, 1.5 in.	1
		LONG, XD 80 models	
		PACKING, o-ring	1
		SWIVEL, outlet, 1.5 in., BSPP	1
		• ADAPTER, 1.5 in. NPT x 1.5 in.	1
		BSPP	
		• SCREW, 5/16-18 x 0.75 in.	4
	24T364	KIT, BSPT conversion, 1.5 in.	1
		LONG, XD 80 models	
		PACKING, o-ring	1
		SWIVEL, outlet, 1.5 in., BSPT	1
		• ADAPTER, 1.5 in. NPT x 1.5 in.	1
		BSPT	
		• SCREW, 5/16-18 x 0.75 in.	4
	24T365	KIT, BSPP conversion, 1.5 in.	1
		SHORT, XD 70 models	
		PACKING, o-ring	1
		SWIVEL, outlet, 1.5 in., BSPP	1
		• ADAPTER, 1.5 in. NPT x 1.5 in.	1
		BSPP	
		• SCREW, 5/16-18 x 0.75 in.	4
	24T366	KIT, BSPT conversion, 1.5 in.	1
		SHORT, XD 70 models	
		PACKING, o-ring	1
		• SWIVEL, outlet, 1.5 in., BSPT	1
		• ADAPTER, 1.5 in. NPT x 1.5 in.	1
		BSPT	
		• SCREW, 5/16-18 x 0.75 in.	4
<u> </u>	1	,	

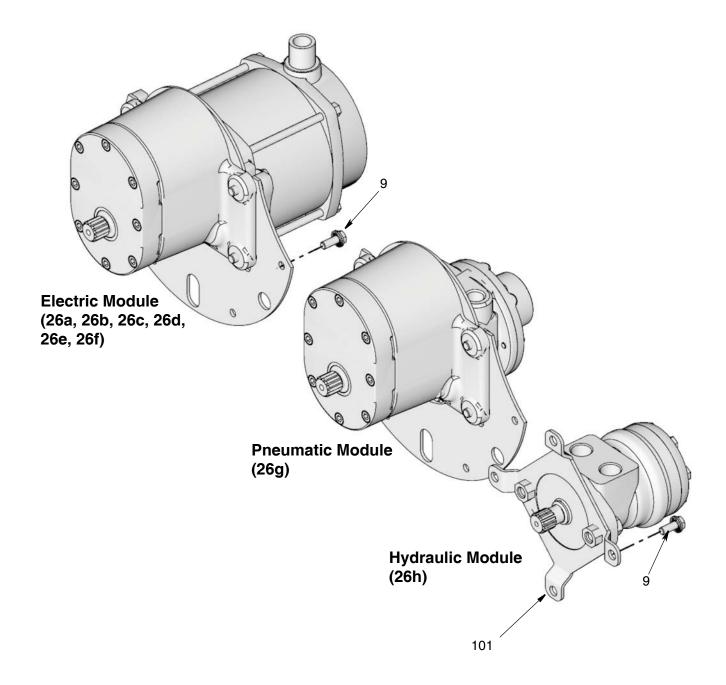
Ref	Part No.	•	Qty
	24T367	KIT, BSPT conversion, 2 in.	1
		LONG, XD 80 models	
		PACKING, o-ring	1
		• SWIVEL, outlet, 2 in., BSPT	1
		• ADAPTER, 2 in. NPT x 2 in. BSPT	1
		• SCREW, 5/16-18 x 0.75 in.	4
	24T368	KIT, BSPT conversion, 2 in. SHORT, XD 70 models	1
		PACKING, o-ring	1
		SWIVEL, outlet, 2 in., BSPT	1
		• ADAPTER, 2 in. NPT x 2 in. BSPT	1
		• SCREW, 5/16-18 x 0.75 in.	4
	24T855	KIT, BSPP conversion, 2 in.	1
		LONG, XD 80 models	
		PACKING, o-ring	1
		SWIVEL, outlet, 2 in., BSPP	1
		• ADAPTER, 2 in. NPT x 2 in. BSPP	1
		• SCREW, 5/16-18 x 0.75 in.	4
	24T856	KIT, BSPP conversion, 2 in.	1
		SHORT, XD 70 models	
		PACKING, o-ring	1
		• SWIVEL, outlet, 2 in., BSPP	1
		• ADAPTER, 2 in. NPT x 2 in. BSPP	1
		• SCREW, 5/16-18 x 0.75 in.	4
	127224	CONTROL, hydraulic, 12V	1
		VALVE, poppet, 2 way	1
		VALVE, poppet, 2 way	1
		VALVE, spool, pressure reduc- ing	1
		VALVE, cartridge, flow regulator	1
		LATCH, mounting	1
		SWITCH, hydraulic selector	1
		BLOCK, contact	2
	127225	CONTROL, hydraulic, 24V	1
		VALVE, poppet, 2 way	1
		VALVE, poppet, 2 way	1
		VALVE, spool, pressure reducing	1
		VALVE, cartridge, flow regulator	1
		• LATCH, mounting	1
		SWITCH, hydraulic selector	1
		BLOCK, contact	
	2411110	· ·	2
	24U118	KIT, switch, hydraulic	1
	218341	KIT, ball stop, 3/4 in. OD	1

Ref	Part No.	Description	Qty
	222225	KIT, ball stop, 1/2 in. OD	1
	237872	KIT, ball stop, 1 in. OD	1
	24R060	KIT, ball stop, 1-3/4 in. OD	1
	24R061	KIT, ball stop, 2 in. OD	1
	127271	CONTROL, pneumatic	1
	24U902	KIT, swivel, 1.0 in., includes 4, 6, 7. Model 24U744 only	1
	24U901	KIT, repair, inlet side, includes 4, 5, 8, 13-16. Model 24U744 only.	1

Motor-less Reel Parts



Motor Module (26)



Technical Data

	US	Metric		
Maximum Service Fluid Working Pressure	See Models Table, page 2			
Operating Temperature				
Motor-less Reels	-40°F to 180°F	-40°C to 82°C		
Air / Water Applications	-40°F to 180°F	-40°C to 82°C		
Waste Oil Evacuation Applications	-40°F to 180°F	-40°C to 82°C		
Oil Applications	-40°F to 180°F	-40°C to 82°C		
Grease Applications	0°F to 180°F	-17.8°C to 82°C		
Diesel Fuel Applications	-40°F to 140°F	-40°C to 60°C		
Inlet/Outlet Sizes				
XD 6010 / 7010 / 8010	1 in. npt(f)			
XD 7015 / 8015	1-1/2 in. npt(f)			
XD 8020	2 in. npt(f)			
Materials of Construction				
Reel wetted materials	nickel plated cast iron, cast iron, Buna-N rubber, polyeth- ylene			
Weight: See Tables, page 59 and 61				
Noise (dBa)				
Electric and Hydraulic Motors Sound Pressure Level†	<80 dBa			
Pneumatic Motors Sound Pressure Level†	84.6 dBa			
Pneumatic Motors Sound Power Level‡	89.9 dBa			
Notes				
† Measured at a distance of 1 meter from meastion/extension rate of 20 spool revolutions pe		4-2 @ an assumed retrac-		
‡ Measured per ISO 9614-2 @ an assumed re	traction/extension rate of 20	spool revolutions per minute		

Electric Motors: 12 VDC, 1/2 hp				
	US	Metric		
Operating Voltage	12 VDC	•		
Rating Current	53 Amps			
Rated Speed	650 RPM			
Rated Power	0.5 hp	0.4 kw		

Electric Motors: 24 VDC, 1/2 hp				
	US	Metric		
Operating Voltage	24 VDC			
Rating Current	26 Amps			
Rated Speed	650 RPM			
Rated Power	0.5 hp	0.4 kw		

Electric Motors: 12 VDC, 2/3 hp				
	US	Metric		
Operating Voltage	12 VDC			
Rating Current	75 Amps			
Rated Speed	500 RPM			
Rated Power	0.67 hp	0.5 kw		

Electric Motors: 24 VDC, 2/3 hp				
	US	Metric		
Operating Voltage	24 VDC			
Rating Current	38 Amps			
Rated Speed	500 RPM			
Rated Power	0.67 hp	0.5 kw		

Electric Motors: 115 VAC, 2/5 hp				
	US	Metric		
Operating Voltage	115 VAC			
Frequency	50/60 Hz			
Rating Current	6.5 Amps			
Rated Speed	500 RPM			
Rated Power	0.4 hp	0.3 kw		

Electric Motors: 230 VAC, 1/2 hp				
	US	Metric		
Operating Voltage	230 VAC			
Frequency	50/60 Hz			
Rating Current	3.7 Amps			
Rated Speed	650 RPM			
Rated Power	0.5 hp	0.4 kw		

Pneumatic Motors				
	US	Metric		
Maximum Working Pressure	100 psi	6.7 bar, 0.7 MPa		
Inlet/Outlet	1/2 in. npt			
Wetted Materials	steel, cast iron, Kevlar [®] , Buna-N rubber			

Pneumatic Control (PN 127271)				
	US	Metric		
Maximum Working Pressure	200 psi	13.8 bar, 1.3 MPa		
Temperature	0°F to 120°F	-17°C to 49°C		
Port Size	3/8 in. npt	3/8 in. npt		
Wetted Materials	designed for compress	designed for compressed air applications		

Hydraulic Motors				
	US	Metric		
Maximum working pressure	2000 psi	137.9 bar, 13.8 MPa		
Inlet/Outlet	7/8-14 UNF (o-ring boss	7/8-14 UNF (o-ring boss port)		
Wetted materials	steel, cast iron, Buna-N	steel, cast iron, Buna-N rubber		

Hydraulic Control (PN 24T875, 24T876)			
	US	Metric	
Maximum Working Pressure	3000 psi	206.8 bar, 20.6 MPa	
Regulated Pressure Range	0 to 2000 psi	0 to 137.9 bar, 13.79 MPa	
Regulated Flow Rate	0 to 3.5 gpm	0 to 13.25 lpm	
Temperature	-40°F to 180°F	-40°C to 82°C	
Port Size	SAE-8		
Solenoid Power Consumption	15-20W		
Wetted Materials	anodized aluminum, steel, zinc plated steel, Buna-N rubber, tetrafluoro ethylene, polyester elastomer		

Weights

Motor-less Reels

Model	Description	US (lbs)	Metric (kg)	
24T104 24T105 24T106	24T105 XD 6010, LP		39	
24T107 24T108 24T109	XD 6010, MP	88	39	
24T110 24T111 24T112	XD 7010, LP	86	39	
24T113 24T114 24T115	XD 7010, MP	87	39	
24T116 24T117 24T118	XD 7015, LP	_P 87 39		
24T119 24T120 24T121	XD 7020, LP	91	41	
24T122 24T123 24T124	XD 8010, LP	127	57	
24T125 24T126 24T127	XD 8010, MP	129	58	
24T128 24T129 24T130	XD 8015, LP	015, LP 129 58		
24T131 24T132 24T133	XD 8020, LP	20, LP 133 60		

Pneumatic Reels

Model	Description	US (lbs)	Metric (kg)
24R419 24R420 24R421	XD 6010, LP	123	55
24R434 24R435 24R436	XD 6010, MP	125	56
24R449 24R450 24R451	XD 7010, LP	122	55

Model	Description	US (lbs)	Metric (kg)
24R464 24R465 24R466	4R465 XD 7010, MP 124		56
24R516 24R517 24R518	24R517 XD 7015, LP		56
24T023 24T024 24T025	XD 7020, LP	P 128 5	
24R531 24R532 24R533	XD 8010, LP	164 74	
24R546 24R547 24R548	4R547 XD 8010, MP 165		74
24R561 24R562 24R563	3562 XD 8015, LP 165		74
24R576 24R577 24R578	XD 8020, LP	169	76

Hydraulic Reels

Model	Description	US (lbs)	Metric (kg)
24R414			
24R415	XD 6010, LP	101	45
24R416			
24R431			
24R432	XD 6010, MP	103	46
24R433			
24R446			
24R447	XD 7010, LP	100	45
24R448			
24R461			
24R462	XD 7010, MP	102	46
24R463			
24R512			
24R513	XD 7015, LP	102	46
24R514			
24T020			
24T021	XD 7020, LP	106	48
24T022			
24R528			
24R529	XD 8010, LP	142	64
24R530			

Model	Description	US (lbs)	Metric (kg)	
24R543 24R544 24R545	XD 8010, MP	143	64	
24R558 24R559 24R560	XD 8015, LP	143	64	
24R573 24R574 24R575	XD 8020, LP	147	66	

12V Reels

Model	Description	US (lbs)	Metric (kg)
24R404 24R405 24R406	05 XD 6010, LP 133		60
24R422 24R423 24R424	XD 6010, MP	134	60
24R437 24R538 24R539	XD 7010, LP	132	59
24R452 24R453 24R454	24R453 XD 7010, MP		60
24R503 24R504 24R505	XD 7015, LP	133 60	
24T011 24T012 24T013	XD 7020, LP	137 6	
24R519 24R520 24R521	R520 XD 8010, LP 173		78
24R534 24R535 24R536	XD 8010, MP	175	79
24R549 24R550 24R551	R550 XD 8015, LP 175		79
24R564 24R565 24R566	XD 8020, LP	179	81

24V Reels

Model	Description	US (lbs)	Metric (kg)	
24R407				
24R408	XD 6010, LP	133	60.3	
24R409				
24R425				
24R426	XD 6010, MP	134	60	
24R427				
24R440				
24R441	XD 7010, LP	132	59	
24R442				
24R455				
24R456	XD 7010, MP	133	60	
24R457				
24R506				
24R507	XD 7015, LP	133	60	
24R508				
24T014				
24T015	XD 7020, LP	137	62	
24T016				
24R522				
24R523	XD 8010, LP	173	78	
24R524				
24R537				
24R538	XD 8010, MP	175	79	
24R539				
24R552				
24R553	XD 8015, LP	175	79	
24R554				
24R567				
24R568	XD 8020, LP	179	81	
24R569				

115AC Reels

Model	Description	US (lbs)	Metric (kg)	
24R410 24R411 24R412	XD 6010, LP	133	60	
24R428 24R429 24R430	XD 6010, MP	134	60	
24R443 24R444 24R445	XD 7010, LP	132	59	
24R458 24R459 24R460	XD 7010, MP	133	60	

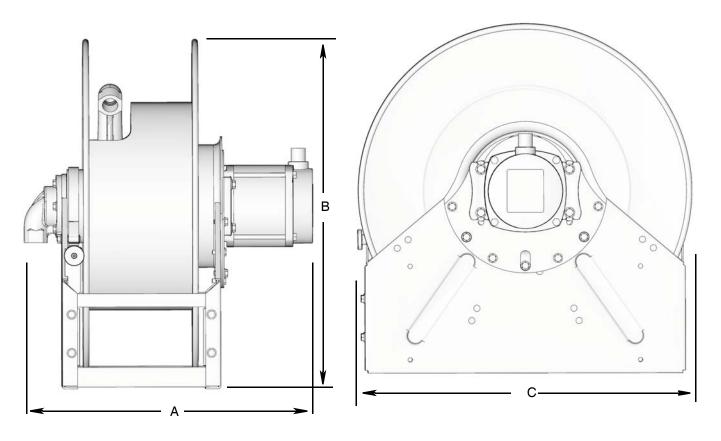
Model	Description	US (lbs)	Metric (kg)	
24R509				
24R510	XD 7015, LP	133	60	
24R511				
24T017				
24T018	XD 7020, LP	137	62	
24T019				
24R525				
24R526	XD 8010, LP	173	78	
24R527				
24R540				
24R541	XD 8010, MP	175	79	
24R542				
24R555				
24R556	XD 8015, LP	175	79	
24R557				
24R570				
24R571	XD 8020, LP	179	81	
24R572				

Model	Description	US (lbs)	Metric (kg)
24T233 24T234 24T235	XD 8015, LP	175	79
24T236 24T237 24T238	XD 8020, LP	179	81

230AC Reels

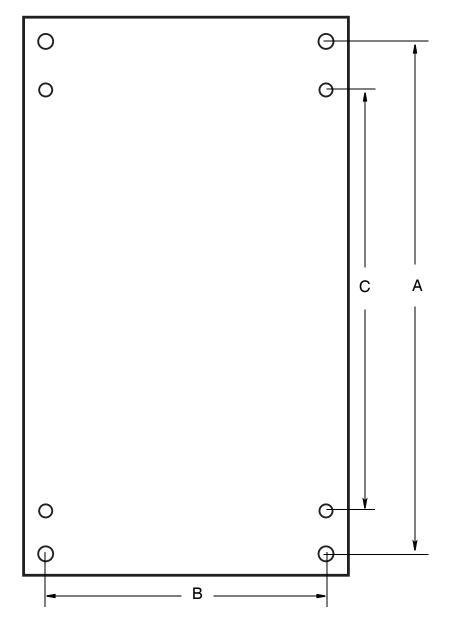
Model	Description	US (lbs)	Metric (kg)
24T207 24T208 24T209	8 XD 6010, LP 13		60
24T210 24T211 24T212	24T211 XD 6010, MP 13		60
24T213 24T214 24T215	XD 7010, LP	132	59
24T218 24T219 24T220	XD 7010, MP	133	60
24T221 24T222 24T223	XD 7015, LP	133	60
24T224 24T225 24T226	24T225 XD 7020, LP 137		62
24T227 24T228 24T229	XD 8010, LP	010, LP 173	
24T230 24T231 24T232	XD 8010, MP	175	79

Dimensions:



		A: Overa	all Width	B: He	eight	C: D	epth
Model	Power Source	inches	cm	inches	cm	inches	cm
XD 6010	Pneumatic	20.4	51.82	26.1	66.29	26	66.04
XD 6010	Hydraulic	15.6	39.62	26.1	66.29	26	66.04
XD 6010	Electric	21.6	54.86	26.1	66.29	26	66.04
XD 7010	Pneumatic	22.9	58.17	26.1	66.29	26	66.04
XD 7010	Hydraulic	18.1	45.97	26.1	66.29	26	66.04
XD 7010	Electric	24.1	61.21	26.1	66.29	26	66.04
XD 7015	Pneumatic	23.7	60.20	26.1	66.29	26	66.04
XD 7015	Hydraulic	18.9	48.01	26.1	66.29	26	66.04
XD 7015	Electric	24.8	62.99	26.1	66.29	26	66.04
XD 8010	Pneumatic	30.6	77.72	30.1	76.45	30.4	77.22
XD 8010	Hydraulic	25.9	65.79	30.1	76.45	30.4	77.22
XD 8010	Electric	31.8	80.77	30.1	76.45	30.4	77.22
XD 8015	Pneumatic	31.4	79.76	30.1	76.45	30.4	77.22
XD 8015	Hydraulic	26.6	67.56	30.1	76.45	30.4	77.22
XD 8015	Electric	32.6	82.80	30.1	76.45	30.4	77.22
XD 8020	Pneumatic	31.8	80.77	30.1	76.45	30.4	77.22
XD 8020	Hydraulic	27.0	68.58	30.1	76.45	30.4	77.22
XD 8020	Electric	33.0	83.82	30.1	76.45	30.4	77.22

Mounting Hole Pattern



Model	Dimension A		Dimension B		Dimension C	
	inches	cm	inches	cm	inches	cm
XD 60	22.25	56.51	10.45	26.54		
XD 70	22.25	56.51	12.95	32.89		
XD 80	26.73	67.89	20.68	52.53	22.25	56.51

Frames have 7/16 in. holes designed for 3/8 in. bolts.

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Original instructions. This manual contains English. MM 332631

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