



Model: See Affected Systems

Serial #: N/A

Jun. 8, 2020

Product Bulletin # CDS-001 v 2.0

CDS Integration Pressure Reducing Manifold

Background

Per Product Alert TDS-218 the pressure reducing valve (P/N: H14879-750) has been replaced with a check valve (P/N: H07-1010-030). To continue using the Integrated CDS on Canrig top drives a pressure reducing manifold must be added to the CDS.

Affected Systems

Casing Drive Systems with the CDS Integration for Canrig top drives.

Recommendation



Note: If you have not replaced the pressure reducing valve with the check valve please see Product Alert TDS-218.

Contact RIGLINE 24/7™ to order the CDS pressure reducing kit, Canrig P/N: 5100974.

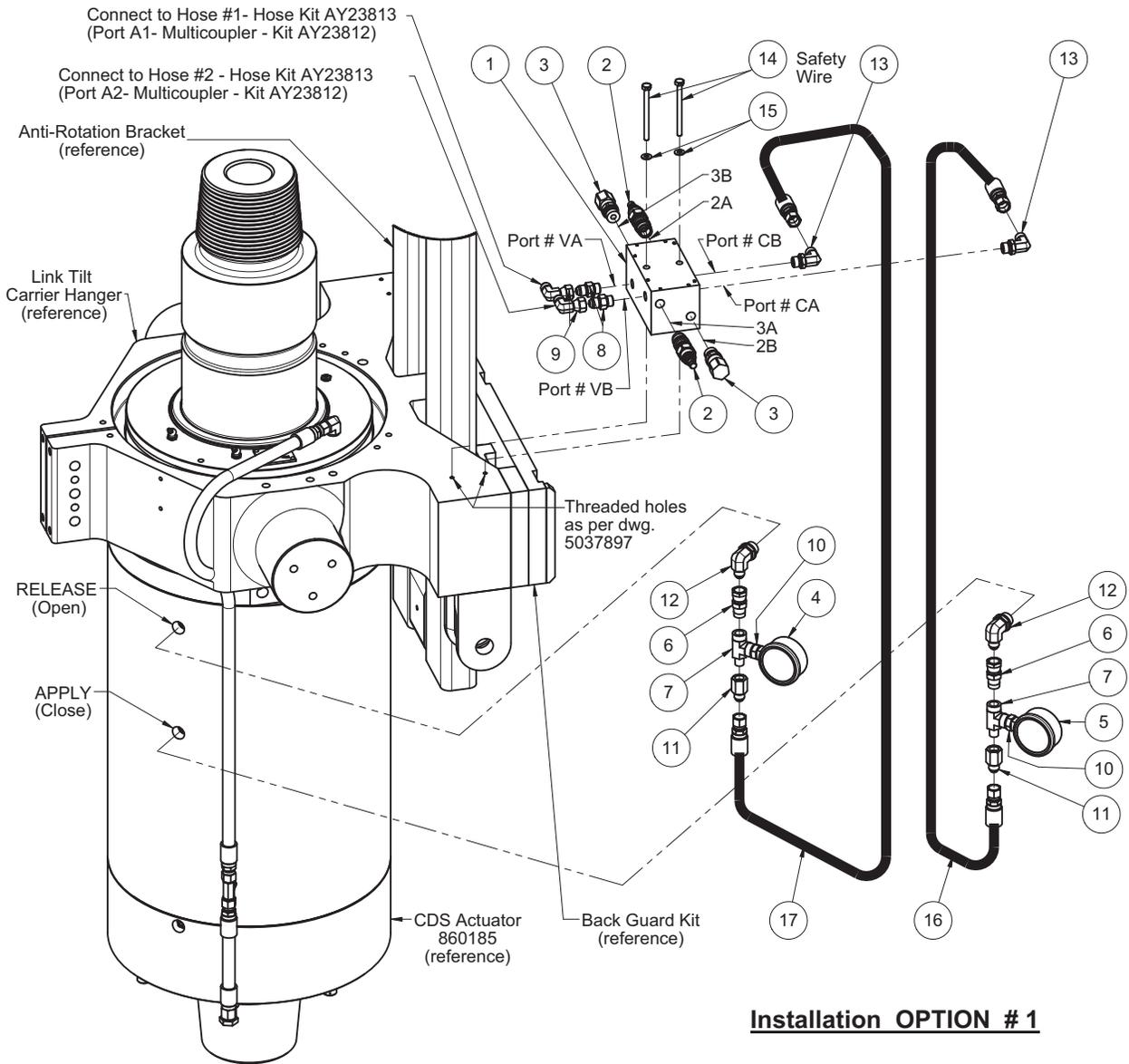


Warning! There is an interlock within the code that will prevent the CDS tool from releasing the casing if the hook load is above 55 kips + tool weight + 5 kip. However, by not installing this hydraulic pressure reducing kit there is no longer a redundant safety system. Please use caution when releasing the load from the CDS tool until the hydraulic pressure reducing kit is installed.

Procedure

1. Mount pressure reducing manifold in bolt holes with hardware provided (items 14, 15 and Safety Wire) on the CDS hanger plate as shown in Figure 1 on page 2 and Figure 2 on page 3.
2. To install the pressure reducing hardware, fittings and hoses, follow the installation from Figure 1 on page 2 or Figure 2 on page 3. Part numbers are listed in Table 1 on page 4.

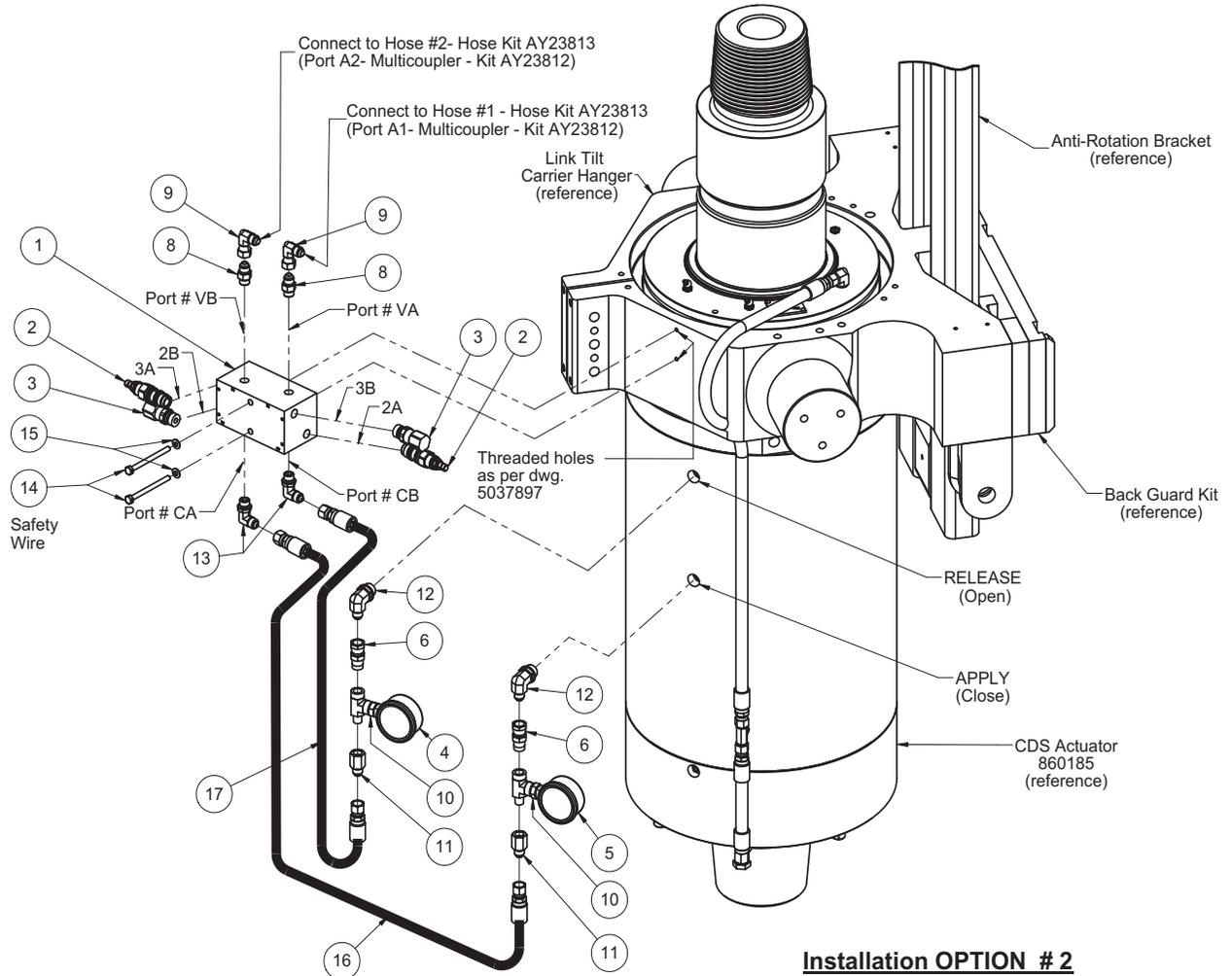
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Notes:

1. APPLY (Close) - Set Pressure to minimum 2000 psi for Casing Running. (For Casing Drilling, the Pressure should be set to 1400 psi)
2. RELEASE (Open) - Set Pressure to 700-800 psi
3. Hydraulic hoses lengths may need to be adjusted.

Figure 1: Hydraulic Actuator Kit Installation - Option #1



Installation OPTION # 2

Notes:

1. APPLY (Close) - Set Pressure to minimum 2000 psi for Casing (For Casing Drilling, the Pressure should be set to 1400 psi)
2. RELEASE (Open) - Set Pressure to 700-800 psi
3. Hydraulic hoses lengths may need to be adjusted.

Figure 2: Hydraulic Actuator Kit Installation - Option #2



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Note: The hoses will be connected to the multi-coupler per the schematic.

Table 1: Hydraulic Actuator Kit BOM (5100974)

Item No.	Part Number	Qty.	Description
1	720821	1	Body, Valve, Cartridge, Dual Pressure Reducing
2	9139	2	Valve, Reducing, Cartridge, PO, T-11A, 100–3000 psi
3	720822	2	Valve, Check, T13-A, Cartridge, 4-psi Cracking
4	0049	1	Gauge, Liq Fill, 0–1000 psi/kPa, 2.5" OD x 1/4" MNPT, LM, C/W Restrict
5	0061	1	Gauge, Liq Filled, 0–3000 psi, 2.5" OD x 1/4" MNPT, LM
6	0211	2	Fitting, Hyd, Str, #6 MNPT x #6 FJIC-Swvl
7	12122	2	Fitting, Hyd, Tee, #6 MNPT-Run x #6 FNPT x #6 FNPT
8	1497	2	Fitting, Hyd, Str, #6 MJIC x #6 MORB
9	0352	2	Fitting, Hyd, 90° Elb, #6 MJIC x #6 FJIC-Swvl
10	0251	2	Fitting, Hyd, Str, #6 MNPT x #4 FNPT
11	10512	2	Fitting, Hyd, Str, #6 MJIC x #6 FNPT
12	2788	2	Fitting, Hyd, 90° Elb, #6 MJIC x #8 MORB
13	0199	2	Fitting, Hyd, 90° Elb, #6 MJIC x #6 MORB
14	720884	2	Screw, Cap, Hex Hd, 1/4" - 20UNC x 3-1/4", Gr8, Pld, Dr Hd
15	10370	2	Washer, Belleville, 1390-lbs, 1/4" ID x 0.551" OD, Stl
16	3411	1	Hose, Hyd, 100R2-AT, #6 x 48", FJIC x FJIC
17	5010770	1	Hose, Hyd, 100R2-AT, #6 x 44", FJIC x FJIC

3. Install hoses from the pressure reducing manifold to the multi-coupler on the CDS as shown in Figure 3.

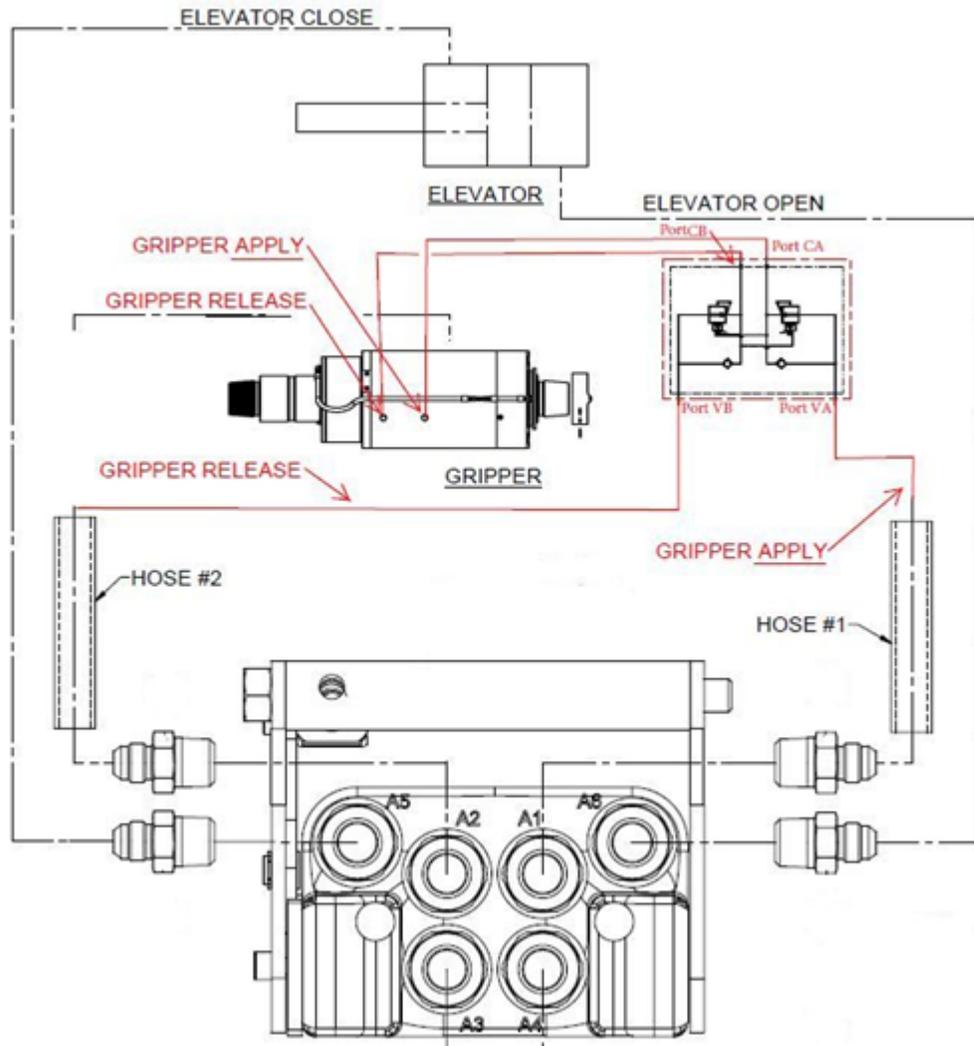


Figure 3: Hydraulic Hose Routing

4. Set APPLY (Close) pressure to minimum 2,000 psi for casing running. For casing drilling, the pressure should be set to 1,400 psi.
5. Set RELEASE (Open) pressure to 700–800 psi.