Axial Flow 7010
Axial Flow 8010
Combines

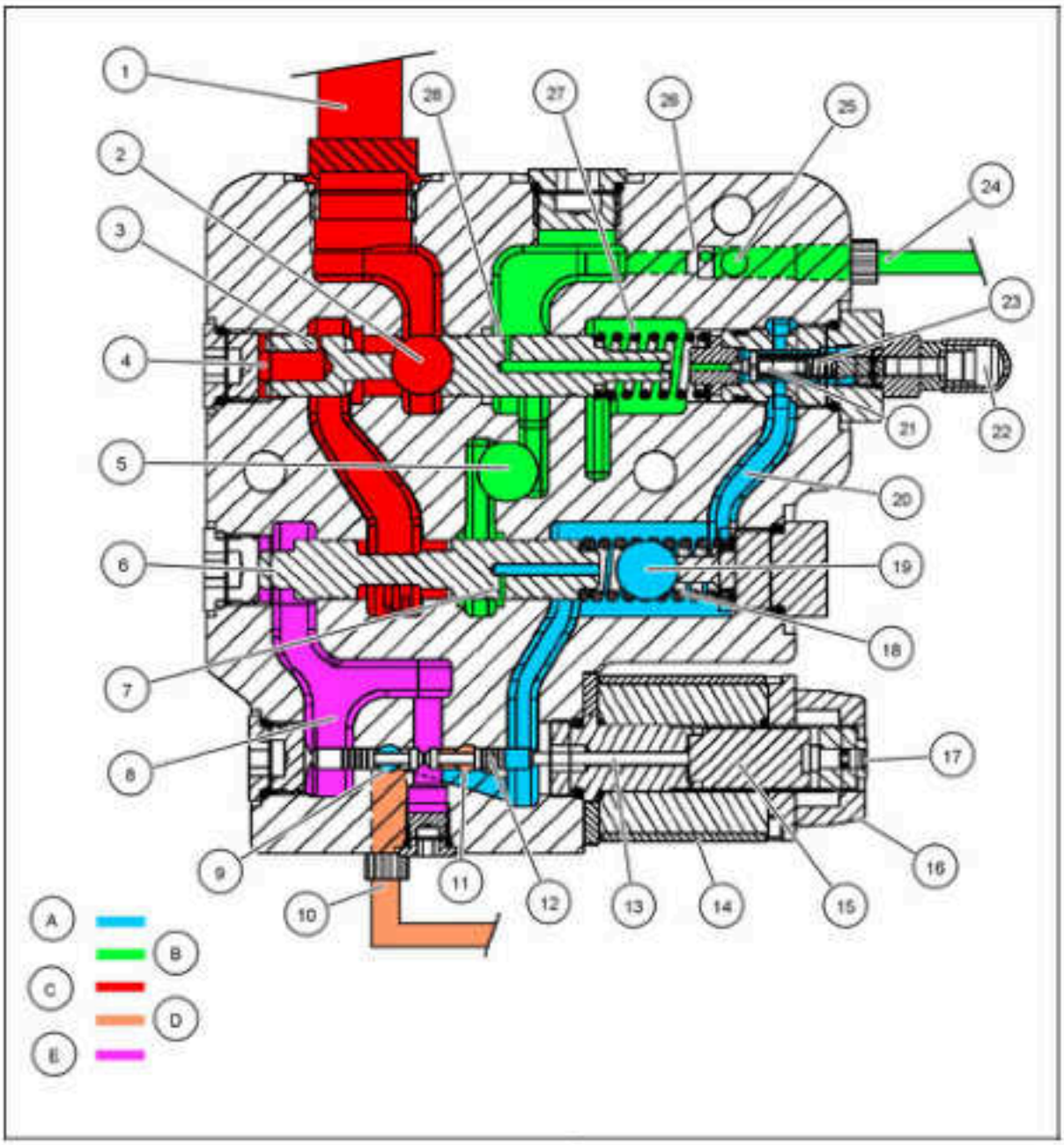
SERVICE MANUAL

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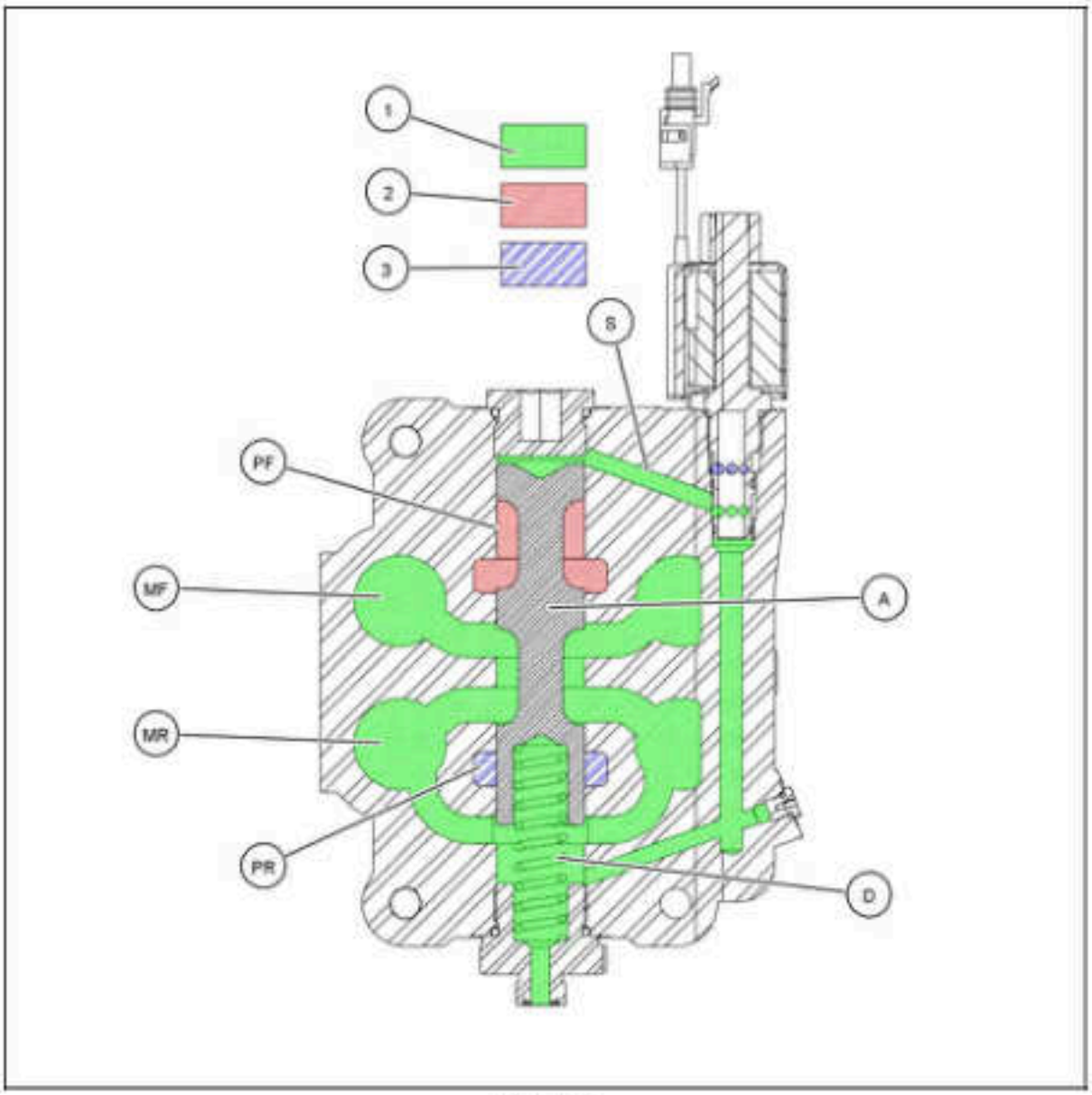
Reel Drive Valve - Sectional View

Color Key: (A) = Return, (B) = Working Pressure, (C) = PFC Supply, (D) = Pilot Supply, (E) = Regulated Supply

1. PFC Supply Port	15. Armature
2. Auxiliary Function Port (Header Functions)	16. Cap
3. Orifice	17. Manual Override Button
4. Pressure-Compensation Spool [shifts at **20.7 bar (300 psi)**]	18. Main Spring
5. Reel Drive Work Port (to Reel Drive Motor)	19. Return Port (through valve stack to reservoir)
6. Main Spool	20. Return Passage
7. Orifice	21. Pilot Poppet
8. Regulated Oil Pressure	22. Relief Valve [factory set to **145 bar (2100 psi)**]
9. Return Passage	23. Pilot Spring
10. Pilot Supply Port	24. Load Sense Port (to PFC pump flow compensator)

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Selector Spool (OFF Position)



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Selector Spool - OFF Position

Legend

1. Drain
2. System Pressure
3. Charge Pressure

With the powered rear axle system OFF, charge pressure oil in the control valve is blocked at the solenoid valve. Cavity **(S)** is exposed to tank through the solenoid cartridge. The spring pressure in cavity **(D)** holds the spool **(A)** in the OFF position. The spool prevents system pressure oil from entering both the forward or reverse inlet port and the rest of the valve; therefore no high pressure oil is delivered to the wheel motors.

In the off position the spool cavities **(PF)** and **(PR)** are closed off from motor cavities **(MF)** and **(MR)**. Cavities **(PF)** and **(PR)** are the forward and reverse pressure inlet cavities; they will always be exposed to either system pressure or return (charge) pressure oil depending on direction of the machine. Cavity **(MF)** opens an oil flow path to the forward

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