



# Truck Mount Central Hydraulic Systems

Medium to Heavy Duty Applications

## Valve Configurations



### Add-A-Stack® 4020 Manual, Pneumatic, or Hydraulic Actuated Valve

- **Stackable high and low flow sections**  
*Up to 13 sections accommodating 40 gpm telescopic hoists to 3 gpm spreader functions.*
- **Five different valve operators available**  
*Valve can be controlled by cable, electric on/off, electro-proportional, and pneumatic or hydraulic pilot operated remote.*
- **Stackable Spin-A-Veyer® Valve section**  
*Provides unequalled meterability for spreader functions.*
- **Gear pump or load sensing versions available**  
*Adaptable to open center or closed center systems.*



### Add-A-Fold® Electric Actuated Valve

- **Manifold mounted valve sections**  
*Unsurpassed serviceability with bolt-on style valve sections.*
- **Modular sub-base design**  
*Provides unlimited configurations of valve sizes, including optional pressure compensation and work port reliefs.*
- **Optional ancillary manifolds**  
*Spin-A-Veyer® valve, cylinder port reliefs, and zero leak 3 and 4 way elements provide enhanced performance.*
- **Gear pump or load sensing versions available**  
*Adaptable to open center or closed center systems.*



**CORPORATE OFFICE**  
501 East Cliff Road  
Burnsville, Minnesota 55337

Toll Free: 1-888-99FORCE  
Phone: (952) 707-1300  
Fax: (952) 707-1330  
Internet: [www.forceamerica.com](http://www.forceamerica.com)

Employee Owned



# Setting the New Standard for Medium to Heavy Duty Trucks.

As the leader in truck mount central hydraulic systems, FORCE America is again Setting the New Standard. Medium to heavy duty systems begin with a highly efficient load sense piston

pump. The flow-on-demand system eliminates excess horsepower draw. The VT35 valve/tank assembly has no equal for ease of installation and maintenance, with superior protection of all

valve and tank components. CommandAll® Controllers with microprocessor based spreader control technology record and retrieve data with real-time or passive data transfer systems.

Wrapping up the complete solution, FORCE America offers a complete line of anti-icing systems. Look to the leader, FORCE America for your next medium to heavy duty central hydraulic system requirement.



## Pre-Wet Systems

- **Tailgate units up to 150 gallons**  
*Higher capacity means more time on the road.*
- **High density polyethylene with UV protection**  
*Strength and durability needed for long life against harsh salt exposure.*
- **System flexibility**  
*Electric manual, electric closed loop, hydraulic closed loop and hydraulic series loop options.*



## CommandAll® Controllers

- **Five spreader control modules available**  
*Spread granular and liquid material, manually or ground speed based with both open and closed loop controllers.*
- **Proportional hoist with center interlock**  
*Feather the hoist to desired speed while avoiding accidental activation.*
- **Up to four dual axis valve controls**  
*Putting the operator in control of all snow and ice control functions.*
- **Remote mount displays**  
*Heads-up display for safe visual indication with optional audible alarms.*



## High-Pressure Filters

- **Multi-layered microglass media**  
*Exceptional filtration performance  $\beta_{25} \geq 300$ .*
- **Severe duty applications**  
*High dirt holding capacity with high intrinsic stability for cyclical loads.*
- **Pressures to 6000 PSI**  
*Handles high pressure and pressure spikes with an unmatched safety factor.*



## Auger/Spinner Motors

- **Industry proven spool valve design**  
*Smooth and efficient performance over the complete speed range of the motor.*
- **Hydrodynamic bearing**  
*High overhung load capacity with infinite bearing life when ratings are not exceeded.*
- **Optional electronic sensors**  
*Reliable feedback for closed loop spreader applications.*



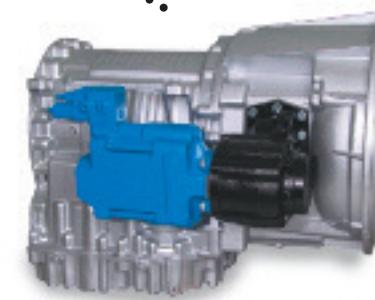
## VT35 Valve/Tank Assembly

- **Total component protection**  
*Valve, filter, filler/breather, sensors, cables and fittings all under one easy to remove cover.*
- **Tri-point tank mounting**  
*Prevents tank cracks and weld failures caused by truck frame chassis flex.*
- **Gasketless passive seal technology**  
*Prevents harmful salt spray while venting damaging moisture.*



## Return Filters

- **Multi-layered microglass media**  
*Exceptional filtration performance  $\beta_{16} \geq 300$ .*
- **5-micron microglass filtration**  
*Exceeds manufacturers recommended filtration requirements for extended fluid service intervals.*
- **Element pressure rating to 232 PSI**  
*Handle high peak flows, like telescopic hoist without media failure.*



## Variable Piston Pumps

- **Direct mount capable**  
*Mounts directly to most auxiliary transmissions including Allison MD3060.*
- **Flows to 55 GPM**  
*Simultaneous function operation achieved with properly sized pump.*
- **High response compensator**  
*Immediate pump response with input signal for precise movement and control.*

