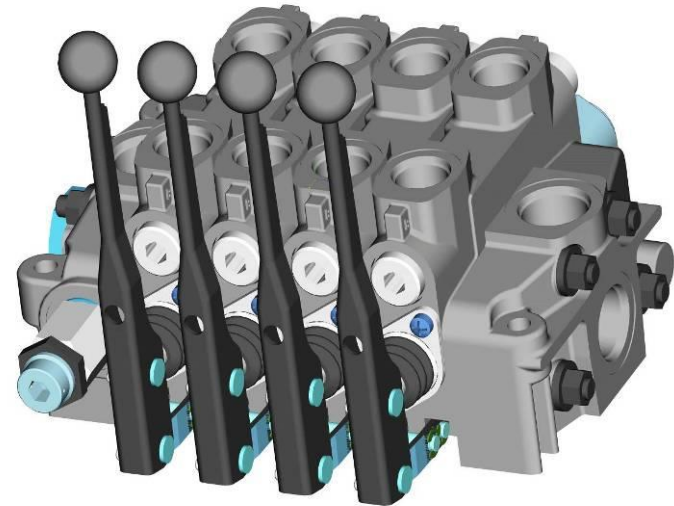


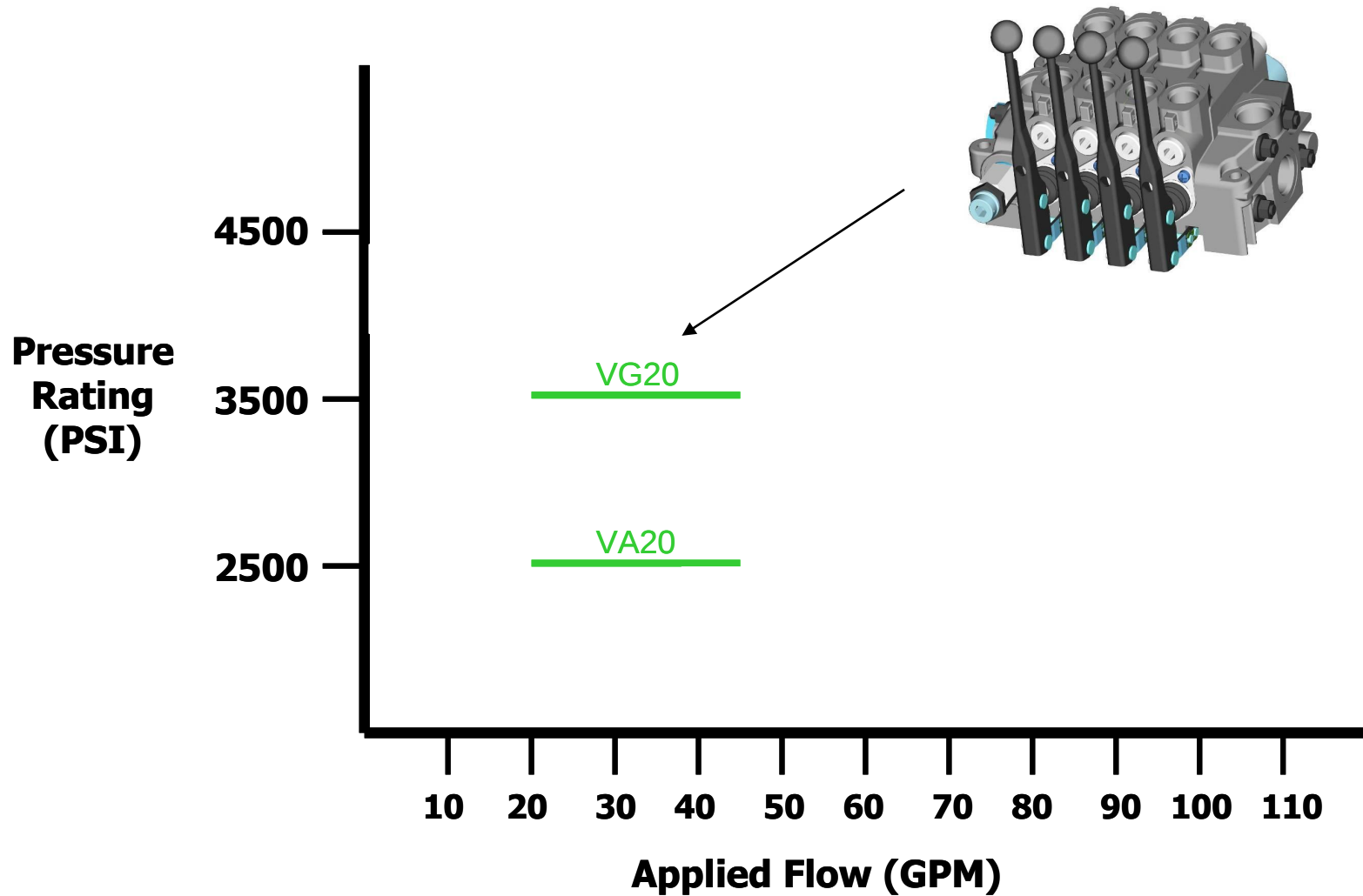
Mobile Valve Training

VA/VG20 Valve Review

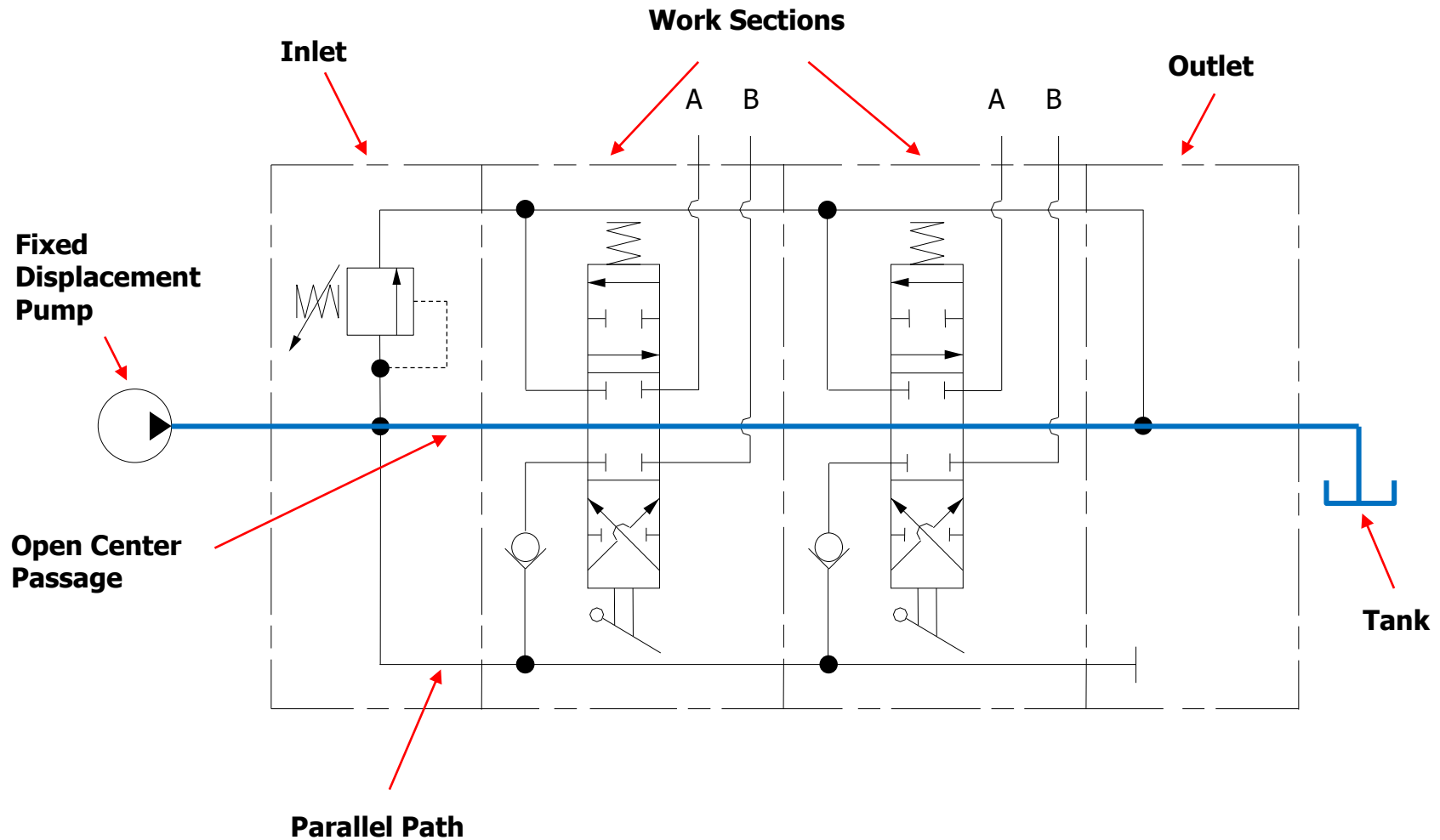


ENGINEERING YOUR SUCCESS.

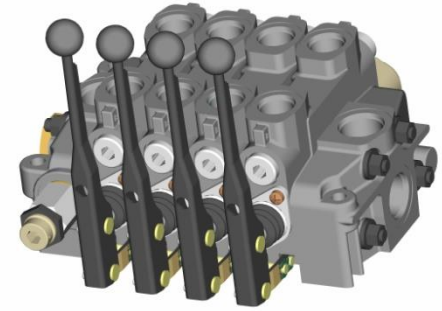
Model VA/VG 20



Open Center Technology Example



VA/VG20 Specifications



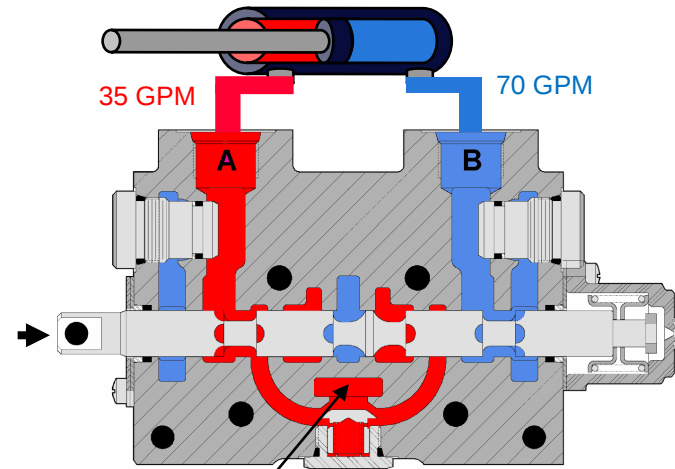
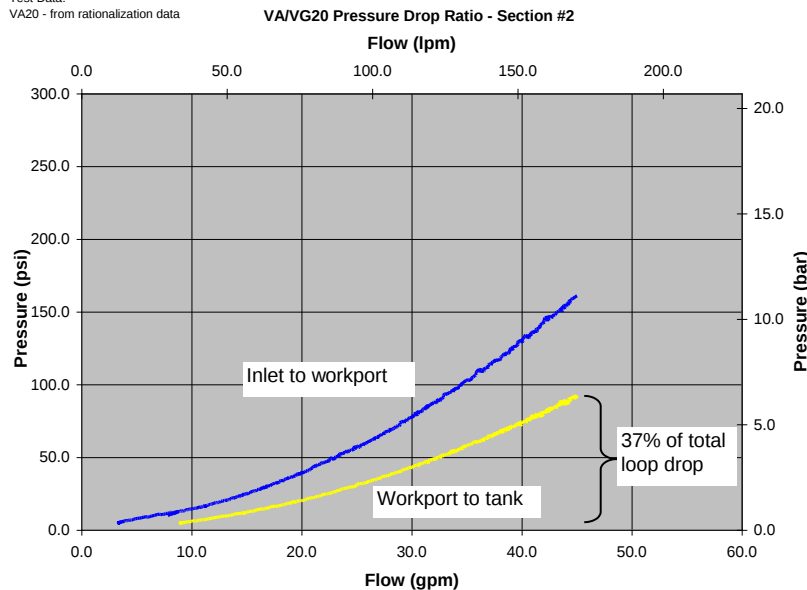
- Nominal flow: 150 LPM (40 GPM)
- Typically applied between 20 and 45 GPM
- Inlet pressure: 172 Bar (2500 PSI) – VA Grey Iron
- Inlet pressure: 240 Bar (3500 PSI) – VG Ductile Iron
- Tank pressure: 21 Bar (300 PSI)
- Maximum port leakage: 20 ml/min @ 76 bar (1100 PSI)
- Porting – available in SAE, & NPT (no NPT port for VG)
 - Work Port Size: SAE-12
 - Inlet Port Size: Top and End SAE-16
 - Outlet Port Size: Top and End SAE-16, SAE-20 End
- Filtration: 20/18/14 (ISO4406)
- Footprint: Worksection width 1.75"

VA/VG20

Market leading low pressure drop allows us to retract cylinders at 30% less pressure than competitors. This reduces fuel consumption, lowers heat generation, and maximizes system pressure available to do work.

- Sets the standard for footprint vs. pressure drop
- Excellent pressure drop balance

Test Data:
VA20 - from rationalization data



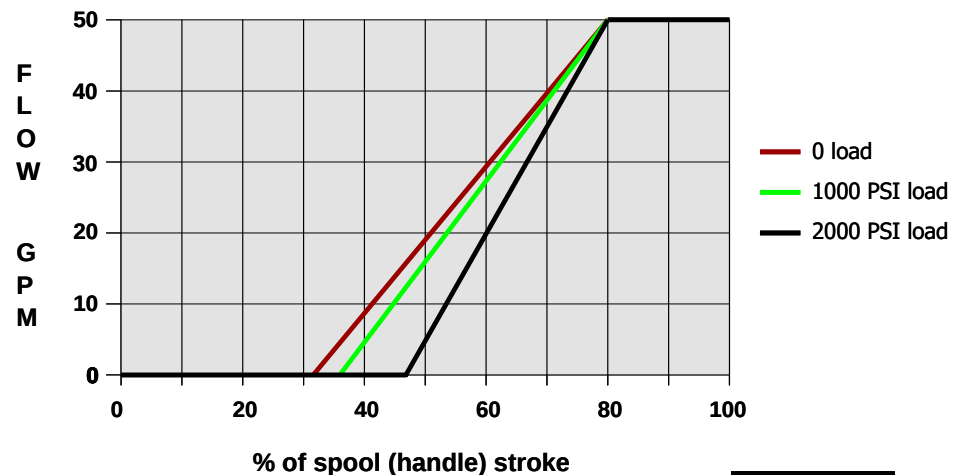
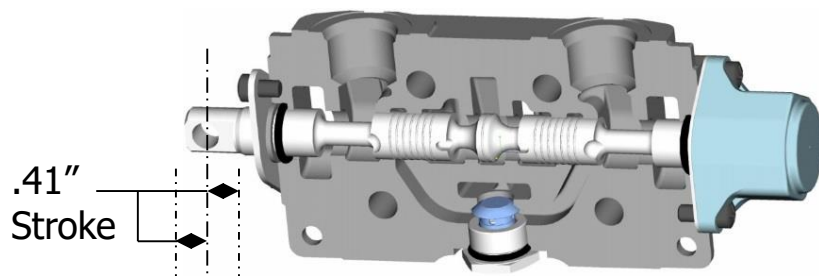
P in = 750 PSI



VA/VG20

Market leader in spool stroke provides outstanding metering control. This increases machine productivity and improves operator comfort.

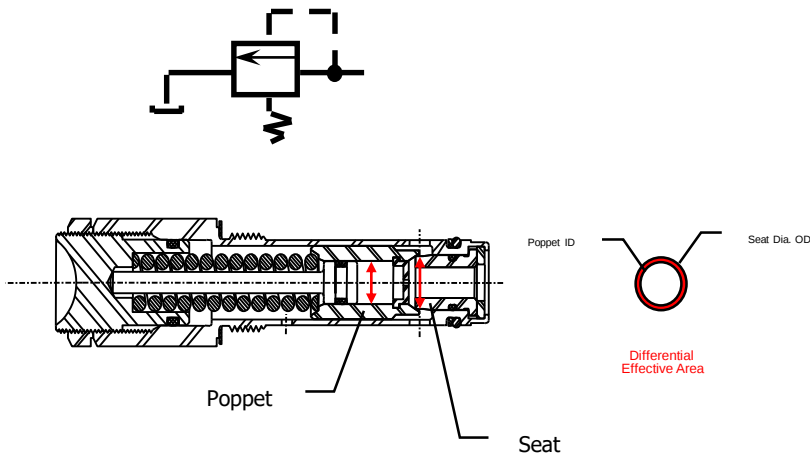
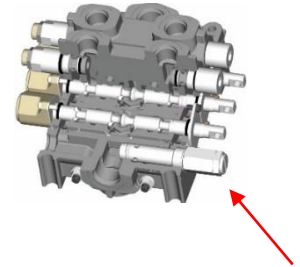
- Long spool stroke sets the standard for metering control
- .41" neutral to work spool stroke = 67% more stroke than competitor product



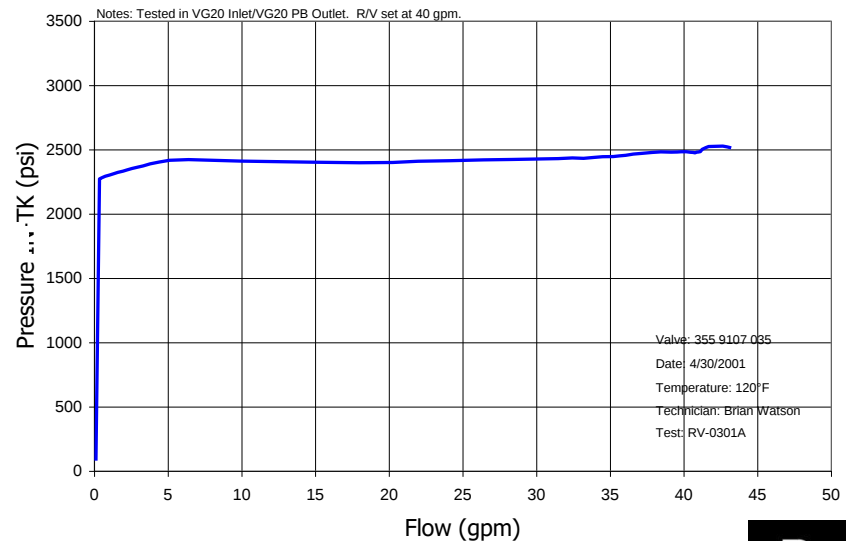
VA/VG20

Fast response, dirt tolerant, main reliefs protect your system and provide consistent work/lift capacity over the entire engine RPM range.

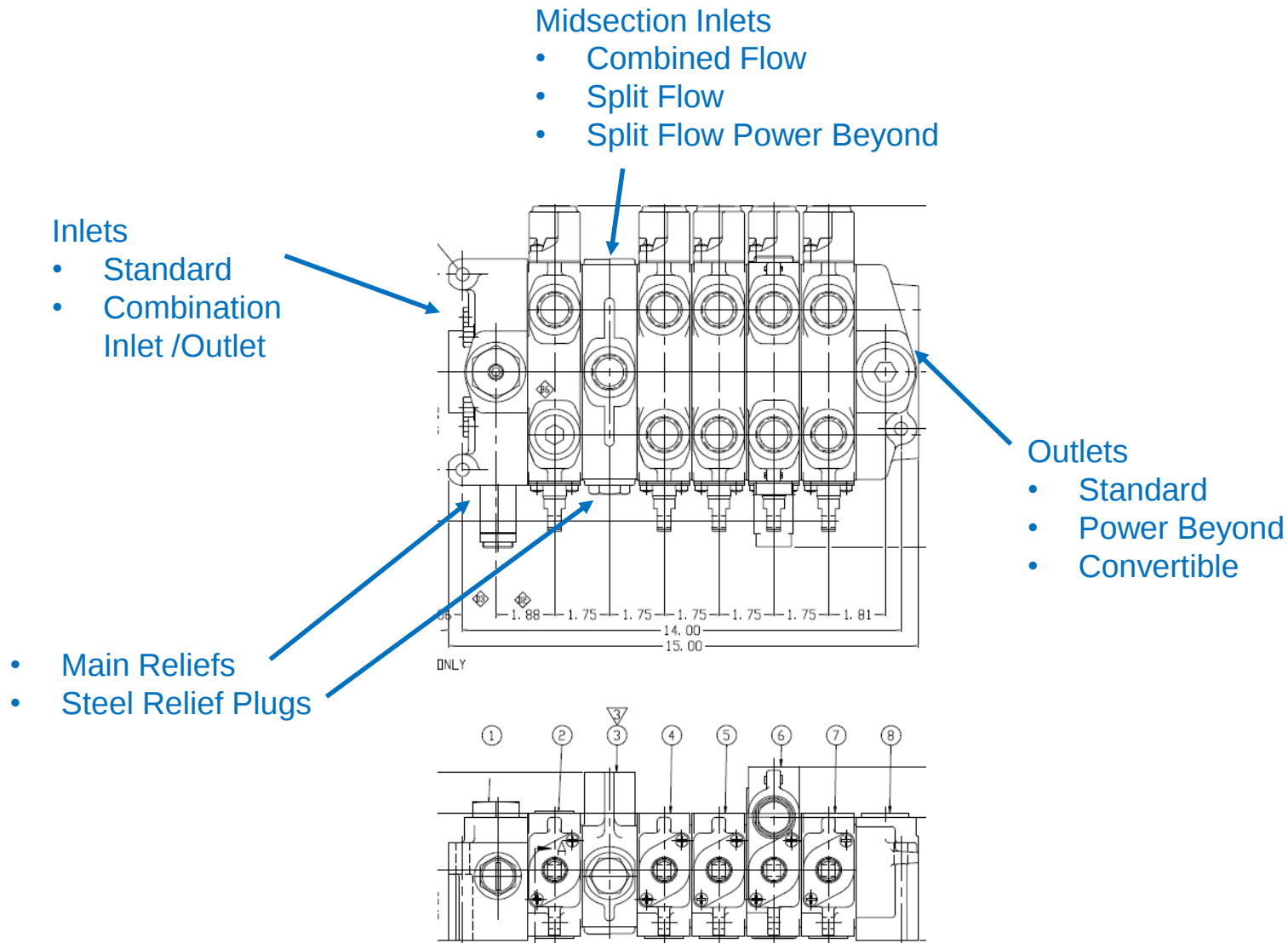
- Bulletproof differential area design main reliefs
- Low pressure rise over flow/RPM range



R/V Curve - 355 9107 035 (range: 800 psi to 2500 psi)



VA/VG20 Configuration Options



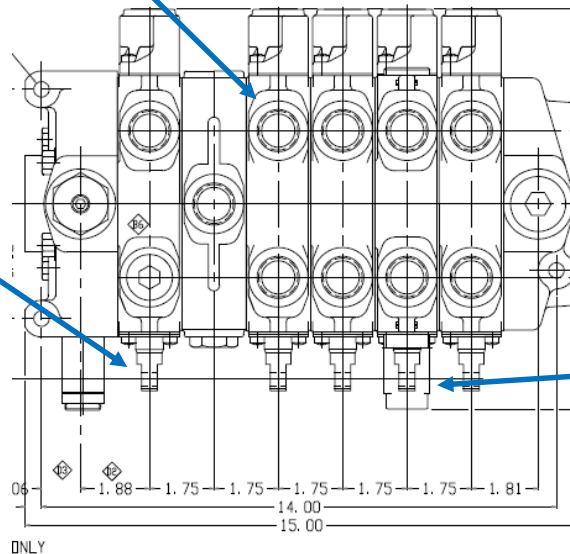
VA/VG20 Configuration Options

Flexible Circuitry

- Parallel
- Tandem
- Series

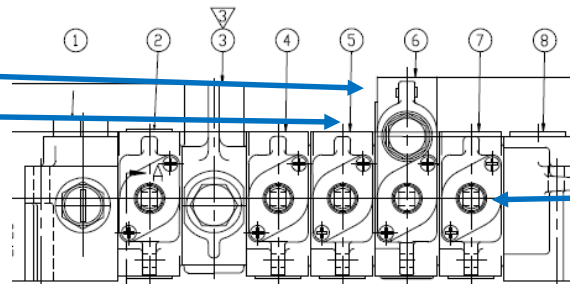
Spools

- Cylinder
- Motor
- Single Acting
- Double Acting
- 4 Position Float
- Standard 3 position symmetrical & reversible



Section Height

- Highboy
- Lowboy



Operators

- Spring return
- 3 position detent
- Spring return out-detent in
- Detent out-spring return in
- 4 position float detent
- Pneumatic
- Hydraulic remote
- Hydraulic pilot
- Hydraulic Kickout
- Rotary

Port Accessories

- Differential Area Port Reliefs
Screw and Shim Adjusted
- Pilot Operated Port Reliefs
- Anti-cavitation Checks
- Resistance Cartridges
- Workport Unloading Cartridges
- Workport Flow Restrictors

- Vertical Handles
- Horizontal Handles



VA/VG20 Market & Application Expertise

- Construction
- Refuse
- Material Handling
- Ag
- Snow & Ice
- Truck

