

Setting Targets – Particle Counts

PUMPS			
Pressure	< 2000 PSI < 140 Bar	< 3000 PSI 210 Bar	< 3000 PSI > 210 Bar
Fixed Gear	20/18/15	19/17/15	18/16/13
Fixed Vane	20/18/15	19/17/14	18/16/13
Fixed Piston	19/17/15	18/16/14	17/15/13
Variable Vane	19/17/15	18/16/14	17/15/13
Variable Piston	18/16/14	17/15/13	16/14/12
VALVES			
Pressure		3000 PSI 210 Bar	> 3000 PSI > 210 Bar
Directional (solenoid)		20/18/15	19/17/14
Pressure (modulating)		19/17/14	19/17/14
Flow Controls (standard)		19/17/14	19/17/14
Check Valves		20/18/15	20/18/15
Cartridge Valves		20/18/15	19/17/14
Screw-in Valves		18/16/13	17/15/12
Prefill Valves		20/18/15	19/17/14
Load-sensing Directional Valves		18/16/14	17/15/13
Hydraulic Remote Controls		18/16/13	17/15/12
Proportional Directional (throttle) Valves		18/16/13	17/15/12*
Servo Valves		16/14/11*	15/13/10*
ACTUATORS			
Pressure	< 2000 PSI < 140 Bar	3000 PSI 210 Bar	> 3000 PSI > 210 Bar
Cylinders	20/18/15	20/18/15	20/18/15
Vane Motors	20/18/15	19/17/14	18/16/13
Axial Piston Motors	19/17/14	18/16/13	17/15/12
Gear Motors	21/19/17	20/18/15	19/17/14
Radial Piston Motors	20/18/14	19/17/15	18/16/13

Target	Filter Needed*
20/18/15	20 micron
19/17/14	10 micron
18/16/13	5 micron
17/15/12	3 micron
16/14/11	3 micron**
15/13/10	3 micron**

*Assuming absolute filtration (beta>200).

** Two or more filters of this size may be needed to achieve target.



AHB Tooling & Machinery, Inc.
 Complete Metalworking Solutions
 Roseville Saginaw & Jackson, MI
 ISO Certified
 (800) 991-4225
 www.ahbinc.com
 customerservice@ahbinc.com