

RECOMMENDED* TARGET ISO CLEANLINESS CODES

SYSTEMS USING PETROLEUM BASED FLUIDS PER ISO 4406 FOR PARTICLE SIZES $4\mu_{[c]}/6\mu_{[c]}/14\mu_{[c]}$

	PRESSURE	PRESSURE	PRESSURE
	<138 bar <2000 psi	138-207 bar 2000-3000 psi	>207 bar >3000 psi
	<2000 psi	2000-3000 psi	>2000 hzi
Actuators			
Cylinders	17/15/12	16/14/11	15/13/10
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	20/18/14	19/17/13	18/16/13
Radial Piston Motors	20/18/15	19/17/14	18/16/13
Bearings			
Ball Bearing	15/13/10	-	-
Gearbox (Industrial)	17/16/13	-	-
Journal Bearing (High Speed)	17/15/12	-	-
Journal Bearing (Low speed)	17/15/12	-	-
Roller Bearing	16/14/11	-	-
Pumps			
Fixed Gear	20/18/15	19/17/15	-
Fixed Piston	19/17/14	18/16/13	17/15/12
Fixed Vane	20/18/15	19/17/14	18/16/13
Variable Piston	18/16/13	17/15/13	16/14/12
Variable Vane	18/16/13	17/15/12	-

	PRESSURE <138 bar <2000 psi	PRESSURE 138-207 bar 2000-3000 psi	PRESSURE >207 bar >3000 psi
Valves			
Cartridge	18/16/13	17/15/12	17/15/12
Check Valve	20/18/15	20/18/15	19/17/14
Directional (Solenoid)	20/18/15	19/17/14	18/16/13
Flow Control	19/17/14	18/16/13	18/16/13
Pressure Control (Modulating)	19/17/14	18/16/13	17/15/12
Proportional Cartridge Valve	17/15/12	17/15/12	16/14/11
Proportional Directional	17/15/12	17/15/12	16/14/11
Proportional Flow Control	17/15/12	17/15/12	16/14/11
Proportional Pressure Control	17/15/12	17/15/12	16/14/11
Servo Valve	16/14/11	16/14/11	15/13/10
Test Stands, Hy	drostatic		
Test Stands	17/15/12	16/14/11	15/13/10
Hydrostatic Transmissions	20/18/15	19/17/14	18/16/13

*NOTE:

[.] These are generic guidelines only. Please confirm exact oil cleanliness standards with OEM or filter supplier.
Oil analysis flagging limits can be adjusted as needed. Please contact Fluid Life Customer Care for assistance at 1-877-962-2400 or customercare@fluidlife.com.