

## Cleanliness Weighting Process

### Operating Pressure and Duty Cycle Weighting

		Operating Pressure (Bar)				
Duty	Examples	0-60	>60-160	>160-250	>250-400	>400
Light	Continuous operation at or below rated pressure	1	1	2	3	4
Medium	Medium pressure changes up to related pressure	2	3	4	5	6
Heavy	Zero to full pressure	3	4	5	6	7
Severe	Zero to full pressure with transients at high frequency	4	5	6	7	8
					<b>Score</b>	

### Component Sensitivity Weighting

Sensitivity	Examples	Weighting
Minimal	Ram pumps	1

Below Average	Low performance gear pumps, manual and poppet valves	2
Average	Vane pumps, electro hydraulic spool valves, high performance gear pumps	3
Above Average	Piston pumps, proportional valves	4
High	Industrial servo valves, high performance proportional valves	6
Very High	High performance servo valves	8
		<b>Score</b>

**Life Expectance Weighting**

Life Expectance (Hours)	Weighting	
1	0	
1,000 - 5,000	1	
5,000 - 10,000	2	
10,000 - 20,000	3	
20,000 - 40,000	4	
40,000 +	5	
		<b>Score</b>

**Cost of Component Weighting**

<b>Cost of Component Replacement</b>	<b>Examples</b>	<b>Weighting</b>
Low	Manifold mounted valves, inexpensive pumps	1
Average	Line mounted and modular valves	2
High	Cylinders, proportional valves	4
Very High	Larger piston pumps, large high torque low speed motors, high performance servo components	6
		<b>Score</b>

**Downtime Weighting**

<b>Downtime Cost</b>	<b>Examples</b>	<b>Weighting</b>
Low	Equipment not critical to production or operation	1
Average	Small to medium production plant	2
High	High volume production plant	4
Very High	Very expensive downtime e.g. flow lines	6
		<b>Score</b>

**Safety Liabilities Weighting**

Safety Liability	Examples	Weighting
Low	Where failure is unlikely to cause a hazard	1
Average	Where failure is likely to cause a hazard	3
High	Mine winding gear braking systems, leisure rides	6
		<b>Score</b>

**Environmental Weighting**

Environment	Examples	Weighting
Good	Clean areas, laboratories, few ingress points, filtered filling and appropriate air breathers	0
Fair	General machine shops, lifts, filtered filling and appropriate air breathers	1
Poor	General machine shops with minimal control	3
Hostile	Foundries and places where ingress of contaminant is expected e.g. concrete plant, quarries,	5
		<b>Score</b>

<b>Total for Target ISO (Weighting Score 1 to 6)</b>	<b>0</b>
<b>Total for Filtration Rating (Weighting Score 1 to 7)</b>	<b>0</b>

Weighting	Target ISO 4406 Code	Minimum Filter Rating
6	22/20/17	

Weighting	Target ISO 4406 Code	Minimum Filter Rating
6	22/20/17	20 to 25 Micron
8	21/19/16	
10	20/18/15	
12	19/17/14	10 to 12 Micron
14	18/16/13	
16	17/15/12	
18	16/14/11	5 to 6 Micron
20	15/13/10	
22	14/12/09	
24	13/11/08	3 Micron
26	12/10/07	
28	11/09/06	
30	10/08/05	1 Micron
32	09/07/04	
34	08/06/03	
36	07/05/02	
38	06/04/01	



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