



Steve Skinner, Eaton Hydraulics, Havant, UK

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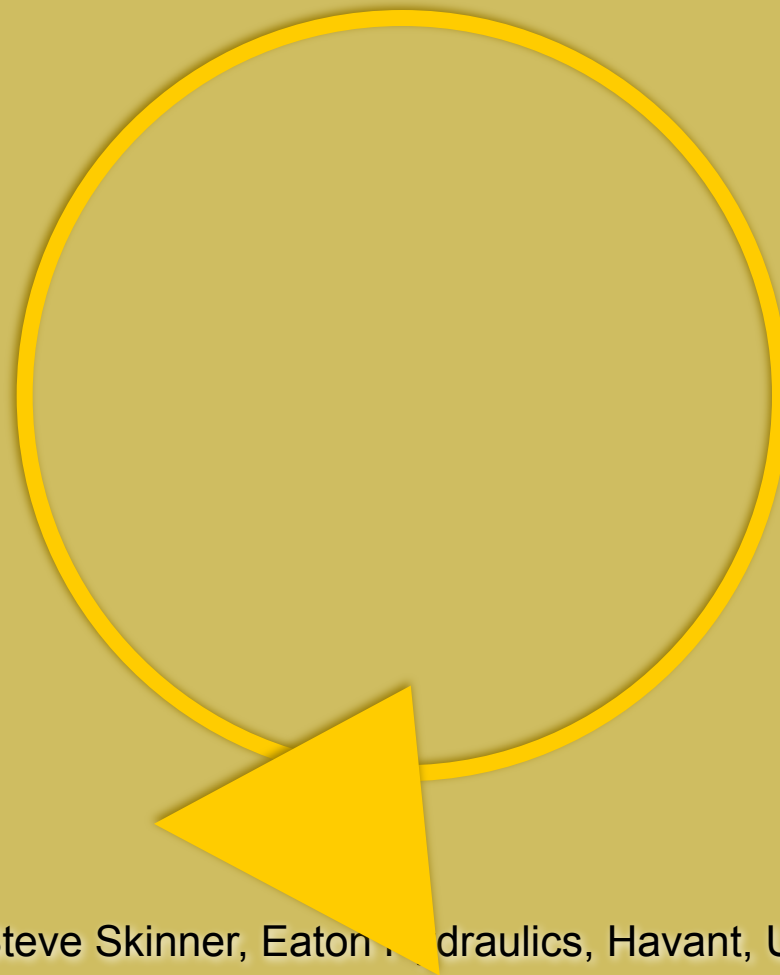
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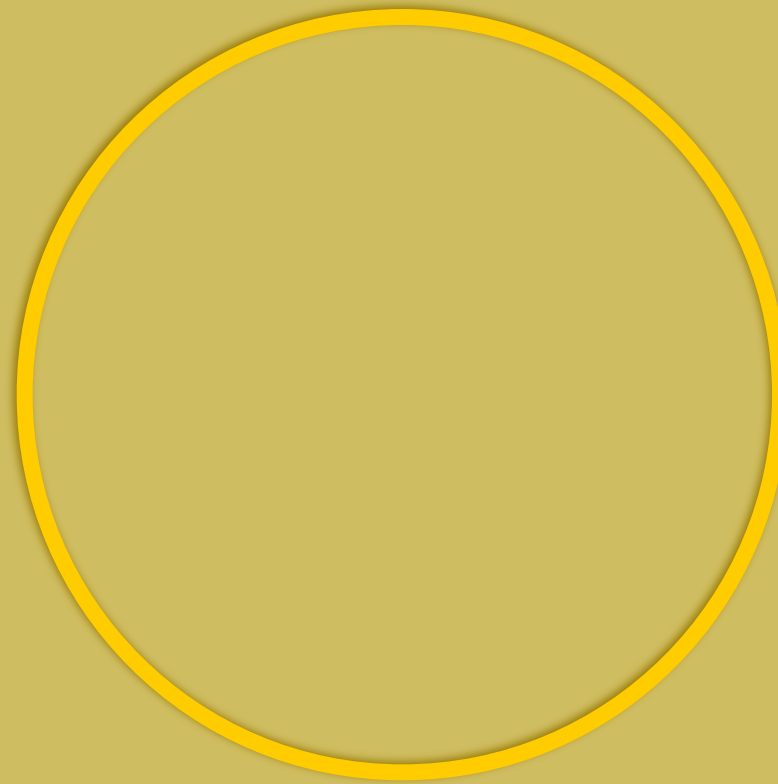
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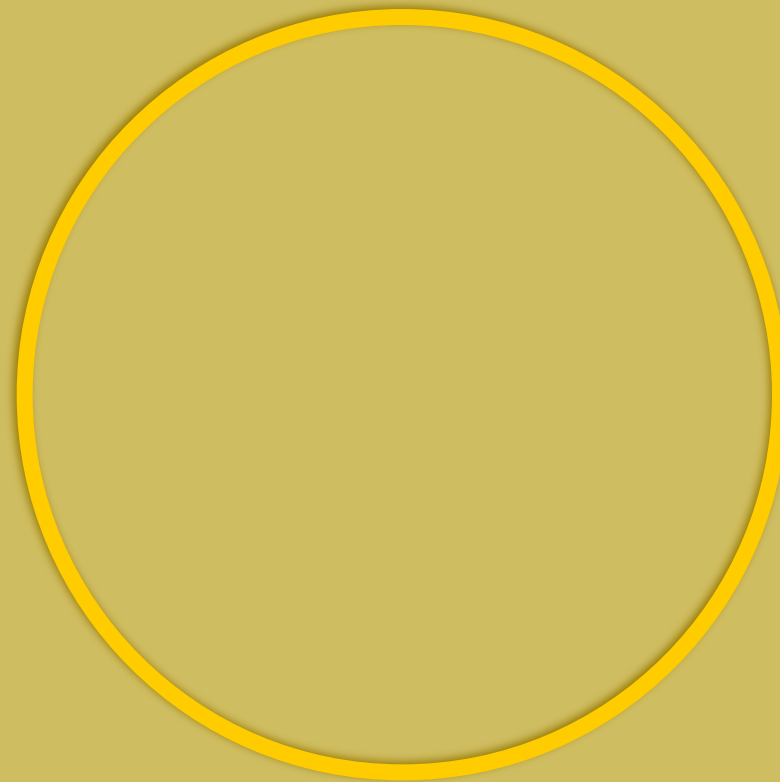
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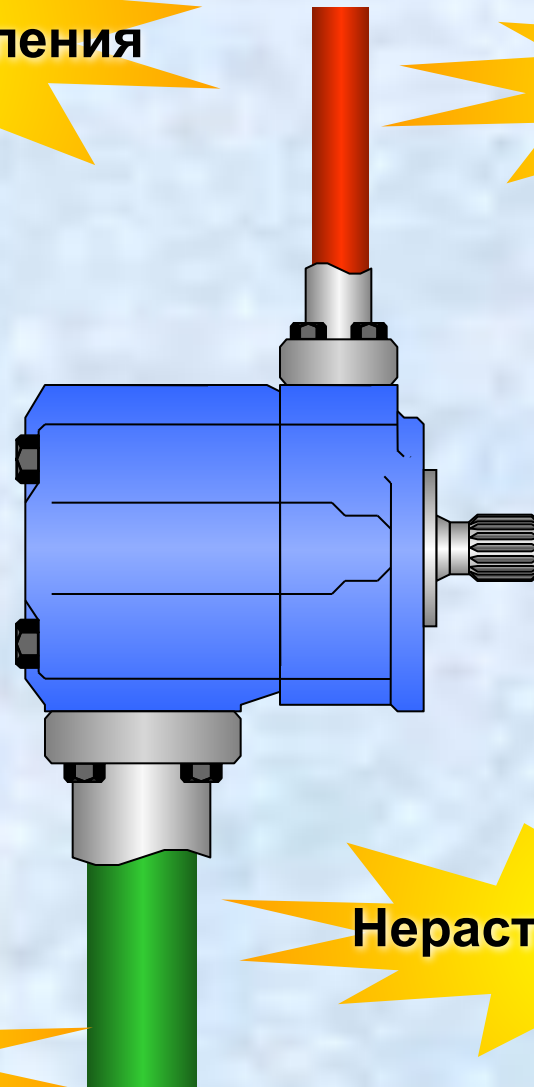


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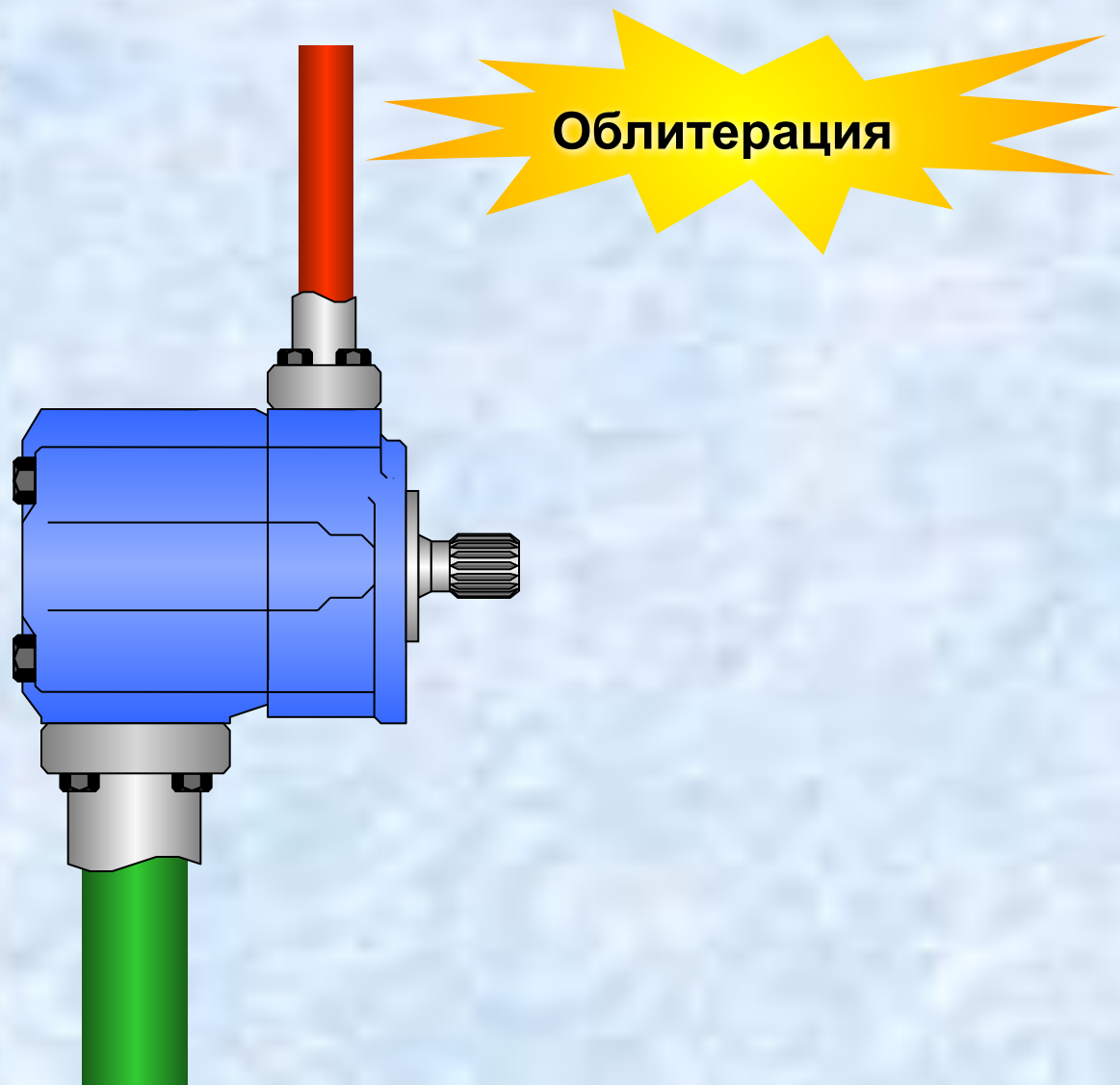
Пульсации давления

Облитерация



Кавитация

Нерастворенный воздух



От 70 до 90% всех отказов в гидравлической системе связаны с плохой подготовкой рабочей жидкости.

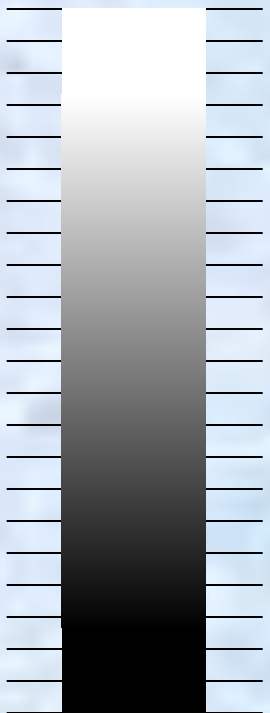




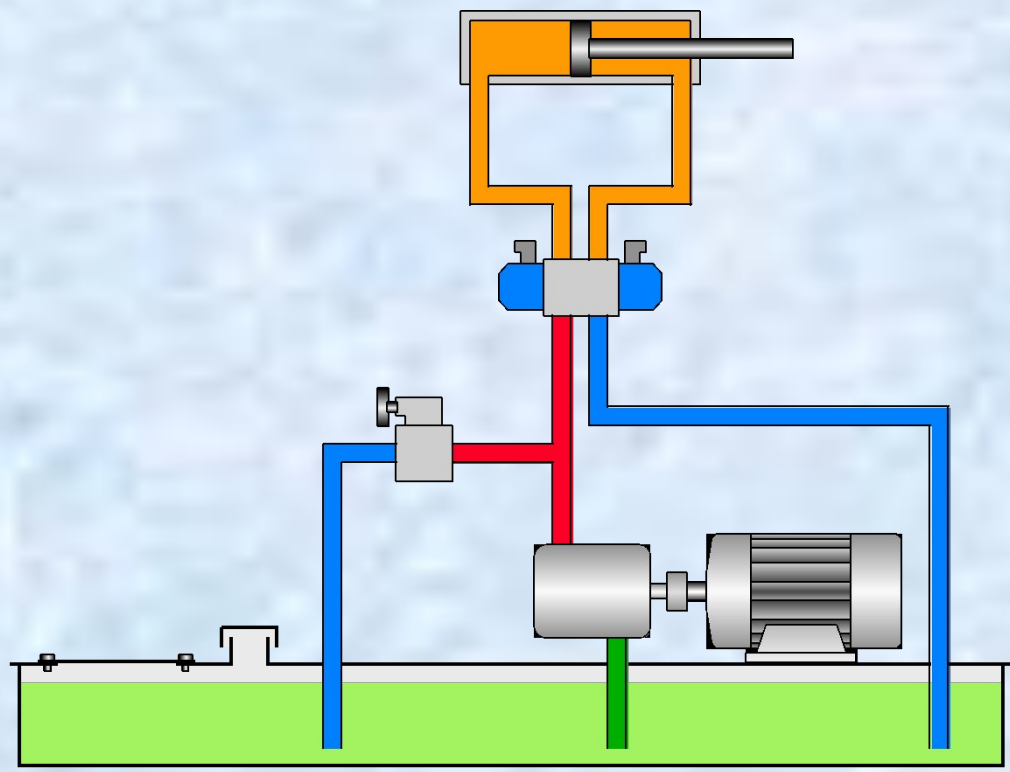
Требуемое значение

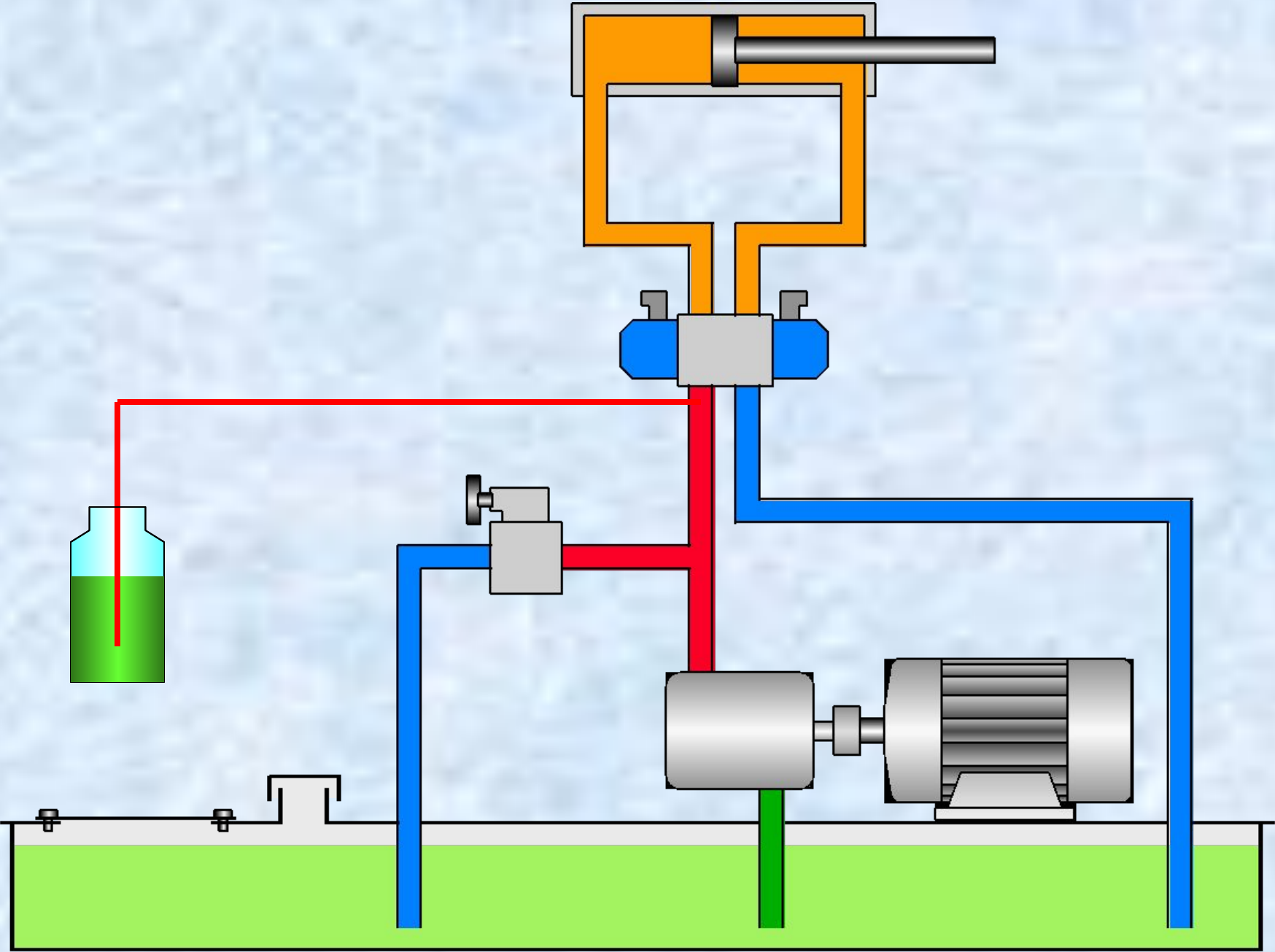
Текущее значение

Очищенная



Загрязненная





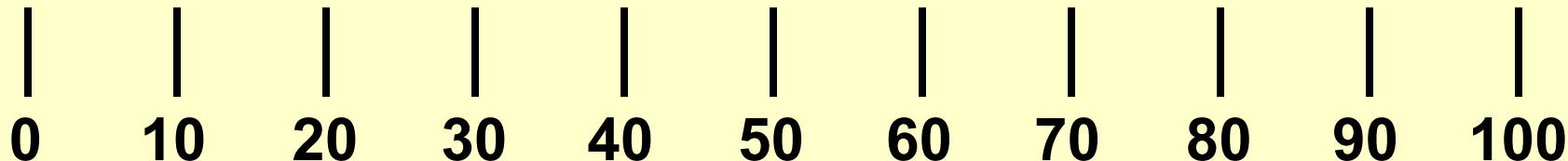
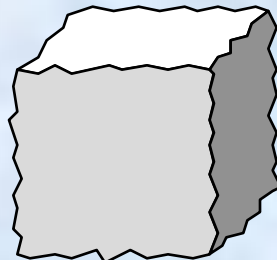
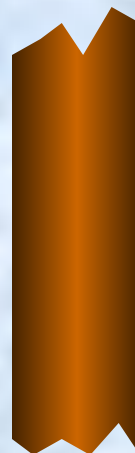
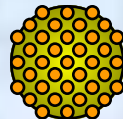
1 Микрометр (μm) = 0.000001 Метр = 0.001 миллиметр



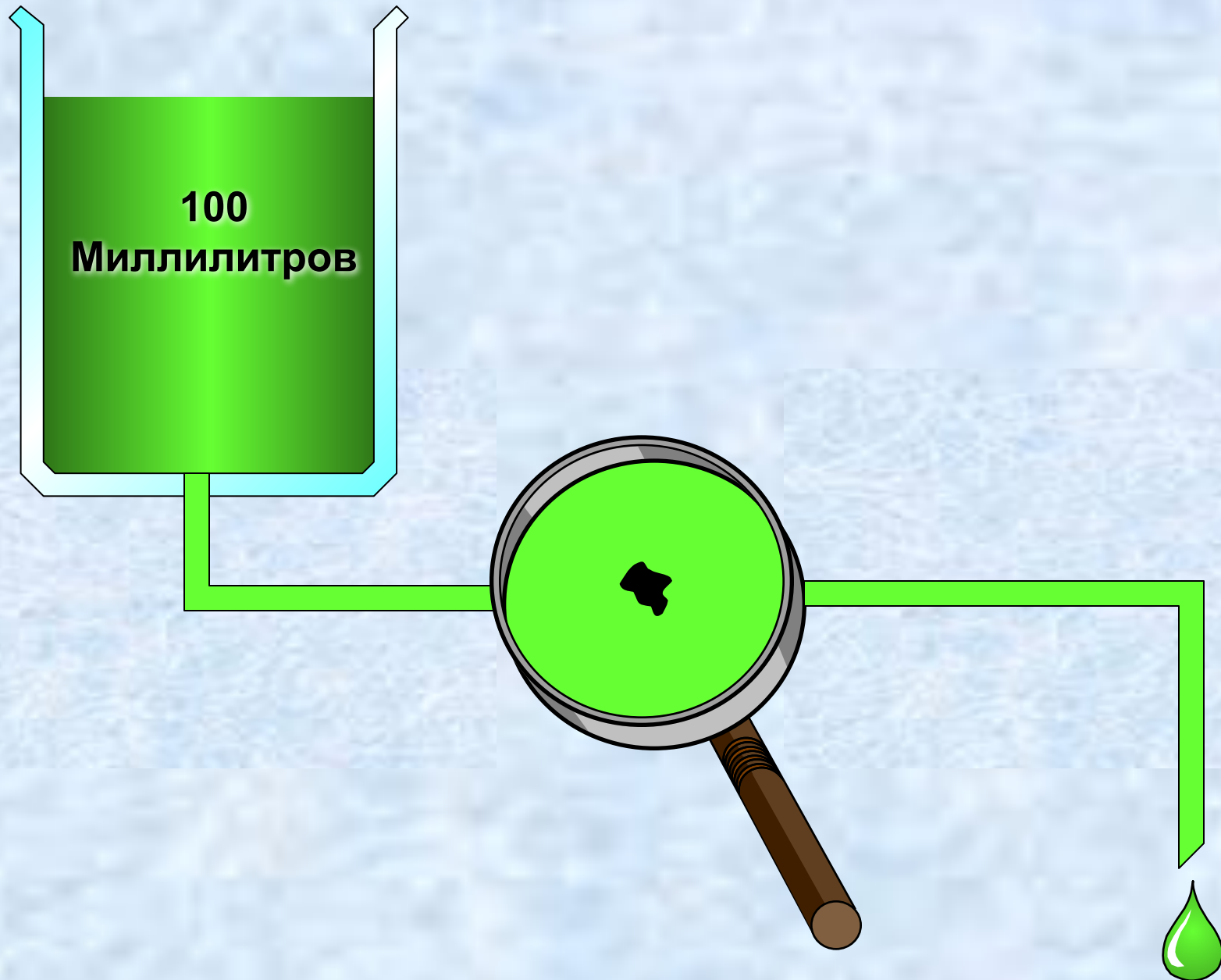


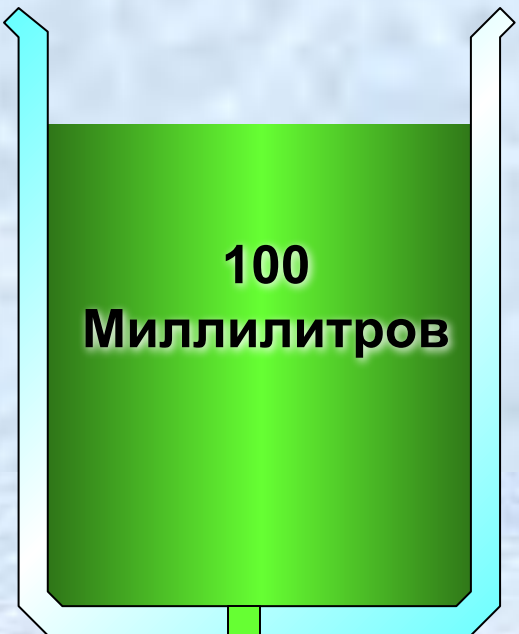
Человеческий
Пыльца волос

Кристалл
соли



Микрометр





> 2 μ m

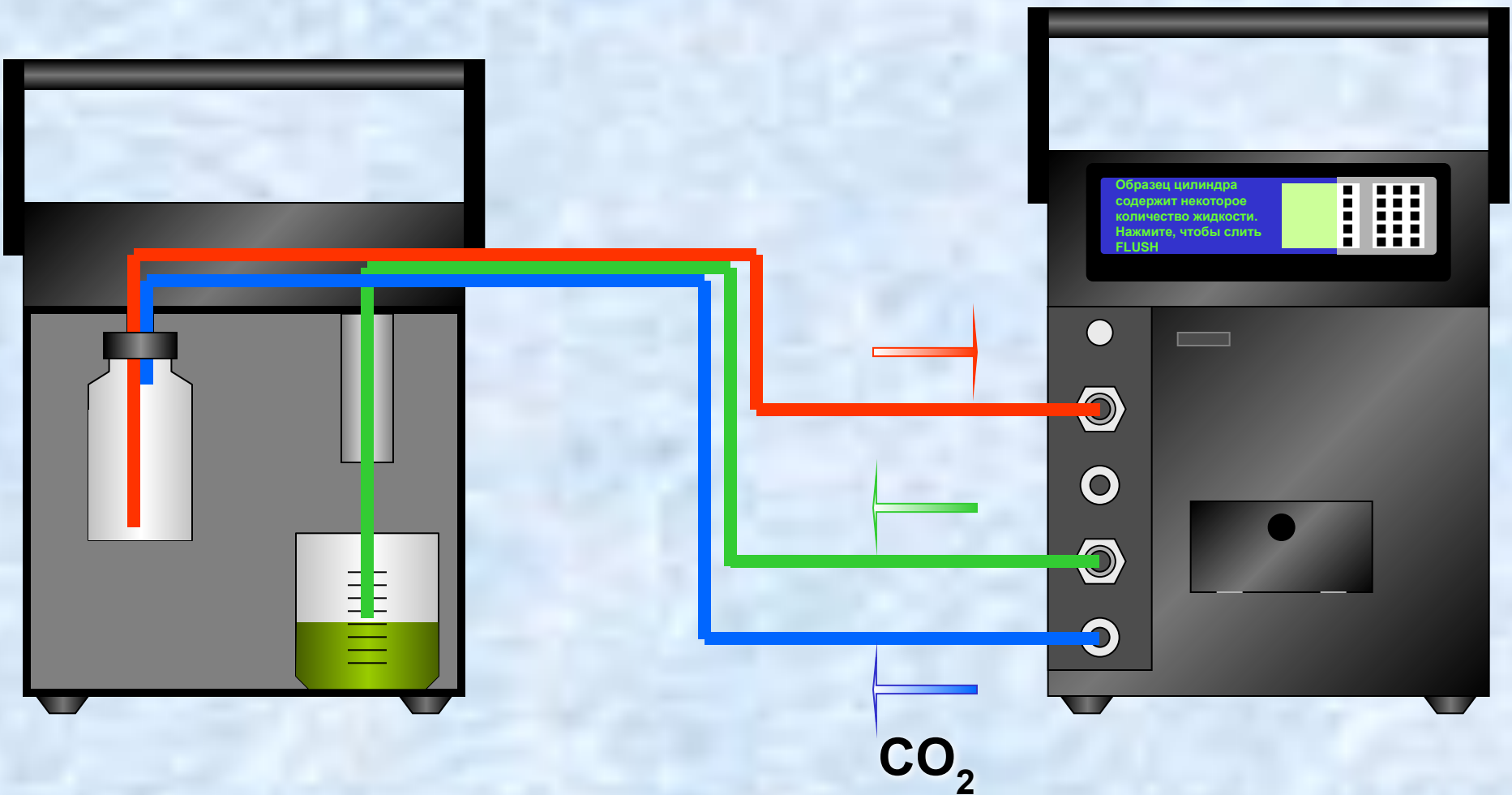


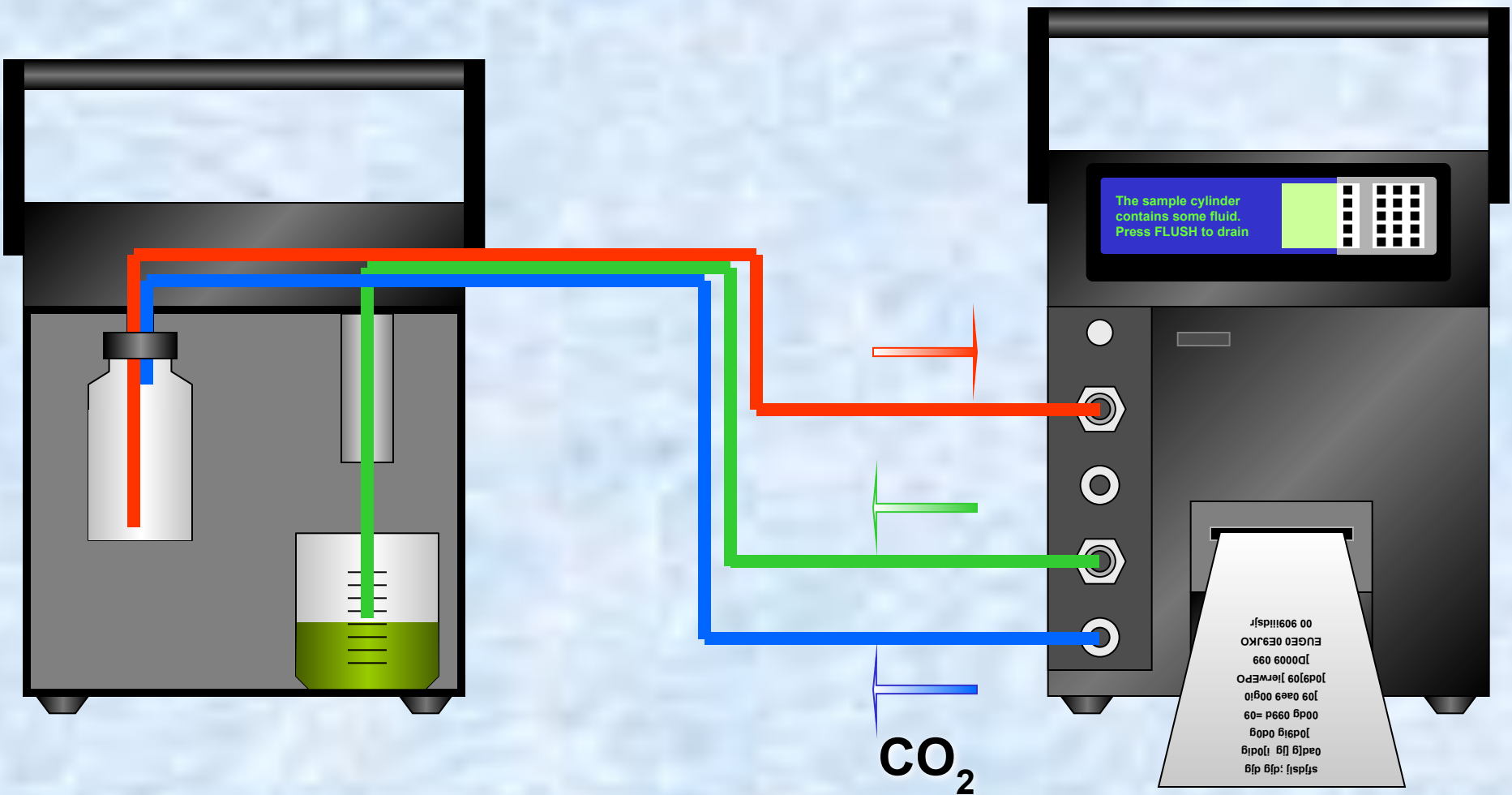
> 5 μ m

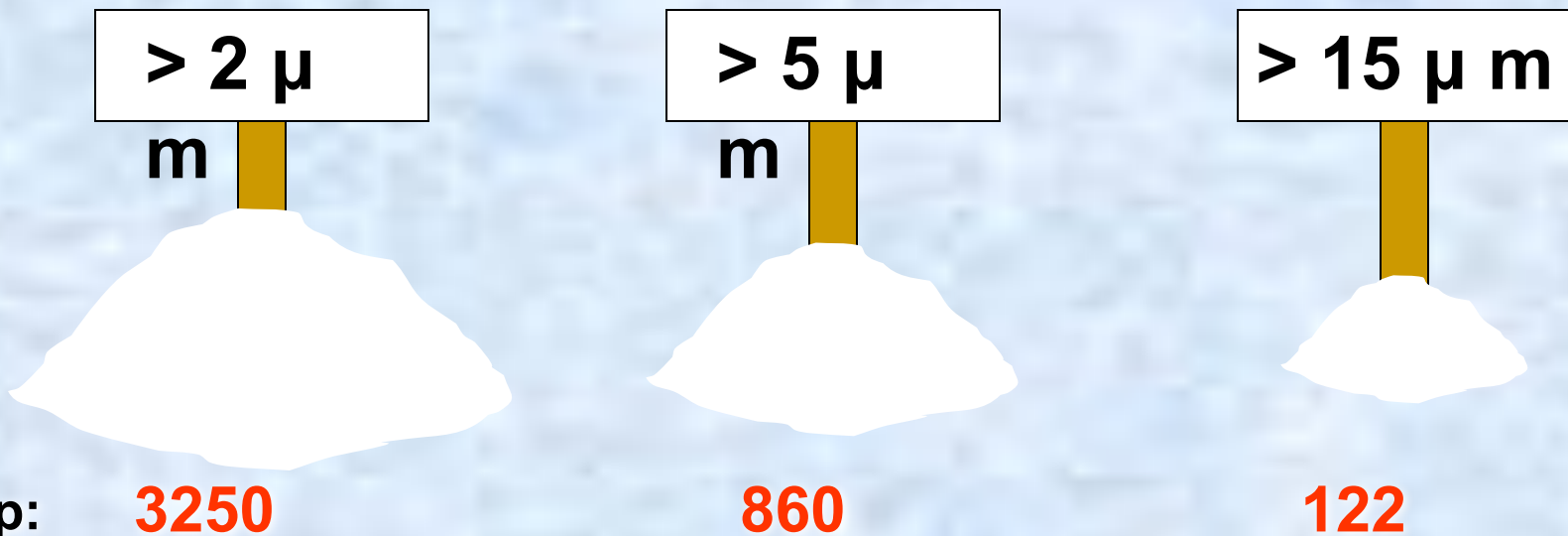


> 15 μ m









Пример:
на 100 мл

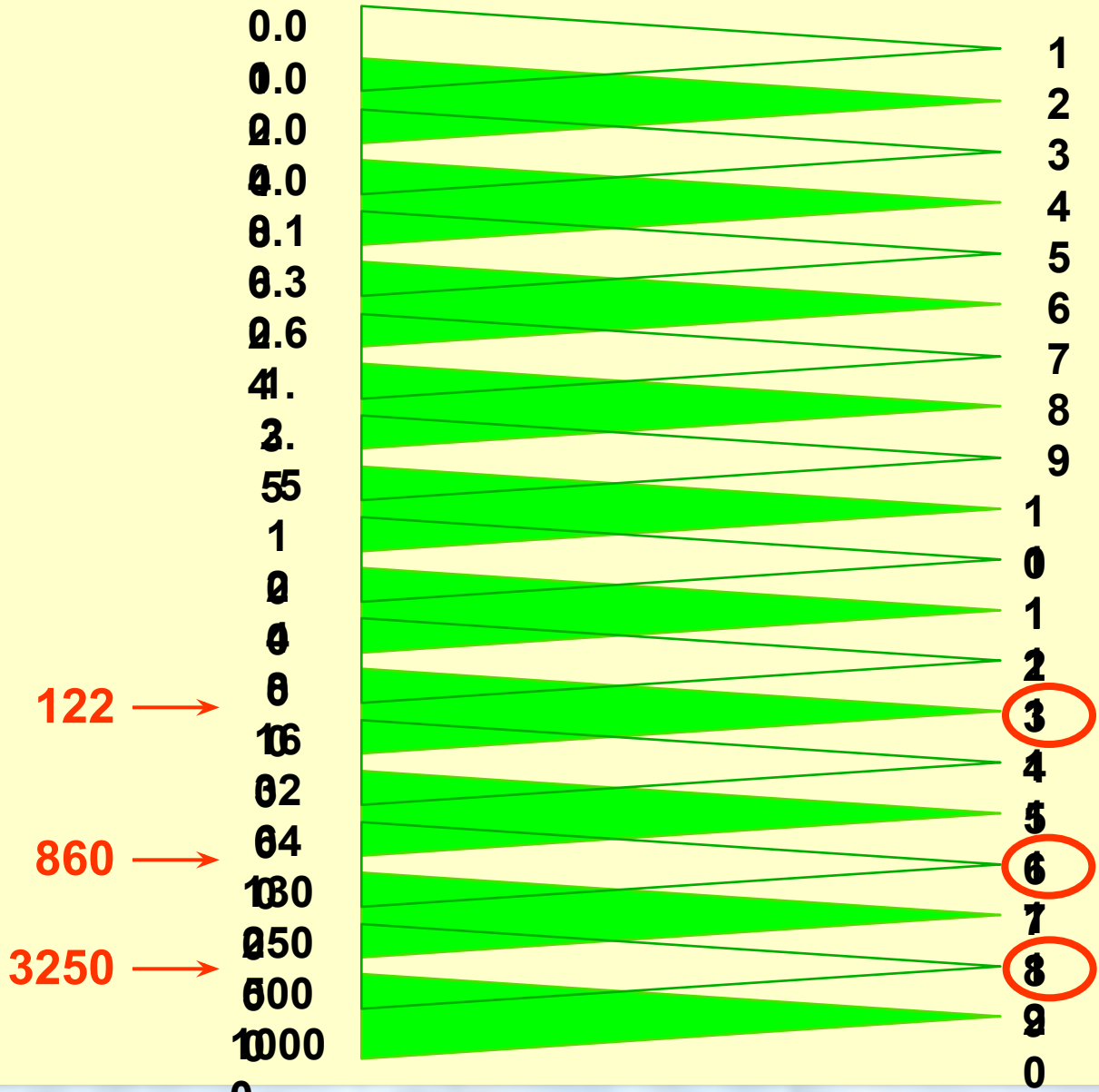
Целевая программа фирмы VICKERS

Проба: Двигатель № 1
 Дата: 8.1.99
 Объем пробы: 30мл
 Расход: 50 - 25 мл/мин
 Полученные значения: Кол-во частиц / мл
 ISO: 22/17/13
 NAS: 8

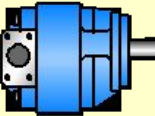
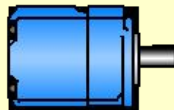
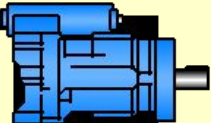
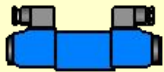
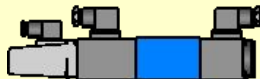


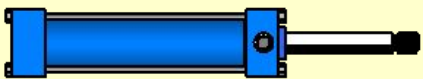
	Мин	Макс	Среднее	значение
2μm	3214	3285	3250	
5 μm	832	887	860	
15 μm	119	124	122	
25 μm	7	12	9	
50 μm	0	1	0	
100 μm		0	0	0

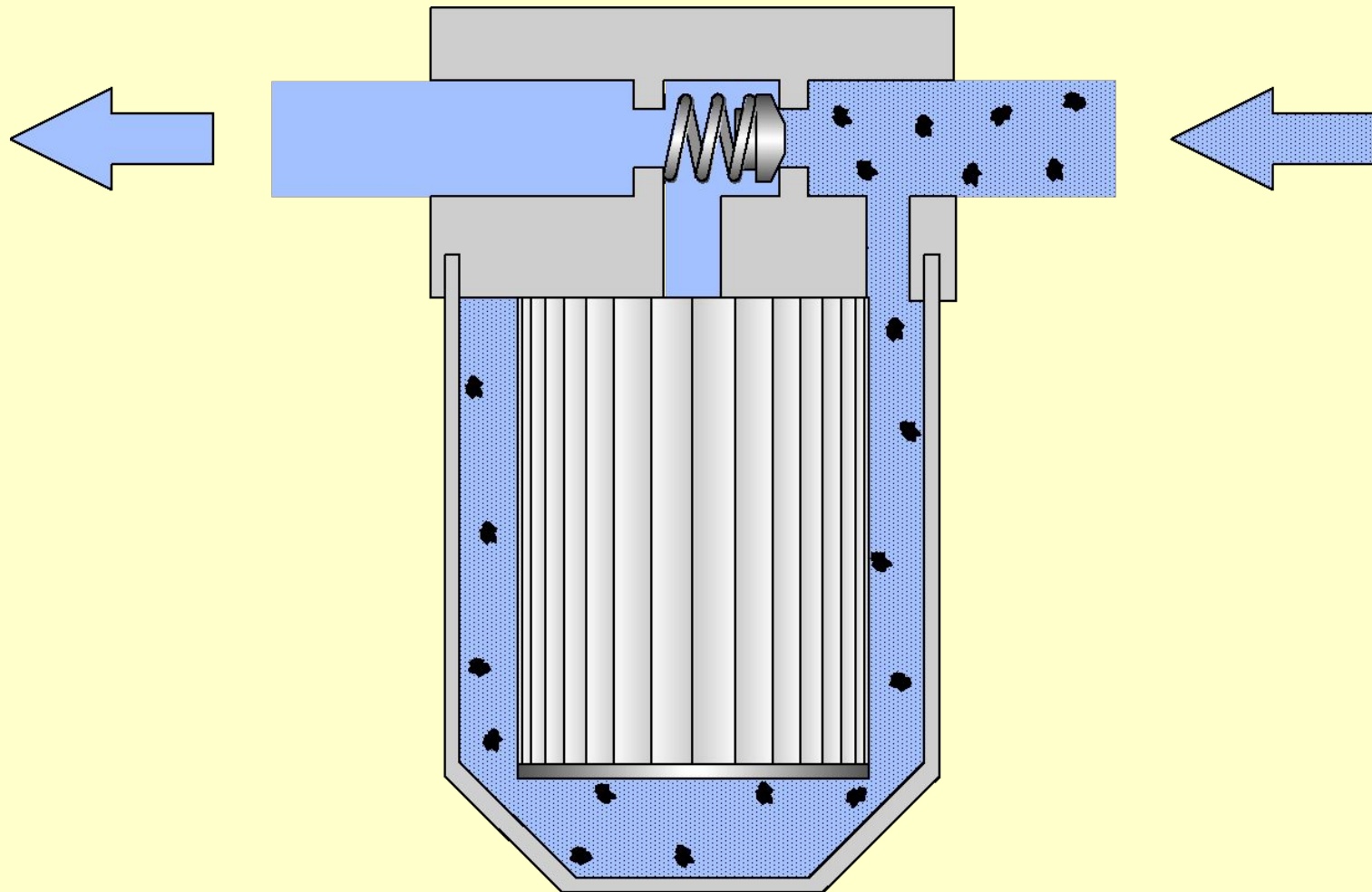
Количество частиц/мл

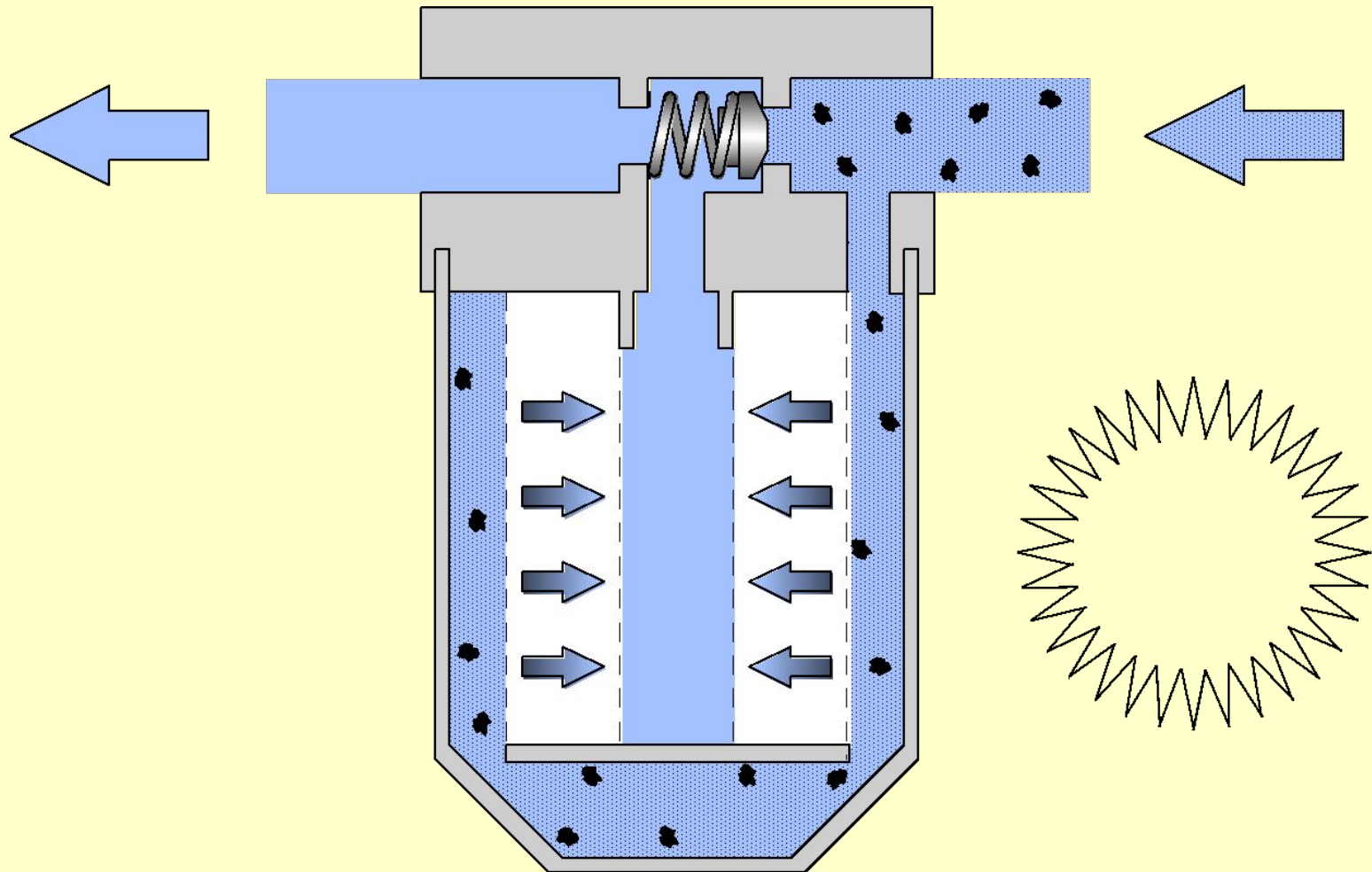
Код

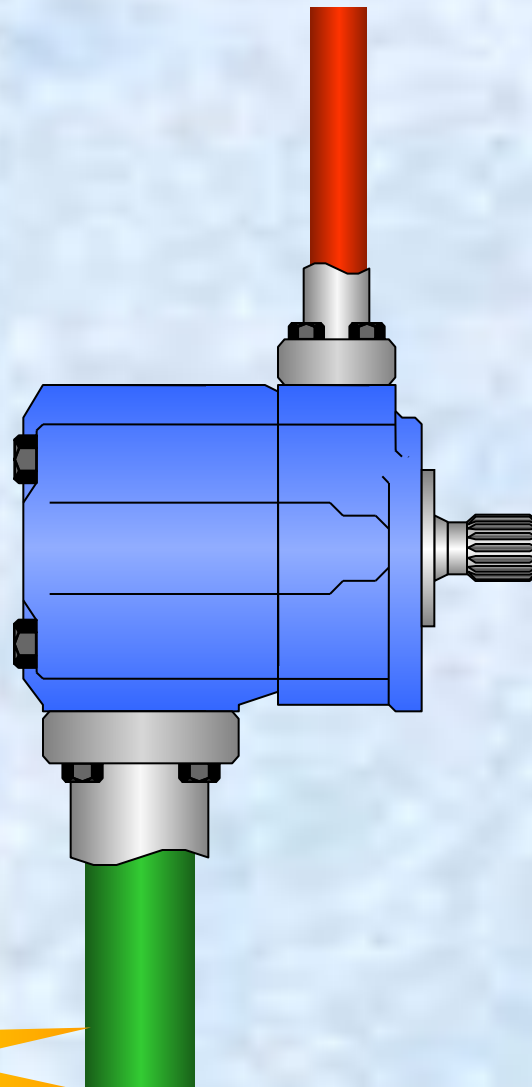


Кодировка загрязнений ISO

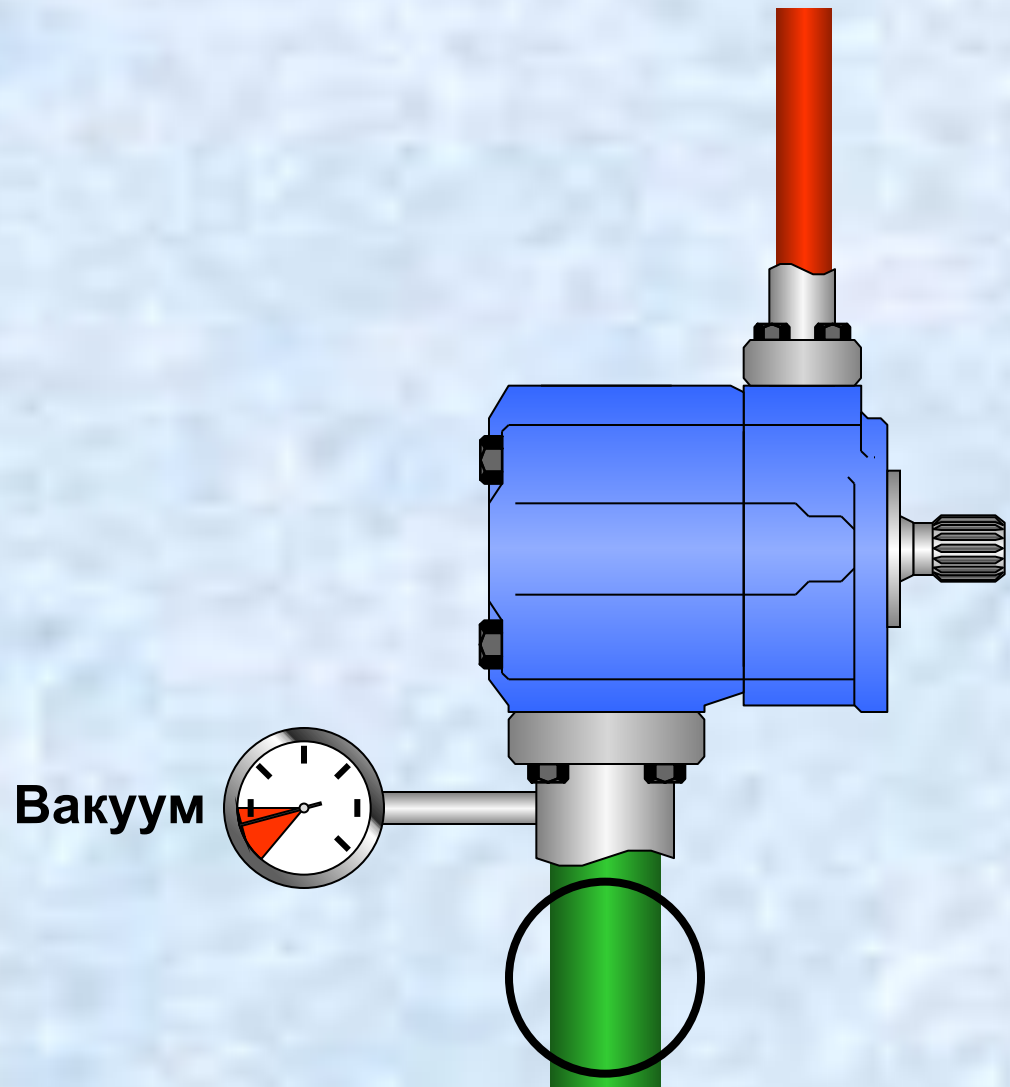
	P < 140 bar	P < 210bar	P > 210 bar
	20/18/15	19/17/15	18/16/13
	20/18/15	19/17/14	18/16/13
	18/16/14	17/15/13	16/14/12
		20/18/15	19/17/14
		18/16/13	17/15/12
		20/18/15	19/17/14
		18/16/13	17/15/12
	20/18/15	20/18/15	20/18/15

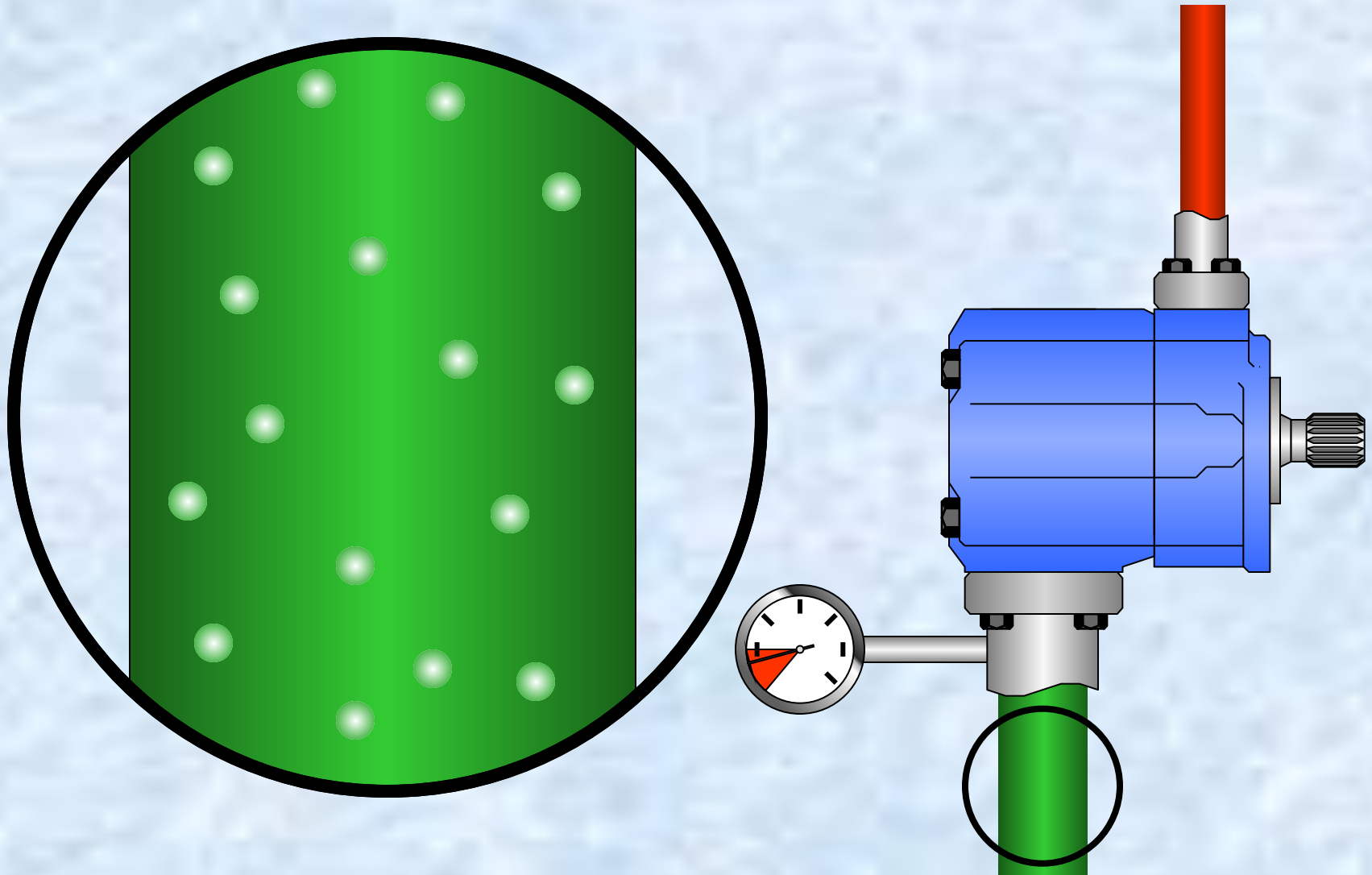


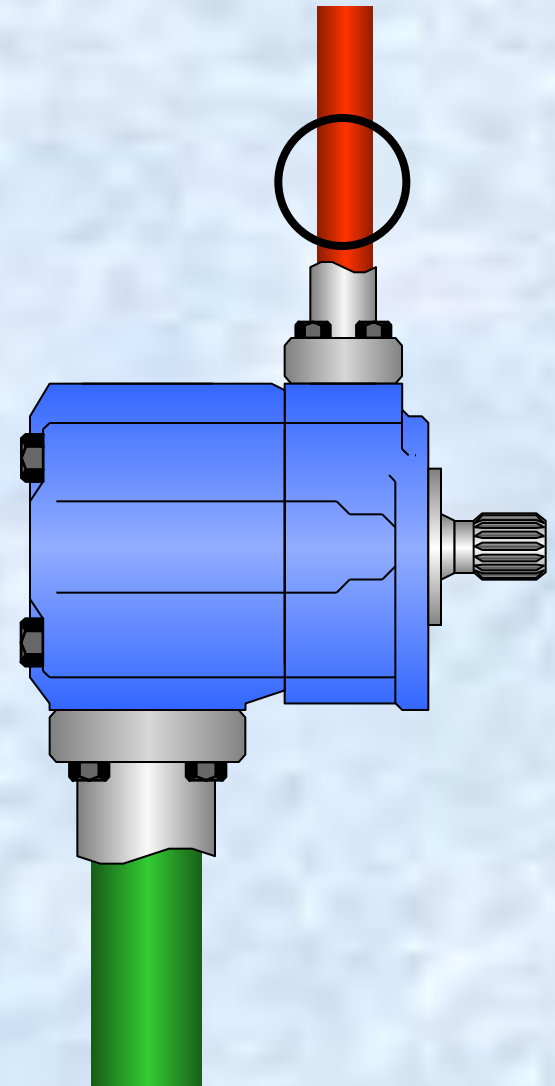
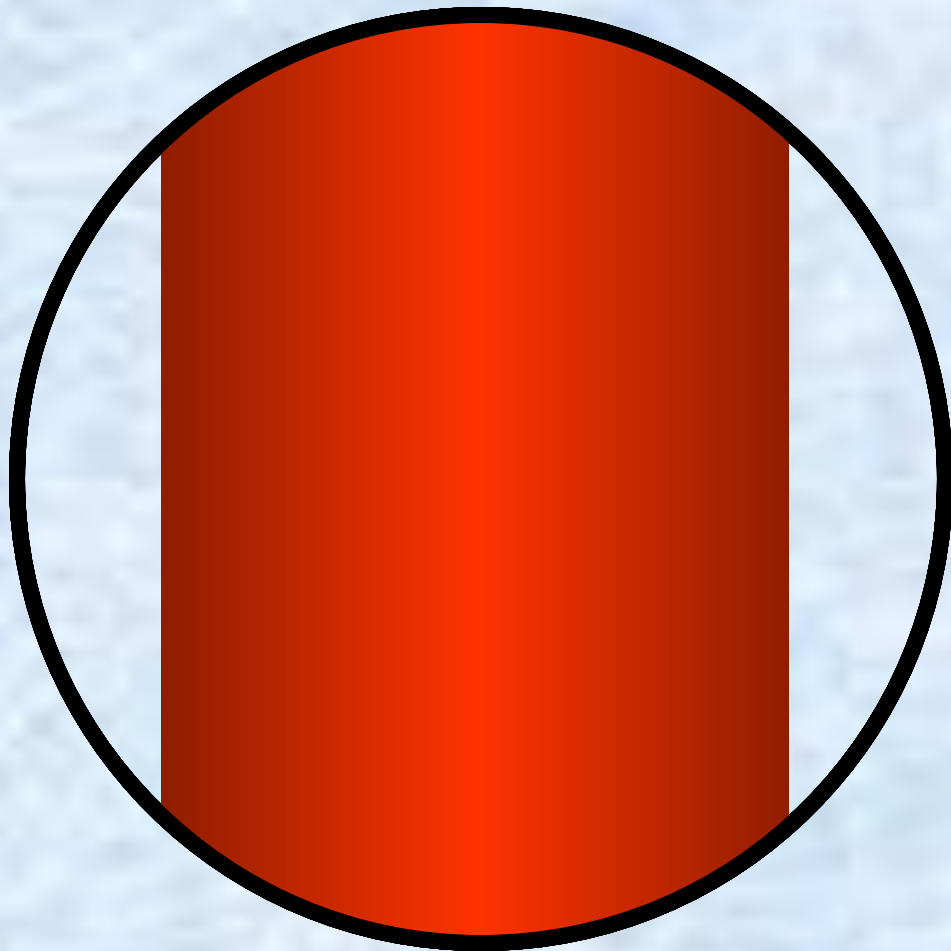




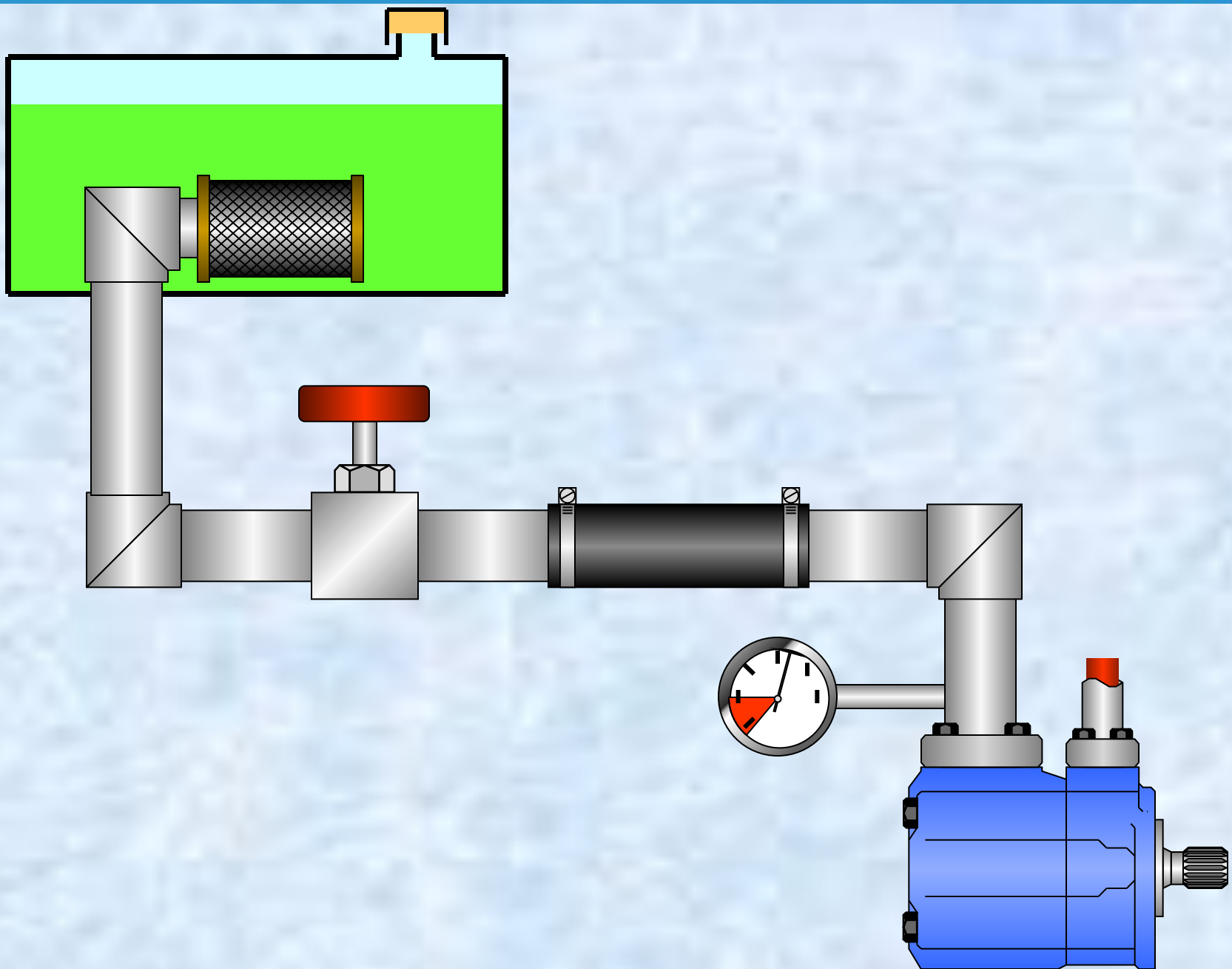
Кавитация

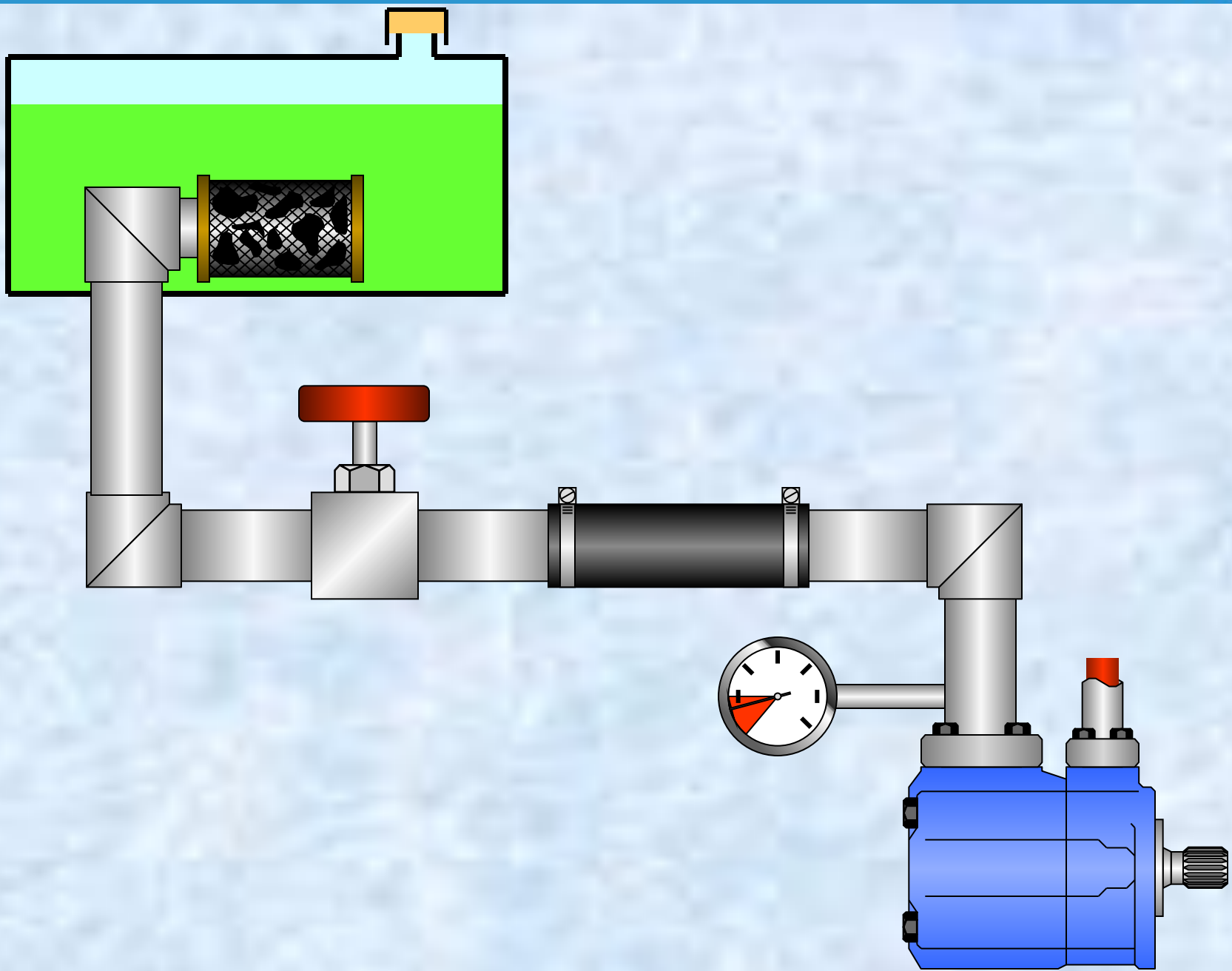




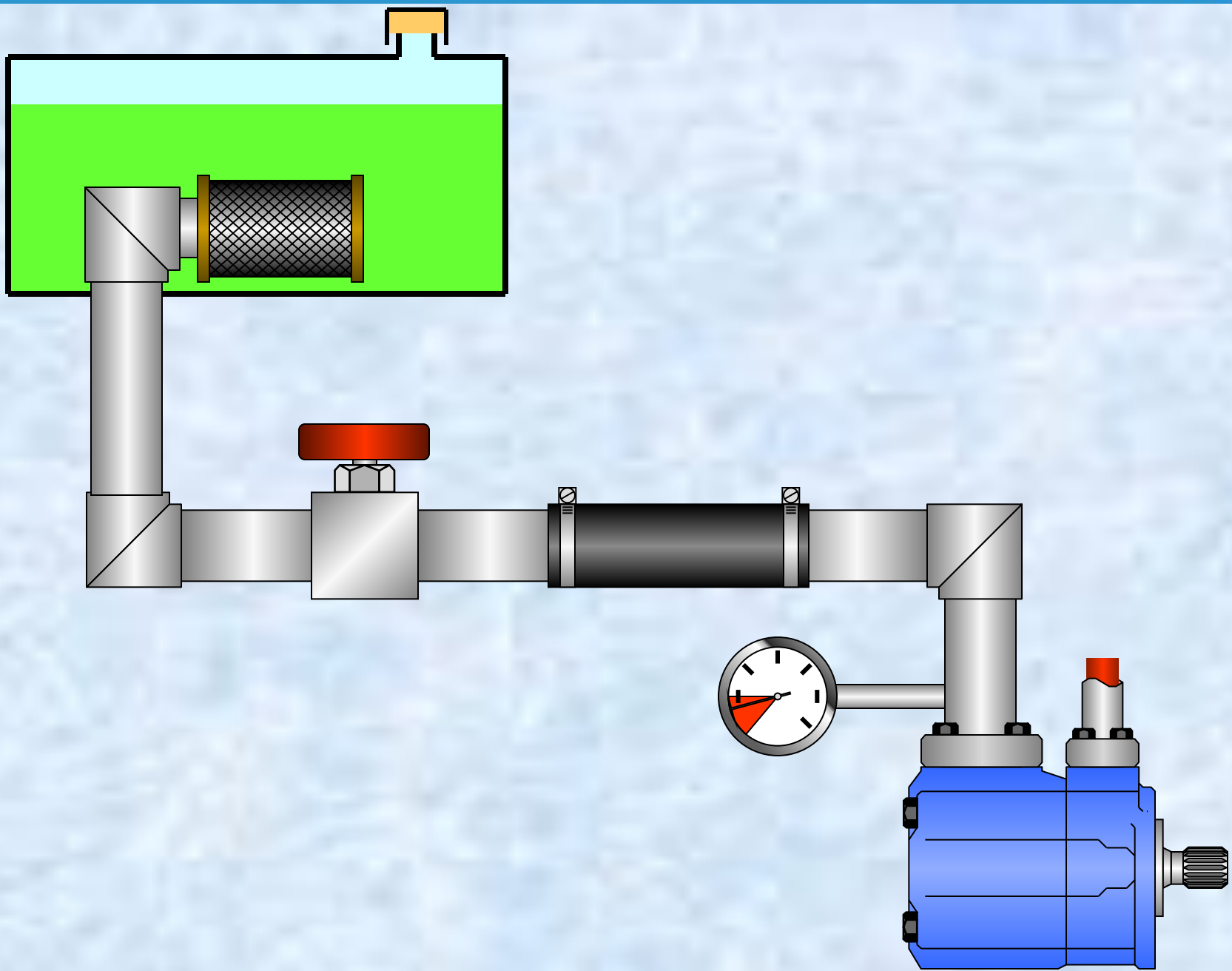


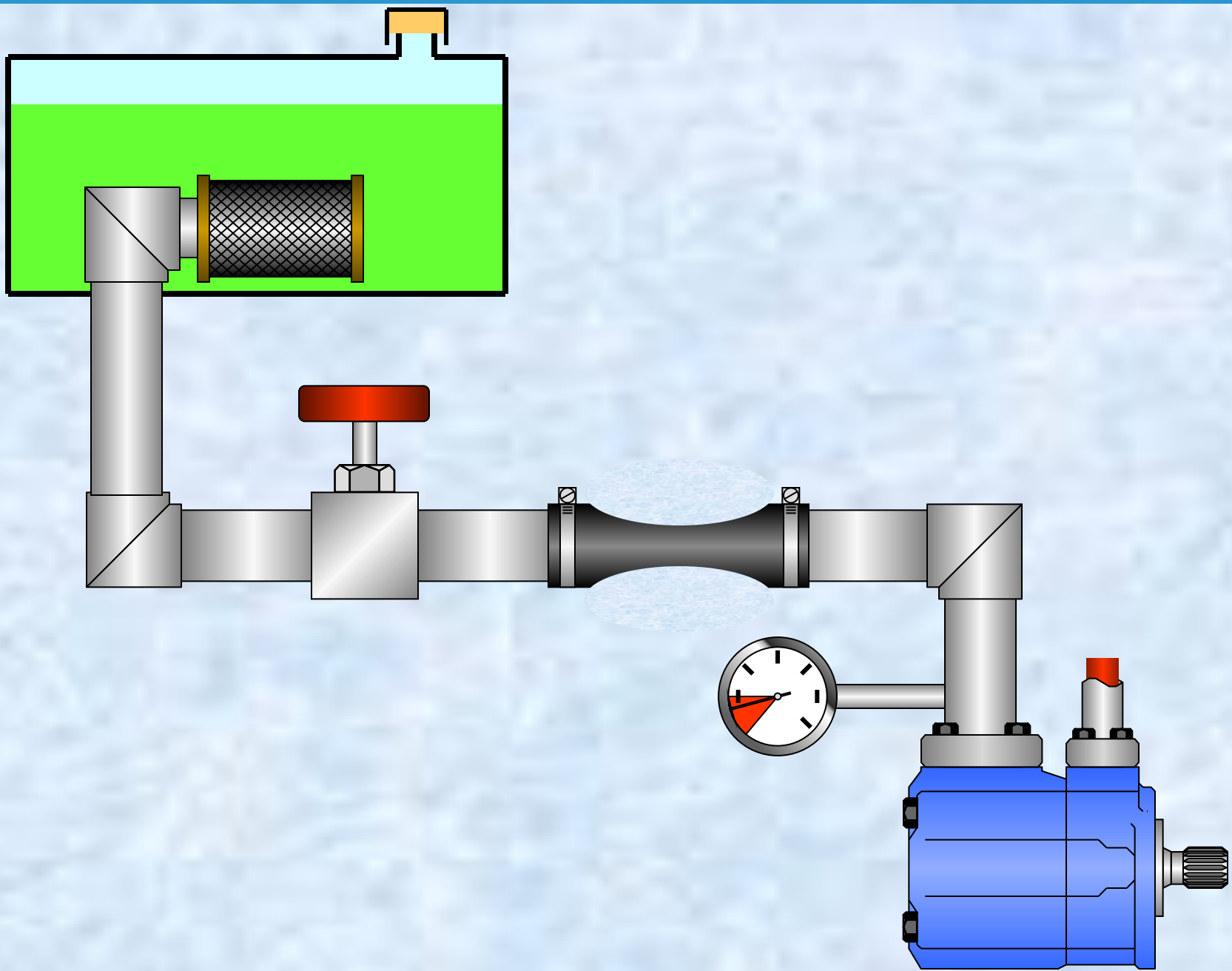


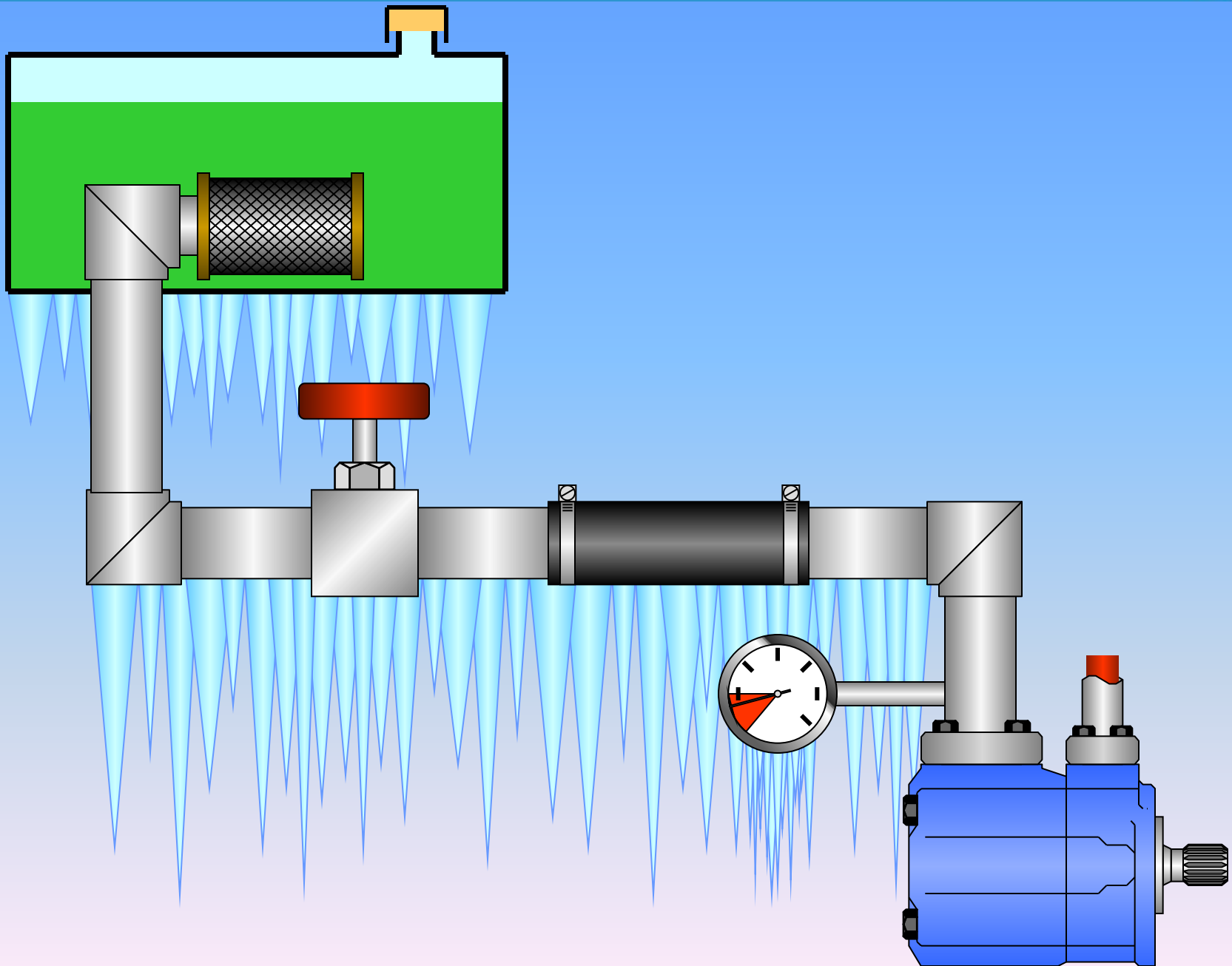


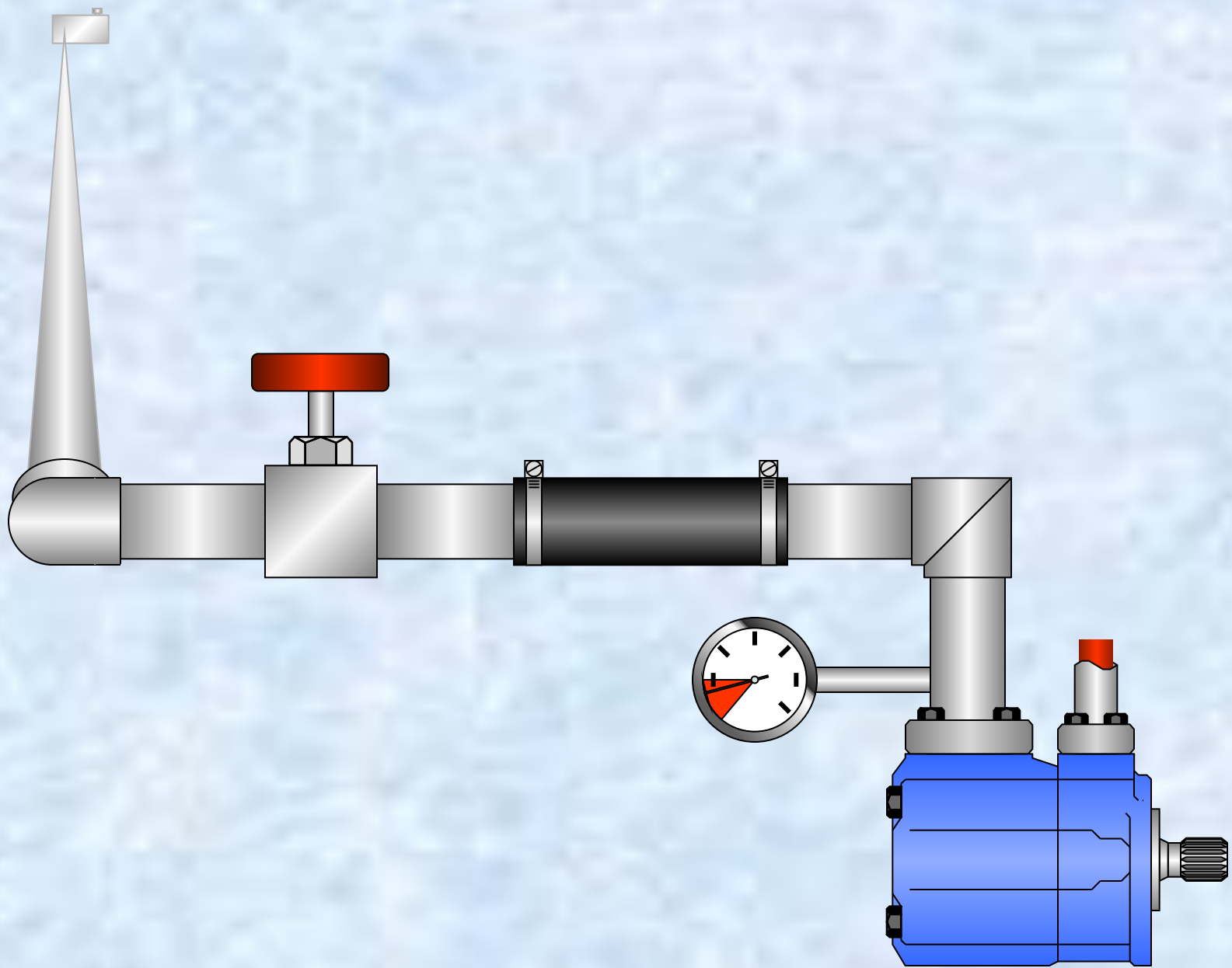


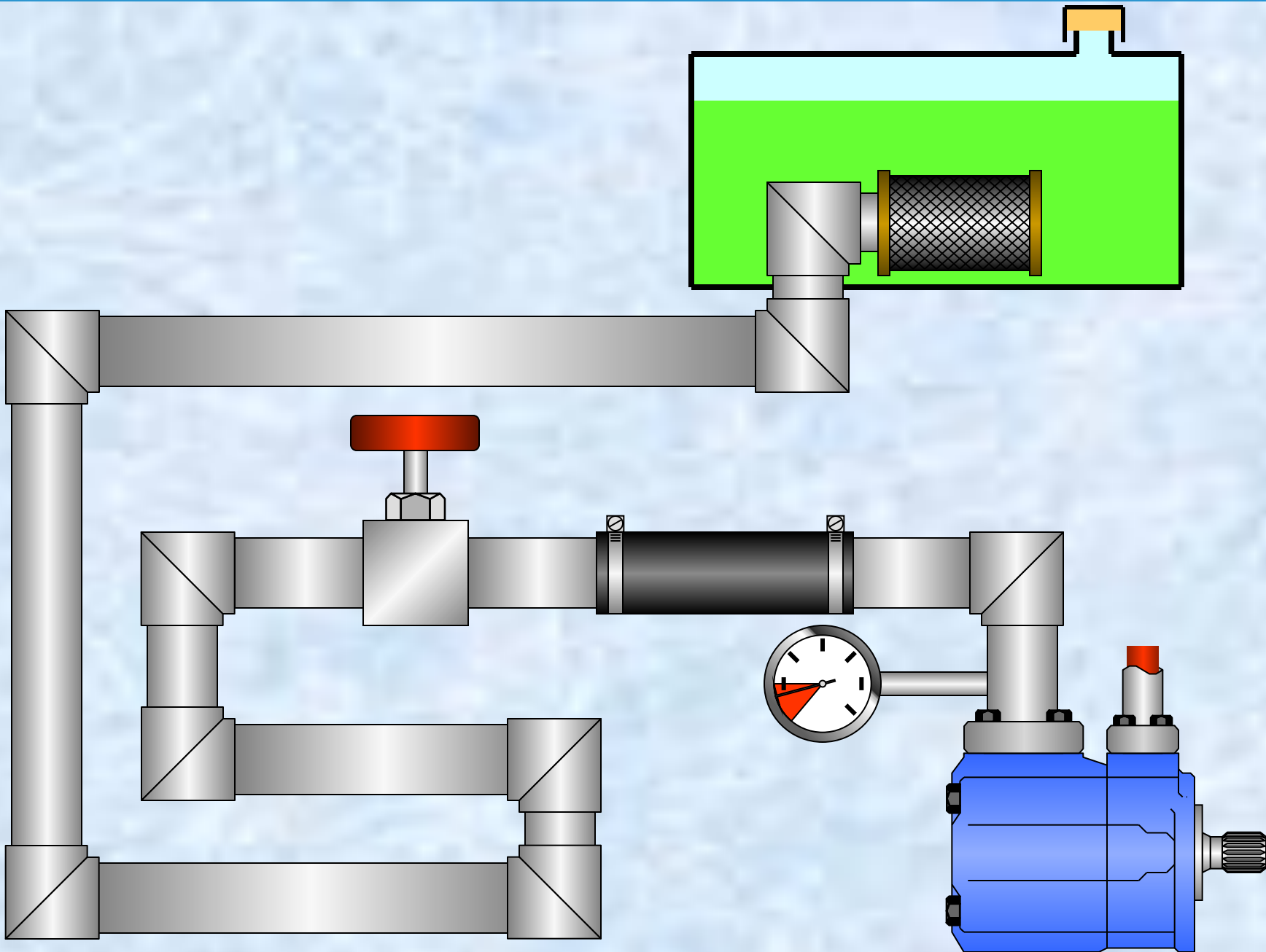
Возникновение кавитации – закрыт перепускной клапан



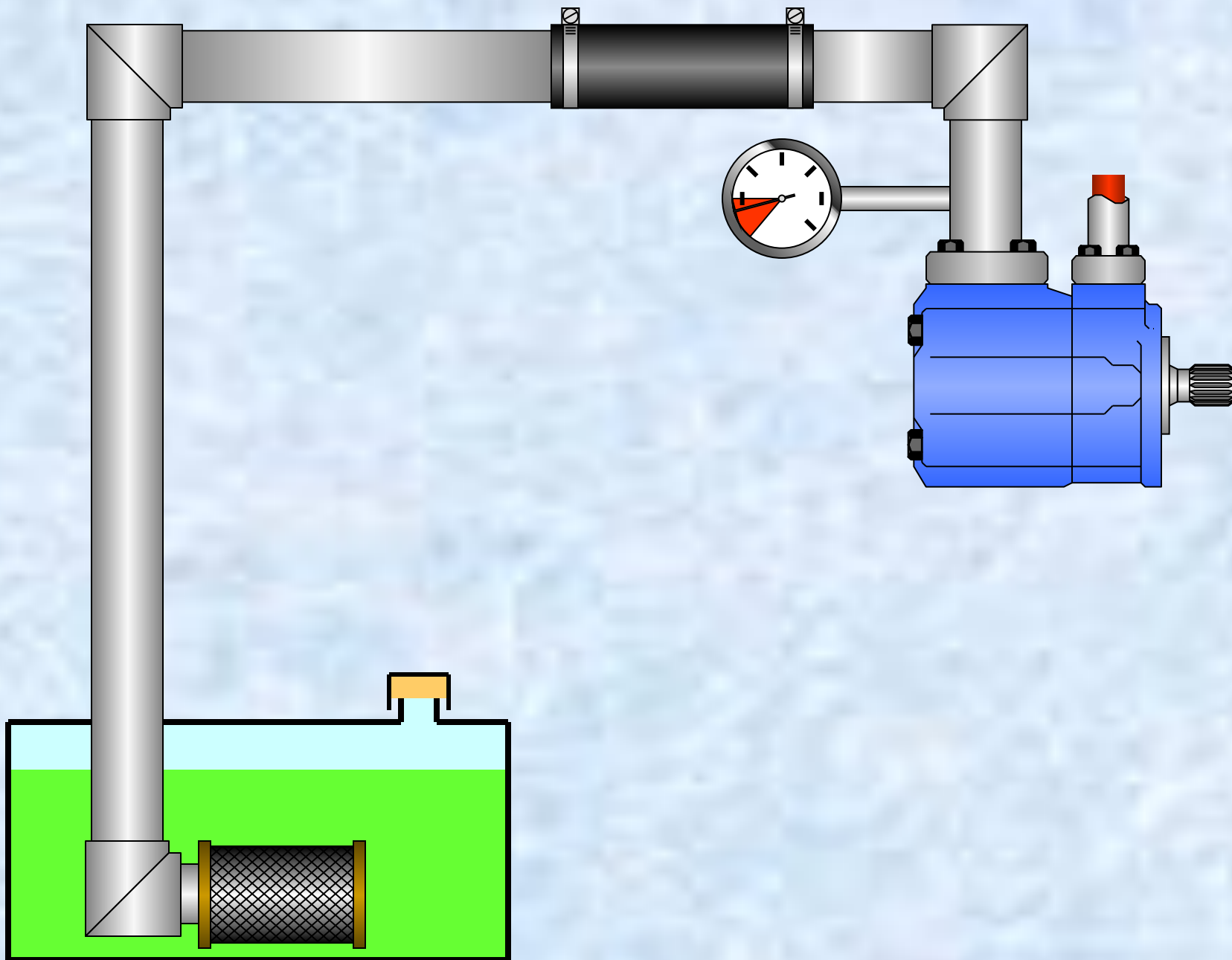




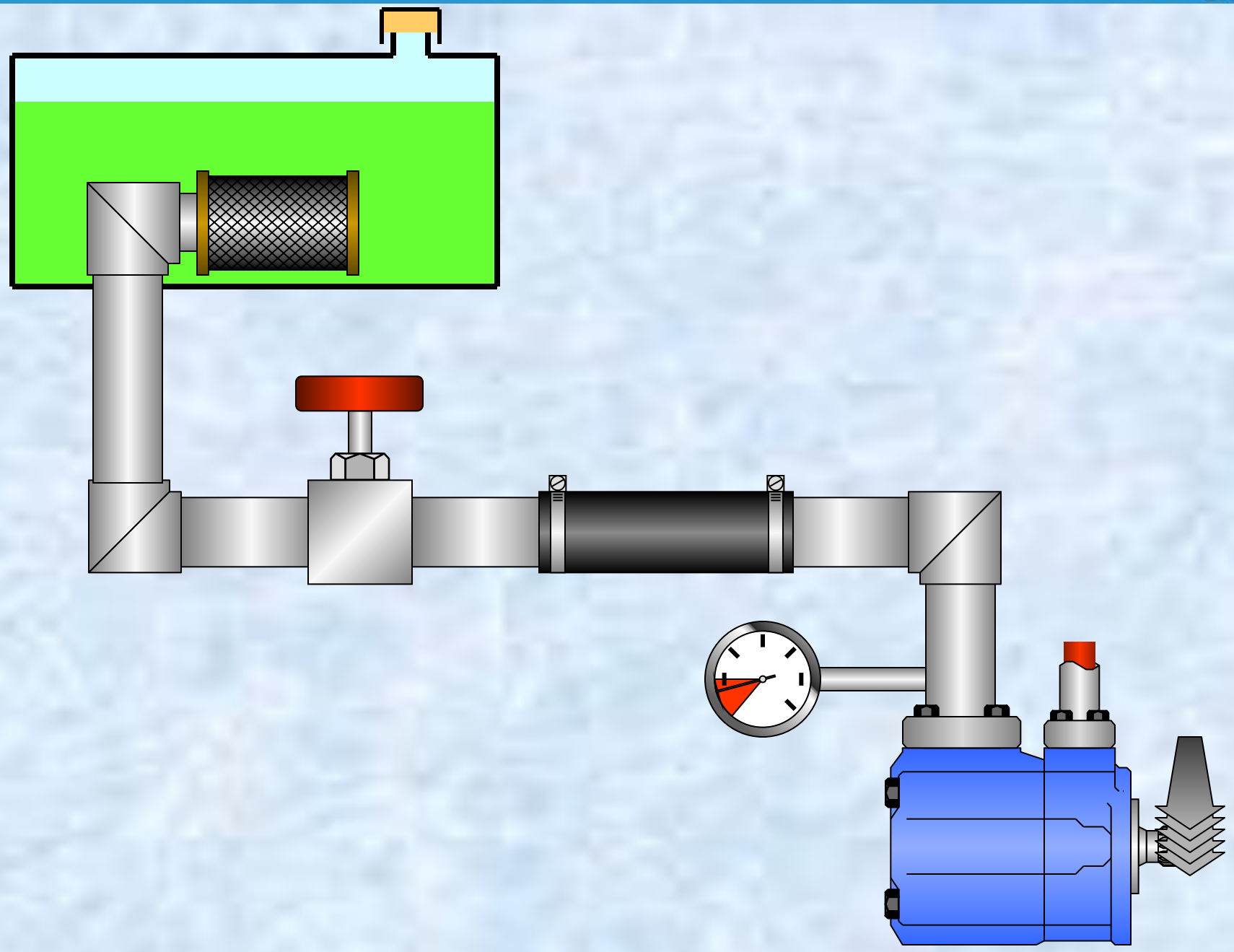


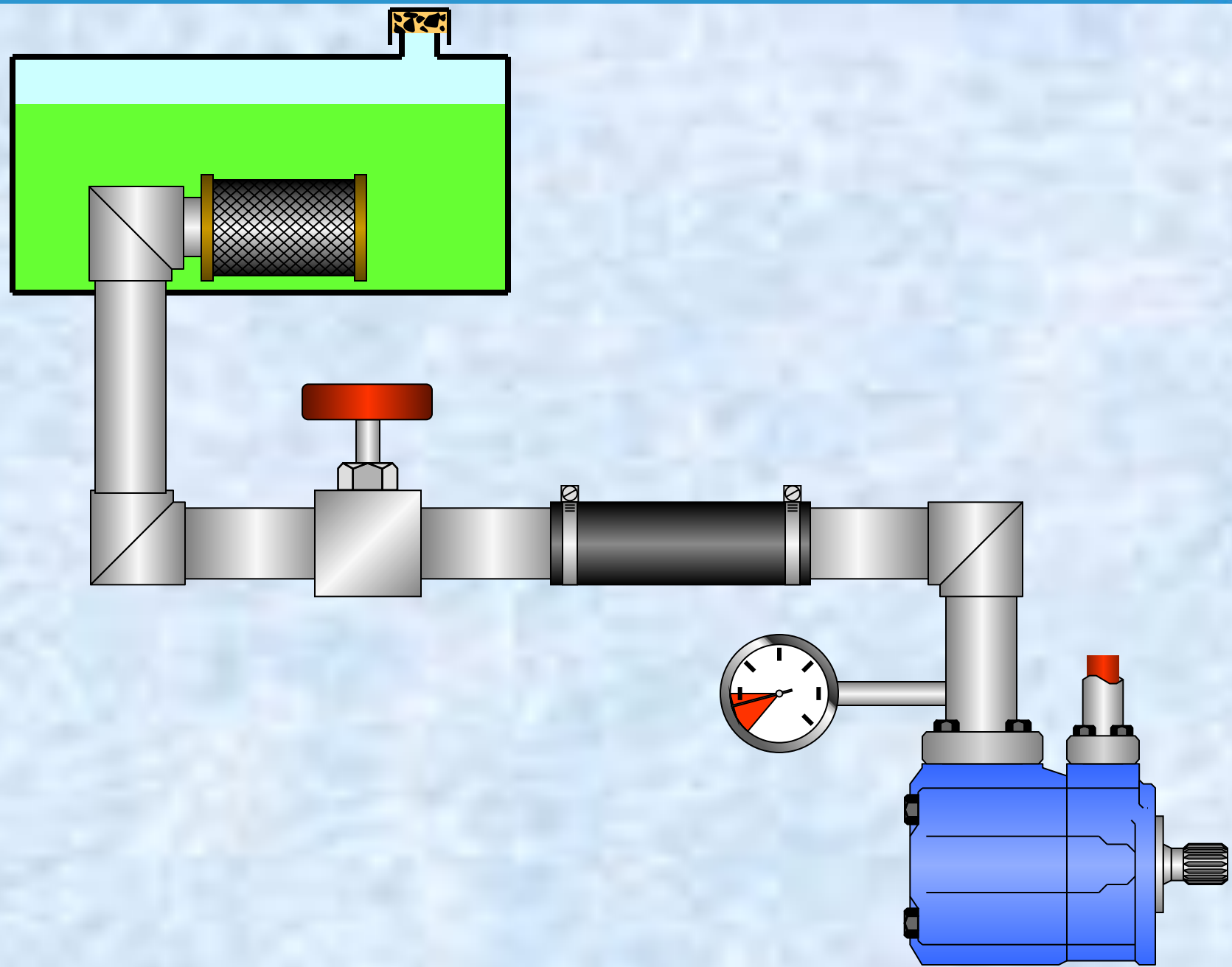


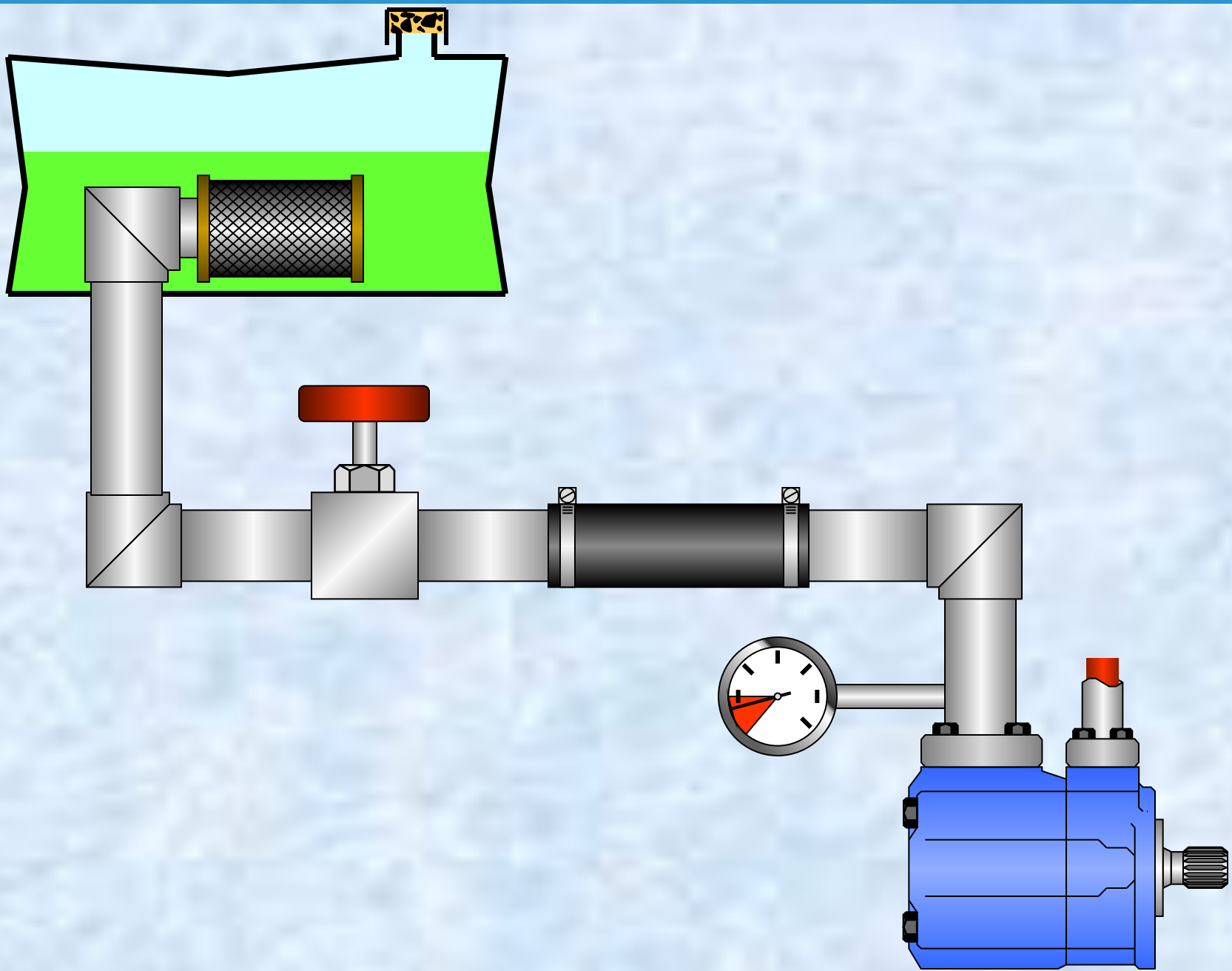
Возникновение кавитации – повышенная высота всасывания

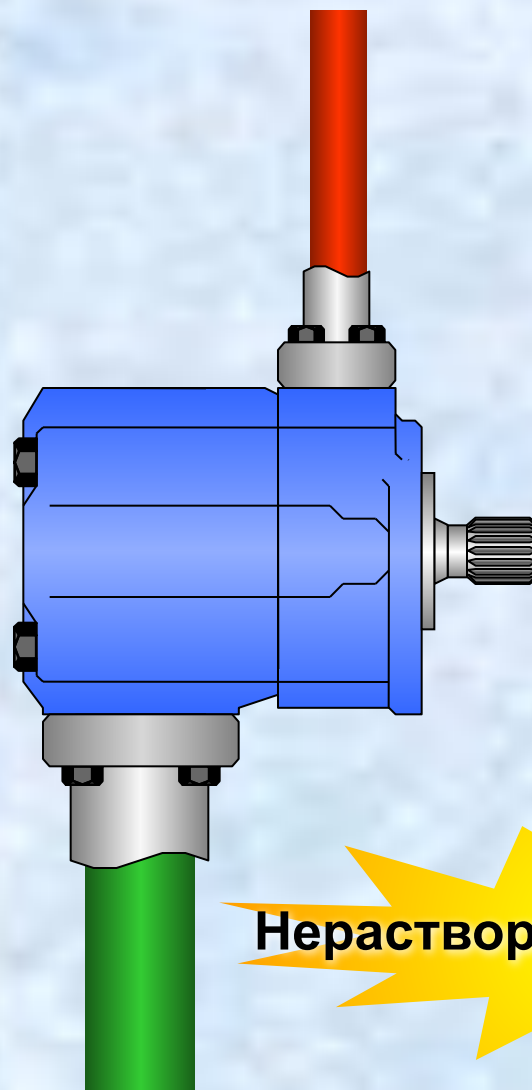


Возникновение кавитации – высокая частота вращения

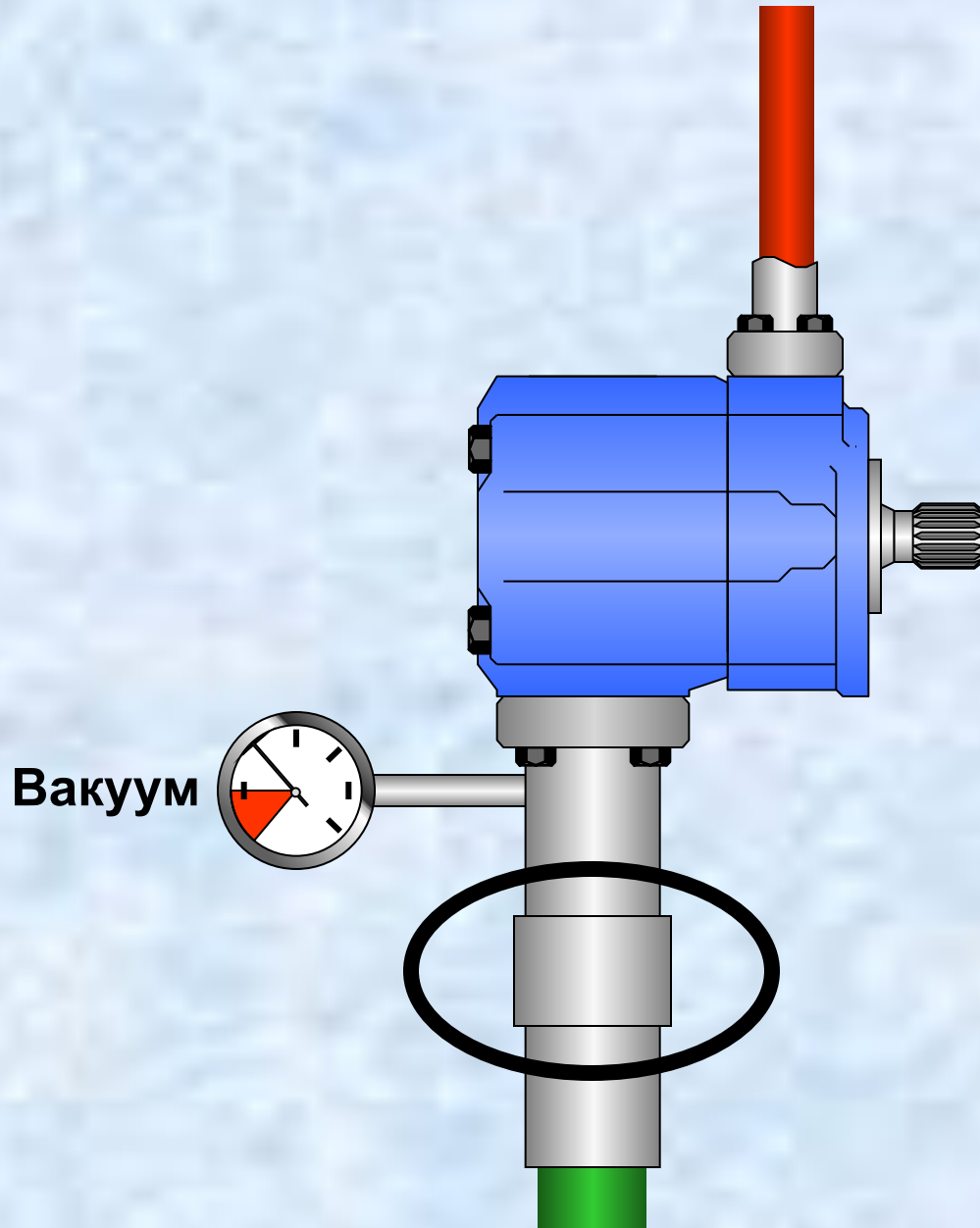


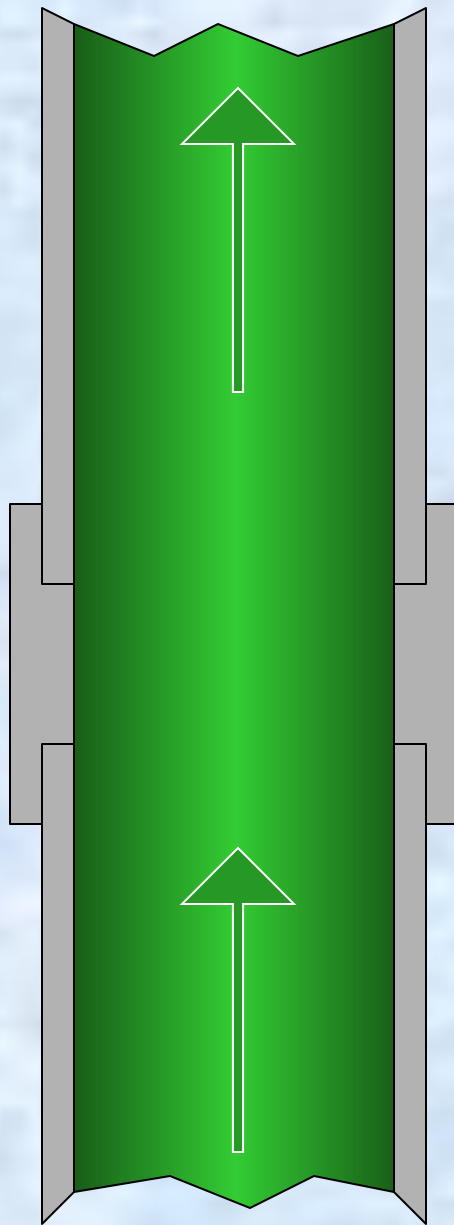




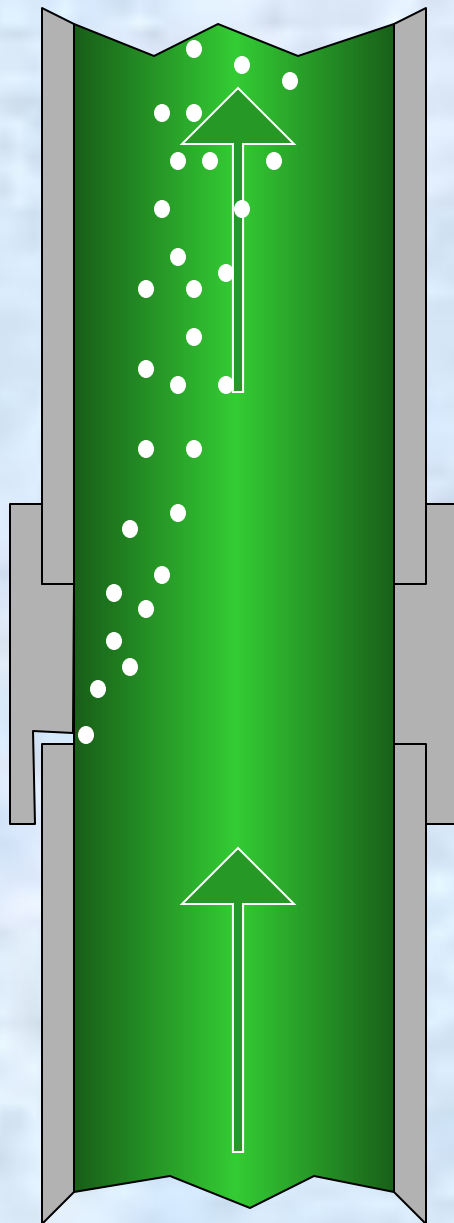


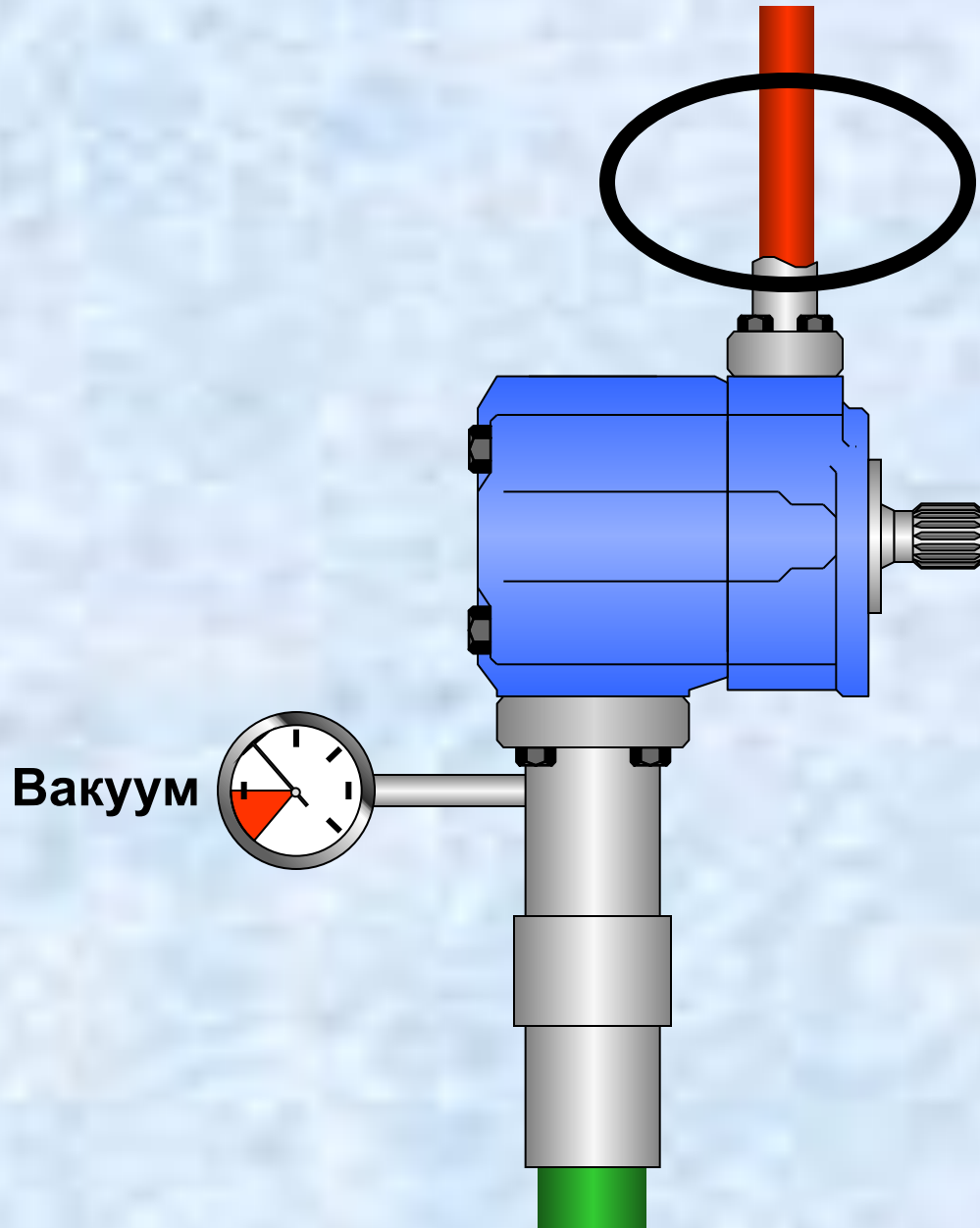
Нерастворенный воздух

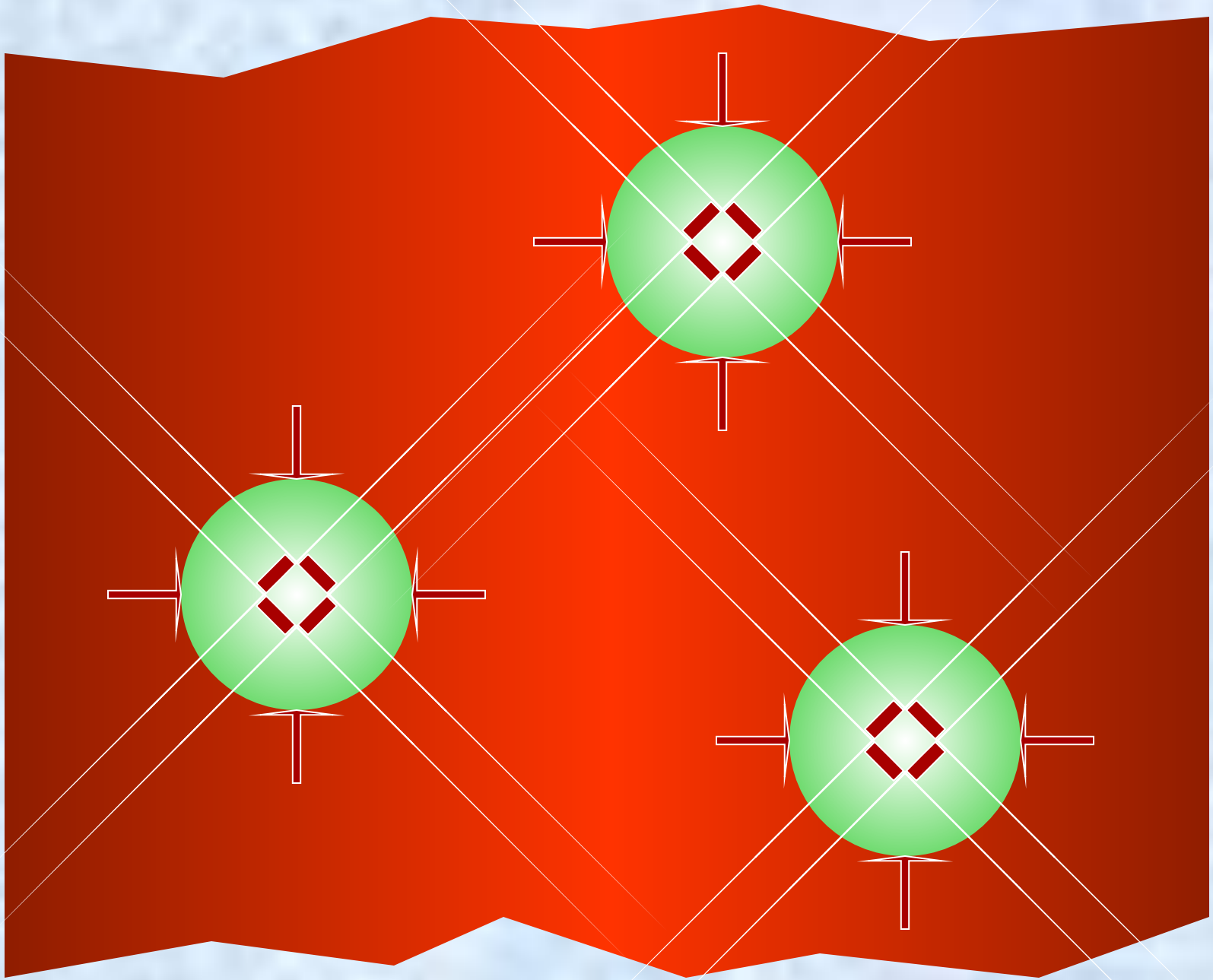


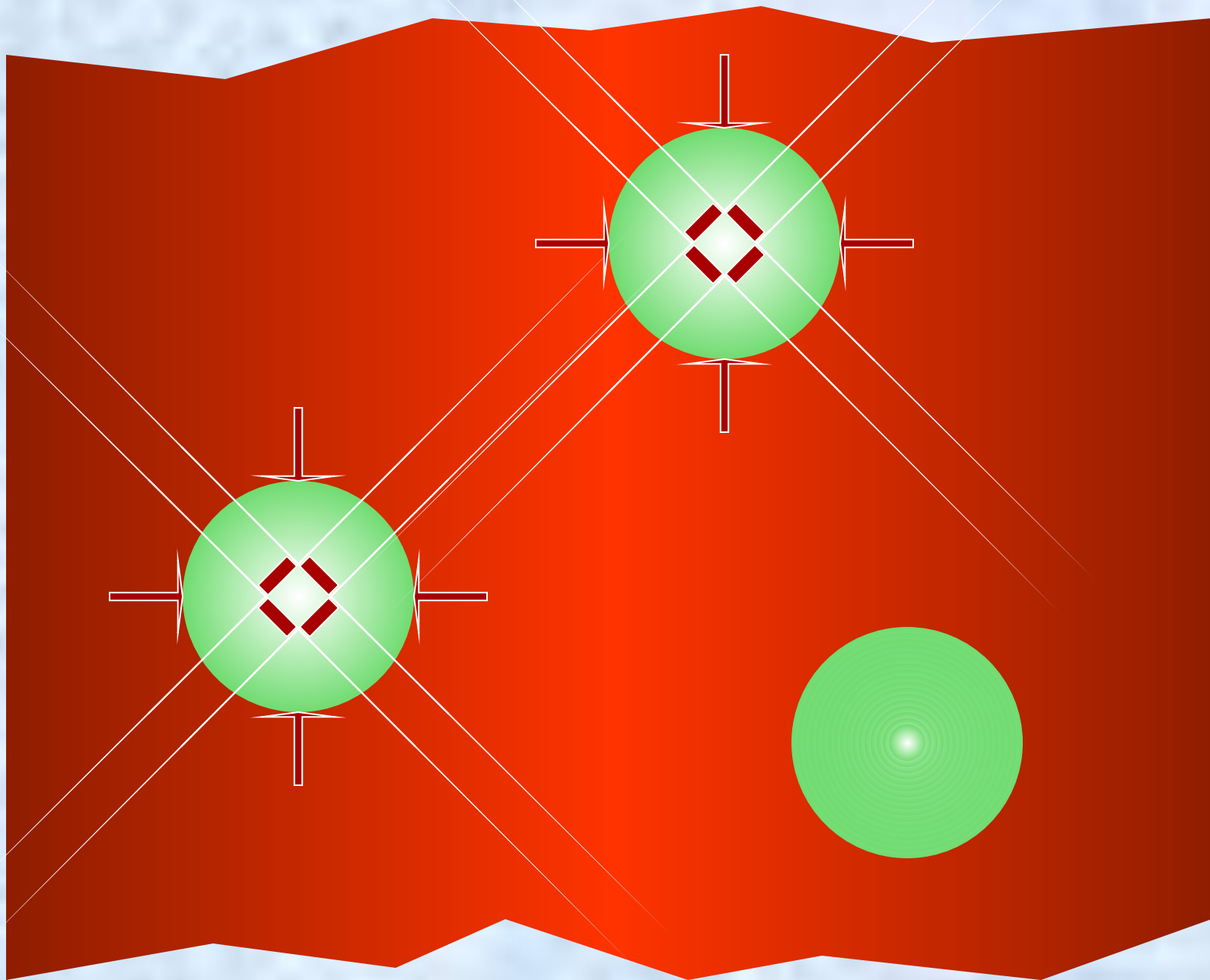


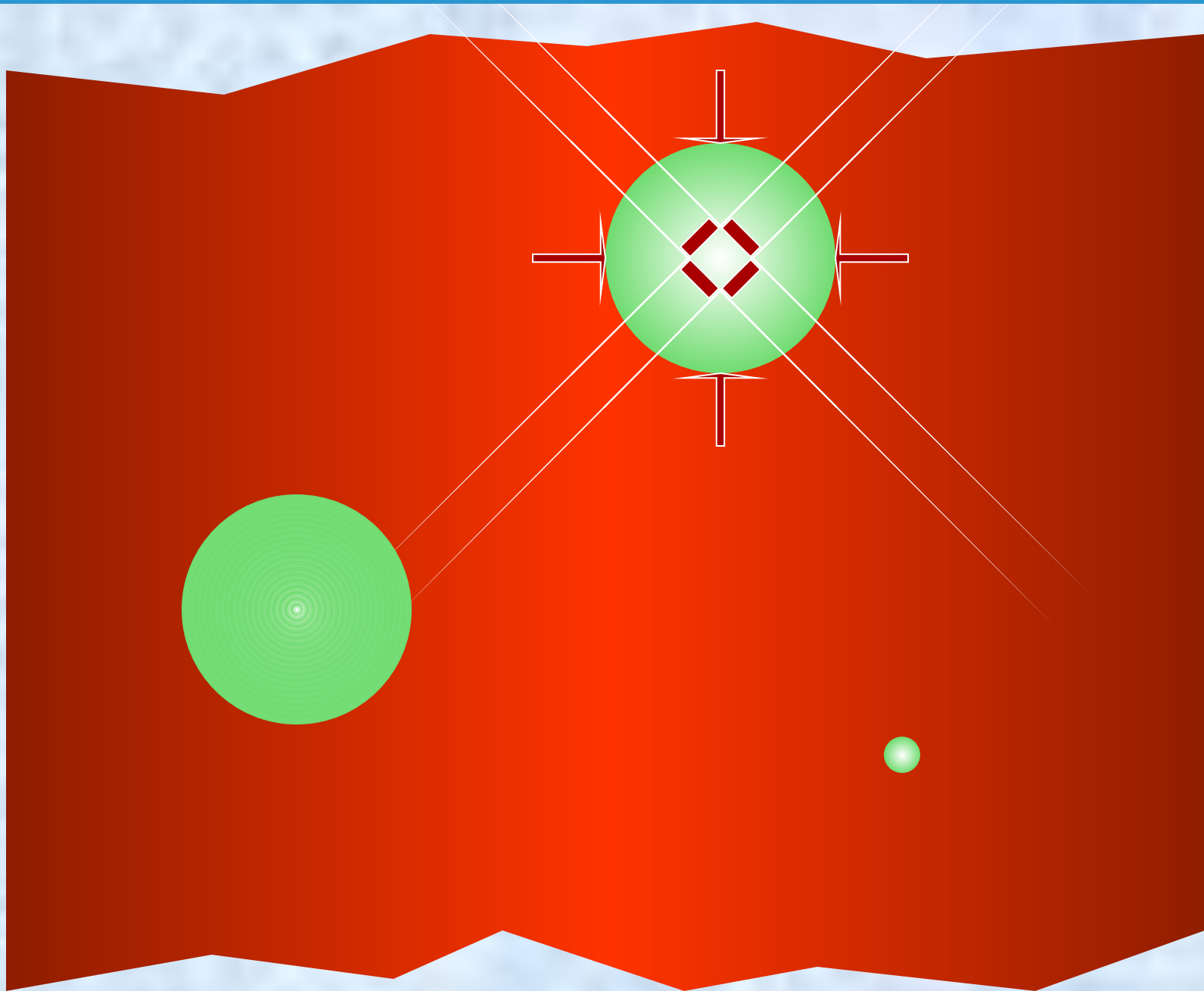


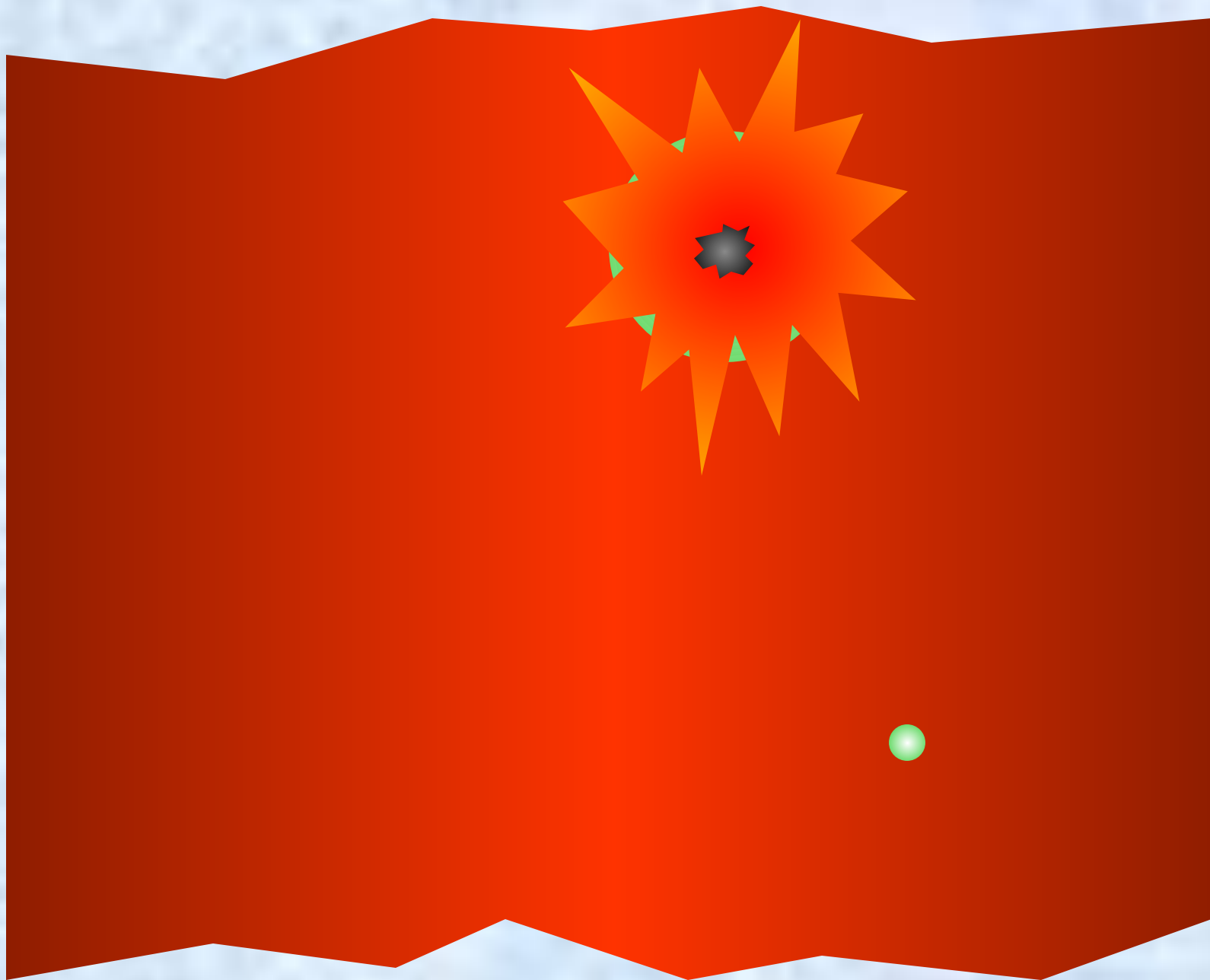




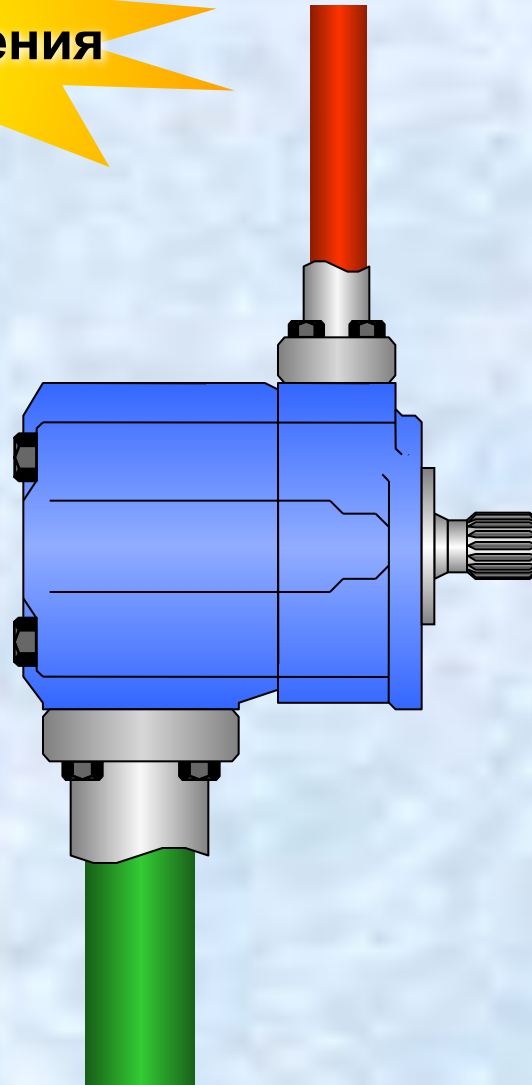


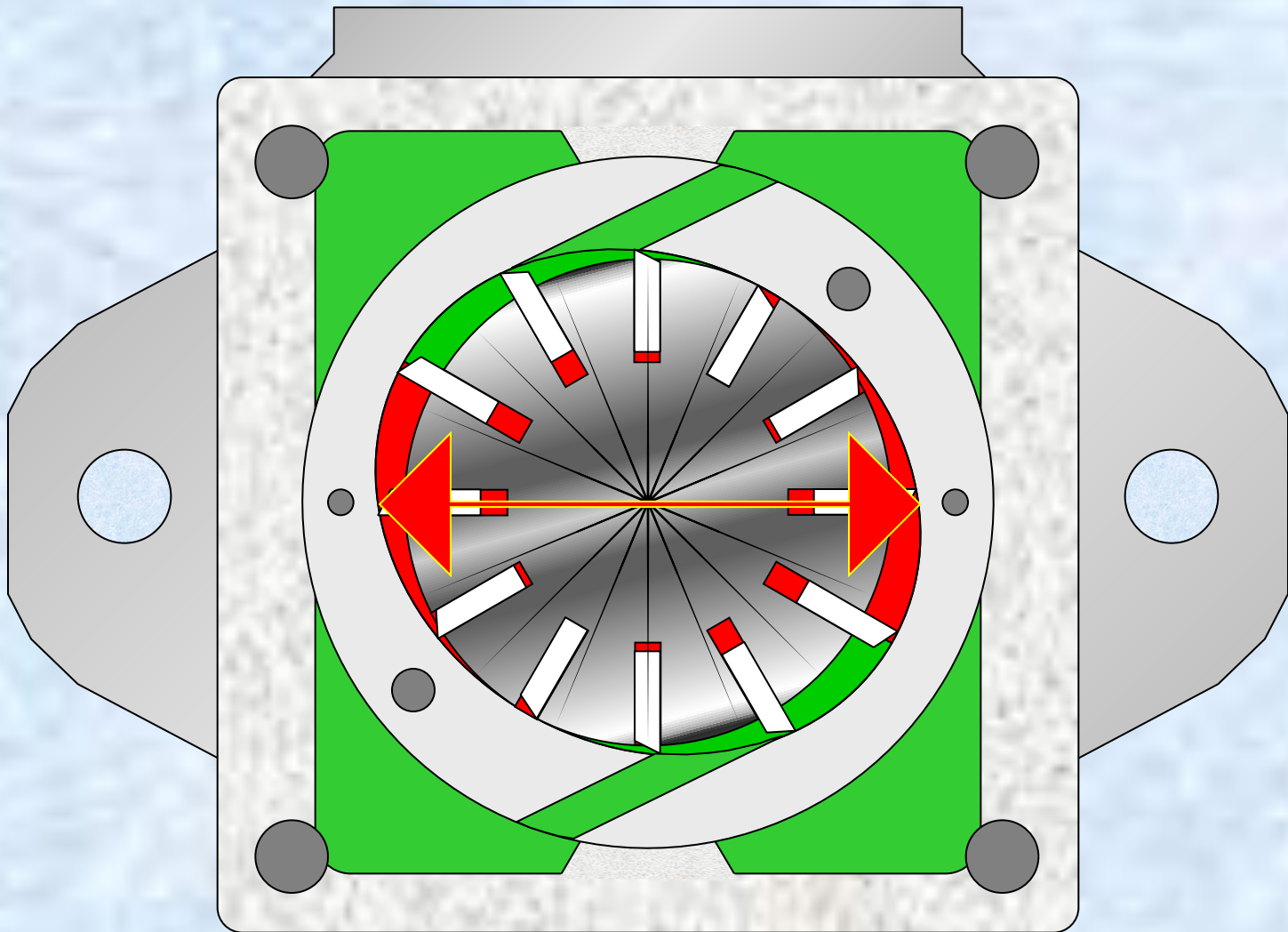


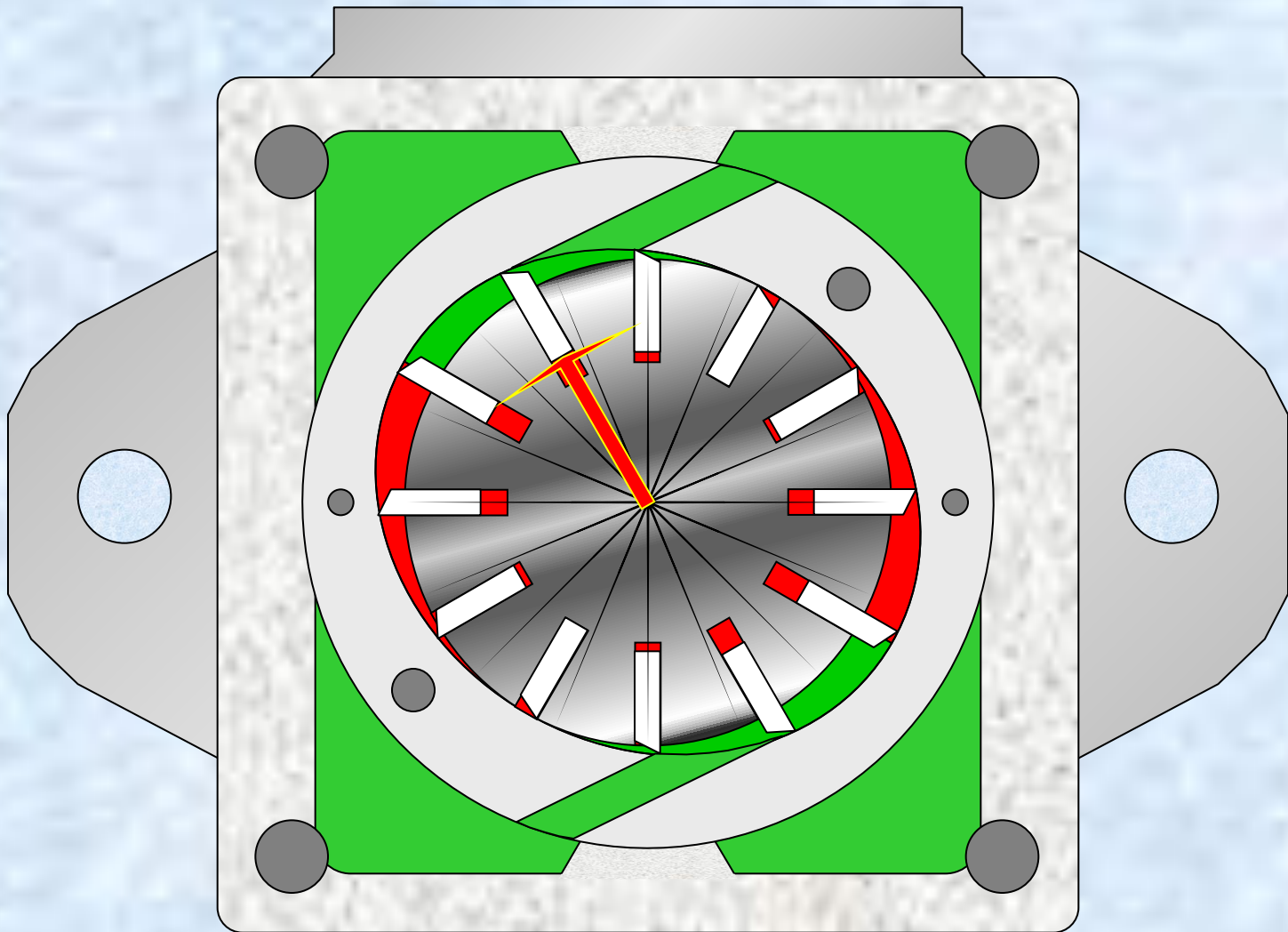




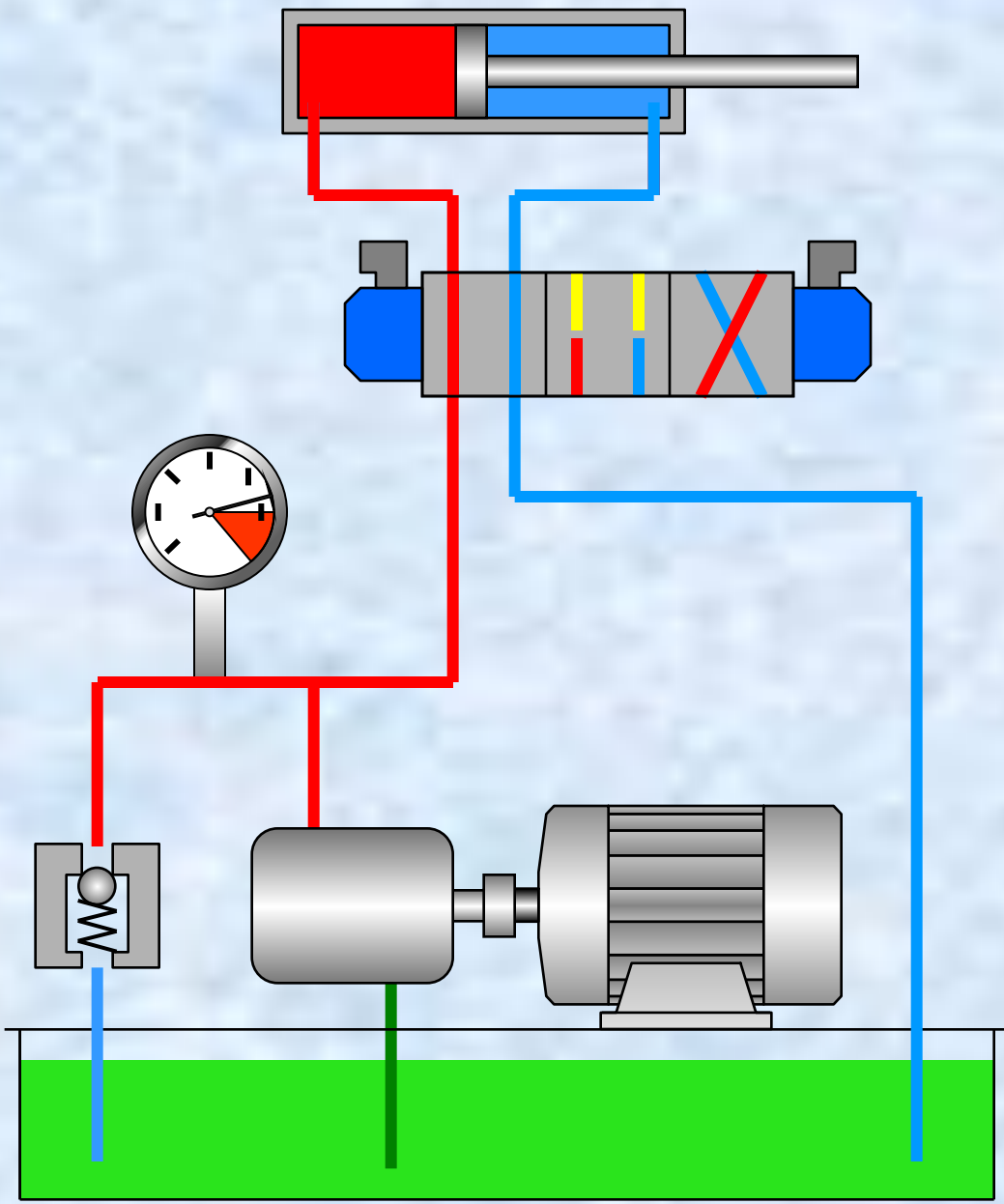
Пульсации давления



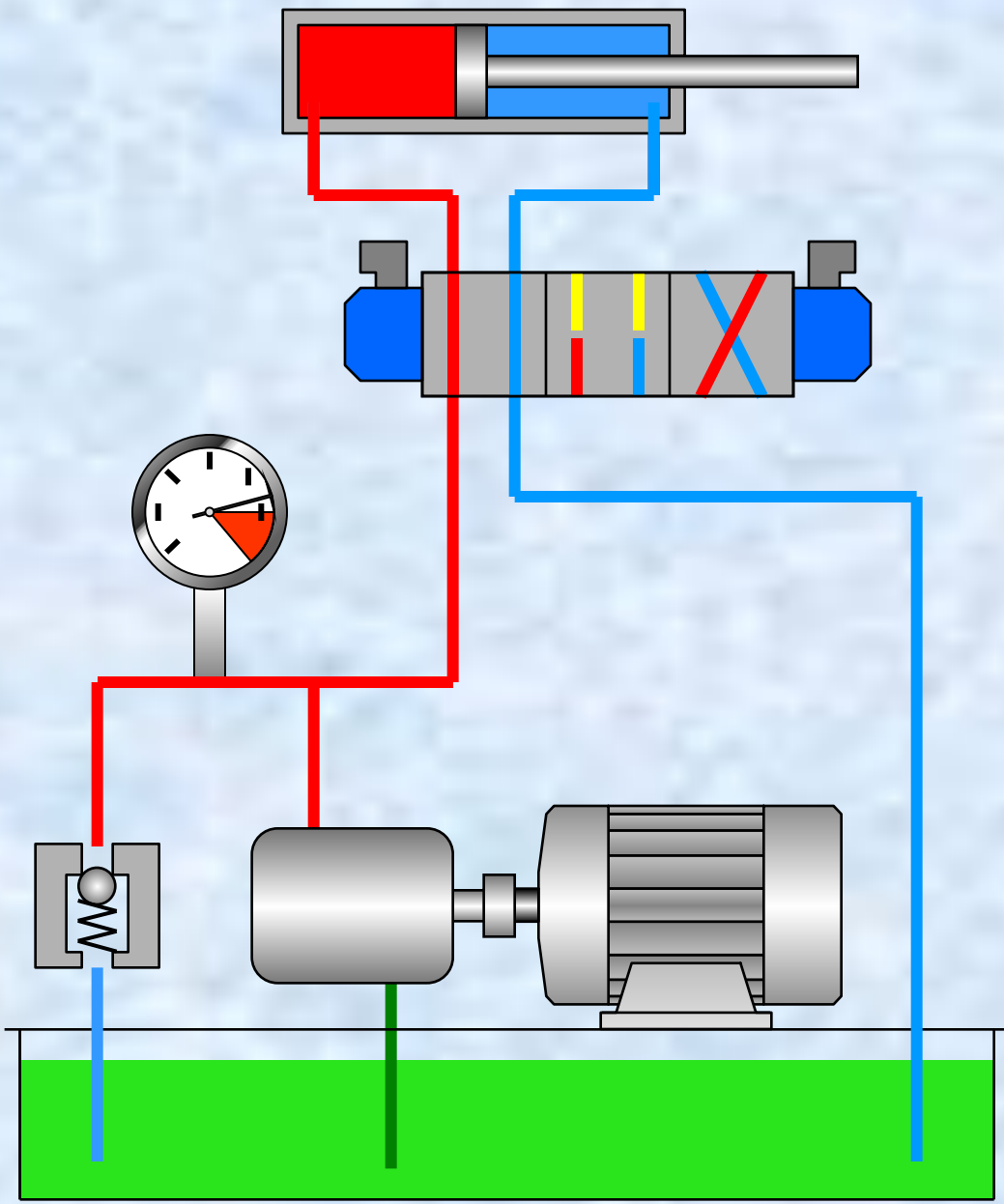




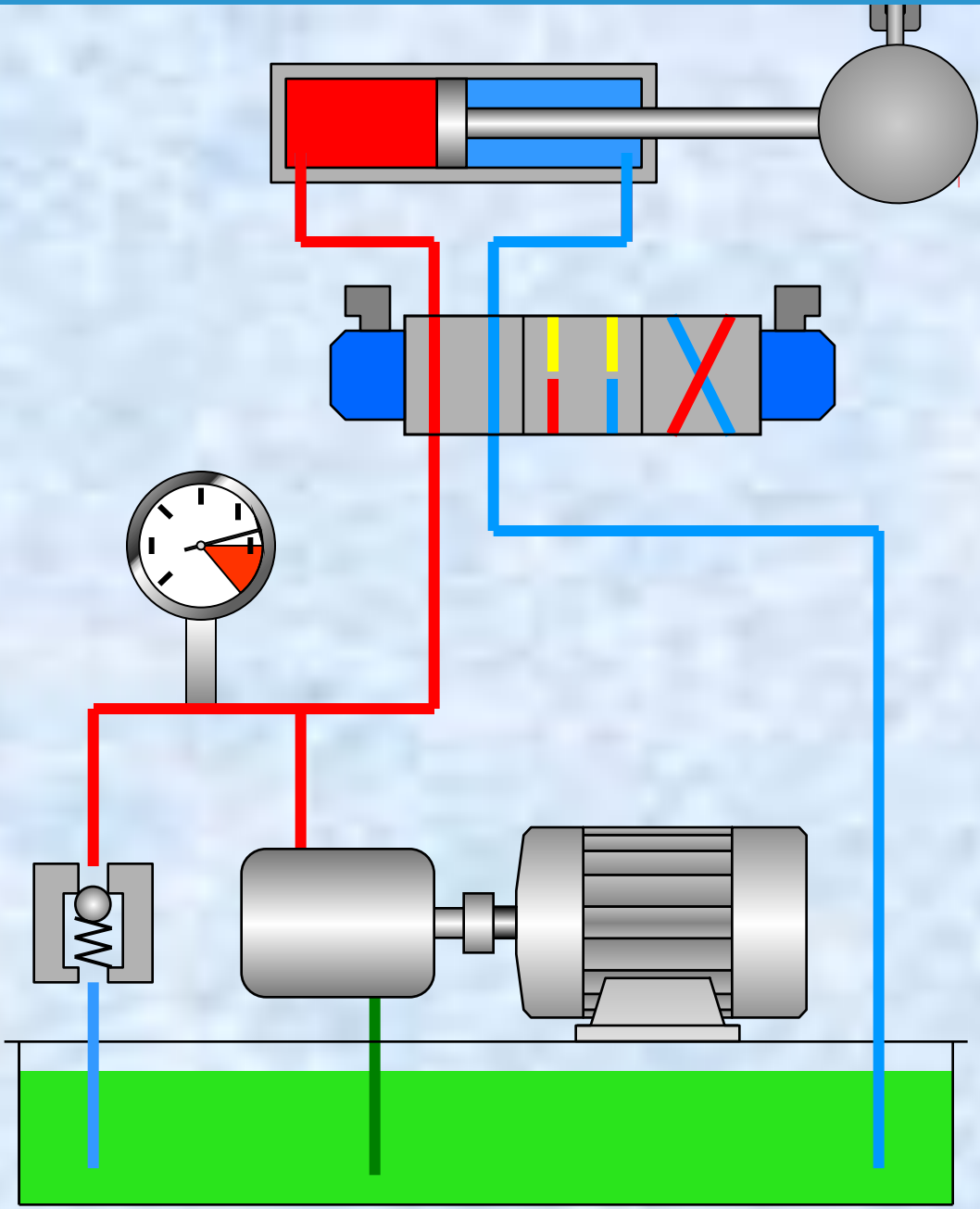
Возникновение перепадов давления от ударных нагрузок



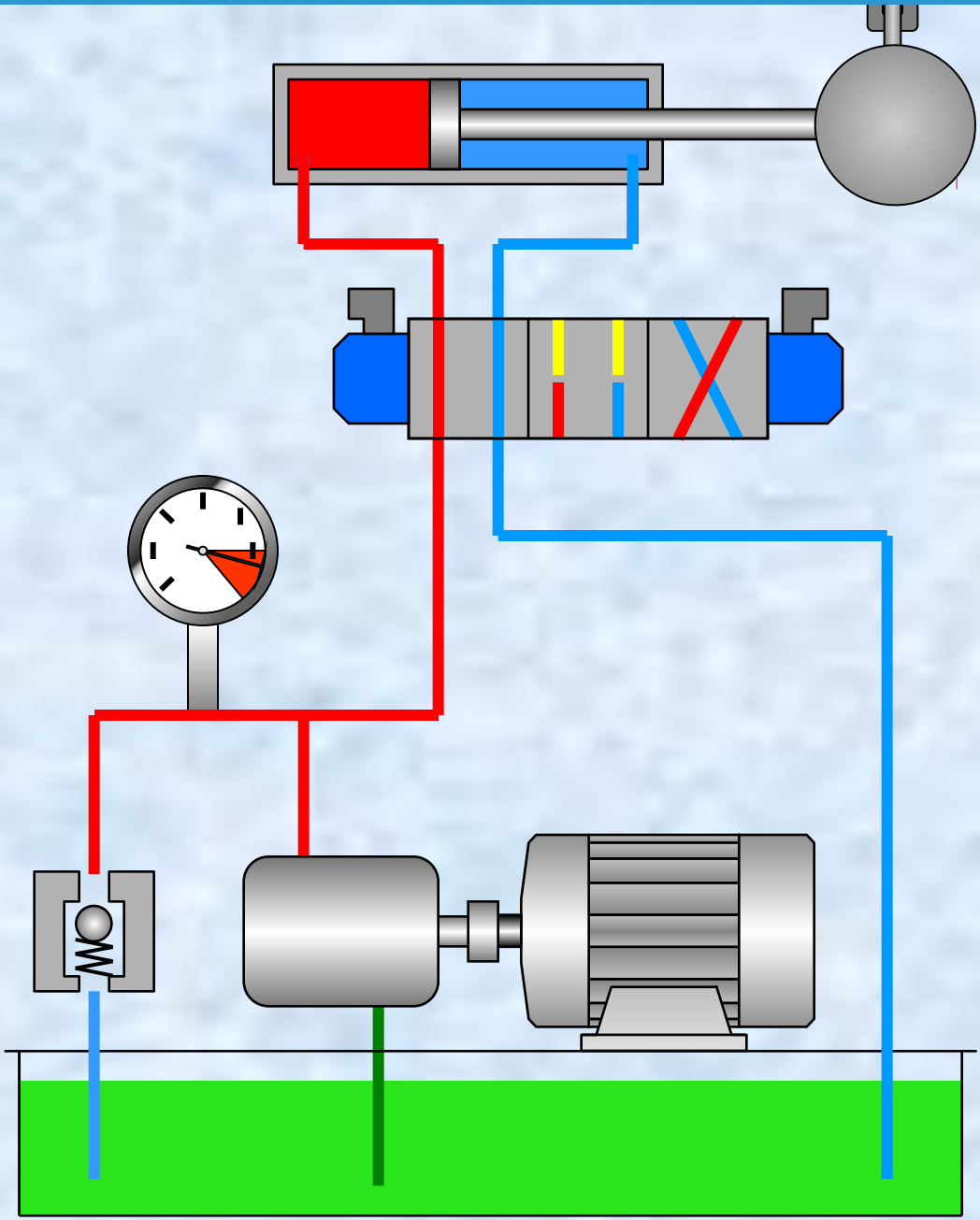
Возникновение перепадов давления от ударных нагрузок



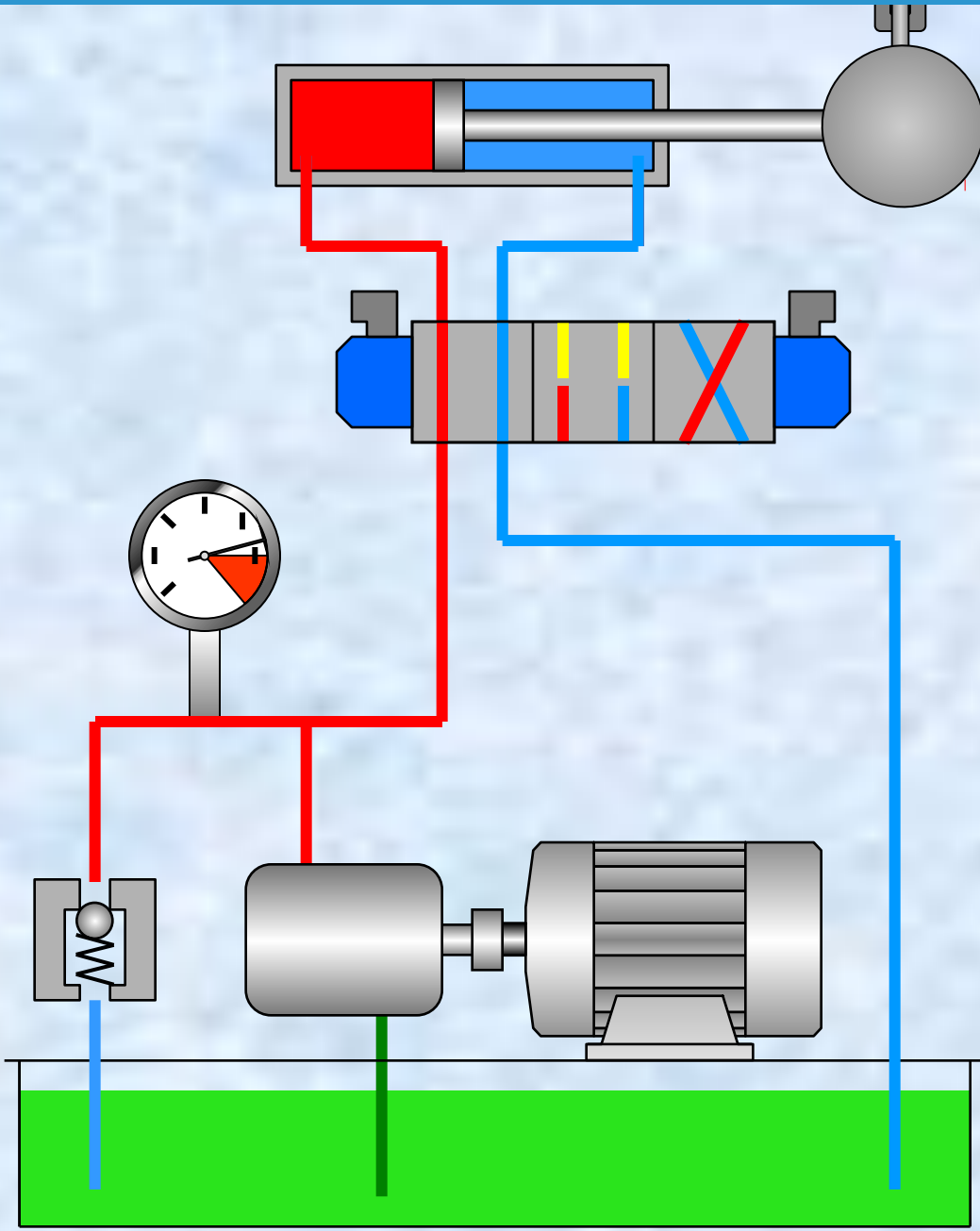
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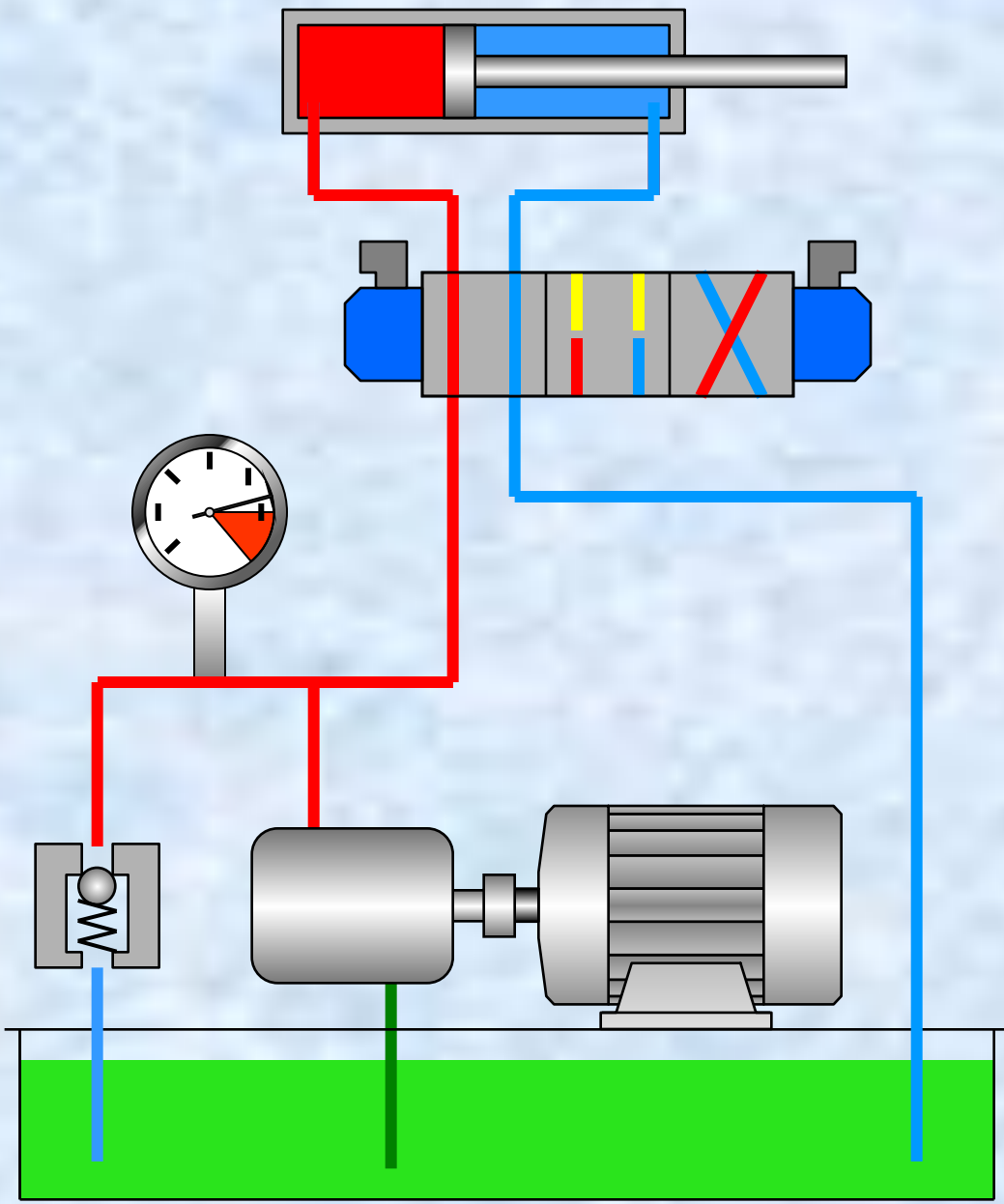


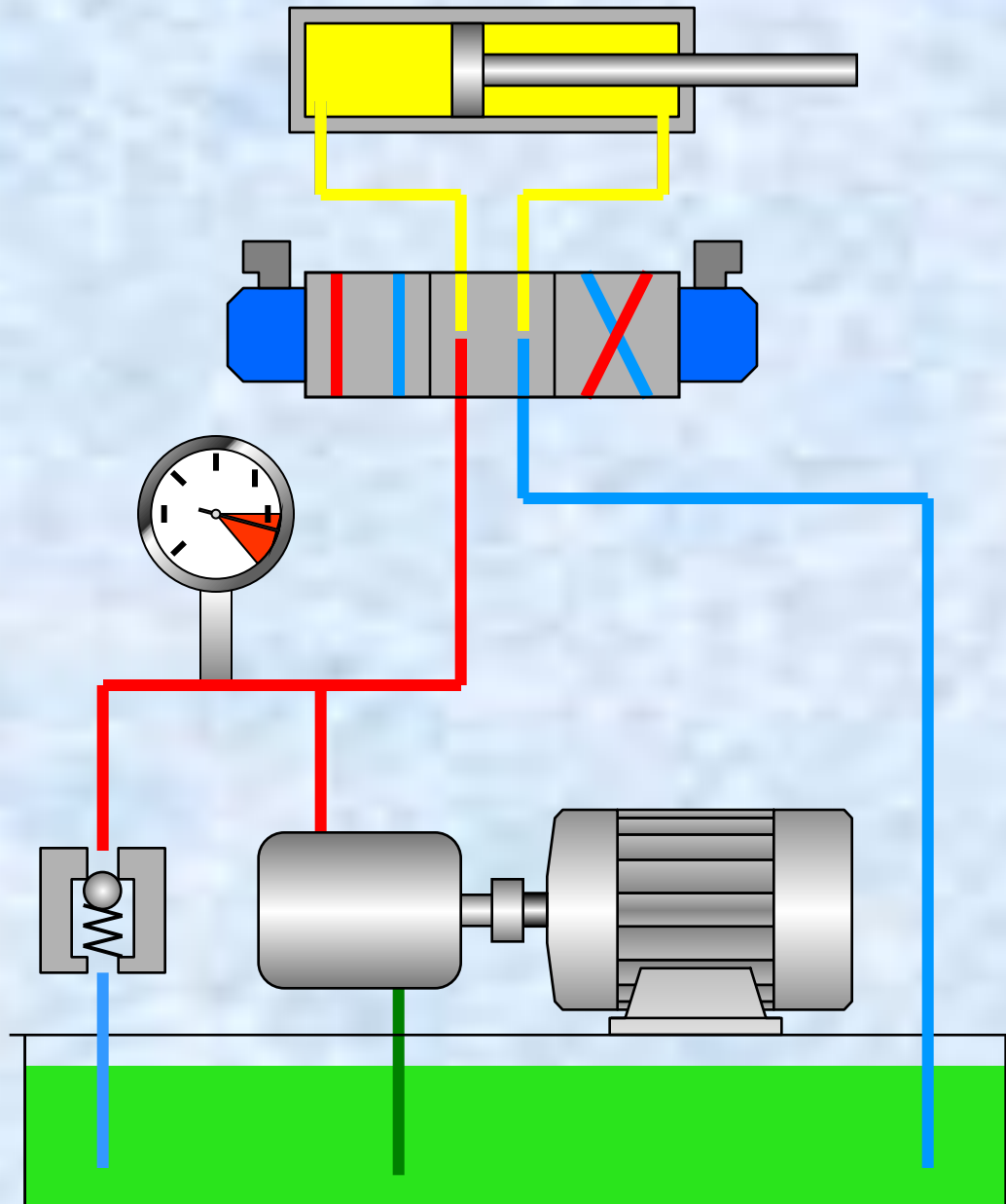
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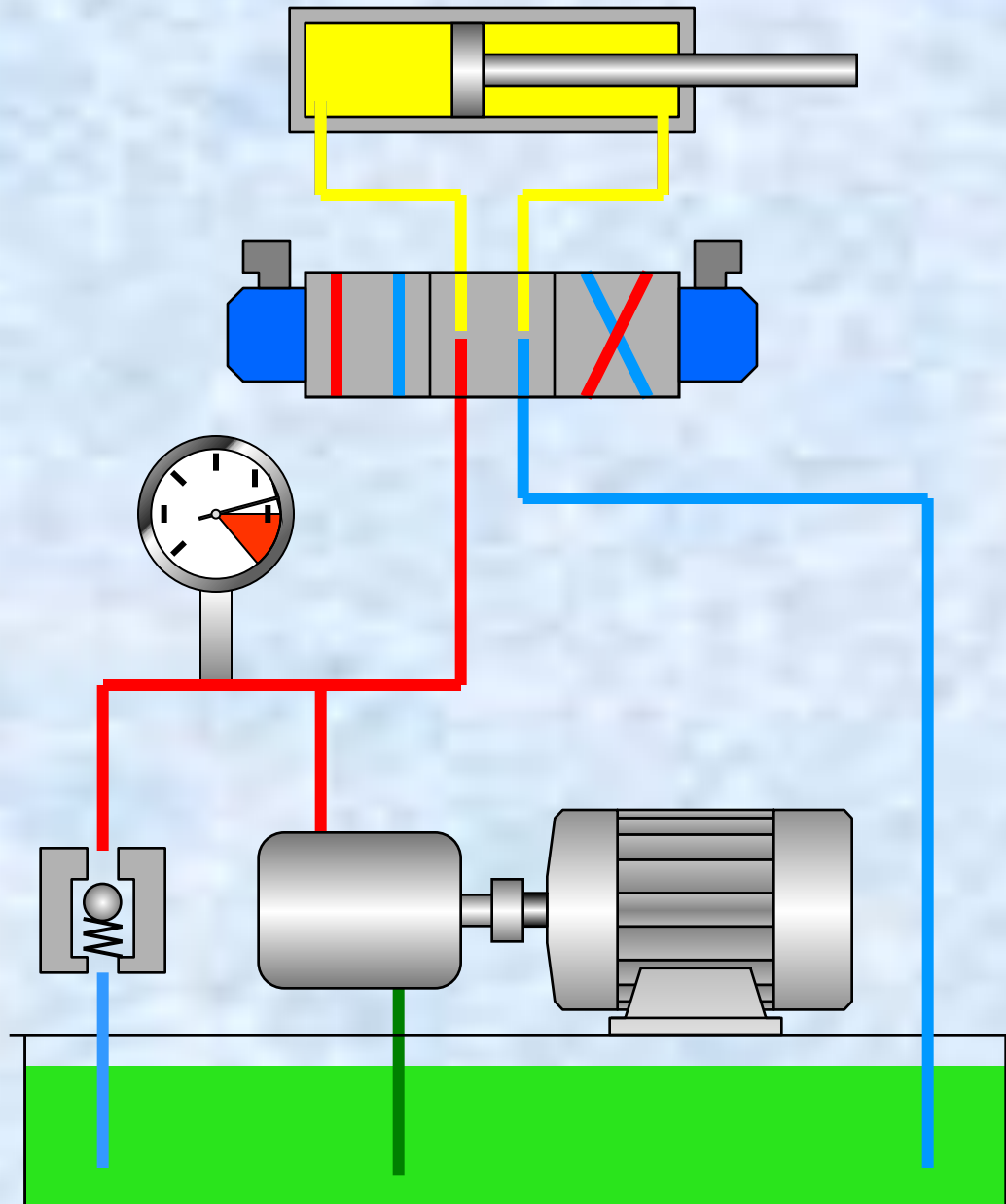
Возникновение перепадов давления от ударных нагрузок







Ventilansprechzeiten





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