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1 Introduction

2 Anchors

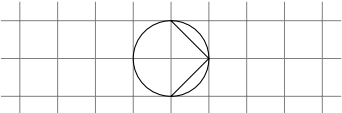
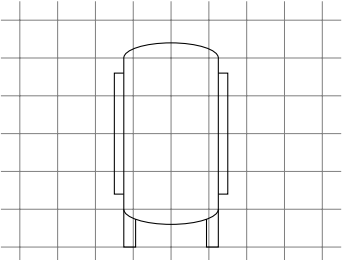
The anchors are possibly the most important part of these figures since they allow you to connect these figures to the rest of your drawing. Therefore, we have tried to make the anchors as consistent as possible in terms of naming. The most common abbreviations for anchors that you will find in Section 4 are the following:

Abbreviation	Anchor name	Abbreviation	Anchor name
N	north	S	south
nN	near north	nS	near south
fN	far north	fS	far south
E	east	W	west
nE	near east	nW	near west
fE	far east	fW	far west
NE	northeast	SE	southeast
nNE	near northeast	nSE	near southeast
fNE	far northeast	fSE	far southeast
NW	northwest	SW	southwest
nNW	near northwest	nSW	near southwest
fNW	far northwest	fSW	far southwest

Most assets will only use (a selection of) these anchors. **Not every anchor is defined for every asset. Please check the section of the asset to see which are defined for that asset.** If it uses more than these, they are specified in the section of that asset, e.g. Tanks.

3 Accessing options

Accessing options is facilitated through pgfkeys, which makes them snappy. The keys though which to access them are the names of the assets, with the exception of the dished tank which uses the tank options. An example makes this much more clear. **Note that these commands exists within a tikzpicture environment.**

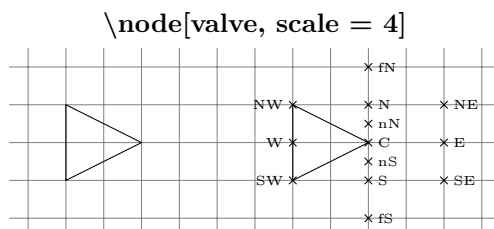
	<code>\node[pump, /pump = reciprocating]</code>
	<code>\node[dished tank, /tank, legs, /tank = jacket]</code>

4 Assets











4.1 Valves

4.1.1 Anchors

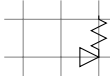
A valve is one of the cornerstones of a flowsheet or P&ID. The base asset for a valve in this package is only half of a two-way valve to allow for maximal flexibility.



4.1.2 Options

basic	angle	three way	globe	ball
				
gate	butterfly	needle	continuous	check
				

spring loaded



safety

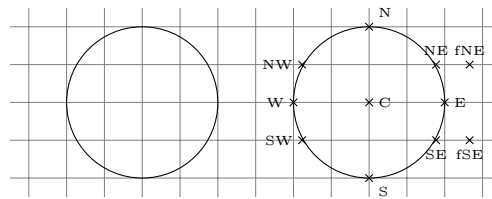


breather



4.2 Round heat exchanger

4.2.1 Anchors

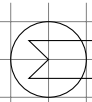
 \backslash node[HE round, scale = 2]


4.2.2 Options

general

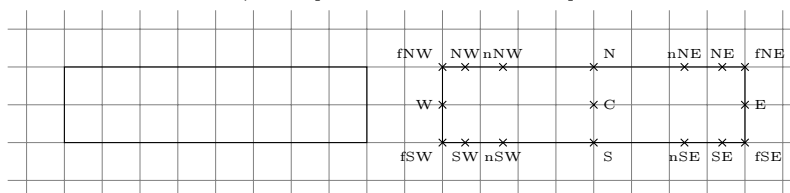


m



4.3 Rectangular heat exchanger

4.3.1 Anchors

 \backslash node[HE rect, scale = 2]


4.3.2 Options

straight



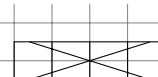
floating

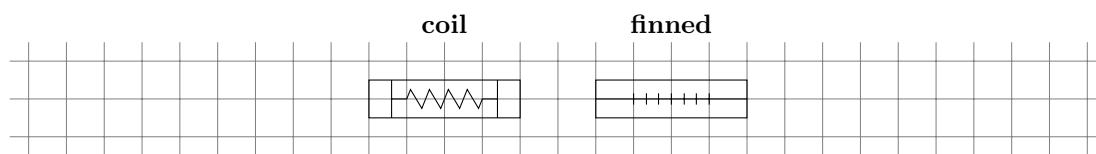


u



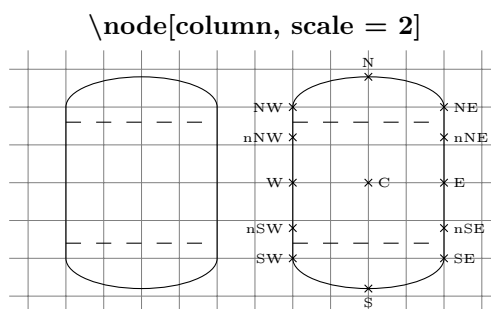
plate



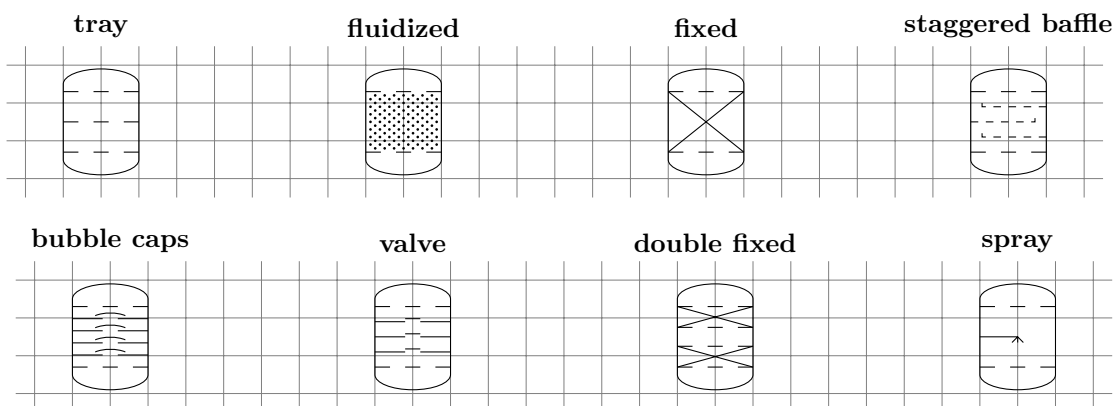


4.4 Columns

4.4.1 Anchors



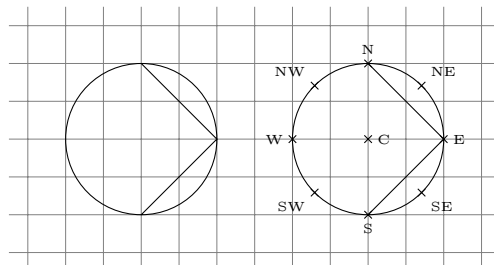
4.4.2 Options



4.5 Pumps

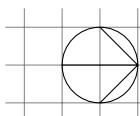
4.5.1 Anchors

`\node[pump, scale = 2]`

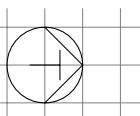


4.5.2 Options

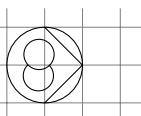
centrifugal



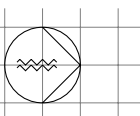
reciprocating



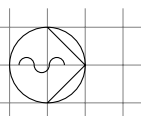
gear



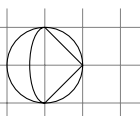
screw



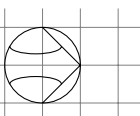
cavity



diaphragm



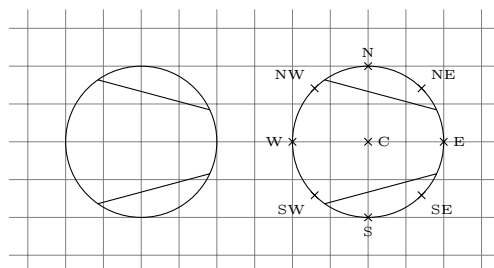
jet



4.6 Compressors

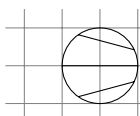
4.6.1 Anchors

`\node[compressor, scale = 2]`

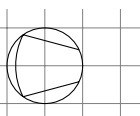


4.6.2 Options

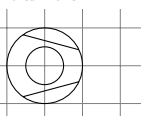
centrifugal



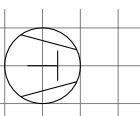
diaphragm



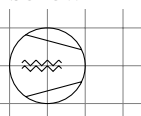
turbo

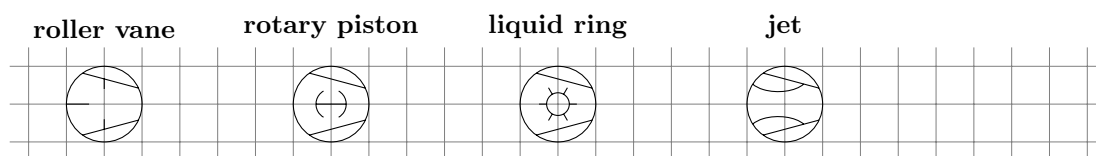


reciprocating



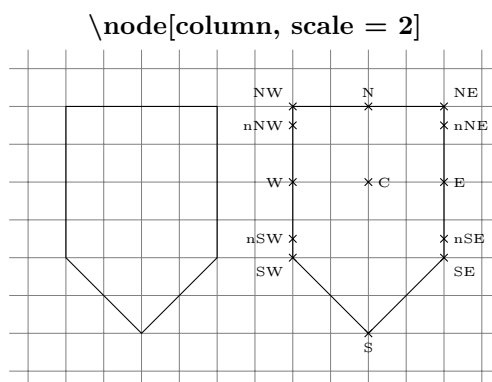
screw



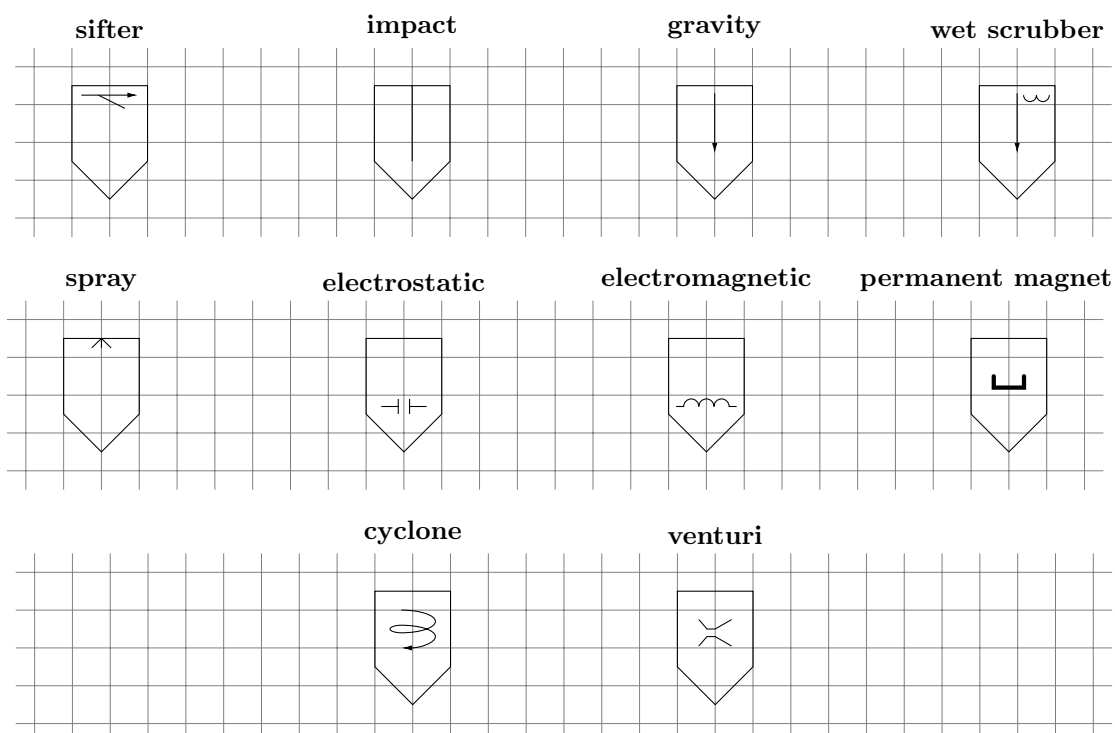


4.7 Separators

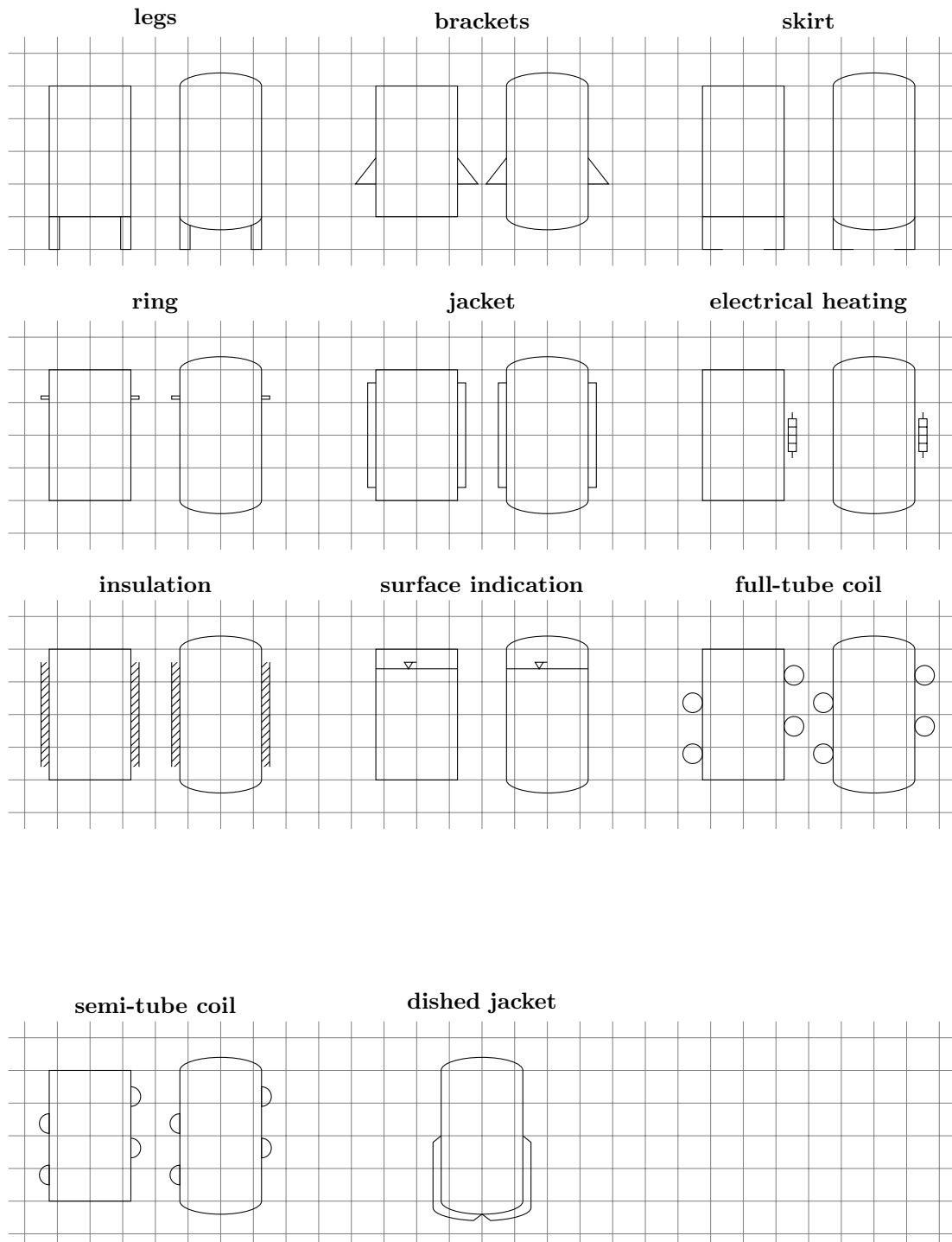
4.7.1 Anchors



4.7.2 Options

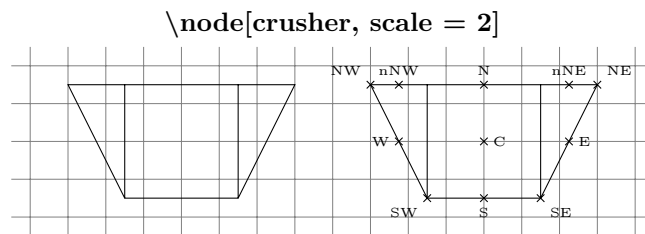


4.8.2 Options

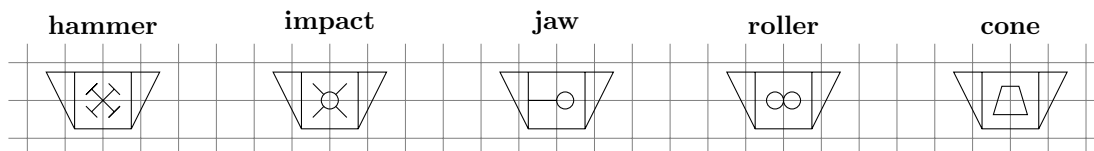


4.9 Crushers

4.9.1 Anchors

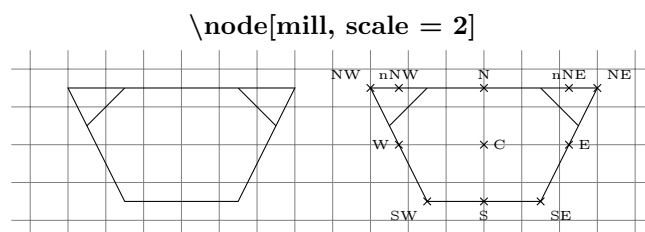


4.9.2 Options

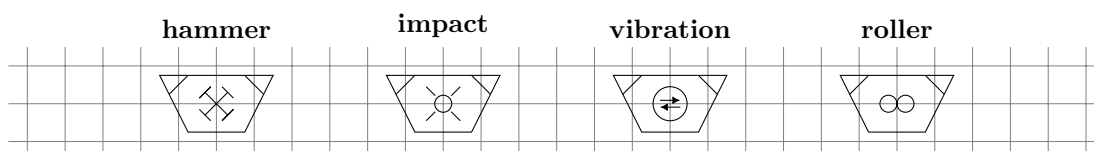


4.10 Mills

4.10.1 Anchors

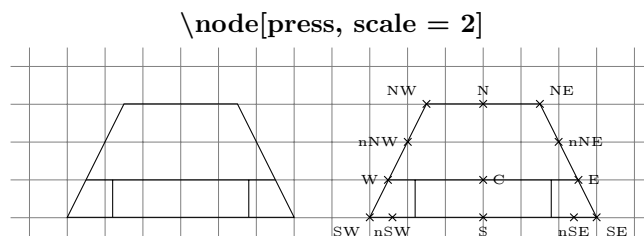


4.10.2 Options

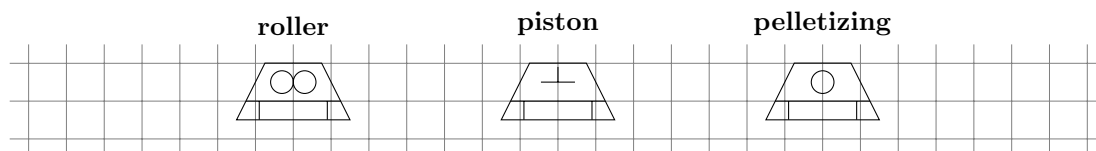


4.11 Press

4.11.1 Anchors

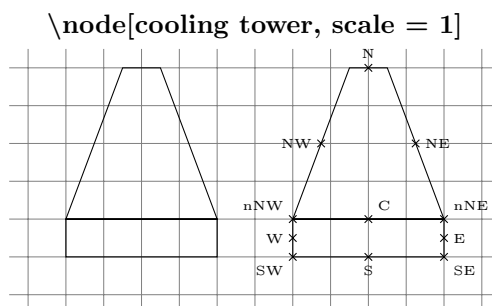


4.11.2 Options

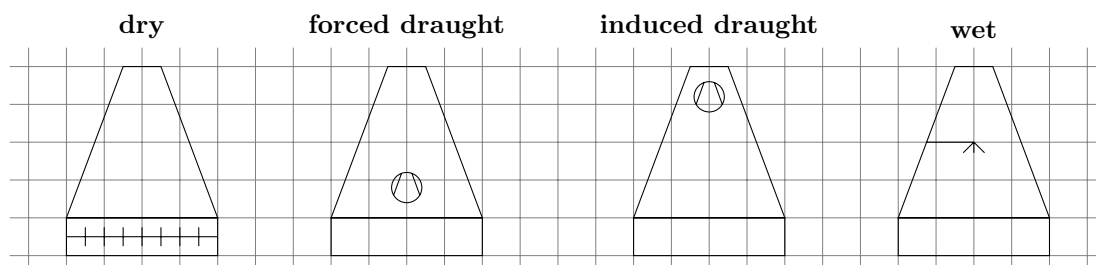


4.12 Cooling towers

4.12.1 Anchors

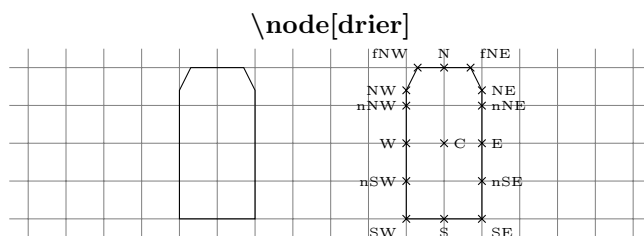


4.12.2 Options

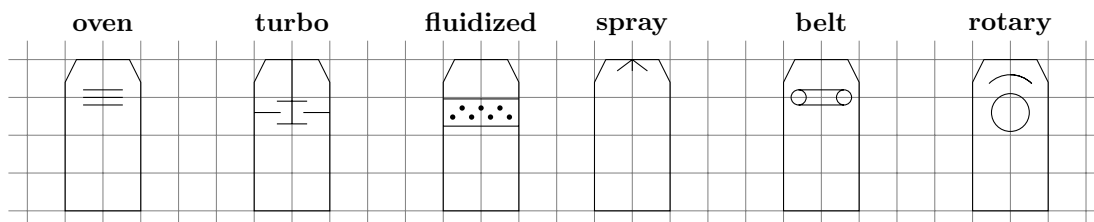


4.13 Driers

4.13.1 Anchors

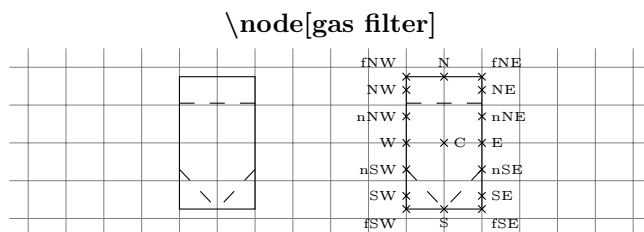


4.13.2 Options

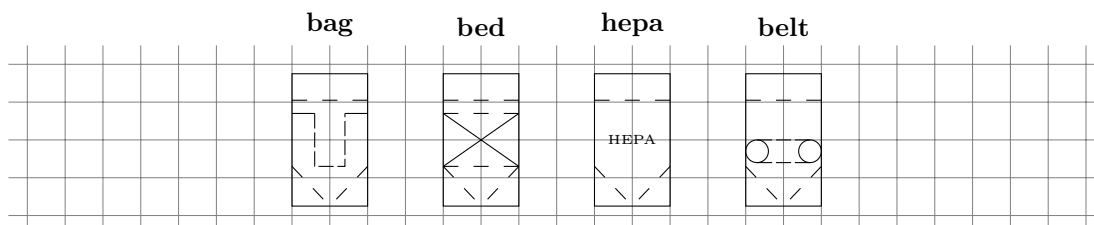


4.14 Gas filters

4.14.1 Anchors

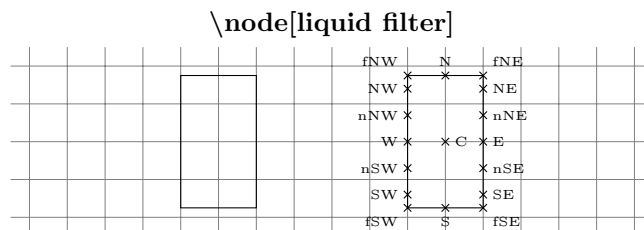


4.14.2 Options

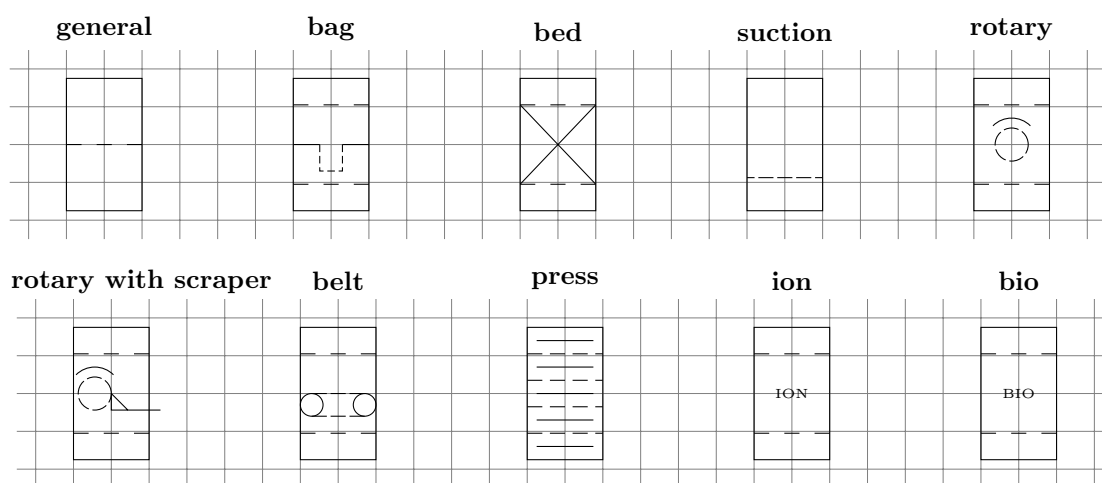


4.15 Liquid filters

4.15.1 Anchors



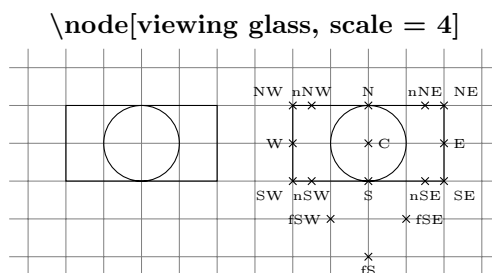
4.15.2 Options



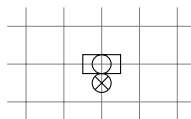
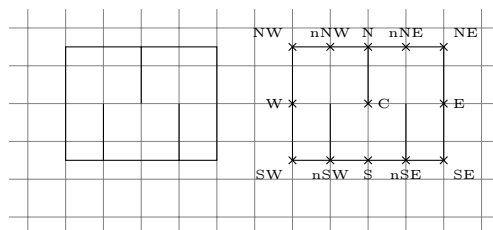
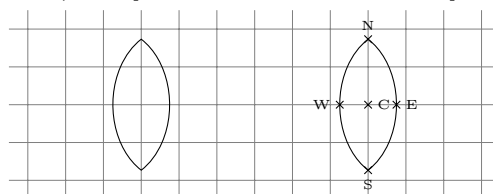
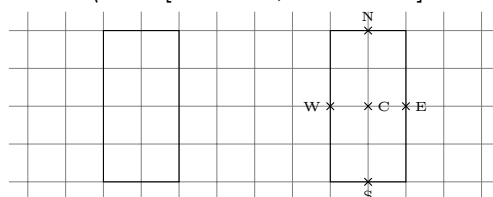
4.16 Fittings

4.16.1 Viewing glass

4.16.1.1 Base

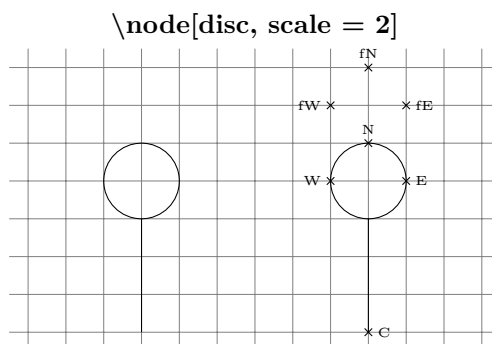


4.16.1.2 Options

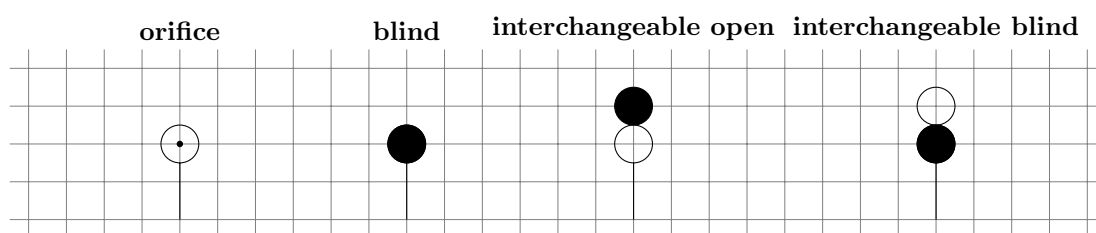
lighting**4.16.2 Silencer****\node[silencer, scale = 4]****4.16.3 Compensator****\node[compensator, scale = 4]****4.16.4 Strainer****4.16.4.1 Base****\node[strainer, scale = 4]****4.16.4.2 Options****general****cone**

4.16.5 Disc

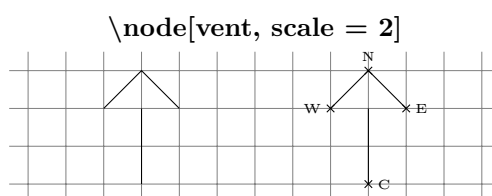
4.16.5.1 Base



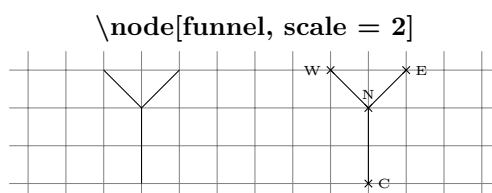
4.16.5.2 Options

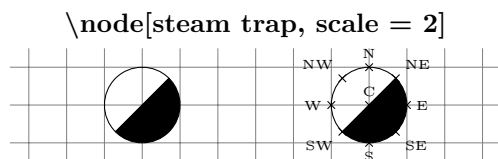
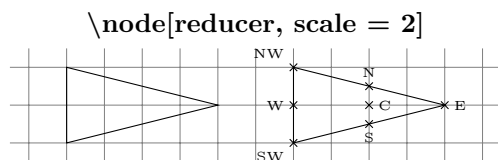
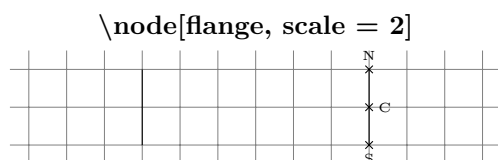
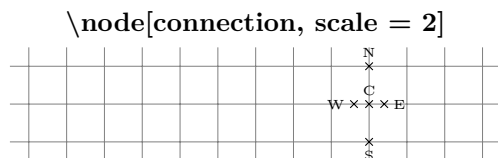
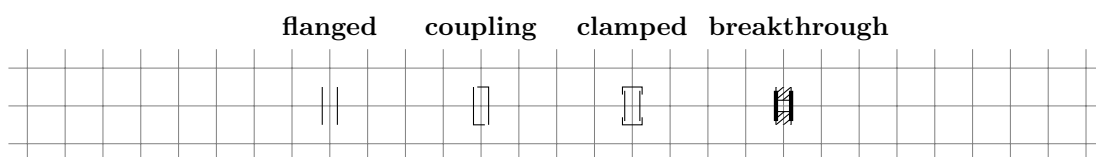


4.16.6 Vent



4.16.7 Funnel



4.16.8 Steam trap**4.16.9 Reducer****4.16.10 Flange****4.16.11 Connection****4.16.11.1 Base****4.16.11.2 Options****4.16.12 Hose**