

Application of mechanical joints–												
Viega application guide are recommendations, and selections must be verified by ships designer, engineering, classification company, etc..												
Viega Metal press only -25 to 110 (140) ^{°C} ; Pn16		A	B	C	D	E	F	G	H	I	J	K
Viega Seapress only -25 to + 110 ^{°C} ; Pn16		Machinery spaces of category A	other machinery spaces	Cargo pump rooms	Ro/Ro cargo holds	Other dry cargo holds	Cargo tanks	Fuel oil tanks	Ballast water tanks	Cofferdams, void spaces, pipe tunnels and ducts	Accommodations service and control spaces	Open decks
Viega Plastic and metal press Raxofix -20 to 70 (80 ^{V1}) ^{°C} ; Pn10 Metal press -25 to 110 (140 ^{V2}) ^{°C} ; Pn16												
N/A												
V1; Heating systems V2; With FKM sealing element												
Note: for media other than drinking water, contact viega to ensure material compatibility												
Flammable fluids (flash point ≤ 60°C)												
1	Cargo oil lines	NA	NA	L1	NA	NA	0	NA	0 ¹⁰	0	NA	L1
2	Crude oil washing lines	NA	NA	L1	NA	NA	0	NA	0 ¹⁰	0	NA	L1
3	Vent lines	NA	NA	NA	NA	NA	0	NA	0 ¹⁰	0	NA	X
Inert gas												
4	Water seal effluent lines	NA	NA	0 ¹	NA	NA	0 ¹	0 ¹	0 ¹	0 ¹	NA	0
5	Scrubber effluent lines	0 ¹	0 ¹	NA	NA	NA	NA	NA	0 ¹	0 ¹	NA	0
6	Main lines	0	0	L1	NA	NA	NA	NA	NA	0	NA	L1
7	Distributions lines	NA	NA	L1	NA	NA		NA	NA	0	NA	L1
Flammable fluids (flash point > 60°C)												
8	Cargo oil lines	X	X	L1	X	X	NA ³	0	0 ¹⁰	0	NA	L1
9	Fuel oil lines	X	X	L1	X	X	NA ³	0	0	0	L1	L1
10	Lubricating oil lines	X	X	L1	X	X	NA	NA	NA	0	L1	L1
11	Hydraulic oil	X	X	L1	X	X	0	0	0	0	L1	L1
Sea water												
12	Bilge lines	L1	L1	L1	X	X	NA	0	0	0	NA	L1
13	Fire main and water spray	L1	L1	L1	X	NA	NA	NA	0	0	X	L1
14	Foam system	L1	L1	L1	NA	NA	NA	NA	NA	0	L1	L1
15	Sprinkler system	L1	L1	L3	X	NA	NA	NA	0	0	L3	L3
16	Ballast system	L3	L3	L3	L3	X	0 ¹⁰	0	0	0	L2	L2
17	Cooling water system	L3	L3	NA	NA	NA	NA	NA	0	0	NA	L2
18	Tank cleaning services	NA	NA	L3	NA	NA	0	NA	0	0	NA	L3 ²
19	Non-essential systems	0	0	0	0	0	NA	0	0	0	0	0
Fresh water												
20	Cooling water system	L3	L3	NA	NA	NA	NA	0	0	0	L3	L3
21	Condensate return	L3	L3	L3	0	0	NA	NA	NA	0	0	0
22	Non-essential system	0	0	0	0	0	NA	0	0	0	0	0
Sanitary and Drains and Scrubbers												
23	Deck drains (internal)	L1	L1	NA	L1	0	NA	0	0	0	0	0
24	Sanitary drains (internal)	0	0	NA	0	0	NA	0	0	0	0	0
25	Scrubbers and discharges (overboard)	0 ^{1,8}	0 ^{1,8}	0 ^{1,8}	0 ^{1,8}	0 ^{1,8}	0	0	0	0	0 ^{1,8}	0
Sounding and Air												
26	Water tanks or dry spaces	0	0	0	0	0	0 ¹⁰	0	0	0	0	0
27	Oil tanks (flash point >60°C)	X	X	X	X	X	X ³	0	0 ¹⁰	0	X	X
Miscellaneous												
28	Control air	L1	L1	L1	L1	L1	NA	0	0	0	L1	L1
29	Service air (non-essential)	0	0	0	0	0	NA	0	0	0	0	0
30	Brine	0	0	0	0	0	NA	NA	NA	0	0	0
31	Auxiliary low pressure steam (<7bar)	L2	L2	0 ⁹	0 ⁹	0 ⁹	0	0	0	0	0 ⁹	0 ⁹

ABBREVIATIONS AND FOOTNOTES TO APPLICATION GUIDE

Abbreviations

L1	Fire endurance test in dry conditions 60 minutes, IMO Res A. 753(18)
L2	Fire endurance test in dry conditions 30 minutes, IMO Res A. 753(18)
L3	Fire endurance test in wet conditions 30 minutes, IMO Res A. 753(18)
0	No fire endurance test required
NA	Not applicable
X	Metallic materials having a melting point greater than 925°C

Footnotes

1. Where non-metallic piping is used, remotely controlled valves to be provided at ship's side
2. Remote closing valves to be provided at cargo tanks
3. When cargo tanks contain flammable liquids with flash > 60°C. "0" may replace "NA" or "X"
4. For drains serving only the space concerned, "0" may replace "L1"
5. When controlling functions are not required by statutory requirements or guidelines "0" may replace "L1"
6. For pipes between machinery spaces and deck water seal, "0" may replace "L1"
7. For passenger vessels, "X" shall replace "L1"
8. Scrubbers serving open decks in position 1 and 2, as defined in regulation 13 of the International Convention on Load Lines, 1996, should be "X" throughout unless fitted at the upper end with the means of closing capable of being operated from position above the freeboard deck in order to prevent downflooding,
9. For essential services, such as fuel oil tank heating and ship's whistle, "A" shall replace "0"
10. For tankers where compliance with paragraph 3(f) of regulation 13F of annex I of MARPOL 73/78 is required, "NA" shall replace "0"