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Piping Design Specification - Minimum Access Requirements Table (2)

		C.L	Minimum Access Requirements					
Object		Elevation	Permanent					
		Above		Platform		Movable Ladder (Note 1)	Movable Step (Note 2)	
		Ground						Remarks
		Or	With	With	Fixed Ladder	lov Aot	Sto	
		Platforms	Stairway	Ladder			Z C	
		(mm)						
	Piping Special components	Up to1800						
not Required maint. / operation		Above 1800		O		О	O	
	Piping Special components	Up to1500						
Required maint. / operation		1500 to3600				О	O	
		Above3600		0				
Spring Supports Blanks on Piping		N/A						
		Up to1800						
		1800 to3000					0	
		Above3000		0				
5. Blanks on Equipments		Above 3000	<u> </u>	О			_	
6. Flow Elements + valve		Up to 3600				0	О	
(Orifice)		Above 3600		O	0	О		(Note 5)
(Venturi) 7. Temperature Instruments 8. Instrument Transmitters		Pipe Rack	<u> </u>					
		Up to 3600	<u> </u>		-	О	О	
		Above 3600	<u> </u>		0			
8.1	nstrument Transmitters	Up to 1800			0		0	
		Above 1800			О	0	0	
9. Level instruments + valve		Up to 3600	 			0	О	
10. Pressure Instruments + valve		Above 3600 Up to 1800	 		О	О		
10. 1	Pressure Instruments + valve	1800 to3600	 			0	0	
	-	Above3600	+		0	U	U	
	Tower	Above 1800	+	0	U			
	Vertical Drums on Head	ALL	+	0				
	Vertical Drums on Shell	Up to 3600		0		0	0	
	vertical Drums on Shen	Above 3600		0		0	0	
Š	Horizontal Drums on top	ALL		0				
ole	Horizontal Drums on Shell	Up to 3600	+			0	0	
anh	Horizontal Diums on Shen	Above 3600	+	0			Ŭ	
11. Manholes	Horizontal Drums on Heads	Up to 3600	+			0	0	
		Above 3600	+	0				
	Tanks on shell		As per approved drawing					
	Tanks on Roof	Up to 3600		1 - 1	0			
		Above 3600	О					
	Others	Above 1800		0				
12.	Heat Exchanger Shell and Channel	Up to 3600				0	О	
	Cover (Lowest shell)	Above 3600		0				
13. Compressors / Turbines			0	0				(Note 6)
14. Air Coolers Motor			0					
15. Air Cooler Header Boxes				0				
16. Elevated Stacks				0				
17. Heaters		Above 3000	0					<u> </u>
18. Local Sampling Point		Above 1800		0				
	Elevated Hydrant / Monitor		0					
20.	Over Head Electrical Crane			O				

Tables Notes:

(1) Maximum length of movable ladders shall be considered 3.6 m.

- (2) Maximum hight of movable step shall be considered 2.0 m.
- (3) Extended stem valves and chain operated valves, or extension handle of valves can be applied, if the valves of NPS 2" and larger can not be operate within the reach from the platform in accordant with Par. 4.4.
- (6) For local sampling points, which will be manipulated frequently, stair access shall be realized, if the platform is located more than 1.5m above ground.
- (7) For integral type flanged flow instruments such as variable area flow meter, positive displacement flow meter, magnetic flow meter, turbine meter, etc., permanent platform with ladder access shall be provided as a minimum access requirement.
- (6) Generally all equipment shall be accessible for operation and maintenance.