

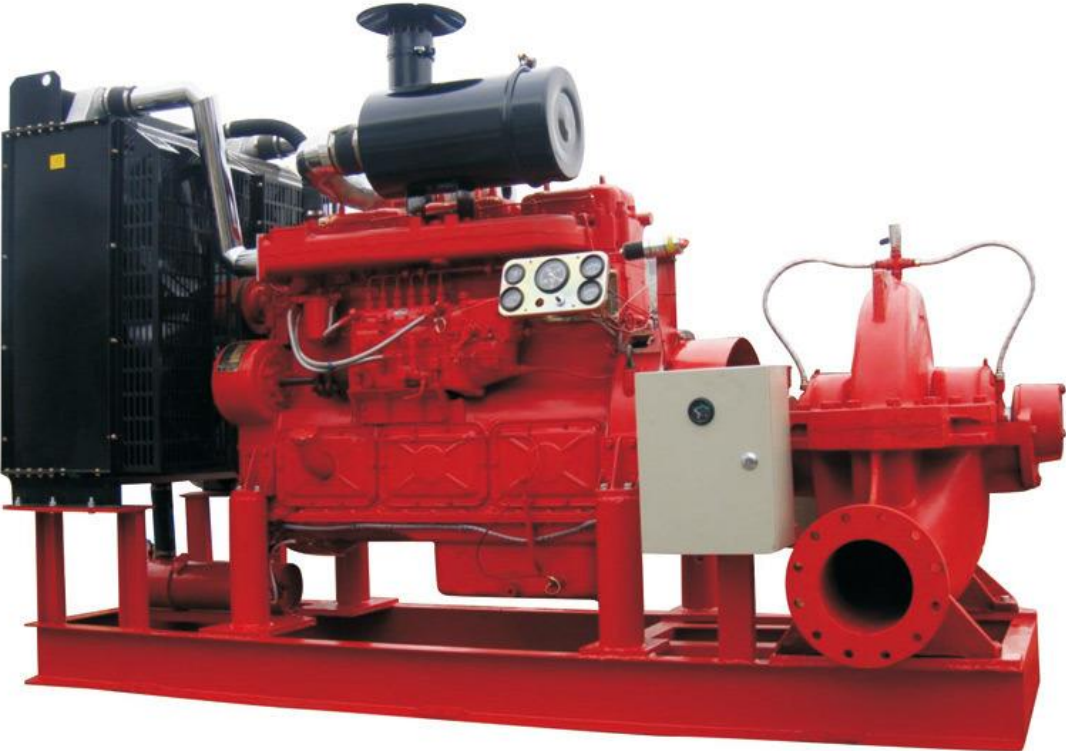
# Fire Fighting Pumps



# Main Pump or Electric Pump



# Stand by Pump or Emergency Pump



# Jockey Pump or Make Up Pump



# Fire Pump Types

Centrifugal Pumps

+ve Displacement Pumps

**+ve Suction Head**



Pump

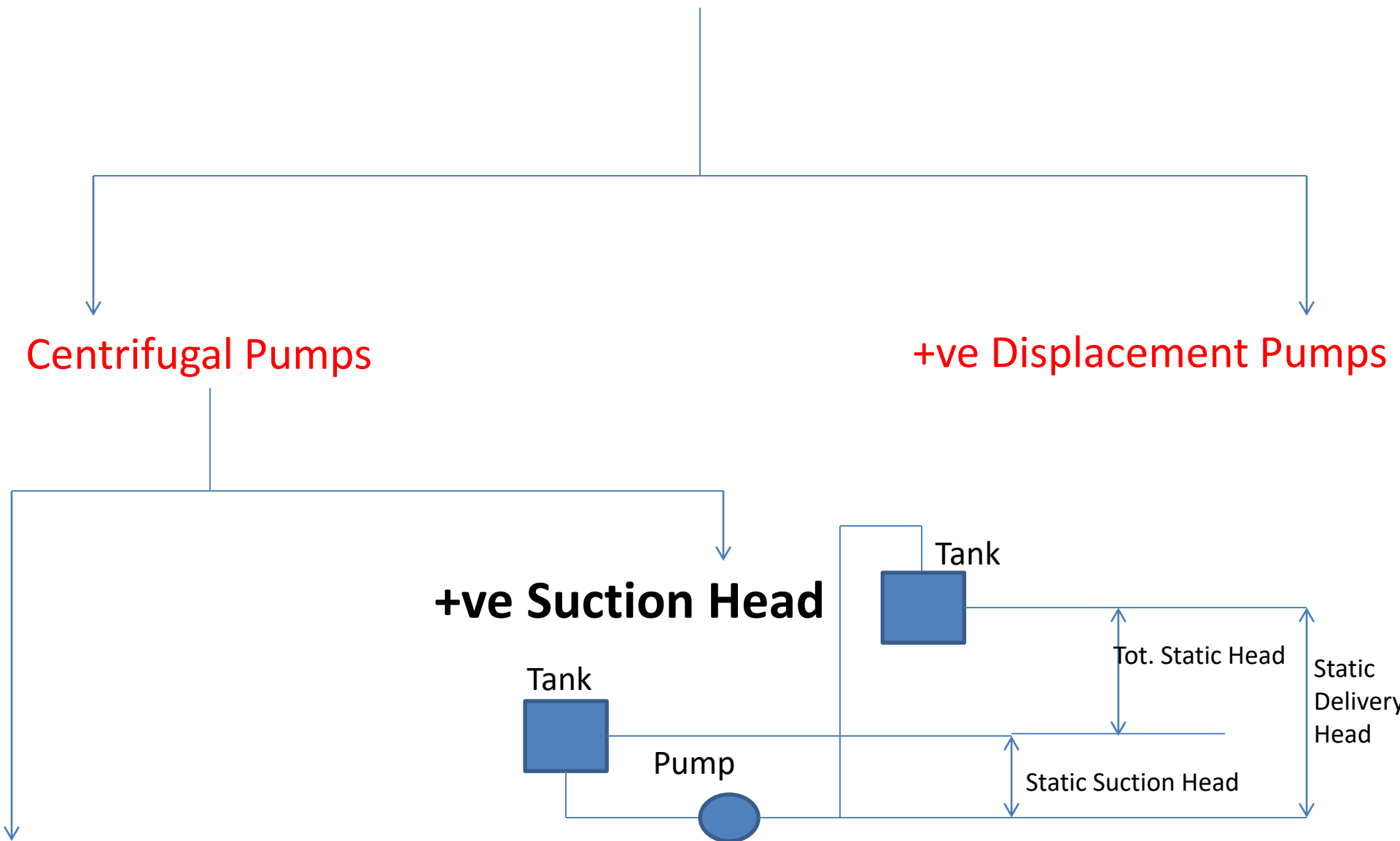


Tank

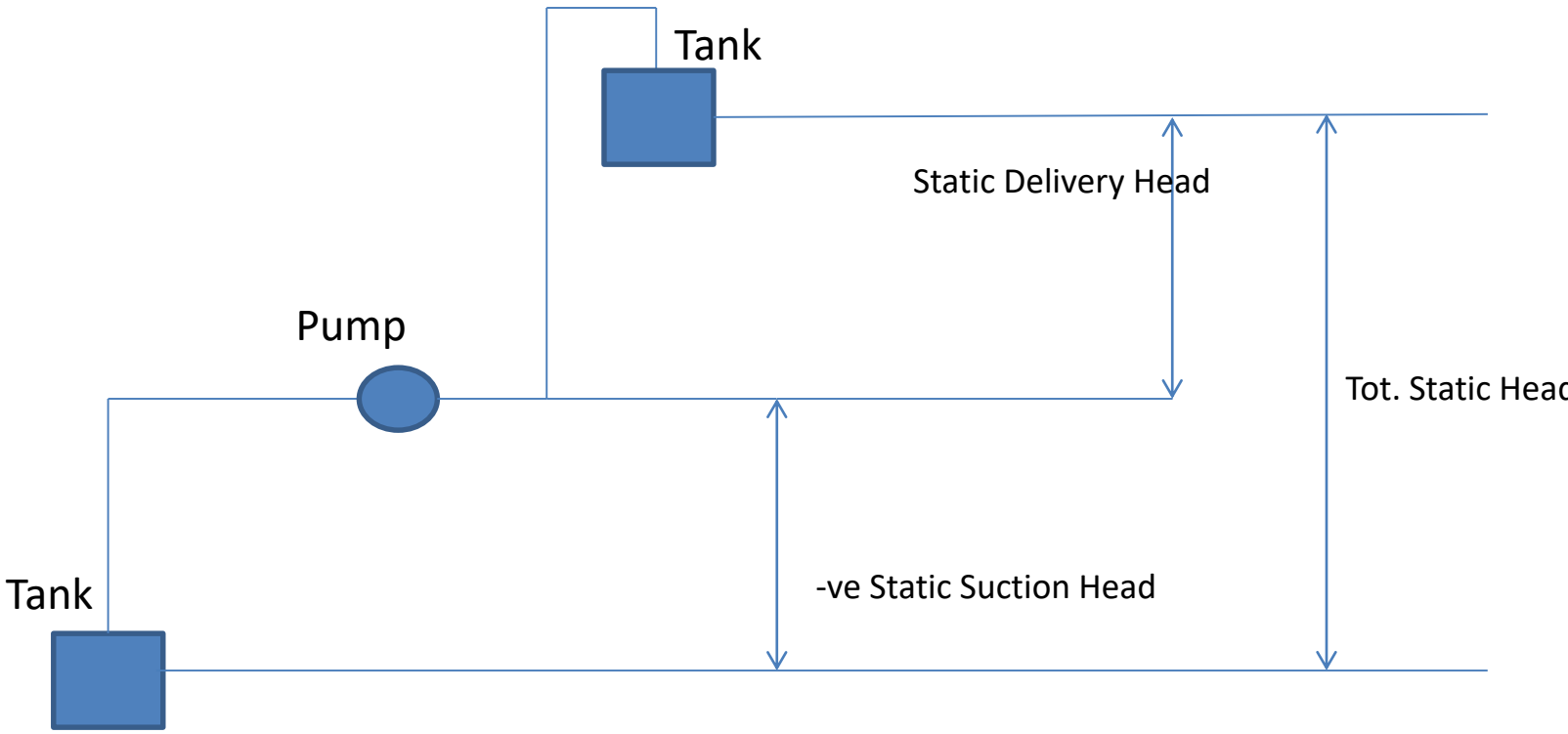
Tot. Static Head

Static Suction Head

Static Delivery Head



# -ve Suction Head



# Types of Centrifugal Pump

- End Suction Pump



- Vertical Inline Pump





- Horizontal Split Case Pump



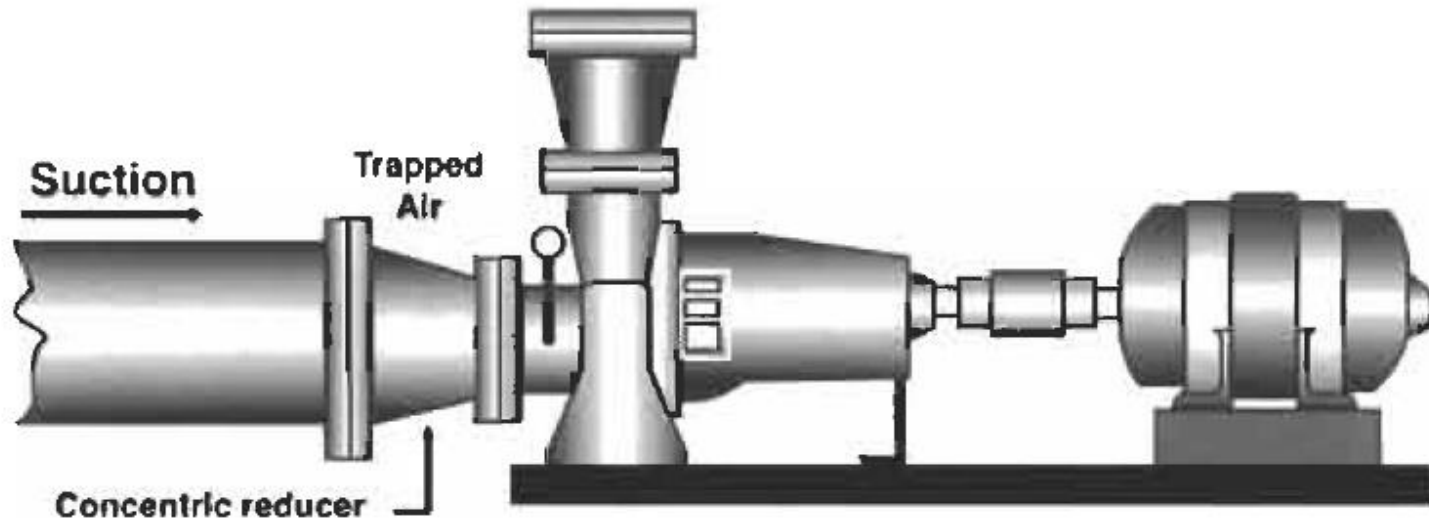
- Vertical Turbine Pump



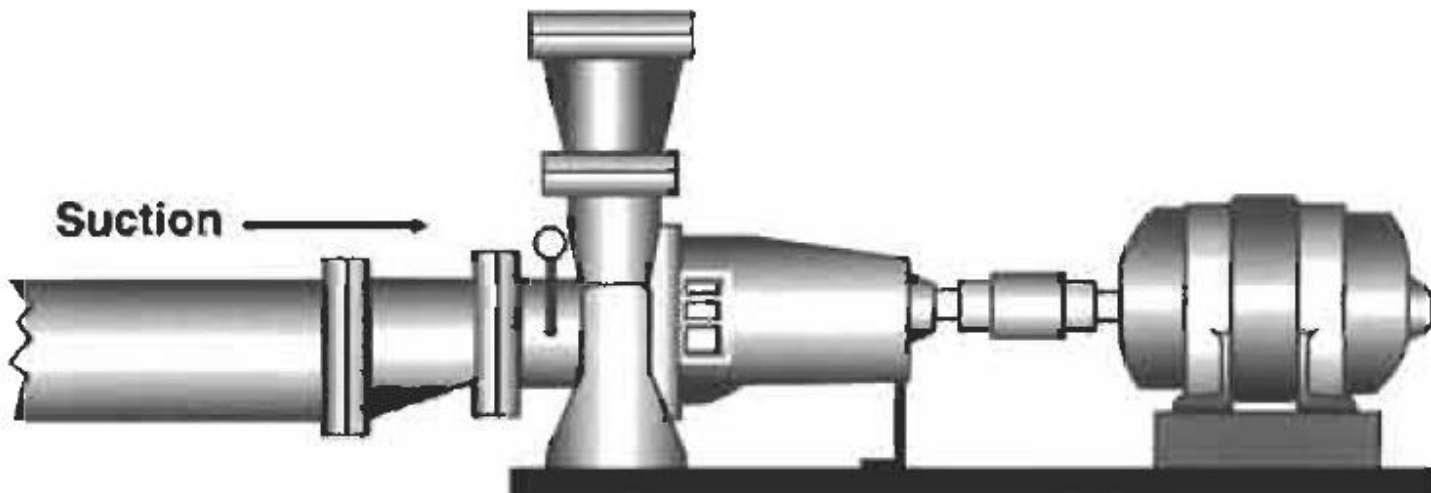
TABLE 4.26(a) Summary of Centrifugal Fire Pump Data (U.S. Customary)

Pump Rating (gpm)	Minimum Pipe Sizes (Nominal) (in.)						Number and Size of Hose Valves	خطوط تجميع Hose Header Supply
	المدخل Suction <sup>a,b,c</sup>	المخرج Discharge <sup>d</sup>	Relief Valve	Relief Valve Discharge	Meter Device			
25	1	1	¾	1	1¼	1 — 1½	1	
50	1½	1¼	1½	1½	2	1 — 1½	1½	
100	2	2	1½	2	2½	1 — 2½	2½	
150	2½	2½	2	2½	3	1 — 2½	2½	
200	3	3	2	2½	3	1 — 2½	2½	
250	3½	3	2	2½	3½	1 — 2½	3	
300	4	4	2½	3½	3½	1 — 2½	3	
400	4	4	3	5	4	2 — 2½	4	
450	5	5	3	5	4	2 — 2½	4	
500	5	5	3	5	5	2 — 2½	4	
750	6	6	4	6	5	3 — 2½	6	
1000	8	6	4	8	6	4 — 2½	6	
1250	8	8	6	8	6	6 — 2½	8	
1500	8	8	6	8	8	6 — 2½	8	
2000	10	10	6	10	8	6 — 2½	8	
2500	10	10	6	10	8	8 — 2½	10	
3000	12	12	8	12	8	12 — 2½	10	
3500	12	12	8	12	10	12 — 2½	12	
4000	14	12	8	14	10	16 — 2½	12	
4500	16	14	8	14	10	16 — 2½	12	
5000	16	14	8	14	10	20 — 2½	12	

### INCORRECT



### CORRECT



- Anti-Vortex Plate



.5 D

- OS & Y Gate Valve



- ( Strainer ) Suction Screening



- Flexible Connector

X



✓





- Concentric Increaser



- Check Valve

