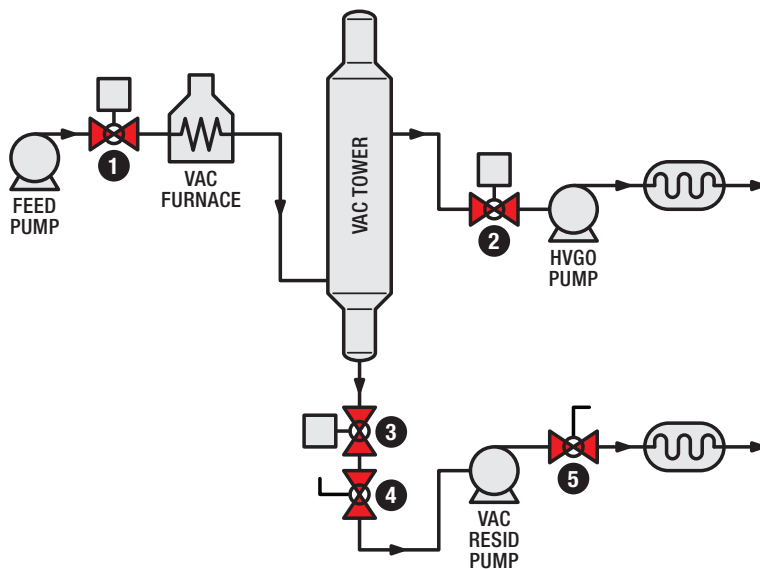


Vacuum Distillation

Valve Number	Valve Description	Design Temperature Range		Design Pressure Range		Pipe Size		Recommended Valve ¹		
		deg F	deg C	psig	bar g	inches	dn	C-Series	ISOLATOR 2.0	FlexStream®
1	Feed Isolation	400 – 720	204 – 382	100 – 200	7 – 14	6 – 10	150 – 250		●	
2	Heavy Vacuum Gas Oil Pump EBV	400 – 720	204 – 382	100	7	4 – 8	100 – 200	●		
3	Vacuum Tower Bottoms EBV	720	382	100	7	8 – 14	200 – 350	●		
4	Vacuum Bottoms Pump Isolation	720	382	100	7	6 – 10	150 – 250	●		
5	Vacuum Bottoms Exchanger Isolation	720	382	200	14	6 – 10	150 – 250	●		

¹ Recommend ISOLATOR 2.0 if size, pressure and temperature conditions are met.



Typical operating conditions are:

- High temperature
400 – 720° F (204 – 382° C)
- Coking and heavy asphaltene service
- Temperature cycling
- Erosive conditions