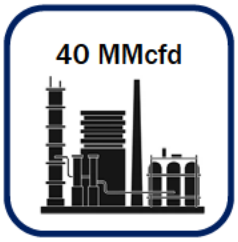
CASE STUDY REPORT

PROJECT SUMMARY

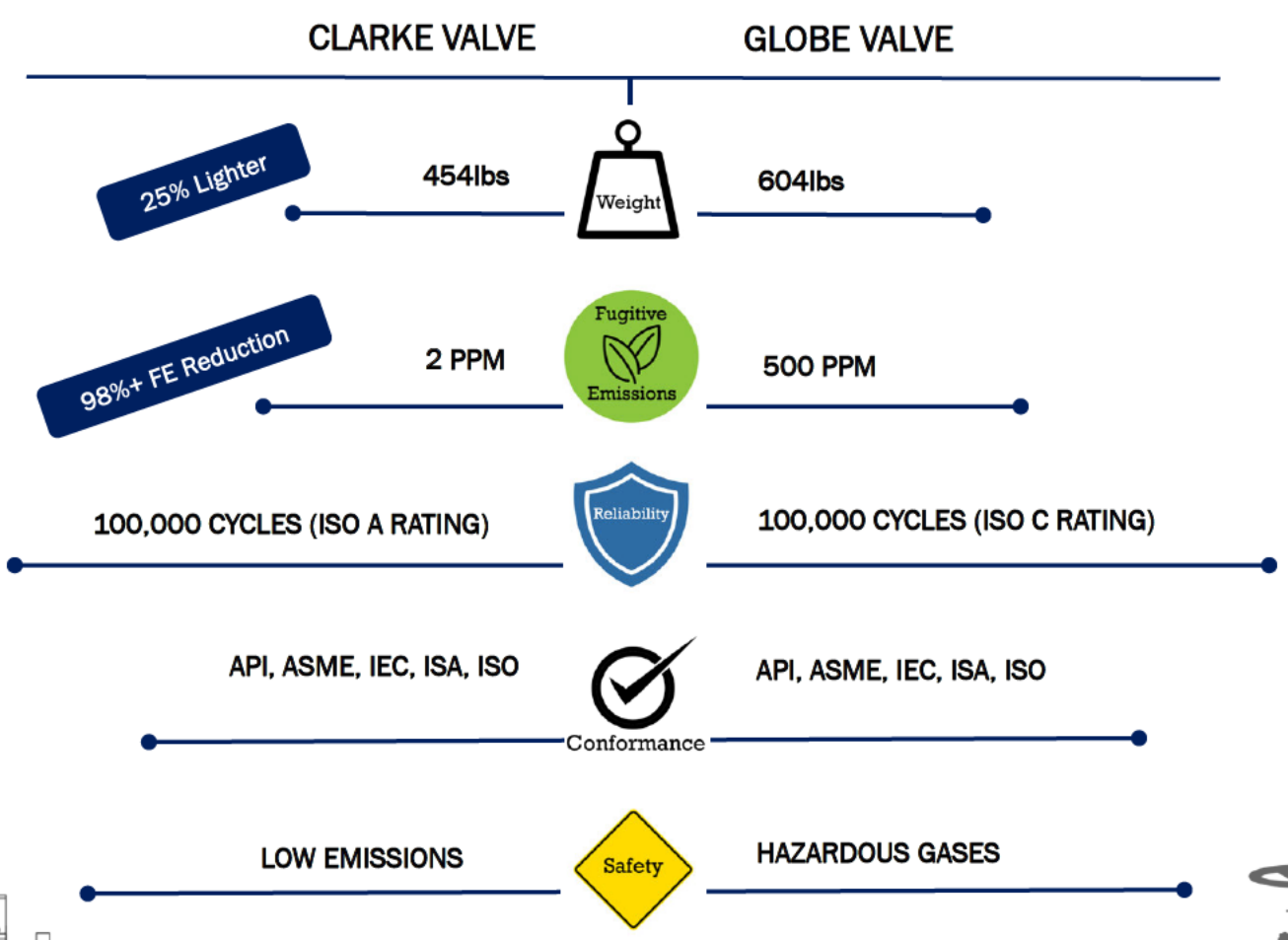
PROJECT NAME	APPLICATION/FLUID	QTY	COMMISSIONED DATE	END USER ENGINEER	LOCATION
Compressor Stations	Inlet Control – Natural Gas	4	17 June 2021	[redacted]	Pennsylvania, USA

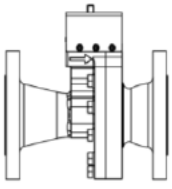
APPLICATION SUMMARY

The Clarke Valves are currently installed at 2 compressor stations in the [redacted]. The Clarke Valves are replacing 6" globe valves mounted with a spring and diaphragm actuator. The application is described as the inlet control valve to the compressor station. The fluid is relatively clean and the Clarke Valves were mounted with a pneumatic spring return actuator.



BENEFITS DELIVERED





VALVE CONFIGURATION

Dilating Disk	SV6-RF300-B-WCB-CV1345-02 (6" Valve, Pressure Class 300, WCB Body, CV1345)
Automation Package	Pneumatic Single Acting SR, Field Q / QS0950-04, Fail-Closed (Emerson)
Positioner	DVC6200 (Fisher)
Service	Modulating (Class IV) – General Service
Valve Replaced	6" Globe Valve (CVS)

PROCESS CONDITIONS

	UNITS	CASE 1	CASE 2	CASE 3
Flow Rate	MMcfd	23	40	
Inlet Pressure	psig	90	90	
Outlet Pressure	psig	88	86	
Δ Pressure	psid	2	4	
Temperature	F	50	50	

PROJECT HISTORY AND FEEDBACK

ISSUE	DESIGN UPGRADES	DATE	OUTCOME
N/A	N/A	N/A	N/A

Free space to input any feedback or comments from the field.

RECOMMENDATIONS

The Clarke Valve has been installed and operational with no issues since June 17, 2021. We recommend the Clarke Valve for any natural gas control valves found at the compressor station (inlet and discharge control valves).

ADDITIONAL INFORMATION AND/OR PICTURES