



The new way of controlling the flow
Dilating disc valve

LESS WEIGHT : up to 80% lighter than globe valves

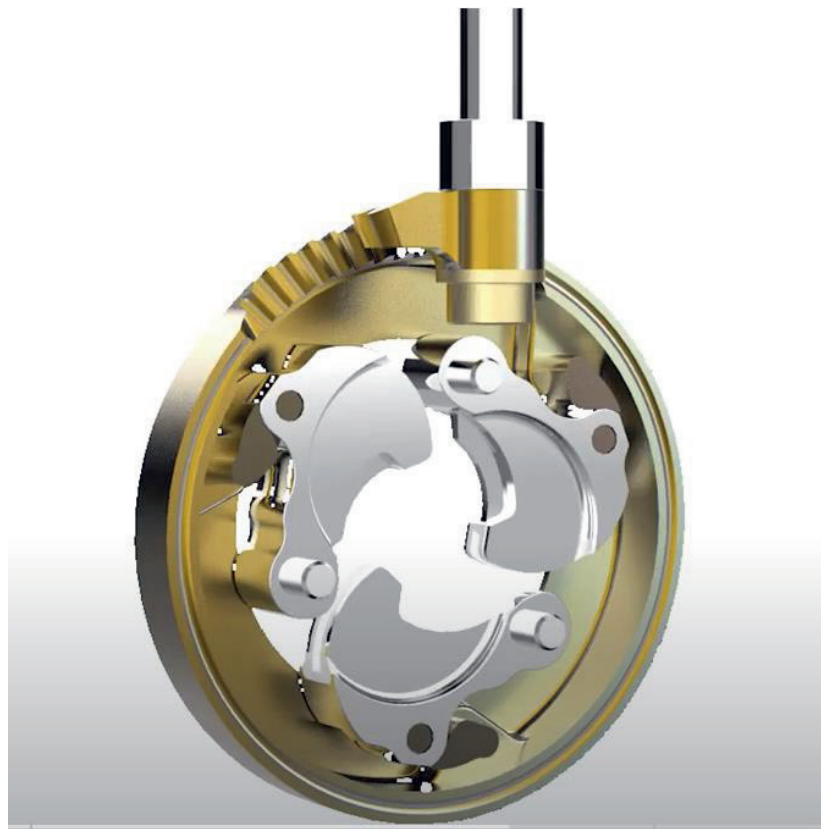
LESS EMISSIONS : 98% less emissions than rising stem valves

LESS MAINTENANCE : service takes 30 minutes

LESS DOWN TIME : eliminates cavitation and erosion damages on valve









PATENTED STEM
SEAL STACK

ZERO EMISSIONS
STEM SEAL TECHNOLOGY

NO PACKING
OR TIGHTENING



Certifications: API 641 & ISO 15848 AM CC3

Yarmouth Research and Technology, LLC

Body / Bonnet Leakage

Cycle Number	Bonnet Temp. (F)	Pressure (psig)	Leakage (PPM)	
			Avg.	Max.
0	81	600	1	2
610	80	600	14	16

Valve Operating Torque

Operating Torque First Cycle:	10	in-lb
Operating Torque Last Cycle:	10	in-lb

Results

Number of Mechanical Cycles Completed:	610
Number of Thermal Cycles Completed:	3
Maximum Static Leakage Throughout Test:	18 PPMv
Maximum Dynamic Leakage Throughout Test:	20 PPMv
Maximum Body/Bonnet Leakage Throughout Test:	16 PPMv

Final Test Results: PASS

Qualifications of similar valves according to para. 11 of test standard per

Valve Group: A

Test Notes:

Certified By

Matthew J. Wasielewski

Matthew J. Wasielewski, PE
President and Manager
Yarmouth Research and Technology, LLC
Test Technician: Jesse Jarvi



Yarmouth Research and Technology, LLC

Test Data Summary - Body Seal

Cycle Number	Nom. Temp (C)	Leakage - PPMv	
		Avg.	Max.
0	20	1	1
20,000	20	1	1
60,000	20	0	1
100,000	20	1	1
Maximum Leakage:		1	1
Maximum Allowable:		50	50

Test Data Summary - Operating Actuator Pressure

Cycle Number	Nom. Temp (C)	Operating Actuator Pressure (psig)
0	20	70
100,000	20	69

Packing Retorque Notes:

Adjustment Number	Static Leakage Readings before Tightening (PPMv)		Before Adjustment Not Torque (ft-lb)	After Adjustment Not Torque (ft-lb)	Operating Actuator Pressure (psig)	
	Avg.	Max.			Before Adjustment	After Adjustment
1						
2						
3						
50	50		≤ Maximum Allowable Leakage			

Nut Torque at End of Test: (ft-lb)	N/A	Top	N/A	Bottom
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Performance Class:

ISO FE AM - CC3 - SSA 0 - IRT - Class 300 - ISO 15848-1

Results

The valve met the requirements of the performance class stated above.

Certified By

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ISO 15848-1 Tightness Classes for Stem (or Shaft) Seals With Methane

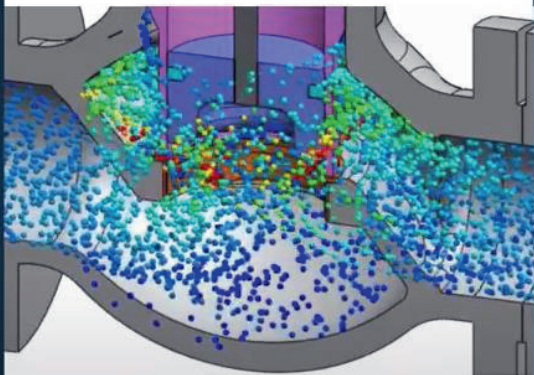
ISO 15848-1 Leakage Tightness Classes	Measured Leak Concentration (Annex B Sniffing Method per EPA Method 21)
AM	< 50ppm
BM	< 100ppm
CM	< 500ppm

ISO 15848-1 Qualification Requirements

Valve Type	Mechanical Cycle Class	Mechanical Cycles Required	Temp. Cycles
Control Valve	CC1	20,000	2
	CC2	60,000	3
	CC3	100,000	4

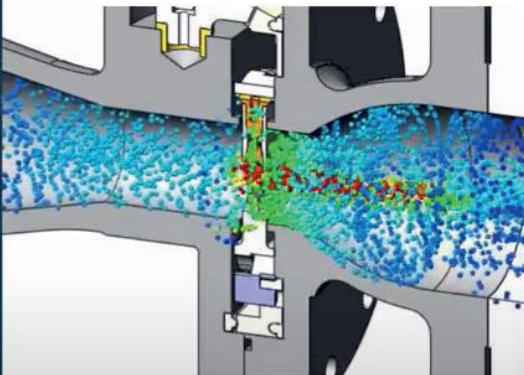
CENTRALIZED FLOW PATH

LEGACY GLOBE VALVE

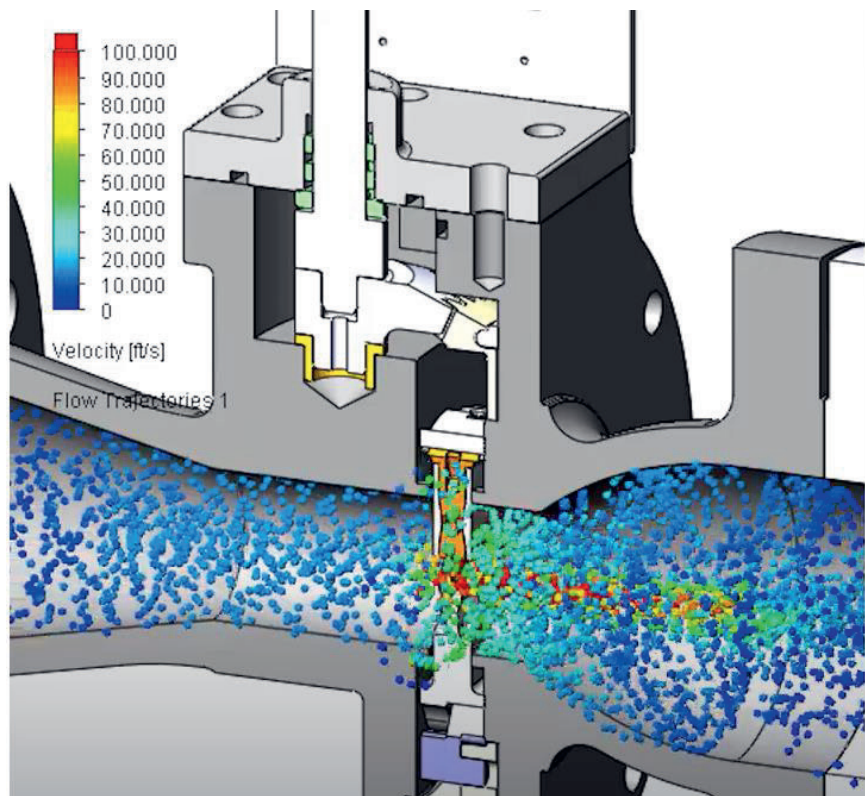


High velocity fluids attack pipe walls, causing corrosion.

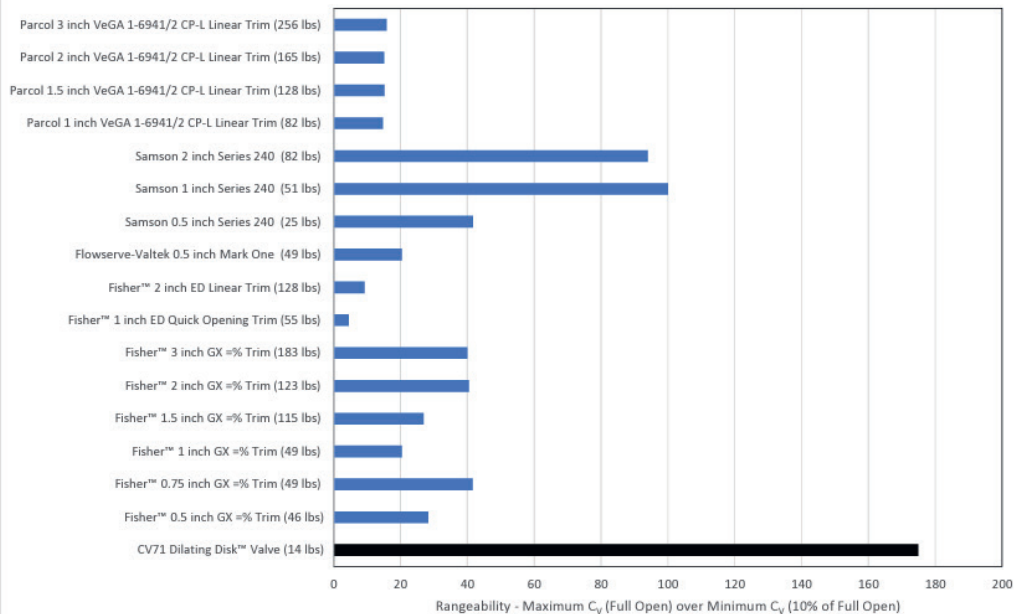
DILATING DISK™ VALVE



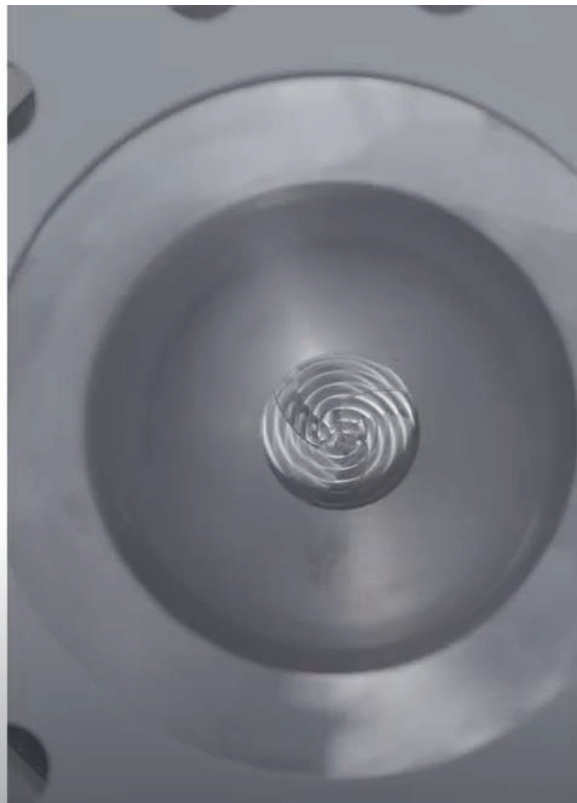
Centralized flow path keeps high velocity fluids away from pipe walls.



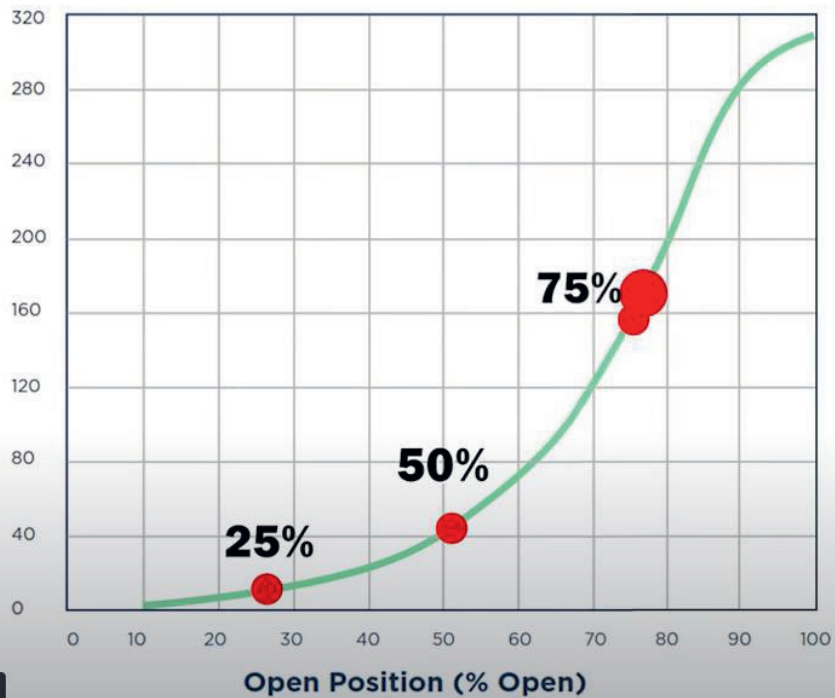
Rangeability Comparison Between CV71 Dilating Disk™ Valve and Globe Valves



For informational purposes only, data taken from publicly available sources



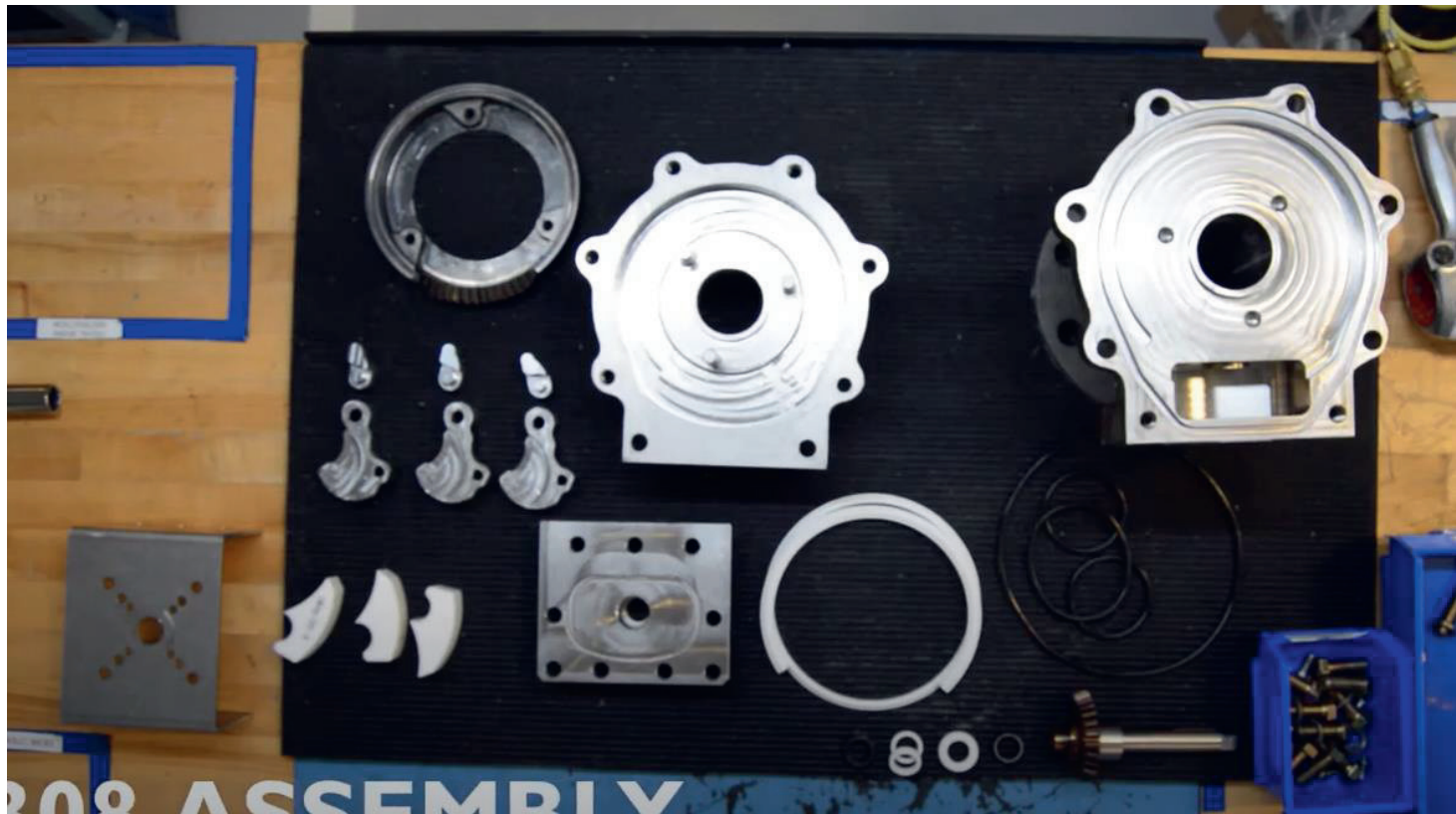
C_v Coefficient

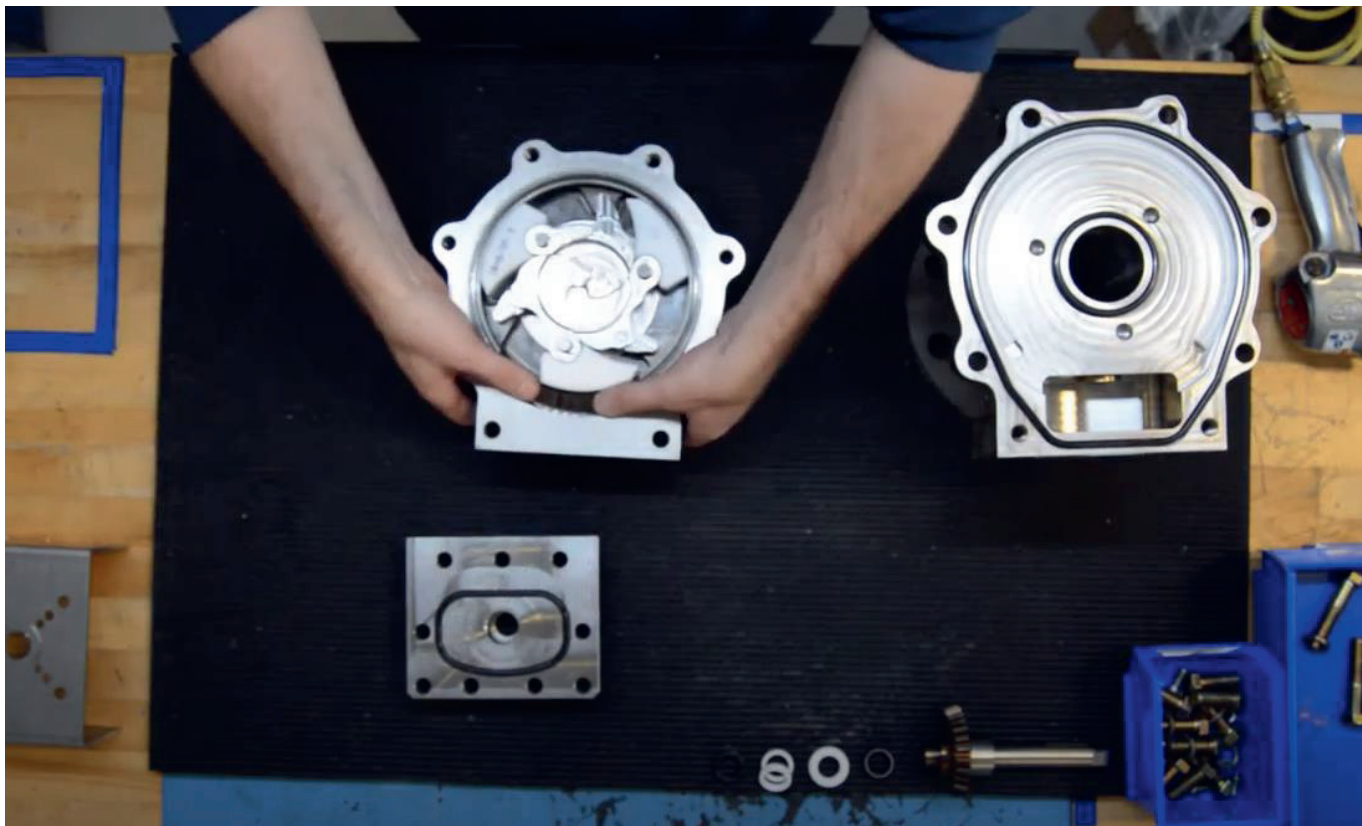


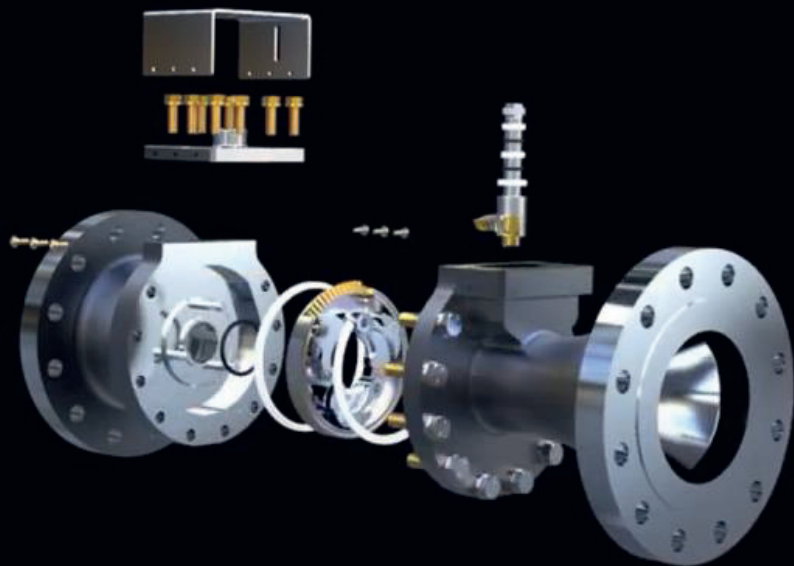
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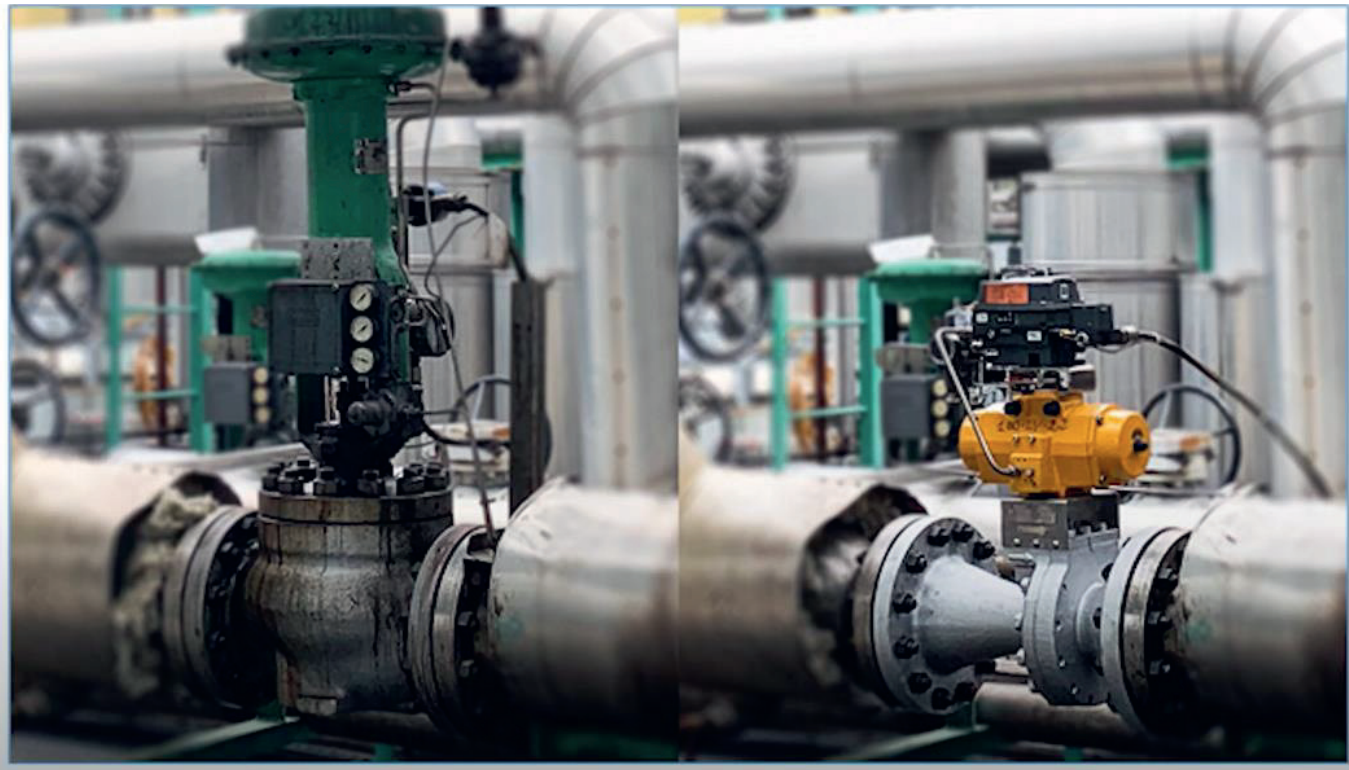


MODEL NUMBER	AVAILABLE SIZES	PRESSURE CLASSES	END CONNECTIONS
CV2	1/4" - 1"	150-1500	NPT, SWE, RF
CV20	1/2" - 3"	150-1500	NPT, SWE, RF
CV71	1" - 4"	150-1500	NPT, SWE, RF
CV308	2" - 6"	150-600	NPT (up to 4"), SWE, RF
CV1345	4" - 12"	150-600	NPT (up to 4"), SWE (up to 4"), RF











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