PRCV-STHM
PIPELINE ROTARY CONTROL VALVES

VRG CONTROLS

SPECS AND MATERIALS CONSTRUCTION

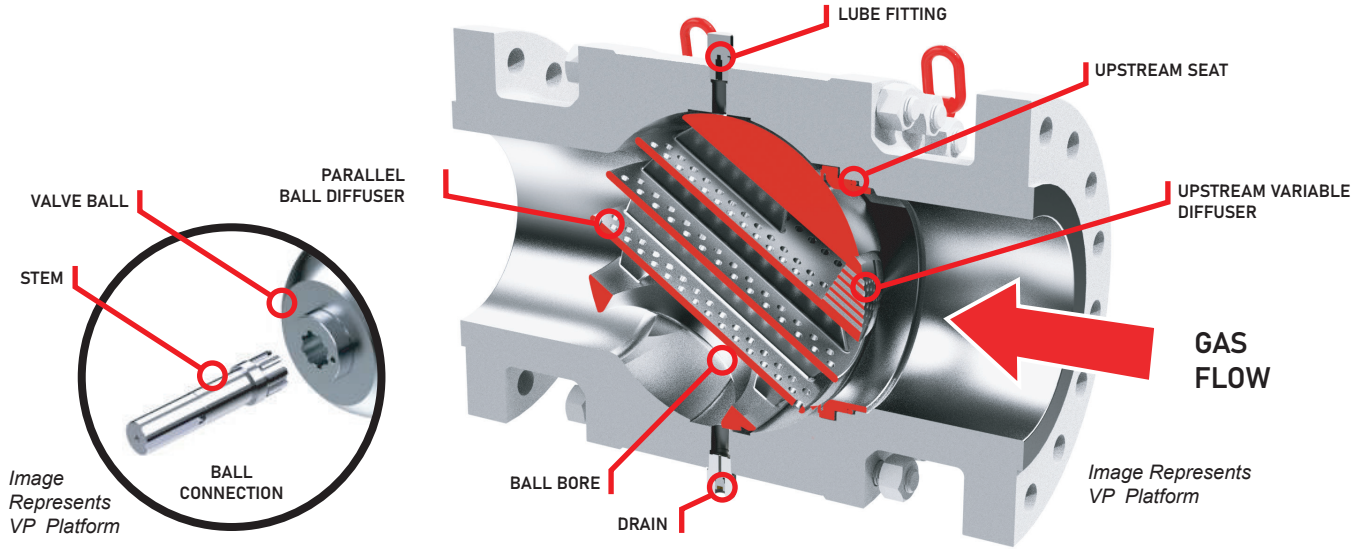
Size Range	6 in to 28 in
Max Noise Attenuation	15 dBA
Relative Capacity	Very High Capacity
Max Range-Ability	100:1
Shutoff	Class V

Design Standard	API-6D ASME 16.34[8], API 6FA [8]
Face-Face Dimensions	API-6D
Flange Dimensions	ASME B16.5
PED / ATEX / CE	Optional[8]
ANSI Range	150 – 1500 ANSI
End Connections	RFFE, Weld, RTJ, Combo
Trim Type	Stealth Trim, Level 2
Performance Trim Technology	Upstream Variable Diffuser Drilled Hole Parallel Plates Drilled Hole Ball Side Exit
Max Control ΔP	1000 psid
Max Shutoff ΔP	FULL ANSI ΔP
Compatible Buried Applications	YES
Flow Profile Curve	Hyperbolic
Min Control Cv	1.0% Max Cv
Max Control Cv	85% Max Cv
Seats	1X Upstream Metal Seats Optional Std Double Piston Effect[8] Soft Seats Optinal
Compatible Actuators	VRG RHPA-DA VRG RHPA-SR Electric Actuators Eletro-Hydraulic Actuators Other Manufacturers

Base Platform	55 / VP
Control Valve Specs	Per VRG PRCV Specifications
Body (Forged)	A350 LF2[4,8]
Stem	AISI 4140 + 1.0 mil ENP[4] 174-PH SS[8]
Ball	A350 LF2 + 1.0 mil ENP[4] ASTM A694-F60 + 3.0 mil ENP[8] Optional SS[8] PRCV Control Specification
Lubrication	Mobil SHC220 OR Valtex 2000
Stem Seal	PTFE V-PACK[8] VITON O-RINGS[4]
Stem Injection**	Stem Inject & Opposing Stem Relief[4,8]
Body Drain**	90° From Stem[4,8]
Seat Ring**	A350 LF2 + ENP[4,8], Optional SS[8] VRG Spec Seat Springs[4,8]

MATERIALS OF CONSTRUCTION	
Seat Seal	VITON O-Ring Insert[4] DELRIN Molded Profiled Insert[8] Optional SS[8]
Seat Injection	Upstream Buttonhead[4,8]
O-Rings	*VITON GLD* [4,8]
Firesafe Seals	GRAPHITE[8]
High Performance Trim	N/A
Final Assembly and Test	ITALY
Country Origin	ITALY

4 - Applies to Type 55 Platform
8 - Applies to Type VP Platform

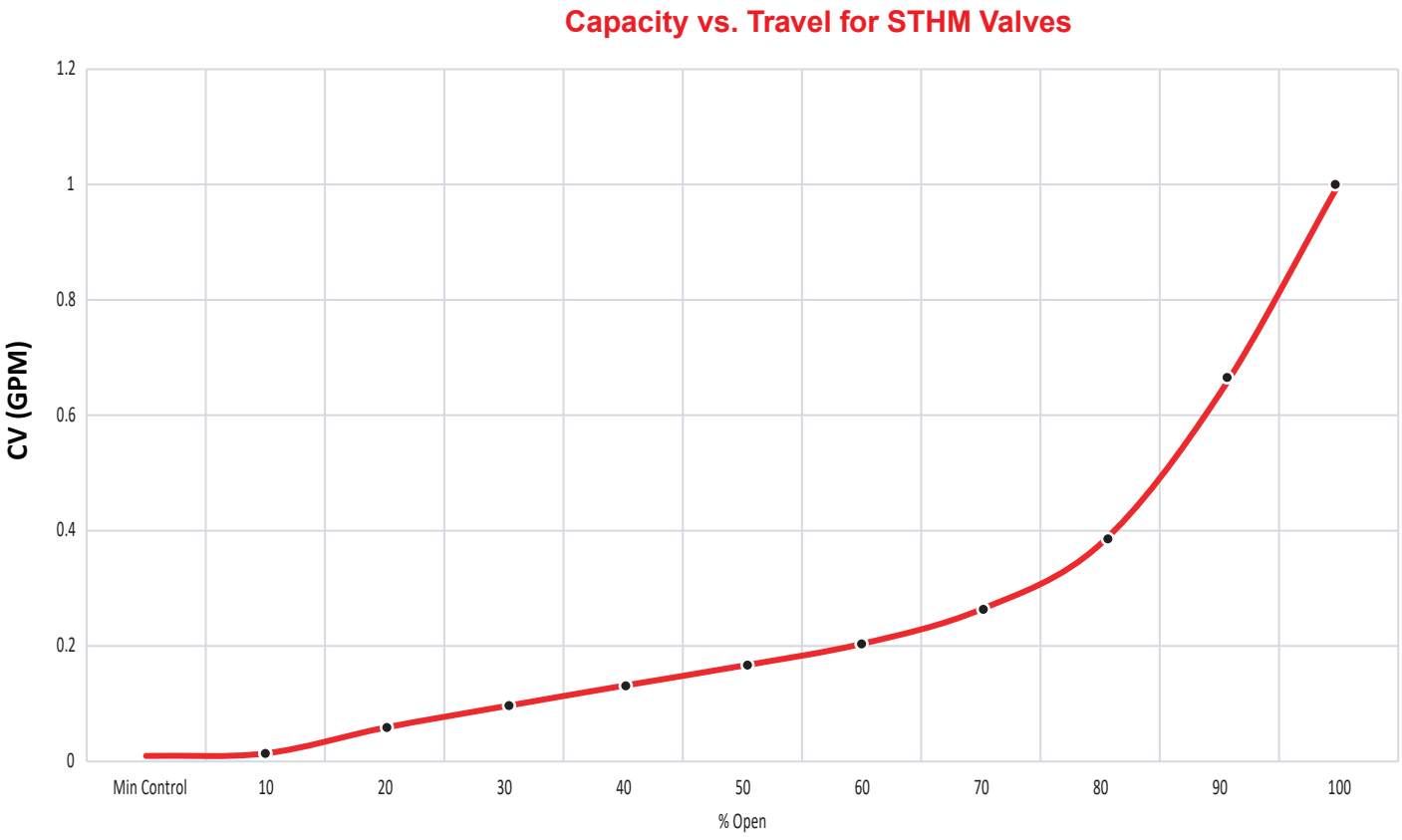


CV PROFILE

PERCENT TRAVEL

Valve Size	Min Control	10	20	30	40	50	60	70	80	90	100
6"	9	13	54	88	121	153	188	243	347	587	922
8"	19	27	111	182	250	315	389	503	717	1213	1907
10"	31	43	180	296	405	512	632	816	1164	1969	3095
12"	38	53	219	360	493	623	769	993	1416	2396	3766
16"	67	94	390	639	876	1107	1367	1766	2517	4260	6696
20"	105	146	610	999	1369	1730	2136	2759	3593	6657	10463
24"	151	211	878	1439	1972	2492	3075	3974	5663	9586	15067
28"	205	287	1194	1957	2682	3389	4182	5404	7701	13036	20491
Xt	0.862	0.862	0.859	0.852	0.841	0.829	0.82	0.811	0.778	0.649	0.278
Fl	0.962	0.962	0.946	0.933	0.923	0.921	0.923	0.918	0.876	0.753	0.493

Cv PROFILE - PRCV-STHM

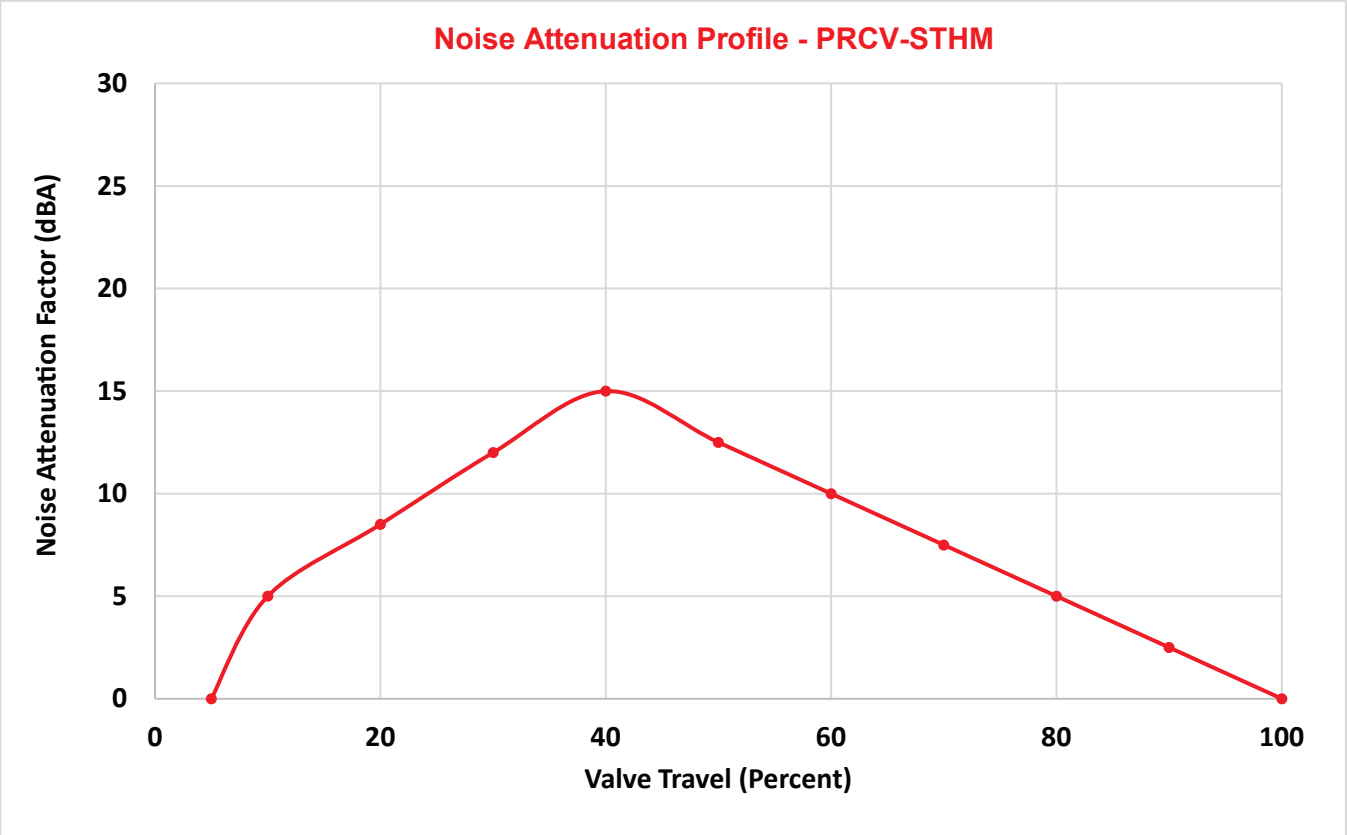


NOISE ATTENUATION (DBA)

Noise Attenuation (dBA) vs. Rotation of PRCV Control Valve

Percent Rotation	0	5	10	20	30	40	50	60	70	80	90	100
PRCV-STHM		0	5	8.5	12	15	13	10	8	5	3	0

Noise Attenuation (dBA) vs. Rotation of PRCV Control Valve



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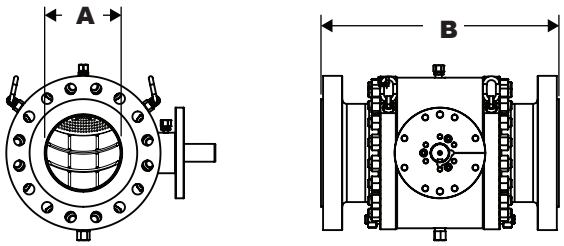

PRCV-STHM Series Face to Face Dimensions (RFFE)

A Size (Bore)		B 150 ANSI		B 300 ANSI		B 600 ANSI		B 900 ANSI		B 1500 ANSI	
Inches	(mm)	Inches	(mm)	Inches	(mm)	Inches	(mm)	Inches	(mm)	Inches	(mm)
6”	100	15.5	394	15.875	403	22	559	24	610	28	711
8”	150	18	457	19.75	502	26	660	29	737	32.75	832
10”	200	21	533	20.375	518	31	787	33	838	39	991
12”	300	24	610	25.5	648	33	838	38	965	44.5	1130
16”	400	30	762	33	838	39	991	44.5	1130	54.5	1384
20”	500	36	914	39	991	47	1194	52	1321	65.5	1664
24”	600	42	1067	45	1143	55	1397	61	1549	80.5	2045
28”	700	49	1245	53	1346	61	1549	-	-	-	-

PRCV-STHM Series Standard Weights (Approximate)

Size (Bore)		150 ANSI		300 ANSI		600 ANSI		900 ANSI		1500 ANSI	
in	mm	Lbs.	kg	Lbs.	kg	Lbs.	kg	Lbs.	kg	Lbs.	kg
6”	100	389	177	433	196	545	247	723	328	1037	470
8”	150	689	313	745	337	1012	459	1062	482	1494	678
10”	200	878	398	1100	499	1269	576	1983	899	2427	1100
12”	300	1412	640	1437	651	1927	874	2539	1152	3412	1548
16”	400	2103	953	2606	1183	3224	1462	4130	1873	9998	4535
20”	500	4072	1848	4907	2226	5885	2670	7024	3186	18892	8569
24”	600	7998	3628	7798	3537	8890	4033	11313	5132	-	-
28”	700	9896	4488	11577	5251	13318	6040	-	-	-	-