



PRCV-STHP

PIPELINE ROTARY CONTROL VALVES



Size Range	4 in to 12 in
Max Noise Attenuation	25 dBA
Relative Capacity	High Capacity
Max Range-Ability	200:1
Shutoff	Class V

Design Standard	ASME B16.5 & B16.34 API 6FA / PED Compliant
Face-Face Dimensions	API-6D
Flange Dimensions	ASME B16.5
PED / ATEX / CE	Standard
ANSI Range	150 – 1500 ANSI
End Connections	RFFE, Weld, RTJ, Combo
Trim Type	Stealth Trim, Level HP
Performance Trim Technology	Upstream Variable Diffuser Curved Parallel Ball Diffuser Plates Downstream Ball Relief Hole
Max Control ΔP	1500 psid
Max Shutoff ΔP	FULL ANSI ΔP
Compatible Buried Applications	YES
Flow Profile Curve	Modified Equal Percentage
Min Control Cv	0.5% Max Cv
Max Control Cv	80% Max Cv
Seats	1X Upstream Metal Seats Std Soft Seats Optional Double Piston Effect
Compatible Actuators	VRG RHPA-DA VRG RHPA-SR Electric Actuators Electro-Hydraulic Actuators Other Manufacturers

Base Platform	VP
Control Valve Specs	Per VRG PRCV Specifications
Body (Forged)	A350 LF2
Stem	17-4PH SS
Ball	ASTM A694-F60 + 6.0 mil TCC PRCV Control Specification
Lubrication	Mobil SHC220 OR Valtex 2000
Stem Seal	PTFE V-PACK
Stem Injection	Stem Inject & Opposing Stem Relief Port
Body Drain	Rotate 90° From Stem - Qty 2 Opposed
Seat Ring	ASTM A182 F6NM + 6 mil TCC - Standard A350 LF2 + 3 mil ENP - Optional VRG Spec Seat Springs

MATERIALS OF CONSTRUCTION

Seat Seal	ASTM A182 F6NM + 6 mil TCC - Standard DELTRIN Molded Profiled Insert - Optional
O-Rings	VITON GLD
Firesafe Seats	GRAPHITE
High Performance Trim	17-4PH SS OR INCONEL
Final Assembly and Test	ITALY
Country Origin	ITALY

8 - Applies to Type VP Platform



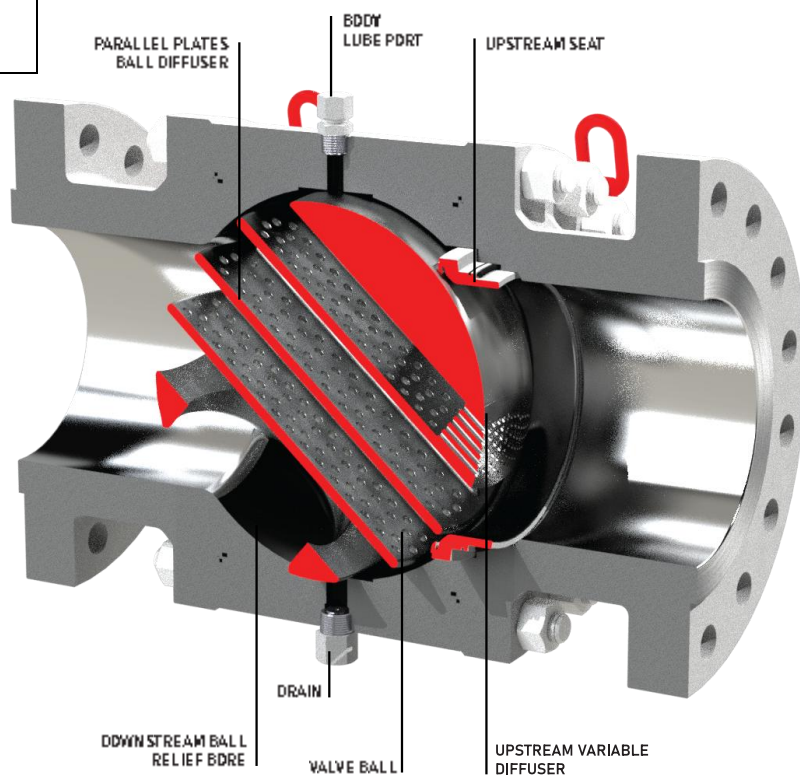
SIZE RANGE
4 in to 12 in



MAX NOISE
ATTENUATION
25 dBA



MAX RANGE-ABILITY
200:1





PRCV-STHP

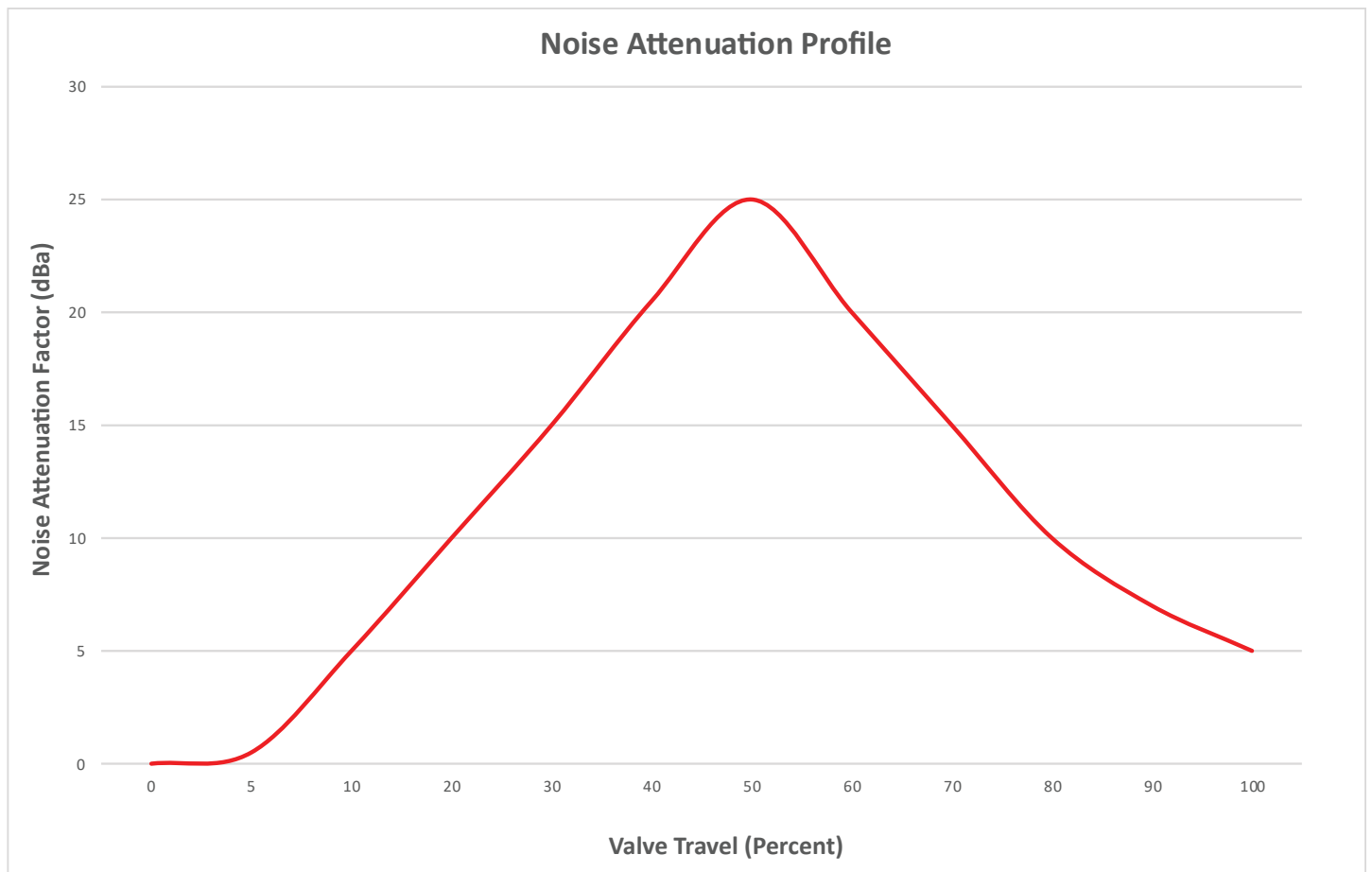
PIPELINE ROTARY CONTROL VALVES



NOISE ATTENUATION (DBA)

Percent Rotation	0	5	10	20	30	40	50	60	70	80	90	100
PRCV-STHP	0	0.5	5	10	15	20.5	25	20	15	10	7	5

NOISE ATTENUATION (DBA) VS. ROTATION OF PRCV CONTROL VALVE





PRCV-STHP

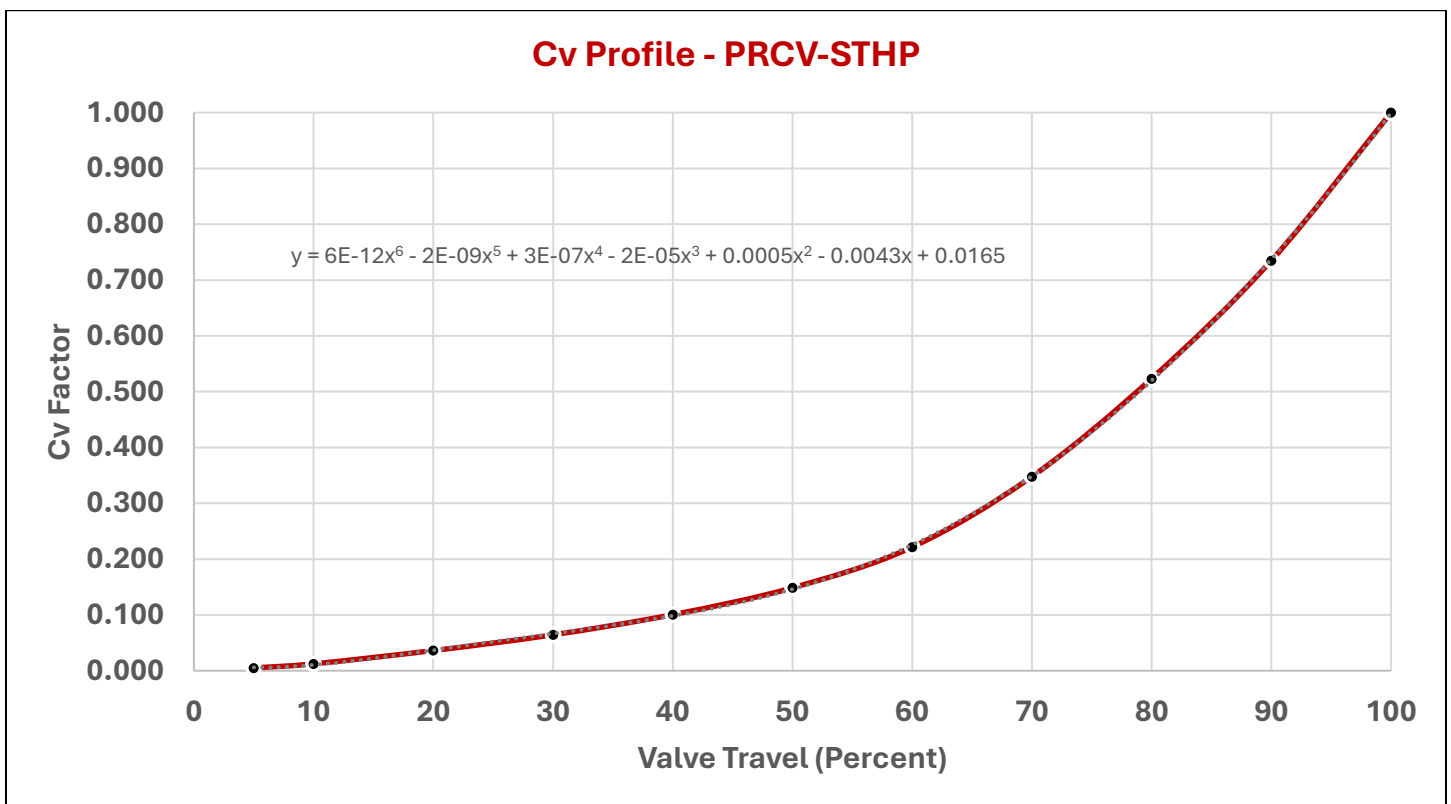
PIPELINE ROTARY CONTROL VALVES



CV PROFILE

PRCV-STHP	MIN	5	10	20	30	40	50	60	70	80	90	100
Cv Factor	0.005	0.005	0.0124	0.036	0.064	0.101	0.149	0.222	0.348	0.523	0.735	1.000
4	2	2	5	14	25	39	57	86	135	202	284	387
6	4	4	11	31	56	87	129	193	303	455	639	870
8	9	9	22	65	116	181	267	399	626	942	1322	1799
10	15	15	36	106	188	294	434	647	1016	1529	2146	2920
12	11	11	44	129	229	357	528	787	1236	1860	2612	3553
Xt	0.862	0.865	0.862	0.859	0.852	0.841	0.829	0.820	0.811	0.778	0.649	0.278
Fl	0.962	0.972	0.962	0.946	0.933	0.923	0.921	0.923	0.918	0.876	0.753	0.493

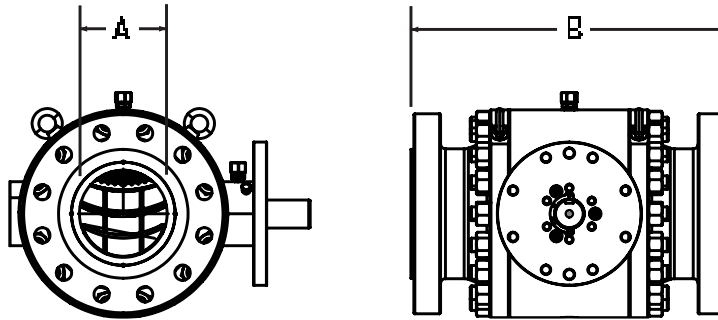
CV PROFILE – PRCV-STH5





PRCV-STHP

PIPELINE ROTARY CONTROL VALVES



PRCV-STH5 SERIES FACE TO FACE DIMENSIONS (RFFE)

A. SIZE (BORE)		B. 150 ANSI		B. 300 ANSI		B. 600 ANSI		B. 900 ANSI		B. 1500 ANSI	
In.	(mm)	In.	(mm)	In.	(mm)	In.	(mm)	In.	(mm)	In.	(mm)
4"	100	9	229	12	305	17	432	18	457	21.5	546
6"	150	15.5	394	15.875	403	22	559	24	610	27.75	705
8"	200	18	457	19.75	502	26	660	29	737	32.75	832
10"	250	21	533	22.375	568	31	787	33	838	39	991
12"	300	24	610	25.5	648	33	838	38	965	44.5	1130

PRCV-STH5 SERIES STANDARD WEIGHTS (RFFE) - VP PLATFORM

SIZE (BORE)		150 ANSI		300 ANSI		600 ANSI		900 ANSI		1500 ANSI	
In.	(mm)	Lbs.	Kg	Lbs.	Kg	Lbs.	Kg	Lbs.	Kg	Lbs.	Kg
4"	100	187	85	216	98	298	135	390	177	399	181
6"	150	395	179	437	198	613	278	794	360	1069	485
8"	200	573	260	750	340	1041	472	1411	640	1808	820
10"	250	1036	470	1168	530	1764	800	2359	1070	3439	1560
12"	300	1532	695	1720	780	2447	1110	3199	1451	5198	2358