



PRCV-STH5

PIPELINE ROTARY CONTROL VALVES



Size Range	6 in to 12 in
Max Noise Attenuation	25 dBA
Relative Capacity	High Capacity
Max Range-Ability	300:1
Shutoff	Class V

Design Standard	ASME B16.5 & B16.34 API 6FA / PED Compliant
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 5
Performance Trim Technology	Upstream Variable Diffuser Upstream Fixed 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	Exponential
Min Control Cv	0.33% Max Cv
Max Control Cv	80% Max Cv
Seats	1X Upstream Metal Seats Std 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 Seals	GRAPHITE
High Performance Trim	17-4PH SS OR INCONEL
Final Assembly and Test	ITALY
Country Origin	ITALY

8 - Applies to Type VP Platform



MIN OPERATING TEMPERATURE

VP -50 F STANDARD

MAX OPERATING TEMPERATURE TEMP DEFINED BY:
ASME B16.34 PRESSURE-TEMPERATURE RATINGS



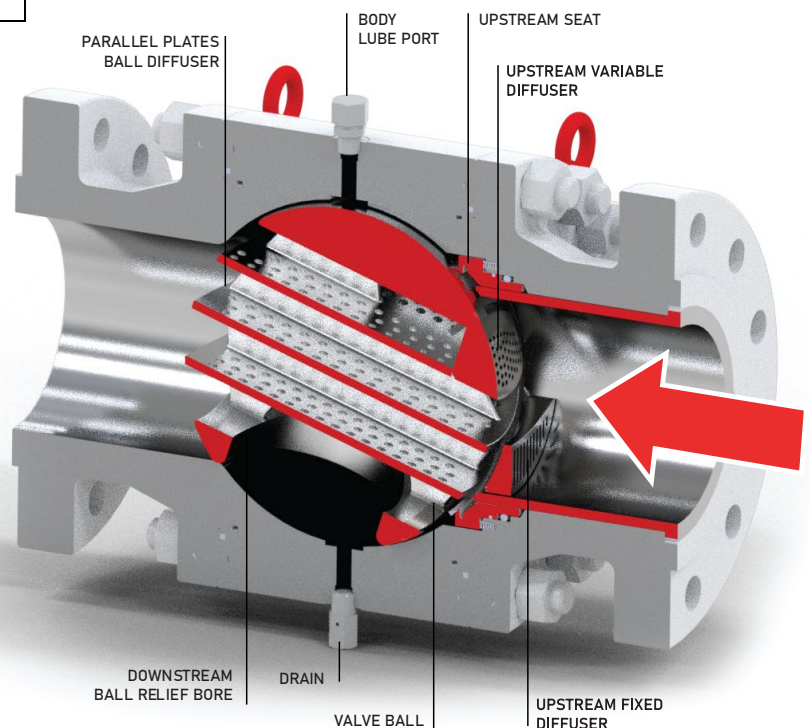
SIZE RANGE
6 into 12 in



MAX NOISE
ATTENUATION
25 dBA



MAX RANGE-ABILITY
300:1





PRCV-STH5

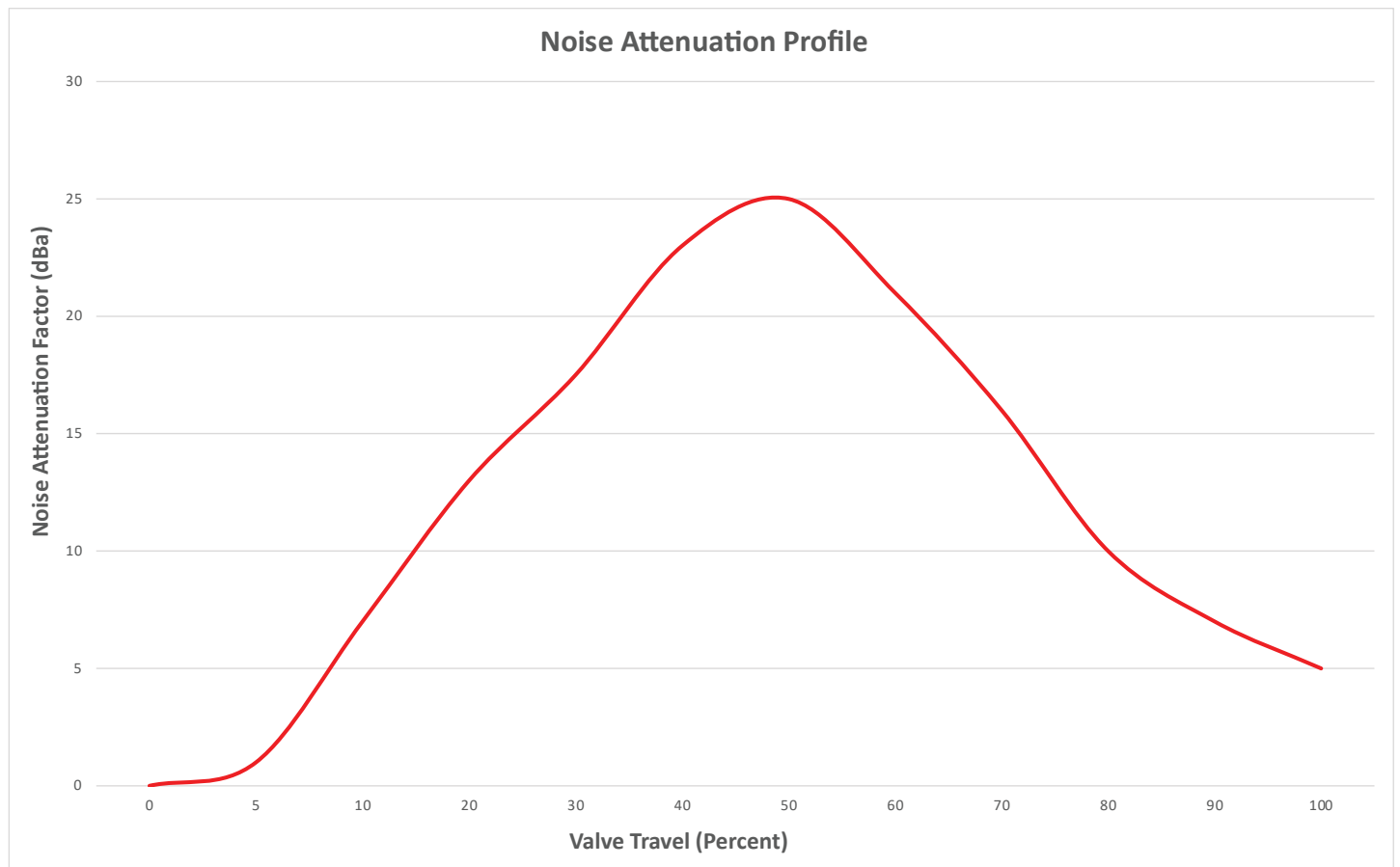
PIPELINE ROTARY CONTROL VALVES



NOISE ATTENUATION (DBA)

Percent Rotation	0	5	10	20	30	40	50	60	70	80	90	100
PRCV-STH5	0	1	7	13	17.5	23	25	21	16	10	7	5

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





PRCV-STH5

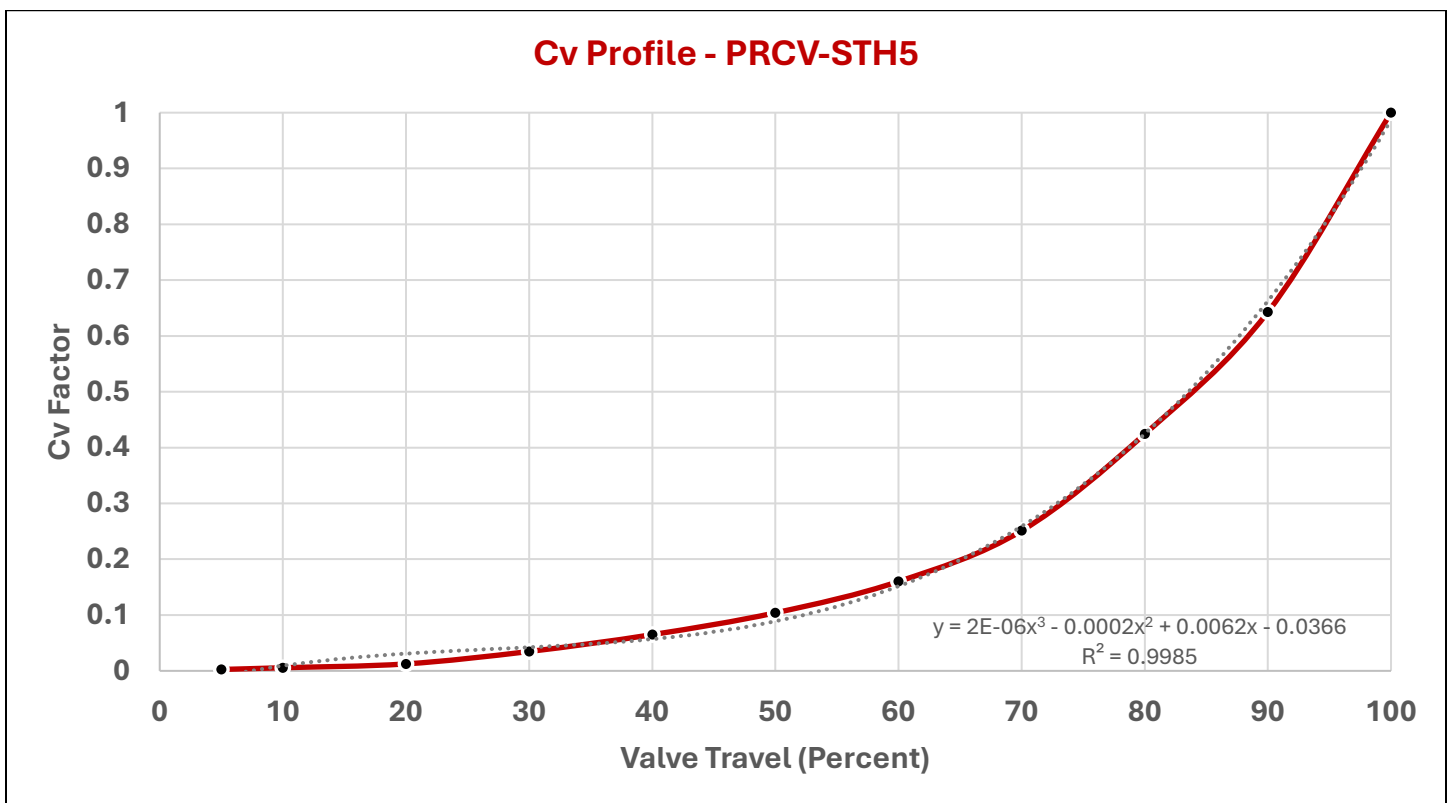
PIPELINE ROTARY CONTROL VALVES



CV PROFILE

PRCV-STH5	MIN	5	10	20	30	40	50	60	70	80	90	100
Cv Factor	0.003	0.003	0.006	0.012	0.035	0.065	0.104	0.160	0.251	0.424	0.643	1.000
6	1.6	1.6	3.5	7.8	21.9	40.9	65.5	100.9	158.1	267.3	405.0	630
8	3.3	3.3	7.3	16.2	45.2	84.6	135.5	208.6	327.1	552.8	837.7	1303
10	5.3	5.33	11.90	26.36	73.43	137.36	220.04	338.71	531.07	897.59	1360.18	2116
12	6.5	6.5	14.5	32.1	89.4	167.1	267.8	412.2	646.2	1092.3	1655.2	2575

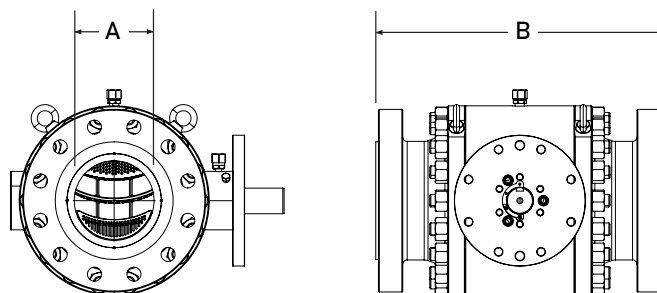
CV PROFILE – PRCV-STH5





PRCV-STH5

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)
6	150	15.5	394	15.875	403	22	559	24	610	28	711
8	200	18	457	19.75	502	26	660	29	737	32.75	832
10	250	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

PRCV-STH5 SERIES STANDARD WEIGHTS (RFFE) - 55, 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
6	150	397	180	442	200	556	252	737	334	1057	479
8	200	703	319	760	344	1032	468	1083	491	1523	691
10	250	895	406	1122	509	1294	587	2022	917	2475	1122
12	300	1440	653	1465	654	1965	891	2589	1175	3479	1578

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
6"	150	402	182	444	201	623	283	807	366	1087	493
8"	200	583	264	763	346	1059	480	1435	651	1838	834
10"	250	1053	478	1188	539	1794	813	2399	1088	3497	1586
12"	300	1558	707	1749	793	2488	1129	3253	1475	5286	2398