

Table 1.0 – PRCV Technical Specifications Summary

Technical Specifications	PRCV SERIES	FP	STH1	STH1L	STH2	STH2L	STH4	STH4L	STH5	STH6	STH6L	STHP	STHM
	Size Range	2 - 42 in	4 - 36 in	4 - 36 in	4 - 30 in	4 - 30 in	6 - 30 in	6 - 30 in	6 - 12 in	6 - 12 in	6 - 12 in	4 - 24 in	6 - 24 in
	Max Noise Attenuation	NA	7 dBA	6 dBA	15 dBA	13 dBA	27 dBA	26 dBA	25 dBA	27 dBA	26 dBA	25 dBA	15 dBA
	Relative Capacity	MAX	VERY HIGH	VERY HIGH	VERY HIGH	VERY HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	VERY HIGH
	Turndown	100:1	300:1	200:1	300:1	200:1	300:1	200:1	300:1	300:1	200:1	200:1	100:1
	Min Control Flow	1.0% Cv	0.33% Cv	0.50% Cv	0.33% Cv	0.50% Cv	0.33% Cv	0.50% Cv	0.33% Cv	0.33% Cv	0.50% Cv	0.50% Cv	1.0% Cv
	Max Control Flow	90% Cv	85% Cv	85% Cv	85% Cv	85% Cv	85% Cv	85% Cv	80%	85% Cv	85% Cv	80%	80%
	Max Open	100%	100%	100%	100%	100%	90%	90%	80%	90%	90%	80%	80%
	Max Exit Velocity Above Ground	720 fps	450 fps	450 fps	450 fps	450 fps	450 fps	450 fps	450 fps	450 fps	450 fps	450 fps	450 fps
	Max Exit Velocity Below Ground	720 fps	450 fps	450 fps	450 fps	450 fps	450 fps	450 fps	450 fps	450 fps	450 fps	450 fps	450 fps
	Max Exit Velocity Instantaneous	1000 fps	720 fps	720 fps	720 fps	720 fps	720 fps	720 fps	720 fps	720 fps	720 fps	720 fps	720 fps
	Shutoff Class	API 6D	CL V	CL V	CL IV	CL IV	CL IV	CL IV	CL V	CL V	CL V	CL V	CL IV
	Max Control DP (600 ANSI)	Full ANSI DP	1000 psid	1000 psid	1000 psid	1000 psid	1500 psid	1500 psid	1500 psid	1500 psid	1500 psid	1500 psid	1500 psid
	ENP Ball	STD	STD	STD	STD	STD	STD	STD				STD	STD
	TCC Ball				OPTION	OPTION			STD	STD	STD	OPTION	
	Soft Seat	STD	STD	STD	STD	STD	STD	STD	OPTION	STD	STD	OPTION	STD
	Metal Seat				OPTION	OPTION			STD	OPTION	OPTION	STD	
	Torque Rating	LEVEL 1	LEVEL 1	LEVEL 1	LEVEL 1	LEVEL 1	LEVEL 2	LEVEL 2	LEVEL 2	LEVEL 2	LEVEL 2	LEVEL 2	LEVEL 2

Table 2.0 – Recommended Applications Per PRCV Series

Application	PRCV SERIES	FP	STH1	STH1L	STH2	STH2L	STH4	STH4L	STH5	STH6	STH6L	STHP	STHM
	Pipeline Pressure Control												
	Full Open Monitor						DNU	DNU	DNU	DNU	DNU	DNU	DNU
	Flow Control												
	Below Ground												
	Power Plant Pressure Control												
	Compressor ASV												
	Compressor Recycle												
	Suction Control												

Notes:

- 1. "DNU" = Do Not Use for this application type

Table 3.0 – Available Size (in) & Pressure Ranges Per PRCV Series

Available Size (in) & Pressure Range	PRCV SERIES	FP	STH1	STH1L	STH2	STH2L	STH4	STH4L	STH5	STH6	STH6L	STHP	STHM
	2												
	3												
	4												
	6												
	8												
	10												
	12												
	16												
	20												
	24												
	30												
	36												
	42												
	150 ANSI	OPTION	OPTION	OPTION	OPTION	OPTION	OPTION	OPTION				OPTION	OPTION
	300 ANSI	OPTION	OPTION	OPTION	OPTION	OPTION	OPTION	OPTION				OPTION	OPTION
	600 ANSI	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD
	900 ANSI	OPTION	OPTION	OPTION	OPTION	OPTION	OPTION	OPTION				OPTION	OPTION
	1500 ANSI	OPTION	OPTION	OPTION	OPTION	OPTION	OPTION	OPTION				OPTION	OPTION

Table 4.0 – Applicable PRCV Trim Components Per PRCV Series

PRCV SERIES		FP	STH1	STH1L	STH2	STH2L	STH4	STH4L	STH5	STH6	STH6L	STHP	STHM
PRCV Component Application	Upstream Fixed Diffuser												
	Upstream Variable Diffuser												
	Parallel Ball Diffuser Plates												
	Downstream Ball Diffuser												
	Downstream Ball Relief												
	Downstream Variable Diffuser												
	Downstream Body Profile												
	Upstream DPE Seat												
	Downstream DPE Seat												

Table 5.0 – PRCV Platform Usage Per Series

PRCV Platform Usage	PRCV SERIES	FP	STH1	STH1L	STH2	STH2L	STH4	STH4L	STH5	STH6	STH6L	STHP	STHM
	1 - T31 PLATFORM	AVL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2 - T32 PLATFORM	AVL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3 - 54 PLATFORM	AVL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4 - 55 PLATFORM	ALT	ALT	ALT	ALT	ALT	ALT	ALT	NA	NA	NA	NA	NA
	5 - B5 PLATFORM	AVL	AVL	AVL	AVL	AVL	AVL	AVL	NA	NA	NA	NA	NA
	6 - PR PLATFORM	AVL	AVL	AVL	AVL	AVL	AVL	AVL	NA	NA	NA	NA	NA
	7 - WR PLATFORM	AVL	AVL	AVL	AVL	AVL	AVL	AVL	NA	NA	NA	NA	NA
	8 - VP PLATFORM	PREF	PREF	PREF	PREF	PREF	PREF	PREF	STD	STD	STD	STD	STD

PRCV Platform Usage - Legend

Designation	Name	Explanation
PREF	Preferred	Preferred platform for new designs; use as the first choice when applicable.
ALT	Alternate	Approved alternate platform; use when the preferred platform is not suitable or practical.
AVL	Available	Approved and technically viable platform but not normally selected ahead of Preferred or Alternate platforms.
STD	Standard	Established standard/default platform for the applicable PRCV Series.
NA	Not Applicable	Platform cannot be used for this Series because of design or configuration limitations.