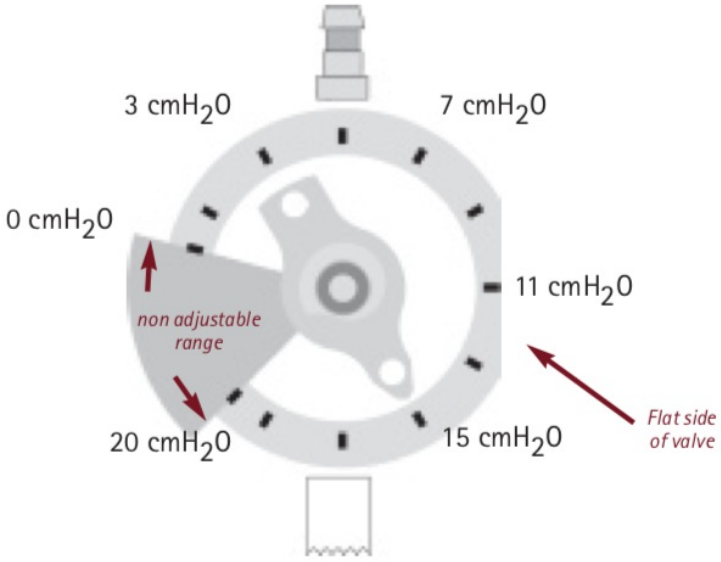
Ventricular Shunt Reference

Last Updated: April 17, 2021

The layout of this chapter is broken down by the manufacturer of the shunt, listed in alphabetical order. Images of each shunt valve on standard radiography are provided. Images showing the various shunt settings are also available for reference.

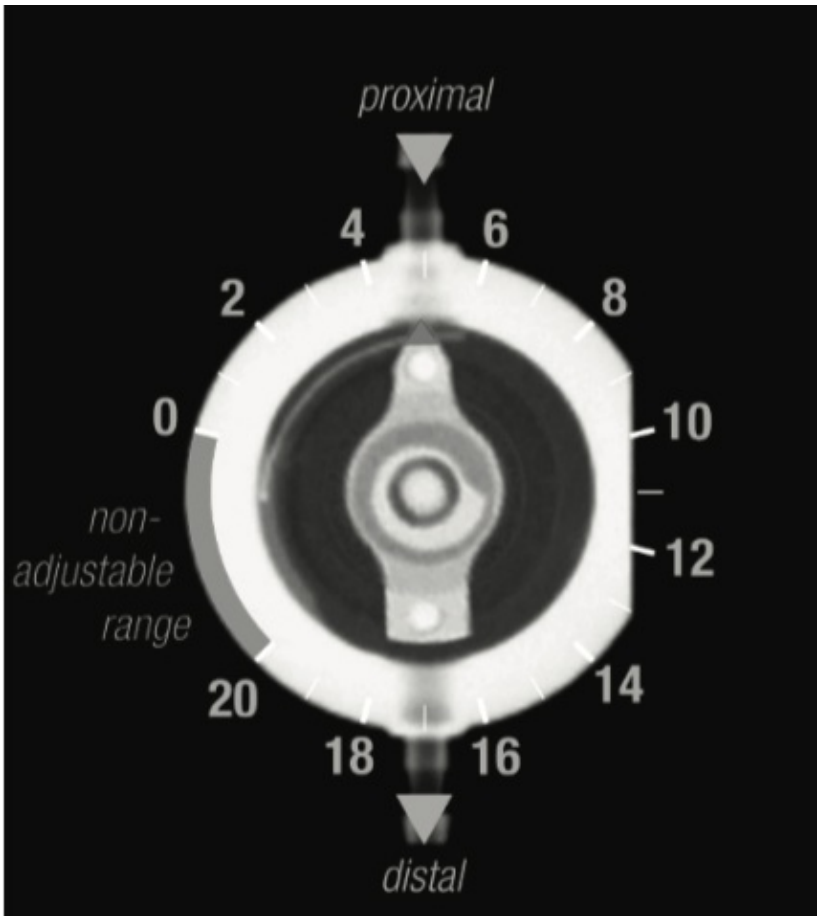
Aesculap

proGAV Valve



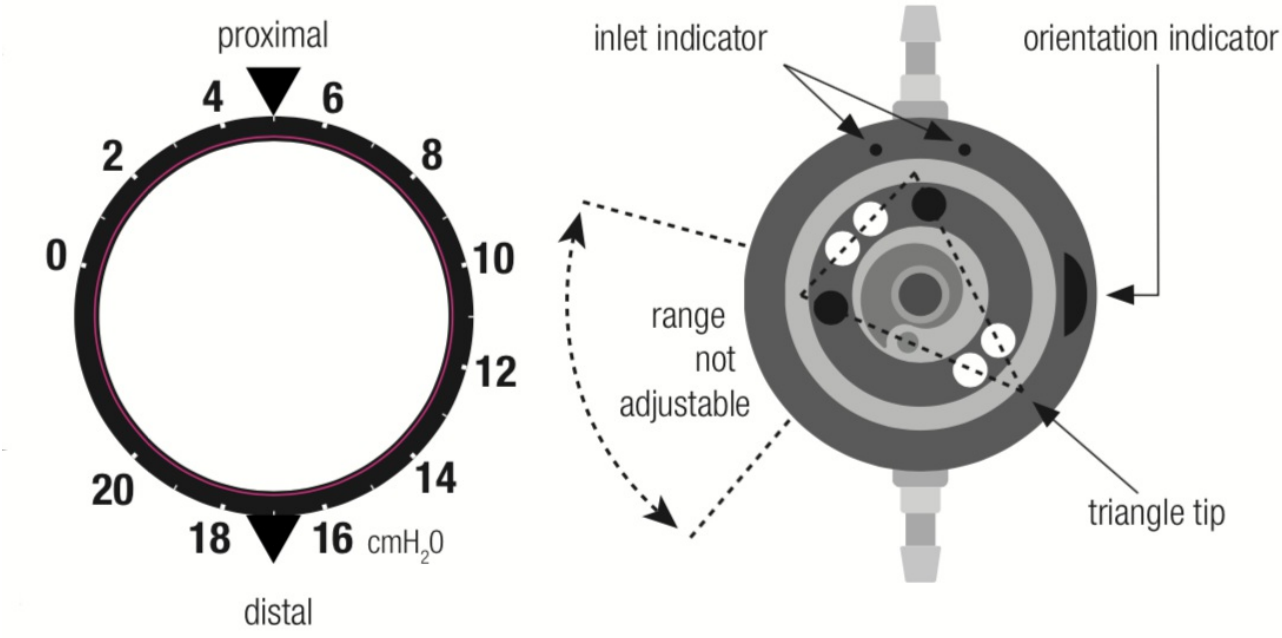
This proGAV valve is set at 15 cm H_2O.

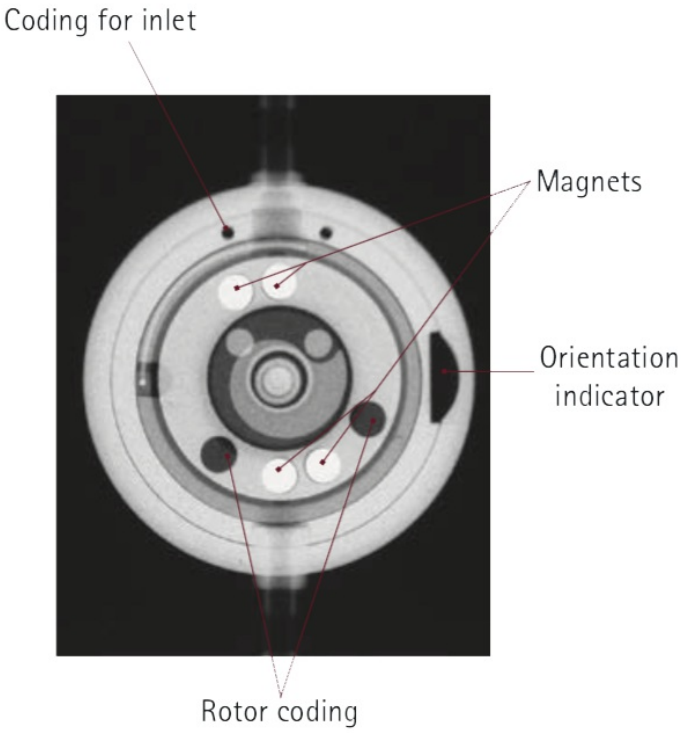
This proGAV valve is set at 11 cm H_2O.

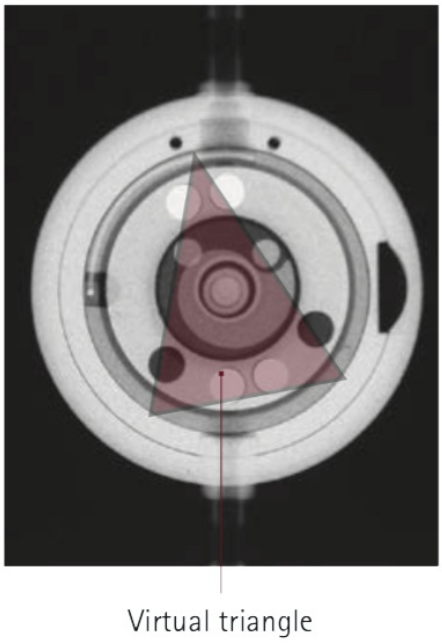


The valve settings for this unit numerically correspond to the associated opening pressure.

proGAV 2.0 Valve

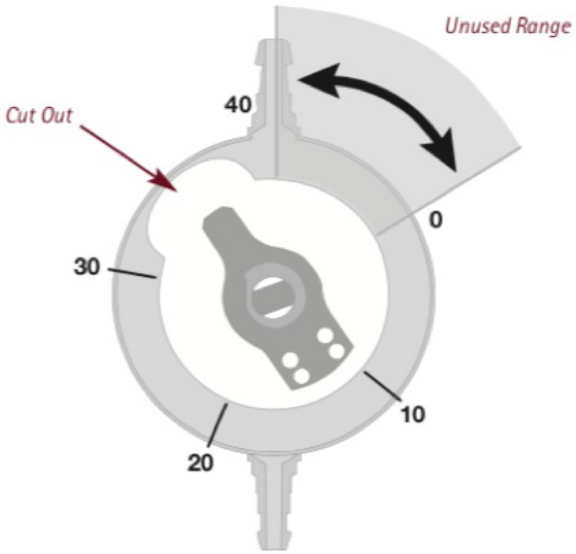






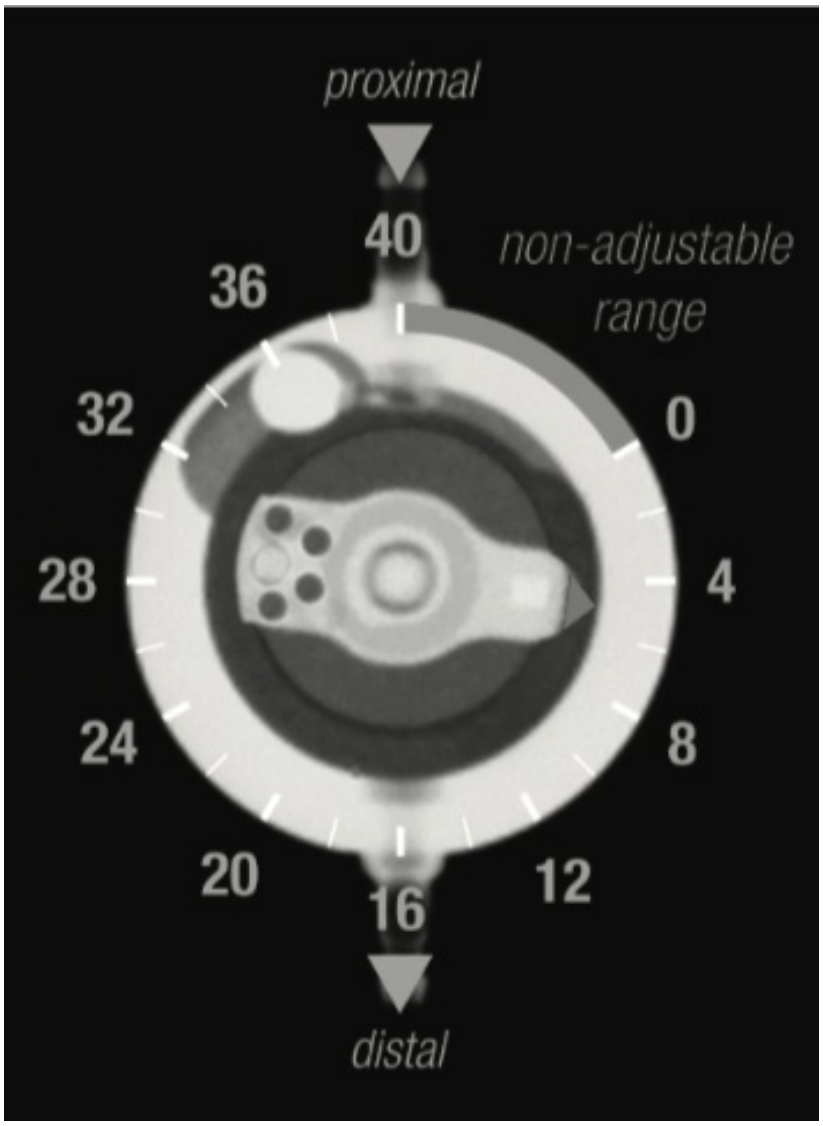
The valve settings for this unit numerically correspond to the associated opening pressure.

proSA Gravitational Unit



This proSA valve is set at 35 cm H_2O.

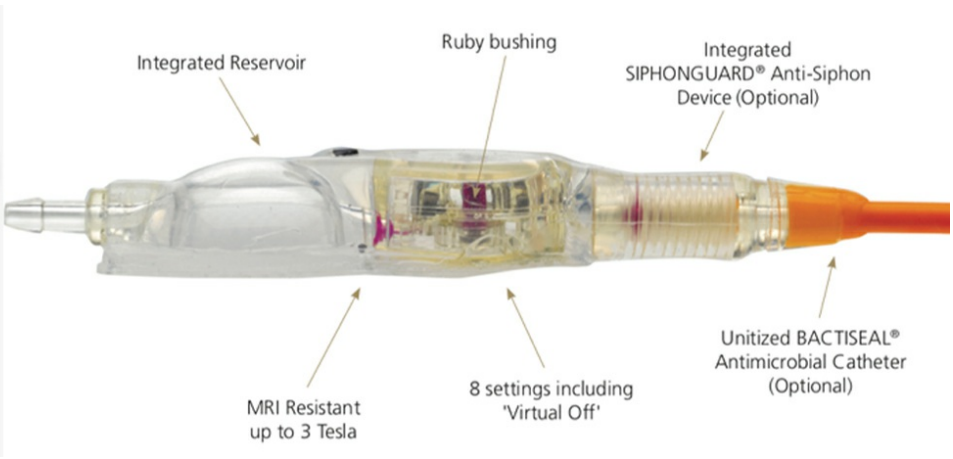
This proSA valve is set at 31 cm H_2O.

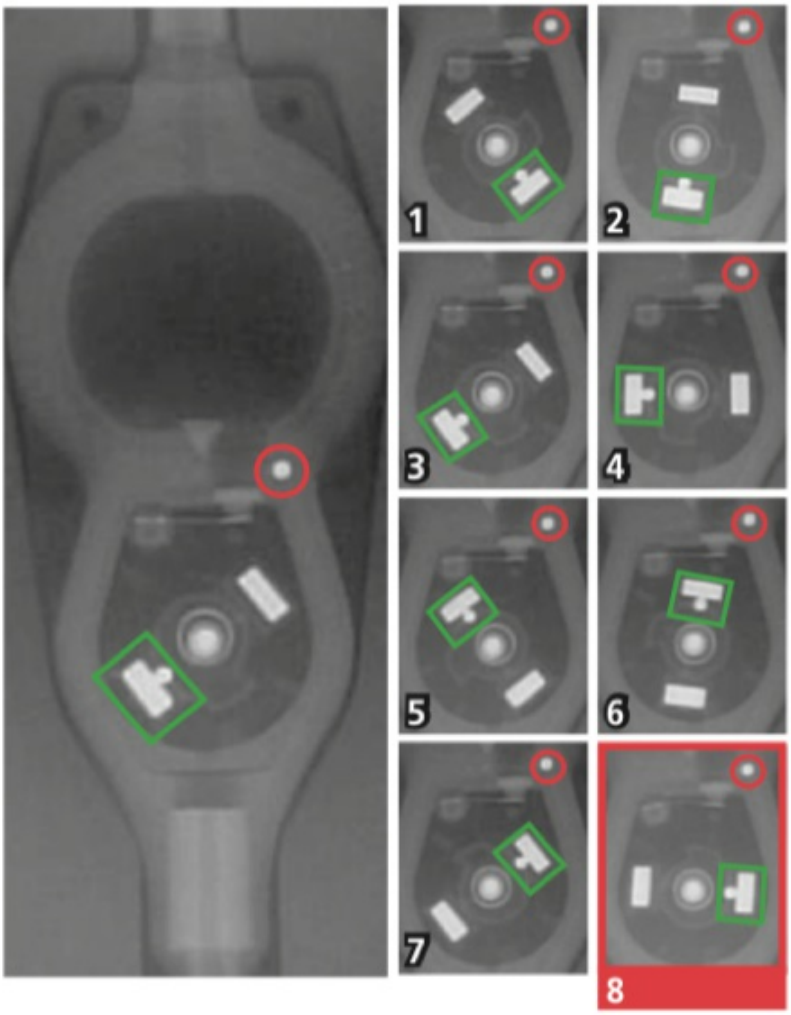


The valve settings for this unit numerically correspond to the associated opening pressure when not combined with a differential pressure unit in the shunt system.

Codman

Certas Plus Valve



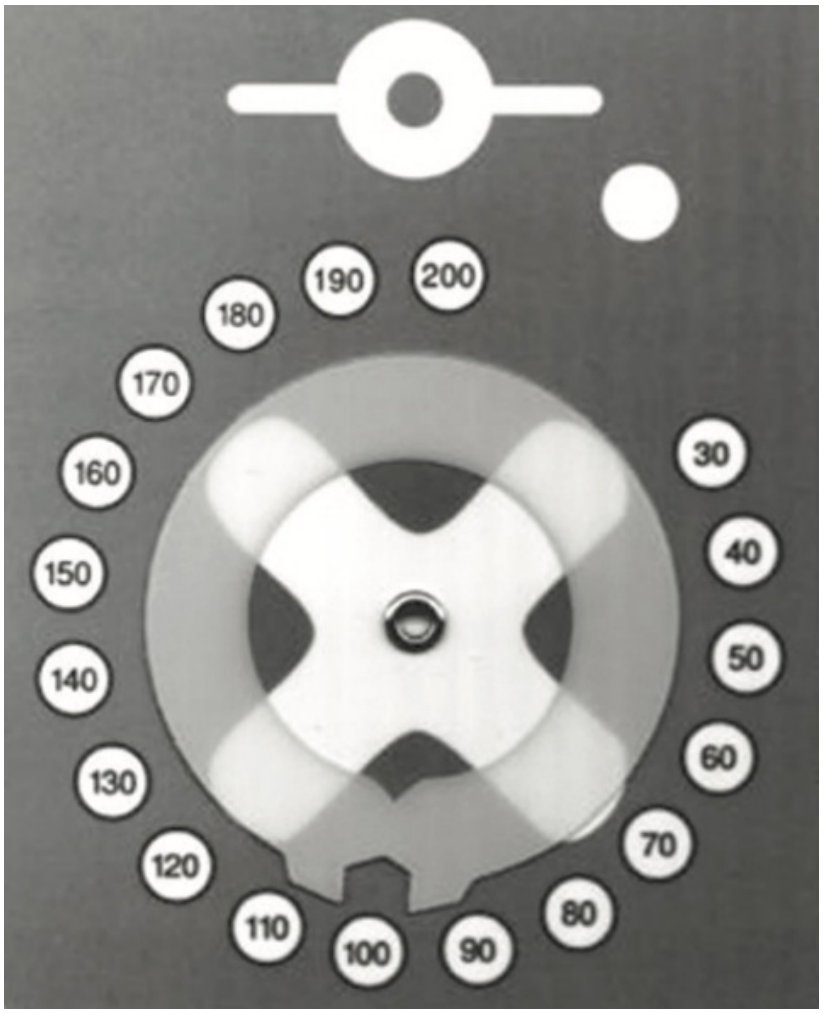


Valve Settings and Corresponding Opening Pressure

Valve Setting	Opening Pressure Setting (cm H_2O)
1	2.0–2.5
2	4.4–5.5
3	7.5–8.0
4	11–12
5	14–14.5
6	17–18
7	21–22.5

8	>40

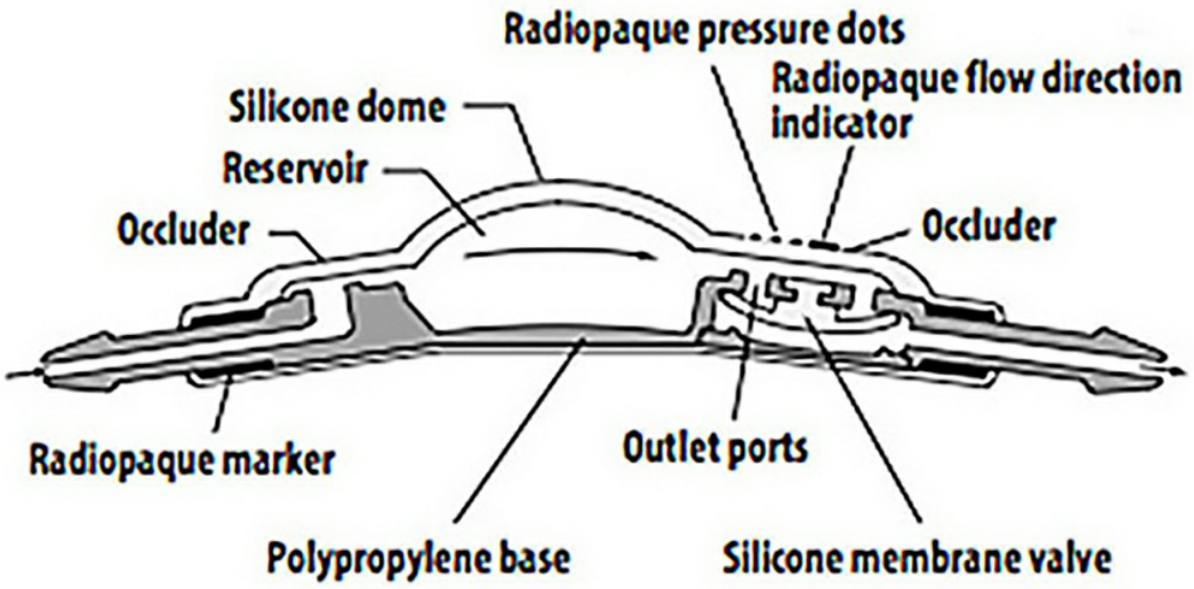
Hakim Programmable Valve

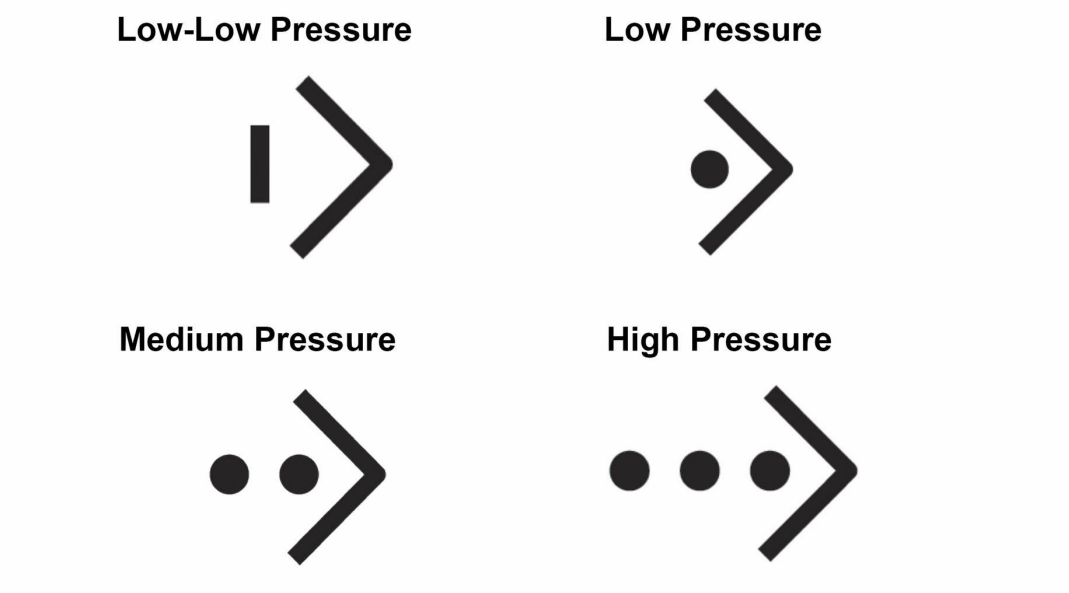


The valve settings for this unit numerically correspond to the associated opening pressure.

Medtronic

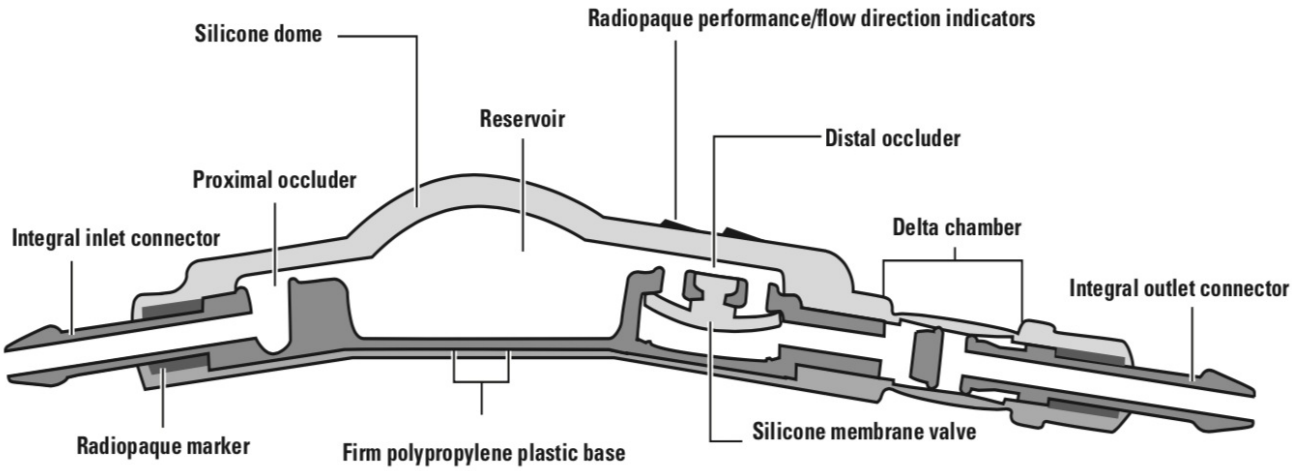
PS Medical CSF-Flow Control Valve

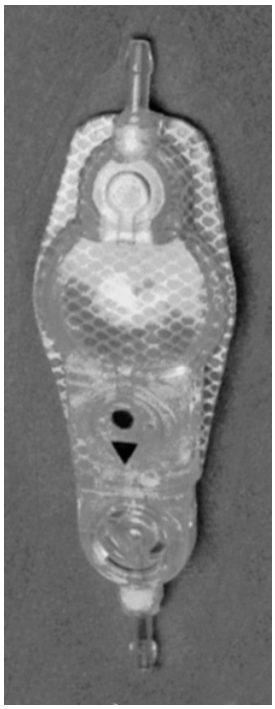


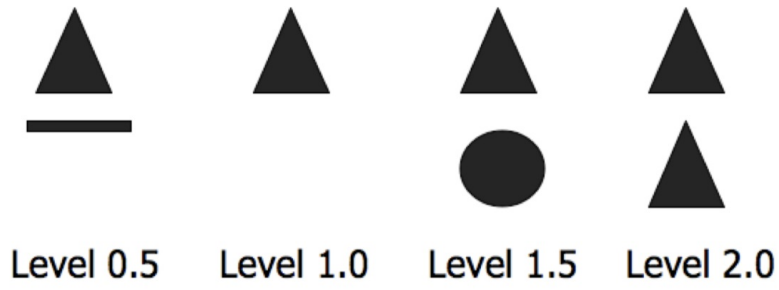


Valve Settings and Corresponding Opening Pressure	
Valve Setting	**Opening Pressure Setting (cm H_2O)**
Low-Low Pressure	1
Low Pressure	3
Medium Pressure	8.5
High Pressure	14.5

Delta Valve





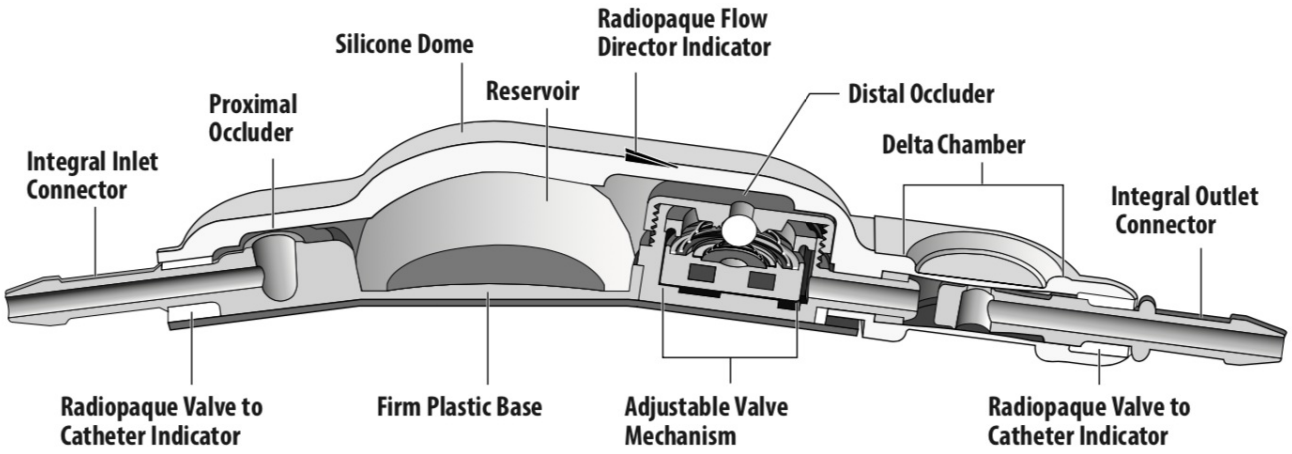


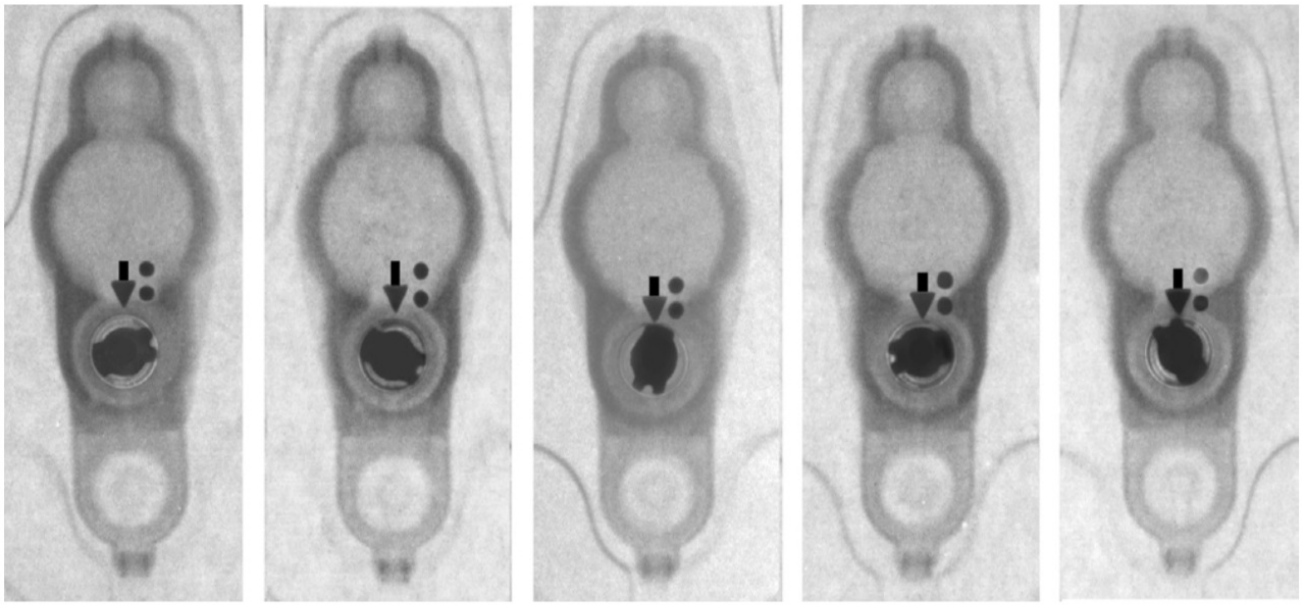
Valve Settings and Corresponding Opening Pressure

Valve Setting	Opening Pressure (cm H_2O)	
	Lying	Standing
0.5	1.5	3.0
1.0	3.5	5.0

1.5	7.0	8.5
2.0	10.5	12.0

Strata II Valve



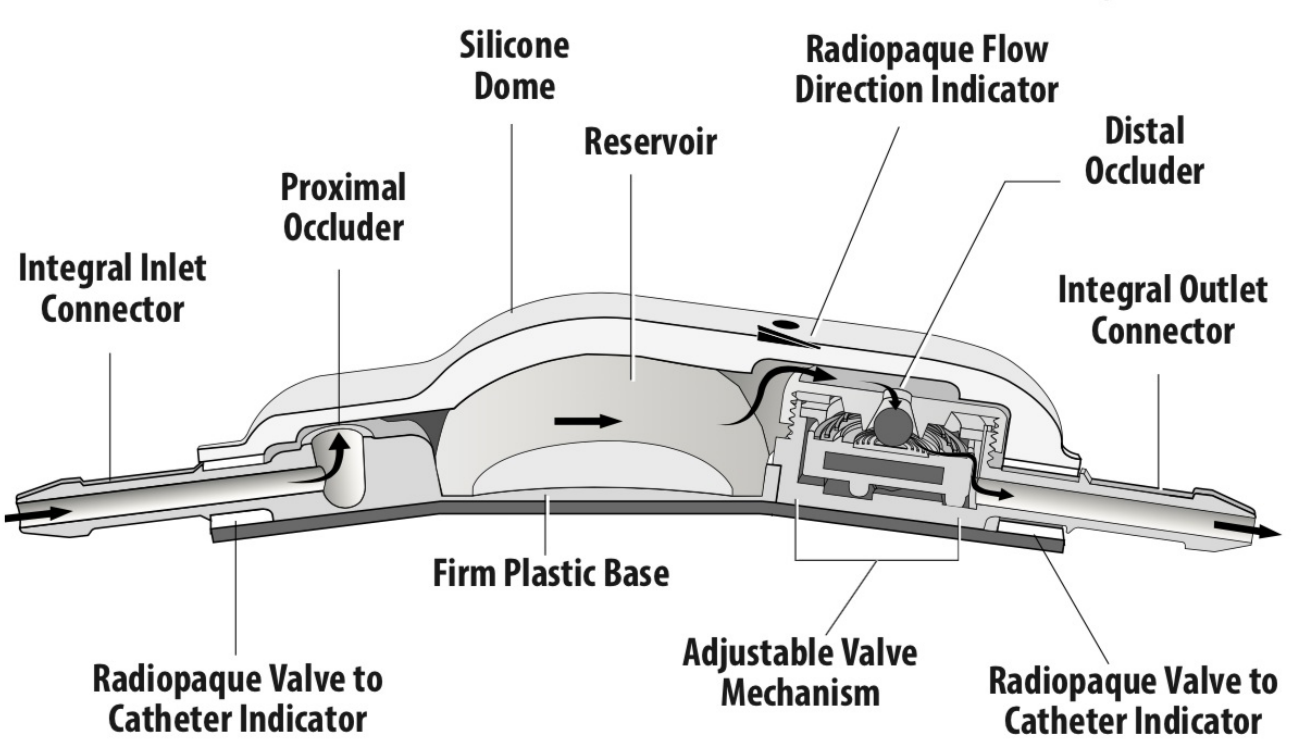


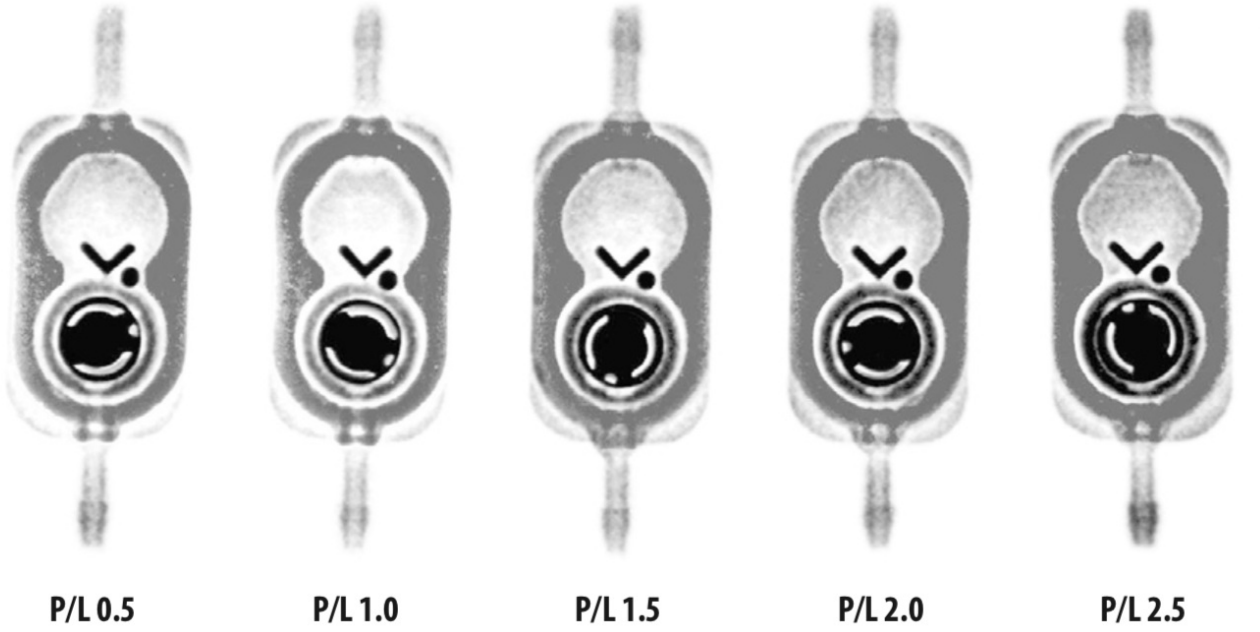
P/L 0.5 P/L 1.0 P/L 1.5 P/L 2.0 P/L 2.5

Valve Settings and Corresponding Opening Pressure		
Valve Setting	Opening Pressure (cm H_2O)	
	Lying	Standing
0.5	1.5	3.0
1.0	3.5	5.0
1.5	7.0	8.5

2.0	10.5	12.0
2.5	13.5	14.7

Strata NSC Valve

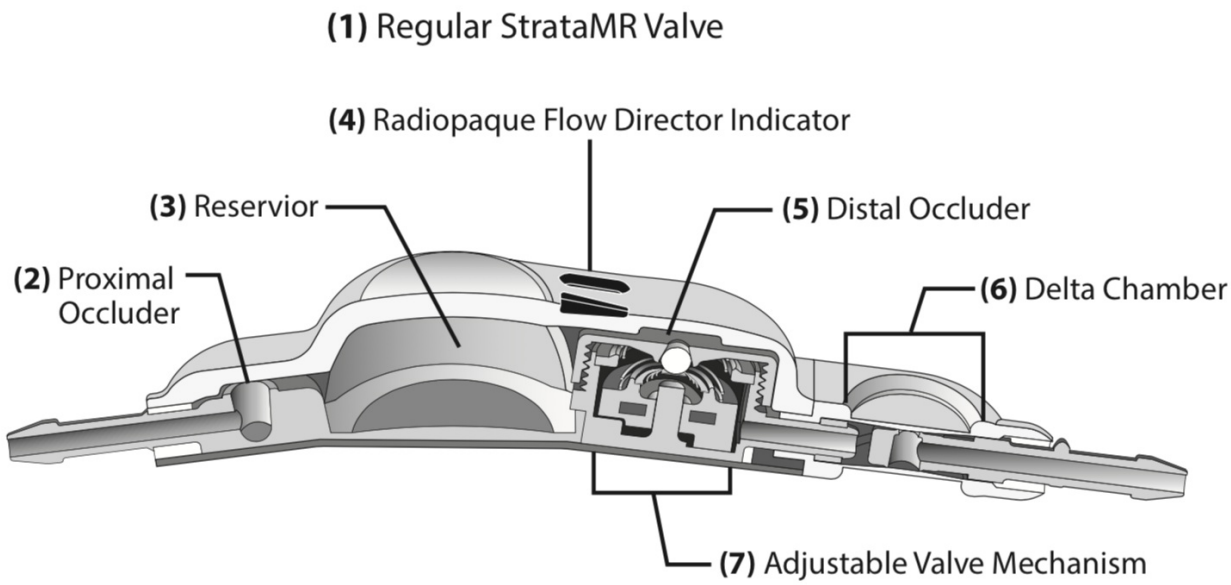


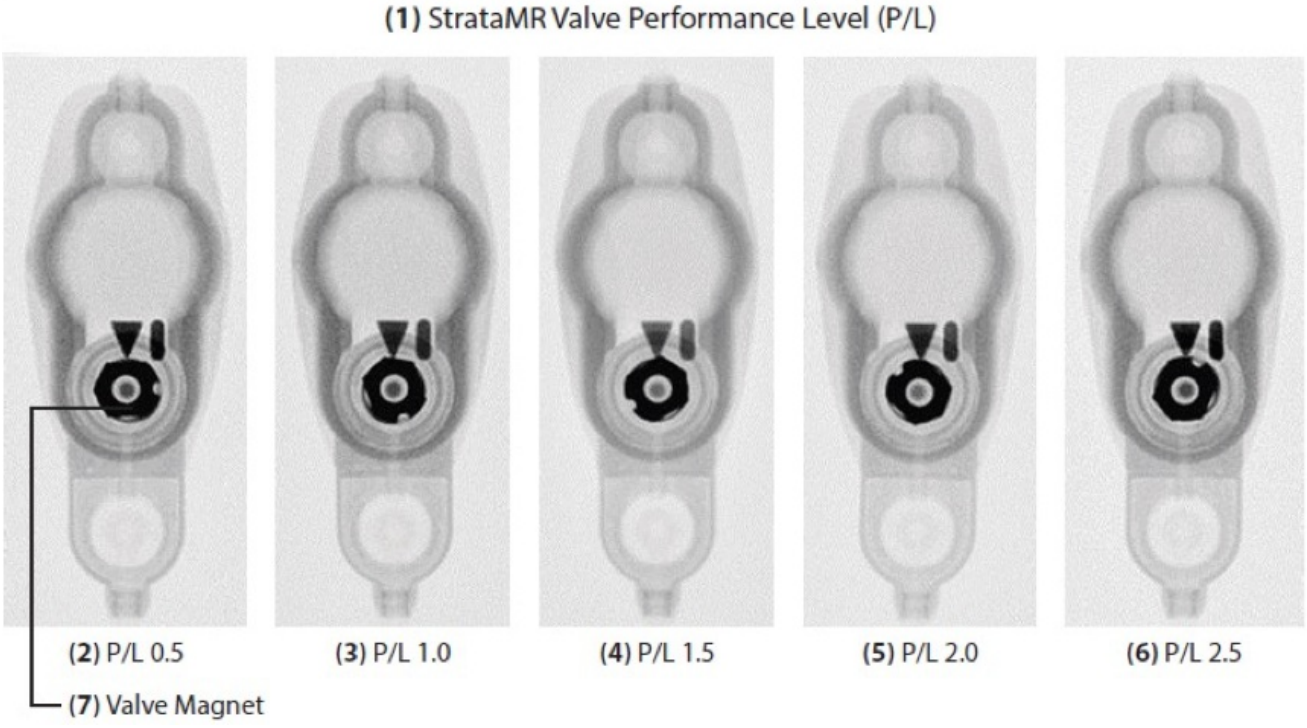


Valve Setting and Corresponding Opening Pressure	
Valve Setting	Opening Pressure (cm H_2O)
0.5	1.5

1.0	3.5
1.5	9.0
2.0	14.5
2.5	20.0

Strata MR Valve



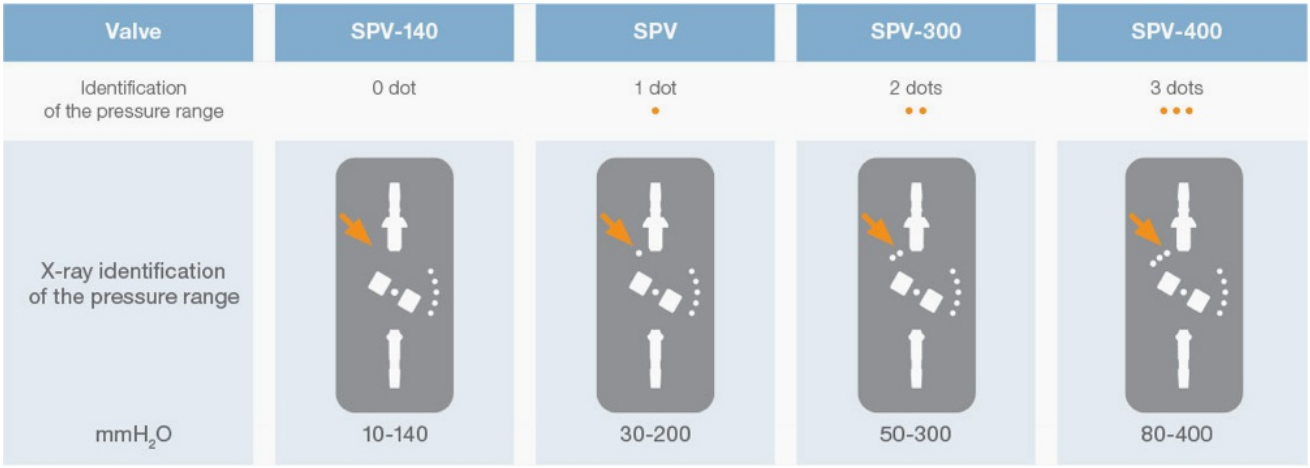


Valve Setting and Corresponding Opening Pressure	
Valve Setting	**Opening Pressure (cm H_2O)**

0.5	1.5
1.0	3.5
1.5	9.0
2.0	14.5

Sophysa

Polaris Valve



Pressure Ranges for 4 Polaris Models					
Models		SPV-140	SPV	SPV-300	SPV-400
Pressure Setting Dots ($mm\ H_2O$)	Position 1	10	30	50	80
	Position 2	40	70	100	150
	Position 3	80	110	150	230
	Position 4	110	150	220	330
	Position 5	140	200	300	400

For additional examples of the appearance of a variety of shunt valves on imaging, please see "Imaging Appearances of Programmable Ventricular Shunt Systems: What the Radiologist Needs To Know."

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