

Adjustable Orifice Plate Control Valve for Water (other media available on request)



Model 1090 - Manufactured for placement between ANSI Flange

Adjustable Orifice Plate Valve, 316 stainless steel, for max operating pressure of 250 PSI (16 Bar)



Type	Size Inch/mm	Maximum Pressure PSI/Bar	Body Material	Overall Width b Inch/mm	Overall Diameter d Inch/mm	Top to Center h Inch/mm	Weight lbs./kg
ANSI Flange	1.5" 40 mm	250 PSI 16 Bar	Stainless Steel	0.7" 18 mm	3.54" 90 mm	4.05" 102.5 mm	1.85 lbs. 0.837 kg
ANSI Flange	2" 50 mm	250 PSI 16 Bar	Stainless Steel	0.7" 18 mm	4.15" 105 mm	4.35" 110 mm	2.46 lbs. 1.114 kg
ANSI Flange	2.5" 65 mm	250 PSI 16 Bar	Stainless Steel	0.7" 18 mm	5" 125 mm	4.74" 120 mm	3.37 lbs. 1.527 kg
ANSI Flange	3" 80 mm	250 PSI 16 Bar	Stainless Steel	0.7" 18 mm	5.55" 140 mm	5.04" 128 mm	4.03 lbs. 1.827 kg
ANSI Flange	4" 100 mm	250 PSI 16 Bar	Stainless Steel	0.7" 18 mm	6.32" 160 mm	5.45" 138.5 mm	4.73 lbs. 2.147 kg
ANSI Flange	5" 125 mm	250 PSI 16 Bar	Stainless Steel	0.9" 23 mm	7.5" 190 mm	6.07" 154 mm	8.23 lbs. 3.734 kg
ANSI Flange	6" 150 mm	250 PSI 16 Bar	Stainless Steel	0.9" 23 mm	8.32" 210 mm	6.79" 172.5 mm	9.23 lbs. 4.185 kg
ANSI Flange	8" 200 mm	145 PSI 10 Bar	Stainless Steel	0.9" 23 mm	10.5" 265 mm	8" 204 mm	13.55 lbs. 6.145 kg
ANSI Flange	8" 200 mm	250 PSI 16 Bar	Stainless Steel	0.9" 23 mm	10.5" 265 mm	8" 200 mm	13.96 lbs. 6.334 kg

Functions:

Adjustable orifice plate valve for water applications (other media available on request). Static throttle element for adjusting a constant flow rate. The orifice plate can be used after valves as a back pressure orifice for cavitation protection. The aperture is between the flange's built-in. The pressure conditions or the flow rates can be changed by turning the slide plate. Diameter Range: 1.5" – 8" (40mm – 200mm). Maximum Operating Pressure: 250 PSI (16 Bar). Orifice plate cannot be used as a shut-off valve.

Features:

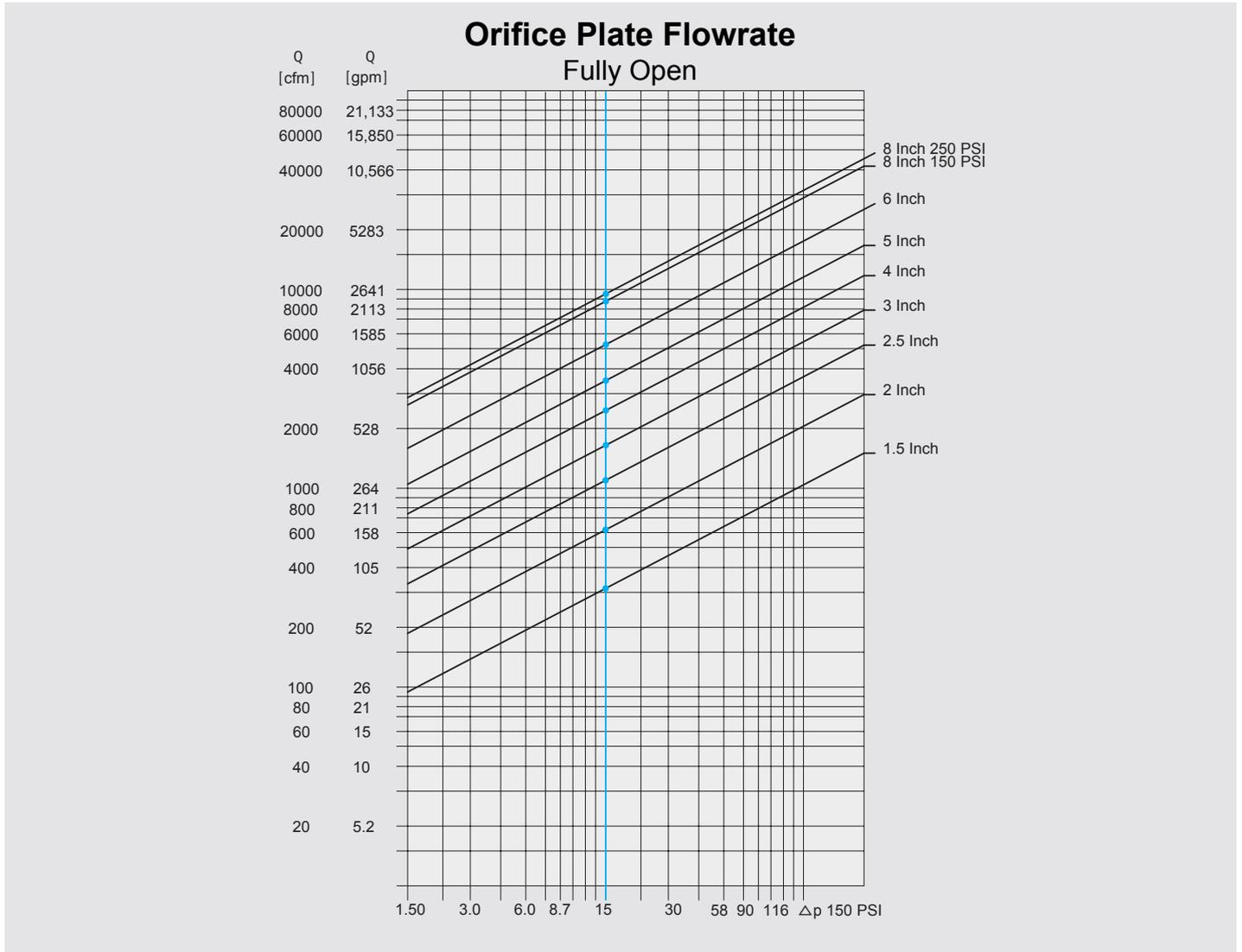
Ability to adjust orifice plate in installed state by simply turning the slider plate with the adjusting tool. Static choke element for setting up a constant flow rate. Maintenance free and corrosion-resistant.

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Inch	Cv gpm 1psi pressure drop	Flow Rate gpm Δp 15psi				
1.5"	22	83				
2"	42	161				
2.5"	75	285				
3"	116	445				
4"	176	672				
5"	248	949				
6"	373	1425				
8" (150 PSI)	616	2347				
8" (250 PSI)	650	2475				