

DP Flow Selection Guide

	Application					Maximum Temp	Flange Rating	Pressure Loss	Required Upstream Pipe Diameter	Flow Range-ability	Line Size Avail-	Volumetric Accuracy	Mass Accuracy	
	Clean Liquid	Dirty Liquid	Viscous Liquid	Slurry	Gas or Steam									
Differential Pressure Flowmeters (includes primary element)	3051SFA ProBar® (includes 485 Annubar)	Ideal	Not Suitable	Not Suitable	Not Suitable	Ideal ⁽¹⁾	500 °F (260 °C) ⁽²⁾	600# ANSI ⁽³⁾	Low	8 – 30 D	8:1	2 – 72-in. (50 to 1820 mm)	Liquid • ±0.9% of rate Gas/Steam • ±1.4% of rate ⁽⁴⁾	Not Applicable
	3095MFA Mass ProBar® (includes 485 Annubar)	Ideal	Not Suitable	Not Suitable	Not Suitable	Ideal	500 °F (260 °C) ⁽²⁾	600# ANSI ⁽³⁾ DIN, PN 100	Low	8 – 30 D	8:1	2 – 72-in. (50 to 1820 mm)	Not Applicable	1.0% of rate ⁽⁵⁾
	ProPlate® (includes 1195 Integral Orifice)	Ideal	Suitable	Suitable	Not Suitable	Ideal ⁽¹⁾	450 °F (232 °C) ⁽²⁾	600# ANSI ⁽³⁾ DIN, PN 100	Medium	10 – 30 D	8:1	1/2 – 1 1/2-in. (15 to 45 mm)	Discharge Coefficient • ±0.75%	Not Applicable
	Mass ProPlate® (includes 1195 Integral Orifice)	Ideal	Suitable	Suitable	Not Suitable	Ideal	450 °F (232 °C) ⁽²⁾	600# ANSI ⁽³⁾ DIN, PN 100	Medium	10 – 30 D	8:1	1/2 – 1 1/2-in. (15 to 45 mm)	Not Applicable	1.0% of rate ⁽⁵⁾
405P Compact Orifice	Ideal	Suitable	Suitable	Not Suitable	Ideal ⁽¹⁾	450 °F (232 °C) ⁽²⁾	600# ANSI DIN, PN 100	Medium	10 – 30 D	8:1	1/2 – 4-in. (15 to 100 mm)	Flow Coefficient Uncertainty 2- to 4-in. (DN 50to 100) ⁽⁶⁾ • ±1.25%	Not Applicable	
	1495 Orifice Plate	Ideal	Suitable	Suitable	Not Suitable	Ideal ⁽¹⁾	700 °F (371 °C) ⁽⁷⁾	2500# ANSI	Medium	10 – 30 D	8:1	2 – 24-in. (50 to 600 mm)	Discharge Coefficient • ±0.6%	Not Applicable

- (1) Compensation for pressure and temperature variation recommended.
 (2) A higher temperature limit is available through a remote mounting transmitter.
 (3) Higher pressure rating is available — contact Rosemount Inc.
 (4) Assumes that the density uncertainty is 2.2%, measured pipe inner diameter, and that electronics are trimmed for optimum accuracy.
 (5) Assumes that the density uncertainty is 0.1%, measured pipe inner diameter, and that electronics are trimmed for optimum accuracy.
 (6) For 1 to 1 1/2-in. (DN 30 to 40) = 1.75%; For 1/2-in. (DN 15) = 2.25%.
 (7) Transmitter mounting configuration impacts maximum temperature.



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