

Inlet Ring Part Numbers

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Find the proper instrumented inlet ring P/N based on the impeller size and type (e.g., 3D EC). Choose the P/N for either the inlet ring with a single pressure tap or for the version with multiple taps connected in a piezometer ring. In cases where there are multiple listings for a single impeller size, please discuss the choice of the correct inlet ring with an ebm-papst applications engineer.

Inlet Rings 					
Size (mm)	Impeller & fan type	Part no. w/o pressure tap (for dimensional reference only)	Part no. with 1 pressure tap	Part no. with piezometer ring	k-value
250	2D AC/EC	96359-2-4013	25002-2-4013	25001-2-4013	69
250	2D EC	25020-2-4013	25040-2-4013	25030-2-4013	67
250	2D EC + airfoil	25070-2-4013	25075-2-4013	25080-2-4013	70
280	2D AC/EC	96360-2-4013	28002-2-4013	28001-2-4013	88
280	2D EC	28020-2-4013	28040-2-4013	28030-2-4013	87
280	2D EC + airfoil	28070-2-4013	28075-2-4013	28080-2-4013	93
310	3D AC/EC	31050-2-4013	31100-2-4013	31080-2-4013	120
310	3D AC/EC	31051-2-4013	31110-2-4013	31090-2-4013⁽¹⁾	103
310	2D EC	31020-2-4013	31060-2-4013	31040-2-4013	108
310	2D EC	31570-2-4013	31575-2-4013	31580-2-4013	116
310	airfoil	31470-2-4013	31475-2-4013	—	116
355	3D AC/EC	35560-2-4013	35600-2-4013	35580-2-4013	155
355	3D AC/EC	35561-2-4013	35610-2-4013⁽¹⁾	35590-2-4013⁽¹⁾	138
355	2D EC	35520-2-4013	35540-2-4013	35530-2-4013	141
355	2D EC + airfoil	35670-2-4013	35675-2-4013	35680-2-4013	148
400	3D AC/EC + 2D AC	54476-2-4013	54515-2-4013	54500-2-4013	183
400	2D EC	40020-2-4013	40040-2-4013	40030-2-4013	161
400	2D EC + airfoil	40070-2-4013	40075-2-4013	40080-2-4013	188
450	2D AC/EC	54478-2-4013	54514-2-4013	54510-2-4013	217
450	3D AC/EC	63045-2-4013	64015-2-4013	64005-2-4013	214
450	2D EC	45020-2-4013	45040-2-4013	45030-2-4013	225
450	2D EC + airfoil	45070-2-4013	45075-2-4013	45080-2-4013	240
500	2D EC	54480-2-4013	54518-2-4013	54516-2-4013	265
500	2D EC + 3D AC/EC + airfoil	63072-2-4013	64025-2-4013	64002-2-4013	281
560	2D EC + 3D AC/EC + airfoil	63071-2-4013	64030-2-4013	64001-2-4013	348
630	3D AC/EC + airfoil	63070-2-4013	64040-2-4013	64000-2-4013	438
710	3D AC/EC + airfoil	71070-2-4013	71075-2-4013	71080-2-4013	545

Note: Subject to alterations. ⁽¹⁾ Short inlet ring.

Instrumented Inlet Rings

Select Pressure Transducer Range

It's important to the accuracy of the flow measurement to select a differential pressure transducer (DPT) with a range appropriate to the expected pressure differential. It's best to choose a DPT with a range that exceeds the maximum expected pressure differential by a small safety margin. Excessive range will impact the flow measurement accuracy because the DPT accuracy is typically specified as a percent of full scale.

To find the proper pressure transducer range:

- Determine the maximum CFM flow rate expected from the fan over its operating range as installed in the application. If this info isn't available, use the free airflow as provided in the fan specification.
- Use Chart 1 to find the pressure differential in inches w.g. for given flow and impeller size.
- Select a differential pressure transducer with an appropriate range based on the pressure differential determined in step 2.

Chart 1 - Pressure Differential vs Air Flow for Available Impeller Sizes

