



FILTER COMPARISONS



TORO FILTER

Part #	108-3841
Average Retail Price	\$6.38
Overall length	3.47"
Overall Diameter	2.93"
Cartridge Length	2.235"
Cartridge Outside Diameter	2.655"
Cartridge inside Diameter	1.400"
Cartridge Pleats	43
Cartridge End Cap Type	Stamped steel with bypass valve in rear cartridge cap
Anti-Drain back Valve Type	Nitrile Rubber Diaphragm
Bypass Valve Type	Spring-Loaded All Steel-20 psi
Center Tube	Steel Spiral Wound Louvered Center Tube-glued to end caps
Spring Under Cartridge	.105" Steel Coil Spring Wire & Spring Diameter 1.15"
Element Type	Cellulose Media, stamped metal seam
Element Length	53.0"
Element Width	1.79"
Element Surface Area	95.06 square inches
Element Thickness	.035"
Housing Thickness	.015"
Gasket Type	Nitrile Rubber
Inlet Hole Pattern	7 holes .250" diameter round
Micron Rating	23



NAPA GOLD FILTER

Part #	1356
Average Retail Price	\$7.49
Overall length	3.40"
Overall Diameter	2.685"
Cartridge Length	2.192"
Cartridge Outside Diameter	2.315"
Cartridge inside Diameter	1.450"
Cartridge Pleats	38
Cartridge End Cap Type	Stamped Steel with bypass valve in front of cartridge
Anti-Drain back Valve Type	Silicon Rubber Diaphragm
Bypass Valve Type	Spring Loaded Steel with Nitrile Seal - 8-11psi
Center Tube	Steel Spiral Lock Seam Center Tube-glued to end caps
Spring Under Cartridge	.090" Steel Coil Spring Wire & Spring Diameter .945"
Element Type	Paper Media, Glued Seam
Element Length	33.25"
Element Width	1.65"
Element Surface Area	54.86 square inches
Element Thickness	.030"
Housing Thickness	.015"
Gasket Type	Nitrile Rubber
Inlet Hole Pattern	8 holes .250" diameter round
Micron Rating	21



FRAM FILTER

Part #	PH7317
Average Retail Price	\$4.99
Overall length	3.47"
Overall Diameter	2.69"
Cartridge Length	2.45"
Cartridge Outside Diameter	2.36"
Cartridge inside Diameter	1.175"
Cartridge Pleats	38
Cartridge End Cap Type	Cardboard
Anti-Drain back Valve Type	Nitrile Rubber Diaphragm
Bypass Valve Type	Spring-Loaded Plastic-13 psi
Center Tube	Steel Straight Lock Seam Center Tube-not glued to end caps
Spring Under Cartridge	No coil Spring- leaf style spring
Element Type	Cellulose and glass-stamped metal seam
Element Length	43.5"
Element Width	2.3"
Element Surface Area	100.05 square inches
Element Thickness	.030"
Housing Thickness	.015"
Gasket Type	Nitrile Rubber
Inlet Hole Pattern	10 holes -.187" elongated
Micron Rating	10

Comparisons were performed on 2/22/2010