

LIQUID PROCESS FILTERS

2026 Global Price List

January 1st, 2026



Graver Technologies

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Discount Schedule

ORDER AND PACKAGE QUANTITIES				
Product	Tier 1 Distributor Discount	Tier 2 Distributor Discount	Tier 3 Distributor Discount	Quantities
Membrane Filters				
ZTEC	40%	35%	30%	Individual
TefTEC, TefTEC P	40%	35%	30%	Individual
TefTEC V	40%	35%	30%	Individual
WaterTEC	40%	35%	30%	Individual
Citadel	35%	30%	25%	Individual
Pleated Filters				
QMA, QMC, QCR, QSL & QXL	40%	35%	30%	Individual
PMA, PMC, PMG	40%	35%	30%	Individual
PME	40%	35%	30%	Case Only (12 pcs)
GFC, GFP, GSS	40%	35%	30%	Individual
High Flow, High Flow GF, High Flow RF	40%	35%	30%	Individual
CelluTEC, CelluTEC HFRF, CelluTEC HF	40%	35%	30%	Individual
Depth Filters				
Stratum A ¹	50%	45%	40%	Individual
Stratum C ¹	40%	35%	30%	Case Only
MBC ¹	35%	30%	25%	Case Only
CMBF ¹	50%	40%	30%	Case Only
Specialty Filters				
RTEC G ^{1,2}	40%	35%	30%	Case Only
TPE	35%	30%	25%	Individual

¹Bulk packaged (no individual boxes) ²Bulk bagged, no individual wrapper

Note: Not all cartridge configurations/combinations are available within any given product line.

Order Requirements

MINIMUM ORDER

Tier 1	\$400.00 excluding shipping charges
Tier 2	\$750.00 excluding shipping charges
Tier 3	\$1,000.00 excluding shipping charges

Note: Smaller orders must be taken with credit card payment and there may be processing fees associated with using a credit card

SPECIAL PRICING

To receive any special negotiated pricing, the SPA number must appear on the purchase order, or standard pricing will apply.

PRIVATE LABELING

Changes to standard packaging and labeling may incur set-up /engineering charges up to \$500.

PAYMENT TERMS

Tier 1	Net 30 (See Terms and Conditions sheet for complete details)
Tier 2	Net 30 (See Terms and Conditions sheet for complete details)
Tier 3	Cash in Advance
Delinquent Accounts	Cash in Advance

FREIGHT TERMS

F.O.B. Shipping Point/Ex-Works Glasgow (International Shipments)

"Prepay and Add" orders will include a handling fee.

"Collect" shipments may be used to avoid handling fee.

Customer must provide shipping preference and account number.

Customs and Duties are the responsibility of the customer.

Orders are subject to a \$50 change fee if changes are made 48 hours after acknowledgment of original Purchase order

Shipping and freight forwarding instructions are required when the purchase order is placed to have it entered. Any order that is going via LTL/truck shipment must have a contact name and phone number on it or it will be held without ship date until one is provided.

RETURN POLICY

Customer Authorization number (CAF) must be obtained from Customer Service before returning goods. *All returns must be shipped prepaid. Minimum restocking charge is 25%. Goods must be in the original container and in saleable conditions to be considered for restocking. Graver retains the right to refuse return of products which cannot be resold.*

Standard Shipment Lead Times

PRODUCT LINE	QUANTITY	LEADTIME
Membrane Filters		
ZTEC Series, TefTEC Series ¹	Up to 100 ten inch equivalents	7 working days ²
	Greater than 100 ten inch equivalents	Consult factory
Citadel ¹	Up to 10 ten inch equivalents	7 working days
	Greater than 10 ten inch equivalents	Consult factory
Pleated Filters		
GFC, PMA, PMC, PME, PMG, QCR, QMA, QMC, QSL, QXL, WaterTEC Series	Up to 300 cartridges	5 working days
	Greater than 300 cartridges	Consult factory
	Optional Rinse	Consult factory
GFP Series	Up to 150 cartridges	5 working days
	Greater than 150 cartridges	Consult factory
GSS Series	Up to 100 cartridges	3 weeks
	Greater than 100 cartridges	Consult factory
High Flow, High Flow GF, High Flow RF	Up to 50 cartridges	10 days
	Greater than 50 cartridges	Consult factory
High Flow with Hard Cage	Up to 25 cartridges	10 days
	Greater than 25 cartridges	Consult factory
CelluTEC, CelluTEC HFRF, CelluTEC HF	Up to 50 cartridges	Consult factory
	Greater than 50 cartridges	Consult factory
Depth Filters		
Stratum A, Stratum C, MBC, CMBF — End capped	Up to 200 ten inch equivalents	5 working days
	201–480 ten inch equivalents	10 working days
	Greater than 480 ten inch equivalents	Consult factory
Stratum A, Stratum C, MBC, CMBF — NN	Up to 1536 ten inch equivalents	5 working days
	Up to 3072 ten inch equivalents	10 working days
Specialty Filters		
RTEC G	Any	Consult factory
TPE	Up to 10 cartridges	Consult factory
	Greater than 10 cartridges	Consult factory

Notes:

- For orders containing products with different leadtimes, the longest leadtime will apply to all items. If this is not desired then request that the order be split at time of order entry.
- For all Special Length filters consult factory

¹Pre-wet - Consult factory ²5 inch equivalents have a leadtime of 10 working days

Standard Packaging Information

CASE INFORMATION						
Filter Length	Membrane ZTEC, TefTEC	Pleated GFC, GFP, PMA, PMC, PME, PMG, QCR, QMA, QMC, QSL, CelluTEC, WaterTEC	Depth (End Capped) STA, STC, MBC	Depth (NN) RTEC G	Depth (NN) STA, STC, MBC	Depth (NN) CMBF
10"	14" x 11" x 14" 36 x 28 x 36 cm 12 lb (5.4kg)	14" x 11" x 14" 36 x 28 x 36 cm 11 lb (5kg)	14" x 11" x 14" 36 x 28 x 36 cm 9 lb (4kg)	9" x 11" x 32" 23 x 28 x 81cm 17 lb (7.7kg)	32" x 11" x 8" 81 x 28 x 20 cm 15 lb (6.8kg)	32" x 11" x 8" 81 x 28 x 20 cm 15 lb (6.8kg)
20"	24" x 11" x 14" 61 x 28 x 36 cm 22 lb (10kg)	24" x 11" x 14" 61 x 28 x 36 cm 19 lb (8.6kg)	24" x 11" x 14" 61 x 28 x 36 cm 12 lb (5.4kg)	9" x 11" x 42" 23 x 28 x 107 cm 23 lb (10.4kg)	41" x 11" x 8" 104 x 28 x 20 cm 21 lb (9.5kg)	41" x 11" x 8" 104 x 28 x 20 cm 21 lb (9.5kg)
30"	34" x 11" x 14" 86 x 28 x 36 cm 33 lb (15kg)	34" x 11" x 14" 86 x 28 x 36 cm 29 lb (13kg)	34" x 11" x 14" 86 x 28 x 36 cm 19 lb (8.6kg)	9" x 11" x 32" 23 x 28 x 81cm 17 lb (7.7kg)	32" x 11" x 8" 81 x 28 x 20 cm 15 lb (6.8kg)	32" x 11" x 8" 81 x 28 x 20 cm 15 lb (6.8kg)
40"	44" x 11" x 14" 112 x 28 x 36 cm 41 lb (18.6kg)	44" x 11" x 14" 112 x 28 x 36 cm 39 lb (17.7kg)	44" x 11" x 14" 112 x 28 x 36 cm 25 lb (11kg)	9" x 11" x 42" 23 x 28 x 107 cm 23 lb (10.4kg)	41" x 11" x 8" 104 x 28 x 20 cm 21 lb (9.5kg)	41" x 11" x 8" 104 x 28 x 20 cm 21 lb (9.5kg)

4 PACK BOXES		
Membrane and Pleated Filters	Dimensions	Weight
10"	15" x 8" x 8" 38 x 20 x 20 cm	4 lb (1.8kg)
20"	25" x 8" x 8" 64 x 20 x 20 cm	8 lb (3.6kg)
30"	37" x 8" x 8" 94 x 20 x 20 cm	12 lb (5.4kg)
40"	48" x 8" x 8" 122 x 20 x 20 cm	16 lb (7.3kg)

Note: All weights are approximate

HIGH FLOW PACKAGING		
High Flow Filters	Dimensions	Weight
20"	22" x 8" x 8" 56 x 20 x 20 cm	4 lb (1.8kg)
20" w/Hard Cage	22" x 8" x 8" 56 x 20 x 20 cm	4 lb (1.8kg)
40"	43" x 8" x 8" 109 x 20 x 20 cm	7 lb (3.1kg)
40" w/Hard Cage	43" x 8" x 8" 109 x 20 x 20 cm	7.7lb (3.5kg)
60"	62" x 8" x 8" 157 x 20 x 20 cm	10 lb (4.5kg)
60" w/Hard Cage	62" x 8" x 8" 157 x 20 x 20 cm	11lb (5kg)

PACKAGING QUANTITIES		
Filter Length	Melt Blown, RTEC G Cut Ends/DGB	Membrane, Pleated, Melt Blown End Capped
5"	60 per case*	N/A
10"	36 per case	12 per case
20"	24 per case	12 per case
30"	12 per case	12 per case
40"	12 per case	12 per case

*Not including the RTEC G

Standard Pallet Information

CMBF, MBC, STRATUM – "NN" CONFIGURATION

Filter Length	Filters/Box	Boxes/Pallet	Number of Filters	Number of TIES
10"	36	40	1440	1440
20"	24	32	768	1536
30"	12	40	480	1440
40"	12	32	384	1536

MBC, STRATUM – END CAPPED CONFIGURATION

Filter Length	Filters/Box	Boxes/Pallet	Number of Filters	Number of TIES
10"	12	50	600	600
20"	12	30	360	720
30"	12	25	300	900
40"	12	20	240	960

PLEATED

Filter Length	Filters/Box	Boxes/Pallet	Number of Filters	Number of TIES
10"	12	48	576	576
20"	12	24	288	576
30"	12	20	240	720
40"	12	16	192	768

20 Foot Container = 10 pallets

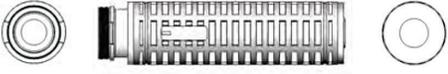
40 Foot Container = 20 pallets

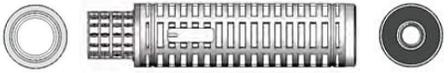
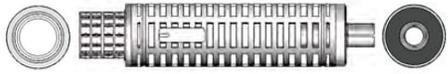
PALLET WEIGHT

Type	Weight
Plastic Pallet	25lb (11.3kg)
Wood Pallet	35lb (15.9kg)

Filter End Configurations

Graver offers a wide variety of end configurations on our filter cartridges to meet customer requirements and for fit in installed housings. The following guide will familiarize you with the options available.

Style	DOE or SOE	Visual
P	DOE	Thermally bonded-plastic caps with flat gasket seal on both open ends 
P3	SOE	222 double o-ring on open end Flat on closed end 
P8	SOE	222 double o-ring on open end Spear on closed end 
P2	SOE	226 double o-ring on open end Flat on closed end 
P7	SOE	226 double o-ring on open end Spear on closed end 
NN	DOE	No endcaps, o-rings or gaskets on either open ends 

Style	DOE or SOE	Visual
DBG	DOE	Santoprene gaskets bonded on both open ends 
P6	SOE	Plastic spring on closed end Gasket or NN on open end 
P9	SOE	Plastic spring on closed end Extended core on open end 
PX	DOE	Flat gasket or NN on both open ends with extended core on one end 
AM	SOE	Internal o-ring on open end Recessed cup on closed end 
NPC	DOE	Internal o-rings on both open ends 
P28	SOE	222 double o-ring with tabs on open end Spear on closed end 

*DOE = Double Open End / SOE = Single Open End

Note: not all configurations are available on every product. Please consult specific product data sheets for more detail.

The following trademarks are used throughout:

Viton® — Registered trademark of DuPont Performance Elastomers

Teflon® — registered trademark of Dupont

Chemraz® — Registered trademark of Greene Tweed

Kalrez® — Registered trademark of DuPont Performance Elastomers

Santoprene® — Registered trademark of Advanced Elastomer Systems

Customer Service Directory

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Citadel® All-fluoropolymer Filter Series

CITADEL NOMENCLATURE INFORMATION						
Filter Type	Retention Rating (microns)		Nominal Length (inches)	End Configuration	Gasket or O-Ring	Option
Citadel Series Filters	0.05	0.45	-10	P2 226/Flat Single Open End	C FFKM	-W Pre-Wet
	0.1	1	-20	P3 222/Flat Single Open End	T Teflon encap. Viton (Standard)	
	0.2	10	-30 -40			
Example: CTL 0.05-20P3T-W						
CTL	0.05		-20	P3	T	-W

CTL 0.05-20P3T-W = Citadel filter, 0.05 micron, 20 inches, 222/Flat, Teflon encap. Viton O-Rings, Pre-Wet

CITADEL NOMINAL LENGTH				
Micron	10"	20"	30"	40"
0.05	\$1,849.15	\$3,409.63	\$4,970.12	\$6,530.60
0.1	\$1,642.92	\$3,065.91	\$4,488.92	\$5,911.90
0.2	\$1,505.44	\$2,839.06	\$4,172.67	\$5,506.31
0.45	\$1,505.44	\$2,839.06	\$4,172.67	\$5,506.31
1.0	\$1,505.44	\$2,839.06	\$4,172.67	\$5,506.31
10	\$1,505.44	\$2,839.06	\$4,172.67	\$5,506.31
Adders				
FFKM.Consult Factory				
Pre-Wet \$25.00				

TefTEC™ Membrane Filter Cartridges

TefTEC NOMENCLATURE INFORMATION									
Filter Type	Retention Rating (microns)		Nominal Length (in)		End Configuration		Gasket or O-Ring		Options
TefTEC Series	0.05	0.45	-5	-20	P	Double Open End	B	Buna-N	-W Pre-Wet
	0.1	1	-9.75*	-30	P2	226/Flat Single Open End	E	EPDM	
	0.2		-10	-40	P3	222/Flat Single Open End	S	Silicone	
					P7	226/Fin Single Open End	T	Teflon encap. Viton (O-Rings only)	
					P8	222/Fin Single Open End	T	Teflon (gaskets)	
					P28	222 w/3 tabs/Fin Single Open End	V	Viton	
					AM	Single Open End, Internal O-Ring			
Example: TefTEC 0.1-20P2S-W					NPC	Double Open End, Internal O-Ring			
TefTEC	0.1		-20		P2		S		-W

*Available only for DOE (P) configuration

TefTEC NOMINAL LENGTH					
Micron	5"	10"	20"	30"	40"
0.05	\$343.68	\$429.62	\$859.14	\$1,225.71	\$1,611.34
0.1	\$282.32	\$352.89	\$705.90	\$1,006.91	\$1,323.52
0.2	\$252.07	\$315.11	\$616.34	\$899.01	\$1,181.72
0.45	\$252.07	\$315.11	\$616.34	\$899.01	\$1,181.72
1	\$242.11	\$302.67	\$603.18	\$860.46	\$1,131.09
Adders					
Teflon Encapsulated Viton	\$18.00	Viton Gaskets		\$20.00	
Teflon Gaskets	\$35.00	Viton O-Rings		\$10.00	
Pre-Wet	\$25.00				

TefTEC™ P Membrane Filter Cartridges

TefTEC P NOMENCLATURE INFORMATION								
Filter Type	Retention Rating (microns)	Nominal Length (inches)		End Configuration		Gasket or O-Ring	Options	
TefTEC P Series	0.2	-5	-30	P2	226/Flat Single Open End	B	Buna-N	-W Pre-Wet
		-10	-40	P3	222/Flat Single Open End	E	EPDM	
		-20		P7	226/Fin Single Open End	S	Silicone	
				P8	222/Fin Single Open End	T	Teflon encap. Viton (O-Rings only)	
				P28	222 w/3 tabs/Fin Single Open End	V	Viton	
Example: TefTEC P 0.2-10P7S								
TefTEC P	0.2	-20		P2		S		

TefTEC P 0.2-10P7S = TefTEC P filter, 0.2 micron, 10 inches, 226/Fin, Silicone O-Rings

TefTEC P NOMINAL LENGTH					
Micron	5"	10"	20"	30"	40"
0.2	\$302.09	\$377.61	\$705.08	\$1,012.46	\$1,319.87
Adders					
Teflon Encapsulated Viton	\$18.00	Viton Gaskets		\$20.00	
Pre-Wet	\$25.00	Viton O-Rings		\$10.00	

TefTEC™ V Membrane Filter Cartridges

TefTEC V NOMENCLATURE INFORMATION						
Filter Type	Retention Rating (microns)	Nominal Length (inches)		End Configuration		Gasket or O-Ring
TefTEC V Series	0.2	-5	-20	P	Double Open End	B Buna-N
		-9.75 [*]	-30	P2	226/Flat Single Open End	E EPDM
		-10	-40	P3	222/Flat Single Open End	S Silicone
				P7	226/Fin Single Open End	T Teflon encap. Viton (O-Rings only)
				P8	222/Fin Single Open End	T Teflon (gaskets)
				P28	222 w/3 tabs/Fin Single Open End	V Viton
				AM	Single Open End, Internal O-Ring	
Example: TefTEC V 0.2-10P7S				NPC	Double Open End, Internal O-Ring	
TefTEC V	0.2	-20		P2		S

TefTEC V 0.2-10P7S = TefTEC V filter, 0.2 micron, 10 inches, 226/Fin, Silicone O-Rings

¹Available only for DOE (P) configuration ²Not available in AM style

TefTEC V NOMINAL LENGTH					
Micron	5"	10"	20"	30"	40"
0.2	\$117.62	\$146.68	\$285.11	\$431.86	\$578.60
Adders					
Teflon Encapsulated Viton	\$18.00	Viton Gaskets	\$20.00		
Teflon Gaskets	\$35.00	Viton O-Rings	\$10.00		

WaterTEC™ Membrane Filter Cartridges

WaterTEC NOMENCLATURE INFORMATION									
Filter Type	Retention Rating (microns)		Nominal Length (inches)		End Configuration		Gasket or O-Ring		Options
WaterTEC Series	0.05	0.45	-5	-29.25 ¹	P	Double Open End	B	Buna-N	-I End Cap Insert -R Factory Pre-Rinse
	0.1	0.65	-9.75 ¹	-30	P2	226/Flat Single Open End	E	EPDM	
	0.2		-10	-39 ¹	P3	222/Flat Single Open End	S	Silicone	
			-19.5 ¹	-40	P7	226/Fin Single Open End	T	Teflon encap. Viton (O-Rings only) ²	
			-20		P8	222/Fin Single Open End	T	Teflon Gasket	
				P28	222 w/3 tabs/Fin Single Open End	V	Viton		
				AM	Single Open End, Internal O-Ring				
				NPC	Double Open End, Internal O-Ring				
Example: WaterTEC 0.2-10P2E-R									
WaterTEC	0.2		-10		P2		E		-R

WaterTEC 0.2-10P2E-R = WaterTEC filter, 0.2 micron, 10 inches, 226/Flat, EDPM O-Rings, Pre-Rinsed

¹Available only for DOE (P) configuration ²Not available in AM style

WaterTEC NOMINAL LENGTH					
Micron	5"	10"	20"	30"	40"
0.05	\$65.35	\$81.72	\$159.35	\$237.04	\$314.69
0.1	\$65.35	\$81.72	\$159.35	\$237.04	\$314.69
0.2	\$65.35	\$81.72	\$159.35	\$237.04	\$314.69
0.45	\$65.35	\$81.72	\$159.35	\$237.04	\$314.69
0.65	\$65.35	\$81.72	\$159.35	\$237.04	\$314.69
Adders					
Teflon Encapsulated Viton	\$18.00	Viton O-Rings		\$10.00	
Teflon Gaskets	\$35.00	End Cap Insert (SOE Only).\$3.20	
Viton Gaskets	\$20.00	Pre-Rinse\$5.00	

ZTEC™ SLB Membrane Filter Cartridges

ZTEC SLB NOMENCLATURE INFORMATION						
Filter Type	Retention Rating (microns)	Nominal Length (inches)		End Configuration		Gasket or O-Ring
ZTEC SLB Series	0.2	-5	-20	P	Double Open End	B Buna-N
		-9.75 [*]	-30	P2	226/Flat Single Open End	E EPDM
		-10	-40	P3	222/Flat Single Open End	S Silicone
				P7	226/Fin Single Open End	T Teflon encap. Viton (O-Rings only)
		P8	222/Fin Single Open End	T Teflon (gaskets)		
		P28	222 w/3 tabs/Fin Single Open End	V Viton		
		AM	Single Open End, Internal O-Ring			
NPC	Double Open End, Internal O-Ring					
Example: ZTEC SLB 0.2-20P2E						
ZTEC SLB	0.2	-20		P2		E

ZTEC SLB 0.2-20P2E = ZTEC SLB filter, 0.2 micron, 20 inches, 226/Flat, EPDM O-Ring

¹Available only for DOE (P) configuration ²Not available in AM style

ZTEC SLB NOMINAL LENGTH					
Micron	5"	10"	20"	30"	40"
0.2	\$124.14	\$189.70	\$347.49	\$505.29	\$695.93
Adders					
Teflon Encapsulated Viton	\$18.00	Viton Gaskets		\$20.00	
Teflon Gaskets	\$35.00	Viton O-Rings		\$10.00	

ZTEC™ B Membrane Filter Cartridges

ZTEC B NOMENCLATURE INFORMATION							
Filter Type	Retention Rating (microns)	Nominal Length (inches)		End Configuration		Gasket or O-Ring	
ZTEC B Series	0.2	-5	-20	P	Double Open End	B Buna-N	
	0.45	-9.75 ¹	-30	P2	226/Flat Single Open End	E EPDM	
	0.65				P3	222/Flat Single Open End	S Silicone
					P7	226/Fin Single Open End	T Teflon encap. Viton (O-Rings only)
					P8	222/Fin Single Open End	T Teflon (gaskets)
					P28	222 w/3 tabs/Fin Single Open End	V Viton
					AM	Single Open End, Internal O-Ring	
NPC	Double Open End, Internal O-Ring						
Example: ZTEC B 0.2-20P2E							
ZTEC B	0.2	-20		P2		E	

ZTEC B 0.2-20P2E = ZTEC B filter, 0.2 micron, 20 inches, 226/Flat, EPDM O-Ring

¹Available only for DOE (P) configuration ²Not available in AM style

ZTEC B NOMINAL LENGTH					
Micron	5"	10"	20"	30"	40"
0.2	\$113.52	\$141.91	\$276.85	\$418.85	\$560.83
0.45	\$105.61	\$141.91	\$276.85	\$418.85	\$560.83
0.65	\$105.61	\$141.91	\$276.85	\$418.85	\$560.83
Adders					
Teflon Encapsulated Viton	\$18.00	Viton Gaskets		\$20.00	
Teflon Gaskets	\$35.00	Viton O-Rings		\$10.00	

ZTEC™ E Membrane Filter Cartridges

ZTEC E NOMENCLATURE INFORMATION						
Filter Type	Retention Rating (microns)		Nominal Length (inches)		End Configuration	Gasket or O-Ring
ZTEC E Series	0.03	0.2	-5	-20	P Double Open End	B Buna-N
	0.1	0.45	-9.75*	-30	P2 226/Flat Single Open End	E EPDM
			-10	-40	P3 222/Flat Single Open End	S Silicone
					P7 226/Fin Single Open End	T Teflon encap. Viton (O-Rings only)
					P8 222/Fin Single Open End	T Teflon (gaskets)
					P28 222 w/3 tabs/Fin Single Open End	V Viton
				AM Single Open End, Internal O-Ring		
Example: ZTEC E 0.45-30P8T					NPC Double Open End, Internal O-Ring	
ZTEC E	0.45		-30		P8	T

ZTEC E 0.45-30P8T = ZTEC E filter, 0.45 micron, 30 inches, 226/Fin, Teflon encap. Viton O-Rings

*Available only for DOE (P) configuration †Not available in AM style

ZTEC E NOMINAL LENGTH					
Micron	5"	10"	20"	30"	40"
0.03	\$138.14	\$172.70	\$336.72	\$500.72	\$673.45
0.1	\$138.14	\$172.70	\$336.72	\$500.72	\$673.45
0.2	\$131.35	\$164.22	\$320.07	\$476.17	\$640.44
0.45	\$131.35	\$164.22	\$320.07	\$476.17	\$640.44
Adders					
Teflon Encapsulated Viton	\$18.00	Viton Gaskets		\$20.00	
Teflon Gaskets	\$35.00	Viton O-Rings		\$10.00	

ZTEC™ G Membrane Filter Cartridges

ZTEC G NOMENCLATURE INFORMATION							
Filter Type	Retention Rating (microns)		Nominal Length (inches)		End Configuration		Gasket or O-Ring
ZTEC G Series	0.1	0.45	-5	-20	P	Double Open End	B Buna-N
	0.2	0.65	-9.75*	-30	P2	226/Flat Single Open End	E EPDM
					P3	222/Flat Single Open End	S Silicone
					P7	226/Fin Single Open End	T Teflon encap. Viton (O-Rings only)
					P8	222/Fin Single Open End	T Teflon (gaskets)
					P28	222 w/3 tabs/Fin Single Open End	V Viton
AM	Single Open End, Internal O-Ring						
			-10	-40	NPC	Double Open End, Internal O-Ring	
Example: ZTEC G 0.1-10P7S							
ZTEC G	0.1		-10		P7		S

ZTEC G 0.1-10P7S = ZTEC G filter, 0.1 micron, 10 inches, 226/Fin, Silicone O-Rings

¹Available only for DOE (P) configuration ²Not available in AM style

ZTEC G NOMINAL LENGTH					
Micron	5"	10"	20"	30"	40"
0.1	\$114.82	\$143.56	\$279.88	\$423.49	\$567.07
0.2	\$107.90	\$134.88	\$263.17	\$398.13	\$532.99
0.45	\$107.90	\$134.88	\$263.17	\$398.13	\$532.99
0.65	\$107.90	\$134.88	\$263.17	\$398.13	\$532.99
Adders					
Teflon Encapsulated Viton	\$18.00	Viton Gaskets		\$20.00	
Teflon Gaskets	\$35.00	Viton O-Rings		\$10.00	

ZTEC™ P Membrane Filter Cartridges

ZTEC P NOMENCLATURE INFORMATION					
Filter Type	Retention Rating (microns)	Nominal Length (inches)		End Configuration	Gasket or O-Ring
ZTEC P Series	0.2	-5	-30	P2 226/Flat Single Open End	B Buna-N
		-10	-40	P3 222/Flat Single Open End	E EPDM
		-20		P7 226/Fin Single Open End	S Silicone
				P8 222/Fin Single Open End	T Teflon encap. Viton (O-Rings only)
				P28 222 w/3 tabs/Fin Single Open End	V Viton
Example: ZTEC P 0.2-20 P2S					
ZTEC P	0.2	-20		P2	S

ZTEC P 0.2-20 P2S = ZTEC P filter, 0.2 micron, 20 inches, 226/Flat, Silicone

ZTEC P NOMINAL LENGTH					
Micron	5"	10"	20"	30"	40"
0.2	\$221.50	\$276.87	\$526.09	\$775.30	\$1,024.51
Adders					
Teflon Encapsulated Viton \$18.00					
Viton O-Rings \$10.00					

ZTEC™ SLWB Membrane Filter Cartridges

ZTEC SLWB NOMENCLATURE INFORMATION						
Filter Type	Retention Rating (microns)	Nominal Length (inches)		End Configuration		Gasket or O-Ring
ZTEC SLWB Series	0.2	-5	-20	P	Double Open End	B Buna-N
	0.45	-9.75*	-30	P2	226/Flat Single Open End	E EPDM
	0.65	-10	-40	P3	222/Flat Single Open End	S Silicone
				P7	226/Fin Single Open End	T Teflon encap. Viton (O-Rings only)
				P8	222/Fin Single Open End	T Teflon (gaskets)
Example: ZTEC SLWB 0.45-20P2E				P28	222 w/3 tabs/Fin Single Open End	V Viton
				AM	Single Open End, Internal O-Ring	
ZTEC SLWB	0.45	-20		P2		E

ZTEC SLWB 0.45-20P2E = ZTEC WB filter, 0.45 micron, 20 inches, 226/Flat, EDPM O-Ring

*Available only for DOE (P) configuration

ZTEC SLWB NOMINAL LENGTH					
Micron	5"	10"	20"	30"	40"
0.2	\$121.00	\$180.00	\$330.00	\$490.00	\$660.00
0.45	\$121.00	\$180.00	\$330.00	\$490.00	\$660.00
0.65	\$121.00	\$180.00	\$330.00	\$490.00	\$660.00
Adders					
Teflon Encapsulated Viton	\$18.00	Viton Gaskets		\$20.00	
Teflon Gaskets	\$35.00	Viton O-Rings		\$10.00	

ZTEC™ WB Membrane Filter Cartridges

ZTEC WB NOMENCLATURE INFORMATION						
Filter Type	Retention Rating (microns)	Nominal Length (inches)		End Configuration		Gasket or O-Ring
ZTEC WB Series	0.2	-5	-20	P	Double Open End	B Buna-N
	0.45	-9.75*	-30	P2	226/Flat Single Open End	E EPDM
	0.65			P3	222/Flat Single Open End	S Silicone
				P7	226/Fin Single Open End	T Teflon encap. Viton (O-Rings only)
				P8	222/Fin Single Open End	T Teflon (gaskets)
			P28	222 w/3 tabs/Fin Single Open End	V Viton	
Example: ZTEC WB 0.45-20P2E				AM	Single Open End, Internal O-Ring	
ZTEC WB	0.45	-20		P2		E

ZTEC WB 0.45-20P2E = ZTEC WB filter, 0.45 micron, 20 inches, 226/Flat, EDPM O-Ring

¹Available only for DOE (P) configuration ²Not available in AM style

ZTEC WB NOMINAL LENGTH					
Micron	5"	10"	20"	30"	40"
0.2	\$113.50	\$141.89	\$276.84	\$418.81	\$560.82
0.45	\$113.50	\$141.89	\$276.84	\$418.81	\$560.82
0.65	\$113.50	\$141.89	\$276.84	\$418.81	\$560.82
Adders					
Teflon Encapsulated Viton	\$18.00		Viton Gaskets \$20.00		
Teflon Gaskets	\$35.00		Viton O-Rings \$10.00		

GFC™ Series Pleated Filter Cartridges

GFC NOMENCLATURE INFORMATION									
Filter Type	Retention Rating (microns)		Nominal Length (inches)		End Configuration	Gasket or O-Ring	Options		
GFC Series	0.2	10	-5	-29.25 ¹	P	Double Open End	B Buna-N	-I End Cap Insert for Steaming	
	0.45	30	-9.75 ¹	-30	P2	226/Flat Single Open End	E EPDM		
	1			-10	-39 ¹	P3	222/Flat Single Open End		S Silicone
				-19.5 ¹	-40	P7	226/Fin Single Open End		T Teflon encap. Viton (O-Rings only) ²
				-20		P8	222/Fin Single Open End		V Viton
				AM	Single Open End, Internal O-Ring				
				NPC	Double Open End, Internal O-Ring				
Example: GFC 1-10P7B-I									
GFC	1		-10		P7		B	-I	

GFC 1-10P7B-I = GFC filter, 1 micron, 10 inches, 226/Fin, Buna-N O-Rings, End Cap Insert

¹Available only for DOE (P) configuration ²Not available in AM style

GFC NOMINAL LENGTH					
Micron	5"	10"	20"	30"	40"
0.2	\$62.70	\$78.38	\$147.60	\$221.31	\$251.36
0.45	\$51.81	\$64.78	\$122.48	\$182.76	\$231.96
1	\$43.36	\$54.18	\$104.49	\$139.23	\$174.04
10	\$33.39	\$41.77	\$79.35	\$121.82	\$145.02
30	\$33.39	\$41.77	\$79.35	\$121.82	\$145.02
Adders					
Teflon Encapsulated Viton	\$18.00	Viton O-Rings		\$10.00	
Teflon Gaskets	\$35.00	End Cap Insert (SOE Only).		\$3.20	
Viton Gaskets	\$20.00				

GFP™ Series Pleated Filter Cartridges

GFP NOMENCLATURE INFORMATION						
Filter Type	Retention Rating (microns)	Nominal Length (inches)		End Configuration		Gasket or O-Ring
GFP Series	0.2	-5	-29.25*	P	Double Open End	B Buna-N
	1	-9.75*	-30	P2	226/Flat Single Open End	E EPDM
	10	-10	-39*	P3	222/Flat Single Open End	S Silicone
	30	-19.5*	-40	P7	226/Fin Single Open End	T Teflon encap. Viton (O-Rings only)
		-20		P8	222/Fin Single Open End	T Teflon Gasket
						V Viton
Example: GFP 1-10P3B						
GFP	1	-10		P3		B

GFP 1-10P3B = GFP filter, 1 micron, 10 inches, 222/Flat, Buna-N O-Rings

*Available only for DOE (P) configuration

GFP NOMINAL LENGTH					
Micron	5"	10"	20"	30"	40"
0.2	\$94.69	\$118.37	\$200.40	\$282.44	\$364.49
1	\$65.94	\$82.44	\$128.53	\$174.61	\$220.72
10	\$56.42	\$70.55	\$115.13	\$159.74	\$204.33
30	\$56.42	\$70.55	\$115.13	\$159.74	\$204.33
Adders					
Teflon Encapsulated Viton	\$18.00	Viton Gaskets		\$20.00	
Teflon Gaskets	\$35.00	Viton O-Rings		\$10.00	

GSS™ Series Pleated Filter Cartridges

GSS NOMENCLATURE INFORMATION						
Filter Type	Retention Rating (microns)		Nominal Length (inches)		End Configuration	Gasket or O-Ring
GSS Series	0.2	10	-9.75	-29.25	P Double Open End	B Buna-N
	0.45	30	-10	-30		E EPDM
	1		-19.5	-39		S Silicone
			-20	-40		T Teflon (gaskets)
					V Viton	
Example: GSS 1-10PB						
GSS	1		-10		P	B

GSS1-10PB = GSS filter, 1 micron, 10 inches, DOE, Buna-N gasket

GSS NOMINAL LENGTH					
Micron	5"	10"	20"	30"	40"
0.2	\$76.62	\$95.80	\$181.51	\$258.42	\$326.51
0.45	\$66.53	\$83.18	\$157.56	\$224.38	\$283.65
1	\$57.45	\$71.84	\$119.74	\$170.18	\$214.31
10	\$49.38	\$61.74	\$110.92	\$151.26	\$199.17
30	\$49.38	\$61.74	\$110.92	\$151.26	\$199.17
Adders					
Teflon Gaskets	\$35.00				
Viton Gaskets	\$20.00				

High Flow Pleated Filter Cartridges

HIGH FLOW SERIES NOMENCLATURE INFORMATION									
Product Series	Retention Rating (microns)		Length (inches)	Gasket or O-Ring		Option		Packaging	
HF Series	1	40	-20	B	Buna-N	-HC	Hard Cage	Blank	Individual Box
	3	60	-40	E	EPDM			2 pk	2 Pack Box, 60" Only, w/out hard cage
	5	75	-60	S	Silicone			4 pk	4 Pack Box, 60" Only, w/out hard cage
	10	100		V	Viton				
	20								
Example: HF 5-60E-HC									
HF	5		-60	E		-HC			

HF 5-60E = High Flow filter, 5 micron, 60 inches, EPDM, Hard Cage, Individual Box

HIGH FLOW SERIES NOMINAL LENGTH			
Micron	20"	40"	60"
1	\$400.38	\$571.96	\$772.16
3	\$355.87	\$508.39	\$686.36
5	\$355.87	\$508.39	\$686.36
10	\$333.62	\$476.63	\$643.46
20	\$333.62	\$476.63	\$643.46
40	\$322.51	\$460.71	\$622.00
60	\$300.24	\$428.93	\$579.10
75	\$300.24	\$428.93	\$579.10
100	\$289.12	\$413.09	\$557.66
Adders			
Viton Gaskets	\$45.00		
Hard Cage.	\$0.00		

High Flow GF Pleated Filter Cartridges

HIGH FLOW GF NOMENCLATURE INFORMATION							
Product Series	Hardware Material		Retention Rating (microns)	Length (inches)	Gasket or O-Ring	Packaging	
HFGF Series	P	Polypropylene	1	-20	B Buna-N	Blank	Individual Box
	A	Acetal Caps Polyester Cage	4.5	-40	E EPDM	2 pk	2 Pack Box, 60" Only
			10	-60	S Silicone	4 pk	4 Pack Box, 60" Only
			20		V Viton		
Example: HFGFA 4.5-60E							
HFGF	A		4.5	-60	E		

HFGFA 4.5-60E = High Flow Glass Filter, Acetal Caps, Polyester Cage, 4.5 micron, 60 inches, EPDM Seal, Individual Box

HIGH FLOW GF NOMINAL LENGTH			
Micron	20"	40"	60"
<i>With Polypropylene Hardware</i>			
1	\$449.41	\$734.10	\$1,002.42
4.5	\$335.56	\$479.39	\$647.21
10	\$314.58	\$449.44	\$606.75
20	\$314.58	\$449.44	\$606.75
<i>With Acetal and Polyester Hardware</i>			
1	\$486.89	\$794.02	\$1,153.64
4.5	\$374.52	\$539.32	\$797.05
10	\$352.05	\$509.35	\$756.58
20	\$352.05	\$509.35	\$756.58
Adders			
Viton Gaskets		\$45.00	

High Flow RF Pleated Filter Cartridges

HIGH FLOW RF NOMENCLATURE INFORMATION					
Product Series	Retention Rating (microns)		Length (inches)	End Configuration	Gasket or O-Ring
HFRF Series	1	40	-10	P2 226/Flat Single Open End*	B Buna-N
	3	60	-40		E EPDM
	5	75	-60	P2F 226 with no tabs/ Flat Single Open End*	S Silicone
	10	100			T Teflon encap. Viton
	20				V Viton
Example: HFRF5-40P2E					
HFRF	5		-40	P2	E

HFRF5-40P2E = High Flow RF filter, 5 micron, 40 inches, 226 Connection, EPDM

*Available only as 40" nominal length

HIGH FLOW RF NOMINAL LENGTH			
Micron	10"	40"	60"
1	\$168.63	\$455.76	\$615.23
3	\$134.16	\$362.63	\$489.64
5	\$132.60	\$358.38	\$483.98
10	\$123.73	\$334.42	\$451.54
20	\$123.73	\$334.42	\$451.54
40	\$123.73	\$334.42	\$451.54
60	\$122.15	\$330.17	\$445.88
75	\$122.15	\$330.17	\$445.88
100	\$122.15	\$330.17	\$445.88
P2 and P2F Adders		P30 Adders	
Teflon Encapsulated Viton \$18.00		Teflon Encapsulated Viton \$30.00	
Viton O-Rings \$10.00		Viton O-Rings \$18.00	

PMA™ Series Pleated Filter Cartridges

PMA NOMENCLATURE INFORMATION								
Filter Type	Retention Rating (microns)		Nominal Length (inches)		End Configuration	Gasket or O-Ring	Options	
PMA Series	0.2	10	-5	-29.25 ¹	P	Double Open End	B Buna-N	-I End Cap Insert
	0.45	25	-9.75 ¹	-30	P2	226/Flat Single Open End	E EPDM	-R Factory Pre-Rinse
	1	50	-10	-39 ¹	P3	222/Flat Single Open End	S Silicone	
	2.5	100	-19.5 ¹	-40	P7	226/Fin Single Open End	T Teflon encap. Viton (O-Rings only) ²	
	5		-20		P8	222/Fin Single Open End	T Teflon Gasket	
				P28	222 w/3 tabs/Fin Single Open End	V Viton		
				AM	Single Open End, Internal O-Ring			
				NPC	Double Open End, Internal O-Ring			
Example: PMA 2.5-10PV-R								
PMA	2.5		-10		P		V	-R

PMA 2.5-10PV-R = PMA filter, 2.5 micron, 10 inches, Double Open End, Viton Gasket, Pre-Rinsed

¹Available only for DOE (P) configuration ²Not available in AM or NPC style

PMA NOMINAL LENGTH					
Micron	5"	10"	20"	30"	40"
0.2	\$78.44	\$98.08	\$156.16	\$214.20	\$272.62
0.45	\$69.82	\$87.29	\$148.72	\$202.19	\$258.11
1	\$60.16	\$75.21	\$131.48	\$186.78	\$242.71
2.5	\$58.22	\$72.80	\$128.42	\$184.04	\$237.32
5	\$56.37	\$70.47	\$125.99	\$181.80	\$232.61
10	\$56.37	\$70.47	\$125.99	\$181.80	\$232.61
25	\$56.37	\$70.47	\$125.99	\$181.80	\$232.61
50	\$55.40	\$69.23	\$122.44	\$178.57	\$228.45
100	\$55.40	\$69.23	\$122.44	\$178.57	\$228.45
Adders					
P2, P7 or P28	\$5.25	Viton O-Rings		\$10.00	
Teflon Encapsulated Viton	\$18.00	End Cap Insert		\$3.20	
Teflon Gaskets	\$35.00	Pre-Rinse		\$5.00	
Viton Gaskets	\$20.00				

PMC™ Series Pleated Filter Cartridges

PMC NOMENCLATURE INFORMATION									
Filter Type	Retention Rating (microns)		Nominal Length (inches)		End Configuration		Gasket or O-Ring	Options	
PMC Series	0.2	2	-5	-29.25 ¹	P	Double Open End	B	Buna-N	-I End Cap Insert
	0.25	5	-9.75 ¹	-30	P2	226/Flat Single Open End	E	EPDM	
	0.45	10	-10	-39 ¹	P3	222/Flat Single Open End	S	Silicone	
	0.5	25	-19.5 ¹	-40	P7	226/Fin Single Open End	T	Teflon encap. Viton (O-Rings only) ²	
	1	50	-20		P8	222/Fin Single Open End	T	Teflon Gasket	
					P28	222 w/3 tabs/Fin Single Open End	V	Viton	
Example: PMC 2-20P8V					AM	Single Open End, Internal O-Ring			
					NPC	Double Open End, Internal O-Ring			
PMC	2		-20		P8		V		

PMC 2-20P8V = PMC filter, 2 micron, 20 inches, 222/Fin, Viton O-Ring

¹Available only for DOE (P) configuration ²Not available in AM or NPC style

PMC NOMINAL LENGTH					
Micron	5"	10"	20"	30"	40"
0.2	\$45.49	\$56.88	\$95.96	\$133.47	\$171.51
0.25	\$45.49	\$56.88	\$95.96	\$133.47	\$171.51
0.45	\$43.39	\$54.23	\$89.77	\$127.89	\$160.83
0.5	\$43.39	\$54.23	\$89.77	\$127.89	\$160.83
1	\$42.11	\$52.66	\$82.63	\$115.14	\$144.81
2	\$40.99	\$51.24	\$80.42	\$107.21	\$134.29
5	\$35.47	\$44.36	\$70.95	\$99.25	\$125.10
10	\$35.47	\$44.36	\$70.95	\$99.25	\$125.10
25	\$35.47	\$44.36	\$70.95	\$99.25	\$125.10
50	\$35.47	\$44.36	\$70.95	\$99.25	\$125.10
Adders					
P2, P7 or P28	\$5.25			Viton Gaskets	\$20.00
Teflon Encapsulated Viton	\$18.00			Viton O-Rings	\$10.00
Teflon Gaskets	\$35.00			End Cap Insert	\$3.20

PME Series Pleated Filter Cartridges

PME NOMENCLATURE INFORMATION							
Filter Type	Retention Rating (microns)		Nominal Length (inches)		End Configuration	Gasket or O-Ring	
PME Series	0.2	5	-5	-29.25*	P	Double Open End	B Buna-N
	0.45	10	-9.75*	-30	P2	226/Flat Single Open End	E EPDM
	1	25	-10	-39*	P3	222/Flat Single Open End	S Silicone
	2.5	50	-19.5*	-40	P7	226/Fin Single Open End	T Teflon encap. Viton (O-Rings only)
				-20	P8	222/Fin Single Open End	V Viton
Example: PME 5-10P3B							
PME	5		-10		P3		B

PME 5-10P3B = PME filter, 5 micron, 10 inches, 222/Flat, Buna-N O-Ring

*Available only for DOE (P) configuration

PME NOMINAL LENGTH					
Micron	5"	10"	20"	30"	40"
0.2	\$31.48	\$39.40	\$68.14	\$96.93	\$125.70
0.45	\$23.48	\$29.37	\$48.08	\$66.81	\$85.55
1	\$22.86	\$28.60	\$46.57	\$64.53	\$82.51
2.5	\$21.84	\$27.31	\$43.96	\$60.66	\$77.31
5	\$21.84	\$27.31	\$43.96	\$60.66	\$77.31
10	\$19.17	\$23.98	\$37.35	\$50.72	\$64.08
25	\$17.27	\$21.59	\$32.56	\$43.51	\$53.95
50	\$17.27	\$21.59	\$32.56	\$43.51	\$53.95
Adders					
P2 or P7	\$5.25		Viton Gaskets \$20.00		
Teflon Encapsulated Viton	\$18.00		Viton O-Rings \$10.00		

PMG Series Pleated Filter Cartridges

PMG NOMENCLATURE INFORMATION							
Filter Type	Retention Rating (microns)		Nominal Length (inches)		End Configuration		Gasket or O-Ring
PMG Series	0.2	10	-5	-29.25*	P	Double Open End	B Buna-N
	0.45	30	-9.75*	-30	P2	226/Flat Single Open End	E EPDM
	1				P3	222/Flat Single Open End	S Silicone
					P7	226/Fin Single Open End	T Teflon encap. Viton (O-Rings only)
					P8	222/Fin Single Open End	V Viton
Example: PMG 1-10P7B							
PMG	1		-10		P7		B

PMG 1-10P7B = PMG filter, 1 micron, 10 inches, 226/Fin, Buna-N O-Ring

*Available only for DOE (P) configuration

PMG NOMINAL LENGTH					
Micron	5"	10"	20"	30"	40"
0.2	\$40.38	\$50.43	\$94.68	\$144.18	\$171.34
0.45	\$34.51	\$47.40	\$84.66	\$122.95	\$159.07
1	\$25.56	\$33.88	\$65.78	\$84.17	\$107.29
10	\$22.43	\$30.99	\$51.85	\$79.32	\$92.42
30	\$21.52	\$29.35	\$50.66	\$73.93	\$89.56
Adders					
P2 or P7	\$5.25	Viton Gaskets		\$20.00	
Teflon Encapsulated Viton	\$18.00	Viton O-Rings		\$10.00	

QCR™ Series Pleated Filter Cartridges

QCR NOMENCLATURE INFORMATION							
Filter Type	Retention Rating (microns)	Nominal Length (inches)		End Configuration	Gasket or O-Ring	Options	
QCR Series	0.8 1	-5	-29.25*	P	Double Open End	B Buna-N	-I Steam Insert
		-9.75*	-30	P2	226/Flat Single Open End	E EPDM	
		-10	-39*	P3	222/Flat Single Open End	S Silicone	
		-19.5*	-40	P7	226/Fin Single Open End	T Teflon encap. Viton (O-Rings only)	
		-20		P8	222/Fin Single Open End	V Viton	
Example: QCR 1-30P7S-I							
QCR	1	-30		P7	S	-I	

QCR 1-30P7S-I = QCR filter, 1 micron, 30 inches, 226/Fin, Silicone O-Rings, Steam Insert

*Available only for DOE (P) configuration

QCR NOMINAL LENGTH					
Micron	5"	10"	20"	30"	40"
0.8	\$64.53	\$80.66	\$140.32	\$197.95	\$257.57
1	\$58.77	\$73.45	\$127.81	\$180.29	\$234.57
Adders					
Teflon Encapsulated Viton	\$18.00	Viton O-Rings		\$10.00	
Viton Gaskets	\$20.00	End Cap Insert		\$3.20	

QMA™ Series Pleated Filter Cartridges

QMA NOMENCLATURE INFORMATION									
Filter Type	Retention Rating (microns)		Nominal Length (inches)		End Configuration		Gasket or O-Ring		Options
QMA Series	0.2	5	-5	-29.25 ¹	P	Double Open End	B	Buna-N	-I End Cap Insert for Steaming -R Factory Pre-Rinse
	0.45	10	-9.75 ¹	-30	P2	226/Flat Single Open End	E	EPDM	
	1		-10	-39 ¹	P3	222/Flat Single Open End	S	Silicone	
	2.5		-19.5 ¹	-40	P7	226/Fin Single Open End	T	Teflon encap. Viton (O-Rings only) ²	
				-20	P8	222/Fin Single Open End	T	Teflon Gasket	
					P28	222 w/3 tabs/Fin Single Open End	V	Viton	
				PX	Extended Core				
				AM	Single Open End, Internal O-Ring				
				NPC	Double Open End, Internal O-Ring				
Example: QMA 1-20P3V-R									
QMA	1		-20		P3		V		-R

QMA 1-20P3V-R = QMA filter, 1 micron, 20 inches, 222/Flat, Viton O-Rings, Pre-Rinse

¹Available only for DOE (P) configuration ²Not available in AM style

QMA NOMINAL LENGTH					
Micron	5"	10"	20"	30"	40"
0.2	\$96.45	\$120.61	\$229.11	\$337.62	\$446.38
0.45	\$91.89	\$114.89	\$222.02	\$329.14	\$428.80
1	\$81.14	\$101.43	\$200.99	\$290.88	\$379.11
2.5	\$73.41	\$91.76	\$177.90	\$254.57	\$331.10
5	\$68.84	\$86.05	\$153.01	\$229.67	\$306.29
10	\$68.84	\$86.05	\$153.01	\$229.67	\$306.29
20	\$68.84	\$86.05	\$153.01	\$229.67	\$306.29
Adders					
Teflon Encapsulated Viton	\$18.00	Viton O-Rings		\$10.00	
Teflon Gaskets	\$35.00	End Cap Insert (SOE Only).		\$3.20	
Viton Gaskets	\$20.00	Pre-Rinse		\$5.00	

QMC™ Series Pleated Filter Cartridges

QMC NOMENCLATURE INFORMATION							
Filter Type	Retention Rating (microns)		Nominal Length (inches)		End Configuration	Gasket or O-Ring	
QMC Series	0.1	1	-5	-29.25 ¹	P	Double Open End	B Buna-N
	0.2	3	-9.75 ¹	-30	P2	226/Flat Single Open End	E EPDM
	0.4	5	-10	-39 ¹	P3	222/Flat Single Open End	S Silicone
	0.6	10	-19.5 ¹	-40	P7	226/Fin Single Open End	T Teflon encap. Viton (O-Rings only) ²
			-20		P8	222/Fin Single Open End	T Teflon Gasket
				P28	222 w/3 tabs/Fin Single Open End	V Viton	
				PX	Extended Core		
				AM	Single Open End, Internal O-Ring		
				NPC	Double Open End, Internal O-Ring		
Example: QMC 1-20P3V							
QMC	1		-20		P3		V

QMC 1-20P3V = QMC filter, 1 micron, 20 inches, 222/Flat, Viton O-Rings

¹Available only for DOE (P) configuration ²Not available in AM or NPC style

QMC NOMINAL LENGTH					
Micron	5"	10"	20"	30"	40"
0.1	\$89.91	\$112.42	\$211.99	\$307.29	\$423.71
0.2	\$84.66	\$105.87	\$203.48	\$292.33	\$417.48
0.4	\$77.95	\$97.46	\$182.21	\$269.12	\$364.34
0.6	\$77.95	\$97.46	\$182.21	\$269.12	\$364.34
1	\$54.28	\$67.86	\$125.10	\$190.65	\$256.34
3	\$54.28	\$67.86	\$125.10	\$190.65	\$256.34
5	\$54.28	\$67.86	\$125.10	\$190.65	\$256.34
10	\$54.28	\$67.86	\$125.10	\$190.65	\$256.34
Adders					
Teflon Encapsulated Viton	\$18.00	Viton Gaskets	\$20.00		
Teflon Gaskets	\$35.00	Viton O-Rings	\$10.00		

QSL™ Series Pleated Filter Cartridges

QSL NOMENCLATURE INFORMATION							
Filter Type	Retention Rating (microns)	Nominal Length (inches)		End Configuration		Gasket or O-Ring	Options
QSL Series	0.2	-5	-29.25 ¹	P	Double Open End	B Buna-N	-R Factory Rinse -I Steam Insert
		0.5	-9.75 ¹	-30	P2	226/Flat Single Open End	
	-10		-39 ¹	P3	222/Flat Single Open End	S Silicone	
	-19.5 ¹		-40	P7	226/Fin Single Open End	T Teflon encap. Viton	
	-20			P8	222/Fin Single Open End	T Teflon encap. Viton (O-Rings Only) ²	
				AM	Single Open End, Internal O-Ring	V Viton	
			NPC	Double Open End, Internal O-Ring			
Example: QSL0.5-20P3S-I							
QSL	0.5	-20		P3		S	-I

QSL0.5-20P3S-I = QSL filter, 0.5 micron, 20 inches, 222/Flat, Silicone O-Rings, Steam Insert

¹Available only for DOE (P) configuration ²Not available in AM or NPC style

QSL NOMINAL LENGTH					
Micron	5"	10"	20"	30"	40"
0.2	\$84.67	\$105.85	\$184.41	\$261.25	\$339.81
0.5	\$62.71	\$77.75	\$135.48	\$191.91	\$249.64
Adders					
Teflon Encapsulated Viton	\$18.00	Viton O-Rings	\$10.00		
Teflon Gaskets	\$35.00	End Cap Insert	\$3.20		
Viton Gaskets	\$20.00	Rinse	\$5.00		

QXL™ Series Pleated Filter Cartridges

QXL NOMENCLATURE INFORMATION									
Filter Type	Retention Rating (microns)		Nominal Length (inches)		End Configuration		Gasket or O-Ring		Options
QXL Series	0.45 ¹	5	-5	-29.25 ²	P	Double Open End	B	Buna-N	-I End Cap Insert
	0.5	10	-9.75 ²	-30	P2	226/Flat Single Open End	E	EPDM	-R Factory Pre-Rinse
	1	20	-10	-39 ²	P3	222/Flat Single Open End	S	Silicone	
	3	40	-19.5 ²	-40	P7	226/Fin Single Open End	T	Teflon encap. Viton (O-Rings only) ³	
					P8	222/Fin Single Open End	T	Teflon Gasket	
				P28	222 w/3 tabs/Fin Single Open End	V	Viton		
Example: QXL 5-10P8S-I					AM	Single Open End, Internal O-Ring			
QXL	5		-10		P8		S		-I

QXL 5-10P8S-I = QXL filter, 5 micron, 10 inches, 222/Fin, Silicone O-Rings, End Cap Insert

¹Special CMP slurry formulation ²Available only for DOE (P) configuration ³Not available in AM style

QXL NOMINAL LENGTH					
Micron	5"	10"	20"	30"	40"
0.2	\$59.54	\$74.43	\$141.46	\$224.92	\$282.96
0.45	\$56.68	\$70.87	\$134.73	\$202.10	\$269.48
0.5	\$53.99	\$67.49	\$128.23	\$192.41	\$256.59
1	\$48.88	\$61.08	\$116.05	\$174.18	\$232.21
3	\$47.32	\$59.19	\$112.51	\$170.55	\$225.11
5	\$43.65	\$54.59	\$103.91	\$155.83	\$207.69
10	\$43.65	\$54.59	\$103.91	\$155.83	\$207.69
20	\$43.65	\$54.59	\$103.91	\$155.83	\$207.69
40	\$43.65	\$54.59	\$103.91	\$155.83	\$207.69
Adders					
Teflon Encapsulated Viton	\$18.00	Viton O-Rings		\$10.00	
Teflon Gaskets	\$35.00	End Cap Insert		\$3.20	
Viton Gaskets	\$20.00	Pre-Rinse		\$5.00	

CelluTEC® Series Pleated Filter Cartridges

CelluTEC (STANDARD) NOMENCLATURE INFORMATION							
Product Series	Retention Rating (microns)	Length (inches)		End Configuration		Gasket or O-Ring	
CelluTEC	0.5	-9.75*	-29.25*	P	Double Open End	B Buna-N	
	1	-10	-30	P2	226/Flat Single Open End	E EPDM	
	10	-19.5*	-39*	P3	222/Flat Single Open End	S Silicone	
	25				P7	226/Fin Single Open End	T Teflon encap. Viton (O-Rings only)
					P8	222/Fin Single Open End	T Teflon Gasket
				P28	222 w/3 tabs/Fin Single Open End	V Viton	
Example: CelluTEC 1-30-P2E				AM	Single Open End, Internal O-Ring		
				NPC	Double Open End, Internal O-Ring		
CelluTEC	1	-30		P2		E	

CelluTEC 1-30-P2E = CelluTEC filter, 1 micron, 30 inches, 226/Flat, EPDM O-Rings

*Available only for DOE (P) configuration

CelluTEC 2.7" DIAMETER NOMINAL LENGTH				
Micron	9.75"/10"	19.5"/20"	29.25"/30"	39"/40"
0.5	\$58.00	\$106.21	\$154.42	\$202.63
1	\$55.24	\$101.15	\$147.07	\$192.98
10	\$50.22	\$91.96	\$133.70	\$175.44
25	\$50.22	\$91.96	\$133.70	\$175.44
Adders				
Teflon Encapsulated Viton	\$18.00	Viton Gaskets		\$20.00
Teflon Gaskets	\$35.00	Viton O-Rings		\$10.00

CelluTEC® HFRF Series Pleated Filter Cartridges

CelluTEC HIGH FLOW RF NOMENCLATURE INFORMATION						
Product Series	Retention Rating (microns)		Length (inches)		End Configuration	Gasket or O-Ring
CelluTEC HFRF	0.5	10	-10	-40	P2 226/Flat Single Open End	B Buna-N
	1	25	-20	-60*	P2F 226 with no tabs/ Flat Single Open End	E EPDM
			-30		P30 338/Flat Single Open End	S Silicone V Viton
Example: CelluTEC HFRF 10-20-P2FS						
CelluTEC HFRF	10		-20		P2F	S

*Available only for P30 configuration

CelluTEC HFRF 10-20-P2FS = CelluTEC HFRF filter, 10 micron, 20 inches, 226 with no tabs, Silicone O-Rings

CelluTEC HIGH FLOW RF NOMINAL LENGTH					
Micron	10"	20"	30"	40"	60"
0.5	\$185.55	\$319.38	\$453.20	\$587.02	\$854.68
1	\$176.71	\$304.17	\$431.62	\$559.07	\$813.98
10	\$160.65	\$276.52	\$392.38	\$508.25	\$739.99
25	\$160.65	\$276.52	\$392.38	\$508.25	\$739.99
P2 and P2F Adders			P30 Adders		
Viton O-Rings \$10.00			Teflon Encapsulated Viton \$30.00		
			Viton O-Rings \$18.00		

CelluTEC® HF Series Pleated Filter Cartridges

CelluTEC HF NOMENCLATURE INFORMATION					
Product Series	Retention Rating (microns)	Length (inches)	Gasket or O-Ring		Packaging
CelluTEC HF	0.5	-20	B	Buna-N	Blank Individual Box
	1	-40	E	EPDM	2 pk 2 Pack Box, 60" Only
	10	-60	S	Silicone	4 pk 4 Pack Box, 60" Only
	25		V	Viton	
Example: CelluTEC HF 10-20-S					
CelluTEC	10	-20	S		

CelluTEC HF 10-20-S = CelluTEC HF filter, 10 micron, 20 inches, Silicone O-Rings, Individual Box

CelluTEC HF NOMINAL LENGTH			
Micron	20"	40"	60"
0.5	\$250.87	\$456.92	\$662.98
1	\$238.93	\$435.17	\$631.41
10	\$217.21	\$395.61	\$574.01
25	\$217.21	\$395.61	\$574.01
Adders			
Viton Gaskets \$20.00			

Crystal MBF Series Depth Filter Cartridges

CRYSTAL MBF NOMENCLATURE INFORMATION						
Filter Type	Retention Rating (microns)		Nominal Length (inches)		End Configuration	Gasket or O-Ring
CMBF Series	1	20	-5	-29.25	N None (Cut Ends)	N None
	3	30	-9.75	-30		
	5	50	-10	-39		
	10	75	-19.5	-40		
Example: CMBF 10-20NN						
CMBF	10		-20		N	N

CMBF 10-20NN = Crystal MBF filter, 10 micron, 20 inches, No End Caps, No Gaskets or O-Rings

CRYSTAL MBF NOMINAL LENGTH					
Micron	5"	10"	20"	30"	40"
1	\$2.45	\$3.55	\$7.14	\$10.73	\$14.36
3	\$2.45	\$3.55	\$7.14	\$10.73	\$14.36
5	\$2.45	\$3.55	\$7.14	\$10.73	\$14.36
10	\$2.45	\$3.55	\$7.14	\$10.73	\$14.36
20	\$2.45	\$3.55	\$7.14	\$10.73	\$14.36
30	\$2.39	\$3.48	\$6.99	\$10.51	\$14.04
50	\$2.39	\$3.48	\$6.99	\$10.51	\$14.04
75	\$2.39	\$3.48	\$6.99	\$10.51	\$14.04

Note: 50" available for Pallet quantities only — RFQ
 15 filters per box, 15 boxes per pallet, total of 225 filters per pallet — minimum order

MBC™ Series Depth Filter Cartridges

MBC NOMENCLATURE INFORMATION						
Filter Type	Retention Rating (microns)		Nominal Length (inches)		End Configuration	Gasket or O-Ring
MBC Series	1	20	-5	-29.25	P Double Open End (Hard Endcaps)	B Buna-N
	3	30	-9.75	-30	P2 226/Flat Single Open End	E EPDM
	5	50	-10	-39	P3 222/Flat Single Open End	N None
	10	75	-19.5	-40	P5 222/Spring Single Open End	S Silicone
					P6 Self-Seal Spring on One End	T Teflon encap. Viton (O-Rings only)
					P7 226/Fin Single Open End	V Viton
					P8 222/Fin Single Open End	
					P15 DBG/Spring Single Open End	
					P28 222 w/3 tabs/Fin Single Open End	
					PX Extended Core (Cut Ends)	
PX* Flat Gasket/Flat Gasket w/Extended Core ¹						
N None (Cut Ends)						
DBG Direct Bond Santoprene Gaskets						
AM Single Open End, Internal O-Ring						
Example: MBC 10-20NN						
MBC	10		-20		N	N

MBC 10-20NN = MBC filter, 10 micron, 20 inches, No End Caps, No Gaskets or O-Rings

¹Need a gasket material for the *

MBC NOMINAL LENGTH							
Micron	5"	10"	20"	30"	40"		
1	\$3.52	\$4.43	\$8.97	\$13.46	\$18.33		
3	\$3.52	\$4.43	\$8.97	\$13.46	\$18.33		
5	\$3.52	\$4.43	\$8.97	\$13.46	\$18.33		
10	\$3.52	\$4.43	\$8.97	\$13.46	\$18.33		
20	\$3.52	\$4.43	\$8.97	\$13.46	\$18.33		
30	\$3.36	\$4.18	\$8.60	\$12.86	\$17.52		
50	\$3.36	\$4.18	\$8.60	\$12.86	\$17.52		
75	\$3.36	\$4.18	\$8.60	\$12.86	\$17.52		
End Cap Adders (Other than NN Style)			O-Ring/Gasket Adders				
P, P3, P8	\$7.50	P6	\$3.65	PX*	\$9.00	Teflon Encapsulated Viton . . .	\$18.00
P2, P7, P28	\$9.95	P15	\$6.65	AM	\$7.50	Viton Gaskets	\$20.00
P5	\$6.65	PX	\$1.50	DBG	\$3.00	Viton O-Rings	\$10.00

Stratum® A Series Depth Filter Cartridges

STRATUM A NOMENCLATURE INFORMATION							
Product Series	Retention Rating (microns)		Nominal Length (inches)		End Configuration		Gasket or O-Ring
STA Series	0.3	20	-5	-29.25 ¹	P	Double Open End (Hard Endcaps)	B Buna-N
	0.5	30	-9.75	-30	P2	226/Flat Single Open End	E EPDM
	1	50	-10	-39 ¹	P3	222/Flat Single Open End	N None
	3	70	-19.5 ¹	-40	P5	222/Spring Single Open End	S Silicone
	5	100	-20		P6	Self-Seal Spring on One End	T Teflon encap. Viton (O-Rings only)
	10				P7	226/Fin Single Open End	V Viton
					P8	222/Fin Single Open End	
					P15	DBG/Spring Single Open End	
					P28	222 w/3 tabs/Fin Single Open End	
					PX	Extended Core (Cut Ends)	
				PX*	Flat Gasket/Flat Gasket w/Extended Core ²		
				N	None (Cut Ends)		
				DBG	Direct Bond Santoprene Gaskets		
				AM	Single Open End, Internal O-Ring		
Example: STA 0.5-30NN							
STA	0.5		-30		N		N

STA 0.5-30NN = Stratum A filter, 0.5 micron, 30 inches, Cut Ends, No Gasket or O-Ring

¹Not available in AM style ²Need a gasket material for the *

STRATUM A NOMINAL LENGTH						
Micron	5"	10"	20"	30"	40"	
0.3	\$33.06	\$41.38	\$82.81	\$124.21	\$165.65	
0.5	\$30.64	\$38.31	\$76.65	\$115.03	\$153.37	
1	\$22.64	\$28.30	\$56.65	\$85.00	\$113.34	
3	\$19.98	\$24.98	\$49.98	\$75.02	\$100.01	
5	\$17.31	\$21.63	\$43.31	\$64.92	\$86.69	
10	\$15.96	\$19.98	\$39.97	\$59.99	\$80.00	
20	\$14.64	\$18.29	\$36.63	\$54.98	\$73.32	
30	\$11.94	\$14.96	\$29.97	\$44.99	\$59.99	
50	\$10.62	\$13.29	\$26.63	\$39.97	\$53.32	
70	\$10.62	\$13.29	\$26.63	\$39.97	\$53.32	
100	\$10.62	\$13.29	\$26.63	\$39.97	\$53.32	
End Cap Adders (Other than NN Style)			O-Ring/Gasket Adders			
P, P3, P8	\$7.50	P6	\$3.65	PX*	\$9.00	Teflon Encapsulated Viton . . . \$18.00
P2, P7, P28	\$9.95	P15	\$6.65	AM	\$7.50	Viton Gaskets \$20.00
P5	\$6.65	PX	\$1.50	DBG	\$3.00	Viton O-Rings \$10.00

Note: Chipwich size available at 60% of 10" price (6 piece minimum purchase).
 For Pall Housing choose 1.7" DBG style. For Cuno test housing choose 1.2" DBG style.

Stratum® C Series Depth Filter Cartridges

STRATUM C NOMENCLATURE INFORMATION							
Product Series	Retention Rating (microns)		Nominal Length (inches)		End Configuration		Gasket or O-Ring
STC Series	0.5	20	-5	-29.25 ¹	P	Double Open End (Hard Endcaps)	B Buna-N
	1	50	-9.75	-30	P2	226/Flat Single Open End	E EPDM
	3	75	-10	-39 ¹	P3	222/Flat Single Open End	N None
	5	100	-19.5 ¹	-40	P5	222/Spring Single Open End	S Silicone
	10		-20		P6	Self-Seal Spring on One End	T Teflon encap. Viton (O-Rings only)
					P7	226/Fin Single Open End	V Viton
					P8	222/Fin Single Open End	
					P15	DBG/Spring Single Open End	
					P28	222 w/3 tabs/Fin Single Open End	
					PX	Extended Core (Cut Ends)	
				PX*	Flat Gasket/Flat Gasket w/Extended Core ²		
				N	None (Cut Ends)		
				DBG	Direct Bond Santoprene Gaskets		
				AM	Single Open End, Internal O-Ring		
Example: STC 5-10P3V							
STC	5		-10		P3		V

STC 5-10P3V = Stratum C filter, 5 micron, 10 inches, 222/Flat, Viton

¹Not available in AM style ²Need a gasket material for the *

STRATUM C NOMINAL LENGTH							
Micron	5"	10"	20"	30"	40"		
0.5	\$7.95	\$9.98	\$19.98	\$29.96	\$39.97		
1	\$6.63	\$8.30	\$16.62	\$24.98	\$33.32		
3	\$6.27	\$7.86	\$15.78	\$23.74	\$31.63		
5	\$5.93	\$7.45	\$14.96	\$22.46	\$29.96		
10	\$5.93	\$7.45	\$14.96	\$22.46	\$29.96		
20	\$5.93	\$7.45	\$14.96	\$22.46	\$29.96		
50	\$5.28	\$6.63	\$13.29	\$19.98	\$26.63		
75	\$5.28	\$6.63	\$13.29	\$19.98	\$26.63		
100	\$5.28	\$6.63	\$13.29	\$19.98	\$26.63		
End Cap Adders (Other than NN Style)			O-Ring/Gasket Adders				
P, P3, P8	\$7.50	P6	\$3.65	PX*	\$9.00	Teflon Encapsulated Viton . . .	\$18.00
P2, P7, P28	\$9.95	P15	\$6.65	AM	\$7.50	Viton Gaskets	\$20.00
P5	\$6.65	PX	\$1.50	DBG	\$3.00	Viton O-Rings	\$10.00

Note: Chipwich size available at 60% of 10" price (6 piece minimum purchase).
 For Pall Housing choose 1.7" DBG style. For Cuno test housing choose 1.2" DBG style.

RTEC™ G Series Resin Bonded Filter Cartridges

RTEC G NOMENCLATURE INFORMATION									
Product Series	Retention Rating (microns)		Length (inches)		End Configuration		Gasket or O-Ring		Option
RTEC G Series	1	50	-3.75	-29.25	N	None	N	None	-P Polypropylene Core
	5	75	-9.75	-30					-R 304SS Core
	10	125	-10	-39					
	25	150	-19.5	-40					
			-20						
Example: RTEC G 5-20NN									
RTEC G	5		-20		N		N		

RTEC G 5-20NN = RTEC G filter, 5 micron, 20 inches, No End Caps, No Gaskets or O-Rings

RTEC G NOMINAL LENGTH					
Grade	3.75"	9.75"/10"	19.5"/20"	29.25"/30"	39"/40"
1	\$18.30	\$22.87	\$45.82	\$68.74	\$91.69
5	\$15.68	\$19.60	\$39.26	\$58.94	\$78.56
10	\$15.39	\$19.24	\$38.58	\$57.94	\$77.30
25	\$15.39	\$19.24	\$38.58	\$57.94	\$77.30
50	\$15.39	\$19.24	\$38.58	\$57.94	\$77.30
75	\$16.09	\$20.11	\$40.25	\$60.40	\$80.57
125	\$16.09	\$20.11	\$40.25	\$60.40	\$80.57
150	\$16.09	\$20.11	\$40.25	\$60.40	\$80.57
Adders					
304SS Core	\$10.00 per 10"		PP Core	\$0.50 per 10"	
.	\$8.00 for 3.25"		\$0.40 for 3.25"	

TPE Filter Cartridges

TPE NOMENCLATURE INFORMATION

Filter Type	Material	Retention Rating (microns)		Nominal Length (in)	End Configuration	Gasket or O-Ring
TPE Series 60 mm Diameter	S 316 Stainless Steel	0.5	10	-5	P Double Open End (Hard Endcaps)	B Buna-N
		1	15	-9.75		E EPDM
	T Titanium	5	35	-10	P2 226/Flat Single Open End	N None
				-20	P3 222/Flat Single Open End	S Silicone
				-30	M1 3/4 Inch MNPT Threads	T Teflon encaps. Viton (O-Rings only)
		-40	M2 1 Inch MNPT Threads	T Teflon Gasket		
					V Viton	
Example: TPET 5-40M1N						
TPE	T	5		-40	M1	N

TPET 5-40M1N = TPE filter, Titanium, 5 micron, 40 inches, 3/4 Inch MNPT Threads, No Gaskets or O-Rings

TPE — TITANIUM

Micron	5"	10"	20"	30"	40"
0.5	\$146.81	\$183.69	\$366.94	\$551.14	\$734.87
1	\$134.36	\$167.94	\$335.92	\$503.89	\$671.91
5	\$134.36	\$167.94	\$335.92	\$503.89	\$671.91
10	\$134.36	\$167.94	\$335.92	\$503.89	\$671.91
15	\$134.36	\$167.94	\$335.92	\$503.89	\$671.91
35	\$134.36	\$167.94	\$335.92	\$503.89	\$671.91

TPE — 316 STAINLESS STEEL

Micron	5"	10"	20"	30"	40"
0.5	\$172.67	\$215.84	\$431.75	\$647.67	\$863.57
1	\$167.33	\$209.17	\$418.37	\$627.54	\$836.80
5	\$167.33	\$209.17	\$418.37	\$627.54	\$836.80
10	\$167.33	\$209.17	\$418.37	\$627.54	\$836.80
15	\$167.33	\$209.17	\$418.37	\$627.54	\$836.80
35	\$167.33	\$209.17	\$418.37	\$627.54	\$836.80

Adders

Teflon Encapsulated Viton	\$18.00	Viton Gaskets	\$20.00
Teflon Gaskets	\$35.00	Viton O-Rings	\$10.00

Terms and Conditions of Sale

- 1. ENTIRETY.** These Terms and Conditions of Sale and all documents referenced herein (collectively, the "Terms") are the only terms and conditions which govern the sale of goods ("Goods") and/or services ("Services" and together with Goods, the "Deliverables") by Graver Technologies, LLC ("Seller") to the buyer ("Buyer") and supersede all other terms and conditions, oral or written, and all other communications between the parties suggesting additional or different terms. These Terms represent the final and complete understanding of the parties and may be amended or cancelled only by mutual written agreement. Acceptance is expressly limited to these Terms. Any proposal for additional or different terms or any attempt by Buyer to vary these Terms is hereby deemed material and is objected to and rejected. No terms of any document or form submitted by Buyer shall be effective to alter or add to these Terms. The earlier of Seller's commencement of performance or Buyer's receipt of any of the Deliverables shall constitute acceptance of these Terms.
- 2. PRICES.** Prices quoted are in U.S. Dollars and based on the price at the time of quotation and are subject to change without notice. Clerical errors are subject to correction without liability.
- 3. TAXES.** Prices do not include any sales, use, excise, privilege, ad valorem, or other taxes, duties, tariffs or assessments now or hereafter imposed or levied ("Taxes") by or under the authority of any foreign, federal, state, provincial, or local law, rule, or regulation (collectively, "Law") concerning the Deliverables or the manufacture or sale thereof. If Seller pays any such Taxes, Buyer shall, upon demand, immediately reimburse Seller for such amounts.
- 4. TERMS OF PAYMENT.** Unless otherwise provided on invoice, all payments are due within 30 days from date of invoice. Orders are subject to acceptance in writing by Seller. All payments shall be made without abatement, deduction, discount or setoff. Late payments are subject to a service charge of the lesser of 1.5% per month or the highest rate permitted under applicable Law. Buyer shall be liable for all costs and expenses related to collection of past due amounts, including, without limitation, attorneys' fees and costs. If, in Seller's judgment, the financial condition of Buyer does not justify continuance on the terms of payment above, Seller may require full or partial payment in advance or otherwise adjust the terms including ceasing to supply Buyer.
- 5. DELIVERY.** Unless otherwise provided in writing, delivery shall be made EXW Seller's facility and title and risk of loss passes to Buyer at such time. Delivery/performance dates are estimates only. Seller shall not be liable for any claim, loss, expense, or damage of any kind whatsoever for delays, or loss or damage in transit. Claims for loss or damage shall be made solely against the carrier. Seller may, in its sole discretion, without liability or penalty, make partial shipments of Goods to Buyer. Each shipment will constitute a separate sale, and Buyer shall pay for the units shipped whether such shipment is in whole or partial fulfillment of Buyer's purchase order.
- 6. INSPECTION.** Buyer shall inspect the Goods upon receipt and Services upon performance, and Buyer shall immediately notify Seller in writing of any claims that the Deliverables are different than identified in Buyer's purchase order whereupon Seller shall determine the remedy pursuant to Section 12. Failure to give such written notice upon receipt will constitute irrevocable acceptance by Buyer of all Deliverables.
- 7. CHANGES OR CANCELLATION.** Changes in specifications or designs to any Deliverables, changes in delivery or performance schedules or reschedules or cancellations of orders are not permitted unless Seller has accepted same in writing, has determined the additional charge to be made, if any, and the same has been paid by the Buyer. Once ordered, deliverables that are made to order, discontinued or custom products ("Special Order Goods") may not be cancelled by Buyer. Seller reserves the right to cancel any purchase orders or releases thereunder, or terminate any agreement relating to purchase of Seller's Deliverables, upon 10 days' notice to Buyer.
- 8. RETURNS.** Goods may not be returned without prior written authorization of Seller and compliance with Seller's return policies and procedures then in effect.
- 9. STORAGE.** In the absence of agreed shipping dates, Seller may invoice Buyer and ship the Deliverables once they are ready for shipment. If, because of Buyer's inability to take delivery on a mutually agreed delivery date, the Deliverables are not shipped, stopped in transit or returned, Seller may store them for Buyer at Buyer's expense and title and risk of loss shall pass to Buyer when the Deliverables are placed in storage and such date shall constitute the date of shipment for purposes of beginning the warranty and payment periods.
- 10. SERVICE TERMS.** (a) Services will be provided at Seller's then current service rates; (b) If the site is not prepared for the Services upon Seller's arrival, Seller may charge a service fee and for any delay and/or travel time; (c) Buyer shall provide Seller with advance notice of any rules, requirements and Laws; (d) Seller may refuse, without any liability, to provide Services and to allow Seller service personnel to suspend Services or vacate any site where, in Seller's opinion, provision of Services would pose a risk to the safety of any person. In such event, Buyer is responsible for payment of any delay and/or travel time at Seller's regular service rates; (e) Buyer is solely liable for all damages or injuries caused or contributed to by Buyer that may occur; and (f) Buyer must provide at least 72 hours' notice of cancellation of any Service order. If Buyer cancels with less than 72 hours' notice, Buyer is responsible for any costs incurred by Seller caused by such cancellation.
- 11. INSURANCE.** Buyer shall, at its own expense, maintain and carry insurance in full force and effect which includes, but is not limited to, commercial general liability (including product liability) in a sum no less than \$2 million per occurrence, \$2 million products-completed operations aggregate and \$2 million general aggregate with insurance carriers having an AM Best rating of "A-VIII" or better. Upon Seller's request, Buyer shall provide Seller with a certificate of insurance from Buyer's insurer evidencing the insurance coverage specified in these Terms. Buyer shall provide Seller with 30 days' advance written notice in the event of a cancellation or material reduction of coverage in Buyer's insurance policy. Except where prohibited by law, Buyer shall waive, and shall require its insurer to waive, all rights of subrogation against Seller's insurers and Seller.
- 12. LIMITED WARRANTIES.** Unless otherwise provided by Seller in its written warranty, Seller warrants that (i) Goods designed and manufactured by Seller will be free from defects in material and workmanship at delivery; and (ii) Services will be performed in a timely and competent manner in accordance with industry standards. THESE ARE SELLER'S ONLY WARRANTIES. SELLER DISCLAIMS ALL OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY, NON-INFRINGEMENT AND FITNESS FOR A PARTICULAR PURPOSE. If during the warranty period, Buyer notifies Seller in writing that the Deliverables are not in conformity with the warranty and Seller agrees, after Seller's inspection (at its option), then: (a) for Goods, Seller will repair, replace or refund the total amount received by Seller therefor, at its sole option, provided Buyer returns such Goods to Seller's plant for inspection; and (b) for Services, Buyer's sole remedy is for Seller, at its sole option, to re-perform the Services or credit Buyer's account therefor. These shall be Buyer's exclusive remedies for Seller's liability. Any claims not made during the warranty period are deemed waived. Seller's warranty does not attach to Deliverables or parts not manufactured by Seller. Any contract created between Seller and Buyer is subject to the specific conditions that (a) Seller is not obligated to provide insurance or indemnify Buyer, and (b) there are no flow-downs from any person or entity including the federal government that become part of the contract. Upon the occurrence of any event described in Section 14(e)(i)-(vi) without the prior written consent of Seller, this warranty shall be void.
- 13. LIMITATION OF LIABILITY.** SELLER SHALL NOT BE LIABLE TO BUYER OR ANY OTHER PERSON OR ENTITY FOR ANY INCIDENTAL, CONSEQUENTIAL, EXEMPLARY, PUNITIVE OR SPECIAL DAMAGES OR ANY OTHER LOSSES, DAMAGES OR EXPENSES WHETHER ARISING OUT OF BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE) OR OTHERWISE, REGARDLESS OF WHETHER SUCH DAMAGES WERE FORESEEABLE AND WHETHER OR NOT SELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, AND NOTWITHSTANDING THE FAILURE OF ANY AGREED OR OTHER REMEDY OF ITS ESSENTIAL PURPOSE. IN NO EVENT SHALL SELLER BE LIABLE FOR ANY AMOUNT IN EXCESS OF THE PRICE RECEIVED BY SELLER FOR THE DELIVERABLES WITH RESPECT TO WHICH SUCH LIABILITY IS CLAIMED.
- 14. INDEMNIFICATION.** Buyer shall defend, indemnify and hold Seller, its affiliates and their respective officers, directors, members, managers, representatives, agents and employees harmless from and against all claims, suits, demands, losses, liabilities, damages (including injury and death) and expenses (including reasonable attorneys' fees) (collectively, "Losses"), arising out of or relating to: (a) Buyer's or its agents provided specifications, design, structure, operation, material or method of making Deliverables ("Buyer's Specifications"), including without limitation, any resulting violation of intellectual property or proprietary rights; (b) Buyer's use, misuse or disposal of Deliverables or materials; (c) Buyer's non-compliance with any Law; (d) breach of these Terms by Buyer; and (e) Deliverables subjected to: (i) improper installation or storage; (ii) accident, damage, abuse or misuse; (iii) abnormal operating conditions or applications; (iv) operating conditions or applications above the rated capacity of the Deliverables; (v) repairs or modifications made to all or part of the Deliverables without the prior written consent of Seller; or (vi) a use or application other than or varying in any degree from the specifications and Seller's instructions.
- 15. PATENTS.** Provided Buyer has made all payments due Seller, Seller shall defend any suit brought against Buyer based upon a claim that the Deliverables infringe any United States patent issued as of the date of Seller's quotation and shall pay any damages and costs finally awarded therein against Buyer, provided that Seller is notified promptly in writing of such suit and is given full authority, information and assistance by Buyer to defend or settle the suit. Notwithstanding anything to the contrary, Seller will have no liability to the extent that the suit is based upon: (i) modifications to any item made by or on behalf of the Buyer in a manner that causes the infringement; (ii) use of any item in combination with the Deliverables that causes the infringement; (iii) the failure of the Buyer to use corrections or enhancements to the Deliverables that are made available by Seller; (iv) Buyer's Specifications; (v) Buyer's distribution, marketing or use for the benefit of third parties of the Deliverables; or (vi) use not authorized under these Terms. If the Deliverables or any part thereof are deemed to infringe any such patent, Seller shall, at its expense and sole option either: (a) procure for Buyer the right to continue using said Deliverables or part; (b) replace them with non-infringing Deliverables or parts; (c) modify them so they become non-infringing; or (d) remove them and refund the purchase price for them depreciated over no more than 3 years.
- 16. TOOLING.** In no event shall Buyer have any interest in any tools, jigs, dies, patterns, etc. (collectively, "Tooling") which is made or obtained for the production of the Deliverables. Such Tooling shall remain the property of Seller.
- 17. CONFIDENTIALITY.** All non-public or proprietary information of Seller, including all IP, quotations and pricing information, is confidential, solely for the use in performing hereunder and may not be disclosed, used or copied unless authorized by Seller in writing.
- 18. INTELLECTUAL PROPERTY.** All drawings, know-how, designs, specifications, inventions, devices, developments, processes, copyrights, trademarks, patents and applications therefor, and other information or intellectual property disclosed or otherwise provided to Buyer by Seller and all rights therein (collectively, "IP") are and will remain the property of Seller. Buyer shall have no claim to, nor ownership interest in, any IP and such information, in whatever form and any copies thereof, shall be promptly returned to Seller upon written request from Seller. Buyer acknowledges that no license or rights of any sort are granted to Buyer hereunder in respect of any IP, other than the limited right to use the Deliverables purchased from Seller.
- 19. EXPORT COMPLIANCE.** Any items provided by Seller are controlled by the United States Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the United States Government or as otherwise authorized by U.S. Law and regulation.
- 20. FORCE MAJEURE.** Seller shall not be liable for any delay in or failure to perform due to any event or contingency beyond its reasonable control (an event of "Force Majeure"), including acts of God, epidemics, acts of war whether declared or undeclared, blockades, labor disputes (whether of Seller's employees or the employees of others), raw material shortages and material increases in costs of raw materials, including those material increases in costs resulting from the imposition of tariffs. In the event of Force Majeure, the time for performance will extend for such time as reasonably necessary to enable Seller to perform. Seller may, during any period of shortage due to any of the above circumstances, allocate its available supply of Deliverables among itself and its purchasers in such manner as Seller, in its sole judgement, deems fair and equitable.
- 21. TERMINATION.** Seller shall have the right to cease work or terminate these Terms or any purchase order, in whole or in part, at any time, without liability, if: (i) Buyer breaches or defaults under these Terms or any other agreement it has with Seller; (ii) a petition under any applicable law relating to bankruptcy, insolvency, or reorganization is filed by or against Buyer; (iii) Buyer executes an assignment for benefit or creditors; (iv) a receiver is appointed for Buyer or any substantial part of its assets; or (v) Seller shall have any reasonable ground for insecurity with respect to Buyer's ability to perform and Buyer is unable to provide Seller with adequate assurance within 10 days after written request therefor by Seller. In all cases, Seller's rights are cumulative, are not exclusive and in addition to all other rights and remedies it may have at law or in equity. No termination shall affect any accrued rights or obligations of either party as of the effective date of such termination.
- 22. WAIVER.** All waivers by Seller shall be in writing. Failure of Seller at any time to require Buyer's performance of any obligation hereunder shall not affect Seller's right to require performance of that obligation. No delay or omission in the exercise of any right, power, or remedy hereunder shall impair such right, power, or remedy or be considered to be a waiver of any default or acquiescence therein.
- 23. GOVERNING LAW.** Any dispute arising out of or related to these Terms will be governed by and construed in accordance with the laws of the State of Illinois without regard to any rules on conflicts of laws and exclusively litigated in either (i) a state or federal court located in Cook County, Illinois, or (ii) a state or federal court located in the state of Seller's principal place of business, at Seller's sole discretion.
- 24. SEVERABILITY.** The unenforceability or invalidity of any clause in these Terms shall not have an impact on the enforceability or validity any other clause in these Terms. Any unenforceable or invalid clause shall be regarded as removed from these Terms to the extent of its unenforceability and invalidity.
- 25. MISCELLANEOUS.** Buyer shall not assign any of its rights or obligations under these Terms or any purchase order without Seller's prior written consent. Buyer shall comply with all applicable laws. There are no third-party beneficiaries. Provisions which by their nature should survive will remain in force after any termination or expiration of any sale of Deliverables. The section headings are included solely for the convenience of the parties.