



# Compression Packing Seals



Packing materials are calendared and oven-dried to help make the packing more dense so that fewer adjustments are required. Lubricated seals keep the packing from spinning with the shaft during break-in. Can be cut and formed into individual rings to act as a seal in pumps or valves. See chart for pump and valve performance limits.



**GFO**  
**4RTL4**



**Aramid**  
**4RTA1**

Key	Palmetto Style	Description	Temp. Range (°F)	Max. Temp. in Steam (°F)	Max. Press. (psi) Pumps	Max. Press. (psi) Valves	Max. Press. (psi) Steam	Max. Shaft Speed (ft./min.)	pH Range
<b>GENERAL SERVICE - General service for water pumps &amp; light- to medium-duty</b>									
A	1030AF	General water pump service, composite packing w/ graphite, Novoloid & aramid. Dull gray.	-400 to +600	NR	200	1200	NR	2000	3 to 11
B	1347AF	General service, white synthetic packing w/ PTFE	-10 to +450	NR	500	NR	NR	2300	2 to 12
C	1392S	General service, composite packing w/ PTFE. Brown.	-10 to +400	NR	400	NR	NR	1200	2 to 12
<b>GENERAL SERVICE- PTFE/graphite packings for general service w/ faster shaft speeds and/or light slurry</b>									
D	1382	Expanded PTFE w/ graphite for corrosive chemicals & slurry service. Dull black.	-400 to +550	NR	300	NR	NR	3800	0 to 14
E	1389	100% GFO® expanded PTFE w/ graphite for corrosive chemicals & slurry service. Dull black.	-400 to +550	NR	300	NR	NR	4300	0 to 14
<b>ABRASIVE / SLURRY Abrasive/slurry packing for demanding applications in mining, dredging, oil sand, asphalt &amp; wastewater</b>									
F	PE1000	Black graphited aramid w/ lube for high pressure reciprocating & abrasive slurry. Dull black.	-400 to +550	NR	800	NR	NR	2500	1 to 13
G	1350	Yellow para-aramid for high pressure & abrasive slurry applications	-10 to +500	NR	500	NR	NR	2500	3 to 11
H	1359	Expanded PTFE w/ graphite, aramid corners extrusion resistant slurry packing. Dull black.	-10 to +500	NR	700	NR	NR	2700	3 to 11
I	1371	White meta-aramid for high pressure, abrasive slurry, paper mill applications	-10 to +550	NR	500	NR	NR	2000	1 to 14

Square (in.)	5 ft Item No.	10 ft Item No.	25 ft Item No.	Square (in.)	5 ft Item No.	10 ft Item No.	25 ft Item No.	Square (in.)	5 ft Item No.	10 ft Item No.	25 ft Item No.	Square (in.)	5 ft Item No.	10 ft Item No.	25 ft Item No.	Square (in.)	5 ft Item No.	10 ft Item No.	25 ft Item No.
<b>(A) 1030AF Novoloid/Aramid with Graphite</b>				<b>(C) 1392S Novoloid/Aramid with PTFE</b>				<b>(E) 1389 100% GFO(TM) Expanded PTFE with Graphite</b>				<b>(G) 1350 Para-Aramid</b>				<b>(I) 1371 Meta-Aramid</b>			
1/8 in	4RTV4	4RTV5	4RTV6	1/8 in	4RTY4	4RTY5	4RTY6	1/8 in	4RTL4	4RTL5	4RTL6	1/8 in	4RTA1	4RTA2	4RTA3	1/8 in	4RRX1	4RRX2	4RRX3
3/16 in	4RTW7	4RTW8	4RTW9	3/16 in	4RTZ7	4RTZ8	4RTZ9	3/16 in	4RTL7	4RTL8	4RTL9	3/16 in	4RTA4	4RTA5	4RTA6	3/16 in	4RRX4	4RRX5	4RRX6
1/4 in	4RTW1	4RTW2	4RTW3	1/4 in	4RTZ1	4RTZ2	4RTZ3	1/4 in	4RTN1	4RTN2	4RTN3	1/4 in	4RTA7	4RTA8	4RTA9	1/4 in	4RRX7	4RRX8	4RRX9
5/16 in	4RTW4	4RTW5	4RTW6	5/16 in	4RTZ4	4RTZ5	4RTZ6	5/16 in	4RTN4	4RTN5	4RTN6	5/16 in	4RTC4	4RTC5	4RTC6	5/16 in	4RRY4	4RRY5	4RRY6
3/8 in	4RTW7	4RTW8	4RTW9	3/8 in	4RTZ7	4RTZ8	4RTZ9	3/8 in	4RTN7	4RTN8	4RTN9	3/8 in	4RTC7	4RTC8	4RTC9	3/8 in	4RRY7	4RRY8	4RRY9
1/2 in	4RTX1	4RTX2	4RTX3	1/2 in	4RTZ10	4RTZ11	4RTZ12	1/2 in	4RTN10	4RTN11	4RTN12	1/2 in	4RTD1	4RTD2	4RTD3	1/2 in	4RRZ1	4RRZ2	4RRZ3
5/8 in	4RTX4	4RTX5	4RTX6	5/8 in	4RTZ13	4RTZ14	4RTZ15	5/8 in	4RTN13	4RTN14	4RTN15	5/8 in	4RTD4	4RTD5	4RTD6	5/8 in	4RRZ4	4RRZ5	4RRZ6
3/4 in	4RTX7	4RTX8	4RTX9	3/4 in	4RTZ16	4RTZ17	4RTZ18	3/4 in	4RTN16	4RTN17	4RTN18	3/4 in	4RTD7	4RTD8	4RTD9	3/4 in	4RRZ7	4RRZ8	4RRZ9
<b>(B) 1347AF Acrylic/PTFE</b>				<b>(D) 1382 Expanded PTFE with Graphite</b>				<b>(F) PE1000 Graphited Aramid</b>				<b>(H) 1359 Expanded PTFE with Graphite and Aramid Corners</b>							
1/8 in	4RUC4	4RUC5	4RUC6	1/8 in	4RTR4	4RTR5	4RTR6	1/8 in	4RRP7	4RRP8	4RRP9	1/8 in	4RRU7	4RRU8	4RRU9				
3/16 in	4VKF1	4VKF2	4VKF3	3/16 in	4RTR7	4RTR8	4RTR9	3/16 in	4RRR1	4RRR2	4RRR3	3/16 in	4RRV1	4RRV2	4RRV3				
1/4 in	4VKF4	4VKF5	4VKF6	1/4 in	4RTR10	4RTR11	4RTR12	1/4 in	4RRR4	4RRR5	4RRR6	1/4 in	4RRV4	4RRV5	4RRV6				
5/16 in	4VKF7	4VKF8	4VKF9	5/16 in	4RTR13	4RTR14	4RTR15	5/16 in	4RRR7	4RRR8	4RRR9	5/16 in	4RRV7	4RRV8	4RRV9				
3/8 in	4VKG1	4VKG2	4VKG3	3/8 in	4RTR16	4RTR17	4RTR18	3/8 in	4RRR10	4RRR11	4RRR12	3/8 in	4RRW1	4RRW2	4RRW3				
1/2 in	4VKG4	4VKG5	4VKG6	1/2 in	4RTR19	4RTR20	4RTR21	1/2 in	4RRR13	4RRR14	4RRR15	1/2 in	4RRW4	4RRW5	4RRW6				
5/8 in	4VKH1	4VKH2	4VKH3	5/8 in	4RTR22	4RTR23	4RTR24	5/8 in	4RRR16	4RRR17	4RRR18	5/8 in	4RRW7	4RRW8	4RRW9				
3/4 in	4VKH4	4VKH5	4VKH6	3/4 in	4RTR25	4RTR26	4RTR27	3/4 in	4RRR19	4RRR20	4RRR21	3/4 in	4RRW10	4RRW11	4RRW12				

# Compression Packing Seals



Can be cut and formed into individual rings, to act as seals in pumps or valves. See chart for pump and valve performance limits.



**Graphite**  
**4VLE4**

Key	Palmetto Style	Description	Temp. Range (°F)	Max. Temp. in Steam (°F)	Max. Press. (psi) Pumps	Max. Press. (psi) Valves	Max. Press. (psi) Steam	Max. Shaft Speed (ft./min.)	pH Range
<b>FOOD / CHEMICAL</b>									
A	1367FS	FDA compliant PTFE white packing w/ mineral oil lubrication	-400 to +500	NR	250	NR	NR	1200	0 to 14
B	1367S	PTFE white packing w/ lubrication (MIL-P-24396, Type A) for corrosive chemicals, pumps, & mixers	-400 to +500	+500	250	NR	NR	1200	0 to 14
<b>HIGH SPEED / TEMP</b>									
C	1555	Graphite filament packing w/ graphite for high-temp. & high-speed applications w/ good sealability. Dull gray color.	-450 to +800	+1200	500	3500	3500	4000	1 to 14
D	1575	Carbon is good for high temps. & high shaft speeds	-450 to +650	1000	500	2500	2500	4000	0 to 14
E	1578	Carbon/PTFE for high temps. & high shaft speeds	-450 to +650	1200	500	2500	NR	4000	0 to 14
F	5000	Braided flexible graphite packing w/ no wire for high speed & temps. Shiny gray color.	-450 to +650	+1200	250	2500	2500	4000	0 to 14
G	5080	Flexible graphite packing w/ carbon corners for high speed & temps. provides for low leakage in pumps & valves. Shiny gray color.	-400 to +650	+1200	500	3000	3000	4000	0 to 14
<b>VALVES</b>									
<b>Valve packing</b>									
H	1367H	PTFE white packing without lubrication (MIL-P-24396, Type B) used w/ valves in corrosive, pressure-resistant non-steam applications	-400 to +500	NR	NR	2000	NR	NR	0 to 14
I	5000W	Flexible graphite packing w/ a small amount of Inconel wire for steam valves. Shiny gray color.	-100 to +650	+1200	NR	3500	3500	NR	1 to 14

Square (in.)	5 ft Item No.	10 ft Item No.	25 ft Item No.	Square (in.)	5 ft Item No.	10 ft Item No.	25 ft Item No.	Square (in.)	5 ft Item No.	10 ft Item No.	25 ft Item No.	Square (in.)	5 ft Item No.	10 ft Item No.	25 ft Item No.	Square (in.)	5 ft Item No.	10 ft Item No.	25 ft Item No.
<b>(A) 1367FS PTFE</b>				<b>(C) 1555 Graphite Filament with Graphite</b>				<b>(E) 1578 Carbon Packing with PTFE (Continuous Filament)</b>				<b>(G) 5080 Flexible Graphite Packing with Carbon Corners</b>				<b>(I) 5000W Flexible Graphite Packing with Inconel Wire</b>			
1/8 in	4RTH1	4RTH2	4RTH3	1/8 in	4VLE4	4VLE5	4VLE6	1/8 in	12N804	12P726	12P727	1/8 in	4VKR1	4VKR2	4VKR3	1/8 in	4VLL4	4VLL5	4VLL6
3/16 in	4RTH4	4RTH5	4RTH6	3/16 in	4VLE7	4VLE8	4VLE9	3/16 in	12P728	12P729	12P730	3/16 in	4VKR4	4VKR5	4VKR6	3/16 in	4VLL7	4VLL8	4VLL9
1/4 in	4RTH7	4RTH8	4RTH9	1/4 in	4VLE10	4VLE11	4VLE12	1/4 in	12P731	12P732	12P733	1/4 in	4VKR7	4VKR8	4VKR9	1/4 in	4VLL10	4VLL11	4VLL12
5/16 in	4RTJ1	4RTJ2	4RTJ3	5/16 in	4VLE13	4VLE14	4VLE15	5/16 in	12P734	12P735	12P736	5/16 in	4VK11	4VK12	4VK13	5/16 in	4VLL13	4VLL14	4VLL15
3/8 in	4RTJ4	4RTJ5	4RTJ6	3/8 in	4VLE16	4VLE17	4VLE18	3/8 in	12P737	12P738	12P739	3/8 in	4VK14	4VK15	4VK16	3/8 in	4VLL16	4VLL17	4VLL18
1/2 in	4RTJ7	4RTJ8	4RTJ9	1/2 in	4VLE19	4VLE20	4VLE21	1/2 in	12P740	12P741	12P742	1/2 in	4VK17	4VK18	4VK19	1/2 in	4VLL19	4VLL20	4VLL21
5/8 in	4RTK1	4RTK2	4RTK3	5/8 in	4VLE22	4VLE23	4VLE24	5/8 in	12P743	12P744	12P745	5/8 in	4VKU1	4VKU2	4VKU3	5/8 in	4VLL21	4VLL22	4VLL23
3/4 in	4RTK4	4RTK5	4RTK6	3/4 in	4VLE25	4VLE26	4VLE27	3/4 in	12P746	12P747	12P748	3/4 in	4VLU1	4VLU2	4VLU3	3/4 in	4VLL23	4VLL24	4VLL25
1 in	4RTK7	4RTK8	4RTK9	1 in	4VLE28	4VLE29	4VLE30	1 in	12P749	12P750	12P751	1 in	4VLU4	4VLU5	4VLU6	1 in	4VLL25	4VLL26	4VLL27
1 1/4 in	4RTL1	4RTL2	4RTL3	1 1/4 in	4VLE31	4VLE32	4VLE33	1 1/4 in	12P752	12P753	12P754	1 1/4 in	4VLU7	4VLU8	4VLU9	1 1/4 in	4VLL27	4VLL28	4VLL29
<b>(B) 1367S PTFE</b>				<b>(D) 1575 Carbon Packing with Graphite (Continuous Filament)</b>				<b>(F) 5000 Flexible Graphite</b>				<b>(H) 1367H PTFE</b>							
1/8 in	4RTE1	4RTE2	4RTE3	1/8 in	12N773	12N774	12N775	1/8 in	4VKU4	4VKU5	4VKU6	1/8 in	4VLR4	4VLR5	4VLR6				
3/16 in	4RTE4	4RTE5	4RTE6	3/16 in	12N776	12N777	12N778	3/16 in	4VKU7	4VKU8	4VKU9	3/16 in	4VLR7	4VLR8	4VLR9				
1/4 in	4RTE7	4RTE8	4RTE9	1/4 in	12N779	12N780	12N781	1/4 in	4VKV1	4VKV2	4VKV3	1/4 in	4VLT1	4VLT2	4VLT3				
5/16 in	4RTF1	4RTF2	4RTF3	5/16 in	12N782	12N783	12N784	5/16 in	4VKV4	4VKV5	4VKV6	5/16 in	4VLT4	4VLT5	4VLT6				
3/8 in	4RTF4	4RTF5	4RTF6	3/8 in	12N785	12N786	12N787	3/8 in	4VKV7	4VKV8	4VKV9	3/8 in	4VLT7	4VLT8	4VLT9				
1/2 in	4RTF7	4RTF8	4RTF9	1/2 in	12N788	12N789	12N790	1/2 in	4VKW1	4VKW2	4VKW3	1/2 in	4VLU1	4VLU2	4VLU3				
5/8 in	4RTG1	4RTG2	4RTG3	5/8 in	12N791	12N792	12N793	5/8 in	4VKW4	4VKW5	4VKW6	5/8 in	4VLU4	4VLU5	4VLU6				
3/4 in	4RTG4	4RTG5	4RTG6	3/4 in	12N794	12N795	12N796	3/4 in	4VKW7	4VKW8	4VKW9	3/4 in	4VLU7	4VLU8	4VLU9				
1 in	4RTG7	4RTG8	4RTG9	1 in	12N797	12N798	12N799	1 in	4VKX1	4VKX2	4VKX3	1 in	4VLU10	4VLU11	4VLU12				
1 1/4 in	4RTG10	4RTG11	4RTG12	1 1/4 in	12N801	12N802	12N803	1 1/4 in	4VKX4	4VKX5	4VKX6	1 1/4 in	4VLU13	4VLU14	4VLU15				