FG Series Cable Seals

Prevent oil wicking with bearing embedment sensors

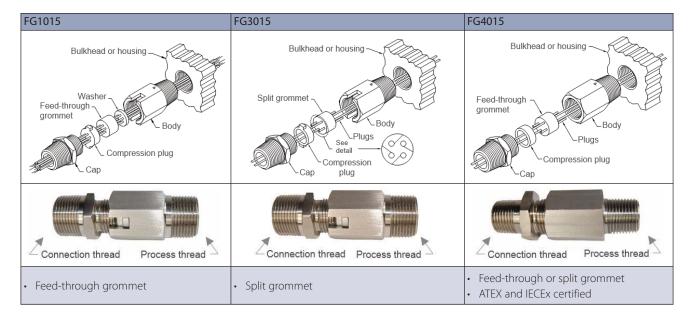


Overview

Minco's FG series cable seals prevent oil wicking with bearing embedment sensors in rotating equipment. They were specifically designed for use with Minco's innovative elastomer filled cables to prevent oil wicking along the sensor cable. FG series seals can also be used to seal around individual leadwires and rigid tubing. The seals include a grommet that provides a tight seal and also allows adjustment of the cable or leadwire position.

Configurations

FG series cable seals are available in three configurations, all of which perform the same basic function of providing an adjustable, oil-tight seal on Minco elastomer filled cables, leadwires, rigid probes or feed-through tubing.



Installation

The split grommet fits over the cable where access to the cable ends isn't practical. The feed-through grommet requires the cables to be threaded through the grommet. Tightening the fitting compresses the grommet, forming the seal. To adjust the position of the cables in the seal, simply loosen the fitting to decompress the grommet and pull the wire or cable through the grommet to the desired position and retighten the fitting.

Note:

- Plugs are provided to fill unused holes on 6-hole and split grommets.
- Insulated leadwires must be used; do not use bare stranded leadwires.
- Wires must be oil sealed on sensor end.

Specifications

Fitting material	Stainless steel (303 or 316)
Grommet material	Fluoroelastomer or Neoprene
Temperature range	Fluoroelastomer:
(grommet)	-40 to 90°C (-40 to 194°F)
	Neoprene: -40 to 75°C (-40 to 167°F)
Pressure	50 psi (3.4 bar) at 20°C
Ingress protection	IP65/IP66
rating*	
ATEX and IECEx	ATEX (Ex) II 2 G Ex d e llc Gb
certification*	IECEx Ex d e llc Gb

^{*}FG4014 and FG4015 only

▼= STANDARD OPTIONS

Specifications subject to change

Ordering Information

FG products can be ordered as complete assemblies or as piece parts (fitting body and grommet kit separately).

Cable Seal Assemblies

To configure your assembly, select from the options listed below to determine the complete assembly part number. Use the code shown in **bold** for each selection. Assemblies include fitting body, grommet and compression plugs, and washer (1015).

FG1015	Model number: ▼FG1015: Cable seal assembly (feed-through grommet) ▼FG3015: Cable seal assembly (split grommet) ▼FG4015: Cable seal assembly (feed-through grommet, certified) ▼FG4015: Cable seal assembly (feed-through grommet, certified - add S to end of part number for certified version)							
P1		Pipe thread code:						
	Code	Code Connection		Process thread		Overal length		
	▼ P1	1/2" 14	NPT 3/4"		14 NPT	3.25"	1-1/8"	
	▼ P2	3/4" 14	NPT					
	▼ P3	1/2" 14	NPT 1/2"		14 NPT			
	▼ P4	3/4" 14	1 NPT					
	P5	NONE		1/2" 14 NPT		2.50"		
	P6				14 NPT			
	P7	1/2" 14			14 NPT	3.25"		
	P8	,	(FEMALE)		14 NPT	2 25"	4.2/0"	
	P9	(FEMA	" 14 NPT MALE)		14 NPT	3.35"	1-3/8"	
SS	Fitting material: ▼SS = Stainless steel, type 303 ST = Stainless steel, type 316							
1V130	Grom	met hole	quanti	ty, m	aterial and	size:		
	Hole qty.		le.			Grom- met	Cable/ conductor Ø	
	9.7.	Neo- prene	Fluoro			hole	range	
		1015, 4015	1015, 4015	, , , , , , , , , , , , , , , , , , ,		٧		
	1		▼1V1	30		0.130"	0.100" to 0.130"	
			▼1V1	60	1V160	0.160"		
			▼1V2		1V220	0.220"		
	2	2N130	▼2V1			0.130"		
		2N160	▼2V1			0.160"		
		2N190 2N220	2V1 2V2		2V220	0.190"		
	3	3N130	3V1		27220	0.220		
	٥	314130	3V1			0.130		
		3N190	3V1		▼3V190			
	4				▼4V100	0.100"		
			▼4V 1	30	▼4V130	0.130"	0.100" to 0.130"	
			▼4V 1	60	▼4V160	0.160"	0.130" to 0.160"	
	6 6N050 V6V050 V6V050 0.050" 0.030" to 0.050"							
					umber			

Specifications subject to change

Fitting Body/Cap Only

To configure your fitting body/cap, select from the options listed below to determine the complete part number. Use the code shown in **bold** for each selection. Fitting bodies do not include grommet and compression plugs, and washer.

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FG1014	Model number: FG1014: Cable seal fitting body only FG4014: Cable seal fitting body only (ATEX)					
P1	Pipe thread code:					
	Code	Connection thread	Process thread	Overall length	Connection hex size	
	P1	1/2" 14 NPT	3/4" 14 NPT	3.25"	1-1/8"	
	P2	3/4" 14 NPT				
	Р3	1/2" 14 NPT	1/2" 14 NPT			
	P4	3/4" 14 NPT				
	P5	NONE	1/2" 14 NPT	2.50"		
	P6		3/4" 14 NPT			
	P7	1/2" 14 NPT	1/2" 14 NPT	3.25"		
	P8	(FEMALE)	3/4" 14 NPT			
	P9	3/4" 14 NPT (FEMALE)	3/4" 14 NPT	3.35"	1-3/8"	
SS	Fitting material: SS = Stainless steel, type 303 ST = Stainless steel, type 316					
FG1014P1SS = Sample part number						

Grommet Kits

To configure your grommet kit, select from the options listed below to determine the complete part number. Use the code shown in **bold** for each selection. Kits include grommet and compression plugs, and washer (1015).

AC1015	Kit type: AC1015 = Feed-through grommet AC3015 = Split grommet design AC4015 = Feed-through grommet, certified AC4015 = Split grommet design, certified (add S to end of part number to receive split grommet version)						
H1V130	Grommet hole quantity, material and size:						
	Hole	Material Grommet Cable/conductor					
	qty.	Neo- prene	Fluoro- elastom	er	hole Ø	Ø range	
		1015, 4015	1015, 4015	3015			
	H1		1V130		0.130"	0.100" to 0.130"	
			1V160	1V160	0.160"	0.130" to 0.160"	
			1V220	1V220	0.220"	0.190" to 0.220"	
	H2	2N130	2V130		0.130"	0.100" to 0.130"	
		2N160	2V160		0.160"	0.130" to 0.160"	
		2N190	2V190		0.190"	0.160" to 0.190"	
		2N220	2V220	2V220	0.220"	0.190" to 0.220"	
	H3	3N130	3V130		0.130"	0.100" to 0.130"	
			3V160		0.160"	0.130" to 0.160"	
		3N190	3V190	3V190	0.190"	0.160" to 0.190"	
	H4			4V100	0.100"	0.080' to 0.100"	
			4V130	0.100" to 0.130"			
	4V160 4V160 0.160" 0.130" to 0.160"						
	H6	6N050	6V050	6V050	0.050"	0.030" to 0.050"	
AC1015H	AC1015H1V130 = Sample part number						

Note: Order the 6-hole version to seal around PTFE-insulated wires.