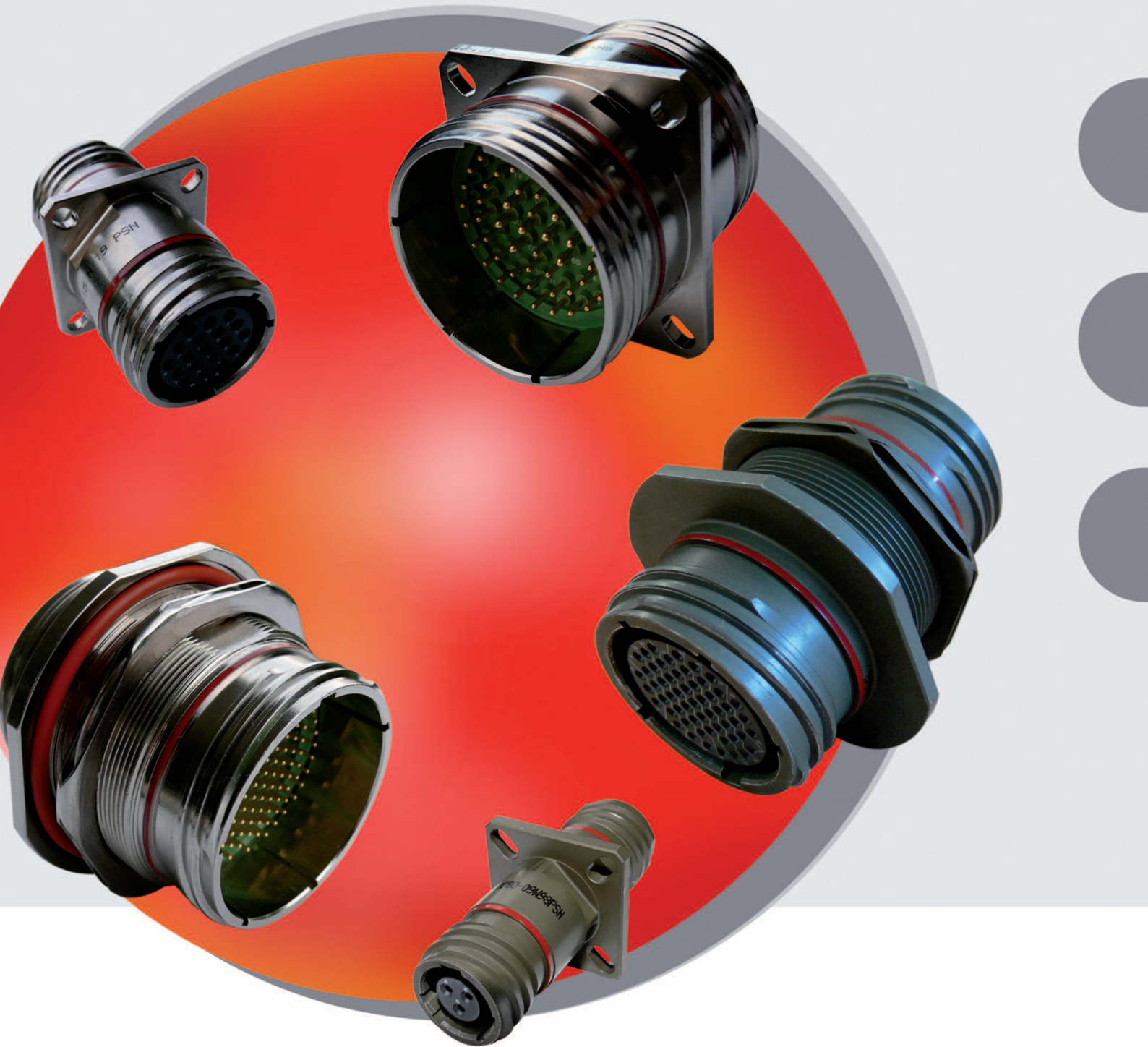
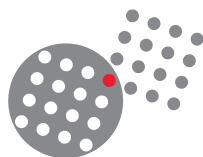




38999 series III Bulkhead Feed-throughs



SOURIAU
Connection Technology

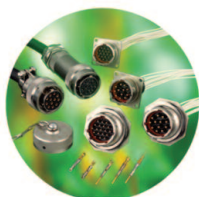
38999 Bulkhead Feed-throughs



SOURIAU

Connectors and interconnect systems for harsh environments

The company designs, manufactures and markets high performance interconnect solutions for severe environments from industrial broadline and universal ranges to complex system with integrated functions: filtering, high speed data transmission, hermetic seal, separation mechanism, remote handling, underwater mating, ...



Industrial



Aeronautical



Equipment & system

The dedicated end markets for SOURIAU's products are aeronautical, defense-space and industrial.



Railway
Geophysics
Manufacturing environment
Instrumentation
Automation & process



Civil & military aircraft
Helicopter
Weapon delivery system
Avionics



Military marine
Communications
Satellites
Launcher & missile

SOURIAU was established in 1917 and has been created by successive acquisitions of the industrial, aeronautical, defense and space activities of SOURIAU, JUPITER and BURNDY.

The Group's products are engineered and manufactured in the USA and Dominican Republic, Europe and Morocco, Japan and India, and sold by a worldwide sales and marketing organization, and in addition to SOURIAU's offices, a large network of licensed distributors and agents.

SOURIAU complies with most of national and international Quality Assurance Standards, production unit with ISO 14001.

**Quality Certificate
Management System**

ISO 9001

**Environment Certificate
Management System**

ISO 14001

**Quality Certificate
Management System**

Aeronautic Industry : EN 9100

38999 Bulkhead Feed-throughs



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Hermetic Glass fused

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Standard reinforced sealing

38999 Bulkhead Feed-throughs



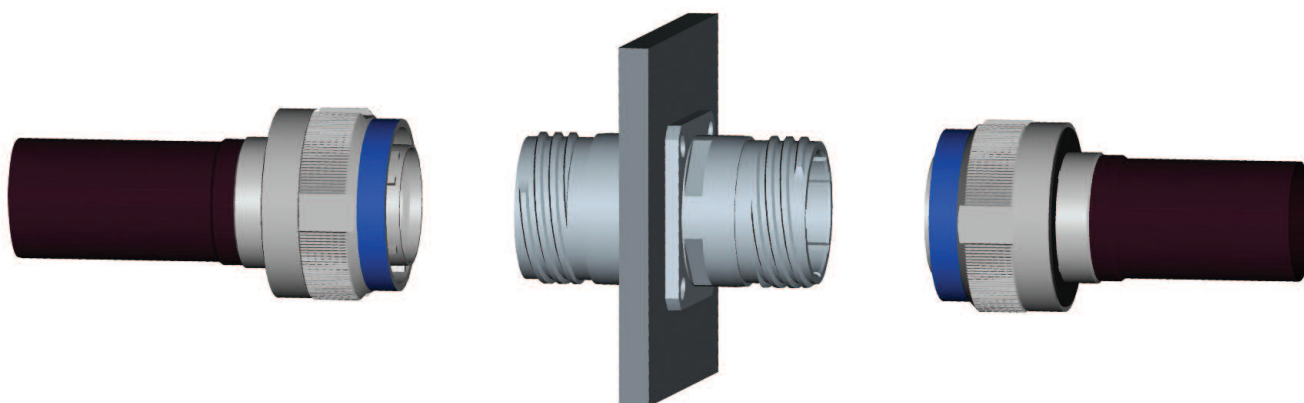
Standard reinforced sealing
38999 series III
Bulkhead Feed-throughs



Product range presentation

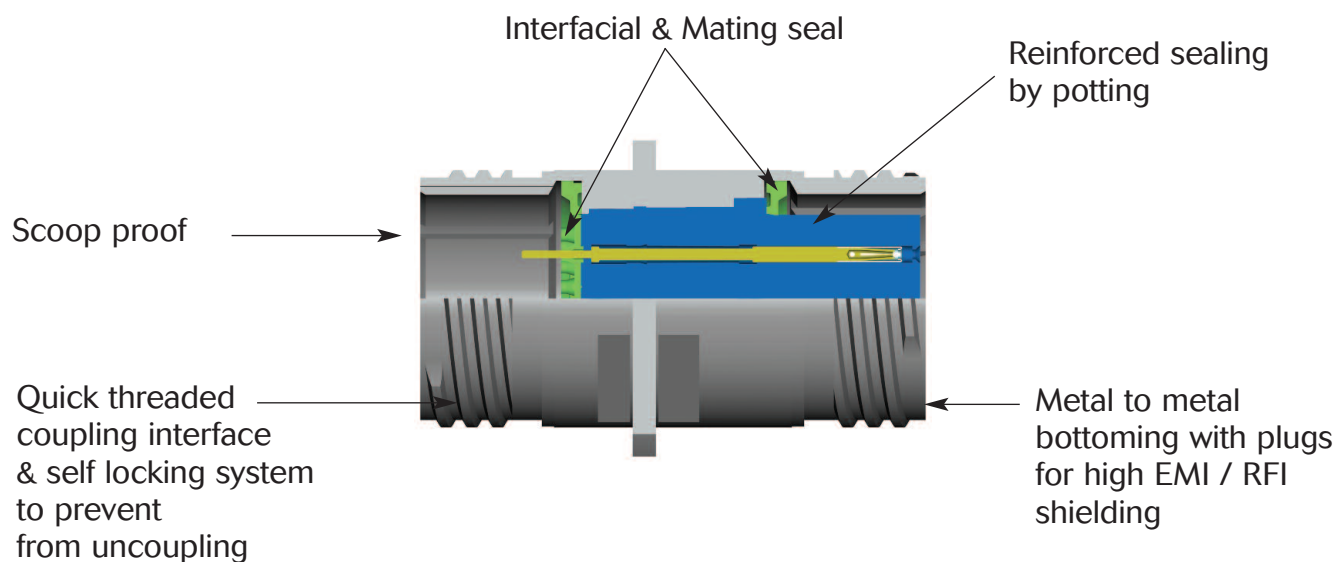
General characteristics

“Double Receptacle” mounted on panel allows cable plug connexion on both sides of the bulkhead:



- Male / female contacts Feed-through
- Standard 38999 sIII mating interface
- Standard 38999 sIII layouts: Contacts from #22 to #8
- Aluminium / Stainless steel / Titanium / Bronze shells
- Standard 38999 mounting interface (Square Flange, Jam Nut)

All 38999 sIII features integrated in Feed-through design





Features & Benefits

Easy integration

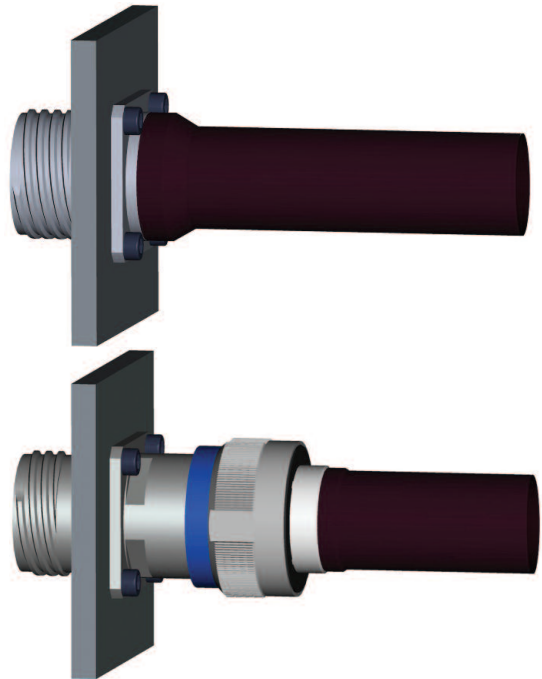
Standard Receptacle configuration:

- Receptacles and harness have to be mounted onboard the application
- Difficult operation when limited access area
- Not applicable to thick panel

Feed-through premounted on Panel:

- Simply mate the cabled plugs
- No fixing operations onboard
- No associated controls onboard (Torque measurement)
- Independent compartment architecture
- Accept panel thickness up to 12 mm

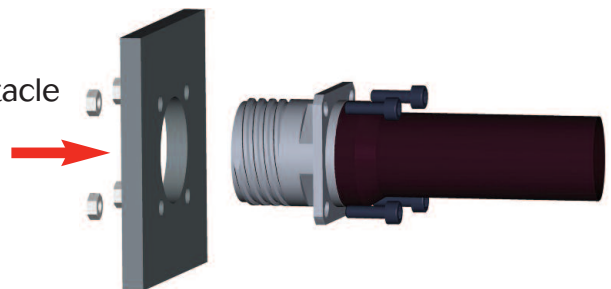
→ **LARGE TIME SAVING DURING DESIGN AND INTEGRATION**



Easy and reliable maintenance

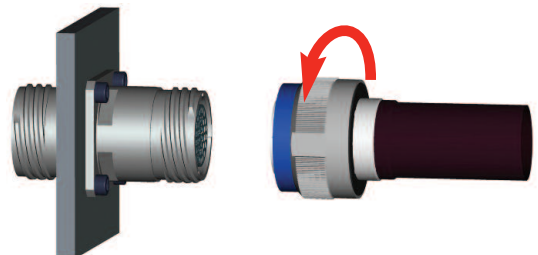
Receptacle and cable plug configuration:

- To dismount harnesses, need to remove receptacle from panel (4 screws or fixing nut)



Feed-through configuration:

- To dismount harnesses, only unmate cabled plug
- No mechanical operation on panel: Ensures structure mechanical integrity



→ **TIME SAVING & LOW RISK DURING MAINTENANCE**

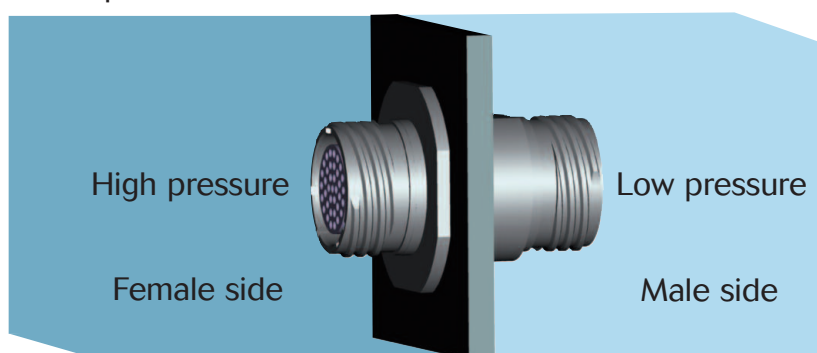


Features & Benefits

Sealing barrier on panel

Souriau feed-throughs create a permanent sealed barrier on your panel:

- “Inside potting” ensures Feed-through sealing even when unmated
- Pressure difference up to 1 bar



Recommended configuration for pressure withstanding

→ **SUITABLE FOR PRESSURIZED OR DEPRESSURIZED AREAS**

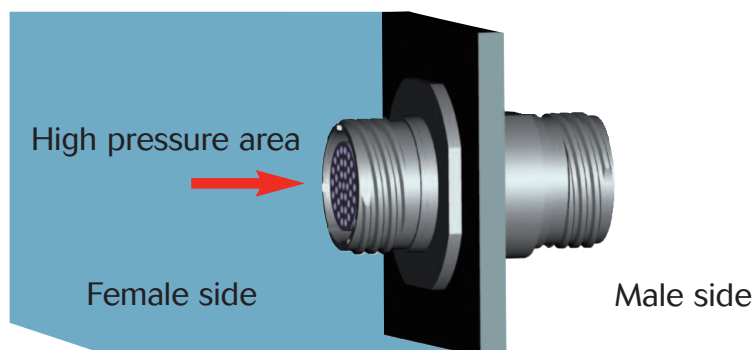
Reinforced sealing

Thanks to a special insulator design:

- Sealing increases with pressure

Sealing reaches hermeticity level of 10^{-6} atm x cm³/s:

- 100 times higher than standard sealing at 10^{-4}



Recommended configuration for pressure withstanding

→ **A SMART ALTERNATIVE TO STAINLESS STEEL GLASS FUSED FEED-THROUGHS:
WEIGHT SAVING**



Description

Main performances

- 38999 Series electric performances
- Vibration: 60 G sine
44 G random
- Temperature range: -65 to +200°C
- Standard reinforced sealing:
< 10⁻⁶ atm x cm³ / s
- High corrosion resistance on demand

Technical features

Mechanical

- Shell: Aluminum alloy
Stainless steel
Titanium
Marine bronze
- Shell plating: Nickel
Olive drab cadmium
Green zinc cobalt
Black zinc nickel
- Insulator: Thermoplastic or thermoset
- Grommet and interfacial seal: Silicone elastomer
- Contacts: Copper alloy
- Contacts plating: Gold over nickel plated
- Endurance: 500 mating/unmating operations
- Shock: High impact as per MIL-S901,
300 G, 3 ms
according EN 2591-D2 method A
- Vibration:
Sine: 10 to 2000 Hz, 3x12 hrs
(60 G, 140 - 2000 Hz)
with temperature cycling
Random: 50 to 2000 Hz, 2x8 h
1 G²/Hz, 100 - 2000 Hz) at T° max.
25 to 2000 Hz, 2x8 h
(5 G²/Hz, 100 - 300 Hz) at ambient T°
Test with accessories in acc with
EN 2591-D3

Resistance to fluids

To MIL-DTL-38999 standard:

- Gasoline: JP5 (OTAN F44)
- Mineral hydraulic fluid: MIL-H-5606
(OTAN H515)
- Synthetic hydraulic fluid: Skydrol 500 B4
- LD4 (SAE AS 1241)
- Mineral lubricating: MIL-L-7870A
(OTAN 0142)
- Synthetic lubricating: MIL-L-23699
(OTAN 0156), MIL-L-7808
- Cleaning fluid: MIL-DTL-25769 diluted
- De-icing fluid: MIL-A-8243
- Extinguishing fluid: Chlorobromethane
- Cooling fluid: Coolanol

Electrical

- Test Voltage rating (Vrms)

Service	Sea level	At 21 000 m
M	1 300 V	800 V
N	1 000 V	600 V
I	1 800 V	1 000 V
II	2 300 V	1 000 V

- Insulation resistance: > 5000 MΩ
(at 500 Vdc)
- EMI enhanced protection by shielding ring
- Contact resistance (as per SAE AS39029):
Wire resistance included in measurement:

Size	
22D	14,6 mΩ
20	7,5 mΩ
16	3,8 mΩ
12	3,5 mΩ
8	3 mΩ

- Contact rating (as per SAE AS39029):

Size	
22D	5 A
20	7,5 A
16	13 A
12	23 A
8	45 A



Technical features (continued)

Electrical & Environmental material and protection properties

	Electrical		Environmental	
	Shell continuity	Shielding	Temperature range	Salt spray
Nickel over Aluminium (F), Nickel over Stainless steel (S), Nickel over Titanium (TF)	1mΩ	65 dB at 10 GHz (for Aluminium (F): 85 dB at 1 GHz)	-65°C + 200°C	48 hours
Green zinc cobalt (Z), Black zinc nickel (L)	Consult us	Consult us	-65°C + 200°C	500 hours
Olive drab cadmium over Aluminium (W)	2,5mΩ	50 dB at 10 GHz	-65°C + 175°C	500 hours
Passivated Stainless steel (K), Titanium Without plating (TT)	10mΩ	45 dB at 10 GHz	-65°C + 200°C	500 hours
Marine Bronze (MB)	5mΩ	85 dB at 10 GHz	-65°C + 175°C	500

- Sealing: mated connectors meet altitude immersion requirements of MIL-DTL-38999
- Uncoupled connector: water proof
- Salt spray: MIL-STD 1344 method 1001
- Damp heat: MIL-DTL 38999 (10 cycles of 24 hours)

Weight comparison

Example for a 38999 plug shell size 15



Connector Part Number / Ordering information

Basic series		8DB	0	-	15	W	35	PS	N	...
Style	0: Square Flange 7: Jam Nut									
Type*	-: Signal and power contacts only (#22D, #20, #16, #12, #10, #8) For layouts including coax, triax & quadrax contacts, please consult us									
Shell size	09 - 11 - 13 - 15 - 17 - 19 - 21 - 23 - 25									
Plating and shell material										
Aluminium shell: W: Olive drab cadmium F: Nickel Z: Green zinc colbalt L: Black zinc nickel										
Stainless steel shell: K: Passivated (High corrosion resistance) S*: Nickel										
Titanium shell: TT: Without plating TF*: Nickel										
Marine Bronze shell: MB										
Contact layouts	See pages 13, 14, 15									
Contact type	PS: Male - female bulkhead PP**: Male - male bulkhead									
Key polarisation	N: Normal A - B - C - D - E (see table page 17, Key Polarisation)									
Specification										

* For these platings, please consult us.

** For PP type, please consult us.



Applications

Civil aircrafts

Thanks to Martin Alexander and Airbus for pictures authorization.



- In between aircraft compartments, with or without pressure difference
- Aircraft racks

Military vehicles



- Rugged applications

Laboratories, industrial glove boxes

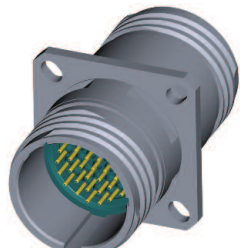
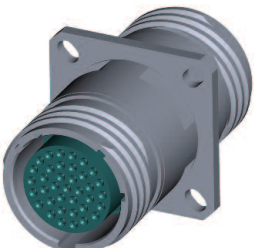


- High level of sealing for glove box applications

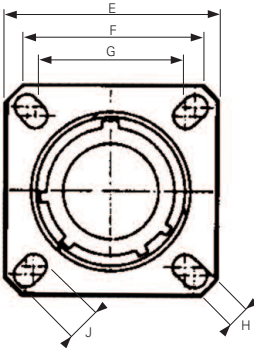
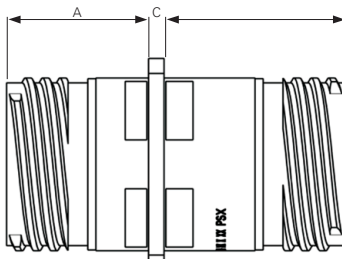


Physical dimensions

Square Flange version



Shell size	A Max	C Max	E ± 0,30	F	G	H ± 0,20	J ± 0,20
9 (A)	20.90	2.50	23.80	18.26	15.09	3.25	5.49
11 (B)	20.90	2.50	26.20	20.62	18.26	3.25	4.93
13 (C)	20.90	2.50	28.60	23.01	20.62	3.25	4.93
15 (D)	20.90	2.50	31.00	24.61	23.01	3.25	4.93
17 (E)	20.90	2.50	33.30	26.97	24.61	3.25	4.93
19 (F)	20.90	2.50	36.50	26.36	26.97	3.25	4.93
21 (G)	20.10	3.20	39.70	31.75	29.36	3.25	4.93
23 (H)	20.10	3.20	42.90	34.93	31.75	3.91	6.15
25 (J)	20.10	3.20	46.00	38.10	34.93	3.91	6.15

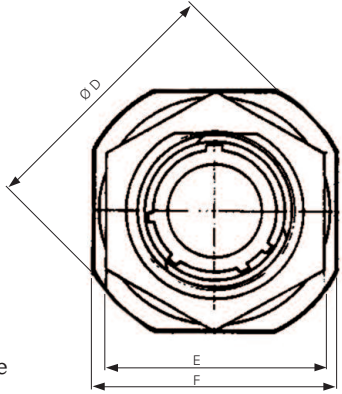
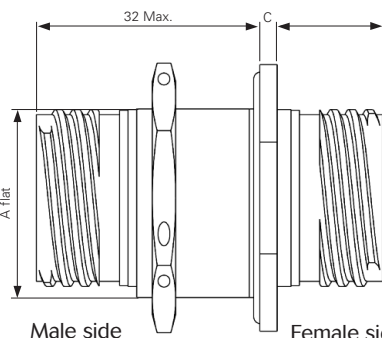


Male side Female side

Jam Nut version



Shell size	A ± 0,15	C Max	D Max	E Max	F ± 0,40
9 (A)	16.53	2.80	30.50	23.00	27.00
11 (B)	19.07	2.80	35.20	26.00	31.80
13 (C)	23.82	2.80	38.40	31.00	34.90
15 (D)	26.97	2.80	41.60	34.00	38.10
17 (E)	30.15	2.80	44.80	37.00	41.30
19 (F)	33.32	3.50	49.50	41.00	46.00
21 (G)	36.50	3.50	52.70	46.00	49.20
23 (H)	39.67	3.50	55.90	47.00	52.40
25 (J)	42.85	3.50	59.00	52.00	55.60

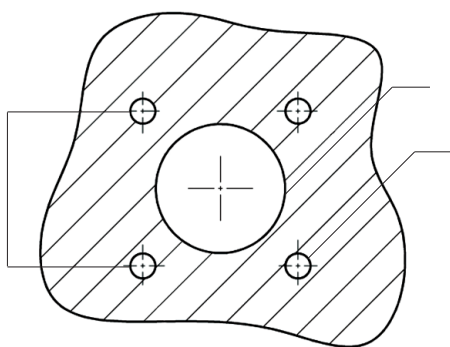


Male side Female side

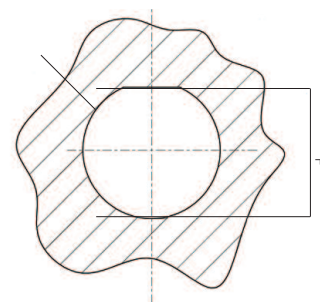


Mounting information

Panel cut-out



Square Flange version

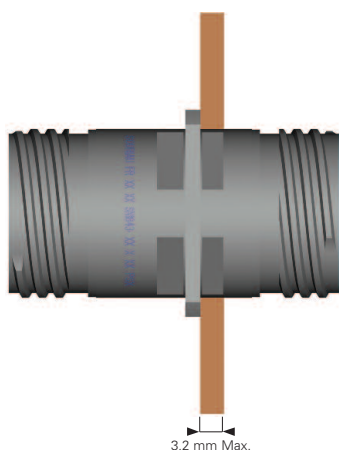


Jam Nut version

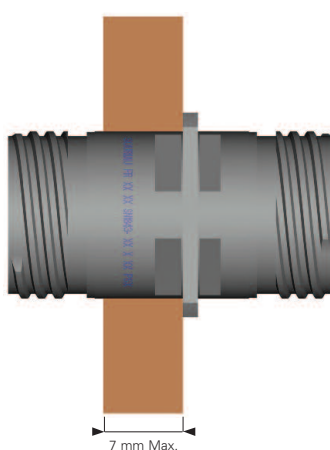
Shell size	A ± 0.25	G	B min.	C ± 0.13
09 (A)	18.26	15.09	16.66	3.25
11 (B)	20.62	18.26	20.22	3.25
13 (C)	23.01	20.62	23.42	3.25
15 (D)	24.61	23.01	26.59	3.25
17 (E)	26.97	24.61	30.96	3.25
19 (F)	29.36	26.97	32.94	3.25
21 (G)	31.75	29.36	36.12	3.25
23 (H)	34.93	31.75	39.29	3.91
25 (J)	38.10	34.94	42.47	3.91

Shell size	E + 0.25	F
09 (A)	17.78	17.02
11 (B)	20.96	19.59
13 (C)	25.65	24.26
15 (D)	28.83	27.56
17 (E)	32.01	30.73
19 (F)	35.18	33.91
21 (G)	38.35	37.08
23 (H)	41.53	40.26
25 (J)	44.70	43.43

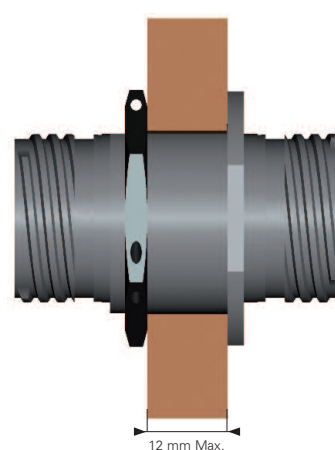
Maximum wall thickness



Square Flange :
Rear mounting



Square Flange :
Front mounting



Jam Nut

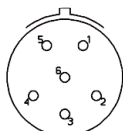
38999 Bulkhead Feed-throughs



Available layouts

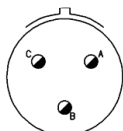
09 (A)

35



6#22D
Service M

98



3#20
Service I



Contact #22D



Contact #8 Triax



Contact #20



Contact #8 Power



Contact #16



Contact #8 Quadrax



Contact #12



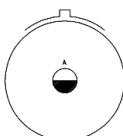
Contact #4 Power



Contact #10

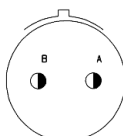
11 (B)

01



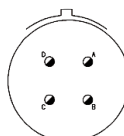
1#12
Service II

02



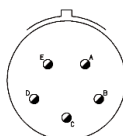
2#16
Service I

04



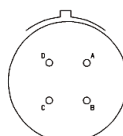
4#20
Service I

05



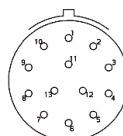
5#20
Service I

22



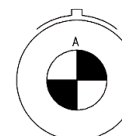
4#22D
Service M

35



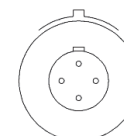
13#22D
Service M

80*



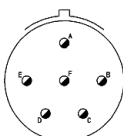
1#8 Triax
Service I

81*



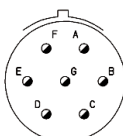
1#8 Quadrax
Service I

98



6#20
Service I

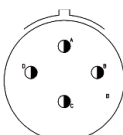
99



7#20
Service I

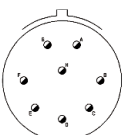
13 (C)

04



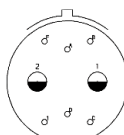
4#16
Service I

08



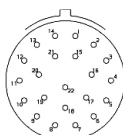
8#20
Service I

26



2#12
6#22D
Service M

35



22#22D
Service M

98



10#20
Service I

* For these layouts, please consult us.

38999 Bulkhead Feed-throughs



Available layouts

15 (D)							
05	15	18	19	35	97	Contact #22D	Contact #8 Triax
						Contact #20	Contact #8 Power
5#16 Service II	1#16 14#20 Service I	18#20 Service I	19#20 Service I	37#22D Service M	4#16 8#20 Service I	Contact #16	Contact #8 Quadrax
						Contact #12	Contact #4 Power
						Contact #10	

17 (E)								
02*	06*	08	20	26	35	75	75*	81*
38#22D 1#8 Triax Service M	6#12 or 6#12 Coax Service I	8#16 Service II	4#12 16#22D Service M	26#20 Service II	55#22D Service M	2#8 Power Service M	2#8 Triax Service M	32#22D 1#8 Quadrax

19 (F)			
11	28	32	35
11#16 Service II	26#20 2#16 Service I	32#20 Service I	66#22D Service M

21 (G)							
11	16	35	39	41	48	75*	84*
11#12 Service I	16#16 Service II	79#22D Service M	2#16 37#20 Service I	41#20 Service I	4#8 Power Service I	4#8 Triax Service M	4 Quadrax

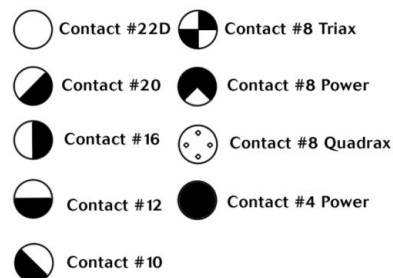
* For these layouts, please consult us.

38999 Bulkhead Feed-throughs



Available layouts

23 (H)				
21	35	53	54	55
21#16	100#22D	53#20	4#12 9#16 40#22D	55#20
Service II	Service M	Service I	Service M	Service I



25 (J)							
04	07*	08*	11*	19	20*	24	29
8#16 48#20	2#8 Triax 97#22D	8#8 Triax	2#20 9#10	19#12	10#20 4#12 Coax 13#16 3#8 Triax	12#16 12#12	29#16
Service I	Service M	Service M	Service N	Service I	Service N	Service II	Service I
35	37	41*	43	46*	61	80*	81*
128#22D	37#16	22#22D 3#20 11#16 2#12 3#8 Triax	23#20 20#16	40#20 4#16 2#8 Triax	61#20	10#20 13#16 4#12 3#8 Quadrax	22#22D 3#20 11#16 2#12 3#8 Quadrax
Service M	Service I	Service M	Service I	Service I	Service I	Service N	Service I
82*	86*	88*					
97#22D 2#8 Quadrax	40#20 4#16 2#8 Quadrax	8 Quadrax					

* For these layouts, please consult us.

38999 Bulkhead Feed-throughs



Contact layouts matrix

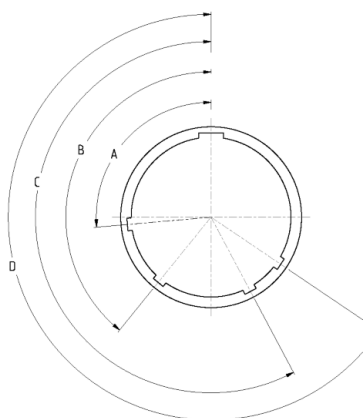
Shell Size	Layout	Service	Number of contacts	#22D	#20	#16	#12	#10	#8
09 (A)	09 - 35	M	6	6					
	09 - 98	I	3		3				
11 (B)	11 - 01	II	1				1		1 Coax
	11 - 01	II	1						
	11 - 02	I	2			2			
	11 - 04	I	4		4				
	11 - 05	I	5		5				
	11 - 12	I	1				1		
	11 - 22	M	4	4					
	11 - 35	M	13	13					
	11 - 80	I	1						1 Triax
	11 - 81	-	1						1 Quadrax
	11 - 98	I	6		6				
13 (C)	13 - 04	I	4			4			
	13 - 08	I	8		8				
	13 - 26	M	8	6			2		
	13 - 35	M	22	22					
	13 - 98	I	10		10				
15 (D)	15 - 05	II	5			5			
	15 - 15	I	15		14	1			
	15 - 18	I	18		18				
	15 - 19	I	19		19				
	15 - 35	M	37	37					
	15 - 97	I	12		8	4			
17 (E)	17 - 02	M	39	38					1 Triax
	17 - 06	I	6				6		
	17 - 08	II	8			8			
	17 - 20	M	20	16			4		
	17 - 26	I	26		26				
	17 - 35	M	55	55					
	17 - 75	M	2						2 or 2 Triax
	17 - 81	-	33	32					1 Quadrax
	17 - 82	-	2						2 Quadrax
19 (F)	17 - 99	I	23		21	2			
	19 - 11	II	11			11			
	19 - 28	I	28		26	2			
	19 - 32	I	32		32				
21 (G)	19 - 35	M	66	66					
	21 - 11	I	11				11		
	21 - 16	II	16			16			
	21 - 35	M	79	79					
	21 - 39	I	39		37	2			
	21 - 41	I	41		41				
	21 - 48	I	4						4 Power
	21 - 75	-	4						4 Triax
23 (H)	21 - 84	-	4						4 Quadrax
	23 - 21	II	21			21			
	23 - 35	M	100	100					
	23 - 53	I	53		53				
	23 - 54	M	53	40		9	4		
25 (E)	23 - 55	I	55		55				
	25 - 04	I	56		48	8			
	25 - 07	M	99	97					2 Triax
	25 - 08	-	8						8 or 8 Triax
	25 - 11	N	11		2			9	
	25 - 19	I	19				19		
	25 - 20	N	30		10	13	4 Coax		3 Triax
	25 - 24	II	24			12	12		
	25 - 29	I	29			29			
	25 - 35	M	128	128					
	25 - 37	I	37			37			
	25 - 41	N	41	22	3	11	2		3 Triax
	25 - 43	I	43		23	20			
	25 - 46	I	46		40	4			2 Coax
	25 - 61	I	61		61				
	25 - 80	N	30		10	13	4		3 Quadrax
	25 - 81	N	41	22	3	11	2		3 Quadrax
	25 - 82	M	99	97					2 Quadrax
	25 - 86	I	46		40	4			2 Quadrax
	25 - 88	-	8						8 Quadrax

38999 Bulkhead Feed-throughs

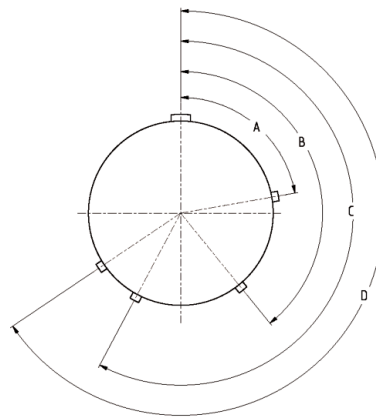


Key polarisation

Male & female sides of feed-through



Standard 38999 corresponding plug
(Souriau part number 8D5*****)



Shell size	Angles	N	A	B	C	D	E
9 (A)	A°	105	102	80	35	64	91
	B°	140	132	118	140	155	131
	C°	215	248	230	205	234	197
	D°	265	320	312	275	304	240
11 (B)	A°	95	113	90	53	119	51
	B°	141	156	145	156	146	141
	C°	208	182	195	220	176	184
	D°	236	292	252	255	298	242
13 (C)	A°	95	113	90	53	119	51
	B°	141	156	145	156	146	141
	C°	208	182	195	220	176	184
	D°	236	292	252	255	298	242
15 (D)	A°	95	113	90	53	119	51
	B°	141	156	145	156	146	141
	C°	208	182	195	220	176	184
	D°	236	292	252	255	298	242
17 (E)	A°	80	135	49	66	62	79
	B°	142	170	169	140	145	153
	C°	196	200	200	200	180	197
	D°	293	310	244	257	280	272
19 (F)	A°	80	135	49	66	62	79
	B°	142	170	169	140	145	153
	C°	196	200	200	200	180	197
	D°	293	310	244	257	280	272
21 (G)	A°	80	135	49	66	62	79
	B°	142	170	169	140	145	153
	C°	196	200	200	200	180	197
	D°	293	310	244	257	280	272
23 (H)	A°	80	135	49	66	62	79
	B°	142	170	169	140	145	153
	C°	196	200	200	200	180	197
	D°	293	310	244	257	280	272
25 (J)	A°	80	135	49	66	62	79
	B°	142	170	169	140	145	153
	C°	196	200	200	200	180	197
	D°	293	310	244	257	280	272

Hermetic Glass fused

38999 Bulkhead Feed-throughs



Hermetic Glass fused
38999 series III
Bulkhead Feed-throughs

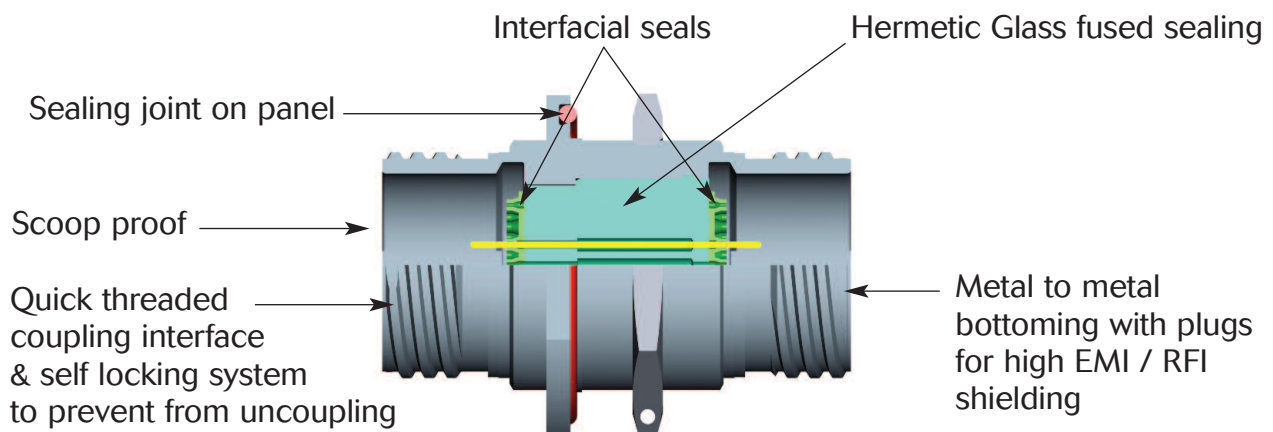
Hermetic Glass fused 38999 Bulkhead Feed-throughs



Product range presentation

General characteristics

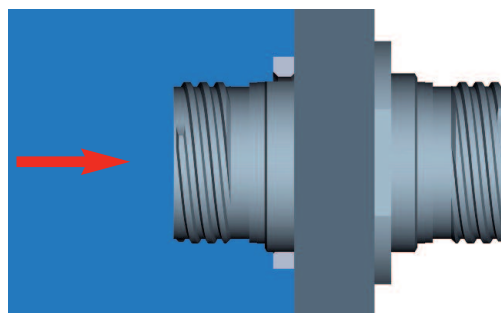
- Male / male contacts Feed-through
- Standard 38999 sIII mating interface
- Standard 38999 sIII layouts: Contacts from #22 to #8
- Stainless steel shell
- Standard 38999 Jam Nut mounting interface
- Same electric, vibration and environment performances as standard reinforced sealing version



Highest level hermetic glass fused sealing

- Sealing reaches hermeticity level of 10^{-8} atm x cm³ / s (10⁴ times higher than standard sealing !)
- O-ring design ensures panel sealing

High pressure area



→ SUITABLE FOR VACUUM CHAMBERS

Hermetic Glass fused 38999 Bulkhead Feed-throughs



Description

Main performances

- 38999 Series electric performances
- Vibration: 44 G random
- Temperature range: -65 to +200°C
- Hermetic Glass fused:
< 10⁻⁸ atm x cm³ / s
- High corrosion resistance on demand

Technical features

Mechanical

- Shell: Stainless steel
- Protection:
Passivated for high corrosion resistance
or Nickel shell plating
- Insulator: Glass fused
- Interfacial seal: Silicone elastomer
- Contacts: Nickel iron alloy
- Contacts plating: Gold over nickel plated
- Endurance: 500 mating/unmating operations
- Shock: Half sine wave of 75 G, 3 ms
- Vibration:
Random: 20 to 100 Hz at 6dB per octave
100 to 2000 Hz constant at 1 G²/Hz
3 axes, 3.5 minutes per axis

Resistance to fluids

To MIL-DTL-38999 standard:

- Gasoline: JP5 (OTAN F44)
- Mineral hydraulic fluid: MIL-H-5606 (OTAN H515)
- Synthetic hydraulic fluid: Skydrol 500 B4
- LD4 (SAE AS 1241)
- Mineral lubricating: MIL-L-7870A (OTAN 0142)
- Synthetic lubricating: MIL-L-23699 (OTAN 0156), MIL-L-7808
- Cleaning fluid: MIL-DTL-25769 diluted
- De-icing fluid: MIL-A-8243
- Extinguishing fluid: Chlorobromethane
- Cooling fluid: Coolanol

Electrical

- Test Voltage rating (Vrms)

Service	Sea level	At 33 000 m
M	1 300 V	250 V
I	1 800 V	Consult us
II	2 300 V	Consult us

- Insulation resistance (at 500 Vdc):
> 5000 MΩ at 25°C
> 1000 MΩ at 200°C
- EMI enhanced protection by shielding ring
- Contact resistance (as per SAE AS39029):
Wire resistance included in measurement:

Size	
22D	60 mΩ
20	30 mΩ
16	15 mΩ
12	8 mΩ
8	3 mΩ

- Contact rating (as per SAE AS39029):

Size	
22D	3 A
20	5 A
16	10 A
12	17 A
8	33 A

Hermetic Glass fused 38999 Bulkhead Feed-throughs



Technical Features (continued)

Electrical & Environmental material and protection properties

	Electrical		Environmental	
	Shell continuity	Shielding	Temperature range	Salt spray
Nickel over Stainless steel (S)	1mΩ	65 dB at 10 GHz	-65°C + 200°C	48 hours
Passivated Stainless steel (K)	10mΩ	45 dB at 10 GHz	-65°C + 200°C	500

- Sealing: mated connectors meet altitude immersion requirements of MIL-DTL-38999
- Uncoupled connector: water proof
- Salt spray: MIL-STD 1344 method 1001
- Damp heat: MIL-DTL 38999 (10 cycles of 24 hours)

Connector Part Number / Ordering Information

Basic series		8DB	7	H	15	K	35	PP	N	...
Style	7: Jam Nut									
Type	Hermetic: Signal and power contacts (#22, #20, #16, #12, #10, #8) For layouts including coax, triax & quadrax contacts, please consult us									
Shell size	15 - 19 - 25									
Plating and shell material										
Stainless Steel shell:		K: Passivated (High corrosion resistance) S: Nickel								
Contact layouts	Please consult us for layout availability									
Contact type	PP: Male - male bulkhead									
Key polarisation	N: normal A - B - C - D - E (see table page 17)									
Specification										

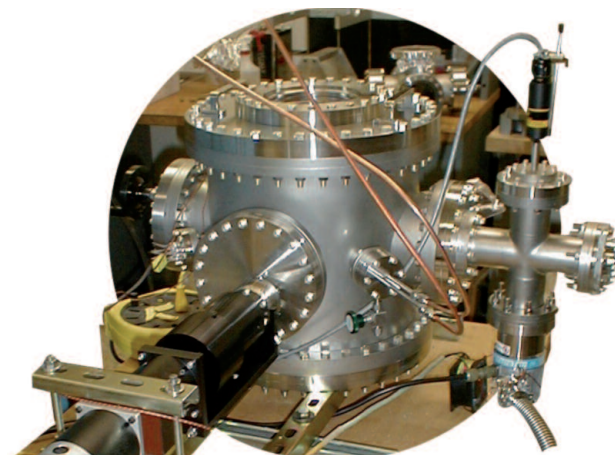
Applications

Critical glove boxes



- High level of sealing for nuclear glove box applications

Laboratories, vacuum chambers



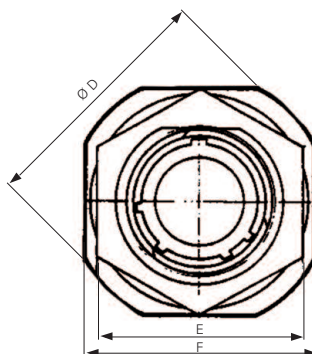
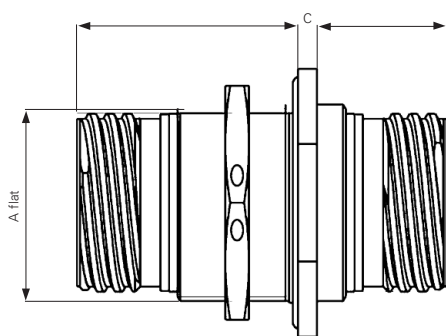
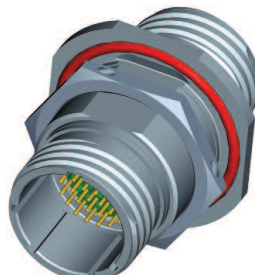
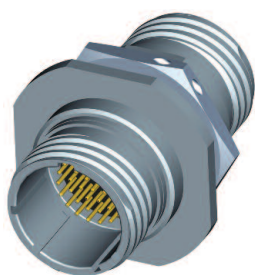
- High level of sealing for vacuum applications

Hermetic Glass fused 38999 Bulkhead Feed-throughs



Physical dimensions

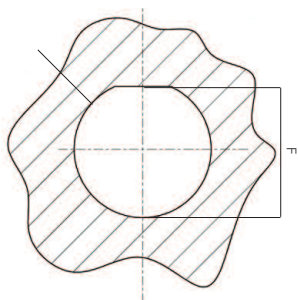
Standard 38999 sIII dimensions



Shell size	A $\pm 0,15$	C Max	D Max	E Max	F $\pm 0,40$
9 (A)	16.53	2.80	30.50	23.00	27.00
11 (B)	19.07	2.80	35.20	26.00	31.80
13 (C)	23.82	2.80	38.40	31.00	34.90
15 (D)	26.97	2.80	41.60	34.00	38.10
17 (E)	30.15	2.80	44.80	37.00	41.30
19 (F)	33.32	3.50	49.50	41.00	46.00
21 (G)	36.50	3.50	52.70	46.00	49.20
23 (H)	39.67	3.50	55.90	47.00	52.40
25 (J)	42.85	3.50	59.00	52.00	55.60

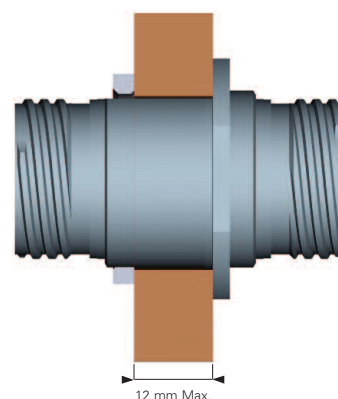
Mouting information

Panel cut-out



Shell Size	E + 0.25	F
09 (A)	17.78	17.02
11 (B)	20.96	19.59
13 (C)	25.65	24.26
15 (D)	28.83	27.56
17 (E)	32.01	30.73
19 (F)	35.18	33.91
21 (G)	38.35	37.08
23 (H)	41.53	40.26
25 (J)	44.70	43.43

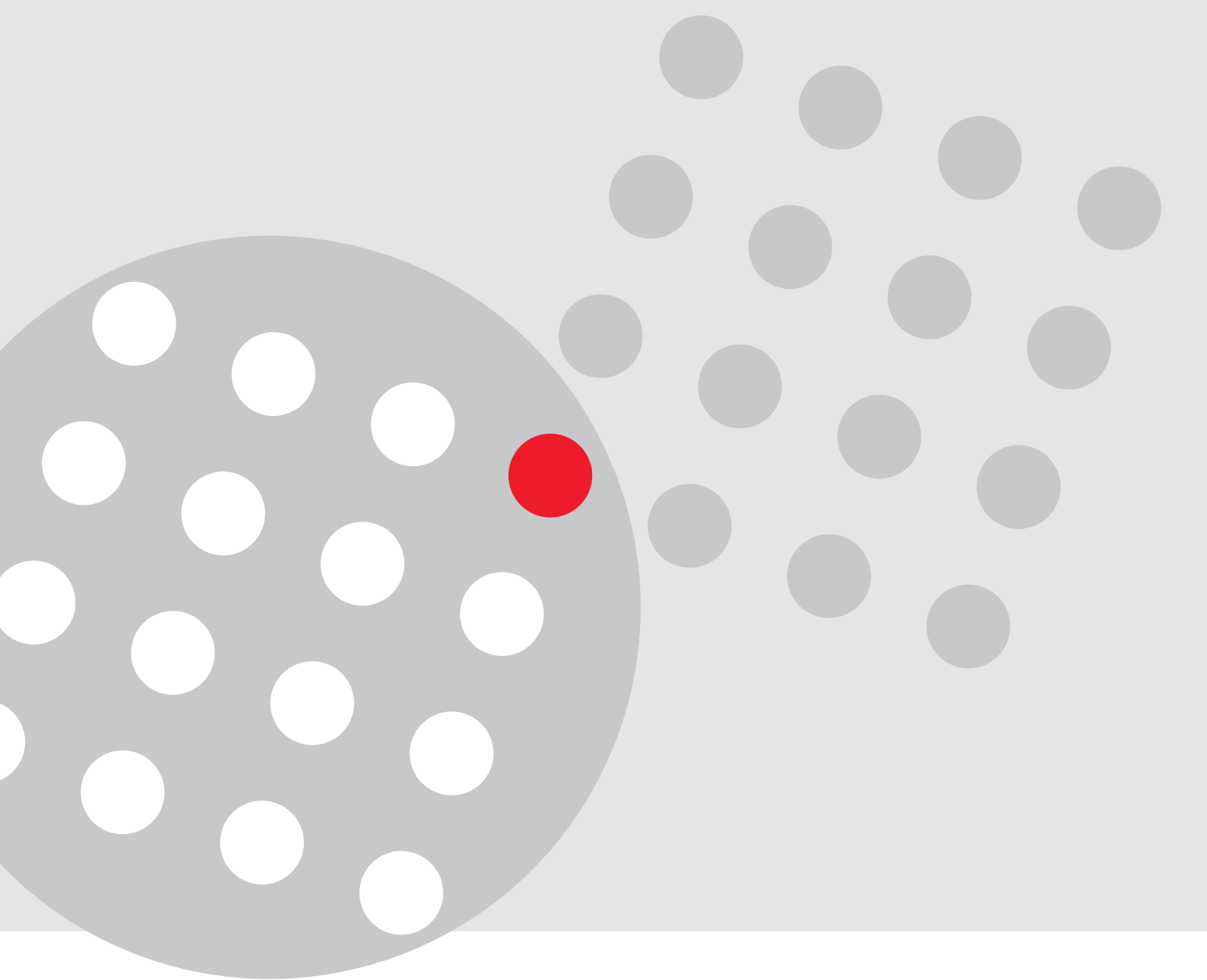
Maximum wall thickness



Available layouts
Key polarisation } refer to pages 13-17



Please consult us



www.souriau.com

