DB Series IIB Unions

Flameproof

Zone 1 and 21 Gas (G) and Dust (D)

Applications

- To be used with a fire retardant seal fitted directly at the entry to the flameproof housing. Enables connection via rigid or flexible
- Used for joining conduit and connecting conduit to enclosures.
- Facilitates modifications, permits the removal of enclosures without turning or removal of conduit.

· Accurately tapped, tapered threads for tight, rigid joints and ground continuity.

Standard Materials

• ZInc plated steel

ATEX/IECEx Certifications and Compliances

- Certification Type BMF BFF
 - Gas: Zone 1
 - Type of Protection: Ex d IIB
 - Dust: Zone 21
 - Type of Protection: Ex tD A21

 - Conforming to ATEX 94/9/CE: ☑ II 2GD
 Operating Temperatures: -20 °C to +60 °C

 - CE Declaration of Conformity: 5C232
 ATEX Certificate: CESI 99 ATEX 034U
 Index of Protection according EN/IEC 60529: IP66/67





500049

500044

Tapered Thread (NPT)	Weight kg	Volume dm ³	Pack	Catalog Number
Male/Female				
1/2"	0.17	0.12	1	500044
3/4"	0.19	0.12	1	500045
1"	0.30	0.23	1	500046
1-1/4"	0.80	0.50	1	500047
1-1/2"	1.00	0.50	1	500048
Female/Female				
1/2"	0.15	0.12	1	500049
3/4"	0.15	0.12	1	500050
1"	0.23	0.23	1	500051
1-1/4"	0.70	0.50	1	500052
1-1/2"	0.37	0.50	1	500053
3"	0.90	2.00	1	500158

DB Series IIC Elbows

Zone 1 and 21 Gas (G) and Dust (D)

Applications

- Used to connect two lengths of conduit.
 Used to make 90° bends in conduit runs.

· Accurately tapped, tapered threads for tight, rigid joints and ground continuity.

Standard Materials

• Aluminum

Features

· Female to female thread.

ATEX/IECEx Certifications and Compliances

- Certification Type ELF
 - Gas: Zone 1
 - Type of Protection: Ex d IIC Gb; Ex e IIC Gb
 - Dust: Zone 21
 - Type of Protection: Ex tb IIIC Db

 - CE Declaration of Conformity: 5C223
 - ATEX Certificate: CESI 01 ATEX 104U
 - IECEx Certificate: IECEx CES 15.0005U
 - Index of Protection according EN/IEC 60529: IP66/67



Tapered Thread	Dimens	Dimensions mm		Volume	Catalog
(NPT)	Α	В	kg	dm³	Number
1/2"	73	57	0.1	0.12	500054
3/4"	73	67	0.1	0.10	500055
1"	92	83	0.2	0.23	500056
1-1/4"	115	84	0.4	0.50	500057
1-1/2"	115	84	0.6	0.50	500058
3"	185	95	0.5	2.00	500059



DB Series IIC Flexible Couplings

Flameproof

Zone 1 and 21 Gas (G) and Dust (D)

Applications

- Used in areas where vibration and/or movement are a problem.
- Used in place of rigid conduit in where it would be difficult to

Standard Materials

• Stainless steel

ATEX/IECEx Certifications and Compliances

- Certification Type FLEXCO
 - Gas: Zones 1
 - Type of Protection: Ex d IIC Gb
 - Dust: Zone 21

- Type of Protection: Ex t IIIC Db
 Conforming to ATEX 94/9/CE: II 2G 2D
 Operating Temperatures: -40 °C to +150 °C



- CE Declaration of Conformity: 5C247
- ATEX Certificate: LCIE 11 ATEX 3006U
- IECEx Certificate: IECEx LCIE 12.0011U
- Index of Protection according EN/IEC 60529: IP66

Male/Male — To be used with fire-retardant seals or unions,

Tapered Thread (NPT)	Length mm	Weight kg	Volume dm ³	Catalog Number	Pack
1/2"	100	0.65	1	500060	1
1/2"	170	0.70	1.75	500061	1
1/2"	250	0.70	2.5	500106	1
1/2"	300	0.75	3	500062	1
1/2"	400	0.80	4	500063	1
1/2"	500	0.85	5	500064	1
1/2"	600	0.90	6	500065	1
1/2"	700	0.95	7	500066	1
1/2"	800	1.00	8	500067	1
1/2"	900	1.05	9	500068	1
1/2"	1000	1.10	10	500069	1
3/4"	300	0.75	3	500070	1
3/4"	400	0.80	1	500071	1
3/4"	500	0.85	5	500072	1
3/4"	600	0.90	6	500073	1
3/4"	700	0.95	7	500074	1
3/4"	800	1.00	8	500075	1
3/4"	900	1.05	9	500076	1
3/4"	1000	1.10	10	500077	1
1"	300	0.75	3	500078	1
1"	400	0.80	1	500079	1
1"	500	0.85	5	500080	1
1"	600	0.90	6	500081	1
1"	700	0.95	7	500082	1
1"	800	1.00	8	500083	1
1"	900	1.05	9	500084	1
1"	1000	1.1	3	500085	1
1-1/4"	300	0.75	3	500086	1
1-1/4"	400	0.80	3	500087	1
1-1/4"	500	0.85	5	500088	1
1-1/4"	600	0.90	6	500089	1
1-1/4"	700	0.95	7	500090	1
1-1/4"	800	1.00	8	500091	1
1-1/4"	900	1.05	9	500091	1
1-1/4"	1000	1.10	10	500093	1
1-1/2"	300	0.75	3	500094	1
1-1/2"	400	0.80	1	500095	1
1-1/2"	500	0.85	5	500095	1
1-1/2"	600	0.90	6	500096	1
1-1/2"	700	0.95	7	500097	1

DB Series Fire Retardant Seal

Flameproof

Zone 1 and 21 Gas (G) and Dust (D)

Applications

• Used to prevent passage of gasses, vapors or flames from one portion of a conduit system to another.

Features

• Female to female threads.

Standard Materials

• Aluminum

ATEX Certifications and Compliances

- Certification Type EYS
 - Gas: Zones 1
 - Type of Protection: Ex d IIC
 - Dust: Zone 21
 - Type of Protection: Ex tD A21
 - Conforming to ATEX 94/9/CE: ☑ II 2GD
 Ambient Temperature: -60 °C to +130 °C

 - CE Declaration of Conformity: 50268
 - ATEX Certificate: CESI 03 ATEX 085 - Index of Protection according EN/IEC 60529: IP66



Tapered	Δ	Dimensio		В	Qty of resin	Weight	Volume	Dools	Catalog	
Thread (NPT)	A	B Sool For	B1	R	required	kg	dm ³	Pack	Number	
Aluminum Fire	Aluminum Fire-Retardant Seal — Female/Female									
1/2"	77		_	43	35 g	0.13	2.3	1	500146	
3/4"	87	67	_	50	50 g	0.19	3.2	1	500147	
1"	105	83	_	62	100 g	0.32	3.2	1	500148	
1-1/4"	130	84	_	56	240 g	0.60	3.2	1	500149	
1-1/2"	130	84	_	56	240 g	0.60	4.0	1	500150	
2"	140	95	_	63	380 g	0.65	7.6	1	500151	
2-1/2"	175	113	_	74	1250 g	1.26	7.6	1	500152	
3"	190	_	135	92	1250 g	1.33	7.6	1	500153	
Fire Retardant Resin										
1 kg pot of resin + 250 g of catalyst					1.5	3.2	1	500154		
Fire Retardant	Fire Retardant Fiber									
	1 kg bog					1.5	8.0	1	500155	



DB Series Drain and Breather Valves

Flameproof or Increased safety

Zone 1 and 21 Gas (G) and Dust (D)

Applications

- Flameproof Bleed Valve:
 - Used to drain condensation from inside enclosures and boxes.
- Increased Safety Breather Drain:
 - —Ensures that the condensation is evacuated from the lower section of the enclosures and limits the "pumping" effect in the upper section.

Standard Materials

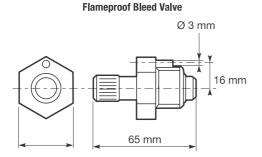
- Bleed Valve and Breather: nickel plated brass or stainless steel.
- Breather Drain: polyamide, brass or stainless steel

ATEX/IECEx Certifications and Compliances

- Certification Type DP-E
 - Gas: Zones 1
 - Type of Protection: Ex e IIC Gb
 - Dust: Zone 21
 - Type of Protection: Ex tb IIIC Db
 - Conforming to ATEX 94/9/CE: W II 2G 2D
 - Ambient Temperature: -50 °C to +85 °C
 - CE Declaration of Conformity: 5C225
 - ATEX Certificate: Sira 99ATEX3050X
 - IECEx Certificate: IECEx SIR 08.0024XIndex of Protection according EN/IEC 60529: IP66

	Metric Thread	Material	Weight kg	Volume dm³	Pack	Catalog Number
Flameproof Bleed Valve						
To be used only with our rang	e of flameproof enclosui	re. The ATEX certification is incl	uded in our Exd ei	nclosure's certification	on.	
	M20	Nickel plated brass	0.20	0.33	1	DBD20NB
willing"	M20	Stainless steel	0.20	0.33	1	DBD20S
, <u>.</u>	M20	re. The ATEX certification is incl Nickel plated brass	0.20	0.33	1	DBDB20N
	M20	Nickel plated brass	0.20	0.33	1	DBDB20NI
	M20	Stainless steel	0.20	0.33	1	DBDB20S
ncreased Safety Combi	nation Drain and Bre	eather (Type DP-E)				
-	M20	Polyamide	0.20	0.10	1	DBE20P
	M20	Brass	0.20	0.10	1	DBE20B
	M20	Stainless steel	0.20	0.10	1	DBE20S

Dimensions in Millimeters



Increased Safety Drain and Breather

