

# Safe Breathe Series

Breathing air application



Danfoss' Safe Breathe series is a coupling made for breathing air application with a specific profile: it is interchangeable with similar breathing air couplings available on the market. The locking-system is made with a push-button, and the connection is automatic. The coupling offers a working pressure of 10 bar.

The two-step disconnection avoids any handling mistake and guarantees the true safety effect. For the disconnection, in case the Danfoss plug would be used with a non-safety socket, the plug valve design has a slow pressure release that ensures by itself the safety function. The 6mm size has only one step operation for disconnection.

## Product Features

- Available in sizes 6 mm, 8 mm and 11mm
- Color coded for a better identification and to avoid crossing lines
- Automatic connection
- Profile interchangeable with other series in the market
- Working pressure of 10 bar
- Safety feature to avoid accidental disconnection
- Push to connect locking-mechanism
- Optional safety chains available on size 11mm
- Standard body material: Stainless steel 316L
- Standard seal material: NBR
- Safety padlock can be added to avoid disconnecting

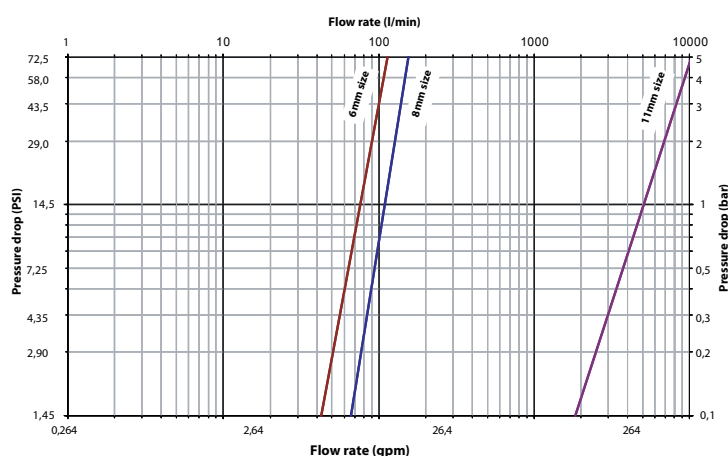
## Application

- Breathing air application (industrial and chemical field)

## Physical Characteristics

Body Size (mm)	Working Pressure		Nominal Flow Diameter (mm)	Plug part number	Socket part number	Thread		Profile certification
	(bar)	(psi)				Size	Type	
6	10	145	5,5	-	GZ1112638	3/8	BSPP	-
6	10	145	5,5	-	GZ1112612	1/2	BSPP	-
8	10	145	8	IC1119038	-	3/8	BSPP	-
8	10	145	8	IC1119012	-	1/2	BSPP	-
8	10	145	8	-	IZ1116013	1/2	BSPP	-
11	10	145	11	TC1111634	TZ1112134	3/4	BSPP	ISO 6150C

## Flow Data



Air flow-rate at 6 bar (87 psi)

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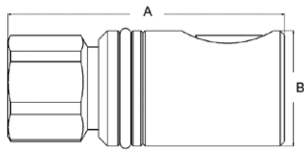


Figure 1

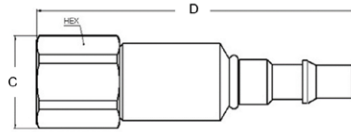


Figure 2

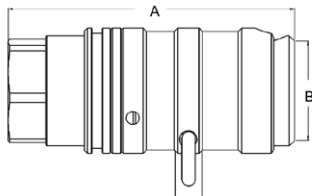


Figure 3

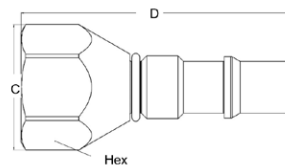


Figure 4

## Dimensions

Part Number	Fig	Thread Size	Socket dimensions						Plug dimensions					Length connected (mm)	
		BSPP	A (mm)	B (mm)	Hex (mm)	A (in)	B (in)	Hex (in)	C (mm)	D (mm)	Hex (mm)	C (in)	D (in)		Hex (in)
GZ1112638	1	3/8	64,5	25,7	22	2,53	1,01	0,86	-	-	-	-	-	-	-
GZ1112612	1	1/2	66,5	25,7	27	2,61	1,01	1,06	-	-	-	-	-	-	-
IC1119012	2	1/2	-	-	-	-	-	-	24	98,5	Hex: 22	0,94	3,8	0,86	-
IC1119038	2	3/8	-	-	-	-	-	-	29,5	102	Hex: 27	1,16	4,01	1,06	-
TZ1112134	3	3/4	107,5	48,5	38	4,23	1,90	1,49	-	-	-	-	-	-	140
TC1111634	4	3/4	-	-	-	-	-	-	34	73	2 flats: 30	1,33	2,87	2 flats: 1,18	140