

# ADB Series (Aluminium)

## Flat Face/Dry Break

Thermal Management Application



### Product Features

- Aluminium construction extends life for safer operations and reduced maintenance.
- Enhances operations in demanding applications with heat and vibration compared to plastic couplings.
- Up to 62% higher flow than ISO 16028 requirements to improve efficiency.
- 4-times safety factor at maximum operating pressure of 25 bar.
- Options are available for railway applications with an enhanced version for vibration resistance tested according to EN 61373.
- Pre-guided system that helps users pre-position the coupling in difficult environments, making connection easy and reducing maintenance time.
- Full range of optional seals, end connections and sizes, helping manufacturers benefit from the design in any type of application.

### Physical Characteristics

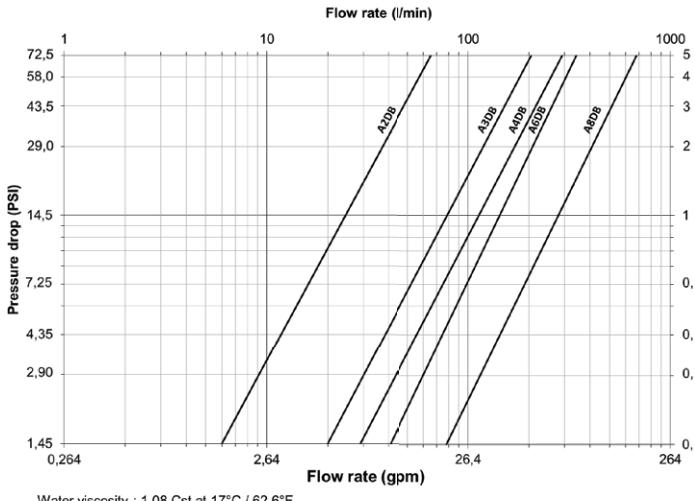
ADB Model	ISO size	Body size	Nominal Flow Diameter	Max. Operating Pressure	Rated* Flow	Air Inclusion	Fluid Loss	Force to Connect		
-	(mm)	(in)	(mm)	(bar)	(psi)	(lpm)	ml-cc.	ml-cc.	N	Ibf
A2DB	6.3	1/4"	5.9	25	360	25	0.002	0.001	77	17
A3DB	10	3/8"	9	25	360	80	0.012	0.03	103	23
A4DB	12.5	1/2"	11.5	25	360	110	0.012	0.025	110	25
A6DB	19	3/4"	15	25	360	150	0.03	0.05	193	43
A8DB	25	1"	18.5	25	360	290	0.15	0.13	180	40

\* Indicated values refer to a 1 bar / 14.5 psi pressure drop with water values obtained by projection of pressure drops measured with Oil

### Applications & Markets

- Electrical cooling applications
- Renewable energy
- Railway
- Processing industry
- Data centers

### Flow Data



### Seal Elastomer Data\*

Seal Elastomer	Max. Operation Temperature Range
EPDM (Ethylene-Propylene)	-40°C +150°C/-40°F +302°F

\*Other sealing material could be available, contact Danfoss technical support for further information on sealing availability.

\*\*For reference only, based on Danfoss recommended temperatures.

Contact Danfoss technical support for further information on fluid compatibility

Danfoss Power Solutions, 丹佛斯中国签约经销商：北京汉深流体技术有限公司

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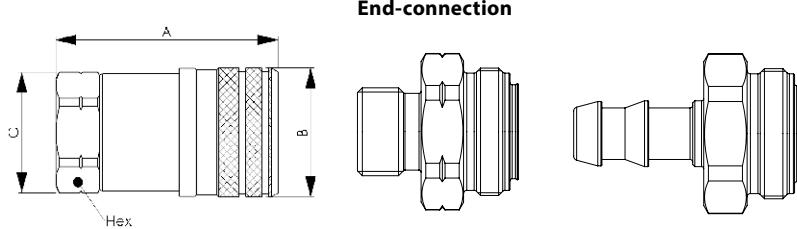
Danfoss Quick Disconnect Couplings Master Catalog

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## Flat Face/Dry Break



### Sockets (Female)

Part Number	Fig.	Body Size	Thread Size			Dimensions										
			(in)	BSPP female	BSPP male	Hosebarb	(in)	(in)	(in)	(in)	(mm)	(mm)	(mm)	(mm)	Hex1	Weight
A2DBS25BS192	1	1/4'	1/4'	—	—	—	1.84	1.06	0.96	0.87	46.7	26.8	24.5	22	0,104	47
A2DBS25MBS192	2	1/4'	—	—	1/4'	—	1.84	1.06	0.96	0.87	46.7	26.8	24.5	22	0,106	48
A2DBS25HT192	3	1/4'	—	—	—	1/4'	1.84	1.06	0.96	0.87	46.7	26.8	24.5	22	0,106	48
A2DBS37HT192	3	1/4'	—	—	—	3/8'	1.84	1.06	0.96	0.87	46.7	26.8	24.5	22	0,106	48
A3DBS37BS192	1	3/8'	3/8'	—	—	—	2.42	1.26	1.16	1.06	61.5	32	29.5	27	0,192	87
A3DBS37MBS192	2	3/8'	—	—	3/8'	—	2.42	1.26	1.16	1.06	61.5	32	29.5	27	0,192	87
A3DBS37HT192	3	3/8'	—	—	—	3/8'	2.42	1.26	1.16	1.06	61.5	32	29.5	27	0,190	86
A3DBS50BS192	1	3/8'	1/2'	—	—	—	2.42	1.26	1.16	1.06	61.5	32	29.5	27	0,192	87
A3DBS50MBS192	2	3/8'	—	—	1/2'	—	2.42	1.26	1.16	1.06	61.5	32	29.5	27	0,205	93
A3DBS50HT192	3	3/8'	—	—	—	1/2'	2.42	1.26	1.16	1.06	61.5	32	29.5	27	0,201	91
A4DBS50BS192	1	1/2'	1/2'	—	—	—	2.49	1.49	1.4	1.26	63.3	37.9	35.5	32	0,284	129
A6DBS75BS192	1	3/4'	3/4'	—	—	—	3.48	1.89	1.83	1.61	88.5	48	46.5	41	0,613	278
A8DBS100BS192	1	1'	1'	—	—	—	3.70	2.26	2.16	1.97	93.9	57.4	54.9	50	0,939	426

\*Alternative end connections available upon request.

To obtain connected length of coupling, add dimensions A (Fig. 1) and G (Fig. 4) together.

### Plugs (Male)

Part Number	Fig.	Body Size	Thread Size			Dimensions												
			(in)	BSPP female	BSPP male	Hosebarb	(in)	(in)	(in)	(in)	(mm)	(mm)	(mm)	(mm)	Hex1	Weight		
A2DBP25BS192	4	1/4'	1/4'	—	—	—	1.71	0.65	0.96	1.26	0.87	43.5	16.5	24.5	32.1	22	0,062	28
A2DBP25MBS192	5	1/4'	—	—	1/4'	—	1.71	0.65	0.96	1.26	0.87	43.5	16.5	24.5	32.1	22	0,064	29
A2DBP25HT192	6	1/4'	—	—	—	1/4'	1.71	0.65	0.96	1.26	0.87	43.5	16.5	24.5	32.1	22	0,064	29
A2DBP37HT192	6	1/4'	—	—	—	3/8'	1.71	0.65	0.96	1.26	0.87	43.5	16.5	24.5	32.1	22	0,064	29
A3DBP37BS192	4	3/8'	3/8'	—	—	—	2.25	0.77	1.16	1.45	1.06	57.1	19.7	29.5	39.5	27	0,117	53
A3DBP37MBS192	5	3/8'	—	—	3/8'	—	2.25	0.77	1.16	1.45	1.06	57.1	19.7	29.5	39.5	27	0,117	53
A3DBP37HT192	6	3/8'	—	—	—	3/8"	2.25	0.77	1.16	1.45	1.06	57.1	19.7	29.5	39.5	27	0,115	52
A3DBP50BS192	4	3/8'	1/2'	—	—	—	2.25	0.77	1.16	1.45	1.06	57.1	19.7	29.5	39.5	27	0,117	53
A3DBP50MBS192	5	3/8'	—	—	1/2'	—	2.25	0.77	1.16	1.45	1.06	57.1	19.7	29.5	39.5	27	0,130	59
A3DBP50HT192	6	3/8'	—	—	—	1/2'	2.25	0.77	1.16	1.45	1.06	57.1	19.7	29.5	39.5	27	0,126	57
A4DBP50BS192	4	1/2'	1/2'	—	—	—	2.39	0.99	1.4	1.59	1.26	60.6	25.2	35.5	40.4	32	0,194	88
A6DBP75BS192	4	3/4'	3/4'	—	—	—	3.28	1.29	1.83	2.27	1.61	83.4	32.8	46.5	57.7	41	0,375	170
A8DBP100BS192	4	1'	1'	—	—	—	3.52	1.59	2.16	2.44	1.97	89.4	40.4	54.9	62	50	0,591	268

\*Alternative end connections available upon request.

To obtain connected length of coupling, add dimensions A (Fig. 1) and G (Fig. 4) together.

### Color Coding Ring Option\*

Body Size (in)	ISO Size (mm)	Size	Socket/Female Ring Part Number**				Plug/Male Ring Part Number**				Tool Part Number	Kit Part Number***
			Blue	Red	Yellow	Green	Blue	Red	Yellow	Green		
1/2	12.5	12FF	CR12FFSLB	CR12FFSRD	CR12FFSYL	CR12FFSDG	CR12FFPLB	CR12FFPRD	CR12FFPYL	CR12FFPDG	CR12FFSP93	CRKIT12FF

For color coded rings TPE material is used that offers excellent flexibility which allows a very good shock resistance in demanding applications.

Good thermal, chemical and weather resistance provides a great fit on the coupling and a extended life time in toughest conditions.

The color coded rings are easy to install by using the referenced tools. Please refer to the user guide on danfoss/qdc.com

\* For requests on alternative colors or installation instructions, please contact your Danfoss sales representative.

\*\* Orders must be in multiples of 10 pcs.

\*\*\* The kit consists of a tool plus 10 socket rings and 10 plug rings of each color.

