

# Hansen

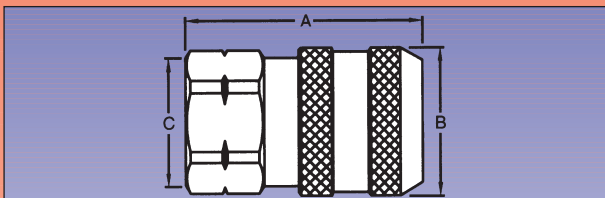
## DB SERIES

### QUICK-RELEASE DRY-BREAK COUPLINGS



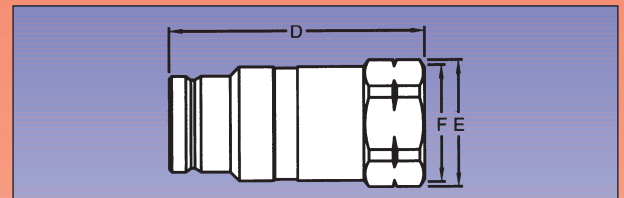
Designed for critical applications where minimum spillage is vital, especially flammable, toxic or other dangerous fluids, fine chemicals and pharmaceuticals, as well as a wide range of industrial fluids such as water, oils, fuels, solvents, acids, etc.

- Minimal spillage on disconnection.
- Flat-face valves give wipe-clean, streamlined exterior.
- Fast, fool-proof, one-handed connection & disconnection.
- Automatic flow on connection, automatic shut-off of both halves on disconnection.
- High flow capacity/low pressure drop in a compact body.
- 316L stainless steel metal parts throughout.
- Viton seals as standard - alternative seal materials available.



DB SERIES SOCKETS

Part No.	Thread	Dimensions		
		A	B	C <sub>af</sub>
2DBS-25F-BS	1/4"BSP	50mm	26	22
3DBS-37F-BS	3/8"BSP	60	32	27
4DBS-50F-BS	1/2"BSP	64	41	35
6DBS-75F-BS	3/4"BSP	82	51	41
8DBS-100F-BS	1"BSP	89	57	48



DB SERIES PLUGS

Part No.	Thread	Dimensions		
		D	E <sub>ac</sub>	F <sub>af</sub>
2DBP-25F-BS	1/4"BSP	42mm	24	22
3DBP-37F-BS	3/8"BSP	62	27	23
4DBP-50F-BS	1/2"BSP	67	34	30
6DBP-75F-BS	3/4"BSP	81	44	38
8DBP-100F-BS	1"BSP	89	53	48

### TECHNICAL DATA

#### FLOW CAPACITIES

The flow co-efficients (Cv) listed below enable the approximate pressure drop ( $\Delta p$ ) in bar across the connected coupling to be calculated as follows:

$$\Delta p = \left( \frac{\text{litres/min}}{C_v \times 3.8} \right)^2 \times 0.069 \text{ where water is the flow medium}$$

Example: Find approx. pressure drop across the 4DB coupling at a flow rate of 30 litres/min.

$$\Delta p = \left( \frac{30}{5 \times 3.8} \right)^2 \times 0.069 = 0.17 \text{ bar}$$

Size	Cv	Size	Cv
2DB	0.80	6DB	8.15
3DB	2.15	8DB	15.40
4DB	5.00		

#### PRESSURE RATINGS

Size	Connected	Disconnected
2DB	190 bar	140 bar
3DB	180	140
4DB	140	100
6DB	140	100
8DB	140	100

#### SPILLAGE

2DB	0.01ml
3DB	0.02
4DB	0.02
6DB	0.03
8DB	0.04



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#### GUYSON SERVICE

Guyson Technical Department offers immediate advice and assistance in selection of suitable Hansen couplings, fittings, hose assemblies, adaptors, etc., for any application, based on more than 80 years of specialist experience.

Our Sales Office provides fast information on prices and deliveries and same-day despatch of your urgent requirements.