# 180/280 Series

Pneumatic application





Danfoss' 180/280 series miniature ball lock quick disconnect couplings are designed for use with compressed air, gases and liquids.

#### **Product Features**

- Series 180 an 280 sockets/females mate with all Series 180 plugs/males
- Series 180 sockets/females have a tire valve
- Series 280 sockets/females have a 1HK
- valve, which provides higher flow capacity
- Chrome plating available as well as additional seal options
- Standard body material: Brass
- Standard seal material: Buna-N
- Interchange is proprietary to Danfoss

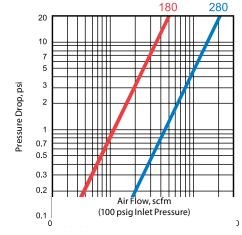
## **Physical Characteristics**

Series	Body Size	Max. Operating	Pressure	Min. Burst P	ressure	Rated Flow	Rated Flow		
	(in)	(bar) (psi)		(bar)	(psi)	(lpm)	scfm		
180	1/8	48	700	192	2,800	71	2.5		
280	1/8	207	3,000	828	1,200	283	10		

### **Applications & Markets**

- Recreation and Entertainment
- Breathing Air
- General Pneumatics
- Pharmaceutical
- · Laboratory Uses
- Medical

#### **Flow Data**





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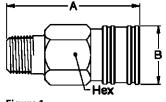
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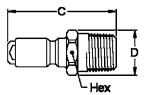
NOTE: All technical information shown is correct at time of print and may be subject to change without notice. For specific applications, please consult Guyson Technical Sales Department.







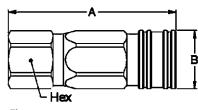




#### **Male End Connections**

igure 1	Figure 2
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Part	Coupling	Body	Port				Dimen	sions				
Number	Туре	Size	Size	Thread	Type	Fig.	Α	В	Hex	Α	В	Hex
							(in)	(in)	(in)	(mm)	(mm)	(mm)
180	Socket/Female	1/8	1/8	1/8-27	NPTF	1	1.42	0.63	0.56	36.1	16.0	14.2
28S25M	Socket/Female	1/8	1/4	1/4-18	NPTF	1	1.39	0.63	0.56	35.3	16.0	14.2
Part	Coupling	Body	Port				Dimen	sions				
Number	Туре	Size	Size	Thread	Type	Fig.	C	D	Hex	С	D	Hex
							(in)	(in)	(in)	(mm)	(mm)	(mm)
185E	Plug/Male	1/8	1/8	1/8-27	NPTF	2	1.16	0.51	0.44	29.5	13.0	11.2
186	Plug/Male	1/8	1/4	1/4-18	NPTF	_	1.44	0.63	0.56	36.6	16.0	14.2



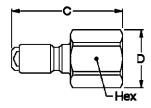
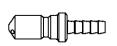


Figure 1

Figure 2

#### **Female End Connections**

Part	Coupling	Body	Port				Dimens	sions				
Number	Туре	Size	Size	Thread	Type	Fig.	Α	В	Hex	A	В	Hex
							(in)	(in)	(in)	(mm)	(mm)	(mm)
28S12F	Socket/Female	1/8	1/8	1/8-27	NPTF	1	1.79	0.63	0.56	45.5	16.0	14.2
Part	Coupling	Body	Port				Dimens	sions				
Number	Type	Size	Size	Thread	Type	Fig.	C	D	Hex	С	D	Hex
							(in)	(in)	(in)	(mm)	(mm)	(mm)
183	Plug/Male	1/8	1/8	1/8-27	NPTF	2	1.19	0.58	0.50	30.2	14.7	12.7



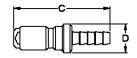


Figure 1

Figure 2

## **Hose Stem End Connections**

Part	Coupling	Body	Hose		Dimensio	ns		
Number	Туре	Size	I.D.	Fig.	С	D	С	D
					(in)	(in)	(mm)	(mm)
187	Plug/Male	1/8	1/8	1	1.25	0.38	31.8	9.7
189	Plug/Male	1/8	3/16	2	1.50	0.38	38.1	9.7



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