

# 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 and 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

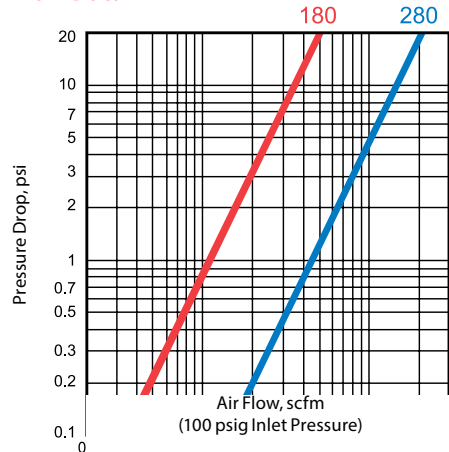
## Physical Characteristics

Series	Body Size	Max. Operating Pressure		Min. Burst Pressure		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



# 180/280 Series

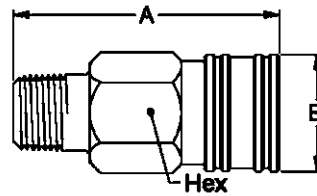


Figure 1

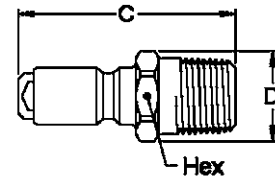


Figure 2

## Male End Connections

Part Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions			A	B	Hex
							A	B	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 Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions			C	D	Hex
							C	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	2	1.44	0.63	0.56	36.6	16.0	14.2

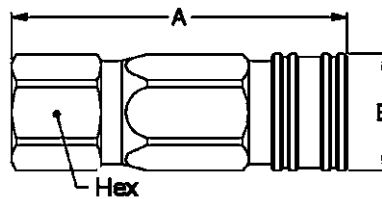


Figure 1

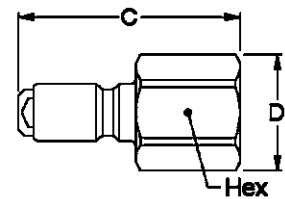


Figure 2

## Female End Connections

Part Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions			A	B	Hex
							A	B	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 Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions			C	D	Hex
							C	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

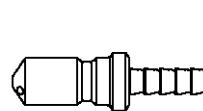


Figure 1

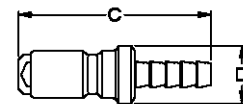


Figure 2

## Hose Stem End Connections

Part Number	Coupling Type	Body Size	Hose I.D.	Fig.	Dimensions			
					C	D	C	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