

# 2RL/3RL Series

Pneumatic application

Danfoss' 2RL/3RL ring lock series quick disconnect pneumatic couplings have a unique interchange which Danfoss designed for use with compressed air.



## Product Features

- High Flow capacity
- Push to connect with a ring lock sleeve
- Ring lock design prevents accidental disconnection
- To disconnect rotate sleeve 20 degrees
- Standard body material: Zinc trivalent plated steel
- Standard seal material: Buna-N
- Optional seal materials: Silicone-138, FKM-143, EPDM-192

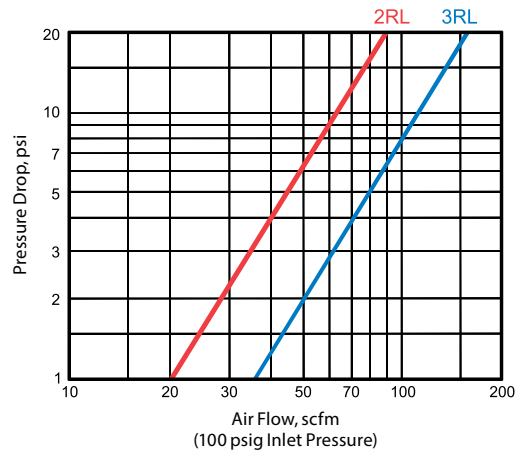
## Physical Characteristics

Series	Coupling Size (in)	Max. Operating Pressure		Min. Burst Pressure		Rated Flow	
		(bar)	(psi)	(bar)	(psi)	(lpm)	scfm
2RL	1/4	20	300	80	1,200	1,350	48
3RL	3/8	20	300	80	1,200	2,250	80

## Applications & Markets

- Shipyards
- General Pneumatics
- Mining
- Marine

## Flow Data



# 2RL Series

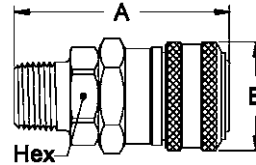


Figure 1

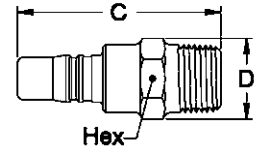


Figure 2

## 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)
2R10	Socket/Female	1/4	1/8	1/8-27	NPTF	1	2.01	1.06	0.88	51.1	26.9	22.4
2R15	Socket/Female	1/4	1/4	1/4-18	NPTF	1	2.16	1.06	0.88	54.9	26.9	22.4
2R20	Socket/Female	1/4	3/8	3/8-18	NPTF	1	2.16	1.06	0.88	54.9	26.9	22.4
2R25	Socket/Female	1/4	1/2	1/2-14	NPTF	1	2.35	1.06	0.88	59.7	26.9	22.4

Part Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions			C	D	Hex
							C	D	Hex			
							(in)	(in)	(in)	(mm)	(mm)	(mm)
2L10	Plug/Male	1/4	1/8	1/8-27	NPTF	2	1.51	0.58	0.50	38.4	14.7	12.7
2L15	Plug/Male	1/4	1/4	1/4-18	NPTF	2	1.66	0.65	0.56	42.2	16.5	14.2
2L15G†	Plug/Male	1/4	1/4	1/4-18	NPTF	2	2.64	0.77	0.69	67.1	19.6	17.5
2L20	Plug/Male	1/4	3/8	3/8-18	NPTF	2	2.04	0.79	0.69	51.8	20.1	17.5
2L20G†	Plug/Male	1/4	3/8	3/8-18	NPTF	2	2.64	0.77	0.69	67.1	19.6	17.5
2L25	Plug/Male	1/4	1/2	1/2-14	NPTF	2	2.31	1.01	0.88	58.7	25.7	22.4

†With Bleeder Ball Check—Reduces Hose Whip

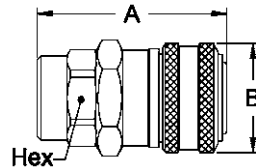


Figure 1

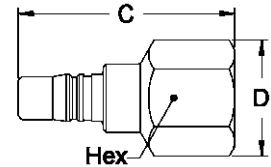


Figure 2

## 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)
2R11	Socket/Female	1/4	1/8	1/8-27	NPTF	1	1.91	1.06	0.88	48.5	26.9	22.4
2R16	Socket/Female	1/4	1/4	1/4-18	NPTF	1	1.91	1.06	0.88	48.5	26.9	22.4
2R21	Socket/Female	1/4	3/8	3/8-18	NPTF	1	2.16	1.06	0.88	54.9	26.9	22.4
2R26	Socket/Female	1/4	1/2	1/2-14	NPTF	1	2.43	1.06	1.00	61.7	26.9	25.4

Part Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions			C	D	Hex
							C	D	Hex			
							(in)	(in)	(in)	(mm)	(mm)	(mm)
2L11	Plug/Male	1/4	1/8	1/8-27	NPTF	2	1.36	0.65	0.56	34.5	16.5	14.2
2L16	Plug/Male	1/4	1/4	1/4-18	NPTF	2	1.54	0.79	0.69	39.1	20.1	17.5
2L16G†	Plug/Male	1/4	1/4	1/4-18	NPTF	2	2.55	0.77	0.69	64.8	19.6	17.5
2L21	Plug/Male	1/4	3/8	3/8-18	NPTF	2	1.88	0.94	0.81	47.8	23.9	20.6
2L26	Plug/Male	1/4	1/2	1/2-14	NPTF	2	2.18	1.15	1.00	55.4	29.2	25.4

†With Bleeder Ball Check—Reduces Hose Whip

# 2RL Series

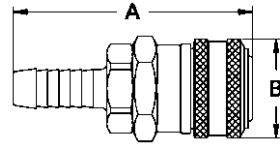


Figure 1

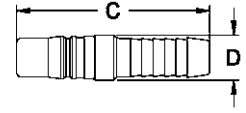


Figure 2

## Hose Stem End Connections

Part Number	Coupling Type	Body Size	Hose I.D.	Fig.	Dimensions			
					A (in)	B (in)	A (mm)	B (mm)
2R17	Socket/Female	1/4	1/4	1	2.63	1.06	66.8	26.9
2R195	Socket/Female	1/4	5/16	1	2.63	1.06	66.8	26.9
2R22	Socket/Female	1/4	3/8	1	2.63	1.06	66.8	26.9
2R27	Socket/Female	1/4	1/2	1	2.63	1.06	66.8	26.9
Part Number	Coupling Type	Body Size	Hose I.D.	Fig.	Dimensions			
					C (in)	D (in)	C (mm)	D (mm)
2L17	Plug/Male	1/4	1/4	2	2.13	0.50	54.1	12.7
2L195	Plug/Male	1/4	5/16	2	2.13	0.50	54.1	12.7
2L22	Plug/Male	1/4	3/8	2	2.13	0.50	54.1	12.7
2L27	Plug/Male	1/4	1/2	2	2.5	0.81	63.5	20.6

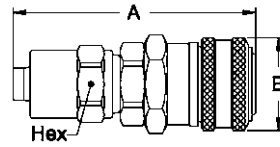


Figure 1

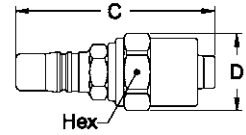


Figure 2

## Hose Clamp End Connections

Part Number	Coupling Type	Body Size	Hose I.D.	Hose O.D.	Fig.	Dimensions			A (mm)	B (mm)	Hex (mm)
						A (in)	B (in)	Hex (in)			
2R18B1	Socket/Female	1/4	1/4	15/32	1	2.73	1.06	0.63	69.3	26.9	16.00
2R18B3	Socket/Female	1/4	1/4	1/2	1	2.73	1.06	0.63	69.3	26.9	16.00
2R18B7	Socket/Female	1/4	1/4	5/8	1	2.73	1.06	0.75	69.3	26.9	19.05
2R18B11	Socket/Female	1/4	1/4	3/4	1	2.73	1.06	0.88	69.3	26.9	22.35
2R185C7	Socket/Female	1/4	5/16	5/8	1	2.79	1.06	0.75	70.9	26.9	19.05
2R185C9	Socket/Female	1/4	5/16	11/16	1	2.79	1.06	0.81	70.9	26.9	20.57
2R23D7	Socket/Female	1/4	3/8	5/8	1	2.85	1.06	0.75	72.4	26.9	19.05
2R23D9	Socket/Female	1/4	3/8	11/16	1	2.85	1.06	0.81	72.4	26.9	20.57
2R23D11	Socket/Female	1/4	3/8	3/4	1	2.85	1.06	0.88	72.4	26.9	22.35
2R23D13	Socket/Female	1/4	3/8	13/16	1	2.85	1.06	0.94	72.4	26.9	23.88
2R28P13	Socket/Female	1/4	1/2	13/16	1	3.48	1.06	0.94	88.4	26.9	23.88
2R28P15	Socket/Female	1/4	1/2	7/8	1	3.48	1.06	1.00	88.4	26.9	25.40
Part Number	Coupling Type	Body Size	Hose I.D.	Hose O.D.	Fig.	Dimensions			C (mm)	D (mm)	Hex (mm)
						C (in)	D (in)	Hex (in)			
2L18B3	Plug/Male	1/4	1/4	1/2	2	2.23	0.70	0.63	56.6	17.8	16.00
2L185C7	Plug/Male	1/4	5/16	5/8	2	2.29	0.84	0.75	58.2	21.3	19.05
2L185C9	Plug/Male	1/4	5/16	11/16	2	2.29	0.91	0.81	58.2	23.1	20.57
2L23D5	Plug/Male	1/4	3/8	9/16	2	2.35	0.77	0.69	59.7	19.6	17.53
2L23D7	Plug/Male	1/4	3/8	5/8	2	2.35	0.84	0.75	59.7	21.3	19.05
2L23D9	Plug/Male	1/4	3/8	11/16	2	2.35	0.91	0.81	59.7	23.1	20.57
2L23D11	Plug/Male	1/4	3/8	3/4	2	2.35	0.98	0.88	59.7	24.9	22.35
2L23D13	Plug/Male	1/4	3/8	13/16	2	2.35	1.05	0.94	59.7	26.7	23.88
2L28P13	Plug/Male	1/4	1/2	13/16	2	3.41	1.05	0.94	86.6	26.7	23.88
2L28P15	Plug/Male	1/4	1/2	7/8	2	3.41	1.12	1.00	86.6	28.4	25.40

# 3RL Series

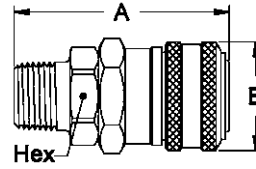


Figure 1

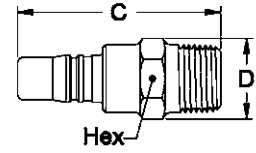


Figure 2

## 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)
3R15	Socket/Female	3/8	1/4	1/4-18	NPTF	1	2.34	1.31	1.00	59.4	33.3	25.4
3R20	Socket/Female	3/8	3/8	3/8-18	NPTF	1	2.35	1.31	1.00	59.7	33.3	25.4
3R25	Socket/Female	3/8	1/2	1/2-14	NPTF	1	2.54	1.31	1.00	64.5	33.3	25.4
3R30	Socket/Female	3/8	3/4	3/4-14	NPTF	1	2.54	1.31	1.06	64.5	33.3	26.9
Part Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions			C	D	Hex
							C	D	Hex			
							(in)	(in)	(in)	(mm)	(mm)	(mm)
3L10	Plug/Male	3/8	1/8	1/8-27	NPTF	2	1.54	0.72	0.63	39.1	18.3	16.0
3L15	Plug/Male	3/8	1/4	1/4-18	NPTF	2	1.70	0.72	0.63	43.2	18.3	16.0
3L15G†	Plug/Male	3/8	1/4	1/4-18	NPTF	2	2.64	0.98	0.88	67.1	24.9	22.4
3L20	Plug/Male	3/8	3/8	3/8-18	NPTF	2	1.76	0.79	0.69	44.7	20.1	17.5
3L20G†	Plug/Male	3/8	3/8	3/8-18	NPTF	2	2.64	0.98	0.88	67.1	24.9	22.4
3L25	Plug/Male	3/8	1/2	1/2-14	NPTF	2	2.31	1.01	0.88	58.7	25.7	22.4
3L25G†	Plug/Male	3/8	1/2	1/2-14	NPTF	2	2.83	0.98	0.88	71.9	24.9	22.4
3L30	Plug/Male	3/8	3/4	3/4-14	NPTF	2	2.38	1.23	1.06	60.5	31.2	26.9
3L30G†	Plug/Male	3/8	3/4	3/4-14	NPTF	2	2.88	1.19	1.06	73.2	30.2	26.9

†With Bleeder Ball Check—Reduces Hose Whip

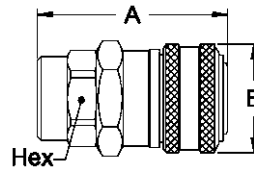


Figure 1

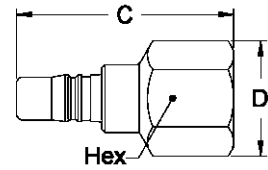


Figure 2

## 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)
3R16	Socket/Female	3/8	1/4	1/4-18	NPTF	1	2.29	1.31	1.00	58.2	33.3	25.4
3R21	Socket/Female	3/8	3/8	3/8-18	NPTF	1	2.35	1.31	1.00	59.7	33.3	25.4
3R26	Socket/Female	3/8	1/2	1/2-14	NPTF	1	2.63	1.31	1.00	66.8	33.3	25.4
3R31A	Socket/Female	3/8	3/4	3/4-14	NPTF	1	2.66	1.31	1.19	67.6	33.3	30.2
Part Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions			C	D	Hex
							C	D	Hex			
							(in)	(in)	(in)	(mm)	(mm)	(mm)
3L16	Plug/Male	3/8	1/4	1/4-18	NPTF	2	1.48	0.79	0.69	37.6	20.1	17.5
3L16G†	Plug/Male	3/8	1/4	1/4-18	NPTF	2	2.39	0.98	0.88	60.7	24.9	22.4
3L21	Plug/Male	3/8	3/8	3/8-18	NPTF	2	1.63	0.94	0.81	41.4	23.9	20.6
3L26	Plug/Male	3/8	1/2	1/2-14	NPTF	2	2.25	1.15	1.00	57.2	29.2	25.4
3L26G†	Plug/Male	3/8	1/2	1/2-14	NPTF	2	2.91	0.98	1.00	73.9	24.9	25.4
3L31	Plug/Male	3/8	3/4	3/4-14	NPTF	2	2.25	1.37	1.19	57.2	34.8	30.2

†With Bleeder Ball Check—Reduces Hose Whip

# 3RL Series

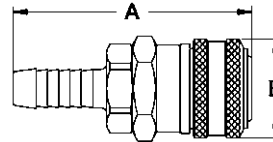


Figure 1

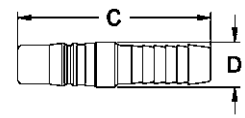


Figure 2

## Hose Stem End Connections

Part Number	Coupling Type	Body Size	Hose I.D.	Fig.	Dimensions		A	B
					A	B		
					(in)	(in)	(mm)	(mm)
3R17	Socket/Female	3/8	1/4	1	2.85	1.31	72.4	33.3
3R195	Socket/Female	3/8	5/16	1	2.85	1.31	72.4	33.3
3R22	Socket/Female	3/8	3/8	1	2.89	1.31	73.4	33.3
3R27	Socket/Female	3/8	1/2	1	2.81	1.31	71.4	33.3
3R32	Socket/Female	3/8	3/4	1	3.66	1.31	93.0	33.3

Part Number	Coupling Type	Body Size	Hose I.D.	Fig.	Dimensions		C	D
					C	D		
					(in)	(in)	(mm)	(mm)
3L17	Plug/Male	3/8	1/4	2	2.16	0.63	54.9	16.0
3L17G†	Plug/Male	3/8	1/4	2	3.11	0.98	79.0	24.9
3L195	Plug/Male	3/8	5/16	2	2.16	0.63	54.9	16.0
3L195G†	Plug/Male	3/8	5/16	2	3.11	0.98	79.0	24.9
3L22	Plug/Male	3/8	3/8	2	2.16	0.75	54.9	19.1
3L22G†	Plug/Male	3/8	3/8	2	3.11	0.98	79.0	24.9
3L27	Plug/Male	3/8	1/2	2	2.16	0.81	54.9	20.6
3L27G†	Plug/Male	3/8	1/2	2	3.11	0.98	79.0	24.9
3L32	Plug/Male	3/8	3/4	2	3.13	1.00	79.5	25.4
3L32G†	Plug/Male	3/8	3/4	2	3.96	0.98	100.6	24.9

†With Bleeder Ball Check—Reduces Hose Whip

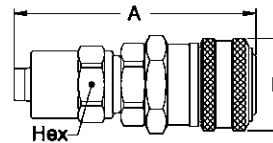


Figure 1

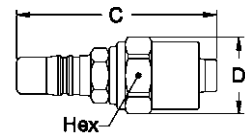


Figure 2

## Hose Clamp End Connections

Part Number	Coupling Type	Body Size	Hose I.D.	Hose O.D.	Fig.	Dimensions			A	B	Hex
						A	B	Hex			
						(in)	(in)	(in)	(mm)	(mm)	(mm)
3R23D7	Socket/Female	3/8	3/8	5/8	1	3.06	1.31	0.75	77.7	33.3	19.05
3R23D9	Socket/Female	3/8	3/8	11/16	1	3.06	1.31	0.81	77.7	33.3	20.57
3R23D11	Socket/Female	3/8	3/8	3/4	1	3.06	1.31	0.88	77.7	33.3	22.35
3R28P13	Socket/Female	3/8	1/2	13/16	1	3.66	1.31	0.94	93.0	33.3	23.88
3R28P15	Socket/Female	3/8	1/2	7/8	1	3.66	1.31	1.00	93.0	33.3	25.40
3R28P17	Socket/Female	3/8	1/2	15/16	1	3.66	1.31	1.06	93.0	33.3	26.92
3R33R23	Socket/Female	3/8	3/4	1 1/8	1	3.79	1.31	1.25	96.3	33.3	31.75
3R33R25	Socket/Female	3/8	3/4	1 3/16	1	3.79	1.31	1.31	96.3	33.3	33.27

Part Number	Coupling Type	Body Size	Hose I.D.	Hose O.D.	Fig.	Dimensions			C	D	Hex
						C	D	Hex			
						(in)	(in)	(in)	(mm)	(mm)	(mm)
3L23D7	Plug/Male	3/8	3/8	5/8	2	2.45	0.84	0.75	62.2	21.3	19.05
3L23D9	Plug/Male	3/8	3/8	11/16	2	2.45	0.91	0.81	62.2	23.1	20.57
3L23D11	Plug/Male	3/8	3/8	3/4	2	2.45	0.98	0.88	62.2	24.9	22.35
3L28P13	Plug/Male	3/8	1/2	13/16	2	3.14	1.05	0.94	79.8	26.7	23.88
3L28P15	Plug/Male	3/8	1/2	7/8	2	3.14	1.12	1.00	79.8	28.4	25.40
3L33R23	Plug/Male	3/8	3/4	1 1/8	2	3.56	1.40	1.25	90.4	35.6	31.75
3L33R25	Plug/Male	3/8	3/4	1 3/16	2	3.56	1.47	1.31	90.4	37.3	33.27

## Dust Caps and Dust Plugs

Series	Dust Cap	Dust Plug
2RL	XPPDC1HK	XPSDC1HK
3RL	XPPDC2HK	XPSDC2HK

