



NT82 Quick Couplings

**Serving The Nuclear Industry**



[www.thorburnflex.com](http://www.thorburnflex.com)

## High Quality Custom Flexible Piping Systems



### NT82 Straight Through System

Thorburn's NT82 Series straight-through quick couplings are high-flow connectors designed to provide unrestricted fluid transfer with minimal pressure drop. Their straight-through internal bore allows maximum flow efficiency, making them ideal for applications requiring rapid connection and disconnection without flow restriction. The ball-lock mechanism ensures secure, reliable engagement while enabling quick, tool-free operation. Built for durability and high-performance service, they are widely used in hydraulic, industrial, and fluid transfer systems where maintaining full flow capacity is critical.

#### Features:

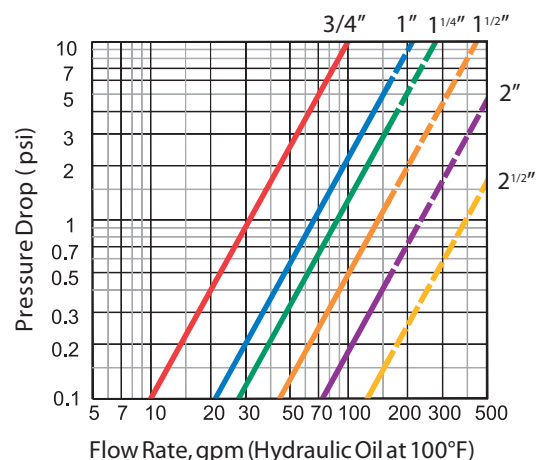
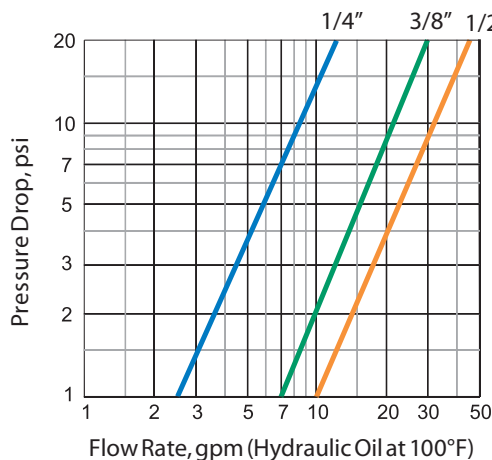
- Unrestricted full-flow design for minimal pressure drop.
- No internal valves to maximize flow efficiency
- Secure ball-lock mechanism for reliable, positive connection.
- Fast, coupling & uncoupling improves operational efficiency.

#### Advantages:

- High Flow - Low pressure drop
- Sizes 1/4" to 2"
- Proven ball-lock mechanism provides positive connections
- Sockets and plugs interchangeable with other manufacturers such as Hansen ST Non-Valved Straight-Through Series
- Can be designed, manufactured and registered (C/W CRN) to ASME B31.1, B51, CSA N285.0 and ASME Section III, Class 2, 3 & 6 Service
- Standard Material - Brass (ASTM B16/B21) & 316SS

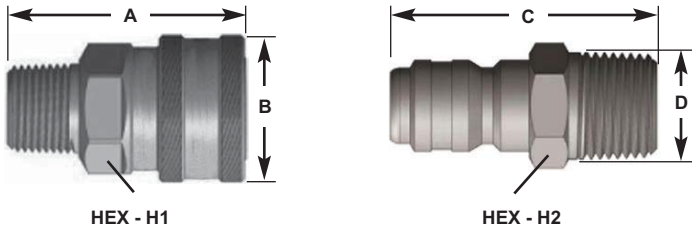
Nominal Size	Stainless Steel				Brass			
	Working Pressure		Minimum Burst		Working Pressure		Minimum Burst	
	psi	bar	psi	bar	psi	bar	psi	bar
1/4	5200	359	20800	1434	3640	251	14560	1004
3/8	2800	193	11200	772	1960	135	7840	541
1/2	2250	155	9000	621	1575	109	6300	434
3/4	1750	121	7000	483	1225	85	4900	338
1	1250	86	5000	345	875	60	3500	241
1 1/4	1250	86	5000	345	875	60	3500	241
1 1/2	1250	86	5000	345	875	60	3500	241
2	1250	86	5000	345	875	60	3500	241

## NT82 Flow Rate & Pressure Drop Charts

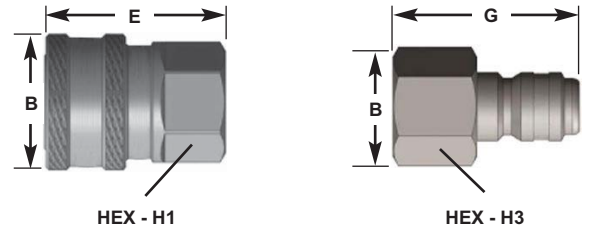


# Thorburn NT82 Series Technical Data

Straight-Through Interchange Coupler & Plug (Male Threads)



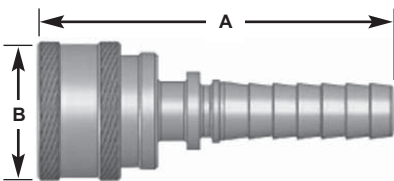
Straight-Through Interchange Coupler & Plug (Female Threads)



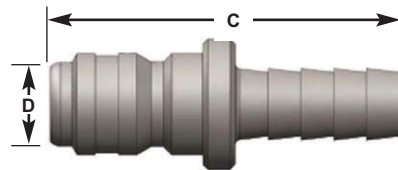
## Dimensional Information - Straight-Through Interchange Coupler & Plug (Male & Female Threads)

Nominal Size	Thread	A		B		C		D		E		G		H		H1		H2		H3	
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
1/4	1/4-18	1.72	43.7	0.97	24.6	1.56	39.6	0.65	16.5	1.50	38.1	1.45	36.8	0.79	20.1	0.81	20.6	0.69	17.5	0.69	17.5
3/8	3/8-18	1.75	44.5	1.16	29.5	1.69	42.9	0.79	20.1	1.59	40.4	1.63	41.4	0.94	23.9	1.00	25.4	0.81	20.6	0.88	22.4
1/2	1/2-14	2.03	51.6	1.34	34.0	2.01	51.1	1.01	25.7	1.91	48.5	1.92	48.8	1.15	29.2	1.13	28.7	1.00	25.4	1.00	25.4
3/4	3/4-14	2.22	56.4	1.72	43.7	2.20	55.9	1.23	31.2	2.06	52.3	2.01	51.1	1.37	34.8	1.44	36.6	1.19	30.2	1.81	46.0
1	1-11 1/2	2.53	64.3	2.03	51.6	2.49	63.2	1.59	40.4	2.33	59.2	2.21	56.1	1.80	45.7	1.75	44.5	1.56	39.6	1.50	38.1
1 1/4	1 1/4-11 1/2					2.72	69.1	2.02	51.3	2.44	62.0	2.34	59.4	2.31	58.7	2.00	50.8	2.00	50.8	2.00	50.8
1 1/2	1 1/2-11 1/2					3.31	84.1	2.60	66.0	2.88	73.2	2.88	73.2	2.60	66.0	2.60	66.0	2.25	57.2	2.25	57.2
2	2-11 1/2					3.50	88.9	3.18	80.8	3.09	78.5	3.03	77.0	3.18	80.8	3.00	76.2	2.75	69.9	2.63	66.8

Straight-Through Interchange Coupler (Hose Barb)



Straight-Through Interchange Plug (Hose Barb)



## Dimensional Information - Straight-Through Interchange Coupler & Plug (Hose Barb)

Nominal Size	A		B		C		D	
	in	mm	in	mm	in	mm	in	mm
1/4	2.06	52.2	1.00	25.4	1.90	48.3	0.56	14.2
3/8	2.03	51.6	1.13	28.6	2.03	51.6	0.63	16.0
1/2	3.45	87.6	1.34	34.0	2.09	53.1	0.75	19.1
3/4	3.64	92.3	1.64	41.7	2.28	57.9	1.13	28.7
1	4.58	116.2	1.99	50.5	3.28	83.3	1.38	35.1

Larger sizes available upon request

## How To Order Thorburn Series NT82 Quick Couplings

Model	Size	Coupler Half	Material	End Type	Seal Material	Options	Class
NT82	12	C	S6	FP	B	SL	NC2
	04 = 1/4" 06 = 3/8" 08 = 1/2" 12 = 3/4" 16 = 1" 20 = 1 1/4" 24 = 1 1/2" 32 = 2" 40 = 2 1/2"	C = Coupler P = Plug	S6 = 316SS BR = Brass	FP = Female NPT MP = Male NPT HB = Hose Barb XX = Special End	V = Viton B = Buna N E = EPDM K = FFKM	SL = Sleeve Lock None = Leave Blank	NC2 = Class 2 NC3 = Class 3 NC6 = Commercial Leave Blank

To Order Thorburn Dust Plug (Code DP) or Dust Cap (Code DC): Place model and the size after prefix NT82. Standard material is rubber (leave blank), Brass (Code BR), or Aluminum (Code AL).

Example:

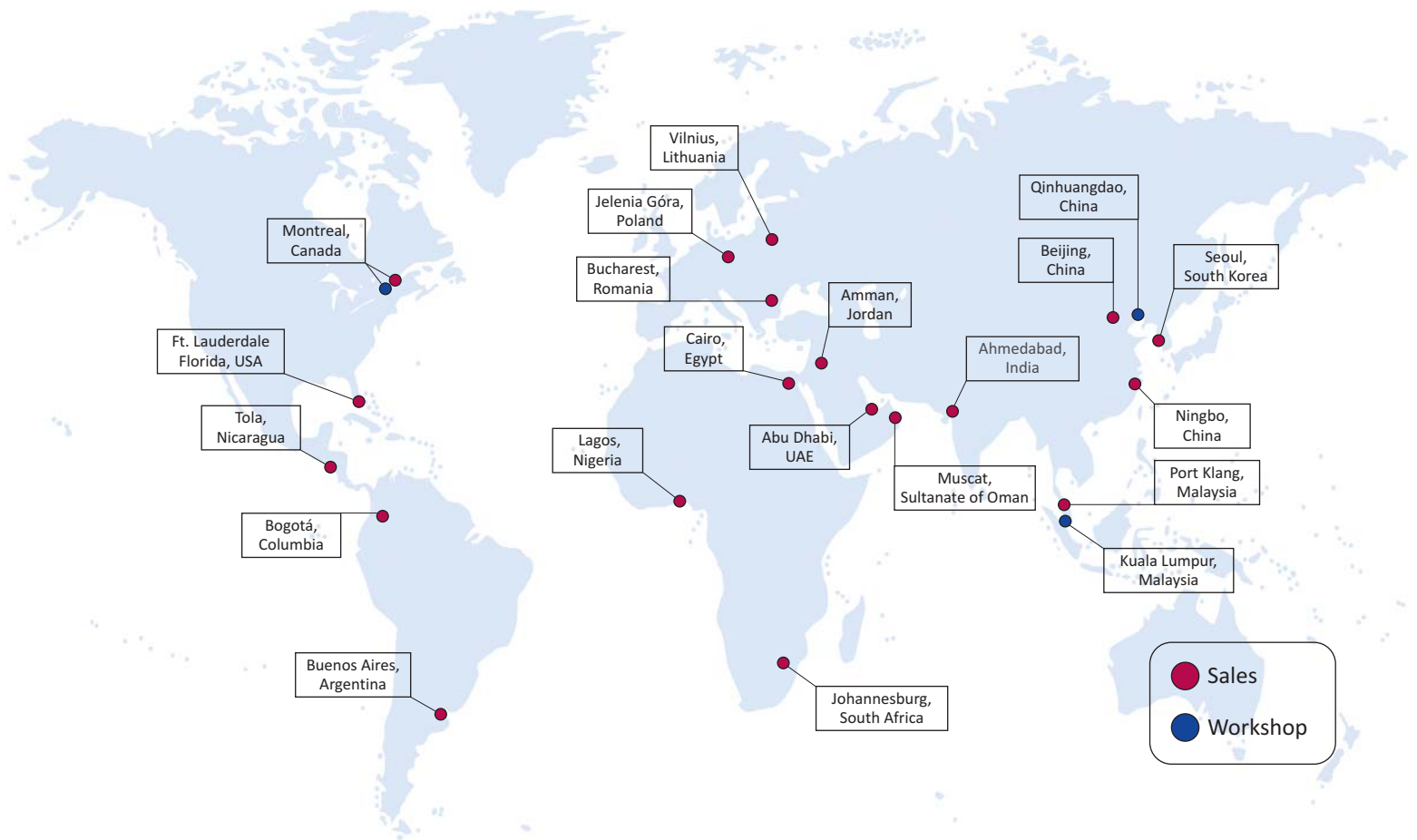
NT82DP-16-BR = Dust Plug 1" Brass | NT82DC-12-AL = Dust Cap 3/4" Aluminum | NT82DC-06 = Dust Cap 3/8" Rubber

**THORBURN FLEX - Canada**  
 165 Oneida, Pointe-Claire, Quebec  
 Canada, H9R 1A9  
 Tel: +1-514-695-8710  
 Fax: +1-514-695-1321  
 sales@thorburnflex.com



ISCIR Romania | CNCAN Romania | EN 13480-2002 | HAF 604 China | TSG China  
 (CRN for all Canadian Provinces)

# Thorburn's Global Presence



www.thorburnflex.com