



NT82 Quick Couplings

**Serving The Nuclear Industry**

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

## High Quality Custom Flexible Piping Systems



Thorburn Flex offers unmatched capabilities and expertise in applications engineering, design development and manufacture of custom flexible piping systems for PHWR/PWR nuclear power plants. Operating under a strategy of global presence, Thorburn Flex has structured and developed a specific nuclear business unit used to service this niche market sector. Through this nuclear business unit, our products consistently meet and exceed all quality design requirements of our PHWR/PWR nuclear reactor business partners.

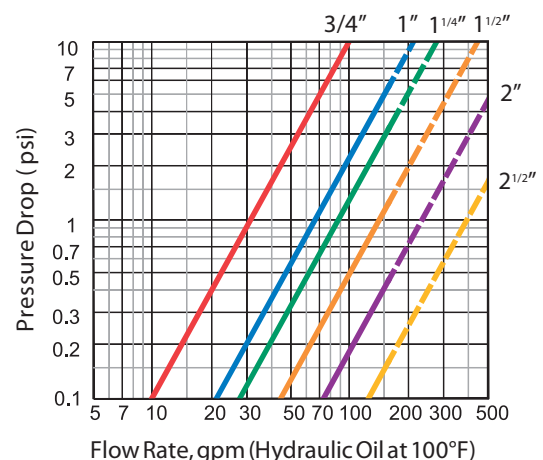
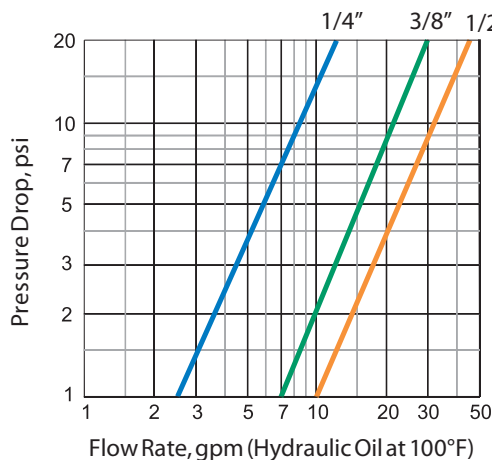
### NT82 Straight Through System

Thorburn's NT82 Series straight-through quick couplings are designed for use where minimum pressure drop is required and valving is not needed.

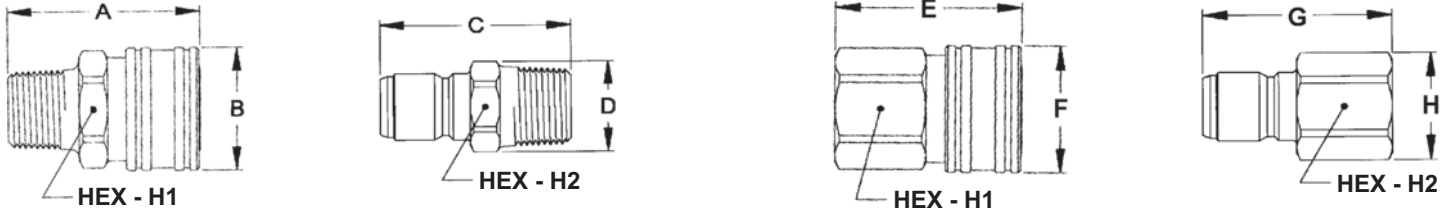
#### Advantages:

- 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 N285.2 and ASME Section III, Class 2, 3 & 6 Service
- Standard Material - Brass (ASTM B16/B21) & 316 Stainless Steel

## NT82 Flow Rate & Pressure Drop Charts



## NT82 Series Technical Data



### Dimensional Information

Nominal Size	Thread	A		B		C		D		E		F		G		H		H1		H2	
		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	0.97	24.6	1.45	36.8	0.79	20.1	0.81	20.6	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	1.16	29.5	1.63	41.4	0.94	23.9	1.00	25.4	0.81	20.6
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	1.34	34.0	1.92	48.8	1.15	29.2	1.13	28.7	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	1.72	43.7	2.01	51.1	1.37	34.8	1.44	36.6	1.19	30.2
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	2.03	51.6	2.21	56.1	1.80	45.7	1.75	44.5	1.56	39.6
1 1/4	1 1/4-11 1/2					2.72	69.1	2.02	51.3	2.44	62.0	2.50	63.5	2.34	59.4	2.31	58.7	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	3.13	79.5	2.88	73.2	2.60	66.0	2.60	66.0	2.25	57.2
2	2-11 1/2					3.50	88.9	3.18	80.8	3.09	78.5	3.75	95.3	3.03	77.0	3.18	80.8	3.00	76.2	2.75	69.9
2 1/2	2 1/2-8					4.24	107.7	3.75	95.3	3.44	87.4	4.50	114.3	3.37	85.6	3.75	95.3	3.50	88.9	3.25	82.6

### Pressure Rating

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
2 1/2	900	62	3600	248	630	43	2520	174



## How to Order NT82 Quick Couplings

### Part Number Example & Description

(Part number must follow the order listed below)

## NT82-12-C-S6-FP-B-SL-NC2

NT82 TYPE	12 SIZE	C COUPLING HALF	S6 MATERIAL	FP END TYPE FITTING	B SEAL	SL OPTIONS	NC2
NT82	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" 48= 3"	C= Coupler N= Nipple DP= Dust Plug DC= Dust Cap	B=Brass S6=SS316	FP= Female NPT XX= Special End	V=Viton B= Buna N E= EPDM	SL= Sleeve Lock NV= Non Valved	NC3= Class 3 NC2= Class 2 Blank= Class 6

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

sales@thorburnflex.com

1-800-363-6613  
(Toll Free North America)



European  
Conformaty



ISO  
9001:2015



B31.1,  
B31.3



ASME "NPT"  
Sec. III Class 1



ASME "U"  
Sec. VIII Div. 1



N285.0, B51  
CGA CR96-001



97/23/EC  
Module H



UL  
536

ISIR Romania | CNCAN Romania | EN 13480-2002 | HAF 604 China | TSG China

(CRN for all Canadian provinces)



*Over 50 years of flexible piping experience  
waiting to serve you...*