

# HPX1 Series

High Purity PFA Heat Exchanger

aerospace  
climate control  
electromechanical  
filtration  
fluid & gas handling  
hydraulics  
pneumatics  
process control  
sealing & shielding

## Submersible Heat Exchanger for High Resolution Process Temperature Control:

The Parker HPX1 PFA Heat Exchanger enables high resolution temperature control of processing chemicals or high purity water. Built with a special PFA tubing, the HPX1 offers high performance heat transfer to surrounding fluids while ensuring process purity and safety through a leak-proof design.

The HPX1 is available in different lengths and end connections to provide the configuration best suited for your needs. This flexibility puts you in control of your processes.



## Contact Information:

Parker Hannifin Corporation  
Veriflo Division  
Chemical Delivery Products  
7075 East Southpoint Road  
Tucson, Arizona 85756

phone 520 574 2600  
fax 520 574 2700

[www.parker.com/veriflo](http://www.parker.com/veriflo)  
Mobile App: [m.parker.com/veriflo](http://m.parker.com/veriflo)

## Product Features:

- Submersible heat exchanger mounts inside a tank requiring no external space for installation
- Built with 85 special thin walled PFA tubes designed to maximize heat transfer while maintaining a high pressure rating
- Ideal for semiconductor and pharmaceutical process control applications
- Operates in a wide temperature and pressure range making the HPX1 compatible with most chemical processing conditions.
- Leak proof design assures integrity of process chemicals
- Product manufactured in the USA

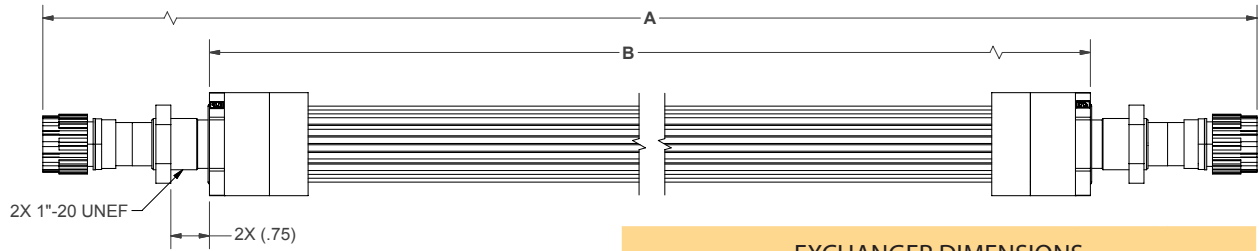


ENGINEERING YOUR SUCCESS.

# HPX1 Series

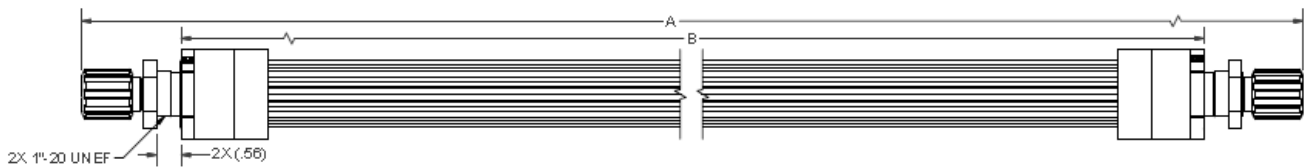
## Dimensional Drawing

### PILLAR END CONNECTIONS 1/2"



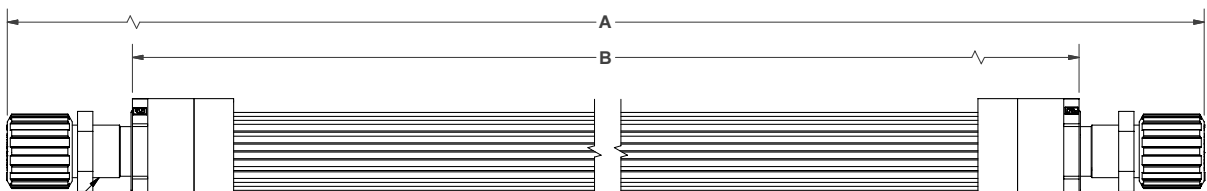
EXCHANGER DIMENSIONS				
Part Number	A		B	
	in	m	in	m
HPX1036080899P(_NPO)	44.86	1.139	38.39	0.975
HPX1070080899P(_NPO)	78.86	2.003	72.39	1.839
HPX1084080899P(_NPO)	92.86	2.359	86.39	2.194

### PARFLARE END CONNECTION 1/2"



EXCHANGER DIMENSIONS				
Part Number	A		B	
	in	m	in	m
HPX1036080866P(_NTO)	42.8	1.087	38.39	.975
HPX1070080866P(_NTO)	76.8	1.951	72.39	1.839
HPX1084080866P(_NTO)	91.48	2.324	86.39	2.194
HPX1036080866P(_NH0)	43.48	1.104	38.39	.975
HPX1070080866P(_NH0)	77.48	1.938	72.39	1.839
HPX1080080866P(_NH0)	91.48	2.324	86.39	2.194

### PARFLARE END CONNECTION 3/4"



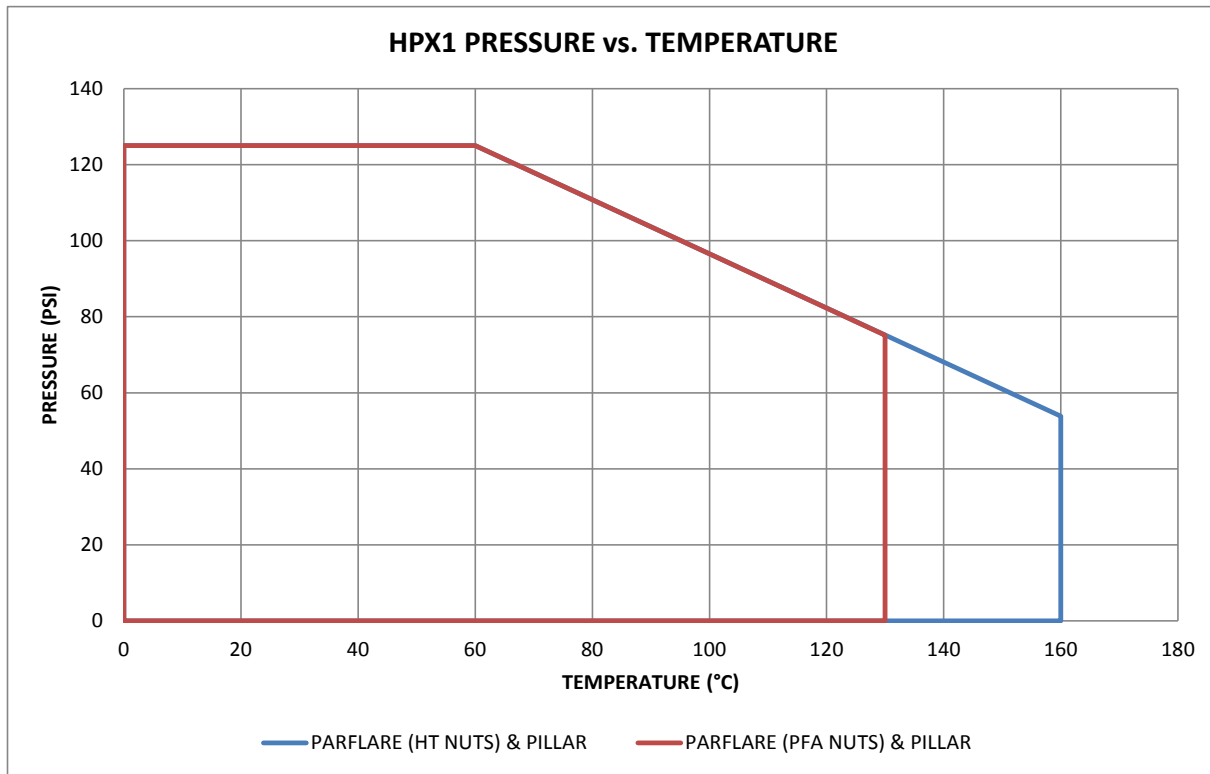
EXCHANGER DIMENSIONS				
Part Number	A		B	
	in	m	in	m
HPX1036121266P(_NTO)	43.13	1.096	38.39	0.975
HPX1084121266P(_NTO)	91.13	2.315	86.39	2.194
HPX1036121266P(_NH0)	44.13	1.120	38.39	0.975
HPX1084121266P(_NH0)	92.13	2.340	86.39	2.194

# HPX1 Series

Materials of Construction	
Wetted Options	PFA
Non-wetted Options	PERFLUROELASTOMER (O-RING), TEFZEL® (HT NUT), PFA, POLYPROPYLENE (Spacer Plates)
Pressure Ranges	
Operating	See Pressure -vs- Temperature Chart
Temperature Ranges	
Storage	-40° - 150° F (-40° - 66° C)
Fluid	32° - 266° F (0° - 130° C) Parflare (PFA Nuts) * 32° - 320° F (0° - 160° C) Parflare (HT Nuts & Pillar) *

Flow Capacity (approximate)	
36" w/ 1/2" Connections	Cv 2.7
36" w/ 3/4" Connections	Cv 4.2
70" w 1/2" Connections	Cv 2.3
84" w/ 3/4" Connections	Cv 3.0

\* Spacer Plates limit temperature to 100° C.



# HPX1 Series

## Ordering Information

Build a HPX1 Series Heat Exchanger by replacing the numbered symbols with an option from the corresponding tables below.

Sample: 1 2 3 4 5 6 7 8 9 10 11  
 Finished HPX1036080866PPNT1

1 Basic Series  
 HPX1

2 Length  
 036 = 36 in / 3 ft  
 070 = 70 in / 5.83 ft  
 084 = 84 in / 7 ft

3 Inlet Connection Size  
 08 = 1/2"  
 12 = 3/4" (not available in Pillar)

4 Outlet Connection Size  
 08 = 1/2"  
 12 = 3/4" (not available in Pillar)

5 Inlet Connection Type  
 6 = Flare  
 9 = Pillar

6 Outlet Connection Type  
 6 = Flare  
 9 = Pillar

7 Panel Nut  
 N = None  
 P = PFA Panel Nut

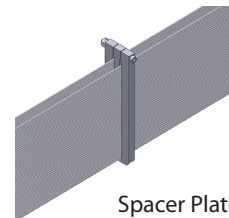
8 O-Ring  
 N = None  
 P = PK (only w/Panel Nut)

9 High Purity  
 N = High Purity PFA Tubing

10 Nuts  
 N = None  
 P = Pillar  
 T = PFA Nuts, Flare  
 H = HT Nuts, Tefzel Flare Nut

11 Spacer Options  
 0 = No Spacer Plate  
 1 = 1 Spacer Plate \*  
 2 = 2 Spacer Plates \*  
 \* Spacer Plates are shipped unassembled and limits temperature to 100° C.

**Note for items 3, 4, 5, & 6:**  
 Inlet and outlet connection size and type may not be mixed.



Spacer Plates can be ordered individually with PN 54024457

OFFER OF SALE:

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 **WARNING USER RESPONSIBILITY**

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