

Bright
ENGINEERS

Shell & Tube Condenser





Bright is an Indian based manufacturing engineering company that designs, manufactures & offers reliable, cost effective industrial engineering products mainly

Heat Ex-changer's for Air Conditioning & Refrigeration industries and Water / Air / Gas / Oil cooling applications since 1981.

Vision & Mission

Bright's **Vision** is to become a leading reputed manufacturer & provider of Shell & Tube Condensers & Evaporators in Indian market with the best possible design to deliver efficient performance by using better designed & developed material & quality workmanship at reasonable cost.

Bright's **Mission** is to expand and continually improve utilizing quality practices and employee involvement to manufacture Heat Ex-changer's for the Refrigeration industry, both in the domestic and international markets, that result in customer and employee satisfaction.

What is a Heat Ex-changer

A heat ex-changer is an equipment that is used to transfer heat between two different fluids without mixing with each other. Heat ex-changer's are used in both cooling and heating processes. Heat Ex-changer's are very important in any Air Conditioning & Refrigeration System.

Heat Ex-changer plays a vital role in any AC & R System. With perfect designing & selection of proper material, HE's shall save the energy & environment. Bright is a team of professional engineers, designing with technical calculation & selection of suitable material to deliver best performance and result.

Products

- Shell & Tube type Water Cooled Condenser
- Shell & Tube type Evaporator (U-Bundle design & Straight Tube design)
- Shell In Shell type Evaporator
- Oil Coolers
- Inter / After Coolers

Condenser Model Nomenclature

B	CD	XXX	X	XX
Bright	Condenser	Model No.	Length Variations S X M Y W Z	NS – Non Standard SW – Sea Water HP – High Pressure

Evaporator Model Nomenclature

B	CH	XXX	X	XX
Bright	Chiller	Model No.	Circuit S – Single D – Double T – Triple Q – Four	NS – Non Standard BT – Brine Temperature SS04 – SS304 Construction SS16 – SS316 Construction

Bright's shell and tube condensers represent the flawless solution for all the application where HFC condensation is required such as Water cooled chillers, Condensing units and heat pumps for industrial cooling & air conditioning in combination with

different types of processes and Commercial refrigeration plants with water cooled condensation. On-board or all the other applications where sea, lake or river water is available.



Air Conditioning



Industrial & Process Cooling Refrigeration



Marine Refrigeration

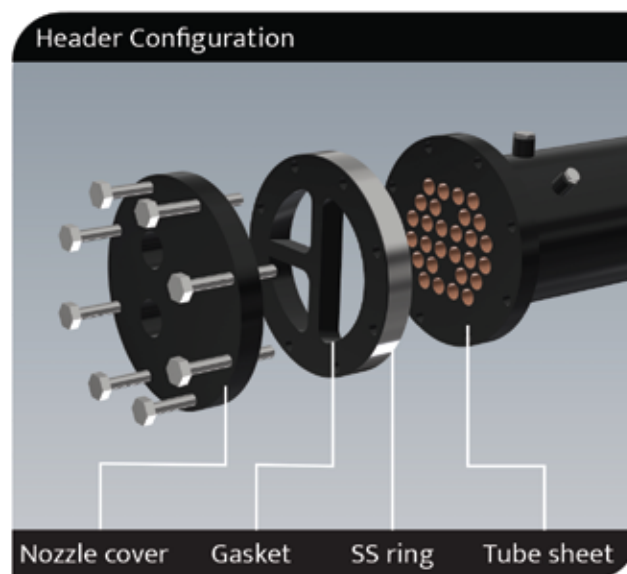


Commercial Refrigeration

An Extensive Range

Bright's Shell & Tube Condenser production includes a various range of condensers providing easy solutions for Air conditioning, Refrigeration and Cooling application including marine applications.

- Bright condensers have been carefully optimized for the most used HCFC / HFC refrigerants.
- All condenser models are easily openable for inspection and maintenance purposes.
- Standard models attain condensation capacity ranging from 3 to 900 kW. Also higher capacity models shall be offered on request.
- Multi circuit (2/3/4) condensers are also available on request for multi-circuit chillers.
- Customized length with different MOC can be designed for specific application as per request.
- Bright's quality systems are certified in accordance with ISO 9001 : 2015, which further improves the warranty of the S & T condenser.



Salient Features & Benefits

- 1) **High Performance** due to exceptionally designed integrally finned (enhancing Heat Transfer area) & inner grooved (for better performance due to turbulence on water side path) Copper / Cupro-Nickle tubes and specific tube geometry pattern.
- 2) **Low Ref. Gas volume requirement** due to compact Size, less space consumption & less weight.
- 3) **Wide model range** for easy and ideal selection.
- 4) **Optimized for Various Refrigerant Gas** – R-22 / R-134a / R- 404a / R-407c / R-410a (Ammonia Ref. Gas shall be available on request).
- 5) **2 passes & 4 passes version** (3 pass available on request).
- 6) **Easily open-able** for inspection & maintenance / cleaning.
- 7) **Solutions for applications with fresh water & sea water.**
- 8) **All the material are thoroughly inspected, tested & manufactured as per standard pressure vessel codes.** Specific third party inspections / approvals available on request.
- 9) **All condensers are pressure & leak tested** before delivery ensuring top quality products.
- 10) **Extra care taken for proper Internal & external cleaning** to run system smoothly.
- 11) **Synthetic enamel spray painting** with prior primer coating to make product more attractive.
- 12) **Proper packing** make equipment reach your place safely.

Manufacturing Quality & Efficient Component Design

Models designed for fresh water application has following major components.

- Shell : Carbon steel
- Tube sheet : Carbon steel
- Tubes : Copper (Integrally finned & Inner-grooved)
- End Covers : Carbon steel
- Gasket : Thermopolymer compound
- Hardware : Graded Alloy Steel as per pressure requirements (High Tensile)

Bright's Condensers are also available in stainless steel execution (AISI 304 / 316 / 316L) for corrosive atmosphere.

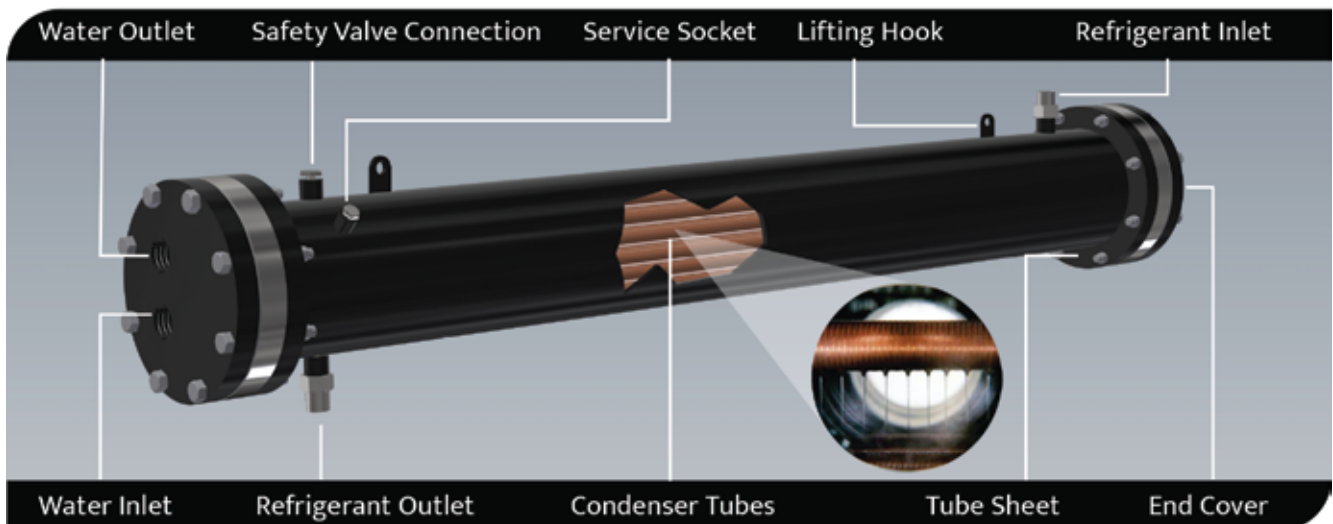
Bright shell and tube Condensers have a high level of mechanical strength and resistance to vibration and corrosion.

All machining, drilling operations are carried out with CNC/VMC for accuracy to meet required quality.

The material selection is done not only to achieve

Heat Ex-change target, but also to meet pressure needs due to years of intensive usage.

All the carbon steel components are sand blasted and cleaned thoroughly including the internal wall of the shell before assembly. Also, tube sheets & end covers are completely zinc-coated to avoid corrosion and rusting. Provision of sight glass on shell side is available as an option.



Marine application (Sea Water Condensers)

Different condenser models are available ranging from 15 kW to 900 kW, for on board marine applications and for all the other installations where it is mandatory to use the sea as a natural source of cooling water.

Marine models are equipped with the following components:

- Shell : Carbon steel
- Tube sheets : AISI 316L stainless steel
- Tubes : Integrally finned Cu/Ni tubes (90/10% or 70/30%)
- Covers : AISI 316L stainless steel
- Gasket : Thermopolymer compound

Marine units are provided with interchangeable sacrificing anodes made of special metal to protect equipment.



Quality & Approvals

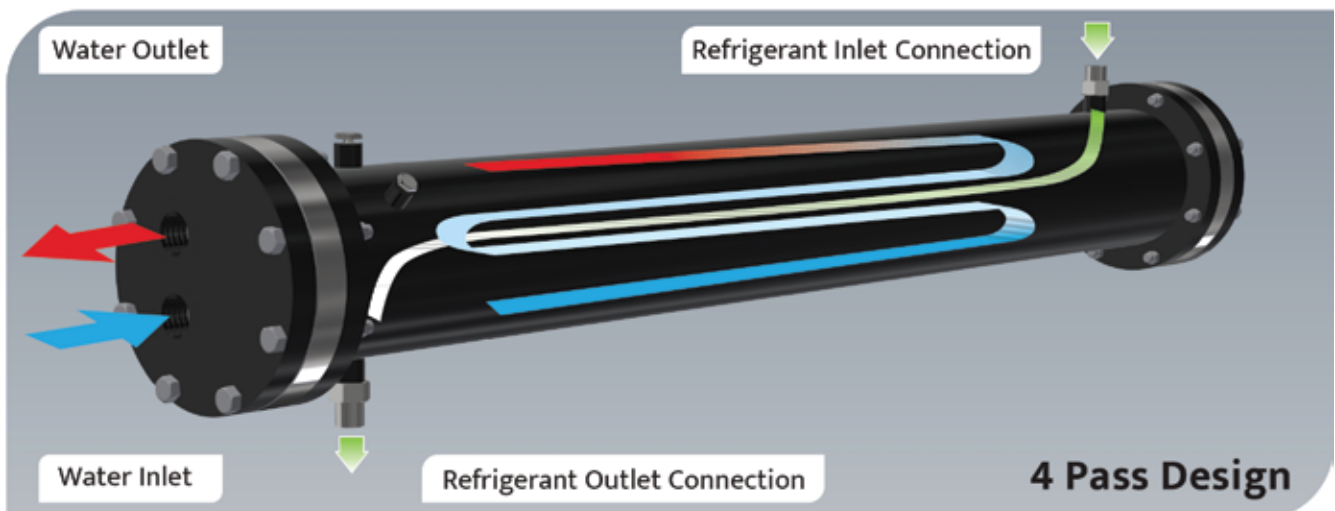
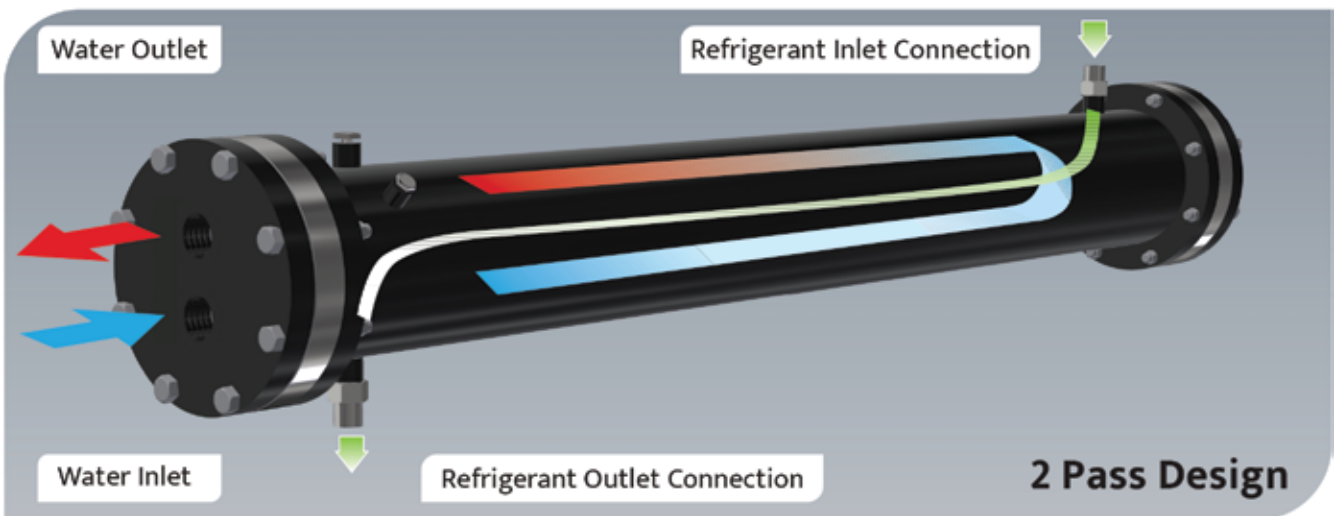
The working limits are defined by the design pressure (i. e. the maximum working pressure) and the working temperature range. These limits depend on the pressure vessel approval required. Bright's condensers are available as a standard with the most diffused pressure vessel approvals. On request marine or other specific approvals are available.

Testing Pressure Limits

Bright's shell and tube condensers are manufactured in accordance with ISO 9001:2015. Each and every unit goes through an individual pressure / leak test as specified by the relevant authority and in accordance with Bright's internal quality testing procedures.

Nominal Data	Unit	Bright (Self Inspected)	CE (PED 97/23 EC)	ASME
Design pressure refrigerant side	bar	20	30	30
Test pressure refrigerant side	bar	23	43	45
Design pressure water side	bar	5	10	10.3
Test pressure water side	bar	10	15	15.5
Design temperature range	°C.	(-) 10°C / (+) 90°C	(-) 10°C / (+) 90°C	(-) 10°C / (+) 90°C

Versions



Best Performance with preventive maintenance

Shell and tube condensers are often used with impure / hard water for heavy duty applications. It is a thrilling challenge for a designed product in order to have a long working life and efficient performance. In these cases, periodical cleaning is required in order to

keep the heat exchanger's performances unchanged over a period of time. Bright's fresh and sea water condensers ensure easy opening for inspection, cleaning and maintenance purposes.

The nominal performances have been calculated on the basis of a Fouling Factor equal to 0.000043 m²K/W (0.0005 h m²K/kcal)

v > 1.2 m/s	Normal city Water Treated tower water Clean river water Sea Water	FF 0.000086 m ² K/W
v > 1.2 m/s	City lime water Normal tower water Brine	FF 0.000172 m ² K/W
v > 1.2 m/s	Tower lime water Muddy water	FF 0.000344 m ² K/W



Variation available in Connections

Refrigerant side :

- Coupling Connections (NPT)
- Rotolock Connections
- Bush Connections
- Pipe Connections

Reference page no : 21 & 22

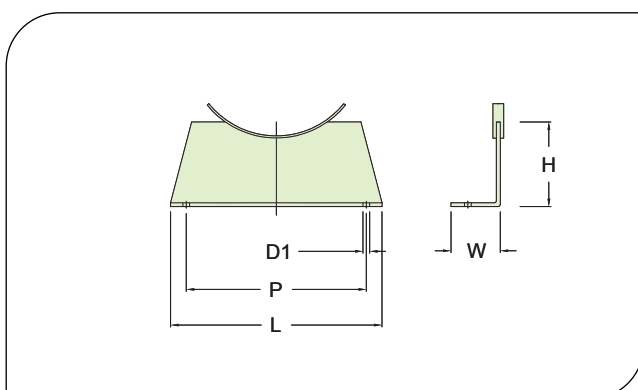
Water Side :

- Threaded Connections (BSP)
- Pipe connections
- Flange Connections
- Victaulic Connections

Supports / Mountings

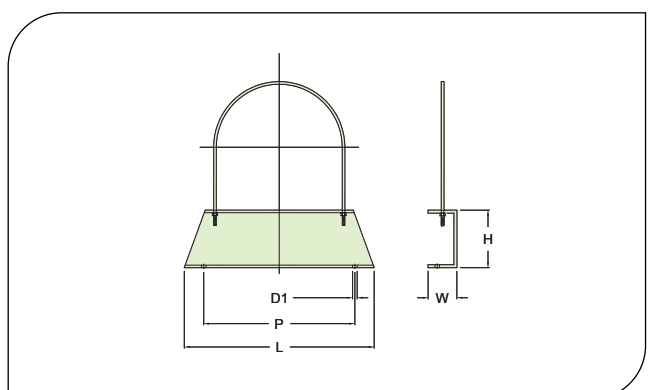
Weldable Mounting bracket :

Bright's Condenser can be provided with supports welded to the shell.



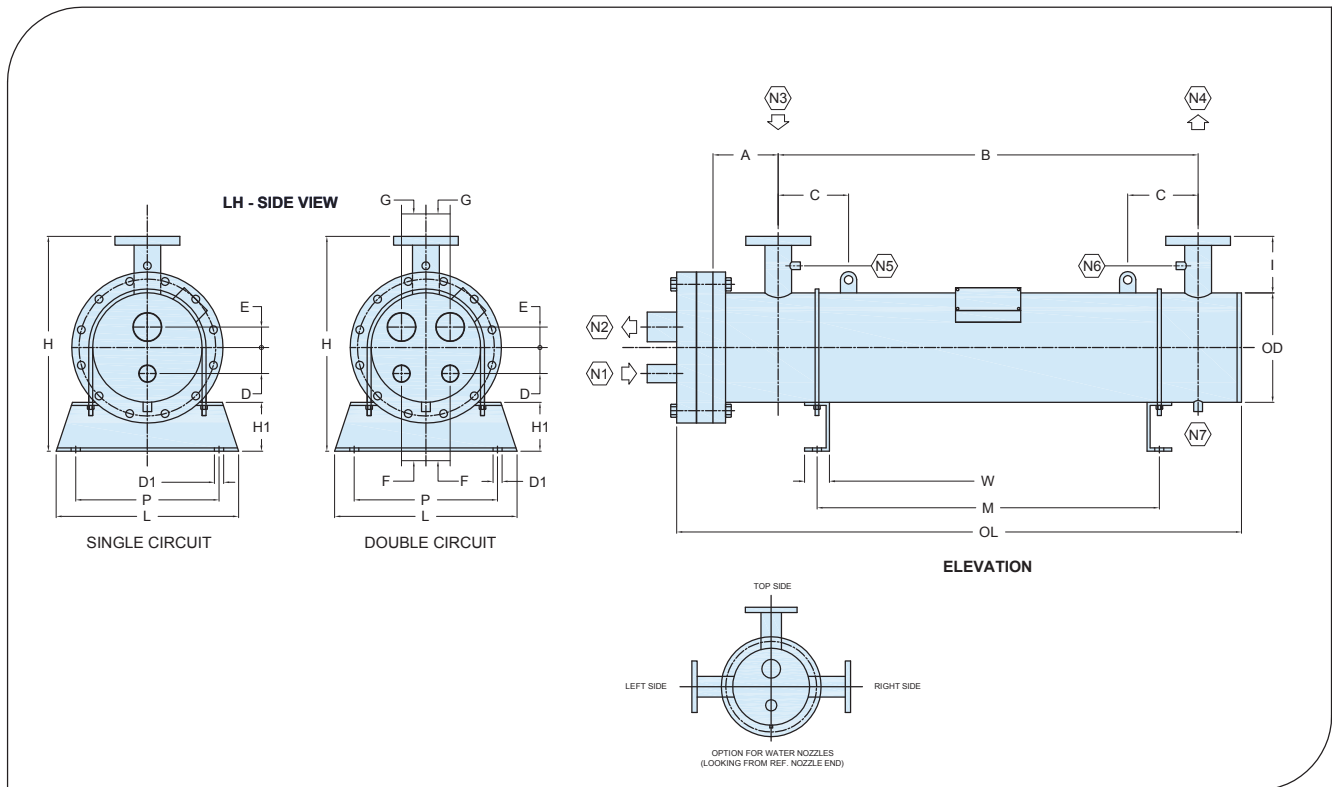
"U" Clamp Mounting bracket :

Universal "U" Clamp brackets are easily movable across the length & positioned as per convenience during the installation with ease and flexibility.



* Illustrated in technical data pages

Shell & Tube Evaporator

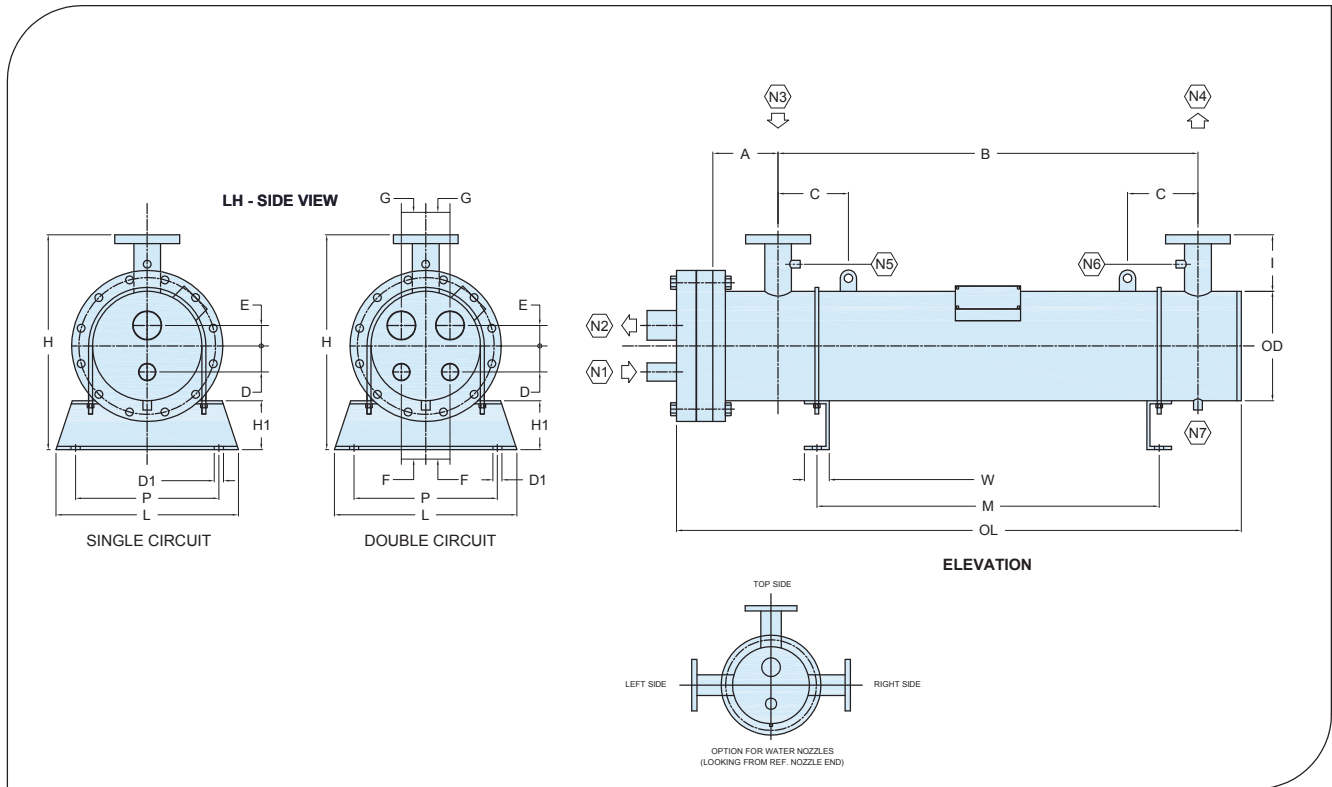


MODEL			BCH 18S	BCH 28S	BCH 35S	BCH 47S	BCH 56S	BCH 65S	BCH 80S	BCH 95S	
DETAILS	SIGN	UNIT	BCH 18D	BCH 28D	BCH 35D	BCH 47D	BCH 56D	BCH 65D	BCH 80D	BCH 95D	
Dimension	OD	mm	140	140	140	140	168	168	168	168	
	OL	mm	887	1037	1257	1407	1281	1431	1631	1781	
	A	mm	85	85	85	85	95	95	95	95	
	B	mm	690	840	1040	1190	1030	1180	1380	1530	
	C	mm	175	175	180	180	190	190	190	190	
	D	mm	35 30	35 30	35 30	35 30	40 35	40 35	40 35	40 35	40 35
	E	mm	35 28	35 28	35 28	35 28	40 35	40 35	40 35	40 35	40 35
	F	mm	32	32	32	32	37	37	37	37	37
	G	mm	33	33	33	33	37	37	37	37	37
	H	mm	345	345	345	345	373	373	373	373	373
	I	mm	130	130	130	130	130	130	130	130	130
	J	mm	-	-	-	-	-	-	-	-	-
K	mm	-	-	-	-	-	-	-	-	-	
Mounting Bracket	D1	mm	14	14	14	14	14	14	14	14	
	P	mm	200	200	200	200	220	220	220	220	
	L	mm	250	250	250	250	280	280	280	280	
	W	mm	38	38	38	38	38	38	38	38	
	M	mm	490	640	830	980	800	950	1150	1300	
	H1	mm	75	75	75	75	75	75	75	75	75
Connection	N1	-	RC 22 16	RC 22 16	RC 22 16	RC 22 16	RC 22 22	RC 22 22	RC 22 22	RC 22 22	
	N2	-	RC 35 28	RC 35 28	RC 35 28	RC 35 28	RC 42 35	RC 42 35	RC 42 35	RC 42 35	
	N3	-	FC 40	FC 40	FC 50	FC 50	FC 65	FC 65	FC 65	FC 65	
	N4	-	FC 40	FC 40	FC 50	FC 50	FC 65	FC 65	FC 65	FC 65	
	N5 / N6	Inch	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
	N7	Inch	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
	Volumes	V-Ref.	dm3	3.3	4.1	5	5.7	7.4	8.4	9.6	10.6
	V-H2O	dm3	7.2	8.7	10.7	12.2	16.1	18.3	21	23	
Weight	W	Kg	41	44	52	56	65	70	76	81	

N1 Refrigerant Inlet
 N2 Refrigerant Outlet
 N3 Water Inlet
 N4 Water Outlet

N5 Service Socket
 N6 Service Socket
 N7 Water Drain Port

OD Outer Diameter
 OL Overall Length
 V-Ref Refrigerant Volume
 V-H2O Water Volume



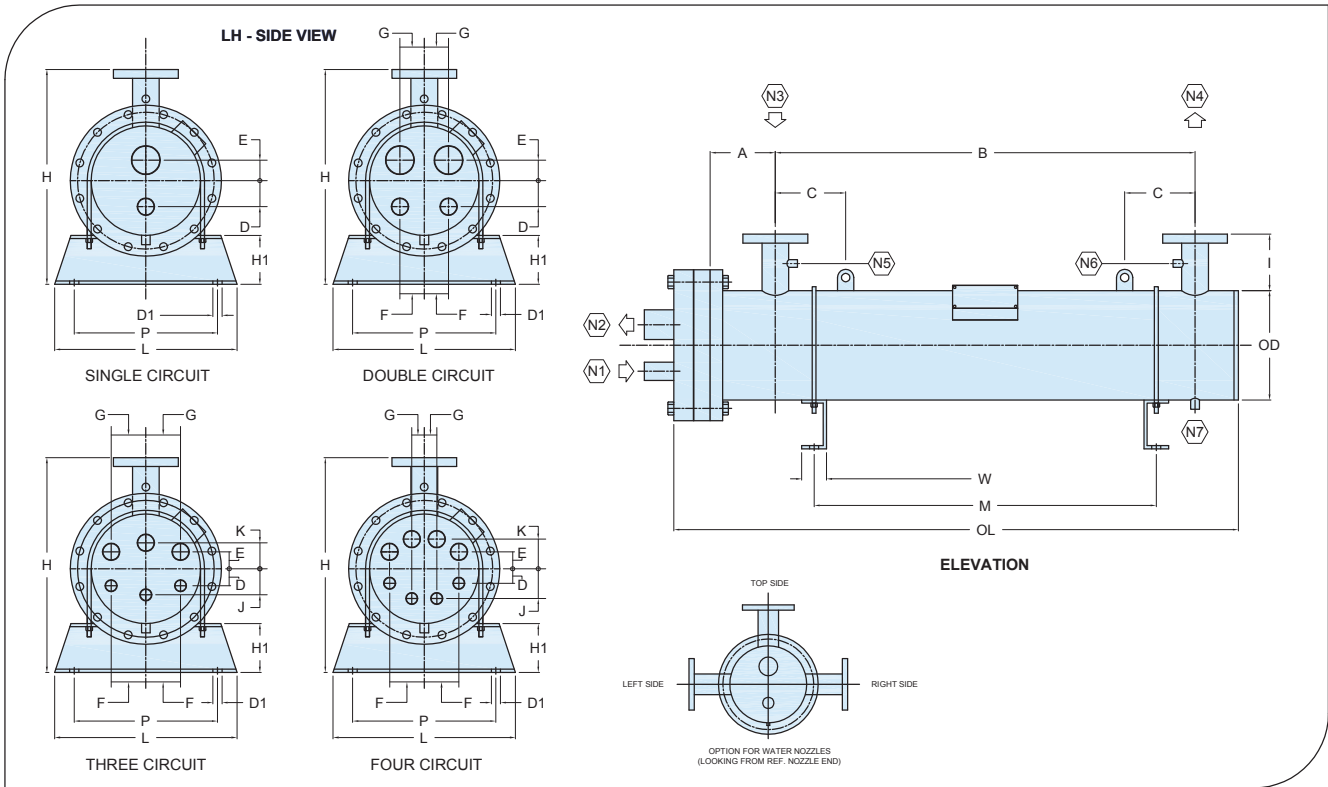
MODEL			BCH 100S	BCH 120S	BCH 135S	BCH 165S	BCH 200S	BCH 240S	BCH 245S
DETAILS	SIGN	UNIT	BCH 100D	BCH 120D	BCH 135D	BCH 165D	BCH 200D	BCH 240D	BCH 245D
Dimension	OD	mm	219	219	219	219	219	219	273
	OL	mm	1215	1465	1685	1845	2320	2620	1635
	A	mm	105	105	105	105	125	125	130
	B	mm	960	1210	1430	1590	2000	2300	1340
	C	mm	190	190	195	195	210	210	210
	D	mm	45 50	45 50	45 50	45 50	45 50	45 50	65 55
	E	mm	55 44	55 44	55 44	55 44	55 44	55 44	65 60
	F	mm	47	47	47	47	47	47	57
	G	mm	47	47	47	47	47	47	57
	H	mm	469	469	469	469	469	469	523
	I	mm	130	130	130	130	150	150	150
J	mm	-	-	-	-	-	-	-	
K	mm	-	-	-	-	-	-	-	
Mounting Bracket	D1	mm	14	14	14	14	14	14	14
	P	mm	280	280	280	280	280	280	340
	L	mm	330	330	330	330	330	330	390
	W	mm	50	50	50	50	50	50	50
	M	mm	730	980	1190	1350	1760	2060	1070
H1	mm	100	100	100	100	100	100	100	
Connection	N1	-	RC 28 28	RC 28 28	RC 28 28	RC 28 28	RC 35 28	RC 35 28	RC 35 35
	N2	-	BC 54 RC 42	BC 54 RC 42	BC 54 RC 42	BC 54 RC 42	BC 67 RC 42	BC 67 RC 42	BC 67 54
	N3	-	FC 65	FC 65	FC 80	FC 80	FC 100	FC 100	FC 100
	N4	-	FC 65	FC 65	FC 80	FC 80	FC 100	FC 100	FC 100
	N5 / N6	Inch	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	N7	Inch	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Volumes	V-Ref.	dm3	12.6	15.4	17.9	19.7	24.8	28.3	28.4
	V-H2O	dm3	26.6	32.4	37.5	41.2	51.7	58.7	55.4
Weight	W	Kg	93	106	117	125	151	151	183

N1 Refrigerant Inlet
 N2 Refrigerant Outlet
 N3 Water Inlet
 N4 Water Outlet

N5 Service Socket
 N6 Service Socket
 N7 Water Drain Port

OD Outer Diameter
 OL Overall Length
 V-Ref Refrigerant Volume
 V-H2O Water Volume

Shell & Tube Evaporator



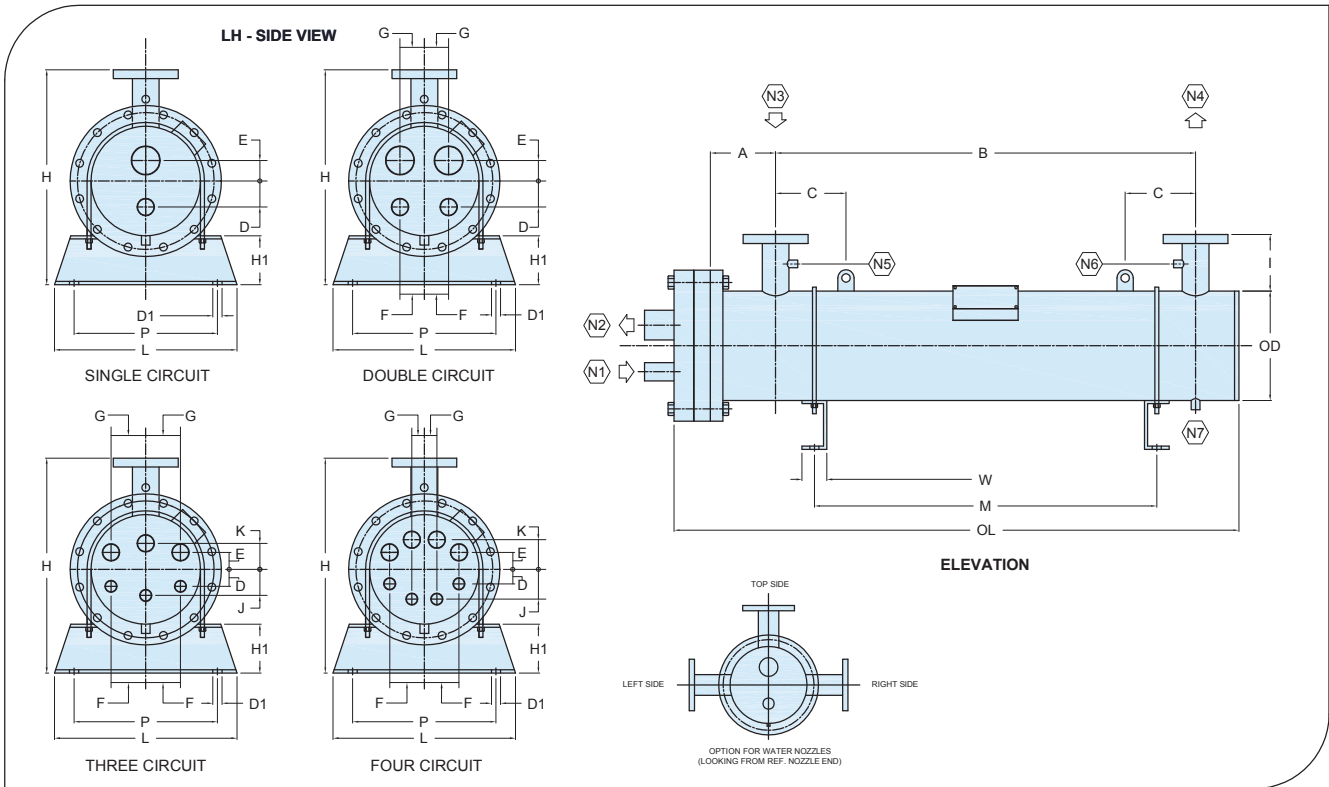
MODEL			BCH 245T	BCH 300S	BCH 300T	BCH 345S	BCH 345T	BCH 385S	BCH 385T
DETAILS	SIGN	UNIT	BCH 245Q	BCH 300D	BCH 300Q	BCH 345D	BCH 345Q	BCH 385D	BCH 385Q
Dimension	OD	mm	273	273	273	273	273	273	273
	OL	mm	1635	1985	1985	2385	2385	2654	2654
	A	mm	130	130	130	130	130	130	130
	B	mm	1340	1690	1690	2090	2090	2280	2280
	C	mm	210	210	210	210	210	210	210
	D	mm	52 38	65 55	52 38	65 55	52 38	65 55	52 38
	E	mm	52 38	65 60	52 38	65 60	52 38	65 60	52 38
	F	mm	80 38	57	80 38	57	80 38	57	80 38
	G	mm	80 90	57	80 90	57	80 90	57	80 90
	H	mm	523	523	523	523	523	523	523
	I	mm	150	150	150	150	150	150	150
	J	mm	80 90	-	80 90	-	80 90	-	80 90
K	mm	80 90	-	80 90	-	80 90	-	80 90	
Mounting	D1	mm	14	14	14	14	14	14	14
	P	mm	340	340	340	340	340	340	340
	L	mm	390	390	390	390	390	390	390
	W	mm	50	50	50	50	50	50	50
	M	mm	1070	1420	1420	1820	1820	2010	2010
	H1	mm	100	100	100	100	100	100	100
Connection	N1	-	RC 35 22	RC 42 35	RC 35 22	RC 42 35	RC 35 22	RC 42 35	RC 35 22
	N2	-	BC 54 RC 42	PC 80 BC 54	BC 54 RC 42	PC 80 BC 54	BC 54 RC 42	PC 80 BC 54	BC 54 RC 42
	N3	-	FC 100	FC 100	FC 100	FC 100	FC 100	FC 100	FC 100
	N4	-	FC 100	FC 100	FC 100	FC 100	FC 100	FC 100	FC 100
	N5 / N6	Inch	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	N7	Inch	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	Volumes	V-Ref.	dm3	28.3 26.3	34.8	34.8 32.2	42.2	42.2 39	46.6
V-H2O		dm3	55.3 57.4	67.7	67.6 70.2	81.7	81.6 84.8	89.9	89.9 93.4
Weight	W	Kg	183	213	213	248	248	262	262

N1 Refrigerant Inlet
 N2 Refrigerant Outlet
 N3 Water Inlet
 N4 Water Outlet

N5 Service Socket
 N6 Service Socket
 N7 Water Drain Port

OD Outer Diameter
 OL Overall Length
 V-Ref Refrigerant Volume
 V-H2O Water Volume

Shell & Tube Evaporator



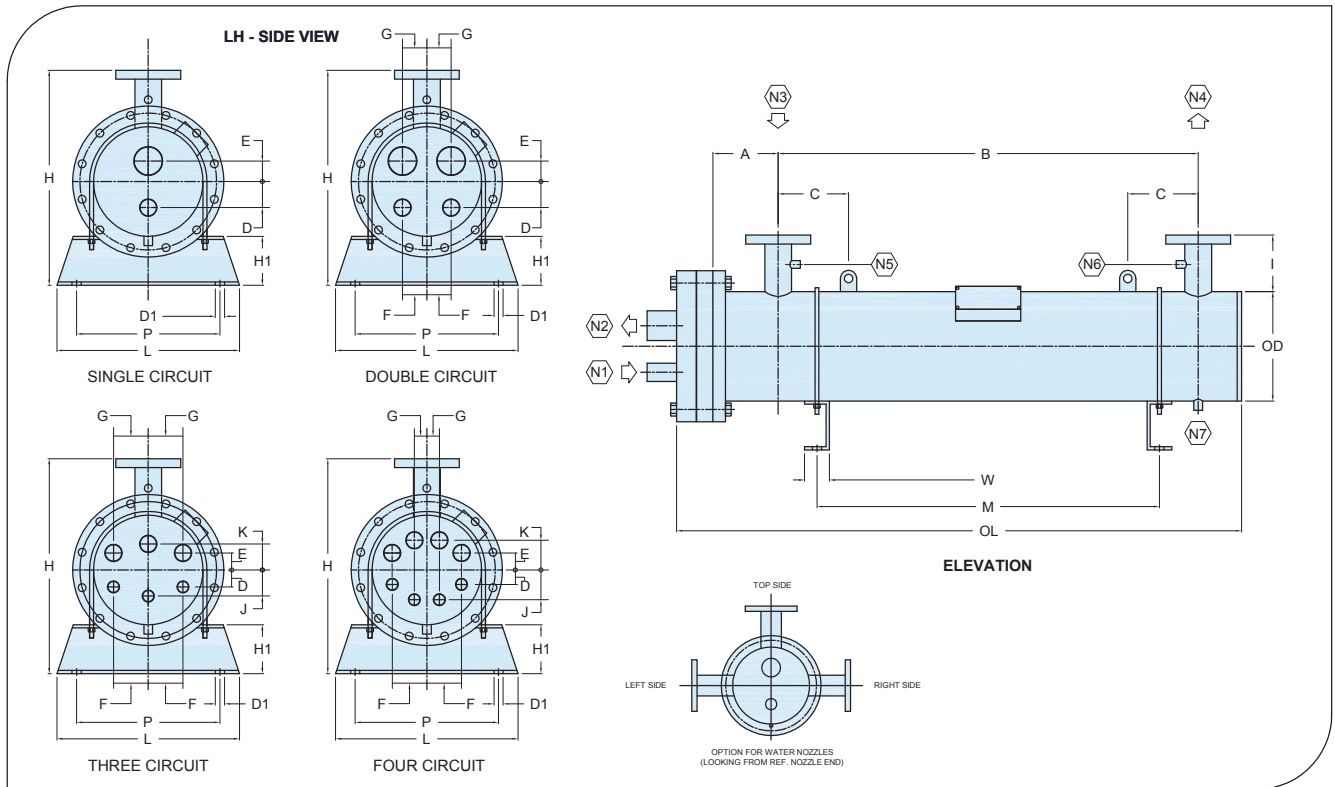
MODEL			BCH 400D	BCH 400Q	BCH 435D	BCH 435Q	BCH 450D	BCH 450Q	BCH 505D
DETAILS	SIGN	UNIT	BCH 400T		BCH 435T		BCH 450T		BCH 505T
Dimension	OD	mm	324	324	324	324	324	324	324
	OL	mm	1790	1790	2020	2020	2120	2120	2425
	A	mm	175	175	175	175	175	175	175
	B	mm	1385	1385	1615	1615	1715	1715	2020
	C	mm	235	235	235	235	235	235	235
	D	mm	75 60	45	75 60	45	75 60	45	75 60
	E	mm	65 60	45	65 60	45	65 60	45	65 60
	F	mm	70 90	39	70 90	39	70 90	39	70 90
	G	mm	70 90	105	70 90	105	70 90	105	70 90
	H	mm	574	574	574	574	574	574	574
	I	mm	150	150	150	150	150	150	150
	J	mm	75	102	75	102	75	102	75
K	mm	75	102	75	102	75	102	75	
Mounting	D1	mm	14	14	14	14	14	14	14
	P	mm	380	380	380	380	380	380	380
	L	mm	440	440	440	440	440	440	440
	W	mm	50	50	50	50	50	50	50
	M	mm	1065	1065	1295	1295	1395	1395	1700
	H1	mm	100	100	100	100	100	100	100
Connection	N1	-	RC 42 35	RC 35	RC 42 35	RC 35	RC 42 35	RC 35	RC 42 35
	N2	-	PC 80 BC 54	BC 54	PC 80 BC 54	BC 54	PC 80 BC 54	BC 54	PC 80 BC 54
	N3	-	FC 150	FC 150	FC 150	FC 150	FC 150	FC 150	FC 150
	N4	-	FC 150	FC 150	FC 150	FC 150	FC 150	FC 150	FC 150
	N5 / N6	Inch	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	N7	Inch	1	1	1	1	1	1	1
	Volumes	V-Ref.	dm3	47.6	44.2	54.1	50.2	57	52.8
V-H2O		dm3	82.9	86.3	94	97.8	98.7	102.8	113.1
Weight	W	Kg	290	270	303	282	320	293	342

N1 Refrigerant Inlet
 N2 Refrigerant Outlet
 N3 Water Inlet
 N4 Water Outlet

N5 Service Socket
 N6 Service Socket
 N7 Water Drain Port

OD Outer Diameter
 OL Overall Length
 V-Ref Refrigerant Volume
 V-H2O Water Volume

Shell & Tube Evaporator



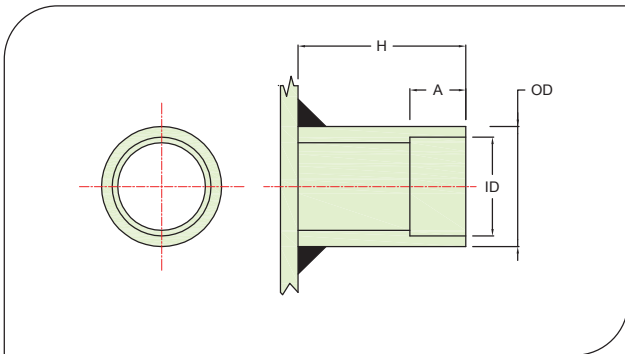
MODEL			BCH 505Q	BCH 570D BCH 570T	BCH 570Q	BCH 630D	BCH 660D	BCH 770D	BCH 915D
DETAILS	SIGN	UNIT							
Dimension	OD	mm	324	324	324	356	406	406	406
	OL	mm	2425	2525	2525	2750	2230	2430	2580
	A	mm	175	175	175	175	180	180	180
	B	mm	2020	2120	2120	2350	1805	2005	2155
	C	mm	235	235	235	235	235	235	235
	D	mm	45	75 60	45	75	90	90	90
	E	mm	45	65 60	45	75	90	90	90
	F	mm	39	70 90	39	75	85	85	85
	G	mm	105	70 90	105	75	85	85	85
	H	mm	574	574	574	606	706	706	706
	I	mm	150	150	150	150	150	150	150
	J	mm	102	75	102	-	-	-	-
K	mm	102	75	102	-	-	-	-	
Mounting	D1	mm	14	14	14	14	18	18	18
	P	mm	380	380	380	420	480	480	480
	L	mm	440	440	440	470	585	585	585
	W	mm	50	50	50	50	75	75	75
	M	mm	1700	1800	1800	2030	1485	1685	1835
	H1	mm	100	100	100	100	150	150	150
Connection	N1	-	RC 35	RC 42 35	RC 35	BC 54	BC 54	BC 54	BC 54
	N2	-	BC 54	PC 80 BC 54	BC 54	PC 100	PC 100	PC 100	PC 100
	N3	-	FC 150	FC 150	FC 150	FC 150	FC 150	FC 150	FC 150
	N4	-	FC 150	FC 150	FC 150	FC 150	FC 150	FC 150	FC 150
	N5 / N6	Inch	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	N7	Inch	1	1	1	1	1	1	1
	Volumes	V-Ref.	dm3	60.7	68.4	63.4	88.1	100	109.6
V-H2O	dm3	117.8	117.9	122.9	145.7	155.4	162.9	173.6	
Weight	W	Kg	327	365	335	410	490	512	525

N1 Refrigerant Inlet
 N2 Refrigerant Outlet
 N3 Water Inlet
 N4 Water Outlet

N5 Service Socket
 N6 Service Socket
 N7 Water Drain Port

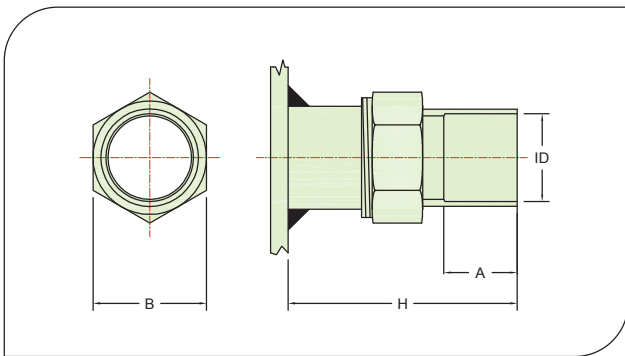
OD Outer Diameter
 OL Overall Length
 V-Ref Refrigerant Volume
 V-H2O Water Volume

Bush Connection (BC)



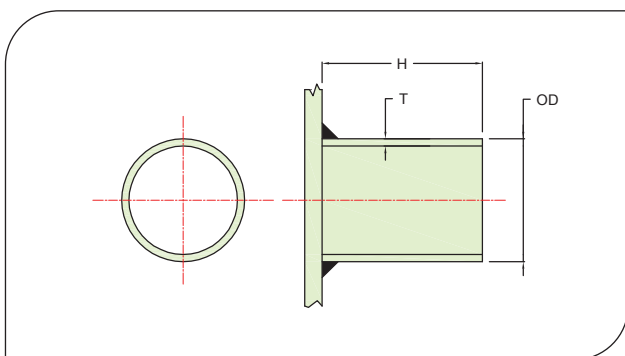
Type	OD [mm]	ID [mm]	A [mm]	H [mm]
BC 16	21.8	16.2	15	60
BC 22	27.3	22.5	15	60
BC 28	34.2	28.9	20	60
BC 35	42.9	35.3	20	60
BC 42	48.8	41.7	30	80
BC 54	60.8	54	30	80
BC 67	76.6	67	40	100

Rotolock Connection (RC)



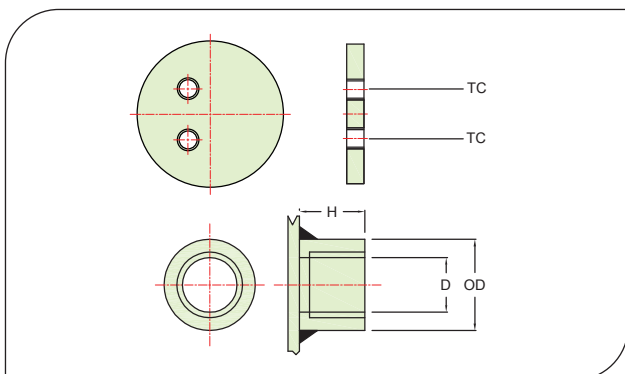
Type	Thread	ODS [Inch]	ID [mm]	A [mm]	B [mm]	H [mm]
RC 13	1" - UNS	1/2	13	16	30	55
RC 16	1" - UNS	5/8	16.2	16	30	55
RC 19	1-1/4" - UNF	3/4	19.3	22	36	70
RC 22	1-1/4" - UNF	7/8	22.5	22	36	70
RC 28	1-3/4" - UN	1-1/8	28.9	22	50	85
RC 35	1-3/4" - UN	1-3/8	35.3	35	50	90
RC 42	2-1/4" - UN	1-5/8	41.7	35	62	100

Pipe Connection (PC)



Type	OD [Inch]	T [mm]	H [mm]
PC 50	60.8	4.5	100
PC 65	76.6	4.5	100
PC 80	89.9	4.85	100
PC 100	115	5.4	100
PC 125	140.8	5.4	100
PC 150	166.5	5.4	100

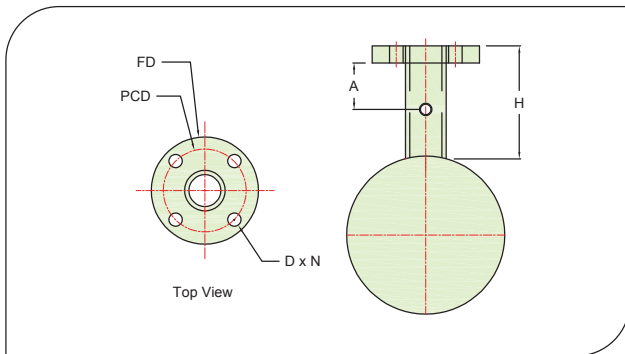
Threaded Connection (TC) / NPT Coupling Connection (NC)



Type	Thread	D [Inch]
TC 25	BSP	1
TC 40	BSP	1.5
TC 50	BSP	2
TC 65	BSP	2.5
TC 80	BSP	3

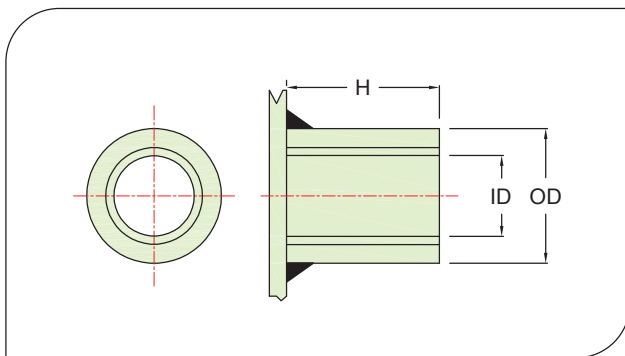
Type	D [Inch]	OD [mm]	H [mm]
NC 14	1/4	20	21
NC 38	3/8	25	21
NC 12	1/2	30	25
NC 01	1	35	30

Flange Connection (FC)



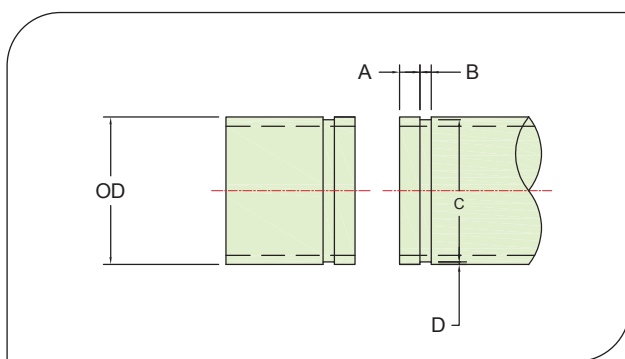
Type ASA 150	DN [Inch]	H [mm]	A [mm]	FD [mm]	PCD [mm]	D [mm]	N [Nos.]
FC 40	1.5	130	55	127	98	16	4
FC 50	2	130	55	152	120	19	4
FC 65	2.5	130	55	178	140	19	4
FC 80	3	150	65	190	152	19	4
FC 100	4	150	65	228	190	19	8
FC 150	6	150	65	279	241	22	8

BSP Coupling Connection (CC)



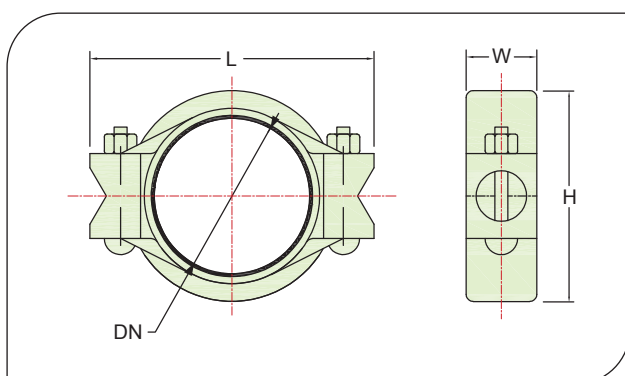
Type	D [mm]	H [mm]
CC 40	55	55
CC 50	70	65
CC 65	85	70
CC 80	100	75
CC 100	125	90

Victaulic Pipe Connection (VPC)



Type	DN [Inch]	OD [mm]	A [mm]	B [mm]	C [mm]	D [mm]
VPC 40	1.5	48.3	15.88	7.14	45.09	1.6
VPC 50	2	60.3	15.88	8.74	57.15	1.6
VPC 65	2.5	73	15.88	8.74	69.09	1.98
VPC 80	3	88.9	15.88	8.74	84.94	1.98
VPC 100	4	114.3	15.88	8.74	110.08	2.11
VPC 125	5	141.3	15.88	8.74	137.03	2.13
VPC 150	6	168.3	15.88	8.74	163.96	2.16

Victaulic Coupling Connection (VC)*



Type	DN [Inch]	L [mm]	H [mm]	W [mm]
VC 40	1.5	112	70	44
VC 50	2	124	82	44
VC 65	2.5	148	96	44
VC 80	3	166	113	44
VC 100	4	193	140	48
VC 125	5	222	167	50
VC 150	6	252	196	44

* Will be provided on special request at additional cost.

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