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CONDENSING POTS
AIR FEED HEADERS
& SIPHONS

I.T.E.
INDUSTRIAL TECHNICAL EQUIPMENT

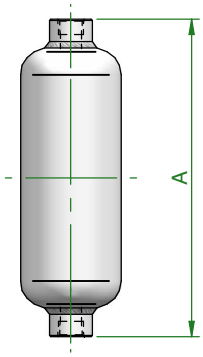
CONTENTS

CONDENSING AND SEAL POT

It is designed and employed to trap any foreign material from the pipeline preventing damages to instrumentation components (it's largerly used in steam metering line to cool down steam and or liquids). Condensate Pots are designed in accordance with ASME DIV 1 and produced in ASME coded workshop. **They are realised from pipe, with hot forging caps without any circumferential welds.** Installation can be either vertical or horizontal according to customer's request and specification. Typical industry/application: Oil and Gas, Chemical, Petrochemical, Power Plants, Refineries and other process industries.

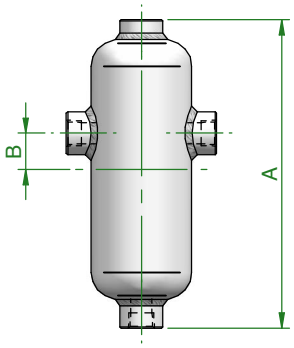
MODEL TYPE

SP2



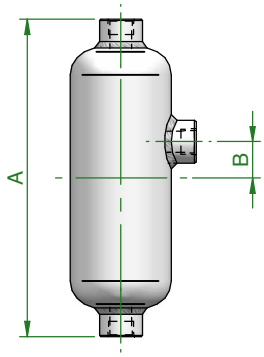
No. 2 connections

SP3



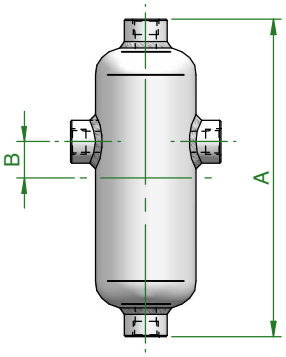
No. 3 connections

SP3A



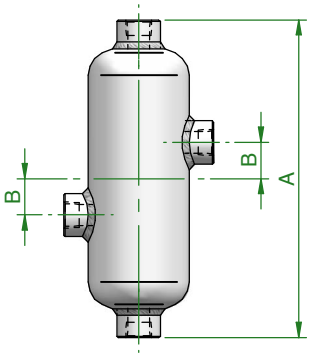
No. 3 connections

SP4A



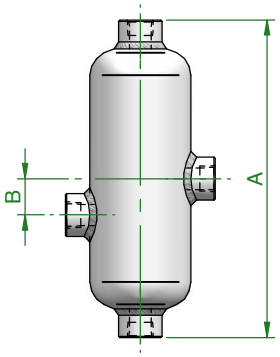
No. 4 connections

SP4B



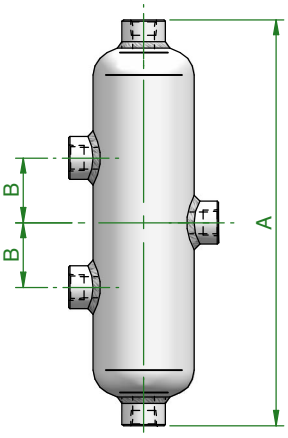
No. 4 connections

SP4C



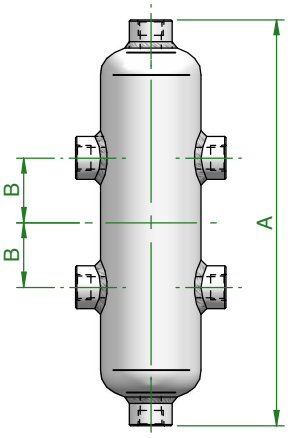
No. 4 connections

SP5



No. 5 connections

SP6



No. 6 connections

CONDENSING AND SEAL POT

STANDARD FEATURES

CE marked aacording to PED 97/23/EC (on request, prior to technical evaluation).

Available size: 2";3";4" .

Different Schedule Available: 40;80;160; XXS (High/Low Pressure Rating options).

Material Carbon Steel A106 Grade-B, Stainless Steel, Alloy for High Temperature Service (P11, P22, P91, P92); Special Material on request.

Connection Type: NPT-F; SW; BW; FLG.

Reccomended when the flowing temperature is above 150°C.

DIMENSION

DIMENSION		SP2		SP3		SP4A		SP4B		SP4C		SP5		SP6	
DN	Pipe Schedule	A	B	A	B	A	B	A	B	A	B	A	B	A	B
3"	Sch.40	280	-	280	32	280	32	280	32	280	32	355	57	355	57
	Sch.80														
	Sch.160														
	Sch.XXS														
4"	Sch.40	355		355	57	355	57	355	57	355	57				
	Sch.80														
	Sch.160														
	Sch.XXS														

"A"/"B" DIMENSIONS ARE IN MM

MATERIAL / PRESSURE

	SCH.40		SCH.80		SCH.160		SCH.XXS	
MATERIAL	Bar	PSI	Bar	PSI	Bar	PSI	Bar	PSI
A 106 Gr.B	80	1150	125	1800	210	3000	290	4200
AISI 316	95	1350	150	2200	240	3500	-	-
A335 P11	-	-	125	1800	210	3000	290	4200

CONDENSING AND SEAL POT- HOW TO ORDER

	S	P	2	-	S	C	B	8	N	F

MODEL

SP	CONDENSING AND SEAL POT

TAKE

2	2 CONN.	4B	4 CONN.
3	3 CONN.	4C	4 CONN.
3A	3 CONN.	5	5 CONN.
4A	4 CONN.	6	6 CONN.

MATERIAL

S	Aisi 316L	D	F51 - DUPLEX
M	Aisi 316 Ti	E	F55 - SUPERDUPLEX
B	ASTM A106 Gr.B	U	P11
P	ASTM A106 Gr.C	V	P22
F	Alloy 400	Q	P91

PIPE DIMENSION

A	1"	E	2"-1/2
B	1"-1/4	F	3"
C	1"-1/2	G	4"
D	2"		

PIPE SCHEDULE

A	40
B	80
C	160
D	XXS

TAKE DIMENSION

2	1/8"	8	1/2"
4	1/4"	12	3/4"
6	3/8"	16	1"

TAKE TYPE

N	NPT
SW	SOCKET WELD
BW	BUTT WELD
E	PLANE END

TAKE TYPE

M	MALE
F	FEMALE

Attention - Above guideline shows all possible product configuration. Tailor-made solutions must be evaluated and approved by ITE technical dept before accepting and processing your

AIR FEED HEADER BDA

It is designed to distribute air, gas, nitrogen or any kind of fluid from compressor to actuators on pneumatic instruments (pressure controllers, steam flow meters, valves positioners). The air distribution manifolds are designed to be used with air and can be supplied with a series of ball valves lockable on opposite sides, right side or left side only to prevent unauthorized access. Typical industry/application: Oil and Gas, Chemical, Petrochemical, Power Plants, Refineries and other process industries.

FEATURES

SIZE from 1.1/2" up to 3".

Welded body construction.

Flanged and threaded inlet options.

Four support feet welded for wall mounting.

NACE MR.0175/MR.0103 material on request.

Certificate 3.1 according to EN 10 204 on request.

STANDARD CONFIGURATION

End connections: NPT; BSPP; BSPT; FLANGED.

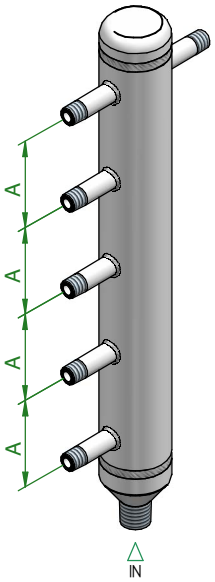
Pipe schedule 40 & 80.

Outlets interaxis std.: 70mm & 100mm.

Several different connection with different n° of outlets and outlets interaxis (special execution available upon analysis by ITE Technical Dept.)

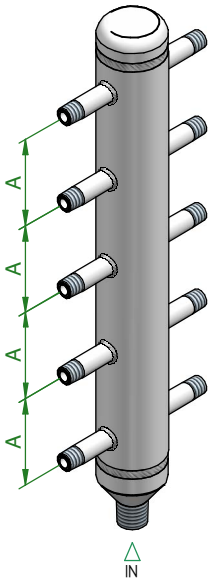
BDA - DESIGN

BDA 5+1 - IN LINE



A = 70 / 100 mm

BDA 5+5 - OVERLAPPING



A = 70 / 100 mm

TECHNICAL SPECIFICATIONS

This type of air feed headers may be eployed for centralizing several connections in air distribution networks, with de possibility of condense drain.

Inlet conn.: 1/2" - 3/4" -1" NPT Male
Outlet conn.: 1/4" NPT Male

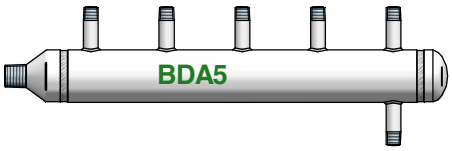
Center to center out connetcion: 70/100 mm

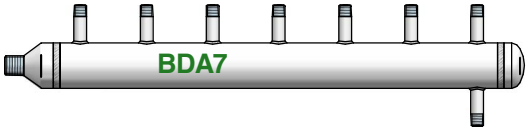
Out connection on "IN LINE" version up to 12+1
Out connection on "OVELAPPING" version up to 24

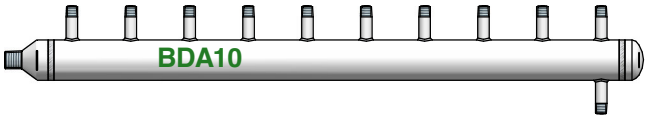
Standard pipe dimension are 1"-1/2 sch.40

AIR FEED HEADERS BDA - EXAMPLE

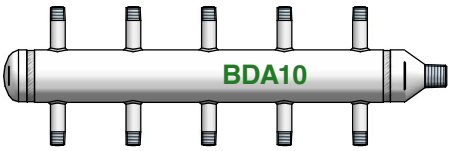
IN LINE

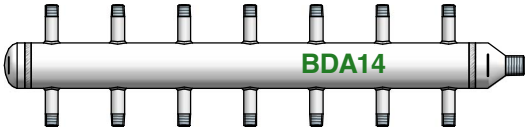


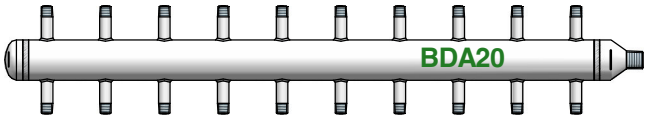




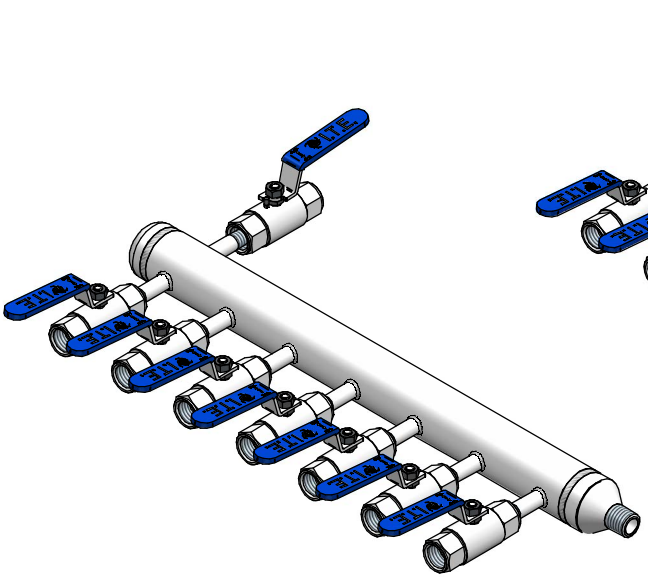
OVERLAPPING

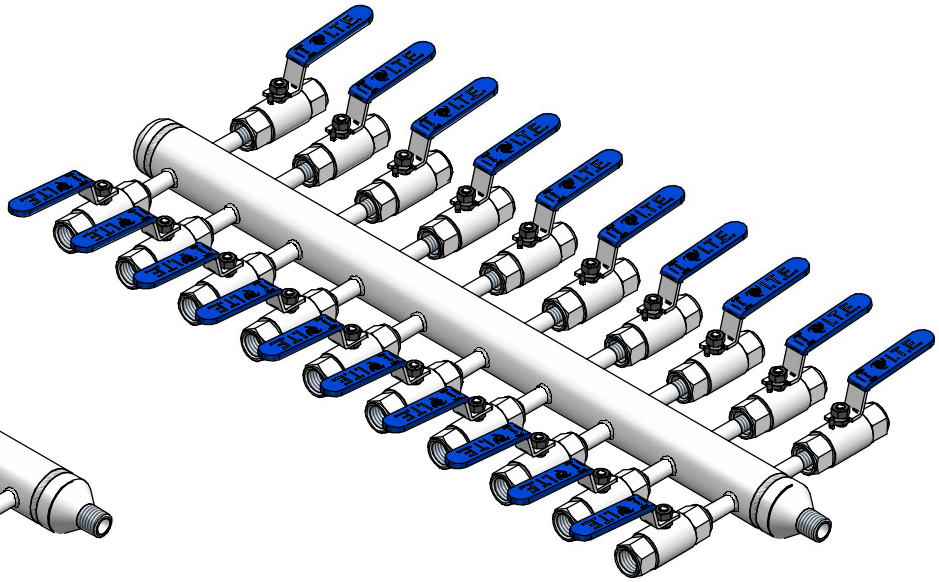






AIR FEED HEADERS WITH BALL VALVE





AIR FEED HEADERS BDA - HOW TO ORDER

B	D	A	1	0	L	S	B	B	1	2	N	4	N	A	4	N	L

MODEL

BDA	AIR FEED HEADER

TAKE

5	5 CONN.	12	12 CONN.
6	6 CONN.	14	5 CONN.
7	7 CONN.	16	6 CONN.
8	8 CONN.	18	7 CONN.
9	9 CONN.	20	8 CONN.
10	10 CONN.	22	9 CONN.
11	11 CONN.	24	10 CONN.

TAKE POSITION

L	IN LINE
S	OVERLAPPING

MATERIAL

S	Aisi 316L	D	F51 - DUPLEX
M	Aisi 316 Ti	E	F55 - SUPERDUPLEX
B	ASTM A106 Gr.B	U	P11
P	ASTM A106 Gr.C	V	P22
F	Alloy 400	Q	P91

PIPE DIMENSION

	1"
B	1"-1/4
C	1"-1/2
D	2"

PIPE SCHEDULE

A	40
B	80
C	160
D	XXS

IN DIMENSION

2	1/8"	8	1/2"
4	1/4"	12	3/4"
6	3/8"	16	1"

IN TYPE

N	NPT MALE	F	NPT-F
K	GAS ISO7 MALE (R)	P	GAS ISO7 FEMALE (Rc)
R	GAS ISO 228 MALE	Z	GAS ISO7 FEMALE (Rp)
E	PLANE END		

TAKE DIMENSION

2	1/8"	8	1/2"
4	1/4"		
6	3/8"		

TAKE TYPE

N	NPT MALE	F	NPT-F
K	GAS ISO7 MALE (R)	P	GAS ISO7 FEMALE (Rc)
R	GAS ISO 228 MALE	Z	GAS ISO7 FEMALE (Rp)
E	PLANE END		

TAKE DISTANCE

A	70 mm
B	100 mm

DRAIN DIMENSION

2	1/8"	8	1/2"
4	1/4"		
6	3/8"		

DRAIN TYPE

N	NPT MALE	F	NPT-F
K	GAS ISO7 MALE (R)	P	GAS ISO7 FEMALE (Rc)
R	GAS ISO 228 MALE	Z	GAS ISO7 FEMALE (Rp)
E	PLANE END		

DRAIN POSITION

L	SIDE
B	BOTTOM

Attention - Above guideline shows all possible product configuration. Tailor-made solutions must be evaluated and approved by ITE technical dept before accepting and processing your order

AIR FEED HEADER BDE

It's a compact design which utilises needle valves (up to 12 valves maximum), maximum operating pressure 10.000 PSI. It's recommended where space saving is needed. Standard configuration: stainless steel material and NPT connection. Applications/Sectors: Air & Steam, O&G, Petrochemical, Chemical. *We are showing on this page just the standard types.*

FEATURES

SIZE 1.1/2" sch.80 as std. (on request sch.40)

Welded body construction.

Threaded inlet/outlets. Outlets are plugged.

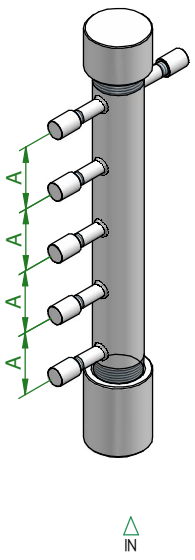
Four support feet welded for wall mounting.

NACE MR.0175/MR.0103 material on request.

Acc.to SNAM/ENI codes MAT. 023

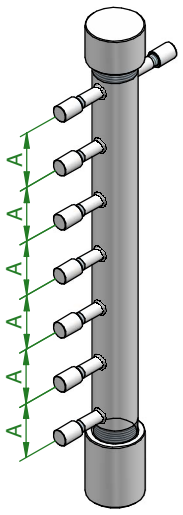
BDE - MODEL

BDE 5 - IN LINE



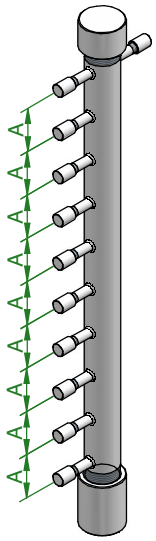
A = 70 / 100 mm

BDE 7 - IN LINE



A = 70 / 100 mm

BDE 10 - IN LINE

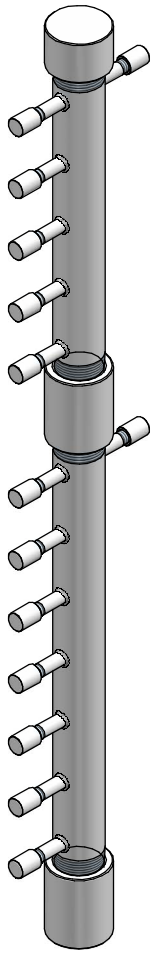


A = 70 / 100 mm

BDE COMBINE EXAMPLE

This special air feed headers offer to engineer, when many outlets is required, the possibility of combine the air feed until to obtain the number of outlets requested.

BDE 7 + BDE 5



AIR FEED HEADERS BDE - HOW TO ORDER

B	D	E	1	0	L	S	C	B	2	4	N	4	N	A	4	N	L

MODEL

BDE	AIR FEED HEADER

TAKE

5	5 CONN.
7	7 CONN.
10	10 CONN.

TAKE POSITION

L	IN LINE

MATERIAL

S	Aisi 316L	D	F51 - DUPLEX
M	Aisi 316 Ti	E	F55 - SUPERDUPLEX
B	ASTM A106 Gr.B	U	P11
P	ASTM A106 Gr.C	V	P22
F	Alloy 400	Q	P91

PIPE DIMENSION

C	1"-1/2

PIPE SCHEDULE

A	40
B	80
C	160
D	XXS

IN/OUT

24	1"-1/2

IN/OUT TYPE

N	NPT MALE
F	NPT-F

TAKE DIMENSION

2	1/8"	8	1/2"
4	1/4"		
6	3/8"		

TAKE TYPE

N	NPT MALE	F	NPT-F
K	GAS ISO7 MALE (R)	P	GAS ISO7 FEMALE (Rc)
R	GAS ISO 228 MALE	Z	GAS ISO7 FEMALE (Rp)
E	PLANE END		

TAKE DISTANCE

A	70 mm
B	100 mm

DRAIN DIMENSION

2	1/8"	8	1/2"
4	1/4"		
6	3/8"		

DRAIN TYPE

N	NPT MALE	F	NPT-F
K	GAS ISO7 MALE (R)	P	GAS ISO7 FEMALE (Rc)
R	GAS ISO 228 MALE	Z	GAS ISO7 FEMALE (Rp)
E	PLANE END		

DRAIN POSITION

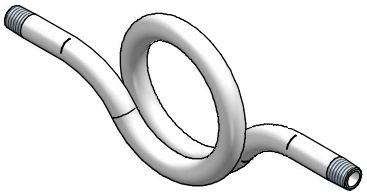
L	SIDE
B	BOTTOM

Attention - Above guideline shows all possible product configuration. Tailor-made solutions must be evaluated and approved by ITE technical dept before accepting and processing your order

SIPHONS "S"

Coiled pipe siphons are used between pressure gauge and pressure traps to prevent a direct contact between steam and the instruments. It's realized in different shapes in order to satisfy customer's requirements according to specific field/plant design. W*e are showing on this page just the standard types.*

1



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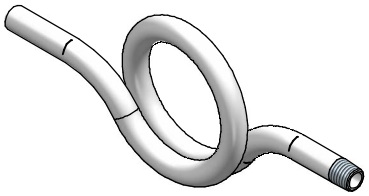

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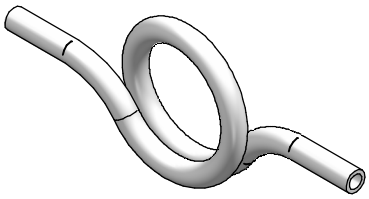

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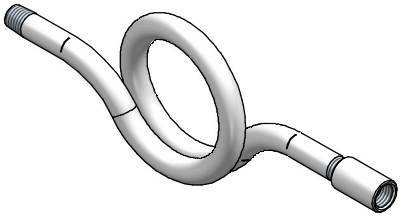

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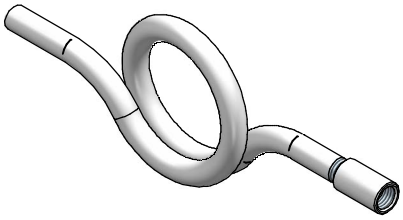
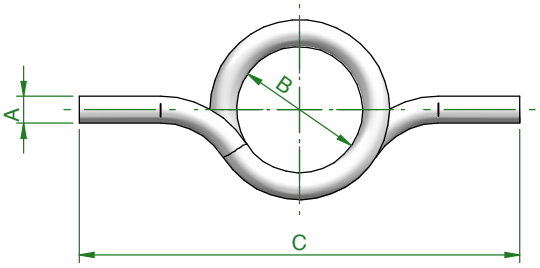


COIL SIPHONS "S"



DIMENSIONS

MODEL	A	B	C
S0	1/2" SCH.80	56	250
	1/2" SCH.160		
	1/2" SCH.XXS		
S1	1/2" SCH.80	100	350
	1/2" SCH.160		
	1/2" SCH.XXS		

CONNECTIONS

MODEL	IN/OUT
1	1/2" THREAD x 1/2" THREAD
2	PLANE END x 1/2" THREAD
3	PLANE END x PLANE END
4	1/2" THREAD x 1/2" THREAD*
5	PLANE END x 1/2" THREAD*

*SWIVEL ADAPTER

MATERIAL

MODEL	IN/OUT
A106 Gr.B	A333 Gr.6
A335 P11	AISI 316L
A335 P22	AISI 304

COIL SIPHONS "S" - HOW TO ORDER

	S	0	1	-	B	0	8	0	8	N

MODEL

S0	SIPHON "S" D.56
S1	SIPHON "S" D.100

CONNECTION

1	1/2" THREAD X 1/2" THREAD
2	PLANE END X 1/2" THREAD
3	PLANE END X PLANE END
4	1/2" THREAD X 1/2" THREAD (SWIVEL OUT)
5	PLANE END X 1/2" THREAD (SWIVEL OUT)

MATERIAL

S	Aisi 316L	U	P11
B	ASTM A106 Gr.B	V	P22
P	ASTM A106 Gr.C	Q	P91

PIPE SCHEDULE

080	80
160	160
XXS	XXS

TAKE DIMENSION

8	1/2"

TAKE TYPE

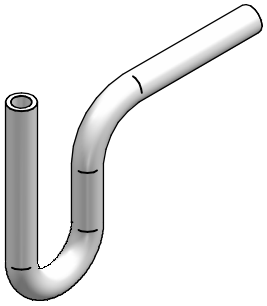
N	NPT MALE
K	GAS ISO7 MALE (R)
R	GAS ISO 228 MALE
E	PLANE END

Attention - Above guideline show s all possible product configuration. Tailor-made solutions must be evaluated and approved by ITE technical dept before accepting and processing your

SIPHONS "US"

Coiled pipe siphons are used between pressure gauge and pressure traps to prevent a direct contact between steam and the instruments. It's realized in different shapes in order to satisfy customer's requirements according to specific field/plant design. W*e are showing on this page just the standard types.*

1



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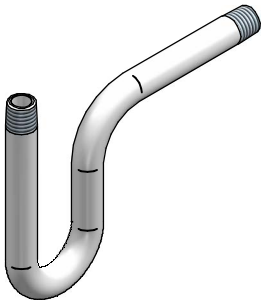

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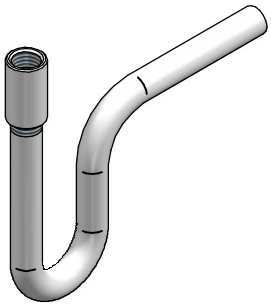
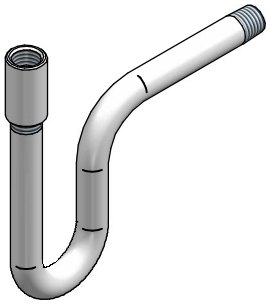
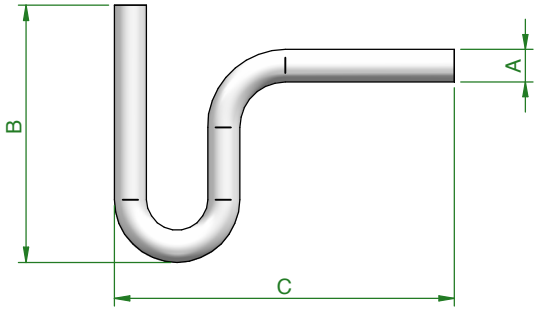


4



COIL SIPHONS "US"



DIMENSIONS			
MODEL	A	B	C
US	1/2" SCH.80	170	225
	1/2" SCH.160		
	1/2" SCH.XXS		

CONNECTIONS	
MODEL	IN/OUT
1	PLANE END x PLANE END
2	1/2" THREAD x 1/2" THREAD
3	PLANE END x 1/2" THREAD*
4	1/2" THREAD x 1/2" THREAD*

*SWIVEL ADAPTER

MATERIAL	
MODEL	IN/OUT
A106 Gr.B	A333 Gr.6
A335 P11	AISI 316L
A335 P22	AISI 304

COIL SIPHONS "US" - HOW TO ORDER

	S	0	1	-	B	0	8	0	8	N

MODEL

US	SIPHON "U"

CONNECTION

1	PLANE END X PLANE END
2	1/2" THREAD X 1/2" THREAD
3	PLANE END X 1/2" THREAD (SWIVEL OUT)
4	1/2" THREAD X 1/2" THREAD (SWIVEL OUT)

MATERIAL

S	Aisi 316L	U	P11
B	ASTM A106 Gr.B	V	P22
P	ASTM A106 Gr.C	Q	P91

PIPE SCHEDULE

080	80
160	160
XXS	XXS

TAKE DIMENSION

8	1/2"

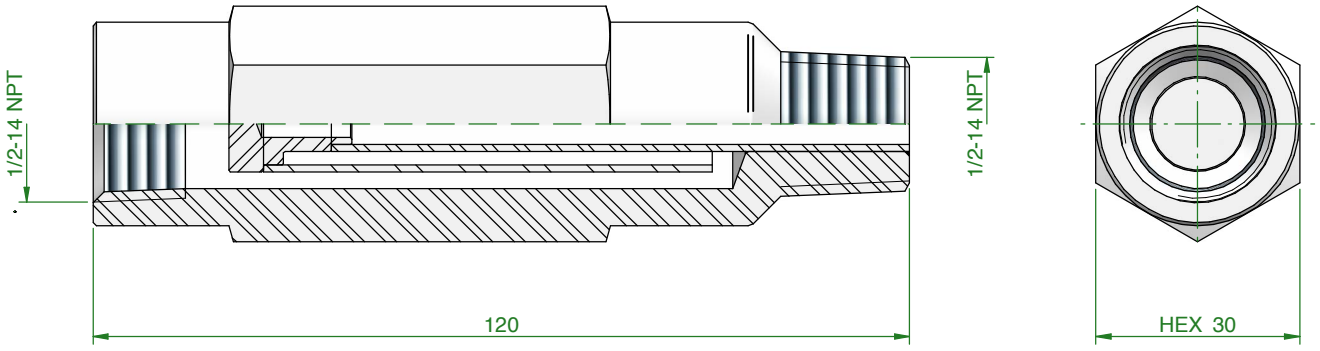
TAKE TYPE

N	NPT MALE
K	GAS ISO7 MALE (R)
R	GAS ISO 228 MALE
E	PLANE END

Attention - Above guideline show s all possible product configuration. Tailor-made solutions must be evaluated and approved by ITE technical dept before accepting and processing your

SIPHONS "GS"

Bar stock siphons are used between pressure gauge and pressure traps to prevent a direct contact between steam and the instruments. It's realized in different shapes in order to satisfy customer's requirements according to specific field/plant design. W*e are showing on this page just the standard types.*



HOW TO ORDER

	G	S	-	I	-	S	-	8	N

MODEL

GS-I BAR STOCK SIPHON GS

MATERIAL

S	Aisi 316L	U	P11
B	ASTM A106 Gr.B	V	P22
P	ASTM A106 Gr.C	Q	P91

TAKE DIMENSION

8 1/2" NPT

TAKE TYPE

N NPT

K GAS ISO7 MALE (R)

Attention - Above guideline shows all possible product configuration. Tailor-made solutions must be evaluated and approved by ITE technical dept before accepting and