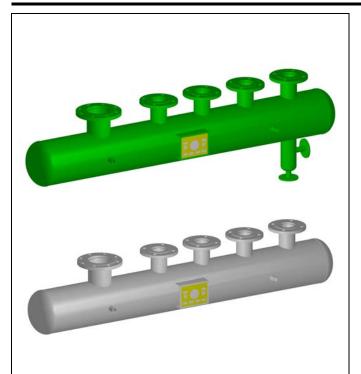
MANIFOLDS UNIT CDVS Series GREEN line

CD/E 03 2018



Series CDVS

DESCRIPTION

The CDVS Series distribution manifolds are used in thermal power stations for the distribution of fluids and vapors to the lines of use and for the connection of the lines coming from the return pumps.

They are designed with calculation code EN 13445 Part III and PED compliant 2014/68/UE with different design pressures.

They are built with the following materials: RAL 6010 painted carbon steel AISI 304 stainless steel AISI 316 stainless steel

EN 1092-1 form "A" or ANSI B16.5 150 RF - 300 RF can be flanged with Rp ISO 7 (G.F.) or NPT service sleeves.

The CDV steam version is designed with the condensate collection well, while the CDS fluid versions are designed without a well.

Threaded and flanged connections according to design pressure

Lengths and positioning of configurable connections.

DESIGN P	DESIGN PRESSURES												
PIPES form D	PIPES form DN 50 to DN 500												
Fluids Group 2 Table 9 Water and Liquidsi	Fluids Goup 2 Table 7 Steam / Superheated water and Gas												
12 bar @ 110 °C 4/3 SEP DN 50 – DN 400	12 bar @ 191.7 °C 4/3 SEP DN 50 – DN 80												
12 bar @ 110 °C CAT. I° Module A DN 450 – DN 500	12 bar @ 191.7 °C CAT. I° Module A DN 100 – DN 250												

VESSE	ELS Ø 219,1 – Ø 273,4 – Ø 323	3,9 – Ø 406,4 – Ø	457,2 – Ø 508
	Fluids Group 2 Table 2 Steam / St Module B	•	nd Gas
12 b	ar @ 191.7 °C	20 1	bar @ 215 °C
II°	from 17 to 83 liters	II°	from 11 to 50 liters
III°	from 84 to 250 liters	III°	from 51 to 150 liters
IV°	> 250 liters	IV°	> 150 liters
	Fluids Group 1 Table	3 Diathermic Oil	

Fluids Group 1 Table 3 Diathermic Oil
Category I Module A

10 bar @ 350 °C

CONNECTIONS on request ANSI B16.5 150 RF - 300 RF and NPT service sleeves.											
Screwed Rp ISO 7 ≤ Ø 2"	Flanged EN 1092-1 PN16 Form "A"	Flanged EN 1092-1 PN 40 Form "A"									

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SIZING

For a quick selection of the diameter use the following formula

D (mm) =
$$\sqrt{\frac{\text{Sum of the surfaces of the outlet pipes (mm}^2) + 50\%}{0.785}}$$

Example:

Square root of

2 output connections DN 50 ($r^2 \times \pi$) + 50% x 2

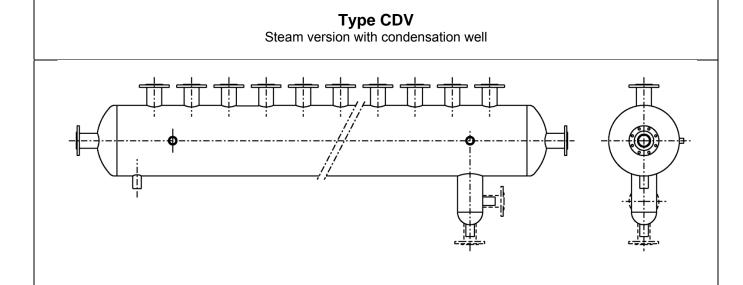
4 output connections DN 65 ($r^2 \times \pi$) + 50% x 2

n ° 1 output connections DN 100 ($r^2 \times \pi$) + 50%

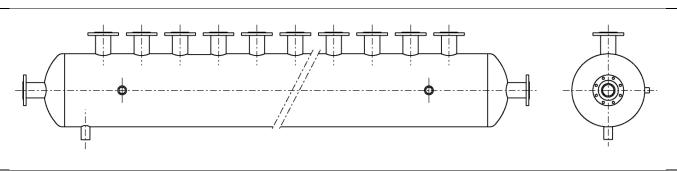
All divided 0.785

D = mm 218 mm so I will choose a diameter of 219 mm

MANUFACTURING CONFIGURATION

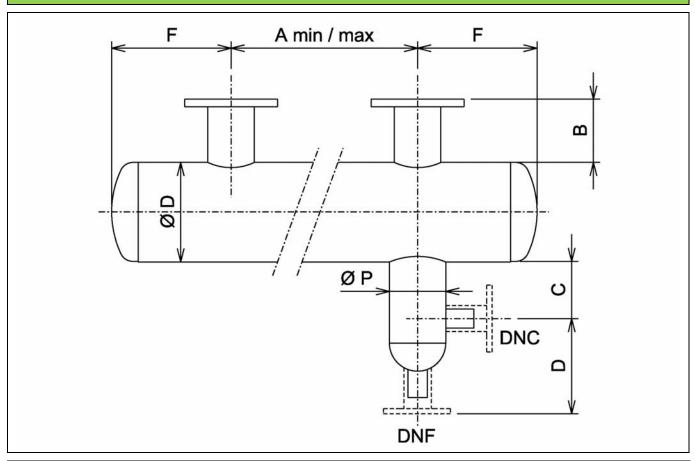


Type CDSVersion for liquids without well



The manifolds can be configured according to the customer's request, can have the number of desired connections with limitation of the connection diameter according to the main diameter (see table)

They can have connections in the upper part, lower and also on the bottoms.



					TII	РО							
CDC	CDB	CDA	CD0	CD1	CD2	CD3	CD4	CD5	CD7	CD8	CD9		
	Ø D												
60,3	76,3	88,9	114,3	139,7	168,3	219,1	273,4	323,9	406,4	457,2	508		
В													
There are 4 nozzle heights that can also be positioned on the bottoms													
160 200 250 300													
F													
160 180 190 200 210 220 242 269 315 345 345 375													
	MAX APPLICABLE NOZZLE												
32	40	50	65	80	100	125	150	200	250	300	350		
					Ø	Р							
42	2,2	48,3	60,3	73,02	88,9	14	1,3	16	8,3	21	9,1		
					(
					20	00							
					I)							
		23	30			236	236	220	220	232	232		
				DNC - D	NF AI TF	RNATIVE	(note 1)						

Noto 1	Smallar	connections	aan alaa	ha mauntad

Ø 1.1/2"

DN 40 PN 40

Ø 1"

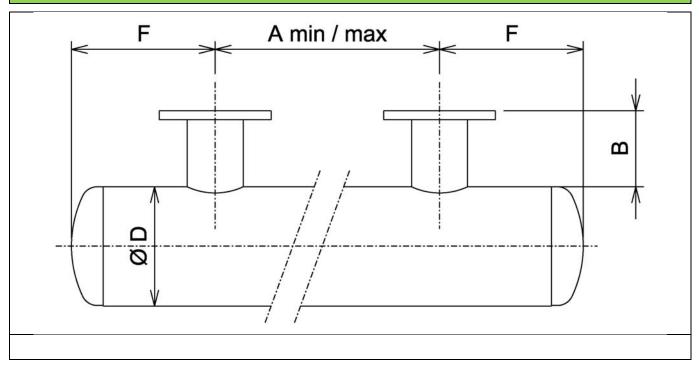
DN 25 PN 16/40

Ø 3/4"

DN 20 PN 16/40

					D	IMENS	IONS A	DIMENSIONS A min (m) e Max (M)													
	15 20 25 32 40 50 65 80 100 125 150 200 250 300 350																				
m	m 175 175 175 220 220 220 290 290 340 410 460 570 670 720 750													750							
M	180	200	200	240	260	300	340	380	430	460	500	620	680	750	780						

CONNECTIONS AND DISTANCES ACCORDING TO DIAMETERS - CDS VERSION without well



	TYPE												
CDC CDB CDA CD0 CD1 CD2 CD3 CD4 CD5 CD7 CD8 CD9													
	Ø D												
60,3	60,3 76,3 88,9 114,3 139,7 168,3 219,1 273,4 323,9 406,4 457,2 508												

	В										
The	There are 4 nozzle heights that can also be positioned on the bottoms										
160 200 250 300											

					ı	F					
160	180	190	200	210	220	242	269	315	345	345	375

	MAX APPLICABLE NOZZLE													
32	40	50	65	80	100	125	150	200	250	300	350			

	DIMENSIONS A min (m) e Max (M)														
	15 20 25 32 40 50 65 80 100 125 150 200 250 300 350														
m	m 175 175 175 220 220 220 290 290 340 410 460 570 670 720 750													750	
M	180	200	200	240	260	300	340	380	430	460	500	620	680	750	780

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.