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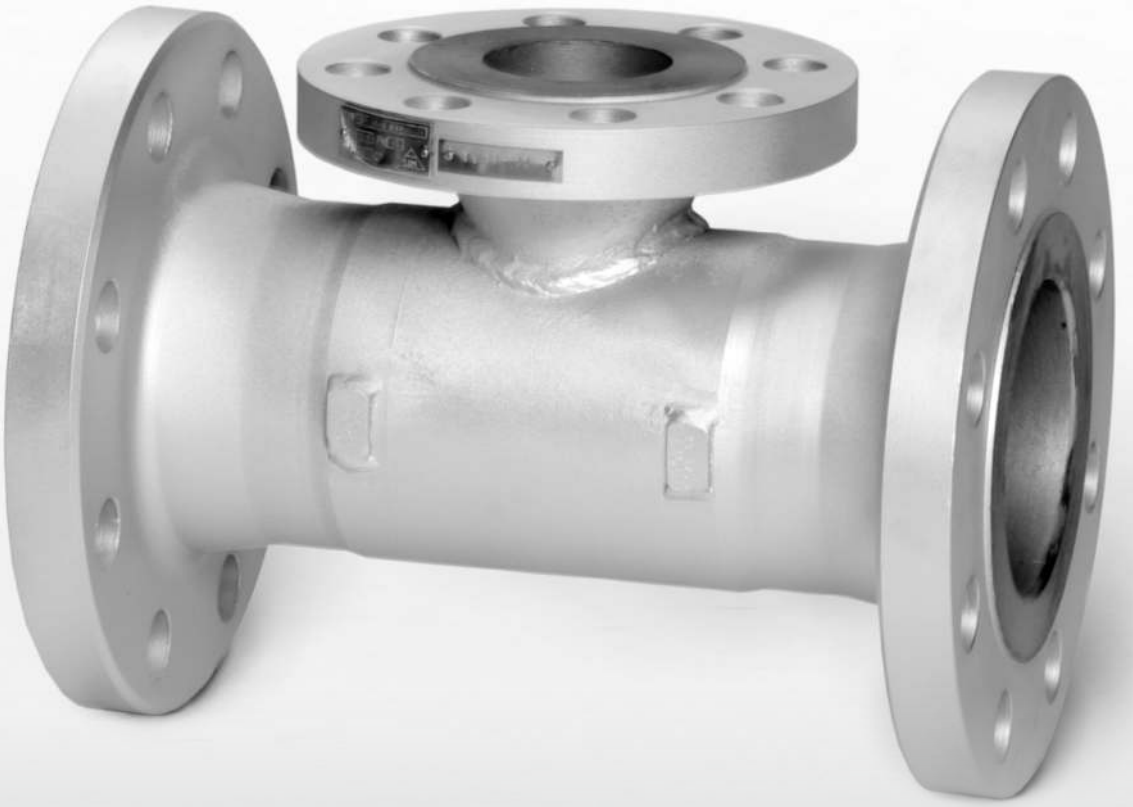
02 - 03.4
03.21.GB

DESUPERHEATER
CHP



POWER THROUGH IDEAS
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CHP

Desuperheater

DN 100 and higher
PN 16 to 400

Description

CHP is a body that is put directly into the steam pipeline and subsequently serves for connection with injection head VH, VHP or VHF (further VHx). According to dimensions of the pipeline and necessary intensity of cooling, the body can be equipped with more inlets for connection of VHx.

CHP is supplied with flanges or with weld ends with connection flange 2 for connection of VHx (max. temperature 350°C) or DN 80 (flange 1 DN 150 and higher) and dimensions according to customers requirements.

Application

CHP serves as an in-between link into the steam pipeline into which it is possible to install injection head VHx. It is designed especially for industrial applications such as low-pressure steam production in heating or the steam production for technological processes.

Process media

Application of CHP for other process media than water, water vapour, should be selected in respect to the kind of process medium that is in touch with the material of CHP and should be consulted with the producer.

Installation

It is necessary to keep free space above connection flange (flange 2) for possible installation of injection head VHx. CHP can be piped horizontally, vertically or inclined.

Technical data

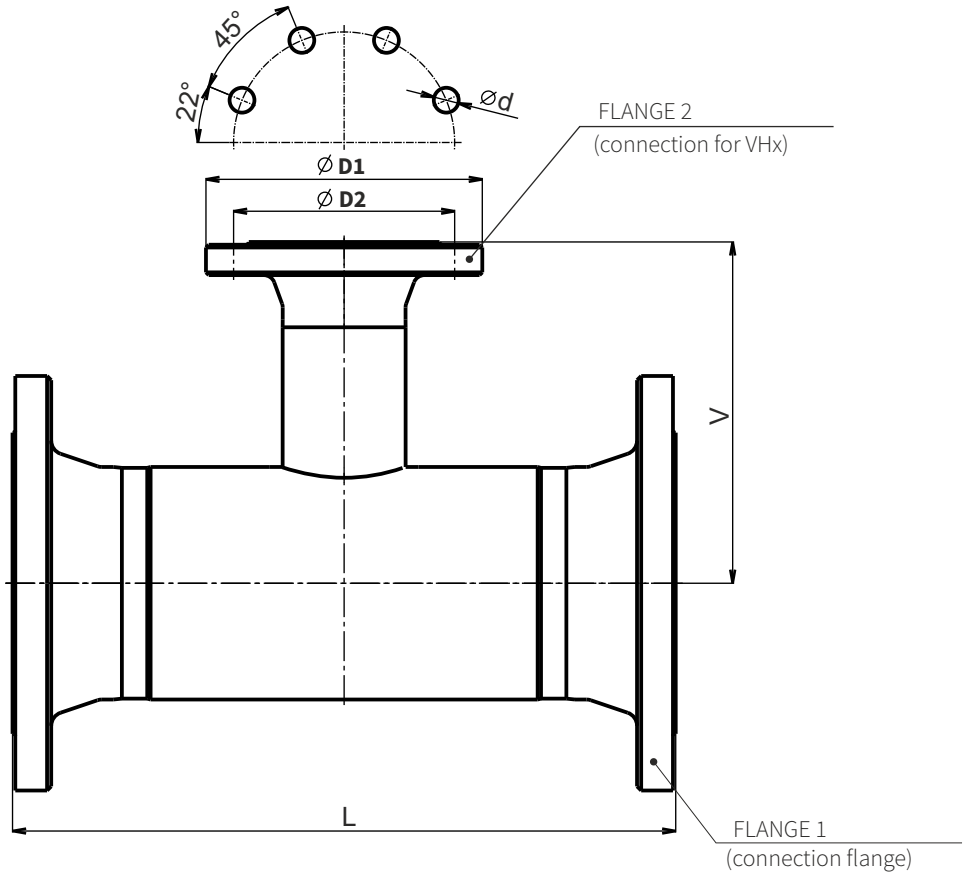
Series	**CHP**	
Execution	**Flanged or weld ends**	
Nominal diameter range	Flange 1: DN 100 and higher; flange 2: DN 50 and DN 80	
Nominal pressure PN	PN 16 to 400	
Body material (flanges / weld ends)	Cast steel 1.0425 (P265GH) / 1.0426 (P280GH)	20 to 480 °C
	Alloy steel 1.7335 (13CrMo4-5)	20 to 550 °C
	Alloy steel 1.7380 (10CrMo9-10) / 1.7383 (11CrMo9-10)	20 to 600 °C
	Stainless steel 1.4922 (X20CrMoV11-1)	20 to 600 °C
Connection dimensions (flange 1 / weld ends)	Acc. to ČSN EN 1092-1 (7/2013) / ČSN EN 12627 (8/2000) *)	
Connection flange 2 dimensions	Acc. to ČSN EN 1092-1 (7/2013)	

*) Dimensions and type of connection (flange / weld connection) acc. to customer requirements. It shall be specified in order.

Connection dimensions

Flange 1			Flange 2													
			PN 100, 160			PN 250			PN 320			PN 400			V	L
PN	DN	DN	D_1 mm	D_2 mm	d mm	D_1 mm	D_2 mm	d mm	D_1 mm	D_2 mm	d mm	D_1 mm	D_2 mm	d mm	mm	mm
16 to 400	min. 100 **)	50	195	145	26	200	150	26	210	160	26	235	180	30	**)	**)
		80 *)	230	180	26	250	200	30	275	220	30	305	240	33		

*) Execution with connection flange 2 DN 80 only with flange 1 DN 150 and higher
**) Dimensions and type of connection (flange / weld connection) acc. to customer requirements. It shall be specified in order



Valve complete specification No. for ordering CHP

			XXX	X	XXX	/	XXX	-	XXX		X
1. Series	Steam cooling unit		**CHP**								
2. No. of inlets	Acc. to intensity of cooling			**X**							
3. Nominal diameter	Flange 1 - steam pipeline				**XXX**						
	Flange 2 - connection VHx	DN 50 (t_{max} = 350 °C)					**050**				
		DN 80 (flange 1 DN 150 and more)					**080**				
4. Nominal pressure	PN								**XXX**		
5. Body material	Cast steel 1.0425 / 1.0426	(20 to 480°C)									**1**
	Alloy steel 1.7335	(20 to 550°C)									**2**
	Alloy steel 1.7380 / 1.7383	(20 to 600°C)									**6**
	Stainless steel 1.4922	(20 to 600°C)									**7**
	Other material										**9**

Order example: Steam cooling unit, steam pipeline flange DN 150, PN 40, connection flange DN 80, PN 100, body material 1.0425 is marked as follows: **CHP1 150/080-040 1**

Max. permissible operating pressures [MPa]

Material	PN	Temperature [°C]											
		100	150	200	250	300	350	400	450	480	500	550	600
Cast steel 1.0425 / 1.0426	16	1.5	1.42	1.34	1.23	1.11	1.04	0.96	0.59	0.36	---	---	---
	25	2.34	2.22	2.10	1.92	1.74	1.62	1.50	0.92	0.56	---	---	---
	40	3.74	3.55	3.36	3.07	2.78	2.59	2.40	1.47	0.90	---	---	---
	63	5.90	5.59	5.29	4.84	4.38	4.08	3.78	2.32	1.41	---	---	---
	100	9.36	8.88	8.40	7.68	6.96	6.48	6.00	3.68	2.24	---	---	---
	160	14.9	14.2	13.4	12.2	11.1	10.3	9.60	5.89	3.59	---	---	---
	250	23.4	22.2	21.0	19.2	17.4	16.2	15.0	9.20	5.60	---	---	---
	320	29.9	28.4	26.8	24.5	22.2	20.7	19.2	11.7	7.17	---	---	---
	400	37.4	35.5	33.6	30.7	27.8	25.9	24.0	14.7	8.96	---	---	---
Alloy steel 1.7335	16	1.6	1.6	1.6	1.6	1.6	1.49	1.37	1.26		1.0	0.47	---
	25	2.5	2.5	2.5	2.5	2.5	2.33	2.13	1.97		1.56	0.73	---
	40	4.0	4.0	4.0	4.0	4.0	3.73	3.41	3.15		2.5	1.17	---
	63	6.3	6.3	6.3	6.3	6.3	5.87	5.38	4.97		3.93	1.85	---
	100	10.0	10.0	10.0	10.0	10.0	9.31	8.53	7.89		6.24	2.93	---
	160	16.0	16.0	16.0	16.0	16.0	14.9	13.6	12.6		9.99	4.70	---
	250	25.0	25.0	25.0	25.0	25.0	23.2	21.3	19.7		15.6	7.34	---
	320	32.0	32.0	32.0	32.0	32.0	29.8	27.3	25.2		19.9	9.39	---
	400	40.0	40.0	40.0	40.0	40.0	37.2	34.1	31.5		24.9	11.7	---
	630	63.0	63.0	63.0	63.0	63.0	58.7	53.8	49.7		39.3	18.5	---
Alloy steel 1.7380 / 1.7383	16	1.6	1.6	1.6	1.6	1.6	1.5	1.37	1.26		1.05	0.56	0.24
	25	2.5	2.5	2.5	2.5	2.5	2.35	2.13	1.97		1.65	0.88	0.37
	40	4.0	4.0	4.0	4.0	4.0	3.75	3.41	3.15		2.63	1.41	0.6
	63	6.3	6.3	6.3	6.3	6.3	5.91	5.38	4.97		4.15	2.22	0.94
	100	10.0	10.0	10.0	10.0	10.0	9.38	8.53	7.89		6.58	3.52	1.49
	160	16.0	16.0	16.0	16.0	16.0	15.0	13.6	12.6		10.5	5.63	2.39
	250	25.0	25.0	25.0	25.0	25.0	23.4	21.3	19.7		16.4	8.80	3.73
	320	32.0	32.0	32.0	32.0	32.0	30.0	27.3	25.2		21.0	11.2	4.78
	400	40.0	40.0	40.0	40.0	40.0	37.5	34.1	31.5		26.3	14.0	5.98
Stainless steel 1.4922	16	1.6	1.6	1.6	1.6	1.6	1.5	1.37	1.26		1.05	0.9	0.42
	25	2.5	2.5	2.5	2.5	2.5	2.35	2.13	1.97		1.65	1.46	0.65
	40	4.0	4.0	4.0	4.0	4.0	3.75	3.41	3.15		2.63	2.33	1.05
	63	6.3	6.3	6.3	6.3	6.3	5.91	5.38	4.97		4.15	3.67	1.65
	100	10.0	10.0	10.0	10.0	10.0	9.38	8.53	7.89		6.58	5.82	2.61
	160	16.0	16.0	16.0	16.0	16.0	15.0	13.6	12.6		10.5	9.32	4.18
	250	25.0	25.0	25.0	25.0	25.0	23.4	21.3	19.7		16.4	14.5	6.54
	320	32.0	32.0	32.0	32.0	32.0	30.0	27.3	25.2		21.0	18.6	8.37
	400	40.0	40.0	40.0	40.0	40.0	37.5	34.1	31.5		26.3	23.3	10.4

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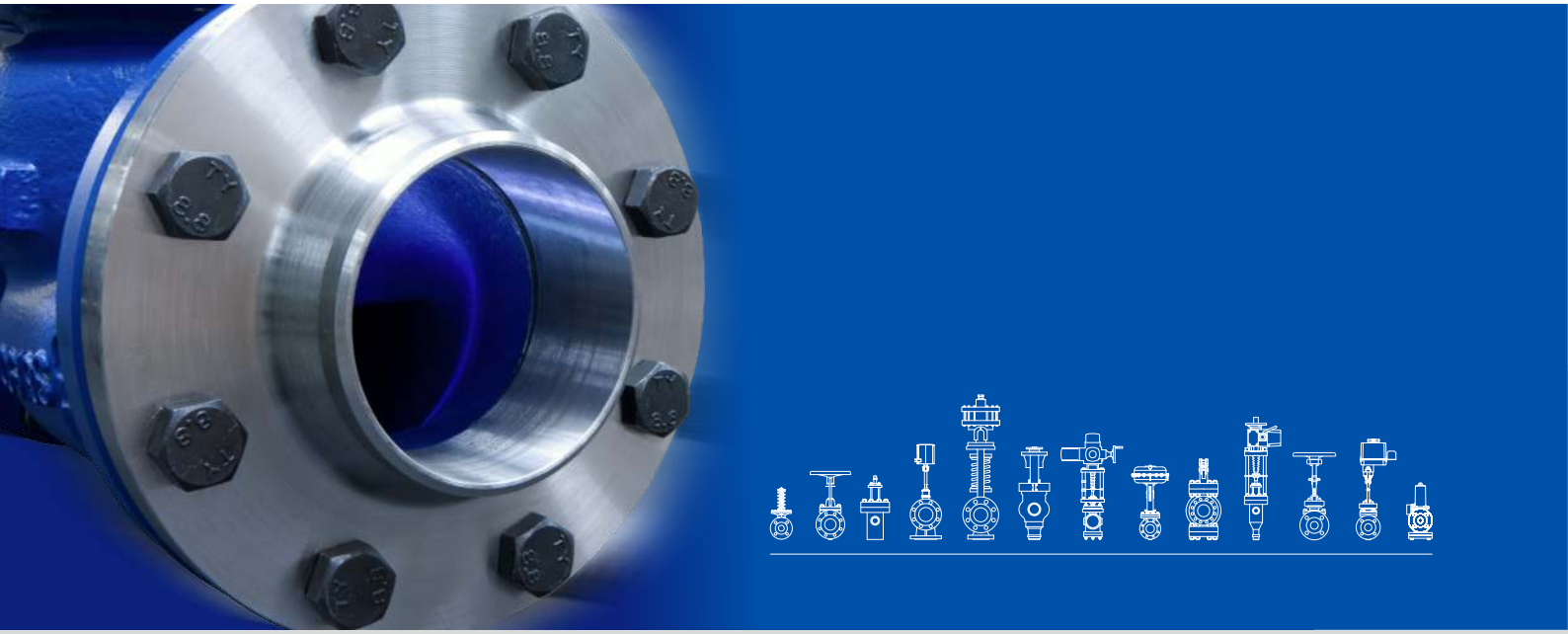

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