

# Micro Motion™ ELITE™ Coriolis Flow and Density Meters



# Detailed specifications

## ELITE flow and density accuracy options

Model	Liquid flow accuracy		Gas flow accuracy	Density accuracy (g/cm <sup>3</sup> )		
	0.10%	0.05%	0.25%	0.002	0.0005	0.0002
CMFS007	•	•	•	•		
CMFS010	•	•	•	•	•	
CMFS015	•	•	•	•	•	
CMFS025	•	•	•		•	•
CMFS040	•	•	•		•	•
CMFS050	•	•	•		•	•
CMFS075	•	•	•		•	•
CMFS100	•	•	•		•	•
CMFS150	•	•	•		•	•
CMF010	•	•	•		•	
CMF025	•	•	•		•	•
CMF050	•	•	•		•	•
CMF100	•	•	•		•	•
CMF200	•	•	•		•	•
CMF300	•	•	•		•	•
CMF350	•	•	•		•	•
CMF400	•	•	•		•	•
CMFHC2	•	•	•		•	•
CMFHC3	•	•	•		•	•
CMFHC4	•	•	•		•	•

**Note**

High temperature models (base model codes A and B, for example, CMF200A) are not capable of enhanced liquid flow calibration of 0.05% or enhanced density accuracy of 0.2 kg/m<sup>3</sup> (0.0002 g/cm<sup>3</sup>).

## Flow tube information

Model	Number of tubes	Tube inside diameter		Tube length	
		inches	mm	inches	mm
CMF010M/H/L	1	0.114	2.90	28.0	711
CMF010P	1	0.100	2.54	28.0	711
CMF025M/H/L	2	0.206	5.23	18.0	458
CMF050M/H/L	2	0.345	8.76	25.0	636
CMF100M/H/L	2	0.647	16.4	38.0	966
CMF200M/H/L/A/B	2	1.06	26.9	50.0	1270
CMF300M/H/L/A/B	2	1.76	44.7	68.0	1730

Model	Number of tubes	Tube inside diameter		Tube length	
		inches	mm	inches	mm
CMF350M/A/P	2	2.26	57.4	55.5	1410
CMF400M/H/P/A/B	2	2.88	73.0	63.7	1620
CMFHC2M/A/Y	2	3.50	88.9	83.6	2120
CMFHC3M/A/Y	2	4.50	114	91.1	2310
CMFHC4M	2	5.63	143	115	2910
CMFS007M	1	0.0710	1.80	27.6	702
CMFS010H/P	2	0.0650	1.65	14.5	369
CMFS010M	2	0.0710	1.80	14.5	369
CMFS015H/P	2	0.100	2.54	14.5	369
CMFS015M	2	0.114	2.90	14.5	369
CMFS025H/P	2	0.190	4.83	21.7	551
CMFS025M	2	0.206	5.23	21.7	551
CMFS040M	2	0.273	6.92	21.7	551
CMFS050H/P	2	0.295	7.49	21.7	551
CMFS050M	2	0.335	8.51	21.7	551
CMFS075M	2	0.444	11.3	29.4	747
CMFS100H/P	2	0.590	15.0	29.4	747
CMFS100M	2	0.618	15.7	29.4	747
CMFS150H/P	2	0.745	18.9	29.4	747
CMFS150M	2	0.777	19.7	29.4	747

**ASME® B16.5 specification flange compatibility**

Model	0.5 in	0.75 in	1 in	1.5 in	2 in	3 in	4 in	6 in	8 in	10 in	12 in	14 in
CMFS007	•	•	•									
CMFS010	•	•	•									
CMFS015	•	•										
CMFS025	•	•	•									
CMFS040	•	•	•									
CMFS050	•	•	•									
CMFS075			•	•	•							
CMFS100			•	•	•							
CMFS150			•	•	•							
CMF010	•	•	•									
CMF025	•	•	•									
CMF050	•	•	•									
CMF100			•	•	•							
CMF200				•	•	•						
CMF300						•	•					

Model	0.5 in	0.75 in	1 in	1.5 in	2 in	3 in	4 in	6 in	8 in	10 in	12 in	14 in
CMF350							.					
CMF400							.	.				
CMFHC2								.	.			
CMFHC3									.	.		
CMFHC4										.	.	.

**DIN specification flange compatibility**

Model	DN15	DN25	DN40	DN50	DN80	DN100	DN150
CMFS007	.						
CMFS010	.						
CMFS015	.						
CMFS025	.						
CMFS040	.						
CMFS050	.						
CMFS075		.	.	.			
CMFS100		.	.	.			
CMFS150		.	.	.			
CMF010	.						
CMF025	.						
CMF050	.						
CMF100		.					
CMF200			.	.			
CMF300					.	.	
CMF350							
CMF400						.	.
CMFHC2							
CMFHC3							
CMFHC4							

**EN1092-1 specification flange compatibility**

Model	DN15	DN25	DN40	DN50	DN80	DN100	DN150	DN200	DN250	DN300	DN350
CMFS007	.	.									
CMFS010	.	.									
CMFS015	.	.									
CMFS025	.	.									
CMFS040	.	.									
CMFS050	.	.									
CMFS075		.	.	.							

Model	DN15	DN25	DN40	DN50	DN80	DN100	DN150	DN200	DN250	DN300	DN350
CMFS100		•	•	•							
CMFS150		•	•	•							
CMF010	•	•									
CMF025	•	•									
CMF050	•	•									
CMF100		•									
CMF200			•	•							
CMF300					•	•					
CMF350						•					
CMF400						•	•				
CMFHC2							•	•			
CMFHC3								•	•		
CMFHC4									•	•	•

**JIS B 2220 specification flange compatibility**

**Note**

Sensors with JIS process connections do not meet ASME B31.1 power piping code.

Model	15 mm	25 mm	40 mm	50 mm	80 mm	100 mm	150 mm
CMFS007	•						
CMFS010	•						
CMFS015	•						
CMFS025	•						
CMFS040	•						
CMFS050	•						
CMFS075		•	•	•			
CMFS100		•	•	•			
CMFS150		•	•	•			
CMF010	•						
CMF025	•						
CMF050	•						
CMF100		•					
CMF200			•	•			
CMF300					•	•	
CMF350						•	
CMF400						•	•
CMFHC2							
CMFHC3							
CMFHC4							

VCO/VCR specification flange compatibility and Tri-Clamp® compatible flanges

Model	VCO specification				Tri-Clamp compatible					
	#4	#8	#12	#16	0.5 in	0.75 in	1 in	1.5 in	2 in	3 in
CMFS007	.	.			.					
CMFS010	.	.			.	.				
CMFS015	.	.			.	.				
CMFS025		.			.	.	.			
CMFS040		.			.	.	.			
CMFS050		.	.		.	.	.			
CMFS075			.			.	.	.	.	
CMFS100				.		.	.	.	.	
CMFS150				.			.	.	.	
CMF010	.	.			.					
CMF025		.	.		.					
CMF050		.	.		.	.				
CMF100				.			.			
CMF200								.	.	
CMF300										.
CMF350										
CMF400										
CMFHC2										
CMFHC3										
CMFHC4										

## Process pressure ratings

Sensor maximum working pressure reflects the highest possible pressure rating for a given sensor. Process connection type and environmental and process fluid temperatures may reduce the maximum rating.

All sensors comply with Council Directive 2014/68/EU on pressure equipment.

Some sensor models also comply with the ASME® B31.1 power piping design code as indicated with a pressure rating in the table. Sensors with JIS process connections do not comply with ASME B31.1 power piping code.

**Sensor maximum working pressure for stainless steel models: 304L (L) and 316L (M/A)**

Model	ASME B31.3 compliance	ASME B31.1 compliance
CMFS007M, CMFS010M	3,625 psig (249.93 barg)	N/A
CMFS015M	2,200 psig (151.68 barg)	N/A
CMFS025M, CMFS040M, CMFS050M, CMFS075M, CMFS100M, CMFS150M	1,500 psig (103.42 barg)	1,500 psig (103.42 barg)
CMF010M/L	1,812 psig (124.93 barg)	1,812 psig (124.93 barg)
CMF025M/L, CMF050M/L	1,500 psig (103.42 barg)	1,500 psig (103.42 barg)
CMF100M	1,500 psig (103.42 barg)	1,500 psig (103.42 barg)

Model	ASME B31.3 compliance	ASME B31.1 compliance
CMF100L	1,450 psig (99.97 barg)	1,400 psig (96.52 barg)
CMF200M/L/A	1,580 psig (108.94 barg)	1,580 psig (108.94 barg)
CMF300M/L/A	1,730 psig (119.28 barg)	1,730 psig (119.28 barg)
CMF350M/A	1,480 psig (102.04 barg)	1,480 psig (102.04 barg)
CMF400M/A	1,500 psig (103.42 barg)	1,500 psig (103.42 barg)
CMFHC2M/A	1,480 psig (102.04 barg)	1,470 psig (101.35 barg)
CMFHC3M/A	1,480 psig (102.04 barg)	1,460 psig (100.66 barg)
CMFHC4M	1,480 psig (102.04 barg)	N/A

#### Sensor maximum working pressure for nickel alloy C22 models (H/B)

Model	ASME B31.3 compliance	ASME B31.1 compliance
CMFS010H, CMFS015H	6,000 psig (413.69 barg)	N/A
CMFS025H, CMFS050H	3,626 psig (250 barg)	3,626 psig (250 barg)
CMFS100H	3,626 psig (250 barg)	3,480 psig (239.94 barg)
CMFS150H	3,626 psig (250 barg)	3,520 psig (242.70 barg)
CMF010H	3,263 psig (224.98 barg)	N/A
CMF025H	2,755 psig (189.95 barg)	N/A
CMF050H	2,683 psig (184.99 barg)	N/A
CMF100H	2,465 psig (169.96 barg)	N/A
CMF200H/B	2,755 psig (189.95 barg)	N/A
CMF300H/B	2,683 psig (184.99 barg)	N/A
CMF400H/B	2,855 psig (196.85 barg)	N/A

#### Sensor maximum working pressure for high pressure models (P)

Model	ASME B31.3 compliance	ASME B31.1 compliance
CMFS010P, CMFS015P	6,000 psig (413.69 barg)	N/A
CMFS025P, CMFS050P	3,626 psig (250 barg)	3,626 psig (250 barg)
CMFS100P	3,626 psig (250 barg)	3,480 psig (239.94 barg)
CMFS150P	3,626 psig (250 barg)	3,520 psig (242.70 barg)
CMF010P	6,000 psig (413.69 barg)	N/A
CMF350P	2,250 psig (155.13 barg)	N/A
CMF400P	2,973 psig (204.98 barg)	N/A

#### Sensor maximum working pressure for super duplex models (Y)

Model	ASME B31.3 compliance	ASME B31.1 compliance
CMFHC2Y, CMFHC3Y	2,320 psig (159.96 barg)	N/A

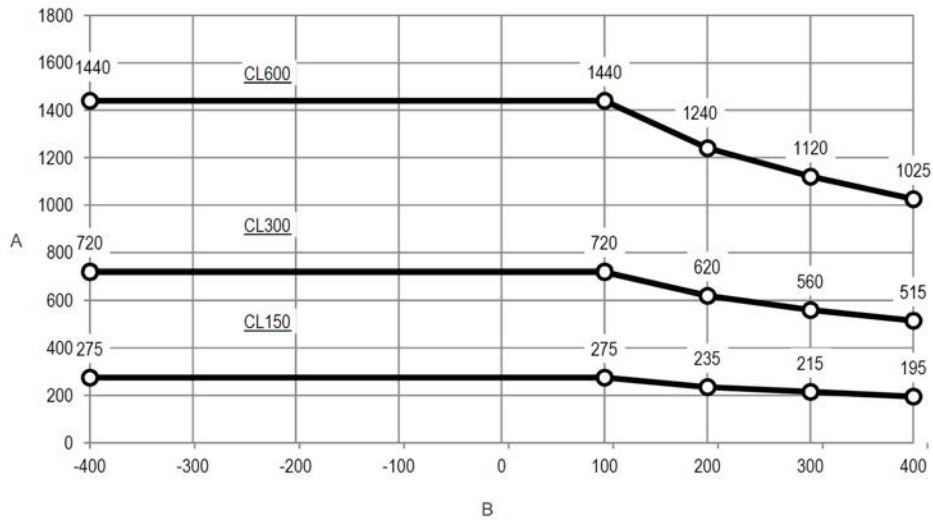
# Temperature and pressure de-ratings

**Note**

- The ratings in this section apply to the combined sensor and process connection to ensure that the meter does not exceed the limits of either component.
- The temperature and pressure de-ratings graphs do not represent all possible model and fitting combinations. For combinations not listed here, contact a sales representative or the factory.

**CMF010M–CMF400M**

Process connection — ASME B16.5 316/316L weld neck



A. Pressure (psi)  
 B. Temperature °F

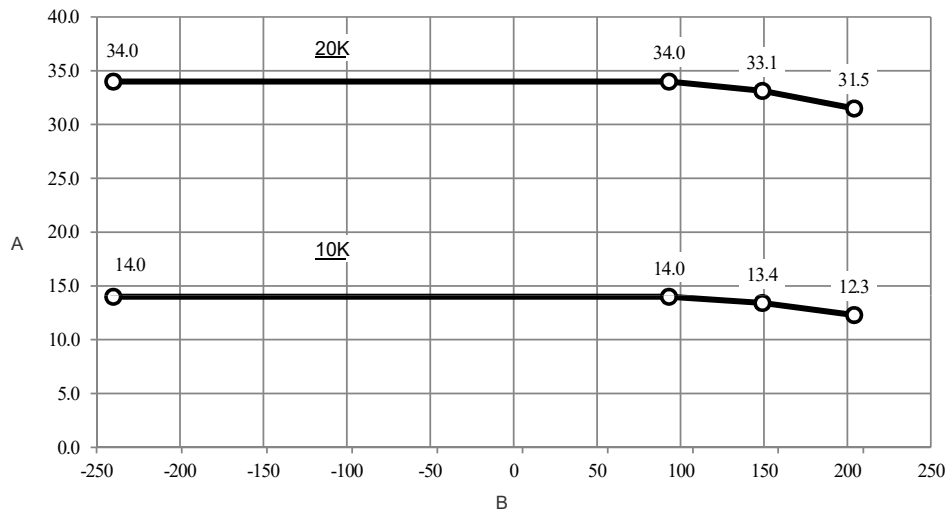


**CMF010M-CMF400M,CMF400P, CMF010H- CMF300HCMFS007M-CMFS150M,CMFS010H-CMFS150H,CMFS025P-CMFS150P**

Process connection — JIS B 2220

**Note**

- The CMFS025-CMFS150 lower operating temperature is -58 °F (-50 °C).
- Sensors with JIS process connections do not comply with ASME B31.1 power piping code.



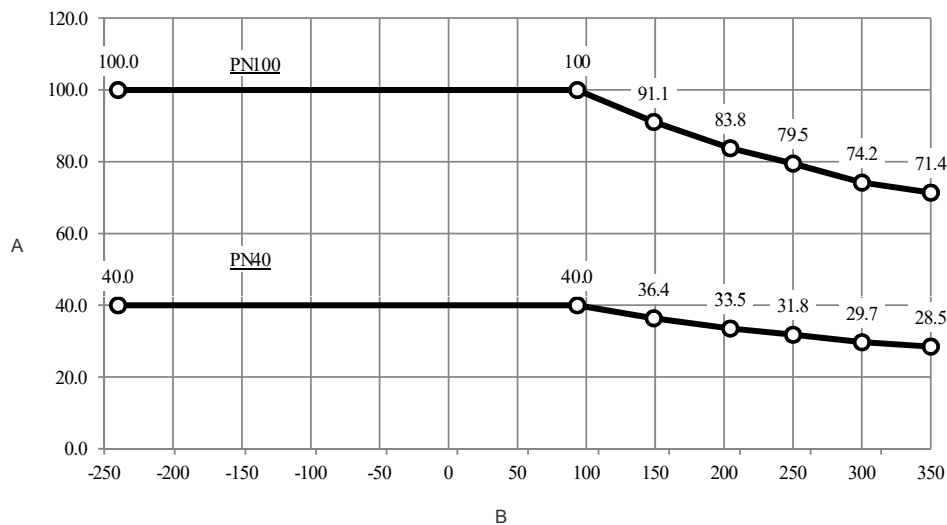
A. Pressure (bar)  
B. Temperature °C

**CMF010M-CMF400M,CMF200A-CMF400A,CMFS007M-CMFS150M**

Process connection — DIN or EN 1092-1 F316/F316L weld neck

**Note**

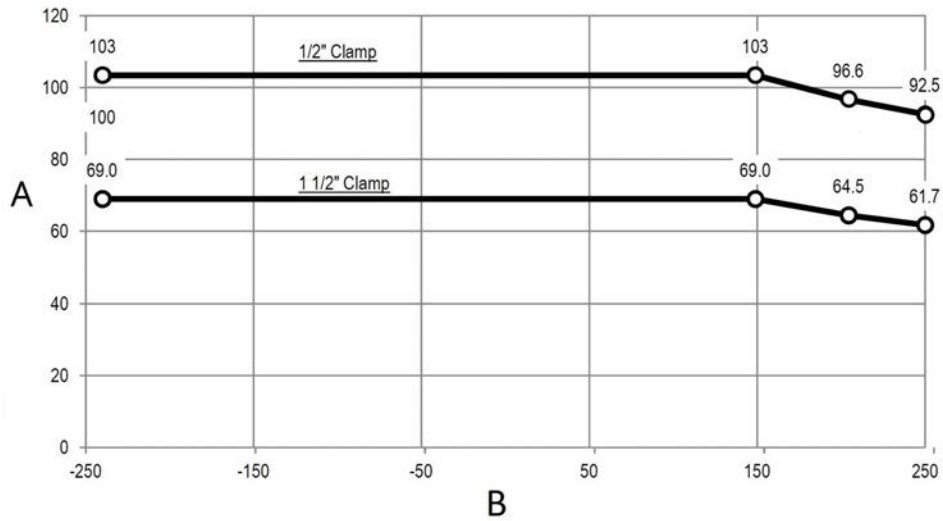
The CMF\_A and CMFS\_M lower operating temperature is -58 °F (-50 °C), and the CMF\_M and CMFS\_M upper operating temperature is +400 °F (+204 °C).



A. Pressure (bar)  
B. Temperature °C

**CMF010M-CMF300M**

Process connection — Tri-Clamp compatible 316L hygienic fittings



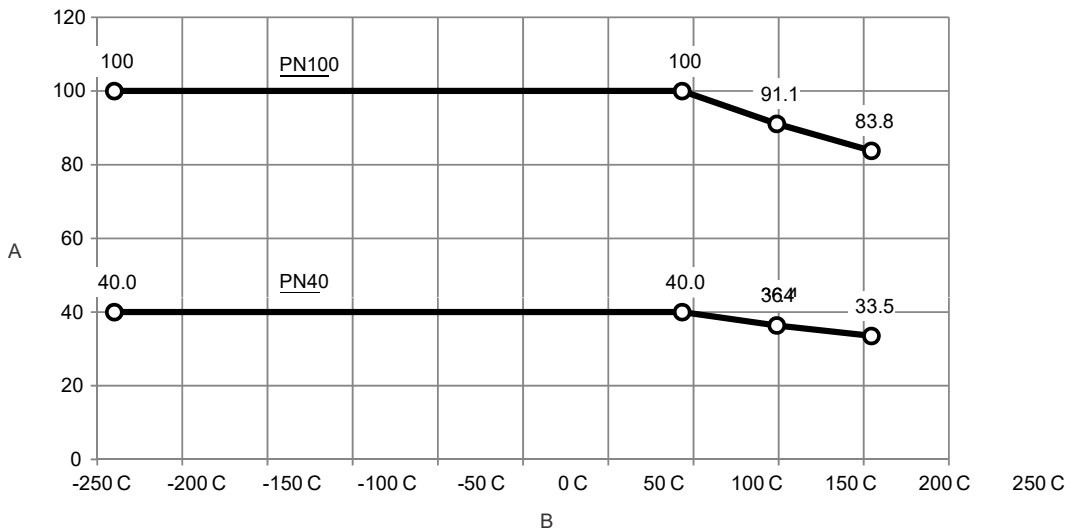
A. Pressure (bar)  
 B. Temperature °C

**CMF025M-CMF400M and CMFS007M-CMFS150M**

Process connection — DIN 316/316L wafer and weld neck

**Note**

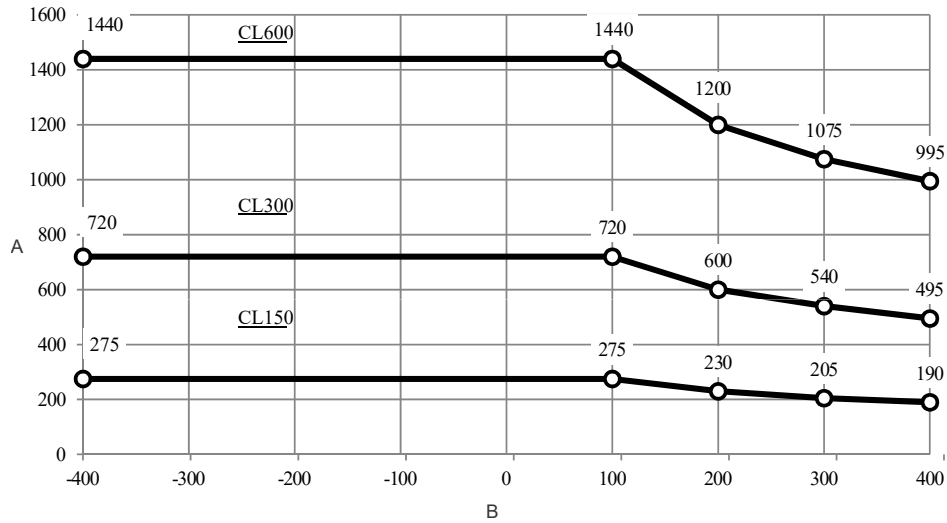
The CMFS025-CMFS150 lower operating temperature is -58 °F (-50 °C).



A. Pressure (bar)  
 B. Temperature °C

**CMF010H-CMF400H,CMF010L-CMF300L**

Process connection — ASME B16.5 F304/F304L weld neck and lap joint



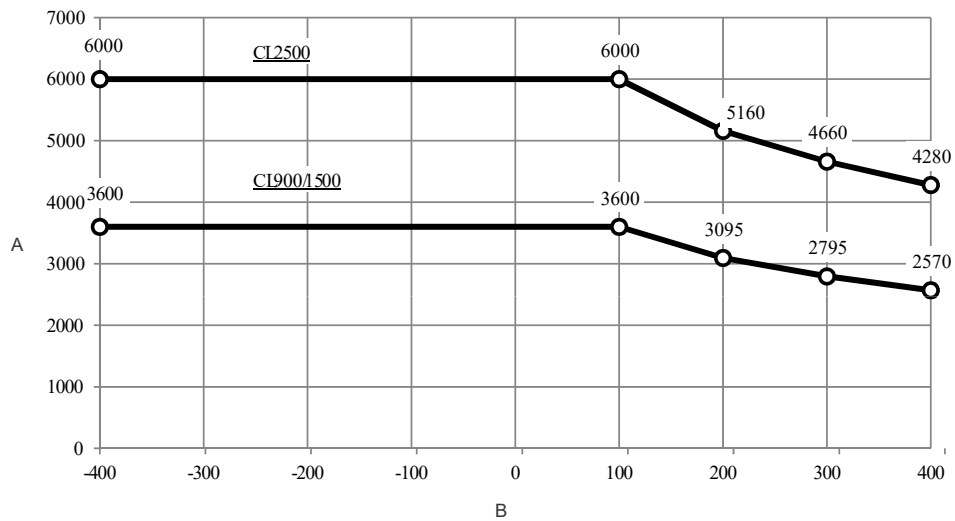
A. Pressure (psi)  
 B. Temperature °F

**CMF010P and CMFS010P-CMFS150P**

Process connection — ASME B16.5 316/316L weld neck

**Note**

The CMFS025-CMFS150 lower operating temperature is -58 °F (-50 °C).



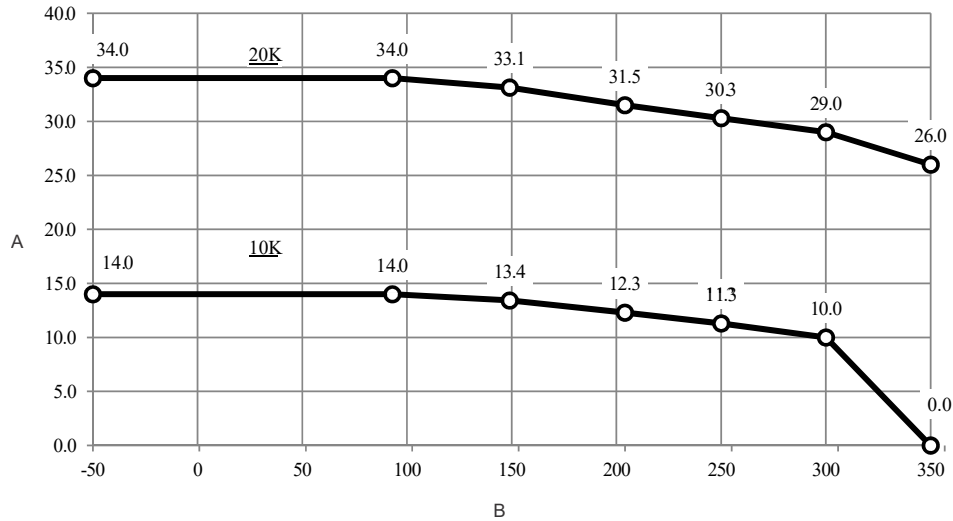
A. Pressure (psi)  
 B. Temperature °F

**CMF200A, CMF300A, CMF400A, CMF200B, CMF300B**

Process connection — JIS B 2220

**Note**

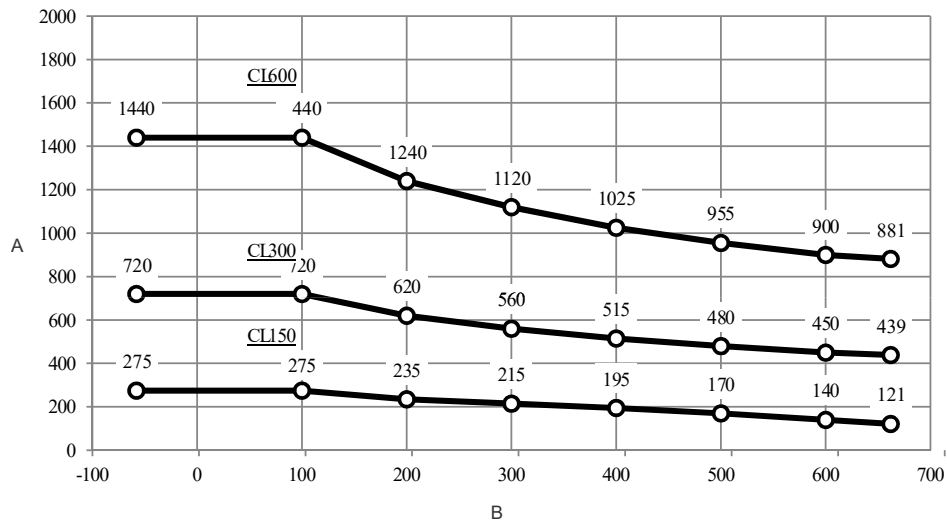
Sensors with JIS process connections do not comply with ASME B31.1 power piping code.



A. Pressure (bar)  
 B. Temperature °C

**CMF200A, CMF300A, CMF400A, CMF200B, CMF300B, CMF400B**

Process connection — ASME B16.5 F304/F304L and F316/F316L weld neck and lap joint



A. Pressure (psi)  
 B. Temperature °F

**CMF400P, CMFS100P, CMFS150P**

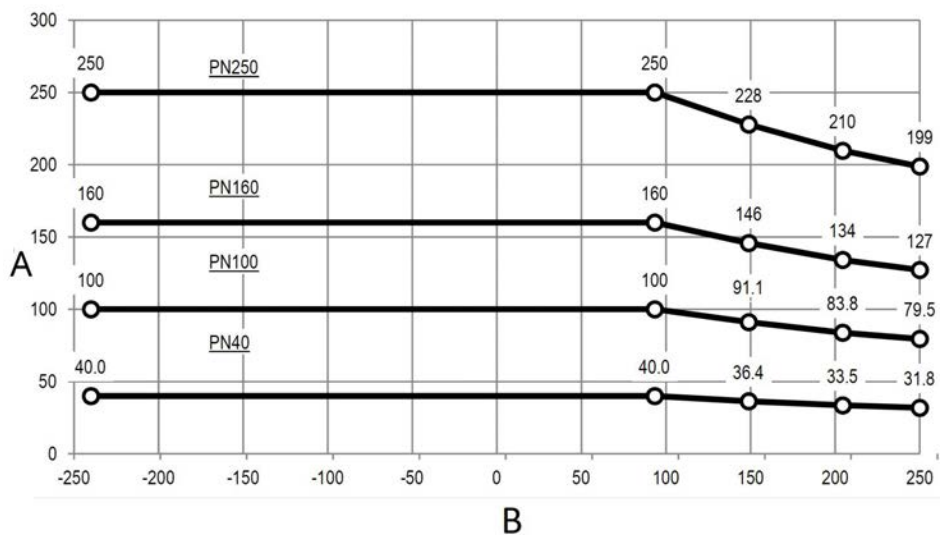
Process connection — DIN or EN 1092-1 F316/F316L weld neck

**Note**

The CMF\_A and CMFS\_P lower operating temperature is -58 °F (-50 °C), and the CMF\_P and CMFS\_P upper operating temperature +400 °F (+204 °C).

**Note**

PN250 is only available on CMFS100P and CMFS150P.



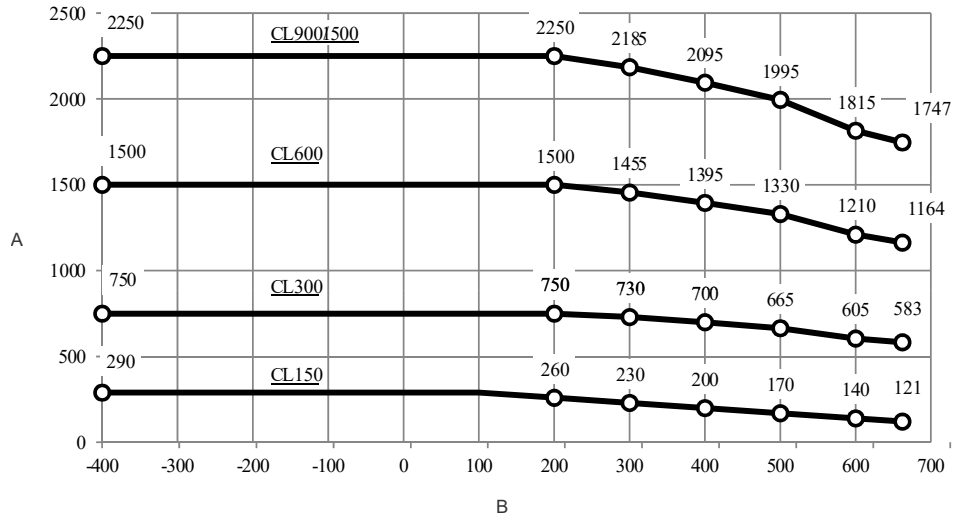
- A. Pressure (bar)
- B. Temperature °C

**CMF400B and CMF400H**

Process connection — ASME B16.5 UNS N06022 weld neck

**Note**

The CMF400B lower operating temperature is -58 °F (-50 °C) and the CMF400H upper operating temperature is +400 °F (+204 °C).



- A. Pressure (psi)
- B. Temperature °F

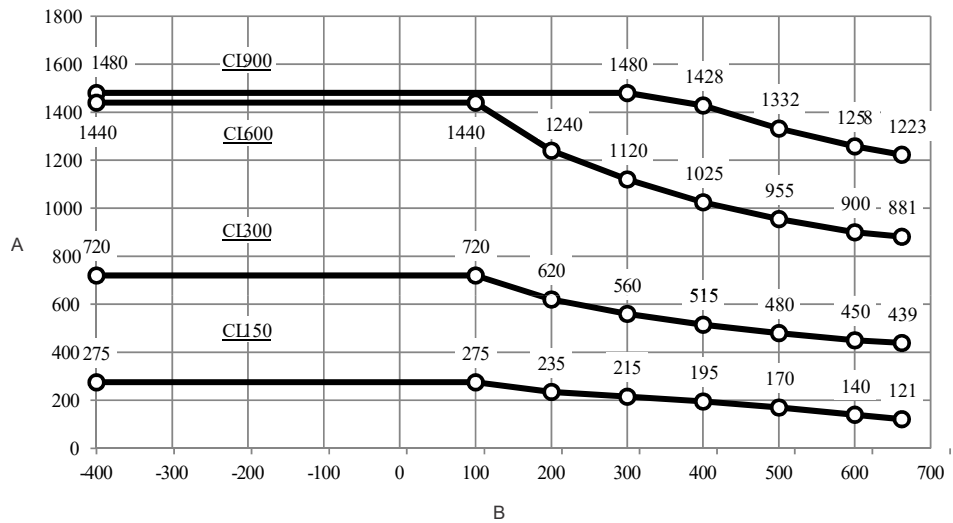
**CMFHC2M, CMFHC3M, CMFHC4M, CMFHC2A, CMFHC3A**

Process connection — ASME B16.5 F316/F316L weld neck

**Note**

The CMFHC\_A lower operating temperature is -58 °F (-50 °C) and the CMFHC\_M upper operating temperature is +400 °F (+204 °C).

Data in this chart is not valid for ASME B31.1 power piping compliance.



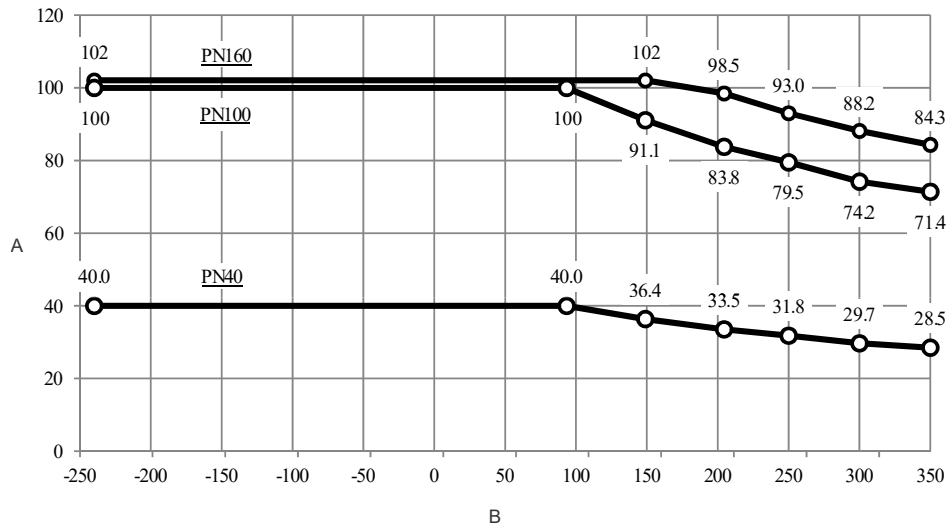
- A. Pressure (psi)
- B. Temperature °F

**CMFHC2M, CMFHC3M, CMFHC4M, CMFHC2A, CMFHC3A**

Process connection — EN1092-1 F316/F316L weld neck

**Note**

- The CMFHC\_A lower operating temperature is -58 °F (-50 °C) and the CMFHC\_M upper operating temperature is +400 °F (+204 °C).
- Data in this chart is not valid for ASME B31.1 power piping compliance.



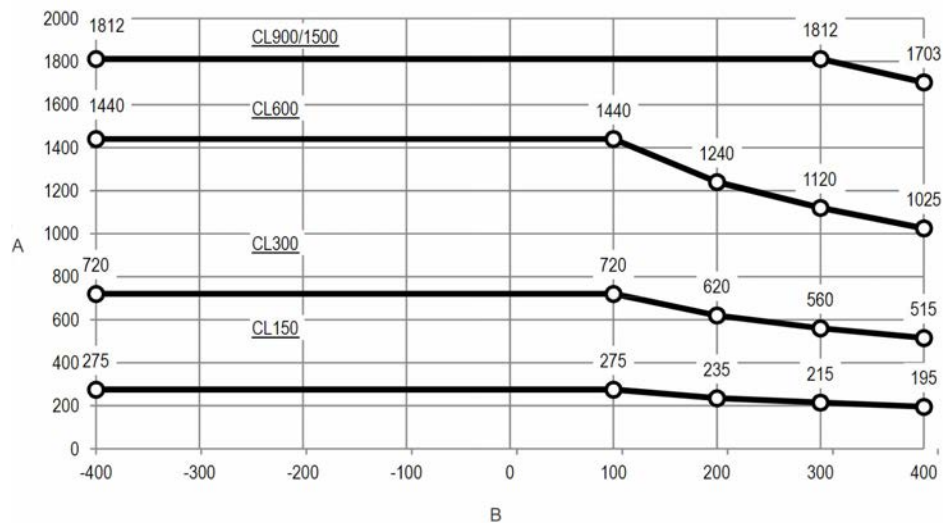
A. Pressure (bar)  
B. Temperature °C

**CMFS007M-CMFS150M**

Process connection — ASME B16.5 316/316L weld neck

**Note**

The CMFS025-CMFS150 lower operating temperature is -58 °F (-50 °C).



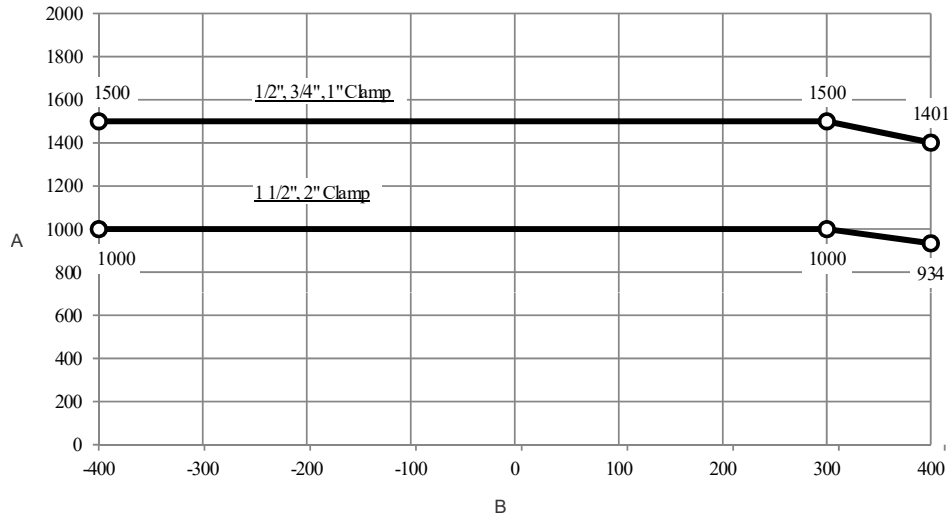
A. Pressure (psi)  
B. Temperature °F

**CMFS007M–CMFS150M**

Process connection — Tri-Clamp compatible 316L hygienic fittings

**Note**

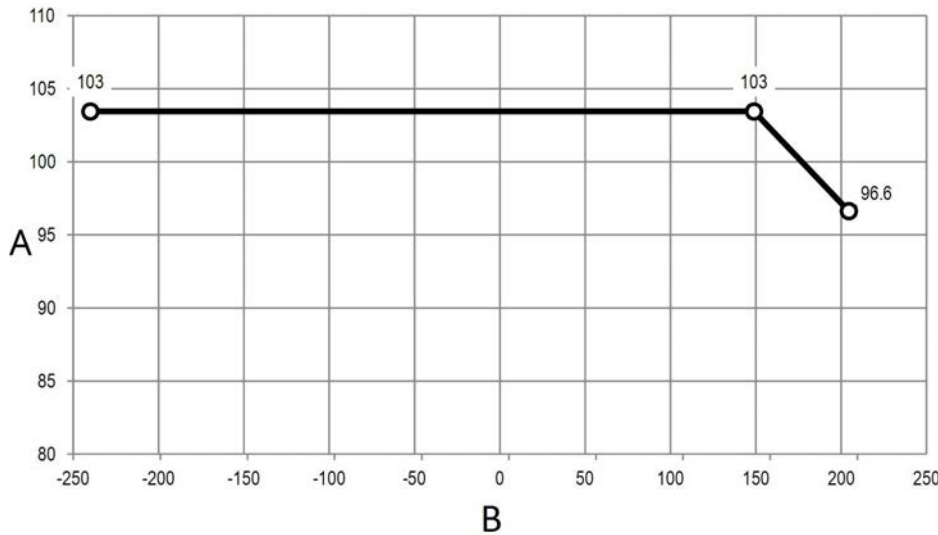
The CMFS025–CMFS150 lower operating temperature is -58 °F (-50 °C).



- A. Pressure (psi)
- B. Temperature °F

**CMFS010M and CMFS015M**

Process connection — ISO2852 hygienic



- A. Pressure (bar)
- B. Temperature °C

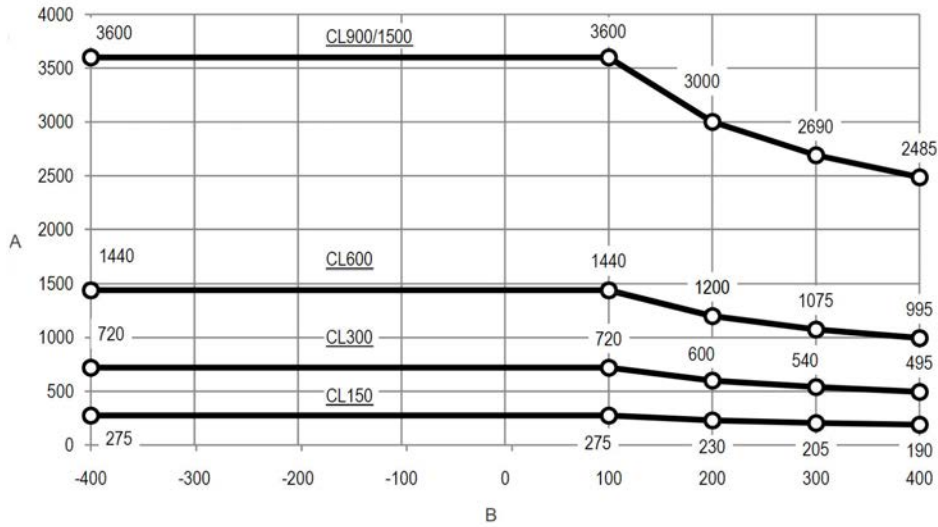


**CMFS010H–CMFS150H**

Process connection — ASME B16.5 F304/F304L lap joint

**Note**

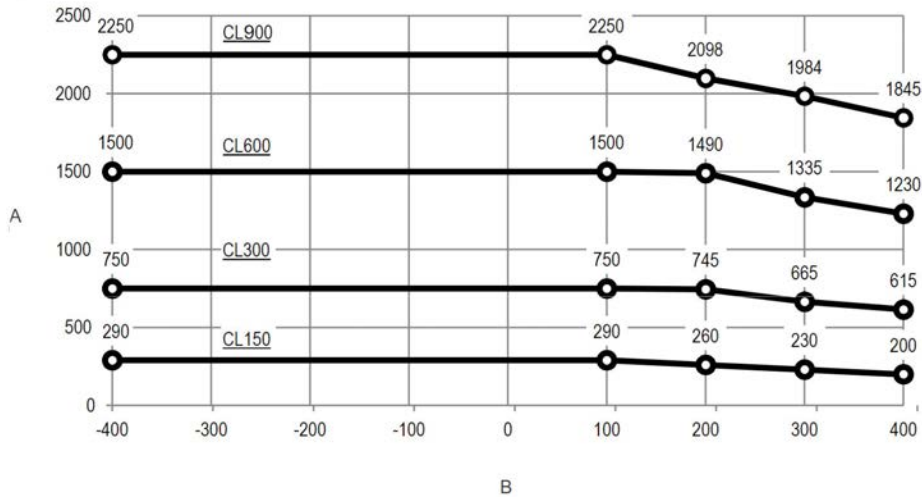
The CMFS025–CMFS150 lower operating temperature is -58 °F (-50 °C).



- A. Pressure (psi)
- B. Temperature °F

**CMFHC2Y–CMFHC3Y**

Process connection — ASME B16.5 Super Duplex weld neck



- A. Pressure (psi)
- B. Temperature °F

# Hazardous area classifications

## Detailed classifications

### Note

All information and approvals may change depending on sensor/transmitter configurations and operating conditions. Please reference appropriate certificates for exact approvals.

### CSA and CSA C-US approvals

The following products are available only with CSA C-US approval (i.e., not CSA):

- Sensors with an enhanced core processor
- High-temperature sensors

All models with a 2400S transmitter	Ambient temperature: -40 to +140 °F (-40 to +60 °C)
	Class I, Div. 2, Groups A, B, C and D Class II, Div. 2, Groups F and G
All models with a 1600 transmitter	Ambient temperature: -40 to +149 °F (-40 to +65 °C)
	Class I, Div. 2, Groups A, B, C and D Class II, Div. 2, Groups F and G
All CMFS models with an FMT transmitter	Ambient temperature: -13 to +140 °F (-25 to +60 °C)
	Class I, Div. 2, Groups A, B, C and D Class II, Div. 2, Groups F and G
All CMF models with a core processor or 2200S transmitter	Ambient temperature: -40 to +140 °F (-40 to +60 °C)
	Class I, Div. 1, Groups C and D
	Class I, Div. 2, Groups A, B, C, and D
	Class II, Div.1, Groups E, F, and G
	Class II, Div.2, Groups F and G
All CMF models with a junction box	Ambient temperature: +140 °F (+60 °C) maximum
	Class I, Div. 1, Groups C and D
	Class I, Div. 2, Groups A, B, C, and D
	Class II, Div.1, Groups E, F, and G
All CMFS models with a core processor or 2200S transmitter	Ambient temperature: -40 to +140 °F (-40 to +60 °C)
	Class I, Div. 1, Groups C and D
	Class I, Div. 2, Groups A, B, C, and D
	Class II, Div.1, Groups E, F, and G
	Class II, Div.2, Groups F and G
All CMFS models and CMF200, CMF300, CMF350, CMF400, CMFHC2, CMFHC3, and CMFHC4 with a 4700 transmitter	Ambient temperature: -61 to +149 °F (-52 to +65 °C)
	Class I, Div. 1, Groups C and D
	Class I, Div. 2, Groups A, B, C, and D
	Class II, Div.1, Groups E, F, and G
	Class II, Div.2, Groups F and G

All CMF models with a junction box	Ambient temperature: +140 °F (+60 °C) maximum
	Class I, Div. 1, Groups C and D
	Class I, Div. 2, Groups A, B, C, and D
	Class II, Div.1, Groups E, F, and G
All CMFS models with a core processor or 2200S transmitter	Ambient temperature: -40 to +140 °F (-40 to +60 °C)
	Class I, Div. 1, Groups C and D
	Class I, Div. 2, Groups A, B, C, and D
	Class II, Div.1, Groups E, F, and G
All CMFS models and CMF200, CMF300, CMF350, CMF400, CMFHC2, CMFHC3, and CMFHC4 with a 4700 transmitter	Ambient temperature: -61 to +149 °F (-52 to +65 °C)
	Class I, Div. 1, Groups C and D
	Class I, Div. 2, Groups A, B, C, and D
	Class II, Div.2, Groups F and G
All CMFS models with a junction box	Ambient temperature: +140 °F (+60 °C) maximum
	Class I, Div. 1, Groups C and D
	Class I, Div. 2, Groups A, B, C, and D
	Class II, Div.1, Groups E, F, and G
All CMFS models with 5700 transmitter	Ambient temperature is limited to -40 °F (-40.0 °C) to 149 °F (65.0 °C) for CSA compliance. Temperature code T4 is for Division 2 installations and T6 is for Division 1 installations.
	Class I, Div. 1, Groups C and D. Class II, Div. 1, Groups E, F, and G explosion proof (XP) (when installed with approved conduit seals). Otherwise, Class I, Div. 2, Groups A, B, C, and D.
	Provides non-incendive( NI) sensor outputs for use in Class I, Div. 2, Groups A, B, C, and D; or Intrinsically safe (IS) sensor outputs for use in Class I, Div. 1, Groups C and D or Class II, Div. 1, Groups E, F, and G.
All CMFS models and CMF200, CMF300, and CMF350 with 4200	XP: <ul style="list-style-type: none"> <li>■ CLASS I, DIV. 1, Groups C, D</li> <li>■ CLASS I, DIV. 2, Groups A, B, C, D</li> <li>■ CLASS II, Div. 1, Groups E, F, and G</li> </ul>
	IS: <ul style="list-style-type: none"> <li>■ CLASS I, DIV. 1, Groups A, B, C, D</li> <li>■ CLASS I, DIV. 2, Groups A, B, C, D</li> <li>■ CLASS II, Div. 1, Groups E, F, and G</li> </ul>





All CMFS models and CMF200, CMF300, and CMF350 with 4200	NI: <ul style="list-style-type: none"> <li>■ CLASS I, DIV. 2, Groups A, B, C, D</li> <li>■ CLASS II, Div. 2, Groups F, and G</li> </ul>
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**NEPSI approvals**

All models with a 2400S transmitter	Ex nA II T1-T5, DIP A22 T <sup>(1)</sup> T1-T5
CMF010, CMF025, CMF050, CMF100, and all CMFS models with a core processor or a junction box	Ex ib IIC T1-T, DIP A22 T <sup>(1)</sup> T1-T <sup>(1)</sup>
CMF200, CMF300, CMF350, and CMF400 with a core processor or a junction box	Ex ib IIB/IIC T1-T <sup>(1)</sup> , DIP A22 T <sup>(1)</sup> T1-T <sup>(1)</sup>

(1) For ambient and process temperature limits, refer to the appropriate approval certificate.

**ATEX approvals**

All models with a 2400S transmitter and all CMFS models with a FMT transmitter	 II 3G Ex nA IIC T1-T5 Gc II 3D Ex tc IIIC T <sup>(1)</sup> °C Dc IP66
CMF010, CMF025, CMF050, CMF100, and all CMFS models with a 2200S transmitter	 II 2G Ex ib IIC T1-T4 Gb II 2D Ex ibD 21 T <sup>(1)</sup> °C  II 3G Ex nA IIC T1-T4 Gc II 3D Ex tc IIIC T <sup>(1)</sup> °C Dc IP66
All CMFS models and CMF200, CMF300, CMF350, CMF400, CMFHC2, CMFHC3, CMFHC4 with 4700 transmitter	 <ul style="list-style-type: none"> <li>■ II 2(1)G Ex db [ia Ga] IIC T6 Gb</li> <li>■ II 2(1)D Ex tb [ia Da] IIIC T72 °C Db</li> <li>■ IP66/IP67</li> </ul> or <ul style="list-style-type: none"> <li>■ II 2(1)G Ex db eb [ia Ga] IIC T6 Gb</li> <li>■ II 2(1)D Ex tb [ia Da] IIIC T72 °C Db</li> <li>■ IP66/IP67</li> </ul> or <ul style="list-style-type: none"> <li>■ II 1G Ex ia IIC T4 Ga</li> <li>■ II 1D Ex ia IIIC T77 °C Da</li> <li>■ IP66/IP67</li> </ul> <ul style="list-style-type: none"> <li>■ II 3(1)G Ex ec [ia Ga] IIC T6 Gc</li> <li>■ II 3(1)D Ex tc [ia Da] IIIC T72 °C Dc</li> <li>■ IP66/IP67</li> </ul>

<p>Models CMF200, CMF300, CMF350, and CMF400 with 2200S transmitter</p>	<p style="text-align: right;"></p> <p>II 2G Ex ib IIB/IIC T1-T4 Gb II 2D Ex ibD 21 T<sup>(1)</sup> °C</p>
<p>All CMFS models with a core processor or a junction box</p>	<p style="text-align: right;"></p> <p>&gt;&gt; II 3G Ex nA IIC T1-T4 Gc II 3D Ex tc IIIC T<sup>(1)</sup> °C Dc IP66</p>
<p>CMF010, CMF025, CMF050, and CMF100, with a core processor or a junction box</p>	<p style="text-align: right;"></p> <p>II 2G Ex ib IIC T1-T<sup>(1)</sup> Gb II 2D Ex ib IIIC T<sup>(1)</sup> °C Db IP66</p>
<p>CMF200, CMF300, CMF350, CMF400, and all CMFHC models with a core processor or a junction box</p>	<p style="text-align: right;"></p> <p>II 2G Ex ib IIB/IIC T1-T<sup>(1)</sup> Gb II 2D Ex ib IIIC T<sup>(1)</sup> °C Db IP66</p>
<p>Models CMF200, CMF300, and CMF350, with 4200 transmitter</p>	<p style="text-align: right;"></p> <ul style="list-style-type: none"> <li>▪ II 2(1)G Ex db [ia Ga] IIC T6 Gb</li> <li>▪ II 2(1)D Ex tb [ia Da] IIIC T72°C Db</li> <li>▪ IP66/IP67</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>▪ II 2(1)G Ex db eb [ia Ga] IIC T6 Gb</li> <li>▪ II 2(1)D Ex tb [ia Da] IIIC T72°C Db</li> <li>▪ IP66/IP67</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>▪ II 1G Ex ia IIC T4 Ga</li> <li>▪ II 1D Ex ia IIIC T77°C Da</li> <li>▪ IP66/IP67</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>▪ II 3(1)G Ex ec [ia Ga] IIC T6 Gc</li> <li>▪ II 3(1)D Ex tc [ia Da] IIIC T72°C Dc</li> </ul> <p>II 2D Ex ib IIIC T<sup>(1)</sup> °C Db IP66</p>
<p>All models with 1600 transmitter</p>	<p>II 3 G Ex ec nC IIC T5 Gc</p> <p>Dust marking:</p> <ul style="list-style-type: none"> <li>▪ II 3 D Ex tc</li> <li>▪ IIIC T91 °C Dc</li> <li>▪ IP66/IP67</li> </ul>

All CMFS models with 5700 transmitter	Standard or Wi-Fi IIB display II 3 G/D Ex nA nC IIB+H2 T4 Gc No display, standard IIC, or Wi-Fi IIC display Ex nA nC IIC T4 Gc
	Dust marking: IIIC T75 °C Dc <ul style="list-style-type: none"> <li>■ Ex tc</li> <li>■ IIIC T75 °C Dc</li> <li>■ IP66/IP67</li> </ul>

**IECEX approvals**

All models with a 2400S transmitter, and all CMFS models with a FMT transmitter	Ex nA IIC T1–T5 Gc
CMF010, CMF025, CMF050, CMF100, all CMFS models with a core processor or a junction box	Ex ib IIC T1–T <sup>(1)</sup> Gb
CMF200, CMF300, CMF400, and all CMFHC models with core processor or a junction box	Ex ib IIB/IIC T1–T <sup>(1)</sup> Gb
All CMFS models and CMF010, CMF025, CMF050, and CMF100 with 2200S transmitter	Ex ib IIC T1–T4 Gb Ex nA IIC T1–T4 Gc
CMF200, CMF300, CMF350, and CMF400 with 2200S transmitter	Ex ib IIB/IIC T1–T4 Gb Ex nA IIC T1–T4 Gc
All CMFS models and CMF200, CMF300, CMF350, CMF400, CMFHC2, CMFHC3, and CMFHC4 with 4700	ECEX Z1 Ex d: <ul style="list-style-type: none"> <li>■ Ex db [ia Ga] IIC T6 Gb</li> <li>■ Ex tb [ia Da] IIIC T72 °C Db</li> <li>■ IP66/IP67 IECEX Z1 Ex de</li> <li>■ Ex db eb [ia Ga] IIC T6 Gb</li> <li>■ Ex tb [ia Da] IIIC T72 °C Db</li> <li>■ IP66/IP67 IECEX Z0/1 Ex ia:</li> <li>■ Ex ia IIC T4 Ga</li> <li>■ Ex ia IIIC T77 °C Da</li> <li>■ IP66/IP67 IECEX Z2 Ex ec</li> <li>■ Ex ec [ia Ga] IIC T6 Gc</li> <li>■ Ex tc [ia Da] IIIC T72 °C Dc</li> <li>■ IP66/IP67</li> </ul>
All CMFS models with 5700	Standard or Wi-Fi IIB display Ex nA nC IIB+H2 T4 Gc No display, standard IIC, or WiFi IIC Ex nA nC IIC T4 Gc Dust marking Ex tc IIIC T75 °C Dc IP66/IP67
All models with 1600	Gas markings Ex ec nC IIC T5 Gc Dust marking Ex tc IIIC T91 °C Dc IP66/IP67

<p>All CMFS models and CMF200, CMF300, and CMF350 with 4200</p>	<p>IECEX Z1 Ex d:</p> <ul style="list-style-type: none"> <li>▪ Ex db [ia Ga] IIC T6 Gb</li> <li>▪ Ex tb [ia Da] IIIC T72°C Db</li> <li>▪ IP66/IP67 IECEX Z1 Ex de</li> <li>▪ Ex db eb [ia Ga] IIC T6 Gb</li> <li>▪ Ex tb [ia Da] IIIC T72°C Db</li> <li>▪ IP66/IP67 IECEX Z0/1 Ex ia:</li> <li>▪ Ex ia IIC T4 Ga</li> <li>▪ Ex ia IIIC T77°C Da</li> <li>▪ IP66/IP67 IECEX Z2 Ex ec:</li> <li>▪ Ex ec [ia Ga] IIC T6 Gc</li> <li>▪ Ex tc [ia Da] IIIC T72°C Dc</li> <li>▪ IP66/IP67</li> </ul>
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**EAC approvals**

<p>All models</p>	<p>Zone 1</p>	<p>Hazardous Area Approval IIC modified - Hazardous Area Approval</p>
	<p>Zone 2</p>	<p>Hazardous Area Approval</p>

**INMETRO approvals**

<p>All models</p>	<p>Zone 1</p>	<p>Hazardous Area Approval IIC modified - Hazardous Area Approval</p>
	<p>Zone 2</p>	<p>Hazardous Area Approval</p>

**Marine approval classifications**

For applications on board ocean-going vessels and offshore locations.

<p><b>Marine classification societies</b></p>	<p><b>Models</b></p>
<p>American Bureau of Shipping</p>	<p>All models</p>
<p>Bureau Veritas</p>	<p>All models</p>
<p>China Classification Society</p>	<p>CMF010, CMF025, CMF050, CMF100, CMF200, CMF300, CMF350, CMF400, CMFH2, CMFH3, CMFH4</p>
<p>Det Norske Veritas</p>	<p>All models</p>
<p>Korean Register</p>	<p>All models</p>
<p>Lloyd's Register</p>	<p>CMFS010H, CMFS015H, CMFS025H, CMFS050H, CMFS100H, CMFS150H, CMF200, CMF300, CMF350, CMF400, CMFH2, CMFH3, CMFH4</p>
<p>Nippon Kaiji Kyokai</p>	<p>CMF200, CMF300, CMF400, CMFH2, CMFH3, CMFH4</p>

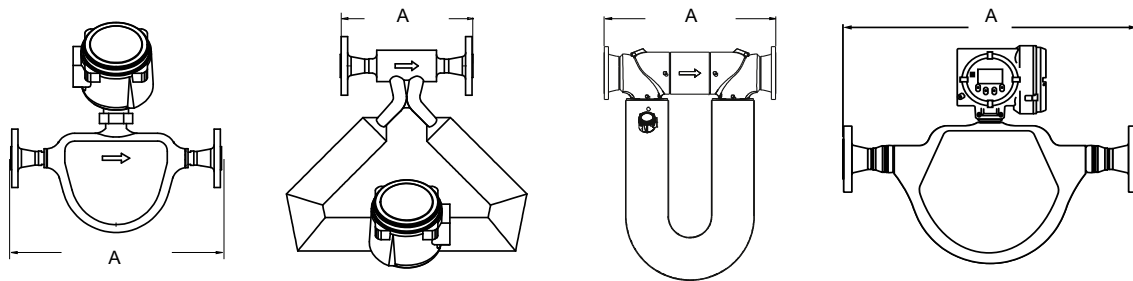
## Process connections

**Note**

The tables in this section do not represent all possible model and flange combinations. For combinations not listed here, contact a sales representative or the factory.

**Dimensions with process connections**

Dimension "A" is provided for each process fitting type, when available. It is the finished face-to-face dimension of the sensor with the process connection  $\pm 0.125$  in ( $\pm 3$  mm). The images below show Dimension "A" for each style and size of ELITE sensors.



**Weight with process connections**

Product weights in this section include the weight of the sensor with integral electronics and the process connection.

**Note**

Weights shown are product weight only, not shipping weight. For shipping weight, contact a sales representative or the factory.

**CMFS010H and CMFS015H (nickel alloy C22)**

Code	Description						Dim A in (mm)	Weight lb (kg)
323	#4		VCO	N06022	Swagelok compatible fitting	1/4" N10276 NPT female adapter	12.2 (309)	10.1 (4.6)
334	#4		VCO	N06022	Swagelok compatible fitting		12.2 (309)	10.1 (4.6)
520	0.5 in	CL150	ASME B16.5	F304/F304L	Lap joint flange	N06022 stub	12.6 (321)	15.7 (7.1)
521	0.5 in	CL300	ASME B16.5	F304/F304L	Lap joint flange	N06022 stub	13.0 (330)	16.5 (7.5)
522	15 mm	10K	JIS B 2220	F304/F304L	Lap joint flange	N06022 stub	13.0 (330)	11.7 (5.3)
523	DN15	PD40	DIN 2656	F304/F304L	Lap joint flange	Form C face, N06022 stub	13.2 (336)	12.1 (5.5)
524	DN15	PD40	EN 1092-1	F304/F304L	Lap joint flange	Type B1, N06022 stub	13.2 (336)	11.9 (5.4)



## CMFS007M, CMFS010M, and CMFS015M (316L stainless steel)

Code	Description						Dim A in (mm)	Weight lb (kg)
172	DN25	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	12.4 (314)	13.9 (6.3)
176	DN15	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	12.2 (310)	11.5 (5.2)
177	DN15	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type B2	12.8 (324)	13.5 (6.1)
178	DN15	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type D	12.8 (324)	13.3 (6.0)
183	DN25	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type D	12.4 (314)	13.7 (6.2)
300	15 mm	PN40	DIN 2635	F316/F316L	Weld neck flange	Type C	12.2 (310)	12.0 (5.4)
301	15 mm	PN40	DIN 2635	F316/F316L	Weld neck flange	Type N	12.2 (310)	12.0 (5.4)
302	15 mm	PN100	DIN 2635	F316/F316L	Weld neck flange	Type E	12.8 (324)	14.0 (6.4)
303	15 mm	PM 100	DIN 2637	F316/F316L	Weld neck flange	Type N	12.8 (324)	14.0 (6.4)
304	15 mm	10K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	12.0 (304)	11.3 (5.1)
305	15 mm	20K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	12.0 (304)	11.2 (5.1)
310	DN15	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type D	12.2 (310)	11.5 (5.2)
313	0.5 in	CL150	ASME B16.5	F316/F316L	Weld neck flange	Raised face	12.6 (321)	10.3 (4.7)
314	0.5 in	CL300	ASME B16.5	F316/F316L	Weld neck flange	Raised face	13.0 (330)	11.5 (5.2)
315	0.5 in	CL600	ASME B16.5	F316/F316L	Weld neck flange	Raised face	13.5 (343)	11.8 (5.3)
319	#8		VCO	316/316L	Swagelok compatible fitting	1/2" 316 NPT female adapter	11.6 (295)	12.1 (5.5)
321 <sup>(1)</sup>	0.5 in		Tri-Clamp compatible	316L	Hygienic fitting		11.5 (293)	8.2 (3.7)
323	#4		VCO	316/316L	Swagelok compatible fitting	1/4" NPT female adapter	12.2 (309)	10.1 (4.6)
324	#4		VCO	316/316L	Swagelok compatible fitting	1/4" tube compression fitting adapter	12.2 (309)	10.1 (4.6)
325	#4		VCO	316/316L	Swagelok compatible fitting	6mm tube compression fitting adapter	12.2 (309)	10.1 (4.6)
334	#4		VCO	316/316L	Swagelok compatible fitting		12.2 (309)	10.1 (4.6)
335	#8		VCO	316/316L	Swagelok compatible fitting		11.6 (295)	8.5 (3.8)

Code	Description						Dim A in (mm)	Weight lb (kg)
344 <sup>(2)(3)</sup>	0.75 in		Tri-Clamp compatible	316L	Hygienic fitting		11.5 (293)	8.2 (3.7)
345 <sup>(2)(3)</sup>	DN10		ISO 2852/ISO 1127 tube	316L	Hygienic fitting		11.2 (284)	8.2 (3.7)
346 <sup>(2)(3)</sup>	DN15		ISO 2852/DIN 11850 tube	316L	Hygienic fitting		11.2 (284)	8.3 (3.8)

- (1) Sensor is 3A authorized but not EHEDG certified when ordered with this fitting code.
- (2) Sensor is 3A authorized and EHEDG certified when ordered with this fitting code. Only available with case and hygienic code H.
- (3) Process connections 344, 345, 346 are not available for CMFS007 sensors.

**CMFS010P and CMFS015P (high pressure)**

Code	Description						Dim A in (mm)	Weight lb (kg)
150	0.5 in	CL900/1500	ASME B16.5	F316/F316L	Weld neck flange	Raised face	14.5 (368)	16.4 (7.4)
191	0.5 in	CL2500	ASME B16.5	F316/F316L	Weld neck flange	Raised face	15.5 (393)	13.5 (6.1)
319	#8		VCO	316/316L	Swagelok compatible fitting	1/2" 316 NPT female adapter	11.6 (295)	12.1 (5.5)
323	#4		VCO	316/316L	Swagelok compatible fitting	1/4" NPT female adapter	12.2 (309)	10.1 (4.6)
324	#4		VCO	316/316L	Swagelok compatible fitting	1/4" tube compression fitting adapter	12.2 (309)	10.1 (4.6)
325	#4		VCO	316/316L	Swagelok compatible fitting	6 mm tube compression fitting adapter	12.2 (309)	10.1 (4.6)
334	#4		VCO	316/316L	Swagelok compatible fitting		12.1 (309)	10.1 (4.6)
335	#8		VCO	316/316L	Swagelok compatible fitting		11.6 (295)	8.5 (3.8)

**CMFS025H and CMFS050H (nickel alloy C22)**

Code	Description						Dim A in (mm)	Weight lb (kg)
520	0.5 in	CL150	ASME B16.5	F304/F304L	Lap joint flange	N06022 stub	20.5 (520)	24.8 (11.2)
521	0.5 in	CL300	ASME B16.5	F304/F304L	Lap joint flange	N06022 stub	20.8 (529)	25.6 (11.6)
524	DN15	PN40	EN 1092-1	F304/F304L	Lap joint flange	Type B1, N06022 stub	21.1 (535)	21.0 (9.5)

**CMFS025M, CMFS040M, and CMFS050M (316L stainless steel)**

Code	Description						Dim A in (mm)	Weight lb (kg)
172	DN25	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	19.2 (487)	22.5 (10.2)

Code	Description						Dim A in (mm)	Weight lb (kg)
176	DN15	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	19.0 (483)	20.1 (9.1)
177	DN15	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type B2	19.6 (497)	22.1 (10.0)
178	DN15	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type D	19.6 (497)	21.9 (9.9)
183	DN25	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type D	19.2 (487)	23.0 (10.4)
304	15 mm	10K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	18.8 (477)	19.9 (9.0)
305	15 mm	20K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	18.8 (477)	19.9 (9.0)
310	DN15	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type D	19.0 (483)	20.1 (9.1)
313	0.5 in	CL150	ASME B16.5	F316/F316L	Weld neck flange	Raised face	19.4 (494)	19.0 (8.6)
314	0.5 in	CL300	ASME B16.5	F316/F316L	Weld neck flange	Raised face	19.8 (503)	20.2 (9.2)
315	0.5 in	CL600	ASME B16.5	F316/F316L	Weld neck flange	Raised face	20.3 (515)	20.4 (9.6)
319	#8		VCO	316/316L	Swagelok compatible fitting	1/2" 316 NPT female adapter	18.2 (463)	20.8 (9.4)
321	0.5 in	Tri- Clamp compati ble	ASME BPE	316L	Hygienic fitting		18.1 (460)	16.9 (7.7)
322	0.75 in	Tri- Clamp compati ble	ASME BPE	316L	Hygienic fitting		18.0 (458)	16.8 (7.6)
335	#8		VCO	316/316L	Swagelok compatible fitting		18.2 (463)	17.2 (7.8)
336 <sup>(1)</sup>	#12		VCO	316/316L	Swagelok compatible fitting		18.0 (458)	17.5 (7.9)
339	1 in	Tri- Clamp compati ble	ASME BPE	316L	Hygienic fitting		21.0 (533)	17.7 (8.0)

(1) Available only on model CMFS050.

#### CMFS025P and CMFS050P (high pressure)

Code	Description						Dim A in (mm)	Weight lb (kg)
150	0.5 in	CL900/1 500	ASME B16.5	F316/F316L	Weld neck flange	Raised face	22.3 (567)	25.4 (11.5)
170	DN15	PN100/1 60	EN 1092-1	F316/F316L	Weld neck flange	Type B2	20.6 (523)	22.6 (10.2)
184	DN15	PN250	EN 1092-1	F316/F316L	Weld neck flange	Type B2	21.8 (554)	19.1 (8.7)

Code	Description						Dim A in (mm)	Weight lb (kg)
319	#8		VCO	316/316L	Swagelok compatible fitting	1/2" 316 NPT female adapter	19.0 (483)	21.2 (9.6)
335	#8		VCO	316/316L	Swagelok compatible fitting		19.0 (483)	17.6 (8.0)
336 <sup>(1)</sup>	#12		VCO	316/316L	Swagelok compatible fitting		19.1 (484)	17.9 (8.2)

(1) Available only on CMFS050.

**CMFS075M, CMFS100M, and CMFS150M (316L stainless steel)**

Code	Description						Dim A in (mm)	Weight lb (kg)
179	DN25	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	22.5 (573)	31.6 (14.3)
180	DN25	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type B2	24.0 (608)	37.6 (17.1)
181	DN25	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type D	24.0 (608)	37.4 (17.0)
311	DN25	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type D	22.5 (573)	31.4 (14.3)
316	DN50	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type D	23.4 (594)	38.5 (17.5)
317	25 mm	10K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	22.5 (573)	31.3 (14.2)
318	25 mm	20K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	22.5 (573)	31.8 (14.4)
322 <sup>(1)</sup>	0.75 in	Tri-Clamp compatible	ASME BPE	316L	Hygienic fitting		22.1 (561)	26.0 (11.8)
328	1 in	CL150	ASME B16.5	F316/F316L	Weld neck flange	Raised face	23.5 (598)	30.2 (13.7)
329	1 in	CL300	ASME B16.5	F316/F316L	Weld neck flange	Raised face	24.0 (610)	33.2 (15.1)
330	1 in	CL600	ASME B16.5	F316/F316L	Weld neck flange	Raised face	24.5 (623)	33.6 (15.3)
331	1.5 in	CL600	ASME B16.5	F316/F316L	Weld neck flange	Raised face	25.2 (639)	40.4 (18.3)
336 <sup>(2)</sup>	#12		VCO	316/316L	Swagelok compatible fitting		22.1 (561)	26.7 (12.1)
339 <sup>(1)</sup>	1 in		Tri-Clamp compatible	316L	Hygienic fitting		22.6 (575)	26.4 (12.0)
341	1.5 in	CL150	ASME B16.5	F316/F316L	Weld neck flange	Raised face	24.6 (624)	33.9 (15.4)
342	1.5 in	CL300	ASME B16.5	F316/F316L	Weld neck flange	Raised face	24.5 (623)	39.9 (18.1)
351	1.5 in	Tri-Clamp compatible	ASME BPE	316L	Hygienic fitting		22.6 (575)	26.7 (12.1)

Code	Description						Dim A in (mm)	Weight lb (kg)
352	2 in	Tri-Clamp compatible	ASME BPE	316L	Hygienic fitting		22.6 (574)	26.9 (12.2)
363	DN40	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type B2	24.3 (616)	43.9 (19.9)
365	DN50	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type B2	25.0 (634)	51.9 (23.5)
366	DN40	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type D	24.3 (617)	43.9 (19.9)
368	DN40	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	22.9 (582)	35.3 (16.0)
369	DN50	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	23.4 (594)	38.7 (17.6)
385	40 mm	10K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	23.0 (585)	34.1 (15.5)
387	40 mm	20K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	23.3 (591)	34.3 (15.6)
418	2 in	CL150	ASME B16.5	F316/F316L	Weld neck flange	Raised face	24.6 (625)	37.5 (17.0)
419	2 in	CL300	ASME B16.5	F316/F316L	Weld neck flange	Raised face	25.1 (638)	42.3 (19.2)
420	2 in	CL600	ASME B16.5	F316/F316L	Weld neck flange	Raised face	25.4 (645)	44.7 (20.3)

(1) Not available on CMFS150.

(2) Only available on CMFS075.

**CMFS100H and CMFS150H (nickel alloy C22)**

Code	Description						Dim A in (mm)	Weight lb (kg)
530 <sup>(1)</sup>	1 in	CL150	ASME B16.5	F304/F304L	Lap joint flange	N06022 stub	24.8 (629)	31.3 (14.2)
531 <sup>(1)</sup>	1 in	CL300	ASME B16.5	F304/F304L	Lap joint flange	N06022 stub	25.3 (642)	34.5 (15.6)
534 <sup>(1)</sup>	DN25	PN40	EN 1092-1	F304/F304L	Lap joint flange	Type B1, N06022 stub	25.0 (636)	33.7 (15.3)
540	1.5 in	CL150	ASME B16.5	F304/F304L	Lap joint flange	N06022 stub	25.5 (647)	34.8 (15.8)
541	1.5 in	CL300	ASME B16.5	F304/F304L	Lap joint flange	N06022 stub	26.0 (659)	40.5 (29.9)
544	2 in	CL150	ASME B16.5	F304/F304L	Lap joint flange	N06022 stub	25.4 (645)	39.8 (18.0)
545	2 in	CL300	ASME B16.5	F304/F304L	Lap joint flange	N06022 stub	25.9 (657)	44.0 (19.9)
549	DN50	PN40	EN 1092-1	F304/F304L	Lap joint flange	Type B1, N06022 stub	23.4 (594)	43.9 (19.9)

(1) Only available on CMFS100H.

**CMFS100P and CMFS150P (high pressure)**

Code	Description						Dim A in (mm)	Weight lb (kg)
180	DN25	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type B2	25.2 (640)	38.3 (17.4)
185	DN25	PN250	EN 1092-1	F316/F316L	Weld neck flange	Type B2	25.7 (653)	42.2 (19.2)
362	DN40	PN160	EN 1092-1	F316/F316L	Weld neck flange	Type B2	25.7 (652)	46.6 (21.1)
364	DN40	PN250	EN 1092-1	F316/F316L	Weld neck flange	Type B2	27.6 (702)	51.8 (23.5)
370	DN50	PN160	EN 1092-1	F316/F316L	Weld neck flange	Type B2	25.5 (648)	55.6 (25.2)
483	DN50	PN250	EN 1092-1	F316/F316L	Weld neck flange	Type B2	26.3 (668)	63.8 (28.9)

**CMF010H (nickel alloy C22)**

Code	Description						Dim A in (mm)	Weight lb (kg)
323	#4		VCO	N06022	Swagelok compatible fitting	1/4" N10276 NPT female adapter	6.4 (164)	16.4 (7.4)
334	#4		VCO	N06022	Swagelok compatible fitting		6.4 (164)	16.4 (7.4)
520	0.5 in	CL150	ASME B16.5	F304/F304L	Lap joint flange	N06022 stub	7.9 (199)	22.0 (10.0)
521	0.5 in	CL300	ASME B16.5	F304/F304L	Lap joint flange	N06022 stub	8.2 (209)	22.8 (10.4)
522	15 mm	10K	JIS B 2220	F304/F304L	Lap joint flange	N06022 stub	8.2 (208)	18.0 (8.1)
523	DN15	PN40	DIN 2656	F304/F304L	Lap joint flange	Form C face, N06022 stub	9.4 (240)	18.4 (8.3)
524	DN15	PN40	EN 1092-1	F304/F304L	Lap joint flange	Type B1, N06022 stub	9.4 (240)	18.2 (8.3)

**CMF010L (304L stainless steel)**

Code	Description						Dim A in (mm)	Weight lb (kg)
413	0.5 in	CL150	ASME B16.5	F304/F304L	Weld neck flange	Raised face	7.9 (199)	16.6 (7.6)
414	0.5 in	CL300	ASME B16.5	F304/F304L	Weld neck flange	Raised face	8.2 (209)	16.6 (7.6)
421	DN15	PN40	EN 1092-1	F304/F304L	Weld neck flange	Type B1	7.4 (189)	17.8 (8.1)
423	DN15	PN40	DIN 2526	F304/F304L	Weld neck flange	Form C face	7.4 (189)	18.4 (8.3)

## CMF010M (316L stainless steel)

Code	Description						Dim A in (mm)	Weight lb (kg)
172	DN25	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	7.6 (193)	20.2 (9.2)
176	DN15	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	7.4 (189)	17.8 (8.1)
177	DN15	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type B2	8 (203)	19.8 (9.0)
178	DN15	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type D	8 (203)	19.6 (8.9)
183	DN25	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type D	7.6 (193)	20.0 (9.1)
300	DN15	PN40	DIN 3625	F316/F316L	Weld neck flange	Form C face	7.4 (189)	17.7 (8.0)
302	DN15	PN100	DIN 3637	F316/F316L	Weld neck flange	Form E face	8.0 (203)	19.6 (8.9)
304	15 mm	10K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	7.2 (183)	17.6 (8.0)
305	15 mm	20K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	7.2 (183)	17.5 (7.9)
310	DN15	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type D	7.4 (189)	17.8 (8.1)
313	0.5 in	CL150	ASME B16.5	F316/F316L	Weld neck flange	Raised face	7.9 (199)	16.6 (7.6)
314	0.5 in	CL300	ASME B16.5	F316/F316L	Weld neck flange	Raised face	8.2 (209)	17.8 (8.1)
315	0.5 in	CL600	ASME B16.5	F316/F316L	Weld neck flange	Raised face	8.7 (221)	18.1 (8.2)
321 <sup>(1)</sup>	0.5 in		Tri-Clamp compatible	316L	Hygienic fitting		6.9 (177)	14.5 (6.6)
323	#4		VCO	316/316L	Swagelok compatible fitting	1/4" NPT female adapter	6.4 (164)	16.4 (7.4)
324	#4		VCO	316/316L	Swagelok compatible fitting	1/4" tube compression fitting adapter	6.4 (164)	16.4 (7.4)
325	#4		VCO	316/316L	Swagelok compatible fitting	6mm tube compression fitting adapter	6.4 (164)	16.4 (7.4)
334	#4		VCO	316/316L	Swagelok compatible fitting		6.4 (164)	16.4 (7.4)

(1) Sensor is 3A authorized but not EHEDG certified when ordered with this fitting code.

## CMF010P (high pressure)

Code	Description						Dim A in (mm)	Weight lb (kg)
323	#4		VCO	316/316L	Swagelok compatible fitting	1/4" NPT female adapter	6.4 (164)	16.4 (7.4)

Code	Description						Dim A in (mm)	Weight lb (kg)
324	#4		VCO	316/316L	Swagelok compatible fitting	1/4" tube compression fitting adapter	6.4 (164)	16.4 (7.4)
325	#4		VCO	316/316L	Swagelok compatible fitting	6mm tube compression fitting adapter	6.4 (164)	16.4 (7.4)
334	#4		VCO	316/316L	Swagelok compatible fitting		6.4 (164)	16.4 (7.4)

**CMF025H (nickel alloy C22)**

Code	Description						Dim A in (mm)	Weight lb (kg)
520	0.5 in	CL150	ASME B16.5	F304/F304L	Lap joint flange	N06022 stub	6.8 (172)	14.7 (6.7)
521	0.5 in	CL300	ASME B16.5	F304/F304L	Lap joint flange	N06022 stub	7.1 (181)	15.5 (7.0)
522	15 mm	10K	JIS B 2220	F304/F304L	Lap joint flange	N06022 stub	7.1 (181)	10.6 (4.8)
523	DN15	PN40	DIN 2656	F304/F304L	Lap joint flange	Form C face, N06022 stub	7.3 (186)	11.1 (5.0)
524	DN15	PN40	EN 1092-1	F304/F304L	Lap joint flange	Type B1, N06022 stub	7.3 (186)	10.9 (4.9)

**CMF025M (316L stainless steel)**

Code	Description						Dim A in (mm)	Weight lb (kg)
172	DN25	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	6.4 (164)	12.9 (5.8)
176	DN15	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	6.3 (160)	10.5 (4.7)
177	DN15	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type B2	6.9 (176)	12.5 (5.7)
178	DN15	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type D	6.9 (176)	12.3 (5.6)
183	DN25	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type D	6.4 (164)	12.7 (5.7)
300	DN15	PN40	DIN 2635	F316/F316L	Weld neck flange	Form C face	6.3 (160)	10.4 (4.7)
301	DN15	PN40	DIN 2635	F316/F316L	Weld neck flange	Form N grooved face	6.3 (160)	10.2 (4.6)
302	DN15	PN100	DIN 2637	F316/F316L	Weld neck flange	Form E face	6.9 (176)	12.3 (5.6)
303	DN15	PN100	DIN 2637	F316/F316L	Weld neck flange	Form N grooved face	6.9 (176)	12.5 (5.7)
304	15 mm	10K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	6.1 (156)	10.3 (4.7)



Code	Description						Dim A in (mm)	Weight lb (kg)
305	15 mm	20K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	6.1 (156)	10.2 (4.6)
310	DN15	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type D	6.3 (160)	10.5 (4.7)
313	0.5 in	CL150	ASME B16.5	F316/F316L	Weld neck flange	Raised face	6.8 (172)	9.3 (4.2)
314	0.5 in	CL300	ASME B16.5	F316/F316L	Weld neck flange	Raised face	7.1 (181)	10.5 (4.8)
315	0.5 in	CL600	ASME B16.5	F316/F316L	Weld neck flange	Raised face	7.6 (194)	10.8 (4.9)
319	#8		VCO	316/316L	Swagelok compatible fitting	1/2" NPT female adapter	4.8 (122)	11.1 (5.0)
321	0.5 in		Tri-Clamp compatible	316L	Hygienic fitting		4.7 (119)	7.2 (3.3)
335	#8		VCO	316/316L	Swagelok compatible fitting		4.8 (122)	7.5 (3.4)

**CMF025L (304L stainless steel)**

Code	Description						Dim A in (mm)	Weight lb (kg)
413	0.5 in	CL150	ASME B16.5	F304/F304L	Weld neck flange	Raised face	6.8 (172)	9.3 (4.2)
414	0.5 in	CL300	ASME B16.5	F304/F304L	Weld neck flange	Raised face	7.1 (181)	9.3 (4.2)
421	DN15	PN40	EN 1092-1	F304/F304L	Weld neck flange	Type B1	6.3 (160)	10.5 (4.7)
423	DN15	PN40	DIN 2526	F304/F304L	Weld neck flange	Form C face	6.3 (160)	11.1 (5.0)

**CMF050H (nickel alloy C22)**

Code	Description						Dim A in (mm)	Weight lb (kg)
520	0.5 in	CL150	ASME B16.5	F304/F304L	Lap joint flange	N06022 stub	7.9 (202)	19.5 (8.9)
521	0.5 in	CL300	ASME B16.5	F304/F304L	Lap joint flange	N06022 stub	8.3 (211)	20.3 (9.2)
522	15 mm	10K	JIS B 2220	F304/F304L	Lap joint flange	N06022 stub	8.3 (210)	15.5 (7.0)
523	DN15	PN40	DIN 2656	F304/F304L	Lap joint flange	Form C face, N06022 stub	8.5 (216)	15.9 (7.2)
524	DN15	PN40	EN 1092-1	F304/F304L	Lap joint flange	Type B1, N06022 stub	8.5 (216)	15.7 (7.1)

**CMF050M (316L stainless steel)**

Code	Description						Dim A in (mm)	Weight lb (kg)
172	DN25	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	7.7 (195)	17.7 (8.0)

Code	Description						Dim A in (mm)	Weight lb (kg)
176	DN15	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	7.5 (191)	15.3 (6.9)
177	DN15	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type B2	8.1 (205)	17.3 (7.8)
178	DN15	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type D	8.1 (205)	17.1 (7.7)
183	DN25	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type D	7.7 (195)	17.5 (7.9)
300	DN15	PN40	DIN 2635	F316/F316L	Weld neck flange	Form C face	7.5 (191)	15.2 (6.9)
301	DN15	PN40	DIN 2635	F316/F316L	Weld neck flange	Form N grooved face	7.5 (205)	15.0 (6.8)
302	DN15	PN100	DIN 2637	F316/F316L	Weld neck flange	Form E face	8.1 (205)	17.1 (7.1)
303	DN15	PN100	DIN 2637	F316/F316L	Weld neck flange	Form N grooved face	8.1 (205)	17.3 (7.8)
304	15 mm	10K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	7.3 (184)	15.1 (6.8)
305	15 mm	20K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	7.3 (184)	15.0 (6.8)
310	DN15	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type D	7.5 (191)	15.3 (6.9)
313	0.5 in	CL150	ASME B16.5	F316/F316L	Weld neck flange	Raised face	7.9 (202)	14.1 (6.4)
314	0.5 in	CL300	ASME B16.5	F316/F316L	Weld neck flange	Raised face	8.3 (211)	15.3 (7.0)
315	0.5 in	CL600	ASME B16.5	F316/F316L	Weld neck flange	Raised face	8.8 (224)	15.6 (7.1)
319	#8		VCO	316/316L	Swagelok compatible fitting	1/2" NPT female adapter	6.9 (176)	15.9 (7.2)
320	#12		VCO	316/316L	Swagelok compatible fitting	3/4" NPT female adapter	6.5 (165)	12.7 (5.7)
322	0.75 in		Tri-Clamp compatible	316L	Hygienic fitting		6.5 (165)	12.0 (5.4)
336	#12		VCO	316/316L	Swagelok compatible fitting		6.5 (165)	12.7 (5.7)

**CMF050L (304L stainless steel)**

Code	Description						Dim A in (mm)	Weight lb (kg)
413	0.5 in	CL150	ASME B16.5	F304/F304L	Weld neck flange	Raised face	7.9 (202)	14.1 (6.4)
414	0.5 in	CL300	ASME B16.5	F304/F304L	Weld neck flange	Raised face	8.3 (211)	14.1 (6.4)
421	DN15	PN40	EN 1092-1	F304/F304L	Weld neck flange	Type B1	7.5 (191)	15.3 (6.9)

Code	Description						Dim A in (mm)	Weight lb (kg)
423	DN15	PN40	DIN 2526	F304/F304L	Weld neck flange	Form C face	7.5 (191)	15.9 (7.2)

**CMF100H (nickel alloy C22)**

Code	Description						Dim A in (mm)	Weight lb (kg)
530	1 in	CL150	ASME B16.5	F304/F304L	Lap joint flange	N06022 stub	9.3 (235)	31.9 (14.5)
531	1 in	CL300	ASME B16.5	F304/F304L	Lap joint flange	N06022 stub	9.8 (248)	35.1 (15.9)
532	25 mm	10K	JIS B 2220	F304/F304L	Lap joint flange	N06022 stub	9.3 (237)	36.5 (16.5)
533	DN25	PN40	DIN 2656	F304/F304L	Lap joint flange	Form C face, N06022 stub	9.6 (243)	34.8 (15.8)
534	DN25	PN40	EN 1092-1	F304/F304L	Lap joint flange	Type B1, N06022 stub	9.6 (243)	34.3 (15.5)

**CMF100L (304L stainless steel)**

Code	Description						Dim A in (mm)	Weight lb (kg)
415	1 in	CL150	ASME B16.5	F304/F304L	Weld neck flange	Raised face	9.3 (235)	33.1 (15.0)
416	1 in	CL300	ASME B16.5	F304/F304L	Weld neck flange	Raised face	9.8 (248)	33.1 (15.0)
422	DN25	PN40	EN 1092-1	F304/F304L	Weld neck flange	Type B1	8.6 (217)	32.9 (14.9)
424	DN25	PN40	DIN 2526	F304/F304L	Weld neck flange	Form C face	8.6 (217)	33.1 (15.0)

**CMF100M (316L stainless steel)**

Code	Description						Dim A in (mm)	Weight lb (kg)
179	DN25	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	8.3 (211)	32.9 (14.9)
180	DN25	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type B2	9.7 (246)	38.9 (17.6)
181	DN25	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type D	9.7 (246)	38.7 (17.5)
306	DN25	PN40	DIN 2635	F316/F316L	Weld neck flange	Form C face	8.3 (211)	32.8 (14.9)
307	DN25	PN40	DIN 2635	F316/F316L	Weld neck flange	Form N grooved face	8.3 (211)	32.7 (14.9)
308	DN25	PN100	DIN 2637	F316/F316L	Weld neck flange	Form E face	9.7 (246)	38.8 (17.6)
309	DN25	PN100	DIN 2637	F316/F316L	Weld neck flange	Form N grooved face	9.7 (246)	38.7 (17.6)

Code	Description						Dim A in (mm)	Weight lb (kg)
311	DN25	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type D	8.3 (211)	32.7 (14.8)
317	25 mm	10K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	8.3 (211)	32.6 (14.8)
318	25 mm	20K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	8.3 (211)	33.1 (15.0)
328	1 in	CL150	ASME B16.5	F316/F316L	Weld neck flange	Raised face	9.3 (235)	31.5 (14.3)
329	1 in	CL300	ASME B16.5	F316/F316L	Weld neck flange	Raised face	9.8 (248)	34.5 (15.6)
330	1 in	CL600	ASME B16.5	F316/F316L	Weld neck flange	Raised face	10.3 (260)	34.9 (15.8)
331	1.5 in	CL600	ASME B16.5	F316/F316L	Weld neck flange	Raised face	10.9 (276)	41.6 (18.9)
339	1 in		Tri-Clamp compatible	316L	Hygienic fitting		8.4 (213)	27.7 (12.6)

**CMF200A (high temperature 316L stainless steel)**

Code	Description						Dim A in (mm)	Weight lb (kg)
312	DN40	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type D	21.6 (547)	77.7 (35.2)
316	DN50	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type D	21.8 (553)	80.9 (36.7)
341	1.5 in	CL150	ASME B16.5	F316/F316L	Weld neck flange	Raised face	22.9 (581)	76.3 (34.6)
342	1.5 in	CL300	ASME B16.5	F316/F316L	Weld neck flange	Raised face	23.4 (594)	82.3 (37.3)
363	DN40	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type B2	22.9 (580)	86.3 (39.1)
365	DN50	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type B2	23.4 (594)	95 (43.1)
366	DN40	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type D	23.3 (593)	86.3 (39.1)
367	DN50	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type D	22.9 (59803)	84.3 (42.8)
368	DN40	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	21.6 (547)	77.7 (35.2)
369	DN50	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	21.8 (553)	81.1 (36.8)
377	DN40	PN100	DIN 2637	F316/F316L	Weld neck flange	Form E face	23.1 (587)	86.4 (39.2)
378	DN50	PN100	DIN 2637	F316/F316L	Weld neck flange	Form E face	23.6 (598)	94.4 (42.8)
379	DN40	PN100	DIN 2637	F316/F316L	Weld neck flange	Form N grooved face	23.1 (587)	86.2 (39.1)

Code	Description						Dim A in (mm)	Weight lb (kg)
380	DN50	PN100	DIN 2637	F316/F316L	Weld neck flange	Form N grooved face	23.6 (598)	94.2 (42.7)
381	DN40	PN40	DIN 2635	F316/F316L	Weld neck flange	Form C face	21.7 (551)	77.9 (35.3)
382	DN50	PN40	DIN 2635	F316/F316L	Weld neck flange	Form C face	21.9 (557)	81.2 (36.9)
383	DN40	PN40	DIN 2635	F316/F316L	Weld neck flange	Form N grooved face	21.7 (551)	77.7 (35.2)
384	DN50	PN40	DIN 2635	F316/F316L	Weld neck flange	Form N grooved face	21.9 (557)	81.1 (36.8)
385	40 mm	10K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	21.6 (548)	76.5 (34.7)
386	50 mm	10K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	21.8 (554)	79.0 (35.8)
387	40 mm	20K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	21.6 (548)	76.7 (34.8)
388	50 mm	20K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	21.8 (554)	79.0 (35.8)
418	2 in	CL150	ASME B16.5	F316/F316L	Weld neck flange	Raised face	22.9 (581)	79.9 (36.2)
419	2 in	CL300	ASME B16.5	F316/F316L	Weld neck flange	Raised face	23.4 (594)	84.7 (38.4)
420	2 in	CL600	ASME B16.5	F316/F316L	Weld neck flange	Raised face	23.6 (600)	87.1 (39.5)

**CMF200B (high temperature nickel alloy C22)**

Code	Description						Dim A in (mm)	Weight lb (kg)
537	1.5 in	CL600	ASME B16.5	F304/F304L	Lap joint flange	N06022 stub	23.4 (594)	85.0 (38.6)
540	1.5 in	CL150	ASME B16.5	F304/F304L	Lap joint flange	N06022 stub	22.9 (581)	76.5 (34.7)
541	1.5 in	CL300	ASME B16.5	F304/F304L	Lap joint flange	N06022 stub	23.4 (594)	82.3 (37.3)
542	40 mm	10K	JIS B 2220	F304/F304L	Lap joint flange	N06022 stub	21.6 (548)	82.3 (37.3)
543	DN40	PN40	DIN 2656	F304/F304L	Lap joint flange	Form C face, N06022 stub	21.7 (551)	71.7 (32.5)
544	2 in	CL150	ASME B16.5	F304/F304L	Lap joint flange	N06022 stub	22.9 (581)	81.5 (37.0)
545	2 in	CL300	ASME B16.5	F304/F304L	Lap joint flange	N06022 stub	23.4 (594)	85.7 (38.9)
546	50 mm	10K	JIS B 2220	F304/F304L	Lap joint flange	N06022 stub	21.8 (554)	85.0 (38.5)
546	50 mm	10K	JIS B 2220	F304/F304L	Lap joint flange	N06022 stub	21.8 (554)	85.0 (38.5)

Code	Description						Dim A in (mm)	Weight lb (kg)
547	DN50	PN40	DIN 2656	F304/F304L	Lap joint flange	Form C face, N06022 stub	21.9 (557)	85.7 (38.9)
548	DN40	PN40	EN 1092-1	F304/F304L	Lap joint flange	Type B1, N06022 stub	21.7 (551)	80.6 (36.6)
549	DN50	PN40	EN 1092-1	F304/F304L	Lap joint flange	Type B1, N06022 stub	21.9 (557)	85.7 (38.9)

**CMF200H (standard temperature nickel alloy C22)**

Code	Description						Dim A in (mm)	Weight lb (kg)
537	1.5 in	CL600	ASME B16.5	F304/F304L	Lap joint flange	N06022 stub	23.4 (594)	85.0 (38.6)
540	1.5 in	CL150	ASME B16.5	F304/F304L	Lap joint flange	N06022 stub	22.9 (581)	66.5 (30.2)
541	1.5 in	CL300	ASME B16.5	F304/F304L	Lap joint flange	N06022 stub	23.4 (594)	72.3 (32.8)
542	40 mm	10K	JIS B 2220	F304/F304L	Lap joint flange	N06022 stub	21.6 (548)	72.3 (32.8)
543	DN40	PN40	DIN 2656	F304/F304L	Lap joint flange	Form C face, N06022 stub	21.7 (551)	61.7 (28.0)
544	2 in	CL150	ASME B16.5	F304/F304L	Lap joint flange	N06022 stub	22.9 (581)	71.5 (32.4)
545	2 in	CL300	ASME B16.5	F304/F304L	Lap joint flange	N06022 stub	23.4 (594)	75.7 (34.3)
546	50 mm	10K	JIS B 2220	F304/F304L	Lap joint flange	N06022 stub	21.8 (554)	75.0 (34.0)
547	DN50	PN40	DIN 2656	F304/F304L	Lap joint flange	Form C face, N06022 stub	21.9 (557)	75.7 (34.3)
548	DN40	PN40	EN 1092-1	F304/F304L	Lap joint flange	Type B1, N06022 stub	21.7 (551)	70.6 (32.0)
549	DN50	PN40	EN 1092-1	F304/F304L	Lap joint flange	Type B1, N06022 stub	21.9 (557)	75.7 (34.3)

**CMF200L (304L stainless steel)**

Code	Description						Dim A in (mm)	Weight lb (kg)
441	1.5 in	CL150	ASME B16.5	F304/F304L	Weld neck flange	Raised face	22.9 (581)	72.1 (32.7)
442	1.5 in	CL300	ASME B16.5	F304/F304L	Weld neck flange	Raised face	23.4 (594)	66.3 (30.1)
457	DN40	PN40	EN 1092-1	F304/F304L	Weld neck flange	Type B1	21.5 (546)	67.7 (30.7)
458	DN50	PN40	EN 1092-1	F304/F304L	Weld neck flange	Type B1	21.8 (553)	66.3 (30.1)
481	DN40	PN40	DIN 2526	F304/F304L	Weld neck flange	Form C face	21.7 (551)	67.7 (30.7)

Code	Description						Dim A in (mm)	Weight lb (kg)
482	DN50	PN40	DIN 2526	F304/F304L	Weld neck flange	Form C face	21.9 (557)	71.1 (32.2)
518	2 in	CL150	ASME B16.5	F304/F304L	Weld neck flange	Raised face	22.9 (581)	69.9 (31.7)
519	2 in	CL300	ASME B16.5	F304/F304L	Weld neck flange	Raised face	23.5 (597)	74.7 (33.9)

**CMF200M (standard temperature 316L stainless steel)**

Code	Description						Dim A in (mm)	Weight lb (kg)
312	DN40	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type D	21.6 (547)	67.7 (30.7)
316	DN50	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type D	21.9 (556)	70.9 (32.2)
341	1.5 in	CL150	ASME B16.5	F316/F316L	Weld neck flange	Raised face	22.9 (581)	66.3 (30.1)
342	1.5 in	CL300	ASME B16.5	F316/F316L	Weld neck flange	Raised face	23.4 (594)	72.3 (32.8)
343	1.5 in	CL600	ASME B16.5	F316/F316L	Weld neck flange	Raised face	23.9 (606)	74.9 (34.0)
351	1.5 in		Tri-Clamp compatible	316L	Hygienic fitting		21.4 (543)	59.1 (26.8)
352	2 in		Tri-Clamp compatible	316L	Hygienic fitting		21.4 (543)	59.3 (26.9)
363	DN40	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type B2	22.9 (580)	76.3 (34.6)
366	DN40	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type D	22.9 (582)	76.3 (34.6)
367	DN50	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type D	23.4 (594)	84.3 (38.2)
368	DN40	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	21.5 (546)	67.7 (30.7)
369	DN50	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	21.8 (553)	71.1 (32.2)
377	DN40	PN100	DIN 2637	F316/F316L	Weld neck flange	Form E Face	23.1 (587)	76.4 (34.7)
378	DN50	PN100	DIN 2637	F316/F316L	Weld neck flange	Form E Face	23.6 (598)	84.4 (38.3)
379	DN40	PN100	DIN 2637	F316/F316L	Weld neck flange	Form N grooved face	23.1 (587)	76.2 (34.6)
380	DN50	PN100	DIN 2637	F316/F316L	Weld neck flange	Form N grooved face	23.6 (598)	84.2 (38.2)
381	DN40	PN40	DIN 2635	F316/F316L	Weld neck flange	Form C face	21.7 (551)	67.9 (30.8)
382	DN50	PN40	DIN 2635	F316/F316L	Weld neck flange	Form C face	21.9 (557)	71.2 (32.3)

Code	Description						Dim A in (mm)	Weight lb (kg)
383	DN40	PN40	DIN 2635	F316/F316L	Weld neck flange	Form N grooved face	21.7 (551)	67.7 (30.7)
384	DN50	PN40	DIN 2635	F316/F316L	Weld neck flange	Form N grooved face	21.9 (557)	71.1 (32.2)
385	40 mm	10K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	21.6 (548)	66.5 (30.2)
386	50 mm	10K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	21.8 (554)	79.0 (35.8)
387	40 mm	20K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	21.6 (548)	66.7 (30.3)
388	50 mm	20K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	21.8 (554)	79.0 (35.8)
418	2 in	CL150	ASME B16.5	F316/F316L	Weld neck flange	Raised face	22.9 (581)	69.9 (31.7)
419	2 in	CL300	ASME B16.5	F316/F316L	Weld neck flange	Raised face	23.4 (594)	74.7 (33.9)
420	2 in	CL600	ASME B16.5	F316/F316L	Weld neck flange	Raised face	23.6 (600)	77.1 (35.0)

**CMF300A (high temperature 316L stainless steel)**

Code	Description						Dim A in (mm)	Weight lb (kg)
326	DN80	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type D	32.8 (832)	159.7 (72.4)
333	DN100	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type D	33.3 (845)	187.7 (85.1)
355	3 in	CL150	ASME B16.5	F316/F316L	Weld neck flange	Raised face	33.7 (856)	188.9 (85.7)
356	3 in	CL300	ASME B16.5	F316/F316L	Weld neck flange	Raised face	34.4 (875)	188.7 (85.6)
357	3 in	CL600	ASME B16.5	F316/F316L	Weld neck flange	Raised face	35.2 (894)	195.5 (88.7)
358	3 in	CL900	ASME B16.5	F316/F316L	Weld neck flange	Raised face	36.8 (933)	200 (90.7)
359	DN100	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type D	35.3 (896)	217.7 (98.7)
371	DN80	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	32.8 (832)	179.7 (81.5)
372	DN100	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	33.3 (845)	167.7 (76.1)
373	DN80	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type B2	34.3 (872)	197.7 (89.7)
374	DN100	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type B2	35.3 (896)	219.7 (99.6)
375	DN80	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type D	34.3 (872)	195.7 (88.8)



Code	Description						Dim A in (mm)	Weight lb (kg)
391	DN80	PN40	DIN 2635	F316/F316L	Weld neck flange	Form C face	32.9 (835)	158.3 (71.8)
392	DN100	PN40	DIN 2635	F316/F316L	Weld neck flange	Form C face	33.3 (845)	168.0 (76.2)
393	DN80	PN40	DIN 2635	F316/F316L	Weld neck flange	Form N grooved face	32.9 (835)	179.1 (81.2)
394	DN100	PN40	DIN 2635	F316/F316L	Weld neck flange	Form N grooved face	33.3 (845)	187.5 (85.1)
395	DN80	PN100	DIN 2637	F316/F316L	Weld neck flange	Form E face	34.6 (878)	197.2 (89.4)
396	DN100	PN100	DIN 2637	F316/F316L	Weld neck flange	Form E face	35.6 (903)	217.3 (98.6)
397	DN80	PN100	DIN 2637	F316/F316L	Weld neck flange	Form N grooved face	34.6 (878)	196.9 (89.3)
398	DN100	PN100	DIN 2637	F316/F316L	Weld neck flange	Form N grooved face	35.6 (903)	216.8 (98.3)
400	80 mm	10K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	33.4 (848)	175.0 (79.4)
401	100 mm	10K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	36.6 (930)	180.0 (81.7)
402	80 mm	20K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	33.4 (848)	179.1 (81.2)
425	4 in	CL150	ASME B16.5	F316/F316L	Weld neck flange	Raised face	34.1 (865)	166.2 (75.4)
426	4 in	CL300	ASME B16.5	F316/F316L	Weld neck flange	Raised face	35 (889)	
427	4 in	CL600	ASME B16.5	F316/F316L	Weld neck flange	Raised face	36.7 (932)	233.3 (105.8)
428	4 in	CL900	ASME B16.5	F316/F316L	Weld neck flange	Raised face	37.2 (945)	261.7 (118.7)

**CMF300B (high temperature nickel alloy C22)**

Code	Description						Dim A in (mm)	Weight lb (kg)
539	3 in	CL600	ASME B16.5	F316/F316L	Lap joint flange	N06022 stub	34.4 (874)	189.0 (85.7)
550	3 in	CL150	ASME B16.5	F304/F304L	Lap joint flange	N06022 stub	33.7 (856)	180.9 (82.0)
551	3 in	CL300	ASME B16.5	F304/F304L	Lap joint flange	N06022 stub	34.4 (875)	188.7 (85.6)
552	80 mm	10K	JIS B 2220	F304/F304L	Lap joint flange	N06022 stub	33.4 (848)	175.0 (79.4)
553	DN80	PN40	DIN 2656	F304/F304L	Lap joint flange	Form C face, N06022 stub	32.9 (835)	179.7 (81.5)
554	DN80	PN40	EN 1092-1	F304/F304L	Lap joint flange	Type B1, N06022 stub	32.9 (835)	166.7 (75.6)

**CMF300H (standard temperature nickel alloy C22)**

Code	Description						Dim A in (mm)	Weight lb (kg)
550	3 in	CL150	ASME B16.5	F304/F304L	Lap joint flange	N06022 stub	33.7 (856)	170.9 (77.5)
551	3 in	CL300	ASME B16.5	F304/F304L	Lap joint flange	N06022 stub	34.4 (875)	178.7 (81.0)
552	80 mm	10K	JIS B 2220	F304/F304L	Lap joint flange	N06022 stub	33.4 (848)	165.0 (74.9)
553	DN80	PN40	DIN 2656	F304/F304L	Lap joint flange	Form C face, N06022 stub	32.9 (835)	169.7 (77.0)
554	DN80	PN40	EN 1092-1	F304/F304L	Lap joint flange	Type B1, N06022 stub	32.9 (835)	156.7 (71.1)

**CMF300L (304L stainless steel)**

Code	Description						Dim A in (mm)	Weight lb (kg)
455	3 in	CL150	ASME B16.5	F304/F304L	Weld neck flange	Raised face	33.7 (856)	170.9 (77.5)
456	3 in	CL300	ASME B16.5	F304/F304L	Weld neck flange	Raised face	34.4 (875)	178.7 (81.0)
459	DN80	PN40	EN 1092-1	F304/F304L	Weld neck flange	Type B1	32.8 (832)	169.7 (77.0)
491	DN80	PN40	DIN 2526	F304/F304L	Weld neck flange	Form C face	32.9 (835)	170.3 (77.2)

**CMF300M (standard temperature 316L stainless steel)**

Code	Description						Dim A in (mm)	Weight lb (kg)
326	DN80	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type D	32.8 (832)	149.7 (67.9)
333	DN100	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type D	33.3 (845)	177.7 (80.6)
355	3 in	CL150	ASME B16.5	F316/F316L	Weld neck flange	Raised face	33.7 (856)	178.9 (81.2)
356	3 in	CL300	ASME B16.5	F316/F316L	Weld neck flange	Raised face	34.4 (875)	178.7 (81.0)
357	3 in	CL600	ASME B16.5	F316/F316L	Weld neck flange	Raised face	35.2 (894)	185.5 (84.1)
358	3 in	CL900	ASME B16.5	F316/F316L	Weld neck flange	Raised face	36.7 11/16 (932)	185.5 (84.1)
359	DN100	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type D	35.3 (896)	207.7 (94.2)
361	3 in		Tri-Clamp compatible	316L	Hygienic fitting		32 (813)	
371	DN80	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	32.8 (832)	169.7 (77.0)

Code	Description						Dim A in (mm)	Weight lb (kg)
372	DN100	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	33.3 (845)	157.7 (71.5)
373	DN80	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type B2	34.3 (872)	187.7 (85.1)
374	DN100	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type B2	35.3 (896)	209.7 (95.1)
375	DN80	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type D	34.3 (872)	185.7 (84.2)
391	DN80	PN40	DIN 2635	F316/F316L	Weld neck flange	Form C face	32.9 (835)	148.3 (67.3)
392	DN100	PN40	DIN 2635	F316/F316L	Weld neck flange	Form C face	33.3 (845)	158.0 (71.7)
393	DN80	PN40	DIN 2635	F316/F316L	Weld neck flange	Form N grooved face	32.9 (835)	169.1 (76.7)
394	DN100	PN40	DIN 2635	F316/F316L	Weld neck flange	Form N grooved face	33.3 (845)	177.5 (80.5)
395	DN80	PN100	DIN 2637	F316/F316L	Weld neck flange	Form E face	34.6 (878)	187.2 (84.9)
396	DN100	PN100	DIN 2637	F316/F316L	Weld neck flange	Form E face	35.6 (903)	207.3 (94.0)
397	DN80	PN100	DIN 2637	F316/F316L	Weld neck flange	Form N grooved face	34.6 (878)	186.9 (84.8)
398	DN100	PN100	DIN 2637	F316/F316L	Weld neck flange	Form N grooved face	35.6 (903)	206.8 (93.8)
400	80 mm	10K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	33.4 (848)	165.0 (74.9)
401	100 mm	10K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	33.6 (853)	170.0 (77.1)
402	80 mm	20K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	33.4 (848)	169.1 (76.7)
425	4 in	CL150	ASME B16.5	F316/F316L	Weld neck flange	Raised face	34.1 (865)	156.2 (70.8)
426	4 in	CL300	ASME B16.5	F316/F316L	Weld neck flange	Raised face	35 (889)	
427	4 in	CL600	ASME B16.5	F316/F316L	Weld neck flange	Raised face	36.7 (932)	223.3 (101.3)
428	4 in	CL900	ASME B16.5	F316/F316L	Weld neck flange	Raised face	37.2 (945)	251.7 (114.2)

**CMF350A (high temperature 316L stainless steel)**

Code	Description						Dim A in (mm)	Weight lb (kg)
435	4 in	CL150	ASME B16.5	F316/F316L	Weld neck flange	Raised face	37.2 (945)	251.1 (113.9)
436	4 in	CL300	ASME B16.5	F316/F316L	Weld neck flange	Raised face	38.0 (965)	270.8 (122.8)
437	4 in	CL600	ASME B16.5	F316/F316L	Weld neck flange	Raised face	39.7 (1008)	295.7 (134.1)

Code	Description						Dim A in (mm)	Weight lb (kg)
443 <sup>(1)</sup>	DN100	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	36.4 (923)	250.3 (113.5)
445 <sup>(1)</sup>	DN100	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type B2	38.3 (973)	278.3 (126.2)
447 <sup>(1)</sup>	DN100	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type D	38.3 (973)	278.3 (126.2)
470	100 mm	10K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	36.4 (923)	240.1 (108.9)
472	100 mm	20K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	36.8 (936)	248.1 (112.5)
480	DN100	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type D	36.4 (923)	248.3 (112.6)

(1) Not available with approval code T or J.

**CMF350M (316L stainless steel)**

Code	Description						Dim A in (mm)	Weight lb (kg)
435	4 in	CL150	ASME B16.5	F316/F316L	Weld neck flange	Raised face	37.2 (945)	241.1 (109.6)
436	4 in	CL300	ASME B16.5	F316/F316L	Weld neck flange	Raised face	38.0 (965)	260.8 (118.5)
437	4 in	CL600	ASME B16.5	F316/F316L	Weld neck flange	Raised face	39.7 (1008)	285.7 (129.9)
443 <sup>(1)</sup>	DN100	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	36.4 (923)	240.3 (109.2)
445 <sup>(1)</sup>	DN100	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type B2	38.3 (973)	268.3 (121.9)
447 <sup>(1)</sup>	DN100	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type D	38.3 (973)	268.3 (121.9)
470	100 mm	10K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	36.4 (923)	230.1 (104.6)
472	100 mm	20K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	36.8 (936)	238.1 (108.2)
480	DN100	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type D	36.4 (923)	238.3 (108.3)

(1) Not available with approval code T or J.

**CMF350P (high pressure)**

Code	Description						Dim A in (mm)	Weight lb (kg)
437	4 in	CL600	ASME B16.5	F316/F316L	Weld neck flange	Raised face	39.7 (1008)	289 (131)
438	4 in	CL900	ASME B16.5	F316/F316L	Weld neck flange	Raised face	40.7	314 (142)
445	DN100	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type B2	38.3	272 (123)

Code	Description						Dim A in (mm)	Weight lb (kg)
447	DN100	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type D	38.3	272 (123)
468	DN100	PN160	EN 1092-1	F316/F316L	Weld neck flange	Type B2	39.1	282 (128)
472	100 mm	20K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	36.8	242 (110)
562	4 in	CL600	ASME B16.5	A105 Carbon Steel	Lap joint flange	316/316L stub	40.7	288 (131)
563	4 in	CL900	ASME B16.5	A105 Carbon Steel	Lap joint flange	316/316L stub	40.7	310 (141)

**CMF400A (high temperature 316L stainless steel)**

Code	Description						Dim A in (mm)	Weight lb (kg)
435	4 in	CL150	ASME B16.5	F316/F316L	Weld neck flange	Raised face	40.2 (1021)	444.1 (201.5)
436	4 in	CL300	ASME B16.5	F316/F316L	Weld neck flange	Raised face	41 (1041)	463.8 (210.4)
437	4 in	CL600	ASME B16.5	F316/F316L	Weld neck flange	Raised face	42.7 (1084)	488.7 (221.7)
438 <sup>(1)</sup>	4 in	CL900	ASME B16.5	F316/F316L	Weld neck flange	Raised face	43.7 (1110)	517.3 (234.6)
439	4 in	CL1500	ASME B16.5	F316/F316L	Weld neck flange	Raised face	44.4 (1128)	548.3 (249)
443 <sup>(1)</sup>	DN100	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	39.3 (999)	443.3 (201.1)
444 <sup>(1)</sup>	DN150	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	40.1 (1018)	473.3 (214.7)
445 <sup>(1)</sup>	DN100	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type B2	41.3 (1049)	471.3 (213.8)
446 <sup>(1)</sup>	DN150	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type B2	43.3 (1099)	549.3 (249.1)
447 <sup>(1)</sup>	DN100	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type D	41.3 (1049)	471.3 (213.8)
448 <sup>(1)</sup>	DN150	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type D	43.3 (1099)	543.3 (246.4)
451	6 in	CL150	ASME B16.5	F316/F316L	Weld neck flange	Raised face	40.3 (1024)	458.5 (208.0)
452	6 in	CL300	ASME B16.5	F316/F316L	Weld neck flange	Raised face	41.3 (1049)	497.7 (225.7)
453	6 in	CL600	ASME B16.5	F316/F316L	Weld neck flange	Raised face	43.5 (1105)	562.0 (254.9)
460	DN100	PN40	DIN 2635	F316/F316L	Weld neck flange	Form C face	39.3 (999)	442.7 (200.8)
461	DN150	PN40	DIN 2635	F316/F316L	Weld neck flange	Form C face	39.6 (1006)	467.9 (212.2)

Code	Description						Dim A in (mm)	Weight lb (kg)
462	DN100	PN40	DIN 2635	F316/F316L	Weld neck flange	Form N grooved face	39.3 (999)	442.2 (200.6)
463	DN150	PN40	DIN 2635	F316/F316L	Weld neck flange	Form N grooved face	39.6 (1006)	467.2 (211.9)
464	DN100	PN100	DIN 2637	F316/F316L	Weld neck flange	Form E face	41.3 (1049)	471.3 (213.8)
465	DN150	PN100	DIN 2637	F316/F316L	Weld neck flange	Form E face	41.9 (1065)	533.4 (241.9)
466	DN100	PN100	DIN 2637	F316/F316L	Weld neck flange	Form N grooved face	41.3 (1049)	470.8 (213.5)
467	DN150	PN100	DIN 2637	F316/F316L	Weld neck flange	Form N grooved face	41.9 (1065)	532.7 (241.6)
470	100 mm	10K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	39.3 (999)	433.1 (196.4)
471	150 mm	10K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	39.6 (1006)	452.4 (205.2)
472	100 mm	20K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	39.8 (1011)	441.1 (200.1)
473	150 mm	20K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	40.1 (1019)	472.0 (214)
478	DN150	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type D	40.1 (1018)	473.3 (214.7)
480	DN100	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type D	39.3 (999)	441.3 (200.2)

(1) Not available with approval code T or J.

**CMF400B (high temperature nickel alloy C22)**

Code	Description						Dim A in (mm)	Weight lb (kg)
906	DN100	PN40	EN 1092-1	N06022	Weld neck flange	Type B1	39.3 (997)	445.3 (202.0)
908	DN100	PN100	EN 1092-1	F304/F304L	Lap joint flange	Type B2	41.2 (1047)	433.3 (196.5)
910	DN100	PN160	EN 1092-1	F304/F304L	Lap joint flange	Type B2	42 (1067)	436.3 (197.9)
911	4 in	CL150	ASME B16.5	N06022	Weld neck flange	Raised face	40.1 (1019)	446.3 (202.4)
912	4 in	CL300	ASME B16.5	N06022	Weld neck flange	Raised face	40.9 (1040)	466.3 (211.5)
913	4 in	CL600	ASME B16.5	N06022	Weld neck flange	Raised face	42.6 (1083)	493.8 (224.0)
914	4 in	CL900	ASME B16.5	N06022	Weld neck flange	Raised face	43.6 (1108)	525.3 (238.3)

**CMF400H (standard temperature nickel alloy C22)**

Code	Description						Dim A in (mm)	Weight lb (kg)
906	DN100	PN40	EN 1092-1	N06022	Weld neck flange	Type B1	39.3 (997)	443.3 (201.1)
908	DN100	PN100	EN 1092-1	F304/F304L	Lap joint flange	Type B2	41.2 (1047)	431.3 (195.6)
910	DN100	PN160	EN 1092-1	F304/F304L	Lap joint flange	Type B2	42 (1067)	434.3 (197.0)
911	4 in	CL150	ASME B16.5	N06022	Weld neck flange	Raised face	40.1 (1019)	446.3 (202.4)
912	4 in	CL300	ASME B16.5	N06022	Weld neck flange	Raised face	40.9 (1040)	464.3 (210.6)
913	4 in	CL600	ASME B16.5	N06022	Weld neck flange	Raised face	42.6 (1083)	491.8 (223.1)
914	4 in	CL900	ASME B16.5	N06022	Weld neck flange	Raised face	43.6 (1108)	523.3 (237.4)

**CMF400M (standard temperature 316L stainless steel)**

Code	Description						Dim A in (mm)	Weight lb (kg)
435	4 in	CL150	ASME B16.5	F316/F316L	Weld neck flange	Raised face	40.2 (1021)	442.1 (200.6)
436	4 in	CL300	ASME B16.5	F316/F316L	Weld neck flange	Raised face	41 (1041)	461.8 (209.5)
437	4 in	CL600	ASME B16.5	F316/F316L	Weld neck flange	Raised face	42.7 (1084)	486.7 (220.8)
438 <sup>(1)</sup>	4 in	CL900	ASME B16.5	F316/F316L	Weld neck flange	Raised face	43.7 (1110)	515.3 (233.7)
439	4 in	CL1500	ASME B16.5	F316/F316L	Weld neck flange	Raised face	44.4 (1128)	546.0 (247.6)
443 <sup>(1)</sup>	DN100	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	39.3 (999)	441.3 (200.2)
444 <sup>(1)</sup>	DN150	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	40.1 (1018)	471.3 (213.8)
445 <sup>(1)</sup>	DN100	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type B2	41.3 (1049)	469.3 (212.9)
446 <sup>(1)</sup>	DN150	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type B2	43.3 (1099)	547.3 (248.2)
447 <sup>(1)</sup>	DN100	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type D	41.3 (1049)	469.3 (212.9)
448 <sup>(1)</sup>	DN150	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type D	43.3 (1099)	541.3 (245.5)
451	6 in	CL150	ASME B16.5	F316/F316L	Weld neck flange	Raised face	40.3 (1024)	456.5 (207.1)
452	6 in	CL300	ASME B16.5	F316/F316L	Weld neck flange	Raised face	41.3 (1049)	495.7 (224.8)
453	6 in	CL600	ASME B16.5	F316/F316L	Weld neck flange	Raised face	43.5 (1105)	560.0 (254.0)

Code	Description						Dim A in (mm)	Weight lb (kg)
460	DN100	PN40	DIN 2635	F316/F316L	Weld neck flange	Form C face	39.3 (999)	440.7 (199.9)
461	DN150	PN40	DIN 2635	F316/F316L	Weld neck flange	Form C face	39.6 (1006)	465.9 (211.3)
462	DN100	PN40	DIN 2635	F316/F316L	Weld neck flange	Form N grooved face	39.3 (999)	440.2 (199.7)
463	DN150	PN40	DIN 2635	F316/F316L	Weld neck flange	Form N grooved face	39.6 (1006)	465.2 (211.0)
464	DN100	PN100	DIN 2637	F316/F316L	Weld neck flange	Form E face	41.3 (1049)	469.3 (212.9)
465	DN150	PN100	DIN 2637	F316/F316L	Weld neck flange	Form E face	41.9 (1065)	531.4 (241.0)
466	DN100	PN100	DIN 2637	F316/F316L	Weld neck flange	Form N grooved face	41.3 (1049)	468.8 (212.6)
467	DN150	PN100	DIN 2637	F316/F316L	Weld neck flange	Form N grooved face	41.9 (1065)	530.7 (240.7)
470	100 mm	10K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	39.3 (999)	431.1 (195.5)
471	150 mm	10K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	39.6 (1006)	450.4 (204.3)
472	100 mm	20K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	39.8 (1011)	439.1 (199.2)
478	DN150	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type D	40.1 (1018)	471.3 (213.8)
480	DN100	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type D	39.3 (999)	439.3 (199.3)

(1) Not available with approval code T or J.

**CMF400P (high pressure)**

Code	Description						Dim A in (mm)	Weight lb (kg)
437	4 in	CL600	ASME B16.5	F316/F316L	Weld neck flange	Raised face	42.7 (1084)	486.7 (220.8)
438 <sup>(1)</sup>	4 in	CL900	ASME B16.5	F316/F316L	Weld neck flange	Raised face	43.7 (1110)	515.3 (233.7)
439	4 in	CL1500	ASME B16.5	F316/F316L	Weld neck flange	Raised face	44.4 (1129)	545.3 (247.3)
445 <sup>(1)</sup>	DN100	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type B2	41.3 (1049)	469.3 (212.9)
446 <sup>(1)</sup>	DN150	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type B2	43.3 (1099)	547.3 (248.2)
447 <sup>(1)</sup>	DN100	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type D	41.3 (1049)	469.3 (212.9)
448 <sup>(1)</sup>	DN150	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type D	43.3 (1099)	541.3 (245.5)
453	6 in	CL600	ASME B16.5	F316/F316L	Weld neck flange	Raised face	43.5 (1105)	560.0 (254.0)



Code	Description						Dim A in (mm)	Weight lb (kg)
468	DN100	PN160	EN 1092-1	F316/F316L	Weld neck flange	Type B2	42.1 (1068)	531.3 (241.0)
472	100 mm	20K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	39.8 (1011)	439.1 (199.2)
473	150 mm	20K	JIS B 2220	F316/F316L	Weld neck flange	Raised face	40.1 (1018)	469.4 (212.9)
562	4 in	CL600	ASME B16.5	A105 Carbon Steel	Lap joint flange	316/316L stub	43.7 (1110)	571.3 (259.1)
563	4 in	CL900	ASME B16.5	A105 Carbon Steel	Lap joint flange	316/316L stub	43.7 (1110)	591.3 (268.2)

(1) Not available with approval code T or J.

### CMFHC2A and CMFHC2M (standard and high temperature 316L stainless steel)

Code	Description						Dim A in (mm)	Weight lb (kg)
451	6 in	CL150	ASME B16.5	F316/F316L	Weld neck flange	Raised face	42.8 (1087)	609.3 (276.4)
452	6 in	CL300	ASME B16.5	F316/F316L	Weld neck flange	Raised face	43.6 (1107)	647.3 (293.6)
453	6 in	CL600	ASME B16.5	F316/F316L	Weld neck flange	Raised face	45.6 (1157)	709.3 (321.7)
801	DN200	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	42.7 (1084)	667.3 (302.7)
802	DN200	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type B2	46.0 (1168)	789.3 (358.0)
803	DN200	PN160	EN 1092-1	F316/F316L	Weld neck flange	Type B2	46.8 (1188)	837.3 (379.8)
810	8 in	CL150	ASME B16.5	F316/F316L	Weld neck flange	Raised face	43.8 (1111)	637.3 (289.1)
811	8 in	CL300	ASME B16.5	F316/F316L	Weld neck flange	Raised face	44.5 (1131)	697.3 (316.3)
818	8 in	CL600	ASME B16.5	F316/F316L	Weld neck flange	Raised face	46.8 (1187)	801.3 (363.5)
819	8 in	CL900	ASME B16.5	F316/F316L	Weld neck flange	Raised face	49.0 (1245)	917.3 (416.1)
821	6 in	CL900	ASME B16.5	F316/F316L	Weld neck flange	Raised face	47.3 (1201)	767.3 (348.0)
822	DN150	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	41.7 (1059)	611.3 (277.3)
823	DN150	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type B2	44.9 (1139)	685.3 (310.8)
824	DN150	PN160	EN 1092-1	F316/F316L	Weld neck flange	Type B2	45.9 (1165)	709.3 (321.7)

**CMFHC2Y (super duplex UNS S32750)**

Code	Description						Dim A in (mm)	Weight lb (kg)
956	DN200	PN40	EN 1092-1	Super duplex	Weld neck flange	Type B1	42.7 (1084)	663.3 (300.9)
957	DN200	PN100	EN 1092-1	Super duplex	Weld neck flange	Type B2	46.0 (1168)	789.3 (358.0)
958	DN200	PN160	EN 1092-1	Super duplex	Weld neck flange	Type B2	46.8 (1188)	833.3 (378.0)
959	DN150	PN40	EN 1092-1	Super duplex	Weld neck flange	Type B1	41.7 (1059)	613.3 (278.2)
960	DN150	PN100	EN 1092-1	Super duplex	Weld neck flange	Type B2	44.9 (1139)	685.3 (310.8)
961	DN150	PN160	EN 1092-1	Super duplex	Weld neck flange	Type B2	45.9 (1165)	709.3 (321.7)
962	8 in	CL150	ASME B16.5	Super duplex	Weld neck flange	Raised face	43.8 (1111)	635.3 (288.2)
963	8 in	CL300	ASME B16.5	Super duplex	Weld neck flange	Raised face	44.5 (1131)	691.3 (313.6)
964	8 in	CL600	ASME B16.5	Super duplex	Weld neck flange	Raised face	46.8 (1187)	795.3 (360.7)
965	8 in	CL900	ASME B16.5	Super duplex	Weld neck flange	Raised face	49.0 (1245)	907.3 (411.5)
966	6 in	CL150	ASME B16.5	Super duplex	Weld neck flange	Raised face	42.8 (1087)	607.3 (275.5)
967	6 in	CL300	ASME B16.5	Super duplex	Weld neck flange	Raised face	43.6 (1107)	645.3 (292.7)
968	6 in	CL600	ASME B16.5	Super duplex	Weld neck flange	Raised face	45.6 (1157)	707.3 (320.8)
969	6 in	CL900	ASME B16.5	Super duplex	Weld neck flange	Raised face	47.3 (1201)	763.3 (346.2)

**CMFHC3M and CMFHC3A (standard or high temperature 316L stainless steel)**

Code	Description						Dim A in (mm)	Weight lb (kg)
801	DN200	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	42.7 (1084)	791.3 (358.9)
802	DN200	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type B2	46.0 (1168)	913.3 (414.3)
803	DN200	PN160	EN 1092-1	F316/F316L	Weld neck flange	Type B2	46.8 (1188)	959.3 (435.1)
804	DN250	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	44.0 (1118)	861.3 (390.7)
805	DN250	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type B2	48.1 (1222)	1063.3 (482.3)
806	DN250	PN160	EN 1092-1	F316/F316L	Weld neck flange	Type B2	48.0 (1218)	1129.3 (512.2)
810	8 in	CL150	ASME B16.5	F316/F316L	Weld neck flange	Raised face	43.8 (1111)	771.3 (349.8)

Code	Description						Dim A in (mm)	Weight lb (kg)
811	8 in	CL300	ASME B16.5	F316/F316L	Weld neck flange	Raised face	44.5 (1131)	825.3 (374.3)
812	8 in	CL600	ASME B16.5	A105 Carbon Steel	Lap joint flange	316/316L stub	46.8 (1187)	915.3 (415.2)
813	10 in	CL150	ASME B16.5	F316/F316L	Weld neck flange	Raised face	43.9 (1115)	801.3 (363.5)
814	10 in	CL300	ASME B16.5	F316/F316L	Weld neck flange	Raised face	45.0 (1143)	847.3 (384.3)
815	10 in	CL600	ASME B16.5	F316/F316L	Weld neck flange	Raised face	47.4 (1204)	1047.3 (475.0)
816	10 in	CL600	ASME B16.5	A105 Carbon Steel	Lap joint flange	316/316L stub	49.8 (1264)	1071.3 (485.9)
817	10 in	CL600	ASME B16.5	F316/F316L	Weld neck flange	Raised face	44.1 (1119)	1047.3 (475.0)
818	8 in	CL600	ASME B16.5	F316/F316L	Weld neck flange	Raised face	46.8 (1187)	887.3 (402.5)
819	8 in	CL900	ASME B16.5	F316/F316L	Weld neck flange	Raised face	49.0 (1245)	1037.3 (470.5)
820	10 in	CL900	ASME B16.5	F316/F316L	Weld neck flange	Raised face	49.5 (1257)	1183.3 (536.7)

**CMFHC3Y (super duplex UNS S32750)**

Code	Description						Dim A in (mm)	Weight lb (kg)
825	DN200	PN40	EN 1092-1	Super duplex	Weld neck flange	Type B1	42.7 (1084)	789.3 (358.0)
826	DN200	PN100	EN 1092-1	Super duplex	Weld neck flange	Type B2	46.0 (1168)	907.3 (411.5)
827	DN200	PN160	EN 1092-1	Super duplex	Weld neck flange	Type B2	46.8 (1188)	951.3 (431.5)
828	DN250	PN40	EN 1092-1	Super duplex	Weld neck flange	Type B1	44.0 (1118)	857.3 (388.9)
829	DN250	PN100	EN 1092-1	Super duplex	Weld neck flange	Type B2	48.1 (1222)	1055.3 (478.7)
830	DN250	PN160	EN 1092-1	Super duplex	Weld neck flange	Type B2	48.0 (1218)	1119.3 (507.7)
831	8 in	CL150	ASME B16.5	Super duplex	Weld neck flange	Raised face	43.8 (1111)	769.3 (348.9)
832	8 in	CL300	ASME B16.5	Super duplex	Weld neck flange	Raised face	44.5 (1131)	823.3 (373.4)
833	8 in	CL600	ASME B16.5	Super duplex	Weld neck flange	Raised face	46.8 (1187)	915.3 (415.2)
834	8 in	CL900	ASME B16.5	Super duplex	Weld neck flange	Raised face	49.0 (1245)	1035.3 (469.6)
836	10 in	CL150	ASME B16.5	Super duplex	Weld neck flange	Raised face	43.8 (1111)	799.3 (362.5)

Code	Description						Dim A in (mm)	Weight lb (kg)
837	10 in	CL300	ASME B16.5	Super duplex	Weld neck flange	Raised face	45.0 (1143)	883.3 (400.6)
838	10 in	CL600	ASME B16.5	Super duplex	Weld neck flange	Raised face	48.3 (1226)	1063.3 (482.3)
839	10 in	CL900	ASME B16.5	Super duplex	Weld neck flange	Raised face	50.8 (1289)	1197.3 (543.1)

**CMFHC4M (316L stainless steel)**

Code	Description						Dim A in (mm)	Weight lb (kg)
841	10 in	CL150	ASME B16.5	F316/F316L	Weld neck flange	Raised face	47.8 (1213)	1386.3 (628.8)
842	10 in	CL300	ASME B16.5	F316/F316L	Weld neck flange	Raised face	49.0 (1244)	1470.3 (666.9)
843	10 in	CL600	ASME B16.5	F316/F316L	Weld neck flange	Raised face	52.3 (1327)	1666.3 (755.8)
844	10 in	CL900	ASME B16.5	F316/F316L	Weld neck flange	Raised face	54.8 (1391)	1812.3 (822.0)
845	12 in	CL150	ASME B16.5	F316/F316L	Weld neck flange	Raised face	48.8 (1238)	1484.3 (673.3)
846	12 in	CL300	ASME B16.5	F316/F316L	Weld neck flange	Raised face	50.0 (1270)	1604.3 (727.7)
847	12 in	CL600	ASME B16.5	F316/F316L	Weld neck flange	Raised face	52.5 (1333)	1816.3 (823.9)
848	12 in	CL900	ASME B16.5	F316/F316L	Weld neck flange	Raised face	56.0 (1423)	2050.3 (930.0)
849	DN250	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	48.0 (1220)	1430.3 (648.8)
850	DN250	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type B2	52.1 (1324)	1628.3 (738.6)
851	DN250	PN160	EN 1092-1	F316/F316L	Weld neck flange	Type B2	52.0 (1320)	1710.3 (775.8)
852	DN300	PN40	EN 1092-1	F316/F316L	Weld neck flange	Type B1	48.8 (1240)	1528.3 (693.2)
853	DN300	PN100	EN 1092-1	F316/F316L	Weld neck flange	Type B2	53.1 (1350)	1844.3 (836.6)
854	DN300	PN160	EN 1092-1	F316/F316L	Weld neck flange	Type B2	53.5 (1360)	1948.3 (883.7)







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