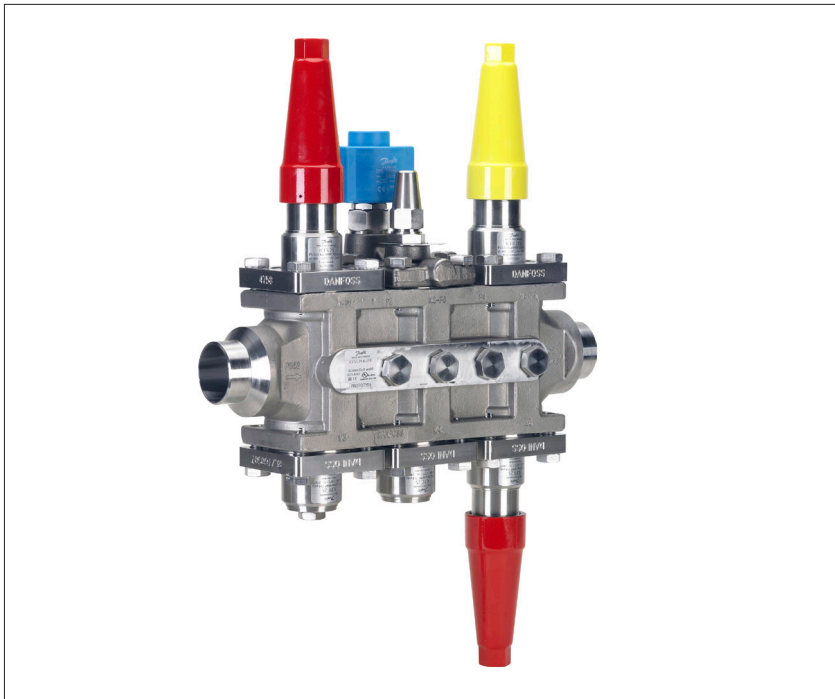


Data sheet

# Valve Station in stainless steel

## ICF SS 20 and ICF SS 25



Based on advanced technology the ICF SS valve station incorporates several functions in one housing, which can replace a series of conventional mechanical, electro-mechanical and electronically operated valves.

This valve station not only provides a number of advantages in the design phase of a refrigeration plant but also in the installation, service and maintenance.

The ICF SS valve stations are designed for low and high pressure refrigerants and can be used in pumped liquid lines, liquid injection lines and hot gas lines.

Supplied as a complete assembly, it is fully tested at high pressure and its functions are tested under factory controlled conditions.

One code number equals one application solution.

### Features

- Designed for industrial refrigeration applications for a maximum working pressure of 52 bar / 754 psig.
- Applicable to HCFC, non flammable HFC, R717 (Ammonia) and R744 (CO<sub>2</sub>). The use of ICF SS valve stations with flammable hydrocarbons is not recommended.
- Direct weld connections (No leaks through flanges).
- Stainless steel valve housing and function modules.
- Low weight and compact design.
- V-port regulating cones on the control modules ensure optimum regulating accuracy particularly at part load.
- Modular Concept  
Each housing is available with butt-weld DIN connections in several sizes. Valve service is performed by replacing the function module.
- Side ports for the connection of pressure gauges, transmitters, sight glasses, service valve etc.
- UL approved



ICF SS valve station		
Nominal bore	DN ≤ 25 (1 in.)	DN 32-40 (1 ¼ - 1 ½")
Classified for	Fluid group I	
Category	Article 3, paragraph 3	II

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**Technical data**

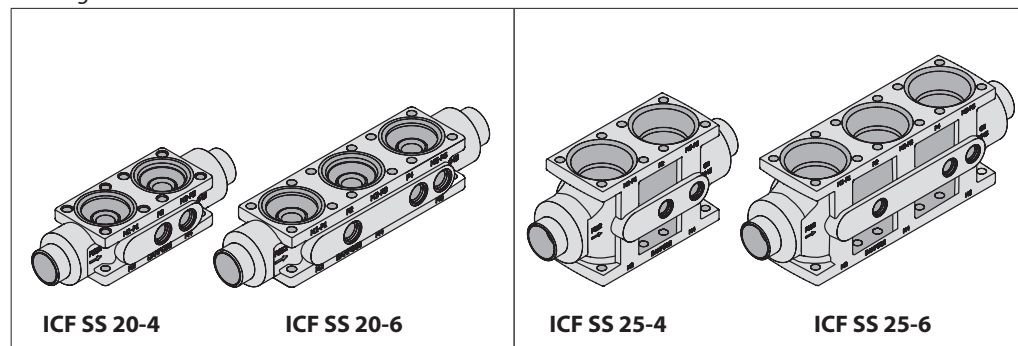
- *Refrigerants*  
Applicable to HCFC, non flammable HFC, R717 (Ammonia) and R744 (CO<sub>2</sub>).  
The use of ICF SS valve stations with flammable hydrocarbons is not recommended.  
For further information please contact the local Danfoss sales company.
  - *Temperature range*  
-60 – 120 °C / -76 – 248 °F.  
If the ICM module is going to be used in liquid refrigerant with a temperature above 75 °C / 167 °F, please contact Danfoss.
  - *Ambient temperature for ICF SS with ICAD:*  
-30 – 50 °C / -22 – 122 °F
  - *Pressure*  
The ICF SS is designed for:  
Max. working pressure: 52 bar g / 754 psig
- Opening differential pressure:*  
Please refer to the individual function module data.

**Design**

The main components of the ICF SS valve station are:

- A housing
- A maximum of four or six function modules

*Housing*



*Function modules*

**Each housing accommodates a maximum of four or six function modules, of the following types:**

- Stop valve module
- Manual regulating valve module
- Filter module
- Solenoid valve module
- Electronic expansion valve module
- Manual opening module
- Check valve module
- Stop/check valve module
- Motor valve module
- External welding connection module
- Blank top cover

*Optional:*

- The housings are supplied with a predefined number of side ports for the following options:
- Sight glass
  - Temperature or pressure sensor
  - Pressure gauge
  - Side exit for drain or bypass.

The design allows maximum capacity and minimum pressure drop, using advanced technology and double seats – offering higher capacity than conventional systems using individual valves and components.

The ICF SS valve station is multifunctional.

ICF SS valve station offers compact dimensions and shortened installation time due to the reduced number of direct welded connections.

Supplied as a complete assembly, it is leak tested at high pressure and its functions are tested under factory controlled conditions.

*Connections*

- D: Butt weld, DIN (EN 10220)

*Approvals*

The ICF SS concept is designed to fulfil global refrigeration requirements. For specific approval information, please contact Danfoss.

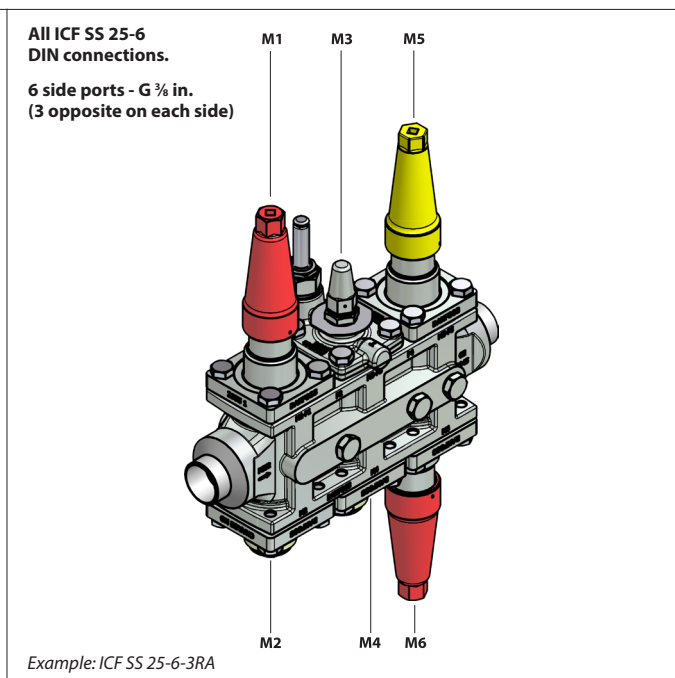
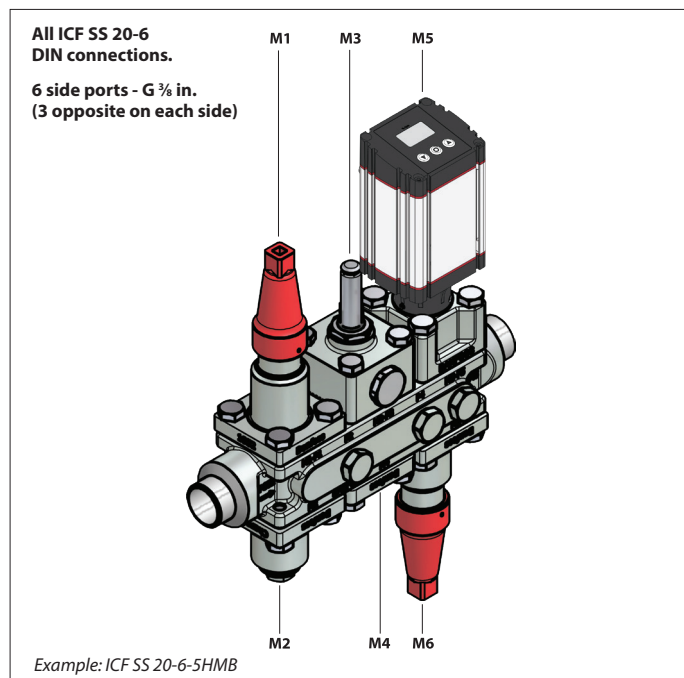
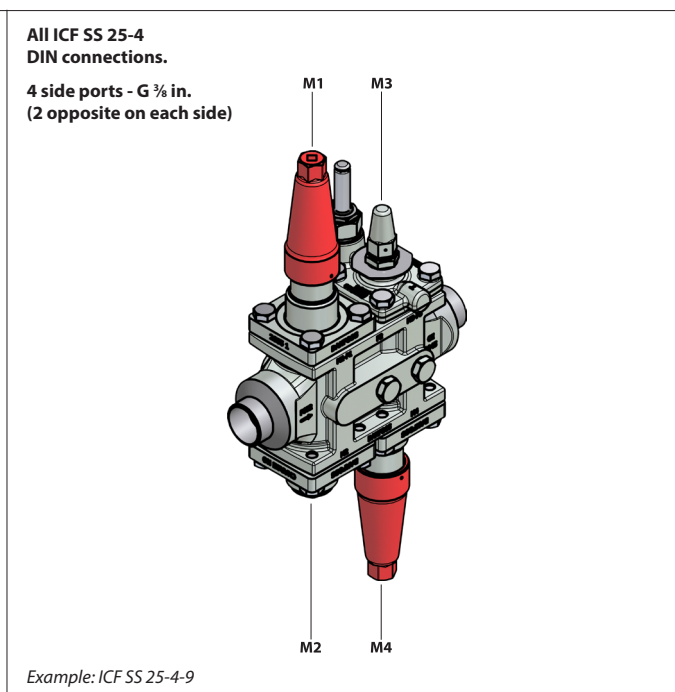
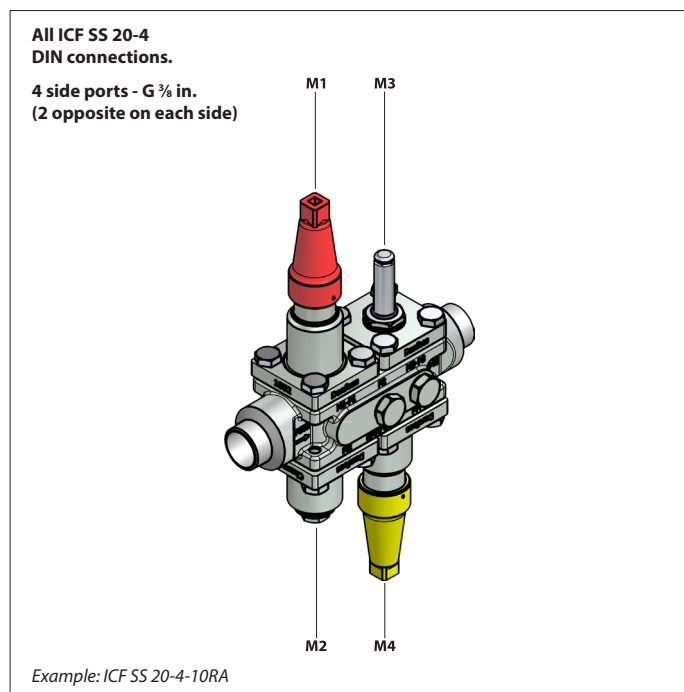
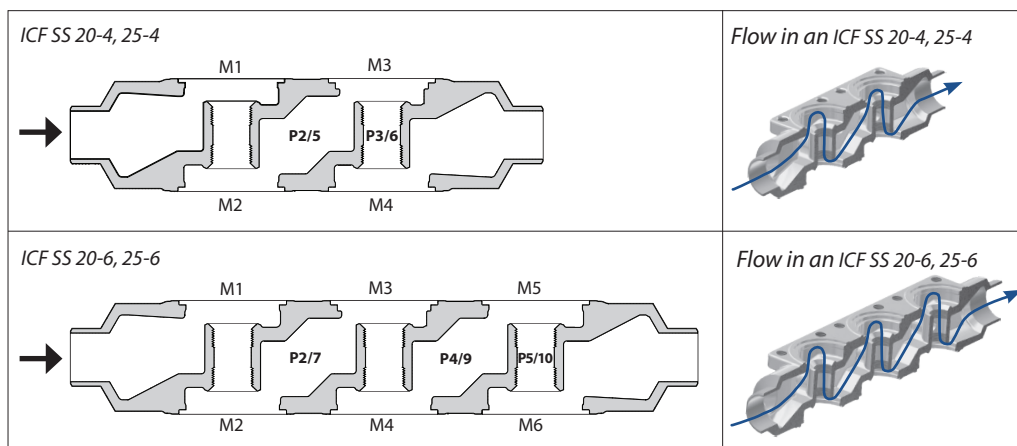
*Housing and function module material*  
Stainless steel

**When using TIG/MIG/SAW welding technology, it is possible to install the ICF SS valve station without prior removal of the function modules from the housing. If using other welding methods the modules must be removed during welding.**

Please consult the product instruction for more details.

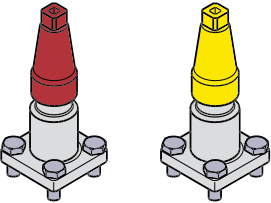
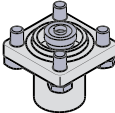
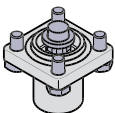
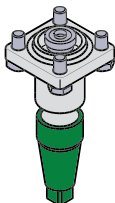
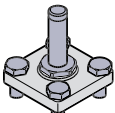
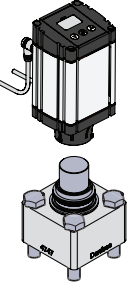
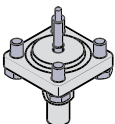
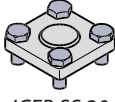
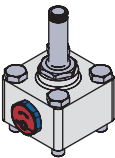
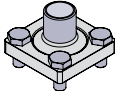
**Data sheet | Valve Station in stainless steel, types ICF SS 20 and ICF SS 25**

*Module and Sideport arrangement*



## ICF SS 20

### Description of the function modules for ICF SS 20

<p><b>ICFS SS 20</b> <i>Shut-off valve module</i> This module has the function of a stop valve, and has a red cap.</p> <p><b>ICFR SS 20, A or B</b> <i>Manual regulating valve module</i> This module has the function of a hand regulating valve, and has a yellow cap.</p>	 <p>ICFS SS 20      ICFR SS 20</p>	<p><b>ICFC SS 20</b> <i>Check valve module</i> This module has the function of a check valve.</p>	 <p>ICFC SS 20</p>
<p><b>ICFF SS 20 / ICFF SS 20E</b> <i>Strainer module</i> This module functions as a strainer.</p> <p>ICFF SS 20: Pleated 150<math>\mu</math> (100 mesh) / 45 cm<sup>2</sup> (7.0 in<sup>2</sup>)</p> <p>ICFF SS 20E: Pleated 150<math>\mu</math> (100 mesh) / 160 cm<sup>2</sup> (24.8 in<sup>2</sup>)</p>	 <p>ICFF SS 20 / ICFF SS 20E</p>	<p><b>ICFN SS 20</b> <i>Stop &amp; check valve module</i> This module has the function of a combined stop and check valve, and has a green cap.</p>	 <p>ICFN SS 20</p>
<p><b>ICFE SS 20</b> <i>Solenoid valve module</i> This module has the function of a normally closed solenoid valve for controlling the refrigerant flow.</p> <p><b>ICFA SS 20</b> <i>Electronic expansion valve module</i> This module has the function of an electronic pulse width modulating (PWM) expansion valve.</p>	 <p>ICFE SS 20 / ICFA SS 20</p>	<p><b>ICM SS 20-A, 20-B, 20-C, 20-A33 or 20-B66</b> <i>Motor operated valve module</i> This module is a stepper motor actuator valve for on/off and modulating control of the refrigerant flow.</p>	 <p>ICM SS 20-A, 20-B, 20-C, 20-A33 or 20-B66</p>
<p><b>ICFO SS 20</b> <i>Manual opening module</i> This module facilitates the manual opening of the solenoid valve (type ICFE SS).</p>	 <p>ICFO SS 20</p>	<p><b>ICFB SS 20</b> <i>Blind top cover</i> This provides a blanking cover for unused module ports.</p>	 <p>ICFB SS 20</p>
<p><b>ICFE SS 20H</b> <i>Solenoid valve module with integrated manual opener</i> This module has the function of a normally closed solenoid valve for controlling the refrigerant flow.</p>	 <p>ICFE SS 20H</p>	<p><b>ICFW SS 20</b> <i>Welding module 20 DIN</i> This module is used for drain connection during hot-gas defrosting - in case of high capacity.</p>	 <p>ICFW SS 20</p>

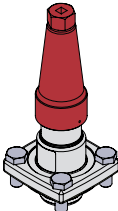
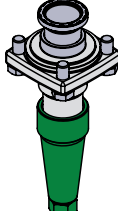
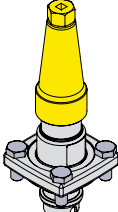
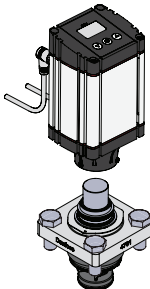
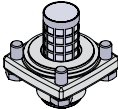
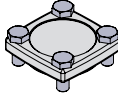
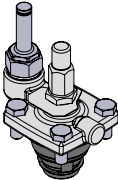

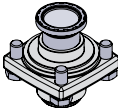
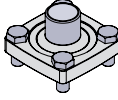


**Please note:**

At about 10% of maximum mass flow of ICFE SS 20H, the pressure differential correspond to about 0.07 Bar / 1 psi. ICFE SS 20H will start to open at these conditions. At a pressure differential of minimum 0.2 Bar (2.9 psi) ICFE SS 20H will be 100 % open.

## ICF SS 25

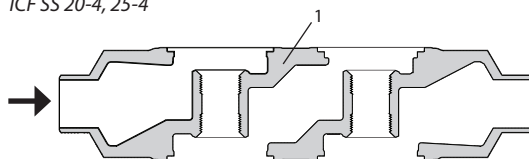
### Description of the function modules for ICF SS 25

<p><b>ICFS SS 25</b>  <i>Shut-off valve module</i>            This module has the function of a stop valve, and has a red cap.</p>	 <p>ICFS SS 25</p>	<p><b>ICFN SS 25</b>  <i>Stop &amp; check valve module</i>            This module has the function of a combined stop and check valve, and has a green cap.</p>	 <p>ICFN SS 25</p>
<p><b>ICFR SS 25, A or B</b>  <i>Manual regulating valve module</i>            This module has the function of a hand regulating valve, and has a yellow cap.</p>	 <p>ICFR SS 25</p>	<p><b>ICM SS 25-A or B</b>  <i>Motor operated valve module</i>            This module is a stepper motor actuator valve for on/off and modulating control of the refrigerant flow.</p>	 <p>ICM SS 25-A or B</p>
<p><b>ICFF SS 25</b>  <i>Strainer module</i>            This module functions as a strainer.</p> <p>ICFF SS 25:            Pleated 150<math>\mu</math> (100 mesh) /            160 cm<sup>2</sup> (24.8 in<sup>2</sup>)</p> <p>ICFF SS 25E:            Pleated 150<math>\mu</math> (100 mesh) /            330 cm<sup>2</sup> (51.2 in<sup>2</sup>)</p>	 <p>ICFF SS 25 / ICFF SS 25E</p>	<p><b>ICFB SS 25</b>  <i>Blind top cover</i>            This provides a blanking cover for unused module ports.</p>	 <p>ICFB SS 25</p>
<p><b>ICFE SS 25</b>  <i>Solenoid valve module</i>            This module has the function of a normally closed solenoid valve for controlling the refrigerant flow.</p> <p>It has a built-in manual opening function.</p>	 <p>ICFE SS 25</p>	<p> <b>Please note:</b>            At about 10% of maximum mass flow of ICFE SS 25, the pressure differential correspond to about 0.07 Bar / 1 psi. ICFE SS 25 will start to open at these conditions.</p> <p>At a pressure differential of minimum 0.2 Bar (2.9 psi) ICFE SS 25 will be 100 % open.</p>	
<p><b>ICFC SS 25</b>  <i>Check valve module</i>            This module has the function of a check valve.</p>	 <p>ICFC SS 25</p>	<p><b>ICFW SS 25</b>  <i>Welding module, 25 DIN</i>            This module is used for drain connection during hot-gas defrosting - in case of high capacity.</p>	 <p>ICFW SS 25</p>

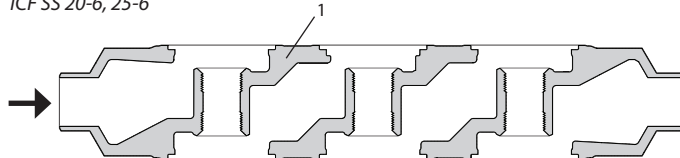
Material specification

ICF SS housing

ICF SS 20-4, 25-4

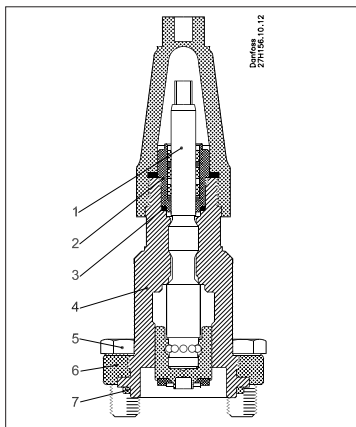


ICF SS 20-6, 25-6



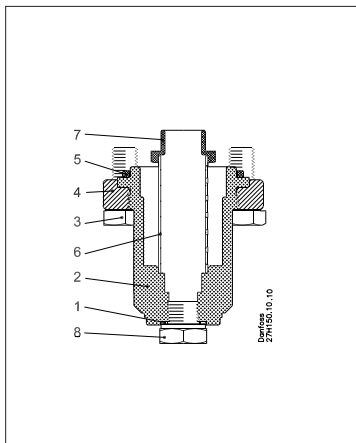
Pos.	Part	Material	EN	ASTM
1	Housing	Stainless steel	GX5CrNi19-10 EN10213-4	A304

ICF SS 20 shut-off valve module



Pos.	Part	Material	EN	ASTM
1	Spindle	Stainless steel	X8CrNiS 18-9 EN 10088	A303
2	Thread part	Stainless steel		
3	AL-gasket/Refrig. gasket			
4	Bonnet	Stainless steel	X5CrNi 18-10 EN 10272	A304
5	Hex-head bolt M10 x 25	Stainless steel	A2-70	Type 308
6	Flange	Stainless steel	X5CrNi18-10 EN10088	A304
7	Gasket	Chloroprene (Neoprene)		

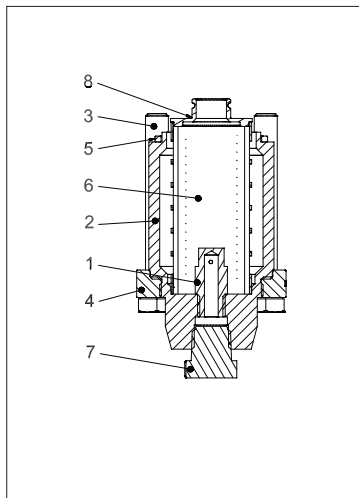
ICFF SS 20 strainer module



Pos.	Part	Material	EN	ASTM
1	Gasket	AL 99 F11		
2	Bonnet	Stainless steel	X5CrNi 18-10 EN 10272	A304
3	Hex-head bolt M10 x 25	Stainless steel	A2-70	Type 308
4	Flange	Stainless steel	X5CrNi18-10 EN10088	A304
5	Gasket	Chloroprene (Neoprene)		
6	Filter element	Stainless steel 74µ and 150µ		
7	Plug	Steel		
8	Plug ¼" RG for butt weld	Stainless steel		

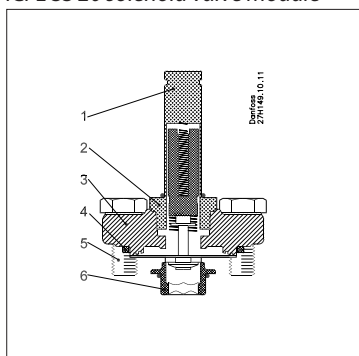
**Material specification**  
(continued)

*ICFF SS 20E extended strainer module*



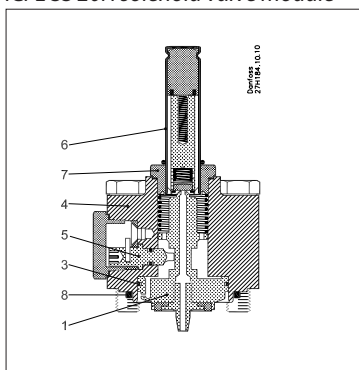
Pos.	Part	Material	EN	ASTM
1	Dirt protection plug	Steel	11SMn30 EN 10087	Grade 1213 A29
2	Bonnet	Stainless steel	X5CrNi 18-10 EN 10272	A304
3	Hex-head bolt M12x80	Stainless steel	A2-70	Type 308
4	Flange	Stainless steel	X5CrNi18-10 EN10088	A304
5	Gasket	Chloroprene (Neoprene)		
6	Filter element	Stainless steel 250µ		
7	Plug 3/8" NPT	Stainless steel		
8	Filter adaptor	Steel		

*ICFE SS 20 solenoid valve module*



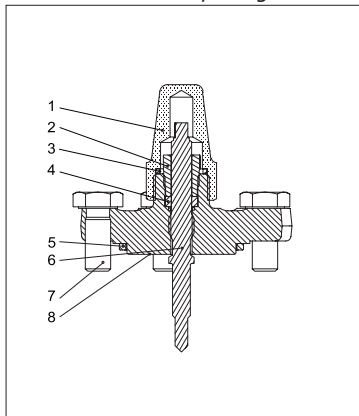
Pos.	Part	Material	EN	ASTM
1	Armature tube	Stainless steel		
2	Armature tube nut	Stainless steel	X8CrNiS18-9 EN 10088	
3	Flange	Stainless steel	X5CrNi18-10 EN10088	A304
4	Gasket	Chloroprene (Neoprene)		
5	Hex-Head bolt M10 x 25	Stainless steel	A2-70	Type 308
6	Seat	High density polymer		

*ICFE SS 20H solenoid valve module*



Pos.	Part	Material	EN	ASTM
1	Piston	Steel	11SMn30 EN EN 10025	
2	Seat	Teflon		
3	Piston ring			
4	Bonnet cylinder	Stainless steel	X5CrNi18-10 EN10088	A304
5	Manual opener	Steel		
6	Armature tube	Stainless steel		
7	Armature tube nut	Stainless steel	X2CrNi19-11 EN10216	A320
8	Gasket	Chloroprene (Neoprene)		

*ICFO SS 20 manual opening module*

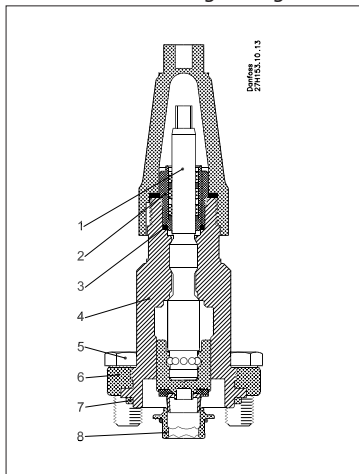


Pos.	Part	Material	EN	ASTM
1	Seal cap	Stainless steel		
2	Gland nut	Steel		
3	Seal cap gasket	Nylon	Polyamid A6	Polyamid PA6
4	Sealing ring	Teflon	PTFE	PTFE
5	Rubber gasket	Chloroprene rubber	CR	CR
6	Spindle	Stainless steel	X8CrNiS 18-9 EN 10088	A303
7	Hex-head bolt M10 x 25	Stainless steel	A2-70	Type 308
8	Flange	Stainless steel	X5CrNi18-10 EN10088	A304



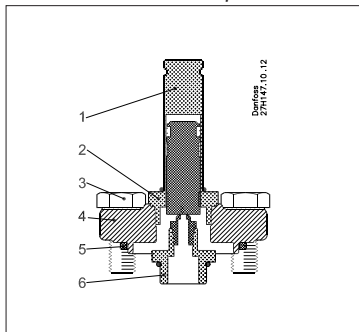
**Material specification**  
(continued)

*ICFR SS 20 manual regulating valve module, A or B*



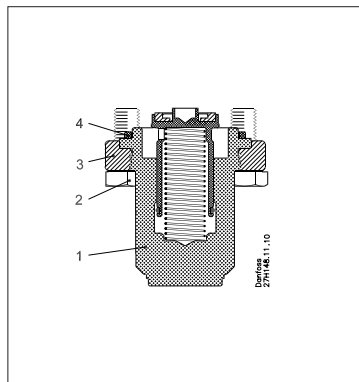
Pos.	Part	Material	EN	ASTM
1	Spindle	Stainless steel	X8CrNiS 18-9 EN 10088	A303
2	Thread part	Stainless steel		
3	AL-gasket			
4	Bonnet	Stainless steel	X5CrNi 18-10 EN 10272	A304
5	Hex-head bolt M10 × 25	Stainless steel	A2-70	Type 308
6	Flange	Stainless steel	X5CrNi18-10 EN10088	A304
7	Gasket	Chloroprene (Neoprene)		
8	Seat	High density polymer		

*ICFA SS 20 electronic expansion valve module*



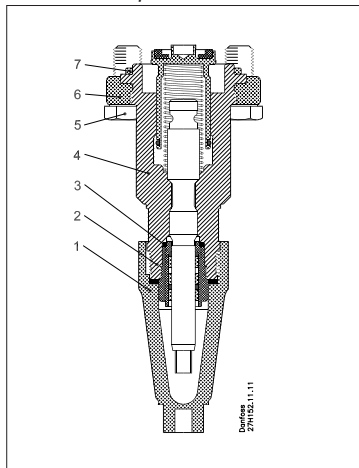
Pos.	Part	Material	EN	ASTM
1	Armature tube	Stainless steel		
2	Armature tube nut	Stainless steel	X8CrNiS18-9 EN 10088	
3	Hex-head bolt M10 × 25	Stainless steel	A2-70	Type 308
4	Flange	Stainless steel	X5CrNi18-10 EN10088	A304
5	Gasket	Chloroprene (Neoprene)		
6	Adaptor	Stainless steel		

*ICFC SS 20 check valve module*



Pos.	Part	Material	EN	ASTM
1	Bonnet	Stainless steel	X5CrNi 18-10 EN 10272	A304
2	Hex-head bolt M10 × 25	Stainless steel	A2-70	Type 308
3	Flange	Stainless steel	X5CrNi18-10 EN10088	A304
4	Gasket	Chloroprene (Neoprene)		

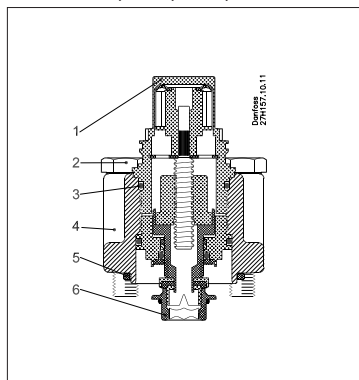
*ICFN SS 20 stop & check valve module*



Pos.	Part	Material	EN	ASTM
1	Spindle	Stainless steel	X8CrNiS 18-9 EN 10088	A303
2	Thread part	Stainless steel		
3	AL-gasket			
4	Bonnet	Stainless steel	X5CrNi 18-10 EN 10272	A304
5	Hex-head bolt M10 × 25	Stainless steel	A2-70	Type 308
6	Flange	Stainless steel	X5CrNi18-10 EN10088	A304
7	Gasket	Chloroprene (Neoprene)		

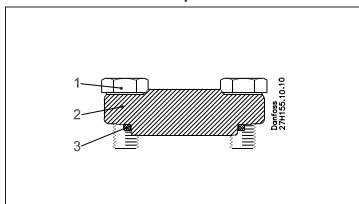
**Material specification**  
(continued)

*ICM SS 20-A, 20-B, 20-C, 20-A33 or 20-B66 motor valve module*



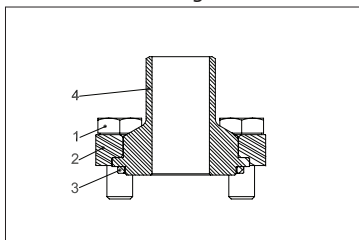
Pos.	Part	Material	EN	ASTM
1	Adapter	Stainless steel	X5CrNi18-10 EN 10088	A240
2	Hex-head bolt M10 × 55	Stainless steel	A2-70	Type 308
3	O-ring	Chloroprene		
4	Bonnet	Stainless steel	X5CrNi 18-10 EN 10088	A304
5	Gasket	Chloroprene (Neoprene)		
6	Seat	High density polymer		

*ICFB SS 20 blank top cover*



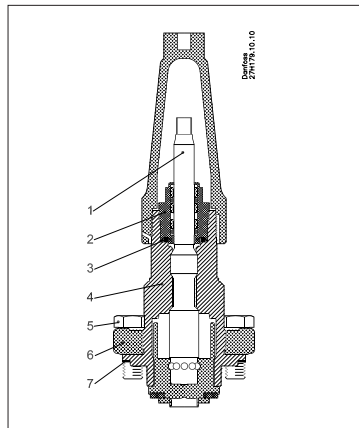
Pos.	Part	Material	EN	ASTM
1	Hex-head bolt M10 × 25	Stainless Steel	A2-70	Type 308
2	Flange	Stainless steel	X5CrNi18-10 EN10088	A304
3	Gasket	Chloroprene (Neoprene)		

*ICFW SS 20D welding module, 20 DIN*



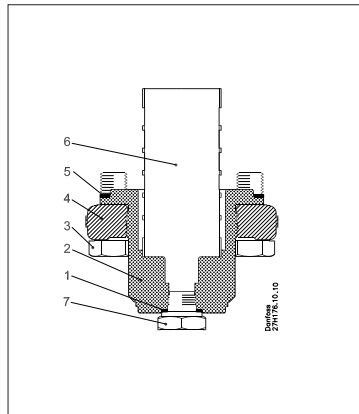
Pos.	Part	Material	EN	ASTM
1	Hex-head bolt M10 × 25	Stainless Steel	A2-70	Type 308
2	Flange	Stainless steel	X5CrNi18-10 EN10088	A304
3	Gasket	Chloroprene (Neoprene)		
4	Weld connection	Stainless Steel		

*ICFS SS 25 shut-off valve module*



Pos.	Part	Material	EN	ASTM
1	Spindle	Stainless steel	X8CrNiS 18-9 EN 10088	A303
2	Thread part	Stainless steel		
3	O-ring	Chloroprene		
4	Bonnet	Stainless steel	X5CrNi 18-10 EN 10272	A304
5	Hex-head bolt M12 × 30	Stainless steel	A2-70	Type 308
6	Flange	Stainless steel	X5CrNi18-10 EN10088	A304
7	Gasket	Fiber non asbestos		

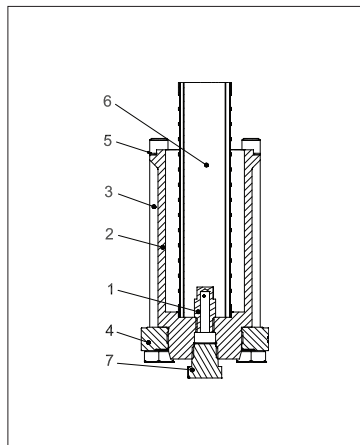
*ICFF SS 25 strainer module*



Pos.	Part	Material	EN	ASTM
1	Al. Gasket	AL 99 F11		
2	Bonnet	Stainless steel	X5CrNi 18-10 EN 10272	A304
3	Hex-head bolt M12 × 30	Stainless steel	A2-70	Type 308
4	Flange	Stainless steel	X5CrNi18-10 EN10088	A304
5	Gasket	Fiber non asbestos		
6	Filter element	Stainless steel 150µ		
7	Plug ¼" RG for butt weld	Stainless steel		

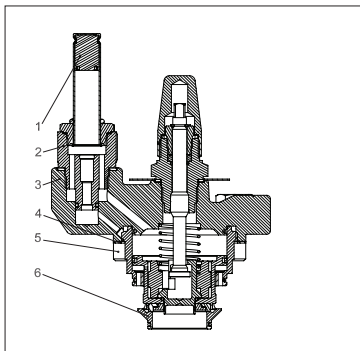
**Material specification**  
(continued)

*ICFF SS 25E extended strainer module*



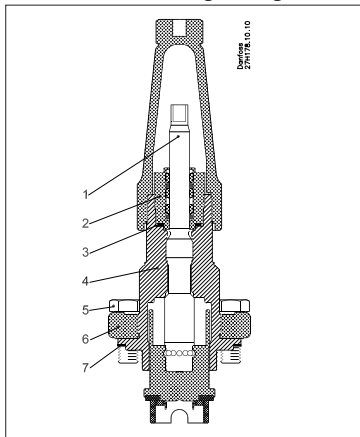
Pos.	Part	Material	EN	ASTM
1	Dirt protection plug	Steel	11SMn30 EN 10087	Grade 1213 A29
2	Bonnet	Stainless steel	X5CrNi 18-10 EN 10222	A304
3	Hex-head bolt M12x140	Stainless steel	A2-70	Type 308
4	Flange	Stainless steel	X5CrNi18-10 EN10088	A304
5	Gasket	Fiber non asbestos		
6	Filter element	Stainless steel 250µ		
7	Plug 3/8" NPT	Stainless steel		

*ICFE SS 25 solenoid valve module*



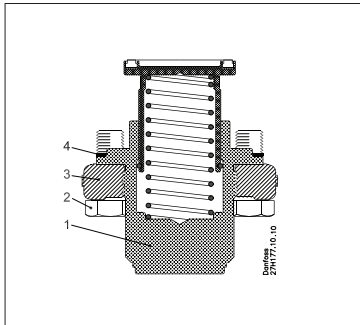
Pos.	Part	Material	EN	ASTM
1	Armature tube	Stainless steel		
2	Armature tube nut	Stainless steel	X8CrNiS18-9 EN 10088	
3	Bonnet	Stainless steel	X5CrNi 18-10 EN 10222	A304
4	Gasket	Fiber non asbestos		
5	Hex-Head bolt M10 x 30	Stainless steel	A2-70	Type 308
6	Seat	High density polymer		

*ICFR SS 25 manual regulating valve module, A or B*



Pos.	Part	Material	EN	ASTM
1	Spindle	Stainless steel	X8CrNiS 18-9 EN 10088	A303
2	Thread part	Stainless steel		
3	O-ring	Chloroprene		
4	Bonnet	Stainless steel	X5CrNi 18-10 EN 10272	A304
5	Hex-head bolt M12 x 30	Stainless steel	A2-70	Type 308
6	Flange	Stainless steel	X5CrNi18-10 EN10088	A304
7	Gasket	Fiber non asbestos		
8	Seat	High density polymer		

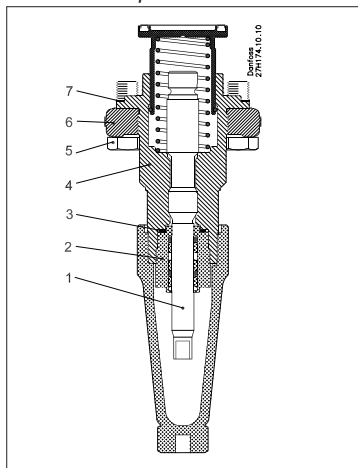
*ICFC SS 25 check valve module*



Pos.	Part	Material	EN	ASTM
1	Bonnet	Stainless steel	X5CrNi 18-10 EN 10272	A304
2	Hex-head bolt M12 x 30	Stainless steel	A2-70	Type 308
3	Flange	Stainless steel	X5CrNi18-10 EN10088	A304
4	Gasket	Fiber non asbestos		

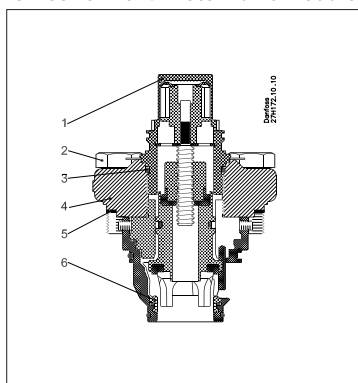
**Material specification**  
(continued)

*ICFN SS 25 stop & check valve module*



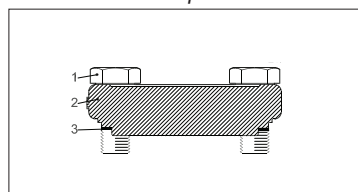
Pos.	Part	Material	EN	ASTM
1	Spindle	Stainless steel	X8CrNiS 18-9 EN 10088	A303
2	Thread part	Stainless steel		
3	O-ring	Chloroprene		
4	Bonnet	Stainless steel	X5CrNi 18-10 EN 10272	A304
5	Hex-head bolt M12 × 30	Stainless steel	A2-70	Type 308
6	Flange	Stainless steel	X5CrNi18-10 EN10088	A304
7	Gasket	Fiber non asbestos		

*ICM SS 25-A or B motor valve module*



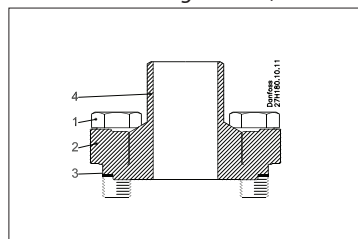
Pos.	Part	Material	EN	ASTM
1	Adapter	Stainless steel	X5CrNi18-10 EN 10088	A240
2	Hex-head bolt M12 × 30	Stainless steel	A2-70	Type 308
3	O-ring	Chloroprene		
4	Bonnet	Stainless steel	X5CrNi18-10 EN10088	A304
5	Gasket	Fiber non asbestos		
6	Seat	High density polymer		

*ICFB SS 25 blank top cover*



Pos.	Part	Material	EN	ASTM
1	Hex-head bolt M10 × 30	Stainless Steel	A2-70	Type 308
2	Flange	Stainless steel	X5CrNi18-10 EN10088	A304
3	Gasket	Fiber non asbestos		

*ICFW SS 25 welding module, 25 DIN*



Pos.	Part	Material	EN	ASTM
1	Hex-head bolt M10 × 30	Stainless Steel	A2-70	Type 308
2	Flange	Stainless steel	X5CrNi18-10 EN10088	A304
3	Gasket	Fiber non asbestos		
4	Weld connection	Stainless steel		

**Code number selection**

To determine the correct ICF SS valve station follow steps 1 through 5.

**Step 1 Determine application and function requirements:**

- Line: Pumped liquid, Liquid Injection, Hot gas defrost, Liquid DX etc.
- Control: On/off solenoid valve, motorised valve
- Defrost: Electric or hot gas

From the above determine the application reference number (see pages 14 and 17):

**Step 2 Selection criteria - Please use Coolselector®2**

Download the software from:

<http://refrigerationandairconditioning.danfoss.com/support-center/apps-and-software/coolselector/>

- Refrigerant
- Capacity
- Temperature
- Circulation rate

From the above determine the valve station required, e.g.: ICF SS 20 complete with ICM SS 20-C

**Step 3 Establish connection sizes and type**

- DIN butt-weld
- 20 (¾ in.), 25 (1 in.), 32 (1 ¼ in.) or 40 (1 ½ in.)

**Step 4 Establish code number**

(see pages 18 to 20)

**Data sheet | Valve Station in stainless steel, types ICF SS 20 and ICF SS 25**

**Applications**

To facilitate selection of the right ICF SS valve station Danfoss has predefined and grouped a large number of code numbers matching common applications:

Application #		Sequence of functions						
<b>Liquid feed</b>								
1	Liquid feed (No hotgas defrost)	Stop	Filter	Solenoid	Man Open	Regul.	Stop	
2	Liquid feed	Stop	Filter	Solenoid	Man Open	Regul.	Stop/Check	
3	Liquid feed	Stop	Filter	Solenoid	Check	Regul.	Stop	
10	Liquid feed (No hotgas defrost)	Stop	Filter	Solenoid	Regul.			
15	Liquid feed with external connection	Stop	Filter	Solenoid	Check	Welding	Regul.	

**Liquid injection**

5	Liquid injection (expansion)	Stop	Filter	Solenoid	Man Open	Motor	Stop	
14	Liquid injection (expansion)	Stop	Filter	Motor	Stop			

**Hot gas defrost**

9	Hot gas defrost	Stop	Filter	Solenoid	Stop			
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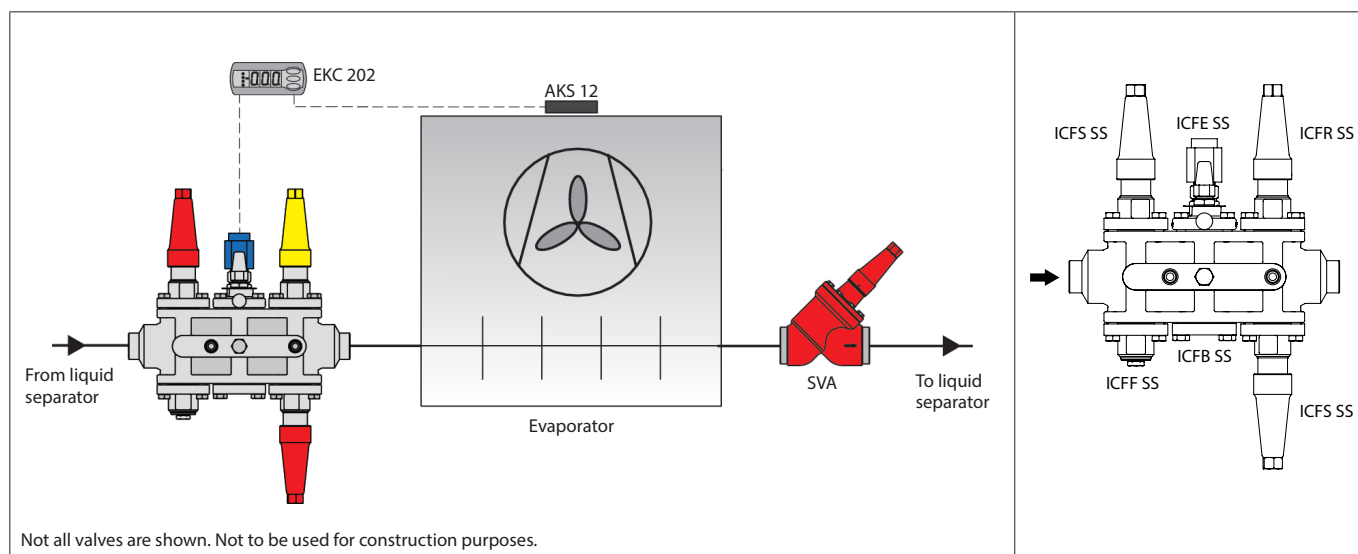
**Miscellaneous**

90	Multipurpose configurations							
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For specific identification of the different codes and flow capacity (K<sub>v</sub>) please refer to ordering section.

*Example of application:  
Liquid feed line*

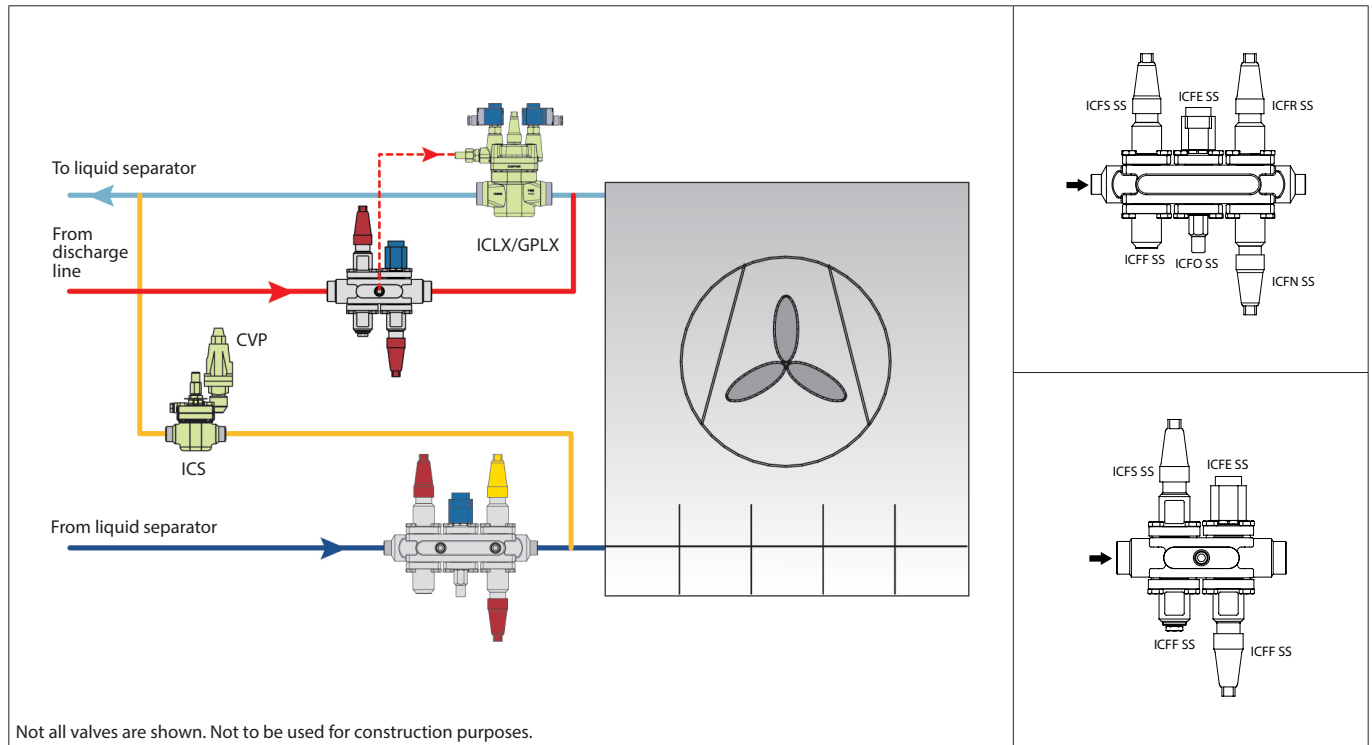
A valve combination for a flooded evaporator operating on/off from a thermostat and with electric defrost is required. Manual override of the solenoid valve is requested. Common ICF SS configurations for this kind of application is shown here:



**Data sheet | Valve Station in stainless steel, types ICF SS 20 and ICF SS 25**

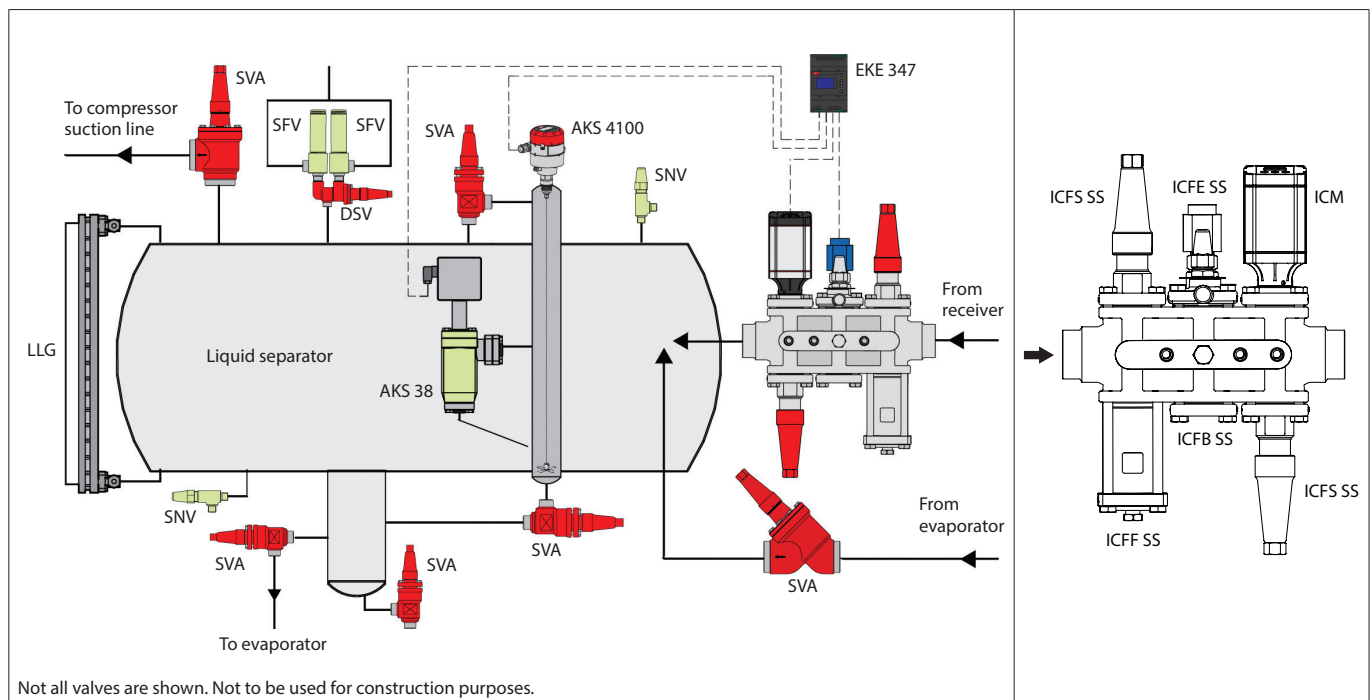
*Example of application:  
Liquid feed line/  
Hot gas defrost line*

Evaporator with soft opening gas powered valve ICLX in the suction line and hot gas defrost featuring:  
ICF SS liquid feed station and ICF SS Hot gas station with side port to power ICLX.  
ICS+CVP as a defrost regulator  
(OFV optional depending on capacity).



*Example of application:  
Liquid injection line*

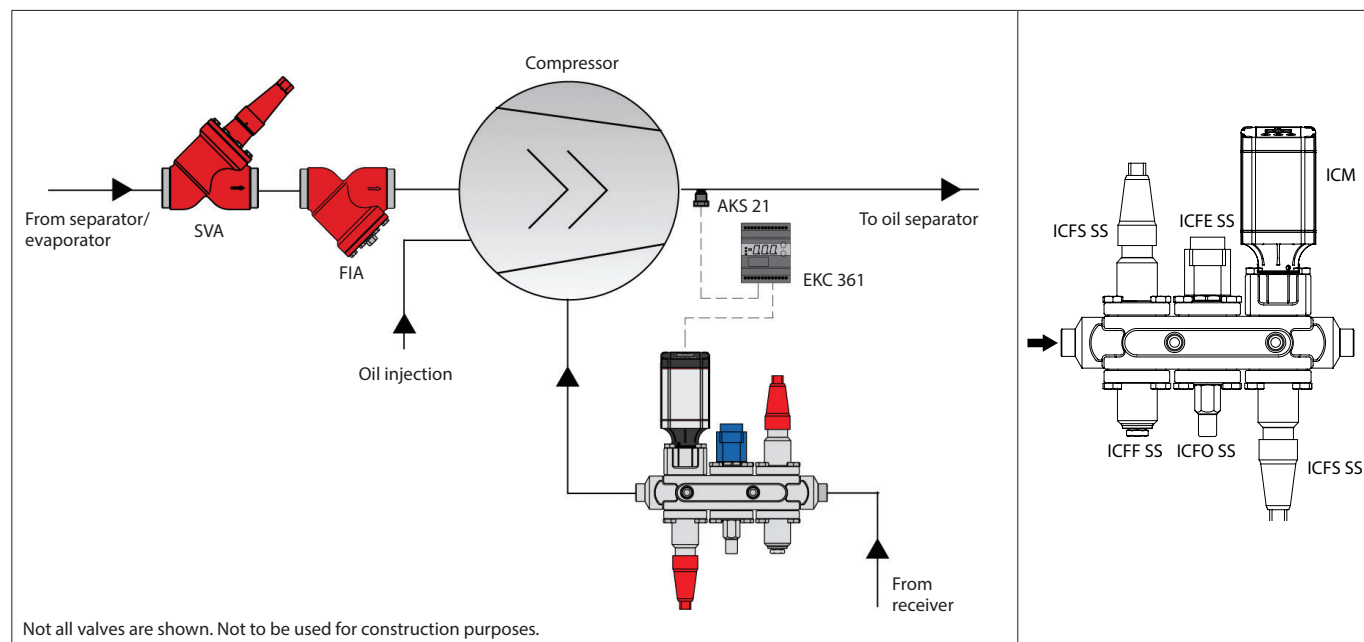
A valve combination for liquid injection to separator with electronic injection valve is required. It is requested to have a solenoid valve in front of the control valve.



**Data sheet | Valve Station in stainless steel, types ICF SS 20 and ICF SS 25**

*Example of application:  
Liquid injection line*

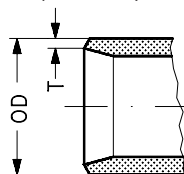
A valve combination for compressor liquid injection with electronic injection valve is required. It is required to have a solenoid valve in front of the control valve.





**Connections**

D: Butt-weld DIN (EN 10220)

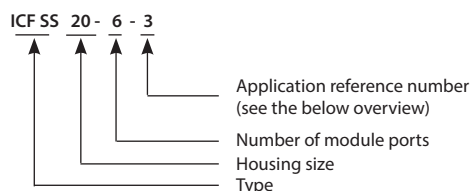


Size mm	Size in.	OD mm	T mm	OD in.	T in.		
20	(¾)	26.9	2.3	1.059	0.091		
25	(1)	33.7	2.6	1.327	0.103		
32	(1¼)	42.4	2.6	1.669	0.102		
40	(1½)	48.3	2.6	1.902	0.103		

**Ordering ICF SS valve station**

Below Nomenclature show the generic configuration and application by identification of housing size, type and application group.

This designation is often used for discussion on possible solutions and will be the final identification on the valve label (see label example)



Label example:



For ordering, connection size and type must be chosen to get the final identification. **The final identification is done by code number only** (see next pages)

**Application overview (generic configuration - connection type and size excluded)**

Application #	Sequence of functions						
<b>Liquid feed</b>							
1	Liquid feed (No hotgas defrost)	Stop	Filter	Solenoid	Man Open	Regul.	Stop
2	Liquid feed	Stop	Filter	Solenoid	Man Open	Regul.	Stop/Check
3	Liquid feed	Stop	Filter	Solenoid	Check	Regul.	Stop
10	Liquid feed (No hotgas defrost)	Stop	Filter	Solenoid	Regul.		
15	Liquid feed with external connection	Stop	Filter	Solenoid	Check	Welding	Regul.
<b>Liquid injection</b>							
5	Liquid injection (expansion)	Stop	Filter	Solenoid	Man Open	Motor	Stop
14	Liquid injection (expansion)	Stop	Filter	Motor	Stop		
<b>Hot gas defrost</b>							
9	Hot gas defrost	Stop	Filter	Solenoid	Stop		
<b>Miscellaneous</b>							
90	Multipurpose configurations						

## Liquid feed

### Application 1: Liquid feed (no hot gas defrost)

Type	# of modules	Appl. #	Connection size		Connection type	Module location						K <sub>v</sub> total	Weight		Code number
			[in.]	[mm]		M1	M2	M3	M4	M5	M6		kg	lbs	
ICF SS 20	6	1RA	¾	20	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20	ICFO 20	ICFR 20A	ICFS 20	2.1	9.5	20.9	027L4700
ICF SS 20	6	1RA	1	25	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20	ICFO 20	ICFR 20A	ICFS 20	2.1	9.7	21.3	027L4701

### Application 2: Liquid feed

Type	# of Modules	Appl. #	Connection size		Connection type	Module location						K <sub>v</sub> total	Weight		Code number
			[in.]	[mm]		M1	M2	M3	M4	M5	M6		kg	lbs	
ICF SS 20	6	2RA	¾	20	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20	ICFO 20	ICFR 20A	ICFN 20	2.4	10.0	22.1	027L3428
ICF SS 20	6	2RA	1	25	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20E	ICFE 20	ICFO 20	ICFR 20A	ICFN 20	2.4	10.0	22.1	027L3445
ICF SS 20	6	2RA	1	25	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20	ICFO 20	ICFR 20A	ICFN 20	2.1	9.7	21.3	027L4758
ICF SS 20	6	2HRB	1¼	32	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20H	ICFB 20	ICFR 20B	ICFN 20	2.6	9.2	20.2	027L4759
ICF SS 25	6	2RB	1¼	32	Butt-weld DIN-EN 10220	ICFS 25	ICFF 25	ICFE 25	ICFB 25	ICFR 25B	ICFN 25	8.5	23.9	52.6	027L4766

### Application 3: Liquid feed

Type	# of Modules	Appl. #	Connection size		Connection type	Module location						K <sub>v</sub> total	Weight		Code number
			[in.]	[mm]		M1	M2	M3	M4	M5	M6		kg	lbs	
ICF SS 20	6	3RA	¾	20	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20	ICFC 20	ICFR 20A	ICFS 20	2.1	9.6	21.1	027L4702
ICF SS 20	6	3RA	1	25	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20	ICFC 20	ICFR 20A	ICFS 20	2.1	9.7	21.3	027L4703
ICF SS 20	6	3HRA	1	25	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20H	ICFC 20	ICFR 20A	ICFS 20	2.3	10.6	23.3	027L4717
ICF SS 25	6	3RA	1	25	Butt-weld DIN-EN 10220	ICFS 25	ICFF 25	ICFE 25	ICFC 25	ICFR 25A	ICFS 25	5.3	23.4	51.5	027L4724
ICF SS 25	6	3RA	1¼	32	Butt-weld DIN-EN 10220	ICFS 25	ICFF 25	ICFE 25	ICFC 25	ICFR 25A	ICFS 25	5.3	23.2	51.0	027L4760
ICF SS 25	6	3RB	1¼	32	Butt-weld DIN-EN 10220	ICFS 25	ICFF 25	ICFE 25	ICFC 25	ICFR 25B	ICFS 25	7.2	23.8	52.4	027L4725
ICF SS 25	6	3RB	1½	40	Butt-weld DIN-EN 10220	ICFS 25	ICFF 25	ICFE 25	ICFC 25	ICFR 25B	ICFS 25	7.2	24.0	52.8	027L4761
ICF SS 25	6	3RB	1½	40	Butt-weld DIN-EN 10220	ICFS 25	ICFF 25E	ICFE 25	ICFC 25	ICFR 25B	ICFS 25	8.5	24.7	54.3	027L4191

### Application 10: Liquid feed (no hot gas defrost)

Type	# of Modules	Appl. #	Connection size		Connection type	Module location				K <sub>v</sub> total	Weight		Code number
			[in.]	[mm]		M1	M2	M3	M4		kg	lbs	
ICF SS 20	4	10RA	¾	20	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20	ICFR 20B	2.6	7.4	16.2	027L3440
ICF SS 20	4	10RA	1	25	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20	ICFR 20A	2.3	7.2	15.8	027L4709
ICF SS 25	4	10RA	1	25	Butt-weld DIN-EN 10220	ICFS 25	ICFF 25	ICFE 25	ICFR 25A	5.5	15.9	35.0	027L4731
ICF SS 25	4	10RB	1¼	32	Butt-weld DIN-EN 10220	ICFS 25	ICFF 25	ICFE 25	ICFR 25B	7.9	15.4	33.9	027L4732
ICF SS 25	4	10RA	1	25	Butt-weld DIN-EN 10220	ICFS 25	ICFF 25E	ICFE 25	ICFR 25A	5.5	16.2	35.7	027L4590

### Application 15: Liquid feed with external connection

Type	# of Modules	Appl. #	Connection size		Connection type	Module location						K <sub>v</sub> total	Weight		Code number
			[in.]	[mm]		M1	M2	M3	M4	M5	M6		kg	lbs	
ICF SS 25	6	15RA	1	25	Butt-weld DIN-EN 10220	ICFS 25	ICFF 25	ICFE 25	ICFC 25	ICFW 25D	ICFR 25A	5.3	21.8	48.0	027L4733
ICF SS 25	6	15RB	1¼	32	Butt-weld DIN-EN 10220	ICFS 25	ICFF 25	ICFE 25	ICFC 25	ICFW 25D	ICFR 25B	7.3	22.7	49.9	027L4734

ICAD and coils are not included and must be ordered separately.

**Please Note:**

When used in systems with CO<sub>2</sub>, the o-rings on the ICM module can swell (grow). At service, it is therefore recommended to install new o-rings, before the ICM function module is re-installed in the ICF SS valve body. ICAD and coils are not included and must be ordered separately.

## Liquid injection

### Application 5: Liquid injection (expansion)

Type	# of modules	Appl. #	Connection size		Connection type	Module location						K <sub>v</sub> total	Weight		Code number
			[in.]	[mm]		M1	M2	M3	M4	M5	M6		kg	lbs	
ICF SS 20	6	5MA33	¾	20	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20-74	ICFE 20	ICFO 20	ICM 20-A33	ICFS 20	0.2	9.8	21.6	027L4714
ICF SS 20	6	5MB66	¾	20	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20	ICFO 20	ICM 20-B	ICFS 20	1.9	10.1	22.3	027L3443
ICF SS 20	6	5MA	1	25	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20	ICFO 20	ICM 20-A	ICFS 20	0.6	9.8	21.6	027L4704
ICF SS 20	6	5MB	1	25	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20	ICFO 20	ICM 20-B	ICFS 20	1.9	9.6	21.1	027L4705
ICF SS 20	6	5HMB	1	25	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20H	ICFB 20	ICM 20-B	ICFS 20	2.0	11.4	25.1	027L4718
ICF SS 20	6	5MA33	1	25	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20	ICFO 20	ICM 20-A33	ICFS 20	0.2	9.6	21.1	027L4755
ICF SS 25	6	5MA	1	25	Butt-weld DIN-EN 10220	ICFS 25	ICFF 25	ICFE 25	ICFB 25	ICM 25-A	ICFS 25	5.0	22.8	50.2	027L4726
ICF SS 20	6	5MB66	1¼	32	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20	ICFO 20	ICM 20-B66	ICFS 20	1.4	9.6	21.1	027L4754
ICF SS 20	6	5HMB	1¼	32	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20H	ICFB 20	ICM 20-B	ICFS 20	2.0	10.2	22.4	027L4756
ICF SS 20	6	5MC	1½	32	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20	ICFO 20	ICM 20-C	ICFS 20	2.5	9.8	21.6	027L4706
ICF SS 20	6	5HMC	1¼	32	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20H	ICFB 20	ICM 20-C	ICFS 20	3.0	10.3	22.7	027L4719
ICF SS 25	6	5MB	1¼	32	Butt-weld DIN-EN 10220	ICFS 25	ICFF 25	ICFE 25	ICFB 25	ICM 25-B	ICFS 25	7.3	22.3	49.0	027L4727
ICF SS 25	6	5MB	1½	40	Butt-weld DIN-EN 10220	ICFS 25	ICFF 25	ICFE 25	ICFB 25	ICM 25-B	ICFS 25	7.3	22.3	49.0	027L4728
ICF SS 25	6	5MA	1½	40	Butt-weld DIN-EN 10220	ICFS 25	ICFF 25	ICFE 25	ICFB 25	ICM 25-A	ICFS 25	5.0	22.3	49.0	027L4735

### Application 14: Liquid injection (expansion)

Type	# of modules	Appl. #	Connection size		Connection type	Module location						K <sub>v</sub> total	Weight		Code number
			[in.]	[mm]		M1	M2	M3	M4	M5	M6		kg	lbs	
ICF SS 20	4	14MA	¾	20	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICM 20-A	ICFS 20			0.6	7.3	16.1	027L4710
ICF SS 20	4	14MA	¾	20	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20E	ICM 20-A	ICFS 20			0.6	6.9	15.1	027L3444
ICF SS 20	4	14MB	1	25	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICM 20-B	ICFS 20			2.1	7.2	15.8	027L4711
ICF SS 20	4	14MB66	1	25	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICM 20-B66	ICFS 20			1.5	7.0	15.4	027L4722
ICF SS 20	4	14MC	1¼	32	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICM 20-C	ICFS 20			3.3	7.3	16.1	027L4712
ICF SS 25	4	14MB	1	25	Butt-weld DIN-EN 10220	ICFS 25	ICFF 25	ICM 25-B	ICFS 25			8.5	14.8	32.5	027L4765
ICF SS 25	4	14MB	1¼	32	Butt-weld DIN-EN 10220	ICFS 25	ICFF 25	ICM 25-B	ICFS 25			8.5	14.8	32.5	027L4764

## Hot gas defrost

### Application 9: Hot gas defrost

Type	# of Modules	Appl. #	Connection size		Connection type	Module location				K <sub>v</sub> total	Weight		Code number		
			[in.]	[mm]		M1	M2	M3	M4		kg	lbs			
ICF SS 20	4	9	1	25	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20	ICFS 20			3.3	7.2	15.8	027L4707
ICF SS 20	4	9H	1	25	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20H	ICFS 20			4.1	8.2	18.0	027L4720
ICF SS 20	4	9	1¼	32	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20	ICFS 20			3.3	6.8	15.0	027L4708
ICF SS 20	4	9H	1¼	32	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20H	ICFS 20			4.1	7.6	16.7	027L4721
ICF SS 25	4	9	1	25	Butt-weld DIN-EN 10220	ICFS 25	ICFF 25	ICFE 25	ICFS 25			9.7	16.2	35.7	027L3429
ICF SS 25	4	9	1¼	32	Butt-weld DIN-EN 10220	ICFS 25	ICFF 25	ICFE 25	ICFS 25			9.7	15.7	34.5	027L4729
ICF SS 25	4	9	1½	40	Butt-weld DIN-EN 10220	ICFS 25	ICFF 25	ICFE 25	ICFS 25			9.7	15.7	34.5	027L4730
ICF SS 25	4	9	1½	40	Butt-weld DIN-EN 10220	ICFS 25	ICFW 25D	ICM 25-B	ICFS 25			8.5	16.6	36.6	027L4190

ICAD and coils are not included and must be ordered separately.

**Please Note:**

When used in systems with CO<sub>2</sub>, the o-rings on the ICM module can swell (grow). At service, it is therefore recommended to install new o-rings, before the ICM function module is re-installed in the ICF SS valve body. ICAD and coils are not included and must be ordered separately.

## Miscellaneous

### Application 90: Miscellaneous

Type	# of modules	Appl. #	Connection size		Connection type	Module location						K <sub>v</sub> total	Weight		Code number
			[in.]	[mm]		M1	M2	M3	M4	M5	M6		kg	lbs	
ICF SS 20	4	90	¾	20	Butt-weld DIN-EN 10220	ICFR 20A	ICFF 20	ICFA 20	ICFN 20			0.3	6.4	14.1	027L4716
ICF SS 20	6	90	¾	20	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20	ICFB 20	ICFR 20-A	ICFN 20	2.1	9.7	21.3	027L4713
ICF SS 20	6	90	¾	20	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20	ICFC 20	ICM 20-C	ICFS 20	2.5	9.7	21.3	027L4715
ICF SS 20	6	90	¾	20	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20	ICFC 20	ICFR 20A	ICFW 20D	2.5	8.9	17.8	027L4740
ICF SS 20	6	90	¾	20	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20	ICFC 20	ICFR 20B	ICFW 20D	2.5	8.9	17.8	027L4741
ICF SS 20	6	90	¾	20	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20H	ICFC 20	ICFR 20A	ICFW 20D	2.5	9.8	21.5	027L4748
ICF SS 20	6	90	¾	20	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20H	ICFC 20	ICFR 20B	ICFW 20D	2.5	9.8	21.5	027L4749
ICF SS 20	6	90	¾	20	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20	ICFC 20	ICFR 20D	ICFS 20	2.8	9.3	20.6	027L4768
ICF SS 20	6	90	¾	20	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20	ICFB 20	ICFR 20A	ICFS 20	2.1	9.9	21.8	027L3427
ICF SS 20	6	90	1	25	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20E	ICFE 20H	ICFC 20	ICFR 20B	ICFW 20D	2.6	11.5	25.3	027L4723
ICF SS 20	6	90	1	25	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20	ICFC 20	ICFR 20A	ICFW 20D	2.6	8.9	17.8	027L4742
ICF SS 20	6	90	1	25	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20	ICFC 20	ICFR 20B	ICFW 20D	2.6	8.9	17.8	027L4743
ICF SS 20	6	90	1	25	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20H	ICFC 20	ICFR 20A	ICFW 20D	2.6	9.8	21.5	027L4750
ICF SS 20	6	90	1	25	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20H	ICFC 20	ICFR 20B	ICFW 20D	2.6	9.8	21.5	027L4751
ICF SS 20	6	90	1	25	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20	ICFC 20	ICFW 20D	ICFS 20	2.8	9.3	20.6	027L4767
ICF SS 20	6	90	1¼	32	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20	ICFC 20	ICFR 20A	ICFW 20D	2.6	8.9	17.8	027L4746
ICF SS 20	6	90	1¼	32	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20	ICFC 20	ICFR 20B	ICFW 20D	2.6	8.9	17.8	027L4747
ICF SS 20	6	90	1¼	32	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20H	ICFC 20	ICFR 20A	ICFW 20D	2.6	9.8	21.5	027L4752
ICF SS 20	6	90	1¼	32	Butt-weld DIN-EN 10220	ICFS 20	ICFF 20	ICFE 20H	ICFC 20	ICFR 20B	ICFW 20D	2.6	9.8	21.5	027L4753
ICF SS 25	6	90	1	25	Butt-weld DIN-EN 10220	ICFS 25	ICFF 25	ICFE 25	ICFN 25	ICFR 25B	ICFW 25D	7.3	24.2	53.2	027L4189
ICF SS 25	6	90	1	25	Butt-weld DIN-EN 10220	ICFS 25	ICFF 25	ICM 25-A	ICFC 25	ICFB 25	ICFS 25	5.2	23.6	51.9	027L4763
ICF SS 25	6	90	1¼	32	Butt-weld DIN-EN 10220	ICFS 25	ICFF 25	ICM 25-B	ICFC 25	ICFB 25	ICFS 25	7.7	23.6	51.9	027L4762

ICAD and coils are not included and must be ordered separately.

**Please Note:**

When used in systems with CO<sub>2</sub>, the o-rings on the ICM module can swell (grow). At service, it is therefore recommended to install new o-rings, before the ICM function module is re-installed in the ICF SS valve body. ICAD and coils are not included and must be ordered separately.

**Ordering ICF SS valve station (continued)**
**ICF SS with four modules**

Function	Module Type	Can be installed in these locations			
ICFS SS	Stop valve module	M1	M2	M3	M4
ICFR SS	Manual regulating valve module	M1	M2	M3	M4
ICFF SS	Filter (strainer) module		M2		M4
ICFE SS	Solenoid valve module			M3	
ICFC SS	Check valve module				M4
ICFN SS	Stop / check valve module				M4
ICM SS	Motor valve module	M1		M3	
ICFB SS	Blank top cover	M1	M2	M3	M4
ICFA SS	Electronic expansion valve module (for ICF SS 20 only)	M1		M3	
ICFE SS 20H	Solenoid valve module (for ICF SS 20 only)	M1		M3	
ICFO SS	Manual opening module				M4
ICFW SS	Welding module	M1	M2	M3	M4

**ICF SS with six modules**

Function	Module Type	Can be installed in these locations					
ICFS SS	Stop valve module	M1	M2	M3	M4	M5	M6
ICFR SS	Manual regulating valve module	M1	M2	M3	M4	M5	M6
ICFF SS	Filter (strainer) module		M2		M4		M6
ICFE SS	Solenoid valve module			M3			
ICFC SS	Check valve module				M4		M6
ICFN SS	Stop/check valve module				M4		M6
ICM SS	Motor valve module	M1		M3		M5	
ICFB SS	Blank top cover	M1	M2	M3	M4	M5	M6
ICFA SS	Electronic expansion valve module (for ICF SS 20 only)	M1		M3		M5	
ICFE SS 20H	Solenoid valve module (for ICF SS 20 only)	M1		M3		M5	
ICFO SS	Manual opening module				M4		
ICFW SS	Welding module	M1	M2	M3	M4	M5	M6

Module locations are indicated by M1, M2, M3, M4, M5 and M6. With respect to refrigerant flow, M1 is closest to inlet.

location not possible

**Ordering accessories**
**Blind SS plug**

	Quantity	Code no.
	2 pcs. 3/8" RG	027L4811

**Connector SS 1/2 in. - 3/8 in.**

	Quantity	Code no.
	2	027L4810

**Sight glass**

	Quantity	Code no.
	2 pcs. 3/8" G	027L4812

**1/2 in. weld connector SS**

	Quantity	Code no.
	2	148B4689

**Adapter SS G3/8 - 3/8 FPT**

	Quantity	Code no.
	2	027L4813

**ICAD 600A**

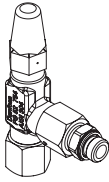

Description		Code no.
ICAD 600A		With 1,5m cable 027H9075
ICAD 600A		Without cables 027H9120
Cable		Cable set 10 m. 027H0427
Cable		Cable set 15 m. 027H0435
Connector		Connector set female 027H0430
Protection cap		Protection cap for ICAD 027H0431

ICAD details see literature: DKRCI.PD.HT0.B

**Data sheet | Valve Station in stainless steel, types ICF SS 20 and ICF SS 25**

Ordering accessories  
(continued)

**SNV-SS**

Description		Code no.
<b>SNV-SS</b> for ICF SS 20/SS 25 DIN butt weld connection. Side connection: G ½ in. Bottom connection: G ½ in. Included: Adapter SS (G ½ in. - G ¾ in.)		<b>148B6545</b>
<b>SNV SS</b> for ICF SS 20/SS 25 DIN butt weld connection. Side connection: ¾ in. FPT Bottom connection: ¾ in. MPT Included: Adapter SS (¾ FPT - G ¾ in.)		<b>148B3750</b>

**Coils**

Valve type	Voltage V	Frequency Hz	Code no.			Appendix no.*)	Power consumption
			With 1 m 3-core cable IP 67	With terminal box IP 67	With DIN plugs**)		

*Alternating current AC*

ICFE	12	50		<b>018F6706</b>		15	Holding: 10 W 21 VA
	24	50	<b>018F6257</b>	<b>018F6707</b>	<b>018F7358</b>	16	
	220 – 230	50	<b>018F6251</b>	<b>018F6701</b>	<b>018F7351</b>	31	Inrush: 44 VA
	115	60	<b>018F6260</b>	<b>018F6710</b>		20	

*Direct current DC (can not be used for ICF SS 20 configurations with ICM module) Coil type I*

ICFE/ICFA	12			<b>018F6856</b>		01	20 W
	24			<b>018F6857</b>		02	

*Special coils for ICFE (can not be used for ICF SS 20 configurations with ICM module)*

Valve type	Voltage V	Frequency Hz	Code no.		Appendix no. Indicates voltage and frequency	Power consumption
			With terminal box IP 67			

*Alternating current AC*

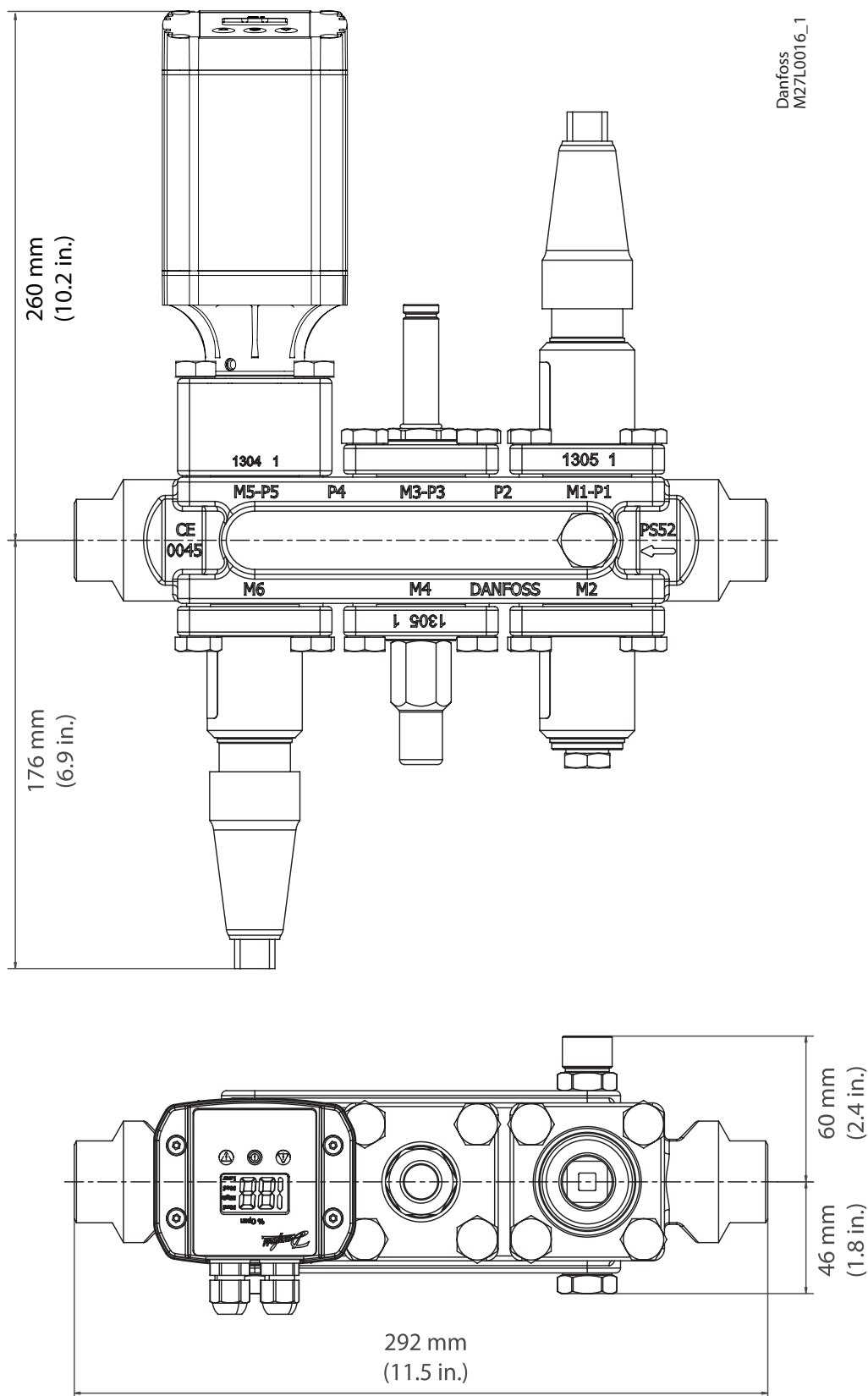
ICFE	24	50	<b>018F6807</b>	16	Holding: 12 W 26 VA
	110	50	<b>018F6811</b>	22	
	220 – 230	50	<b>018F6801</b>	31	Inrush: 55 VA

For other coil types please refer to the technical leaflets for EVRA or AKVA valves

Dimensions

ICF SS 20-6

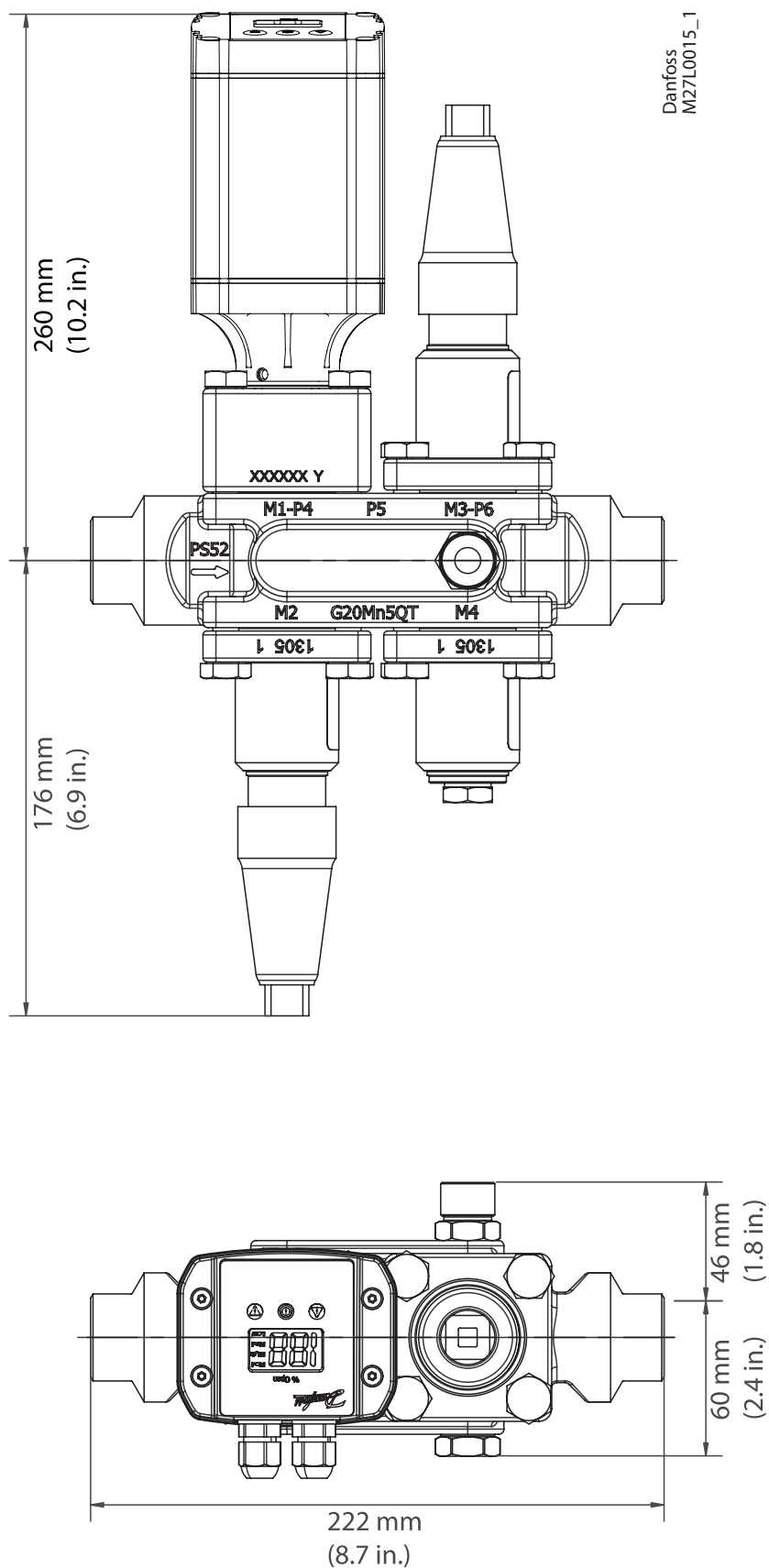
This example indicates the maximum dimensions for the ICF SS valve stations.



Dimensions (continued)

ICF SS 20-4

This example indicates the maximum dimensions for the ICF SS valve stations.

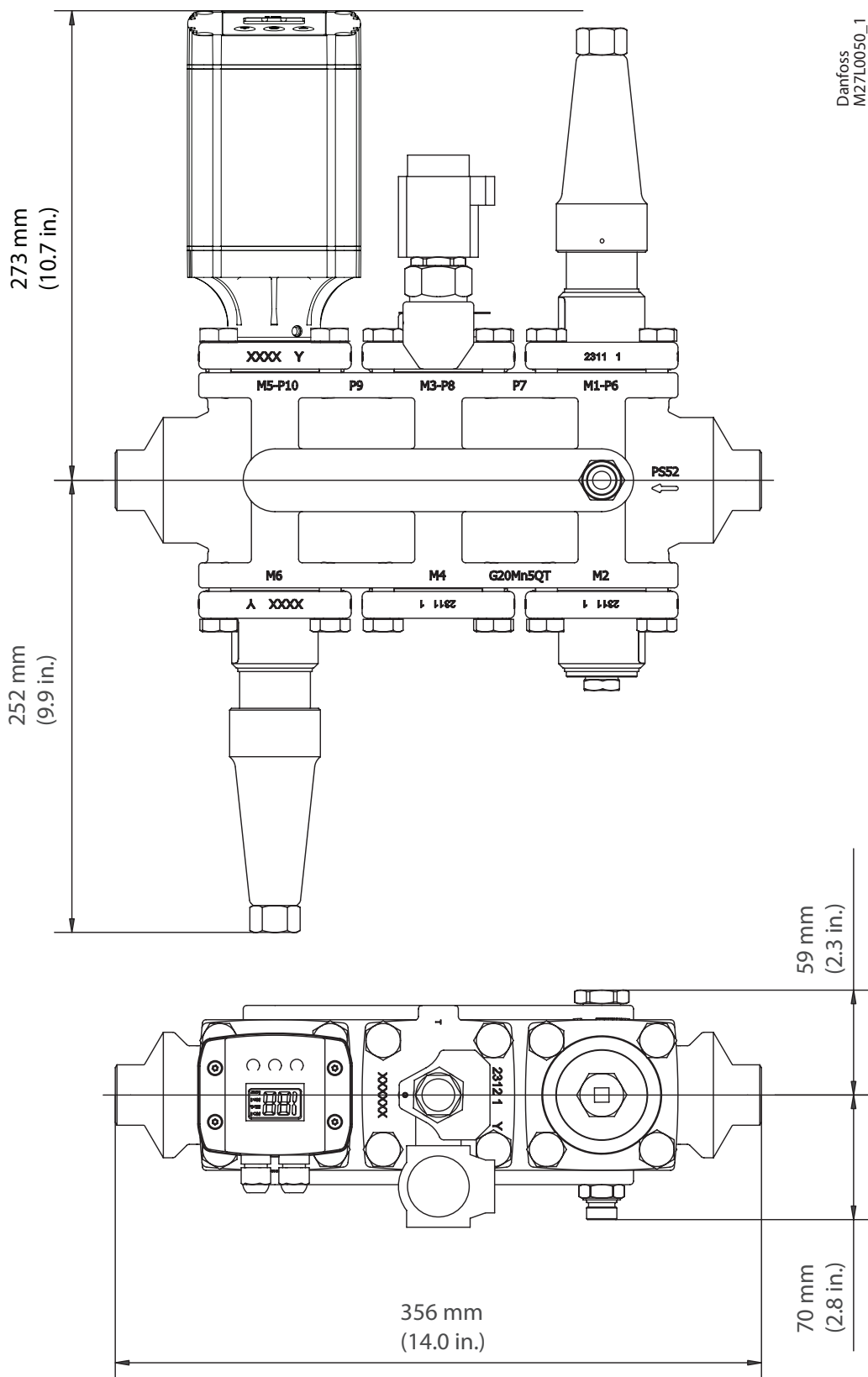




Dimensions (continued)

ICF SS 25-6

This example indicates the maximum dimensions for the ICF SS valve stations.



Dimensions (continued)

ICF SS 25-4

This example indicates the maximum dimensions for the ICF SS valve stations.

