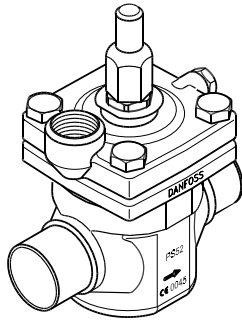


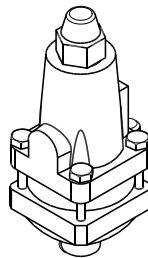
CO₂ Hot Gas Defrosting using **high-pressure** pilot valve CVP (XP)

To ensure an efficient and a stable hot-gas defrost process, Danfoss offers a unique and excellent solution, which is a servo operated valve (ICS) mounted with a high-pressure pilot type CVP(XP). The pilot valve operates on installations in the range from 25 bar (363 psig) to 52 bar (754 psig) max. working pressure.





ICS
Servo operated valve



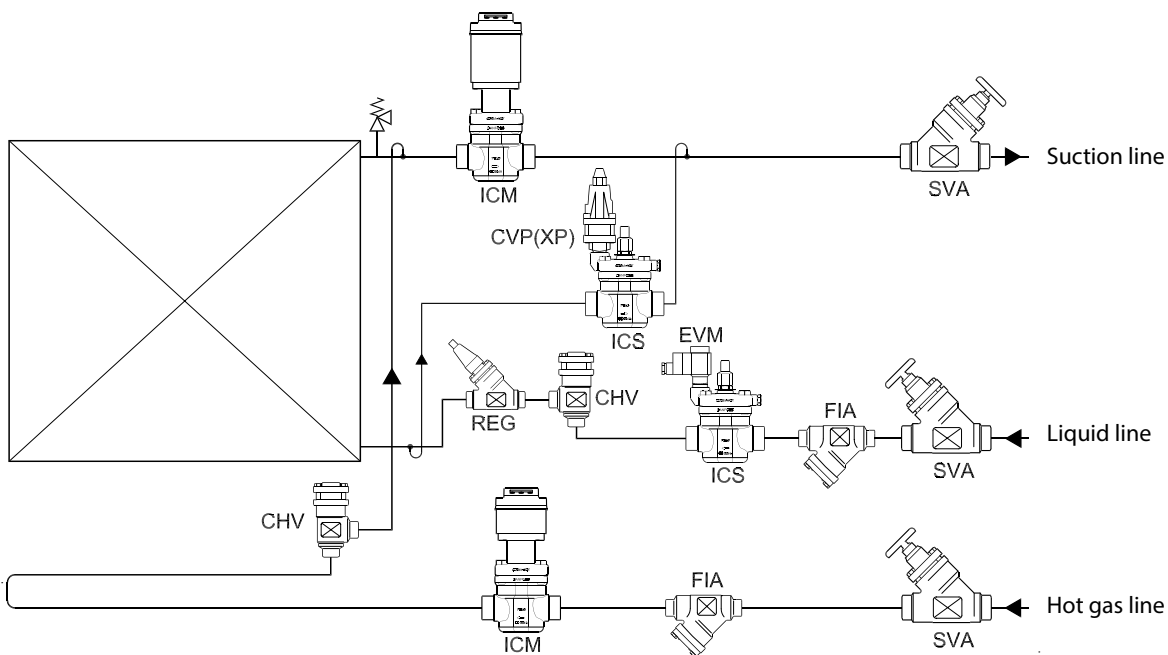
CVP(XP)
High-pressure pilot valve



**The best solution
for CO₂ hot gas
defrosting**

The hot-gas capacity of the ICS

Valve type	Defrosting temperature	[°C]	+10				
		[bar]	45.0				
	Evaporating temperature	[°C]	0	-10	-20	-30	-40
		[bar]	34.9	26.5	19.7	14.3	10.1
ICS 25-5	Defrosting capacity	[kW]	217	298	351	386	408
	Defrosting mass flow	[kg/h]	3792	5110	5969	6573	7004
ICS 25-10	Defrosting capacity	[kW]	371	509	600	659	697
	Defrosting mass flow	[kg/h]	6477	8728	10195	11227	11963
ICS 25-15	Defrosting capacity	[kW]	552	758	893	982	1038
	Defrosting mass flow	[kg/h]	9647	13000	15185	16722	17818



The figure shows the evaporator in a CO₂ refrigeration plant with flooded evaporation and with pump circulation. In this application

the constant defrost pressure regulation is made by means of an ICS mounted with a high-pressure pilot valve type CVP(XP).