



# Data sheet

# Pilot valves for pilot operated servo valves



#### Features

- Applicable to all common non flammable refrigerants including R 717 and non corrosive gases/liquids dependent on sealing material compatability.
- The pilot valves can be screwed direct into the main valve, thus avoiding the necessity of welding, soldering and separate pilot lines.
- The pilot valves can be mounted direct in a ICS or PM main valve or be connected via an external pilot line and a CVH housing.
- All pilot valves can be used on all sizes of main valves.

- The range of pilot valves consists of:
- Constant-pressure pilot valve, type CVP (LP) and CVP (HP)
- Differential-pressure pilot valve, type CVPP (LP) and CVPP (HP)
- High pressure pilot valve, type CVP (XP) ideal for CO<sub>2</sub> hot gas defrosting
- Pressure-operated pilot valve with reference
  pressure connection, type CVC
- Electronically operated constant-pressure pilot valve, type CVQ (pressure-dependent)
- Solenoid pilot valve, type EVM (NC)
- Solenoid pilot valve, type EVM (NO)
- Housing, type CVH for pilot valves, for mounting in external pilot lines

- Extremely accurate pressure and temperature control.
- Several pilot valves can be connected in series or in parallel to provide many functions in the same ICS or PM main valve.
- All pilot valves are delivered with gaskets.
- Classification: DNV, CRN, BV, EAC etc. To get an updated list of certification on the products please contact your local Danfoss Sales Company.



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Design	Each pilot valve is designed to give the optimum control accuracy within the specific function range of the valve. Several pilot valves can be mounted in series and/or in parallel on a ICS or PM main valve to give a very large number of functions.	Mounted in a CVH housing, the pilot valves can be used in external lines, either as independently operating valves or as external control valves for the main valve. The pilot valves can be used for all sizes of ICS or PM main valves.
Technical data	<i>Refrigerants</i> Applicable to all common non flammable refrigerants including R 717 and non corrosive gases/liquids dependent on sealing material compatability. For further information please see installation instruction for ICS valves or PM valves.	Flammable hydrocarbons are not recommended. For further information please contact your local Danfoss Sales Company. Temperature and pressure ranges are given separately for the specific pilot valve.



**Constant-pressure pilot** valve, type CVP (LP) and CVP (HP)

The  $k_y/C_y$  value is measured with the pilot valve mounted in a CVH housing for external pilot lines. The value can vary slightly, depending on the setting

When CVP (HP) is used at a temperature lower than  $-50^{\circ}$ C ( $-58^{\circ}$ F) the bolts must be replaced with stainless steel bolts

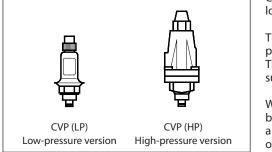
The low-pressure version (LP) is not a serviceable type of pilot and it is recommended to be replaced after

value.

(type 4, quality 80).

max. 7 years in operation.

#### Design and function



CVP is a constant-pressure pilot valve available in low-pressure and high-pressure versions.

The pilot valve is used to maintain a constant pressure on the ICS or PM main valve inlet side. The low-pressure version (LP) must not be subjected to pulsation.

When a CVP is mounted in a CVH housing, it can be used as a separate constant-pressure valve or a pressure relief valve (e.g. to prevent hydraulic overpressure in an entrapped liquid).

#### Technical data, SI units MWP: Maximum working pressure.

Valve type	MWP	k <sub>v</sub> -value	Temperature range	Pressure range	Code no.
Low-pressure ver	rsion				
CVP (LP)	17 bar g	0.40 m <sup>3</sup> /h	-50 to 120°C	0 bar g to 7 bar g	027B1100
CVP (LP)	17 bar g	0.40 m³/h	–50 to 120°C	–0.66 bar g to 2 bar g	027B1101
High-pressure ve	ersion				
CVP (HP)	28 bar g	0.40 m³/h	–50 to 120°C	4 bar g to 22 bar g	027B1160
CVP (HP)	28 bar g	0.40 m³/h	–50 to 120°C	4 bar g to 28 bar g	027B1161
CVP (HP)	28 bar g	0.40 m³/h	–50 to 120°C	–0.66 bar g to 7 bar g	027B1164
CVP (HP)	40 bar g	0.40 m³/h	–50 to 120°C	4 bar g to 28 bar g	027B1261

#### Technical data, US units

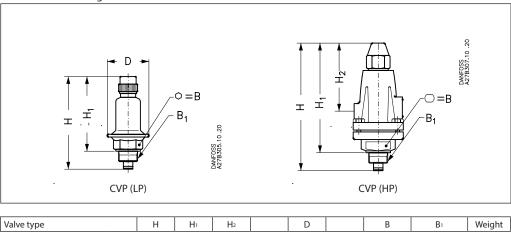
Valve type	MWP	C <sub>v</sub> -value	Temperature range	Pressure range	Code no.
Low-pressure	e version				
CVP (LP)	247 psi g	0.46 US gal/min	-58 to 248°F	0 psi g to 102 psi g	027B1100
CVP (LP)	247 psi g	0.46 US gal/min	–58 to 248°F	19.5 in. Hg to 29 psi g	027B1101

High-pressure version

ingii pressure ver	51011				
CVP (HP)	406 psi g	0.46 US gal/min	–58 to 248°F	58 psi g to 319 psi g	027B1160
CVP (HP)	406 psi g	0.46 US gal/min	–58 to 248°F	58 psi g to 406 psi g	027B1161
CVP (HP)	406 psi g	0.46 US gal/min	–58 to 248°F	19.5 in. Hg to 102 psi g	027B1164
CVP (HP)	580 psi g	0.46 US gal/min	–58 to 248°F	58 psi g to 406 psi g	027B1261

P-band for a valve system regulated by CVP and ICS or PM main valve: < 0.2 bar g (2.9 psi g)

#### Dimensions and weights



Low-pressure version								
	mm	122	98		53	22	M 24 1 F	0.4 kg
CVP (LP)	in.	4.80	3.86		2.09	32	M 24 × 1.5	0.88 lb.
High-pressure version								

CVP (HP)	mm	170	146	90		22	M 24 × 1.5	1.7 kg
CVP (HP)	in.	6.69	5.75	3.54		32	IVI 24 × 1.5	3.75 lb.

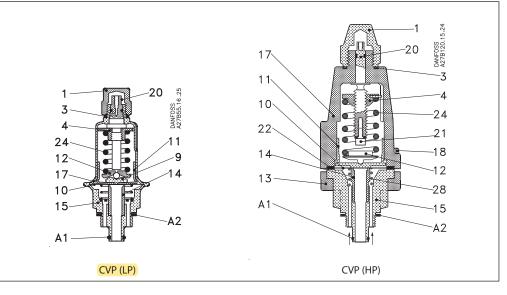
Weights are approximate values only



### Constant-pressure pilot valve, type CVP (LP) and CVP (HP)

(continued)

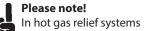
Material specification



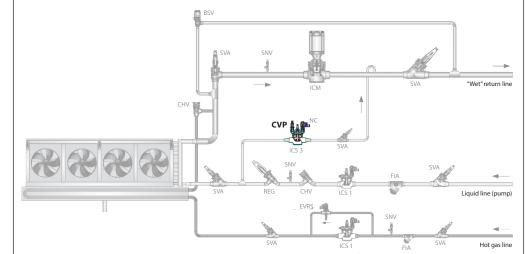
# CVP (LP)

No.	Part	Material	
A1	O-ring	Cloroprene (Neoprene)	
A2	Seal	Non-asbestos	
1	Protective cap	Steel	
3	Seal	Cloroprene (Neoprene)	
4	Nut	Stainless steel	
9 Ball socket		Stainless steel	
10	Diaphragm	Stainless steel	
11	Thrust pad	Steel	
12	Spring guide	Stainless steel	
14	Orifice	Stainless steel	
15	Base	Steel	
17 Valve bonnet		Low temperature cast iron (spherical)	
20	Setting spindle	Stainless steel	
24	Spring	Steel	

No.	Part	Material		
A1	O-ring	Cloroprene (Neoprene)		
A2	Seal	Non-asbestos		
1	Protective cap	Steel		
3	Seal	Non-asbestos		
4	Nut	Stainless steel		
10	Diaphragm	Stainless steel		
11	Thrust pad	Stainless steel		
12	Spring guide	Stainless steel		
13	Flange	Low temperature cast iron (spherical)		
14	Orifice	Stainless steel		
15	Base	Steel		
17	Valve bonnet	Low temperature cast iron (spherical)		
18	Cover bolt	Steel		
20	Setting spindle	Stainless steel		
21	Screw (M6 × 10)	Steel		
22	Cover gasket	Non-asbestos		
24	Spring	Steel		
28	Spring	Steel		



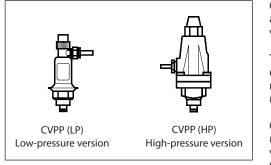
The not gas relief systems Danfoss recommends the use of **CVP-HP** due to the robust design suitable for pulsations and temperature fluctuations. CVP-LP is not recommended.





Differential-pressure pilot valve, type CVPP (LP) and CVPP (HP)

### Design and function



CVPP is a differential-pressure pilot valve available in low-pressure and high-pressure versions.

The pilot valve is used to maintain a constant differential pressure between the CVPP valve reference pressure connection and the ICS or PM main valve inlet pressure.

CVPP incorporates a diaphragm so that the reference pressure and the refrigerant in the valve are physically separated. The pilot valve can therefore also be used as a pneumatic control valve either to control a ICS or PM main valve or as a separate pneumatic valve mounted in a CVH housing.

#### Technical data, SI units

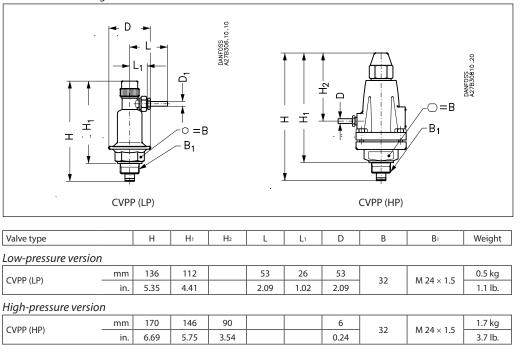
Valve type	MWP	k-value	Temperature range	Pressure range ( $\Delta p$ )	Code no.			
Low-pressure version								
CVPP (LP)	17 bar g	0.40 m³/h	–50 to 120°C	$\Delta p = 0$ to 7 bar g	027B1102			
High-pressure version								
CVPP (HP)	28 bar g	0.40 m³/h	–50 to 120°C	$\Delta p = 0$ to 7 bar g	027B1162			
CVPP (HP)	40 bar g	0.40 m³/h	–50 to 120°C	$\Delta p = 4$ to 22 bar g	027B1268			

#### Technical data, **US units**

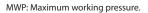
Valve type	MWP	C <sub>v</sub> -value	Temperature range	Pressure range (∆p)	Code no.
Low-pressure vers	sion				
CVPP (LP)	247 psi g	0.46 USgal/min	–58 to 248°F	$\Delta p = 0$ to 102 psi g	027B1102
High-pressure ver	rsion				
CVPP (HP)	406 psi g	0.46 USgal/min	–58 to 248°F	$\Delta p = 0$ to 102 psi g	027B1162
CVPP (HP)	580 psi g	0.46 USgal/min	–58 to 248°F	$\Delta p = 58$ to 319 psi g	027B1268

P-band for a valve system regulated by CVPP and ICS or PM main valve: <0.2 bar g (2.9 psi g).

#### Dimensions and weights



Weights are approximate values only



The k<sub>v</sub>/C<sub>v</sub> value is measured with the pilot valve mounted in a CVH housing for external pilot lines. The value can vary slightly, depending on the setting value.

When CVPP (HP) is used at a temperature lower than -50°C (-58°F) the bolts must be replaced with stainless steel bolts (type 4, quality 80).

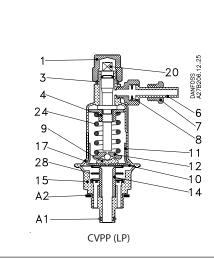
The low-pressure version (LP) is not a serviceable type of pilot and it is recommended to be replaced after max. 7 years in operation.

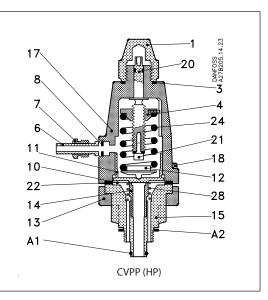


# Differential-pressure pilot valve, type CVPP (LP) and CVPP (HP)

(continued)

Material specification





### CVPP (LP)

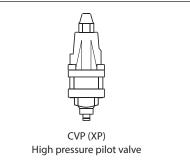
No.	Part	Material
A1	O-ring	Cloroprene (Neoprene)
A2	Seal	Non-asbestos
1	Protective cap	Steel
3	Seal	Cloroprene (Neoprene)
4	Nut	Stainless steel
6	Nipple	Steel
7	Union nut	Steel
8	Seal	Aluminium
9	Ball socket	Stainless steel
10	Diaphragm	Stainless steel
11	Thrust pad	Steel
12	Spring guide	Stainless steel
14	Orifice	Stainless steel
15	Base	Steel
17	Valve bonnet	Low temperature cast iron (spherical)
20	Setting spindle	Stainless steel
24	Spring	Steel
28	Spring	Steel

No.	Part	Material
A1	O-ring	Cloroprene (Neoprene)
A2	Seal	Non-asbestos
1	Protective cap	Steel
3	Seal	Non-asbestos
4	Nut	Stainless steel
6	Nipple	Steel
7	Union nut	Steel
8	Seal	Aluminium
10	Diaphragm	Stainless steel
11	Thrust pad	Stainless steel
12	Spring guide	Stainless steel
13	Flange	Low temperature cast iron (spherical)
14	Orifice	Stainless steel
15	Base	Steel
17	Valve bonnet	Low temperature cast iron (spherical)
18	Cover bolt	Steel (8.8)
20	Setting spindle	Stainless steel
21	Screw (M6 × 10)	Steel
22	Cover gasket	Non-asbestos
24	Spring	Steel
28	Spring	Steel



High pressure pilot valve, type CVP (XP)

Design and function



CVP (XP) is a constant-pressure pilot valve available in high-pressure version. The CVP (XP) ensures an efficient and stable  $CO_2$  hot gas defrost process.

The pilot valve is used to maintain a constant pressure on the ICS or PM main valve inlet side.

When a CVP is mounted in a CVH housing, it can be used as a separate constant-pressure valve or a pressure relief valve (e.g. to prevent hydraulic overpressure in an entrapped liquid).

MWP: Maximum working pressure.

The  $k_\nu/C_\nu$  value is measured with the pilot valve mounted in a CVH housing for external pilot lines. The value can vary slightly, depending on the setting value.

### Technical data, **SI units**

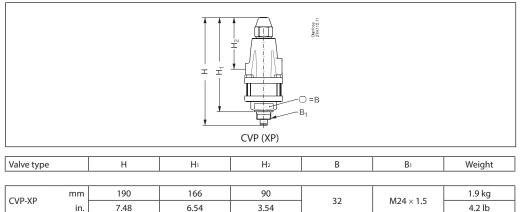
Valve type	MWP	k <sub>v</sub> -value	Temperature range	Pressure range	Code no.
High-pressure ver	rsion				
CVP (XP)	52 bar g	0.45 m³/h	–50 to 120°C	25 bar g to 52 bar g	027B0080
CVP (XP)	52 bar g	0.45 m³/h	–50 to 120°C	10 bar g to 40 bar g	027B0090

# Technical data, **US units**

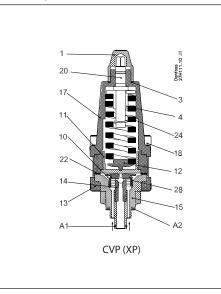
Valve type	MWP	C <sub>v</sub> -value	Temperature range	Pressure range	Code no.
High-pressure ve	rsion				
CVP (XP)	754 psi g	0.52 USgal/min	–58 to 248°F	363 psi g to 754 psi g	027B0080
CVP (XP)	754 psi g	0.52 USgal/min	–58 to 248°F	145 psi g to 580 psi g	027B0090

P-band for a valve system regulated by CVP and ICS or PM main valve: < 1.6 bar g (23.2 psi g)

### Dimensions and weights



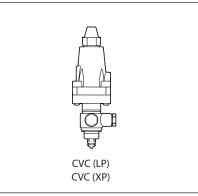
#### Material specification



CVP (Xł	2)	
No.	Part	Material
1	Protective cap	Steel
3	Seal	Cloroprene (Neoprene)
4	Nut	Stainless steel
10	Diaphragm	Stainless steel
11	Thrust pad	Steel
12	Spring guide	Stainless steel
13	Flange	Low temperature cast iron (spherical)
14	Orifice	Stainless steel
15	Base	Steel
17	Valve bonnet	Low temperature cast iron (spherical)
18	Cover bolt	Stainless steel
20	Setting spindle	Stainless steel
22	Cover gasket	Non-asbestos
24	Spring	Steel
28	Spring	Steel
A1	O-ring	Cloroprene (Neoprene)
A2	Seal	Non-asbestos



Pressure-operated pilot valve with reference pressure connection, type CVC Design and function



CVC is a pressure-operated pilot valve with a connection that can be used to obtain an indication of the system reference pressure. CVC valves are used:

- together with a PMC main valve to regulate capacity using hot gas bypass;
- together with a ICS or PM main valve to regulate max. suction pressure, e.g. as a compressor crankcase pressure regulator;
- together with a ICS or PM main valve as a pressure limiter, e.g. for hot gas defrost of hot gas lines.

### Technical data, SI units

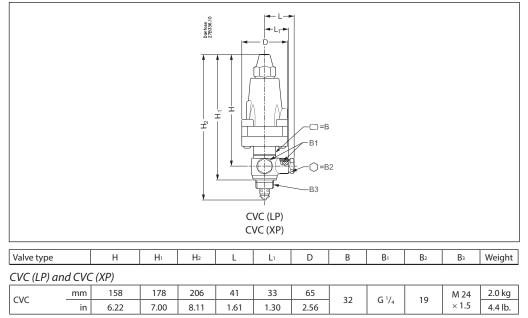
Valve type	MWP	k <sub>v</sub> -value	Temperature range	Pressure range	Code no.
Low-pressure	version				
CVC (LP)	28 bar g	0.20 m³/h	–50 to 120°C	–0.5 bar g to 9 bar g	027B1080
High-pressure version					
CVC (XP)	52 bar g	0.20 m³/h	-50 to 120°C	4 bar g to 28 bar g	027B0087

#### Technical data, **US units**

Valve type	MWP	C <sub>v</sub> -value	Temperature range	Pressure range	Code no.
Low-pressure v	version				
CVC (LP)	406 psi g	0.23 USgal/min	–58 to 248°F	14.8 in. Hg to 131 psi g	027B1080
High-pressure version					
CVC (XP)	754 psi g	0.23 USgal/min	–58 to 248°F	58 psi g to 406 psi g	027B0087

P-band for a valve system regulated by CVC and ICS/PM/PMC: < 0.3 bar g (4.4 psi g)

### Dimensions and weights



Weights are approximate values only

The reference pressure must be connected to the low-pressure side of the system.

The  $k_{\rm v}/C_{\rm v}$  value is measured with the pilot valve mounted in a CVH housing for external pilot lines. The value can vary slightly, depending on the setting value.

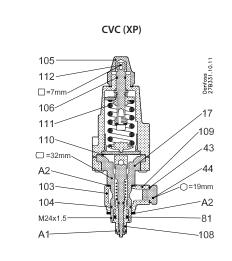
© Danfoss | DCS (MWA) | 2016.04

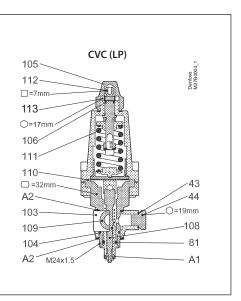


#### Pressure-operated pilot valve with reference pressure connection, type CVC

(continued)

Material specification





# CVC (XP)

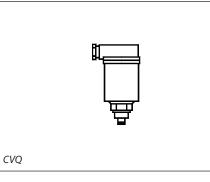
No.	Part	Material
43	Seal	Aluminium
44	Blanking plug for pressure gauge connection	Stainless steel
81	O-ring	Cloroprene (Neoprene)
103	Banjo fitting	Steel
104	O-ring	Cloroprene (Neoprene)
105	Protective cap	Steel
106	O-ring	Cloroprene (Neoprene)
108	Pilot orifice	Stainless steel
109	Connector on banjo fitting 103	Steel
110	Diaphragm	Stainless steel
111	Spring	Steel
112	Setting spindle	Stainless steel
17	Valve body	Steel
A1	O-ring	Cloroprene (Neoprene)
A2	Seal	Non-asbestos

CVC (L	.P)	
No.	Part	Material
43	Seal	Aluminium
44	Blanking plug for pressure gauge connection	Steel
81	O-ring	Cloroprene (Neoprene)
103	Banjo fitting	Steel
104	O-ring	Cloroprene (Neoprene)
105	Protective cap	Steel
106	O-ring	Cloroprene (Neoprene)
108	Pilot orifice	Stainless steel
109	Connector on banjo fitting 103	Steel
110	Diaphragm	Stainless steel
111	Spring	Steel
112	Setting spindle	Steel
113	Nut (M10, HEX 17)	Steel
17	Valve body	Steel
A1	O-ring	Cloroprene (Neoprene)
A2	Seal	Graphite



#### Electronically operated constant-pressure pilot valve, type CVQ (pressuredependent)

### Design and function



CVQ is an electronically operated constantpressure pilot valve that functions together with the EKC 361 electronic system or an EKC 366 controller.

CVQ enables the electronic (and thus the remote) control of a ICS or PM main valve.

The CVQ valve is used to maintain a constant pressure at the ICS or PM main valve inlet side and can, via suction pressure regulation, very accurately control the temperature of a medium from an air or liquid cooler, etc.

### Technical data, SI units

Valve type	MWP	k <sub>v</sub> -value	Pressure range	Code no.
CVQ	17 bar g	0.45 m³/h	–1 bar g to 5 bar g	027B1139
CVQ	17 bar g	0.45 m³/h	0 bar g to 6 bar g	027B1140
CVQ	17 bar g	0.45 m³/h	1.7 bar g to 8 bar g	027B1141

#### Technical data, **US units**

Valve type	MWP	C <sub>v</sub> -value	Pressure range	Code no.
CVQ	246 psi g	0.52 USgal/min	–29.5 in. Hg to 72.5 psi g	027B1139
CVQ	246 psi g	0.52 USgal/min	0 psi g to 87 psi g	027B1140
CVQ	246 psi g	0.52 USgal/min	24.7 psi g to 116 psi g	027B1141

The P-band for a valve system regulated by CVQ and ICS or PM depends on the control parameters of the EKC 361 or EKC 366.

### Electrical data

Supply voltage	24V a.c. ±10%
Frequency	50 to 60 Hz
Power consumption, operation start	50 VA 75 VA
Enclosure	NEMA 3 / IP 55
Cable entry	Pg 13.5
Ambient temperature, operation transport	-30 to 50°C (−22 to 122°F) -50 to 70°C (−58 to 158°F)
CE-marking	EMC-Directive 89/336/EEC, EMC-Directiv 89/336/ EN 50081-1 and EN 50082-1

### Dimensions and weights

mm

in.

CVQ

141

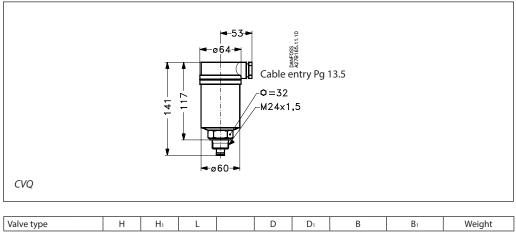
5.55

117

4.61

53

2.09



64

2.52

60

2.36

32

MWP: Maximum working pressure. The  $k_v/C_v$  value is measured with the

pilot valve mounted in a CVH housing for external pilot lines. The value can vary slightly, depending on the setting value.

M 24 × 1.5

0.4 kg

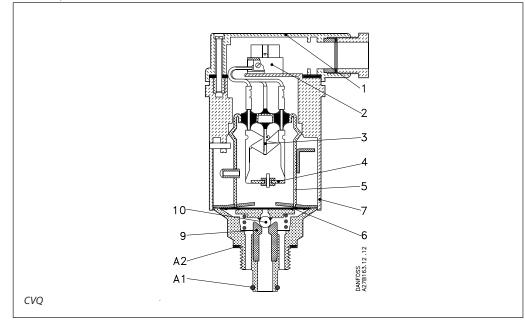
0.9 lb.



#### Electronically operated constant-pressure pilot valve, type CVQ (pressuredependent)

(continued)

Material specification



### Design and function

CVQ consists of a reservoir containing a charge at a given pressure, a heating element and a temperature sensor.

When the temperature in the container is regulated, the corresponding and precise pressure change created changes the degree of opening of the orifice (9 and 10) and thus the control pressure sent by the CVQ valve to the connected ICS or PM main valve.

If pressure in the container becomes too high, an internal protection system short-circuits the heating element and thus stops pressure buildup.

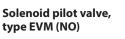
### CVQ

No.	Part	Material
1	Cover	Plastic
2	Connection terminals	
3	NTC resistor	
4	PTC resistor (heating element)	
5	Reservoir	Steel
6	Diaphragm	Stainless steel
7	Capsule	Plastic
9	Orifice	Stainless steel
10	Thrust pad with throttle ball	Stainless steel
A1	O-ring	Cloroprene (Neoprene)
A2	Seal	Non-asbestos



#### Solenoid pilot valve, type EVM (NC)

# Design and function



MWP: Maximum working pressure. The  $k_v/C_v$  value is measured with the pilot valve mounted in a CVH housing

MOPD: Maximum opening differential pressure with a 10 W a.c. coil.

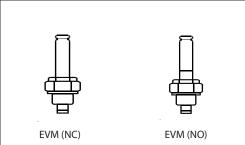
20 W a.c. coil: 40 bar (580 psi)

20 W d.c. coil: 14 bar (203 psi) MCPD: Maximum closing differential pressure with a 10/12 W a.c. coil or a 20

for external pilot lines.

With:

W d.c.coil.



EVM is a solenoid pilot valve for use when on/off operation of the ICS or PM main valve is required. EVM valves are intended for use with Danfoss solenoid valve coils ("Coils for solenoid valves", datasheet RD3JB).

Together with CVH, an EVM can also be used as an independent solenoid valve.

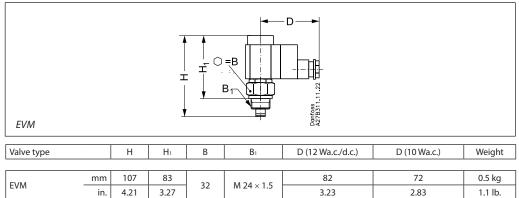
#### Technical data, **SI units**

Valve type	MWP	k <sub>v</sub> -value		Pressure range	Code no.			
Normally closed								
EVM (NC)	65 bar g	0.37 m³/h		MOPD: 21 bar g	027B1120			
Normally open								
EVM (NO)	52 bar g	0.12 m³/h		MCPD: 19 bar g	027B1130			

#### Technical data, **US units**

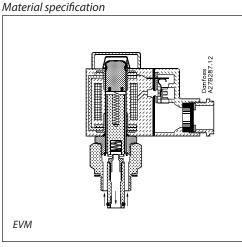
Valve type	MWP	C <sub>v</sub> -value		Pressure range	Code no.		
Normally closed							
EVM (NC)	943 psi g	0.43 USgal/min		MOPD: 305 psi g	027B1120		
Normally open							
EVM (NO)	754 psi g	0.14 USgal/min		MCPD: 276 psi g	027B1130		

#### Dimensions and weights



#### Solenoid pilot valve, type EVM (NC)

#### Solenoid pilot valve, type EVM (NO)



### EVM

EVIVI		
No.	Part	Material
1	Coil	
2	Armature	Stainless steel
3	Armature tube	Stainless steel
A2	Seal	Non-asbestos
A1	O-ring	Cloroprene (Neoprene)
6	Seal	Aluminium
7	Spacing ring	
8	Nut	
9	Lock button	
10	Valve body	Steel
11	Valve seat	Teflon (PTFE)



Code no.

027F1160

Code no.

# Housing for pilot valves, type CVH, for mounting in external pilot lines

DN

6

DN

Internal pipe thread

Weight: 0.4 kg. (0.9 lb.)

<sup>3</sup>/<sub>8</sub> in. butt weld

mm

in.

d

24

0.94

d

dı

19.5

0.77

d١

Н

36

1.42

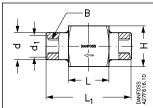
Н

L

36

1.42

L



								•		
Internal pi	ipe th	read								
	mm	24	19.5	36	36	76	<sup>1</sup> / <sub>4</sub> in. NPT		DIN 9SMnPb 28	00751150
6 —	in.	0.94	0.77	1.42	1.42	2.99	1 74 IN. NP I	ANSI B1.20.1	W no. 1.0718	027F1159

Lı

76

2.99

Lı

В

G 1/4 A

Standard

ISO 228-1

Standard

Material

Material

DIN 9SMnPb 28 W no. 1.0718

|--|

|--|

10 -	mm	18	12.7	36	36	70	Weld connection DIN. CK 15.	027F1047
10	in.	0.71	0.5	1.42	1.42	2.76	DIN 2559 - 22 W no. 1.1141	027F1047
Weight: 0.4	4 ka. (0.	9 lb )						
incigina or	. ngi (on							

]	DN		d	d۱	Н	L	Lı	Standard Material Code no.	
	¹/₂ in. bu	tt weld	1						
	15	mm	22	17	36	36	70	Weld connection DIN. CK 15.	
	15 in.	in.	0.87	0.67	1.42	1.42	2.76	DIN 2559 - 22 W no. 1.1141	027F1090
						-		· · · · · · · · · · · · · · · · · · ·	_

Weight: 0.4 kg. (0.9 lb.)

DN		d	d۱	Н	L	Lı	S	Standard	Material	Code no.
<sup>1</sup> /₂ in. soc	cket we	eld								
15	mm	31	22	36	36	70	D	DIN 3259 - T2	DIN. CK 15.	027E1001
15 -	in.	1.22	0.87	1.42	1.42	2.76	A	ASME B.16.113M	W no. 1.1141	027F1091

Weight: 0.4 kg. (0.9 lb.)

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ENGINEERING TOMORROW

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