



**Update 09/2016**  
Specific control valves



# Building HVAC components

Belparts is specialized in the development, production and marketing of components for the automation of HVAC-systems in buildings. We design field components that exactly match market needs. Throughout the development process, we ensure functionality, quality and reliability.

Belparts produces field components for all areas of HVAC, whether production, distribution, or terminal control of heating and cooling, as well as ventilation. Whatever the HVAC-application, we have it covered.

Our field components are designed to be smoothly integrated with any Building Management System (BMS), Direct Digital Controller (DDC), Programmable Logic Controller (PLC), and Supervisory Control and Data Acquisition (SCADA) system.

## A leading player for more than two decades

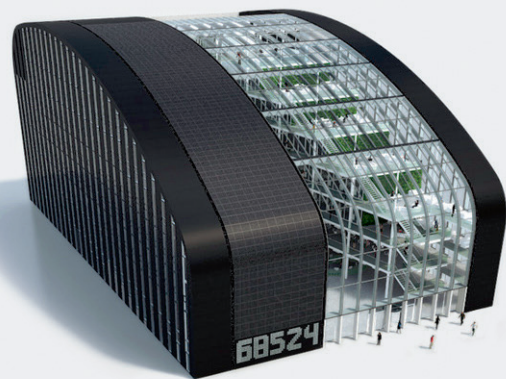
Belparts was established in 1987 by professionals from the HVAC-industry. Since then, we have developed a reputation for intelligent product design and reliable solutions. Our company has enjoyed a healthy success ever since its foundation.

## Market driven innovation

We constantly strive for product and system optimizations. Our engineers incorporate the latest proven technological developments into the design of new HVAC-components and understand how to combine high quality with product affordability.

## Shared competency and values

The Belparts staff shares a common passion for technology, product design, quality, and HVAC-applications. Each of our team members is both customer and results-oriented, and is trained to think 'innovation'. Integrity and responsibility are prerequisites for every employee.



## energetx



Belparts produces a broad range of components that save costs at every single point in your HVAC-system. By selecting the optimal component for each individual situation, considerable amounts of energy can be saved. Our **energetx**-range of products includes control valves, rotating valves, valve and air damper actuators, terminal control valves, and sensors.

## dynamx



Based on our revolutionary Dynamic Flow Networking (DFN) concept, our **dynamx**-valves adjust the flow of energy exactly to the desired conditions. This ensures that only the exact amount of energy is delivered at the right place and at the right time. The result is optimal comfort and reduced energy costs.

# energetx

## 2. Specific control valves



### 3-port control valves

<b>PN6</b>	<b>5</b>
<b>Drinking water (DVGW)</b>	<b>6</b>
<b>PN25</b>	<b>8</b>
<b>PN40</b>	<b>11</b>
<b>Stainless steel</b>	<b>15</b>

### 2-port control valves

<b>PN6</b>	<b>5</b>
<b>Drinking water (DVGW)</b>	<b>16</b>
<b>PN25</b>	<b>18</b>
<b>PN40</b>	<b>21</b>
<b>Stainless steel</b>	<b>25</b>

## Product key

The product identification key contains all essential data defining the unique features of the valve/actuator combination.

Example: type CX3F080A-163U44

<b>CX</b>	<b>3</b>	<b>F</b>	<b>080A</b>	<b>160</b>	<b>U</b>	<b>4</b>	<b>4</b>
<b>Valve</b>			<b>Actuator</b>				
<b>Type control valve</b>							
<b>CX</b> control valve PN25, GGG-40.3							
<b>Number of ports</b>							
<b>2</b> 2-port							
<b>3</b> 3-port							
<b>Connection type</b>							
<b>D</b> threaded							
<b>F</b> flanged							
<b>DN en Kvs value</b>							
<b>080A</b> DN80, Kvs100 m <sup>3</sup> /h							
<b>080B</b> DN80, Kvs80 m <sup>3</sup> /h							
<b>Actuator type</b>							
<b>160</b> force 1600N							
<b>Type of control signal</b>							
<b>F</b> 3-point (3-wire)							
<b>U</b> modulating 0..10Vdc + 3-point (4-wire)							
<b>i</b> modulating 4..20mA + 3-point (4-wire)							
<b>Power supply</b>							
<b>2</b> AC 230 Volt							
<b>4</b> AC 24 Volt							
<b>Running time</b>							
<b>4</b> 4s/mm							

## How to determine the appropriate control valve? It's that simple!

Control valves and actuators may be ordered separately or with a single order reference number. This reference number can easily be derived from the selection table.

- 1 Select the control valve based on the diameter (DN) and Kvs-value (m<sup>3</sup>/h) of the control valve.
- 2 Choose the actuator based on power supply, control signal and actuating force.
- 3 For each combination selected, the maximum differential pressure in kPa, and the unit price can be read from the table.
- 4 Scan the QR code in order to view the corresponding data sheet.

**Motorized 3-port control valves PN40 • DN15..DN32**

- Valve body: cast iron (GS-C25N) (f.0519-N)
- Media: water, condensate or steam (T<sub>c</sub>: -150°C..+150°C)
- A = AB: equal percentage
- Valve actuator: Kvs (EN1348, IV L1)
- Control signal: 0..10Vdc or 4..20mA
- Flanged connection EN1092-2 type 21

DN	TYPE	Kvs	Ss	Price
15	CE3F016A	4	1250	2450
15	CE3F015B	2.5	1,607..	1,770
20	CE3F020A	6.3	1,607..	2,400
20	CE3F020B	5	1,712..	1,870
20	CE3F020C	4	1,920	2,000
20	CE3F020D	2.5	1,930..	1,997
25	CE3F025A	10	1,950	2,050
25	CE3F025B	8	1,805..	1,972

## Overview

		DN	SERIES		PN6	PN16	PN25	PN40			Kvs [m³/h]	Medium T° <sup>1)</sup>	Material valve body	Page
•		15..100	CD3F		•					•	0,63..160	-10..+180°C	GG-25	<sup>5)</sup>
•		15..50	CT3D			•				•	0,63..40	0..+90°C		<b>6</b>
•		15..150 <sup>2)</sup>	CX3F				•			•	2,5..400	-10..+180°C	GGG-40.3	<b>8</b>
•		15..300 <sup>4)</sup>	CE3F			<sup>6)</sup>	<sup>6)</sup>	•		•	2,5..1600 <sup>3)</sup>	-10..+180°C	GS-C25N	<b>11</b>
•		15..300 <sup>4)</sup>	CI3F					•		•	2,5..1600 <sup>3)</sup>	-30..+180°C	RVS 1.4408	<sup>5)</sup>
•		15..100	CD2F		•					•	0,63..160	-10..+180°C	GG-25	<sup>5)</sup>
•		15..50	CT2D			•				•	0,63..40	0..+90°C		<b>16</b>
•		15..150 <sup>2)</sup>	CX2F				•			•	0,16..400	-10..+180°C	GGG-40.3	<b>18</b>
•		15..300 <sup>4)</sup>	CE2F			<sup>6)</sup>	<sup>6)</sup>	•		•	0,16..1600 <sup>3)</sup>	-10..+180°C	GS-C25N	<b>21</b>
•		15..300 <sup>4)</sup>	CI2F					•		•	2,5..1600 <sup>3)</sup>	-30..+180°C	RVS 1.4408	<sup>5)</sup>
<b>Accessories</b>														<b>15</b>

<sup>1)</sup> remarks regarding medium temperature

- when used at low temperatures, a stem heater needs to be applied (order separately).
- when used at higher temperatures: - up to ..+200°C: Fluoraz® sealings (instead of EPDM O-rings)  
- up to ..+350°C: information on request

<sup>2)</sup> also available in sizes DN200 and DN250 (PN16)

<sup>3)</sup> also available with Kvs value 1600 m³/h

<sup>4)</sup> control valves in size DN > DN300: information on request



<sup>5)</sup> on request

<sup>6)</sup> optionally with PN16 or PN25 flanges

The products shown in this catalogue represent just a selection of our broader product range. Don't hesitate to contact us in case you don't find what you are looking for in this catalogue.

### 3-port control valves series CT3D.. PN16 • DN15..DN50



- Valve body: bronze Rg-5 (CC491K)
- Medium: water 0°C..+90°C
- Drinking water (DVGW certification)
- Stem sealing: EPDM O-rings
- Threaded connection ISO 228-1, with coupling parts ISO 7-1 (Rp) <sup>1)</sup>
- Tight sealing EN1349, VI G1

Valve	TYPE	DN	Rp	Kvs [m³/h]	Stroke	PN	Price €/pc
 	CT3D015A	15	1/2"	4	12mm	16bar	285,-
	CT3D015B	15	1/2"	2,5	12mm	16bar	285,-
	CT3D015C	15	1/2"	1,6	12mm	16bar	285,-
	CT3D015D	15	1/2"	1,25	12mm	16bar	285,-
	CT3D015E	15	1/2"	0,63	12mm	16bar	285,-
	CT3D020A	20	3/4"	6,3	12mm	16bar	308,-
	CT3D020B	20	3/4"	5	12mm	16bar	308,-
	CT3D025A	25	1"	10	14mm	16bar	358,-
	CT3D025B	25	1"	8	14mm	16bar	358,-
	CT3D032A	32	1 1/4"	16	14mm	16bar	420,-
	CT3D032B	32	1 1/4"	12,5	14mm	16bar	420,-
	CT3D040A	40	1 1/2"	25	14mm	16bar	514,-
	CT3D040B	40	1 1/2"	20	14mm	16bar	514,-
	CT3D050A	50	2"	40	14mm	16bar	672,-
	CT3D050B	50	2"	31,5	14mm	16bar	672,-

<sup>1)</sup>  each valve is delivered with connection parts ISO 7-1 included: 3 pieces of threaded connection parts and sealings

### Actuators for CT3D.. control valves

- Automatic self-calibration, overload protected
- Manual override with power supply interruption
- IP54
- U<sub>v</sub>: AC 24 Volt or AC 230 Volt
- Y: 3P, 0..10Vdc or 4..20mA
- Fast actuating time: 1,9..4s/mm

Actuator	TYPE	Max. stroke	Force	AC 24 Volt	AC 230 Volt	3P	3P (4 wire)	0..10Vdc	4..20mA	VA	Price €/pc
	100U22.20	20mm	1000N	-	●	-	<sup>2)</sup>	●	-	12	442,-
	100i22.20	20mm	1000N	-	●	-	<sup>2)</sup>	-	●	12	442,-
	100U42.20	20mm	1000N	●	-	-	<sup>2)</sup>	●	-	6	415,-
	100i42.20	20mm	1000N	●	-	-	<sup>2)</sup>	-	●	6	415,-
	160U24.14	14mm	1600N	-	●	-	<sup>2)</sup>	●	-	12	553,-
	160i24.14	14mm	1600N	-	●	-	<sup>2)</sup>	-	●	12	553,-
	160U44.14	14mm	1600N	●	-	-	<sup>2)</sup>	●	-	6	525,-
	160i44.14	14mm	1600N	●	-	-	<sup>2)</sup>	-	●	6	525,-

<sup>2)</sup> 3-point, 4 wire connection

▲ standard

## Motorized 3-port control valves PN16 • DN15..DN50

CT3D..

- Valve body: bronze Rg-5 (CC491K)
- Medium: water 0°C..+90°C
- Drinking water (DVGW certification)
- Electric actuator: 1000N..1600N
- Power supply  $U_v$ : AC 24 Volt or AC 230 Volt
- Control signal Y: 3P, 0..10Vdc or 4..20mA



TYPE	100U42	160U44	$U_v$	Y
	●	●	AC 24 Volt	3P <sup>2)</sup>
	●	●	AC 24 Volt	0..10Vdc
	<sup>1)</sup>	<sup>1)</sup>	AC 24 Volt	4..20mA
	<sup>3)</sup>	<sup>3)</sup>	AC 230 Volt	3P <sup>2)</sup>
	<sup>3)</sup>	<sup>3)</sup>	AC 230 Volt	0..10Vdc
	<sup>3)</sup>	<sup>3)</sup>	AC 230 Volt	4..20mA
	1000N	1600N		

DN	TYPE	Kvs	$\Delta p_s$	
			kPa	Price
15	CT3D015A	4	kPa	1600
			€	<b>700,-</b>
15	CT3D015B	2,5	kPa	1600
			€	<b>700,-</b>
15	CT3D015C	1,6	kPa	1600
			€	<b>700,-</b>
15	CT3D015D	1,25	kPa	1600
			€	<b>700,-</b>
15	CT3D015E	0,63	kPa	1600
			€	<b>700,-</b>
20	CT3D020A	6,3	kPa	1600
			€	<b>723,-</b>
20	CT3D020B	5	kPa	1600
			€	<b>723,-</b>
25	CT3D025A	10	kPa	1500
			€	<b>773,-</b>
25	CT3D025B	8	kPa	1500
			€	<b>773,-</b>
32	CT3D032A	16	kPa	900
			€	<b>835,-</b>
32	CT3D032B	12,5	kPa	900
			€	<b>835,-</b>
40	CT3D040A	25	kPa	550
			€	<b>929,-</b>
40	CT3D040B	20	kPa	550
			€	<b>929,-</b>
50	CT3D050A	40	kPa	350
			€	<b>1.087,-</b>
50	CT3D050B	31,5	kPa	350
			€	<b>1.087,-</b>

- <sup>1)</sup> Y: 4..20mA to be specified when ordering  
<sup>2)</sup> 3-point, 4 wire connection  
<sup>3)</sup> no extra cost: to be defined using data on the previous page  
▲ standard

## Motorized 3-port control valves PN25 • DN15..DN32

## CX3F..

- Valve body: cast iron GGG-40.3 (EN-JS1024)
- Valve leakage  $\leq 0,01\%$  Kvs (EN1349, IV L1)
- Medium: water, condense or steam 0°C..+180°C <sup>1)</sup>
- Control signal Y: 3P, 0..10Vdc or 4..20mA
- A ▶ AB: equal percentage
- Flanged connection EN1092-2 type 21 <sup>2)</sup>



TYPE	103U44 <sup>7)</sup>	163U44	253U42	503U42	PA-N160	U <sub>v</sub>	Y
	●	●	●	●		AC 24 Volt	3P <sup>6)</sup>
	●	●	●	●		AC 24 Volt	0..10Vdc
	<sup>3)</sup>	<sup>3)</sup>	<sup>3)</sup>	<sup>3)</sup>		AC 24 Volt	4..20mA
	<sup>4)</sup>	<sup>4)</sup>	<sup>4)</sup>	<sup>4)</sup>		AC 230 Volt	3P <sup>6)</sup>
						AC 230 Volt	0..10Vdc
						AC 230 Volt	4..20mA
	1kN	1,6kN	2,5kN	5kN		electric	
					2,8kN	pneumatic <sup>5)</sup>	

DN	TYPE	Kvs	Δp <sub>s</sub>		Price				
			kPa	Price					
15	CX3F015A	4	kPa	1250	2400	2500	2500	2500	
			€	1.516,-	1.683,-	2.201,-	2.249,-	<sup>4)</sup>	
15	CX3F015B	2,5	kPa	1250	2400	2500	2500	2500	
			€	1.516,-	1.683,-	2.201,-	2.249,-	<sup>4)</sup>	
20	CX3F020A	6,3	kPa	1250	2400	2500	2500	2500	
			€	1.600,-	1.767,-	2.286,-	2.333,-	<sup>4)</sup>	
20	CX3F020B	5	kPa	1250	2400	2500	2500	2500	
			€	1.600,-	1.767,-	2.286,-	2.333,-	<sup>4)</sup>	
20	CX3F020C	4	kPa	1250	2400	2500	2500	2500	
			€	1.718,-	1.885,-	2.404,-	2.450,-	<sup>4)</sup>	
20	CX3F020D	2,5	kPa	1250	2400	2500	2500	2500	
			€	1.718,-	1.885,-	2.404,-	2.450,-	<sup>4)</sup>	
25	CX3F025A	10	kPa	1050	2050	2500	2500	2500	
			€	1.654,-	1.820,-	2.340,-	2.386,-	<sup>4)</sup>	
25	CX3F025B	8	kPa	1050	2050	2500	2500	2500	
			€	1.654,-	1.820,-	2.340,-	2.386,-	<sup>4)</sup>	
25	CX3F025C	6,3	kPa	1050	2050	2500	2500	2500	
			€	1.771,-	1.938,-	2.457,-	2.504,-	<sup>4)</sup>	
25	CX3F025D	5	kPa	1050	2050	2500	2500	2500	
			€	1.771,-	1.938,-	2.457,-	2.504,-	<sup>4)</sup>	
32	CX3F032A	16	kPa	600	1250	2200	2500	2200	
			€	1.700,-	1.867,-	2.386,-	2.433,-	<sup>4)</sup>	
32	CX3F032B	12,5	kPa	600	1250	2200	2500	2200	
			€	1.700,-	1.867,-	2.386,-	2.433,-	<sup>4)</sup>	
32	CX3F032C	10	kPa	600	1250	2200	2500	2200	
			€	1.826,-	1.993,-	2.512,-	2.559,-	<sup>4)</sup>	
32	CX3F032D	8	kPa	600	1250	2200	2500	2200	
			€	1.826,-	1.993,-	2.512,-	2.559,-	<sup>4)</sup>	

- <sup>1)</sup> with stem heater for media temperatures down to -10°C (order separately)
- <sup>2)</sup> flanged connection according PN25 as a standard: also available with PN16 or PN40 flanges (on request)
- <sup>3)</sup> Y: 4..20mA to be specified when ordering (no extra cost)
- <sup>4)</sup> price on request
- <sup>5)</sup> positioner on request
- <sup>6)</sup> 3-point, 4 wire connection



## Motorized 3-port control valves PN25 • DN40..DN80

CX3F..

- Valve body: cast iron GGG-40.3 (EN-JS1024)
- Valve leakage  $\leq 0,01\%$  Kvs (EN1349, IV L1)
- Medium: water, condense or steam 0°C..+180°C <sup>1)</sup>
- Control signal Y: 3P, 0..10Vdc or 4..20mA
- A ▶ AB: equal percentage
- Flanged connection EN1092-2 type 21 <sup>2)</sup>



TYPE	103U44 <sup>7)</sup>	163U44	253U42	503U42	1003U41	PA-N280	PA-N540	U <sub>v</sub>	Y
	●	●	●	●	●			AC 24 Volt	3P <sup>6)</sup>
	●	●	●	●	●			AC 24 Volt	0..10Vdc
	3)	3)	3)	3)	3)			AC 24 Volt	4..20mA
	4)	4)	4)	4)	4)			AC 230 Volt	3P <sup>6)</sup>
								AC 230 Volt	0..10Vdc
								AC 230 Volt	4..20mA
	1kN	1,6kN	2,5kN	5kN	10kN			electric	
						5kN	9kN	pneumatic <sup>5)</sup>	

DN	TYPE	Kvs	Δp <sub>s</sub>		Price							
			kPa	€	350	750	1400	2500	-	2500	4)	
40	CX3F040A	25	kPa	€	350	750	1400	2500	-	2500	4)	
			€	1.740,-	1.907,-	2.426,-	2.473,-	-	4)			
40	CX3F040B	20	kPa	€	350	750	1400	2500	-	2500	4)	
			€	1.740,-	1.907,-	2.426,-	2.473,-	-	4)			
40	CX3F040C	16	kPa	€	350	750	1400	2500	-	2500	4)	
			€	1.874,-	2.041,-	2.560,-	2.607,-	-	4)			
40	CX3F040D	12,5	kPa	€	350	750	1400	2500	-	2500	4)	
			€	1.874,-	2.041,-	2.560,-	2.607,-	-	4)			
50	CX3F050A	40	kPa	€	-	450	850	1950	-	1700	4)	
			€	-	1.939,-	2.459,-	2.505,-	-	4)			
50	CX3F050B	31,5	kPa	€	-	450	850	1950	-	1700	4)	
			€	-	1.939,-	2.459,-	2.505,-	-	4)			
50	CX3F050C	25	kPa	€	-	450	850	1950	-	1700	4)	
			€	-	2.083,-	2.602,-	2.649,-	-	4)			
50	CX3F050D	20	kPa	€	-	450	850	1950	-	1700	4)	
			€	-	2.083,-	2.602,-	2.649,-	-	4)			
65	CX3F065A	63	kPa	€	-	300	540	1250	2150	1100	4)	
			€	-	2.393,-	2.912,-	2.959,-	3.880,-	4)			
65	CX3F065B	50	kPa	€	-	300	540	1250	2150	1100	4)	
			€	-	2.393,-	2.912,-	2.959,-	3.880,-	4)			
65	CX3F065C	40	kPa	€	-	300	540	1250	2150	1100	4)	
			€	-	2.557,-	3.076,-	3.122,-	4.043,-	4)			
65	CX3F065D	31,5	kPa	€	-	300	540	1250	2150	1100	4)	
			€	-	2.557,-	3.076,-	3.122,-	4.043,-	4)			
80	CX3F080A	100	kPa	€	-	-	350	850	1500	-	1500	4)
			€	-	-	3.306,-	3.352,-	4.273,-	-	4)		
80	CX3F080B	80	kPa	€	-	-	350	850	1500	-	1500	4)
			€	-	-	3.306,-	3.352,-	4.273,-	-	4)		
80	CX3F080C	63	kPa	€	-	-	350	850	1500	-	1500	4)
			€	-	-	3.484,-	3.531,-	4.451,-	-	4)		
80	CX3F080D	50	kPa	€	-	-	350	850	1500	-	1500	4)
			€	-	-	3.484,-	3.531,-	4.451,-	-	4)		

<sup>7)</sup> medium temperature maximum: +150°C






▲ standard

## Motorized 3-port control valves PN25 • DN100..DN150

## CX3F..

- Valve body: cast iron GGG-40.3 (EN-JS1024) <sup>1)</sup>
- Valve leakage ≤0,01% Kvs (EN1349, IV L1)
- Medium: water, condense or steam 0°C..+180°C <sup>2)</sup>
- Control signal Y: 3P, 0..10Vdc or 4..20mA
- A ▶ AB: equal percentage
- Flanged connection EN1092-2 type 21 <sup>3)</sup>



TYPE						U <sub>v</sub>	Y
	●	●	●			AC 24 Volt	3P <sup>7)</sup>
	●	●	●			AC 24 Volt	0..10Vdc
	▲ <sup>4)</sup>	▲ <sup>4)</sup>	▲ <sup>4)</sup>			AC 24 Volt	4..20mA
	▲ <sup>5)</sup>	▲ <sup>5)</sup>	▲ <sup>5)</sup>			AC 230 Volt	3P <sup>7)</sup>
						AC 230 Volt	0..10Vdc
						AC 230 Volt	4..20mA
	2,5kN	5kN	15kN			electric	
				9kN	16kN	pneumatic <sup>6)</sup>	

DN	TYPE	Kvs	Δp <sub>s</sub>						
			kPa	Price					
100	CX3F100A	160	kPa	200	500	-	900		
			€	4.077,-	4.123,-	-	5)		
100	CX3F100B	125	kPa	200	500	-	900		
			€	4.077,-	4.123,-	-	5)		
100	CX3F100C	100	kPa	200	500	-	900		
			€	4.255,-	4.302,-	-	5)		
100	CX3F100D	80	kPa	200	500	-	900		
			€	4.255,-	4.302,-	-	5)		
125	CX3F125A	250	kPa	-	290	950	-	1000	
			€	-	5.479,-	6.447,-	-	5)	
125	CX3F125B	200	kPa	-	290	950	-	1000	
			€	-	5.479,-	6.447,-	-	5)	
125	CX3F125C	160	kPa	-	290	950	-	1000	
			€	-	5.677,-	6.646,-	-	5)	
125	CX3F125D	125	kPa	-	290	950	-	1000	
			€	-	5.677,-	6.646,-	-	5)	
150	CX3F150A	400	kPa	-	190	700	-	700	
			€	-	6.904,-	7.872,-	-	5)	
150	CX3F150B	315	kPa	-	190	700	-	700	
			€	-	6.904,-	7.872,-	-	5)	
150	CX3F150C	250	kPa	-	190	700	-	700	
			€	-	7.102,-	8.070,-	-	5)	
150	CX3F150D	200	kPa	-	190	700	-	700	
			€	-	7.102,-	8.070,-	-	5)	

- <sup>1)</sup> control valves GGG-40.3 also available in sizes DN200 or DN250 (PN16)
- <sup>2)</sup> with stem heater for media temperatures down to -10°C (order separately)
- <sup>3)</sup> flanged connection according PN25 as a standard: also available with PN16 or PN40 flanges (on request)
- <sup>4)</sup> Y: 4..20mA to be specified when ordering (no extra cost)
- <sup>5)</sup> price on request
- <sup>6)</sup> positioner on request
- <sup>7)</sup> 3-point, 4 wire connection
- ▲ standard

## Motorized 3-port control valves PN40 • DN15..DN32

CE3F..



- Valve body: cast iron GS-C25N (1.0619+N)
- Valve leakage  $\leq 0,01\%$  Kvs (EN1349, IV L1)
- Medium: water, condense or steam 0°C..+180°C <sup>1)</sup>
- Control signal Y: 3P, 0..10Vdc or 4..20mA
- A ▶ AB: equal percentage <sup>2)</sup>
- Flanged connection EN1092-2 type 21 <sup>3)</sup>



TYPE	103U44 <sup>8)</sup>	163U44	253U42	503U42	PA-N160	U <sub>v</sub>	Y
	●	●	●	●		AC 24 Volt	3P <sup>7)</sup>
	●	●	●	●		AC 24 Volt	0..10Vdc
	4)	4)	4)	4)		AC 24 Volt	4..20mA
	5)	5)	5)	5)		AC 230 Volt	
	1kN	1,6kN	2,5kN	5kN		electric	
					2,8kN	pneumatic <sup>6)</sup>	

DN	TYPE	Kvs	Δp <sub>s</sub> Price					
				kPa				
15	CE3F015A	4	€	1.250,-	1.774,-	2.293,-	2.340,-	4000
15	CE3F015B	2,5	€	1.250,-	1.774,-	2.293,-	2.340,-	4000
20	CE3F020A	6,3	€	1.250,-	1.879,-	2.398,-	2.445,-	4000
20	CE3F020B	5	€	1.250,-	1.879,-	2.398,-	2.445,-	4000
20	CE3F020C	4	€	1.250,-	1.997,-	2.516,-	2.562,-	4000
20	CE3F020D	2,5	€	1.250,-	1.997,-	2.516,-	2.562,-	4000
25	CE3F025A	10	€	1.050,-	1.972,-	2.491,-	2.538,-	3500
25	CE3F025B	8	€	1.050,-	1.972,-	2.491,-	2.538,-	3500
25	CE3F025C	6,3	€	1.050,-	2.090,-	2.609,-	2.656,-	3500
25	CE3F025D	5	€	1.050,-	2.090,-	2.609,-	2.656,-	3500
32	CE3F032A	16	€	600,-	2.250,-	2.769,-	2.816,-	2200
32	CE3F032B	12,5	€	600,-	2.250,-	2.769,-	2.816,-	2200
32	CE3F032C	10	€	600,-	2.376,-	2.895,-	2.942,-	2200
32	CE3F032D	8	€	600,-	2.376,-	2.895,-	2.942,-	2200

- <sup>1)</sup> with stem heater (order separately) suitable for media temperatures down to -10°C
- <sup>2)</sup> control valve also available with linear control characteristic: information on request
- <sup>3)</sup> flanged connection according PN40 as a standard: also available with PN16 or PN25 flanges (on request)
- <sup>4)</sup> Y: 4..20mA to be specified when ordering (no extra cost)
- <sup>5)</sup> price on request
- <sup>6)</sup> positioner on request
- <sup>7)</sup> 3-point, 4 wire connection
- <sup>8)</sup> medium temperature maximum: +150°C

## Motorized 3-port control valves PN40 • DN40..DN80

CE3F..

- Valve body: cast steel GS-C25N (1.0619+N)
- Valve leakage  $\leq 0,01\%$  Kvs (EN1349, IV L1)
- Medium: water, condense or steam 0°C..+180°C <sup>1)</sup>
- Control signal Y: 3P, 0..10Vdc or 4..20mA
- A ► AB: equal percentage <sup>2)</sup>
- Flanged connection EN1092-2 type 21 <sup>3)</sup>



TYPE	103U44 <sup>8)</sup>	163U44	253U42	503U42	1003U41	PA-N280	PA-N540	U <sub>v</sub>	Y
	●	●	●	●	●			AC 24 Volt	3P <sup>7)</sup>
	●	●	●	●	●			AC 24 Volt	0..10Vdc
	4)	4)	4)	4)	4)			AC 24 Volt	4..20mA
	5)	5)	5)	5)	5)			AC 230 Volt	
	1kN	1,6kN	2,5kN	5kN	10kN			electric	
						5kN	9kN	pneumatic <sup>6)</sup>	

DN	TYPE	Kvs	Δp <sub>s</sub>									
			Price									
40	CE3F040A	25	kPa	350	750	1400	3150	-	4000			
			€	2.200,-	2.366,-	2.886,-	2.932,-	-	5)			
40	CE3F040B	20	kPa	350	750	1400	3150	-	4000			
			€	2.200,-	2.366,-	2.886,-	2.932,-	-	5)			
40	CE3F040C	16	kPa	350	750	1400	3150	-	4000			
			€	2.334,-	2.501,-	3.020,-	3.066,-	-	5)			
40	CE3F040D	12,5	kPa	350	750	1400	3150	-	4000			
			€	2.334,-	2.501,-	3.020,-	3.066,-	-	5)			
50	CE3F050A	40	kPa	-	450	850	1950	-	1700			
			€	-	2.485,-	3.005,-	3.051,-	-	5)			
50	CE3F050B	31,5	kPa	-	450	850	1950	-	1700			
			€	-	2.485,-	3.005,-	3.051,-	-	5)			
50	CE3F050C	25	kPa	-	450	850	1950	-	1700			
			€	-	2.629,-	3.148,-	3.195,-	-	5)			
50	CE3F050D	20	kPa	-	450	850	1950	-	1700			
			€	-	2.629,-	3.148,-	3.195,-	-	5)			
65	CE3F065A	63	kPa	-	300	540	1250	2150	1100	2750		
			€	-	3.254,-	3.773,-	3.820,-	4.741,-	5)	5)		
65	CE3F065B	50	kPa	-	300	540	1250	2150	1100	2750		
			€	-	3.254,-	3.773,-	3.820,-	4.741,-	5)	5)		
65	CE3F065C	40	kPa	-	300	540	1250	2150	1100	2750		
			€	-	3.418,-	3.937,-	3.983,-	4.904,-	5)	5)		
65	CE3F065D	31,5	kPa	-	300	540	1250	2150	1100	2750		
			€	-	3.418,-	3.937,-	3.983,-	4.904,-	5)	5)		
80	CE3F080A	100	kPa	-	-	350	850	1500	-	1500		
			€	-	-	4.549,-	4.596,-	5.516,-	-	5)		
80	CE3F080B	80	kPa	-	-	350	850	1500	-	1500		
			€	-	-	4.549,-	4.596,-	5.516,-	-	5)		
80	CE3F080C	63	kPa	-	-	350	850	1500	-	1500		
			€	-	-	4.728,-	4.774,-	5.695,-	-	5)		
80	CE3F080D	50	kPa	-	-	350	850	1500	-	1500		
			€	-	-	4.728,-	4.774,-	5.695,-	-	5)		

▲ standard

## Motorized 3-port control valves PN40 • DN100..DN150

CE3F..



- Valve body: cast steel GS-C25N (1.0619+N)
- Valve leakage  $\leq 0,01\%$  Kvs (EN1349, IV L1)
- Medium: water, condense or steam 0°C..+180°C <sup>1)</sup>
- Control signal Y: 3P, 0..10Vdc or 4..20mA
- A ▶ AB: equal percentage <sup>2)</sup>
- Flanged connection EN1092-2 type 21 <sup>3)</sup>



TYPE	253U42	503U42	1503U42	PA-N540	PA-N1080	U <sub>v</sub>	Y
	●	●	●			AC 24 Volt	3P <sup>7)</sup>
	●	●	●			AC 24 Volt	0..10Vdc
	4)	4)	4)			AC 24 Volt	4..20mA
	5)	5)	5)			AC 230 Volt	
	2,5kN	5kN	15kN			electric	
				9kN	16kN	pneumatic <sup>6)</sup>	

DN	TYPE	Kvs	Δp <sub>s</sub>					
			kPa	Price				
100	CE3F100A	160	kPa	200	500	-	900	
			€	5.680,-	5.726,-	-	5)	
100	CE3F100B	125	kPa	200	500	-	900	
			€	5.680,-	5.726,-	-	5)	
100	CE3F100C	100	kPa	200	500	-	900	
			€	5.858,-	5.905,-	-	5)	
100	CE3F100D	80	kPa	200	500	-	900	
			€	5.858,-	5.905,-	-	5)	
125	CE3F125A	250	kPa	-	290	950	-	1000
			€	-	7.380,-	8.348,-	-	5)
125	CE3F125B	200	kPa	-	290	950	-	1000
			€	-	7.380,-	8.348,-	-	5)
125	CE3F125C	160	kPa	-	290	950	-	1000
			€	-	7.578,-	8.546,-	-	5)
125	CE3F125D	125	kPa	-	290	950	-	1000
			€	-	7.578,-	8.546,-	-	5)
150	CE3F150A	400	kPa	-	190	700	-	700
			€	-	9.694,-	10.663,-	-	5)
150	CE3F150B	315	kPa	-	190	700	-	700
			€	-	9.694,-	10.663,-	-	5)
150	CE3F150C	250	kPa	-	190	700	-	700
			€	-	9.893,-	10.861,-	-	5)
150	CE3F150D	200	kPa	-	190	700	-	700
			€	-	9.893,-	10.861,-	-	5)





- <sup>1)</sup> with stem heater for media temperatures down to -10°C (order separately)
- <sup>2)</sup> control valve also available with linear control characteristic: information on request
- <sup>3)</sup> flanged connection according PN40 as a standard: also available with PN16 or PN25 flanges (on request)
- <sup>4)</sup> Y: 4..20mA to be specified when ordering (no extra cost)
- <sup>5)</sup> price on request
- <sup>6)</sup> positioner on request
- <sup>7)</sup> 3-point, 4 wire connection
- <sup>8)</sup> medium temperature maximum: +150°C
- ▲ standard

## Motorized 3-port control valves PN40 • DN200..DN300

CE3F..

- Valve body: cast steel GS-C25N (1.0619+N)
- Valve leakage  $\leq 0,01\%$  Kvs (EN1349, IV L1)
- Medium: water, condense or steam 0°C..+180°C <sup>1)</sup>
- Control signal Y: 3P, 0..10Vdc or 4..20mA
- A ▶ AB: equal percentage <sup>2)</sup>
- Flanged connection EN1092-2 type 21 <sup>3)</sup>



TYPE					$U_v$	Y
	●				AC 24 Volt	3P <sup>7)</sup>
	●				AC 24 Volt	0..10Vdc
	<sup>4)</sup>				AC 24 Volt	4..20mA
	<sup>5)</sup>	●			AC 230 Volt	0..10Vdc
	15kN	25kN			electric	
			16kN	32kN	pneumatic <sup>6)</sup>	

DN	TYPE	Kvs	$\Delta p_s$		Price			
			kPa	Price				
200	CE3F200A	630	kPa	370	690	400	850	
			€	16.589,-	<sup>5)</sup>	<sup>5)</sup>	<sup>5)</sup>	
200	CE3F200B	500	kPa	370	690	400	850	
			€	16.589,-	<sup>5)</sup>	<sup>5)</sup>	<sup>5)</sup>	
200	CE3F200C	400	kPa	370	690	400	850	
			€	16.807,-	<sup>5)</sup>	<sup>5)</sup>	<sup>5)</sup>	
200	CE3F200D	315	kPa	370	690	400	850	
			€	16.807,-	<sup>5)</sup>	<sup>5)</sup>	<sup>5)</sup>	
250	CE3F250AA	1000	kPa	220	440	220	400	
			€	25.030,-	<sup>5)</sup>	<sup>5)</sup>	<sup>5)</sup>	
250	CE3F250A	800	kPa	220	440	220	400	
			€	25.030,-	<sup>5)</sup>	<sup>5)</sup>	<sup>5)</sup>	
250	CE3F250B	630	kPa	220	440	220	400	
			€	25.030,-	<sup>5)</sup>	<sup>5)</sup>	<sup>5)</sup>	
250	CE3F250C	500	kPa	220	440	220	400	
			€	25.030,-	<sup>5)</sup>	<sup>5)</sup>	<sup>5)</sup>	
300	CE3F300AA	1600	kPa	-	300	150	300	
			€	-	<sup>5)</sup>	<sup>5)</sup>	<sup>5)</sup>	
300	CE3F300A	1250	kPa	150	300	150	300	
			€	31.497,-	<sup>5)</sup>	<sup>5)</sup>	<sup>5)</sup>	
300	CE3F300B	1000	kPa	150	300	150	300	
			€	31.497,-	<sup>5)</sup>	<sup>5)</sup>	<sup>5)</sup>	
300	CE3F300C	800	kPa	150	300	150	300	
			€	31.497,-	<sup>5)</sup>	<sup>5)</sup>	<sup>5)</sup>	
300	CE3F300D	630	kPa	150	300	150	300	
			€	31.497,-	<sup>5)</sup>	<sup>5)</sup>	<sup>5)</sup>	

- <sup>1)</sup> with stem heater for media temperatures down to -10°C (order separately)
- <sup>2)</sup> control valve also available with linear control characteristic: information on request
- <sup>3)</sup> flanged connection according PN40 as a standard: also available with PN16 or PN25 flanges (on request)
- <sup>4)</sup> Y: 4..20mA to be specified when ordering (no extra cost)
- <sup>5)</sup> price on request
- <sup>6)</sup> positioner on request
- <sup>7)</sup> 3-point, 4 wire connection
- ▲ standard

## Motorized 3-port stainless steel control valves PN40 • DN15..DN300

Ci3F..



- Valve body: stainless steel 1.4408
- Valve leakage  $\leq 0,01\%$  Kvs (EN1349, IV L1)
- Medium: water, condense or steam  $-30^{\circ}\text{C}..+400^{\circ}\text{C}$  <sup>1)</sup>
- Control signal Y: 3P, 0..10Vdc or 4..20mA
- A ▶ AB: equal percentage
- Flanged connection EN1092-2 type 21



TYPE	1503U42	325U22	PA-N1080	PA-N2160	U <sub>v</sub>	Y
	●				AC 24 Volt	
	●				AC 24 V	
	3)					
	4)					
	15kN	25kN				



DN	TYPE	Kvs	Price	
			Δp <sub>s</sub>	€
200	Ci3F200A	630	kPa	370
200	Ci3F200B	500	kPa	
200	Ci3F200C			

### Ci3F on request

Motorized 3-port stainless steel control valves PN40 can be delivered on request: DN15..DN300

## Accessories for control valves and electric actuators


TYPE	Description	Valve	Actuator	Price €/pc
T.HH.ZV12.xx	Stainless steel plug 1.4305	●		<sup>1)</sup>
T.HH.ZV69.xx	Epoxy resin varnish (corrosion prevention)	●		<sup>1)</sup>
T.HH.ZV16.xx	Technical silicon free version	●		<sup>1)</sup>
T.HH.ZV64.xx	Stem heater for control valves, C.. series (chapter 2)	●		<sup>1)</sup>
T.HH.ZA70.yy	Auxiliary position switch (2x, potential free)		●	<sup>1)</sup>
T.HH.ZA71.yy	Auxiliary position switch (2x, potential free, adjustable)		●	<sup>1)</sup>
T.HH.ZA72	IP65 protection		●	<sup>1)</sup>
T.HH.ZA75	Power supply AC 115 Volt		●	<sup>1)</sup>
T.HH.ZA76	Feedback signal X: 0 .. 20mA or 4 .. 20 mA		●	<sup>1)</sup>

<sup>1)</sup> on request    **xx:** refers to the size of the control valve (DN)    **yy:** refers to the type of actuator



## 2-port control valves series CT2D.. PN16 • DN15..DN50



- Valve body: bronze Rg-5 (CC491K)
- Medium: water 0°C..+90°C
- Drinking water (DVGW certification)
- Stem sealing: EPDM O-rings
- Threaded connection ISO 228-1, with coupling parts ISO 7-1 (Rp) <sup>1)</sup>
- Tight sealing EN1349, VI G1

Valve	TYPE	DN	Rp	Kvs [m³/h]	Stroke	PN	Price €/pc
	CT2D015A	15	1/2"	4	12mm	16bar	271,-
	CT2D015B	15	1/2"	2,5	12mm	16bar	271,-
	CT2D015C	15	1/2"	1,6	12mm	16bar	271,-
	CT2D015D	15	1/2"	1,25	12mm	16bar	271,-
	CT2D015E	15	1/2"	0,63	12mm	16bar	271,-
	CT2D020A	20	3/4"	6,3	12mm	16bar	289,-
	CT2D020B	20	3/4"	5	12mm	16bar	289,-
	CT2D025A	25	1"	10	14mm	16bar	335,-
	CT2D025B	25	1"	8	14mm	16bar	335,-
	CT2D032A	32	1 1/4"	16	14mm	16bar	377,-
	CT2D032B	32	1 1/4"	12,5	14mm	16bar	377,-
	CT2D040A	40	1 1/2"	25	14mm	16bar	466,-
	CT2D040B	40	1 1/2"	20	14mm	16bar	466,-
	CT2D050A	50	2"	40	14mm	16bar	621,-
	CT2D050B	50	2"	31,5	14mm	16bar	621,-

<sup>1)</sup>  each valve is delivered with connection parts ISO 7-1 included: 2 pieces of threaded connection parts and sealings

## Actuators for CT2D.. control valves

- Automatic self-calibration, overload protected
- Manual override with power supply interruption
- IP54
- U<sub>v</sub>: AC 24 Volt or AC 230 Volt
- Y: 3P, 0..10Vdc or 4..20mA
- Fast actuating time: 1,9..4s/mm

Actuator	TYPE	Max. stroke	Force	AC 24 Volt	AC 230 Volt	3P	3P (4 fils)	0..10Vdc	4..20mA	VA	Price €/pc
	100U22.20	20mm	1000N	-	●	-	<sup>2)</sup>	●	-	12	442,-
	100i22.20	20mm	1000N	-	●	-	<sup>2)</sup>	-	●	12	442,-
	100U42.20	20mm	1000N	●	-	-	<sup>2)</sup>	●	-	6	415,-
	100i42.20	20mm	1000N	●	-	-	<sup>2)</sup>	-	●	6	415,-
	160U24.14	14mm	1600N	-	●	-	<sup>2)</sup>	●	-	12	553,-
	160i24.14	14mm	1600N	-	●	-	<sup>2)</sup>	-	●	12	553,-
	160U44.14	14mm	1600N	●	-	-	<sup>2)</sup>	●	-	6	525,-
	160i44.14	14mm	1600N	●	-	-	<sup>2)</sup>	-	●	6	525,-

<sup>2)</sup> 3-point, 4 wire connection

▲ standard



## Motorized 2-port control valves PN16 • DN15..DN50

CT2D..



- Valve body: bronze Rg-5 (CC491K)
- Medium: water 0°C..+90°C
- Drinking water (DVGW certification)
- Electric actuator: 1000N..1600N
- Power supply  $U_v$ : AC 24 Volt or AC 230 Volt
- Control signal Y: 3P, 0..10Vdc or 4..20mA



TYPE	100U42	160U44	$U_v$	Y
	●	●	AC 24 Volt	3P <sup>2)</sup>
	●	●	AC 24 Volt	0..10Vdc
	<sup>1)</sup>	<sup>1)</sup>	AC 24 Volt	4..20mA
	<sup>3)</sup>	<sup>3)</sup>	AC 230 Volt	3P <sup>2)</sup>
	<sup>3)</sup>	<sup>3)</sup>	AC 230 Volt	0..10Vdc
	<sup>3)</sup>	<sup>3)</sup>	AC 230 Volt	4..20mA
	1000N	1600N		

DN	TYPE	Kvs	$\Delta p_s$	
			kPa	Price
15	CT2D015A	4	kPa	1600
			€	<b>686,-</b>
15	CT2D015B	2,5	kPa	1600
			€	<b>686,-</b>
15	CT2D015C	1,6	kPa	1600
			€	<b>686,-</b>
15	CT2D015D	1,25	kPa	1600
			€	<b>686,-</b>
15	CT2D015E	0,63	kPa	1600
			€	<b>686,-</b>
20	CT2D020A	6,3	kPa	1600
			€	<b>704,-</b>
20	CT2D020B	5	kPa	1600
			€	<b>704,-</b>
25	CT2D025A	10	kPa	1500
			€	<b>750,-</b>
25	CT2D025B	8	kPa	1500
			€	<b>750,-</b>
32	CT2D032A	16	kPa	900
			€	<b>792,-</b>
32	CT2D032B	12,5	kPa	900
			€	<b>792,-</b>
40	CT2D040A	25	kPa	550
			€	<b>881,-</b>
40	CT2D040B	20	kPa	550
			€	<b>881,-</b>
50	CT2D050A	40	kPa	350
			€	<b>1.036,-</b>
50	CT2D050B	31,5	kPa	350
			€	<b>1.036,-</b>

- <sup>1)</sup> Y: 4..20mA to be specified when ordering  
<sup>2)</sup> 3-point, 4 wire connection  
<sup>3)</sup> no extra cost: to be defined using data on the previous page  
▲ standard

## Motorized 2-port control valves PN25 • DN15 <sup>5)</sup> ..DN32

CX2F..

- Valve body: cast iron GGG-40.3 (EN-JS1024)
- Valve leakage ≤0,01% Kvs (EN1349, IV L1)
- Medium: water, condense or steam 0°C..+180°C <sup>1)</sup>
- Control signal Y: 3P, 0..10Vdc or 4..20mA
- A ▶ AB: equal percentage
- Flanged connection EN1092-2 type 21 <sup>2)</sup>



TYPE	103U44 <sup>8)</sup>	163U44	253U42	503U42	NC..	PA-N160	U <sub>v</sub>	Y
	●	●	●	●	●		AC 24 Volt	3P <sup>7)</sup>
	●	●	●	●	●		AC 24 Volt	0..10Vdc
	<sup>3)</sup>	<sup>3)</sup>	<sup>3)</sup>	<sup>3)</sup>	<sup>3)</sup>		AC 24 Volt	4..20mA
	<sup>4)</sup>	<sup>4)</sup>	<sup>4)</sup>	<sup>4)</sup>	<sup>4)</sup>		AC 230 Volt	
	1kN	1,6kN	2,5kN	5kN	1kN		electric	
						2,8kN	pneumatic <sup>6)</sup>	
					●	●	with failsafe function	

DN	TYPE	Kvs	ΔP <sub>s</sub>							
				Price						
15	CX2F015A	4	kPa	1250	2400	2500	2500	1250	2500	
			€	1.349,-	1.516,-	2.035,-	2.082,-	2.015,-	<sup>4)</sup>	
15	CX2F015B	2,5	kPa	2500	2500	2500	2500	2500	2500	
			€	1.446,-	1.613,-	2.132,-	2.179,-	2.112,-	<sup>4)</sup>	
20	CX2F020A	6,3	kPa	1250	2400	2500	2500	1250	2500	
			€	1.416,-	1.582,-	2.102,-	2.148,-	2.082,-	<sup>4)</sup>	
20	CX2F020B	5	kPa	1250	2400	2500	2500	1250	2500	
			€	1.533,-	1.700,-	2.219,-	2.266,-	2.200,-	<sup>4)</sup>	
20	CX2F020C	4	kPa	1250	2400	2500	2500	1250	2500	
			€	1.416,-	1.582,-	2.102,-	2.148,-	2.082,-	<sup>4)</sup>	
20	CX2F020D	2,5	kPa	1250	2400	2500	2500	1250	2500	
			€	1.533,-	1.700,-	2.219,-	2.266,-	2.200,-	<sup>4)</sup>	
25	CX2F025A	10	kPa	1050	2050	2500	2500	1050	2500	
			€	1.461,-	1.628,-	2.147,-	2.194,-	2.127,-	<sup>4)</sup>	
25	CX2F025B	8	kPa	1050	2050	2500	2500	1050	2500	
			€	1.579,-	1.746,-	2.265,-	2.312,-	2.245,-	<sup>4)</sup>	
25	CX2F025C	6,3	kPa	1050	2050	2500	2500	1050	2500	
			€	1.461,-	1.628,-	2.147,-	2.194,-	2.127,-	<sup>4)</sup>	
25	CX2F025D	5	kPa	1050	2050	2500	2500	1050	2500	
			€	1.579,-	1.746,-	2.265,-	2.312,-	2.245,-	<sup>4)</sup>	
32	CX2F032A	16	kPa	600	1250	2200	2500	600	2200	
			€	1.496,-	1.663,-	2.182,-	2.229,-	2.162,-	<sup>4)</sup>	
32	CX2F032B	12,5	kPa	600	1250	2200	2500	600	2200	
			€	1.622,-	1.789,-	2.308,-	2.355,-	2.288,-	<sup>4)</sup>	
32	CX2F032C	10	kPa	600	1250	2200	2500	600	2200	
			€	1.496,-	1.663,-	2.182,-	2.229,-	2.162,-	<sup>4)</sup>	
32	CX2F032D	8	kPa	600	1250	2200	2500	600	2200	
			€	1.622,-	1.789,-	2.308,-	2.355,-	2.288,-	<sup>4)</sup>	

<sup>1)</sup> with stem heater for media temperatures down to -10°C (order separately)

<sup>2)</sup> flanged connection according PN25 as a standard: also available with PN16 or PN40 flanges (on request)

<sup>3)</sup> Y: 4..20mA to be specified when ordering (no extra cost)

<sup>4)</sup> price on request

<sup>5)</sup> DN15 also available with Kvs values: 1.6, 1.25, 1.0, 0.63, 0.4, 0.25 or 0.16

<sup>6)</sup> positioner on request

<sup>7)</sup> 3-point, 4 wire connection

## Motorized 2-port control valves PN25 • DN40..DN80

CX2F..



- Valve body: cast iron GGG-40.3 (EN-JS1024)
- Valve leakage  $\leq 0,01\%$  Kvs (EN1349, IV L1)
- Medium: water, condense or steam  $0^{\circ}\text{C}..+180^{\circ}\text{C}$  <sup>1)</sup>
- Control signal Y: 3P, 0..10Vdc or 4..20mA
- A ► AB: equal percentage
- Flanged connection EN1092-2 type 21 <sup>2)</sup>



TYPE	103U44 <sup>8)</sup>	163U44	253U42	503U42	1003U41	NC..	PA-N280	PA-N540	U <sub>v</sub>	Y
	●	●	●	●	●	●			AC 24 Volt	3P <sup>7)</sup>
	●	●	●	●	●	●			AC 24 Volt	0..10Vdc
	3)	3)	3)	3)	3)	3)			AC 24 Volt	4..20mA
	4)	4)	4)	4)	4)	4)			AC 230 Volt	
	1kN	1,6kN	2,5kN	5kN	10kN	2,5kN			electric	
							5kN	9kN	pneumatic <sup>6)</sup>	
						●	●	●	with failsafe function	

DN	TYPE	Kvs	Ap <sub>s</sub>		Price							
			kPa	Price	350	750	1400	2500	-	350	2500	
40	CX2F040A	25	kPa	€	1.528,-	1.694,-	2.214,-	2.260,-	-	3.152,-	4)	
			kPa	€	1.662,-	1.829,-	2.348,-	2.394,-	-	3.286,-	4)	
40	CX2F040B	20	kPa	€	1.528,-	1.694,-	2.214,-	2.260,-	-	3.152,-	4)	
			kPa	€	1.662,-	1.829,-	2.348,-	2.394,-	-	3.286,-	4)	
40	CX2F040C	16	kPa	€	1.528,-	1.694,-	2.214,-	2.260,-	-	3.152,-	4)	
			kPa	€	1.662,-	1.829,-	2.348,-	2.394,-	-	3.286,-	4)	
40	CX2F040D	12,5	kPa	€	1.662,-	1.829,-	2.348,-	2.394,-	-	3.286,-	4)	
			kPa	€	1.662,-	1.829,-	2.348,-	2.394,-	-	3.286,-	4)	
50	CX2F050A	40	kPa	€	-	1.722,-	2.240,-	2.288,-	-	3.181,-	4)	
			kPa	€	-	1.722,-	2.240,-	2.288,-	-	3.181,-	4)	
50	CX2F050B	31,5	kPa	€	-	1.866,-	2.384,-	2.432,-	-	3.324,-	4)	
			kPa	€	-	1.866,-	2.384,-	2.432,-	-	3.324,-	4)	
50	CX2F050C	25	kPa	€	-	1.722,-	2.240,-	2.288,-	-	3.181,-	4)	
			kPa	€	-	1.722,-	2.240,-	2.288,-	-	3.181,-	4)	
50	CX2F050D	20	kPa	€	-	1.866,-	2.384,-	2.432,-	-	3.324,-	4)	
			kPa	€	-	1.866,-	2.384,-	2.432,-	-	3.324,-	4)	
65	CX2F065A	63	kPa	€	-	2.306,-	2.825,-	2.872,-	3.792,-	3.763,-	4)	
			kPa	€	-	2.306,-	2.825,-	2.872,-	3.792,-	3.763,-	4)	
65	CX2F065B	50	kPa	€	-	2.469,-	2.988,-	3.035,-	3.955,-	3.926,-	4)	
			kPa	€	-	2.469,-	2.988,-	3.035,-	3.955,-	3.926,-	4)	
65	CX2F065C	40	kPa	€	-	2.306,-	2.825,-	2.872,-	3.792,-	3.763,-	4)	
			kPa	€	-	2.306,-	2.825,-	2.872,-	3.792,-	3.763,-	4)	
65	CX2F065D	31,5	kPa	€	-	2.469,-	2.988,-	3.035,-	3.955,-	3.926,-	4)	
			kPa	€	-	2.469,-	2.988,-	3.035,-	3.955,-	3.926,-	4)	
80	CX2F080A	100	kPa	€	-	-	3.189,-	3.236,-	4.156,-	4.128,-	4)	
			kPa	€	-	-	3.189,-	3.236,-	4.156,-	4.128,-	4)	
80	CX2F080B	80	kPa	€	-	-	3.367,-	3.414,-	4.335,-	4.307,-	4)	
			kPa	€	-	-	3.367,-	3.414,-	4.335,-	4.307,-	4)	
80	CX2F080C	63	kPa	€	-	-	3.189,-	3.236,-	4.156,-	4.128,-	4)	
			kPa	€	-	-	3.189,-	3.236,-	4.156,-	4.128,-	4)	
80	CX2F080D	50	kPa	€	-	-	3.367,-	3.414,-	4.335,-	4.307,-	4)	
			kPa	€	-	-	3.367,-	3.414,-	4.335,-	4.307,-	4)	

<sup>8)</sup> medium temperature maximum: +150°C

▲ standard

## Motorized 2-port control valves PN25 • DN100..DN150

**CX2F..**

- Valve body: cast iron GGG-40.3 (EN-JS1024) <sup>1)</sup>
- Valve leakage ≤0,01% Kvs (EN1349, IV L1)
- Medium: water, condense or steam 0°C..+180°C <sup>2)</sup>
- Control signal Y: 3P, 0..10Vdc or 4..20mA
- A ▶ AB: equal percentage
- Flanged connection EN1092-2 type 21 <sup>3)</sup>



TYPE							U <sub>v</sub>	Y
	●	●	●	●			AC 24 Volt	3P <sup>7)</sup>
	●	●	●	●			AC 24 Volt	0..10Vdc
	4)	4)	4)	4)			AC 24 Volt	4..20mA
	5)	5)	5)	5)			AC 230 Volt	
	2,5kN	5kN	15kN	2,5kN			electric	
					9kN	16kN	pneumatic <sup>6)</sup>	
				●	●	●	with failsafe function	



DN	TYPE	Kvs	Δp <sub>s</sub>						
			Price						
100	CX2F100A	160	kPa	200	500	-	200	900	
			€	3.734,-	3.780,-	-	4.673,-	<sup>5)</sup>	
100	CX2F100B	125	kPa	200	500	-	200	900	
			€	3.912,-	3.959,-	-	4.851,-	<sup>5)</sup>	
100	CX2F100C	100	kPa	200	500	-	200	900	
			€	3.734,-	3.780,-	-	4.673,-	<sup>5)</sup>	
100	CX2F100D	80	kPa	200	500	-	200	900	
			€	3.912,-	3.959,-	-	4.851,-	<sup>5)</sup>	
125	CX2F125A	250	kPa	-	290	950	-	-	1000
			€	-	4.668,-	5.637,-	-	-	<sup>5)</sup>
125	CX2F125B	200	kPa	-	290	950	-	-	1000
			€	-	4.867,-	5.835,-	-	-	<sup>5)</sup>
125	CX2F125C	160	kPa	-	290	950	-	-	1000
			€	-	4.668,-	5.637,-	-	-	<sup>5)</sup>
125	CX2F125D	125	kPa	-	290	950	-	-	1000
			€	-	4.867,-	5.835,-	-	-	<sup>5)</sup>
150	CX2F150A	400	kPa	-	190	700	-	-	700
			€	-	5.809,-	6.778,-	-	-	<sup>5)</sup>
150	CX2F150B	315	kPa	-	190	700	-	-	700
			€	-	6.008,-	6.976,-	-	-	<sup>5)</sup>
150	CX2F150C	250	kPa	-	190	700	-	-	700
			€	-	5.809,-	6.778,-	-	-	<sup>5)</sup>
150	CX2F150D	200	kPa	-	190	700	-	-	700
			€	-	6.008,-	6.976,-	-	-	<sup>5)</sup>

- <sup>1)</sup> control valves GGG-40.3 also available in sizes DN200 or DN250 (PN16)
- <sup>2)</sup> with stem heater for media temperatures down to -10°C (order separately)
- <sup>3)</sup> flanged connection according PN25 as a standard: also available with PN16 or PN40 flanges (on request)
- <sup>4)</sup> Y: 4..20mA to be specified when ordering (no extra cost)
- <sup>5)</sup> price on request
- <sup>6)</sup> positioner on request
- <sup>7)</sup> 3-point, 4 wire connection
- ▲ standard

## Motorized 2-port control valves PN40 • DN15..DN32

CE2F..

- Valve body: cast steel GS-C25N (1.0619+N)
- Valve leakage  $\leq 0,01\%$  Kvs (EN1349, IV L1)
- Medium: water, condense or steam 0°C..+180°C <sup>2)</sup>
- Control signal Y: 3P, 0..10Vdc or 4..20mA
- A ▶ AB: equal percentage <sup>3)</sup>
- Flanged connection EN1092-2 type 21 <sup>4)</sup>



TYPE	103U44 <sup>9)</sup>	163U44	253U42	503U42	NC..	PA-N160	U <sub>v</sub>	Y
	●	●	●	●	●		AC 24 Volt	3P <sup>8)</sup>
	●	●	●	●	●		AC 24 Volt	0..10Vdc
	<sup>5)</sup>	<sup>5)</sup>	<sup>5)</sup>	<sup>5)</sup>	<sup>5)</sup>		AC 24 Volt	4..20mA
	<sup>6)</sup>	<sup>6)</sup>	<sup>6)</sup>	<sup>6)</sup>	<sup>6)</sup>		AC 230 Volt	
	1kN	1,6kN	2,5kN	5kN	1kN		electric	
						2,8kN	pneumatic <sup>7)</sup>	
					●	●	with failsafe function	

DN	TYPE	Kvs	Ap <sub>s</sub>		Price					
			kPa	Price	1250	2400	4000	4000	1250	4000
15	CE2F015A <sup>1)</sup>	4	kPa	€	1.398,-	1.565,-	2.084,-	2.131,-	2.063,-	<sup>6)</sup>
			kPa	€	1.493,-	1.659,-	2.189,-	2.225,-	2.159,-	<sup>6)</sup>
15	CE2F015B	2,5	kPa	€	1.476,-	1.643,-	2.162,-	2.209,-	2.142,-	<sup>6)</sup>
			kPa	€	1.594,-	1.761,-	2.280,-	2.327,-	2.260,-	<sup>6)</sup>
20	CE2F020A	6,3	kPa	€	1.476,-	1.643,-	2.162,-	2.209,-	2.142,-	<sup>6)</sup>
			kPa	€	1.594,-	1.761,-	2.280,-	2.327,-	2.260,-	<sup>6)</sup>
20	CE2F020B	5	kPa	€	1.476,-	1.643,-	2.162,-	2.209,-	2.142,-	<sup>6)</sup>
			kPa	€	1.594,-	1.761,-	2.280,-	2.327,-	2.260,-	<sup>6)</sup>
20	CE2F020C	4	kPa	€	1.476,-	1.643,-	2.162,-	2.209,-	2.142,-	<sup>6)</sup>
			kPa	€	1.594,-	1.761,-	2.280,-	2.327,-	2.260,-	<sup>6)</sup>
20	CE2F020D	2,5	kPa	€	1.594,-	1.761,-	2.280,-	2.327,-	2.260,-	<sup>6)</sup>
			kPa	€	1.547,-	1.714,-	2.233,-	2.280,-	2.214,-	<sup>6)</sup>
25	CE2F025A	10	kPa	€	1.665,-	1.832,-	2.351,-	2.398,-	2.331,-	<sup>6)</sup>
			kPa	€	1.547,-	1.714,-	2.233,-	2.280,-	2.214,-	<sup>6)</sup>
25	CE2F025B	8	kPa	€	1.665,-	1.832,-	2.351,-	2.398,-	2.331,-	<sup>6)</sup>
			kPa	€	1.547,-	1.714,-	2.233,-	2.280,-	2.214,-	<sup>6)</sup>
25	CE2F025C	6,3	kPa	€	1.547,-	1.714,-	2.233,-	2.280,-	2.214,-	<sup>6)</sup>
			kPa	€	1.665,-	1.832,-	2.351,-	2.398,-	2.331,-	<sup>6)</sup>
25	CE2F025D	5	kPa	€	1.665,-	1.832,-	2.351,-	2.398,-	2.331,-	<sup>6)</sup>
			kPa	€	1.759,-	1.925,-	2.445,-	2.491,-	2.425,-	<sup>6)</sup>
32	CE2F032A	16	kPa	€	1.759,-	1.925,-	2.445,-	2.491,-	2.425,-	<sup>6)</sup>
			kPa	€	1.885,-	2.051,-	2.571,-	2.617,-	2.551,-	<sup>6)</sup>
32	CE2F032B	12,5	kPa	€	1.885,-	2.051,-	2.571,-	2.617,-	2.551,-	<sup>6)</sup>
			kPa	€	1.759,-	1.925,-	2.445,-	2.491,-	2.425,-	<sup>6)</sup>
32	CE2F032C	10	kPa	€	1.759,-	1.925,-	2.445,-	2.491,-	2.425,-	<sup>6)</sup>
			kPa	€	1.885,-	2.051,-	2.571,-	2.617,-	2.551,-	<sup>6)</sup>
32	CE2F032D	8	kPa	€	1.885,-	2.051,-	2.571,-	2.617,-	2.551,-	<sup>6)</sup>

<sup>1)</sup> DN15 also available with Kvs values: 1.6, 1.25, 1.0, 0.63, 0.4, 0.25 or 0.16  
<sup>2)</sup> with stem heater for media temperatures down to -10°C (order separately)  
<sup>3)</sup> control valve also available with linear control characteristic: information on request  
<sup>4)</sup> flanged connection according PN40 as a standard: also available with PN16 or PN25 flanges (on request)  
<sup>5)</sup> Y: 4..20mA to be specified when ordering (no extra cost)  
<sup>6)</sup> price on request  
<sup>7)</sup> positioner on request  
<sup>8)</sup> 3-point, 4 wire connection  
<sup>9)</sup> medium temperature maximum: +150°C

## Motorized 2-port control valves PN40 • DN40..DN80

CE2F..

- Valve body: cast steel GS-C25N (1.0619+N)
- Valve leakage  $\leq 0,01\%$  Kvs (EN1349, IV L1)
- Medium: water, condense or steam 0°C..+180°C <sup>1)</sup>
- Control signal Y: 3P, 0..10Vdc or 4..20mA
- A ▶ AB: equal percentage <sup>2)</sup>
- Flanged connection EN1092-2 type 21 <sup>3)</sup>



TYPE	103U44 <sup>4)</sup>	163U44	253U42	503U42	1003U41	NC..	PA-N280	PA-N540	U <sub>v</sub>	Y
	●	●	●	●	●	●			AC 24 Volt	3P <sup>7)</sup>
	●	●	●	●	●	●			AC 24 Volt	0..10Vdc
	4)	4)	4)	4)	4)	4)			AC 24 Volt	4..20mA
	5)	5)	5)	5)	5)	5)			AC 230 Volt	
	1kN	1,6kN	2,5kN	5kN	10kN	2,5kN			electric	
							5kN	9kN	pneumatic <sup>6)</sup>	
						●	●	●	with failsafe function	

DN	TYPE	Kvs	$\Delta p_s$		Price										
			kPa	Price	350	750	1400	3150	-	350	4000				
40	CE2F040A	25	kPa	350	750	1400	3150	-	350	4000					
			€	1.851,-	2.018,-	2.537,-	2.583,-	-	3.476,-	<sup>5)</sup>					
40	CE2F040B	20	kPa	350	750	1400	3150	-	350	4000					
			€	1.985,-	2.152,-	2.671,-	2.718,-	-	3.610,-	<sup>5)</sup>					
40	CE2F040C	16	kPa	350	750	1400	3150	-	350	4000					
			€	1.851,-	2.018,-	2.537,-	2.583,-	-	3.476,-	<sup>5)</sup>					
40	CE2F040D	12,5	kPa	350	750	1400	3150	-	350	4000					
			€	1.985,-	2.152,-	2.671,-	2.718,-	-	3.610,-	<sup>5)</sup>					
50	CE2F050A	40	kPa	-	450	850	1950	-	850	1700					
			€	-	2.110,-	2.629,-	2.676,-	-	3.568,-	<sup>5)</sup>					
50	CE2F050B	31,5	kPa	-	450	850	1950	-	850	1700					
			€	-	2.253,-	2.772,-	2.819,-	-	3.712,-	<sup>5)</sup>					
50	CE2F050C	25	kPa	-	450	850	1950	-	850	1700					
			€	-	2.110,-	2.629,-	2.676,-	-	3.568,-	<sup>5)</sup>					
50	CE2F050D	20	kPa	-	450	850	1950	-	850	1700					
			€	-	2.253,-	2.772,-	2.819,-	-	3.712,-	<sup>5)</sup>					
65	CE2F065A	63	kPa	-	300	540	1250	2150	540	1100	2750				
			€	-	2.701,-	3.220,-	3.267,-	4.188,-	4.160,-	<sup>5)</sup>	<sup>5)</sup>				
65	CE2F065B	50	kPa	-	300	540	1250	2150	540	1100	2750				
			€	-	2.865,-	3.384,-	3.430,-	4.351,-	4.323,-	<sup>5)</sup>	<sup>5)</sup>				
65	CE2F065C	40	kPa	-	300	540	1250	2150	540	1100	2750				
			€	-	2.701,-	3.220,-	3.267,-	4.188,-	4.160,-	<sup>5)</sup>	<sup>5)</sup>				
65	CE2F065D	31,5	kPa	-	300	540	1250	2150	540	1100	2750				
			€	-	2.865,-	3.384,-	3.430,-	4.351,-	4.323,-	<sup>5)</sup>	<sup>5)</sup>				
80	CE2F080A	100	kPa	-	-	350	850	1500	350	-	1500				
			€	-	-	3.820,-	3.867,-	4.787,-	4.759,-	-	<sup>5)</sup>				
80	CE2F080B	80	kPa	-	-	350	850	1500	350	-	1500				
			€	-	-	3.999,-	4.045,-	4.966,-	4.938,-	-	<sup>5)</sup>				
80	CE2F080C	63	kPa	-	-	350	850	1500	350	-	1500				
			€	-	-	3.820,-	3.867,-	4.787,-	4.759,-	-	<sup>5)</sup>				
80	CE2F080D	50	kPa	-	-	350	850	1500	350	-	1500				
			€	-	-	3.999,-	4.045,-	4.966,-	4.938,-	-	<sup>5)</sup>				

▲ standard

## Motorized 2-port control valves PN40 • DN100..DN150

CE2F..

- Valve body: cast steel GS-C25N (1.0619+N)
- Valve leakage  $\leq 0,01\%$  Kvs (EN1349, IV L1)
- Medium: water, condense or steam 0°C..+180°C <sup>1)</sup>
- Control signal Y: 3P, 0..10Vdc or 4..20mA
- A ▶ AB: equal percentage <sup>2)</sup>
- Flanged connection EN1092-2 type 21 <sup>3)</sup>



TYPE	253U42	503U42	1503U42	NC..	PA-N540	PA-N1080	U <sub>v</sub>	Y
	●	●	●	●			AC 24 Volt	3P <sup>7)</sup>
	●	●	●	●			AC 24 Volt	0..10Vdc
	4)	4)	4)	4)			AC 24 Volt	4..20mA
	5)	5)	5)	5)			AC 230 Volt	
	2,5kN	5kN	15kN	2,5kN			electric	
					9kN	16kN	pneumatic <sup>8)</sup>	
				●	●	●	with failsafe function	

DN	TYPE	Kvs	Δp <sub>s</sub>		Price						
			kPa	Price	200	500	-	200	900	1000	
100	CE2F100A	160	kPa	200	500	-	200	900			
			€	4.689,-	4.736,-	-	5.628,-	5)			
100	CE2F100B	125	kPa	200	500	-	200	900			
			€	4.868,-	4.914,-	-	5.807,-	5)			
100	CE2F100C	100	kPa	200	500	-	200	900			
			€	4.689,-	4.736,-	-	5.628,-	5)			
100	CE2F100D	80	kPa	200	500	-	200	900			
			€	4.868,-	4.914,-	-	5.807,-	5)			
125	CE2F125A	250	kPa	-	290	950	-	-	1000		
			€	-	6.003,-	6.971,-	-	-	5)		
125	CE2F125B	200	kPa	-	290	950	-	-	1000		
			€	-	6.201,-	7.170,-	-	-	5)		
125	CE2F125C	160	kPa	-	290	950	-	-	1000		
			€	-	6.003,-	6.971,-	-	-	5)		
125	CE2F125D	125	kPa	-	290	950	-	-	1000		
			€	-	6.201,-	7.170,-	-	-	5)		
150	CE2F150A	400	kPa	-	190	700	-	-	700		
			€	-	7.788,-	8.756,-	-	-	5)		
150	CE2F150B	315	kPa	-	190	700	-	-	700		
			€	-	7.986,-	8.955,-	-	-	5)		
150	CE2F150C	250	kPa	-	190	700	-	-	700		
			€	-	7.788,-	8.756,-	-	-	5)		
150	CE2F150D	200	kPa	-	190	700	-	-	700		
			€	-	7.986,-	8.955,-	-	-	5)		

- <sup>1)</sup> with stem heater for media temperatures down to -10°C (order separately)
- <sup>2)</sup> control valve also available with linear control characteristic: information on request
- <sup>3)</sup> flanged connection according PN40 as a standard: also available with PN16 or PN25 flanges (on request)
- <sup>4)</sup> Y: 4..20mA to be specified when ordering (no extra cost)
- <sup>5)</sup> price on request
- <sup>6)</sup> positioner on request
- <sup>7)</sup> 3-point, 4 wire connection
- <sup>8)</sup> medium temperature maximum: +150°C
- ▲ standard



## Motorized 2-port control valves PN40 • DN200..DN300

CE2F..

- Valve body: cast steel GS-C25N (1.0619+N)
- Valve leakage  $\leq 0,01\%$  Kvs (EN1349, IV L1)
- Medium: water, condense or steam 0°C..+180°C <sup>1)</sup>
- Control signal Y: 3P, 0..10Vdc or 4..20mA
- A ► AB: equal percentage <sup>2)</sup>
- Flanged connection EN1092-2 type 21 <sup>3)</sup>



TYPE	1503U42	325U22	PA-N1080	PA-N2160	U <sub>v</sub>	Y
	●				AC 24 Volt	3P <sup>6)</sup>
	●				AC 24 Volt	0..10Vdc
	<sup>4)</sup>				AC 24 Volt	4..20mA
	<sup>5)</sup>	●			AC 230 Volt	
	15kN	25kN			electric	
			16kN	32kN	pneumatic	
			●	●	with failsafe function	

DN	TYPE	Kvs	ΔP <sub>s</sub>		Price			
			kPa	Price				
200	CE2F200A	630	kPa	370	690	400	850	
			€	13.314,-	<sup>5)</sup>	<sup>5)</sup>	<sup>5)</sup>	
200	CE2F200B	500	kPa	370	690	400	850	
			€	13.533,-	<sup>5)</sup>	<sup>5)</sup>	<sup>5)</sup>	
200	CE2F200C	400	kPa	370	690	400	850	
			€	13.314,-	<sup>5)</sup>	<sup>5)</sup>	<sup>5)</sup>	
200	CE2F200D	315	kPa	370	690	400	850	
			€	13.533,-	<sup>5)</sup>	<sup>5)</sup>	<sup>5)</sup>	
250	CE2F250AA	1000	kPa	220	440	220	400	
			€	19.807,-	<sup>5)</sup>	<sup>5)</sup>	<sup>5)</sup>	
250	CE2F250A	800	kPa	220	440	220	400	
			€	19.807,-	<sup>5)</sup>	<sup>5)</sup>	<sup>5)</sup>	
250	CE2F250B	630	kPa	220	440	220	400	
			€	19.807,-	<sup>5)</sup>	<sup>5)</sup>	<sup>5)</sup>	
250	CE2F250C	500	kPa	220	440	220	400	
			€	19.807,-	<sup>5)</sup>	<sup>5)</sup>	<sup>5)</sup>	
300	CE2F300AA	1600	kPa	-	300	150	300	
			€	-	<sup>5)</sup>	<sup>5)</sup>	<sup>5)</sup>	
300	CE2F300A	1250	kPa	150	300	150	300	
			€	24.779,-	<sup>5)</sup>	<sup>5)</sup>	<sup>5)</sup>	
300	CE2F300B	1000	kPa	150	300	150	300	
			€	24.779,-	<sup>5)</sup>	<sup>5)</sup>	<sup>5)</sup>	
300	CE2F300C	800	kPa	150	300	150	300	
			€	24.779,-	<sup>5)</sup>	<sup>5)</sup>	<sup>5)</sup>	
300	CE2F300D	630	kPa	150	300	150	300	
			€	24.779,-	<sup>5)</sup>	<sup>5)</sup>	<sup>5)</sup>	

- <sup>1)</sup> with stem heater for media temperatures down to -10°C (order separately)
- <sup>2)</sup> control valve also available with linear control characteristic: information on request
- <sup>3)</sup> flanged connection according PN40 as a standard: also available with PN16 or PN25 flanges (on request)
- <sup>4)</sup> Y: 4..20mA to be specified when ordering (no extra cost)
- <sup>5)</sup> price on request
- <sup>6)</sup> 3-point, 4 wire connection
- ▲ standard



## Motorized 2-port stainless steel control valves PN40 • DN15..DN300

Ci2F..

- Valve body: stainless steel 1.4408
- Valve leakage  $\leq 0,01\%$  Kvs (EN1349, IV L1)
- Medium: water, condense or steam  $-30^{\circ}\text{C}..+400^{\circ}\text{C}$  <sup>1)</sup>
- Control signal Y: 3P, 0..10Vdc or 4..20mA
- A ► AB: equal percentage
- Flanged connection EN1092-2 type 21



TYPE	1503U42	325U22	PA-N1080	PA-N2160	U <sub>v</sub>	Y
	●				AC 24 Volt	
	●				AC 24 V	
	3)					
	4)	●				
	15kN	25kN				



DN	TYPE	Kvs	Price	
			Δp <sub>s</sub>	€
200	Ci2F200A	630	kPa	370
200	Ci2F200B	500	kPa	
200	Ci2F200C			

### Ci2F on request

Motorized 2-port stainless steel control valves PN40 can be delivered on request: DN15..DN300

Accessories on page 61



### HyPro software

HyPro offers optimal design of hydronic systems in extremely short times. The integrated simulation module allows mapping of the energy consumption.