HYDAC PRODUCTNEWS
HYDRAULIC ACCESSORIES

The Newest Addition to HYDAC's CX Valve Family!

2/2 WAY COAXIAL VALVE PLUG-IN

NEW ADDITION

The all new CX plug-in, allows you to remove and replace the valve from the modular block without disassembling the entire manifold. This is accomplished because the valve is now fully contained in the body as opposed to within the block itself. It also allows the removal and replacement of the valve without the risk of damage to the seals. This will greatly reduce downtime due to service or replacement of the valve.



Key Features:

- Reduced downtime when replacing or servicing the valve.
- The CX plug-in can fit into existing CX modular valve nests.
- Minimizes the risk of seal damage during reassembly.

P/N	Model Code
4510103	CX02PM-2/2-D/C-2/10/020/012/24V-1X
4484728	CX02PM-2/2-D/C-2/10/040/012/24V-1X
4484730	CX02PM-2/2-D/C-2/10/064/012/24V-1X
4484733	CX02PM-2/2-F/C-2/10/064/012-1X
4484734	CX02PM-2/2-D/C-2/10/120/014-1X

For Mobile and Industrial applications!

CONTACT OUR EXPERTS TODAY!

Find the coaxial valve(s) or modular solution that is right for your application!

HYDAC ACCESSORIES

484-240-2871

Accessories.ATS@hydacusa.com

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2/2-Way Coaxial Valve Plug-In

CX02P to CX05P Direct Acting Valve



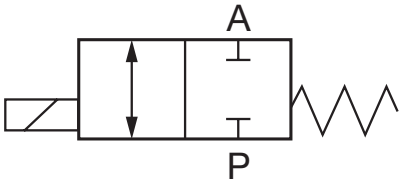
Description

The CX plug-in, allows you to remove and replace the valve from the modular block without disassembling the entire manifold. This is accomplished because the valve is now fully contained in the body as opposed to within the block itself.

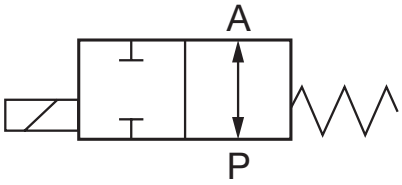
Features

- Reduced down time
- Minimizes risk of seal damage during reassembly

Switching Functions



NC (closed when denergized)



NO (open when denergized)

Technical Specifications

Control	2/2-way valve, direct acting	
Nominal size	DN 10	
Pressure range *see table)*	CX02P CX03P CX04P CX05P	PN 0 to PN 20 PN 0 to PN 40 PN 0 to PN 64 PN 0 to PN 100
Connections	Female threaded connection *(see table below)*	
Body material	Brass *(stainless steel on request)*	
Valve seat *(plastic on metal)*	FKM PTFE	CX02P / CX03P / CX04P CX05P
Seal material	Static: Dynamic:	FKM PTFE
Back-pressure resistant	Up to 16 bar	
Vacuum	Leakage rate $<10^{-6}$ mbar • l/s	
Media	Gaseous, liquid, contaminated	
Abrasive operating fluids	On request	
Flow direction	P → A A → P	As marked max. 16 bar
Temp. of fluid	-10 °C to +100 °C	
Ambient temperature	-10 °C to +50 °C	
Mounting position	No orientation restrictions	
Limit switch	Inductive*	

Electrical Part

Supply voltage	DC: 24 V AC: 230 V 40–60 Hz
Electrical part	DC: DC solenoid AC: DC solenoid with integrated rectifier
Connection	Female connector to DIN EN 175301-803 Form A Female connector with varistor and LED* Female connector with M12x1 and LED* Female connector to DESINA M12x1 and LED*
Voltage tolerance	±10% to VDE 0580
Duty cycle	100% duty cycle
Protection class	IP 65 when female connector is fitted

*optional

Series	DN [mm]	Pressure [bar]	Connection	Kv value [m3/h]	Power consumption [W] 24V DC	Power consumption 230 V 50 Hz	Weight [kg]
CX02P	10	0 – 20	G¼, G⅜, G½, G¾**	2.5	25	29	1.7
CX03P	10	0 – 40	G¼, G⅜, G½, G¾**	2.5	35	41	1.7
CX04P	10	0 – 64	G¼, G⅜, G½, G¾**	2.5	44	53	1.7
CX05P	10	0 – 100	G¼, G⅜, G½, G¾**	2.5	44	53	1.7

**Notes: Non-standard items

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Model Code

CX03P 2/2 D C 2 10 040 012 24V

Series Type
- CX02P = CX02 Plug-in
- CX03P = CX03 Plug-in
- CX04P = CX04 Plug-in
- CX05P = CX05 Plug-in

Ways
- 2/2 = Number of ways

Control
- D = Direct

Switching Function
- C = NC - Closed when De-energized
- O = NO - Open when De-energized

Body Material
- 2 = Brass

Nominal size
- 10 = DN 10

Pressure Range
- 020 = CX02P >0 - 20 bar
- 040 = CX03P >0 - 40 bar
- 064 = CX04P >0 - 64 bar
- 100 = CX05P >0 - 100 bar

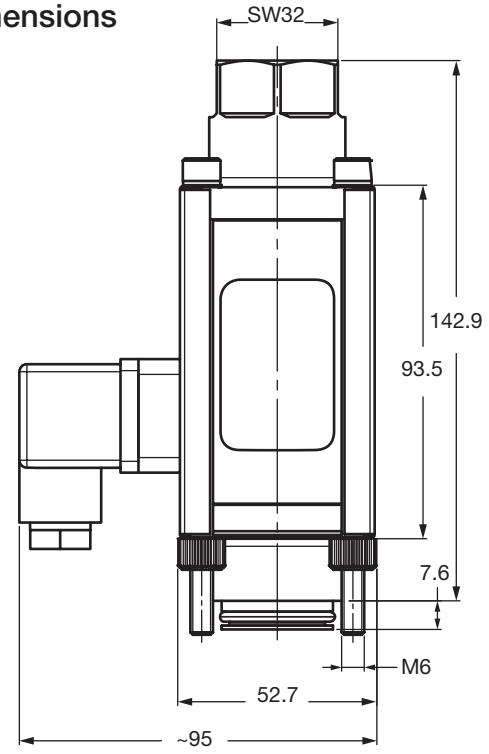
Connection
- 014 = G¼ - DN 10
- 038 = G⅜ - DN 10
- 012 = G½ - DN 10
- 034 = G¾ - DN 10*

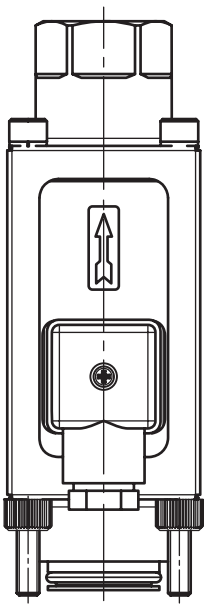
Supply voltage
- 24V = 24 V DC
- 230V = 230 V AC 40 - 60 Hz

Special voltages on request

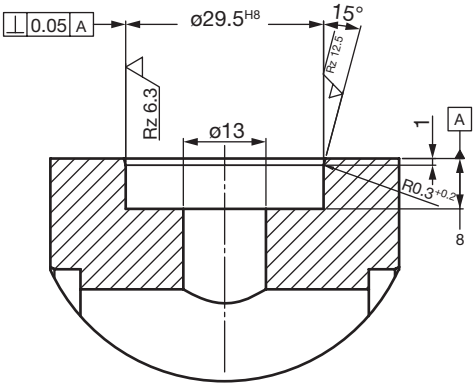
Model Codes containing RED are non-standard items – Minimum quantities may apply – Contact HYDAC for information and availability – Not all combinations are available

Dimensions



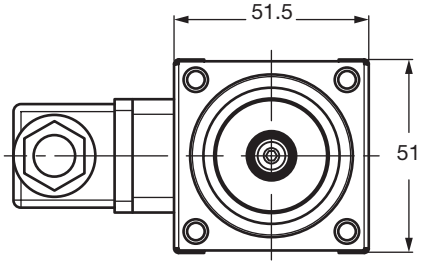


Cavity for CX Plug-In

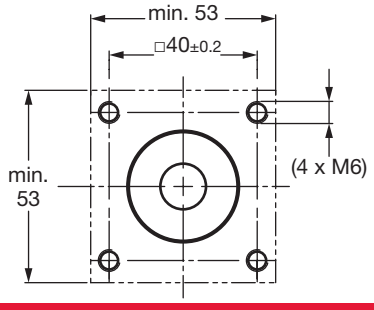


Screw tightening torque

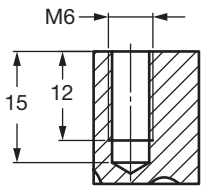
DN	Thread	M
10	M6	8 Nm



Hole pattern, mounting screws



Mounting thread



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2/2-Way Coaxial Valve Plug-In

CX06P to CX08P Pilot Operated Valve



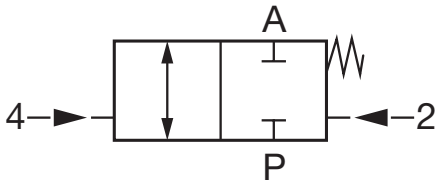
Description

The CX plug-in, allows you to remove and replace the valve from the modular block without disassembling the entire manifold. This is accomplished because the valve is now fully contained in the body as opposed to within the block itself.

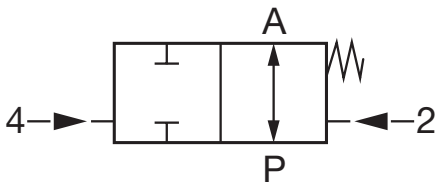
Features

- Reduced down time
- Minimizes risk of seal damage during reassembly

Switching Functions



NC (closed when denergized)



NO (open when denergized)

Technical Specifications

Control	2/2-way valve, pilot-operated
Nominal size	DN 10
Pressure range *see table)*	CX06P PN 0 to PN 64 CX07P PN 0 to PN 120 CX08P PN 0 to PN 160
Connections	Female threaded connection *(see table below)*
Body material	Brass *(stainless steel on request)*
Seal material	Static: FKM Dynamic: FKM CX06P PTFE CX07P / CX08P Seat seal: PTFE
Back-pressure resistant	Up to 16 bar *(capable of flow in both directions on request)*
Vacuum	Leakage rate $<10^{-6}$ mbar • l/s
Media	Gaseous, liquid, contaminated
Abrasive operating fluids	On request
Flow direction	P → A As marked A → P max. 16 bar
Temp. of fluid	-10 °C to +100 °C
Ambient temperature	-10 °C to +50 °C
Actuating part	Double acting piston with return spring
Mounting position	No orientation restrictions
Limit switch	Magnetic field sensor*

Pneumatic Part *(for pilot valve option)*

Control	5/2-way pilot valve*
Mounting pattern	Namur
Pilot pressure	3 to 8 bar
Air requirement	Approx. 7 cm^3 / stroke
Pilot ports 2+4	G1/8
Switching speed	CX valve can be adjusted steplessly by adjusting the supply to the pilot valve
Switching times	Open/close 50–1000 ms depending on pilot pressure, pilot valve and exhaust air throttle

Electrical Part *(for pilot valve option)*

Supply voltage	DC: 24 V AC: 230 V 40–60 Hz *(Special voltages on request)*
Electrical part	DC: DC solenoid AC: DC solenoid and female connector with integrated rectifier
Connection	-Female connector to industry standard, Form B -Female connector to industry standard, Form A* -Female connector to DESINA M12x1 and LED / VDMA M12x1 and LED * -Female connector with varistor and LED*
Voltage tolerance	±10% to VDE 0580
Duty cycle	100% duty cycle
Protection class	IP 65 when female connector is fitted

*optional

Series	DN [mm]	Pressure [bar]	Connection	Kv value [m3/h]	Weight [kg]
CX06P	10	0 – 64	G¼, G⅜, G½, G¾**	2.7	1.6
CX07P	10	0 – 120	G¼, G⅜, G½, G¾**	2.7	1.6
CX08P	10	0 – 100	G¼, G⅜, G½, G¾**	2.7	1.6

**Notes: Non-standard items

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Model Code

CX06P 2/2 F C 2 10 064 012 PV

Series Type
CX06P = CX06 Plug-in
CX07P = CX07 Plug-in
CX08P = CX08 Plug-in

Ways
2/2 = Number of ways

Control
F = External pilot

Switching Function
C = NC - Closed when De-energized
O = NO - Open when De-energized

Body Material
2 = Brass

Nominal size
10 = DN 10

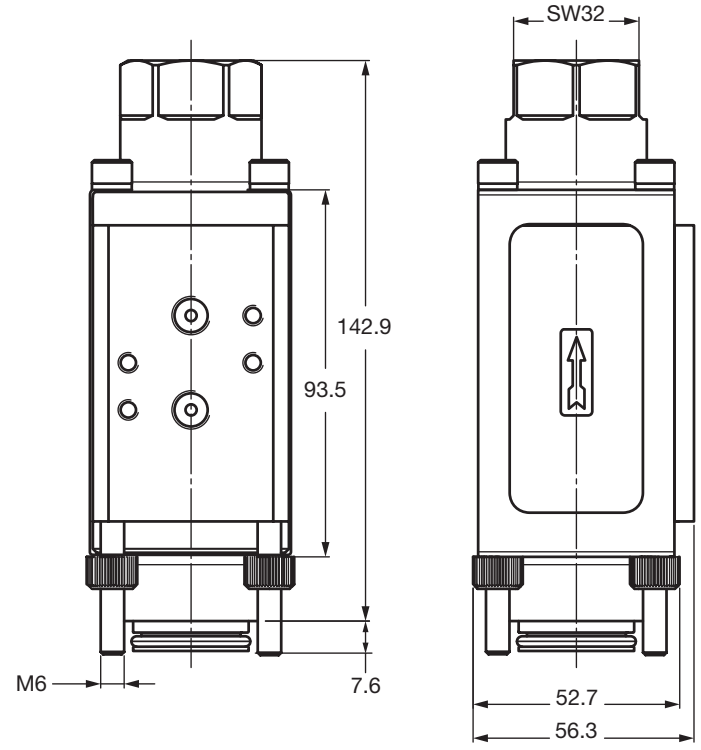
Pressure Range
064 = CX06P >0 - 64 bar
120 = CX07P >0 - 120 bar
160 = CX08P >0 - 160 bar

Connection
014 = G¼ - DN 10
038 = G⅜ - DN 10
012 = G½ - DN 10
034 = G¾ - DN 10*

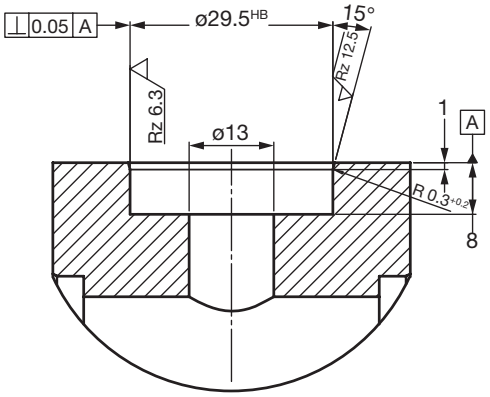
Option
PV = Pilot valve *(... acc. to accessories)*

Model Codes containing RED are non-standard items – Minimum quantities may apply – Contact HYDAC for information and availability – Not all combinations are available

Dimensions

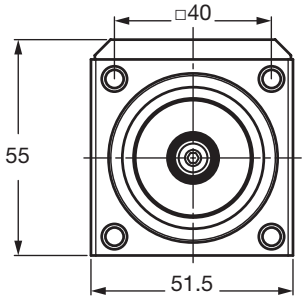


Cavity for CX Plug-In

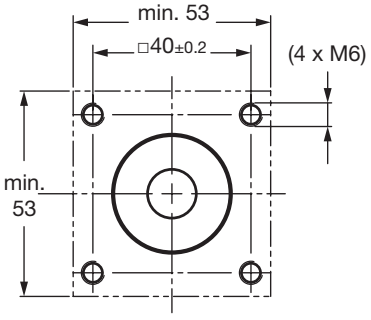


Screw tightening torque

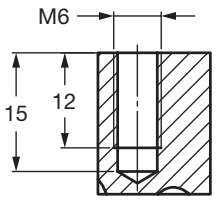
DN	Thread	M
10	M6	8 Nm



Hole pattern, mounting screws



Mounting thread



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2/2-Way Coaxial Valve Plug-In

CX02PM to CX05PM Direct Acting Valve



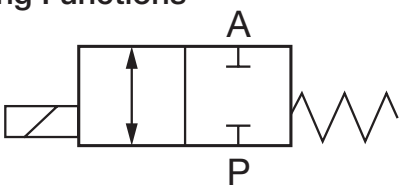
Description

The CX plug-in, allows you to remove and replace the valve from the modular block without disassembling the entire manifold. This is accomplished because the valve is now fully contained in the body as opposed to within the block itself.

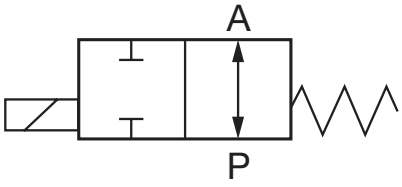
Features

- Reduced down time
- Minimizes risk of seal damage during reassembly

Switching Functions



NC (closed when denergized)



NO (open when denergized)

Technical Specifications

Control	2/2-way valve, direct acting	
Nominal size	DN 10	
Pressure range *see table)*	CX02P CX03P CX04P CX05P	PN 0 to PN 20 PN 0 to PN 40 PN 0 to PN 64 PN 0 to PN 100
Connections	Valve: Block:	G1/4 - G3/4 G1/2 - G1
Body material	Single Valve: Block:	Brass *(stainless steel on request)* Aluminum
Valve seat *(plastic on metal)*	FKM PTFE	CX02P / CX03P / CX04P CX05P
Seal material	Static: Dynamic:	FKM PTFE
Back-pressure resistant	Up to 16 bar	
Vacuum	Leakage rate $<10^{-6}$ mbar • l/s	
Media	Gaseous, liquid, contaminated	
Abrasive operating fluids	On request	
Flow direction	P → A A → P	Acc. to identification max. 16 bar
Temp. of fluid	-10 °C to +100 °C	
Ambient temperature	-10 °C to +50 °C	
Mounting position	No orientation restrictions	
Limit switch	Inductive*	
Fixing	Mounting bracket*	

Electrical Part

Supply voltage	DC: 24 V AC: 230 V 40–60 Hz
Electrical part	DC: DC magnet AC: DC magnet & connector plug with integrated rectifier
Connection	Connector plug to DIN EN 175301-803 Form A Connector plug with varistor and LED* Connector plug with M12x1 and LED* Connector plug to DESINA M12x1 and LED*
Voltage tolerance	±10% to VDE 0580
Duty cycle	100% duty cycle
Protection class	IP 65 when fitted with connector plug

*optional

Series	DN [mm]	Pressure [bar]	Connection	Kv value [m3/h]	Power consumption [W] 24V DC	Power consumption 230 V 50 Hz	Weight [kg]
CX02P	10	0 – 20	G¼, G⅜, G½, G¾**	2.5	25	29	1.7
CX03P	10	0 – 40	G¼, G⅜, G½, G¾**	2.5	35	41	1.7
CX04P	10	0 – 64	G¼, G⅜, G½, G¾**	2.5	44	53	1.7
CX05P	10	0 – 100	G¼, G⅜, G½, G¾**	2.5	44	53	1.7

**Notes: Non-standard items

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Model Code

CX03PM 2/2 D C 2 10 040 012 24V

Series Type
- CX02PM = Modular CX02 Plug-in
- CX03PM = Modular CX03 Plug-in
- CX04PM = Modular CX04 Plug-in
- CX05PM = Modular CX05 Plug-in

Ways
- 2/2 = Number of ways

Control
- D = Direct

Switching Function
- C = NC - Closed when De-energized
- O = NO - Open when De-energized

Body Material
- 2 = Brass

Nominal size
- 10 = DN 10

Pressure Range
- 020 = CX02P >0 - 20 bar
- 040 = CX03P >0 - 40 bar
- 064 = CX04P >0 - 64 bar
- 100 = CX05P >0 - 100 bar

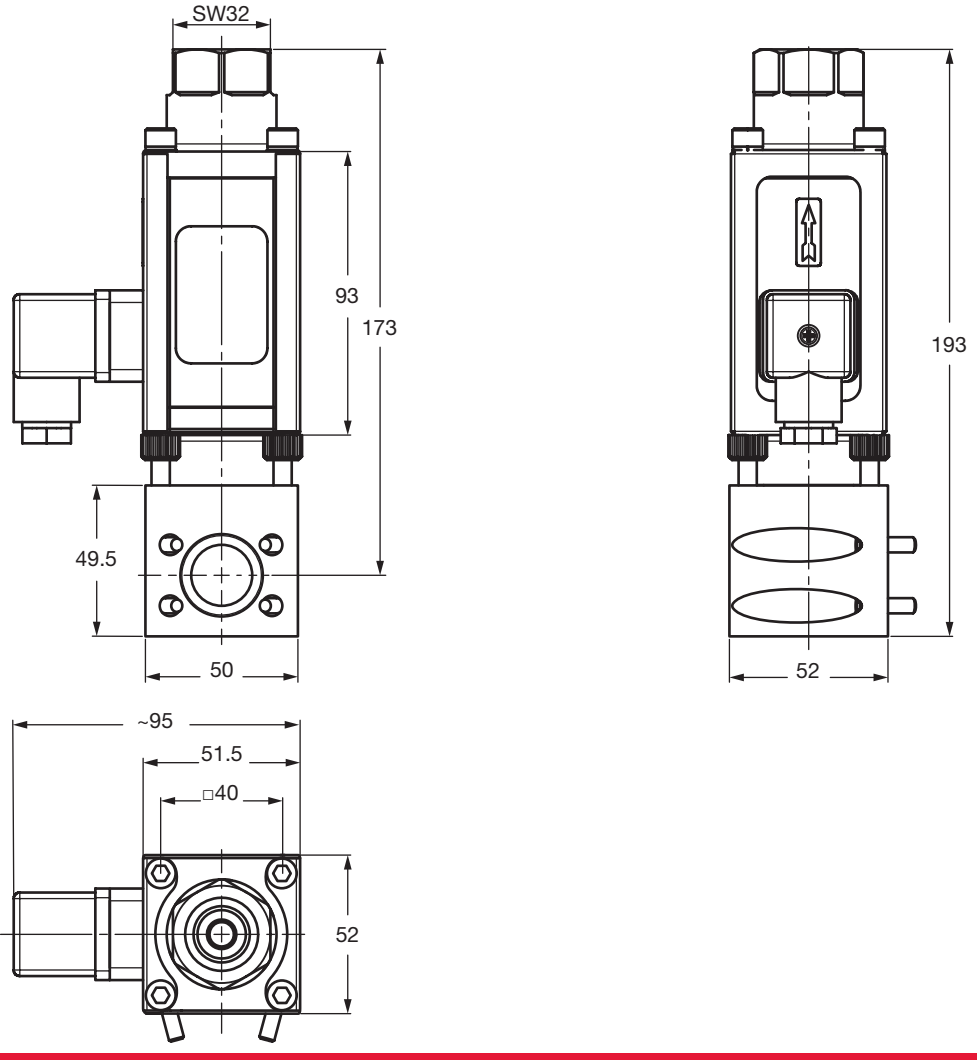
Connection
- 014 = G¼ - DN 10
- 038 = G⅜ - DN 10
- 012 = G½ - DN 10
- 034 = G¾ - DN 10*

Supply voltage
- 24V = 24 V DC
- 230V = 230 V AC 40 - 60 Hz

Special voltages on request

Model Codes containing RED are non-standard items – Minimum quantities may apply – Contact HYDAC for information and availability – Not all combinations are available

Dimensions



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2/2-Way Coaxial Valve Plug-In

CX06PM to CX08PM Pilot Operated Valve



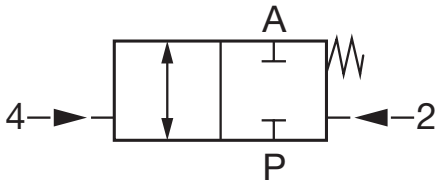
Description

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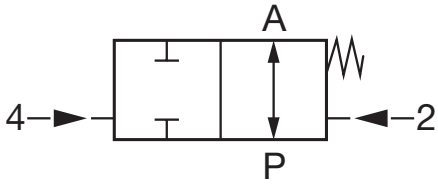
Features

- Reduced down time
- Minimizes risk of seal damage during reassembly

Switching Functions



NC (closed when denergized)



NO (open when denergized)

Technical Specifications

Control	2/2-way valve, pilot-operated	
Nominal size	DN 10	
Pressure range *see table)*	CX06P CX07P CX08P	PN 0 to PN 64 PN 0 to PN 120 PN 0 to PN 160
Connections	Valve: Connecting Blocks:	G¼ – G¾ G½ – G1
Body material	Single Valve: Block:	Brass *(stainless steel on request)* Aluminum
Seal material	Static: Dynamic: Seat seal:	FKM FKM PTFE PTFE
		CX06P CX07P / CX08P
Back-pressure resistant	Up to 16 bar *(capable of flow in both directions on request)*	
Vacuum	Leakage rate $<10^{-6}$ mbar • l/s	
Media	Gaseous, liquid, contaminated	
Abrasive operating fluids	On request	
Flow direction	P → A A → P	As marked max. 16 bar
Temp. of fluid	-10 °C to +100 °C	
Ambient temperature	-10 °C to +50 °C	
Actuating part	Double acting piston with return spring	
Mounting position	No orientation restrictions	
Limit switch	Magnetic field sensor*	
Mounting	Mounting bracket*	

Pneumatic Part *(for pilot valve option)*

Control	5/2-way pilot valve*
Mounting pattern	Namur
Pilot pressure	3 to 8 bar
Air requirement	Approx. 7 cm^3 / stroke
Pilot ports 2+4	G1/8
Switching speed	CX valve can be adjusted steplessly by adjusting the supply to the pilot valve
Switching times	Open/close 50–1000 ms depending on pilot pressure, pilot valve and exhaust air throttle

Electrical Part *(for pilot valve option)*

Supply voltage	DC: 24 V AC: 230 V 40–60 Hz *(Special voltages on request)*
Electrical part	DC: DC solenoid AC: DC solenoid and female connector with integrated rectifier
Connection	-Female connector to industry standard, Form B -Female connector to industry standard, Form A* -Female connector to DESINA M12x1 and LED / VDMA M12x1 and LED* -Female connector with varistor and LED*
Voltage tolerance	±10% to VDE 0580
Duty cycle	100% duty cycle
Protection class	IP 65 when female connector is fitted

*optional

Series	DN [mm]	Pressure [bar]	Connection	Kv value [m3/h]	Weight [kg]
CX06PM	10	0 – 64	G¼, G⅜, G½, G¾**	2.7	1.5
CX07PM	10	0 – 120	G¼, G⅜, G½, G¾**	2.7	1.5
CX08PM	10	0 – 100	G¼, G⅜, G½, G¾**	2.7	1.5

**Notes: Non-standard items

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Model Code

CX06PM 2/2 F C 2 10 064 012 PV

Series Type
- CX06PM = Modular CX06 Plug-in
- CX07PM = Modular CX07 Plug-in
- CX08PM = Modular CX08 Plug-in

Ways
- 2/2 = Number of ways

Control
- F = External pilot

Switching Function
- C = NC - Closed when De-energized
- O = NO - Open when De-energized

Body Material
- 2 = Brass *(valve)*, Aluminum *(block)*

Nominal size
- 10 = DN 10

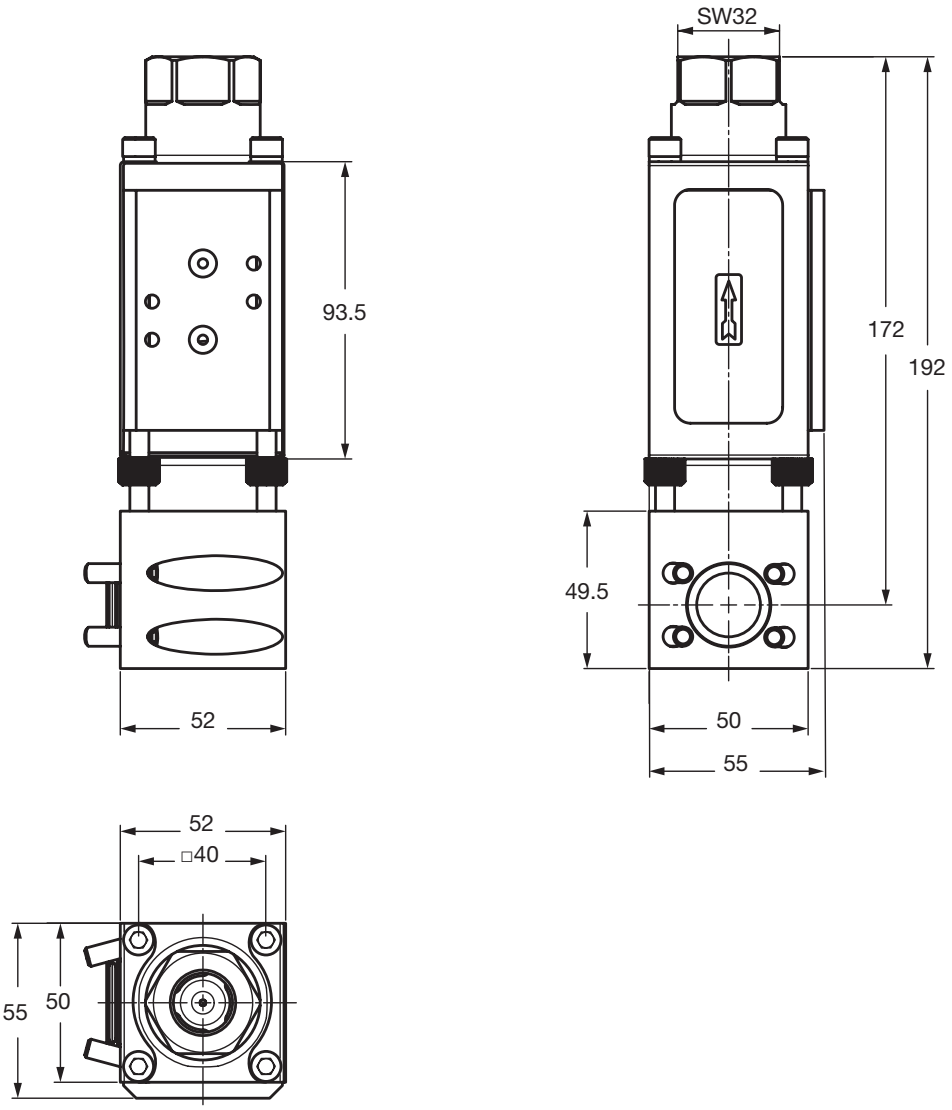
Pressure Range
- 064 = CX06P >0 - 64 bar
- 120 = CX07P >0 - 120 bar
- 160 = CX08P >0 - 160 bar

Connection
- 014 = G¼ - DN 10
- 038 = G⅜ - DN 10
- 012 = G½ - DN 10
- 034 = G¾ - DN 10*

Option
- PV = Pilot valve *(... acc. to accessories)*

Model Codes containing RED are non-standard items – Minimum quantities may apply – Contact HYDAC for information and availability – Not all combinations are available

Dimensions



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