HYDAC	INTERNATIONAL 2/2-way piston valve CXK01 and CXK02
	Model code CXK01 2/2 F C 3 15 025 012 PP
Switching function	Designation
А	CXK02 = series CXK02 - closes against the flow
	Ways 2/2 = number of ways
P NC (closed when de-energised)	Control F = external pilot
A	Switching function C = NC - closed when de-energised O = NO - open when de-energised
	Body material 3 = red bronze 6 = stainless steel
P NO (open when de-energised)	Nominal size 15 = DN 15 20 = DN 20 25 = DN 25 32 = DN 32 40 = DN 40 50 = DN 50
Orden dete	Pressure range (see table) 003 = 0 to 3 bar : : : 025 = 0 to 25 bar
 Nominal size 	
 Connection Function NC/NO Operating pressure Flow rate Medium 	012 = $G1/_2$ - DN 15 034 = $G3/_4$ - DN 20 100 = G1 - DN 25 114 = G11/_4 - DN 32 112 = G11/_2 - DN 40 200 = G2 - DN 50
Medium temperatureAmbient temperature	Sealing material (spindle/seat)
If order details or application data are inaccurate or incomplete, there is a risk that the technical configuration of the valves may not be correct for the desired use. This may result in the physical and/or chemical characteristics of the materials or seals used not being adequate for the intended use.	Red bronze PP = PTFE / PTFE Stainless steel PF = PTFE / FKM

EN 6.175.1/10.19

Technical specifications

Newinelaime							
Nominal Size			DN15 to DN50				
Pressure range				PN0 to PN25 (see table)			
Body material				Red bronze, stain			
Seal material		Ked pronze		Seat seal: Spindle seal:	PIFE PTFE optionally N	BR	
		Stainless steel		Spiriule seal.	FIL, optionally N		
		Stalliess steel		Spindle seal:	PTFE, optionally N	BR	
Flow rate			0 – approx. 792 l/min				
Medium temperature			-10 °C to +80 °C for NBR				
			-40 °C to +200 °C for PTFE				
Ambient temperature			max. +60 °C				
Connections			G½ - G2				
Operating fluid		Media		Aggressive, neutral, gaseous and liquid media, which do not have a negative effect on the physical and chemical properties of the material of the housing or sealing material concerned			
		Max. permit	ted pressure	See table			
		Max. permissible viscosity		600 m²/s			
Control medium		Medium		Neutral gases			
		Volume	Volume		Actuator size 50 mm 0.035 dm ³		
					nm 0.131 dm ³		
Control pressure				4 to 10 bar			
Pilot valve			optional 3/2-way pilot valve, with M12x1 connection possible				
Mounting position				No orientation res	trictions		
Series	DN	Pres	sure	Connection	Kv value	Material	
Series	DN [mm]	Pres bar – Ø 50	sure bar – Ø 80*	Connection	Kv value [m³/h]	Material	
Series	DN [mm] 15	Pres bar – Ø 50 0 – 16	sure bar – Ø 80*	Connection G ¹ / ₂	Kv value [m³/h] 4.6	Material	
Series	DN [mm] 15 20	Pres bar – Ø 50 0 – 16 0 – 16	bar – Ø 80* – 0 – 16	Connection G ¹ / ₂ G ³ / ₄	Kv value [m³/h] 4.6 9.4	Material	
Series CXK01	DN [mm] 15 20 25 22	Pres bar - Ø 50 0 - 16 0 - 16 0 - 16	bar – Ø 80* – 0 – 16 0 – 16	G1/2 G3/4 G1 C11/2	Kv value [m³/h] 4.6 9.4 17.4 21.5	Material Red bronze	
CXK01	DN [mm] 15 20 25 32 40	Pres bar – Ø 50 0 – 16 0 – 16 0 – 10 0 – 8	bar - Ø 80* - 0 - 16 0 - 16 0 - 16	Connection G ¹ / ₂ G ³ / ₄ G1 G1 ¹ / ₄ G1 ¹ / ₄	Kv value [m³/h] 4.6 9.4 17.4 21.5 26.4	Material	
Series CXK01	DN [mm] 15 20 25 32 40 50	Pres bar - Ø 50 0 - 16 0 - 16 0 - 16 0 - 10 0 - 8 0 - 4	bar - Ø 80* - 0 - 16 0 - 16 0 - 16 0 - 16 0 - 16	Connection G ¹ / ₂ G ³ / ₄ G1 G1 ¹ / ₄ G1 ¹ / ₂ G2	Kv value [m³/h] 4.6 9.4 17.4 21.5 26.4 47.5	Material Red bronze	
Series CXK01	DN [mm] 15 20 25 32 40 50 15	Pres bar - Ø 50 0 - 16 0 - 16 0 - 16 0 - 10 0 - 8 0 - 4 0 - 25	bar - Ø 80* - 0 - 16 0 - 16 0 - 16 0 - 16 0 - 16 0 - 16 -	Connection G ¹ / ₂ G ³ / ₄ G1 G1 ¹ / ₄ G1 ¹ / ₂ G2 G ¹ / ₂	Kv value [m³/h] 4.6 9.4 17.4 21.5 26.4 47.5 4.6	Material	
Series CXK01	DN [mm] 15 20 25 32 40 50 15 20	Pres bar - Ø 50 0 - 16 0 - 16 0 - 16 0 - 10 0 - 8 0 - 4 0 - 25 0 - 20	bar - Ø 80* - 0 - 16 0 - 16 0 - 16 0 - 16 0 - 16 0 - 16 - -	G1/2 G3/4 G1 G11/2 G2 G1/2 G3/4	Kv value [m³/h] 4.6 9.4 17.4 21.5 26.4 47.5 4.6 9.4	Material Red bronze	
Series CXK01	DN [mm] 15 20 25 32 40 50 15 20 25	Pres bar - Ø 50 0 - 16 0 - 16 0 - 16 0 - 10 0 - 8 0 - 4 0 - 25 0 - 20 0 - 16	bar - Ø 80* - 0 - 16 0 - 16 0 - 16 0 - 16 0 - 16 0 - 16 - - - 0 - 25	G1/2 G3/4 G1 G1/2 G1/2 G2 G1/2 G3/4	Kv value [m³/h] 4.6 9.4 17.4 21.5 26.4 47.5 4.6 9.4 17.4	Material	
Series CXK01 CXK01	DN [mm] 15 20 25 32 40 50 15 20 25 32	Pres bar - Ø 50 0 - 16 0 - 16 0 - 16 0 - 10 0 - 8 0 - 4 0 - 25 0 - 20 0 - 16 0 - 9	bar - Ø 80* - 0 - 16 0 - 16 0 - 16 0 - 16 0 - 16 0 - 16 - - 0 - 25 0 - 25	Connection G ¹ / ₂ G ³ / ₄ G1 G1 ¹ / ₄ G1 ¹ / ₂ G2 G ¹ / ₂ G ³ / ₄ G1 G ¹ / ₄ G1 G ³ / ₄	Kv value [m³/h] 4.6 9.4 17.4 21.5 26.4 47.5 4.6 9.4 17.4 21.5 26.4 47.5 4.6 9.4 17.5 4.6 9.4 17.4 21.5	Material	
Series CXK01 CXK01	DN [mm] 15 20 25 32 40 50 15 20 25 32 40	Pres bar - Ø 50 0 - 16 0 - 16 0 - 16 0 - 10 0 - 8 0 - 4 0 - 25 0 - 20 0 - 16 0 - 9 0 - 7	bar - Ø 80* - 0 - 16 0 - 16 0 - 16 0 - 16 0 - 16 0 - 16 - - 0 - 25 0 - 25 0 - 20	Connection G1/2 G3/4 G1 G11/2 G2 G1/2 G3/4 G1/2	Kv value [m³/h] 4.6 9.4 17.4 21.5 26.4 47.5 4.6 9.4 17.4 21.5 26.4 47.5 4.6 9.4 17.4 21.5 26.4	Material Red bronze Stainless steel	
Series CXK01 CXK01	DN [mm] 15 20 25 32 40 50 15 20 25 32 40 50	Pres bar - Ø 50 0 - 16 0 - 16 0 - 16 0 - 10 0 - 8 0 - 4 0 - 25 0 - 20 0 - 16 0 - 9 0 - 7 0 - 4	bar Ø 80* - - 0 -	Connection G1/2 G3/4 G1 G11/2 G2 G1/2 G3/4 G11/2 G2 G1/2 G1/2 G1/2 G1/2 G2/2 G1/2 G2/2 G1/2 G2 G1/2 G2	Kv value [m³/h] 4.6 9.4 17.4 21.5 26.4 47.5 4.6 9.4 17.5 26.4 47.5 4.6 9.4 17.4 21.5 26.4 4.7.5	Material Red bronze Stainless steel	
Series CXK01 CXK01	DN [mm] 15 20 25 32 40 50 15 20 25 32 40 50 50 15	Pres bar - Ø 50 0 - 16 0 - 16 0 - 16 0 - 10 0 - 8 0 - 4 0 - 25 0 - 20 0 - 16 0 - 16 0 - 9 0 - 7 0 - 4 0 - 16 0 - 9 0 - 7 0 - 4 0 - 16 0 - 9 0 - 7 0 - 4 0 - 16 0 - 16 0 - 9 0 - 7 0 - 4 0 - 16	bar Ø 80* - - 0 -	Connection G ¹ / ₂ G ³ / ₄ G1 G1 ¹ / ₄ G1 ¹ / ₂ G2 G ¹ / ₂ G ³ / ₄ G1 G1 ¹ / ₄ G1 ¹ / ₂ G2 G ¹ / ₂ G ² G ¹ / ₂ G ¹ / ₂ G ² G ¹ / ₂ G ² G ¹ / ₂ G ³ / ₄ G ¹ G ¹ / ₂ G ² G ¹ / ₂ G ¹ / ₂	Kv value [m³/h] 4.6 9.4 17.4 21.5 26.4 4.6 9.4 17.4 21.5 26.4 4.6 9.4 17.5 26.4 4.6 9.4 17.4 21.5 26.4 4.6 9.4 17.4 21.5 26.4 47.5 4.6 9.4	Material	
Series CXK01 CXK01	DN [mm] 15 20 25 32 40 50 15 20 25 32 40 50 15 20 25	Pres bar - Ø 50 0 - 16 0 - 16 0 - 16 0 - 10 0 - 8 0 - 4 0 - 25 0 - 20 0 - 16 0 - 9 0 - 7 0 - 4 0 - 16 0 - 1	$bar - \emptyset \ 80^*$ $-$ $0 - 16$ $0 - 16$ $0 - 16$ $0 - 16$ $0 - 16$ $0 - 16$ $0 - 25$ $0 - 25$ $0 - 25$ $0 - 25$ $0 - 20$ $0 - 12$ $-$ $-$ $-$ $-$	Connection G½ G¾ G1 G1½ G2 G½ G¾ G1½ G2 G¼ G1½ G2 G¼ G1 G1¼ G1¼ G1¼ G1½ G2 G¼ G1½ G2 G½ G½ G2 G½ G2 G½ G2 G½ G2 G½ G3¼ Q4	Kv value [m³/h] 4.6 9.4 17.4 21.5 26.4 47.5 4.6 9.4 17.4 21.5 26.4 47.5 4.6 9.4 17.4 21.5 26.4 47.5 4.6 9.4 17.4 21.5 26.4 47.5 4.6 9.4	Material Red bronze Stainless steel	
Series CXK01 CXK01 CXK01	DN [mm] 15 20 25 32 40 50 15 20 25 32 40 50 15 20 25 20 25 22 25	Pres bar - Ø 50 0 - 16 0 - 16 0 - 16 0 - 10 0 - 8 0 - 4 0 - 25 0 - 20 0 - 16 0 - 9 0 - 7 0 - 4 0 - 16 0 - 16 0 - 16 0 - 16 0 - 16 0 - 10 0 - 10 0 - 7	$bar - \emptyset \ 80^*$ $-$ $0 - 16$ $0 - 16$ $0 - 16$ $0 - 16$ $0 - 16$ $0 - 16$ $0 - 25$ $0 - 25$ $0 - 25$ $0 - 25$ $0 - 20$ $0 - 12$ $-$ $-$ $0 - 16$ $0 - 16$ $0 - 16$ $0 - 16$ $0 - 16$ $0 - 10$	Connection G½ G¾ G1 G1½ G1½ G1½ G2 G½ G¾ G1 G1½ G2 G¼ G1 G1½ G¾ G1 G1½ G2 G½ G2 G½ G2 G½ G2 G½ G2 G½ G3¼ G1 G141/	Kv value [m³/h] 4.6 9.4 17.4 21.5 26.4 47.5 4.6 9.4 17.4 21.5 26.4 4.6 9.4 17.4 21.5 26.4 4.6 9.4 17.4 21.5 26.4 47.5 4.6 9.4 17.4 21.5	Material Red bronze Stainless steel Red bronze	
Series CXK01 CXK01 CXK02	DN [mm] 15 20 25 32 40 50 15 20 25 32 40 50 15 20 25 32 40 25 32 40	Pres bar - Ø 50 0 - 16 0 - 16 0 - 16 0 - 10 0 - 8 0 - 4 0 - 25 0 - 20 0 - 16 0 - 9 0 - 7 0 - 4 0 - 16 0 - 16 0 - 16 0 - 16 0 - 10 0 - 7 0 - 4 0 - 16 0 - 10 0 - 7 0 - 6	$bar - \emptyset \ 80^*$ $-$ $0 - 16$ $0 - 16$ $0 - 16$ $0 - 16$ $0 - 16$ $0 - 16$ $-$ $-$ $0 - 25$ $0 - 25$ $0 - 25$ $0 - 25$ $0 - 20$ $0 - 12$ $-$ $-$ $0 - 16$ $0 - 12$ $0 - 12$ $0 - 8$	Connection G½ G¾ G1 G1½ G1½ G1½ G1½ G2 G½ G¾ G1 G1½ G2 G¼ G1 G1½ G2 G½ G½ G1½ G2 G½ G¾ G1 G1½ G2 G½ G¾ G1 G1½ G3¼ G1 G1¼ G1¼ G1¼	Kv value [m³/h] 4.6 9.4 17.4 21.5 26.4 47.5 4.6 9.4 17.4 21.5 26.4 47.5 4.6 9.4 17.4 21.5 26.4 47.5 4.6 9.4 17.4 21.5 4.6 9.4 17.4 21.5 26.4 17.4 21.5 26.4	Material Red bronze Stainless steel Red bronze	
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Series CXK01 CXK01 CXK02	DN [mm] 15 20 25 32 40 50 15 20 25 32 40 50 15 20 25 32 40 50 25 32 40 50 15	Pres bar $- \emptyset 50$ 0 - 16 0 - 16 0 - 10 0 - 25 0 - 25 0 - 20 0 - 16 0 - 7 0 - 16 0 - 7 0 - 16 0 - 7 0 - 16 0 - 16 0 - 16 0 - 16 0 - 16 0 - 16 0 - 16 0 - 16	$bar - \emptyset \ 80^*$ $-$ $0 - 16$ $0 - 16$ $0 - 16$ $0 - 16$ $0 - 16$ $0 - 16$ $0 - 25$ $0 - 25$ $0 - 25$ $0 - 25$ $0 - 25$ $0 - 25$ $0 - 12$ $-$ $-$ $0 - 16$ $0 - 12$ $-$ $0 - 16$ $0 - 12$ $-$ $-$ $0 - 16$ $0 - 5$ $-$	Connection G½ G¾ G1 G1½ G2 G½ G3¼ G1 G1½ G2 G¼ G1 G1½ G2 G¼ G1 G1½ G2 G½ G½ G¼ G1 G1½ G1 G1¼ G1 G1¼ G1 G1¼ G1 G1¼ G1½ G2 G½ G2 G½ G2 G½	Kv value [m³/h] 4.6 9.4 17.4 21.5 26.4 4.6 9.4 17.4 21.5 26.4 4.6 9.4 17.4 21.5 26.4 47.5 4.6 9.4 17.4 21.5 26.4 47.5 4.6 9.4 17.4 21.5 26.4 47.5 4.6 9.4 17.4 21.5 26.4 47.5 26.4 47.5 26.4 47.5 26.4	Material Red bronze Stainless steel Red bronze	
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Series CXK01 CXK01 CXK02	DN [mm] 15 20 25 32 40 50 15 20 25 32 40 50 15 20 25 32 40 50 15 20 25 32 40 50 15 20 25 32 25 32	Pres bar - \emptyset 50 0 - 16 0 - 16 0 - 16 0 - 10 0 - 25 0 - 25 0 - 20 0 - 16 0 - 7 0 - 7 0 - 16 0 - 16 0 - 7 0 - 6 0 - 16 0 - 16 0 - 16 0 - 16 0 - 16 0 - 16 0 - 7 0 - 16 0 - 10 0 - 7 0 - 10	$\begin{array}{c c} \text{ssure} \\ bar - \emptyset \ 80^* \\ \hline \\ 0 \ - \ 16 \\ 0 \ - \ 16 \\ 0 \ - \ 16 \\ 0 \ - \ 16 \\ 0 \ - \ 16 \\ 0 \ - \ 16 \\ \hline \\ 0 \ - \ 25 \\ 0 \ - \ 25 \\ 0 \ - \ 25 \\ 0 \ - \ 25 \\ \hline 0 \ - \ 12 \\ \hline \\ 0 \ - \ 12 \\ \hline \\ 0 \ - \ 16 \\ \hline \\ 0 \ - \ 12 \\ \hline \\ 0 \ - \ 16 \\ \hline \\ 0 \ - \ 12 \\ \hline \\ 0 \ - \ 16 \\ \hline \\ 0 \ - \ 12 \\ \hline \\ 0 \ - \ 16 \\ \hline \\ 0 \ - \ 12 \\ \hline \\ 0 \ - \ 16 \\ \hline \\ 0 \ - \ 12 \\ \hline \\ 0 \ - \ 16 \\ \hline \\ 0 \ - \ 12 \\ \hline \\ 0 \ - \ 16 \\ \hline \\ 0 \ - \ 12 \\ \hline \\ 0 \ - \ 16 \\ \hline \\ 0 \ - \ 12 \\ \hline \\ 0 \ - \ 16 \\ \hline \\ 0 \ - \ 12 \\ \hline \\ 0 \ - \ 16 \\ \hline \\ 0 \ - \ 12 \\ \hline \\ 0 \ - \ 16 \\ \hline \\ 0 \ - \ 12 \\ \hline \\ 0 \ - \ 16 \\ \hline \\ 0 \ - \ 12 \\ \hline \\ 0 \ - \ 16 \\ \hline \\ \end{array}$	Connection G½ G¾ G1 G1½ G2 G½ G¾ G1 G1½ G2 G¼ G1 G1½ G3¼ G1 G1½ G2 G½ G2 G½ G3¼ G1 G1½ G2 G1½ G2 G1½ G2 G1½ G2 G1½ G2 G½ G2 G½ G2 G½ G3¼ G1	Kv value [m³/h] 4.6 9.4 17.4 21.5 26.4 47.5 4.6 9.4 17.4 21.5 26.4 47.5 4.6 9.4 17.4 21.5 26.4 47.5 26.4 47.5 26.4 47.5 26.4 47.5 26.4 47.5 26.4 9.4 17.4 21.5 26.4 9.4 17.4 21.5 26.4 47.5 4.6 9.4 17.4 9.4 17.4	Material Red bronze Stainless steel Red bronze	
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Series CXK01 CXK01 CXK02 CXK02	DN [mm] 15 20 25 32 40 50 15 20 25 32 40 50 15 20 25 32 40 50 15 20 25 32 40 50 15 20 25 32 40 50 25 32 40	Pres $bar - \emptyset 50$ $0 - 16$ $0 - 16$ $0 - 16$ $0 - 10$ $0 - 8$ $0 - 4$ $0 - 25$ $0 - 25$ $0 - 20$ $0 - 16$ $0 - 7$ $0 - 4$ $0 - 16$ $0 - 16$ $0 - 16$ $0 - 16$ $0 - 16$ $0 - 16$ $0 - 7$ $0 - 6$ $0 - 16$ $0 - 16$ $0 - 7$ $0 - 7$ $0 - 16$ $0 - 7$ $0 - 7$ $0 - 7$ $0 - 7$ $0 - 7$ $0 - 7$ $0 - 7$	$\begin{array}{c c} \text{ssure} \\ \hline bar - \emptyset \ 80^* \\ \hline \\ 0 - 16 \\ 0 - 16 \\ 0 - 16 \\ 0 - 16 \\ \hline \\ 0 - 16 \\ 0 - 25 \\ 0 - 25 \\ 0 - 25 \\ 0 - 25 \\ 0 - 25 \\ 0 - 25 \\ 0 - 25 \\ 0 - 12 \\ \hline \\ 0 - 12 \\ \hline \\ 0 - 12 \\ \hline \\ 0 - 5 \\ \hline \\ 0 - 5 \\ \hline \\ 0 - 25 \\ 0 - 16 \\ 0 - 10 \\ 0 - 10 \\ 0 - 8 \\ \end{array}$	Connection G½ G¾ G1 G1½ G2 G½ G¾ G1 G1½ G2 G¼ G1 G1½ G2 G¼ G1 G1½ G2 G½ G¾ G1 G1½ G¾ G1 G1¼ G1½ G¾ G1 G1¼ G1½ G2 G½ G¾ G1 G1½ G¾ G1 G1½ G¾ G1 G1½ G¾ G1 G1½ G¾ G1 G1¼ G1¼ G1¼ G1¼ G1½	Kv value [m³/h] 4.6 9.4 17.4 21.5 26.4 47.5 4.6 9.4 17.4 21.5 26.4 47.5 4.6 9.4 17.4 21.5 26.4 47.5 4.6 9.4 17.4 21.5 26.4 47.5 4.6 9.4 17.4 21.5 26.4 47.5 4.6 9.4 17.4 21.5 26.4 4.6 9.4 17.4 21.5 26.4	Material Red bronze Stainless steel Red bronze Stainless steel Stainless steel	

*Actuator Ø 80 as option

A The material specifications refer exclusively to the valve connection parts in contact with the medium.



The valves are technically configured for specific media and applications. This may result in deviations from the general information given in the data sheet in terms of the design, sealing materials and specifications.

Operating pressure / control pressure graph



CXK01 NC closes with the flow, normally closed









Accessories



We would be happy to discuss your requirements for further options and accessories.

NOTE

The information in this brochure relates to the operating conditions and applications described. For applications and operating conditions not described, please contact the relevant technical department.

The operator is always responsible for determining the product suitability for the specific application. Quantified values for product characteristics are average values for a new product that undergo a time deterioration process.

Subject to technical modifications and errors.

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