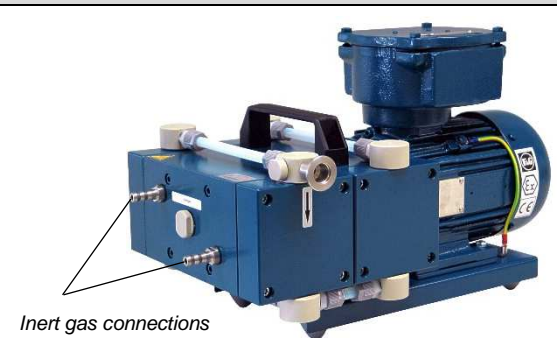


Data Sheet (EN)

Translation of the german original

Designation, Model	Order no.
Diaphragm pump chemical resistant in an explosion-proof Design Model: Ex MPC 601 Tp Ex II 2G c IIB T4 X (10°C ≤ Ta ≤ 40°C)	4000511-04

Figure	Description
 <p>Inert gas connections</p>	<p>The three-phase diaphragm pump consists of the pump casing, the drive unit and the drive motor.</p> <p>The pump casing contains the drive unit and four pump heads. Each pump head contains a diaphragm and the work valves.</p> <p>The pump heads are arranged in a horizontally-opposed pattern.</p> <p>The pump heads are driven via an eccentric shaft with a connecting rod.</p>

Technical Data		
Parameter	Unit	MPC 601 Tp Ex
Ex-Marking	-	Ex II 2G c IIB T4 X (10°C ≤ Ta ≤ 40°C)
Type Examination Certificate no.	more information	IBExU04ATEXB018 X
Pumping speed	m ³ / h	4.5
DIN 28432 (at speed of 1500 rpm)	l / min	75
Ultimate pressure (at speed of 1500 rpm)	mbar	< 2
Max. Inlet pressure	bar	1
Max. Outlet pressure (absolute pressure)	bar	1.5 *)
Inert flushing of the drive	l / h	20 ±10 % **)
Intake-/ Exhaust pressure	-	Small flange DN 16 KF
Operating temperature	°C	+ 10 to + 40
Max. Operating gas temperature (measured on the inlet of the vacuum pump)	°C	+ 60 *)
Bearing		maintenance-free
Reference surface sound pressure level DIN EN ISO 2151	dB (A)	< 44
Voltage / Frequency	V, Hz	400, 50
Three-phase a.c. motor – model (without motor protection switch, switch and cable)	-	Ex CD 71 L – 4 II 2G EEx de IIC T4 PTB 99 ATEX 1051
Power	W	370
Operating mode	-	S 1
Type of protection DIN EN 60529	-	IP 55
Weight	kg	29.7
Dimensions (W/D/H) (without connections)	mm	240 / 425 / 272

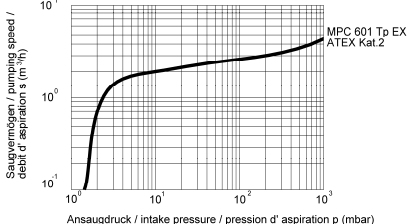
*) If this value is exceeded, the information about the temperature class inside and outside is no longer applicable.

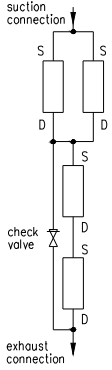
**) The inert gas flushing must be monitored. When exceeding or falling below the tolerances, the pump must be switched off.

Data Sheet (EN)

Translation of the german original

WELCH
by Gardner Denver

Intake pressure- / Pumping speed - Diagram	Materials of the medium-affecting Pump parts	
	Connection heads / Pump heads with Insert	PTFE carbon-fibre reinforced
	O-Rings	EPDM
	Screw fittings	PVDF
	Valves	PEEK
	Diaphragms	Elastomer + PTFE-Layer
	Manifolds	PP

Circuitry of the Pump heads	Particularities	
	<p>The two pump heads are connected in parallel, two further pumps in series.</p>	<p>The three-stage model of the diaphragm pump is fitted with a bypass and a non-return valve parallel to the second and third stages. These serve to relieve any intermediate compression which may occur at the start or while working in the upper pressure range.</p> <p>During maintenance or repair, ensure that they are fitted in the correct position and that they function correctly according to the wiring.</p>

Application
<p>The Diaphragm pump in an explosion-proof Design is intended to:</p> <ul style="list-style-type: none"> • Aspirating, pumping and compressing neutral and aggressive gases and vapors. • Generating a vacuum down to an ultimate pressure < 2 mbar. • Aspirating, pumping and compressing an explosive atmosphere – comprising air and combustible gases, vapors and mists in any mix ratio – from zone 1 areas at risk of explosion (device category 2 according to ATEX). • Installation and operation of the diaphragm pumps in zone 1 areas at risk of explosion (device category 2 according to ATEX). • The permissible temperature classes and explosion groups of the atmospheres – comprising air and combustible gases, vapors and mists in any mix ratio – that are to be pumped or which are ambient are determined according to the specifications of standard EN 13 463-1. The diaphragm pumps mentioned here have been assigned to T4 IIB. <p>Substances that tend to decompose spontaneously, such as acetylene C₂H₂, carbon disulfide CS₂ and explosives, lie outside the scope of the application of ATEX-Directive 2014/34/EU.</p>



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