



CHARACTERISTICS

- **STANDARD VERSION:**
LOADING FILTER
WITH GREASER
- STANDARD VERSION CAN BE INTEGRATED WITH UP TO THREE PUMPING ELEMENTS
- **AVAILABLE PUMPING ELEMENTS:** FIXED Ø 8 MM WITH FLOW RATE OF 17 CM³ / MIN
- ADJUSTABLE Ø 8 MM WITH FLOW RATE OF 17 CM³ / MIN
- **PRESSURE:** 300 BAR
- **TANK:** 5 - 10 KG

ADVANTAGES

- **REDUCTION OF COSTS:**
SPECIFICALLY DESIGNED FOR APPLICATIONS THAT REQUIRE A COMPACT AND LOW-COST PRODUCT.
- **VERSATILE:** COMBINING THREE PUMP ELEMENTS FOR HIGHER OUTPUT OR MANAGE UP TO THREE LUBRICATION LINES.

APPLICATIONS

- **SMALL-MEDIUM MACHINE TOOLS,** SUCH AS CNC OR PRESS.
- **WIDE RANGE OF APPLICATIONS** INCLUDING: COMPACTORS, WOOD OR GLASS OPERATING MACHINES.

THE COMPACT, LOW-COST PUMP: IDEAL FOR MEDIUM-SMALL SYSTEMS

COMPACT AND LOW COST

The **989 series** is ideal for application where space and costs are key factors. The pump integrates perfectly with the Sumo and Mini Sumo range of electric pumps, from which it inherits the main features, such as: modularity, quality and performance. For these reasons, Series 989 represents the perfect solution for an extensive range of applications.

STANDARD EQUIPMENT

The standard version is ready equipped to satisfy the requirements in small-medium machine tools applications. The pump is complete with refilling filter, electric minimum level and a pumping element.

FITS YOUR APPLICATION NEEDS

989 pump series can fit the changing needs of your application.

The availability of installing up to two pumping element (with fixed or adjustable delivery) gives you two different options: to triple the standard flow or connect three lubrication lines directly to the pump.

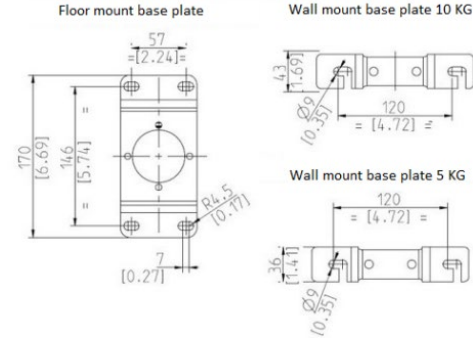
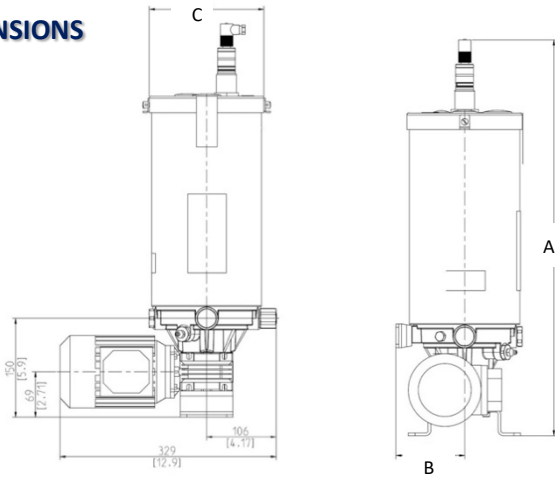


TECHNICAL INFORMATION

ELECTRICAL SPECIFICATIONS	
Motor power supply	230 - 400V - ±10% 50 Hz 280 - 480V - ±10% 60 Hz 24V DC UL version available Insulation class F
Motor power rating	0.11 kW
Motor grade of protection	IP 55
Grease minimum level	Laser 24V cc Out NO and NC 1 threshold – Capacitive (optional greases NLGI00~NLGI000)
Oil minimum level	Float
Maximum level	Laser 24V cc Out NO and NC 1 threshold (optional)
HYDRAULIC SPECIFICATIONS	
Pumping system	Piston
Flow rate (1 pumping element)	17 cc / min (fixed) – 3~17 cc / min (adjustable)
No. of pumping elements	Max 3
Maximum operating pressures	300 bar (4351 PSI)
Outlet connection	1/4" BSP
Reservoir capacity	5 - 10 kg (11-22 lbs)
Filling filter	Filtering grade 220 µ
Operating temperature	- 10 ÷ + 50 °C (+14~122F)
Operating humidity	90% R.H.
Permitted lubricants ⁽¹⁾	grease NLGI000~NLGI2 – Oil min 32 cst
Storage temperature	-40 ÷ +65 °C (-40~149F)
Continuous sound pressure level	< 70 dB (A)



DIMENSIONS



	A – mm [in]	B – mm [in]	C – mm [in]
5 kg	596 [23.4]	103.5 [4]	175 [6.88]
10 kg	648 [25.5]	122.5 [4.8]	230 [9]

PUMP 989 v2				Data base	4°	5°/6°	7°	8°	9°	10°	11°
			989	0	00	0	0	0	0	0	0
	Description	DROPSA Code	Code								
Reservoir	Without reservoir	-	0								
	5 kg	0297402	1								
	10 kg	0297408	2								
Electric motor	Motor not present	-	00								
	STANDARD										
	3PH-230/400V 50Hz 280/480V 60Hz	3301000	01								
	3PH-440V-60Hz	3301000-440V-60HZ	02								
	3PH-460V-60Hz	3301000-460V-60HZ	03								
	1PH-110V-60Hz	3140867	04								
	3PH-230/400V 50Hz 280/480V 60Hz UL-CSA	3301730	05								
	3PH-280/360V 60Hz UL-CSA	3301823	06								
	3PH-600V 60Hz UL-CSA	3301839	07								
	24V CC	3301801	10								
	3PH-400V-50Hz	3301000-400V-50HZ	11								
	3PH-400V-60Hz	3301000-400V-60HZ	12								
	3PH-480V-60Hz	3301000-400V-60HZ	13								
	3PH-440V-50Hz	3301000-440V-50HZ	14								
	3PH-380V-50Hz	3301000-380V-50HZ	15								
	3PH-480V-60Hz-UL	3301000-480V-60HZ-UL	16								
	3PH-480Y-277V-60Hz	3301000-480Y-277V-60Hz	17								
	3PH-415V-50Hz	3301000-415V-50Hz	18								
	3PH-460V-60Hz-UL	3301000-460V-60HZ-UL	19								
Pumping elements	Without pumping elements	0297418 (x3)	0								
	One fixed flow rate pumping element	0297420+0297418 (x2)	1								
	Two fixed flow rate pumping elements	0297420 (x2)+0297418	2								
	Three fixed flow rate pumping elements	0297420	3								
	One adjustable flow rate pumping element	0297430+0297418 (x2)	4								
	Two adjustable flow rate pumping elements	0297430 (x2)+0297418	5								
	Three adjustable flow rate pumping elements	0297430	6								
Minimum level	STANDARD GREASE VERSION with laser sensor 0295131, 24Vdc Out NO and NC (1 threshold))	3133885	0								
	Capacitive level (5 kg) grease NLGI00/NLGI000	0297409	1								
	Capacitive level (10 kg) grease NLGI00/NLGI000	0297425	2								
	Oil float level (5 kg)	1655767-3079041-1523807	3								
	Oil float level (10 kg)	1655768-3079041-1523807	4								
Maximum level	The standard pump is supplied without the max level	-	0								
	Laser 24V cc Out NO and NC (1 threshold)	3133885 *grease	1								

(*) The top-level laser sensor is available only for grease versions.



OPTIONAL KITS AND ACCESSORIES			
CODE	DESCRIPTION	CODE	DESCRIPTION
0297420C	Fixed flow rate pumping element 17 cc/min	**0299450	External By-Pass 0~250 bar
0297430C	Adjustable flow rate pumping element 3~17 cc/min	0086450	Hydraulic inverter 60~300 bar
3133885	Laser Kit 24V cc Out NO and NC (1 threshold)	0020551	Pressure gauge 0~250 bar
3133886	Pallet kit	3292099	Pressure gauge 0~400 bar
*0888036	External By-Pass 0~250 bar		

* Available for 2-3 outputs with fixed pumps ** To be fixed on the pallet (3 inputs)