

Technical Data Sheet	M189(L)	Oil service
	M189(L)VE	Water service



M189(L)
single acting, single air drive head
(Standard= Bottom inlet)

Technical Data:

Air drive pressure:	1-10 bar / 14,5—145 psi
Calculated Outlet Pressure at an air drive of 10 bar/145 psi	2,200 bar/ 31,900 psi
Pressure ratio:	1:220
Displacement volume/double stroke	0.6 cm ³ / 0.04 cu.inch
Connections	
Inlet:	Standard: Bottom inlet 3/8 BSP
Outlet:	3/8 BSP
Air drive	3/8 BSP
Maximum operating temperature	60°C
Net weight	2.8 kg

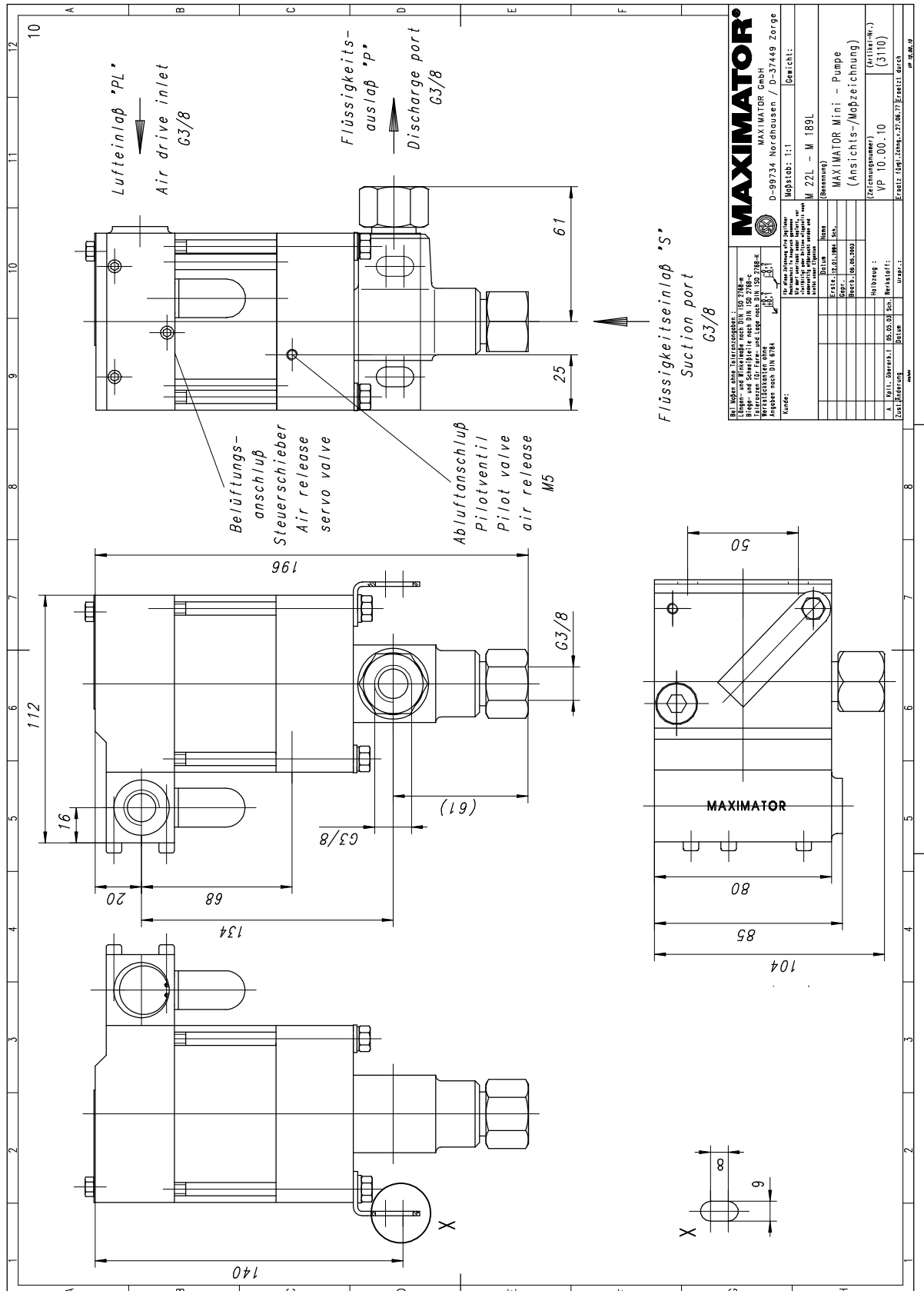
Pressure and flow performances, please see enclosed graph.

Wetted materials of construction:	seal package:	M189(L): Polyurthane, Buna N M189(L)VE: UHMWPE, Viton
	Pump Body:	1.4305
	Piston	1.4112 (hardened)
	Fittings	1.4104
Approximate Dimensions:	Height:	195 mm
	Depth:	104 mm
	Width:	112 mm
Available Options:	Seal material for oil service (standard)	M189(L)
	Seal material for water service	M189(L)VE
	Side inlet	M189(L)S/ M189(L)VES
	Hand lever/ Spring return	M189-HL (only available with seal package Polyurethane, Buna N)
	External pilot port modification	M189(L)-DIR
	Special inlet and outlet ports, i.e. NPT	M189(L)-NPT M189(L)VE-NPT
	Special seal material to handle special fluids on request.	
Available Accessories		
Air control units for M series with filter pressure regulator, control pressure gauge and shut off valve:	M189(L) with C1	
To protect the pump against excessive outlet pressures or to limit the outlet pressure, a safety valve can be fitted to the air control unit in the air drive line:	M189(L) with C1/SVair (The required outlet pressure has to be indicated.)	

Please consult factory for more information.

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Standard pump comes with BSP ports and bottom inlet.



Leistungsdiagramm/Performance Graph M(O) 189

Prüfflüssigkeit/Test Liquid: Wasser-Öl-Emulsion/Water Oil Emulsion ca. 1 - 10 cst

