

Chemical Service – MSF and GSF series: Pressures to 1,450 bar (21,025 psi)

MSF pumps

single acting, single air drive head
and distance piece



Pressures to 1,450 bar (21,025 psi)

MSF and GSF series pumps are rugged and designed for chemical service applications. These pumps are available as single acting types with single air drive head and distance piece.

- For air drive pressures from 1 bar (14.5 psi) minimum to 10 bar (145 psi) maximum MSF and GSF pumps have stainless steel bodies and plungers.
- MSF and GSF pumps have PTFE seals with Viton O-rings.
- Pumps come standard with **bottom inlet**.

Technical Data

Type	Pressure ratio **	Displ. Volume *		Outlet ***		Flow ****	Connections		Weight kg
		cm ³	cu.inch	bar	psi		Inlet A	Outlet B	
MSF4	1:4	30.5	1.86	40	580	14.81	1 BSP	1/2 BSP	6.7
MSF8	1:9	14.7	0.90	90	1305	7.07	3/4 BSP	1/2 BSP	6.7
MSF12	1:14	9.4	0.57	140	2030	4.55	3/4 BSP	1/2 BSP	6.7
MSF22	1:28	4.6	0.28	280	4060	2.22	3/8 BSP	3/8BSP	3.5
MSF37	1:46	2.8	0.17	460	6670	1.36	3/8 BSP	3/8 BSP	3.5
MSF72	1:86	1.5	0.09	860	12470	0.48	3/8 BSP	3/8 BSP	3.5
MSF111	1:130	1.0	0.06	1000	14500	0.28	3/8 BSP	3/8 BSP	3.5

GSF pumps

single acting, single air drive head
and distance piece



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Technical Data

Type	Pressure ratio **	Displ. Volume *		Outlet ***		Flow ****	Connections		Weight kg
		cm ³	cu.inch	bar	psi		Inlet A	Outlet B	
GSF10	1:11	90.0	5.49	110	1595	18.53	1 BSP	3/3 BSP	20.0
GSF15	1:16	62.0	3.78	160	2320	12.86	1 BSP	3/4 BSP	20.0
GSF25	1:28	35.3	2.15	280	4060	7.24	3/4 BSP	3/4 BSP	19.0
GSF35	1:40	24.5	1.49	400	5800	5.02	3/4 BSP	3/4 BSP	19.0
GSF60	1:63	15.7	0.96	630	9135	3.21	3/4 BSP	1/2 BSP	18.0
GSF100	1:113	8.8	0.54	1050	15225	1.81	3/4 BSP	1/2 BSP	18.0
GSF150	1:151	6.6	0.40	1450	21025	1.36	3/4 BSP	1/2 BSP	18.0

See also flow charts at page 20 and 22

* Displacement volume per double stroke (calculated) • ** Ratio – driving surface / driven surface (calculated)

*** Static outlet pressure (calculated and maximum allowed) at an air drive pressure of 10 bar / 145 psi

**** Approximate flow at an air drive of 6 bar / 87 psi and an outlet pressure of 0 bar/psi.

The minimum air drive pressure to start the pump is 1 bar / 14.5 psi. • Depending on the pressure ratio a special outlet pressure can be reached.

Options for MSF and GSF series:

- Special seal material, i. e. PTFE compound, to handle special fluids:
- Side inlet:
- Special inlet and outlet ports (i. e. NPT):
- Air control unit for MSF / GSF series with filter pressure regulator, control pressure gauge and shut-off valve:
- To protect the pump against excessive outlet pressures, an air safety valve can be fitted to the air control unit

Other options available on request.

Order code:

See fluid compatibility guide, page 24

MSF37 / GSF35 – **§**

MSF37 / GSF35 – **NPT**

MSF37 **with C1** / GSF35 **with C2**

MSF37 **with C1/SVair** / GSF35 **with C2/SVair**

(The outlet pressure has to be indicated.)