

# Liquid Flow Rates

## Stainless Steel Filter Elements

### Liquid flow rates in Ltrs/hr at 0.15 Bar pressure drop

Flow rates will depend on which filter element grade is installed in the filter housing. First check the size of the filter element using the housing data sheets and then use the charts below to read the flow rate against the element grade. Replace the □ in the part number shown with the required grade, for example 12.57.S20V

The figures shown here are based on the viscosity of water and oil (32cSt). See note (4) for other liquids.

12.32.□	Flow Rates in Ltrs/hr 1/8" Port Sizes							
	S1	S2	S5	S10	S20	S40	S100	S200
Water	3.0	7.0	16	33	66	98	131	262
Oil (32 cSt)	0.1	0.2	0.6	1.2	2.4	3.5	4.7	9.4

12.57.□	Flow Rates in Ltrs/hr for 1/4" Port Sizes							
	S1	S2	S5	S10	S20	S40	S100	S200
Water	6	12	31	61	122	183	244	489
Oil (32 cSt)	0.2	0.4	1.1	2.2	4.4	6.6	8.8	17.5

25.64.□	Flow Rates in Ltrs/hr for 1/4" Port Sizes							
	S1	S2	S5	S10	S20	S40	S100	S200
Water	14	29	72	144	287	481	575	720 <sup>(5)</sup>
Oil (32 cSt)	0.5	1.0	2.6	5.2	10.3	15.5	20.6	25.8 <sup>(5)</sup>

25.178.□	Flow Rates in Ltrs/hr for 1/2" Port Sizes							
	S1	S2	S5	S10	S20	S40	S100	S200
Water	41	82	206	412	825	1080 <sup>(5)</sup>	1080 <sup>(5)</sup>	1080 <sup>(5)</sup>
Oil (32 cSt)	1.5	3.0	7.4	14.8	29.6	38.7 <sup>(5)</sup>	38.7 <sup>(5)</sup>	38.7 <sup>(5)</sup>

38.152.□	Flow Rates in Ltrs/hr for 3/4" Port Sizes							
	S1	S2	S5	S10	S20	S40	S100	S200
Water	53	107	267	534	1067	1601	2135	4269
Oil (32 cSt)	1.9	3.8	9.6	16.1	38.2	57.4	76.5	153.0

51.230.□	Flow Rates in Ltrs/hr for 1" Port Sizes							
	S1	S2	S5	S10	S20	S40	S100	S200
Water	109	218	546	1091	2182	3273	4364	6840 <sup>(5)</sup>
Oil (32 cSt)	3.9	7.8	19.6	39.1	78.2	117.3	156.4	245.1 <sup>(5)</sup>

51.476.□	Flow Rates in Ltrs/hr for 2" Port Sizes							
	S1	S2	S5	S10	S20	S40	S100	S200
Water	227	455	1137	2274	4547	6821	9094	18188
Oil (32 cSt)	8.1	16.3	40.7	81.5	163.0	224.4	325.9	651.8

- Notes**
- (1) The above flow rates are for water and oil at 20°C. Flow rates for other liquids can be derived from relative viscosity data.
  - (2) Flow rates are generally proportional to pressure drop. If an initial drop of 0.2 bar can be tolerated flow rates can be doubled.
  - (3) Flow rates are generally inversely proportional to liquid viscosity.
  - (4) Water = 1 centipoise, for higher viscosity liquids divide the flow rates by the actual viscosity in centipoise.
  - (5) Flow rate limited by the port dimensions. Please contact us to discuss larger port options..