SRK-COMBO

Return & Suction Filters
Low Pressure Filter – In-Tank
up to 10 bar



Technical Data

- Operating pressure up to 1000 kPa (10 bar).
- Static pressure testing up to 1500 kPa (15 bar).
- Back pressure valve setting: 0,5 bar per ISO 3968.
- By-pass valve setting: 2,5 bar per ISO 3968.
- Operating temperature -20 +120°C.
- Compatibility with hydraulic fluids per ISO 2943.
- Flow rate and pressure drop determined per ISO 3968 with oil kinematic viscosity 30 cSt at 40°C and density 0,875kg/dm³.

Filter Elements Main

- Synthetic media.
- Filtration efficiency according to ISO 16889: $ß_{11µm(c)}$=200, $ß_{13µm(c)}$=1000.
- Unique interface with filter assembly.
- By-pass strainer integrated into the main element 125 micron wire mesh.
- Collapse resistance 1000 kPA (10 bar) per ISO 2941.
- Replacement element includes spring and O-ring seal.

Filter Elements Emergency Suction

- Emergency filtered suction from the tank (125 µm).
- By-pass filtered and pressurized.

Components

				Main Element		Suction Element	
				Synthetic Media		Wire Mesh	
				$ß_{13µm(c)} \geq 1000$		125 µm	
Family	Style 1	Style 2	Style 3	RMF		RMF	
COMBO 120	with Emergency suction	Ports on same axis**		120	P763652	60	P763643
		Ports on same side					
	without Emergency suction*	Ports on same axis**		120	P762421	-	Not applicable
		Ports on same side					
COMBO 200	with Emergency suction	Without extra inlet	no predrilled holes	200	P764198	70	P764183
			predrilled holes a1				
			predrilled holes a2				
			predrilled holes b				
		With extra inlet G1	no predrilled holes				
			predrilled holes a1				
			predrilled holes a2				
			predrilled holes b				
	without Emergency suction*	Without extra inlet	no predrilled holes	200	P764198	-	Not applicable
			predrilled holes a1				
			predrilled holes a2				
			predrilled holes b				
		With extra inlet G1	no predrilled holes				
			predrilled holes a1				
			predrilled holes a2				
			predrilled holes b				
COMBO 300	with Emergency suction	Without extra inlet	no predrilled holes	300	P765457	70	P764183
			predrilled holes a1				
			predrilled holes a2				
			predrilled holes b				
		With extra inlet G1	no predrilled holes				
			predrilled holes a1				
			predrilled holes a2				
			predrilled holes b				
	without Emergency suction*	Without extra inlet	no predrilled holes	300	P765457	-	Not applicable
			predrilled holes a1				
			predrilled holes a2				
			predrilled holes b				
		With extra inlet G1	no predrilled holes				
			predrilled holes a1				
			predrilled holes a2				
			predrilled holes b				

* use the option of no emergency suction only if the returning flow rate is always bigger than the suction flow rate
** Additional inlet port G3/8 available on request
NA = Not Applicable
BPV= Bypass Valve Setting

Complete Filters (including Elements)	HOUSING DIMENSIONS																CARTRIDGE DIMENSIONS			POSSIBLE INDICATORS
	A1	A2	B	C	D	E	F	G	H	I	J	K	L	BPV	Back Pressure Valve	M	N	X	Y	Z	
			mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	bar	bar	predilled holes	plugged or indicator	mm	mm	mm	
K041511	G1	G3/4	80	308	414	11	115	11	68	68	32	32	72	2,5	0,5	9/16-18 UNF	P165194	91	265	45	P165194, P167455, P173893
K041595	G1	G3/4	80	308	414	11	115	11	90	69	30,3	42,3	72	2,5	0,5	9/16-18 UNF	P165194				P165194, P167455, P173893
K041301	G1	G3/4	80	227	333,5	11	115	11	68	68	32	32	NA	2,5	0,5	9/16-18 UNF	P165194	91	233	36	P165194, P167455, P173893
K041610	G1	G3/4	80	227	333,5	11	115	11	90	69	30,3	42,3	NA	2,5	0,5	9/16-18 UNF	P165194				P165194, P167455, P173893
K041535	G1 1/4	2x G1	100	375	505	11	81/94	13	94,5	86	35	63	50	2,5	0,5	NA	NA				none
K041598	G1 1/4	2x G1	100	375	505	11	81/94	13	94,5	86	35	63	50	2,5	0,5	G1/8	YES				P764431,P764613,P764612
K041602	G1 1/4	2x G1	100	375	505	11	81/94	13	94,5	86	35	63	50	2,5	0,5	G1/8	YES				P764431,P764613,P764612
K041606	G1 1/4	2x G1	100	375	505	11	81/94	13	94,5	86	35	63	50	2,5	0,5	G1/8	YES				P171954
K041596	G1 1/4 + G1	2x G1	100	375	505	11	81/94	13	94,5 / 85,5	86	35	63	50	2,5	0,5	NA	NA				none
K041599	G1 1/4 + G1	2x G1	100	375	505	11	81/94	13	94,5 / 85,5	86	35	63	50	2,5	0,5	G1/8	YES				P764431,P764613,P764612
K041603	G1 1/4 + G1	2x G1	100	375	505	11	81/94	13	94,5 / 85,5	86	35	63	50	2,5	0,5	G1/8	YES				P764431,P764613,P764612
K041607	G1 1/4 + G1	2x G1	100	375	505	11	81/94	13	94,5 / 85,5	86	35	63	50	2,5	0,5	G1/8	YES				P171954
K041528	G1 1/4	2x G1	100	375	505	11	81/94	13	94,5	86	35	63	NA	2,5	0,5	NA	NA	88	361	42	none
K041600	G1 1/4	2x G1	100	375	505	11	81/94	13	94,5	86	35	63	NA	2,5	0,5	G1/8	YES				P764431,P764613,P764612
K041604	G1 1/4	2x G1	100	375	505	11	81/94	13	94,5	86	35	63	NA	2,5	0,5	G1/8	YES				P764431,P764613,P764612
K041608	G1 1/4	2x G1	100	375	505	11	81/94	13	94,5	86	35	63	NA	2,5	0,5	G1/8	YES				P171954
K041597	G1 1/4 + G1	2x G1	100	375	505	11	81/94	13	94,5 / 85,5	86	35	63	NA	2,5	0,5	NA	NA				none
K041601	G1 1/4 + G1	2x G1	100	375	505	11	81/94	13	94,5 / 85,5	86	35	63	NA	2,5	0,5	G1/8	YES				P764431,P764613,P764612
K041605	G1 1/4 + G1	2x G1	100	375	505	11	81/94	13	94,5 / 85,5	86	35	63	NA	2,5	0,5	G1/8	YES				P764431,P764613,P764612
K041609	G1 1/4 + G1	2x G1	100	375	505	11	81/94	13	94,5 / 85,5	86	35	63	NA	2,5	0,5	G1/8	YES				P171954
K041674	G1 1/4	2x G1	100	445	575	11	81/94	13	94,5	86	35	63	50	2,5	0,5	NA	NA				none
K041659	G1 1/4	2x G1	100	445	575	11	81/94	13	94,5	86	35	63	50	2,5	0,5	G1/8	YES				P764431,P764613,P764612
K041660	G1 1/4	2x G1	100	445	575	11	81/94	13	94,5	86	35	63	50	2,5	0,5	G1/8	YES				P764431,P764613,P764612
K041661	G1 1/4	2x G1	100	445	575	11	81/94	13	94,5	86	35	63	50	2,5	0,5	G1/8	YES				P171954
K041662	G1 1/4 + G1	2x G1	100	445	575	11	81/94	13	94,5 / 85,5	86	35	63	50	2,5	0,5	NA	NA				none
K041663	G1 1/4 + G1	2x G1	100	445	575	11	81/94	13	94,5 / 85,5	86	35	63	50	2,5	0,5	G1/8	YES				P764431,P764613,P764612
K041664	G1 1/4 + G1	2x G1	100	445	575	11	81/94	13	94,5 / 85,5	86	35	63	50	2,5	0,5	G1/8	YES				P764431,P764613,P764612
K041665	G1 1/4 + G1	2x G1	100	445	575	11	81/94	13	94,5 / 85,5	86	35	63	50	2,5	0,5	G1/8	YES				P171954
K041666	G1 1/4	2x G1	100	445	575	11	81/94	13	94,5	86	35	63	NA	2,5	0,5	NA	NA	88	431	42	none
K041667	G1 1/4	2x G1	100	445	575	11	81/94	13	94,5	86	35	63	NA	2,5	0,5	G1/8	YES				P764431,P764613,P764612
K041668	G1 1/4	2x G1	100	445	575	11	81/94	13	94,5	86	35	63	NA	2,5	0,5	G1/8	YES				P764431,P764613,P764612
K041669	G1 1/4	2x G1	100	445	575	11	81/94	13	94,5	86	35	63	NA	2,5	0,5	G1/8	YES				P171954
K041670	G1 1/4 + G1	2x G1	100	445	575	11	81/94	13	94,5 / 85,5	86	35	63	NA	2,5	0,5	NA	NA				none
K041671	G1 1/4 + G1	2x G1	100	445	575	11	81/94	13	94,5 / 85,5	86	35	63	NA	2,5	0,5	G1/8	YES				P764431,P764613,P764612
K041672	G1 1/4 + G1	2x G1	100	445	575	11	81/94	13	94,5 / 85,5	86	35	63	NA	2,5	0,5	G1/8	YES				P764431,P764613,P764612
K041673	G1 1/4 + G1	2x G1	100	445	575	11	81/94	13	94,5 / 85,5	86	35	63	NA	2,5	0,5	G1/8	YES				P171954

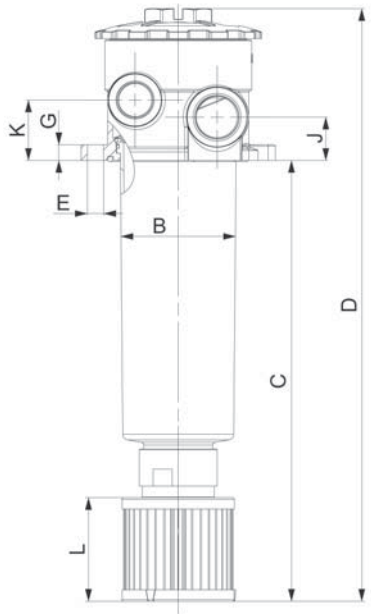
Stock item (check e-commerce for availability)

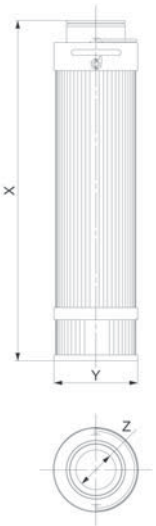
Indicator Choices

Part	Kind		Reference Drawing	Setting (bar)	Contact	Protection Class	Cable Clamp	Max. Values
P171954	Visual	Vacuum	G	-1/3				
P764612	Visual	Differential	F	2,5				max 30 DCV; 0,5 A res. and 0,2 A ind.
P764431	Electrical	Differential	C	2,5	Normally Open	IP65	PG7	max 30 DCV; 0,5 A res. and 0,2 A ind.
P764613	Electrical	Differential	C	2,5	Normally Closed	IP65	PG7	max 30 DCV; 0,5 A res. and 0,2 A ind.
P165194	Electrical	Differential	B	2,76	Normally Open			30 V DC; 0,2A
P167580	Visual	Differential	D	3,4				

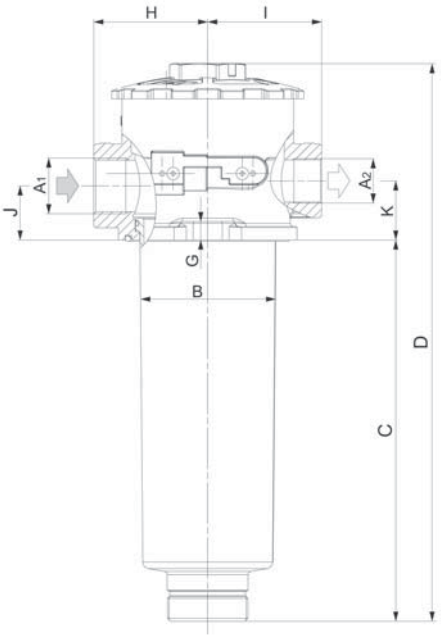
Combo 120

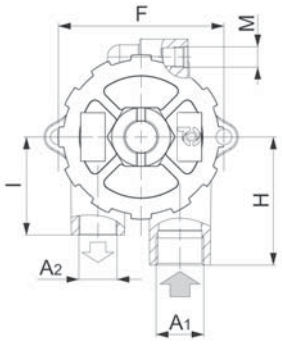
Ports on same Side

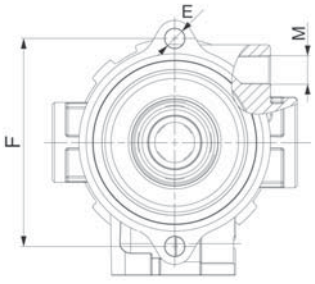




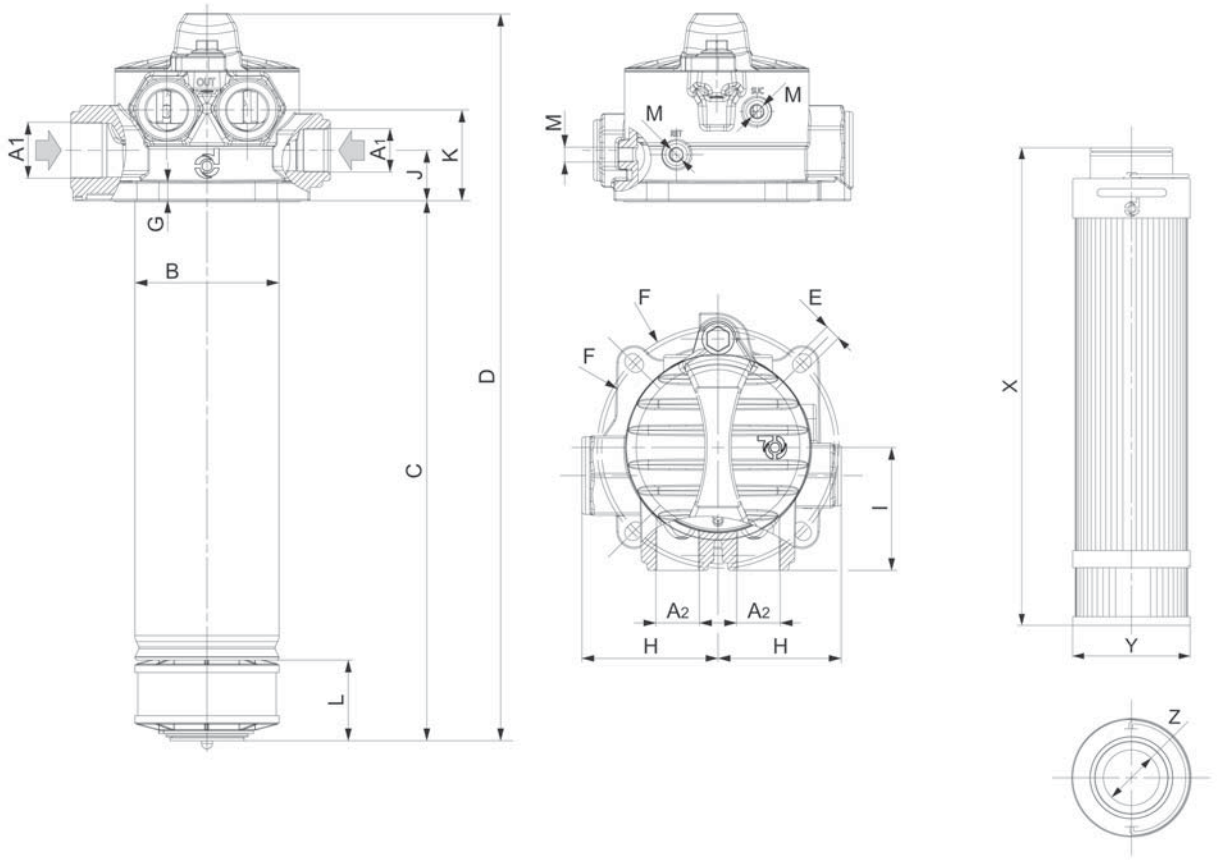
Ports on same Axis







Combo 200/300



Additions

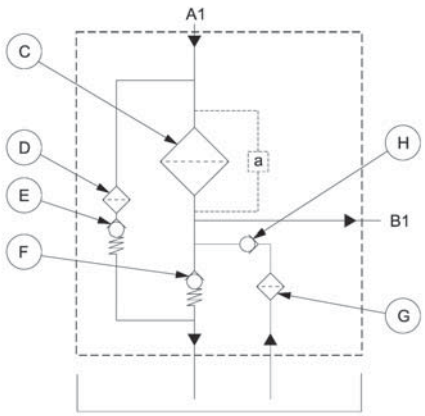
Additional Indicator for SRK 120 (if mounting holes are predrilled) - only on request
P167580

Additional extension tube for SRK 120 - only on request
Extends lenght of SRK with 178 mm
P763642

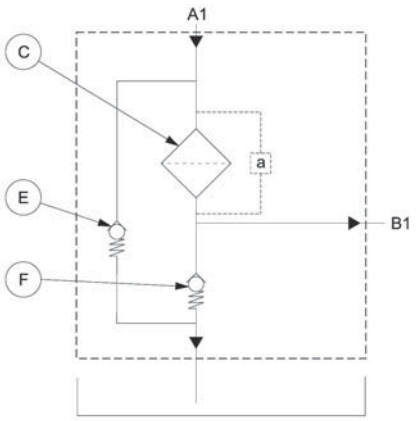
Hydraulic Filter Schematics

Combo 120

With Emergency Suction

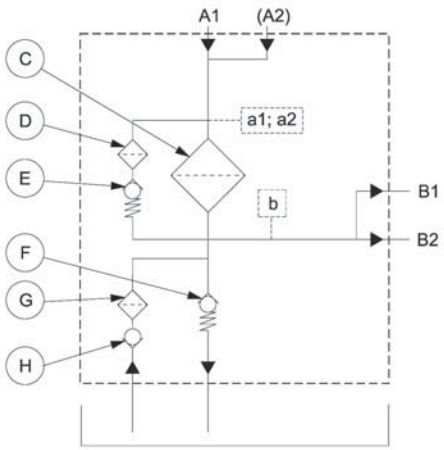


Without Emergency Suction

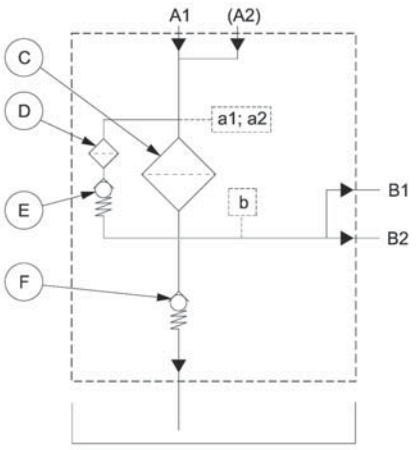


Combo 200/300

With Emergency Suction



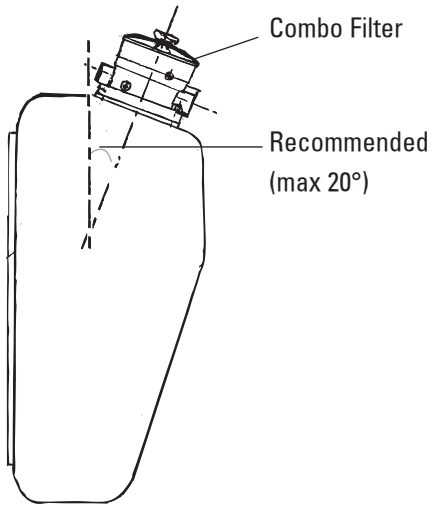
Without Emergency Suction



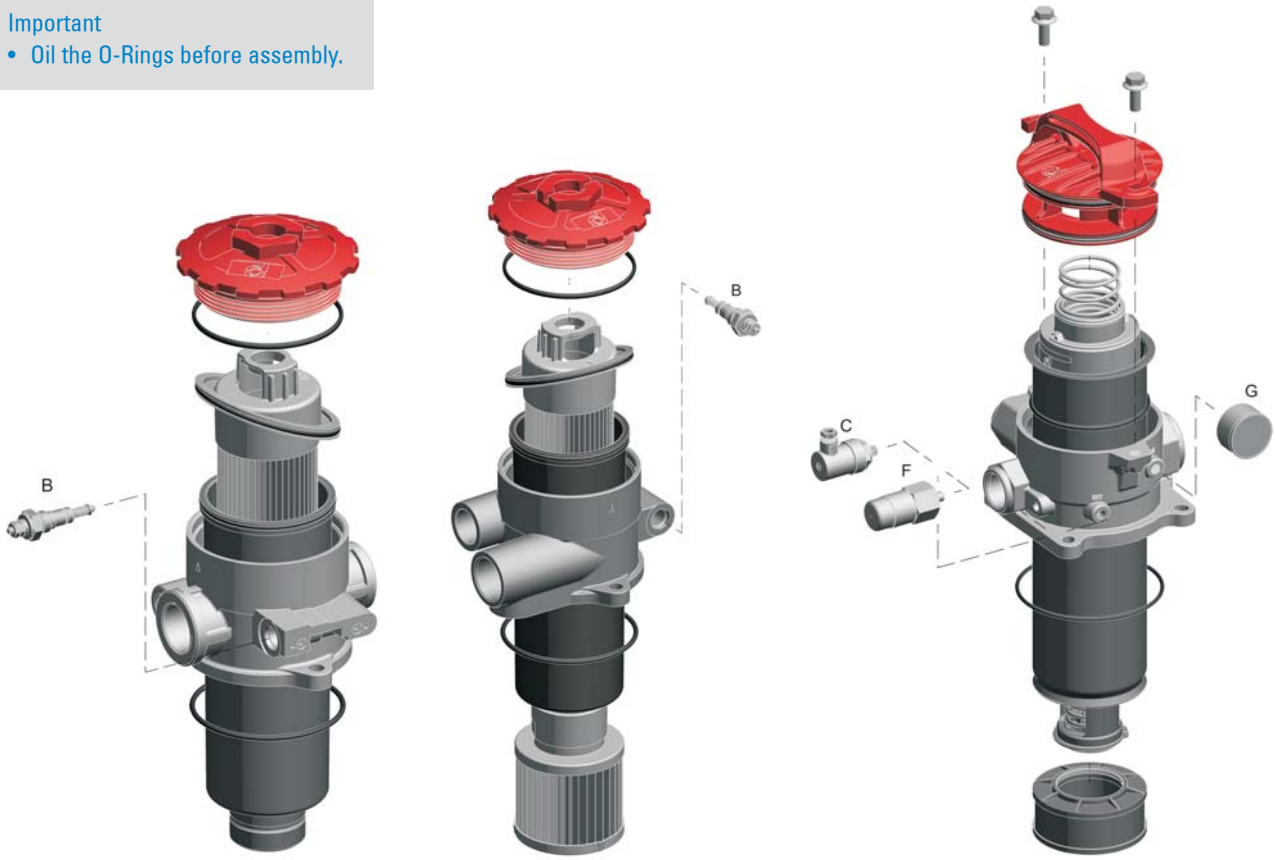
A1 - A2:	from hydraulic users
B1 - B2:	to boost pump
a, a1, a2, b:	pressure indicator ports
C:	main cartridge
D:	by-pass strainer
E:	by-pass valve
F:	back pressure valve
G:	suction strainer
H:	suction valve

Installation & Service Guidelines

- Minimum oil level in the tank must be sufficient to cover completely the emergency suction cartridge or the housing end.
- Extension kit (X770576) is optional for Combo 120 (+178mm).
- Important for the Combo without emergency Suction.
  The suction port always gets clean oil. When the element becomes clogged, oil that reaches the suction port is gradually reduced, so the use of an electrical clogging indicator (P165194) is recommended. Return flow must always be higher than suction flow.
- Maximum slope on the installation: 20°.

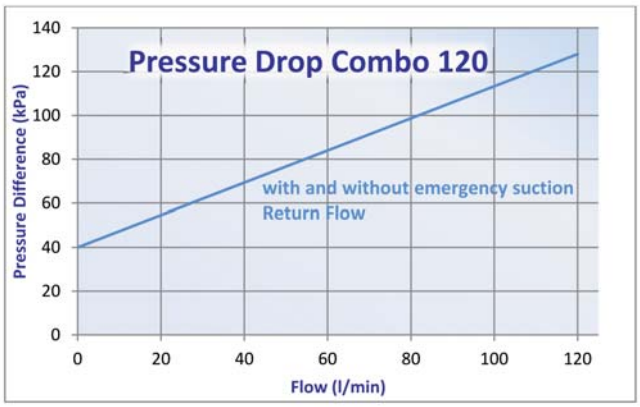


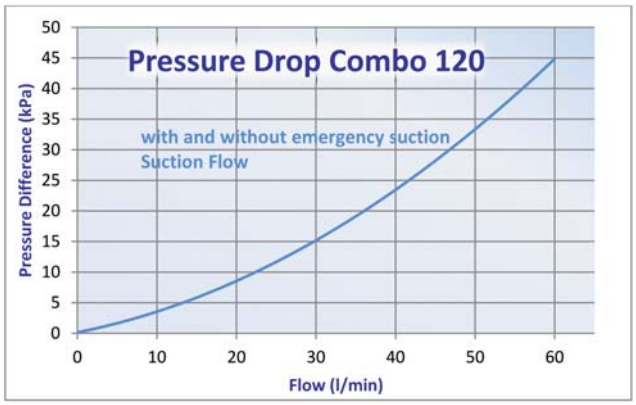
Important
- Oil the O-Rings before assembly.



Performance Curves

Ports on same Axis





Ports on same Side

