

FLOWFIT® Technical Data

500 Series Standard Hydraulic Cylinders



CHARACTERISTICS

- Maximum working pressure: 200 bar
- Maximum testing pressure: 300 bar
- Maximum working speed: 0.5 m/s
- Working temperature: -30 °C to +90 °C
- Oil: mineral hydraulic

MATERIALS

- Rod: chrome plated steel F-1140, minimum chrome layer thickness 20 micron, roughness Ra < 0,2, minimum surface hardness 900 HV, corrosion resistance minimum 200 hours in neutral saline fog according to ISO9227 rating 9
- Tube: steel ST-52-3, DIN 2393, inside diameter tolerance ISO H9, roughness Ra <0,8 micron.
- Guide-bushing: steel F-1140 nitrated (nitride hardening)
- Piston: steel F-1140

SEALS

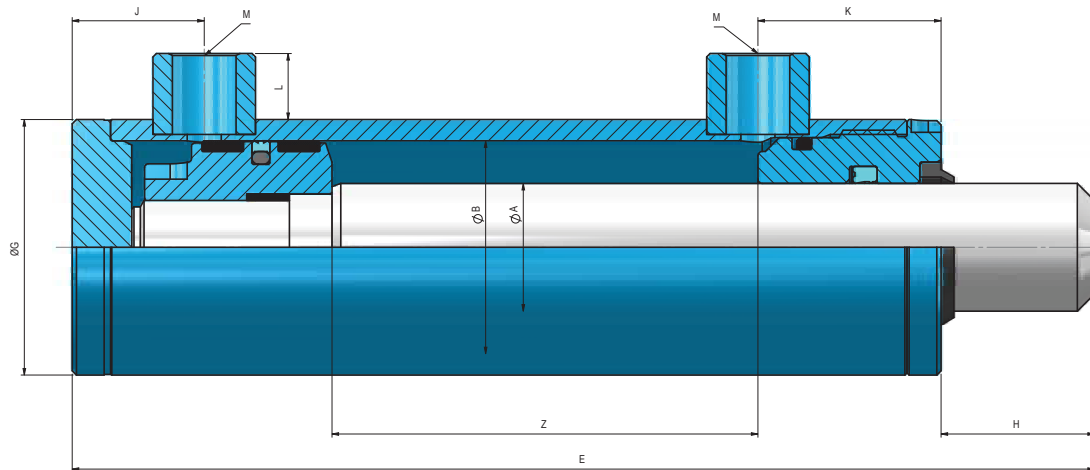
- Guide-bushing:
 - Dynamic: compact polyurethane rod-seal, double lip. NBR metal wiper seal
 - Static: NBR 90 shore o-ring
- Piston:
 - Dynamic: compact double-acting polyurethane seal, plus nitrile o-ring as activator
Special polyacetal guides reinforced with glass fibre.
 - Static: polyamide locking sealing guide

FINISHING

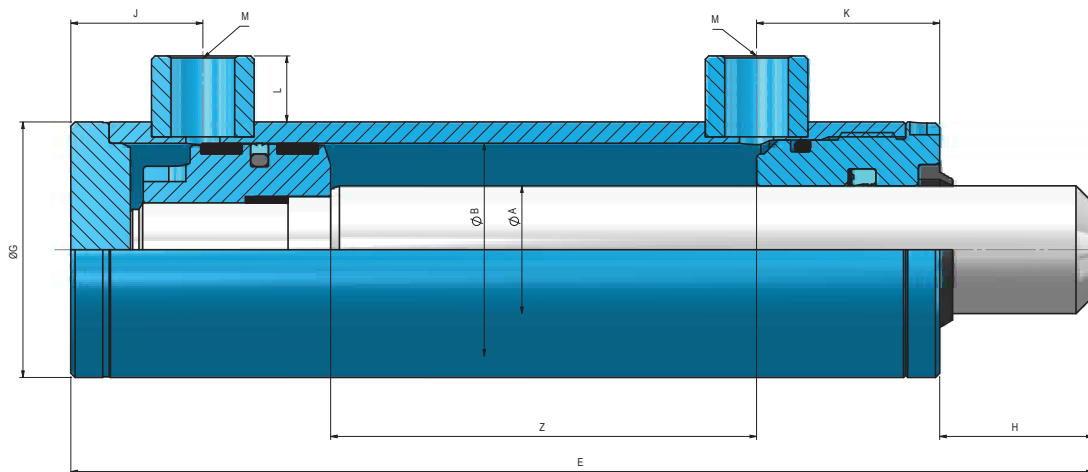
Black prime painting

RECOMMENDATIONS

- Protect the cylinder circuit with a relief valve set at 200 bar
- Check the oil cleanness (pollution), and prevent it from having strange objects (place a filter on the cylinder circuit)
- Bleed the circuit by slightly loosening the cylinder fittings before starting-up
- Do not weld on the cylinder tube
- Before welding on the rod or on the bottom, please dismount the cylinder. - In case you need to store the cylinders for a long period of time, please avoid outdoor storage. If not possible, the rod must be completely retracted or it must be greased instead
- For high-pressure cleaning or blasting on the cylinder, the rod and the oil-ports must be suitably protected.
- For double-acting cylinders working as single acting, we recommend to connect the non-used oil-port to tank
- In case you need to dismount the cylinder, please note that the piston is screwed onto the rod end and fixed with industrial glue, so you must use also industrial glue when mounting again



REF.	ROD ØA	PISTON ØB	STROKE Z	E	ØG	H	J	K	L	M	P	VOL (L)	SEALS JOINTS	WEIGHT (kg)
52032/100	20	32	100	230	40	23	25	35	12	1/4"	3	0,08	J70N	1,6
52032/200	20	32	200	330	40	23	25	35	12	1/4"	3	0,16	J70N	2,2
52032/250	20	32	250	380	40	23	25	35	12	1/4"	3	0,20	J70N	2,5
52032/300	20	32	300	430	40	23	25	35	12	1/4"	3	0,24	J70N	2,8
52032/400	20	32	400	530	40	23	25	35	12	1/4"	3	0,32	J70N	3,4
52032/500	20	32	500	630	40	23	25	35	12	1/4"	3	0,40	J70N	4,0
52540/200	25	40	200	330	50	33	29	40	16	3/8"	4	0,25	J71N	3,4
52540/250	25	40	250	380	50	33	29	40	16	3/8"	4	0,31	J71N	3,8
52540/300	25	40	300	430	50	33	29	40	16	3/8"	4	0,38	J71N	4,3
52540/400	25	40	400	530	50	33	29	40	16	3/8"	4	0,50	J71N	5,2
52540/500	25	40	500	630	50	33	29	40	16	3/8"	4	0,63	J71N	6,2
52540/600	25	40	600	730	50	33	29	40	16	3/8"	4	0,75	J71N	7,1
52540/700	25	40	700	830	50	33	29	40	16	3/8"	4	0,88	J71N	8,1
52540/1000	25	40	1000	1130	50	33	29	40	16	3/8"	4	1,26	J71N	10,9
53050/150	30	50	150	290	60	36	31	43	16	3/8"	4	0,29	J72N	4,2
53050/200	30	50	200	340	60	36	31	43	16	3/8"	4	0,39	J72N	4,8
53050/250	30	50	250	390	60	36	31	43	16	3/8"	4	0,49	J72N	5,4
53050/300	30	50	300	440	60	36	31	43	16	3/8"	4	0,59	J72N	6,0
53050/350	30	50	350	490	60	36	31	43	16	3/8"	4	0,69	J72N	6,6
53050/400	30	50	400	540	60	36	31	43	16	3/8"	4	0,79	J72N	7,3
53050/500	30	50	500	640	60	36	31	43	16	3/8"	4	0,98	J72N	8,5
53050/600	30	50	600	740	60	36	31	43	16	3/8"	4	1,18	J72N	9,7
53050/700	30	50	700	840	60	36	31	43	16	3/8"	4	1,37	J72N	10,9
53050/900	30	50	900	1040	60	36	31	43	16	3/8"	4	1,77	J72N	13,4
53050/1000	30	50	1000	1140	60	36	31	43	16	3/8"	4	1,96	J72N	14,6
53060/200	30	60	200	360	70	54	31	45	16	3/8"	4	0,57	J73N	5,9
53060/300	30	60	300	460	70	54	31	45	16	3/8"	4	0,85	J73N	7,3
53060/400	30	60	400	560	70	54	31	45	16	3/8"	4	1,13	J73N	8,6
53060/500	30	60	500	660	70	54	31	45	16	3/8"	4	1,41	J73N	10,0
53060/600	30	60	600	760	70	54	31	45	16	3/8"	4	1,70	J73N	11,3



SERIES 500

REF.	ROD ØA	PISTON ØB	STROKE Z	E	ØG	H	J	K	L	M	P	VOL (L)	SEALS JOINTS	WEIGHT (kg)
53060/700	30	60	700	860	70	54	31	45	16	3/8"	4	1,98	J73N	12,7
53560/150	35	60	150	310	70	54	31	45	16	3/8"	4	0,42	J3560N	5,6
53560/200	35	60	200	360	70	54	31	45	16	3/8"	4	0,57	J3560N	6,4
53560/250	35	60	250	410	70	54	31	45	16	3/8"	4	0,71	J3560N	7,2
53560/350	35	60	350	510	70	54	31	45	16	3/8"	4	0,99	J3560N	8,7
53560/400	35	60	400	560	70	54	31	45	16	3/8"	4	1,13	J3560N	9,5
53560/500	35	60	500	660	70	54	31	45	16	3/8"	4	1,41	J3560N	11,1
54070/150	40	70	150	310	80	46	33	49	16	3/8"	5	0,58	J74N	7,4
54070/200	40	70	200	360	80	46	33	49	16	3/8"	5	0,77	J74N	8,4
54070/250	40	70	250	410	80	46	33	49	16	3/8"	5	0,96	J74N	9,3
54070/300	40	70	300	460	80	46	33	49	16	3/8"	5	1,15	J74N	10,3
54070/400	40	70	400	560	80	46	33	49	16	3/8"	5	1,54	J74N	12,2
54070/500	40	70	500	660	80	46	33	49	16	3/8"	5	1,92	J74N	14,1
54070/600	40	70	600	760	80	46	33	49	16	3/8"	5	2,31	J74N	16,0
54070/700	40	70	700	860	80	46	33	49	16	3/8"	5	2,69	J74N	17,9
54080/200	40	80	200	375	90	49	33	54	16	3/8"	5	1,01	J75N	10,3
54080/300	40	80	300	475	90	49	33	54	16	3/8"	5	1,51	J75N	12,3
54080/400	40	80	400	575	90	49	33	54	16	3/8"	5	2,01	J75N	14,3
54080/500	40	80	500	675	90	49	33	54	16	3/8"	5	2,51	J75N	16,4
54080/600	40	80	600	775	90	49	33	54	16	3/8"	5	3,02	J75N	18,4
54080/700	40	80	700	875	90	49	33	54	16	3/8"	5	3,52	J75N	20,4
55080/500	50	80	500	675	90	49	33	54	16	3/8"	5	2,51	J5080N	19,4
55080/600	50	80	600	775	90	49	33	54	16	3/8"	5	3,02	J5080N	31,9
55090/200	50	90	200	390	105	52	35	60	16	3/8"	6	1,27	J5090N	16,1
55090/300	50	90	300	490	105	52	35	60	16	3/8"	6	1,90	J5090N	19,4
55090/400	50	90	400	590	105	52	35	60	16	3/8"	6	2,55	J5090N	22,8
55090/500	50	90	500	690	105	52	35	60	16	3/8"	6	3,18	J5090N	26,1
55090/600	50	90	600	790	105	52	35	60	16	3/8"	6	3,82	J5090N	29,4
55090/700	50	90	700	890	105	52	35	60	16	3/8"	6	4,45	J5090N	32,8
550100/300	50	100	300	490	115	52	35	60	16	3/8"	6	2,36	J76N	21,7
550100/400	50	100	400	590	115	52	35	60	16	3/8"	6	3,14	J76N	25,2
550100/500	50	100	500	690	115	52	35	60	16	3/8"	6	3,93	J76N	28,7
550100/600	50	100	600	790	115	52	35	60	16	3/8"	6	4,71	J76N	32,2
550100/700	50	100	700	890	115	52	35	60	16	3/8"	6	5,50	J76N	35,7
570120/400	70	120	400	650	140	80	40	82	17	1/2"	6	4,52	J77N	45,8
570120/500	70	120	500	750	140	80	40	82	17	1/2"	6	5,65	J77N	52,0
570120/600	70	120	600	850	140	80	40	82	17	1/2"	6	6,78	J77N	58,2
570120/700	70	120	700	950	140	80	40	82	17	1/2"	6	7,91	J77N	64,4