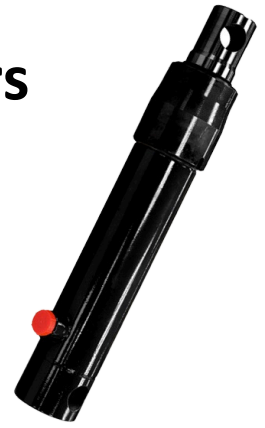


FLOWFIT® Technical Data 600 Series Standard Single Acting Hydraulic Cylinders



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

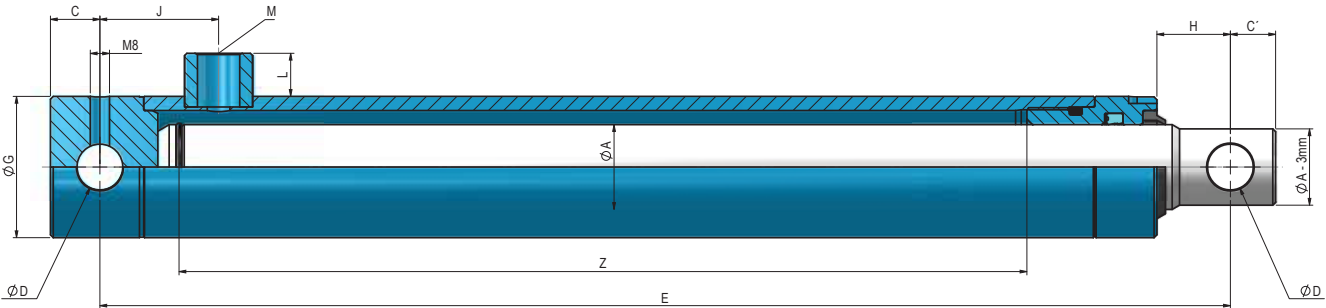
FINISHING

Black prime painting

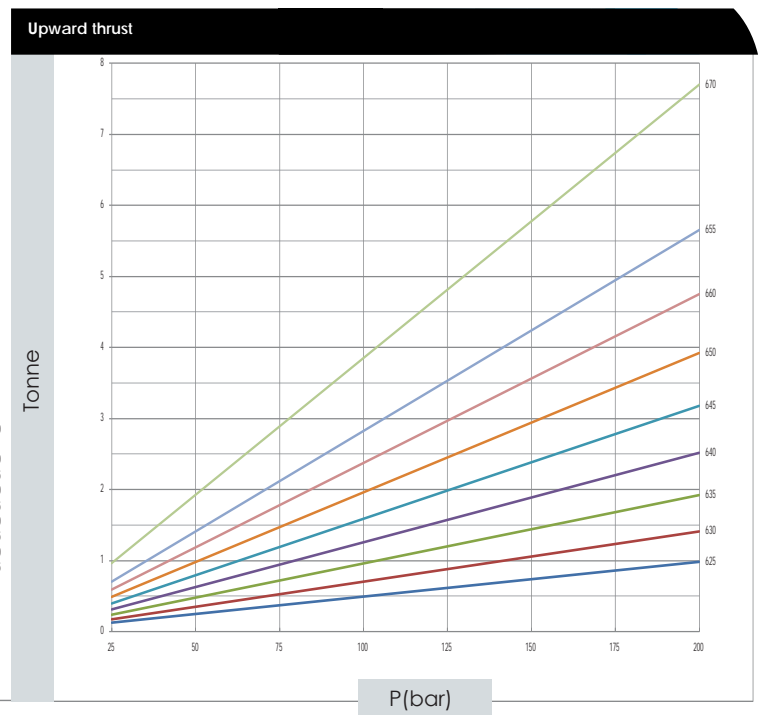
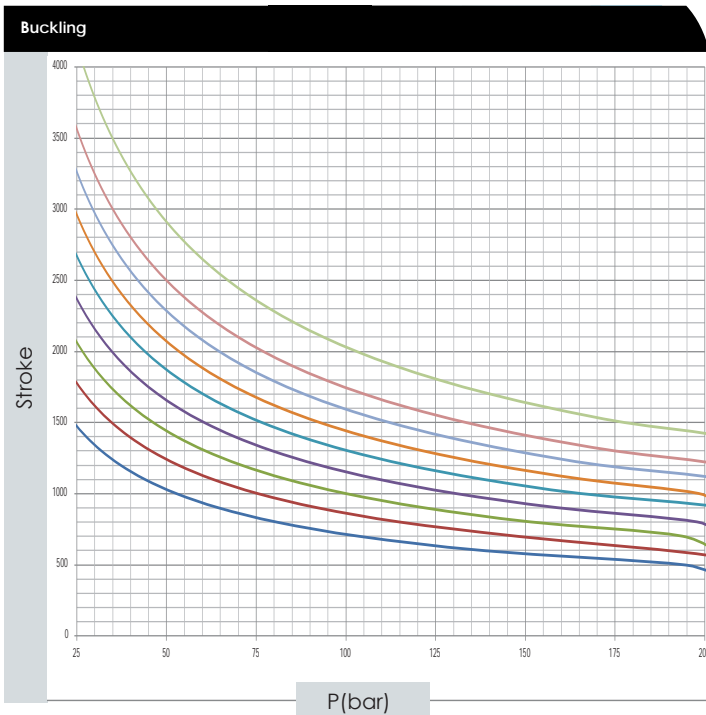
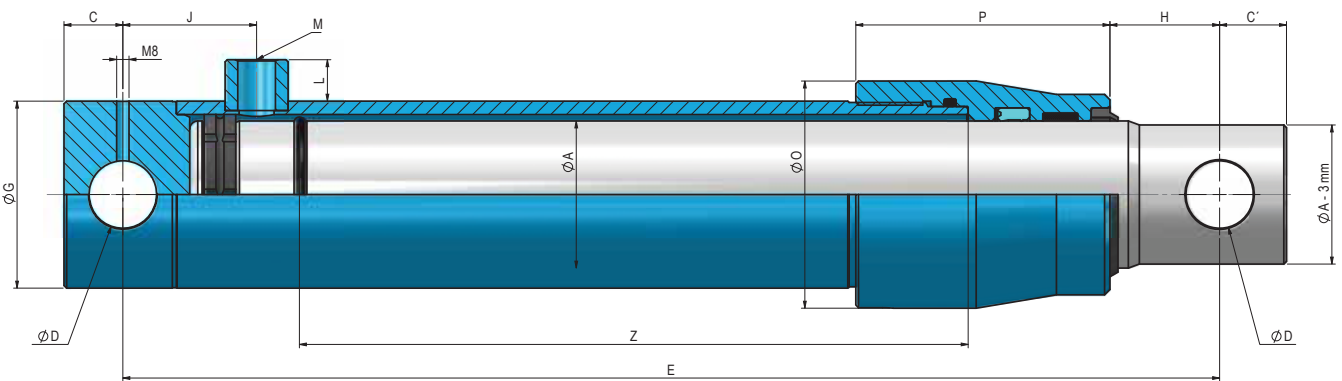
RECOMMENDATIONS

- 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

DESIGN FOR CYLINDERS ØA FROM 25 TO 40



DESIGN FOR CYLINDERS ØA FROM 45 TO 70



SERIES 600

REF.	ØA	STROKE	E	C	D	G	H	J	O	P	L	M BSP	VOL (L)	SEALS JOINTS	WEIGHT
		Z													(kg)
625/10	25	100	190	14	14,2	40	24	40			9,5	1/4	0,08	J625	1,5
625/20	25	200	290	14	14,2	40	24	40			9,5	1/4	0,16	J625	2,3
625/30	25	300	390	14	14,2	40	24	40			9,5	1/4	0,24	J625	3
630/2	30	200	300	17	16,2	50	26	42			15	3/8	0,25	J630	3,6
630/3	30	300	400	17	16,2	50	26	42			15	3/8	0,38	J630	4,7
630/4	30	400	500	17	16,2	50	26	42			15	3/8	0,5	J630	6
630/5	30	550	650	17	16,2	50	26	42			15	3/8	0,69	J630	7,6
630/7	30	700	800	17	16,2	50	26	42			15	3/8	0,88	J630	9,4
635/2	35	200	330	20	20,25	55	32	47			15	3/8	0,32	J635	4,7
635/3	35	300	430	20	20,25	55	32	47			15	3/8	0,48	J635	6,1
635/4	35	400	530	20	20,25	55	32	47			15	3/8	0,64	J635	7,5
635/5	35	550	680	20	20,25	55	32	47			15	3/8	0,87	J635	9,6
635/7	35	700	830	20	20,25	55	32	47			15	3/8	1,11	J635	11,7
640/2	40	200	330	22	23	60	32	47			15	3/8	0,39	J640	6
640/3	40	300	430	22	23	60	32	47			15	3/8	0,59	J640	7,6
640/4	40	400	530	22	23	60	32	47			15	3/8	0,79	J640	9,3
640/5	40	550	680	22	23	60	32	47			15	3/8	1,08	J640	11,7
640/7	40	700	830	22	23	60	32	47			15	3/8	1,37	J640	14,2
645/2	45	200	330	22	23	60	34	47	70	77	15	3/8	0,39	J645	7
645/3	45	300	430	22	23	60	34	47	70	77	15	3/8	0,59	J645	8,9
645/4	45	400	530	22	23	60	34	47	70	77	15	3/8	0,79	J645	10,9
645/5	45	550	680	22	23	60	34	47	70	77	15	3/8	1,08	J645	13,7
645/7	45	700	830	22	23	60	34	47	70	77	15	3/8	1,37	J645	16,7
650/2	50	200	360	25	25,25	65	49	50	75	80	15	3/8	0,48	J650	8,9
650/3	50	300	460	25	25,25	65	49	50	75	80	15	3/8	0,71	J650	11,2
650/4	50	400	560	25	25,25	65	49	50	75	80	15	3/8	0,95	J650	13,5
650/5	50	550	710	25	25,25	65	49	50	75	80	15	3/8	1,31	J650	16,8
650/7	50	700	860	25	25,25	65	49	50	75	80	15	3/8	1,66	J650	20,4
655/3	55	300	460	25	25,25	70	41	50	85	95	15	3/8	0,85	J655	13,6
655/5	55	550	710	25	25,25	70	41	50	85	95	15	3/8	1,56	J655	20,1
655/7	55	700	860	25	25,25	70	41	50	85	95	15	3/8	1,98	J655	24,2
660/2	60	200	360	25	25,25	75	36	50	90	95	15	3/8	0,66	J660	12,6
660/3	60	300	460	25	25,25	75	36	50	90	95	15	3/8	1	J660	15,7
660/4	60	400	560	25	25,25	75	36	50	90	95	15	3/8	1,33	J660	18,7
660/5	60	550	710	25	25,25	75	36	50	90	95	15	3/8	1,83	J660	23,3
660/7	60	700	860	25	25,25	75	36	50	90	95	15	3/8	2,32	J660	28,4
670/3	70	300	495	28	30,5	90	50	58	108	110	17	1/2	1,33	J670	25,1
670/4	70	400	595	28	30,5	90	50	58	108	110	17	1/2	1,77	J670	29,6
670/5	70	550	745	28	30,5	90	50	58	108	110	17	1/2	2,43	J670	36,5
670/7	70	700	895	28	30,5	90	50	58	108	110	17	1/2	3,09	J670	43,4