

FLOWFIT® Technical Data

Double Acting Micro 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

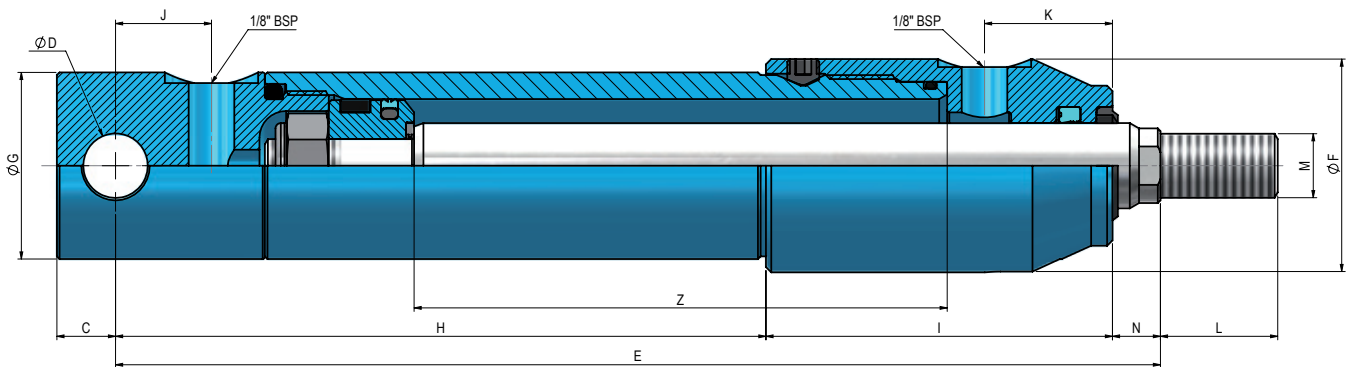
Black prime painting

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

DOUBLE ACTING MICRO CYLINDER

REF.	ØA	ØB	STROKE z	E	C	D	F	G	H	I	J	K	L	M	N	Vol. (cm ³)	WEIGHT (kg)
71220/25	12	20	25	118	9	10	35	28	47	60	15	23.5	18	M10	11	12	0.58
71220/50	12	20	50	143	9	10	35	28	72	60	15	23.5	18	M10	11	20	0.66
71220/80	12	20	80	173	9	10	35	28	102	60	15	23.5	18	M10	11	29	0.76
71625/50	16	25	50	146	11	12	40	35	72	65	18	25	22	M12	9	31	0.94
71625/100	16	25	100	196	11	12	40	35	122	65	18	25	22	M12	9	56	1.22
71625/150	16	25	150	246	11	12	40	35	172	65	18	25	22	M12	9	80	1.50
71625/200	16	25	200	296	11	12	40	35	222	65	18	25	22	M12	9	105	1.78



TECHNICAL DATA

- ▶ Zinc plated outside tube:
 - Zinc coating min. 20 µm
 - 150h of saline fog guaranteed
- ▶ Orientable inlet port next to rod.



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