

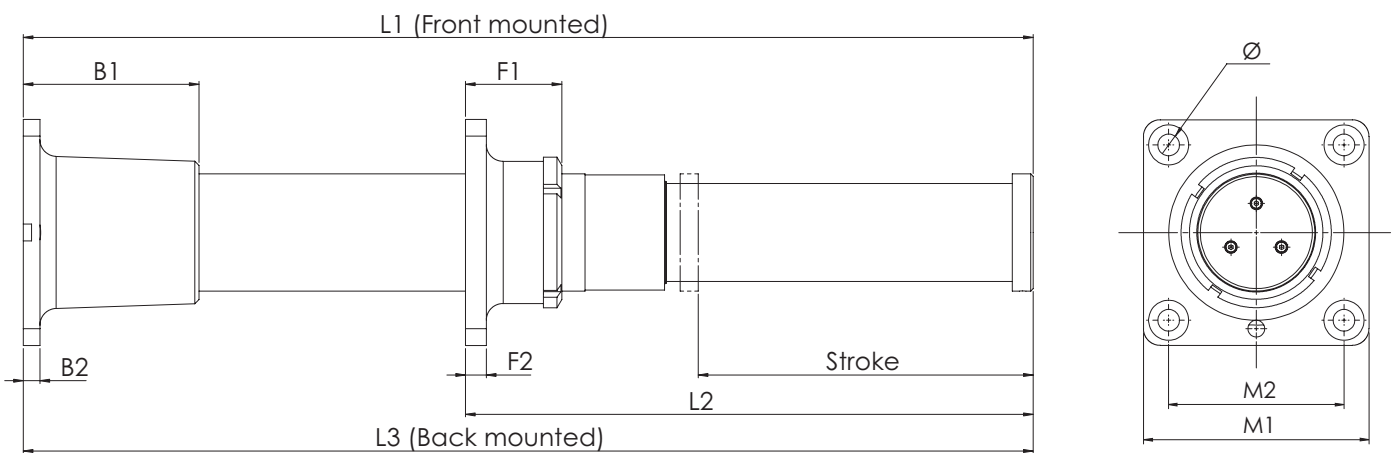
### HYBUFF G-90 – GAS HYDRAULIC ENERGY ABSORBERS WITH FRONT OR BACK MOUNTING

## HYBUFF

G-SERIES

The HYBUFF G-series is developed for applications where an energy stop device is needed. The robust design gives good stiffness, suitable for higher forces. The buffer has a cylinder with oil and hollow piston rod containing the reservoir. The hollow rod contains

a floating piston, separating oil and gas. The damping force is achieved by a flow restriction regulated by the metering pin. The metering pin at the centre of the buffer regulates the flow area to be more restricted when the damper is being compressed. We are used to demanding customers so our HYBUFF G-series is supplied with adapted corrosion protection, either for industrial or marine environment.



#### MOUNTING TYPE

DD Denomination	Stroke mm	Max Force kN	Dynamic Capacity kJ	Front Mounted L1 mm	L2 mm	BACK Ltot. L3 mm	Cyl Ø mm	Mounting plate mm	Head Diameter mm	Front mounted Weight kg	Back mounted Weight kg
G-90-100	100	500	40	460	270	470	110	270/210	140	33	40
G-90-200	200	500	80	767	470	777	110	270/210	140	41	48
G-90-250	250	500	100	862	528	872	110	270/210	140	43	50 x
G-90-300	300	500	120	1007	577	1017	110	270/210	140	49	54 x
G-90-400	400	500	160	1267	677	1277	110	270/210	140	53	60 x
G-90-500	500	500	200	1600	777	-	110	270/210	140	62	- x
G-90-600	600	500	240	1900	870	-	110	270/210	140	70	-
G-90-800	800	500	320	2400	1077	-	110	270/210	140	82	-

x = Suitable for Ship to Shore cranes

Front Mounted F1 mm	Front Mounted F2 mm	Back Mounted B1 mm	Back Mounted B2 mm	M1 mm	M2 mm	Ø mm
128	19	210	19	270	210	26

More specifications →

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Max ton	Metering Pin Denomination							
	100	200	250	300	400	500	600	800
3	91001	92001	92501	93001	94001	95001	96001	98001
6	91002	92002	92502	93002	94002	95002	96002	98002
10	91003	92003	92503	93003	94003	95003	96003	98003
15	91004	92004	92504	93004	94004	95004	96004	98004
25	91005	92005	92505	93005	94005	95005	96005	98005
40	91006	92006	92506	93006	94006	95006	96006	98006
50	91007	92007	92507	93007	94007	95007	96007	98007
60	91008	92008	92508	93008	94008	95008	96008	98008
70	91009	92009	92509	93009	94009	95009	96009	98009
80	91010	92010	92510	93010	94010	95010	96010	98010
100	91011	92011	92511	93011	94011	95011	96011	98011
150	91012	92012	92512	93012	94012	95012	96012	98012
200	91013	92013	92513	93013	94013	95013	96013	98013
250	91014	92014	92514	93014	94014	95014	96014	98014
350	91015	92015	92515	93015	94015	95015	96015	98015
500	91016	92016	92516	93016	94016	95016	96016	98016
700	91017	92017	92517	93017	94017	95017	96017	98017
1000	91018	92018	92518	93018	94018	95018	96018	98018
1500	91019	92019	92519	93019	94019	95019	96019	98019
2000	91020	92020	92520	93020	94020	95020	96020	98020

Metering Pin Denomination System Position		
1:st digit	G-Series. E.g. G-90	9
2:nd-3:rd	Stroke length. E.g. 100 mm	10
4:th-5:th	Reference No. In the mass table. E.g. 40 tonnes	06
= Gives Pin No. 91006		

Bellow & Safety chain/wire denomination system	
Buffer with bellow	B
Buffer with safety wire	K
Buffer with safety wire & bellow	BK

### STANDARD FOR HYBUFF G-SERIES:

- Paint, tested and passed 500 h NSS test (suitable for portside environment)
- Nickel plated
- End cap in stainless steel
- Temperature range -30°C to +70°C

### OPTIONAL FOR HYBUFF G-SERIES:

- Other stroke lengths upon request
- Buffers up to 1500 kN are available upon request
- Safety wire and bellows are optional
- Paint according to ISO EN 12944 C5M

### ORDERING EXAMPLE

Buffer G-90, stroke 100 mm, Front mounting, 25 tons metering pin, with bellow.

Type Number: G-90-100F/91005B

Buffer G-90, stroke 200 mm, Back mounting, 100 tons metering pin, with bellow & safety wire.

Type Number: G-90-200B/92011BK

We are certified according to ISO 9001, IRIS, ISO 14001 and welding certificate EN-15085.

(IRIS stands for International Railway Industry Standard. It is a globally recognized standard unique to the railway sector for the evaluation of management systems.)