

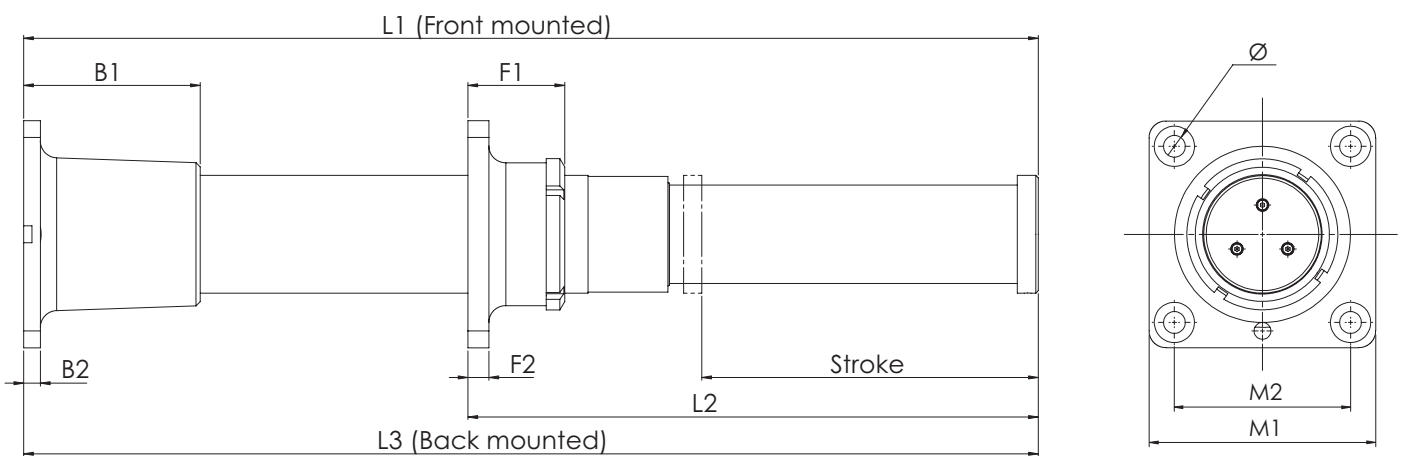
HYBUFF G-120 – GAS HYDRAULIC ENERGY ABSORBERS WITH FRONT OR BACK MOUNTING

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 Mounting Weight kg	Back Mounting Weight kg
G-120-200	200	700	112	738	470	748	140	270/210	140/200*	60	63
G-120-300	300	700	168	1096	578	1116	140	270/210	140/200*	70	75 x
G-120-400	400	700	224	1196	678	1206	140	270/210	140/200*	78	79 x
G-120-500	500	700	280	1610	828	1633	140/219**	270/210	140/200*	93	140 x
G-120-600	600	700	336	1710	928	1733	140/219**	270/210	140/200*	95	143 x

x = Suitable for Ship to Shore cranes.

* Standard head diameter is 140 mm – head diam 200 mm is optional. ** Cylinder diameter 219 mm is only for the back mounted.

Stroke length mm	Front Mounted F1 mm	Front Mounted F2 mm	Back Mounted B1 mm	Back Mounted B2 mm	Front M1 mm	Front M2 mm	Back M1 mm	Back M2 mm	Front Ø mm	Back Ø mm
200-600	140	25	210	20	270	210	270	210	26	26

More specifications →

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Max ton	Metering Pin Denomination				
	200	300	400	500	600
4	12001	13001	14001	15001	16001
7,5	12002	13002	14002	15002	16002
10	12003	13003	14003	15003	16003
20	12004	13004	14004	15004	16004
30	12005	13005	14005	15005	16005
40	12006	13006	14006	15006	16006
80	12007	13007	14007	15007	16007
100	12008	13008	14008	15008	16008
150	12009	13009	14009	15009	16009
200	12010	13010	14010	15010	16010
300	12011	13011	14011	15011	16011
400	12012	13012	14012	15012	16012
500	12013	13013	14013	15013	16013
600	12014	13014	14014	15014	16014
700	12015	13015	14015	15015	16015
800	12016	13016	14016	15016	16016
900	12017	13017	14017	15017	16017
1000	12018	13018	14018	15018	16018
1500	12019	13019	14019	15019	16019
2000	12020	13020	14020	15020	16020

Metering Pin Denomination System Position		
1:st digit	G-Series. E.g. G-120	1
2:nd-3:rd	Stroke length. E.g. 200 mm	20
4:th-5:th	Reference No. In the mass table. E.g. 80 tonnes	07
= Gives Pin No. 12007		

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

ORDERING EXAMPLE

Buffer G-120, stroke 200 mm, Front mount, 40 tons metering pin, with bellow.

Type Number: [G-120-200F/12006B](#)

Buffer G-120, stroke 600 mm, Back mount, 100 tons metering pin, with bellow & safety wire.

Type Number: [G-120-600B/16008BK](#)

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

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.)