

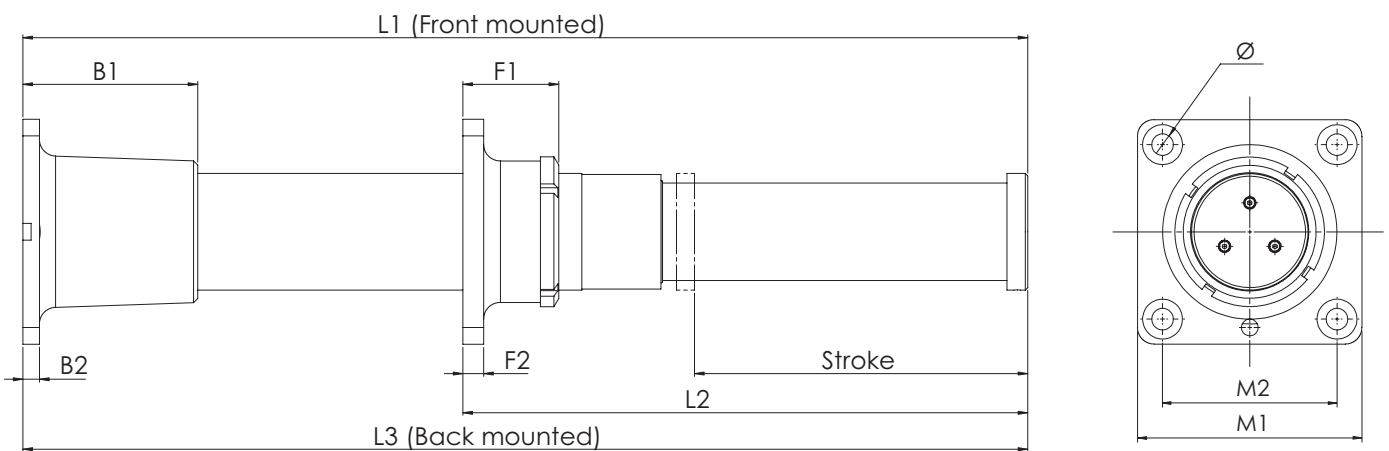
HYBUFF G-80 – GAS HYDRAULIC ENERGY ABSORBERS WITH FRONT OR BACK MOUNTING

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-80-50	50	300	12	288	133	296	95	150/120	100	13	17	x
G-80-100	100	300	24	411	183	420	95	150/120	100	15	19	x
G-80-150	150	300	36	575	233	584	95	150/120	100	18	23	x
G-80-200	200	300	48	691	360	700	95	150/120	100	22	25	x
G-80-400	400	300	96	1255	670	1264	95	150/120	100	34	34	
G-80-500	500	300	120	1600	680	-	95	150/120	100	39	-	
G-80-600	600	300	144	1800	870	-	95	150/120	100	44	-	

x = Suitable for Ship to Shore cranes

Stroke length mm	Front Mounted F1 mm	Front Mounted F2 mm	Back Mounted B1 mm	Back Mounted B2 mm	M1 mm	M2 mm	Ø mm
50-150	53	18	178	18	150	120	18
200-600	95	18	178	18	150	120	18

More specifications →

MEMBER OF DELLNER INDUSTRIAL

Max ton	Metering Pin Denomination Stroke length (mm)						
	50	100	150	200	400	500	600
1,7	80501	81001	81501	82001	84001	85001	86001
3,5	80502	81002	81502	82002	84002	85002	86002
7	80503	81003	81503	82003	84003	85003	86003
13	80504	81004	81504	82004	84004	85004	86004
25	80505	81005	81505	82005	84005	85005	86005
40	80506	81006	81506	82006	84006	85006	86006
50	80507	81007	81507	82007	84007	85007	86007
60	80508	81008	81508	82008	84008	85008	86008
70	80509	81009	81509	82009	84009	85009	86009
80	80510	81010	81510	82010	84010	85010	86010
100	80511	81011	81511	82011	84011	85011	86011
150	80512	81012	81512	82012	84012	85012	86012
200	80513	81013	81513	82013	84013	85013	86013
300	80514	81014	81514	82014	84014	85014	86014
400	80515	81015	81515	82015	84015	85015	86015
500	80516	81016	81516	82016	84016	85016	86016
700	80517	81017	81517	82017	84017	85017	86017
1000	80518	81018	81518	82018	84018	85018	86018

Metering Pin Denomination System Position		
1:st digit	G-Series. E.g. G-80	8
2:nd-3:rd	Stroke length. E.g. 100 mm	10
4:th-5:th	Reference No. In the mass table. E.g. 25 tonnes	05
= Gives Pin No. 81005		

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-80, stroke 100 mm, Front mounting, 25 tons metering pin, with bellow.

Type Number: [G-80-100F/81005B](#)

Buffer G-80, stroke 200 mm, Back mounting, 100 tons metering pin, with bellow & safety wire.

Type Number: [G-80-200B/82011BK](#)

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.)