

	Mini hinge clamps			Hinge clamps			Compact clamps		Flat lever clamps		Position flexible clamps	Flat clamps	Block clamps	Slide pivot clamps	
Type	cartridge type 250 bar	cartridge type 70 bar	mini compact clamps cartridge type 200 bar	flange type 200 bar	cartridge type and flange type 250 bar	flange type 70 bar	cartridge type 250 bar	flange type 250 bar	cartridge type 250 bar	built-in and block-type 120 bar	250 bar	500 bar	70 / 100 bar	500 bar	compact type 350 bar
Data sheet	B 1.8252	B 1.8262	B 1.8271	B 1.825	B 1.8251	B 1.8268	B 1.827	B 1.828	B 1.829	B 1.8291	B 1.733	B 1.8231	B 1.8233	B 1.8241	B 1.8242
Hydraulic connection	drilled channels	drilled channels	drilled channels (1)	pipe thread	pipe thread or drilled channels	pipe thread or drilled channels	drilled channels (1)	drilled channels	drilled channels	drilled channels	drilled channels	pipe thread or drilled channels	pipe thread or drilled channels	pipe thread or drilled channels	pipe thread or drilled channels
Functioning	double acting	double acting	double acting	double acting	double acting	double acting	double acting	double acting	double acting	double acting	double acting	double acting	double acting	double acting	double acting
Special features	– minimum dimensions – body partially recessible	– minimum dimensions – body partially recessible	– minimum dimensions (exterior diameter only 22 mm)	– interchangeable contact bolts	– clamping possible without side loads – 4 sizes	– built-in flow control valve – clamping possible without side loads – 5 sizes – 3 clamping directions selectable	– minimum dimensions – clamping possible without side loads	– minimum dimensions – clamping possible without side loads	– minimum dimensions – particularly flat clamping lever can be swivelled into small recesses	– minimum dimensions – particularly flat clamping lever can be swivelled into small recesses	– clamping unit adapts itself position flexible to the height – workpiece support point adjustable	– high protection against swarf and welding spatter – clamping lever retracts completely	– versions with / without self-locking – clamping direction 0 to 360° adjustable	– high clamping force – compensation of side loads at the clamping point	– minimum dimensions – compensation of side loads at the clamping point
Position monitoring	–	–	–	–	Option: inductive or pneumatic position monitoring by extended piston rod	Option: inductive or pneumatic position monitoring by extended piston rod	Option: pneumatic clamping monitoring or unclamping monitoring	Option: pneumatic clamping monitoring or unclamping monitoring	Double acting: Option: pneumatic clamping monitoring or unclamping monitoring	Double acting: pneumatic clamping monitoring or unclamping monitoring	Option: inductive or pneumatic control of the unclamping position and the end of the clamping stroke	Accessory: inductive control of the unclamping position and the clamping position	on request	Accessory: inductive or pneumatic control of the clamping lever	Accessory: inductive or pneumatic control of the clamping lever
Number of sizes	1	1	1	1	4	5	4	4	4	4	1	2	2	3	1
Max. clamping force	2.2 kN	2.3 kN	1.3 kN	18 kN	3.3 ... 21.5 kN	2.3 ... 12.1 kN	2.5 ... 10.5 kN	2.5 ... 10.5 kN	2.5 ... 13.0 kN	2.9 ... 9.7 kN	7.5 kN	12.0 ... 20.5 kN	7.5 ... 31.0 kN	15.0 ... 50.0 kN	10.0 kN
Clamping range	±1.5 mm	±1.5 mm	5.0 mm	6.0 mm	4.0 ... 9.0 mm	2.1 ... 4.1 mm	4.5 ... 8.0 mm	4.5 ... 8.0 mm	2.7 ... 5.1 mm	2.7 ... 5.1 mm	pendulum range ± 4.0 mm	9.0 ... 16.0 mm	6.0 ... 8.0 mm	7.0 ... 9.5 mm	5.5 mm
Max. operating pressure	250 bar	70 bar	200 bar	200 bar	250 bar	70 bar	250 bar	250 bar	250 bar	120 bar	250 bar	500 bar	70 / 100 bar	500 bar	350 bar
Min. operating pressure	10 bar	10 bar	20 bar	10 bar	10 bar	10 bar	20/70 bar (2)	20/70 bar (2)	20 bar	20 bar	50 bar	10 bar	20 / 30 bar	10 bar	10 bar
Clamping lever variants	with swivel contact bolt long clamping lever without clamping lever	with swivel contact bolt long clamping lever without clamping lever	short clamping lever	with contact bolt long clamping lever clamping lever cranked	with swivel contact bolt long clamping lever without clamping lever	with contact bolt long clamping lever without clamping lever	short clamping lever long clamping lever (blank) without clamping lever	short clamping lever long clamping lever (blank) without clamping lever	short clamping lever long clamping lever	short clamping lever long clamping lever	with swivel contact bolt	dome-head clamping lever with swivel ball	with interchangeable contact bolts	with swivel ball long clamping lever	dome-head clamping lever
Seals / wipers	FKM	FKM	NBR / PUR	NBR	FKM	NBR / FKM	NBR / PUR	NBR / PUR	NBR / FKM	NBR / FKM	NBR	NBR	NBR / FKM	NBR	NBR
Metallic wiper edge	●	●	●	–	●	●	●	●	●	●	–	–	–	–	●
Max. operating temperature	150 °C	150 °C	80 °C	80 °C	150 °C	80 °C	80 °C	80 °C	80 °C	80 °C	80 °C	80 °C	80 °C	80 °C	80 °C
Max. flow rate clamping	15 cm³/s	15 cm³/s	5 cm³/s	40 cm³/s	15.7 ... 55 cm³/s	16 ... 150 cm³/s	4 ... 25 cm³/s	4 ... 25 cm³/s	4 ... 40 cm³/s	5 ... 40 cm³/s	15 cm³/s	10 ... 20 cm³/s	25 ... 100 cm³/s	25 ... 80 cm³/s	10 cm³/s
Clamping without side loads	possible	possible	●	–	possible	possible	●	●	●	●	possible	possible	–	possible	possible
Mounting position	any	any	any	any	any	any	any	any	any	any	any (3)	any	any	any	any

Legend: ● standard
 (1) Accessory: mounting body for pipe thread
 (2) 20 bar without position monitoring, 70 bar with clamping monitoring or unclamping monitoring
 (3) Adapt counterweight