



Sure to be safe

**Hydraulic Buffers
Type KHP**



Hydraulic buffers type KHP

Product description

The hydraulic buffers of the production series KHP were developed to be usable in all technical fields of application in heavy industry. Being constructionally closed in itself, these buffers are usable in any given operating situation.

Since there is no need for this damping device to be supplied with external energy or other external means, it is outstandingly suited to decelerate moving masses along the shortest path considering the requirements of the user.

Features

- Diameter range of 75 mm up to 175 mm
- Buffer stroke of 50 mm up to 1600 mm
- Max. buffer power up to 1000 kN
- Operating temperature of -30 °C up to +100 °C
- Wear resistant piston rod by means of hard chrome plating
- Optional mounted piston rod protection

Advantages

In the development of the KHP hydraulic buffer individual needs of the customer were taken into account.

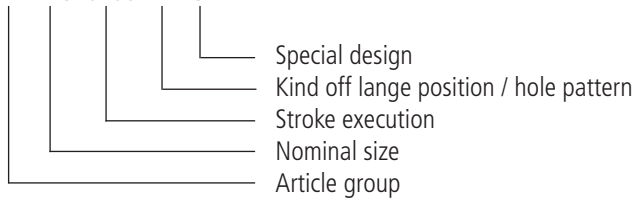
For instance, we do supply our buffers as a pre-finished version (front flange) for buffers of the product OLEO and RIW regarding the installation dimensions and the buffer characteristics.

Optimal throttle features or other special characteristics meet the requirements of a customer specific throttle design corresponding to the particular application.

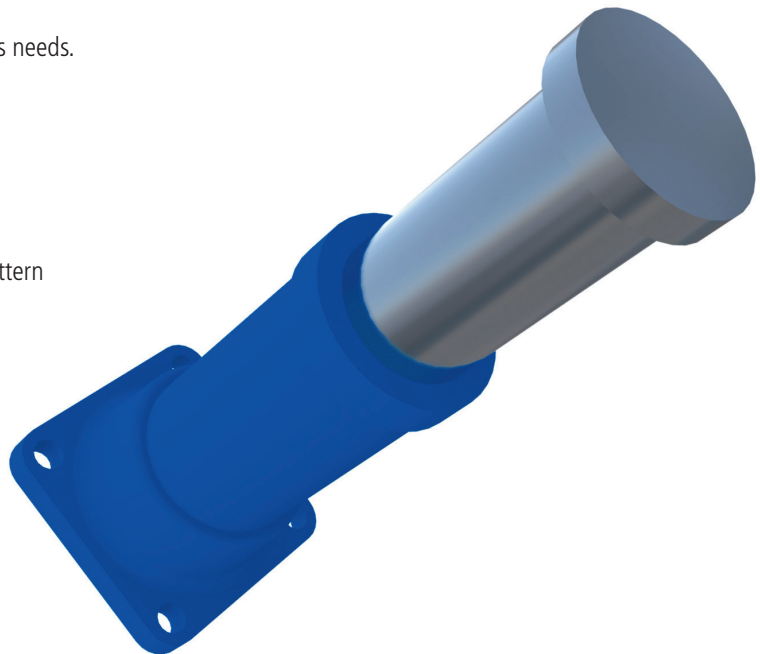
Different paintwork is also possible according to the customers needs.

Configuration code

KHP 115. 0200. FM. S



We readily work out the optimal hydraulic buffer design for your application, also for different cases as comprised in our standard program.



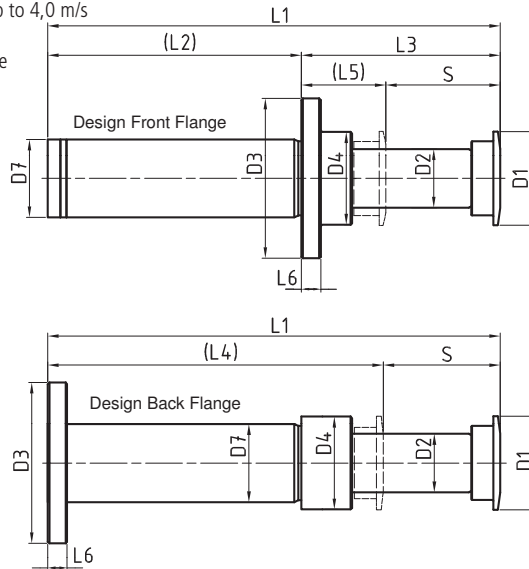
STRENGTHENING THE PORTFOLIO OF DRIVE COMPONENTS

With expanded capacity and larger machinery SIBRE Italia s.r.l. offers a wide range of customisable drive components such as hooks, rope sheaves, limit switches and crane buffers for applications in the steel industry and materials handling. Please ask for our other brochures! Our sales team is looking forward to advise you. You are always welcome!

Type KHP 75

PERFORMANCE DATA ¹⁾									
Nominal Ø [mm]	Stroke S [mm]	Max. Buffer Force [kN]	Max. Energy Absorp./Stroke ²⁾ [kJ]	Max. Energy Absorption per h ³⁾ [kJ/h]	Static Recoil Force		Max. Angle Deviation ⁵⁾		Weight ca. [kg]
					Beginning of Stroke ⁴⁾ [kJ]	End of Stroke ⁴⁾ [kJ]	F [°]	B [°]	
75	100	200	20	1.300	1,4	13,5	4,3	3,2	22
	150	200	30	1.850		17,0	3,2	2,4	24
	200	200	38	2.500		17,2	2,5	1,9	26
	300	180	50	3.350		16,4	2,0	1,5	28
	400	160	55	3.700		15,2	1,7	1,3	30
	500	140	58	3.900		13,8	1,6	1,2	32
	600	120	60	4.000		13,6	1,5	1,1	36

- 1) Buffer designed speed 0,5 up to 4,0 m/s
- 2) for standard characteristic
- 3) at 30 °C ambient temperature
- 4) at 5 bar gas pressure
- 5) at max. buffer force



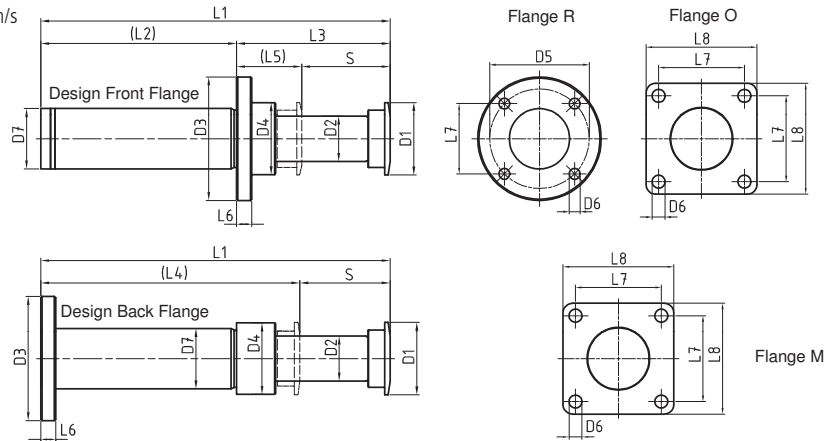
DIMENSIONS [mm]																
Nominal Ø	Stroke S	D1	D2	D3	D4	D5	D6 ⁶⁾	D7	L1	L2 ⁶⁾	L3 ⁶⁾	L4	L5 ⁷⁾	L6	L7 ⁷⁾	L8 ⁷⁾
75	100	120	60	175	100	135	18 18	80	425	230 241	195 184	325	95 84	25	120	150
	150								560	315 326	245 234	410	95 84			
	200								700	405 340	295 360	500	95 160			
	300								980	585 403	395 577	680	95 277			
	400								1.265	770 588	495 677	865	95 277			
	500								1.555	960 723	595 832	105 5	95 332			
	600								1.840	1.145 908	695 932	124 0	95 332			

- 6) corresponding dimensions for flange R / flange O
- 7) flange dimensions O

Type KHP 95

PERFORMANCE DATA ¹⁾									
Nominal Ø [mm]	Stroke S [mm]	Max. Buffer Force [kN]	Max. Energy Absorp./Stroke ²⁾ [kJ]	Max. Energy Absorption per h ³⁾ [kJ/h]	Static Recoil Force		Max. Angle Deviation ⁵⁾		Weight ca. [kg]
					Beginning of Stroke ⁴⁾ [kJ]	End of Stroke ⁴⁾ [kJ]	F [°]	B [°]	
95	100	260	25	1.600	2,3	12,8	5,0	4,4	23
	150	260	37	2.300		15,8	4,5	3,3	26
	200	260	49	3.100		15,0	4,0	2,6	30
	300	250	67	4.100		18,0	3,0	1,9	36
	400	230	82	5.100		21,0	2,5	1,6	41
	500	210	92	6.100		20,3	2,2	1,5	46
	600	190	100	7.100		20,0	2,1	1,4	53
	800	150	105	9.100		19,0	1,9	1,3	67

- 1) Buffer designed speed 0,5 up to 4,0 m/s
- 2) for standard characteristic
- 3) at 30 °C ambient temperature
- 4) at 5 bar gas pressure
- 5) at max. buffer force



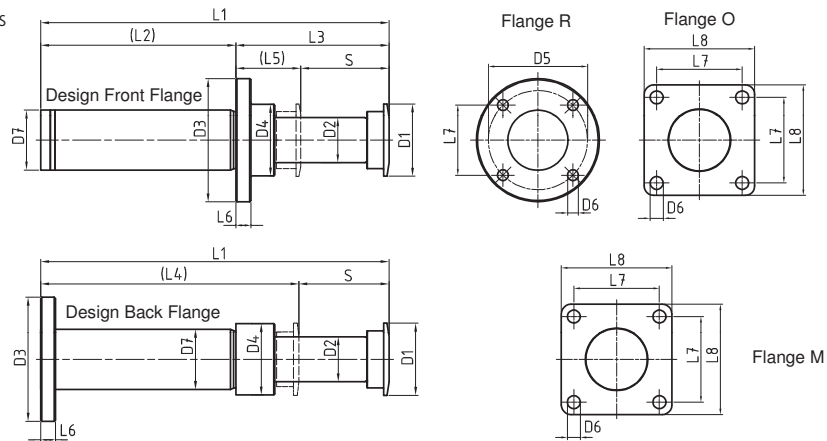
DIMENSIONS [mm]																
Nominal Ø	Stroke S	D1	D2	D3	D4	D5	D6 ⁶⁾	D7	L1	L2 ⁶⁾	L3 ⁶⁾	L4	L5 ⁷⁾	L6	L7 ⁷⁾	L8 ⁷⁾
95	100	120	75	205	119	165	18 18 21	100	440	235 256 178	205 184 262	340	105 84 162	25	120 133	150 172
	150								580	325 346 226	255 234 354	430	105 210 204			
	200								730	425 370	305 360	530	105 327			
	300								1.010	605 433 416	405 577 594	710	105 277 294			
	400								1.285	780 608 531	505 677 594	885	105 277 354			
	500								1.575	960 743	605 832	1.075	105 332			
	600								1.865	1.160 933	705 932	1.265	105 332			
	800								2.450	1.545 1.535	905 915	1.650	105 115			

- 6) corresponding dimensions for flange R / flange O / flange M
- 7) flange dimensions O / M

Type KHP 115

PERFORMANCE DATA ¹⁾									
Nominal Ø [mm]	Stroke S [mm]	Max. Buffer Force [kN]	Max. Energy Absorp./Stroke ²⁾ [kJ]	Max. Energy Absorption per h ³⁾ [kJ/h]	Static Recoil Force		Max. Angle Deviation ⁵⁾		Weight ca. [kg]
					Beginning of Stroke ⁴⁾ [kJ]	End of Stroke ⁴⁾ [kJ]	F [°]	B [°]	
115	100	520	49	3.150	3,7	16,4	5,0	4,5	44
	150	520	97	6.150		19,3	3,9	3,1	56
	200	520	115	7.650		21,2	3,2	2,6	62
	300	480	133	9.150		21,6	3,0	2,4	68
	400	440	162	12.150		22,1	2,5	2,0	81
	500	400	185	13.600		23,1	2,2	1,8	90
	600	360	198	15.100		25,9	2,1	1,7	98
	800	300	220	17.100		26,4	1,9	1,5	130

- 1) Buffer designed speed 0,5 up to 4,0 m/s
 2) for standard characteristic
 3) at 30 °C ambient temperature
 4) at 5 bar gas pressure
 5) at max. buffer force



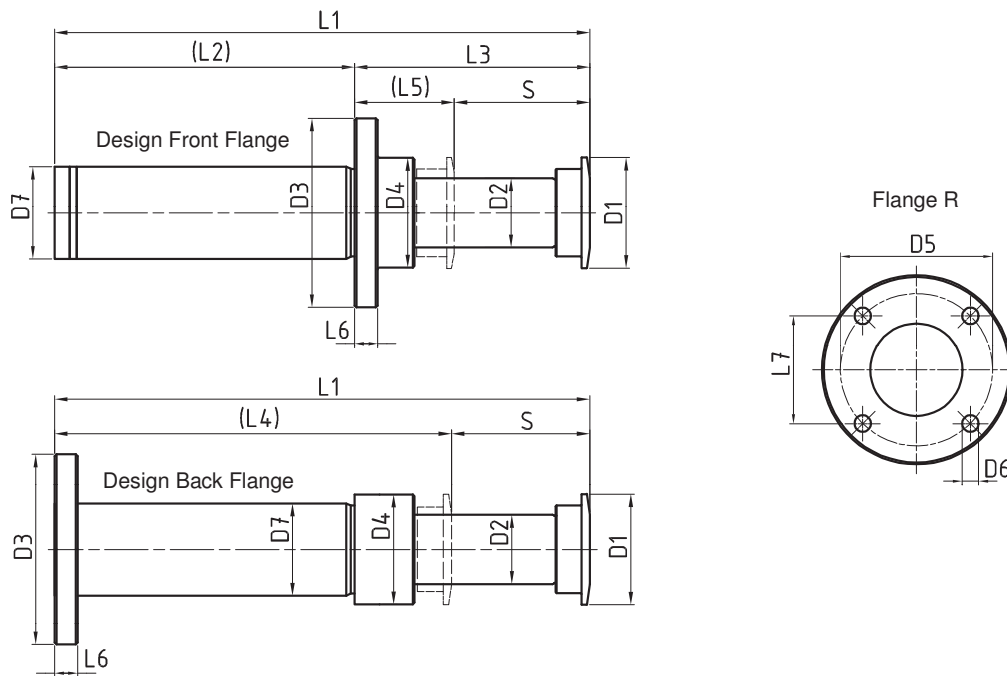
DIMENSIONS [mm]																
Nominal Ø	Stroke S	D1	D2	D3	D4	D5	D6 ⁶⁾	D7	L1	L2 ⁶⁾	L3 ⁶⁾	L4	L5 ⁷⁾	L6	L7 ⁷⁾	L8 ⁷⁾
115	100	140	95	310	148	260	23 26 27	130	460	230 276	230 184	360	130 84	30	210 178	270 229
	150								750	420 390 272	330 360 478	550	130 160 278			
	200								890	510 363	380 527	640	130 277			
	300								1.035	605 458 508	430 577 527	735	130 277 227			
	400								1.325	795 648 682	430 577 527	925	130 277 243			
	500								1.610	980 778 854	630 832 756	1.110	130 332 256			
	600								1.880	1150 948	730 932	1.280	130 332			
	800								2.450	1.520 1.535	930 915	1.650	130 115			

- 6) corresponding dimensions for flange R / flange O / flange M
 7) flange dimensions O / M

Type KHP 135

PERFORMANCE DATA ¹⁾									
Nominal Ø [mm]	Stroke S [mm]	Max. Buffer Force [kN]	Max. Energy Absorp./Stroke ²⁾ [kJ]	Max. Energy Absorption per h ³⁾ [kJ/h]	Static Recoil Force		Max. Angle Deviation ⁵⁾		Weight ca. [kg]
					Beginning of Stroke ⁴⁾ [kJ]	End of Stroke ⁴⁾ [kJ]	F [°]	B [°]	
135	200	700	127	8.000	5,5	70	4,5	3,5	72
	400	650	236	15.000		75	2,7	1,7	99
	600	550	300	17.000		75	2,3	1,3	125
	800	450	327	19.000		75	1,7	0,9	160
	1000	400	364	21.000		75	1,3	0,7	192
	1200	400	436	23.000		75	1,0	0,6	225

- 1) Buffer designed speed 0,5 up to 4,0 m/s
- 2) for standard characteristic
- 3) at 30 °C ambient temperature
- 4) at 5 bar gas pressure
- 5) at max. buffer force



DIMENSIONS [mm]														
Nominal Ø	Stroke S	D1	D2	D3	D4	D5	D6	D7	L1	L2	L3	L4	L5	L6
135	200	177	115	300	185	245	27	156	750	395	355	550	115	35
	400								1.325	770	555	925		
	600								1.880	1.125	755	1.280		
	800								2.450	1.495	955	1.650		
	1000								3.020	1.865	1.155	2.020		
	1200								3.590	2.235	1.355	2.390		

Type KHP 175

PERFORMANCE DATA ¹⁾									
Nominal Ø [mm]	Stroke S [mm]	Max. Buffer Force [kN]	Max. Energy Absorp./Stroke ²⁾ [kJ]	Max. Energy Absorption per h ³⁾ [kJ/h]	Static Recoil Force		Max. Angle Deviation ⁵⁾		Weight ca. [kg]
					Beginning of Stroke ⁴⁾ [kJ]	End of Stroke ⁴⁾ [kJ]	F [°]	B [°]	
175	200	1.000	182	8.000	9,5	80	6,0	5,0	105
	400	950	345	14.400		80	5,0	4,0	165
	500	900	409	17.500		90	4,5	3,5	195
	600	860	469	20.500		95	4,0	3,0	230
	800	750	545	25.000		100	3,0	2,0	290
	1.000	600	545	28.000		110	2,3	1,3	350
	1.200	500	545	28.000		110	1,7	0,8	410
	1.600	400	545	32.000		110	1,5	0,6	530

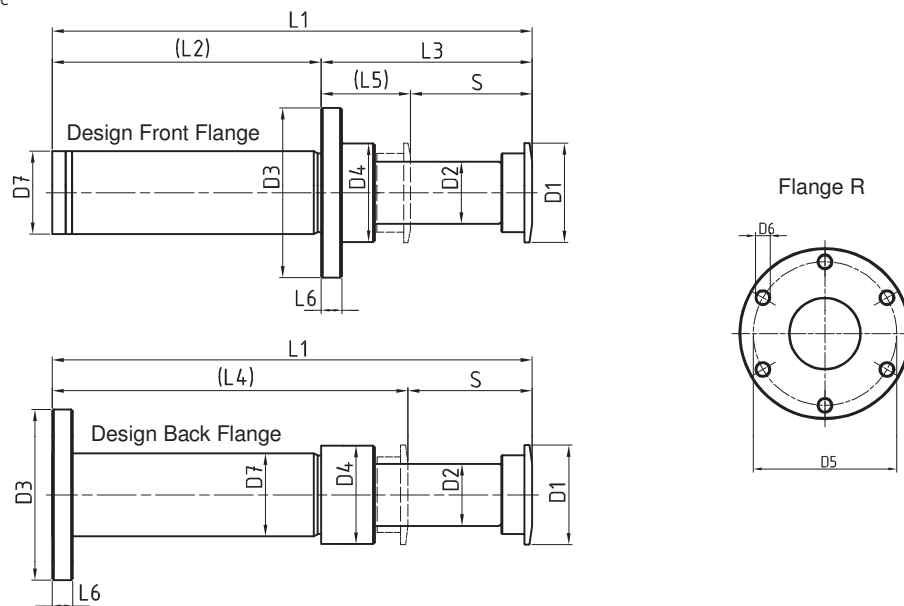
1) Buffer designed speed 0,5 up to 4,0 m/s

2) for standard characteristic

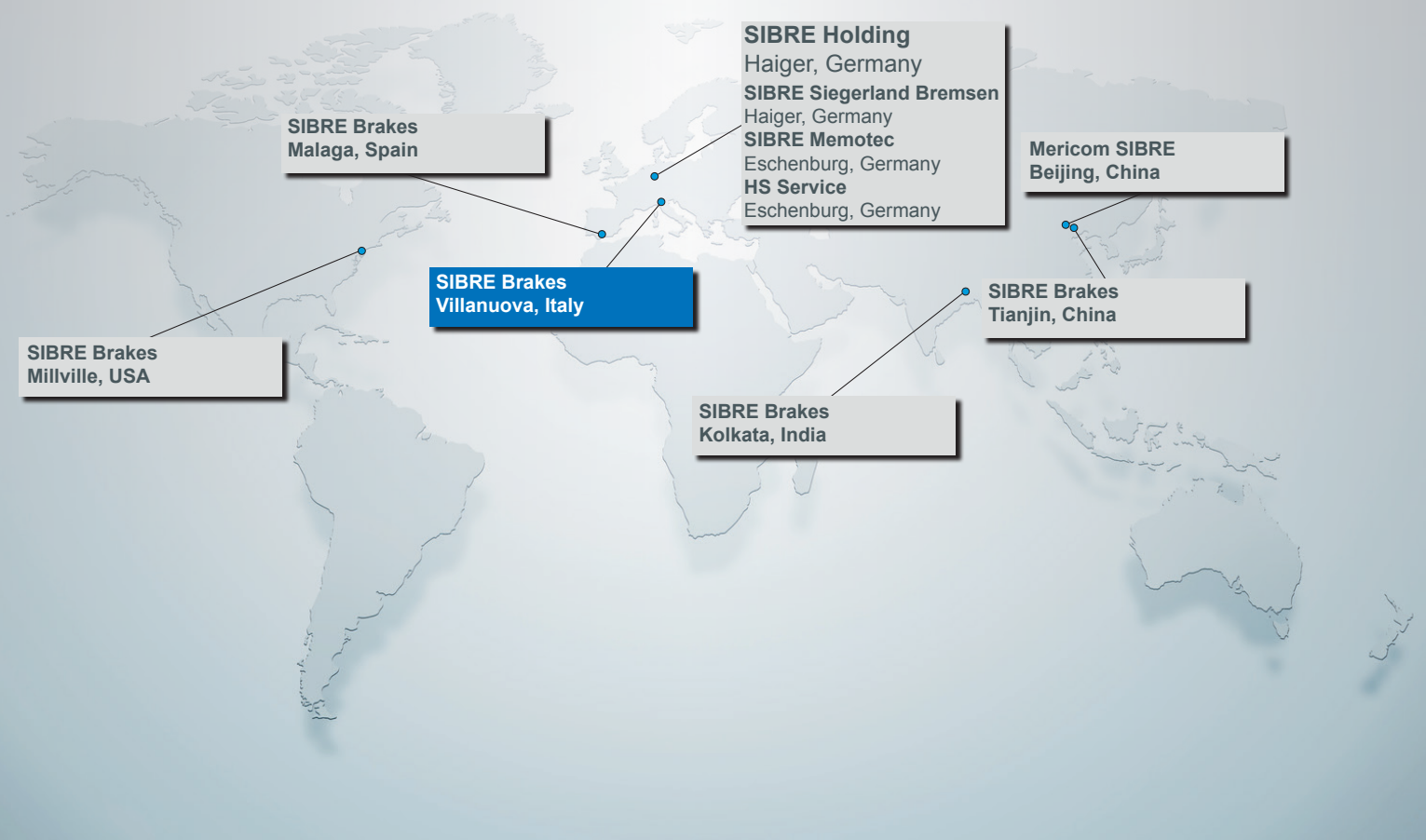
3) at 30 °C ambient temperature

4) at 5 bar gas pressure

5) at max. buffer force



DIMENSIONS [mm]														
Nominal Ø	Stroke S	D1	D2	D3	D4	D5	D6	D7	L1	L2	L3	L4	L5	L6
175	200	185	150	350	230	295	27	206	860	420	440	660	240	50
	400								1.485	845	640	1.085		
	500								1.765	1.025	740	1.265		
	600								2.065	1.225	840	1.465		
	800								2.660	1.620	1.040	1.860		
	1.000								3.225	1.985	1.240	2.225		
	1.200								3.815	2.375	1.440	2.615		
	1.600								4.995	3.155	1.840	3.395		



SIBRE Italia s.r.l.

Via Fibbia 1 • I-25080 Villanuova sul Clisi Bs
 phone +39 0365 63699 • fax +39 0365 556062
 mail info@sibre.it • home www.sibre.it



Siegerland Bremsen