

KONI

'78

GAS HYDRAULIC SHOCK ABSORBERS FOR MOTOCROSS



RECOMMENDATION LIST

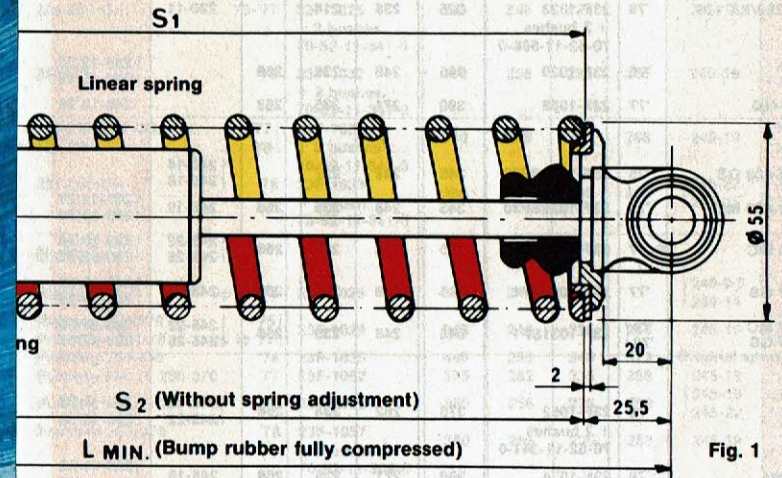
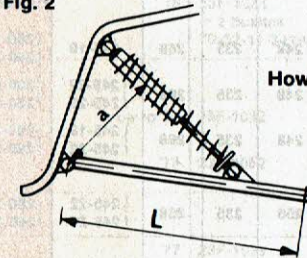


Fig. 1

Fig. 2



How to determine link ratio

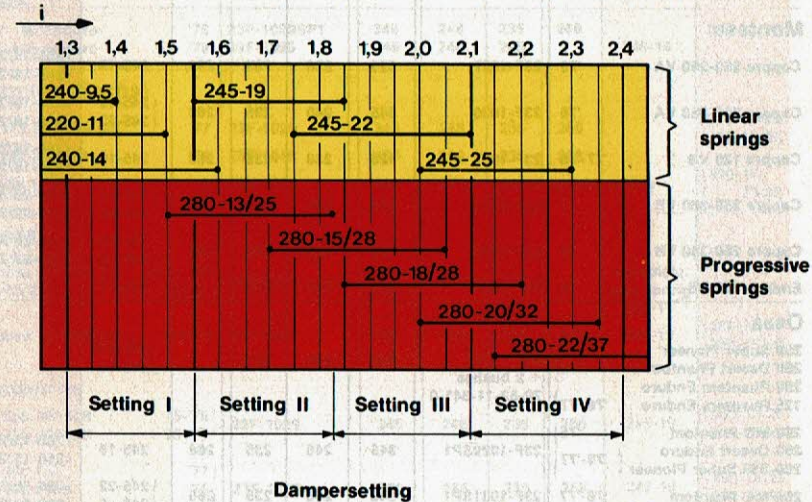
$$i = \frac{L}{a}$$

i = link ratio

L = Swing arm length

a = Perpendicular length from damper to axis of swing arm

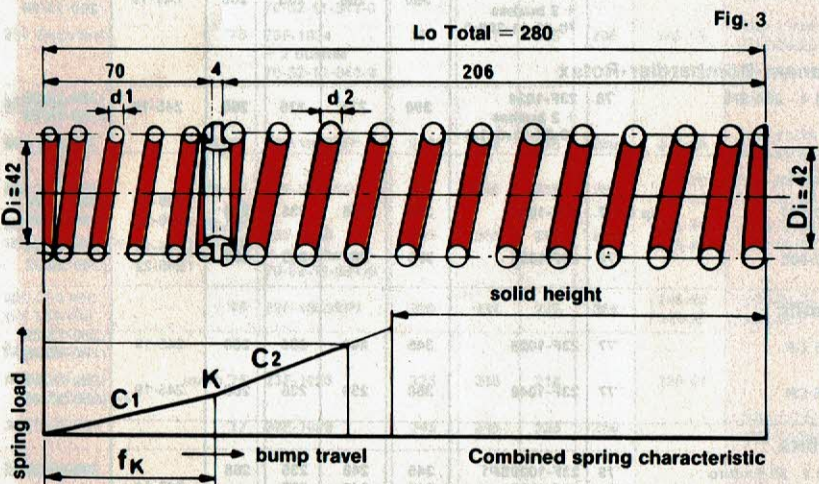
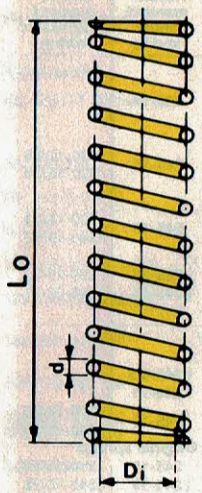
Choice of damper setting and springs (both depending on link ratio)



LINEAR SPRINGS

Table 2

Type	Lo mm	Di mm	d mm	C N/mm	solid height mm	Colour code
220-11	220	39	6	12	84	white/white
240-9,5	240	39	6	9,5	102	white
240-14	240	38,5	6,5	14	104	red/red/red
245-19	245	42	7,25	19	105	white/green/white
245-22	245	42	7,5	22	105	white/green/red
245-25	245	42	7,75	25	109	white/green/yellow



The short spring is coil binding at K after combined bump travel f_k .

C_1 = Total spring rate of both springs up to point K.

C_2 = Spring rate, of the longer spring only, from K.

PROGRESSIVE SPRINGS

Table 3

Type	Lo mm	C_1 N/mm	C_2 N/mm	d_1 mm	d_2 mm	f_k mm	solid height mm	Colour code
280-13/25	280	13	25	6	7,5	80	134	Short spring/Long spring green-blue/green-white-white
280-15/28	280	15	28	6	7,75	70	137	green-blue/green-white
280-18/28	280	18	28	7	7,75	80	143	green-green/green-white
280-20/32	280	20	32	7	8	72	142	green-green/green-red
280-22/37	280	22	37	7	8,25	67	145	green-green/green-yellow

NB : One set progressive springs comes with floating spring collars nr. 71.29.11.020.0.

Make and model	Year	Dampertype	Lmax.	Lmin.	S_1	S_2	Recommended linear spring	Recommended progressive spring
Puch								
MC 250	'76-'77	23F-1031SP1	345	248	235	268	245-22	280-18/28 280-20/32
MC 250	'78	23F-1033SP1	360	256	235	268	245-22 245-25	280-20/32 280-22/37
GS 75	'78	23F-1029SP1	345	248	235	268		280-13/25
GS 250	'78	23F-1032 + 2 bushes 70-52-11-341-0	360	256	235	268	245-19	280-15/28 280-18/28
Suzuki								
TS 125-185-250-400	up to '77	23F-1024	325	238	214		220-11	
PE 250 Enduro	'77	23F-1032	360	256	235	268	245-19 245-22	280-15/28 280-18/28 280-20/32
RM 125-250-370	'75							
RM 250-370	'76	23F-1034	390	271	235	268	245-19	280-15/28 280-18/28
RM 125	'76 up to '78	23F-1024	325	238	214		220-11	
RM 250-370		23F-1052	375	262	235	268	245-19	280-15/28 280-18/28
RM 380	'78	23F-1034	390	271	235	268	245-19	280-15/28 280-18/28
SWM								
50-125 CR and GS	'75-'76	23F-1033SP1	360	256	235	268	245-22 245-25	280-20/32 280-22/37
RS 250 MC	'78							
KS 250 MC	'78							
RS 125-175-250 GS	'78	23F-1048	360	256	235	268		280-13/25 280-15/28
Regularita 125	'78							
Sver 125	'78	23F-1024	325	238			220-11	
SVE S 50 (Enduro)	'78	23F-1024	325	238			220-11	
Villa								
250-350 Enduro	'78	23F-1032 + 2 bushes 70-52-11-341-0	360	256	235	268	245-19	280-15/28 280-18/28
250-450 CR	up to '76	23F-1030	345	248	235	268	245-19	280-15/28 280-18/28
Yamaha								
DT-125 Enduro	'77	23F-1023 + 2 bushes 70-52-11-508-0	325	238	214		220-11	
XT-500	'76	23F-1029	345	248	235	268	245-19	280-13/25 280-15/28
XT-500	'77	23F-1048	360	256	235	268	245-19	280-13/25 280-15/28
TT-500								

For application on road machines,
see the general KONI brochure.

available from: