GE3 HC High Cyclicity

3-WAY HIGH PRESSURE BALL VALVES

1.000.000 CYCLES

Edition. 21.2

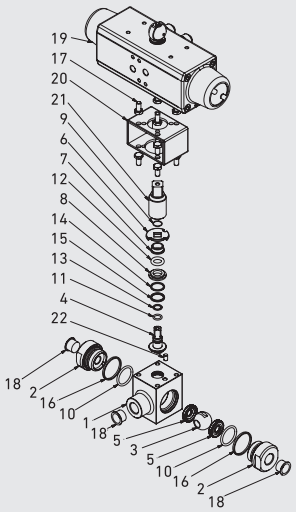
CS Carbon Steel

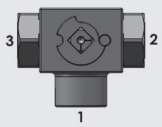
- Type: ball valve 3 way high cycles
- Sizes: from DN10 up to DN25
- Ends: BSP-NPT-SAE
- Pressure: up to PN500
- Temp range: from -20°C to +100°C
- Treatment: Galvanized

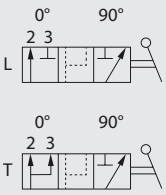
SS Stainless Steel

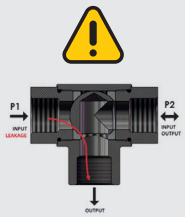
- Type: ball valve 3 way high cycles
- Sizes: from DN10 up to DN25
- Ends: BSP-NPT-SAE
- Pressure: up to PN500
- Temp range: from -30°C to +100°C

STANDARD COMPOSITION OF VALVE

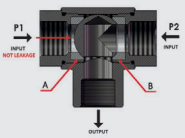






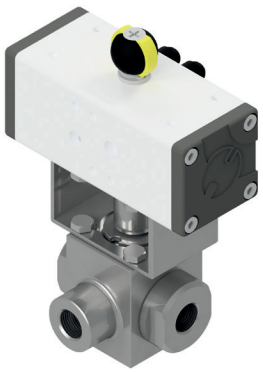


GE3K L / T ball valve the seal on the left (a) is pushed towards the ball by the pressure (p1) the floating ball is pushed against the seal on the right (b) creating a watertight seal without any leakages.



POS	DESCRIPTION	Q.TY DN10-13	Q.TY DN20-25-32	CS Carbon Steel	SS Stainless Steel
				MATERIAL	
1	Body	1	1	1,0737	1,4404
2	Adapter	2	2	1,0460	1,4404
3	Ball	1	1	1,4404	1,4404
4	Stem	1	1	1,4542	1,4542
5	Ball seat	2	2	PA612G	PA612G
6	Washer	1	1	1,0116	1,0116
7	Upper Bushing	1	1	POM - A1000	POM - A1000
8	Lower Bushing	1	1	POM - A1000	POM - A1000
9	Seeger	1	1	1,4301	1,4301
10	Adapter o-ring	2	2	NBR	NBR
11	Stem o-ring	1	1	NBR	NBR

POS	DESCRIPTION	Q.TY DN10-13	Q.TY DN20-25-32	CS Carbon Steel	SS Stainless Steel
				MATERIAL	
12	Stem o-ring	1	/	NBR	NBR
13	Stem Back-up	1	1	PTFE	PTFE
14	Stem Back-up	1	/	PTFE	PTFE
15	Stem quad-ring	1	1	NBR	NBR
16	Closure gasket	2	2	GRAPHITE	GRAPHITE
17	Screws	8	8	ISO 4017 8.8	ISO 4017 8.8
18	Caps	3	3	PVC	PVC
19	Actuator	1	1	N/A	N/A
20	Connector	1	1	1,0737	1,0737
21	Joint	1	1	1,0737	1,0737
22	Pin	1	1	1,0737	1,4404



CODE DESCRIPTION STRUCTURE

GE3 HC	G 1/2	DN13	1	2	M	4	A	B

Type and way of valve

GE2 HC 3-way

Ends

GAS DIN/ ISO 228 BSP	NPT ANSI /ASME B1.20.1	SAE J1926-1
G 3/8	N 3/8	SAE6
G 1/2	N 1/2	SAE8
G 3/4	N 3/4	SAE12
G 1	N 1	SAE16

Size

from DN10 to DN25

Body Material

- **1** = 1,0737
- **4** = 1,4404

Adapter material

- **2** = 1,0460
- **4** = 1,4404

Stem material

- **M** = 1,4542
- **M** = 1,4542

Ball Material

- **4** = 1,4404
- **4** = 1,4404

Seat material

A = POM **D** = PEEK* **G** = PA612* **K** = GEMPTFE* **C** = PTFE*

Seal material

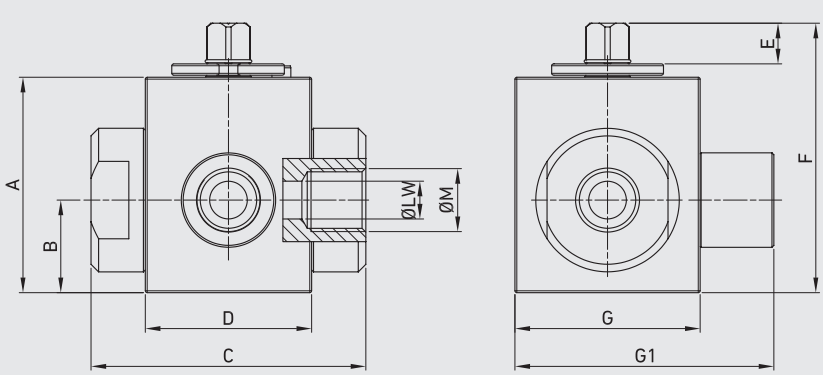
B = NBR **E** = FKM* **F** = EPDM* **L** = MVQ*

ALSO AVALIABLE IN BARE STEM DESIGN WITH ACTUATOR HOLES

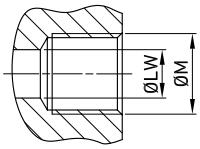
*On request

- Pneumatic and electrical actuator

For further special requests please consult our technical/commercial service.



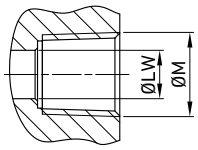
STANDARD DESIGN: BARE STEM WITH ACTUATOR HOLES



GE3 HC DIN/ISO 228 BSP

TYPE	DN	PN			A	B	C	D	E	F	G	G1	ØM	ØS	ØT	ISO5211	SW	ØLW	WEIGHT		ITEM CODE (CS Carbon Steel)	ITEM CODE (SS Stainless Steel)
GE3 G 3/8	10	MPa	50	mm	57	24,5	73	44	11	71,3	49	68,5	G 3/8	M6	50	F05	9	10	kg	0,8	G610203A1301TAA	G590203A2P01TAA
		Psi	7250	inch	2,24	0,96	2,87	1,73	0,43	2,81	1,93	2,70			1,97		0,35	0,39	lb	1,76		
GE3 G 1/2	13	MPa	50	mm	57	23,5	81	48	11	71,3	49	70,5	G 1/2	M6	50	F05	9	13	kg	1,318	G610204A1301TAA	G590204A2P01TAA
		Psi	7250	inch	2,24	0,93	3,19	1,89	0,43	2,81	1,93	2,78			1,97		0,35	0,51	lb	2,91		
GE3 G 3/4	20	MPa	40	mm	65	27	98	62	14	83,7	55	85	G 3/4	M6	50	F05	14	20	kg	2	G610205A1301TAA	G590205A2P01TAA
		Psi	5800	inch	2,56	1,06	3,86	2,44	0,55	3,30	2,17	3,35			1,97		0,55	0,79	lb	4,41		
GE3 G 1/2	25	MPa	35	mm	75	33,5	106	66	14	93,6	65	97,5	G1	M6	50	F05	14	25	kg	2,572	G610206A1301TAA	G590206A2P01TAA
		Psi	5075	inch	2,95	1,32	4,17	2,60	0,55	3,69	2,56	3,84			1,97		0,55	0,98	lb	5,67		

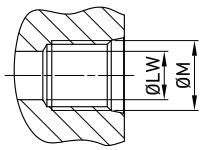
Itemcodes refer to the L-shaped hydraulic layout only.



GE3 HC ANSI/ASME B1.20.1 NPT

TYPE	DN	PN			A	B	C	D	E	F	G	G1	ØM	ØS	ØT	ISO5211	SW	ØLW	WEIGHT		Carbon Steel ITEM CODE	Stainless Steel ITEM CODE
GE3 N 3/8	10	MPa	50	mm	57	24,5	73	44	11	71,3	49	68,5	N 3/8	M6	50	F05	9	10	kg	0,8	G610903A1301TAA	G610903A2P01TAA
		Psi	7250	inch	2,24	0,96	2,87	1,73	0,43	2,81	1,93	2,70			1,97		0,35	0,39	lb	1,76		
GE3 N 1/2	13	MPa	50	mm	57	23,5	81	48	11	71,3	49	70,5	N 1/2	M6	50	F05	9	13	kg	1,318	G610904A1301TAA	G610904A2P01TAA
		Psi	7250	inch	2,24	0,93	3,19	1,89	0,43	2,81	1,93	2,78			1,97		0,35	0,51	lb	2,91		
GE3 N 3/4	20	MPa	40	mm	65	27	98	62	14	83,7	55	85	N 3/4	M6	50	F05	14	20	kg	2	G610905A1301TAA	G610905A2P01TAA
		Psi	5800	inch	2,56	1,06	3,86	2,44	0,55	3,30	2,17	3,35			1,97		0,55	0,79	lb	4,41		
GE3 N 1	25	MPa	35	mm	75	33,5	106	66	14	93,6	65	97,5	N1	M6	50	F05	14	25	kg	2,572	G610906A1301TAA	G610906A2P01TAA
		Psi	5075	inch	2,95	1,32	4,17	2,60	0,55	3,69	2,56	3,84			1,97		0,55	0,98	lb	5,67		

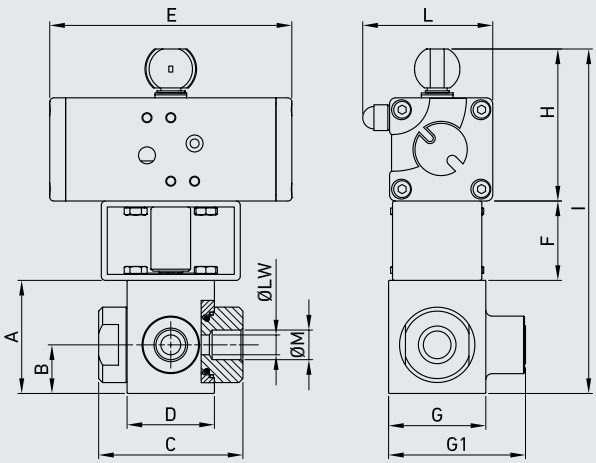
Itemcodes refer to the L-shaped hydraulic layout only.



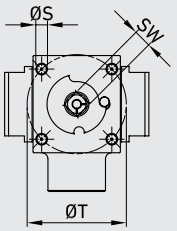
GE3 HC SAE J1926-1

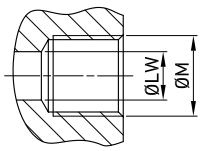
TYPE	DN	PN			A	B	C	D	E	F	G	G1	ØM	ØS	ØT	ISO5211	SW	ØLW	WEIGHT		Carbon Steel ITEM CODE	Stainless Steel ITEM CODE
GE3 SAE6	10	MPa	50	mm	57	24,5	73	44	11	71,3	49	68,5	9/16 UNF	M6	50	F05	9	10	kg	0,8	G610B03A1301TAA	G610B03A2P01TAA
		Psi	7250	inch	2,24	0,96	2,87	1,73	0,43	2,81	1,93	2,70			1,97		0,35	0,39	lb	1,76		
GE3 SAE8	13	MPa	50	mm	57	23,5	81	48	11	71,3	49	70,5	3/4 UNF	M6	50	F05	9	13	kg	1,318	G610B04A1301TAA	G610B04A2P01TAA
		Psi	7250	inch	2,24	0,93	3,19	1,89	0,43	2,81	1,93	2,78			1,97		0,35	0,51	lb	2,91		
GE3 SAE12	20	MPa	40	mm	65	27	98	62	14	83,7	55	85	1 1/16 UNF	M6	50	F05	14	20	kg	2	G610B05A1301TAA	G610B05A2P01TAA
		Psi	5800	inch	2,56	1,06	3,86	2,44	0,55	3,30	2,17	3,35			1,97		0,55	0,79	lb	4,41		
GE3 SAE16	25	MPa	35	mm	75	33,5	106	66	14	93,6	65	97,5	1 5/16 UNF	M6	50	F05	14	25	kg	2,572	G610B06A1301TAA	G610B06A2P01TAA
		Psi	5075	inch	2,95	1,32	4,17	2,60	0,55	3,69	2,56	3,84			1,97		0,55	0,98	lb	5,67		

Itemcodes refer to the L-shaped hydraulic layout only.



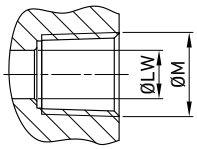
CUSTOMIZED VALVES WITH SELECTED ACTUATORS DOUBLE ACTING





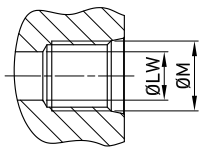
GE3 HC DIN/ISO 228 BSP

TYPE	DN	PN		A	B	C	D	E	F	G	G1	H	I	L	ØM	ØS	ØT	ISO5211	SW	ØLW	WEIGHT
GE3 HC G 3/8	10	MPa 50	mm	57	24,5	73	44	122	40	49	68,5	76,6	173,6	65,5	G 3/8	M6	50	F05	9	10	kg 1,0610
		Psi 7250	inch	2,24	0,96	2,87	1,73	4,80	1,57	1,93	2,70	3,02	6,83	2,58			1,97		0,35	0,39	lb 2,34
GE3 HC G 1/2	13	MPa 50	mm	57	23,5	81	48	122	40	49	70,5	76,6	173,6	65,5	G 1/2	M6	50	F05	9	13	kg 1,2
		Psi 7250	inch	2,24	0,93	3,19	1,89	4,80	1,57	1,93	2,78	3,02	6,83	2,58			1,97		0,35	0,51	lb 2,65
GE3 HC G 3/4	20	MPa 40	mm	65	27	98	62	151	40	55	85	89,6	194,6	50,6	G 3/4	M6	50	F05	14	20	kg 2
		Psi 5800	inch	2,56	1,06	3,86	2,44	5,94	1,57	2,17	3,35	3,53	7,66	1,99			1,97		0,55	0,79	lb 4,41
GE3 HC G 1	25	MPa 35	mm	75	33,5	106	66	151	40	65	97,7	89,6	204,6	80,6	G1	M6	50	F05	14	25	kg 2,572
		Psi 5075	inch	2,95	1,32	4,17	2,60	5,94	1,57	2,56	3,85	3,53	8,06	3,17			1,97		0,55	0,98	lb 5,67



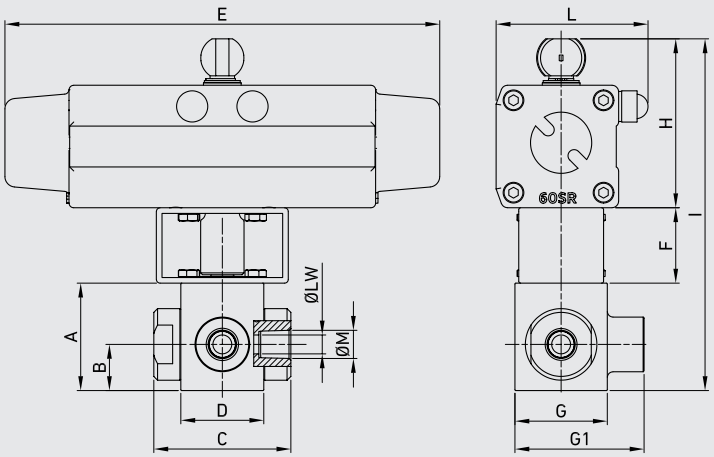
GE3 HC ANSI/ASME B1.20.1 NPT

TYPE	DN	PN		A	B	C	D	E	F	G	G1	H	I	L	ØM	ØS	ØT	ISO5211	SW	ØLW	WEIGHT
GE3 HC N 3/8	10	MPa 50	mm	57	24,5	73	44	122	40	49	68,5	76,6	173,6	65,5	N 3/8	M6	50	F05	9	10	kg 1,0610
		Psi 7250	inch	2,24	0,96	2,87	1,73	4,80	1,57	1,93	2,70	3,02	6,83	2,58			1,97		0,35	0,39	lb 2,34
GE3 HC N 1/2	13	MPa 50	mm	57	23,5	81	48	122	40	49	70,5	76,6	173,6	65,5	N1/2	M6	50	F05	9	13	kg 1,2
		Psi 7250	inch	2,24	0,93	3,19	1,89	4,80	1,57	1,93	2,78	3,02	6,83	2,58			1,97		0,35	0,51	lb 2,65
GE3 HC N 3/4	20	MPa 40	mm	65	27	98	62	151	40	55	85	89,6	194,6	50,6	N 3/4	M6	50	F05	14	20	kg 2
		Psi 5800	inch	2,56	1,06	3,86	2,44	5,94	1,57	2,17	3,35	3,53	7,66	1,99			1,97		0,55	0,79	lb 4,41
GE3 HC N 1	25	MPa 35	mm	75	33,5	106	66	151	40	65	97,7	89,6	204,6	80,6	N1	M6	50	F05	14	25	kg 2,572
		Psi 5075	inch	2,95	1,32	4,17	2,60	5,94	1,57	2,56	3,85	3,53	8,06	3,17			1,97		0,55	0,98	lb 5,67

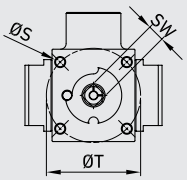


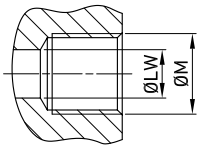
GE3 HC SAE J1926-1

TYPE	DN	PN		A	B	C	D	E	F	G	G1	H	I	L	ØM	ØS	ØT	ISO5211	SW	ØLW	WEIGHT
GE3 HC SAE6	10	MPa 50	mm	57	24,5	73	44	122	40	49	68,5	76,6	173,6	65,5	9/16 UNF	M6	50	F05	9	10	kg 1,0610
		Psi 7250	inch	2,24	0,96	2,87	1,73	4,80	1,57	1,93	2,70	3,02	6,83	2,58			1,97		0,35	0,39	lb 2,34
GE3 HC SAE8	13	MPa 50	mm	57	23,5	81	48	122	40	49	70,5	76,6	173,6	65,5	3/4 UNF	M6	50	F05	9	13	kg 1,2
		Psi 7250	inch	2,24	0,93	3,19	1,89	4,80	1,57	1,93	2,78	3,02	6,83	2,58			1,97		0,35	0,51	lb 2,65
GE3 HC SAE12	20	MPa 40	mm	65	27	98	62	151	40	55	85	89,6	194,6	50,6	1 1/16 UNF	M6	50	F05	14	20	kg 2
		Psi 5800	inch	2,56	1,06	3,86	2,44	5,94	1,57	2,17	3,35	3,53	7,66	1,99			1,97		0,55	0,79	lb 4,41
GE3 HC SAE16	25	MPa 35	mm	75	33,5	106	66	151	40	65	97,7	89,6	204,6	80,6	1 5/16 UNF	M6	50	F05	14	25	kg 2,572
		Psi 5075	inch	2,95	1,32	4,17	2,60	5,94	1,57	2,56	3,85	3,53	8,06	3,17			1,97		0,55	0,98	lb 5,67



CUSTOMIZED VALVES WITH SELECTED ACTUATORS SPRING RETURN

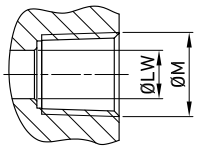




GE3 HC DIN/ISO 228 BSP

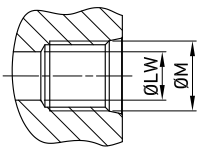
TYPE	DN	PN		A	B	C	D	E	F	G	G1	H	I	L	ØM	ØS	ØT	ISO5211	SW	ØLW	WEIGHT
GE3 HC G 3/8	10	MPa 50	mm	57	24,5	73	44	122	40	49	68,5	89,6	186,6	80,6	G 3/8	M6	50	F05	9	10	kg 1,0610
		Psi 7250	inch	2,24	0,96	2,87	1,73	4,80	1,57	1,93	2,70	3,53	7,35	3,17			1,97		0,35	0,39	lb 2,34
GE3 HC G 1/2	13	MPa 50	mm	57	23,5	81	48	122	40	49	70,5	89,6	186,6	80,6	G 1/2	M6	50	F05	9	13	kg 1,2
		Psi 7250	inch	2,24	0,93	3,19	1,89	4,80	1,57	1,93	2,78	3,53	7,35	3,17			1,97		0,35	0,51	lb 2,65
GE3 HC G 3/4	20	MPa 40	mm	65	27	98	62	151	40	55	85	105	210	80,6	G 3/4	M6	50	F05	14	20	kg 2
		Psi 5800	inch	2,56	1,06	3,86	2,44	5,94	1,57	2,17	3,35	4,13	8,27	3,17			1,97		0,55	0,79	lb 4,41
GE3 HC G 1	25	MPa 35	mm	75	33,5	106	66	151	40	65	97,7	105	220	96	G1	M6	50	F05	14	25	kg 2,572
		Psi 5075	inch	2,95	1,32	4,17	2,60	5,94	1,57	2,56	3,85	4,13	8,66	3,78			1,97		0,55	0,98	lb 5,67

The company reserves the right to operate dimensional changes without prior notice.



GE3 HC ANSI/ASME B1.20.1 NPT

TYPE	DN	PN		A	B	C	D	E	F	G	G1	H	I	L	ØM	ØS	ØT	ISO5211	SW	ØLW	WEIGHT
GE3 HC N 3/8	10	MPa 50	mm	57	24,5	73	44	122	40	49	68,5	89,6	186,6	80,6	N 3/8	M6	50	F05	9	10	kg 1,0610
		Psi 7250	inch	2,24	0,96	2,87	1,73	4,80	1,57	1,93	2,70	3,53	7,35	3,17			1,97		0,35	0,39	lb 2,34
GE3 HC N 1/2	13	MPa 50	mm	57	23,5	81	48	122	40	49	70,5	89,6	186,6	80,6	N1/2	M6	50	F05	9	13	kg 1,2
		Psi 7250	inch	2,24	0,93	3,19	1,89	4,80	1,57	1,93	2,78	3,53	7,35	3,17			1,97		0,35	0,51	lb 2,65
GE3 HC N 3/4	20	MPa 40	mm	65	27	98	62	151	40	55	85	105	210	80,6	N 3/4	M6	50	F05	14	20	kg 2
		Psi 5800	inch	2,56	1,06	3,86	2,44	5,94	1,57	2,17	3,35	4,13	8,27	3,17			1,97		0,55	0,79	lb 4,41
GE3 HC N 1	25	MPa 35	mm	75	33,5	106	66	151	40	65	97,7	105	220	96	N1	M6	50	F05	14	25	kg 2,572
		Psi 5075	inch	2,95	1,32	4,17	2,60	5,94	1,57	2,56	3,85	4,13	8,66	3,78			1,97		0,55	0,98	lb 5,67



GE3 HC SAE J1926-1

TYPE	DN	PN		A	B	C	D	E	F	G	G1	H	I	L	ØM	ØS	ØT	ISO5211	SW	ØLW	WEIGHT
GE3 HC SAE6	10	MPa 50	mm	57	24,5	73	44	122	40	49	68,5	89,6	186,6	80,6	9/16 UNF	M6	50	F05	9	10	kg 1,0610
		Psi 7250	inch	2,24	0,96	2,87	1,73	4,80	1,57	1,93	2,70	3,53	7,35	3,17			1,97		0,35	0,39	lb 2,34
GE3 HC SAE8	13	MPa 50	mm	57	23,5	81	48	122	40	49	70,5	89,6	186,6	80,6	3/4 UNF	M6	50	F05	9	13	kg 1,2
		Psi 7250	inch	2,24	0,93	3,19	1,89	4,80	1,57	1,93	2,78	3,53	7,35	3,17			1,97		0,35	0,51	lb 2,65
GE3 HC SAE12	20	MPa 40	mm	65	27	98	62	151	40	55	85	105	210	80,6	1 1/16 UNF	M6	50	F05	14	20	kg 2
		Psi 5800	inch	2,56	1,06	3,86	2,44	5,94	1,57	2,17	3,35	4,13	8,27	3,17			1,97		0,55	0,79	lb 4,41
GE3 HC SAE16	25	MPa 35	mm	75	33,5	106	66	151	40	65	97,7	105	220	96	1 5/16 UNF	M6	50	F05	14	25	kg 2,572
		Psi 5075	inch	2,95	1,32	4,17	2,60	5,94	1,57	2,56	3,85	4,13	8,66	3,78			1,97		0,55	0,98	lb 5,67