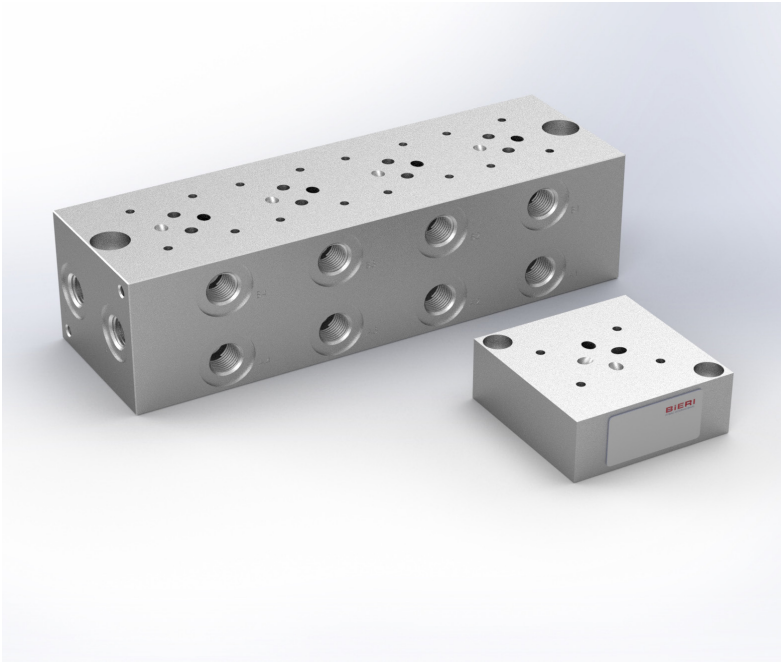
BIERI
HYDAC INTERNATIONAL

Subplates/ multi-station subplates/ end plates

Type AP700/RP700/ EP700

NG 6 ISO
up to 25 l/min, up to **700 bar**



Features

- Subplates (AP) and multi-station subplates (RP) with threaded connections
- End plates (EP)
- Compact control design with up to six control circuits (see product information multi-station subplates, page 4) possible

Applications

- Basic elements for the build up of hydraulic circuits

Design

- All control lines with common pressure (P) and tank connection (T)
- User ports (A and B) are situated on the side of the plate

Technical data

Hydraulic fluid	mineral oil according to DIN 51524 (other fluids on request)
Fluid temperature range	– 20 bis 80 °C
Ambient temperature range	– 30 to 50 °C
Viscosity range	5 to 400 mm^2/s
Porting	NG 6 according to DIN 24340 / ISO 4401 / CETOP RP 121 H
Max. operating pressure connection P, A, B	700 bar with G3/8” connection thread 500 bar with G1/2” connection thread
Max. operating pressure connection T	350 bar
Max. flow rate	25 l/min
Filtration (recommendation)	according to NAS 1638 class 6 resp. ISO/DIN 4406 17/15/12
Weight	see overview “Product information”
Material	steel, stainless, galvanized

Type code

Example **AP** | **700** | - | **6** | - | **A1** | - | **B** | | **00**

Subplates	AP	
Size	700 bar	
Nominal Size	6	
Design	A1	connection below
	A2	Side connection
	A4	Side connection A+B, P+T below, bore for pressure relief valve P - T

Design
00 ... 99
For internal purposes

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Design revision
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Example **RP** | **700** | - | **6** | - | **R2G3/8** | - | **B** | | **00**

Multi-station subplates	RP	
Size	700 bar	
	500 bar	
Nominal Size	6	
Design	R2...	2 control lines
	R3...	3 control lines
	R4...	4 control lines
	R5...	5 control lines
	R6...	6 control lines
	... G3/8	port P and T (700 bar)
	... G1/2	port P and T (500 bar)

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Example **EP** | **700** | - | **6** | - | **Z** | - | **V** | - | **B** | | **00**

End plates	EP	
Size	700 bar	
Nominal Size	6	
Design	Z	P, A, B and T closed
Seal material	V	FKM
	other seals materials on request	

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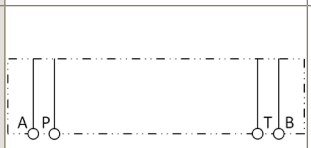
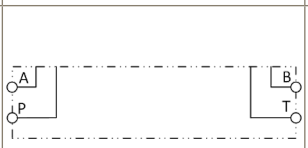
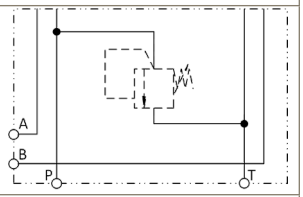
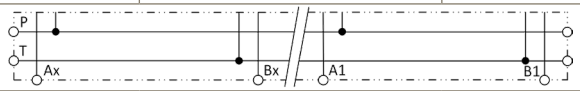
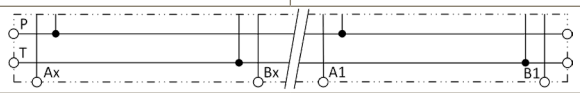
Product information

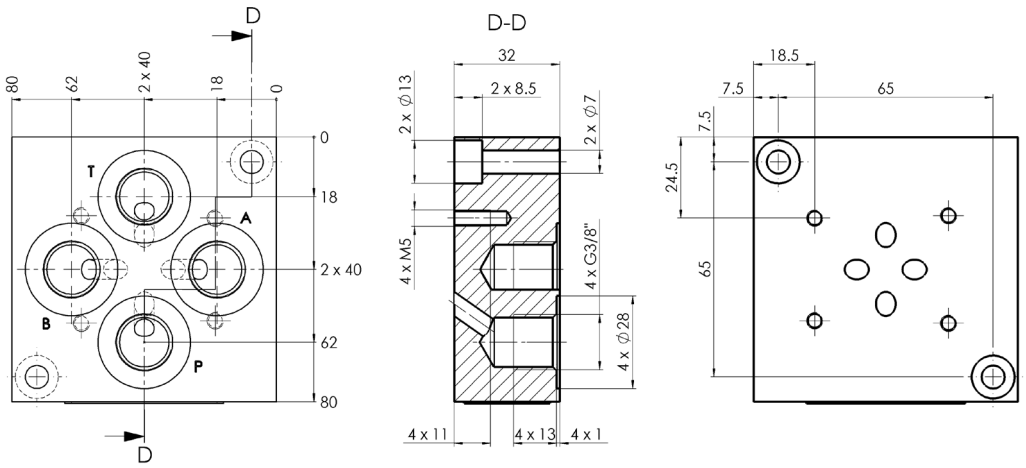
Plate type	**AP**		
Design	**A1**	**A2**	**A4**
Part No.	3641449	3647854	4733288 [1]
Symbol			
Weight	1,5 kg	1,5 kg	1,5 kg
Plate type	**RP**		
Design	**R2**	**R3**	**R4**
Part No. G3/8 (700 bar)	on request	on request	on request
Symbol			
Weight	5,5 kg	7,5 kg	9,5 kg
Plate type	**RP**		
Design	**R5**	**R6**	
Part No. G3/8 (700 bar)	on request	on request	
Symbol			
Weight	11,5 kg	13,5 kg	
Plate type	**EP**		
Design	**Z**		
Part No.	4673155		
Symbol			
Weight	0,4 kg		

1) Pressure relief valve has to be ordered seperately (see technical data sheet DB500-700-1000)!

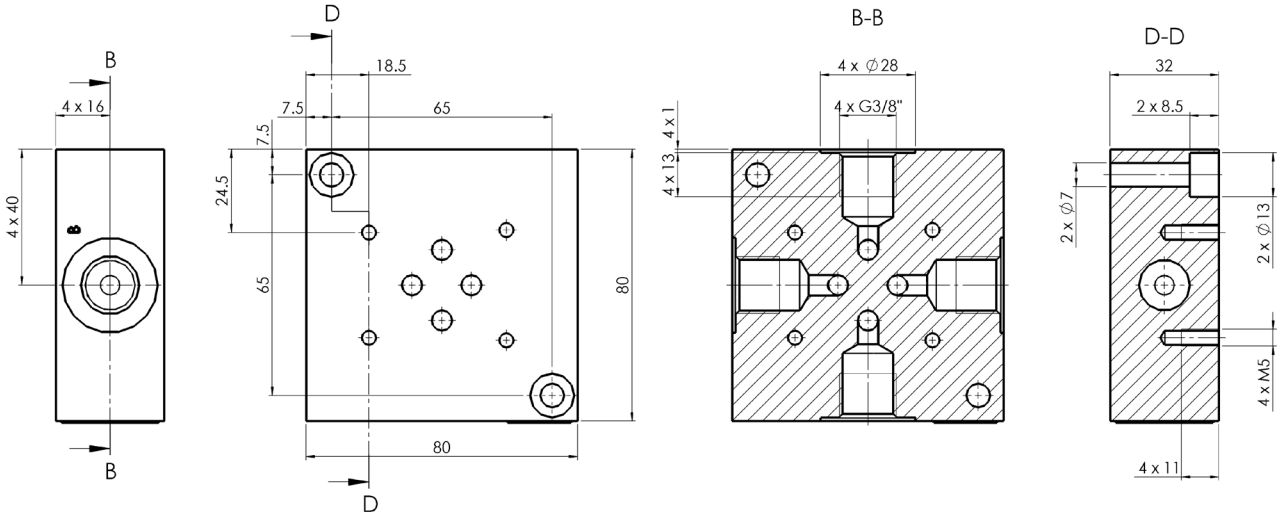
Dimensional drawings

AP700

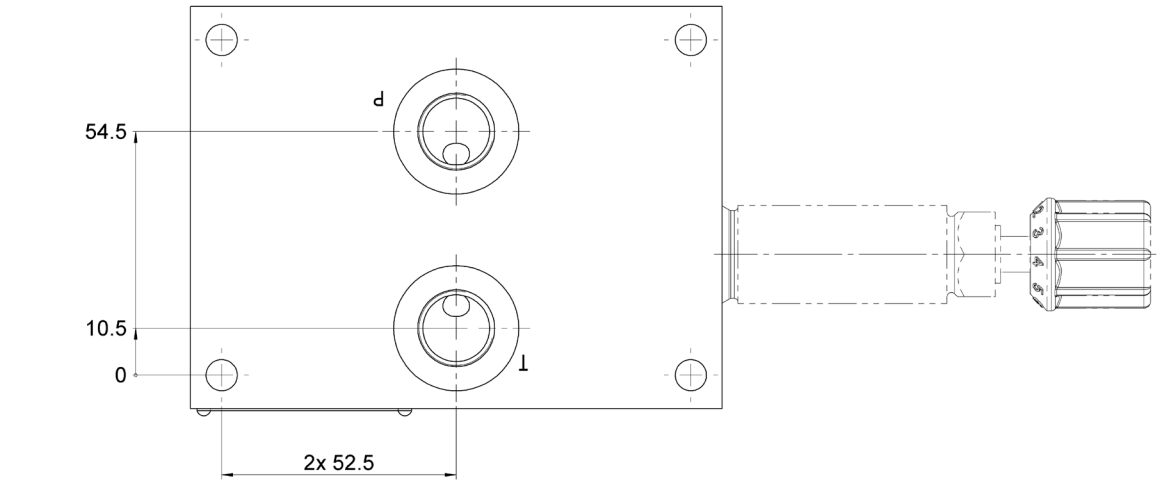
A1

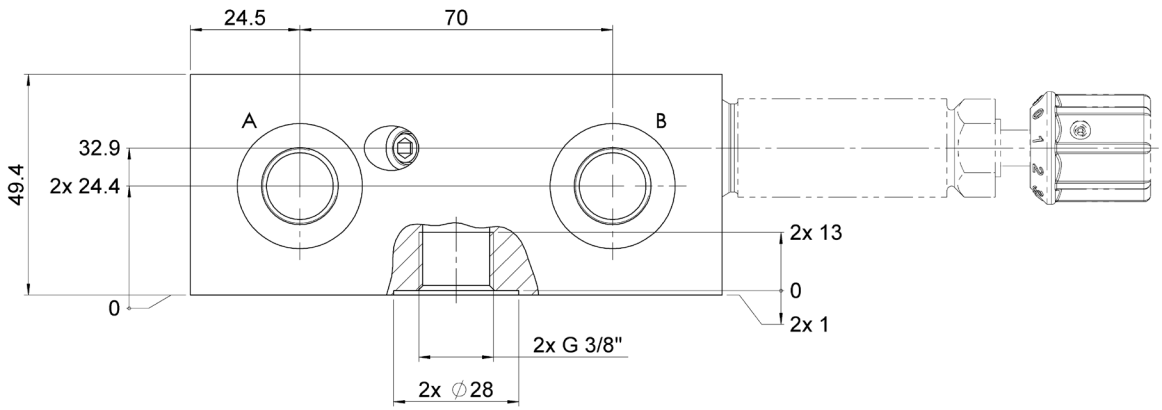


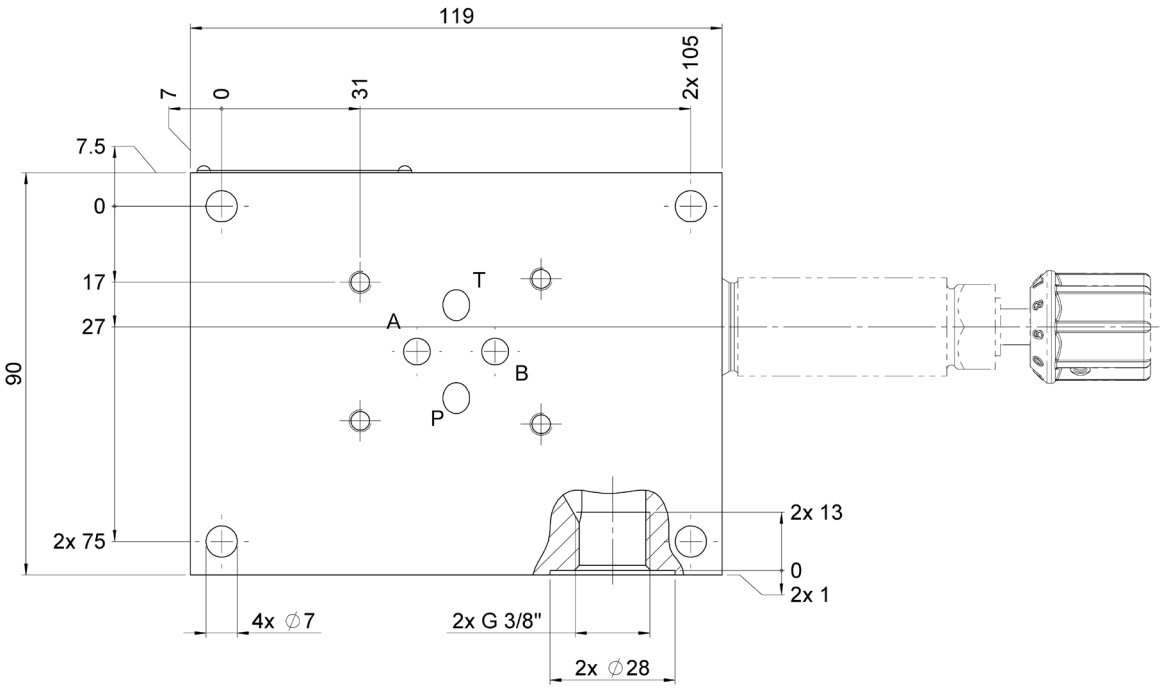
A2



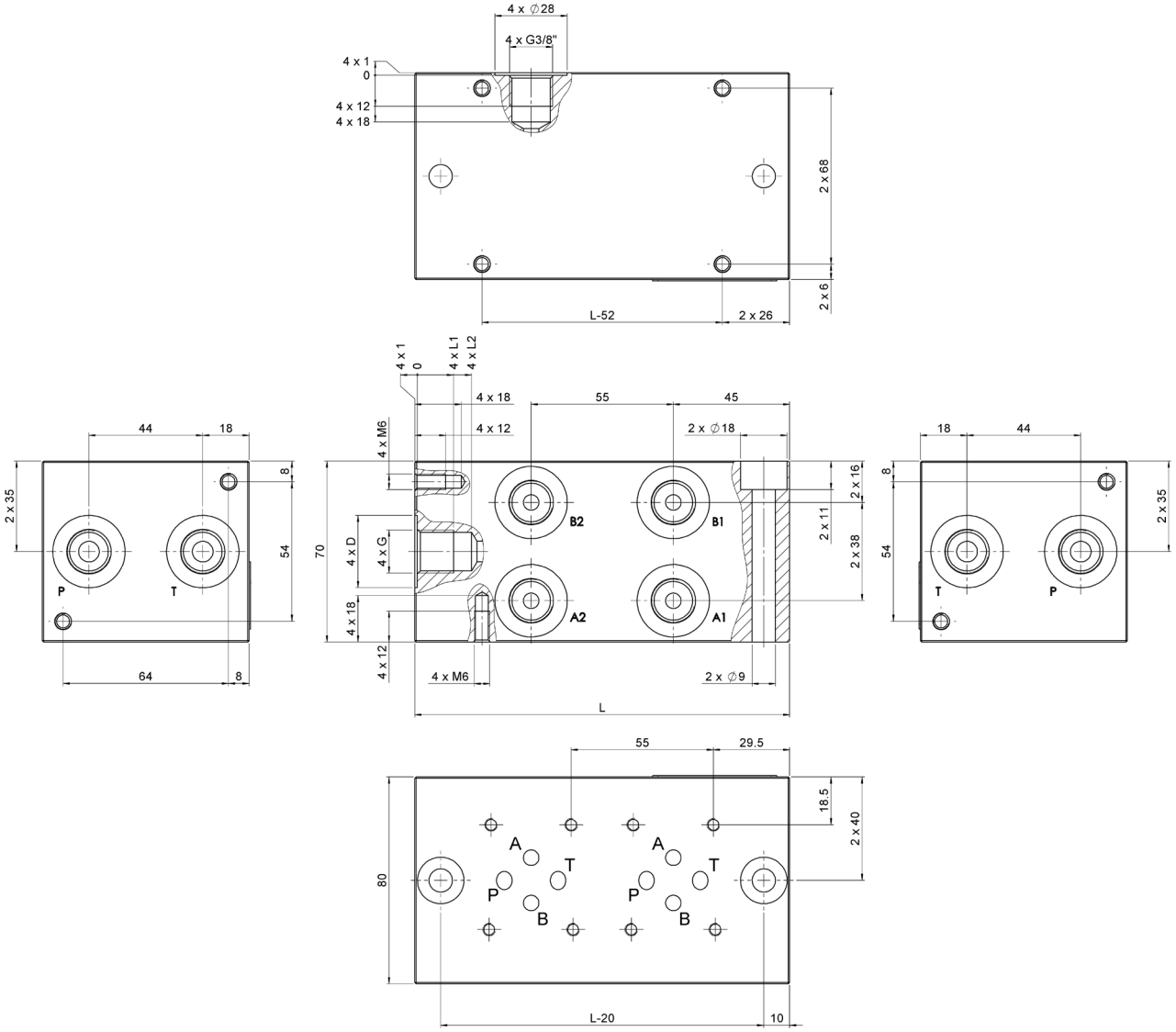
A4


P
T
54.5
10.5
0
2x 52.5


24.5
70
A
B
32.9
2x 24.4
49.4
0
2x 13
0
2x 1
2x G 3/8"
2x ∅28

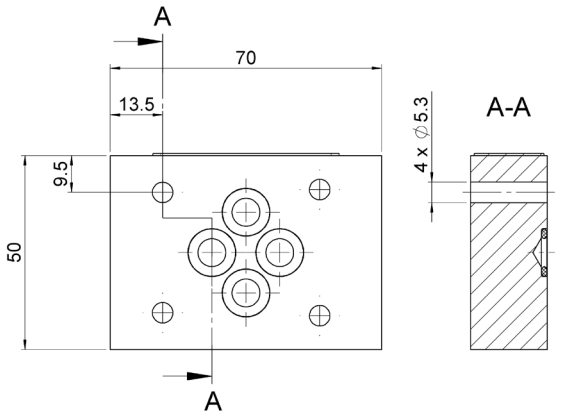

119
2x 105
7
0
31
7.5
0
17
27
90
T
A
B
P
2x 75
2x 13
0
2x 1
4x ∅7
2x G 3/8"
2x ∅28

RP700/ RP500



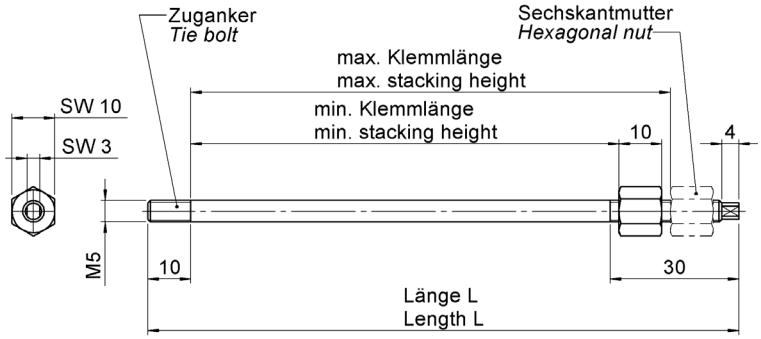
type description	Dim. G [“]	Dim. D [mm]	Dim. L1 [mm]	Dim. L2 [mm]	Dim. L [mm]
RP500-6-R2G1/2-B*00	G1/2	34	15	22	145
RP500-6-R3G1/2-B*00	G1/2	34	15	22	200
RP500-6-R4G1/2-B*00	G1/2	34	15	22	255
RP500-6-R5G1/2-B*00	G1/2	34	15	22	310
RP500-6-R6G1/2-B*00	G1/2	34	15	22	365
RP700-6-R2G3/8-B*00	G3/8	28	14	21	145
RP700-6-R3G3/8-B*00	G3/8	28	14	21	200
RP700-6-R4G3/8-B*00	G3/8	28	14	21	255
RP700-6-R5G3/8-B*00	G3/8	28	14	21	310
RP700-6-R6G3/8-B*00	G3/8	28	14	21	365

EP700

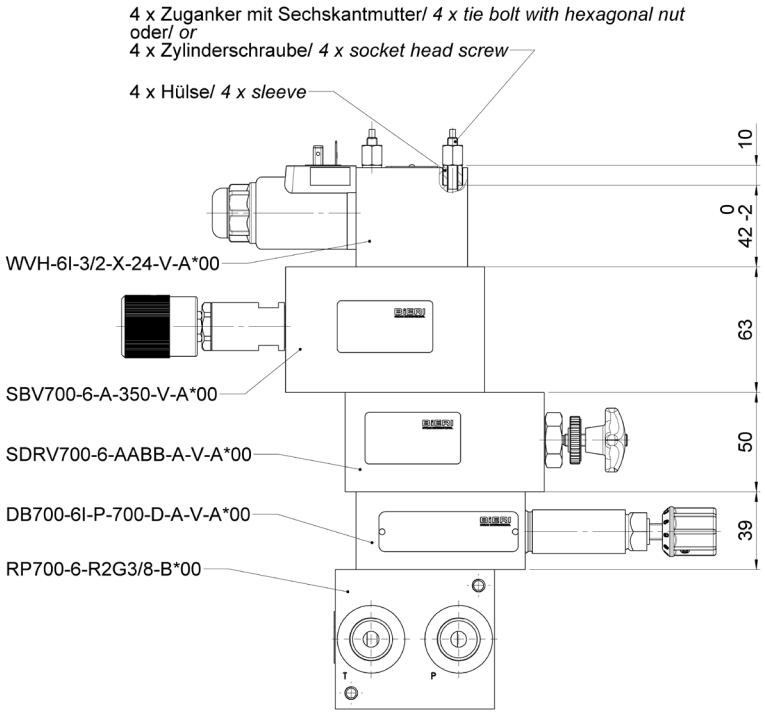


Note: For each plate are 4 pcs. O-Rings, 9,25x1,78 mm, 90° ShA included!
The connections P, A, B und T are closed!

Sandwich arrangement



Calculation example tie bolt length



Stacking height = 10+42+63+50+39 = **204 mm**
L (Tie bolt length) = **236 mm** (from the tie bolt-table page 8)

Mounting elements

In order to achieve proper functioning of the sandwich arrangement, the hexagon nuts must be tightened without twisting the tie bolts. To do this, hold the tie bolt against the intended spanner flat using an open-end spanner.
4 pce. socket head screws or tie bolts with hexagonal nut (and sleeve) have to be used!

Socket head screws
ISO 4762-M5 x L-12.9/ tightening torque = 10 Nm

stacking height [mm]	length L [mm]	part no.
20-23	30	604592
50–53	60	618287
55–58	65	6087369
60–63	70	6008834
65–68	75	684509
70–73	80	602854
78–83	90	602855
90–93	100	6026686
94-103	110	6032160

Tie bolts
M5 x L-12.9/ tightening torque = 10 Nm

stacking height [mm]	length L [mm]	part no.
100–113	138	3661156
114–127	152	3689062
128–141	166	3689064
142–155	180	3689076
156–169	194	3689079
170–183	208	3689080
184–197	222	3689081
198–211	236	3689082
212–224	249	3689083
225–237	262	3689084
238–250	275	3689085

Hexagonal nut
1x M5 x 2d-12, part no. 3661157

Sleeve
1x part no. 4691661 (is required for tie bolt-valve banks with WVH-6I and WVM-6I directional poppet valves)

Bieri Hydraulik AG
Könizstrasse 274
CH-3097 Liebefeld
Tel. +41 31 970 09 09 | Fax +41 31 970 09 10
info@bierihydraulics.com | www.bierihydraulics.com

The information in this brochure relates to the operating conditions and applications described.
For applications and operating conditions not described, please contact the relevant technical department.
Subject to technical modifications.