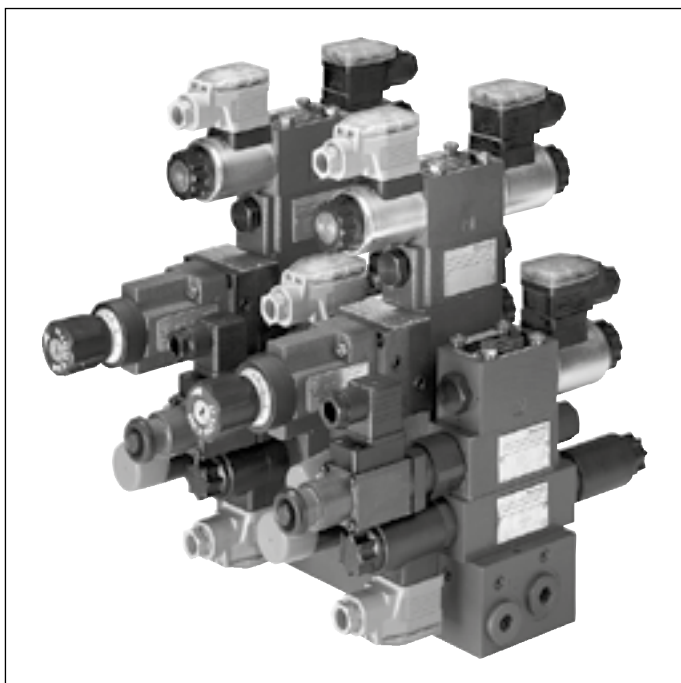


Manifolds

Type HSR 06



- Size 6
- Component series 25 and 35
- Maximum operating pressure 315 (350) bar
- 1 ... 10 stations

Features

- Base element for ready-for-connection controls in vertical stacking design
- Compact hydraulic controls
- Common pump line
- Common tank line
- Separate actuator ports of the stations
- Measuring ports in the actuator cables, optional
- Mounting of sandwich plates and valves of size 6

Contents

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Ordering code

	01	02	03	04	05	06	07	08	09
Manifold		HSR	06	–	/	01			

Number of ready-for-connection controls in vertical stacking design

01	1 control	1
	2 controls	2
	3 controls	3
	4 controls	4
	5 controls	5
	6 controls	6
	7 controls	7
	8 controls	8
	9 controls	9
	10 controls	10
02	Manifold	HSR
03	Size 6	06

Component series

04	Port size: A, B = G3/8; P, T = G1/2	25
	With enlarged connection thread; port size: A, B = G1/2; P, T = G3/4	35

Connection thread

05	Pipe thread according to DIN EN ISO 228-1	01
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Position of actuator ports

06	Lateral	C
	Bottom	D

Maximum pressure

07	315 bar	No code
	350 bar	/350³⁾

Position of actuator ports

08	Standard	no code
	With measuring ports in A and B	SO8¹⁾

Coating

09	Phosphate coating DIN EN ISO 9717	PHOSPHATED²⁾
	Galvanic coating DIN EN ISO 19598	FE//ZN8//CN/T0

¹⁾ Not possible with component series 25 with lateral actuator ports

³⁾ Only for series 35 with and without SO8, further on request

²⁾ Standard version (manganese or zinc phosphate coating)

Description

- ▶ Manifolds are the base element for ready-for-connection controls in vertical stacking design
- ▶ Manifolds of NG6 are available with 1 to 10 stations
- ▶ On each station, highly compact hydraulic controls can be built using vertically stackable sandwich plate valves in connection with on/off or proportional servo valves of NG6
- ▶ All stations have a common pump and tank port

- ▶ Ports P and T are led through the two front sides of the manifold
- ▶ Every station is equipped with separate actuator ports A and B
- ▶ Actuator ports are optionally located at the bottom or laterally
- ▶ Another option are measuring ports in the actuator ports A and B

Standard program: HSR 06

Coating	Measuring port	Number of mounting positions	Port size P, T	Porting pattern A, B	Port size A, B	Material no.	Type key Manifold...	Maximum pressure in bar	Weight in kg
Phosphated	without	1	G1/2	lateral	G3/8	R900815077	1HSR06-25/01C PHOSPHATED	315	1.9
		2	G1/2	lateral	G3/8	R900172220	2HSR06-25/01C PHOSPHATED	315	3.6
				bottom		R900172199	2HSR06-25/01D PHOSPHATED	315	3.8
			G3/4	lateral	G1/2	R901552653	2HSR06-35/01C/350 PHOSPHATED	350	7.7
				bottom		R901552751	2HSR06-35/01D/350 PHOSPHATED	350	6.5
		3	G1/2	lateral	G3/8	R900172221	3HSR06-25/01C PHOSPHATED	315	5.2
				bottom		R900172200	3HSR06-25/01D PHOSPHATED	315	5.5
			G3/4	lateral	G1/2	R901552654	3HSR06-35/01C/350 PHOSPHATED	350	9.5
				bottom		R901552752	3HSR06-35/01D/350 PHOSPHATED	350	10
		4	G1/2	lateral	G3/8	R900172222	4HSR06-25/01C PHOSPHATED	315	6.9
				bottom		R900172201	4HSR06-25/01D PHOSPHATED	315	8.6
			G3/4	lateral	G1/2	R901552655	4HSR06-35/01C/350 PHOSPHATED	350	12.5
				bottom		R901552753	4HSR06-35/01D/350 PHOSPHATED	350	13.3
		5	G1/2	lateral	G3/8	R900172223	5HSR06-25/01C PHOSPHATED	315	10
				bottom		R900172202	5HSR06-25/01D PHOSPHATED	315	9
			G3/4	lateral	G1/2	R901552656	5HSR06-35/01C/350 PHOSPHATED	350	18.2
				bottom		R901552754	5HSR06-35/01D/350 PHOSPHATED	350	16.5
		6	G1/2	lateral	G3/8	R900172224	6HSR06-25/01C PHOSPHATED	315	11.9
				bottom		R900172203	6HSR06-25/01D PHOSPHATED	315	10.7
			G3/4	lateral	G1/2	R901552657	6HSR06-35/01C/350 PHOSPHATED	350	18.5
				bottom		R901552755	6HSR06-35/01D/350 PHOSPHATED	350	19
		7	G1/2	lateral	G3/8	R900172225	7HSR06-25/01C PHOSPHATED	315	11.7
				bottom		R900172204	7HSR06-25/01D PHOSPHATED	315	12.6
			G3/4	lateral	G1/2	R901552658	7HSR06-35/01C/350 PHOSPHATED	350	25.2
				bottom		R901552756	7HSR06-35/01D/350 PHOSPHATED	350	22
		8	G1/2	lateral	G3/8	R900172226	8HSR06-25/01C PHOSPHATED	315	13.3
				bottom		R900172205	8HSR06-25/01D PHOSPHATED	315	14.2
			G3/4	lateral	G1/2	R901552659	8HSR06-35/01C/350 PHOSPHATED	350	28.5
				bottom		R901552757	8HSR06-35/01D/350 PHOSPHATED	350	25.5
		9	G1/2	lateral	G3/8	R900809778	9HSR06-25/01C PHOSPHATED	315	15
				bottom		R900808525	9HSR06-25/01D PHOSPHATED	315	16
			G3/4	lateral	G1/2	R901552660	9HSR06-35/01C/350 PHOSPHATED	350	32
				bottom		R901552758	9HSR06-35/01D/350 PHOSPHATED	350	29
		10	G1/2	lateral	G3/8	R900804259	10HSR06-25/01C PHOSPHATED	315	19.6
				bottom		R900800927	10HSR06-25/01D PHOSPHATED	315	17.9
			G3/4	lateral	G1/2	R901552661	10HSR06-35/01C/350 PHOSPHATED	350	35.8
				bottom		R901552759	10HSR06-35/01D/350 PHOSPHATED	350	32

Standard program: HSR 06

Coating	Measuring port	Number of mounting positions	Port size P, T	Porting pattern A, B	Port size A, B	Material no.	Type key Manifold...	Maximum pressure in bar	Weight in kg
Galvanized and thick film passivated	without	1	G1/2	lateral	G3/8	R901423011	1HSR06-25/01C FE//ZN8//CN/T0	315	1.9
		2	G1/2	lateral	G3/8	R901365999	2HSR06-25/01C FE//ZN8//CN/T0	315	3.6
				bottom		R901375947	2HSR06-25/01D FE//ZN8//CN/T0	315	3.8
			G3/4	lateral	G1/2	R901552671	2HSR06-35/01C/350 FE//ZN8//CN/T0	350	7.7
				bottom		R901552771	2HSR06-35/01D/350 FE//ZN8//CN/T0	350	6.5
		3	G1/2	lateral	G3/8	R901366222	3HSR06-25/01C FE//ZN8//CN/T0	315	5.2
				bottom		R901375948	3HSR06-25/01D FE//ZN8//CN/T0	315	5.5
			G3/4	lateral	G1/2	R901552672	3HSR06-35/01C/350 FE//ZN8//CN/T0	350	9.5
				bottom		R901552787	3HSR06-35/01D/350 FE//ZN8//CN/T0	350	10
		4	G1/2	lateral	G3/8	R901366238	4HSR06-25/01C FE//ZN8//CN/T0	315	6.9
				bottom		R901375949	4HSR06-25/01D FE//ZN8//CN/T0	315	8.6
			G3/4	lateral	G1/2	R901552673	4HSR06-35/01C/350 FE//ZN8//CN/T0	350	12.5
				bottom		R901552788	4HSR06-35/01D/350 FE//ZN8//CN/T0	350	13.3
		5	G1/2	lateral	G3/8	R901366483	5HSR06-25/01C FE//ZN8//CN/T0	315	10
				bottom		R901375950	5HSR06-25/01D FE//ZN8//CN/T0	315	9
			G3/4	lateral	G1/2	R901552674	5HSR06-35/01C/350 FE//ZN8//CN/T0	350	18.2
				bottom		R901552789	5HSR06-35/01D/350 FE//ZN8//CN/T0	350	16.5
		6	G1/2	lateral	G3/8	R901377479	6HSR06-25/01C FE//ZN8//CN/T0	315	11.9
				bottom		R901375951	6HSR06-25/01D FE//ZN8//CN/T0	315	10.7
			G3/4	lateral	G1/2	R901552675	6HSR06-35/01C/350 FE//ZN8//CN/T0	350	18.5
				bottom		R901552790	6HSR06-35/01D/350 FE//ZN8//CN/T0	350	19
		7	G1/2	lateral	G3/8	R901366226	7HSR06-25/01C FE//ZN8//CN/T0	315	11.7
				bottom		R901151326	7HSR06-25/01D FE//ZN8//CN/T0	315	12.6
			G3/4	lateral	G1/2	R901552676	7HSR06-35/01C/350 FE//ZN8//CN/T0	350	25.2
				bottom		R901552791	7HSR06-35/01D/350 FE//ZN8//CN/T0	350	22
		8	G1/2	lateral	G3/8	R901377482	8HSR06-25/01C FE//ZN8//CN/T0	315	13.3
				bottom		R901377476	8HSR06-25/01D FE//ZN8//CN/T0	315	14.2
			G3/4	lateral	G1/2	R901552677	8HSR06-35/01C/350 FE//ZN8//CN/T0	350	28.5
				bottom		R901552792	8HSR06-35/01D/350 FE//ZN8//CN/T0	350	25.5
		9	G1/2	lateral	G3/8	R901149557	9HSR06-25/01C FE//ZN8//CN/T0	315	15
				bottom		R901151382	9HSR06-25/01D FE//ZN8//CN/T0	315	16
			G3/4	lateral	G1/2	R901552678	9HSR06-35/01C/350 FE//ZN8//CN/T0	350	32
				bottom		R901552793	9HSR06-35/01D/350 FE//ZN8//CN/T0	350	29
		10	G1/2	lateral	G3/8	R901386722	10HSR06-25/01C FE//ZN8//CN/T0	315	19.6
				bottom		R901417400	10HSR06-25/01D FE//ZN8//CN/T0	315	17.9
			G3/4	lateral	G1/2	R901552679	10HSR06-35/01C/350 FE//ZN8//CN/T0	350	35.8
				bottom		R901552794	10HSR06-35/01D/350 FE//ZN8//CN/T0	350	32

Order example for a manifold with galvanic coating, approved for 350 bar:
 Manifold 9HSR06-35/01C/350 FE//ZN8//CN/T0

Standard program: HSR 06...SO08

Coating	Measuring port	Number of mounting positions	Port size P, T	Porting pattern A, B	Port size A, B	Material no.	Type key Manifold...	Maximum pressure in bar	Weight in kg
Phosphated	mit	1	G1/2	bottom	G3/8	R900815078	1HSR06-25/01D SO8 PHOSPHATED	315	2.5
			G3/4	lateral	G1/2	R901552700	1HSR06-35/01C/350 SO8 PHOSPHATED	350	3.7
				bottom		R901552829	1HSR06-35/01D/350 SO8 PHOSPHATED	350	3.3
		2	G1/2	bottom	G3/8	R900644674	2HSR06-25/01D SO8 PHOSPHATED	315	3.7
			G3/4	lateral	G1/2	R901552702	2HSR06-35/01C/350 SO8 PHOSPHATED	350	7.7
				bottom		R901552830	2HSR06-35/01D/350 SO8 PHOSPHATED	350	6.5
		3	G1/2	bottom	G3/8	R900644675	3HSR06-25/01D SO8 PHOSPHATED	315	5.3
			G3/4	lateral	G1/2	R901552703	3HSR06-35/01C/350 SO8 PHOSPHATED	350	9.5
				bottom		R901552831	3HSR06-35/01D/350 SO8 PHOSPHATED	350	10
		4	G1/2	bottom	G3/8	R900644676	4HSR06-25/01D SO8 PHOSPHATED	315	7.1
			G3/4	lateral	G1/2	R901552704	4HSR06-35/01C/350 SO8 PHOSPHATED	350	12.5
				bottom		R901552832	4HSR06-35/01D/350 SO8 PHOSPHATED	350	13.3
		5	G1/2	bottom	G3/8	R900644677	5HSR06-25/01D SO8 PHOSPHATED	315	8.8
			G3/4	lateral	G1/2	R901552705	5HSR06-35/01C/350 SO8 PHOSPHATED	350	18.2
				bottom		R901552833	5HSR06-35/01D/350 SO8 PHOSPHATED	350	16.5
		6	G1/2	bottom	G3/8	R900644678	6HSR06-25/01D SO8 PHOSPHATED	315	10.5
			G3/4	lateral	G1/2	R901552706	6HSR06-35/01C/350 SO8 PHOSPHATED	350	18.5
				bottom		R901552834	6HSR06-35/01D/350 SO8 PHOSPHATED	350	19
		7	G1/2	bottom	G3/8	R900644679	7HSR06-25/01D SO8 PHOSPHATED	315	12.2
			G3/4	lateral	G1/2	R901552707	7HSR06-35/01C/350 SO8 PHOSPHATED	350	25.2
				bottom		R901552835	7HSR06-35/01D/350 SO8 PHOSPHATED	350	22
		8	G1/2	bottom	G3/8	R900644680	8HSR06-25/01D SO8 PHOSPHATED	315	14
			G3/4	lateral	G1/2	R901552708	8HSR06-35/01C/350 SO8 PHOSPHATED	350	28.5
				bottom		R901552836	8HSR06-35/01D/350 SO8 PHOSPHATED	350	25.5
		9	G1/2	bottom	G3/8	R901406279	9HSR06-25/01D SO8 PHOSPHATED	315	15.5
			G3/4	lateral	G1/2	R901552709	9HSR06-35/01C/350 SO8 PHOSPHATED	350	32
				bottom		R901552837	9HSR06-35/01D/350 SO8 PHOSPHATED	350	29
		10	G1/2	bottom	G3/8	R900811950	10HSR06-25/01D SO8 PHOSPHATED	315	17.2
			G3/4	lateral	G1/2	R901552710	10HSR06-35/01C/350 SO8 PHOSPHATED	350	35.8
				bottom		R901552839	10HSR06-35/01D/350 SO8 PHOSPHATED	350	32

Standard program: HSR 06...SO08

Coating	Measuring port	Number of mounting positions	Port size P, T	Porting pattern A, B	Port size A, B	Material no.	Type key Manifold...	Maximum pressure in bar	Weight in kg
Galvanized and thick film passivated	mit	1	G1/2	bottom	G3/8	R901386544	1HSR06-25/01D SO8 FE//ZN8//CN/T0	315	2.5
			G3/4	lateral	G1/2	R901552721	1HSR06-35/01C/350 SO8 FE//ZN8//CN/T0	350	3.7
				bottom		R901552850	1HSR06-35/01D/350 SO8 FE//ZN8//CN/T0	350	3.3
		2	G1/2	bottom	G3/8	R901377105	2HSR06-25/01D SO8 FE//ZN8//CN/T0	315	3.7
			G3/4	lateral	G1/2	R901552722	2HSR06-35/01C/350 SO8 FE//ZN8//CN/T0	350	7.7
				bottom		R901552851	2HSR06-35/01D/350 SO8 FE//ZN8//CN/T0	350	6.5
		3	G1/2	bottom	G3/8	R901386545	3HSR06-25/01D SO8 FE//ZN8//CN/T0	315	5.3
			G3/4	lateral	G1/2	R901552723	3HSR06-35/01C/350 SO8 FE//ZN8//CN/T0	350	9.5
				bottom		R901552852	3HSR06-35/01D/350 SO8 FE//ZN8//CN/T0	350	10
		4	G1/2	bottom	G3/8	R901387654	4HSR06-25/01D SO8 FE//ZN8//CN/T0	315	7.1
			G3/4	lateral	G1/2	R901552724	4HSR06-35/01C/350 SO8 FE//ZN8//CN/T0	350	12.5
				bottom		R901552853	4HSR06-35/01D/350 SO8 FE//ZN8//CN/T0	350	13.3
		5	G1/2	bottom	G3/8	R901386546	5HSR06-25/01D SO8 FE//ZN8//CN/T0	315	8.8
			G3/4	lateral	G1/2	R901552725	5HSR06-35/01C/350 SO8 FE//ZN8//CN/T0	350	18.2
				bottom		R901552854	5HSR06-35/01D/350 SO8 FE//ZN8//CN/T0	350	16.5
		6	G1/2	bottom	G3/8	R901383268	6HSR06-25/01D SO8 FE//ZN8//CN/T0	315	10.5
			G3/4	lateral	G1/2	R901552726	6HSR06-35/01C/350 SO8 FE//ZN8//CN/T0	350	18.5
				bottom		R901552855	6HSR06-35/01D/350 SO8 FE//ZN8//CN/T0	350	19
		7	G1/2	bottom	G3/8	R901379102	7HSR06-25/01D SO8 FE//ZN8//CN/T0	315	12.2
			G3/4	lateral	G1/2	R901552727	7HSR06-35/01C/350 SO8 FE//ZN8//CN/T0	350	25.2
				bottom		R901552856	7HSR06-35/01D/350 SO8 FE//ZN8//CN/T0	350	22
		8	G1/2	bottom	G3/8	R901383978	8HSR06-25/01D SO8 FE//ZN8//CN/T0	315	14
			G3/4	lateral	G1/2	R901552728	8HSR06-35/01C/350 SO8 FE//ZN8//CN/T0	350	28.5
				bottom		R901552857	8HSR06-35/01D/350 SO8 FE//ZN8//CN/T0	350	25.5
		9	G1/2	bottom	G3/8	R901383971	9HSR06-25/01D SO8 FE//ZN8//CN/T0	315	15.5
			G3/4	lateral	G1/2	R901552729	9HSR06-35/01C/350 SO8 FE//ZN8//CN/T0	350	32
				bottom		R901552858	9HSR06-35/01D/350 SO8 FE//ZN8//CN/T0	350	29
		10	G1/2	bottom	G3/8	R901386547	10HSR06-25/01D SO8 FE//ZN8//CN/T0	315	17.2
			G3/4	lateral	G1/2	R901552730	10HSR06-35/01C/350 SO8 FE//ZN8//CN/T0	350	35.8
				bottom		R901552859	10HSR06-35/01D/350 SO8 FE//ZN8//CN/T0	350	32

Order example for a manifold with galvanic coating, approved for 350 bar:**Manifold 9HSR06-35/01C/350 SO8 FE//ZN8//CN/T0**

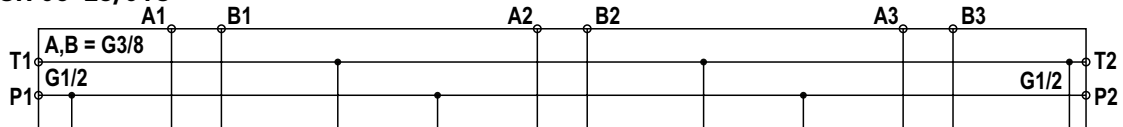
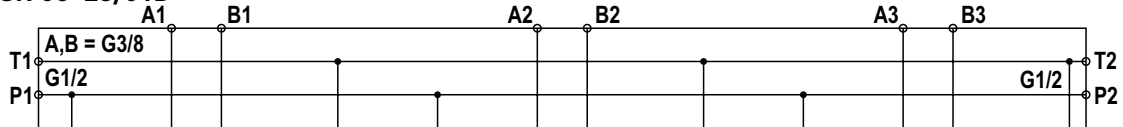
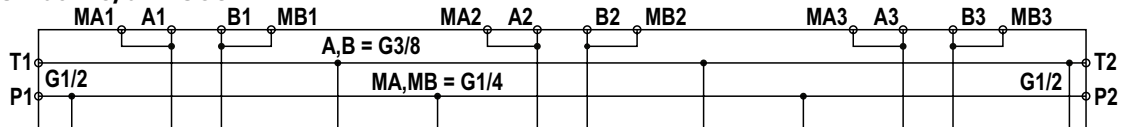
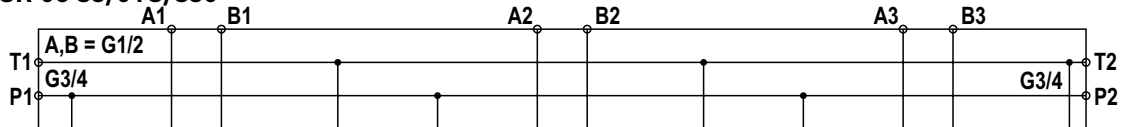
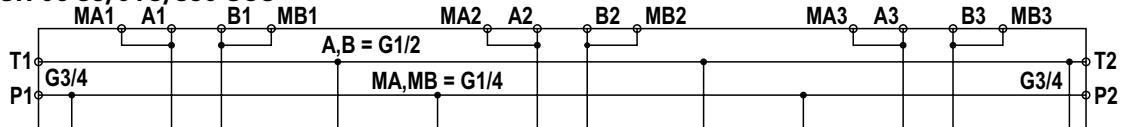
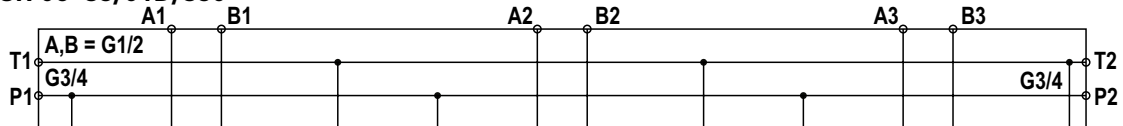
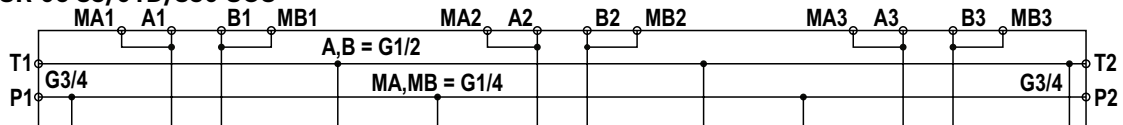
Technical data

(For applications outside these values, please consult us!)

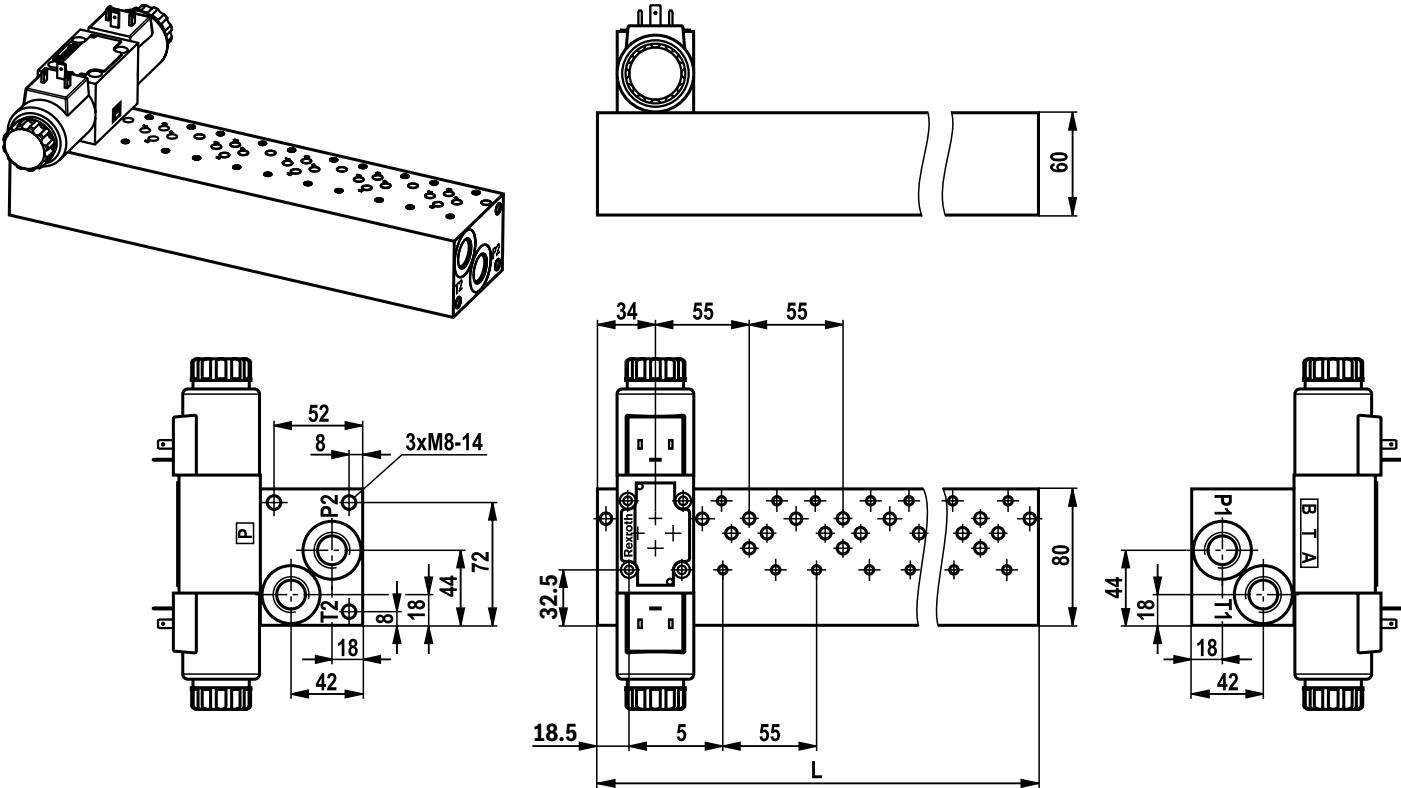
General	
Size	6
Material	GGG40
Surface coating	Phosphate coating ¹⁾ according to DIN EN ISO 9717 with after-treatment (greases, oils, lubricants) Galvanic coating according to DIN EN ISO 19598 – Galvanized and thick film passivated
Hydraulic fluid	Hydraulic oils HL, HLP, HVLP according to DIN 51524 For further information refer to data sheet 90220. For other hydraulic fluids, please contact us
Maximum operating pressure ²⁾	bar See tables on page 3 ... 6

¹⁾ Manganese or zinc phosphate coating²⁾ Manifold without valve fitting**Notice:**

For the assembly, commissioning and maintenance of hydraulic systems, see data sheet 07900

Schematic circuit diagram: Manifolds with 3 stations**Manifold HSR 06 -25/01C****Manifold HSR 06 -25/01D****Manifold HSR 06 -25/01D SO8****Manifold HSR 06-35/01C/350****Manifold HSR 06-35/01C/350 SO8****Manifold HSR 06 -35/01D/350****Manifold HSR 06-35/01D/350 SO8**

Dimensions: Version "2 ... 10..25/01C"
(dimensions in mm)



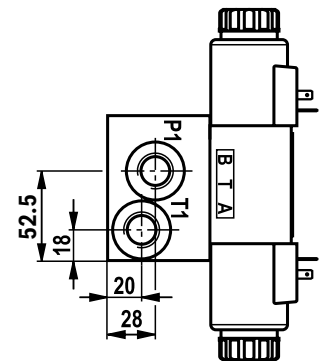
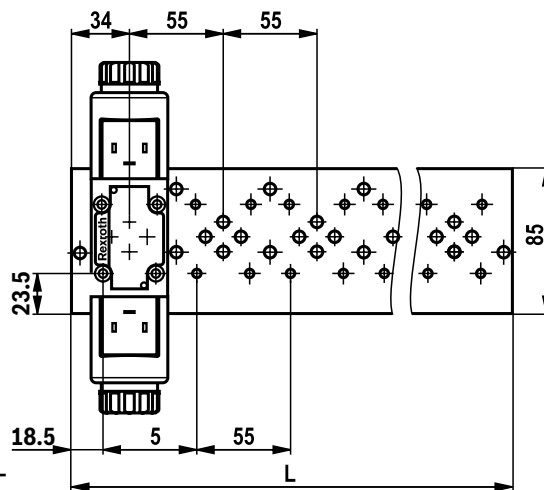
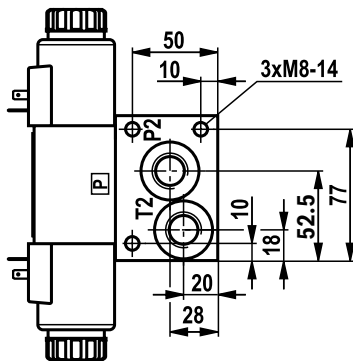
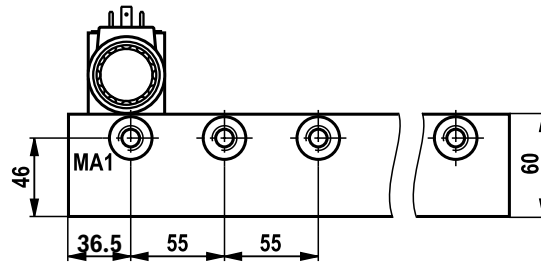
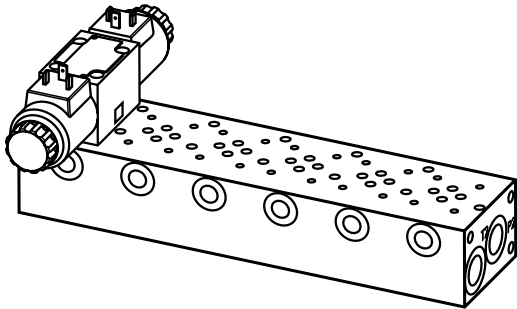
Thread type	Pipe thread according to DIN EN ISO 228-1	
Port	A1 ... A10 B1 ... B10	P1; P2 T1; T2
Thread diameter	G3/8	G1/2
Thread depth	13	15
Counter bore diameter	28	34
Recess depth	0.2	0.2

Number of stations	Overall length L	Fixing holes ¹⁾				
		L1	L2	L3	L4	L5
2	123	5	61.5	118		
3	178	5	61.5	116.5	173	
4	233	5	61.5	116.5	171.5	228
5	288	5	61.5	116.5	171.5	226.5
6	343	5	61.5	116.5	171.5	226.5
7	398	5	61.5	116.5	171.5	226.5
8	453	5	61.5	116.5	171.5	226.5
9	508	5	61.5	116.5	171.5	226.5
10	563	5	61.5	116.5	171.5	226.5

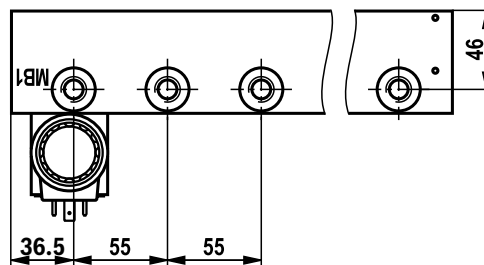
Number of stations	Fixing holes ¹⁾					
	L6	L7	L8	L9	L10	L11
5	283					
6	281.5	338				
7	281.5	336.5	393			
8	281.5	336.5	391.5	448		
9	281.5	336.5	391.5	446.5	503	
10	281.5	336.5	391.5	446.5	501,5	558

¹⁾ If valves, sandwich and cover plates have a width of more than 45 mm, not all through holes can be used for the fixation of the manifolds.

Dimensions: Version "2 ... 10..25/01D (SO8)"
(dimensions in mm)

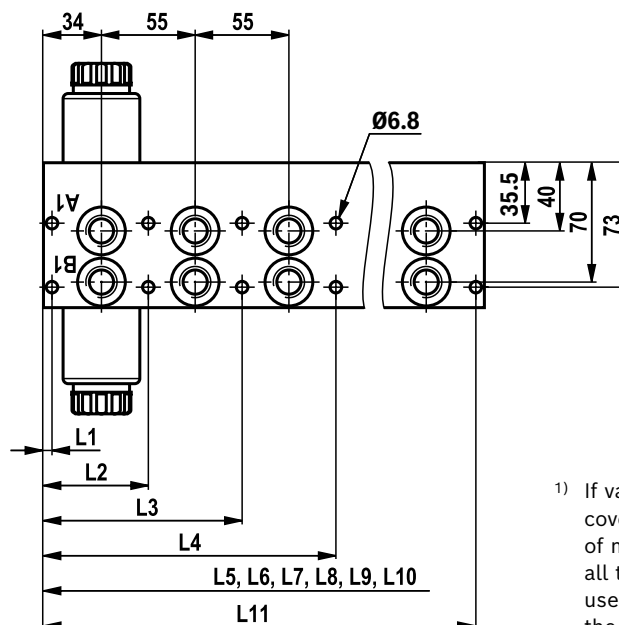


Thread type	Pipe thread according to DIN EN ISO 228-1		
Port	A1 ... A10 B1 ... B10	P1; P2 T1; T2	MA1 ... MA10 MB1 ... MB10
Thread diameter	G3/8	G1/2	G1/4
Thread depth	13	15	13
Counter bore diameter	28	34	25
Recess depth	0.2	0.2	0.2



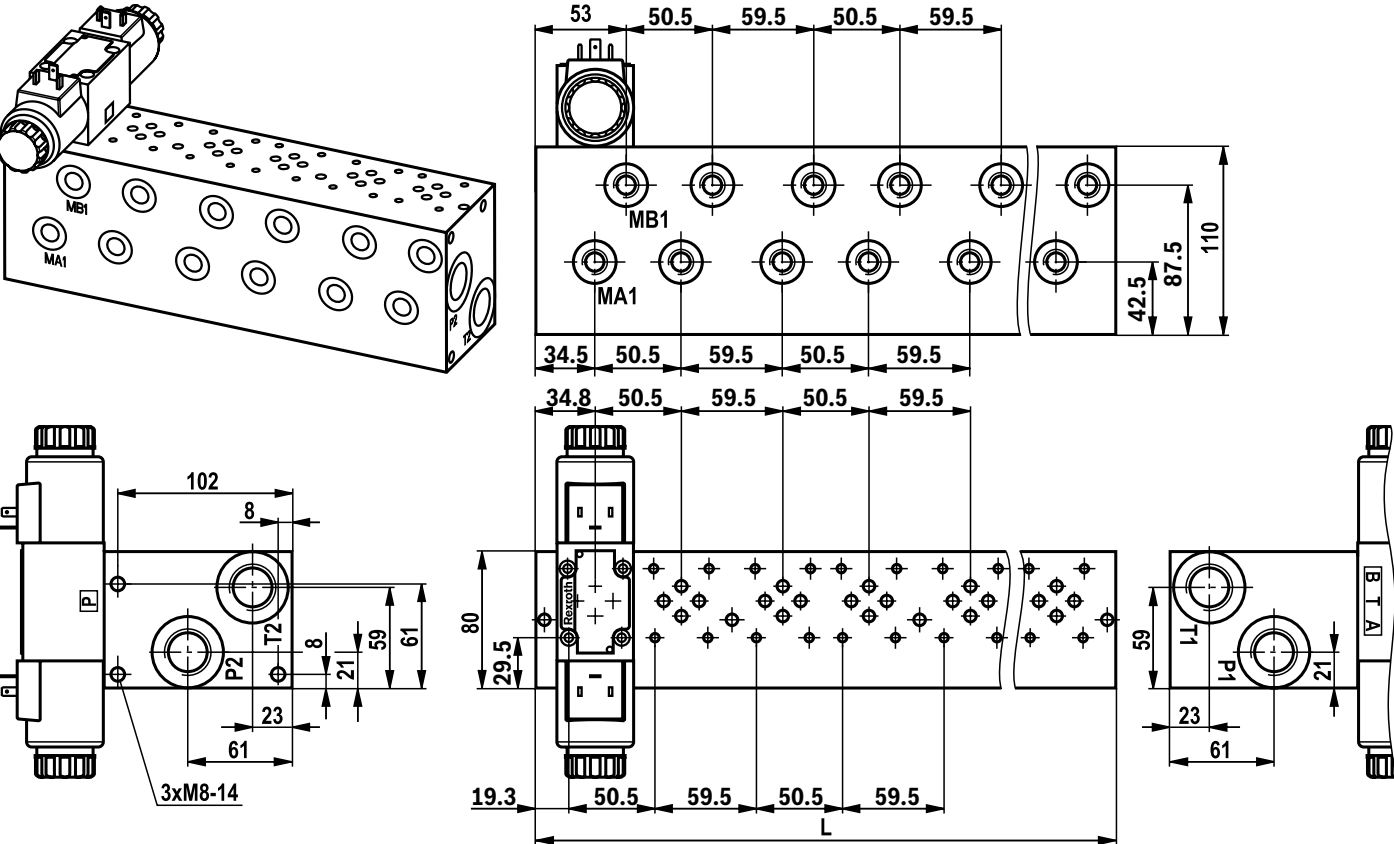
Number of stations	Overall length L	Fixing holes ¹⁾					
		L1	L2	L3	L4	L5	
2	123	5	61.5	118			
3	178	5	61.5	116.5	173		
4	233	5	61.5	116.5	171.5	228	
5	288	5	61.5	116.5	171.5	226.5	
6	343	5	61.5	116.5	171.5	226.5	
7	398	5	61.5	116.5	171.5	226.5	
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9	508	5	61.5	116.5	171.5	226.5	
10	563	5	61.5	116.5	171.5	226.5	

Number of stations	Fixing holes ¹⁾					
	L6	L7	L8	L9	L10	L11
5	283					
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8	281.5	336.5	391.5	448		
9	281.5	336.5	391.5	446.5	503	
10	281.5	336.5	391.5	446.5	501.5	558



¹⁾ If valves, sandwich and cover plates have a width of more than 45 mm, not all through holes can be used for the fixation of the manifolds.

Dimensions: Version "2 ... 10..35/01C/350 (SO8)"
(dimensions in mm)

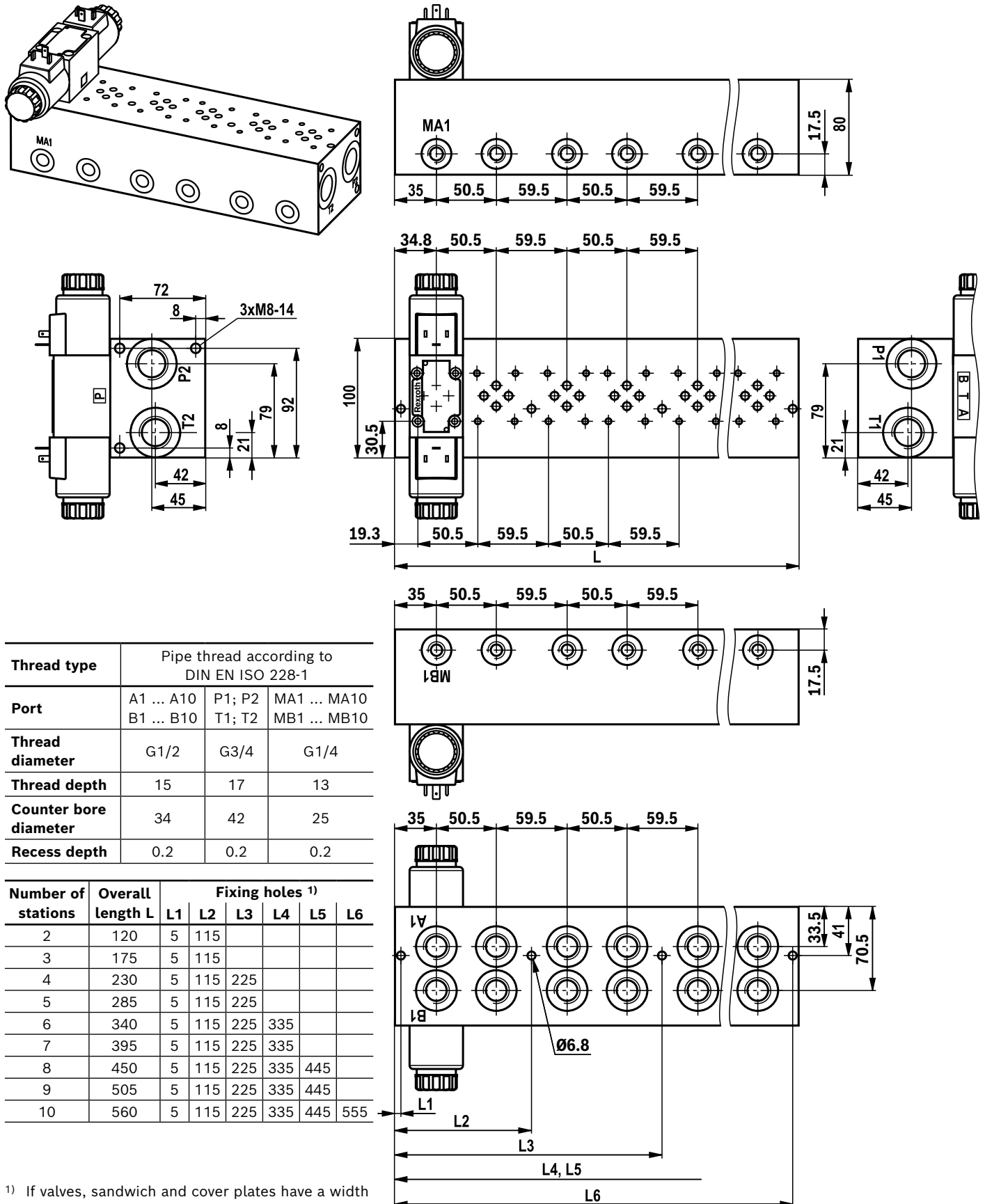


Thread type	Pipe thread according to DIN EN ISO 228-1		
Port	A1 ... A10 B1 ... B10	P1; P2 T1; T2	MA1 ... MA10 MB1 ... MB10
Thread diameter	G1/2	G3/4	G1/4
Thread depth	15	17	12
Counter bore diameter	34	42	25
Recess depth	0.2	0.2	0.2

Number of stations	Overall length L	Fixing holes ¹⁾						
		L1	L2	L3	L4	L5	L6	
2	120	5	115					
3	175	5	115					
4	230	5	115	225				
5	285	5	115	225				
6	340	5	115	225	335			
7	395	5	115	225	335			
8	450	5	115	225	335	445		
9	505	5	115	225	335	445		
10	560	5	115	225	335	445	555	

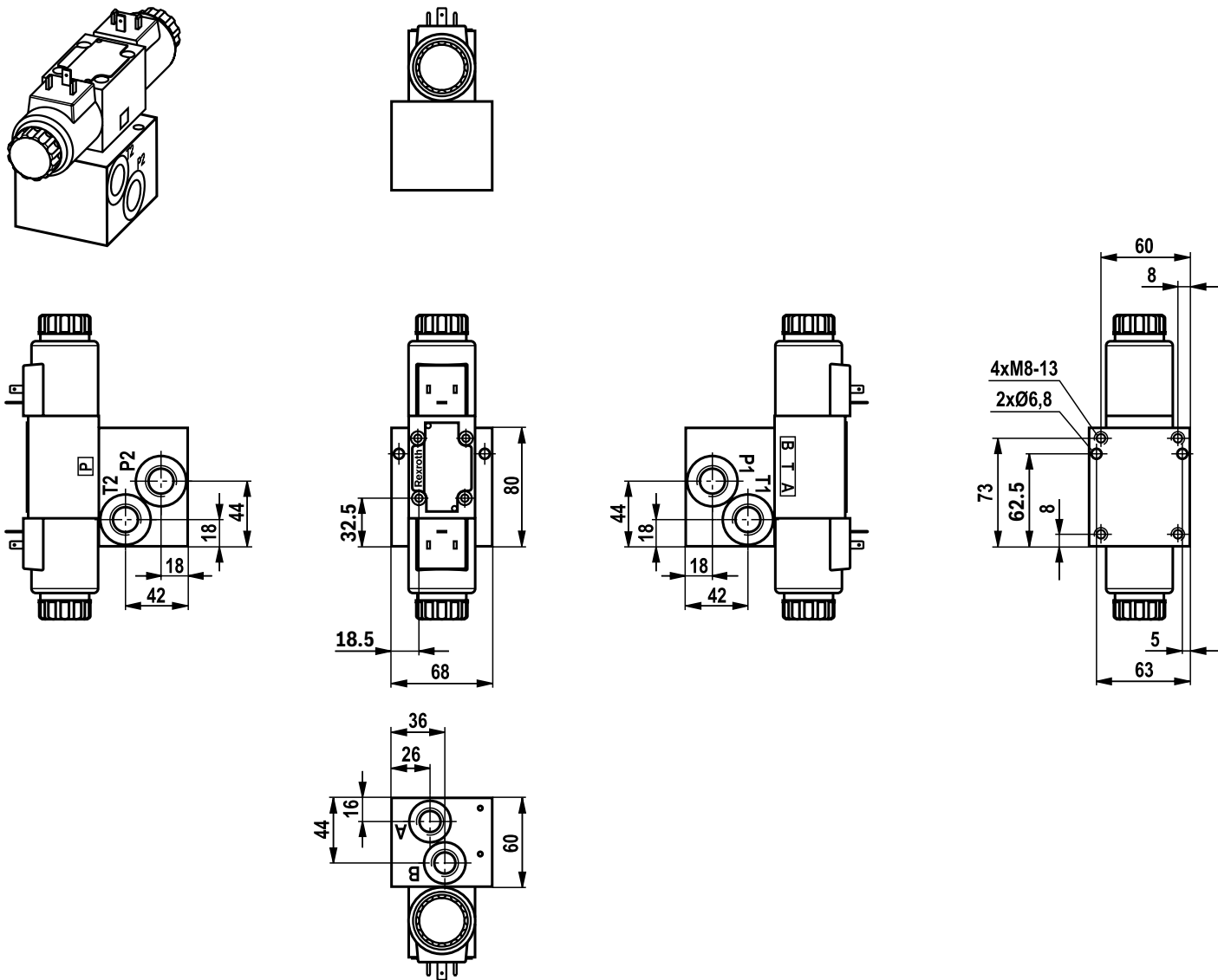
¹⁾ If valves, sandwich and cover plates have a width of more than 49 mm, not all through holes can be used for the fixation of the manifolds.

Dimensions: Version "2 ... 10..35/01D/350 (SO8)" (dimensions in mm)



¹⁾ If valves, sandwich and cover plates have a width of more than 49 mm, not all through holes can be used for the fixation of the manifolds.

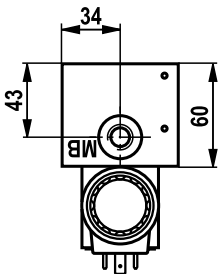
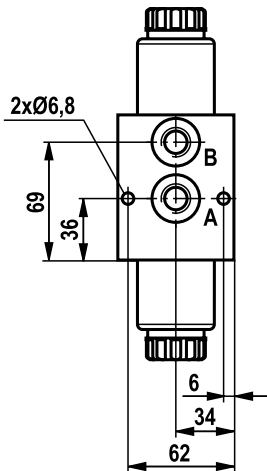
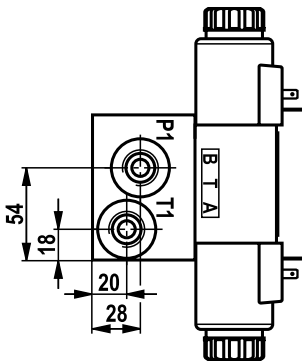
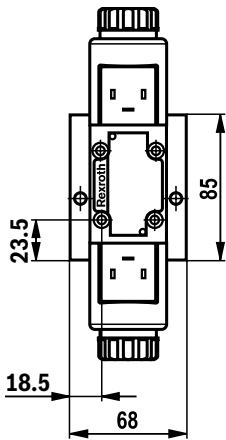
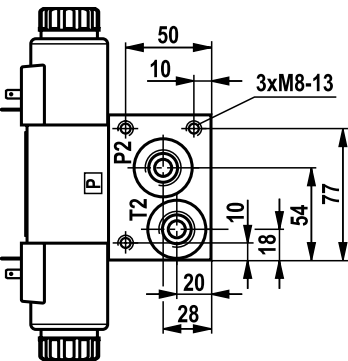
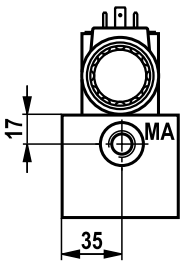
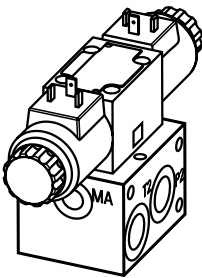
Dimensions: Version **"1HSR..25/01C"**
(dimensions in mm)



Thread type	Pipe thread according to DIN EN ISO 228-1	
Port	A1 ... A10 B1 ... B10	P1; P2 T1; T2
Thread diameter	G3/8	G1/2
Thread depth	13	15
Counter bore diameter	28	34
Recess depth	0.2	0.2

If valves, sandwich and cover plates have a width of more than 48 mm, not all through holes can be used for the fixation of the manifolds!

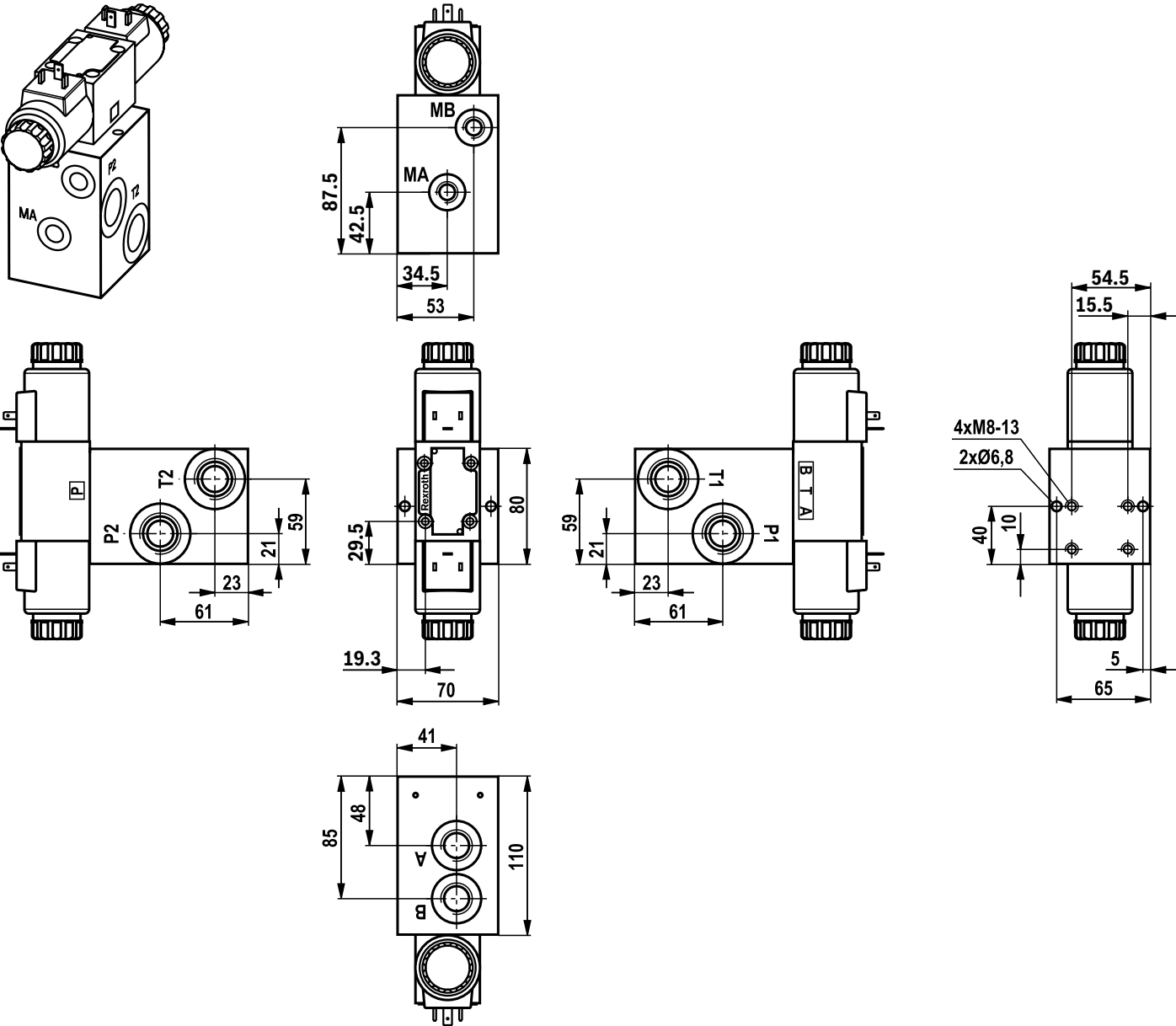
Dimensions: Version "1HSR..25/01D S08"
(dimensions in mm)



Thread type	Pipe thread according to DIN EN ISO 228-1		
Port	A1 ... A10 B1 ... B10	P1; P2 T1; T2	MA1 ... MA10 MB1 ... MB10
Thread diameter	G3/8	G1/2	G1/4
Thread depth	13	15	13
Counter bore diameter	28	34	25
Recess depth	0.2	0.2	0.2

If valves, sandwich and cover plates have a width of more than 46 mm, problems regarding the fixation of the manifold may result!

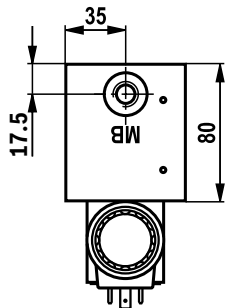
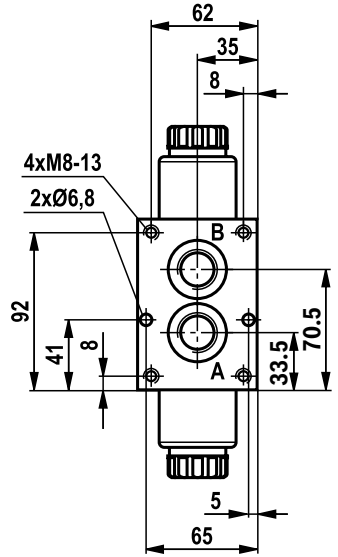
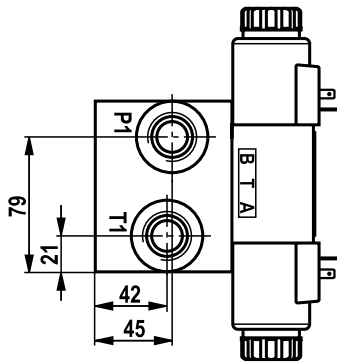
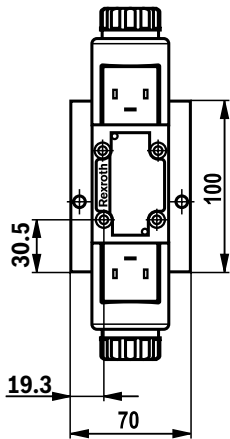
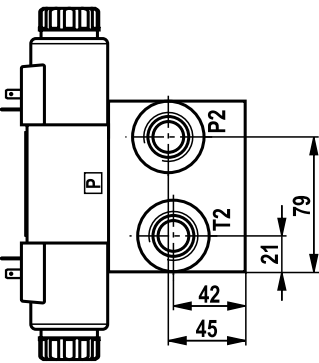
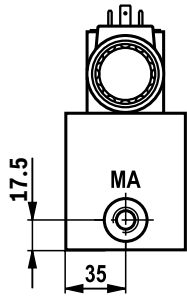
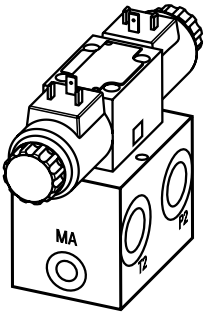
Dimensions: Version **"1HSR..35/01C/350 SO8"**
(dimensions in mm)



Thread type	Pipe thread according to DIN EN ISO 228-1		
Port	A1 ... A10 B1 ... B10	P1; P2 T1; T2	MA1 ... MA10 MB1 ... MB10
Thread diameter	G1/2	G3/4	G1/4
Thread depth	15	17	13
Counter bore diameter	34	42	25
Recess depth	0.2	0.2	0.2

If valves, sandwich and cover plates have a width of more than 50 mm, not all through holes can be used for the fixation of the manifolds!

Dimensions: Version "1HSR..35/01D/350 SO8"
(dimensions in mm)



Thread type	Pipe thread according to DIN EN ISO 228-1		
Port	A1 ... A10 B1 ... B10	P1; P2 T1; T2	MA1 ... MA10
Thread diameter	G1/2	G3/4	G1/4
Thread depth	15	17	13
Counter bore diameter	34	42	25
Recess depth	0.2	0.2	0.2

If valves, sandwich and cover plates have a width of more than 50 mm, not all through holes can be used for the fixation of the manifolds!

Mounting screws dependent on the valve fitting

Screw selection table: Vertical stackings in combination with size 6 directional valves

Number of sandwich plates	Clamping lengths of the sandwich plates	Hexagon socket head cap screws according to ISO 4762; stud screws according to DIN 939		Stability	Material no.
1	1 x 40 mm	M5 x 90	ISO 4762	10.9	R913051578
2	2 x 40 mm	M5 x 130	DIN 939	10.9	R913055302
3	3 x 40 mm	M5 x 170	DIN 939	10.9	R913052749
4	4 x 40 mm	M5 x 210	DIN 939	10.9	R913024007
5	5 x 40 mm	M5 x 250	DIN 939	10.9	R913052751

For the tightening torques of the screws, please refer to the corresponding data sheets of the valves

Notice:

The clamping lengths of the mounted sandwich plates and valves must be checked for each individual case.

Example for mountable sandwich plates with a clamping length of 40 mm:

Pressure reducing valve type ZDR.6D...-4X/... (data sheet 26570),

Pressure relief valve type Z.DB6V...-4X/... (data sheet 25751),

Check valve type Z2S6...-6X/... (data sheet 21548),

Check valve type Z1S6...-4X/... (data sheet 21534),

Throttle check valve type Z2FS6...-4X/... (data sheet 27506),

Pressure switch with sandwich plate type HED8O.2X/... (data sheet 50061)

Directional valve	Hexagon socket head cap screws according to ISO 4762		Stability	Material no.
Direct operated directional valve type WE 6 -6X	M5 x 50	ISO 4762	10.9	R913000064
Proportional valve type WR. 6	M5 x 40	ISO 4762	10.9	R913034874

For the tightening torques of the screws, please refer to the corresponding data sheets of the valves

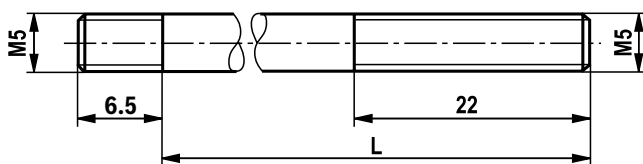
Notice:

The screw selection table does not apply to directional valves in their seawater-protected version due to differences in the clamping lengths on the directional valve (dimensions see data sheets – seawater-protected directional valves).

Notice:

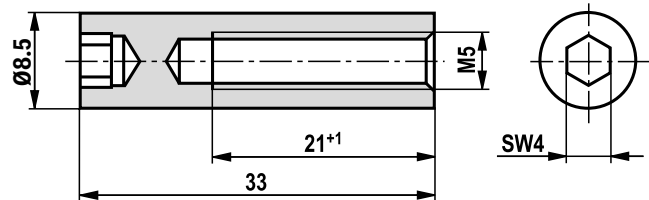
Directional valves with central ports "D", "DL", "DZ" and "DZL" can only be used with hexagon socket head cap screws or stud screws and round nut according to ZN 10035, material no. **R913020308**.

Stud screw M5 DIN 939, property class 10.9



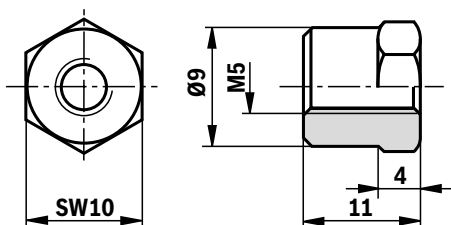
L = length of the stud screws according to DIN 939

Round nut ZN10035-M5-ST, material no. R913020308



Hexagon nut ZN10034-M5-ST-CM-FE-&

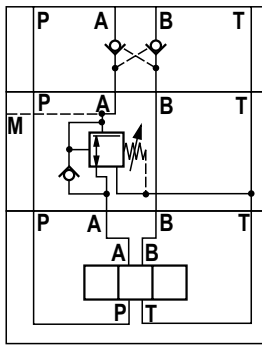
Material no. R913017599



Project planning information

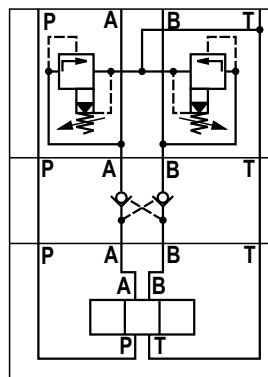
Pressure reducing valve in connection with check valve

The pressure reducing valve type ZDR..DA (pressure reduction in channel A) **must** always be installed between the directional valve and the check valve type Z2S... This ensures that the check valve can block in a leakage-free manner.



Pressure relief valve in connection with check valve

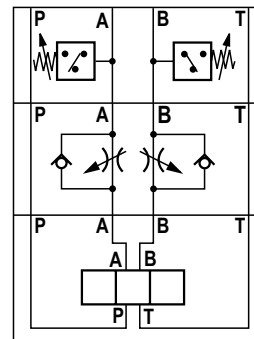
Leakage-free blocking of the actuator is **not** possible if a pressure relief valve type ZDB../Z2DB.. is effective in channel A and/or B and a check valve is installed.



Pressure switch in connection with throttle check valve

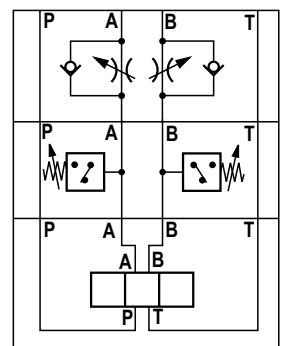
Supply control

The pressure switch type HED 8 OH, effective in channel A and/or B, is installed between sub-plate and the throttle check valve type Z2FS.



Discharge control

The pressure switch type HED 8 OH, effective in channel A and/or B, is installed between directional valve and throttle check valve type Z2FS.



Notice:

The illustrated sections of circuit diagrams are examples. The project planning information must also be observed for valves with a similar function.

Notice:

The installation of sandwich plates with two pressure switches on manifolds with lateral ports "C" is possible in individual cases. Upon request.

Notice:

Due to the valves and sandwich plates with "excessive width", some through holes for the fixation of the manifold can not be used. The end user is responsible for evaluating, assessing and taking the responsibility with regard to the decision whether the mounting screws in these positions can be renounced.

Possible countermeasures may include:

- ▶ Use of a narrower distance plate under the broader valves and sandwich plates e.g.: R900516529 Sandwich plate HSZ 06 A003-3X/M00
- ▶ Exchanging the order of the sandwich plates of the individual vertical stackings unless this impairs the function.
- ▶ It may possibly also be useful to change the order of the vertical stackings.

Alternatively, you can use available mounting threads for the fixation.

Selection of available subplate-mounted valves

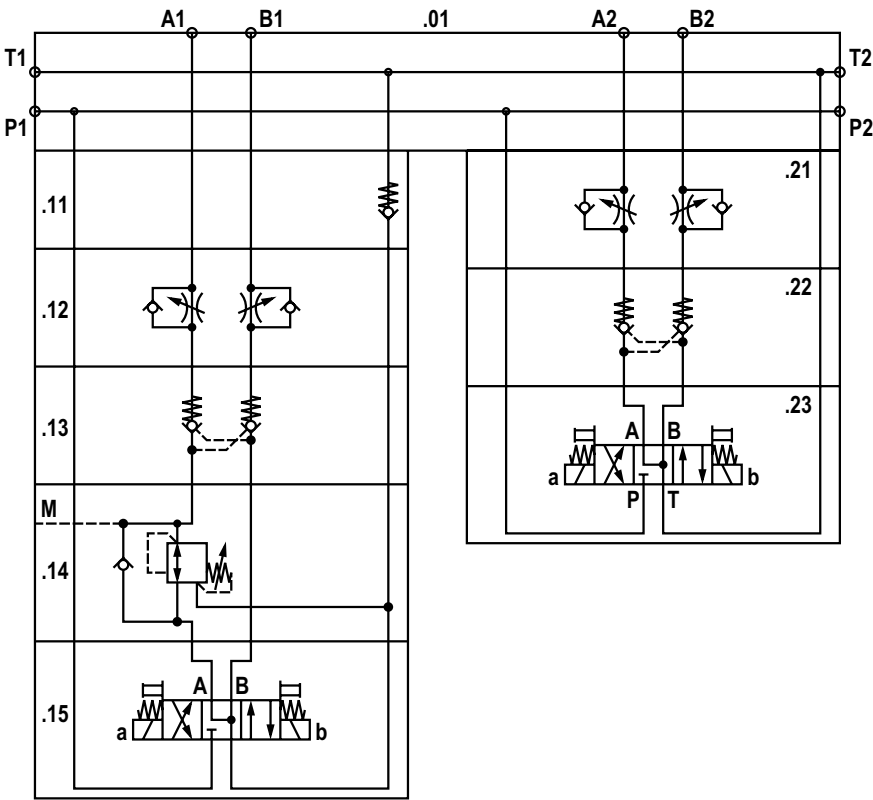
Sandwich plate valves NG6	Data sheet
Sandwich plates type HSZ	48050
Pressure reducing valve type ZDR	26570
Pressure relief valve type ZDB	25751
Check valve type Z2S	21548
Check valve type Z1S	21534
Throttle check valve type Z2FS	27506
Pressure switch type HED8	50061
Cover plate NG6	Data sheet
Type HSA	48042

Directional spool valve NG6	Data sheet
Type WE (electrically operated)	23178
Type WP and WH (fluidic actuation)	22282
Type WM (mechanically or manually operated)	22280
Proportional directional valve NG6	Data sheet
Type WRA (direct operated, without electrical position feedback)	29055
Type WRE (direct operated, with electrical position feedback)	29061

NG = size

Required ordering code of a completely mounted manifold

Example:
2-fold manifold



Item	Quantity	Device designation	Type designation	Material no.
.0	1		2HSR 06 C2X... 1)	1)
.01	1	Manifold	2HSR06-35/01C/350 PHOSPHATED	R901552653
.11	1	Check valve	Z1S 6 T05-4X/V	R901086058
.12	1	Throttle check valve	Z2FS 6-2-4X/2QV	R900481624
.13	1	Pilot operated check valve	Z2S 6-2-6X/	R900347496
.14	1	Pressure reducing valve	ZDR 6 DA2-4X/150Y	R900410849
.15	1	Directional valve	4WE 6 J6X/EG24N9K4	R900561288
	4	Stud screw	DIN939-M5X250-10.9-C&	R913025153
	4	Round nut	ZN10035-M5-ST	R913020308
.21	1	Throttle check valve	Z2FS 6-2-4X/2QV	R900481624
.22	1	Pilot operated check valve	Z2S 6-2-6X/	R900347496
.23	1	Directional valve	4WE 6 J6X/EG24N9K4	R900561288
	4	Stud screw	DIN939-M5X130-10.9-CM-FE-ZNNI-5-CN-T0-H-R	R913055302
	4	Round nut	ZN10035-M5-ST	R913020308

1) Material number and type designation are determined by the plant or the manifold configurator

The manifold configurator on www.boschrexroth.com/ics/hsr

The configurator for manifold type HRS helps you configure your individual manifold or vertical stacking type HSH in a simple and convenient way. You can do this online by selecting relevant features of the base element (e.g. size, number of stations and port size) and the mounted product components (e.g. size, pressure, type of actuation).



Notice:

The configurator cannot be used for unfitted plates.



Notice:

Tutorials for operating the configurator can be found at: <https://bit.ly/3onTqoZ>



Thanks to the intuitive menu navigation, you are guided safely through the required configuration steps. Related features are clearly arranged on one page. By connecting components from various product areas, you can choose from a range of approx. 1000 different functions.



The individual components are selected either by type code or by material number using a configuration based on the circuit diagram or a "step by step" selection of the individual functional properties of the valve or the sandwich plate.



When the configuration is complete, a collision check offers various possibilities of fixing existing collisions. When the configuration is finished, you can have the complete configuration documentation sent to you via email including material list, circuit diagram, 2D drawing and 3D model (STEP). This is done by way of an automatic request to your local distributor who will promptly contact you and send you an offer.

Further information

▶ Pressure reducing valve type ZDR.6D...-4X/...	Data sheet 26570
▶ Pressure relief valve type Z.DB6V...-4X/...n	Data sheet 25751
▶ Check valve type Z2S6...-6X/...	Data sheet 21548
▶ Check valve type Z1S6...-4X.../	Data sheet 21534
▶ Throttle check valve type Z2FS6...-4X/...	Data sheet 27506
▶ Pressure switch with sandwich plate type HED8O.2X/...	Data sheet 50061
▶ Sandwich plates type HSZ	Data sheet 48050
▶ Information on available spare parts	www.boschrexroth.com/spc
▶ Hydraulic fluids on mineral oil basis	Data sheet 90220
▶ Environmentally compatible hydraulic fluids	Data sheet 90221

Standards

▶ Metallic and other inorganic coatings – phosphate coatings on metals	DIN EN ISO 9717
▶ Metallic coatings – Galvanic zinc and zinc alloy coatings on iron materials with additional Cr(VI)-free treatments	DIN EN ISO 19598
▶ Pipe thread for non-threaded connections	DIN EN ISO 228-1
▶ Hexagon socket head cap screws with internal hexagon	DIN EN ISO 4762
▶ Stud screws	DIN 939

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