

Sandwich plates Porting patterns according to DIN 24340 form A and ISO 4401

RE 48050/08.10
Replaces: 01.09

1/96

Type HSZ 06

Size 6
Component series 1X, 3X and 4X
Maximum operating pressure 315 bar

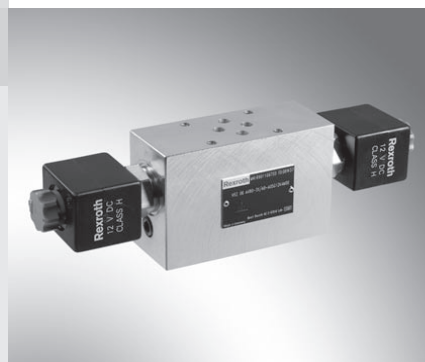


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Features

- Vertically stackable components in sandwich plate design
- Porting patterns according to DIN 24340 form A, **without** locating hole (standard), ISO 4401, **with** locating hole (ordering code .../60 at the end of the valve type)
- Amendment to the existing sandwich plate program
- Structure as individual component or as horizontal stacking on manifolds according to data sheet RE 48107 or vario plates
- Large variability due to the possibility of different combinations as well as subsequent functional changes and extensions
- Maximum operating pressure
 - without valve function: 315 bar
 - with valve function: Maximally 315 bar (depending on the valve fitting)
- Weight indications contain the installed and/or attached valves
- Coating: galvanic coating DIN 50979 - Fe//Zn8//Cu//TiO
- Dimension L x W x H without installed and/or attached valves

Safety instructions

- The valve mounted in the sandwich plates can block in an undefined position due to internal contamination – like e.g. polluted hydraulic fluid, abrasion dust or residual dirt from system components. As a result, the driven actuator may no longer be under the operator's control.
- When using a single-rod cylinder, inadmissibly high pressures may result in the discharge channel due to pressure intensification (e.g. unswitched directional seat valve / uncontrolled solenoid coil / cable brake). We therefore recommend securing the cylinder by means of pressure relief valves.

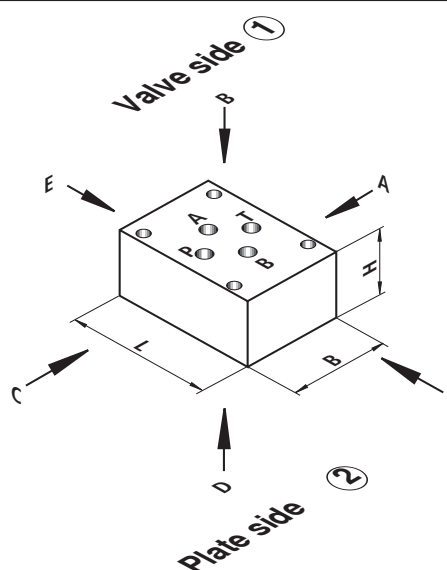
Explanations of the type key for HSZ 06 sandwich plates

1	2	3	4
HSZ 06 A – 3X/			
	Serial number of the functional design from 001 ... 999 (is determined in the factory)		
	Seal material: NBR seals (standard) FKM seals (other seals upon request)		
	⚠ Attention! Observe compatibility of seals with hydraulic fluid used!		
	Type of connection: No external connection Connection according to DIN 3852 part 1 with thread according to DIN ISO 228 (Whitworth pipe thread)		
	Further details in the plain text		

= M
= V

= 00
= 01

3D view



Order examples

Material no.	Type designation	
R900516508	HSZ 06 A037-3X/M01	Sandwich plate without valve function
R900578929	HSZ 06 A185-3X/05M00	Sandwich plate with fixed valve design
R900908338	HSZ 06 A100-3X/ ^{15 16} S 050 M00	Sandwich plate with optional valve design

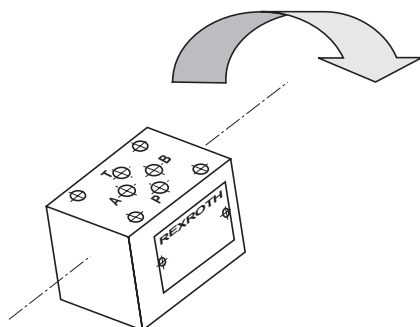
Type key and order examples for fitted sandwich plates, see relevant functional groups!

Sandwich plates with possible valve fitting are available as both, complete device (with valves assembled) or as construction kit plate (only with seals, plug screws, name plate).

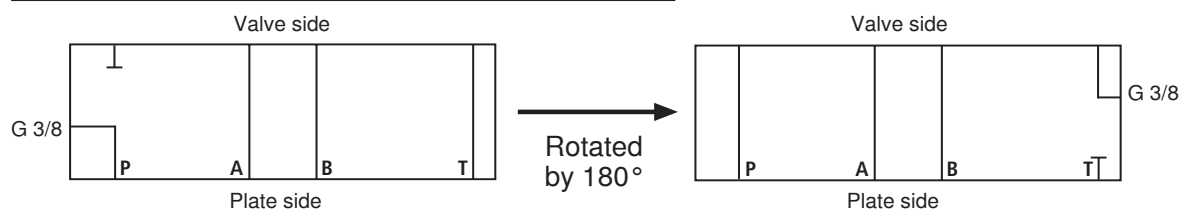
- Other circuits and designs as specified in the data sheet are only possible after consultation!
- Connection threads in HSZ plates are always covered in a pressure-tight form.

Extended applications of HSZ 06 sandwich plates with R ring plate

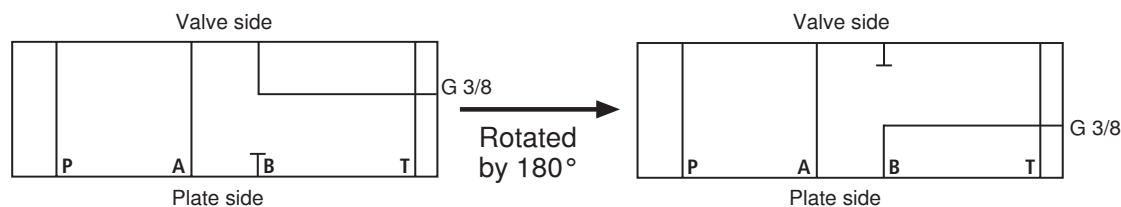
HSZ 06 sandwich plates with R ring plates can be rotated by 180° around the axis. Due to the changed installation position, a different function results (circuit diagram). See the following examples.



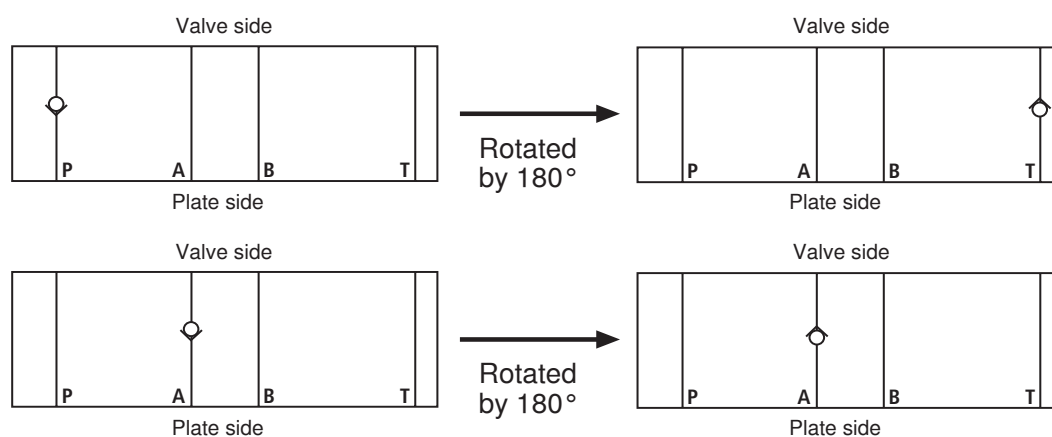
Distance plates with port in the P or T channel



Distance plates with port in the A or B channel

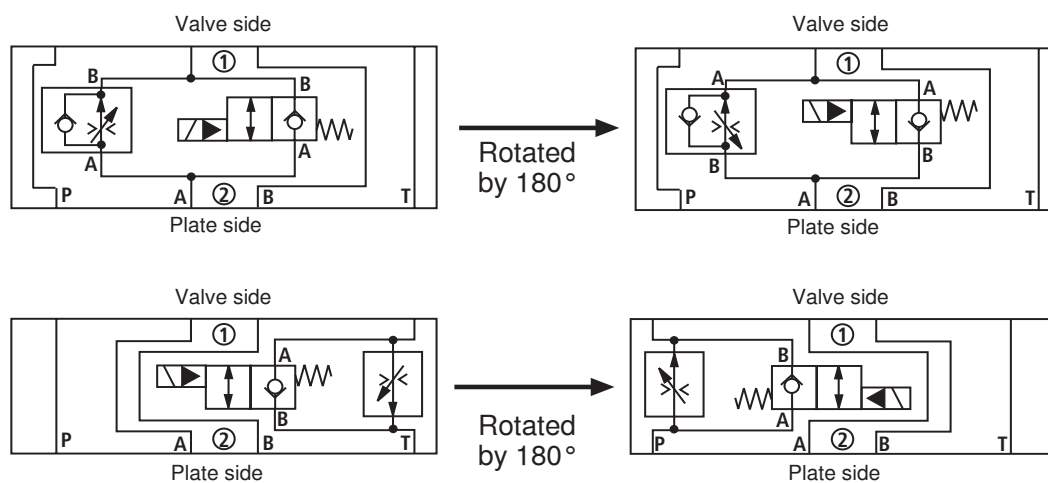


Check valves



Extended applications of HSZ 06 sandwich plates with R ring plate

Examples



Distance plates without port (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate with R ring plate	HSZ 06 A003-3X/M00		65 x 44 x 11 0.2 kg	R900262275
	R900516529			
Sandwich plate	HSZ 06 A007-3X/M00		65 x 44 x 20 0.4 kg	R900262276
	R900516530			
Sandwich plate	HSZ 06 A300-3X/M00		65 x 44 x 40 0.8 kg	R900262699
	R900523148			
Sandwich plate	HSZ 06 A004-3X/M00		65 x 44 x 50 1.0 kg	R901040238
	R901040119			
Sandwich plate	HSZ 06 A012-3X/M00		65 x 44 x 60 1.2 kg	R900262277
	R900516531			
Sandwich plate	HSZ 06 A008-3X/M00		65 x 44 x 80 1.6 kg	R900262647
	R900522535			
Sandwich plate	HSZ 06 A085-3X/M00		65 x 44 x 10 0.2 kg	R900262118
	R900514667			

Distance plates without port (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	HSZ 06-26708-ZA/M00		130 x 44 x 40 1.6 kg	R900276171
	R900951457 Comment: Hole pattern displaced by 76.5 mm in direction A			
Sandwich plate	HSZ 06-27867-ZA/M00		101 x 44 x 50 1.4 kg	R900751903
	R900751895 Comment: Hole pattern displaced by 40.5 mm in direction B			
Sandwich plate	HSZ 06-38081-ZA/M00		180 x 44 x 40 2.3 kg	R901176042
	R901175997 Comment: Hole pattern displaced by 115 mm in direction A			
Sandwich plate	HSZ 06-38086-ZA/M00		180 x 44 x 40 2.3 kg	R901178034
	R901177875 Comment: Hole pattern displaced by 115 mm in direction A			

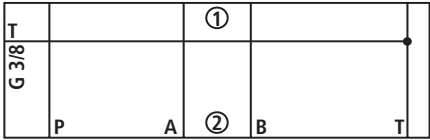
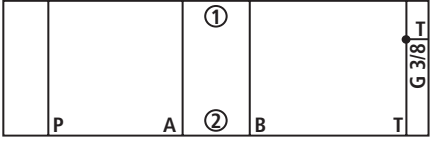
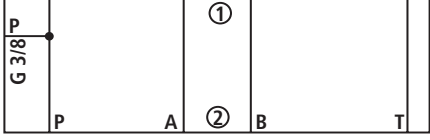
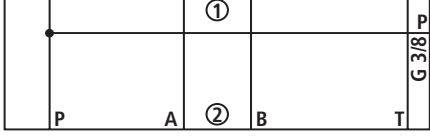
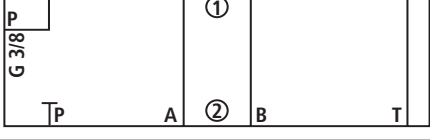
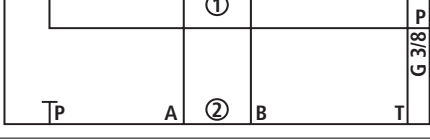
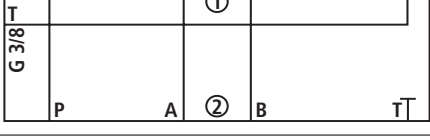
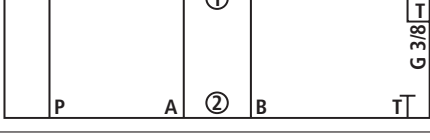
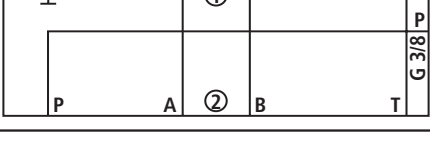
Distance plates without port with orifice fitting (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	HSZ 06 A085-3X/M00		65 x 44 x 10 0.2 kg	R900262118
	R900514667			

Example: with orifice fitting M8x1 Ø 0.8 mm in all channels:

HSZ 06 A085-3X/A08B08P08T08M00

Distance plates with port in the P or T channel (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate with R ring plate	HSZ 06 A323-3X/M01		90 x 44 x 40	R900262254
	R900520639		1.2 kg Side E T G 3/8	
Sandwich plate with R ring plate	HSZ 06 A326-3X/M01		90 x 44 x 40	R900262590
	R900521800		1.2 kg Side F T G 3/8	
Sandwich plate with R ring plate	HSZ 06 A324-3X/M01		90 x 44 x 40	R900262588
	R900521798		1.2 kg Side E P G 3/8	
Sandwich plate with R ring plate	HSZ 06 A021-3X/M01		90 x 44 x 40	R900262591
	R900521801		1.2 kg Side F P G 3/8	
Sandwich plate with R ring plate	HSZ 06 A327-3X/M01		90 x 44 x 40	R900262698
	R900523147		1.2 kg Side E P G 3/8	
Sandwich plate with R ring plate	HSZ 06 A027-3X/M01		90 x 44 x 40	R900262190
	R900515513		1.2 kg Side F P G 3/8	
Sandwich plate with R ring plate	HSZ 06 A325-3X/M01		90 x 44 x 40	R900262589
	R900521799		1.2 kg Side E T G 3/8	
Sandwich plate with R ring plate	HSZ 06 A028-3X/M01		90 x 44 x 40	R900262186
	R900515514		1.2 kg Side F T G 3/8	
Sandwich plate with R ring plate	HSZ 06 A341-3X/M01		90 x 44 x 40	R900265938
	R900564870		1.2 kg Side F P G 3/8	

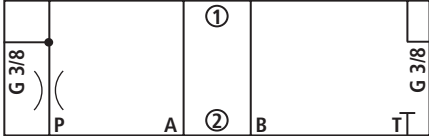
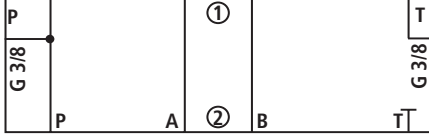
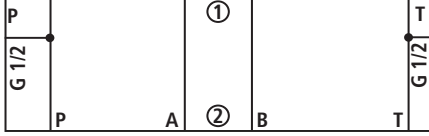
Distance plates with port in the P or T channel (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate with R ring plate	HSZ 06 A531-3X/M01		90 x 44 x 40	R900263422
	R900557368		1.2 kg Side F T G 3/8	
Sandwich plate with R ring plate	HSZ 06 A315-3X/M01		85 x 44 x 70	R901123578
	R901122475		1.9 kg Side E P G 3/8	
Sandwich plate with R ring plate	HSZ 06-26170-ZA/M01		65 x 44 x 20	R900279851
	R900971760		0.4 kg Side E Side F P/T P/T G 1/8 G 1/8	

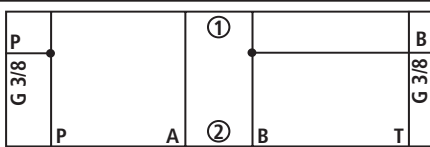
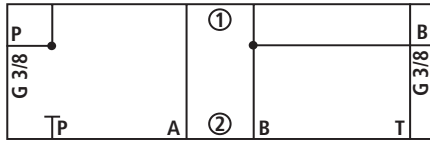
Distance plates with port in the P and T channel (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate with R ring plate	HSZ 06 A037-3X/M01		90 x 44 x 40	R900262243
	R900516508		1.2 kg Side E Side F T P G 1/4 G 1/4	
Sandwich plate with R ring plate	HSZ 06 A065-3X/M01		90 x 44 x 40	R900262191
	R900515221		1.2 kg Side E Side F T P G 3/8 G 3/8	
Sandwich plate with R ring plate	HSZ 06 A318-3X/M01		90 x 44 x 40	R900262278
	R900516532		1.2 kg Side E Side F P T G 3/8 G 3/8	
Sandwich plate with R ring plate	HSZ 06 A068-3X/M01		90 x 44 x 40	R900262187
	R900515511		1.2 kg Side E Side F P T G 3/8 G 3/8	
Sandwich plate with R ring plate	HSZ 06 A032-3X/M01		90 x 44 x 40	R900262271
	R900516525		1.2 kg Side E Side F P T G 3/8 G 3/8	
Sandwich plate with R ring plate	HSZ 06 A319-3X/M01		90 x 44 x 40	R900262273
	R900516527		1.2 kg Side E Side F T P G 3/8 G 3/8	
Sandwich plate with R ring plate	HSZ 06 A054-3X/M01		90 x 44 x 40	R900262272
	R900516526		1.2 kg Side E Side F T P G 3/8 G 3/8	

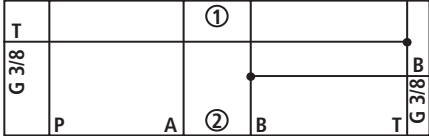
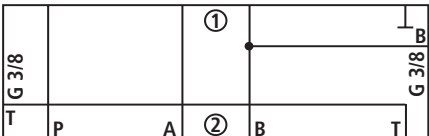
Distance plates with port in the P and T channel (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate with R ring plate	HSZ 06 A465-3X/D08M01		90 x 44 x 40	R901000538 Orifice 0.8 mm
	R901000498		1.2 kg Side E Side F P T G 3/8 G 3/8	
Sandwich plate with R ring plate	HSZ 06 A654-3X/M01		90 x 44 x 40	R901185817
	R901185786		1.2 kg Side E Side F P T G 3/8 G 3/8	
Sandwich plate with R ring plate	HSZ 06 A584-3X/M01		90 x 44 x 40	R900271395
	R900928355		1.2 kg Side E Side F P T G 1/2 G 1/2	

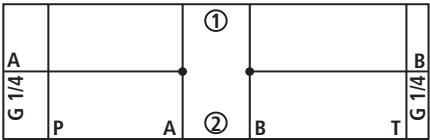
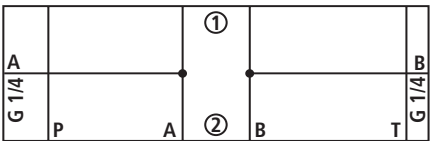
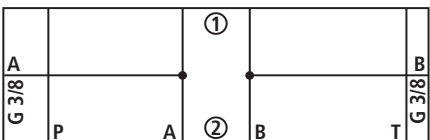
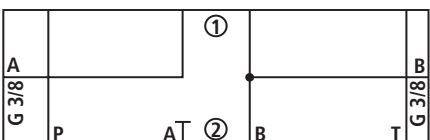
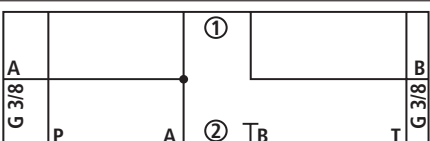
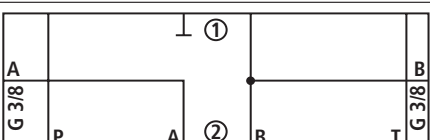
Distance plates with port in the P and B channel (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate with R ring plate	HSZ 06 A432-3X/M01		90 x 44 x 40	R900239765
	R900974223		1.2 kg Side E Side F P B G 3/8 G 3/8	
Sandwich plate with R ring plate	HSZ 06 A655-3X/M01		90 x 44 x 40	R901188312
	R901188300		1.2 kg Side E Side F P B G 3/8 G 3/8	

Distance plates with port in the T and B channel (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate with R ring plate	HSZ 06 A051-3X/M01		90 x 44 x 40	R901198319
	R901198312		1.2 kg Side E Side F T B G 3/8 G 3/8	
Sandwich plate with R ring plate	HSZ 06 A655-3X/M01		90 x 44 x 40	R901188312
	R901188300		1.2 kg Side E Side F T B G 3/8 G 3/8	

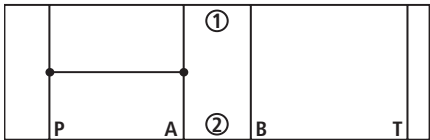
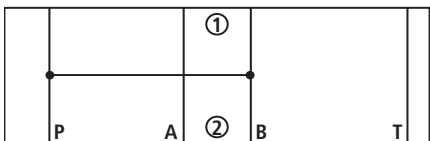
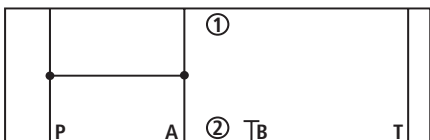
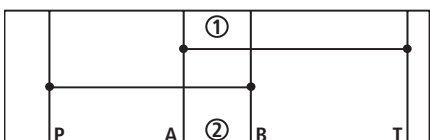
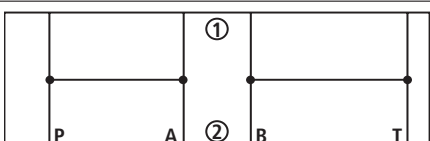
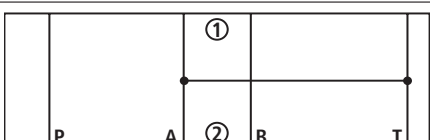
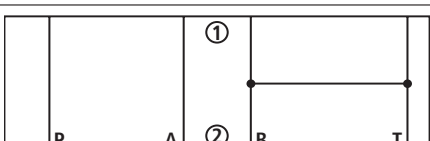
Distance plates with port in the A and B channel (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate with R ring plate	HSZ 06 A035-3X/V01		120 x 44 x 30	R900262188
	R900319547		1.2 kg Side E Side F A B G 1/4 G 1/4	
Sandwich plate with R ring plate	HSZ 06 A320-3X/M01		65 x 44 x 40	R901228456
	R901228368		1.2 kg Side E Side F A B G 1/4 G 1/4	
Sandwich plate with R ring plate	HSZ 06 A031-3X/M01		65 x 44 x 40	R900262267
	R900516521		0.8 kg Side E Side F A B G 3/8 G 3/8	
Sandwich plate with R ring plate	HSZ 06 A040-3X/M01		65 x 44 x 40	R900262189
	R900515512		0.8 kg Side E Side F A B G 3/8 G 3/8	
Sandwich plate with R ring plate	HSZ 06 A331-3X/M01		65 x 44 x 40	R900265104
	R900532456		0.8 kg Side E Side F A B G 3/8 G 3/8	
Sandwich plate with R ring plate	HSZ 06 A342-3X/M01		65 x 44 x 40	R900265939
	R900564871		0.8 kg Side E Side F A B G 3/8 G 3/8	

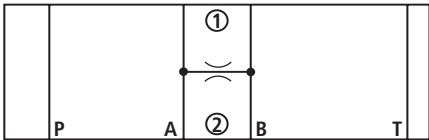
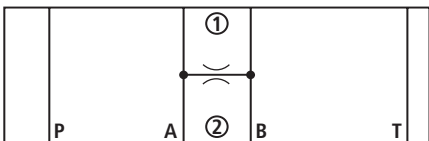
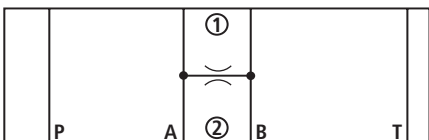
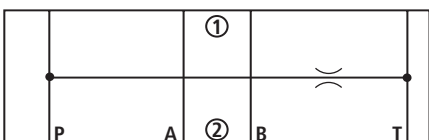
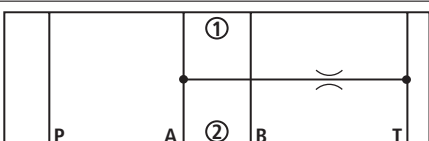
Distance plates with port in the A or B channel (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate with R ring plate	HSZ 06 A082-3X/M01		75 x 44 x 39	R900765905
	R900765802		1 kg Side F A G 3/8	
Sandwich plate	HSZ 06 A045-3X/M01		90 x 44 x 60	R900266381
	R900571570		1.6 kg Side E Side F A T G 3/8 G 3/8	
Sandwich plate	HSZ 06 A299-3X/M01		74 x 44 x 40	R901235654
	R901235604		0.9 kg Side F B G 3/8	
Sandwich plate	HSZ 06 A666-3X/M01		65 x 44 x 30	R901244815
	R901244815		0.6 kg Side A B G 1/4	
Sandwich plate	HSZ 06 A297-3X/M01		65 x 44 x 40	R901251598
	R901248627		0.7 kg Side F A/B G 1/4	

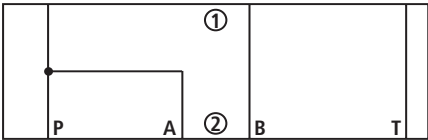
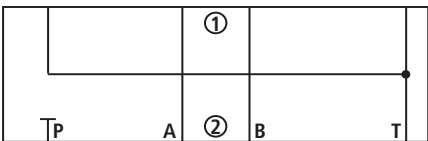
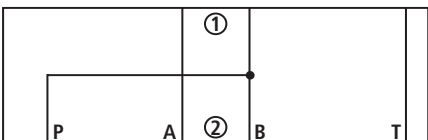
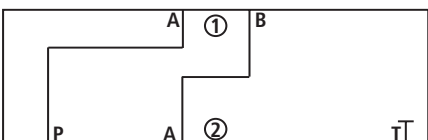
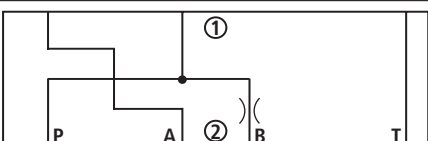
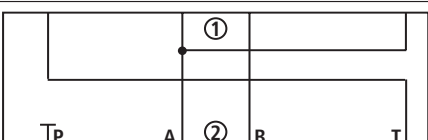
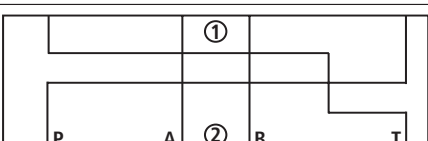
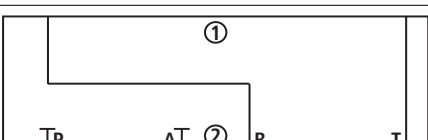
Distance plates with connections ((1) = component side, (2) = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate with R ring plate	HSZ 06 A019-3X/M00		65 x 44 x 20 0.4 kg	R900262274
	R900516528			
Sandwich plate with R ring plate	HSZ 06 A308-3X/M00		65 x 44 x 20 0.4 kg	R900262872
	R900526439			
Sandwich plate	HSZ 06 A437-3X/M00		75 x 44 x 40 1.0 kg	R900619269
	R900618537 Comment: Hole pattern displaced by 10 mm in direction A			
Sandwich plate with R ring plate	HSZ 06 A077-3X/M00		65 x 44 x 30 0.6 kg	R900262269
	R900516523			
Sandwich plate with R ring plate	HSZ 06 A079-3X/M00		65 x 44 x 30 0.6 kg	R900262478
	R900520150			
Sandwich plate with R ring plate	HSZ 06 A529-3X/M00		65 x 44 x 20 0.4 kg	R900266369
	R900571362			
Sandwich plate with R ring plate	HSZ 06 A333-3X/M00		65 x 44 x 20 0.4 kg	R900265197
	R900533927			

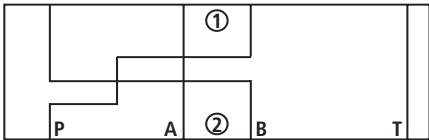
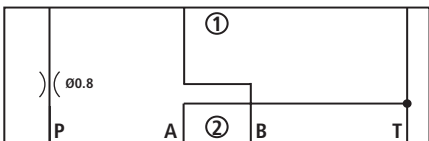
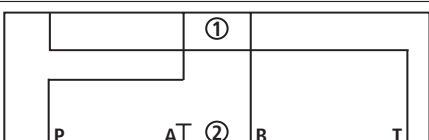
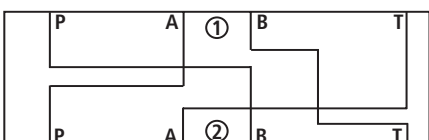
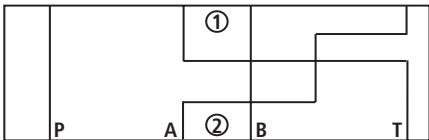
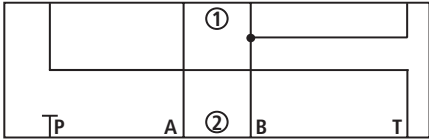
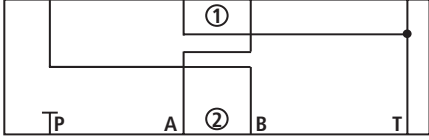
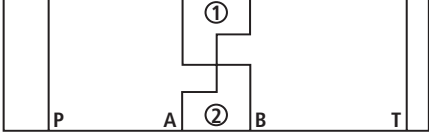
Distance plates with connections and orifice (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	HSZ 06 A447-3X/M00		65 x 44 x 20 0.4 kg	R900732606 Internal thread M6x1
	R901141263			
Sandwich plate	HSZ 06 A071-3X/M00		65 x 44 x 20 0.4 kg	R900262268 Internal thread M8x1
	R900516522			
Sandwich plate with R ring plate	HSZ 06 A597-3X/D00M00		98 x 44 x 40 1.1 kg	R900275692 Internal thread M6x1
	R901246265			
Sandwich plate	HSZ 06 A312-3X/M00		90 x 44 x 20 0.6 kg	R900262385 Internal thread M6x1
	R900518231			
Sandwich plate with R ring plate	HSZ 06 A591-3X/D00M00		98 x 44 x 40 1.1 kg	R900274391 Internal thread M6x1
	R901243424			

Distance plates with connections (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate with R ring plate	HSZ 06 A047-3X/M00		65 x 44 x 20	R900771219
	R900550151		0.4 kg	
Sandwich plate with R ring plate	HSZ 06 A055-3X/M00		65 x 44 x 30	R900255883
	R900548267		0.6 kg	
Sandwich plate	HSZ 06 A471-3X/M00		65 x 44 x 20	R901026429
	R901026350		0.4 kg	
Sandwich plate	HSZ 06 A328-3X/M00		65 x 44 x 40	R900262783
	R900524659 Comment: without R ring recess in B!		0.8 kg	
Sandwich plate	HSZ 06 A427-3X/M00		65 x 44 x 40	R900278533 Internal thread M8x1
	R900965233		0.8 kg	
Sandwich plate	HSZ 06 A434-3X/M00		65 x 44 x 40	R900247739
	R900246286		0.8 kg	
Sandwich plate	HSZ 06 A449-3X/M00		90 x 44 x 40	R900736707
	R900735049		1.0 kg	
Sandwich plate with R ring plate	HSZ 06 A438-3X/M00J28		65 x 44 x 20	R900619211
	R900619060		0.4 kg	

Distance plates with connections (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate with R ring plate	HSZ 06 A653-3X/M00J		65 x 44 x 40 0.8 kg	R901184516
	R901184000			
Sandwich plate	HSZ 06-26791-AA/HM00		130 x 44 x 40 1.6 kg	R900241153 Internal thread M8x1
	R900976963 Comment: Hole pattern displaced by 65 mm in direction A			
Sandwich plate	HSZ 06 A477-3X/M00		65 x 44 x 40 0.8 kg	R901043053
	R901042648			
Sandwich plate	HSZ 06-38046-ZA/M00		80 x 70 x 60 2.4 kg	R901134794
	R901134788			
Sandwich plate with R ring plate	HSZ 06-27408-ZA/M00		65 x 44 x 50 1.0 kg	R900240082
	R900975377			
Sandwich plate	HSZ 06 A647-3X/M00		65 x 44 x 40 0.8 kg	R901163165
	R901161174			
Sandwich plate	HSZ 06 A649-3X/M00		65 x 44 x 60 1.2 kg	R901168877
	R901167912			
Sandwich plate	HSZ 06 A061-3X/M00		65 x 44 x 40 0.8 kg	R900265635
	R900560232			

Distance plates with connections and 2 connection diagrams 06A

((1) = component side, (2) = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	HSZ 06-05536-ZA/M00		110 x 60 x 50 2.6 kg	R900279833
	R900328955			
Sandwich plate	HSZ 06-38079-AA/HM00		100 x 85 x 40 2.5 kg	R901172510 RE 20380
	R901172503			
Sandwich plate with R ring plates	HSZ 06-26026-ZA/M00		95 x 65 x 20 0.86 kg	R901025196
	R901025202			
Sandwich plate	HSZ 06-26887-ZA/M00		100 x 80 x 40 2.3 kg	R900782908
	R900782872			
Sandwich plate	HSZ 06-26736-ZA/M00		150 x 110 x 40 4.8 kg	R900277610
	R900959202			

Distance plates with connections and 2 connection diagrams 06A with external port

(① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	HSZ 06-38096-ZA/M01		100 x 85 x 40	R901194844
	R901194753		2.5 kg Side F A+B G 1/4	
Sandwich plate	HSZ 06-26882-ZA/M01		100 x 85 x 40	R900781407
	R900780753		2.5 kg Side F A+B G 1/4	
Sandwich plate	HSZ 06-26560-ZA/M01		111 x 101 x 40	R900263217
	R900555049		3.2 kg Side F T G 1/2	

Extension plates (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information										
	Material no.		Weight											
			Size of the ports											
Version for stud screw + cap nut:														
Sandwich plate	HSZ 06-A480-3X/M00	<table><tr><td></td><td></td><td>①</td><td></td><td></td></tr><tr><td>P</td><td>A</td><td>②</td><td>B</td><td>T</td></tr></table>			①			P	A	②	B	T	65 x 44 x 40	R901050799
				①										
P	A	②	B	T										
	R901049947	0.8 kg												
Version for hexagon socket head cap screw:														
Sandwich plate	HSZ 06-A029-3X/M00	<table><tr><td></td><td></td><td>①</td><td></td><td></td></tr><tr><td>P</td><td>A</td><td>②</td><td>B</td><td>T</td></tr></table>			①			P	A	②	B	T	60 x 44 x 24	R900265210
				①										
P	A	②	B	T										
	R900534160	0.6 kg												

Hole pattern size 06A and fastening screws rotated by 180°

(① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	HSZ 06-26161-ZA/M00		90 x 65 x 70	R900778083
	R900967973		3.0 kg	

Functional group blocking function

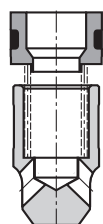
Example: **HSZ 06 A** – 3X/

Complementary details on sandwich plates with integrated blocking function (complete devices):

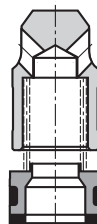
11
 **Cracking pressure** at the check valve Type M-SR8...: (installation kit) 1 bar = 05

12
 **Cracking pressure** at the check valve Type D7,8 0.5 bar = 05 BAR

Installation kit (version "P" and "T"):



Version "P" (cracking pressure 0.5 bar)	
Seal material	Material no.
NBR	R900543821
FKM	R900543824



Version "T" (cracking pressure 0.5 bar)	
Seal material	Material no.
NBR	R900543833
FKM	R900543836

12.1
 **Cracking pressure** at the check valve Type Z1S6...: (installation kit / sandwich plate)
Cracking pressure 0.5 bar = 1
Cracking pressure 3.0 bar = 2
Cracking pressure 5.0 bar = 3

13
 **Cracking pressure** at the check valve Type Z2S6...: (pilot operated)
Cracking pressure 1.5 bar = 1
Cracking pressure 3.0 bar = 2
Cracking pressure 7.0 bar = 3

14
 **Seal material**
NBR seals = no code
FKM seals = V
(other seals upon request)

⚠ Attention!

Observe compatibility of seals with hydraulic fluid used!

26
 **Solenoid voltage** at the directional valve:
Direct voltage 24 V = G24
Direct voltage 96 V = G96
Direct voltage 205 V = G205

26.1
 **Nominal voltage** at the coil
24 DC = G24
110 RAC = G110
220 RAC = G220

35.1
 **Manual override** at directional seat valve series K...
Without manual override = N0
Concealed manual override = N9
Screwable manual override = N11

Functional group blocking function

35.1


Manual override
at directional seat valve series OD.15...

- Without manual override
 - = 1A
 - = 3A
 - = 3I
- Screwable manual override
 - = 3M
 - = 3L
 - = 3D
- With manual override "pushing"
 - = 1B
 - = 1L
- with manual override "pushing",
Lockable in switched position
 - = 1C
 - = 1M

AC voltage mains (permissible voltage toler- ance ±10 %)	Nominal voltage of the DC solenoid in case of operation with alternating voltage	Ordering code
110 V - 50/60 Hz	96 V	G96
120 V - 60 Hz		
230 V - 50/60 Hz	205 V	G205

For the connection to AC voltage mains, a DC solenoid must be used, which is controlled via a rectifier (see table on the left).
In the case of individual connection, a mating connector with integrated rectifier can be used (separate order).

Functional group blocking function

Complementary details on check valves:

M-SR 8 KE ³¹ -1X/ (see page 24 and 25)

KE = Angle valve

³¹

00 = without spring
02 = 0.2 bar
05 = 0.5 bar
15 = 1.5 bar
30 = 3.0 bar
50 = 5.0 bar

RUECKSCHLAGVENTIL D 7,8- ³¹ / Z1S6T (see page 26)

³¹

0.5 BAR
3.0 BAR
5.0 BAR

For numbers: 400, 401, 402, 498, 517, 519, 525, 589 (see page 27 - 30)

VUCN-08A- 0431 ³¹20 0056 000

Flow from 1 to 2

³¹

00 = 1 bar
03 = 2.7 bar
05 = 5 bar
14 = 14 bar

VURN-08A- 0431 ³¹21 0056 000

Flow from 2 to 1

³¹

02 = 2 bar

For number: 490 (see page 29)

VUCN-08A- 0431 ³²23 0085 000

Flow from 1 to 2

³²

00 = 0.5 bar
05 = 5 bar
15 = 15 bar

VURN-08A- 0431 ³³27 0085 000

Flow from 2 to 1

³³

00 = 1 bar
02 = 2 bar

M-SR... check valves (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	HSZ 06 A185-3X/05M00 R900578929		100 x 44 x 40 1.3 kg	R900262198
Fitting of the sandwich plate:				
Check valve (installation kit)	M-SR8KE ³¹ ☐ -1X/ ¹⁴ ☐			RE 20380
Sandwich plate	HSZ 06 A200-3X/05M00 R900940993		100 x 44 x 40 1.3 kg	R900262199
Fitting of the sandwich plate:				
Check valve (installation kit)	M-SR8KE ³¹ ☐ -1X/ ¹⁴ ☐			RE 20380
Sandwich plate	HSZ 06 A186-3X/05M00 R900574366		90 x 44 x 40 1.2 kg	R900262220
Fitting of the sandwich plate:				
Check valve (installation kit)	M-SR8KE ³¹ ☐ -1X/ ¹⁴ ☐			RE 20380
Sandwich plate with R ring plate	HSZ 06A338-3X/05M00 R900702486		115 x 44 x 40 1.6 kg	R900265450
Fitting of the sandwich plate:				
Check valve (installation kit)	M-SR8KE ³¹ ☐ -1X/ ¹⁴ ☐			RE 20380
Sandwich plate with R ring plate	HSZ 06 A539-3X/05M00 R900737643		120 x 44 x 40 1.6 kg	R900266705
Fitting of the sandwich plate:				
Check valve (installation kit)	M-SR8KE ³¹ ☐ -1X/ ¹⁴ ☐			RE 20380
Sandwich plate with R ring plate	HSZ 06 A552-3X/05M00 R900536892		115 x 44 x 40 1.4 kg	R900265451
Fitting of the sandwich plate:				
Check valve (installation kit)	M-SR8KE ³¹ ☐ -1X/ ¹⁴ ☐			RE 20380
Sandwich plate with R ring plate	HSZ 06 A555-3X/05M00 R901268623		120 x 44 x 40 1.6 kg	R900266699
Fitting of the sandwich plate:				
Check valve (installation kit)	M-SR8KE ³¹ ☐ -1X/ ¹⁴ ☐			RE 20380

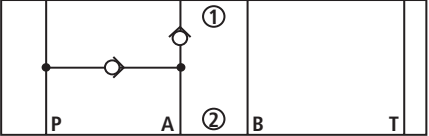
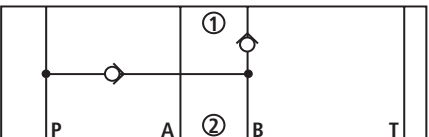
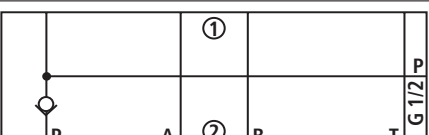
M-SR... check valves (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	HSZ 06A436-3X/05M01		120 x 44 x 80	R901064481
	R901064347		2.8 kg	
Fitting of the sandwich plate:			Side F X G 3/8	RE 20380
Sandwich plate	HSZ 06A450-3X/05-D08M01		94 x 44 x 40	R900738378
	R900736685		1.2 kg	Orifice 0.8 mm
Fitting of the sandwich plate:			Side E A G 1/4	RE 20380
Sandwich plate	HSZ 06-24441-AA/HM00		100 x 45 x 50	R901021478
	R900519658		0.8 kg	Orifice 1.2 mm + 0.8 mm
Fitting of the sandwich plate:				RE 20380
Check valve (installation kit)	M-SR8KE ³¹ ☐ -1X/ ¹⁴ ☐			

Order example

For complete device: **HSZ 06A 185-3X/** ¹¹☐ ²☐ ³☐

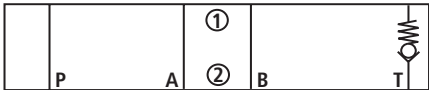
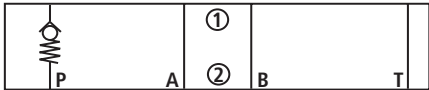
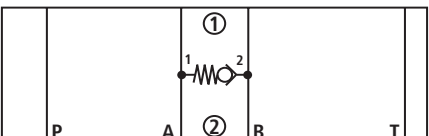
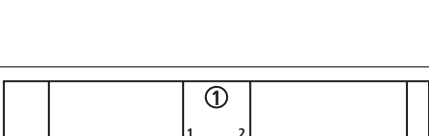
Check valves D7,8... (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	HSZ 06 A184-3X/ 05BARM00 R900555873		100 x 44 x 40 1.3 kg	R900262270
Fitting of the sandwich plate: Check valve D7,8- ³¹ -1X/ Z1S6T				
Sandwich plate	HSZ 06 A187-3X/ 05BARM00 R900935632		95 x 44 x 40 1.3 kg	R900266450
Fitting of the sandwich plate: Check valve D7,8- ³¹ -1X/ Z1S6T				
Sandwich plate	HSZ 06 A181-3X/ 05BARM01 R900559668		75 x 44 x 40 1.0 kg Side F P G 1/2	R900262263
Fitting of the sandwich plate: Check valve D7,8- ³¹ -1X/ Z1S6P				

Order example

For complete device: HSZ 06A 181-3X/ ¹²05BAR ²M ³01

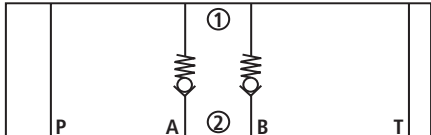
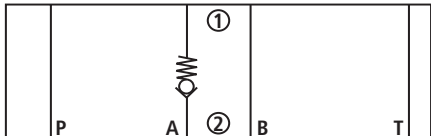
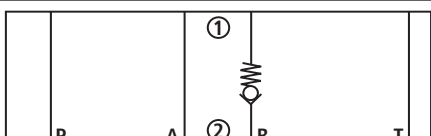
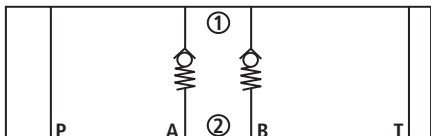
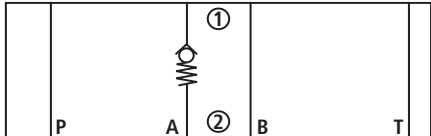
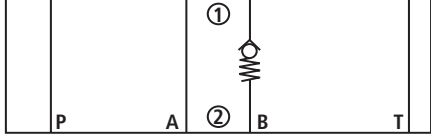
VUCN / VURN... check valves (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate with R ring plate	HSZ 06 A402-3X/ D00-A10RV20M00		220 x 44 x 70 2.9 kg	R901028338
	R901239257			
Fitting of the sandwich plate:				RE 90005-03
Check valve				
VUCN-08A- 0431200056 ³¹ 000			220 x 44 x 70 2.9 kg	R901028338
Sandwich plate with R ring plate	HSZ 06 A402-3X/ D00-B20RV21M00			
	R901239264			
Fitting of the sandwich plate:				RE 90005-03
Check valve				
VURN-08A- 0431210056 ³¹ 000			90 x 44 x 50 1.3 kg	R901120319
Sandwich plate	HSZ 06 A517-4X/ 20RV21M00			
	R901244318			
Fitting of the sandwich plate:				RE 90005-03
Check valve				
VURN-08A- 0431210056 ³¹ 000			90 x 44 x 50 1.3 kg	R901120319
Sandwich plate	HSZ 06 A517-4X/ 50RV20M00			
	R901244317			
Fitting of the sandwich plate:				RE 90005-03
Check valve				
VUCN-08A- 0431200056 ³¹ 000			85 x 44 x 70 1.8 kg	R901123599 Internal thread M8
Sandwich plate	HSZ 06 A519-4X/ 10RV2000M00			
	R901171566			
Fitting of the sandwich plate:				RE 90005-03
Check valve				
VUCN-08A- 0431200056 ³¹ 000			85 x 44 x 70 1.8 kg	R901123599 Internal thread M8
Sandwich plate	HSZ 06 A519-4X/ 20RV2100M00			
	R901249904			
Fitting of the sandwich plate:				RE 90005-03
Check valve				
VUCN-08A- 0431210056 ³¹ 000				

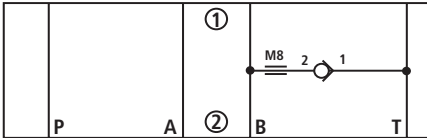
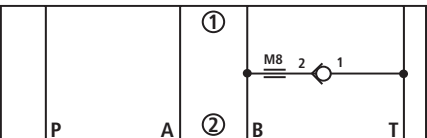
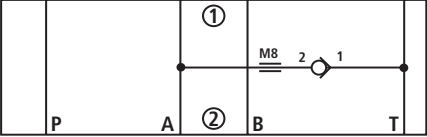
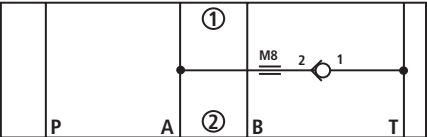
VUCN / VURN... check valves (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate with R ring plate	HSZ 06 A400-3X/ D05-A10RV20M00		150 x 44 x 70	R901172127
	R901172118		3.5 kg	Orifice 0.5 mm
Fitting of the sandwich plate:				
Check valve				
VUCN-08A- 0431200056 ³¹ 000			RE 90005-03	
Sandwich plate with R ring plate	HSZ 06 A401-3X/ D15-A10RV20M00		150 x 44 x 70	R900767874
	R900767867		3.5 kg	Orifice 1.5 mm
Fitting of the sandwich plate:				
Check valve				
VUCN-08A- 0431200056 ³¹ 000			RE 90005-03	
Sandwich plate with R ring plate	HSZ 06 A498-3X/ 10RV20M00		80 x 44 x 50	R901121122
	R901247477		1.5 kg	
Fitting of the sandwich plate:				
Check valve				
VUCN-08A- 0431200056 ³¹ 000			RE 90005-03	
Check valve D7,8- ³¹ -1X/ Z1S6T				RE 90005-03
Sandwich plate with R ring plate	HSZ 06 A498-3X/ 20RV21M00		80 x 44 x 50	R901121122
	R901247400		1.5 kg	
Fitting of the sandwich plate:				
Check valve				
VURN-08A- 0431210056 ³¹ 000				RE 90005-03
Check valve D7,8- ³¹ -1X/ Z1S6T				RE 90005-03

VUCN / VURN... check valves (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	HSZ 06 A490-3X/ AB-10RV27M00		105 x 44 x 70 2.3 kg	R901094055
	R901247695			
Fitting of the sandwich plate: Check valve				
VURN-10A- 0431270085 ³³ 000				RE 90005-03
Sandwich plate	HSZ 06 A490-3X/ A-10RV27M00		105 x 44 x 70 2.2 kg	R901094055
	R901265661			
Fitting of the sandwich plate: Check valve				
VURN-10A- 0431270085 ³³ 000				RE 90005-03
Sandwich plate	HSZ 06 A490-3X/ B-10RV27M00		105 x 44 x 70 2.2 kg	R901094055
	R901265662			
Fitting of the sandwich plate: Check valve				
VURN-10A- 0431270085 ³³ 000				RE 90005-03
Sandwich plate	HSZ 06 A490-3X/ AB-05RV23M00		105 x 44 x 70 2.3 kg	R901094055
	R901247694			
Fitting of the sandwich plate: Check valve				
VUCN-10A- 0431230085 ³² 000				RE 90005-03
Sandwich plate	HSZ 06 A490-3X/ A-05RV23M00		105 x 44 x 70 2.2 kg	R901094055
	R901265660			
Fitting of the sandwich plate: Check valve				
VUCN-10A- 0431230085 ³² 000				RE 90005-03
Sandwich plate	HSZ 06 A490-3X/ B-05RV23M00		105 x 44 x 70 2.2 kg	R901094055
	R901265652			
Fitting of the sandwich plate: Check valve				
VUCN-10A- 0431230085 ³² 000				RE 90005-03

VUCN / VURN... check valves (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information	
	Material no.		Weight Size of the ports		
Sandwich plate with R ring plate	HSZ 06 A525-4X/ 10RV20M00		90 x 44 x 60 1.7 kg	R901130409 Internal thread M8	
	R901247481				
Fitting of the sandwich plate: Check valve					
VUCN-08A- 0431200056 ³¹ 000				RE 90005-03	
Sandwich plate with R ring plate	HSZ 06 A525-4X/ 20RV21M00		90 x 44 x 60 1.7 kg	R901130409 Internal thread M8	
	R901247479				
Fitting of the sandwich plate: Check valve					
VURN-08A- 0431210056 ³¹ 000				RE 90005-03	
Sandwich plate with R ring plate	HSZ 06 A589-4X/ 10RV20M00		90 x 44 x 60 1.7 kg	R901129876 Internal thread M8	
	R901247486				
Fitting of the sandwich plate: Check valve					
VUCN-08A- 0431200056 ³¹ 000				RE 90005-03	
Sandwich plate with R ring plate	HSZ 06 A589-4X/ 20RV21M00		90 x 44 x 60 1.7 kg	R901129876 Internal thread M8	
	R901247485				
Fitting of the sandwich plate: Check valve					
VURN-08A- 0431210056 ³¹ 000				RE 90005-03	

Functional group blocking function

Complementary details on check valves Z1S6 -:

Z1S 6 ☐ ³¹ ☐ ³² -4X/V (see page 32 - 34)

³¹ Straight-through valve

☐ Flow direction in the channel:

A (A2 → A1)	= A
B (B2 → B1)	= B
A (A1 → A2)	= C
B (B1 → B2)	= D
A and B (A1 → A2) and (B1 → B2)	= E
P and T (P2 → P1) and (T1 → T2)	= F
P (P2 → P1)	= P
T (T1 → T2)	= T

Angle valve

Flow direction:

B → A	= B-A
T → P	= T-P
AB → P	= AB-P

³² Cracking pressure

☐	
0.5 bar [7.25 psi]	= 05
1.5 bar [21.76 psi]	= 15
3.0 bar [43.51 psi]	= 30
5.0 bar [72.52]	= 50

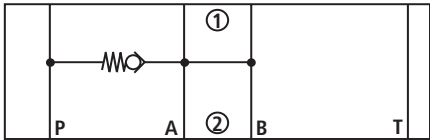
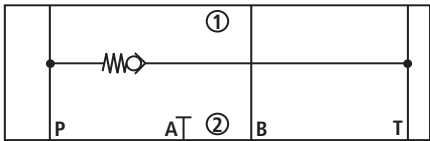
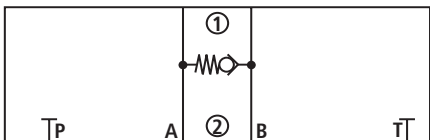
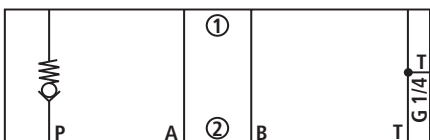
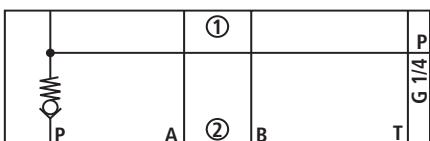
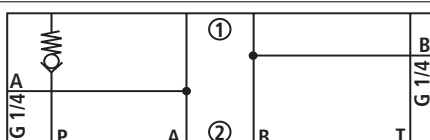
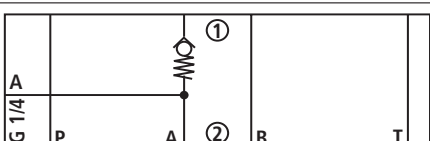
Special version

Without	= no code
Measuring port P (G1/4)	= SO68
Measuring port A and B (G1/4)	= SO90
Measuring port T (G1/4)	= SO2
Orifice Ø 1 in the poppet	= SO110
Flow against P normal valve	= SO104
With spring 023683 for p ₀ = 0.8 bar	= SO115
SO 68 but P port G1/4 on side A	= SO118
Orifice Ø 0.6 in the poppet	= SO119
0.5 bar spring in P, 5.0 bar spring in T	= SO107
0.5 bar spring in P, 5.0 bar spring in T	= SO111

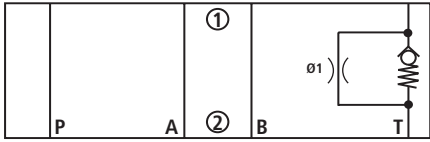
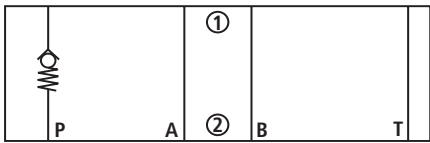
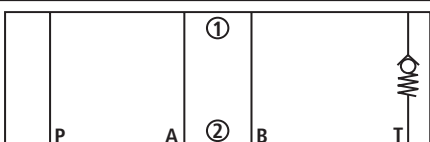
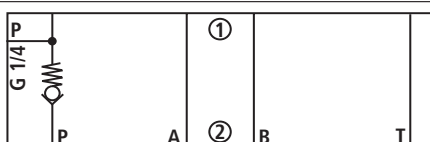
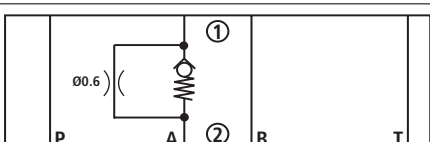
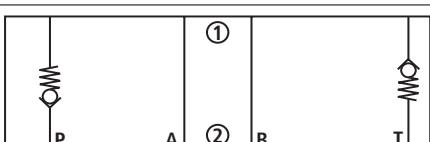
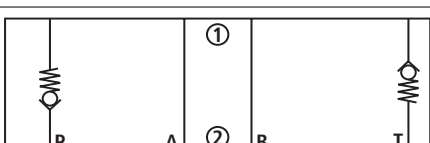
Z1S6- check valves (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	Z1S6 ³¹ A ³² 05 -4X/V R901086070		64 x 44 x 40 0.78 kg	R901036983 RE 21534
	Z1S6 ³¹ P ³² 05 -4X/V R901086051		64 x 44 x 40 0.78 kg	R901036983 RE 21534
Sandwich plate	Z1S6 ³¹ E ³² 05 -4X/V R901085992		64 x 44 x 40 0.78 kg	R901036983 RE 21534
	Z1S6 ³¹ C ³² 05 -4X/V R901086081		64 x 44 x 40 0.78 kg	R901036983 RE 21534
Sandwich plate	Z1S6 ³¹ D ³² 05 -4X/V R901086090		64 x 44 x 40 0.78 kg	R901036983 RE 21534
	Z1S6 ³¹ B ³² 05 -4X/V R901086077		64 x 44 x 40 0.78 kg	R901036983 RE 21534
Sandwich plate	Z1S6 ³¹ T ³² 05 -4X/V R901086058		64 x 44 x 80 0.78 kg	R901036983 RE 21534
	Z1S6 ³¹ F ³² 05 -4X/V R901086037		64 x 44 x 40 0.78 kg	R901036983 RE 21534

Z1S6- check valves (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	Z1S6 ³¹ AB-P ³² 05 -4X/V R901140893		64 x 44 x 40 0.77 kg	R901036983 RE 21534
	Z1S6 ³¹ T-P ³² 05 -4X/V R901140890		64 x 44 x 40 0.78 kg	R901036983 RE 21534
Sandwich plate	Z1S6 ³¹ B-A ³² 05 -4X/V R901140895		64 x 44 x 40 0.78 kg	R901036983 RE 21534
Sandwich plate	Z1S6 ³¹ P ³² 05 -4X/V SO2 R901086597		64 x 44 x 40 0.76 kg Side F T G 1/4	R901036983 RE 21534
Sandwich plate	Z1S6 ³¹ P ³² 05 -4X/V SO68 R901086600		64 x 44 x 40 0.76 kg Side F P G 1/4	R901036983 RE 21534
Sandwich plate	Z1S6 ³¹ P ³² 05 -4X/V SO90 R901086601		64 x 44 x 40 0.74 kg Side E Side F A B G 1/4 G 1/4	R901036983 RE 21534
Sandwich plate	Z1S6 ³¹ C ³² 05 -4X/V SO68 R901188060		64 x 44 x 40 0.76 kg Side E A G 1/4	R901036983 RE 21534

Z1S6- check valves (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	Z1S6 ³¹ T ³² 30 -4X/V SO110 R901086618		64 x 44 x 40 0.76 kg	R901036983 RE 21534
Sandwich plate	Z1S6 ³¹ P ³² 05 -4X/V SO104 R901086591		64 x 44 x 40 0.78 kg	R901036983 RE 21534
Sandwich plate	Z1S6 ³¹ T ³² 05 -4X/V SO115 R901086616		64 x 44 x 40 0.76 kg	R901036983 RE 21534
Sandwich plate	Z1S6 ³¹ P ³² 05 -4X/V SO118 R901086592		64 x 44 x 40 0.76 kg Side E P G 1/4	R901036983 RE 21534
Sandwich plate	Z1S6 ³¹ C ³² 05 -4X/V SO119 R901086581		64 x 44 x 40 0.76 kg	R901036983 RE 21534
Sandwich plate	Z1S6 ³¹ F ³² 05 -4X/V SO107 R901086586		64 x 44 x 40 0.80 kg	R901036983 RE 21534
Sandwich plate	Z1S6 ³¹ F ³² 05 -4X/V SO111 R901086587		64 x 44 x 40 0.80 kg	R901036983 RE 21534

Functional group blocking function

Complementary details on check valves Z2S6 -:

Z2S 6 ³¹ ³² -6X ³³ ³⁴ ³⁵ (see page 36 - 37)

31 Leak-free blocking in channel A and B = -
 Leak-free blocking in channel A = A
 Leak-free blocking in channel B = B

32 **Cracking pressure**
 1.5 bar [21.7 psi] = 1
 3.0 bar [43.5 psi] = 2
 6.0 bar [86.0] = 3

33 **Seal material**
 NBR seals = no code
 FKM seals = V

34 **Without** locating hole = no code
 With locating hole = /60
 With locating hole and locating pin ISO 8752-3x8-St = /62

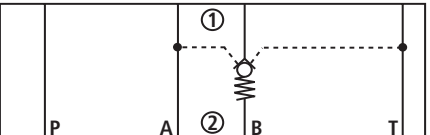
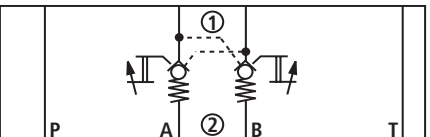
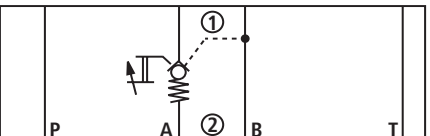
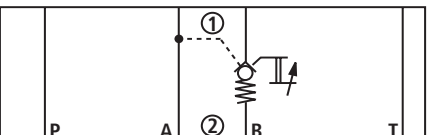
35 **Special version**

Without = no code
Control open by external port G1/4 (only version "A" and "B") = SO40
with pre-opening = SO55
Control spool to "T" port unloaded = SO60
With pre-opening and control open from channel "P" = SO150
Valve poppet lapped = SO46
Insert side A = 3- = SO49
Insert side B = 1- = SO43
Valve seat hardened + ground = SO43
Mech. control open! Size 6 DIN 4 VP = SO18
SO 18, however with hand wheel = SO71
Function like SV valve; control open from A and/or B, depending on the installation of the isolator valve unit = SO53

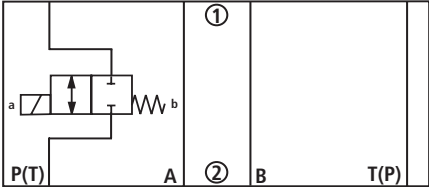
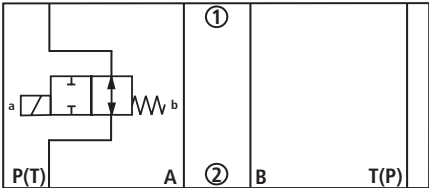
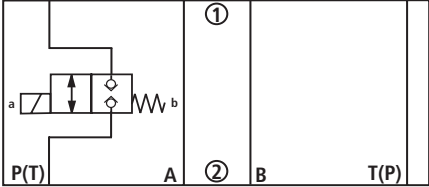
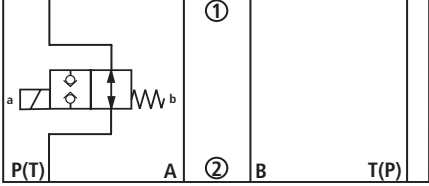
Z2S6- check valves (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	Z2S6 31 32 -6X/ 33 34 35		80 x 44.5 x 40 0.96 kg	RE 21548
Sandwich plate	Z2S6 A 32 -6X/ 33 34 35		80 x 44.5 x 40 0.94 kg	RE 21548
Sandwich plate	Z2S6 B 32 -6X/ 33 34 35		80 x 44.5 x 40 0.94 kg	RE 21548
Sandwich plate	Z2S6 31 32 -6X/ 33 34 SO150		80 x 44.5 x 40 1.02 kg	RE 21548
Sandwich plate	Z2S6 A 32 -6X/ 33 34 SO40		80 x 44.5 x 40 0.94 kg	RE 21548
Sandwich plate	Z2S6 B 32 -6X/ 33 34 SO40		80 x 44.5 x 40 0.94 kg	RE 21548
Sandwich plate	Z2S6 31 32 -6X/ 33 34 SO60		80 x 44.5 x 40 0.94 kg	RE 21548
Sandwich plate	Z2S6 A 32 -6X/ 33 34 SO60		80 x 44.5 x 40 0.94 kg	RE 21548

Z2S6- check valves (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	Z2S6 31 32 -6X/ 33 34 35 SO60		80 x 44.5 x 40 0.94 kg	RE 21548
	Z2S6 31 32 -6X/ 33 34 SO18		80 x 44.5 x 40 1.02 kg	RE 21548
Sandwich plate	Z2S6 31 32 -6X/ 33 34 SO18		80 x 44.5 x 40 0.94 kg	RE 21548
Sandwich plate	Z2S6 31 32 -6X/ 33 34 SO18		80 x 44.5 x 40 0.94 kg	RE 21548

Blocking function, electrically switchable (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet
	Material no.		Weight Size of the ports	and more information
Sandwich plate	HSZ 06 A637-3X/ KKDENG24N0K4V00		100 x 44 x 60	R901244695
	R901245973		3.015 kg	Valve on side E RE 18136-06
Sandwich plate	HSZ 06 A637-3X/ KKDEPG24N0K4V00		100 x 44 x 60	R901244695
	R901245975		3.015 kg	Valve on side E RE 18136-06
Sandwich plate	HSZ 06 A637-3X/ KSDENG24N0K4V00		100 x 44 x 60	R901244695
	R901245974		3.015 kg	Valve on side E RE 18136-20
Sandwich plate	HSZ 06 A637-3X/ KSDEPG24N0K4V00		100 x 44 x 60	R901244695
	R901245976		3.015 kg	Valve on side E RE 18136-20

Blocking function, electrically switchable (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	HSZ 06A 484-3X/AS1N-BS1NG24 ^{35.1} K4M00		101 x 44 x 50	R901034814
	Fitting of the sandwich plate: 2/2 directional seat valve KSDER1NA/HCG24 ^{35.1} K4V		2.4 kg	Valve on side E and F RE 18136-20
Sandwich plate	HSZ 06A 484-3X/AS1NG24 ^{35.1} K4M00		101 x 44 x 50	R901034814
	Fitting of the sandwich plate: 2/2 directional seat valve KSDER1NA/HCG24 ^{35.1} K4V		2.0 kg	Valve on side E RE 18136-20
Sandwich plate	HSZ 06A 484-3X/BS1NG24 ^{35.1} K4M00		101 x 44 x 50	R901034814
	Fitting of the sandwich plate: 2/2 directional seat valve KSDER1NA/HCG24 ^{35.1} K4V		2.0 kg	Valve on side F RE 18136-20
Sandwich plate	HSZ 06A 484-3X/AS1P-BS1PG24 ^{35.1} K4M00		101 x 44 x 50	R901034814
	Fitting of the sandwich plate: 2/2 directional seat valve KSDER1PA/HCG24 ^{35.1} K4V		2.4 kg	Valve on side E and F RE 18136-20
Sandwich plate	HSZ 06A 484-3X/AS1PG24 ^{35.1} K4M00		101 x 44 x 50	R901034814
	Fitting of the sandwich plate: 2/2 directional seat valve KSDER1PA/HCG24 ^{35.1} K4V		2.0 kg	Valve on side E RE 18136-20
Sandwich plate	HSZ 06A 484-3X/BS1PG24 ^{35.1} K4M00		101 x 44 x 50	R901034814
	Fitting of the sandwich plate: 2/2 directional seat valve KSDERPA/HCG24 ^{35.1} K4V		2.0 kg	Valve on side F RE 18136-20

Attention: $q_{V \max} = 20 \text{ l/min}$

Order example

For complete device with **two** seat valves:

HSZ 06A 484-3X/ AS1N- BS1NG24 ^{35.1} K4M00
Effective in channel A and B

Blocking function, electrically switchable (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	HSZ 06A 490-3X/AB-A05 ²⁶ ☐ K4M00		105 x 44 x 70	R901094055
Fitting of the sandwich plate: SITZVENTIL OD.15.05.36.3A.S0.000			3.1 kg	Valve on side E and F
SPULE OD.02.17.01.30. ^{26.1} ☐ .000				RE 90005-03
Sandwich plate	HSZ 06A 490-3X/A-A05 ²⁶ ☐ K4M00		105 x 44 x 70	R901094055
Fitting of the sandwich plate: SITZVENTIL OD.15.05.36.3A.S0.000			2.7 kg	Valve on side E
SPULE OD.02.17.01.30. ^{26.1} ☐ .000				RE 90005-03
Sandwich plate	HSZ 06A 490-3X/B-A05 ²⁶ ☐ K4M00		105 x 44 x 70	R901094055
Fitting of the sandwich plate: SITZVENTIL OD.15.05.36.3A.S0.000			2.7 kg	Valve on side F
SPULE OD.02.17.01.30. ^{26.1} ☐ .000				RE 90005-03
Sandwich plate	HSZ 06A 490-3X/AB-A06 ²⁶ ☐ K4M00		105 x 44 x 70	R901094055
Fitting of the sandwich plate: SITZVENTIL OD.15.06.36.1A.S0.000			3.1 kg	Valve on side E and F
SPULE OD.02.17.01.30. ^{26.1} ☐ .000				RE 90005-03
Sandwich plate	HSZ 06A 490-3X/A-A06 ²⁶ ☐ K4M00		105 x 44 x 70	R901094055
Fitting of the sandwich plate: SITZVENTIL OD.15.06.36.1A.S0.000			2.7 kg	Valve on side E
SPULE OD.02.17.01.30. ^{26.1} ☐ .000				RE 90005-03
Sandwich plate	HSZ 06A 490-3X/B-A06 ²⁶ ☐ K4M00		105 x 44 x 70	R901094055
Fitting of the sandwich plate: SITZVENTIL OD.15.06.36.1A.S0.000			2.7 kg	Valve on side F
SPULE OD.02.17.01.30. ^{26.1} ☐ .000				RE 90005-03

$q_{V \max}$ seat valve = 70 l/min

Order example for complete device with **two** seat valves normally closed, blocking on one side:

HSZ 06A 490-3X/ AB-A05 ²⁶ ☐ K4M00

Effective in channel A and B

Blocking function, electrically switchable (① = component side, ② = plate side)

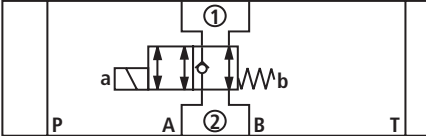
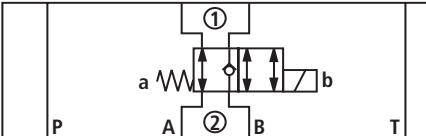
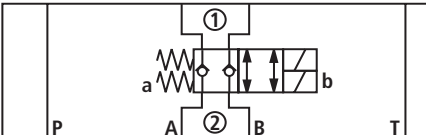
Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	HSZ 06A 490-3X/AB-B05 ²⁶ K4M00		105 x 44 x 70	R901094055
Fitting of the sandwich plate:	SITZVENTIL OD.15.31.36.3A.S0.000		3.1 kg	Valve on side E and F
	SPULE OD.02.17.01.30. ^{26.1} 000			RE 90005-03
Sandwich plate	HSZ 06A 490-3X/A-B05 ²⁶ K4M00		105 x 44 x 70	R901094055
Fitting of the sandwich plate:	SITZVENTIL OD.15.31.36.3A.S0.000		2.7 kg	Valve on side E
	SPULE OD.02.17.01.30. ^{26.1} 000			RE 90005-03
Sandwich plate	HSZ 06A 490-3X/B-B05 ²⁶ K4M00		105 x 44 x 70	R901094055
Fitting of the sandwich plate:	SITZVENTIL OD.15.31.36.3A.S0.000		2.7 kg	Valve on side F
	SPULE OD.02.17.01.30. ^{26.1} 000			RE 90005-03
Sandwich plate	HSZ 06A 490-3X/AB-B06 ²⁶ K4M00		105 x 44 x 70	R901094055
Fitting of the sandwich plate:	SITZVENTIL OD.15.32.36.1A.S0.000		3.1 kg	Valve on side E and F
	SPULE OD.02.17.01.30. ^{26.1} 000			RE 90005-03
Sandwich plate	HSZ 06A 490-3X/A-B06 ²⁶ K4M00		105 x 44 x 70	R901094055
Fitting of the sandwich plate:	SITZVENTIL OD.15.32.36.1A.S0.000		2.7 kg	Valve on side E
	SPULE OD.02.17.01.30. ^{26.1} 000			RE 90005-03
Sandwich plate	HSZ 06A 490-3X/B-B06 ²⁶ K4M00		105 x 44 x 70	R901094055
Fitting of the sandwich plate:	SITZVENTIL OD.15.32.36.1A.S0.000		2.7 kg	Valve on side F
	SPULE OD.02.17.01.30. ^{26.1} 000			RE 90005-03

Order example

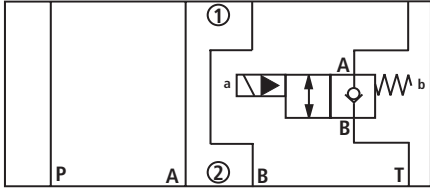
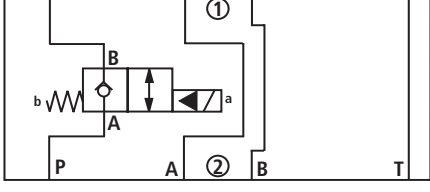
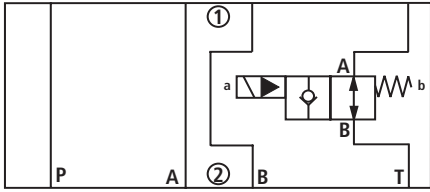
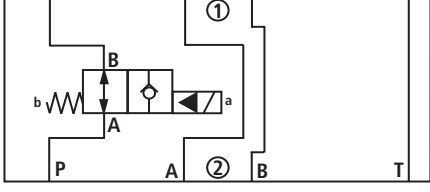
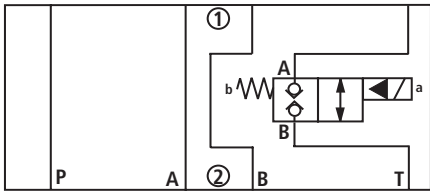
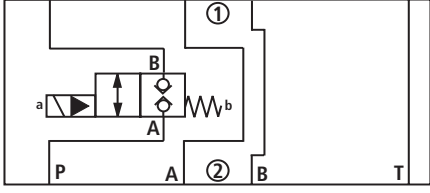
For complete device with **one** seat valve normally closed, blocking on both sides:

HSZ 06A 490-3X/ A-B05 ²⁶ K4M00
Effective in channel A

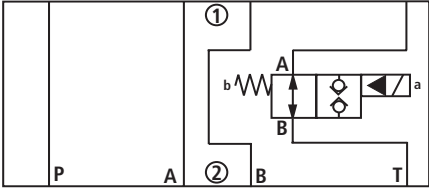
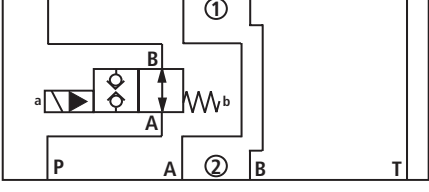
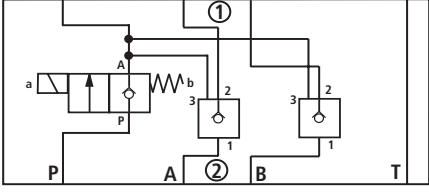
Blocking function, electrically switchable (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	M-Z4SE 6 A1X/C ²⁶ K4		100 x 45 x 40 1.5 kg	R900270194
Amend type designation according to page 19!				
Sandwich plate	M-Z4SE 6 B1X/C ²⁶ K4		100 x 45 x 40 1.5 kg	R900270194
Amend type designation according to page 19!				
Sandwich plate	M-Z4SE 6 E1X/C ²⁶ K4		100 x 45 x 40 1.5 kg	R900270194
Amend type designation according to page 21!				

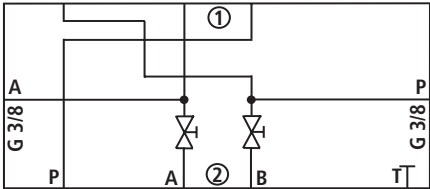
Blocking function, electrically switchable (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	HSZ 06 A402-31/ D00-A05G24K4M00		150 x 44 x 70 3.3 kg	R901028338 RE 90005-03
	R901177164			
	Blocking function discharge →			
Sandwich plate	HSZ 06 A402-31/ D00-A06G24K4M00		150 x 44 x 70 3.3 kg	R901028338 RE 90005-03
	R901028324			
	Blocking function discharge →			
Sandwich plate	HSZ 06 A402-31/ D00-B05G24K4M00		150 x 44 x 70 3.3 kg	R901028338 RE 90005-03
	R901238212			
	Blocking function discharge →			
Sandwich plate	HSZ 06 A402-31/ D00-B05G24K4M00		150 x 44 x 70 3.3 kg	R901028338 RE 90005-03
	R901238212			
	Blocking function discharge →			
Sandwich plate	HSZ 06 A402-31/ D00-B05G24K4M00		150 x 44 x 70 3.3 kg	R901028338 RE 90005-03
	R901238212			
	Blocking function discharge →			
Sandwich plate	HSZ 06 A402-31/ D00-B05G24K4M00		150 x 44 x 70 3.3 kg	R901028338 RE 90005-03
	R901238212			
	Blocking function discharge →			

Blocking function, electrically switchable (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet
	Material no.		Weight	and more information
Sandwich plate	HSZ 06 A402-31/ D00-B06G24K4M00 R901238214		150 x 44 x 70	R901028338
	Blocking function discharge →		3.3 kg	RE 90005-03
Sandwich plate	HSZ 06-26787-AA/ G24N9K4M00-403 R900976030		160 x 50 x 100	R900243054
	Blocking function supply →		6.0 kg	Valve on side F RE 18136-04
Sandwich plate	HSZ 06-38019-AA/ G243AK4M00 R901109224		170 x 70 x 130	R901112789
			11.5 kg	Valve on side F RE 90005-03

Blocking function, mechanically actuated (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight	
			Size of the ports	
Sandwich plate	HSZ 06-26623-AA/HM01		120 x 44 x 80	R900269045
	R900914093		3.2 kg	

Functional group pressure function

Example: HSZ 06 A

1

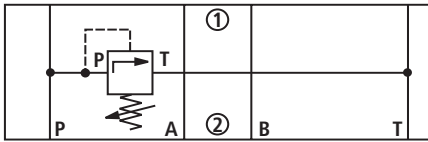
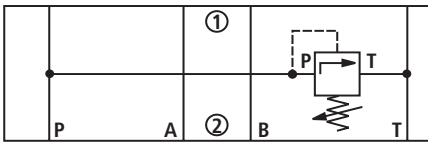
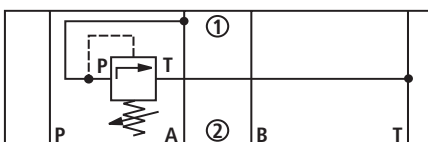
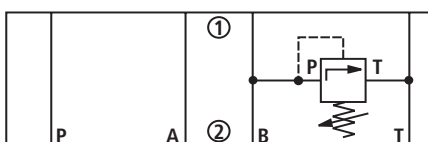
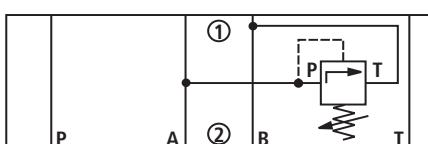
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15	16	2	3
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Complementary details on sandwich plates with integrated pressure function (complete devices):

14 ☐	Seal material ⚠ Attention! Observe compatibility of seals with hydraulic fluid used!	NBR seals FKM seals (other seals upon request)	= no code = V
15 ☐	Adjustment element at the pressure relief valve Type DBD..6...:	Setscrew with hexagon and protective cap Rotary knob Lockable rotary knob	= S 1) = H 1) Please observe the installa- 1) = A tion dimensions!
16 ☐	Setting pressure at the pressure relief valve Type DBD..6...: ⚠ Attention! Spelling () with complete type!	up to 25 bar up to 50 bar up to 100 bar up to 200 bar up to 315 bar	= 25 (025) = 50 (050) = 100 = 200 = 315
37 ☐	Adjustment element at the pressure reducing valve Type DR10K... :	Rotary knob Bushing with hexagon and protective cap Lockable rotary knob with scale Rotary knob with scale	= 4 = 5 = 6 = 7
38 ☐	Setting pressure at the pressure reducing valve Type DR10K... : ⚠ Attention! Spelling () with complete type!	Secondary pressure up to 50 bar up to 100 bar up to 200 bar up to 315 bar	= 50 (050) = 100 = 200 = 315

Pressure relief valves, direct operated (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate Fitting of the sandwich plate: Pressure relief valve, direct operated	HSZ 06A 100-3X/ ¹⁵ ☐ ¹⁶ ☐ M00		120 x 44 x 50 1.9 kg	R900262303 RE 25402 DBD on side E
	DBD ¹⁵ ☐ 6K1X/ ¹⁶ ☐ ¹⁴ ☐			
Sandwich plate Fitting of the sandwich plate: Pressure relief valve, direct operated	HSZ 06A 101-3X/ ¹⁵ ☐ ¹⁶ ☐ M00		120 x 44 x 50 1.9 kg	R900262304 RE 25402 DBD on side F
	DBD ¹⁵ ☐ 6K1X/ ¹⁶ ☐ ¹⁴ ☐			
Sandwich plate Fitting of the sandwich plate: Pressure relief valve, direct operated	HSZ 06A 106-3X/ ¹⁵ ☐ ¹⁶ ☐ M00		120 x 44 x 50 1.9 kg	R900262265 RE 25402 DBD on side E
	DBD ¹⁵ ☐ 6K1X/ ¹⁶ ☐ ¹⁴ ☐			
Sandwich plate Fitting of the sandwich plate: Pressure relief valve, direct operated	HSZ 06A 107-3X/ ¹⁵ ☐ ¹⁶ ☐ M00		120 x 44 x 50 1.9 kg	R900262266 RE 25402 DBD on side F
	DBD ¹⁵ ☐ 6K1X/ ¹⁶ ☐ ¹⁴ ☐			
Sandwich plate Fitting of the sandwich plate: Pressure relief valve, direct operated	HSZ 06A 102-3X/ ¹⁵ ☐ ¹⁶ ☐ M00		105 x 44 x 70 2.3 kg	R900262259 RE 25402 DBD on side F
	DBD ¹⁵ ☐ 6K1X/ ¹⁶ ☐ ¹⁴ ☐			

Pressure relief valves, direct operated (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	HSZ 06A 118-3X/ ¹⁵ ☐ ¹⁶ ☐ M00		105 x 44 x 70	R900265626
Fitting of the sandwich plate: Pressure relief valve, direct operated	DBD ¹⁵ ☐ 6K1X/ ¹⁶ ☐ ¹⁴ ☐		2.3 kg	RE 25402 DBD on side E
Sandwich plate with R ring plate	HSZ 06A 117-3X/ ¹⁵ ☐ ¹⁶ ☐ M01		120 x 44 x 50	R900262260
Fitting of the sandwich plate: Pressure relief valve, direct operated	DBD ¹⁵ ☐ 6K1X/ ¹⁶ ☐ ¹⁴ ☐		1.9 kg Side F T G 1/4	RE 25402 DBD on side E
Sandwich plate	HSZ 06A 114-3X/ ¹⁵ ☐ ¹⁶ ☐ M01		120 x 44 x 50	R900262261
Fitting of the sandwich plate: Pressure relief valve, direct operated	DBD ¹⁵ ☐ 6K1X/ ¹⁶ ☐ ¹⁴ ☐		1.9 kg Side F P G 1/4	RE 25402 DBD on side E

Order example

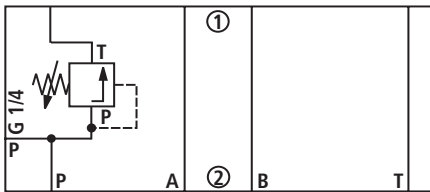
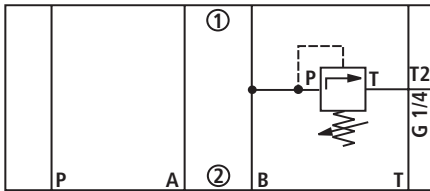
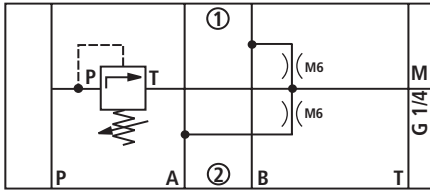
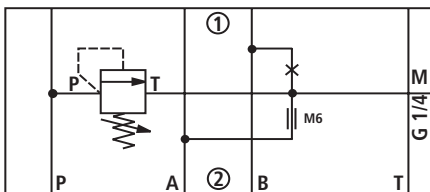
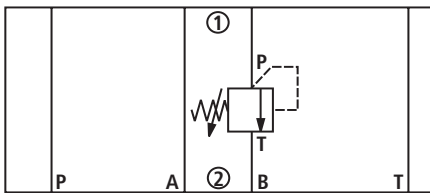
For complete device with **one** pressure relief valve: HSZ 06A 100-3X/ ¹⁵ ☐ ¹⁶ ☐ ² ☐ ³ ☐ M00

Sandwich plate	HSZ 06A 105-3X/A ¹⁵ ☐ ¹⁶ ☐ -B ¹⁵ ☐ ¹⁶ ☐ M00		150 x 44 x 50	R900262262
Fitting of the sandwich plate: Pressure relief valve, direct operated	DBD ¹⁵ ☐ 6K1X/ ¹⁶ ☐ ¹⁴ ☐		2.5 kg	RE 25402 DBD on side E and F
Sandwich plate	HSZ 06A 108-3X/A ¹⁵ ☐ ¹⁶ ☐ -B ¹⁵ ☐ ¹⁶ ☐ M00		150 x 44 x 70	R900262255
Fitting of the sandwich plate: Pressure relief valve, direct operated	DBD ¹⁵ ☐ 6K1X/ ¹⁶ ☐ ¹⁴ ☐		3.5 kg	RE 25402 DBD on side E and F

Order example

For complete device with **two** pressure relief valves: HSZ 06A 105-3X/ A ¹⁵ ☐ ¹⁶ ☐ ² ☐ ³ ☐ M00 -B ¹⁵ ☐ ¹⁶ ☐ ² ☐ ³ ☐ M00
Secured channel

Pressure relief valves, direct operated (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	HSZ 06A 137-3X/ ¹⁵ ¹⁶ M01		120 x 44 x 50	R900266371
			1.9 kg	RE 25402 DBD on side E
Sandwich plate	HSZ 06A 142-3X/ ¹⁵ ¹⁶ M01		105 x 44 x 70	R901115256
				RE 25402 DBD on side F
Sandwich plate	HSZ 06-13712-AA/ HM01		125 x 60 x 50	R900741553
	R900501862 with pressure valves * DBDS6K1X/315		3.0 kg	2x orifice 0.8 mm RE 25402 DBD on side F
Sandwich plate	HSZ 06-13712-BA/ HM01		125 x 60 x 50	R901013240
	R901013240 with pressure valves * DBDS6K1X/50		3.0 kg	Internal thread M6 RE 25402 DBD on side F
Sandwich plate	HSZ 06-38007-AA/ HM00		120 x 44 x 60	R901195281
	R901098086 with pressure valves * DBDS6K1X/50		2.2 kg	RE 25402 DBD on side F

* Other pressure stages upon request

Pressure reducing valves, pilot operated (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	HSZ 06A 550-3X/ ³⁷ □ - ³⁸ □ M01		120 x 44 x 90	R900262760
Fitting of the sandwich plate: Pressure re- ducing valve, pilot operated	DR10K ³⁷ □ - 3X/ ³⁸ □ YM		3.6 kg Side E Side F Y P G 1/4 G 1/4	RE 26850 DR on side E

Order example

For complete device: HSZ 06A 550-3X/ ³⁷5 - ³⁸050 ²M ³01

Pressure reducing valves, direct operated (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	HSZ 06 A492-3X/ KRD2F2AB/LVM01 R901110168 with pressure valve * KRD2F2AB/LV		130 x 44 x 60 2.5 kg	R901110332 RE 18111-03 KRD on side E
Sandwich plate	HSZ 06 A492-3X/ KRD2L2AB/LVM01 R901138734 with pressure valve * KRD2L2AB/LV		130 x 44 x 60 2.5 kg	R901110332 RE 18111-03 KRD on side E

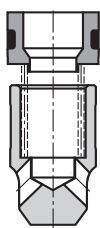
* Other pressure stages upon request

Functional group combination pressure and blocking function

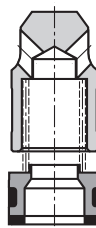
Example lowering brake function: **HSZ 06 A** ¹ – **3X/L** ³⁹ ⁴⁵ ² ³

Complementary details on sandwich plates with integrated pressure and blocking function (complete devices):

15 	Adjustment element at the pressure relief valve Type DBD..6...:	Setscrew with hexagon and protective cap Rotary knob Lockable rotary knob	= S ¹⁾ = H ¹⁾ = A	¹⁾ Please observe the installation dimensions!
16 	Setting pressure at the pressure relief valve Type DBD..6...:	up to 25 bar up to 50 bar up to 100 bar up to 200 bar up to 315 bar	= 25 = 50 = 100 = 200 = 315	(025) (050)
12 	Cracking pressure at the check valve Type D7, 8...:	0.5 bar	= 05BAR	
Installation kit (version "P" and "T"):				



Version "P" (cracking pressure 0.5 bar)	
Seal material	Material no.
NBR	R900543821
FKM	R900543824

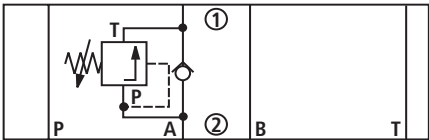
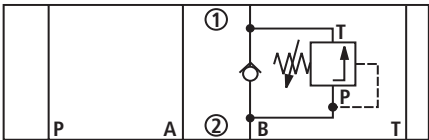


Version "T" (cracking pressure 0.5 bar)	
Seal material	Material no.
NBR	R900543833
FKM	R900543836

14 	Seal material Attention! Observe compatibility of seals with hydraulic fluid used!	NBR seals FKM seals (other seals upon request)	= no code = V	
11 	Cracking pressure at the check valve Type M-SR8...: (installation kit)	without spring 0.2 bar 1.0 bar 1.5 bar 3.0 bar 5.0 bar	= 00 = 02 = 05 = 15 = 30 = 50	
44 	Control open ratio at the lowering brake valve *:	Control open ratio 4.5 :1 Control open ratio 10 :1 (other control open ratios upon request)	= G = H	(Standard) – for systems with variable load conditions and structure-related fluctuations – For systems with relatively constant load
39 	Setting range *	70 to 175 bar (setting 140) 140 to 350 bar (setting 210)	= K = J	
45 	Control open ratio *	4.5 :1 10 :1	= 4 = 10	

* Other versions upon request

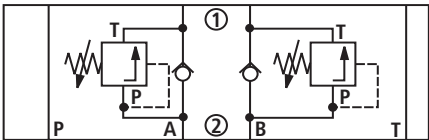
Counterholding function (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate with R ring plate	HSZ 06A 216-3X/ ¹⁵ ☐ ¹⁶ ☐ M00		120 x 44 x 60 2.6 kg	R900262305
Fitting of the sandwich plate: Pressure relief valve, direct operated	DBD ¹⁵ ☐ 6K1X/ ¹⁶ ☐ ¹⁴ ☐			RE 25402 DBD on side E
RUECKSCHLAGVENTIL D7,8-05BAR/ . Z1S6P				
Sandwich plate with R ring plate	HSZ 06A 218-3X/ ¹⁵ ☐ ¹⁶ ☐ M00		120 x 44 x 60 2.6 kg	R900262307
Fitting of the sandwich plate: Pressure relief valve, direct operated	DBD ¹⁵ ☐ 6K1X/ ¹⁶ ☐ ¹⁴ ☐			RE 25402 DBD on side F
RUECKSCHLAGVENTIL D7,8-05BAR/ . Z1S6P				

Order example

For complete device: HSZ 06A 216-3X/ ¹⁵ ☐ ¹⁶ ☐ ² ☐ ³ ☐ S 050 M 00

For complete device: HSZ 06A 218-3X/ ¹⁵ ☐ ¹⁶ ☐ ² ☐ ³ ☐ S 050 M 00

Sandwich plate with R ring plate	HSZ 06A 217-3X/A ¹⁵ ☐ ¹⁶ ☐ -B ¹⁵ ☐ ¹⁶ ☐ M00		175 x 44 x 60 3.8 kg	R900262306
Fitting of the sandwich plate: Pressure relief valve, direct operated	DBD ¹⁵ ☐ 6K1X/ ¹⁶ ☐ ¹⁴ ☐			RE 25402 DBD on side E and F
RUECKSCHLAGVENTIL D7,8-05BAR/ . Z1S6P				

Order example

For complete device: HSZ 06A 217-3X/ A ¹⁵ ☐ ¹⁶ ☐ -B ¹⁵ ☐ ¹⁶ ☐ ² ☐ ³ ☐ S 200 M 00

Secured channel

Pressure feed function (① = component side, ② = plate side)

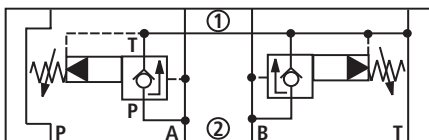
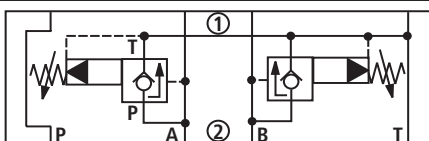
Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet
	Material no.		Weight	and more information
			Size of the ports	
Sandwich plate	HSZ 06A 222-3X/ ☐ ☐ M01		130 x 44 x 80	R900262764
Fitting of the sandwich plate:			3.4 kg	
Pressure relief valve, direct operated	DBD ☐ 6K1X/ ☐ ☐		Side E Side F A B G 1/4 G 1/4	RE 25402 DBD on side E
Check valve (installation kit)	M-SR8KE05-1X/ ☐			RE 20380
Order example	For complete device: HSZ 06A 222-3X/ ☐ ☐ S ☐ ☐ 200 ☐ ☐ M ☐ ☐ 01			
Sandwich plate	HSZ 06A 214-3X/A ☐ ☐ -B ☐ ☐ M01		210 x 44 x 80	R900262256
Fitting of the sandwich plate:			5.6 kg	
Pressure relief valve, direct operated	DBD ☐ 6K1X/ ☐ ☐		Side E Side F A B G 1/4 G 1/4	RE 25402 DBD on side E and F
Check valve (installation kit)	M-SR8KE05-1X/ ☐			RE 20380
Sandwich plate	HSZ 06A 207-3X/A ☐ ☐ -B ☐ ☐ M00		160 x 44 x 80	R900262257
Fitting of the sandwich plate:			4.3 kg	
Pressure relief valve, direct operated	DBD ☐ 6K1X/ ☐ ☐			RE 25402 DBD on side E and F
Check valve (installation kit)	M-SR8KE05-1X/ ☐			RE 20380
Sandwich plate	HSZ 06A 421-3X/A ☐ ☐ -B ☐ ☐ M01		210 x 44 x 80	R900277186
Fitting of the sandwich plate:			5.3 kg	
Pressure relief valve, direct operated	DBD ☐ 6K1X/ ☐ ☐		Side E Side F A B G 3/8 G 3/8	RE 25402 DBD on side E and F
Check valve (installation kit)	M-SR8KE05-1X/ ☐			RE 20380

Order example

Order example
For complete device: **HSZ 06A 214-3X/ A** ¹⁵**S** ¹⁶**315** **-B** ¹⁵**S** ¹⁶**315** ²**M** ³**01**

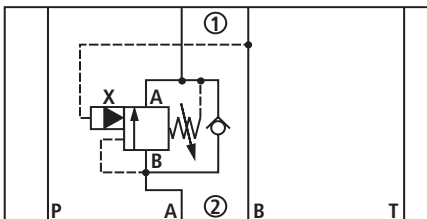
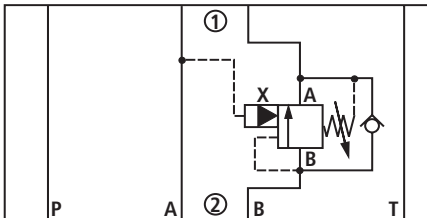
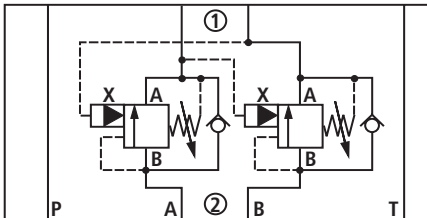
Secured channel

Pressure feed function (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	HSZ 06 A116-4X/ 420M00 SO133 *		90 x 44 x 40 1.1 kg	R900265894
	R901221737			RE 64602 Valve on side E and F
Fitting of the sandwich plate: MHDBN 16 K2-2X/				
Sandwich plate	HSZ 06 A116-4X/M00		90 x 44 x 40 1.1 kg	R900265894
	R901226642			RE 64602
without fitting of the sandwich plate				

* With vibratory ground main seat

Lowering brake function (complete device, ① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight	
			Size of the ports	
Sandwich plate	HSZ 06A 430-1X/L ☐ ³⁹ ☐ ⁴⁵ M00		140 x 44 x 50	R900239770
Fitting of the sandwich plate: SENKBREMSVENTIL CBC ☐ ⁴⁴ -L ☐ ³⁹ N			2.2 kg	Valve on side E
Sandwich plate	HSZ 06A 431-1X/L ☐ ³⁹ ☐ ⁴⁵ M00		140 x 44 x 50	R900279856
Fitting of the sandwich plate: SENKBREMSVENTIL CBC ☐ ⁴⁴ -L ☐ ³⁹ N			2.2 kg	Valve on side F
Order example For complete device with one lowering brake valve: HSZ 06A 430-1X/L ☐ ³⁹ ☐ ⁴⁵ ☐ ² ☐ ³ ☐ ⁴ ☐ ⁵ ☐ ⁰⁰				
Sandwich plate	HSZ 06A 426-1X/AL ☐ ³⁹ ☐ ⁴⁵ -BL ☐ ³⁹ ☐ ⁴⁵ M00		140 x 44 x 50	R900278330
Fitting of the sandwich plate: SENKBREMSVENTIL CBC ☐ ⁴⁴ -L ☐ ³⁹ N			2.3 kg	Valve on side E and F
Order example For complete device with two lowering brake valves: HSZ 06A 426-1X/ ☐ ³⁹ ☐ ⁴⁵ ☐ ¹⁰ -BL ☐ ³⁹ ☐ ⁴⁵ ☐ ¹⁰ ☐ ² ☐ ³ ☐ ⁰⁰				
Secured channel				

Preload of the check valve = 2 bar

Not suitable when using a proportional directional valve and differential circuits (please contact us!)

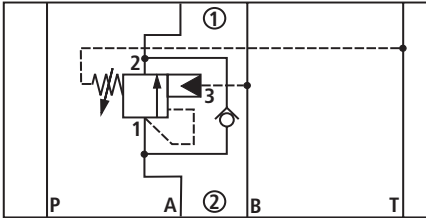
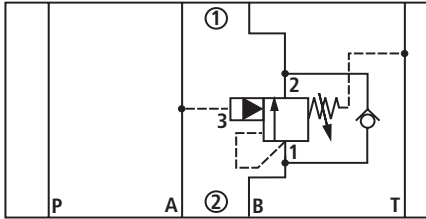
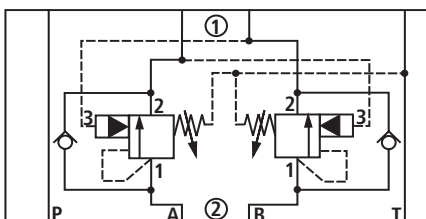
Hydraulic backpressures add 1:1 to the response pressure set at the adjustment as the spring chamber of the lowering brake valve is connected to the port (discharge side) of the valve side.

For more technical information refer to:

Mounting cavity R/T-11A; R901029900

Amend type designation according to page 21

Lowering brake function (complete device, ① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate without fitting of the sandwich plate	HSZ 06A 662-4X/M00		105 x 44 x 40 1.5 kg	R901227589 Lowering brake valve upon request
	R901227668			
Sandwich plate without fitting of the sandwich plate	HSZ 06A 663-4X/M00		105 x 44 x 40 1.5 kg	R901227588 Lowering brake valve upon request
	R901227680			
Sandwich plate without fitting of the sandwich plate	HSZ 06A 661-4X/M00		160 x 44 x 40 2.3 kg	R901226805 Lowering brake valve upon request
	R901227657			

Preload of the check valve = 2 bar
Suitable when using a proportional directional valve; however, the hydraulic backpressures add in port T 1:1 to the response pressure set at the adjustment.

For more technical information refer to:
Mounting cavity R/T-21A; R901161092

Functional group flow control function

Example: HSZ 06 A

1

 – 3X/M

20	17	21	22	2	3
----	----	----	----	---	---

Complementary details on sandwich plates with flow control function (complete devices):

17 	Adjustment element at the 2-way flow control valve Type 2FRM6...:	Lockable rotary knob with scale Rotary knob with scale	= 3 = 7
20 	2-way flow control valve Type 2FRM6...:	With closing of the pressure compensator (suppression of the start-up jump) Without closing of the pressure compensator	= A = B
21 	Flow (progressive) at the 2-way flow control valve Type 2FRM6...:	up to 0.2 l/min = 0.2Q (Q00.2) up to 0.5 l/min = 0.6Q (Q00.6) up to 1.5 l/min = 1.5Q (Q01.5) up to 3.0 l/min = 3Q (Q03.0) up to 6.0 l/min = 6Q (Q06.0) up to 10.0 l/min = 10Q (Q10.0) up to 16.0 l/min = 16Q (Q16.0) up to 25.0 l/min = 25Q (Q25.0) up to 32.0 l/min = 32Q (Q32.0)	
	⚠ Attention! Spelling (!) with complete type!		
22 	Flow control valve	With check valve Without check valve	= R = M
27 	Adjustment element at the throttle valve	Hexagon socket head cap screw with lock nut protective cap	= 2
	⚠ Attention! With Type Z2FG6...-4X/... identical adjustment element on sides A and B	Lockable rotary knob with scale Spindle with internal hexagon and scale Rotary knob with scale	= 3 = 5 = 7
28 	Flow limitation at the throttle valve Type Z2FG6...:	Main flow limitation (standard) Pilot flow limitation (fine control setting)	= 2Q = 1Q

Note: Flow control also possible with proportional flow control valve according to data sheet RE 29188!

Throttle valves (① = component side, ② = plate side)

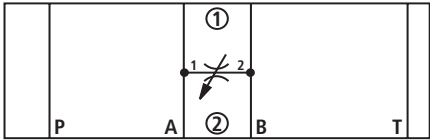
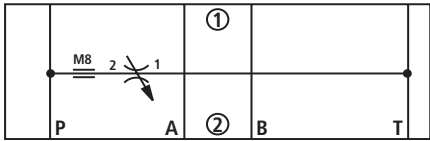
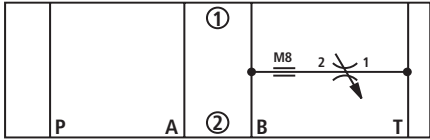
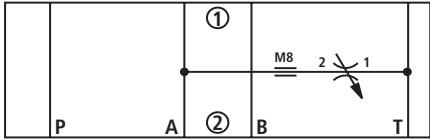
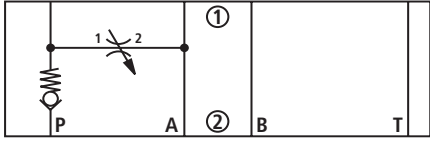
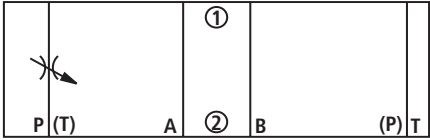
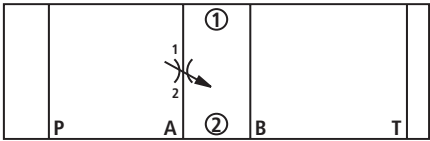
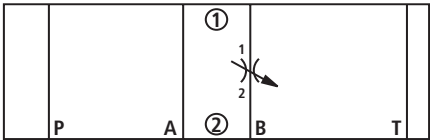
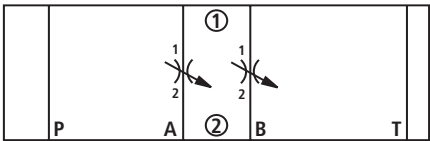
Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate with R ring plate	Z2FG6A ²⁷ □-4X/ ²⁸ □V		81 x 45 x 40 1.1 kg	R900256824 Valve on side E
Amend type designation according to page 57!				
Sandwich plate with R ring plate	Z2FG6B ²⁷ □-4X/ ²⁸ □V		81 x 45 x 40 1.1 kg	R900256824 Valve on side F
Amend type designation according to page 57!				
Sandwich plate with R ring plate	Z2FG6- ²⁷ □-4X/ ²⁸ □V		81 x 45 x 40 1.1 kg	R900256824 Valve on side E and F
Amend type designation according to page 57!				
Sandwich plate with R ring plate	Z2FGM6T2-2X/ ²⁸ □V		98 x 44 x 40 1.3 kg	R900268113 Valve on side F
Amend type designation according to page 57!				
Sandwich plate	HSZ 06A 085-3X/A ⁵¹ □B ⁵¹ □P ⁵¹ □T ⁵¹ □M00		65 x 44 x 10 0.2 kg	R900262118
Fitting of the sandwich plate:			Thread M8 x 1 available in all channels	RN 115.06
DUESE ⁵¹ □ M8x1-DIN906				
Material no. see page 92				

Order example

For complete device with orifice 0.8 mm in channel A and B:

HSZ 06A 085-3X/ A⁵¹08 B⁵¹08 M²00³
Fitted channel

Throttle valves (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	HSZ 06-A517-4X/ DV03M00		90 x 44 x 50 1.8 kg	R901120319 RE 90005-03
	R901244683			
Sandwich plate	HSZ 06-A519-4X/ DV04M00		85 x 44 x 70 1.7 kg	R901123599 Internal thread M8 RE 90005-03
	R901149085			
Sandwich plate	HSZ 06-A525-4X/ DV04M00		90 x 44 x 60 1.8 kg	R901130409 Internal thread M8 RE 90005-03
	R901158986			
Sandwich plate	HSZ 06-A589-4X/ DV03M00		90 x 44 x 60 1.7 kg	R901129876 Internal thread M8 RE 90005-03
	R901234559			
Sandwich plate	HSZ 06-A498-3X/ DV03M00		80 x 44 x 50 1.6 kg	R901121122 RE 90005-03
	R901244682			
Sandwich plate with R ring plate	HSZ 06-A402-3X/ D00-DV03M00		150 x 44 x 70 2.9 kg	R901028338 RE 90005-03
	R901239252			
Sandwich plate	HSZ 06-A490-3X/ A-DV03M00		105 x 44 x 70 2.7 kg	R901094055 RE 90005-03
	R901265680			
Sandwich plate	HSZ 06-A490-3X/ B-DV03M00		105 x 44 x 70 2.7 kg	R901094055 RE 90005-03
	R901265676			
Sandwich plate	HSZ 06-A490-3X/ AB-DV03M00		105 x 44 x 70 2.7 kg	R901094055 RE 90005-03
	R901265675			

Flow control valves (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate with R ring plate	HSZ 06A 151-3X/M ☐ ☐ ☐ ☐ M00	Supply control	70 x 44 x 70 2.8 kg	R900262247
Fitting of the sandwich plate: 2-way flow control valve	2FRM6 ☐ ☐ 6-3X/ ☐ ☐ V	Discharge control	70 x 44 x 70 2.8 kg	RE 28163 2 FRM on side E
Sandwich plate with R ring plate	HSZ 06A 152-3X/M ☐ ☐ ☐ ☐ M00	Supply control	70 x 44 x 70 2.8 kg	R900262248
Fitting of the sandwich plate: 2-way flow control valve	2FRM6 ☐ ☐ 6-3X/ ☐ ☐ V	Discharge control	70 x 44 x 70 2.8 kg	RE 28163 2 FRM on side F
Sandwich plate with R ring plate	HSZ 06A 163-3X/M ☐ ☐ ☐ ☐ M00	Supply control	70 x 44 x 70 2.8 kg	R900264671
Fitting of the sandwich plate: 2-way flow control valve	2FRM6 ☐ ☐ 6-3X/ ☐ ☐ V	Discharge control	70 x 44 x 70 2.8 kg	RE 28163 2 FRM on side E

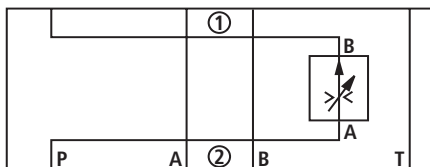
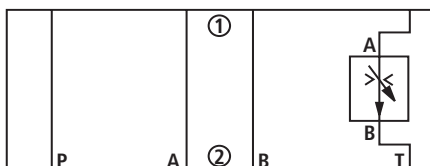
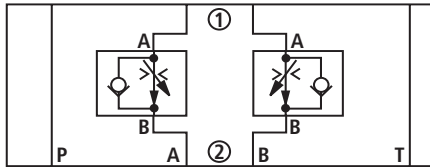
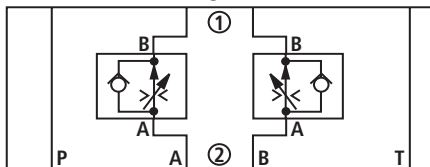
(Valve mounting screws are part of the sandwich plates)

Order example

• For complete device with 2-way flow control valve:

HSZ 06A 151-3X/M ☐ ☐ ☐ ☐ M00

Flow control valves (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate with R ring plate	HSZ 06A 150-3X/M ☐ ¹⁷ ☐ ²¹ M00		70 x 44 x 70 2.8 kg	R900262249
Fitting of the sandwich plate: 2-way flow control valve 2FRM6B ☐ ¹⁷ 6-3X/ ☐ ²¹ MV			RE 28163 2 FRM on side F	
(Valve mounting screws are part of the sandwich plate)				
Sandwich plate with R ring plate	HSZ 06A 153-3X/M ☐ ¹⁷ ☐ ²¹ M00		70 x 44 x 70 2.8 kg	R900262250
Fitting of the sandwich plate: 2-way flow control valve 2FRM6B ☐ ¹⁷ 6-3X/ ☐ ²¹ MV			RE 28163 2 FRM on side F	
(Valve mounting screws are part of the sandwich plate)				
Order example • For complete device with 2-way flow control valve: HSZ 06A 153-3X/M ☒ ¹⁷ ☒ ²¹ ☒ ² ☒ ³ Q03.0 M00				
Sandwich plate with R ring plate	HSZ 06A 154-3X/AM ☐ ¹⁷ ☐ ²¹ ☐ ²² -BM ☐ ¹⁷ ☐ ²¹ ☐ ²² M00	 Supply control  Discharge control	70 x 44 x 70 4.1 kg	R900262244
Fitting of the sandwich plate: 2-way flow control valve 2FRM6B ☐ ¹⁷ 6-3X/ ☐ ²¹ ☐ ²² V			RE 28163 2 FRM on side E and F	
(Valve mounting screws are part of the sandwich plate)				
Order example • For complete device with 2-way flow control valve: HSZ 06A 154-3X/ ☒ ¹⁷ ☒ ²¹ ☒ ²² AM ☒ ¹⁷ ☒ ²¹ ☒ ²² Q06.0 R ☒ ¹⁷ ☒ ²¹ ☒ ²² -BM ☒ ¹⁷ ☒ ²¹ ☒ ²² Q03.0 R ☒ ² ☒ ³ M00 Controlled channel				

Functional group rapid motion - creep speed function, normally open and closed

Example: HSZ 06 A 1 – 3X/ 41 21.2 – 42 43 G24K4 2 3

Complementary details on sandwich plates with rapid motion - creep speed function

21.2



Maximum flow

(A → B) at the 2-way flow control valve Type 2FRM6 (cartridge valve):

up to 6.0 l/min
up to 32.0 l/min

= 6Q (06)
= 32Q (32)

⚠ Attention!

Spelling () with complete type!

42



Blocking function at the 2/2-directional seat valve:

Blocking on one side
Blocking on both sides

= A
= B

43



Spool position at the 2/2-directional seat valve:

De-energized closed
De-energized open

= 05
= 06

22



Flow control valve

With check valve
Without check valve

= R
= M

41



Flow control
Creep speed:

With orifice
With throttle
With flow controller cartridge

= D
= FGM
= FRM

17



Adjustment element at the 2-way flow control valve Type 2FRM6...:

Lockable rotary knob with scale
Rotary knob with scale

= 3
= 7

20



2-way flow control valve
Type 2FRM6...:

With closing of the pressure compensator (suppression of the start-up jump)
Without closing of the pressure compensator

= A
= B

21



Flow (progressive) at the 2-way flow control valve Type 2FRM6...:

up to 0.2 l/min
up to 0.5 l/min
up to 1.5 l/min
up to 3.0 l/min
up to 6.0 l/min
up to 10.0 l/min
up to 16.0 l/min
up to 25.0 l/min
up to 32.0 l/min

= 0.2Q (Q00.2)
= 0.6Q (Q00.6)
= 1.5Q (Q01.5)
= 3Q (Q03.0)
= 6Q (Q06.0)
= 10Q (Q10.0)
= 16Q (Q16.0)
= 25Q (Q25.0)
= 32Q (Q32.0)

⚠ Attention!

Spelling () with complete type!

Note:

Presentation of the switching symbols generally in discharge control.

☞ Exception: Supply control **with** closing of the pressure compensator (HSZ 06A 403.. and HSZ 06A 404..)

Conversion from discharge into supply control is effected by rotating the sandwich plate around the vertical axis by 180°.

Closing of the pressure compensator (with attached flow control valve) is only effective with supply control.

Rapid motion - creep speed function, normally closed (blocking on one side, ① = component side, ② = plate side)

Flow control cartridge valve		Symbol	Plate L x W x H	Dimensional sheet and more information
Device designation	Type designation Material no.		Weight Size of the ports	
Sandwich plate with R ring plate	HSZ 06A 400-3X/FRM ^{21.2} -A05G24K4M00		150 x 44 x 70	R901063482
Fitting of the sandwich plate: SITZVENTIL OD.15.05.18.3A.S0.000 SPULE OD.02.17.01.30.OC.000			3.7 kg	Valve on side F
2-way flow control valve	2FRM6K2-1X/ ^{21.2} RV			RE 28155 Valve on side E
	HSZ 06A 400-3X/FGM1-A05G24K4M00		3.7 kg	R900267396
Fitting of the sandwich plate: SITZVENTIL OD.15.05.18.3A.S0.000 SPULE OD.02.17.01.30.OC.000				
Throttle valve	FGM6K2-1X/1QV			
	HSZ 06A 400-3X/D ⁵¹ -A05G24K4M00		3.6 kg	
Fitting of the sandwich plate: SITZVENTIL OD.15.05.18.3A.S0.000 SPULE OD.02.17.01.30.OC.000				
DUESE ⁵¹ M8x1-DIN906				RN 115.06
Material no. see page 92				
Sandwich plate with R ring plate	HSZ 06A 401-3X/FRM ^{21.2} -A05G24K4M00		150 x 44 x 70	R901033758
Fitting of the sandwich plate: SITZVENTIL OD.15.05.18.3A.S0.000 SPULE OD.02.17.01.30.OC.000			3.7 kg	Valve on side E
2-way flow control valve	2FRM6K2-1X/ ^{21.2} RV			RE 28155 Valve on side F
	HSZ 06A 401-3X/FGM1-A05G24K4M00		3.7 kg	R900267396
Fitting of the sandwich plate: SITZVENTIL OD.15.05.18.3A.S0.000 SPULE OD.02.17.01.30.OC.000				
Throttle valve	FGM6K2-1X/1QV			
	HSZ 06A 401-3X/D ⁵¹ -A05G24K4M00		3.6 kg	
Fitting of the sandwich plate: SITZVENTIL OD.15.05.18.3A.S0.000 SPULE OD.02.17.01.30.OC.000				
DUESE ⁵¹ M8x1-DIN906				RN 115.06
Material no. see page 92				

Order examples, see page 68

Rapid motion - creep speed function, normally closed (blocking on one side, ① = component side, ② = plate side)

Flow control cartridge valve		Symbol	Plate L x W x H	Dimensional sheet and more information
Device designation	Type designation Material no.		Weight Size of the ports	
Sandwich plate with R ring plate	HSZ 06A 402-3X/FRM ^{21.2} -A05G24K4M00		150 x 44 x 70	R901033750
Fitting of the sandwich plate: SITZVENTIL OD.15.05.18.3A.S0.000 SPULE OD.02.17.01.30.OC.000 2-way flow control valve	2FRM6K2-1X/ ^{21.2} RV		3.7 kg	Valve on side F RE 28155 Valve on side E
Throttle valve	HSZ 06A 402-3X/FGM1-A05G24K4M00		3.7 kg	R900267396
Fitting of the sandwich plate: SITZVENTIL OD.15.05.18.3A.S0.000 SPULE OD.02.17.01.30.OC.000	FGM6K2-1X/1QV			
	HSZ 06A 402-3X/D ⁵¹ -A05G24K4M00		3.6 kg	
Fitting of the sandwich plate: SITZVENTIL OD.15.05.18.3A.S0.000 SPULE OD.02.17.01.30.OC.000 DUESE ⁵¹ M8x1-DIN906				RN 115.06

Material no. see page 92

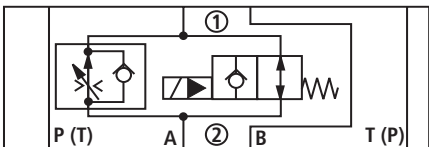
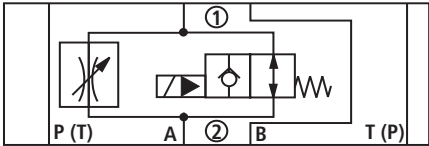
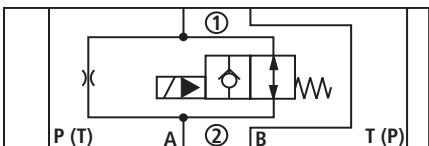
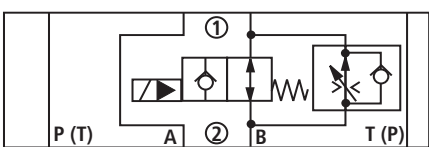
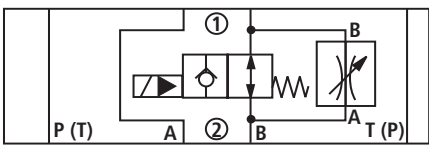
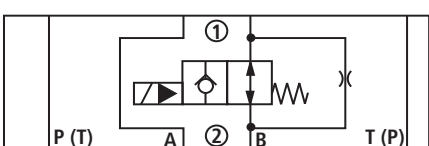
Order examples, see page 68

Rapid motion - creep speed function, normally closed (blocking on both sides, ① = component side, ② = plate side)

Flow control cartridge valve		Symbol	Plate L x W x H	Dimensional sheet and more information
Device designation	Type designation		Weight	
	Material no.		Size of the ports	
Sandwich plate with R ring plate	HSZ 06A 400-3X/FGM1-B05G24K4M00		150 x 44 x 70	R901028268
Fitting of the sandwich plate: SITZVENTIL OD.15.31.18.3A.S0.000 SPULE OD.02.17.01.30.OC.000			3.7 kg	Valve on side F
Throttle valve	FGM6K2-1X/1QV			R900267396 Valve on side E
	HSZ 06A 400-3X/D ⁵¹ -B05G24K4M00		3.6 kg	RN 115.06
Fitting of the sandwich plate: SITZVENTIL OD.15.31.18.3A.S0.000 SPULE OD.02.17.01.30.OC.000				
	DUESE ⁵¹ M8x1-DIN906			
Material no. see page 92				
Sandwich plate with R ring plate	HSZ 06A 401-3X/FGM1-B05G24K4M00		150 x 44 x 70	R901047673
Fitting of the sandwich plate: SITZVENTIL OD.15.31.18.3A.S0.000 SPULE OD.02.17.01.30.OC.000			3.7 kg	Valve on side E
Throttle valve	FGM6K2-1X/1QV			R900267396 Valve on side F
	HSZ 06A 401-3X/D ⁵¹ -B05G24K4M00		3.6 kg	RN 115.06
Fitting of the sandwich plate: SITZVENTIL OD.15.31.18.3A.S0.000 SPULE OD.02.17.01.30.OC.000				
	DUESE ⁵¹ M8x1-DIN906			
Material no. see page 92				

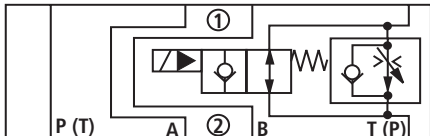
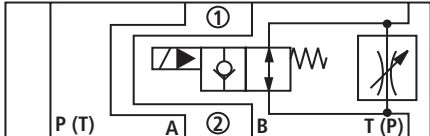
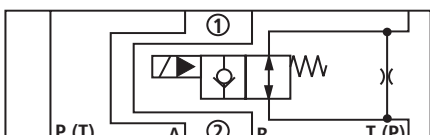
Order examples, see page 68

Rapid motion - creep speed function, normally open (blocking on one side, ① = component side, ② = plate side)

Flow control cartridge valve			Plate L x W x H	Dimensional sheet
Device designation	Type designation		Weight	
	Material no.	Symbol	Size of the ports	and more information
Sandwich plate with R ring plate	HSZ 06A 400-3X/FRM ^{21.2}  -A06G24K4M00		150 x 44 x 70	R901063482
Fitting of the sandwich plate: SITZVENTIL OD.15.06.18.1A.S0.000 SPULE OD.02.17.01.30.OC.000			3.7 kg	Valve on side F
2-way flow control valve	2FRM6K2-1X/ ^{21.2}  RV			RE 28155 Valve on side E
	HSZ 06A 400-3X/FGM1-A06G24K4M00		3.7 kg	
Fitting of the sandwich plate: SITZVENTIL OD.15.06.18.1A.S0.000 SPULE OD.02.17.01.30.OC.000				
Throttle valve	FGM6K2-1X/1QV			R900267396
	HSZ 06A 400-3X/D ⁵¹  -A06G24K4M00		3.6 kg	
Fitting of the sandwich plate: SITZVENTIL OD.15.06.18.1A.S0.000 SPULE OD.02.17.01.30.OC.000				
	DUESE ⁵¹  M8x1-DIN906			RN 115.06
Material no. see page 92				
Sandwich plate with R ring plate	HSZ 06A 401-3X/FRM ^{21.2}  -A06G24K4M00		150 x 44 x 70	R901033758
Fitting of the sandwich plate: SITZVENTIL OD.15.06.18.1A.S0.000 SPULE OD.02.17.01.30.OC.000			3.7 kg	Valve on side E
2-way flow control valve	2FRM6K2-1X/ ^{21.2}  RV			RE 28155 Valve on side F
	HSZ 06A 401-3X/FGM1-A06G24K4M00		3.7 kg	
Fitting of the sandwich plate: SITZVENTIL OD.15.06.18.1A.S0.000 SPULE OD.02.17.01.30.OC.000				
Throttle valve	FGM6K2-1X/1QV			R900267396
	HSZ 06A 401-3X/D ⁵¹  -A06G24K4M00		3.6 kg	
Fitting of the sandwich plate: SITZVENTIL OD.15.06.18.1A.S0.000 SPULE OD.02.17.01.30.OC.000				
	DUESE ⁵¹  M8x1-DIN906			RN 115.06
Material no. see page 92				
Order examples, see page 68				

Order examples, see page 68

Rapid motion - creep speed function, normally open (blocking on one side, ① = component side, ② = plate side)

Flow control cartridge valve		Symbol	Plate L x W x H	Dimensional sheet and more information
Device designation	Type designation Material no.		Weight Size of the ports	
Sandwich plate with R ring plate	HSZ 06A 402-3X/FRM ^{21.2} -A06G24K4M00		150 x 44 x 70	R901033750
Fitting of the sandwich plate: SITZVENTIL OD.15.06.18.1A.S0.000 SPULE OD.02.17.01.30.OC.000 2-way flow control valve	2FRM6K2-1X/ ^{21.2} RV		3.7 kg	Valve on side F RE 28155 Valve on side E
Throttle valve	HSZ 06A 402-3X/FGM1-A06G24K4M00		3.7 kg	R900267396
Fitting of the sandwich plate: SITZVENTIL OD.15.06.18.1A.S0.000 SPULE OD.02.17.01.30.OC.000	FGM6K2-1X/1QV			
	HSZ 06A 402-3X/D ⁵¹ -A06G24K4M00		3.6 kg	RN 115.06
Fitting of the sandwich plate: SITZVENTIL OD.15.06.18.1A.S0.000 SPULE OD.02.17.01.30.OC.000 DUESE ⁵¹ M8x1-DIN906				

Material no. see page 92

Order examples, see page 68

Rapid motion - creep speed function, normally open (blocking on both sides, ① = component side, ② = plate side)

Flow control cartridge valve		Symbol	Plate L x W x H	Dimensional sheet and more information
Device designation	Type designation Material no.		Weight Size of the ports	
Sandwich plate with R ring plate	HSZ 06A 400-3X/FGM1-B06G24K4M00		150 x 44 x 70 3.7 kg	R901028268 Valve on side F R900267396 Valve on side E
Fitting of the sandwich plate: SITZVENTIL OD.15.32.18.1A.S0.000 SPULE OD.02.17.01.30.OC.000 Throttle valve FGM6K2-1X/1QV	HSZ 06A 400-3X/D 51-B06G24K4M00		3.6 kg	RN 115.06
Fitting of the sandwich plate: SITZVENTIL OD.15.32.18.1A.S0.000 SPULE OD.02.17.01.30.OC.000 DUESE 51 M8x1-DIN906	Material no. see page 92			
Sandwich plate with R ring plate	HSZ 06A 401-3X/FGM1-B06G24K4M00		150 x 44 x 70 3.7 kg	R901047673 Valve on side E R900267396 Valve on side F
Fitting of the sandwich plate: SITZVENTIL OD.15.32.18.1A.S0.000 SPULE OD.02.17.01.30.OC.000 Throttle valve FGM6K2-1X/1QV	HSZ 06A 401-3X/D 51-B06G24K4M00		3.6 kg	RN 115.06
Fitting of the sandwich plate: SITZVENTIL OD.15.32.18.1A.S0.000 SPULE OD.02.17.01.30.OC.000 DUESE 51 M8x1-DIN906	Material no. see page 92			

Order examples

- For complete device with 2/2 directional seat valve and 2-way flow control valve:

HSZ 06A 400-3X/ ⁴¹FRM ^{21.2}06 - ⁴²A ⁴³05 G24K4 ²M ³00

- For complete device with 2/2 directional seat valve and throttle valve:

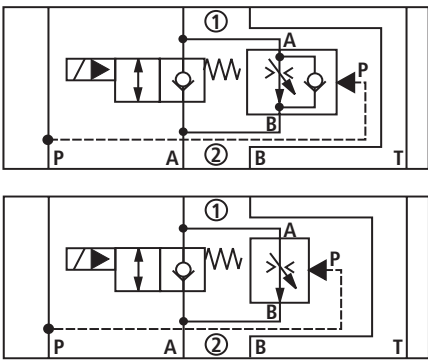
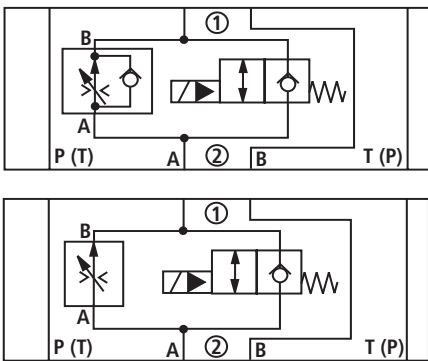
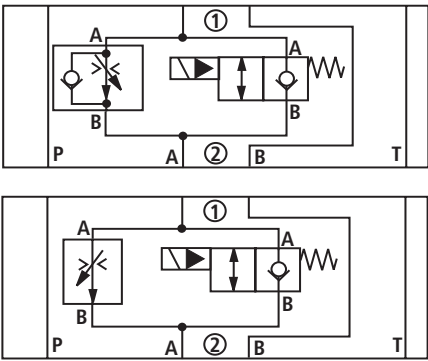
HSZ 06A 400-3X/ ⁴¹FGM ⁴²1 - ⁴³A ⁴³05 G24K4 ²M ³00

- For complete device with 2/2 directional seat valve and orifice:

HSZ 06A 400-3X/ ⁴¹D ⁵¹18 - ⁴²B ⁴³05 G24K4 ²M ³00

Orifice Ø 1.8 mm

Rapid motion - creep speed function, normally closed (blocking on one side, ① = component side, ② = plate side)

Flow control built-on valve		Symbol	Plate L x W x H	Dimensional sheet and more information
Device designation	Type designation Material no.		Weight Size of the ports	
Sandwich plate with R ring plate Fitting of the sandwich plate: SITZVENTIL OD.15.05.18.3A.S0.000 SPULE OD.02.17.01.30.OC.000 2-way flow control valve 2FRM6 A 17 21 22 6-3X/ V	HSZ 06A 403-3X/A 17 21 22 -A05G24K4M00		100 x 44 x 70 3.7 kg	R901064040 Valve on side F RE 28163 Valve on side E
Sandwich plate with R ring plate Fitting of the sandwich plate: SITZVENTIL OD.15.05.18.3A.S0.000 SPULE OD.02.17.01.30.OC.000 2-way flow control valve 2FRM6 B 17 21 22 6-3X/ V	HSZ 06A 403-3X/B 17 21 22 -A05G24K4M00		100 x 44 x 70 3.7 kg	R901028370 Valve on side F RE 28163 Valve on side E
Sandwich plate with R ring plate Fitting of the sandwich plate: SITZVENTIL OD.15.05.18.3A.S0.000 SPULE OD.02.17.01.30.OC.000 2-way flow control valve 2FRM6 B 17 21 22 6-3X/ V	HSZ 06A 403-3X/B 17 21 22 -A05G24K4M00		100 x 44 x 70 3.7 kg	R901028370 Valve on side F RE 28163 Valve on side E

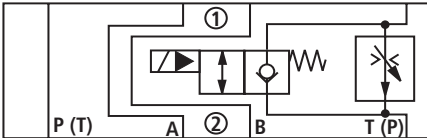
Order example, see page 74

Rapid motion - creep speed function, normally closed (blocking on one side, ① = component side, ② = plate side)

Flow control built-on valve		Symbol	Plate L x W x H	Dimensional sheet and more information
Device designation	Type designation Material no.		Weight Size of the ports	
Sandwich plate with R ring plate	HSZ 06A 404-3X/A 17 21 22 -A05G24K4M00		100 x 44 x 70 3.7 kg	R901064115 Valve on side E RE 28163 Valve on side F
Fitting of the sandwich plate: SITZVENTIL OD.15.05.18.3A.S0.000 SPULE OD.02.17.01.30.OC.000 2-way flow control valve 2FRM6 A 17 6-3X/ 21 22 V				
(with closing of the pressure compensator)				
Sandwich plate with R ring plate	HSZ 06A 404-3X/B 17 21 22 -A05G24K4M00		100 x 44 x 70 3.7 kg	R901064119 Valve on side E RE 28163 Valve on side F
Fitting of the sandwich plate: SITZVENTIL OD.15.05.18.3A.S0.000 SPULE OD.02.17.01.30.OC.000 2-way flow control valve 2FRM6 B 17 6-3X/ 21 22 V				
(without closing of the pressure compensator)				
Sandwich plate with R ring plate	HSZ 06A 404-3X/B 17 21 22 -A05G24K4M00		100 x 44 x 70 3.7 kg	R901064119 Valve on side E RE 28163 Valve on side F
Fitting of the sandwich plate: SITZVENTIL OD.15.05.18.3A.S0.000 SPULE OD.02.17.01.30.OC.000 2-way flow control valve 2FRM6 B 17 6-3X/ 21 22 V				
(without closing of the pressure compensator)				

Order example, see page 74

Rapid motion - creep speed function, normally closed (blocking on one side, ① = component side, ② = plate side)

Flow control built-on valve		Symbol	Plate L x W x H	Dimensional sheet
Device designation	Type designation		Weight	and more information
	Material no.		Size of the ports	
Sandwich plate with R ring plate	HSZ 06A 405–3X/B 17 21	M-A05G24K4M00	100 x 44 x 70	R901033979
			3.7 kg	
Fitting of the sandwich plate:				
SITZVENTIL OD.15.05.18.3A.S0.000				Valve on side F
SPULE OD.02.17.01.30.OC.000				RE 28163
2-way flow control valve				Valve on side E
2FRM6 B 17 21				
6-3X/ MV				

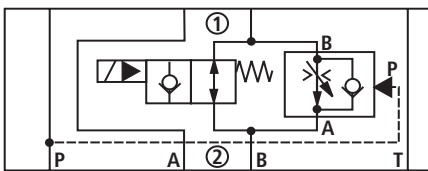
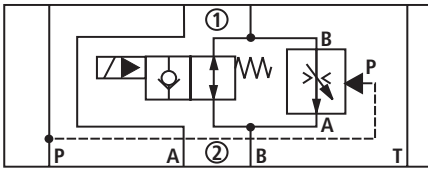
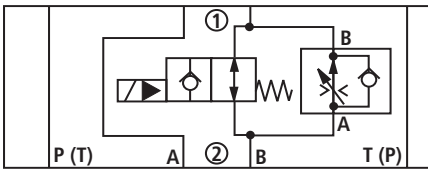
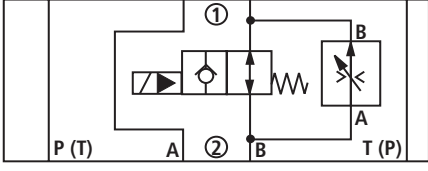
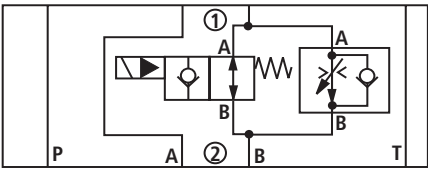
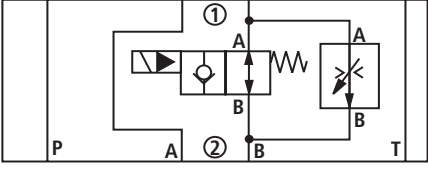
Order example, see page 74

Rapid motion - creep speed function, normally open (blocking on one side, ① = component side, ② = plate side)

Device designation	Type designation	Material no.	Symbol	Plate L x W x H	Dimensional sheet and more information
				Weight Size of the ports	
Sandwich plate with R ring plate	HSZ 06A 403-3X/A	17 21 22 -A06G24K4M00		100 x 44 x 70 3.7 kg	R901064040 Valve on side F RE 28163 Valve on side E
Fitting of the sandwich plate: SITZVENTIL OD.15.06.18.1A.S0.000 SPULE OD.02.17.01.30.OC.000 2-way flow control valve 2FRM6 A 17 6-3X/ 21 22 V					
(with closing of the pressure compensator)					
Sandwich plate with R ring plate	HSZ 06A 403-3X/B	17 21 22 -A06G24K4M00		100 x 44 x 70 3.7 kg	R901028370 Valve on side F RE 28163 Valve on side E
Fitting of the sandwich plate: SITZVENTIL OD.15.06.18.1A.S0.000 SPULE OD.02.17.01.30.OC.000 2-way flow control valve 2FRM6 B 17 6-3X/ 21 22 V					
(without closing of the pressure compensator)					
Sandwich plate with R ring plate	HSZ 06A 403-3X/B	17 21 22 -A06G24K4M00		100 x 44 x 70 3.7 kg	R901028370 Valve on side F RE 28163 Valve on side E
Fitting of the sandwich plate: SITZVENTIL OD.15.06.18.1A.S0.000 SPULE OD.02.17.01.30.OC.000 2-way flow control valve 2FRM6 B 17 6-3X/ 21 22 V					
(without closing of the pressure compensator)					

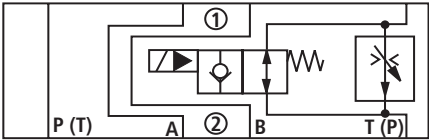
Order example, see page 74

Rapid motion - creep speed function, normally open (blocking on one side, ① = component side, ② = plate side)

Flow control built-on valve		Symbol	Plate L x W x H	Dimensional sheet and more information
Device designation	Type designation Material no.		Weight Size of the ports	
Sandwich plate with R ring plate Fitting of the sandwich plate: SITZVENTIL OD.15.06.18.1A.S0.000 SPULE OD.02.17.01.30.OC.000 2-way flow control valve 2FRM6 A 17 21 22 6-3X/ V	HSZ 06A 404-3X/A 17 21 22 -A06G24K4M00	 	100 x 44 x 70 3.7 kg	R901064115 Valve on side E RE 28163 Valve on side F
Sandwich plate with R ring plate Fitting of the sandwich plate: SITZVENTIL OD.15.06.18.1A.S0.000 SPULE OD.02.17.01.30.OC.000 2-way flow control valve 2FRM6 B 17 21 22 6-3X/ V	HSZ 06A 404-3X/B 17 21 22 -A06G24K4M00	 	100 x 44 x 70 3.7 kg	R901064119 Valve on side E RE 28163 Valve on side F
Sandwich plate with R ring plate Fitting of the sandwich plate: SITZVENTIL OD.15.06.18.1A.S0.000 SPULE OD.02.17.01.30.OC.000 2-way flow control valve 2FRM6 B 17 21 22 6-3X/ V	HSZ 06A 404-3X/B 17 21 22 -A06G24K4M00	 	100 x 44 x 70 3.7 kg	R901064119 Valve on side E RE 28163 Valve on side F

Order example, see page 74

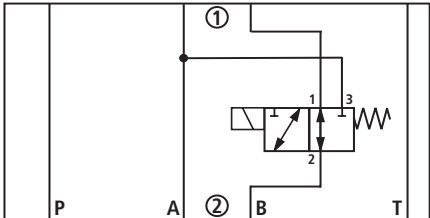
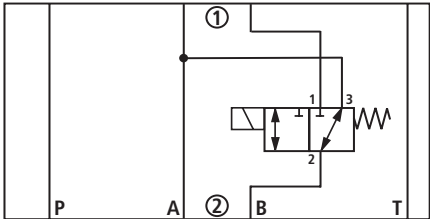
Rapid motion - creep speed function, normally open (blocking on one side, ① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate with R ring plate	HSZ 06A 405-3X/B 17 21 22 M-A06G24K4M00		100 x 44 x 70	R901033979
Fitting of the sandwich plate: SITZVENTIL OD.15.06.18.1A.S0.000 SPULE OD.02.17.01.30.OC.000			3.7 kg	Valve on side F
2-way flow control valve	2FRM6 B 17 21 6-3X/ MV			RE 28163 Valve on side E

Order example

For complete device with 2/2 directional seat valve and 2-way flow control valve with closing of the pressure compensator: HSZ 06A 403-3X/ A 3 Q10.0 M - A 05 G24K4 M 00

Rapid motion - creep speed function, electrically switchable ((1) = component side, (2) = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	HSZ 06 A636-3X/ KKDEUG24N0K4M00		105 x 44 x 70	R901235538
	R901236203		2.4 kg	RE18136-04
Sandwich plate	HSZ 06 A636-3X/ KKDECG24N0K4M00		105 x 44 x 70	R901235538
	R901235586		3.2 kg	RE18136-04

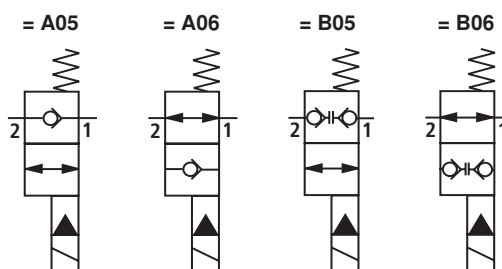
Functional group miscellaneous

Complementary details on sandwich plates with short-circuit valves for numbers 435, 498, 517, 519, 525, 589.

HSZ 06A ...-4X/ (see page 80 to 86)

31

Symbols of the
2/2 directional seat valve:



32

Manual override at the
2/2 directional seat valve:

Without manual override	= 1A
With concealed manual override	= 1B
Without manual override lockable in pushed spool position	= 1C
without manual override	= 3A
Manual override screwable	= 3D

33

Solenoid voltage at the
2/2 directional seat valve:

DC voltage 12 V	= G12
Direct voltage 24 V	= G24
Direct voltage 26 V	= G26
Direct voltage 110 V	= G110
Direct voltage 220 V	= G220

34

Manual override:

Manual override	= N
without manual override	= No information

35

Electrical types of connection:

03pol (2+PE) DIN EN 175301-803, without mating connector	= K4
02pol K40 DT 04-2PA Deutsch, without mating connector	= K40
02pol C4/Z30 AMP Junior-Timer, without mating connector	= C4

50

Orifice fitting with A519, A525, A589 (internal thread M8X1):

Example: 10: Orifice M8X1 with Ø1.0 mm fitting of Ø0.4 mm to Ø4.0 mm possible	= 10
---	------

Functional group miscellaneous

Complementary details on sandwich plates with short-circuit valves for number 472.

Channel
 HSZ 06A 472-3X/A ☐ 31 ☐ 32 -B ☐ 33 ☐ 34 ☐ 35 ☐ 36 ☐ 37 M00 (see page 84)

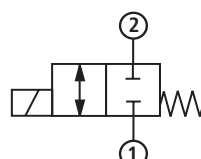


Directional spool valve: Direct operated, electrically operated KKDE
Directional seat valve: Direct operated, electrically operated KSDE

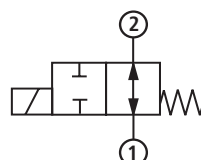
= K
 = S



Symbols of the directional spool valve KKDE:

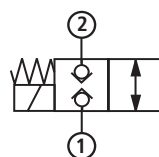


= N

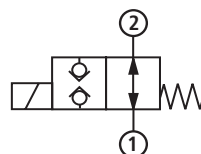


= P

Symbols of the directional seat valve KSDE:



= N



= P



Solenoid voltage at the directional spool (seat) valve:

Direct voltage 12 V
 Direct voltage 24 V
 Direct voltage 48 V
 Direct voltage 96 V
 Direct voltage 205 V

= G12
 = G24
 = G48
 = G96
 = G205



Manual override:

Without manual override
 With concealed manual override
 With screwable manual override (operation by means of knurled screw)

= N0
 = N9
 = N11 (only KSDE)



Electrical types of connection:

03pol (2+PE) DIN EN 175301-803, without mating connector
 02pol K40 DT 04-2PA Deutsch, without mating connector
 02pol C4/Z30 AMP Junior-Timer, without mating connector

= K4
 = K40
 = C4

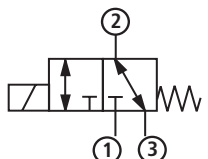
Functional group miscellaneous

Complementary details on sandwich plates with short-circuit valves for numbers 473, 636

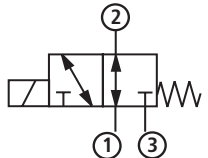
HSZ 06A ...-3X/ ☐ ³¹ ☐ ³² ☐ ³³ ☐ ³⁴ ☐ ³⁵ M00 (see page 85 and 75)

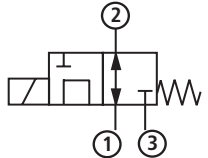
31
☐ **Directional spool valve:** Direct operated, electrically operated = KKDE
Directional seat valve: Direct operated, electrically operated = KSDE

32
☐ **Symbol of the directional spool valve KKDE:**

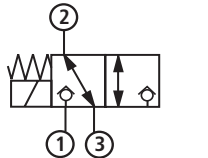


= C

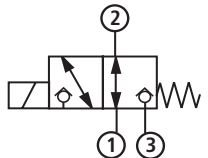
 = U

 = G

Symbol of the directional seat valve KSDE:
 Observe the max. admissible pressure of 50 bar at port 3!



= C

 = U

33
☐ **Solenoid voltage** at the directional spool valve: Direct voltage 24 V = G24

34
☐ **Manual override:** Without manual override = N0
 With concealed manual override = N9

35
☐ **Electrical types of connection:** 03pol (2+PE) DIN EN 175301-803, without mating connector = K4
 02pol K40 DT 04-2PA Deutsch, without mating connector = K40
 02pol C4/Z30 AMP Junior-Timer, without mating connector = C4

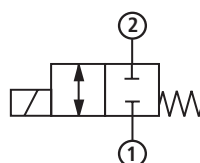
Functional group miscellaneous

Complementary details on sandwich plates with short-circuit valves for number 638.

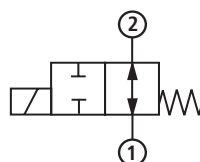
HSZ 06A 638-4X/K ☐ ³¹ DE ☐ ³² ☐ ³⁵ ☐ ³⁶ ☐ ³⁷ M00 (see page 87)

Directional spool valve: Direct operated, electrically operated KKDE = K
Directional seat valve: Direct operated, electrically operated KSDE = S

Symbols of the directional spool valve KKDE:

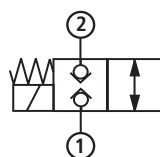


= N

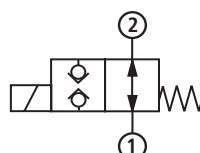


= P

Symbols of the directional seat valve KSDE:



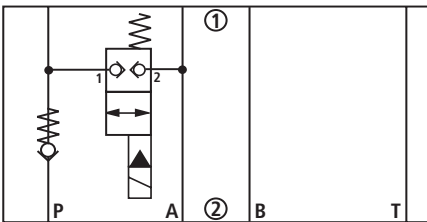
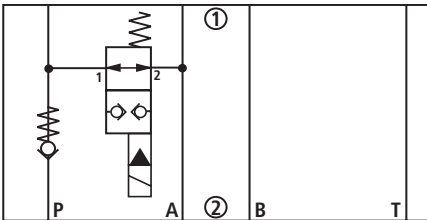
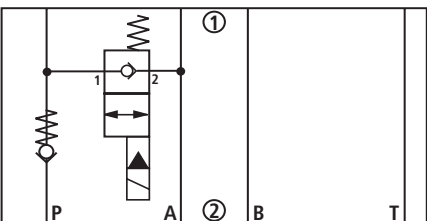
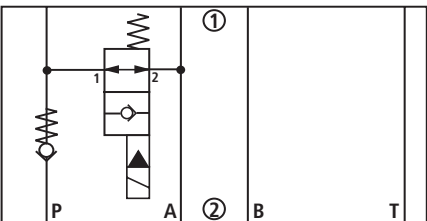
= N



= P

☐ ³⁵	Solenoid voltage at the directional spool (seat) valve:	Direct voltage 12 V Direct voltage 24 V Direct voltage 48 V Direct voltage 96 V Direct voltage 205 V	= G12 = G24 = G48 = G96 = G205
☐ ³⁶	Manual override:	without manual override with concealed manual override with screwable manual override (operation by means of knurled screw)	= N0 = N9 = N11 (only KSDE)
☐ ³⁷	Electrical types of connection:	03pol (2+PE) DIN EN 175301-803, without mating connector 02pol K40 DT 04-2PA Deutsch, without mating connector 02pol C4/Z30 AMP Junior-Timer, without mating connector	= K4 = K40 = C4

Short-circuit valves (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	HSZ 06A 498 -3X/B05 32 33 34 35 - 50 M00		85 x 44 x 50 1.6 kg	R901121122 RE 90005-03 R901123004
Sandwich plate	HSZ 06A 498 -3X/B06 32 33 34 35 - 50 M00		85 x 44 x 50 1.6 kg	R901121122 RE 90005-03 R901123004
Sandwich plate	HSZ 06A 498 -3X/A05 32 33 34 35 - 50 M00		85 x 44 x 50 1.6 kg	R901121122 RE 90005-03 R901123004
Sandwich plate	HSZ 06A 498 -3X/A06 32 33 34 35 - 50 M00		85 x 44 x 50 1.6 kg	R901121122 RE 90005-03 R901123004

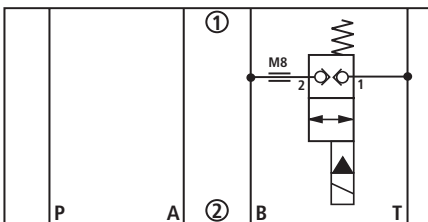
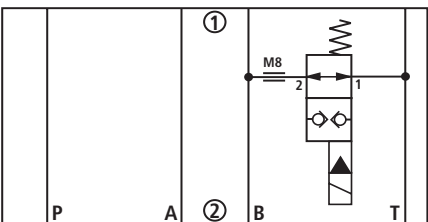
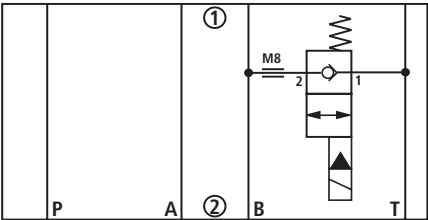
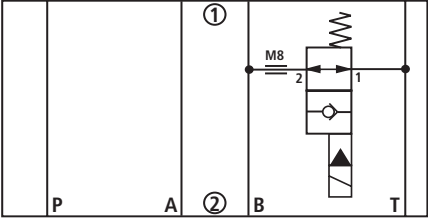
Short-circuit valves (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	HSZ 06A 519 -4X/B05		85 x 44 x 70 1.9 kg	R901123599 Internal thread M8 RE 90005-03
	HSZ 06A 519 -4X/B06		85 x 44 x 70 1.9 kg	R901123599 Internal thread M8 RE 90005-03
Sandwich plate	HSZ 06A 519 -4X/A05		85 x 44 x 70 1.9 kg	R901123599 Internal thread M8 RE 90005-03
	HSZ 06A 519 -4X/A06		85 x 44 x 70 1.9 kg	R901123599 Internal thread M8 RE 90005-03

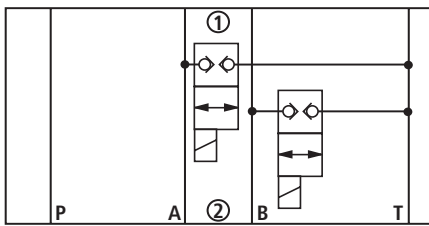
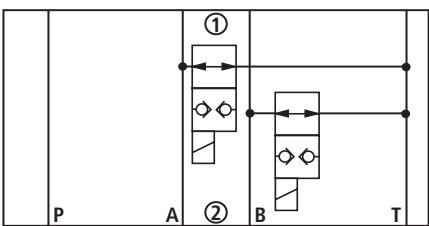
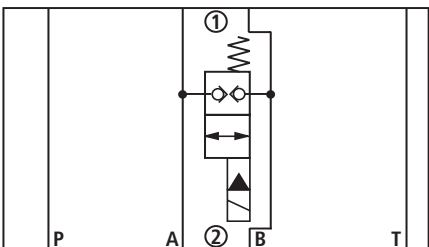
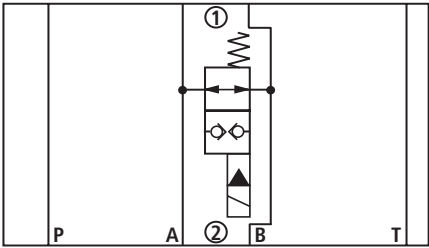
Short-circuit valves (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	HSZ 06A 589 -4X/B05	32 33 34 35 50 M00	90 x 44 x 60 1.6 kg	R901129876 Internal thread M8 RE 90005-03
	HSZ 06A 589 -4X/B06	32 33 34 35 50 M00	90 x 44 x 60 1.6 kg	R901129876 Internal thread M8 RE 90005-03
Sandwich plate	HSZ 06A 589 -4X/A05	32 33 34 35 50 M00	90 x 44 x 60 1.6 kg	R901129876 Internal thread M8 RE 90005-03
	HSZ 06A 589 -4X/A06	32 33 34 35 50 M00	90 x 44 x 60 1.6 kg	R901129876 Internal thread M8 RE 90005-03

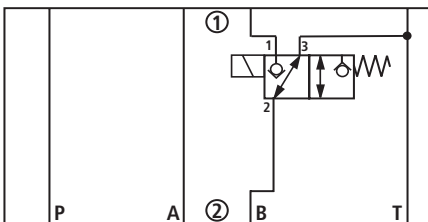
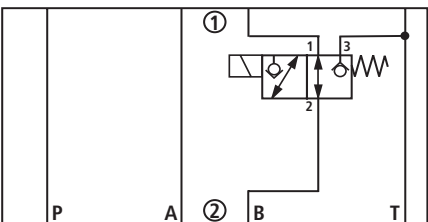
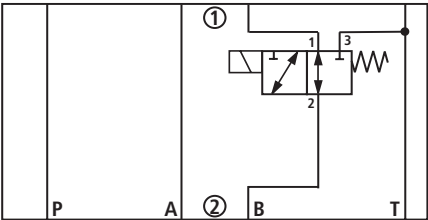
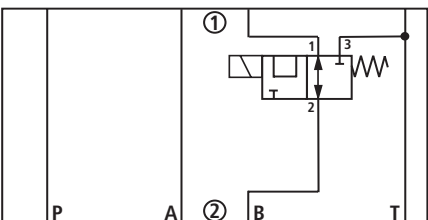
Short-circuit valves (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	HSZ 06A 525 -4X/B05	32 33 34 35 - 50 M00 	90 x 44 x 60 1.7 kg	R901130409 Internal thread M8 RE 90005-03
	HSZ 06A 525 -4X/B06	32 33 34 35 - 50 M00 	90 x 44 x 60 1.7 kg	R901130409 Internal thread M8 RE 90005-03
Sandwich plate	HSZ 06A 525 -4X/A05	32 33 34 35 - 50 M00 	90 x 44 x 60 1.7 kg	R901130409 Internal thread M8 RE 90005-03
	HSZ 06A 525 -4X/A06	32 33 34 35 - 50 M00 	90 x 44 x 60 1.7 kg	R901130409 Internal thread M8 RE 90005-03

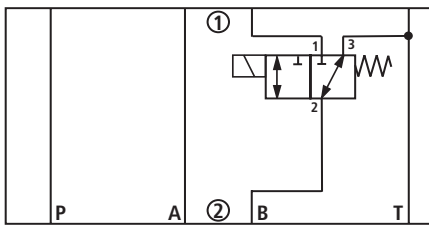
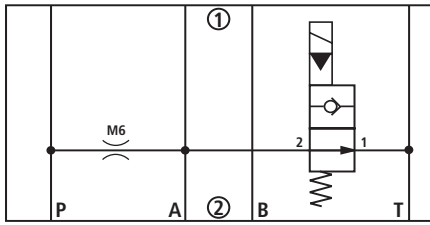
Short-circuit valves (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	HSZ 06A 472 -3X/AS1N-BS1N	35 36 37 M00 	140 x 44 x 50 3.0 kg	R901026944 RE 90005-03
	HSZ 06A 472 -3X/AS1P-BS1P	35 36 37 M00 	140 x 44 x 50 3.0 kg	R901026944 RE 90005-03
Sandwich plate	HSZ 06A 517 -4X/B05	32 33 34 35 M00 	90 x 44 x 50 1.2 kg	R901120319 RE 90005-03
	HSZ 06A 517 -4X/B06	32 33 34 35 M00 	90 x 44 x 50 1.2 kg	R901120319 RE 90005-03

Short-circuit valves (① = component side, ② = plate side)

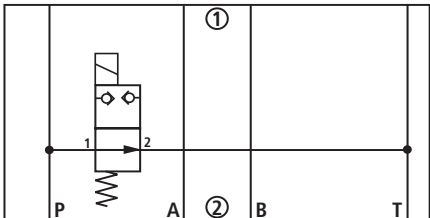
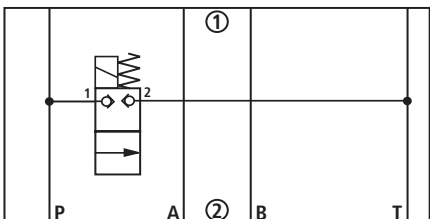
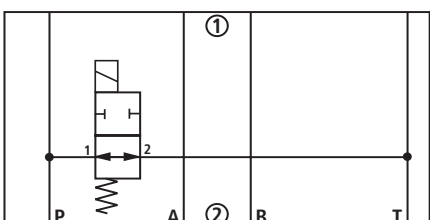
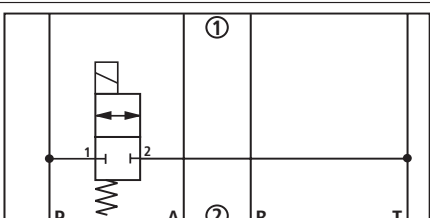
Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	HSZ 06A 473 -3X/KSDEC 33 34 35 M00		105 x 44 x 70 2.7 kg	R901034196 RE 18136-21
Sandwich plate	HSZ 06A 473 -3X/KSDEU 33 34 35 M00		105 x 44 x 70 2.7 kg	R901034196 RE 18136-21
Sandwich plate	HSZ 06A 473 -3X/KKDEU 33 34 35 M00		105 x 44 x 70 2.7 kg	R901034196 RE 18136-04
Sandwich plate	HSZ 06A 473 -3X/KKDEG 33 34 35 M00		105 x 44 x 70 2.7 kg	R901034196 RE 18136-04

Short-circuit valves (① = component side, ② = plate side)

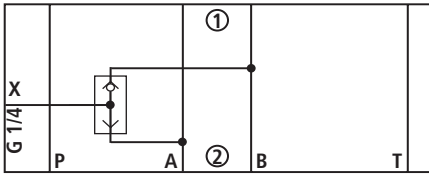
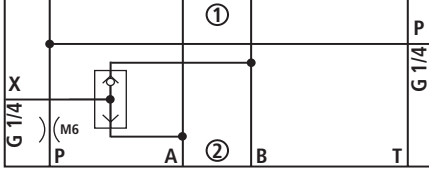
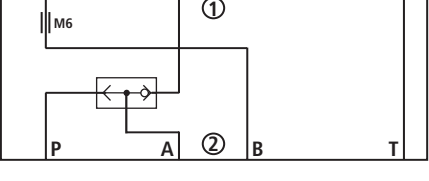
Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	HSZ 06A 473 -3X/KKDEC 33 34 35 M00		105 x 44 x 70 2.7 kg	R901034196 RE 18136-04
	HSZ 06 A435-3X/ D05-A06G24K4M00 R900248253		100 x 44 x 90 2.9 kg	R900248817 Orifice 0.5 mm RE 90005-03

More versions see page 75, functional group Rapid motion - creep speed differential circuit HSZ 06A 636

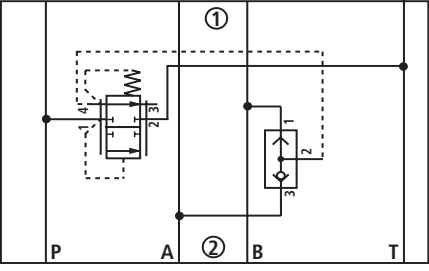
Short-circuit valves pilot function (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	HSZ 06 A638-4X/ KSDEPG24K4V00		178 x 44 x 90	R901251588 RE 00162-12
	R901248166			
Sandwich plate	HSZ 06 A638-4X/ KSDENG24K4V00		178 x 44 x 90	R901251588 RE 00162-12
	R901248168			
Sandwich plate	HSZ 06 A638-4X/ KKDEPG24K4V00		178 x 44 x 90	R901251588 RE 00162-12
	R901248175			
Sandwich plate	HSZ 06 A638-4X/ KKDENG24K4V00		178 x 44 x 90	R901251588 RE 00162-12
	R901248177			

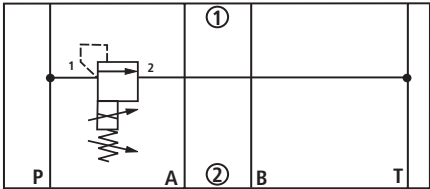
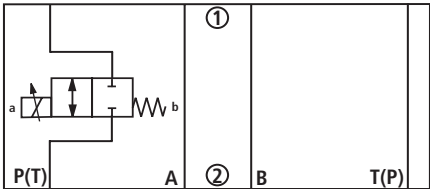
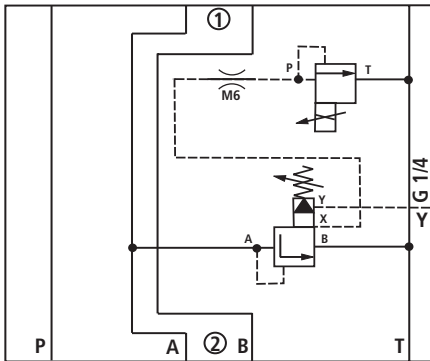
Shuttle valves (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	HSZ 06A 232-4X/ MHSU2KM01		90 x 44 x 40	R901105952 RE 18205
	R901105946		1.1 kg Side E X G 1/4	
Sandwich plate	HSZ 06A 660-4X/ MHSU2K-D25M01		115 x 44 x 40	R901222663 Orifice 2.5 mm RE 18205
	R901220129		1.02 kg Side E Side F X P G 1/4 G 1/4	
Sandwich plate	HSZ 06A 461-3X/ 420-LG6-D..M00		81 x 44 x 40 0.94 kg	R900775581 Internal thread M6

Pressure compensators (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	HSZ 06A 639-4X/ VCSQ11MHSUM00		165 x 44 x 70	R901251829 RE 18205 RE 90005-03
	R901250976		3.455 kg	

Proportional valves (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	HSZ 06 A638-4X/ KBPSPBG24K4V00 R901248164		80 x 44 x 40	R901251588 RE 18139-05
	HSZ 06 A638-4X/ KBPSPAG24K4V00 R901248165			R901251588 RE 18139-04
Sandwich plate with R ring plate	HSZ 06 A637-3X/ KKDSNG24N0K4V00 R901243964		100 x 44 x 60 3.015 kg	R901244695 RE 18139-06
	HSZ 06 A637-3X/ KKDSPG24N0K4V00 R901244401			R901244695 RE 18139-06
Sandwich plate	HSZ 06 A470-3X/ XY-P8G24K4-08M01		140 x 44 x 100 4.5 kg	R901050155 Orifice 0.8 mm RE 25731 RE 18139-04 RE 18139-05

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight	
		Size of the ports		
Sandwich plate	HSZ 06 A541-3X/M00		120 x 44 x 40	R900268894
	R900913208			RE 29181
Sandwich plate	HSZ 06 A466-3X/M00		120 x 44 x 70	R901007360
	R901007270			RE 64655

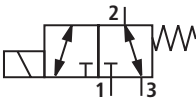
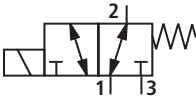
Functional group clamping hydraulics

Example: **HSZ 06 A 433 – 3X/PRDB –**

46	47	47.2

– K1

48	49	50	51	2	3

46 ☐	Adjustment element at the 3-way pressure control valve	Setscrew with internal hexagon Hand wheel Hand wheel for panel mounting Adjustment protection, set in the factory	= L = K = O = C
47 ☐	Set pressure at the 3-way pressure control valve:	35 to 210 bar – setting 49 bar 3.5 to 105 bar – setting 14 bar 2 to 55 bar – setting 14 bar 2 to 28 bar – setting 14 bar 2 to 14 bar – setting 14 bar 52 to 315 bar – setting 70 bar	= A = B = D = E = S = W
47.2 ☐	Seal material ⚠ Attention! Observe compatibility of seals with hydraulic fluid used!	NBR seals FKM seals (other seals upon request)	= N = V
48 ☐	Symbol of the 3/2 directional spool valve:		= C
			= U
49 ☐	Solenoid voltage at the directional spool valve:	Direct voltage 12 V Direct voltage 24 V Direct voltage 48 V Direct voltage 96 V Direct voltage 205 V	= G12 = G24 = G48 = G96 = G205
50 ☐	Manual override at the 3/2 directional spool valve:	Without manual override Concealed manual override	= N0 = N9
51 ☐	Electrical types of connection	03pol (2+PE) DIN EN 175301-803, without mating connector 02pol K40 DT 04-2PA Deutsch, without mating connector 02pol C4/Z30 AMP Junior-Timer, without mating connector	= K4 = K40 = C4

Clamping hydraulics (① = component side, ② = plate side)

Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet and more information
	Material no.		Weight Size of the ports	
Sandwich plate	HSZ 06A 433-3X/PRDB - ☐ ☐ ☐ - K1 ☐ ☐ ☐ ☐ M01		170 x 44 x 70	R900247860
Fitting of the sandwich plate:	PRDB - ☐ ☐ ☐		4.5 kg	
Pressure control valve 3/2 directional spool valve	KKDER1 ☐ A/H ☐ V		Side F M G 1/4	RE 18136-04 Valve on side E RE 18136-04 valve on side F
SPULE GZ37-4 24VDC 22W				
Sandwich plate	HSZ 06A 433-3X/PRDB - ☐ ☐ ☐ - K1 ☐ ☐ ☐ ☐ M01		170 x 44 x 70	R900247860
Fitting of the sandwich plate:	PRDB - ☐ ☐ ☐		4.5 kg	
Pressure control valve 3/2 directional spool valve	KKDER1 ☐ A/H ☐ V		Side F M G 1/4	RE 18136-04 Valve on side E RE 18136-04 valve on side F
SPULE GZ37-4 24VDC 22W				

Order example

For complete device with 3/2 directional seat valve and pressure control valve:

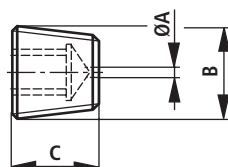
HSZ 06A 433-3X/PRDB - ☐ ☐ ☐ - K1 ☐ ☐ ☐ ☐ M01

Sandwich plate	HSZ 06-26724-AA/ G24K4M01 R900955350		180 x 44 x 160 10.0 kg	R900277006 RE 90005-03 RE 26850
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Orifices, R ring plate, seals

Form 7 (RN 115.06)

Plug screw DIN 906



⚠ Attention!
Spelling ()
with complete type!

50



51

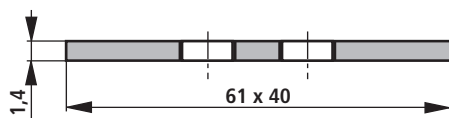


52



B	M6	M8 x 1	R1/8
C	6	8	8
ØA	Material no.		
0.6 (06)	R900157934	R900149430	R900159145
0.7 (07)	R900157931	R900143957	–
0.8 (08)	R900152276	R900136843	R900144212
0.9 (09)	R900695625	R900643104	–
1.0 (10)	R900149335	R900136842	R900135607
1.1 (11)	R900645667	R900144763	–
1.2 (12)	R900152286	R900139101	R900146270
1.3 (13)	R900152291	R900144762	R900891295
1.4 (14)	R900171199	R900158791	R900135606
1.5 (15)	R900148823	R900133712	R900144910
1.8 (18)	R900157932	R900150953	R900142840
2.0 (20)	R900156650	R900137299	R900155897
2.5 (25)	R900157929	R900137445	R900148351
3.0 (30)	R900181894	R900144761	R900111282

R ring plate	Material no.
HSZ 06 A001-3X/M00	R900329774
HSZ 06 A001-3X/V00	R900329775



Seal kit - plate:

Seal material	Material no.
NBR	R900313192
FKM	R900313193