

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

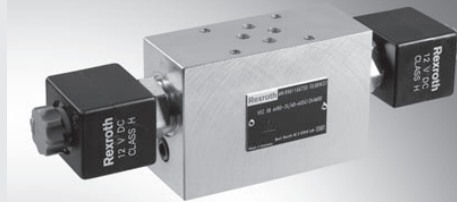
 Size 6
 Component series 1X, 3X and 4X
 Maximum operating pressure 315 bar


Table of contents

Contents	Page	Contents	Page
Features and safety instructions	2	Functional group combination pressure and blocking function:	
Explanation of the type key	2	– Complementary details	51
Advanced applications	3 to 4	– Counterholding function	52
Distance plates:		– Pressure feed function	53, 54
– Distance plates without port	5, 6	– Lowering brake function	55, 56
– Distance plates with port	7 to 14	Functional group flow control function:	
– Distance plates with connections	15 to 20	– Complementary details	57
– Extension plates	20	– Throttle valves	58, 59
Functional group blocking function:		– Flow control valves (see also RE 28164)	60, 61
– Complementary details	21 to 23	Functional group rapid motion - creep speed function:	
– Check valves M-SR..., D7,8..., VUCN / VURN...	24 to 30	– Complementary details	62
– Complementary details	31	– Flow control cartridge valve:	
– Check valves Z1S6-	32 to 34	• Seat valve normally closed, blocking on one side	63, 64
– Complementary details	35	• Seat valve normally closed, blocking on both sides	65
– Check valves Z2S6-	36, 37	• Seat valve normally open, blocking on one side	66, 67
– Blocking function, electrically switchable	38 to 44	• Seat valve normally open, blocking on both sides	68
– Blocking function, mechanically actuated	45	– Flow control built-on valve:	
Functional group pressure function:		• Seat valve normally closed, blocking on one side	69 to 71
– Complementary details	46	• Seat valve normally open, blocking on one side	72 to 74
– Pressure relief valves, direct operated	47 to 49	– Differential circuit:	
– Pressure reducing valves, pilot operated	50	• Directional valve electrically switchable	75
– Pressure reducing valves, direct operated	50	Functional group miscellaneous:	
(Pressure switch, see data sheet RE 50060, pressure sensor see data sheet RE 29260)		– Complementary details	76 to 79
		– Short-circuit valves	80 to 86
		– Short-circuit valves pilot function	87
		– Shuttle valves, pressure compensator	88
		– Proportional valves	89, 90
		– Clamping hydraulics	91, 92
		– Orifices, seals, R ring plates	93

 Information on available spare parts:
www.boschrexroth.com/spc

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//Cn//T0
- 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/ [] [] [] *

1 [] Serial number of the functional design from 001 ... 999 (is determined in the factory)

2 [] **Seal material:** NBR seals (standard)
FKM seals
(other seals upon request)

⚠ Attention!
Observe compatibility of seals with hydraulic fluid used!

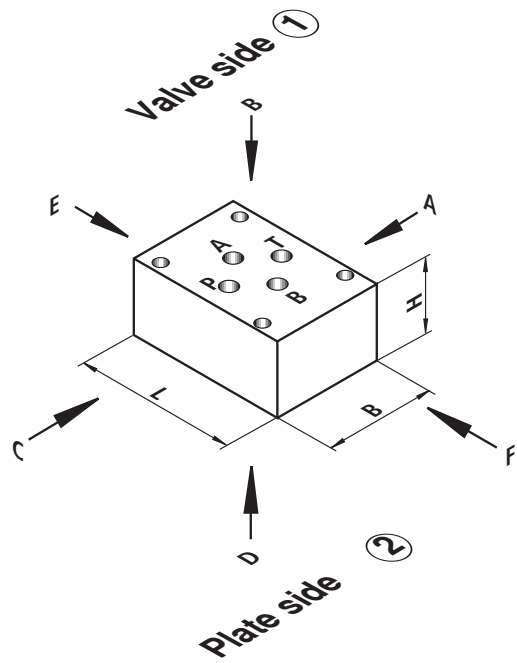
3 [] **Type of connection:** No external connection
Connection according to DIN 3852 part 1 with thread according to DIN ISO 228 (Whitworth pipe thread)

4 [*] 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!

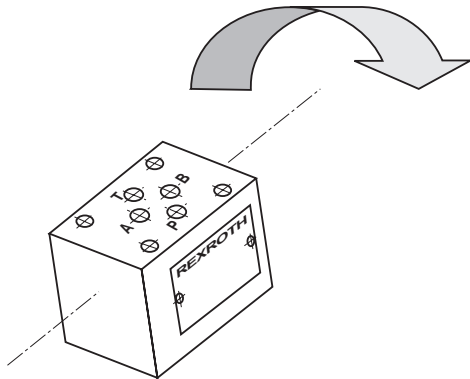
Sandwich plates with possible valve fitting are available as both, complete device (with valves assembled) or as construction kit plate (only with seals, plug screws, name plate).

- Other circuits and designs as specified in the data sheet are only possible after consultation!

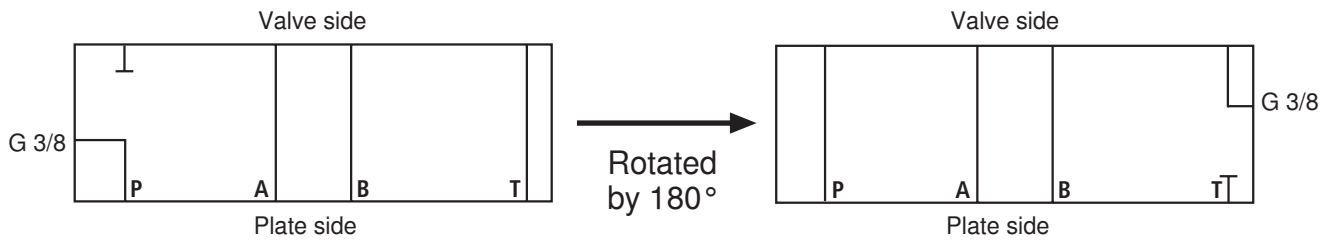
- Connection threads in HSZ plates are always covered in a pressure-tight form.

Extended applications of HSZ 06 sandwich plates with R ring plate

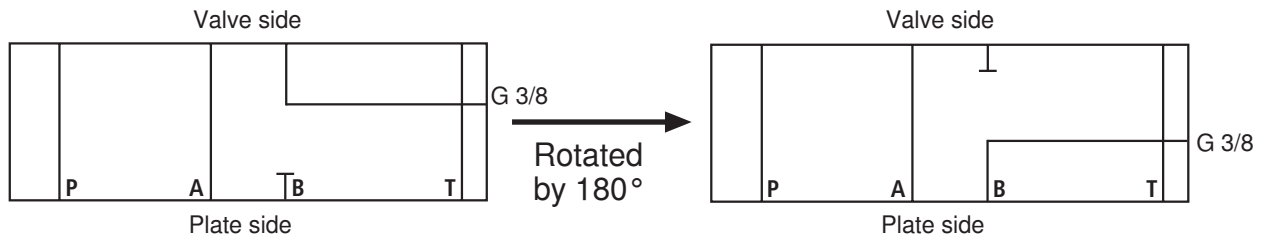
HSZ 06 sandwich plates with R ring plates can be rotated by 180° around the axis
 Due to the changed installation position, a different function results (circuit diagram).
 See the following examples.



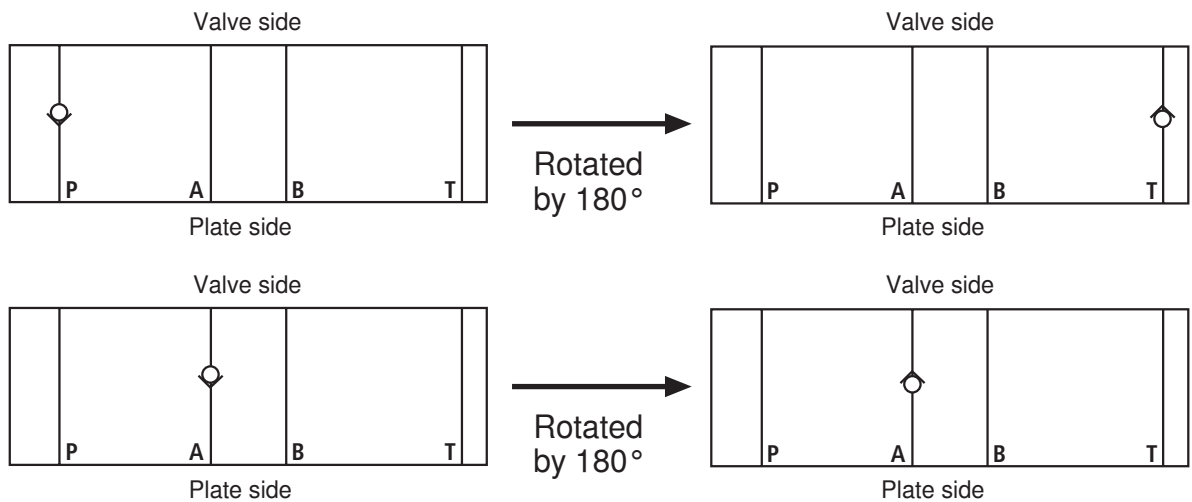
Distance plates with port in the P or T channel



Distance plates with port in the A or B channel

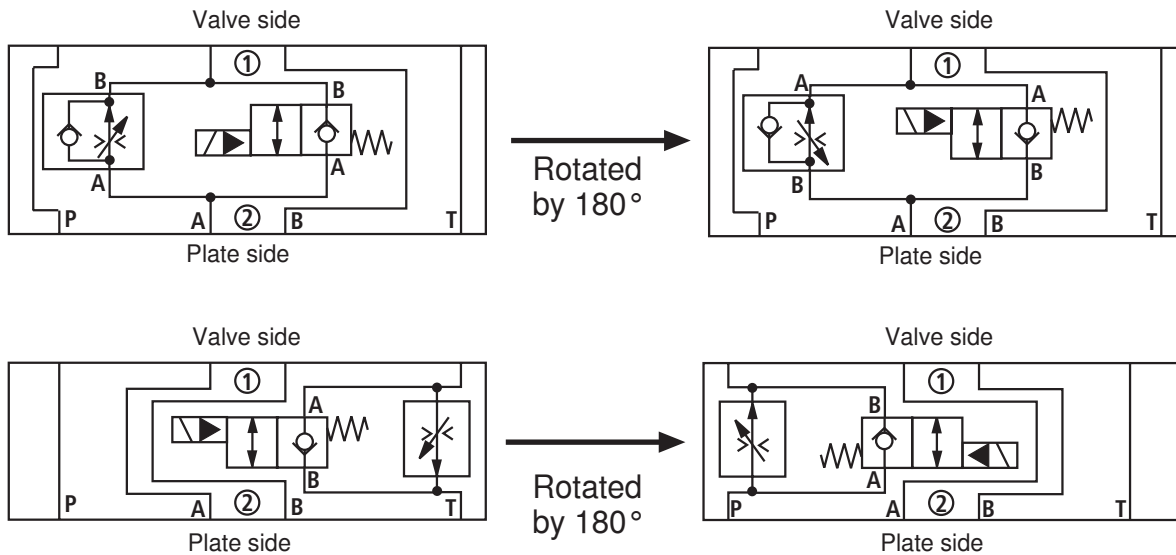


Check valves



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	R900262275
	R900516529		0.2 kg	
Sandwich plate	HSZ 06 A007-3X/M00		65 x 44 x 20	R900262276
	R900516530		0.4 kg	
Sandwich plate	HSZ 06 A300-3X/M00		65 x 44 x 40	R900262699
	R900523148		0.8 kg	
Sandwich plate	HSZ 06 A004-3X/M00		65 x 44 x 50	R901040238
	R901040119		1.0 kg	
Sandwich plate	HSZ 06 A012-3X/M00		65 x 44 x 60	R900262277
	R900516531		1.2 kg	
Sandwich plate	HSZ 06 A008-3X/M00		65 x 44 x 80	R900262647
	R900522535		1.6 kg	
Sandwich plate	HSZ 06 A085-3X/M00		65 x 44 x 10	R900262118
	R900514667		0.2 kg	

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	R900276171
	R900951457		1.6 kg	
Comment: Hole pattern displaced by 76.5 mm in direction A				
Sandwich plate	HSZ 06-27867-ZA/M00		101 x 44 x 50	R900751903
	R900751895		1.4 kg	
Comment: Hole pattern displaced by 40.5 mm in direction B				
Sandwich plate	HSZ 06-38081-ZA/M00		180 x 44 x 40	R901176042
	R901175997		2.3 kg	
Comment: Hole pattern displaced by 115 mm in direction A				
Sandwich plate	HSZ 06-38086-ZA/M00		180 x 44 x 40	R901178034
	R901177875		2.3 kg	
Comment: Hole pattern displaced by 115 mm in direction A				

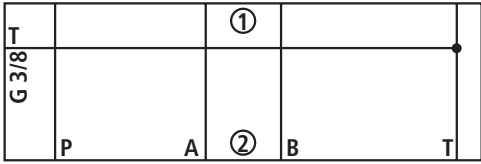
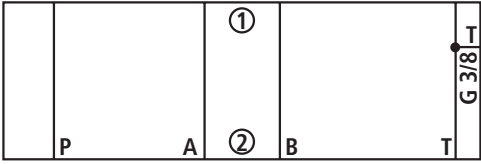
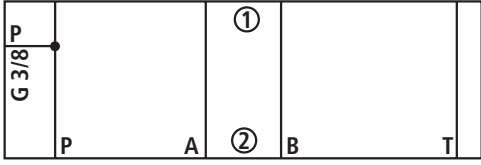
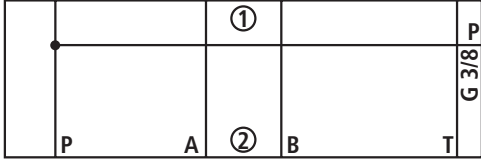
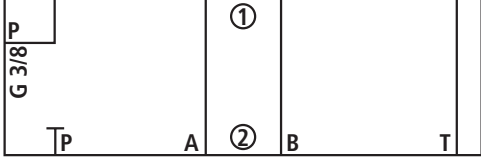
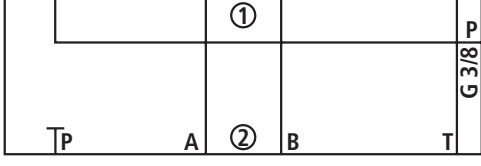
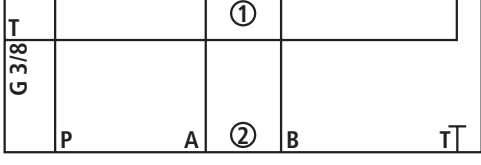
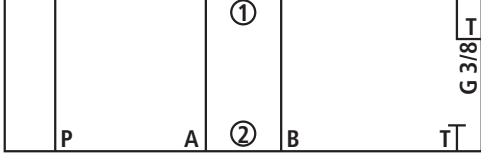
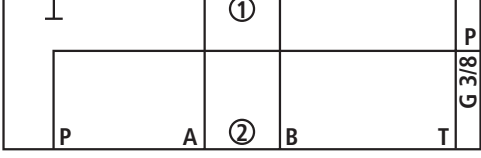
Distance plates without port with orifice fitting (① = component side, ② = plate side)

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	R900262118
	R900514667		0.2 kg	

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	
Sandwich plate with R ring plate	HSZ 06 A655-3X/M01		90 x 44 x 40	R901188312
	R901188300		1.2 kg	

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	

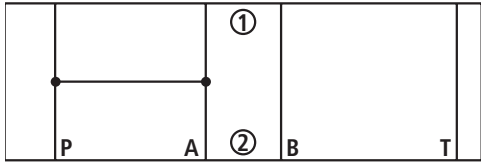
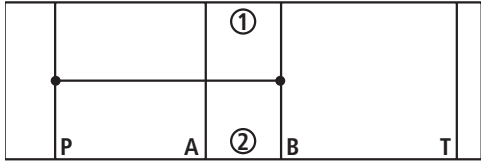
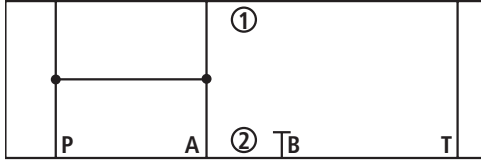
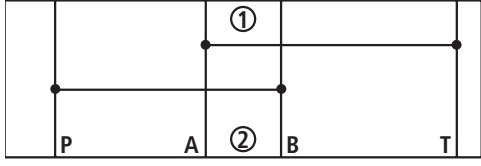
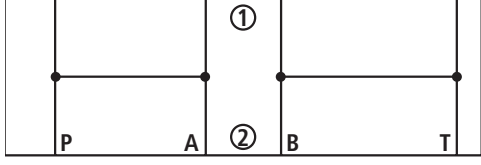
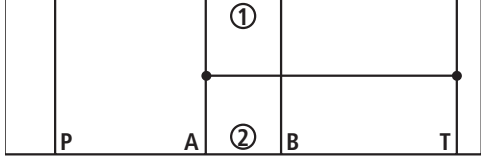
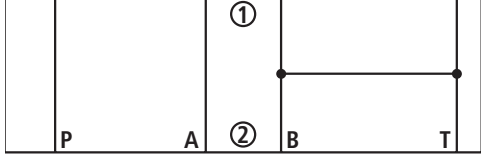
Distance plates with port in the A and B channel (① = component side, ② = plate side)

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	

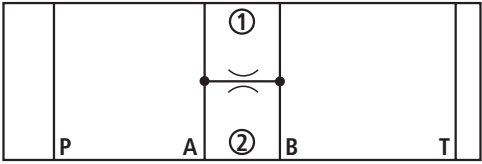
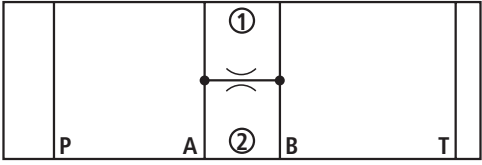
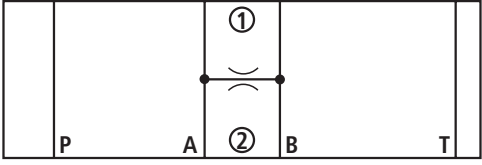
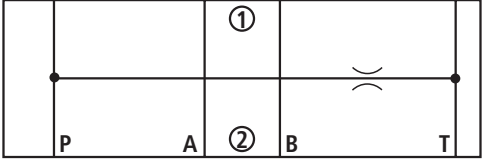
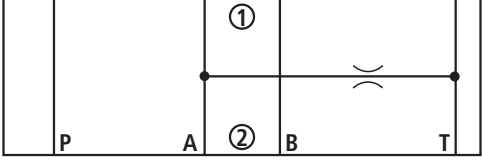
Distance plates with port in the A or B channel (① = component side, ② = plate side)

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	

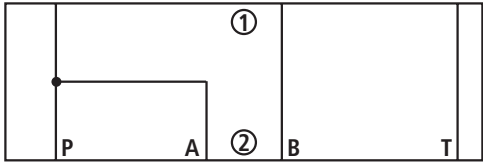
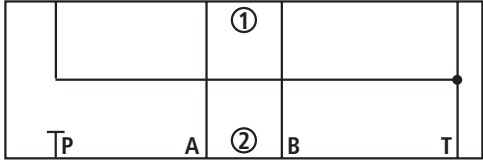
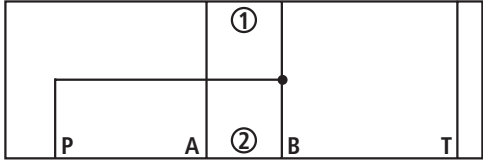
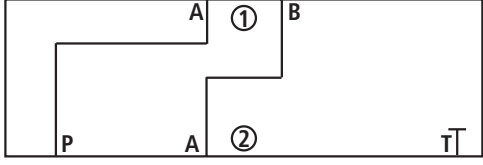
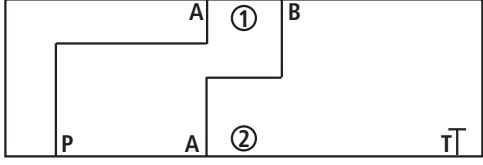
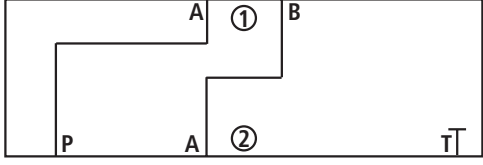
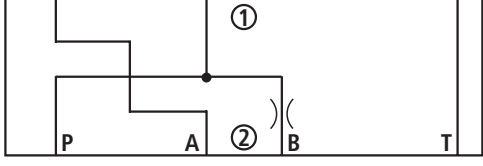
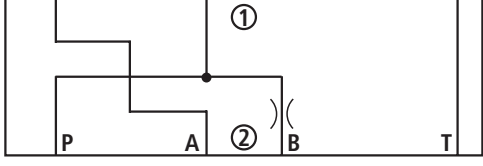
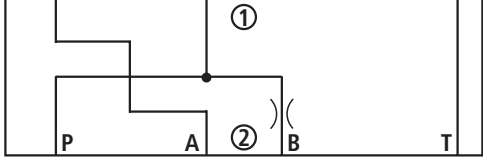
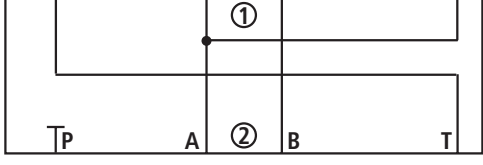
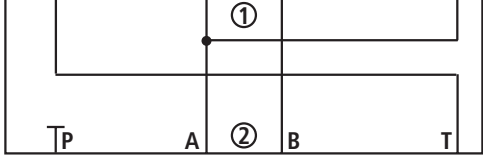
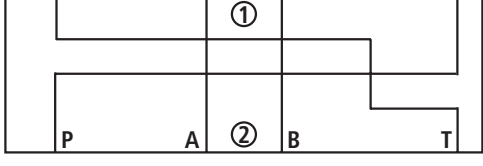
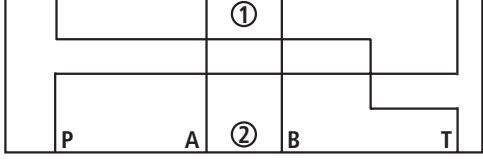
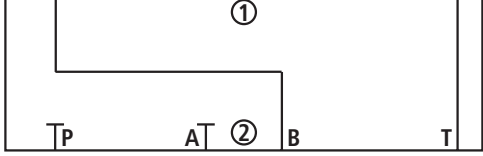
Distance plates with connections (① = component side, ② = plate side)

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	R900262274
	R900516528		0.4 kg	
Sandwich plate with R ring plate	HSZ 06 A308-3X/M00		65 x 44 x 20	R900262872
	R900526439		0.4 kg	
Sandwich plate	HSZ 06 A437-3X/M00		75 x 44 x 40	R900619269
	R900618537		1.0 kg	
	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	R900262269
	R900516523		0.6 kg	
Sandwich plate with R ring plate	HSZ 06 A079-3X/M00		65 x 44 x 30	R900262478
	R900520150		0.6 kg	
Sandwich plate with R ring plate	HSZ 06 A529-3X/M00		65 x 44 x 20	R900266369
	R900571362		0.4 kg	
Sandwich plate with R ring plate	HSZ 06 A333-3X/M00		65 x 44 x 20	R900265197
	R900533927		0.4 kg	

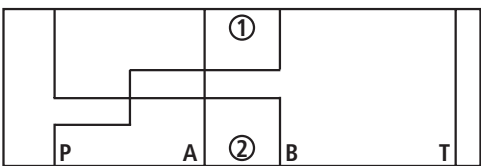
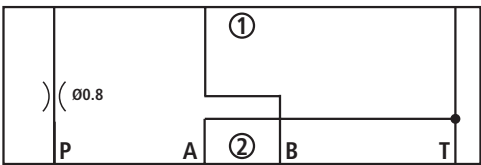
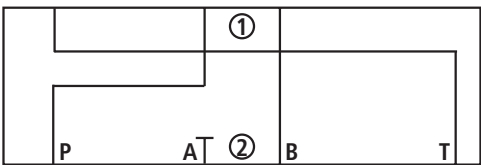
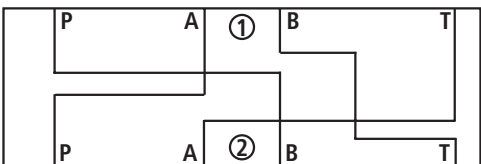
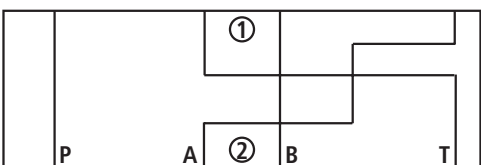
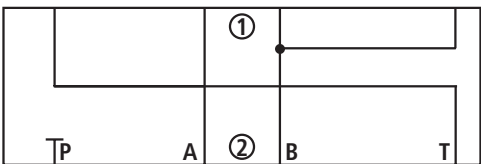
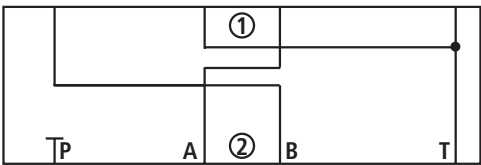
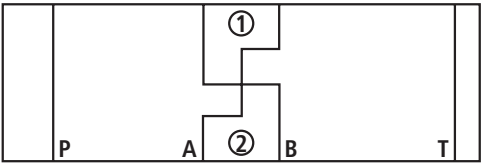
Distance plates with connections and orifice (① = component side, ② = plate side)

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	R900732606 Internal thread M6x1
	R901141263		0.4 kg	
Sandwich plate	HSZ 06 A071-3X/M00		65 x 44 x 20	R900262268 Internal thread M8x1
	R900516522		0.4 kg	
Sandwich plate with R ring plate	HSZ 06 A597-3X/D00M00		98 x 44 x 40	R900275692 Internal thread M6x1
	R901246265		1.1 kg	
Sandwich plate	HSZ 06 A312-3X/M00		90 x 44 x 20	R900262385 Internal thread M6x1
	R900518231		0.6 kg	
Sandwich plate with R ring plate	HSZ 06 A591-3X/D00M00		98 x 44 x 40	R900274391 Internal thread M6x1
	R901243424		1.1 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 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		0.8 kg	
Sandwich plate	HSZ 06 A328-3X/M00		65 x 44 x 40	R900262783
	R900524659		0.8 kg	
Sandwich plate	HSZ 06 A328-3X/M00		65 x 44 x 40	R900262783
	R900524659		0.8 kg	
Sandwich plate	HSZ 06 A427-3X/M00		65 x 44 x 40	R900278533
	R900965233		0.8 kg	
Sandwich plate	HSZ 06 A427-3X/M00		65 x 44 x 40	R900278533
	R900965233		0.8 kg	
Sandwich plate	HSZ 06 A427-3X/M00		65 x 44 x 40	R900278533
	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 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	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	R901184516
	R901184000		0.8 kg	
Sandwich plate	HSZ 06-26791-AA/HM00		130 x 44 x 40	R900241153 Internal thread M8x1
	R900976963 Comment: Hole pattern displaced by 65 mm in direction A		1.6 kg	
Sandwich plate	HSZ 06 A477-3X/M00		65 x 44 x 40	R901043053
	R901042648		0.8 kg	
Sandwich plate	HSZ 06-38046-ZA/M00		80 x 70 x 60	R901134794
	R901134788		2.4 kg	
Sandwich plate with R ring plate	HSZ 06-27408-ZA/M00		65 x 44 x 50	R900240082
	R900975377		1.0 kg	
Sandwich plate	HSZ 06 A647-3X/M00		65 x 44 x 40	R901163165
	R901161174		0.8 kg	
Sandwich plate	HSZ 06 A649-3X/M00		65 x 44 x 60	R901168877
	R901167912		1.2 kg	
Sandwich plate	HSZ 06 A061-3X/M00		65 x 44 x 40	R900265635
	R900560232		0.8 kg	

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	R900279833	
	R900328955		2.6 kg		
Sandwich plate	HSZ 06-38079-AA/HM00		100 x 85 x 40	R901172510	
	R901172503		2.5 kg	RE 20380	
Sandwich plate with R ring plates	HSZ 06-26026-ZA/M00		95 x 65 x 20	R901025196	
	R901025202		0.86 kg		
Sandwich plate	HSZ 06-26887-ZA/M00		100 x 80 x 40	R900782908	
	R900782872		2.3 kg		
Sandwich plate	HSZ 06-26736-ZA/M00		150 x 110 x 40	R900277610	
	R900959202		4.8 kg		

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	
Sandwich plate	HSZ 06-26882-ZA/M01		100 x 85 x 40	R900781407
	R900780753		2.5 kg	
Sandwich plate	HSZ 06-26560-ZA/M01		111 x 101 x 40	R900263217
	R900555049		3.2 kg	

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		65 x 44 x 40	R901050799
	R901049947		0.8 kg	
Version for hexagon socket head cap screw:				
Sandwich plate	HSZ 06-A029-3X/M00		60 x 44 x 24	R900265210
	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

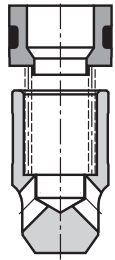
Example: **HSZ 06 A** – 3X/

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

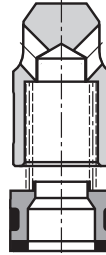
11
 Cracking pressure at the check valve Type M-SR8...: (installation kit) 1 bar = **05**

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 tolerance $\pm 10\%$)	Nominal voltage of the DC solenoid in case of operation with alternating voltage	Ordering code
110 V - 50/60 Hz 120 V - 60 Hz	96 V	G96
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 20 0056 ³¹ 000

³¹

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

Flow from 1 to 2

VURN-08A- 0431 21 0056 ³¹ 000

³¹

02 = 2 bar

Flow from 2 to 1

For number: 490 (see page 29)

VUCN-08A- 0431 23 0085 ³² 000

³²

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

Flow from 1 to 2

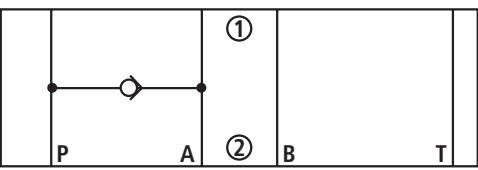
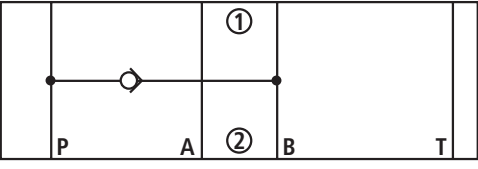
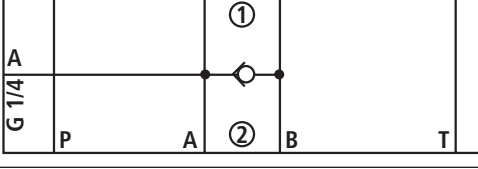
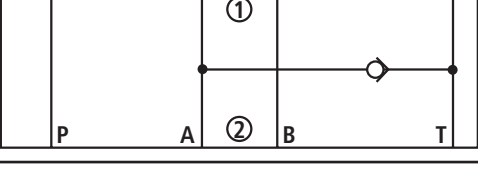
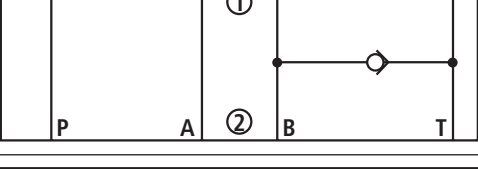
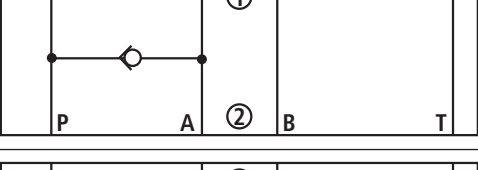
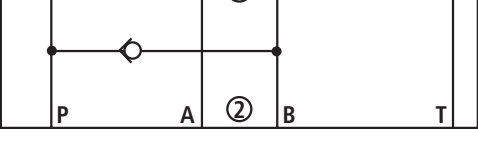
VURN-08A- 0431 27 0085 ³³ 000

³³

00 = 1 bar
 02 = 2 bar

Flow from 2 to 1

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		100 x 44 x 40	R900262198
	R900578929		1.3 kg	
Fitting of the sandwich plate:				
Check valve (installation kit)	M-SR8KE <input type="checkbox"/> ³¹ -1X/ <input type="checkbox"/> ¹⁴			RE 20380
Sandwich plate	HSZ 06 A200-3X/05M00		100 x 44 x 40	R900262199
	R900940993		1.3 kg	
Fitting of the sandwich plate:				
Check valve (installation kit)	M-SR8KE <input type="checkbox"/> ³¹ -1X/ <input type="checkbox"/> ¹⁴			RE 20380
Sandwich plate	HSZ 06 A186-3X/05M00		90 x 44 x 40	R900262220
	R900574366		1.2 kg	
Fitting of the sandwich plate:				
Check valve (installation kit)	M-SR8KE <input type="checkbox"/> ³¹ -1X/ <input type="checkbox"/> ¹⁴			RE 20380
Sandwich plate with R ring plate	HSZ 06A338-3X/05M00		115 x 44 x 40	R900265450
	R900702486		1.6 kg	
Fitting of the sandwich plate:				
Check valve (installation kit)	M-SR8KE <input type="checkbox"/> ³¹ -1X/ <input type="checkbox"/> ¹⁴			RE 20380
Sandwich plate with R ring plate	HSZ 06 A539-3X/05M00		120 x 44 x 40	R900266705
	R900737643		1.6 kg	
Fitting of the sandwich plate:				
Check valve (installation kit)	M-SR8KE <input type="checkbox"/> ³¹ -1X/ <input type="checkbox"/> ¹⁴			RE 20380
Sandwich plate with R ring plate	HSZ 06 A552-3X/05M00		115 x 44 x 40	R900265451
	R900536892		1.4 kg	
Fitting of the sandwich plate:				
Check valve (installation kit)	M-SR8KE <input type="checkbox"/> ³¹ -1X/ <input type="checkbox"/> ¹⁴			RE 20380
Sandwich plate with R ring plate	HSZ 06 A555-3X/05M00		120 x 44 x 40	R900266699
	R901268623		1.6 kg	
Fitting of the sandwich plate:				
Check valve (installation kit)	M-SR8KE <input type="checkbox"/> ³¹ -1X/ <input type="checkbox"/> 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
	Material no.		Weight	and more information
			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:				
Check valve (installation kit)	M-SR8KE <input type="checkbox"/> ³¹ -1X/ <input type="checkbox"/> ¹⁴		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:				
Check valve (installation kit)	M-SR8KE <input type="checkbox"/> ³¹ -1X/ <input type="checkbox"/> ¹⁴		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:				
Check valve (installation kit)	M-SR8KE <input type="checkbox"/> ³¹ -1X/ <input type="checkbox"/> ¹⁴			RE 20380

Order example
 For complete device: **HSZ 06A 185-3X/** ¹¹ ² ³ **05** **M** **00**

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		100 x 44 x 40	R900262270	
	R900555873		1.3 kg		
Fitting of the sandwich plate:					
Check valve D7,8- ³¹ -1X/ Z1S6T					
Sandwich plate	HSZ 06 A187-3X/ 05BARM00		95 x 44 x 40	R900266450	
	R900935632		1.3 kg		
Fitting of the sandwich plate:					
Check valve D7,8- ³¹ -1X/ Z1S6T					
Sandwich plate	HSZ 06 A181-3X/ 05BARM01		75 x 44 x 40	R900262263	
	R900559668		1.0 kg		
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	R901028338
	R901239257		2.9 kg	
Fitting of the sandwich plate: Check valve				RE 90005-03
VUCN-08A- 0431200056 ³¹ 000				
Sandwich plate with R ring plate	HSZ 06 A402-3X/ D00-B20RV21M00		220 x 44 x 70	R901028338
	R901239264		2.9 kg	
Fitting of the sandwich plate: Check valve				RE 90005-03
VURN-08A- 0431210056 ³¹ 000				
Sandwich plate	HSZ 06 A517-4X/ 20RV21M00		90 x 44 x 50	R901120319
	R901244318		1.3 kg	
Fitting of the sandwich plate: Check valve				RE 90005-03
VURN-08A- 0431210056 ³¹ 000				
Sandwich plate	HSZ 06 A517-4X/ 50RV20M00		90 x 44 x 50	R901120319
	R901244317		1.3 kg	
Fitting of the sandwich plate: Check valve				RE 90005-03
VUCN-08A- 0431200056 ³¹ 000				
Sandwich plate	HSZ 06 A519-4X/ 10RV2000M00		85 x 44 x 70	R901123599 Internal thread M8
	R901171566		1.8 kg	
Fitting of the sandwich plate: Check valve				RE 90005-03
VUCN-08A- 0431200056 ³¹ 000				
Sandwich plate	HSZ 06 A519-4X/ 20RV2100M00		85 x 44 x 70	R901123599 Internal thread M8
	R901249904		1.8 kg	
Fitting of the sandwich plate: Check valve				RE 90005-03
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	
Fitting of the sandwich plate:			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	
Fitting of the sandwich plate: Check valve VUCN-08A- 0431200056 ³¹ <input type="text"/> 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	
Fitting of the sandwich plate: Check valve VUCN-08A- 0431200056 ³¹ <input type="text"/> 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 <input type="text"/> 000				RE 90005-03
Check valve D7,8- ³¹ <input type="text"/> -1X/ Z1S6T				
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 <input type="text"/> 000				RE 90005-03
Check valve D7,8- ³¹ <input type="text"/> -1X/ Z1S6T				

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 <input type="text"/> 000				
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 <input type="text"/> 000				
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 <input type="text"/> 000				
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 <input type="text"/> 000				
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 <input type="text"/> 000				
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 <input type="text"/> 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 A525-4X/ 10RV20M00		90 x 44 x 60	R901130409 Internal thread M8	
	R901247481		1.7 kg		
Fitting of the sandwich plate:					
Check valve					
VUCN-08A- 0431200056 ³¹ 000					
Sandwich plate with R ring plate	HSZ 06 A525-4X/ 20RV21M00		90 x 44 x 60	R901130409 Internal thread M8	
	R901247479		1.7 kg		
Fitting of the sandwich plate:					
Check valve					
VURN-08A- 0431210056 ³¹ 000					
Sandwich plate with R ring plate	HSZ 06 A589-4X/ 10RV20M00		90 x 44 x 60	R901129876 Internal thread M8	
	R901247486		1.7 kg		
Fitting of the sandwich plate:					
Check valve					
VUCN-08A- 0431200056 ³¹ 000					
Sandwich plate with R ring plate	HSZ 06 A589-4X/ 20RV21M00		90 x 44 x 60	R901129876 Internal thread M8	
	R901247485		1.7 kg		
Fitting of the sandwich plate:					
Check valve					
VURN-08A- 0431210056 ³¹ 000					

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 _ö = 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		64 x 44 x 40	R901036983 RE 21534
	R901086070		0.78 kg	
Sandwich plate	Z1S6 ³¹ P ³² 05 -4X/V		64 x 44 x 40	R901036983 RE 21534
	R901086051		0.78 kg	
Sandwich plate	Z1S6 ³¹ E ³² 05 -4X/V		64 x 44 x 40	R901036983 RE 21534
	R901085992		0.78 kg	
Sandwich plate	Z1S6 ³¹ C ³² 05 -4X/V		64 x 44 x 40	R901036983 RE 21534
	R901086081		0.78 kg	
Sandwich plate	Z1S6 ³¹ D ³² 05 -4X/V		64 x 44 x 40	R901036983 RE 21534
	R901086090		0.78 kg	
Sandwich plate	Z1S6 ³¹ B ³² 05 -4X/V		64 x 44 x 40	R901036983 RE 21534
	R901086077		0.78 kg	
Sandwich plate	Z1S6 ³¹ T ³² 05 -4X/V		64 x 44 x 80	R901036983 RE 21534
	R901086058		0.78 kg	
Sandwich plate	Z1S6 ³¹ F ³² 05 -4X/V		64 x 44 x 40	R901036983 RE 21534
	R901086037		0.78 kg	

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 <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="text-align: center;">31</td><td style="text-align: center;">32</td></tr><tr><td style="text-align: center;">AB-P</td><td style="text-align: center;">05</td></tr></table> -4X/V	31	32	AB-P	05		64 x 44 x 40	R901036983
	31	32						
AB-P	05							
R901140893		0.77 kg	RE 21534					
Sandwich plate	Z1S6 <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="text-align: center;">31</td><td style="text-align: center;">32</td></tr><tr><td style="text-align: center;">T-P</td><td style="text-align: center;">05</td></tr></table> -4X/V	31	32	T-P	05		64 x 44 x 40	R901036983
	31	32						
T-P	05							
R901140890		0.78 kg	RE 21534					
Sandwich plate	Z1S6 <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="text-align: center;">31</td><td style="text-align: center;">32</td></tr><tr><td style="text-align: center;">B-A</td><td style="text-align: center;">05</td></tr></table> -4X/V	31	32	B-A	05		64 x 44 x 40	R901036983
	31	32						
B-A	05							
R901140895		0.78 kg	RE 21534					
Sandwich plate	Z1S6 <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="text-align: center;">31</td><td style="text-align: center;">32</td></tr><tr><td style="text-align: center;">P</td><td style="text-align: center;">05</td></tr></table> -4X/V SO2	31	32	P	05		64 x 44 x 40	R901036983
	31	32						
P	05							
R901086597		0.76 kg	Side F T G 1/4 RE 21534					
Sandwich plate	Z1S6 <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="text-align: center;">31</td><td style="text-align: center;">32</td></tr><tr><td style="text-align: center;">P</td><td style="text-align: center;">05</td></tr></table> -4X/V SO68	31	32	P	05		64 x 44 x 40	R901036983
	31	32						
P	05							
R901086600		0.76 kg	Side F P G 1/4 RE 21534					
Sandwich plate	Z1S6 <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="text-align: center;">31</td><td style="text-align: center;">32</td></tr><tr><td style="text-align: center;">P</td><td style="text-align: center;">05</td></tr></table> -4X/V SO90	31	32	P	05		64 x 44 x 40	R901036983
	31	32						
P	05							
R901086601		0.74 kg	Side E Side F A B G 1/4 G 1/4 RE 21534					
Sandwich plate	Z1S6 <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="text-align: center;">31</td><td style="text-align: center;">32</td></tr><tr><td style="text-align: center;">C</td><td style="text-align: center;">05</td></tr></table> -4X/V SO68	31	32	C	05		64 x 44 x 40	R901036983
	31	32						
C	05							
R901188060		0.76 kg	Side E A G 1/4 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
Sandwich plate		Z1S6 ³¹ T ³² 05 -4X/V SO115 R901086616		64 x 44 x 40 0.76 kg
	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
Sandwich plate		Z1S6 ³¹ C ³² 05 -4X/V SO119 R901086581		64 x 44 x 40 0.76 kg
	Sandwich plate	Z1S6 ³¹ F ³² 05 -4X/V SO107 R901086586		64 x 44 x 40 0.80 kg
Sandwich plate		Z1S6 ³¹ F ³² 05 -4X/V SO111 R901086587		64 x 44 x 40 0.80 kg

Functional group blocking function

Complementary details on check valves Z2S6 -:

Z2S 6 -6X (see page 36 - 37)

31	Leak-free blocking in channel A and B	= -
<input type="checkbox"/>	Leak-free blocking in channel A	= A
	Leak-free blocking in channel B	= B
32	Cracking pressure	
<input type="checkbox"/>	1.5 bar [21.7 psi]	= 1
	3.0 bar [43.5 psi]	= 2
	6.0 bar [86.0]	= 3
33	Seal material	
<input type="checkbox"/>	NBR seals	= no code
	FKM seals	= V
34	Without locating hole	= no code
<input type="checkbox"/>	With locating hole	= /60
	With locating hole and locating pin ISO 8752-3x8-St	= /62
35	Special version	
<input type="checkbox"/>	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-	
	Insert side B = 1-	= SO49
	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 <input type="text" value="31"/> <input type="text" value="32"/> -6X/ <input type="text" value="33"/> <input type="text" value="34"/> <input type="text" value="35"/>		80 x 44.5 x 40 0.96 kg	RE 21548
Sandwich plate	Z2S6 <input type="text" value="A"/> <input type="text" value="32"/> -6X/ <input type="text" value="33"/> <input type="text" value="34"/> <input type="text" value="35"/>		80 x 44.5 x 40 0.94 kg	RE 21548
Sandwich plate	Z2S6 <input type="text" value="B"/> <input type="text" value="32"/> -6X/ <input type="text" value="33"/> <input type="text" value="34"/> <input type="text" value="35"/>		80 x 44.5 x 40 0.94 kg	RE 21548
Sandwich plate	Z2S6 <input type="text" value="31"/> <input type="text" value="32"/> -6X/ <input type="text" value="33"/> <input type="text" value="34"/> <input type="text" value="SO150"/>		80 x 44.5 x 40 1.02 kg	RE 21548
Sandwich plate	Z2S6 <input type="text" value="A"/> <input type="text" value="32"/> -6X/ <input type="text" value="33"/> <input type="text" value="34"/> <input type="text" value="SO40"/>		80 x 44.5 x 40 0.94 kg	RE 21548
Sandwich plate	Z2S6 <input type="text" value="B"/> <input type="text" value="32"/> -6X/ <input type="text" value="33"/> <input type="text" value="34"/> <input type="text" value="SO40"/>		80 x 44.5 x 40 0.94 kg	RE 21548
Sandwich plate	Z2S6 <input type="text" value="31"/> <input type="text" value="32"/> -6X/ <input type="text" value="33"/> <input type="text" value="34"/> <input type="text" value="SO60"/>		80 x 44.5 x 40 0.94 kg	RE 21548
Sandwich plate	Z2S6 <input type="text" value="A"/> <input type="text" value="32"/> -6X/ <input type="text" value="33"/> <input type="text" value="34"/> <input type="text" value="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 <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 20px; text-align: center;">31</td><td style="width: 20px; text-align: center;">32</td></tr><tr><td style="text-align: center;">B</td><td style="text-align: center;"> </td></tr></table> -6X/ <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 20px; text-align: center;">33</td><td style="width: 20px; text-align: center;">34</td></tr><tr><td style="text-align: center;"> </td><td style="text-align: center;"> </td></tr></table> <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 20px; text-align: center;">35</td></tr><tr><td style="text-align: center;">SO60</td></tr></table>	31	32	B		33	34			35	SO60		80 x 44.5 x 40 0.94 kg	RE 21548
	31	32												
B														
33	34													
35														
SO60														
Sandwich plate	Z2S6 <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 20px; text-align: center;">31</td><td style="width: 20px; text-align: center;">32</td></tr><tr><td style="text-align: center;"> </td><td style="text-align: center;"> </td></tr></table> -6X/ <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 20px; text-align: center;">33</td><td style="width: 20px; text-align: center;">34</td></tr><tr><td style="text-align: center;"> </td><td style="text-align: center;"> </td></tr></table> <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 20px; text-align: center;">35</td></tr><tr><td style="text-align: center;">SO18</td></tr></table>	31	32			33	34			35	SO18		80 x 44.5 x 40 1.02 kg	RE 21548
	31	32												
33	34													
35														
SO18														
Sandwich plate	Z2S6 <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 20px; text-align: center;">31</td><td style="width: 20px; text-align: center;">32</td></tr><tr><td style="text-align: center;">A</td><td style="text-align: center;"> </td></tr></table> -6X/ <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 20px; text-align: center;">33</td><td style="width: 20px; text-align: center;">34</td></tr><tr><td style="text-align: center;"> </td><td style="text-align: center;"> </td></tr></table> <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 20px; text-align: center;">35</td></tr><tr><td style="text-align: center;">SO18</td></tr></table>	31	32	A		33	34			35	SO18		80 x 44.5 x 40 0.94 kg	RE 21548
	31	32												
A														
33	34													
35														
SO18														
Sandwich plate	Z2S6 <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 20px; text-align: center;">31</td><td style="width: 20px; text-align: center;">32</td></tr><tr><td style="text-align: center;">B</td><td style="text-align: center;"> </td></tr></table> -6X/ <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 20px; text-align: center;">33</td><td style="width: 20px; text-align: center;">34</td></tr><tr><td style="text-align: center;"> </td><td style="text-align: center;"> </td></tr></table> <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 20px; text-align: center;">35</td></tr><tr><td style="text-align: center;">SO18</td></tr></table>	31	32	B		33	34			35	SO18		80 x 44.5 x 40 0.94 kg	RE 21548
	31	32												
B														
33	34													
35														
SO18														

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	
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 Fitting of the sandwich plate: 2/2 directional seat valve	HSZ 06A 484-3X/AS1N-BS1NG24 ^{35.1} <input type="checkbox"/> K4M00		101 x 44 x 50	R901034814 Valve on side E and F RE 18136-20
	KSDER1NA/HCG24 ^{35.1} <input type="checkbox"/> K4V		2.4 kg	
Sandwich plate Fitting of the sandwich plate: 2/2 directional seat valve	HSZ 06A 484-3X/AS1NG24 ^{35.1} <input type="checkbox"/> K4M00		101 x 44 x 50	R901034814 Valve on side E RE 18136-20
	KSDER1NA/HCG24 ^{35.1} <input type="checkbox"/> K4V		2.0 kg	
Sandwich plate Fitting of the sandwich plate: 2/2 directional seat valve	HSZ 06A 484-3X/BS1NG24 ^{35.1} <input type="checkbox"/> K4M00		101 x 44 x 50	R901034814 Valve on side F RE 18136-20
	KSDER1NA/HCG24 ^{35.1} <input type="checkbox"/> K4V		2.0 kg	
Sandwich plate Fitting of the sandwich plate: 2/2 directional seat valve	HSZ 06A 484-3X/AS1P-BS1PG24 ^{35.1} <input type="checkbox"/> K4M00		101 x 44 x 50	R901034814 Valve on side E and F RE 18136-20
	KSDER1PA/HCG24 ^{35.1} <input type="checkbox"/> K4V		2.4 kg	
Sandwich plate Fitting of the sandwich plate: 2/2 directional seat valve	HSZ 06A 484-3X/AS1PG24 ^{35.1} <input type="checkbox"/> K4M00		101 x 44 x 50	R901034814 Valve on side E RE 18136-20
	KSDER1PA/HCG24 ^{35.1} <input type="checkbox"/> K4V		2.0 kg	
Sandwich plate Fitting of the sandwich plate: 2/2 directional seat valve	HSZ 06A 484-3X/BS1PG24 ^{35.1} <input type="checkbox"/> K4M00		101 x 44 x 50	R901034814 Valve on side F RE 18136-20
	KSDERPA/HCG24 ^{35.1} <input type="checkbox"/> K4V		2.0 kg	

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

Order example

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

HSZ 06A 484-3X/ ^{35.1} AS1N-BS1NG24 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 Fitting of the sandwich plate: SITZVENTIL OD.15.05.36.3A.S0.000 SPULE OD.02.17.01.30. <input type="checkbox"/> .000	HSZ 06A 490-3X/AB-A05 <input type="checkbox"/> K4M00		105 x 44 x 70	R901094055 Valve on side E and F RE 90005-03	
					3.1 kg
Sandwich plate Fitting of the sandwich plate: SITZVENTIL OD.15.05.36.3A.S0.000 SPULE OD.02.17.01.30. <input type="checkbox"/> .000	HSZ 06A 490-3X/A-A05 <input type="checkbox"/> K4M00		105 x 44 x 70	R901094055 Valve on side E RE 90005-03	
					2.7 kg
Sandwich plate Fitting of the sandwich plate: SITZVENTIL OD.15.05.36.3A.S0.000 SPULE OD.02.17.01.30. <input type="checkbox"/> .000	HSZ 06A 490-3X/B-A05 <input type="checkbox"/> K4M00		105 x 44 x 70	R901094055 Valve on side F RE 90005-03	
					2.7 kg
Sandwich plate Fitting of the sandwich plate: SITZVENTIL OD.15.06.36.1A.S0.000 SPULE OD.02.17.01.30. <input type="checkbox"/> .000	HSZ 06A 490-3X/AB-A06 <input type="checkbox"/> K4M00		105 x 44 x 70	R901094055 Valve on side E and F RE 90005-03	
					3.1 kg
Sandwich plate Fitting of the sandwich plate: SITZVENTIL OD.15.06.36.1A.S0.000 SPULE OD.02.17.01.30. <input type="checkbox"/> .000	HSZ 06A 490-3X/A-A06 <input type="checkbox"/> K4M00		105 x 44 x 70	R901094055 Valve on side E RE 90005-03	
					2.7 kg
Sandwich plate Fitting of the sandwich plate: SITZVENTIL OD.15.06.36.1A.S0.000 SPULE OD.02.17.01.30. <input type="checkbox"/> .000	HSZ 06A 490-3X/B-A06 <input type="checkbox"/> K4M00		105 x 44 x 70	R901094055 Valve on side F RE 90005-03	
					2.7 kg

$q_{V \max}$ 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 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 Fitting of the sandwich plate: SITZVENTIL OD.15.31.36.3A.S0.000 SPULE OD.02.17.01.30. <input type="checkbox"/> .000	HSZ 06A 490-3X/AB-B05 <input type="checkbox"/> K4M00		105 x 44 x 70	R901094055 Valve on side E and F RE 90005-03	
					3.1 kg
Sandwich plate Fitting of the sandwich plate: SITZVENTIL OD.15.31.36.3A.S0.000 SPULE OD.02.17.01.30. <input type="checkbox"/> 000	HSZ 06A 490-3X/A-B05 <input type="checkbox"/> K4M00		105 x 44 x 70	R901094055 Valve on side E RE 90005-03	
					2.7 kg
Sandwich plate Fitting of the sandwich plate: SITZVENTIL OD.15.31.36.3A.S0.000 SPULE OD.02.17.01.30. <input type="checkbox"/> 000	HSZ 06A 490-3X/B-B05 <input type="checkbox"/> K4M00		105 x 44 x 70	R901094055 Valve on side F RE 90005-03	
					2.7 kg
Sandwich plate Fitting of the sandwich plate: SITZVENTIL OD.15.32.36.1A.S0.000 SPULE OD.02.17.01.30. <input type="checkbox"/> 000	HSZ 06A 490-3X/AB-B06 <input type="checkbox"/> K4M00		105 x 44 x 70	R901094055 Valve on side E and F RE 90005-03	
					3.1 kg
Sandwich plate Fitting of the sandwich plate: SITZVENTIL OD.15.32.36.1A.S0.000 SPULE OD.02.17.01.30. <input type="checkbox"/> 000	HSZ 06A 490-3X/A-B06 <input type="checkbox"/> K4M00		105 x 44 x 70	R901094055 Valve on side E RE 90005-03	
					2.7 kg
Sandwich plate Fitting of the sandwich plate: SITZVENTIL OD.15.32.36.1A.S0.000 SPULE OD.02.17.01.30. <input type="checkbox"/> 000	HSZ 06A 490-3X/B-B06 <input type="checkbox"/> K4M00		105 x 44 x 70	R901094055 Valve on side F RE 90005-03	
					2.7 kg

Order example

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

HSZ 06A 490-3X/ **A**-B05 K4M00

Effective in channel A

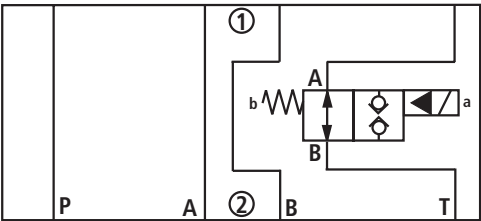
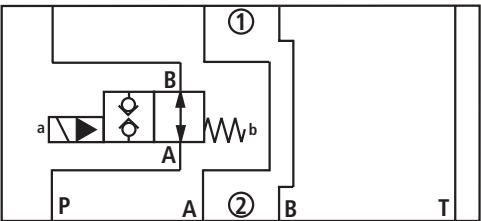
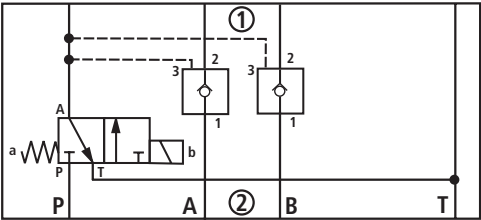
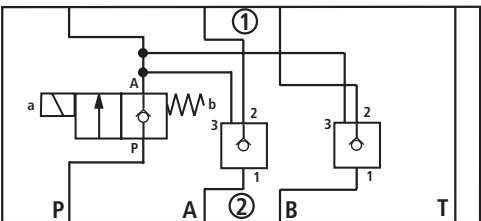
Blocking function, electrically switchable (① = component side, ② = plate side)

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 Amend type designation according to page 19!	M-Z4SE 6 A1X/C ²⁶ K4		100 x 45 x 40 1.5 kg	R900270194
Sandwich plate Amend type designation according to page 19!	M-Z4SE 6 B1X/C ²⁶ K4		100 x 45 x 40 1.5 kg	R900270194
Sandwich plate Amend type designation according to page 21!	M-Z4SE 6 E1X/C ²⁶ K4		100 x 45 x 40 1.5 kg	R900270194

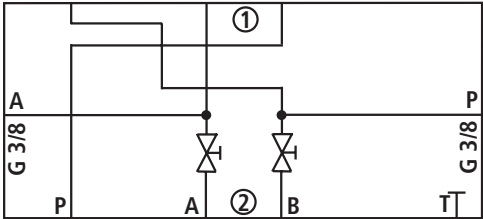
Blocking function, electrically switchable (① = component side, ② = plate side)

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 R901177164 Blocking function discharge →		150 x 44 x 70	R901028338 RE 90005-03
	Blocking function supply →			
Sandwich plate	HSZ 06 A402-31/ D00-A06G24K4M00 R901028324 Blocking function discharge →		150 x 44 x 70	R901028338 RE 90005-03
	Blocking function supply →			
Sandwich plate	HSZ 06 A402-31/ D00-B05G24K4M00 R901238212 Blocking function discharge →		150 x 44 x 70	R901028338 RE 90005-03
	Blocking function supply →			

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-B06G24K4M00		150 x 44 x 70	R901028338
	R901238214		3.3 kg	RE 90005-03
	Blocking function discharge →			
	Blocking function supply →			
Sandwich plate	HSZ 06-26787-AA/ G24N9K4M00-403		160 x 50 x 100	R900243054
	R900976030		6.0 kg	Valve on side F RE 18136-04
Sandwich plate	HSZ 06-38019-AA/ G243AK4M00		170 x 70 x 130	R901112789
	R901109224		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 – **3X/** 15 16 2 3

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

<p>14</p> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 0 auto;"></div>	<p>Seal material ⚠ Attention! Observe compatibility of seals with hydraulic fluid used!</p>	<p>NBR seals FKM seals (other seals upon request)</p>	<p>= no code = V</p>
<p>15</p> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 0 auto;"></div>	<p>Adjustment element at the pressure relief valve Type DBD..6...:</p>	<p>Setscrew with hexagon and protective cap Rotary knob Lockable rotary knob</p>	<p>= S ¹⁾ = H ¹⁾ Please observe the installa- ¹⁾ = A tion dimensions!</p>
<p>16</p> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 0 auto;"></div>	<p>Setting pressure at the pressure relief valve Type DBD..6...: ⚠ Attention! Spelling () with complete type!</p>	<p>up to 25 bar up to 50 bar up to 100 bar up to 200 bar up to 315 bar</p>	<p>= 25 (025) = 50 (050) = 100 = 200 = 315</p>
<p>37</p> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 0 auto;"></div>	<p>Adjustment element at the pressure reducing valve Type DR10K... :</p>	<p>Rotary knob Bushing with hexagon and protective cap Lockable rotary knob with scale Rotary knob with scale</p>	<p>= 4 = 5 = 6 = 7</p>
<p>38</p> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 0 auto;"></div>	<p>Setting pressure at the pressure reducing valve Type DR10K... : ⚠ Attention! Spelling () with complete type!</p>	<p>Secondary pressure up to 50 bar up to 100 bar up to 200 bar up to 315 bar</p>	<p>= 50 (050) = 100 = 200 = 315</p>

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 100-3X/ <input type="checkbox"/> ¹⁵ <input type="checkbox"/> ¹⁶ M00			120 x 44 x 50	R900262303
	Fitting of the sandwich plate: Pressure relief valve, direct operated DBD <input type="checkbox"/> ¹⁵ 6K1X/ <input type="checkbox"/> ¹⁶ <input type="checkbox"/> ¹⁴			
Sandwich plate HSZ 06A 101-3X/ <input type="checkbox"/> ¹⁵ <input type="checkbox"/> ¹⁶ M00			120 x 44 x 50	R900262304
	Fitting of the sandwich plate: Pressure relief valve, direct operated DBD <input type="checkbox"/> ¹⁵ 6K1X/ <input type="checkbox"/> ¹⁶ <input type="checkbox"/> ¹⁴			
Sandwich plate HSZ 06A 106-3X/ <input type="checkbox"/> ¹⁵ <input type="checkbox"/> ¹⁶ M00			120 x 44 x 50	R900262265
	Fitting of the sandwich plate: Pressure relief valve, direct operated DBD <input type="checkbox"/> ¹⁵ 6K1X/ <input type="checkbox"/> ¹⁶ <input type="checkbox"/> ¹⁴			
Sandwich plate HSZ 06A 107-3X/ <input type="checkbox"/> ¹⁵ <input type="checkbox"/> ¹⁶ M00			120 x 44 x 50	R900262266
	Fitting of the sandwich plate: Pressure relief valve, direct operated DBD <input type="checkbox"/> ¹⁵ 6K1X/ <input type="checkbox"/> ¹⁶ <input type="checkbox"/> ¹⁴			
Sandwich plate HSZ 06A 102-3X/ <input type="checkbox"/> ¹⁵ <input type="checkbox"/> ¹⁶ M00			105 x 44 x 70	R900262259
	Fitting of the sandwich plate: Pressure relief valve, direct operated DBD <input type="checkbox"/> ¹⁵ 6K1X/ <input type="checkbox"/> ¹⁶ <input type="checkbox"/> 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	
Sandwich plate	HSZ 06A 118-3X/ <input type="checkbox"/> ¹⁵ <input type="checkbox"/> ¹⁶ M00		105 x 44 x 70	R900265626
Fitting of the sandwich plate: Pressure relief valve, direct operated	DBD <input type="checkbox"/> ¹⁵ 6K1X/ <input type="checkbox"/> ¹⁶ <input type="checkbox"/> ¹⁴		2.3 kg	RE 25402 DBD on side E
Sandwich plate with R ring plate	HSZ 06A 117-3X/ <input type="checkbox"/> ¹⁵ <input type="checkbox"/> ¹⁶ M01		120 x 44 x 50	R900262260
Fitting of the sandwich plate: Pressure relief valve, direct operated	DBD <input type="checkbox"/> ¹⁵ 6K1X/ <input type="checkbox"/> ¹⁶ <input type="checkbox"/> ¹⁴		1.9 kg Side F T G 1/4	RE 25402 DBD on side E
Sandwich plate	HSZ 06A 114-3X/ <input type="checkbox"/> ¹⁵ <input type="checkbox"/> ¹⁶ M01		120 x 44 x 50	R900262261
Fitting of the sandwich plate: Pressure relief valve, direct operated	DBD <input type="checkbox"/> ¹⁵ 6K1X/ <input type="checkbox"/> ¹⁶ <input type="checkbox"/> 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 M 00

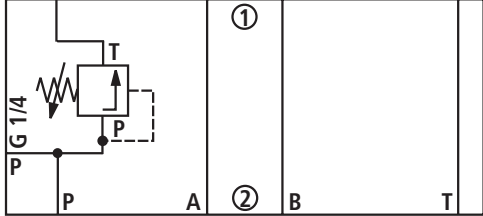
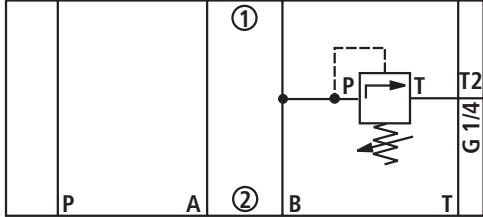
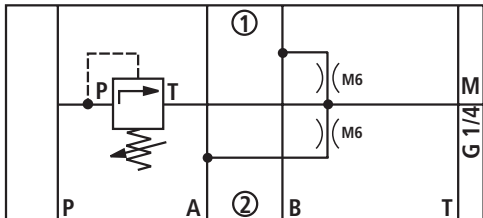
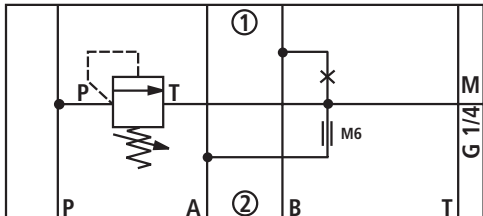
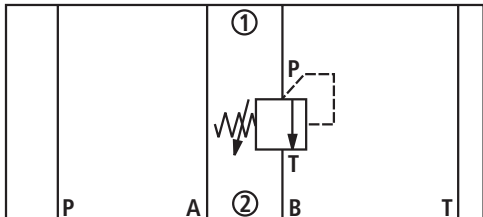
Sandwich plate	HSZ 06A 105-3X/A <input type="checkbox"/> ¹⁵ <input type="checkbox"/> ¹⁶ -B <input type="checkbox"/> ¹⁵ <input type="checkbox"/> ¹⁶ M00		150 x 44 x 50	R900262262
Fitting of the sandwich plate: Pressure relief valve, direct operated	DBD <input type="checkbox"/> ¹⁵ 6K1X/ <input type="checkbox"/> ¹⁶ <input type="checkbox"/> ¹⁴		2.5 kg	RE 25402 DBD on side E and F
Sandwich plate	HSZ 06A 108-3X/A <input type="checkbox"/> ¹⁵ <input type="checkbox"/> ¹⁶ -B <input type="checkbox"/> ¹⁵ <input type="checkbox"/> ¹⁶ M00		150 x 44 x 70	R900262255
Fitting of the sandwich plate: Pressure relief valve, direct operated	DBD <input type="checkbox"/> ¹⁵ 6K1X/ <input type="checkbox"/> ¹⁶ <input type="checkbox"/> 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 M 00

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 <input type="checkbox"/> ¹⁶ <input type="checkbox"/> M01		120 x 44 x 50	R900266371	
			1.9 kg		RE 25402 DBD on side E
Sandwich plate	HSZ 06A 142-3X/ ¹⁵ <input type="checkbox"/> ¹⁶ <input type="checkbox"/> 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 Fitting of the sandwich plate: Pressure reducing valve, pilot operated	HSZ 06A 550-3X/ <input type="checkbox"/> ³⁷ - <input type="checkbox"/> ³⁸ M01		120 x 44 x 90	R900262760 RE 26850 DR on side E
	DR10K <input type="checkbox"/> ³⁷ - 3X/ <input type="checkbox"/> ³⁸ YM		3.6 kg	
			Side E Side F Y P G 1/4 G 1/4	

Order example

 For complete device: HSZ 06A 550-3X/ ³⁷ - ³⁸ ² ³ M 01

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		130 x 44 x 60	R901110332 RE 18111-03 KRD on side E
	R901110168		2.5 kg	
	with pressure valve * KRD2F2AB/LV			
Sandwich plate	HSZ 06 A492-3X/ KRD2L2AB/LVM01		130 x 44 x 60	R901110332 RE 18111-03 KRD on side E
	R901138734		2.5 kg	
	with pressure valve * KRD2L2AB/LV			

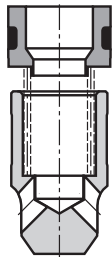
* Other pressure stages upon request

Functional group combination pressure and blocking function

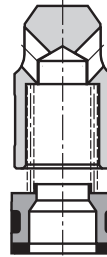
Example lowering brake function: **HSZ 06 A** 1 – **3X/L** 39 45 2 3

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 = **S**
 Rotary knob ¹⁾ = **H** ¹⁾ Please observe the installation dimensions!
 Lockable rotary knob ¹⁾ = **A**
- 16** **Setting pressure** at the pressure relief valve
 Type DBD..6...: up to 25 bar = **25 (025)**
 up to 50 bar = **50 (050)**
 up to 100 bar = **100**
⚠ Attention! up to 200 bar = **200**
 Spelling () up to 315 bar = **315**
 with complete type!
- 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! NBR seals = **no code**
 Observe compatibility of seals with hydraulic fluid used! FKM seals = **V**
 (other seals upon request)
- 11** **Cracking pressure** at the check valve
 Type M-SR8...: without spring = **00**
 (installation kit) 0.2 bar = **02**
 1.0 bar = **05**
 1.5 bar = **15**
 3.0 bar = **30**
 5.0 bar = **50**
- 44** **Control open ratio** at the lowering brake valve *:
 Control open ratio 4.5 :1 = **G** (Standard) – for systems with variable load conditions and structure-related fluctuations
 Control open ratio 10 :1 = **H** – For systems with relatively constant load
 (other control open ratios upon request)
- 39** **Setting range** *
 70 to 175 bar (setting 140) = **K**
 140 to 350 bar (setting 210) = **J**
- 45** **Control open ratio** *
 4.5 :1 = **4**
 10 :1 = **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 Fitting of the sandwich plate: Pressure relief valve, direct operated RUECKSCHLAGVENTIL D7,8-05BAR/ . Z1S6P	HSZ 06A 216-3X/ <input type="checkbox"/> ¹⁵ <input type="checkbox"/> ¹⁶ M00 DBD <input type="checkbox"/> ¹⁵ 6K1X/ <input type="checkbox"/> ¹⁶ <input type="checkbox"/> ¹⁴		120 x 44 x 60 2.6 kg	R900262305 RE 25402 DBD on side E	
Sandwich plate with R ring plate Fitting of the sandwich plate: Pressure relief valve, direct operated RUECKSCHLAGVENTIL D7,8-05BAR/ . Z1S6P	HSZ 06A 218-3X/ <input type="checkbox"/> ¹⁵ <input type="checkbox"/> ¹⁶ M00 DBD <input type="checkbox"/> ¹⁵ 6K1X/ <input type="checkbox"/> ¹⁶ <input type="checkbox"/> ¹⁴		120 x 44 x 60 2.6 kg	R900262307 RE 25402 DBD on side F	
Order example For complete device:	HSZ 06A 216-3X/ <input type="checkbox"/> ¹⁵ <input type="checkbox"/> ¹⁶ <input type="checkbox"/> ² <input type="checkbox"/> ³ S <input type="checkbox"/> 050 M <input type="checkbox"/> 00				
For complete device:	HSZ 06A 218-3X/ <input type="checkbox"/> ¹⁵ <input type="checkbox"/> ¹⁶ <input type="checkbox"/> ² <input type="checkbox"/> ³ S <input type="checkbox"/> 050 M <input type="checkbox"/> 00				
Sandwich plate with R ring plate Fitting of the sandwich plate: Pressure relief valve, direct operated RUECKSCHLAGVENTIL D7,8-05BAR/ . Z1S6P	HSZ 06A 217-3X/A <input type="checkbox"/> ¹⁵ <input type="checkbox"/> ¹⁶ -B <input type="checkbox"/> ¹⁵ <input type="checkbox"/> ¹⁶ M00 DBD <input type="checkbox"/> ¹⁵ 6K1X/ <input type="checkbox"/> ¹⁶ <input type="checkbox"/> ¹⁴		175 x 44 x 60 3.8 kg	R900262306 RE 25402 DBD on side E and F	

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

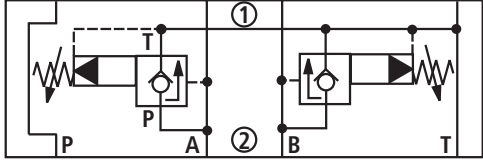
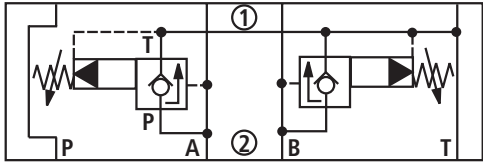
Secured channel

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 06A 222-3X/ <input type="checkbox"/> ¹⁵ <input type="checkbox"/> ¹⁶ M01		130 x 44 x 80	R900262764	
	Fitting of the sandwich plate: Pressure relief valve, direct operated DBD <input type="checkbox"/> ¹⁵ 6K1X/ <input type="checkbox"/> ¹⁶ <input type="checkbox"/> ¹⁴ Check valve (installation kit) M-SR8KE05-1X/ <input type="checkbox"/> ¹⁴		3.4 kg Side E Side F A B G 1/4 G 1/4		
Order example For complete device: HSZ 06A 222-3X/ <input type="checkbox"/> ¹⁵ <input type="checkbox"/> ¹⁶ <input type="checkbox"/> ² <input type="checkbox"/> ³ S 200 M 01					
Sandwich plate	HSZ 06A 214-3X/A <input type="checkbox"/> ¹⁵ <input type="checkbox"/> ¹⁶ -B <input type="checkbox"/> ¹⁵ <input type="checkbox"/> ¹⁶ M01		210 x 44 x 80	R900262256	
	Fitting of the sandwich plate: Pressure relief valve, direct operated DBD <input type="checkbox"/> ¹⁵ 6K1X/ <input type="checkbox"/> ¹⁶ <input type="checkbox"/> ¹⁴ Check valve (installation kit) M-SR8KE05-1X/ <input type="checkbox"/> ¹⁴		5.6 kg Side E Side F A B G 1/4 G 1/4		
Order example For complete device: HSZ 06A 214-3X/A <input type="checkbox"/> ¹⁵ <input type="checkbox"/> ¹⁶ -B <input type="checkbox"/> ¹⁵ <input type="checkbox"/> ¹⁶ S 315 M 01					
Sandwich plate	HSZ 06A 207-3X/A <input type="checkbox"/> ¹⁵ <input type="checkbox"/> ¹⁶ -B <input type="checkbox"/> ¹⁵ <input type="checkbox"/> ¹⁶ M00		160 x 44 x 80	R900262257	
	Fitting of the sandwich plate: Pressure relief valve, direct operated DBD <input type="checkbox"/> ¹⁵ 6K1X/ <input type="checkbox"/> ¹⁶ <input type="checkbox"/> ¹⁴ Check valve (installation kit) M-SR8KE05-1X/ <input type="checkbox"/> ¹⁴		4.3 kg Side E Side F A B G 1/4 G 1/4		
Order example For complete device: HSZ 06A 207-3X/A <input type="checkbox"/> ¹⁵ <input type="checkbox"/> ¹⁶ -B <input type="checkbox"/> ¹⁵ <input type="checkbox"/> ¹⁶ S 315 M 01					
Sandwich plate	HSZ 06A 421-3X/A <input type="checkbox"/> ¹⁵ <input type="checkbox"/> ¹⁶ -B <input type="checkbox"/> ¹⁵ <input type="checkbox"/> ¹⁶ M01		210 x 44 x 80	R900277186	
	Fitting of the sandwich plate: Pressure relief valve, direct operated DBD <input type="checkbox"/> ¹⁵ 6K1X/ <input type="checkbox"/> ¹⁶ <input type="checkbox"/> ¹⁴ Check valve (installation kit) M-SR8KE05-1X/ <input type="checkbox"/> ¹⁴		5.3 kg Side E Side F A B G 3/8 G 3/8		
Order example For complete device: HSZ 06A 421-3X/A <input type="checkbox"/> ¹⁵ <input type="checkbox"/> ¹⁶ -B <input type="checkbox"/> ¹⁵ <input type="checkbox"/> ¹⁶ S 315 M 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	R900265894	
	R901221737		1.1 kg		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	R900265894	
	R901226642		1.1 kg		RE 64602
without fitting of the sandwich plate					

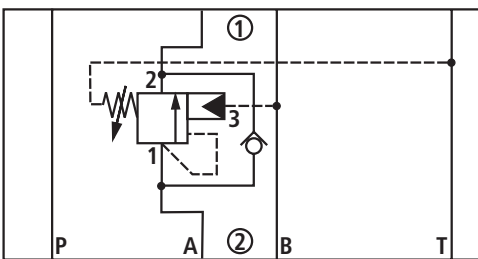
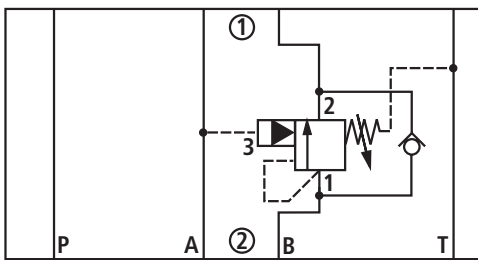
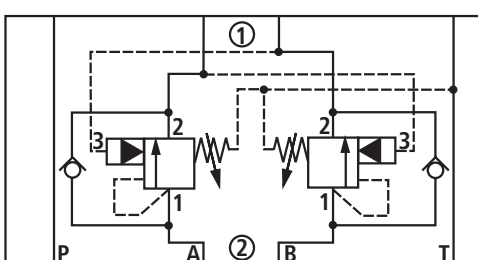
* With vibratory ground main seat

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	
Sandwich plate	HSZ 06A 430-1X/L <input type="checkbox"/> ³⁹ <input type="checkbox"/> ⁴⁵ M00		140 x 44 x 50	R900239770
Fitting of the sandwich plate: SENKBREMSVENTIL CBC <input type="checkbox"/> ⁴⁴ -L <input type="checkbox"/> ³⁹ N			2.2 kg	Valve on side E
Sandwich plate	HSZ 06A 431-1X/L <input type="checkbox"/> ³⁹ <input type="checkbox"/> ⁴⁵ M00		140 x 44 x 50	R900279856
Fitting of the sandwich plate: SENKBREMSVENTIL CBC <input type="checkbox"/> ⁴⁴ -L <input type="checkbox"/> ³⁹ N			2.2 kg	Valve on side F
Order example				
For complete device with one lowering brake valve: HSZ 06A 430-1X/L <input type="checkbox"/> ³⁹ <input type="checkbox"/> ⁴⁵ <input type="checkbox"/> ² <input type="checkbox"/> ³ M00				
Sandwich plate	HSZ 06A 426-1X/AL <input type="checkbox"/> ³⁹ <input type="checkbox"/> ⁴⁵ -BL <input type="checkbox"/> ³⁹ <input type="checkbox"/> ⁴⁵ M00		140 x 44 x 50	R900278330
Fitting of the sandwich plate: SENKBREMSVENTIL CBC <input type="checkbox"/> ⁴⁴ -L <input type="checkbox"/> 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/ <input type="checkbox"/> ³⁹ <input type="checkbox"/> ⁴⁵ AL <input type="checkbox"/> ³⁹ <input type="checkbox"/> ⁴⁵ J 10 -BL <input type="checkbox"/> ³⁹ <input type="checkbox"/> ⁴⁵ J 10 <input type="checkbox"/> ² <input type="checkbox"/> ³ M00				
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	R901227589 Lowering brake valve upon request
	R901227668		1.5 kg	
Sandwich plate without fitting of the sandwich plate	HSZ 06A 663-4X/M00		105 x 44 x 40	R901227588 Lowering brake valve upon request
	R901227680		1.5 kg	
Sandwich plate without fitting of the sandwich plate	HSZ 06A 661-4X/M00		160 x 44 x 40	R901226805 Lowering brake valve upon request
	R901227657		2.3 kg	

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** – **3X/M**

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

17 <input type="text"/>	Adjustment element at the 2-way flow control valve Type 2FRM6...:	Lockable rotary knob with scale Rotary knob with scale	= 3 = 7
20 <input type="text"/>	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 <input type="text"/>	Flow (progressive) at the 2-way flow control valve Type 2FRM6...: ⚠ Attention! Spelling () with complete type!	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)
22 <input type="text"/>	Flow control valve	With check valve Without check valve	= R = M
27 <input type="text"/>	Adjustment element at the throttle valve ⚠ Attention! With Type Z2FG6...-4X/... identical adjustment element on sides A and B	Hexagon socket head cap screw with lock nut protective cap Lockable rotary knob with scale Spindle with internal hexagon and scale Rotary knob with scale	= 2 = 3 = 5 = 7
28 <input type="text"/>	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	
	Material no.		Weight	and more information	
		Size of the ports			
Sandwich plate with R ring plate	Z2FG6A ²⁷ <input type="checkbox"/> -4X/ ²⁸ <input type="checkbox"/> 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 <input type="checkbox"/> -4X/ ²⁸ <input type="checkbox"/> 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 <input type="checkbox"/> -4X/ ²⁸ <input type="checkbox"/> 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 <input type="checkbox"/> 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 <input type="checkbox"/> B ⁵¹ <input type="checkbox"/> P ⁵¹ <input type="checkbox"/> T ⁵¹ <input type="checkbox"/> 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 <input type="checkbox"/> M8x1-DIN906					
Material no. see page 92					

Order example

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

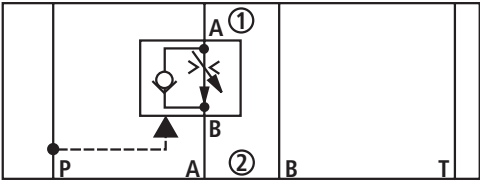
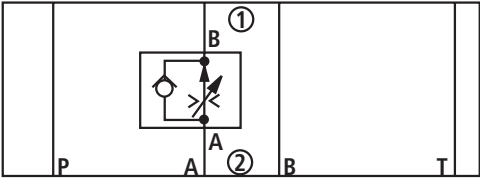
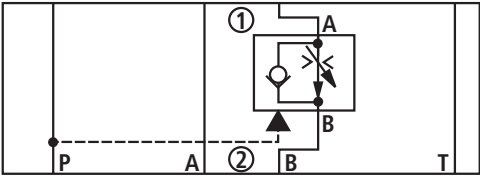
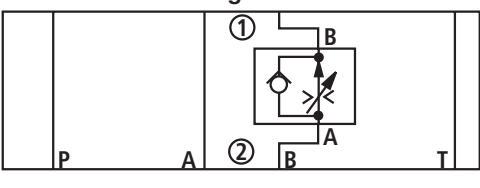
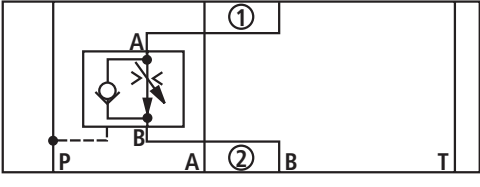
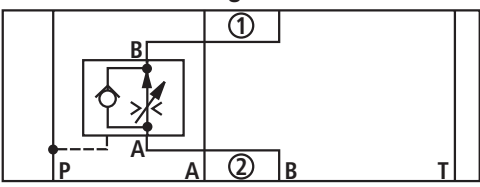
HSZ 06A 085-3X/ A⁵¹08 B⁵¹08 M²00³

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	R901120319 RE 90005-03
	R901244683		1.8 kg	
Sandwich plate	HSZ 06-A519-4X/ DV04M00		85 x 44 x 70	R901123599 Internal thread M8 RE 90005-03
	R901149085		1.7 kg	
Sandwich plate	HSZ 06-A525-4X/ DV04M00		90 x 44 x 60	R901130409 Internal thread M8 RE 90005-03
	R901158986		1.8 kg	
Sandwich plate	HSZ 06-A589-4X/ DV03M00		90 x 44 x 60	R901129876 Internal thread M8 RE 90005-03
	R901234559		1.7 kg	
Sandwich plate	HSZ 06-A498-3X/ DV03M00		80 x 44 x 50	R901121122 RE 90005-03
	R901244682		1.6 kg	
Sandwich plate with R ring plate	HSZ 06-A402-3X/ D00-DV03M00		150 x 44 x 70	R901028338 RE 90005-03
	R901239252		2.9 kg	
Sandwich plate	HSZ 06-A490-3X/ A-DV03M00		105 x 44 x 70	R901094055 RE 90005-03
	R901265680		2.7 kg	
Sandwich plate	HSZ 06-A490-3X/ B-DV03M00		105 x 44 x 70	R901094055 RE 90005-03
	R901265676		2.7 kg	
Sandwich plate	HSZ 06-A490-3X/ AB-DV03M00		105 x 44 x 70	R901094055 RE 90005-03
	R901265675		2.7 kg	

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 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> M00 20 17 21 22	Supply control  Discharge control 	70 x 44 x 70 2.8 kg	R900262247 RE 28163 2 FRM on side E
	Fitting of the sandwich plate: 2-way flow control valve 2FRM6 <input type="checkbox"/> <input type="checkbox"/> 6-3X/ <input type="checkbox"/> <input type="checkbox"/> V 20 17 21 22			
Sandwich plate with R ring plate	HSZ 06A 152-3X/M <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> M00 20 17 21 22	Supply control  Discharge control 	70 x 44 x 70 2.8 kg	R900262248 RE 28163 2 FRM on side F
	Fitting of the sandwich plate: 2-way flow control valve 2FRM6 <input type="checkbox"/> <input type="checkbox"/> 6-3X/ <input type="checkbox"/> <input type="checkbox"/> V 20 17 21 22			
Sandwich plate with R ring plate	HSZ 06A 163-3X/M <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> M00 20 17 21 22	Supply control  Discharge control 	70 x 44 x 70 2.8 kg	R900264671 RE 28163 2 FRM on side E
	Fitting of the sandwich plate: 2-way flow control valve 2FRM6 <input type="checkbox"/> <input type="checkbox"/> 6-3X/ <input type="checkbox"/> <input type="checkbox"/> V 20 17 21 22			

(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

 3 Q03.0 M M 00

 20 17 21 22 2 3

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 <input type="checkbox"/> <input type="checkbox"/> M00		70 x 44 x 70	R900262249	
			2.8 kg		
Fitting of the sandwich plate: 2-way flow control valve 2FRM6B <input type="checkbox"/> 6-3X/ <input type="checkbox"/> 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 <input type="checkbox"/> <input type="checkbox"/> M00		70 x 44 x 70	R900262250	
			2.8 kg		
Fitting of the sandwich plate: 2-way flow control valve 2FRM6B <input type="checkbox"/> 6-3X/ <input type="checkbox"/> 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 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Q03.0 <input type="checkbox"/> M <input type="checkbox"/> 00					
Sandwich plate with R ring plate	HSZ 06A 154-3X/AM <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> -BM <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> M00	<p style="text-align: center;">Supply control</p> <p style="text-align: center;">Discharge control</p>	70 x 44 x 70	R900262244	
			4.1 kg		
Fitting of the sandwich plate: 2-way flow control valve 2FRM6B <input type="checkbox"/> 6-3X/ <input type="checkbox"/> <input type="checkbox"/> 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/ A M <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Q06.0 R <input type="checkbox"/> -B M <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Q03.0 R <input type="checkbox"/> M <input type="checkbox"/> 00					
↙ Controlled channel ↘					

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


Example: HSZ 06 A – 3X/ – G24K4

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

21.2 <input type="text"/>	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 = 32Q	(06) (32)
	⚠ Attention! Spelling () with complete type!			
42 <input type="text"/>	Blocking function at the 2/2-directional seat valve:	Blocking on one side Blocking on both sides		= A = B
43 <input type="text"/>	Spool position at the 2/2-directional seat valve:	De-energized closed De-energized open		= 05 = 06
22 <input type="text"/>	Flow control valve	With check valve Without check valve		= R = M
41 <input type="text"/>	Flow control Creep speed:	With orifice With throttle With flow controller cartridge		= D = FGM = FRM
17 <input type="text"/>	Adjustment element at the 2-way flow control valve Type 2FRM6...:	Lockable rotary knob with scale Rotary knob with scale		= 3 = 7
20 <input type="text"/>	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 <input type="text"/>	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 = 0.6Q = 1.5Q = 3Q = 6Q = 10Q = 16Q = 25Q = 32Q	(Q00.2) (Q00.6) (Q01.5) (Q03.0) (Q06.0) (Q10.0) (Q16.0) (Q25.0) (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°.

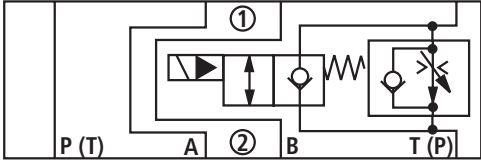
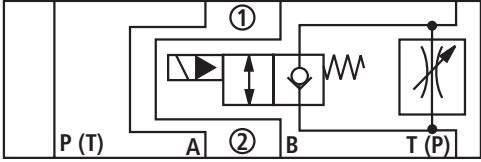
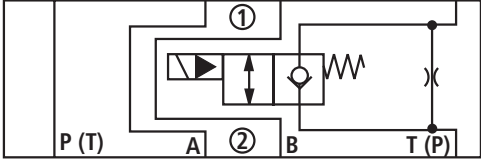
Closing of the pressure compensator (with attached flow control valve) is only effective with supply control.

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

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 400-3X/FRM ^{21.2} <input type="checkbox"/> -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		
	2-way flow control valve		2FRM6K2-1X/ ^{21.2} <input type="checkbox"/> RV		
Throttle valve	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				
			FGM6K2-1X/1QV		
Throttle valve	HSZ 06A 400-3X/D ⁵¹ <input type="checkbox"/> -A05G24K4M00		3.6 kg	RN 115.06	
	Fitting of the sandwich plate: SITZVENTIL OD.15.05.18.3A.S0.000 SPULE OD.02.17.01.30.OC.000				
			DUESE ⁵¹ <input type="checkbox"/> M8x1-DIN906		
Material no. see page 92					
Sandwich plate with R ring plate	HSZ 06A 401-3X/FRM ^{21.2} <input type="checkbox"/> -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		
	2-way flow control valve		2FRM6K2-1X/ ^{21.2} <input type="checkbox"/> RV		
Throttle valve	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				
			FGM6K2-1X/1QV		
Throttle valve	HSZ 06A 401-3X/D ⁵¹ <input type="checkbox"/> -A05G24K4M00		3.6 kg	RN 115.06	
	Fitting of the sandwich plate: SITZVENTIL OD.15.05.18.3A.S0.000 SPULE OD.02.17.01.30.OC.000				
			DUESE ⁵¹ <input type="checkbox"/> M8x1-DIN906		
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} <input type="checkbox"/> -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} <input type="checkbox"/> 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		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 <input type="checkbox"/> M8x1-DIN906 Material no. see page 92	HSZ 06A 402-3X/D ⁵¹ <input type="checkbox"/> -A05G24K4M00			RN 115.06

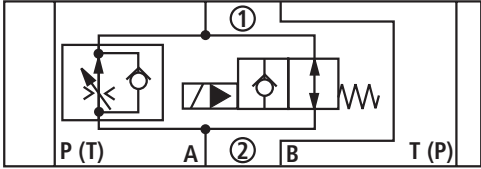
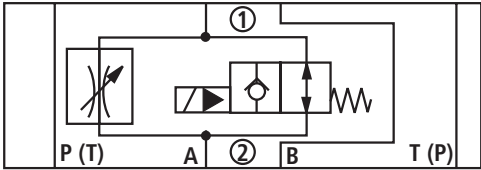
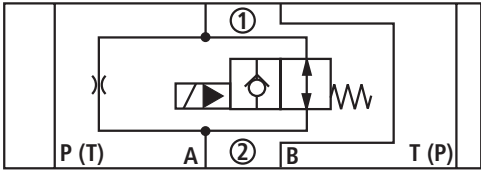
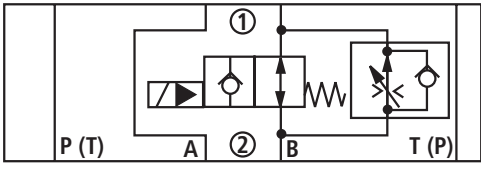
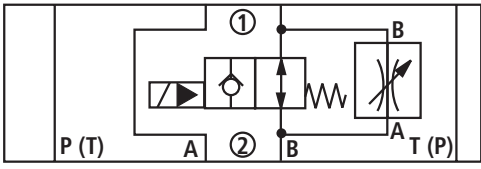
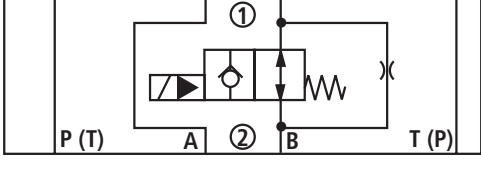
Order examples, see page 68

Rapid motion - creep speed function, normally closed (blocking on both sides, 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 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 Throttle valve FGM6K2-1X/1QV		3.7 kg	Valve on side F R900267396 Valve on side E
Sandwich plate with R ring plate	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 Throttle valve FGM6K2-1X/1QV		3.7 kg	Valve on side E R900267396 Valve on side F
Sandwich plate with R ring plate	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)

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 400-3X/FRM ^{21.2} <input type="checkbox"/> -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		
	2-way flow control valve		2FRM6K2-1X/ ^{21.2} <input type="checkbox"/> RV		
Throttle valve	HSZ 06A 400-3X/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 400-3X/D ⁵¹ <input type="checkbox"/> -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 <input type="checkbox"/> M8x1-DIN906		
Material no. see page 92					
Sandwich plate with R ring plate	HSZ 06A 401-3X/FRM ^{21.2} <input type="checkbox"/> -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		
	2-way flow control valve		2FRM6K2-1X/ ^{21.2} <input type="checkbox"/> RV		
Throttle valve	HSZ 06A 401-3X/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 401-3X/D ⁵¹ <input type="checkbox"/> -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 <input type="checkbox"/> M8x1-DIN906		
Material no. see page 92					

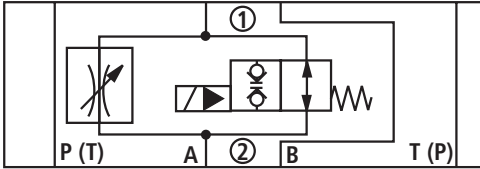
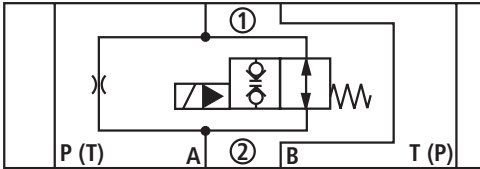
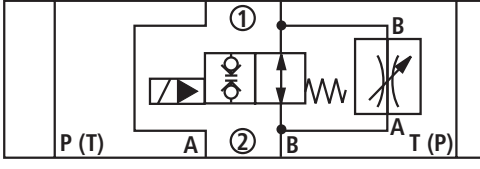
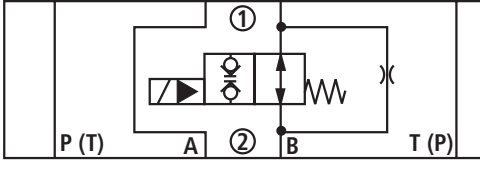
Order examples, see page 68

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

Device designation	Flow control cartridge valve		Plate L x W x H	Dimensional sheet and more information
	Type designation	Material no.	Weight	
Material no.	Symbol		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	HSZ 06A 402-3X/FRM ^{21.2} <input type="checkbox"/> -A06G24K4M00 2FRM6K2-1X/ ^{21.2} <input type="checkbox"/> RV		150 x 44 x 70 3.7 kg	R901033750 Valve on side F RE 28155 Valve on side E
Throttle valve	HSZ 06A 402-3X/FGM1-A06G24K4M00 SITZVENTIL OD.15.06.18.1A.S0.000 SPULE OD.02.17.01.30.OC.000 FGM6K2-1X/1QV		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 DUESE ⁵¹ <input type="checkbox"/> M8x1-DIN906 Material no. see page 92	HSZ 06A 402-3X/D ⁵¹ <input type="checkbox"/> -A06G24K4M00		3.6 kg	RN 115.06

Order examples, see page 68

Rapid motion - creep speed function, normally open (blocking on both sides, 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 400-3X/FGM1-B06G24K4M00		150 x 44 x 70	R901028268
Fitting of the sandwich plate: SITZVENTIL OD.15.32.18.1A.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
<hr/>				
	HSZ 06A 400-3X/D ⁵¹ -B06G24K4M00		3.6 kg	
Fitting of the sandwich plate: SITZVENTIL OD.15.32.18.1A.S0.000 SPULE OD.02.17.01.30.OC.000				
	⁵¹ DUESE ⁵¹ M8x1-DIN906			RN 115.06
Material no. see page 92				
<hr/>				
Sandwich plate with R ring plate	HSZ 06A 401-3X/FGM1-B06G24K4M00		150 x 44 x 70	R901047673
Fitting of the sandwich plate: SITZVENTIL OD.15.32.18.1A.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
<hr/>				
	HSZ 06A 401-3X/D ⁵¹ -B06G24K4M00		3.6 kg	
Fitting of the sandwich plate: SITZVENTIL OD.15.32.18.1A.S0.000 SPULE OD.02.17.01.30.OC.000				
	⁵¹ DUESE ⁵¹ M8x1-DIN906			RN 115.06
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/ ⁴¹FGM1 - ⁴²A 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)

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 403-3X/A <input type="checkbox"/> ¹⁷ <input type="checkbox"/> ²¹ <input type="checkbox"/> ²² -A05G24K4M00		100 x 44 x 70	R901064040	
	<p>Fitting of the sandwich plate:</p> <p>SITZVENTIL OD.15.05.18.3A.S0.000 SPULE OD.02.17.01.30.OC.000</p> <p>2-way flow control valve 2FRM6 A <input type="checkbox"/> ¹⁷ <input type="checkbox"/> ²¹ <input type="checkbox"/> ²² 6-3X/ <input type="checkbox"/> <input type="checkbox"/> V</p> <p>(with closing of the pressure compensator)</p>		3.7 kg		
Sandwich plate with R ring plate	HSZ 06A 403-3X/B <input type="checkbox"/> ¹⁷ <input type="checkbox"/> ²¹ <input type="checkbox"/> ²² -A05G24K4M00		100 x 44 x 70	R901028370	
	<p>Fitting of the sandwich plate:</p> <p>SITZVENTIL OD.15.05.18.3A.S0.000 SPULE OD.02.17.01.30.OC.000</p> <p>2-way flow control valve 2FRM6 B <input type="checkbox"/> ¹⁷ <input type="checkbox"/> ²¹ <input type="checkbox"/> ²² 6-3X/ <input type="checkbox"/> <input type="checkbox"/> V</p> <p>(without closing of the pressure compensator)</p>		3.7 kg		
Sandwich plate with R ring plate	HSZ 06A 403-3X/B <input type="checkbox"/> ¹⁷ <input type="checkbox"/> ²¹ <input type="checkbox"/> ²² -A05G24K4M00		100 x 44 x 70	R901028370	
	<p>Fitting of the sandwich plate:</p> <p>SITZVENTIL OD.15.05.18.3A.S0.000 SPULE OD.02.17.01.30.OC.000</p> <p>2-way flow control valve 2FRM6 B <input type="checkbox"/> ¹⁷ <input type="checkbox"/> ²¹ <input type="checkbox"/> ²² 6-3X/ <input type="checkbox"/> <input type="checkbox"/> V</p> <p>(without closing of the pressure compensator)</p>		3.7 kg		

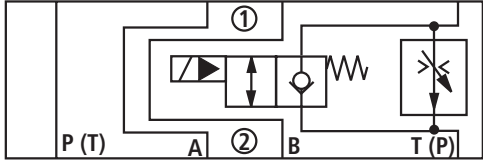
Order example, see page 74

Rapid motion - creep speed function, normally closed (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	
Device designation	Material no.	Symbol	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 <input type="checkbox"/> 17 <input type="checkbox"/> 21 <input type="checkbox"/> 22 6-3X/ <input type="checkbox"/> <input type="checkbox"/> V (with closing of the pressure compensator)	HSZ 06A 404-3X/A <input type="checkbox"/> 17 <input type="checkbox"/> 21 <input type="checkbox"/> 22 -A05G24K4M00		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.15.05.18.3A.S0.000 SPULE OD.02.17.01.30.OC.000 2-way flow control valve 2FRM6 B <input type="checkbox"/> 17 <input type="checkbox"/> 21 <input type="checkbox"/> 22 6-3X/ <input type="checkbox"/> <input type="checkbox"/> V (without closing of the pressure compensator)	HSZ 06A 404-3X/B <input type="checkbox"/> 17 <input type="checkbox"/> 21 <input type="checkbox"/> 22 -A05G24K4M00		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.15.05.18.3A.S0.000 SPULE OD.02.17.01.30.OC.000 2-way flow control valve 2FRM6 B <input type="checkbox"/> 17 <input type="checkbox"/> 21 <input type="checkbox"/> 22 6-3X/ <input type="checkbox"/> <input type="checkbox"/> V (without closing of the pressure compensator)	HSZ 06A 404-3X/B <input type="checkbox"/> 17 <input type="checkbox"/> 21 <input type="checkbox"/> 22 -A05G24K4M00		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 closed (blocking on one side, ① = component side, ② = plate side)

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

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
	Material no.		Weight	and more information
		Size of the ports		
Sandwich plate with R ring plate	HSZ 06A 403-3X/A <input type="checkbox"/> ¹⁷ <input type="checkbox"/> ²¹ <input type="checkbox"/> ²² -A06G24K4M00		100 x 44 x 70	R901064040
	<p>Fitting of the sandwich plate:</p> <p>SITZVENTIL OD.15.06.18.1A.S0.000 SPULE OD.02.17.01.30.OC.000</p> <p>2-way flow control valve 2FRM6 A <input type="checkbox"/> ¹⁷ 6-3X/ <input type="checkbox"/> ²¹ <input type="checkbox"/> ²² V</p> <p>(with closing of the pressure compensator)</p>			
Sandwich plate with R ring plate	HSZ 06A 403-3X/B <input type="checkbox"/> ¹⁷ <input type="checkbox"/> ²¹ <input type="checkbox"/> ²² -A06G24K4M00		100 x 44 x 70	R901028370
	<p>Fitting of the sandwich plate:</p> <p>SITZVENTIL OD.15.06.18.1A.S0.000 SPULE OD.02.17.01.30.OC.000</p> <p>2-way flow control valve 2FRM6 B <input type="checkbox"/> ¹⁷ 6-3X/ <input type="checkbox"/> ²¹ <input type="checkbox"/> ²² V</p> <p>(without closing of the pressure compensator)</p>			
Sandwich plate with R ring plate	HSZ 06A 403-3X/B <input type="checkbox"/> ¹⁷ <input type="checkbox"/> ²¹ <input type="checkbox"/> ²² -A06G24K4M00		100 x 44 x 70	R901028370
	<p>Fitting of the sandwich plate:</p> <p>SITZVENTIL OD.15.06.18.1A.S0.000 SPULE OD.02.17.01.30.OC.000</p> <p>2-way flow control valve 2FRM6 B <input type="checkbox"/> ¹⁷ 6-3X/ <input type="checkbox"/> ²¹ <input type="checkbox"/> ²² V</p> <p>(without closing of the pressure compensator)</p>			

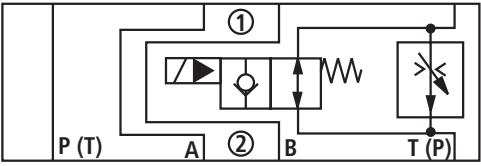
Order example, see page 74

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 404-3X/A <input type="checkbox"/> ¹⁷ <input type="checkbox"/> ²¹ <input type="checkbox"/> ²² -A06G24K4M00		100 x 44 x 70	R901064115
	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 <input type="checkbox"/> ¹⁷ <input type="checkbox"/> ²¹ <input type="checkbox"/> ²² 6-3X/ <input type="checkbox"/> <input type="checkbox"/> V		3.7 kg	
(with closing of the pressure compensator)				
Sandwich plate with R ring plate	HSZ 06A 404-3X/B <input type="checkbox"/> ¹⁷ <input type="checkbox"/> ²¹ <input type="checkbox"/> ²² -A06G24K4M00		100 x 44 x 70	R901064119
	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 <input type="checkbox"/> ¹⁷ <input type="checkbox"/> ²¹ <input type="checkbox"/> ²² 6-3X/ <input type="checkbox"/> <input type="checkbox"/> V		3.7 kg	
(without closing of the pressure compensator)				
Sandwich plate with R ring plate	HSZ 06A 404-3X/B <input type="checkbox"/> ¹⁷ <input type="checkbox"/> ²¹ <input type="checkbox"/> ²² -A06G24K4M00		100 x 44 x 70	R901064119
	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 <input type="checkbox"/> ¹⁷ <input type="checkbox"/> ²¹ <input type="checkbox"/> ²² 6-3X/ <input type="checkbox"/> <input type="checkbox"/> V		3.7 kg	
(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)

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 with R ring plate	HSZ 06A 405-3X/B <input type="checkbox"/> ¹⁷ <input type="checkbox"/> ²¹ <input type="checkbox"/> 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 <input type="checkbox"/> ¹⁷ <input type="checkbox"/> 6-3X/ <input type="checkbox"/> ²¹ <input type="checkbox"/> 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/ ²⁰ ¹⁷ ²¹ ²² ⁴² ⁴³ G24K4 ² ³

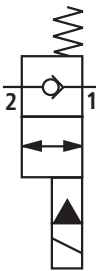
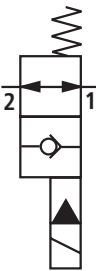
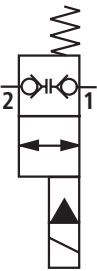
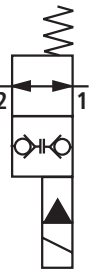
Rapid motion - creep speed function, electrically switchable (① = component side, ② = plate side)

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

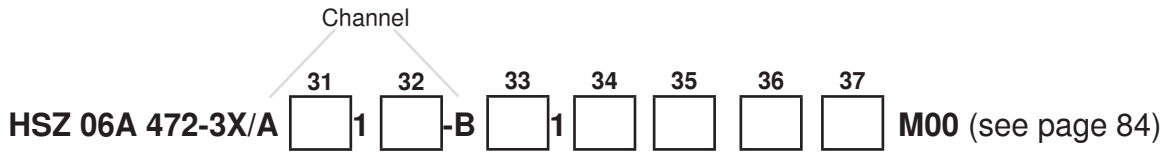
Complementary details on sandwich plates with short-circuit valves for numbers 435, 498, 517, 519, 525, 589.

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

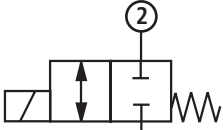
<p>31</p> <input type="checkbox"/>	<p>Symbols of the 2/2 directional seat valve:</p>	<p>= A05</p> 	<p>= A06</p> 	<p>= B05</p> 	<p>= B06</p> 
<p>32</p> <input type="checkbox"/>	<p>Manual override at the 2/2 directional seat valve:</p>	<p>Without manual override</p> <p>With concealed manual override</p> <p>Without manual override lockable in pushed spool position</p> <p>without manual override</p> <p>Manual override screwable</p>	<p>= 1A</p> <p>= 1B</p> <p>= 1C</p> <p>= 3A</p> <p>= 3D</p>		
<p>33</p> <input type="checkbox"/>	<p>Solenoid voltage at the 2/2 directional seat valve:</p>	<p>DC voltage 12 V</p> <p>Direct voltage 24 V</p> <p>Direct voltage 26 V</p> <p>Direct voltage 110 V</p> <p>Direct voltage 220 V</p>	<p>= G12</p> <p>= G24</p> <p>= G26</p> <p>= G110</p> <p>= G220</p>		
<p>34</p> <input type="checkbox"/>	<p>Manual override:</p>	<p>Manual override</p> <p>without manual override</p>	<p>= N</p> <p>= No information</p>		
<p>35</p> <input type="checkbox"/>	<p>Electrical types of connection:</p>	<p>03pol (2+PE) DIN EN 175301-803, without mating connector</p> <p>02pol K40 DT 04-2PA Deutsch, without mating connector</p> <p>02pol C4/Z30 AMP Junior-Timer, without mating connector</p>	<p>= K4</p> <p>= K40</p> <p>= C4</p>		
<p>50</p> <input type="checkbox"/>	<p>Orifice fitting with A519, A525, A589 (internal thread M8X1):</p>	<p>Example: 10: Orifice M8X1 with Ø1.0 mm fitting of Ø0.4 mm to Ø4.0 mm possible</p>	<p>= 10</p>		

Functional group miscellaneous

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



<p>³¹ <input type="checkbox"/></p> <p>and</p> <p>³³ <input type="checkbox"/></p>	<p>Directional spool valve: Direct operated, electrically operated KKDE</p> <p>Directional seat valve: Direct operated, electrically operated KSDE</p>	<p>= K</p> <p>= S</p>
--	--	-----------------------

<p>³² <input type="checkbox"/></p> <p>and</p> <p>³⁴ <input type="checkbox"/></p>	<p>Symbols of the directional spool valve KKDE:</p>	 <p>= N</p>
--	--	--

 <p>= P</p>
--

<p>Symbols of the directional seat valve KSDE:</p>	 <p>= N</p>
---	--

 <p>= P</p>
--

<p>³⁵ <input type="checkbox"/></p>	<p>Solenoid voltage at the directional spool (seat) valve:</p>	<p>Direct voltage 12 V</p> <p>Direct voltage 24 V</p> <p>Direct voltage 48 V</p> <p>Direct voltage 96 V</p> <p>Direct voltage 205 V</p>	<p>= G12</p> <p>= G24</p> <p>= G48</p> <p>= G96</p> <p>= G205</p>
---	---	---	---

<p>³⁶ <input type="checkbox"/></p>	<p>Manual override:</p>	<p>Without manual override</p> <p>With concealed manual override</p> <p>With screwable manual override (operation by means of knurled screw)</p>	<p>= N0</p> <p>= N9</p> <p>= N11 (only KSDE)</p>
---	--------------------------------	--	--

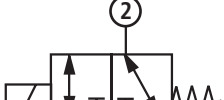
<p>³⁷ <input type="checkbox"/></p>	<p>Electrical types of connection:</p>	<p>03pol (2+PE) DIN EN 175301-803, without mating connector</p> <p>02pol K40 DT 04-2PA Deutsch, without mating connector</p> <p>02pol C4/Z30 AMP Junior-Timer, without mating connector</p>	<p>= K4</p> <p>= K40</p> <p>= C4</p>
---	---	---	--------------------------------------

Functional group miscellaneous

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

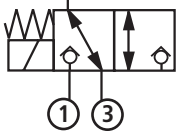
HSZ 06A ...-3X/ ³¹ ³² ³³ ³⁴ ³⁵ M00 (see page 85 and 75)

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:  = C
 Observe the max. admissible pressure of 50 bar at port 3!

 = 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

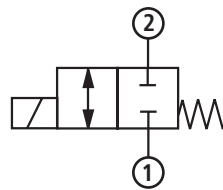
Functional group miscellaneous

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

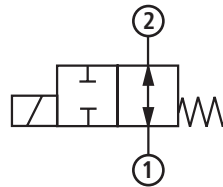
HSZ 06A 638-4X/K ³¹ DE ³² ³⁵ ³⁶ ³⁷ M00 (see page 87)

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:

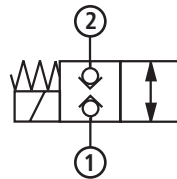


= N

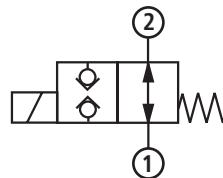


= P

Symbols of the directional seat valve KSDE:



= N



= P

³⁵ **Solenoid voltage** at the directional spool (seat) valve: Direct voltage 12 V = G12
 Direct voltage 24 V = G24
 Direct voltage 48 V = G48
 Direct voltage 96 V = G96
 Direct voltage 205 V = G205

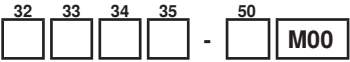
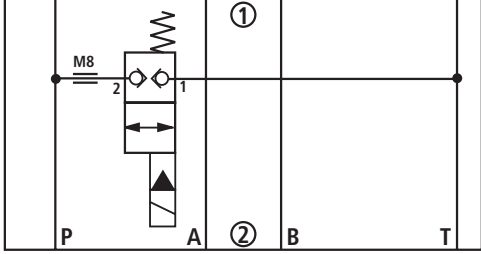
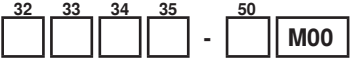
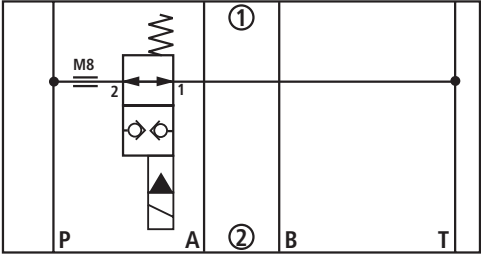
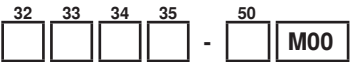
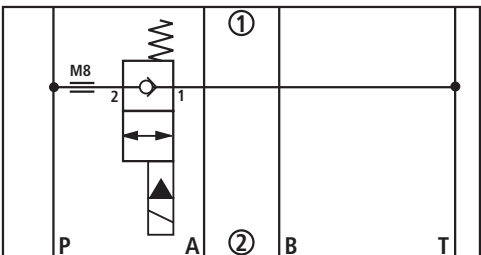
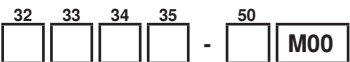
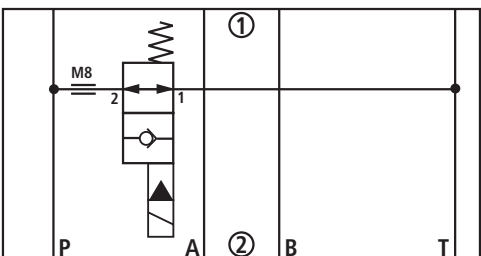
³⁶ **Manual override:** without manual override = N0
 with concealed manual override = N9
 with screwable manual override (operation by means of knurled screw) = N11 (only KSDE)

³⁷ **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

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 <table style="display: inline-table; vertical-align: middle;"> <tr> <td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">32</td> <td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">33</td> <td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">34</td> <td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">35</td> <td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">-</td> <td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">50</td> <td style="border: 1px solid black; width: 40px; height: 20px; text-align: center; font-weight: bold;">M00</td> </tr> </table>	32	33	34	35	-	50	M00		85 x 44 x 50	R901121122 RE 90005-03 R901123004
	32	33	34	35	-	50	M00				
	1.6 kg										
Sandwich plate	HSZ 06A 498 -3X/B06 <table style="display: inline-table; vertical-align: middle;"> <tr> <td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">32</td> <td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">33</td> <td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">34</td> <td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">35</td> <td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">-</td> <td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">50</td> <td style="border: 1px solid black; width: 40px; height: 20px; text-align: center; font-weight: bold;">M00</td> </tr> </table>	32	33	34	35	-	50	M00		85 x 44 x 50	R901121122 RE 90005-03 R901123004
	32	33	34	35	-	50	M00				
	1.6 kg										
Sandwich plate	HSZ 06A 498 -3X/A05 <table style="display: inline-table; vertical-align: middle;"> <tr> <td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">32</td> <td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">33</td> <td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">34</td> <td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">35</td> <td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">-</td> <td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">50</td> <td style="border: 1px solid black; width: 40px; height: 20px; text-align: center; font-weight: bold;">M00</td> </tr> </table>	32	33	34	35	-	50	M00		85 x 44 x 50	R901121122 RE 90005-03 R901123004
	32	33	34	35	-	50	M00				
	1.6 kg										
Sandwich plate	HSZ 06A 498 -3X/A06 <table style="display: inline-table; vertical-align: middle;"> <tr> <td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">32</td> <td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">33</td> <td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">34</td> <td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">35</td> <td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">-</td> <td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">50</td> <td style="border: 1px solid black; width: 40px; height: 20px; text-align: center; font-weight: bold;">M00</td> </tr> </table>	32	33	34	35	-	50	M00		85 x 44 x 50	R901121122 RE 90005-03 R901123004
	32	33	34	35	-	50	M00				
	1.6 kg										

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	
Sandwich plate	HSZ 06A 519 -4X/B05		85 x 44 x 70	R901123599 Internal thread M8 RE 90005-03
			1.9 kg	
Sandwich plate	HSZ 06A 519 -4X/B06		85 x 44 x 70	R901123599 Internal thread M8 RE 90005-03
			1.9 kg	
Sandwich plate	HSZ 06A 519 -4X/A05		85 x 44 x 70	R901123599 Internal thread M8 RE 90005-03
			1.9 kg	
Sandwich plate	HSZ 06A 519 -4X/A06		85 x 44 x 70	R901123599 Internal thread M8 RE 90005-03
			1.9 kg	

Short-circuit valves (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 589 -4X/B05 <input type="checkbox"/> 32 <input type="checkbox"/> 33 <input type="checkbox"/> 34 <input type="checkbox"/> 35 - <input type="checkbox"/> 50 M00		90 x 44 x 60 1.6 kg	R901129876 Internal thread M8 RE 90005-03
Sandwich plate	HSZ 06A 589 -4X/B06 <input type="checkbox"/> 32 <input type="checkbox"/> 33 <input type="checkbox"/> 34 <input type="checkbox"/> 35 - <input type="checkbox"/> 50 M00		90 x 44 x 60 1.6 kg	R901129876 Internal thread M8 RE 90005-03
Sandwich plate	HSZ 06A 589 -4X/A05 <input type="checkbox"/> 32 <input type="checkbox"/> 33 <input type="checkbox"/> 34 <input type="checkbox"/> 35 - <input type="checkbox"/> 50 M00		90 x 44 x 60 1.6 kg	R901129876 Internal thread M8 RE 90005-03
Sandwich plate	HSZ 06A 589 -4X/A06 <input type="checkbox"/> 32 <input type="checkbox"/> 33 <input type="checkbox"/> 34 <input type="checkbox"/> 35 - <input type="checkbox"/> 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
	Material no.		Weight	and more information
			Size of the ports	
Sandwich plate	HSZ 06A 525 -4X/B05 <input type="checkbox"/> ³² <input type="checkbox"/> ³³ <input type="checkbox"/> ³⁴ <input type="checkbox"/> ³⁵ - <input type="checkbox"/> ⁵⁰ M00		90 x 44 x 60 1.7 kg	R901130409 Internal thread M8 RE 90005-03
Sandwich plate	HSZ 06A 525 -4X/B06 <input type="checkbox"/> ³² <input type="checkbox"/> ³³ <input type="checkbox"/> ³⁴ <input type="checkbox"/> ³⁵ - <input type="checkbox"/> ⁵⁰ M00		90 x 44 x 60 1.7 kg	R901130409 Internal thread M8 RE 90005-03
Sandwich plate	HSZ 06A 525 -4X/A05 <input type="checkbox"/> ³² <input type="checkbox"/> ³³ <input type="checkbox"/> ³⁴ <input type="checkbox"/> ³⁵ - <input type="checkbox"/> ⁵⁰ M00		90 x 44 x 60 1.7 kg	R901130409 Internal thread M8 RE 90005-03
Sandwich plate	HSZ 06A 525 -4X/A06 <input type="checkbox"/> ³² <input type="checkbox"/> ³³ <input type="checkbox"/> ³⁴ <input type="checkbox"/> ³⁵ - <input type="checkbox"/> 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	<input type="checkbox"/> ³⁵ <input type="checkbox"/> ³⁶ <input type="checkbox"/> ³⁷ <input type="checkbox"/> M00	140 x 44 x 50 3.0 kg	R901026944 RE 90005-03
Sandwich plate	HSZ 06A 472 -3X/AS1P-BS1P	<input type="checkbox"/> ³⁵ <input type="checkbox"/> ³⁶ <input type="checkbox"/> ³⁷ <input type="checkbox"/> M00	140 x 44 x 50 3.0 kg	R901026944 RE 90005-03
Sandwich plate	HSZ 06A 517 -4X/B05	<input type="checkbox"/> ³² <input type="checkbox"/> ³³ <input type="checkbox"/> ³⁴ <input type="checkbox"/> ³⁵ <input type="checkbox"/> M00	90 x 44 x 50 1.2 kg	R901120319 RE 90005-03
Sandwich plate	HSZ 06A 517 -4X/B06	<input type="checkbox"/> ³² <input type="checkbox"/> ³³ <input type="checkbox"/> ³⁴ <input type="checkbox"/> ³⁵ <input type="checkbox"/> 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	<div style="display: flex; align-items: center; gap: 10px;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; font-size: 8px;">33</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; font-size: 8px;">34</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; font-size: 8px;">35</div> <div style="border: 1px solid black; padding: 2px 5px; font-weight: bold; font-size: 10px;">M00</div> </div>	105 x 44 x 70	R901034196 RE 18136-21
		2.7 kg		
Sandwich plate	HSZ 06A 473 -3X/KSDEU	<div style="display: flex; align-items: center; gap: 10px;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; font-size: 8px;">33</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; font-size: 8px;">34</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; font-size: 8px;">35</div> <div style="border: 1px solid black; padding: 2px 5px; font-weight: bold; font-size: 10px;">M00</div> </div>	105 x 44 x 70	R901034196 RE 18136-21
		2.7 kg		
Sandwich plate	HSZ 06A 473 -3X/KKDEU	<div style="display: flex; align-items: center; gap: 10px;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; font-size: 8px;">33</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; font-size: 8px;">34</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; font-size: 8px;">35</div> <div style="border: 1px solid black; padding: 2px 5px; font-weight: bold; font-size: 10px;">M00</div> </div>	105 x 44 x 70	R901034196 RE 18136-04
		2.7 kg		
Sandwich plate	HSZ 06A 473 -3X/KKDEG	<div style="display: flex; align-items: center; gap: 10px;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; font-size: 8px;">33</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; font-size: 8px;">34</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; font-size: 8px;">35</div> <div style="border: 1px solid black; padding: 2px 5px; font-weight: bold; font-size: 10px;">M00</div> </div>	105 x 44 x 70	R901034196 RE 18136-04
		2.7 kg		

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

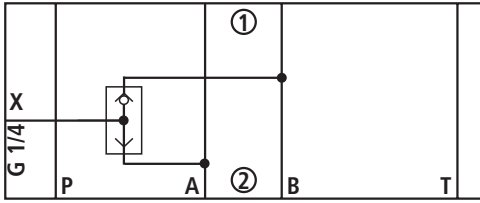
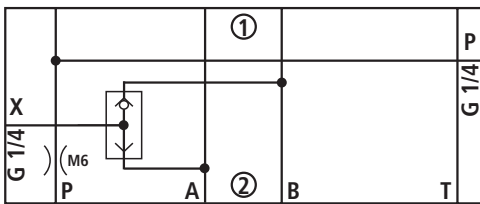
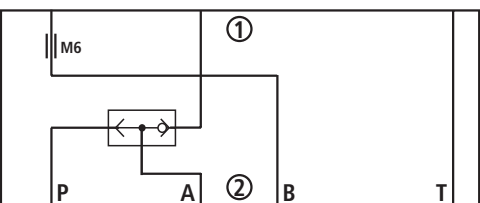
Device designation	Type designation	Symbol	Plate L x W x H	Dimensional sheet
	Material no.		Weight	and more information
Sandwich plate	HSZ 06A 473 -3X/KKDEC		105 x 44 x 70	R901034196
	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 2px;">33</div> <div style="border: 1px solid black; padding: 2px;">34</div> <div style="border: 1px solid black; padding: 2px;">35</div> <div style="border: 1px solid black; padding: 2px;">M00</div> </div>		2.7 kg	RE 18136-04
Sandwich plate	HSZ 06 A435-3X/ D05-A06G24K4M00		100 x 44 x 90	R900248817
	R900248253		2.9 kg	Orifice 0.5 mm RE 90005-03

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

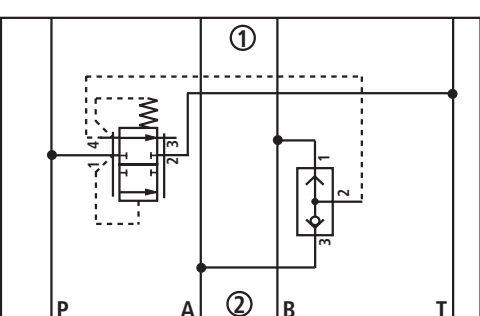
Short-circuit valves pilot function (① = component side, ② = plate side)

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 R901248166		178 x 44 x 90	R901251588 RE 00162-12
Sandwich plate	HSZ 06 A638-4X/ KSDENG24K4V00 R901248168		178 x 44 x 90	R901251588 RE 00162-12
Sandwich plate	HSZ 06 A638-4X/ KKDEPG24K4V00 R901248175		178 x 44 x 90	R901251588 RE 00162-12
Sandwich plate	HSZ 06 A638-4X/ KKDENG24K4V00 R901248177		178 x 44 x 90	R901251588 RE 00162-12

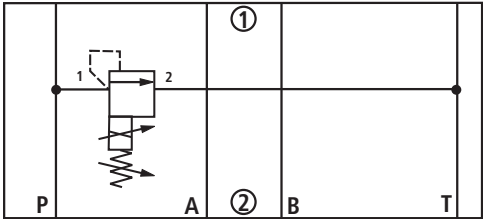
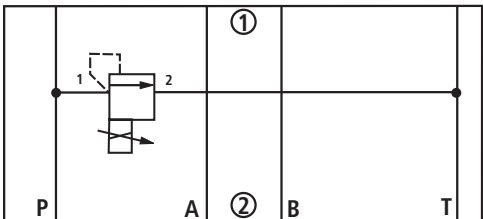
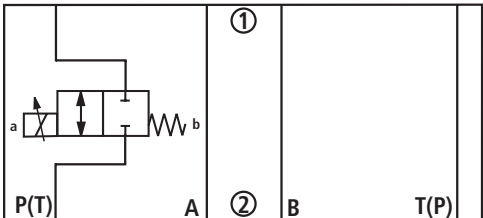
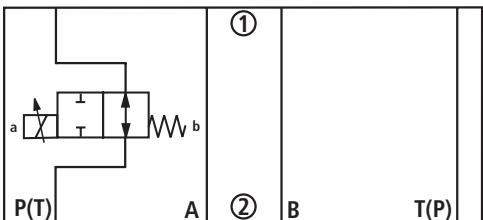
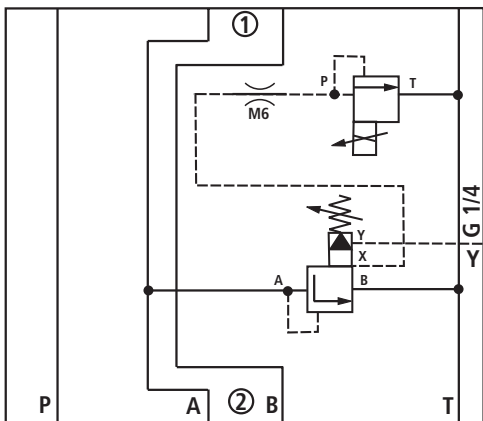
Shuttle valves (① = component side, ② = plate side)

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		
Sandwich plate	HSZ 06A 660-4X/ MHSU2K-D25M01		115 x 44 x 40	R901222663 Orifice 2.5 mm RE 18205	
	R901220129		1.02 kg		
Sandwich plate	HSZ 06A 461-3X/ 420-LG6-D..M00		81 x 44 x 40	R900775581 Internal thread M6	
			0.94 kg		

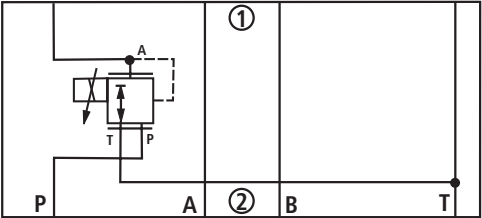
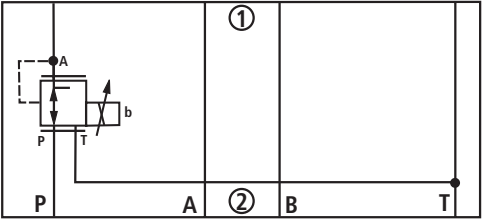
Pressure compensators (① = component side, ② = plate side)

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		80 x 44 x 40	R901251588	
	R901248164				RE 18139-05
Sandwich plate	HSZ 06 A638-4X/ KBPSPAG24K4V00		80 x 44 x 40	R901251588	
	R901248165				RE 18139-04
Sandwich plate with R ring plate	HSZ 06 A637-3X/ KKDSNG24N0K4V00		100 x 44 x 60	R901244695	
	R901243964		3.015 kg		RE 18139-06
Sandwich plate with R ring plate	HSZ 06 A637-3X/ KKDSPG24N0K4V00		100 x 44 x 60	R901244695	
	R901244401		3.015 kg		RE 18139-06
Sandwich plate	HSZ 06 A470-3X/ XY-P8G24K4-08M01		140 x 44 x 100	R901050155	
			4.5 kg		Orifice 0.8 mm RE 25731 RE 18139-04 RE 18139-05

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 A541-3X/M00		120 x 44 x 40	R900268894 RE 29181
	R900913208			
Sandwich plate	HSZ 06 A466-3X/M00		120 x 44 x 70	R901007360 RE 64655
	R901007270			

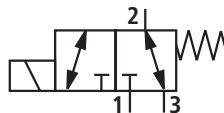
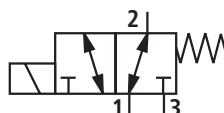
Functional group clamping hydraulics

Example: **HSZ 06 A 433 – 3X/PRDB –**

46	47	47.2

 – K1

48	49	50	51	2	3

<p>46</p> <div style="border: 1px solid black; width: 30px; height: 20px; margin-bottom: 5px;"></div>	<p>Adjustment element at the 3-way pressure control valve</p>	<p>Setscrew with internal hexagon Hand wheel Hand wheel for panel mounting Adjustment protection, set in the factory</p>	<p>= L = K = O = C</p>
<p>47</p> <div style="border: 1px solid black; width: 30px; height: 20px; margin-bottom: 5px;"></div>	<p>Set pressure at the 3-way pressure control valve:</p>	<p>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</p>	<p>= A = B = D = E = S = W</p>
<p>47.2</p> <div style="border: 1px solid black; width: 30px; height: 20px; margin-bottom: 5px;"></div>	<p>Seal material ⚠ Attention! Observe compatibility of seals with hydraulic fluid used!</p>	<p>NBR seals FKM seals (other seals upon request)</p>	<p>= N = V</p>
<p>48</p> <div style="border: 1px solid black; width: 30px; height: 20px; margin-bottom: 5px;"></div>	<p>Symbol of the 3/2 directional spool valve:</p>	<div style="text-align: center;">  </div>	<p>= C</p>
<p>49</p> <div style="border: 1px solid black; width: 30px; height: 20px; margin-bottom: 5px;"></div>	<p>Solenoid voltage at the directional spool valve:</p>	<div style="text-align: center;">  </div>	<p>= U</p>
<p>49</p> <div style="border: 1px solid black; width: 30px; height: 20px; margin-bottom: 5px;"></div>	<p>Solenoid voltage at the directional spool valve:</p>	<p>Direct voltage 12 V Direct voltage 24 V Direct voltage 48 V Direct voltage 96 V Direct voltage 205 V</p>	<p>= G12 = G24 = G48 = G96 = G205</p>
<p>50</p> <div style="border: 1px solid black; width: 30px; height: 20px; margin-bottom: 5px;"></div>	<p>Manual override at the 3/2 directional spool valve:</p>	<p>Without manual override Concealed manual override</p>	<p>= N0 = N9</p>
<p>51</p> <div style="border: 1px solid black; width: 30px; height: 20px; margin-bottom: 5px;"></div>	<p>Electrical types of connection</p>	<p>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</p>	<p>= K4 = K40 = C4</p>

Clamping hydraulics (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 433-3X/PRDB - <input type="checkbox"/> ⁴⁶ <input type="checkbox"/> ⁴⁷ <input type="checkbox"/> ^{47.2} - K1 <input type="checkbox"/> ⁴⁸ <input type="checkbox"/> ⁴⁹ <input type="checkbox"/> ⁵⁰ <input type="checkbox"/> ⁵¹ M01	Fitting of the sandwich plate: Pressure control valve PRDB - <input type="checkbox"/> ⁴⁶ <input type="checkbox"/> ⁴⁷ <input type="checkbox"/> ^{47.2} 3/2 directional spool valve KKDER1 <input type="checkbox"/> ⁴⁸ <input type="checkbox"/> ^{A/H} <input type="checkbox"/> ^{35.1} <input type="checkbox"/> ^V SPULE GZ37-4 24VDC 22W		170 x 44 x 70	R900247860
			4.5 kg Side F M G 1/4	RE 18136-04 Valve on side E RE 18136-04 valve on side F
Sandwich plate HSZ 06A 433-3X/PRDB - <input type="checkbox"/> ⁴⁶ <input type="checkbox"/> ⁴⁷ <input type="checkbox"/> ^{47.2} - K1 <input type="checkbox"/> ⁴⁸ <input type="checkbox"/> ⁴⁹ <input type="checkbox"/> ⁵⁰ <input type="checkbox"/> ⁵¹ C M01	Fitting of the sandwich plate: Pressure control valve PRDB - <input type="checkbox"/> ⁴⁶ <input type="checkbox"/> ⁴⁷ <input type="checkbox"/> ^{47.2} 3/2 directional spool valve KKDER1 <input type="checkbox"/> ⁴⁸ <input type="checkbox"/> ^{A/H} <input type="checkbox"/> ^{35.1} <input type="checkbox"/> ^V SPULE GZ37-4 24VDC 22W		170 x 44 x 70	R900247860
			4.5 kg Side F M G 1/4	RE 18136-04 Valve on side E RE 18136-04 valve on side F

Order example

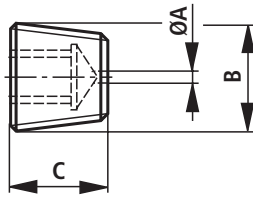
For complete device with 3/2 directional seat valve and pressure control valve:

HSZ 06A 433-3X/PRDB - ⁴⁶ ⁴⁷ ^{47.2} - K1 ⁴⁸ ⁴⁹ ⁵⁰ ⁵¹ ² ³ **L A N - K1 U G24 N9 K4 M 01**

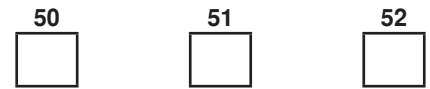
Sandwich plate HSZ 06-26724-AA/G24K4M01 R900955350		180 x 44 x 160	R900277006
		10.0 kg	RE 90005-03 RE 26850

Orifices, R ring plate, seals

Form 7 (RN 115.06)
 Plug screw DIN 906

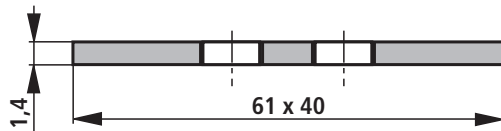


⚠ Attention!
 Spelling ()
 with complete type!



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

Bosch Rexroth AG
 Hydraulics
 Zum Eisengießer 1
 97816 Lohr am Main, Germany
 Phone +49 (0) 93 52 / 18-0
 Fax +49 (0) 93 52 / 18-23 58
 documentation@boschrexroth.de
 www.boschrexroth.de

©This document, as well as the data, specifications and other information set forth in it, are the exclusive property of Bosch Rexroth AG. It may not be reproduced or given to third parties without its consent. The data specified above only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that our products are subject to a natural process of wear and aging.

Notes

Bosch Rexroth AG
Hydraulics
Zum Eisengießer 1
97816 Lohr am Main, Germany
Phone +49 (0) 93 52 / 18-0
Fax +49 (0) 93 52 / 18-23 58
documentation@boschrexroth.de
www.boschrexroth.de

©This document, as well as the data, specifications and other information set forth in it, are the exclusive property of Bosch Rexroth AG. It may not be reproduced or given to third parties without its consent. The data specified above only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that our products are subject to a natural process of wear and aging.

Notes

Bosch Rexroth AG
Hydraulics
Zum Eisengießer 1
97816 Lohr am Main, Germany
Phone +49 (0) 93 52 / 18-0
Fax +49 (0) 93 52 / 18-23 58
documentation@boschrexroth.de
www.boschrexroth.de

©This document, as well as the data, specifications and other information set forth in it, are the exclusive property of Bosch Rexroth AG. It may not be reproduced or given to third parties without its consent. The data specified above only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that our products are subject to a natural process of wear and aging.

Notes

Bosch Rexroth AG
Hydraulics
Zum Eisengießer 1
97816 Lohr am Main, Germany
Phone +49 (0) 93 52 / 18-0
Fax +49 (0) 93 52 / 18-23 58
documentation@boschrexroth.de
www.boschrexroth.de

©This document, as well as the data, specifications and other information set forth in it, are the exclusive property of Bosch Rexroth AG. It may not be reproduced or given to third parties without its consent. The data specified above only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that our products are subject to a natural process of wear and aging.