

Sandwich plates

Porting pattern to DIN 24340 form A and ISO 4401

RE 48056/04.06
Replaces: 10.05

1/24

Type HSZ 22

Size 22
Component series 3X
Maximum operating pressure 315 bar

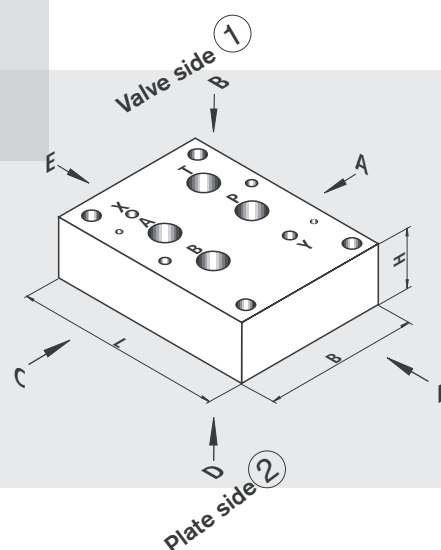


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Features

- Vertical stacking modules of sandwich plate design

– Supplements the existing sandwich plate product range

– Mounted as individual modules or as vertical stacking assemblies on multi-station manifolds, modular plate system IH20 or vario-plates

– Great variability due to the possibility of different combinations and subsequent changes or extension of functions

– Maximum operating pressure
 - Without valve function: 315 bar
 - With valve function: Max. 315 bar (depends on valves fitted)

– Weight data includes installed or mounted valves

Explanation of type code for sandwich plates HSZ 22

HSZ 22 B

1

– 3X/

2

3

4

*

1

Serial number of function version from 001 ... 999 (determined in the factory)

2

Type of seal:

NBR seals

(other seals on enquiry)

FKM seals

= M (standard)

= V

Note: Observe compatibility of seals with hydraulic fluid used!

3

Type of connection:

No external connection

Connection to DIN 3852 part

Thread to DIN ISO 228 (pipe thread)

= 00

= 01

4

*

Further details in clear text

Order examples:

Material no.	Type designation	Component designation
R900901980	HSZ 22 B036-3X/M01	Sandwich plate without valve function
R900959272	HSZ 22 B181-3X/05M01	Sandwich plate with fixed valve configuration
R900900309	HSZ 22 B106-3X/ 1516 S200 M00	Sandwich plate with selectable valve configuration

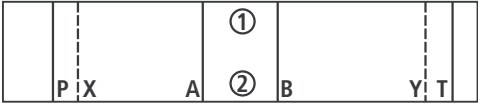
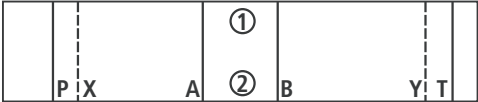
For the type codes and order examples of sandwich plates fitted with valves, see the relevant function groups!

Sandwich plates with optional valves fitted can be delivered as complete unit (with valves installed) or as assembly kit (only with seals, plug screws, nameplate).

• For circuits and versions other than those given in the data sheet, please consult us!

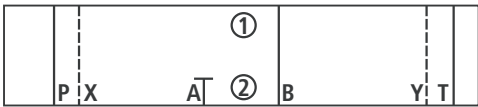
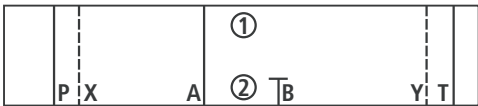
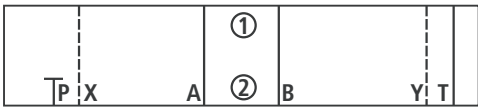
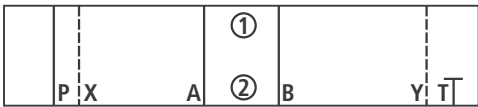
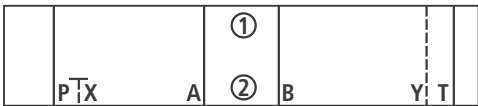
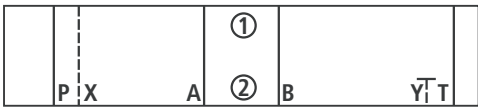
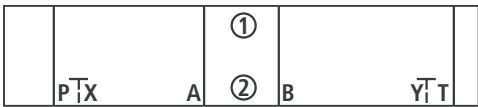
• Connection threads in HSZ plates are always closed with pressure-tight plugs.

Spacer plates without connection (① = component side, ② = plate side)

Component designation	Type designation Material no.	Symbol	Plate L x W x H Weight Size of ports	Dimensional sheet Further information
Sandwich plate	HSZ 22 B007-3X/M00 R901005966		160 x 117 x 20 2.7 kg	R901005941 Thread M12 x 1.5 provided in channels X and Y
Sandwich plate	HSZ 22 B004-3X/M00 R900907504		160 x 117 x 50 6.8 kg	R900267861

Spacer plates without port, with blocked system drilling

(① = component side, ② = plate side)

Component designation	Type designation Material no.	Symbol	Plate L x W x H Weight Size of ports	Dimensional sheet Further information
Sandwich plate	HSZ 22 B452-3X/ A00M00 R900785382		160 x 117 x 20 2.7 kg	R900785370
Sandwich plate	HSZ 22 B452-3X/ B00M00 R900785411		160 x 117 x 20 2.7 kg	R900785370
Sandwich plate	HSZ 22 B452-3X/ P00M00 R900785418		160 x 117 x 20 2.7 kg	R900785370
Sandwich plate	HSZ 22 B452-3X/ T00M00 R900785417		160 x 117 x 20 2.7 kg	R900785370
Sandwich plate	HSZ 22 B452-3X/ X00M00 R900785419		160 x 117 x 20 2.7 kg	R900785370
Sandwich plate	HSZ 22 B452-3X/ Y00M00 R900785420		160 x 117 x 20 2.7 kg	R900785370
Sandwich plate	HSZ 22 B452-3X/ X00Y00M00 R900785421		160 x 117 x 20 2.7 kg	R900785370

Spacer plates with port (① = component side, ② = plate side)

Component designation	Type designation Material no.	Symbol	Plate L x W x H Weight Size of ports	Dimensional sheet Further information
Sandwich plate	HSZ 22 B036-3X/M01 R900901980		160 x 117 x 40 5.4 kg Side E A, T, X G1/4 Side F B, P, Y G1/4	R900266840
Sandwich plate	HSZ 22 B021-3X/M01 R900900605		170 x 117 x 80 11.6 kg Side F P G1 1/2	R900266623
Sandwich plate	HSZ 22 B065-3X/M01 R900547682		170 x 117 x 80 11.5 kg Side E T G1 1/2 Side F P G1 1/2	R900255851
Sandwich plate	HSZ 22 B048-3X/M01 R900533129		170 x 117 x 80 11.5 kg Side E A G1 1/2 Side F B G1 1/2	R900265145

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

Component designation	Type designation Material no.	Symbol	Plate L x W x H Weight Size of ports	Dimensional sheet Further information
Sandwich plate	HSZ 22 B061-3X/M00 R900910922		160 x 117 x 110 15.0 kg	R900268465

Function group, isolating function

Example: HSZ 22 B

1

 – 3X/

11

2

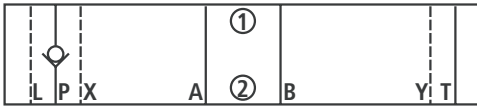
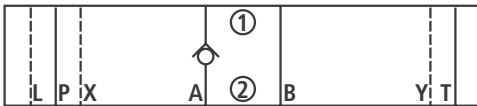
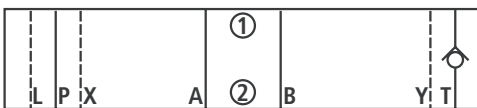
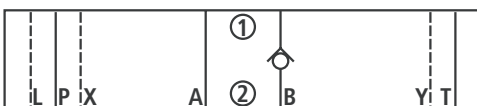
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Supplementary details on sandwich plates with integrated isolating function (complete units):

11		Cracking pressure of check valve type M-SR20..., M-SR25..., M-SR30... (cartridge)	0.5 bar	= 05
12.1		Cracking pressure of check valve type Z1S22...: (cartridge/sandwich plate)	Cracking pressure 0.5 bar	= 1
			Cracking pressure 3.0 bar	= 2
			Cracking pressure 5.0 bar	= 3
13		Cracking pressure of check valve type Z2S22...: (pilot operated)	Cracking pressure 3.0 bar	= 1
			Cracking pressure 5.0 bar	= 2
			Cracking pressure 7.5 bar	= 3
			Cracking pressure 10.0 bar	= 4
14		Type of seals: (other seals on enquiry)	NBR seals	= No code
			FKM seals	= V

Note: Observe compatibility of seals with hydraulic fluid used!

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

Component designation	Type designation Material no.	Symbol	Plate L x W x H Weight Size of ports	Dimensional sheet Further information
Sandwich plate	Z1S 22 P ^{12.1} -1X/ ¹⁴		155 x 115 x 55 6.4 kg	R900263207
Complete type designation according to page 6.				
Sandwich plate	Z1S 22 C ^{12.1} -1X/ ¹⁴		155 x 115 x 55 6.4 kg	R900263207
Complete type designation according to page 6.				
Sandwich plate	Z1S 22 T ^{12.1} -1X/ ¹⁴		155 x 115 x 55 6.4 kg	R900263207
Complete type designation according to page 6.				
Sandwich plate	Z1S 22 D ^{12.1} -1X/ ¹⁴		155 x 115 x 55 6.4 kg	R900263207
Complete type designation according to page 6.				

Order example of complete unit: Z1S 22 P ^{12.1}-1X/¹⁴

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

Component designation	Type designation Material no.	Symbol	Plate L x W x H Weight Size of ports	Dimensional sheet Further information
Sandwich plate	HSZ 22 B184-3X/05M00 R900724088		290 x 117 x 140 34.4 kg	R900724546
Sandwich plate fitted with:				
Check valve (cartridge)	M-SR 25 KE05-1X/□ ¹⁴			RE 20380
Sandwich plate	HSZ 22 B187-3X/05M00 R900902917		225 x 117 x 140 26.7 kg	R900263130
Sandwich plate fitted with:				
Check valve (cartridge)	M-SR 25 KE05-1X/□ ¹⁴			RE 20380
Sandwich plate	HSZ 22 B330-3X/05-⁵¹ D □ M00		225 x 117 x 140 26.7 kg	R900263129
Sandwich plate fitted with:				
Check valve (cartridge)	M-SR 25 KE05-1X/□ ¹⁴ DUESE □ M8x1-DIN906 ⁵¹			RE 20380 RN 115.06
For material no., see page 24				
Sandwich plate	HSZ 22 B200-3X/05M00 R901010313		210 x 117 x 80 14.2 kg	R900266409
Sandwich plate fitted with:				
Check valve (cartridge)	M-SR 20 KE05-1X/□ ¹⁴			RE 20380
Sandwich plate	HSZ 22 B181-3X/05M01 R900959272		240 x 117 x 120 24.4 kg	R900277608
Sandwich plate fitted with:				
Check valve (cartridge)	M-SR 30 KE05-1X/□ ¹⁴		Side F P G1	RE 20380

Order example

of complete unit: **HSZ 22 B200-3X/**¹¹**05**²**M**³**00**

of complete unit: **HSZ 22 B330-3X/**¹¹**05**⁵¹**-D**²**08**³**M**⁰⁰
Complete type designation according to page 6.

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

Component designation	Type designation Material no.	Symbol	Plate L x W x H Weight Size of ports	Dimensional sheet Further information
Sandwich plate	¹³ Z2S 22 A□-5X/ ¹⁴ SO40		210 x 117 x 100 12 kg Side F X G1/4	RE 21564
Complete type designation according to page 6.				
Sandwich plate	¹³ Z2S 22 B□-5X/ ¹⁴ SO40		210 x 117 x 100 12 kg Side E X G1/4	RE 21564
Complete type designation according to page 6.				
Sandwich plate	¹³ Z2S 22 A□-5X/ ¹⁴ SO60		210 x 117 x 100 12 kg	RE 21564
Complete type designation according to page 6.				
Sandwich plate	¹³ Z2S 22 B□-5X/ ¹⁴ SO60		210 x 117 x 100 12 kg	RE 21564
Complete type designation according to page 6.				
Sandwich plate	¹³ HSZ 22-31029-BA/ G24NK4M01 R900782835		230 x 140 x 210 67.3 kg Side A MA, MB, X G1/4	R900782917
Sandwich plate fitted with: Check valve, pilot operated 4/2 directional valve	SL 30 PA2-4X/ 4WE 6 D6X/ EG24N9K4		230 x 140 x 210 67.3 kg Side A MA, MB, X G1/4	RE 21468 RE 23178 SL valves on side E and F Directional valve on side A
(Deviations require different type designation and material no.)				
Thread M12 x 1.5 provided in channel X				

Function group, pressure function

Example: **HSZ 22 B** 1 – **3X/** 15 16 2 3

Supplementary details for sandwich plates with integrated pressure function (complete units):

14 	Type of seal: (other seals on enquiry)	NBR seals FKM seals	= No code = V	1) Please observe installation dimensions!
15 	Adjustment element on pressure relief valve type DBD.30...:	Set screw with hexagon and protective cap Rotary knob Lockable rotary knob	= S = H ¹⁾ = A ¹⁾	
16 	Pressure setting on pressure relief valve type DBD.30...:	up to 25 bar up to 50 bar up to 100 bar up to 200 bar up to 315 bar	= 25 (025) = 50 (050) = 100 = 200 = 315	
37 	Adjustment element on pressure reducing valve type DR 20..., DR 30...:	Rotary knob Sleeve with hexagon and protective cap Lockable rotary knob with scale Rotary knob with scale	= 4 = 5 = 6 = 7	
38 	Pressure setting on pressure reducing valve type DR 20..., DR 30...:	Secondary pressure up to 50 bar up to 100 bar up to 200 bar up to 315 bar	= 50 (050) = 100 = 200 = 315	
40 	Check valve in pressure reducing valve type DR 20..., DR 30...:	with check valve without check valve	= No code = M	

Note: Code () for complete type!

Note: Code () for complete type!

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

Component designation	Type designation Material no.	Symbol	Plate L x W x H Weight Size of ports	Dimensional sheet Further information
Sandwich plate	HSZ 22 B100-3X/ ^{15 16} M00		280 x 117 x 100 24.8 kg	R900266083
Sandwich plate fitted with: Pressure relief valve, direct operated	¹⁵ DBD ^{16 14} 30 K1X/ M00			RE 25402 DBD on side E
Sandwich plate	HSZ 22 B106-3X/ ^{15 16} M00		290 x 117 x 120 30.5 kg	R900264686
Sandwich plate fitted with: Pressure relief valve, direct operated	¹⁵ DBD ^{16 14} 30 K1X/ M00			RE 25402 DBD on side E
Sandwich plate	HSZ 22 B107-3X/ ^{15 16} M00		290 x 117 x 120 30.5 kg	R900264581
Sandwich plate fitted with: Pressure relief valve, direct operated	¹⁵ DBD ^{16 14} 30 K1X/ M00			RE 25402 DBD on side E
Sandwich plate	HSZ 22 B139-3X/ ^{15 16} M00		245 x 117 x 210 45.6 kg	R900278105
Sandwich plate fitted with: Pressure relief valve, direct operated	¹⁵ DBD ^{16 14} 30 K1X/ M00		Side F T G1/4	RE 25402 2 x DBD on side E
Sandwich plate	HSZ 22 B105-3X/A ^{15 16} -B ^{15 16} M00		360 x 117 x 120 38.6 kg	R900265073
Sandwich plate fitted with: Pressure relief valve, direct operated	¹⁵ DBD ^{16 14} 30 K1X/ M00			RE 25402 DBD on side E and F
Sandwich plate	HSZ 22 B108-3X/A ^{15 16} -B ^{15 16} M00		390 x 117 x 120 41.7 kg	R900266622
Sandwich plate fitted with: Pressure relief valve, direct operated	¹⁵ DBD ^{16 14} 30 K1X/ M00			RE 25402 DBD on side E and F

Order example

 of complete unit with **two** pressure relief valves: HSZ 22 B105-3X/A^{15 16}_S^{16 200}-B^{15 16}_S^{16 200}_M^{2 3}₀₀

Complete type designation according to page 10.

protected channel

Pressure reducing valves, pilot operated (DR valves size 20) (① = component side, ② = plate side)

Component designation	Type designation Material no.	Symbol	Plate L x W x H Weight Size of ports	Dimensional sheet Further information
Sandwich plate Sandwich plate fitted with: Pressure reducing valve, pilot operated	HSZ 22 B563-3X/ 37 38 □-□M01 DR 20-□-5X/□YM□ 37 38 14		210 x 117 x 150 32.0 kg Side F P G1/4	R900265747 RE 26892 DR on side E Port Y plugged pressure-tight
Sandwich plate Sandwich plate fitted with: Pressure reducing valve, pilot operated	HSZ 22 B563-3X/ 37 38 □-□YM01 DR 20-□-5X/□YM□ 37 38 14		210 x 117 x 150 32.0 kg Side F P, Y G1/4	R900265747 RE 26892 DR on side E
Sandwich plate Sandwich plate fitted with: Pressure reducing valve, pilot operated	HSZ 22 B573-3X/ 37 38 40 □-□□M01 DR 20-□-5X/□Y□□ 37 38 40 14		210 x 117 x 150 32.0 kg Side F A G1/4	R900265840 RE 26892 DR on side E Port Y plugged pressure-tight
Sandwich plate Sandwich plate fitted with: Pressure reducing valve, pilot operated	HSZ 22 B573-3X/ 37 38 40 □-□Y□M01 DR 20-□-5X/□Y□□ 37 38 40 14		210 x 117 x 150 32.0 kg Side F A, Y G1/4	R900265840 RE 26892 DR on side E
Sandwich plate Sandwich plate fitted with: Pressure reducing valve, pilot operated	HSZ 22 B574-3X/ 37 38 40 □-□□M01 DR 20-□-5X/□Y□□ 37 38 40 14		210 x 117 x 150 32.0 kg Side E B G1/4	R900267524 RE 26892 DR on side F Port Y plugged pressure-tight

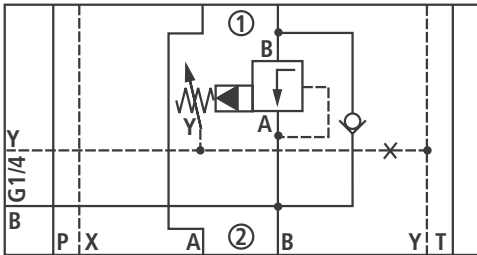
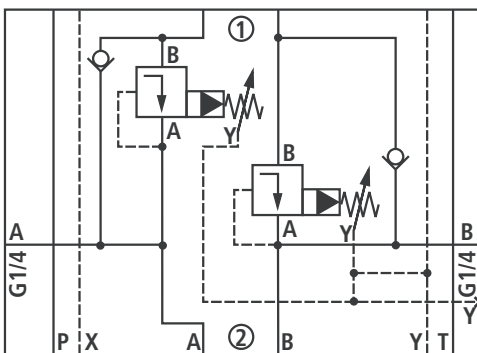
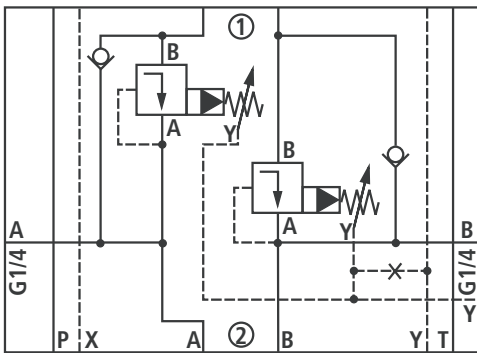
Pressure reducing valves, pilot operated (DR valves size 20) (① = component side, ② = plate side)

Component designation	Type designation Material no.	Symbol	Plate L x W x H Weight Size of ports	Dimensional sheet Further information
Sandwich plate Sandwich plate fitted with: Pressure reducing valve, pilot operated	HSZ 22 B574-3X/ 37 38 40 □-□Y□M01 DR 20-□-5X/□Y□□		210 x 117 x 150 32.0 kg Side E B, Y G1/4	R900267524 RE 26892 DR on side F
Sandwich plate Sandwich plate fitted with: Pressure reducing valve, pilot operated	HSZ 22 B575-3X/A 37 38 37 38 40 □-□-B□-□□M01 DR 20-□-5X/□Y□□		220 x 117 x 160 40.5 kg Side E A G1/4 Side F B G1/4	R900265841 RE 26892 DR on side E and F Port Y plugged pressure-tight
Sandwich plate Sandwich plate fitted with: Pressure reducing valve, pilot operated	HSZ 22 B575-3X/A 37 38 37 38 40 □-□-B□-□Y□M01 DR 20-□-5X/□Y□□		220 x 117 x 160 40.5 kg Side E A G1/4 Side F B, Y G1/4	R900265841 RE 26892 DR on side E and F

Pressure reducing valves, pilot operated (DR valves size 30) (① = component side, ② = plate side)

Component designation	Type designation Material no.	Symbol	Plate L x W x H Weight Size of Ports	Dimensional sheet Further information
Sandwich plate Sandwich plate fitted with: Pressure reducing valve, pilot operated	HSZ 22 B558-3X/ 37 38 □-□M01 DR 30-□-5X/□YM□ 37 38 14		200 x 120 x 151 34.3 kg Side E P G1/4	R900263198 RE 26892 DR on side F Port Y plugged pressure-tight
Sandwich plate Sandwich plate fitted with: Pressure reducing valve, pilot operated	HSZ 22 B558-3X/ 37 38 □-□YM01 DR 30-□-5X/□YM□ 37 38 14		200 x 120 x 151 34.3 kg Side E P, Y G1/4	R900263198 RE 26892 DR on side F
Sandwich plate Sandwich plate fitted with: Pressure reducing valve, pilot operated	HSZ 22 B561-3X/ 37 38 40 □-□□M01 DR 30-□-5X/□Y□□ 37 38 40 14		200 x 120 x 151 34.3 kg Side F A G1/4	R900263196 RE 26892 DR on side E Port Y plugged pressure-tight
Sandwich plate Sandwich plate fitted with: Pressure reducing valve, pilot operated	HSZ 22 B561-3X/ 37 38 40 □-□Y□M01 DR 30-□-5X/□Y□□ 37 38 40 14		200 x 120 x 151 34.3 kg Side F A, Y G1/4	R900263196 RE 26892 DR on side E
Sandwich plate Sandwich plate fitted with: Pressure reducing valve, pilot operated	HSZ 22 B571-3X/ 37 38 40 □-□□M01 DR 30-□-5X/□Y□□ 37 38 40 14		200 x 120 x 151 34.3 kg Side E B G1/4	R900255781 RE 26892 DR on side F Port Y plugged pressure-tight

Pressure reducing valves, pilot operated (DR valves size 30) (① = component side, ② = plate side)

Component designation	Type designation Material no.	Symbol	Plate L x W x H Weight Size of ports	Dimensional sheet Further information
Sandwich plate	HSZ 22 B571-3X/ 37 38 40 □-□Y□M01		200 x 120 x 151 34.3 kg Side E B, Y G1/4	R900255781 RE 26892 DR on side F
Sandwich plate fitted with: Pressure reducing valve, pilot operated	37 38 40 14 DR 30-□-5X/□Y□□			
Sandwich plate	HSZ 22 B560-3X/A 37 38 37 38 40 □-□-B□-□□M01		240 x 120 x 190 55.7 kg Side E A G1/4 Side F B G1/4	R900263197 RE 26892 DR on side E and F Port Y plugged pressure-tight
Sandwich plate fitted with: Pressure reducing valve, pilot operated	37 38 40 14 DR 30-□-5X/□Y□□			
Sandwich plate	HSZ 22 B560-3X/A 37 38 37 38 40 □-□-B□-□Y□M01		240 x 120 x 190 55,7 kg Side E A G1/4 Side F B, Y G1/4	R900263197 RE 26892 DR on side E and F
Sandwich plate fitted with: Pressure reducing valve, pilot operated	37 38 40 14 DR 30-□-5X/□Y□□			

Order example

of complete unit with **one** pressure reducing valve: HSZ 22 B563-3X/[5]-[100]-[M]-[M]-[01]

of complete unit with **two** pressure reducing valves : HSZ 22 B575-3X/A[5]-[100]-B[5]-[200]-[M]-[M]-[01]

Complete type designation according to page 10.

protected channel

Function group, combined pressure and isolating function

Example of load lowering function: **HSZ 22 B**

1

 - **3X/L**

39

45

2

3

Supplementary details for sandwich plates with integrated pressure and isolating function (complete units):

15		Adjustment element on pressure relief valve type DBD.20..., DBD.30...:	Set screw with hexagon and protective cap	= S	1) Please observe installation dimensions!
			Rotary knob	= H 1)	
			Lockable rotary knob	= A 1)	
16		Pressure setting on pressure relief valve type DBD.20..., DBD.30...: Note: Code () for complete type!	up to 25 bar	= 25 (025)	
			up to 50 bar	= 50 (050)	
			up to 100 bar	= 100	
			up to 200 bar	= 200	
			up to 315 bar	= 315	
14		Type of seal: (other seals on enquiry)	NBR seals	= No code	
			FKM seals	= V	
		Note: Observe compatibility of seals with hydraulic fluid used!			
44		Opening ratio of load lowering valve:	Opening ratio 4.5 : 1 for systems with variable load conditions and structure-related fluctuations	= G (standard)	
			Opening ratio 10 : 1 for systems with relatively constant load (other opening ratios on enquiry)	= H	
39		Adjustment range	70 to 175 bar (setting 140)	= K	
			140 to 350 bar (setting 210)	= J	
45		Opening ratio	4.5 : 1	= 4	
			10 : 1	= 10	

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

Component designation	Type designation Material no.	Symbol	Plate L x W x H Weight Size of ports	Dimensional sheet Further information
Sandwich plate Sandwich plate fitted with: Pressure relief valve, direct operated Check valve (cartridge)	HSZ 22 B216-3X/ ^{15 16} ☐ ☐ M01 DBD ¹⁵ ☐ 30 K1X/ ^{16 14} ☐ ☐ M-SR 25 KE05-1X/ ¹⁴ ☐		290 x 117 x 120 30.5 kg Side E A G1/4	R900264618 RE 25402 DBD on side E RE 20380
Sandwich plate Sandwich plate fitted with: Pressure relief valve, direct operated Check valve (cartridge)	HSZ 22 B218-3X/ ^{15 16} ☐ ☐ M01 DBD ¹⁵ ☐ 30 K1X/ ^{16 14} ☐ ☐ M-SR 25 KE05-1X/ ¹⁴ ☐		290 x 117 x 120 30.5 kg Side E B G1/4	R900264566 RE 25402 DBD on side F RE 20380

Order example of complete unit: HSZ 22 B218-3X/^{15 16 2 3}☐ ☐ ☐ ☐

Sandwich plate Sandwich plate fitted with: Pressure relief valve, direct operated Check valve (cartridge)	HSZ 22 B217-3X/ ^{15 16 15 16} ☐ ☐ - ☐ ☐ M01 DBD ¹⁵ ☐ 30 K1X/ ^{16 14} ☐ ☐ M-SR 25 KE05-1X/ ¹⁴ ☐		400 x 117 x 140 49.5 kg Side E A G1/4 Side F B G1/4	R900239395 RE 25402 DBD on side E and F RE 20380
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Order example of complete unit: HSZ 22 B217-3X/A^{15 16 15 16 2 3}☐ ☐ - ☐ ☐ ☐ ☐

protected channel

Complete type designation according to page 16.

Pressure relief/anti-cavitation function (① = component side, ② = plate side)

Component designation	Type designation Material no.	Symbol	Plate L x W x H Weight Size of ports	Dimensional sheet Further information
Sandwich plate Sandwich plate fitted with: Pressure relief valve, direct operated Check valve (cartridge)	HSZ 22 B214-3X/ 15 16 15 16 A□□-B□□M01 15 16 14 DBD□ 20 K1X/□□ 14 M-SR 25 KE05-1X/□		345 x 117 x 140 42.0 kg Side E Side F A B G1/4 G1/4	R900276537 RE 25402 DBD on side E and F RE 20380
Sandwich plate Sandwich plate fitted with: Pressure relief valve, direct operated Check valve (cartridge)	HSZ 22 B590-3X/ 15 16 15 16 A□□-B□□M01 15 16 14 DBD□ 30 K1X/□□ 14 M-SR 30 KE05-1X/□		325 x 117 x 240 68.0 kg Side E Side F A B G1/4 G1/4	R900273785 RE 25402 DBD on side E and F RE 20380
Sandwich plate Sandwich plate fitted with: Pressure relief valve, direct operated Check valve (cartridge)	HSZ 22 B207-3X/ 15 16 15 16 A□□-B□□M00 15 16 14 DBD□ 20 K1X/□□ 14 M-SR 20 KE05-1X/□		240 x 117 x 130 27.5 kg	R900262897 RE 25402 DBD on side E and F RE 20380
Sandwich plate Sandwich plate fitted with: Pressure relief valve, direct operated Check valve (cartridge)	HSZ 22 B582-3X/ 15 16 15 16 A□□-B□□M00 15 16 14 DBD□ 30 K1X/□□ 14 M-SR 20 KE05-1X/□		390 x 117 x 160 54.0 kg	R900270358 RE 25402 DBD on side E and F RE 20380

 Order example of complete unit: **HSZ 22 B214-3X/A**¹⁵¹⁶¹⁵¹⁶²³**S**³¹⁵**-B**¹⁵¹⁶²³**S**³¹⁵**M**⁰¹

protected channel

Complete type designation according to page 16.

Pressure relief/anti-cavitation function (① = component side, ② = plate side)

Component designation	Type designation Material no.	Symbol	Plate L x W x H Weight Size of ports	Dimensional sheet Further information
Sandwich plate Sandwich plate fitted with: Pressure relief valve, direct operated Check valve (cartridge)	HSZ 22 B222-3X/ ¹⁵ ¹⁶ ☐ ☐ M01 ¹⁵ ¹⁶ ¹⁴ DBD ☐ 30 K1X/ ☐ ☐ ¹⁴ M-SR 30 KE05-1X/ ☐		300 x 120 x 180 46.0 kg Side E Side F A B G1/4 G1/4	R901007254 RE 25402 DBD on side E RE 20380

Order example of complete unit: **HSZ 22 B222-3X/**¹⁵_S¹⁶₁₀₀²_M³₀₁

Complete type designation according to page 16.

Load lowering function (complete unit) (① = component side, ② = plate side)

Component designation	Type designation Material no.	Symbol	Plate L x W x H Weight Size of ports	Dimensional sheet Further information
Sandwich plate Sandwich plate fitted with: SENKBREMSVENTIL CBI ☐ -L ☐ N	HSZ 22 B430-3X/L 39 45 ☐ ☐ M01		250 x 117 x 140 30.0 kg Side F A G1/4	R901001247 RE 18115-09 RE 18115-13 CBG on side E
Sandwich plate Sandwich plate fitted with: SENKBREMSVENTIL CBI ☐ -L ☐ N	HSZ 22 B431-3X/L 39 45 ☐ ☐ M01		250 x 117 x 140 30.0 kg Side E B G1/4	R900720707 RE 18115-09 RE 18115-13 CBG on side F

Order example
of complete unit with one load lowering valve: HSZ 22 B430-3X/L

39 45 2 3

☐ ☐ ☐ ☐ K 4 M 01

Pre-loading of check valve = 2 bar
Not suitable for use with a proportional directional valve and for regenerative circuits (please consult us!)
For further technical information, see RE 18115-01.
Complete type designation according to page 16.

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

Component designation	Type designation Material no.	Symbol	Plate L x W x H Weight Size of ports	Dimensional sheet Further information
Sandwich plate Sandwich plate fitted with DUESE ☐ R1/2-DIN906 For material no., see page 24	HSZ 22 B085-3X/ ⁵⁴ A ☐ M00		160 x 117 x 20 2.7 kg	R900786367 RN 115.06
Sandwich plate Sandwich plate fitted with DUESE ☐ R1/2-DIN906 For material no., see page 24	HSZ 22 B085-3X/ ⁵⁴ B ☐ M00		160 x 117 x 20 2.7 kg	R900786367 RN 115.06
Sandwich plate Sandwich plate fitted with DUESE ☐ R1/2-DIN906 For material no., see page 24	HSZ 22 B085-3X/ ⁵⁴ P ☐ M00		160 x 117 x 20 2.7 kg	R900786367 RN 115.06
Sandwich plate Sandwich plate fitted with DUESE ☐ R1/2-DIN906 For material no., see page 24	HSZ 22 B085-3X/ ⁵⁴ T ☐ M00		160 x 117 x 20 2.7 kg	R900786367 RN 115.06

Order example

of complete unit with 0.8 mm orifice in channel A: **HSZ 22 B085-3X/A** ⁵⁴☐ ²☐ ³☐

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

Component designation	Type designation Material no.	Symbol	Plate L x W x H Weight Size of ports	Dimensional sheet Further information
Sandwich plate HSZ 22-26679-AC/ G24N9K4M01 R900723039 Sandwich plate fitted with: LC 25 A40D7X/-004 LFA 25 D19-7X/ LFA 25 GWA-7X/A10P10T10 M-3SED 6 UK1X/350CG24N9K4 (Deviations require different type designation and material no.)			260 x 117 x 150 45 kg Side C MA, MB G1/4	R900723913 RE 21010 RE 21010 RE 21010 RE 22049 Logics on side E and F Pilot oil from X-channel Drain oil in Y-channel
Sandwich plate HSZ 22-26733-AA/ G24N9K4M01 R900957409 Sandwich plate fitted with: LC 32 A20E7X/ LFA 32 WEA-7X/A10 4WE 6 D6X/EG24N9K4 (Deviations require different type designation and material no.)			240 x 117 x 160 38 kg Side F P G1/4	R900277281 RE 21010 RE 21010 RE 23178 Logic on side F
Sandwich plate HSZ 22-26764-AA/ HM00 R900970000 Sandwich plate fitted with: LC 32 DB20D7X/ LFA 32 DB2-7X/315 (Deviations require different type designation and material no.)			280 x 130 x 180 55 kg	R900279564 RE 21050 RE 21050 Logics on side E and F

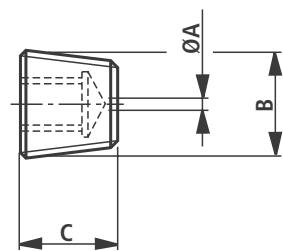
Logic functions (① = component side, ② = plate side)

Component designation	Type designation Material no.	Symbol	Plate L x W x H Weight Size of ports	Dimensional sheet Further information
Sandwich plate Sandwich plate fitted with: LC 32 A10D7X/ LFA 32 WEA-7X/A10P10 M-3SEW 6 C3X/420MG24N9K4 M-SR 25 KE05-1X/ (Deviations require different type designation and material no.)	HSZ 22-26779-AA/ G24N9K4M00 R900973219		270 x 130 x 150 43.3 kg	R900239440 RE 21010 RE 21010 RE 22058 RE 20380 Logics on side E
Sandwich plate Sandwich plate fitted with: LC 32 DB40E7X/ LFA 32 DR2-7X/210 M-SR 8 KE05-1X/ (Deviations require different type designation and material no.)	HSZ 22-26531-CA/ HM01 R900617404		245 x 130 x 160 37.5 kg Side E MP G1/4	R900617406 RE 21050 RE 21050 RE 20380 Logic on side F

Orifices, seals

Form 7 (RN 115.06)

Plug screw to DIN 906



Note:

Code () for complete type.

	50	51	52	53	54
B	M6	M8 x 1	R1/8	R3/8	R1/2
C	6	8	8	10	10
ØA	Material no.				
0.6 (06)	R900157934	R900149430	R900159145	–	–
0.7 (07)	R900157931	R900143957	–	–	–
0.8 (08)	R900152276	R900136843	R900144212	R900159043	R900691565
0.9 (09)	R900695625	R900643104	–	–	–
1.0 (10)	R900149335	R900136842	R900135607	R900159033	R900139115
1.1 (11)	R900645667	R900144763	–	–	–
1.2 (12)	R900152286	R900139101	R900146270	R900159032	R900150714
1.3 (13)	R900152291	R900144762	R900891295	R900163839	–
1.4 (14)	R900171199	R900158791	R900135606	–	–
1.5 (15)	R900148823	R900133712	R900144910	R900159031	R900139117
1.8 (18)	R900157932	R900150953	R900142840	R9001590301	R900159026
2.0 (20)	R900156650	R900137299	R900155897	R900159029	R900148352
2.5 (25)	R900157929	R900137445	R900148351	R900146259	R900148353
3.0 (30)	R900181894	R900144761	R900111282	R900149044	R900148361
3.5 (35)	–	–	–	R900146258	–
4.0 (40)	–	–	–	R900149052	R900644450
4.5 (45)	–	–	–	–	R900635896
5.0 (50)	–	–	–	R900152287	R900143775
6.0 (60)	–	–	–	R900135774	R900147875
6.5 (65)	–	–	–	–	R900173555
7.0 (70)	–	–	–	R900152289	–
7.5 (75)	–	–	–	R900137643	–
8.0 (80)	–	–	–	R900626397	R900159028
10.0 (100)	–	–	–	–	R900626653

Seal kit – plate:

Seal material	Material no.
NBR	R900853079
FKM	R901010970