

Electric Drives
and Controls

Hydraulics

Linear Motion and
Assembly Technologies

Pneumatics

Service

Rexroth
Bosch Group

Cover plates

Porting patterns to DIN 24340 form A and J4,
ISO 4401,
plugs and plug screws for valve bores

RE 48042/10.05
Replaces: 01.03

1/20

Type HSA

Size 4 to 35
Component series 3X and 4X
Maximum operating pressure 315 bar

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Features

- Cover plates for reserve stations on multi-station manifold plates, vario-plates and control plates
- Interconnecting and flushing functions
- Boost and measuring functions
- End plates with valves
- Max. operating pressure
 - Without valve function: 315 bar
 - With valve function: max. 315 bar
(depending on valves fitted)
- Weight indications include valves integrated or mounted

Explanation of type code for cover plates HSA... (for types without valves)

HSA

1	2	3
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 -3X/

4	5	6
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1	Size	= 04, 05, 06, 10, 16, 20, 22, 30, 32, 35	} Porting pattern type
2	Porting pattern	= Form A, B, D, E, F, G, H, J	
3	Serial number of function version from 001 ... 999 (determined by the factory)		
4	Type of seal:	NBR seals = M FKM seals = V (other seals on enquiry)	
⚠ Caution! Observe compatibility of seals with hydraulic fluid used!			
5	Type of connection:	No external connection = 00 Connection to DIN 3852 part 1 with thread to DIN ISO 228 (Whitworth thread) = 01	
6	Further details in clear text		

- For circuits and versions other than those given in the data sheet, please consult us!
- Connection threads are always closed pressure-tight.
- Fixing screws (socket head cap screws DIN 912-10.9) are included in the scope of supply and listed with the relevant component

- For circuits and versions other than those given in the data sheet, please consult us!
- Connection threads are always closed pressure-tight.
- Fixing screws (socket head cap screws DIN 912-10.9) are included in the scope of supply and listed with the relevant component

Order examples

Cover plate **without** valves (page 6):

Material no.	Type designation
R900316232	HSA 06 A001-3X/M00

The material no. includes the ready-to-install cover plate.

Cover plate **with** valves (page 8):

Material no.	Type designation
R900558067	HSA 06 A054-3X/ ¹⁵ S ¹⁶ 050M00

The material no. includes the ready-to-install cover plate with pressure relief valve type DBDS 6 K1X/50, material no. R900423727.

Components and associated porting pattern types

Component designation	Data sheet no.	Porting pattern type	Component designation	Data sheet no.	Porting pattern type	
.WE 4 .1X/...	23160	04A	4WEH 10 ..4X/...	24751	10B	
HED 8 OH1X/...	50060	04J	H-4WEH 10 ..4X/...			
F 5 P3-3X/...	27761	05G	4WH 10 ..4X/...			
			H-4WH 10 ..4X/...			
SV 6 PB.-6X/...	21460	06A	4WRGE 10 ...-1X/...	29070		
SL 6 PB.-6X/...			4WRTE 10 ...-4X/...	29083		
M-.SED 6 .1X/350...	22049		4WRDE 10 ...-5X/...	29093		
M-.SEW 6 .3X/420...	22058		4WRZ 10 ..-7X/...	29115		
.WM. 6 .5X/...	22280		3DRE. 10 P5X/...	29185		
.W. 6 .5X/...	22282		4WS. 2E. 10-5X/...	29583		
.WMR. 6 ..-5X/...	22284				10D	
.WE 6 .6X/...	23178		SV 10 P.-4X/...	21468		
.WE 6 ..-6X/...	23183		SL 10 P.-4X/...			
DZ 6 DP.-5X/...	26076		DZ 10 DP.-4X/...	26099		
DA 6 V.-4X/...	26404		DZ 10 ..-5X/...	26391		
DR 6 DP.-5X/...	26564		DR 10 DP.-4X/...	26580		
2FRM 6 ...-3X/...	28163		DR 10 ..-5X/...	26892		
4WRA 6 ..-2X/...	29055		DR 10 ..-4X/...	26893		
4WRE 6 ..-2X/...	29061					
4WRS 6 ..-3X/...	29067		FD 12 PA2X/...	27551		
DBE. 6 ..-1X/...	29158		FD 16 PA2X/...			
DBEP 6 .06-1X/...	29164		DRG 10 -1X/...	29145		
			DRE 10 -5X/...	29176		
			DREM 10 -5X/...			
DBET . -5X/...	29165		DB 10 ..-5X/...	25802	10E	
DBEMT . -5X/...			DBW 10 ..-5X/...			
DBETR - 2X/...	29168		DB 10 ..-4X/...W65	25818		
DRE 6 ..-1X/...	29175		DB3U 10 ..5X/...	25826		
3DREP 6 .2X/...	29184		DBG 10 -1X/...	29139		
2FRE 6 ..-2X/...	29188	DBE. 10 -5X/...	29160			
4WS2EM 6 -2X/...	29564	DBEM. 10 -5X/...				
M-.SED 10 .1X/350...	22045	4WS2E. 10 -4X/...	29586	10F		
M-.SEW 10 .1X/420...	22075	4WSE2E. 10 -4X/...				
.WM. 10 .3X/...	22331	3DS2EH 10 -2X/...	29646			
.WE 10 ..-3X/...	23183	3DSE2EH 10 -2X/...				
5-.WE 10 .3X/...	23351	2FRM 10 -3X/...	28389	10G		
4WRA. 10 ..-2X/...	29055	2FRH 10 -3X/...				
4WRE 10 ..-2X/...	29061	2FRW 10 -3X/...				
.WE 10 .3X...	23327	2FRE 10 -4X/...	29190	10H		
		DBC 10 ..-5X/...	25802			
		DBC 30 ..-5X/...				
		DBC3U 10 ..5X/...	25826			
		DBC3U 30 ..5X/...				
		DZC 30 ..-5X/...	26391			
		DAC 30 ..-5X/...	26411			
		DRC 30 ..-5X/...	26892			
		DBGC 30 -1X/...	29139			
		DRECH 30 -4X/...	29178			

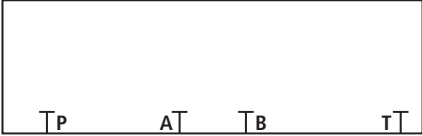
Components and associated porting pattern types

Component designation	Data sheet no.	Porting pattern type	Component designation	Data sheet no.	Porting pattern type
H-4WMM 16 ..7X/...	22371	16B	H-4WMM 22 ..7X/...	22371	22B
4WEH 16 ..6X/...	24751		4WEH 22 ..7X/...	24751	
H-4WEH 16 ..6X/...			H-4WEH 22 ..7X/...		
4WH 16 ..6X/...			H-4WH 22 ..7X/...		
H-4WH 16 ..6X/...			H-4WEH 25 ..6X/...		
4WRGE 16 ...-1X/...	29070		H-4WH 25 ..6X/...		
4WRTE 16 ...-4X/...	29083		4WRGE 25 ...-1X/...		
4WRDE 16 ...-5X/...	29093		4WRTE 25 ...-4X/...	29083	
4WRDU 16 ...-5X/...			4WRDE 25 ...-5X/...	29093	
4WRH 16 ...-7X/...	29115		4WRDU 25 ...-5X/...	29093	
4WRZ 16 ...-7X/...			4WRH 25 ...-7X/...		
3DRE 16 P 4X/...	29185		4WRZ 25 ...-7X/...	29115	
3DREM 16 P 4X/...			4WSE3EE 25 -2X/...		
4WS2E. 16 -2X/...	29591	SV 30 P..-4X/...	21468		
4WSE2E. 16 -2X/...		SL 30 P..-4X/...			
4WSE3EE 16 -1X/...	29595	DZ 30 ...-5X/...	26391		
2FRM 16 -3X/...	28389	DR 30 ...-5X/...		26892	
2FRH 16 -3X/...		FD 32 PA2X/...			27551
2FRW 16 -3X/...		DRG 30 -1X/...			
2FRE 16 -4X/...	29190	DRE.. 30 -4X/		29178	
SV 20 P..-4X/...	21468	20D	DB 30 ...-5X/...	25802	
SL 20 P..-4X/...			DBW 30 ...-5X/...		
DZ 20 ...-5X/...			DB3U 30 ..5X/...	25826	
DR 20 ...-5X/...			DBG 30 -1X/...	29139	
DR 20 ...-4X/...			DBE. 30 -3X/...	29142	
FD 25 PA2X/...			DBEM. 30 -3X/...		
DRG 20 -1X/...			29145	4WEH 32 ..6X/...	24751
DRE 20 -5X/...	29176		H-4WEH 32 ..6X/...		
DREM 20 -5X/			4WH 32 ..6X/...		
DB 20 ...-5X/...	20E	H-4WH 32 ..6X/...	29083		
DB 20 ...-4X/...W65		4WRTE 32 ...-4X/...			
DB3U 20 ..5X/...		4WRDE 32 ...-5X/...	29093		
DBG 20 -1X/...		4WRDU 32 ...-5X/...			
DBE. 20 -5X/...		29139	4WRH 32 ...-7X/...	29115	
DBEM. 20 -5X/...			4WRZ 32 ...-7X/...		
		29160	4WSE3EE 32 -4X/...	29595	
		4WRDE 35 ...-5X/...	29093		
		4WRDU 35 ...-5X/...		35B	

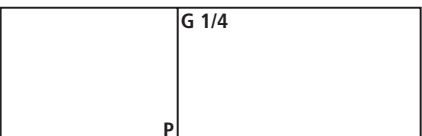
Note:

All components listed under one porting pattern type feature the same porting pattern.

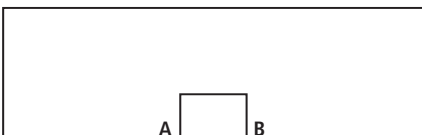
Cover plates for porting pattern type 04A (e.g.: .WE4 .1X/...)

Component designation	Type designation	Symbol	Plate L x W x H	Data sheet
	Material no.		Weight	Fixing screws
			Size of ports	Further information
Cover plate with R-ring plate	HSA 04 A001-1X/M00		54 x 36 x 31	R900265353
	R900535366		0.5 kg	4 off M5 x 40

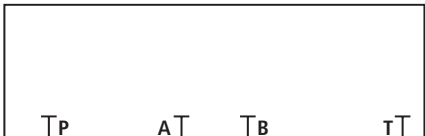
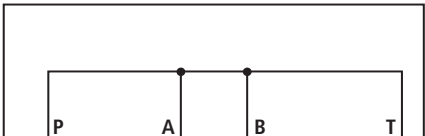
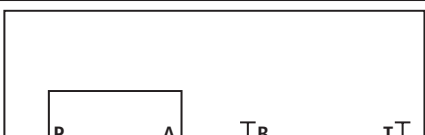
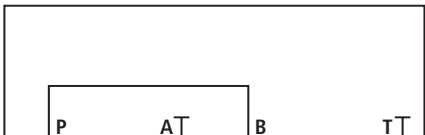
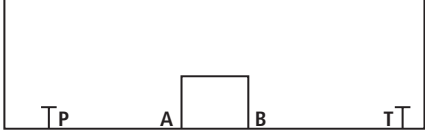
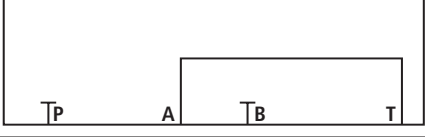
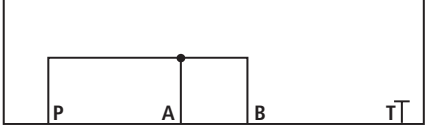
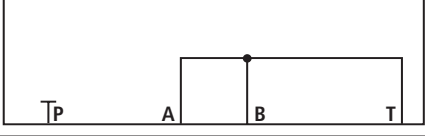
Cover plates for porting pattern type 04J (e.g.: HED 8 OH1X/...)

Component designation	Type designation	Symbol	Plate L x W x H	Data sheet
	Material no.		Weight	Fixing screws
			Size of ports	Further information
Cover plate	HSA 04 J021-3X/M01		40 x 40 x 23	R900259654
	R900548703		0.3 kg G 1/4	2 off M5 x 30

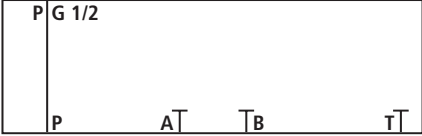
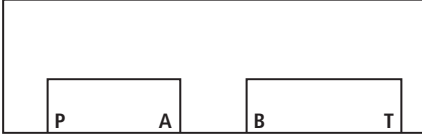
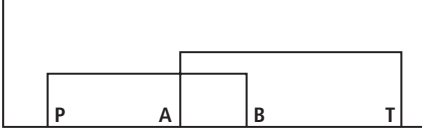
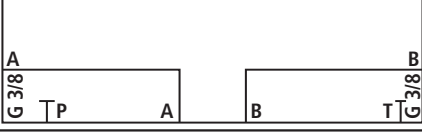
Cover plates for porting pattern type 05G (e.g.: F5 P3-3X/...)

Component designation	Type designation	Symbol	Plate L x W x H	Data sheet
	Material no.		Weight	Fixing screws
			Size of ports	Further information
Cover plate	HSA 05 G001-3X/M00		60 x 60 x 21	R900267876
	R900907655		0.5 kg	4 off M5 x 30
Cover plate	HSA 05 G006-3X/M00		60 x 60 x 21	R900267877
	R900907654		0.5 kg	4 off M5 x 30

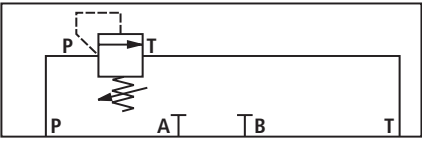
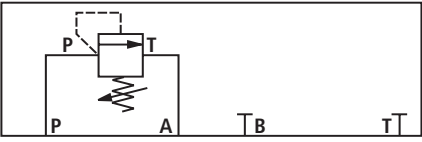
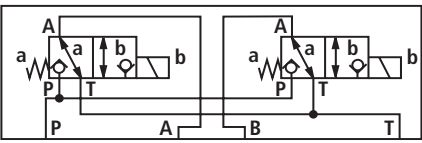
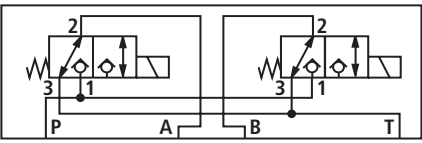
Cover plates for porting pattern type 06A (e.g.: 4WE 6 .6X/...)

Component designation	Type designation	Symbol	Plate L x W x H	Data sheet
	Material no.		Weight	Fixing screws
Cover plate with R-ring plate	HSA 06 A001-3X/M00		65 x 45 x 21	R900261207
	R900316232		0.5 kg	4 off M5 x 30
Cover plate	HSA 06 A005-4X/M00		65 x 44 x 31	R901092295
	R901092289		0.6 kg	4 off M5 x 40 Thread M8 x 1 in channels P, A, B, and T
Cover plate	HSA 06 A009-4X/M00		65 x 44 x 31	R901091844
	R901091838		0.6 kg	4 off M5 x 40
Cover plate	HSA 06 A024-4X/M00		65 x 44 x 31	R901092275
	R901092273		0.6 kg	4 off M5 x 40
Cover plate	HSA 06 A012-4X/M00		65 x 44 x 31	R901091849
	R901091847		0.6 kg	4 off M5 x 40
Cover plate	HSA 06 A006-4X/M00		65 x 44 x 31	R901092280
	R901092277		0.6 kg	4 off M5 x 40
Cover plate	HSA 06 A011-4X/M00		65 x 44 x 31	R901092343
	R901092342		0.6 kg	4 off M5 x 40
Cover plate	HSA 06 A004-4X/M00		65 x 44 x 31	R901092295
	R901092293		0.6 kg	4 off M5 x 40
Cover plate	HSA 06 A016-4X/M00		65 x 44 x 31	R901092288
	R901092286		0.6 kg	4 off M5 x 40

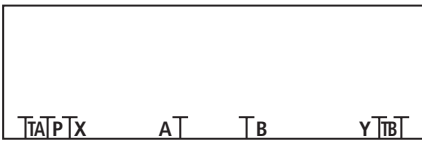
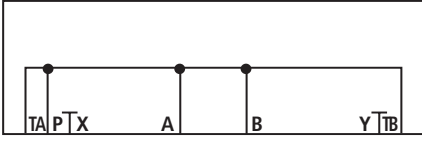
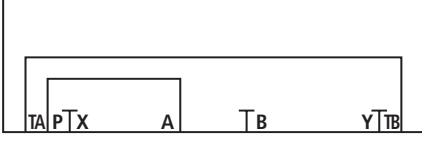
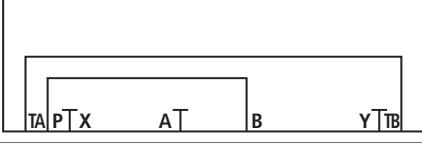
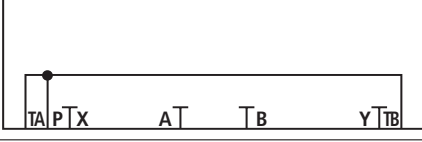
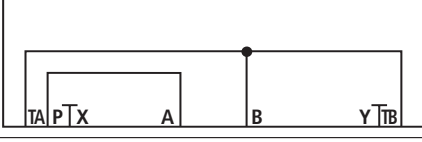
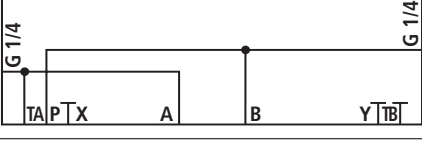
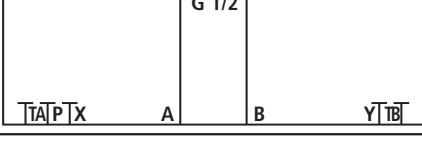
Cover plates for porting pattern type 06A (e.g.: 4WE 6 .6X/...)

Component designation	Type designation	Symbol	Plate L x W x H	Data sheet
	Material no.		Weight	Fixing screws
			Size of ports	Further information
Cover plate	HSA 06 A021-4X/M00		65 x 44 x 31	R901092318
	R901092303		0.6 kg G 1/2	4 off M5 x 40
Cover plate	HSA 06 A010-3X/M00		65 x 44 x 21	R900261213
	R900407515		0.4 kg	4 off M5 x 30
Cover plate	HSA 06 A007-3X/M00		65 x 45 x 17	R900261210
	R900327927		0.4 kg	4 off M5 x 16
Cover plate with R-ring plate	HSA 06 A025-3X/M01		65 x 44 x 42	R900264995
	R900579810		0.8 kg G 3/8	4 off M5 x 50

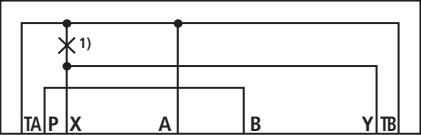
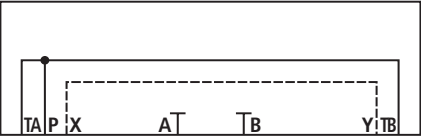
Cover plates for porting pattern type 06A (e.g.: 4WE 6 .6X/...)

Component designation	Type designation	Symbol	Plate L x W x H	Data sheet
	Material no.		Weight	Fixing screws
			Size of ports	Further information
Cover plate	Example of type: HSA 06 A064-3X/ ¹⁵ ¹⁶ S 200 M00 R900915985		120 x 44 x 51 2.2 kg	R900266511 4 off M5 x 60
Valves fitted on cover plate: • Pressure relief valve, direct operated DBD ¹⁵ ¹⁶ S 6 K1X/ 200				RE 25402
• Included in the scope of supply! – Complete valve type designation according to page 17.				
Cover plate	Example of type: HSA 06 A054-3X/ ¹⁵ ¹⁶ S 050 M00 R900558067		120 x 44 x 51 2.2 kg	R900263979 4 off M5 x 60
Valves fitted on cover plate: • Pressure relief valve, direct operated DBD ¹⁵ ¹⁶ S 6 K1X/ 50				RE 25402
Cover plate	Example of type: HSA 06 A071-3X/ ²³ ²⁴ G 24 N 9 K4M00 R900916001		120 x 44 x 100 2.2 kg	R900263638 4 off M5 x 100
Valves fitted on cover plate: • 3/2 directional poppet valve M-3SED 6 CK1X/350C ²³ ²⁴ G 24 N 9 K4				RE 22049
Cover plate	Example of type: HSA 06 A031-3X/AS1C -BS1C ²³ ²⁴ G 24 N 9 K4M00 R900979164		120 x 44 x 70 3.4 kg	R900243856 4 off M5 x 80
Valves fitted on cover plate: • 3/2 directional poppet valve KSDER 1CA/HC ²³ ²⁴ G 24 N 9 K4				RE 18136-03
• Included in the scope of supply! – Complete valve type designation according to page 17.				

Cover plates for porting pattern type 10B (e.g.: 4WEH 10 ..4X/...)

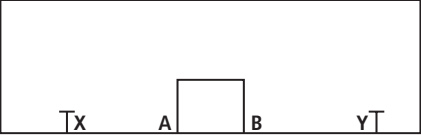
Component designation	Type designation	Symbol	Plate L x W x H	Data sheet
	Material no.		Weight	Fixing screws
			Size of ports	Further information
Cover plate with R-ring plate	HSA 10 B001-3X/M00		90 x 70 x 21	R900261221
	R900302150		1.0 kg	4 off M6 x 30
Cover plate	HSA 10 B005-3X/M00		90 x 70 x 41	R900269227
	R900915851		1.9 kg	4 off M6 x 50 Thread M10 x 1 in channels P, A, B, TA and TB
Cover plate with R-ring plate	HSA 10 B015-3X/M00		90 x 70 x 31	R900261227
	R900367014		1.4 kg	4 off M6 x 40
Cover plate with R-ring plate	HSA 10 B013-3X/M00		90 x 70 x 31	R900261226
	R900502633		1.4 kg	4 off M6 x 40
Cover plate	HSA 10 B012-3X/M00		90 x 70 x 41	R900261225
	R900502632		1.9 kg	4 off M6 x 50
Cover plate	HSA 10 B010-3X/M00		90 x 70 x 51	R900261224
	R900497359		2.3 kg	4 off M6 x 60
Cover plate with R-ring plate	HSA 10 B028-3X/M01		90 x 70 x 30	R900261427
	R900586693		1.4 kg G 1/4	4 off M6 x 40
Cover plate with R-ring plate	HSA 10 B022-3X/M01		90 x 70 x 32	R900264339
	R900576302		1.4 kg G 1/2	4 off M6 x 30

Cover plates for porting pattern type 10B (e.g.: 4WEH 10 ..4X/...)

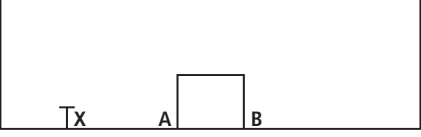
Component designation	Type designation	Symbol	Plate L x W x H	Data sheet
	Material no.		Weight	Fixing screws
			Size of ports	Further information
Cover plate	HSA 10 B018-3X/M00		100 x 70 x 50	R900259810
	R900550520		2.5 kg	4 off M6 x 60
Cover plate	HSA 10 B019-3X/M00		90 x 70 x 41	R900267089
	R900903210		2.0 kg	4 off M6 x 50

¹⁾ If required, a connection can be provided by removing the double plug.

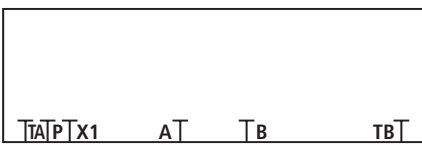
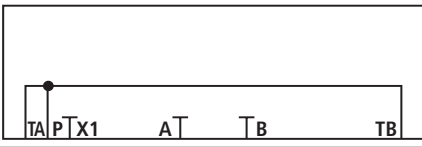
Cover plates for porting pattern type 10D (e.g.: SL 10 P ..-4X/...)

Component designation	Type designation	Symbol	Plate L x W x H	Data sheet
	Material no.		Weight	Fixing screws
			Size of ports	Further information
Cover plate	HSA 10 D001-3X/M00		70 x 90 x 26	R900267619
	R900906197		1.2 kg	4 off M10 x 40
Cover plate	HSA 10 D006-3X/M00		70 x 90 x 26	R900267620
	R900906231		1.2 kg	4 off M10 x 40

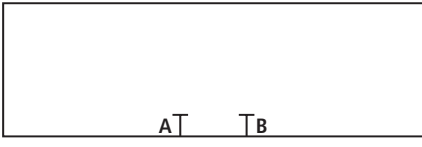
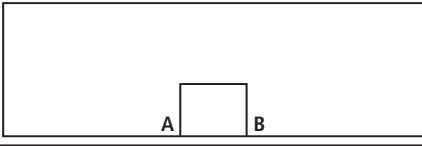
Cover plates for porting pattern type 10E (e.g.: DB 10..-5X/...)

Component designation	Type designation	Symbol	Plate L x W x H	Data sheet
	Material no.		Weight	Fixing screws
			Size of ports	Further information
Cover plate	HSA 10 E001-3X/M00		92 x 78 x 30	R900259799
	R900551001		1.5 kg	4 off M12 x 50
Cover plate	HSA 10 E006-3X/M00		92 x 78 x 30	R900267800
	R900907077		1.5 kg	4 off M12 x 50

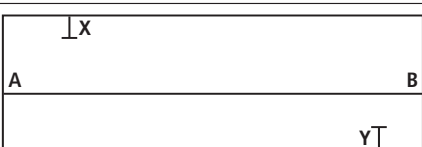
Cover plates for porting pattern type 10F (e.g.: 4WS2E. 10-4X/...)

Component designation	Type designation	Symbol	Plate L x W x H	Data sheet
	Material no.		Weight	Fixing screws
			Size of ports	Further information
Cover plate with R-ring plate	HSA 10 F001-3X/M00		90 x 70 x 21	R900265956
	R900564956		1.0 kg	4 off M6 x 30
Cover plate	HSA 10 F003-3X/M00		90 x 70 x 41	R900261235
	R900308492		2.0 kg	4 off M6 x 50

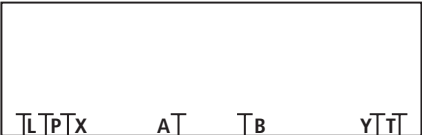
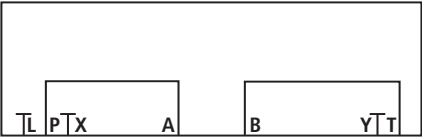
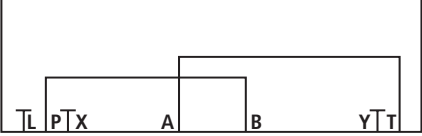
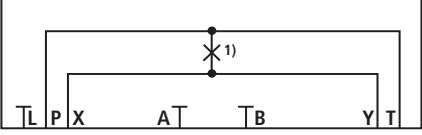
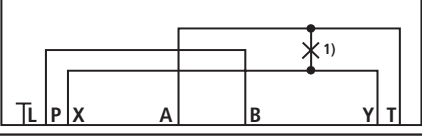
Cover plates for porting pattern type 10G (e.g.: 2FRM 10 -3X/...)

Component designation	Type designation	Symbol	Plate L x W x H	Data sheet
	Material no.		Weight	Fixing screws
			Size of ports	Further information
Cover plate	HSA 10 G001-3X/M00		100 x 100 x 20	R900267951
	R900302588		1.5 kg	4 off M8 x 30
Cover plate	HSA 10 G006-3X/M00		100 x 100 x 30	R900267952
	R900907967		2.0 kg	4 off M8 x 40

Cover plates for porting pattern type 10H (e.g.: DBC 10 -.-5X/...)

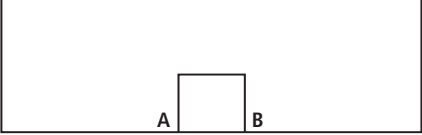
Component designation	Type designation	Symbol	Plate L x W x H	Data sheet
	Material no.		Weight	Fixing screws
			Size of ports	Further information
Cover plate	HSA 10 H001-3X/M00		80 x 65 x 29	R900265991
	R900545468		1.5 kg	4 off M8 x 40
Cover plate	HSA 10 H006-3X/M00		80 x 65 x 29	R900265992
	R900545469		1.4 kg	4 off M8 x 40

Cover plates for porting pattern type 16B (e.g.: 4WEH 16 ..6X/...)

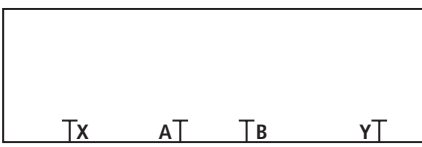
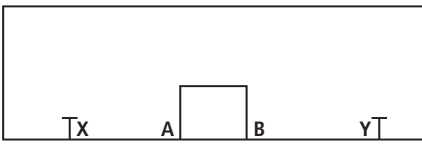
Component designation	Type designation	Symbol	Plate L x W x H	Data sheet
	Material no.		Weight	Fixing screws
			Size of ports	Further information
Cover plate	HSA 16 B001-3X/M00		140 x 91 x 20	R900261228
	R900381272		1.9 kg	2 off M6 x 30 4 off M10 x 35
Cover plate	HSA 16 B010-3X/M00		140 x 91 x 84	R900261231
	R900502635		7.8 kg	2 off M6 x 100 4 off M10 x 100
Cover plate	HSA 16 B007-3X/M00		140 x 91 x 40	R900261229
	R900502634		3.7 kg	2 off M6 x 50 4 off M10 x 55
Cover plate	HSA 16 B017-4X/M00		140 x 91 x 55	R900267221
	R900904217		5.1 kg	2 off M6 x 70 4 off M10 x 70
Cover plate	HSA 16 B018-4X/M00		140 x 91 x 55	R900267220
	R900904224		5.1 kg	2 off M6 x 70 4 off M10 x 70

¹⁾ If required, a connection can be provided by removing the double plug.

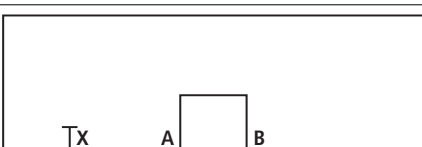
Cover plates for porting pattern type 16G (e.g.: 2FRM 16 -3X/...)

Component designation	Type designation	Symbol	Plate L x W x H	Data sheet
	Material no.		Weight	Fixing screws
			Size of ports	Further information
Cover plate	HSA 16 G001-3X/M00		122 x 124 x 26	R900267960
	R900908048		2.8 kg	4 off M10 x 40
Cover plate	HSA 16 G006-3X/M00		122 x 124 x 36	R900267961
	R900908044		4.0 kg	4 off M10 x 50

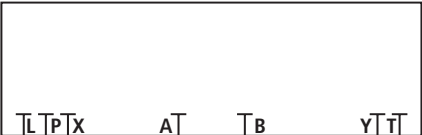
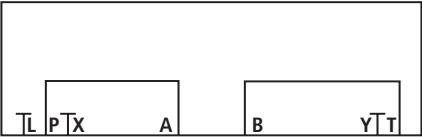
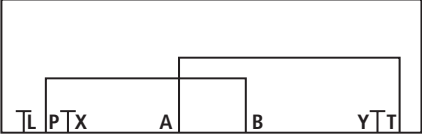
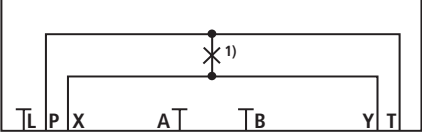
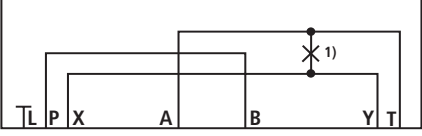
Cover plates for porting pattern type 20D (e.g.: SL 20 P ..-4X/...)

Component designation	Type designation	Symbol	Plate L x W x H	Data sheet
	Material no.		Weight	Fixing screws
			Size of ports	Further information
Cover plate	HSA 20 D001-3X/M00		100 x 100 x 26	R900267602
	R900906130		1.9 kg	4 off M10 x 40
Cover plate	HSA 20 D006-3X/M00		100 x 100 x 36	R900267603
	R900906134		2.6 kg	4 off M10 x 50

Cover plates for porting pattern type 20E (e.g.: DB 20 ..-5X/...)

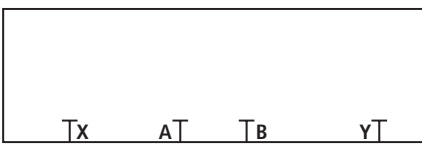
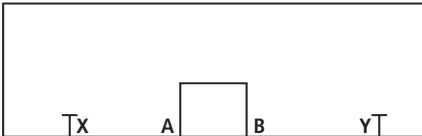
Component designation	Type designation	Symbol	Plate L x W x H	Data sheet
	Material no.		Weight	Fixing screws
			Size of ports	Further information
Cover plate	HSA 20 E001-3X/M00		120 x 100 x 26	R900267801
	R900907078		2.2 kg	4 off M16 x 50
Cover plate	HSA 20 E006-3X/M00		120 x 100 x 36	R900267802
	R900907072		3.0 kg	4 off M16 x 60

Cover plates for porting pattern type 22B (e.g.: 4WEH 22 ..-7X/...)

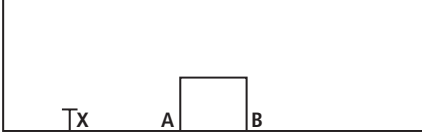
Component designation	Type designation	Symbol	Plate L x W x H	Data sheet
	Material no.		Weight	Fixing screws
			Size of ports	Further information
Cover plate	HSA 22 B001-3X/M00		160 x 117 x 20	R900261232
	R900327259		2.7 kg	6 off M12 x 40
Cover plate	HSA 22 B010-3X/M00		160 x 117 x 62	R900261234
	R900327260		8.4 kg	6 off M12 x 80
Cover plate	HSA 22 B007-3X/M00		160 x 117 x 40	R900261233
	R900502757		5.4 kg	6 off M12 x 60
Cover plate	HSA 22 B017-4X/M00		160 x 117 x 62	R900267398
	R900904989		8.4 kg	6 off M12 x 80
Cover plate	HSA 22 B018-4X/M00		160 x 117 x 62	R900267399
	R900904988		8.4 kg	6 off M12 x 80

¹⁾ If required, a connection can be provided by removing the double plug.

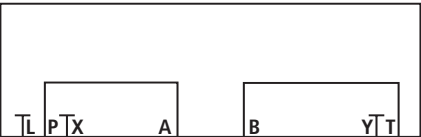
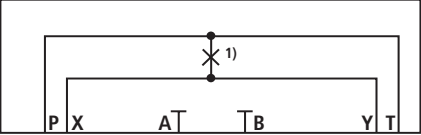
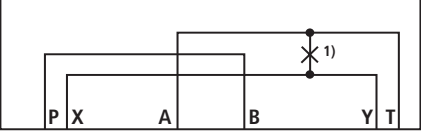
Cover plates for porting pattern type 30D (e.g.: SL 30 P ..-4X/...)

Component designation	Type designation	Symbol	Plate L x W x H	Data sheet
	Material no.		Weight	Fixing screws
			Size of ports	Further information
Cover plate	HSA 30 D001-3X/M00		120 x 120 x 26	R900267621
	R900906234		2.7 kg	6 off M10 x 40
Cover plate	HSA 30 D006-3X/M00		120 x 120 x 47	R900267622
	R900906235		4.8 kg	6 off M10 x 60

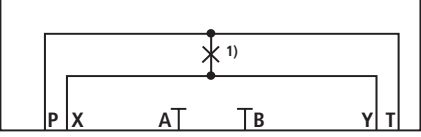
Cover plates for porting pattern type 30E (e.g.: DB30 ..-5X7...)

Component designation	Type designation	Symbol	Plate L x W x H	Data sheet
	Material no.		Weight	Fixing screws
			Size of ports	Further information
Cover plate	HSA 30 E001-3X/M00		150 x 115 x 26	R900267803
	R900907071		3.2 kg	4 off M18 x 50
Cover plate	HSA 30 E006-3X/M00		150 x 115 x 46	R900267804
	R900907079		5.7 kg	4 off M18 x 70

Cover plates for porting pattern type 32B (e.g.: 4WEH 32 ..6X/...)

Component designation	Type designation	Symbol	Plate L x W x H	Data sheet
	Material no.		Weight	Fixing screws
			Size of ports	Further information
Cover plate	HSA 32 B001-3X/M00		230 x 197 x 50	R900261448
	R900564380		16.5 kg	6 off M20 x 80
Cover plate	HSA 32 B010-3X/M00		230 x 197 x 100	R900261447
	R900566192		33 kg	6 off M20 x 130
Cover plate	HSA 32 B017-3X/M00		261 x 197 x 60	R900259800
	R900550595		22.5 kg	6 off M20 x 90
Cover plate	HSA 32 B018-4X/M00		261 x 197 x 60	R900266693
	R900901069		22.5 kg	6 off M20 x 90

Cover plates for porting pattern type 35B (e.g. 4WRDE. 35 ..-5X/...)

Component designation	Type designation	Symbol	Plate L x W x H	Data sheet
	Material no.		Weight	Fixing screws
			Size of ports	Further information
Cover plate	HSA 35 B017-3X/M00		261 x 197 x 60	R900267939
	R900907619		22.5 kg	6 off M20 x 90

¹⁾ If required, a connection can be provided by removing the double plug.

Seal kits for cover plates (NBR seals)

Porting pattern type	Seal kit	Material no.
04A	HSA 04 A...-1X/M	R900853054
04J	HSA 04 J...-3X/M	R900853066
05G	HSA 05 G...-3X/M	R900853071
06A	HSZ 06 A...-3X/M	R900313192
10B	HSZ 10 B...-3X/M	R900313194
10D	HSA 10 D...-3X/M	R900853072
10E	HSA 10 E...-3X/M	R900853073
10F	HSA 10 F...-3X/M	R900843113

Porting pattern type	Seal kit	Material no.
10H	HSA 10 H...-3X/M	R900853070
16B	HSZ 16 B...-3X/M	R900853074
16G	HSA 16 G...-3X/M	R900853075
20D	HSA 20 D...-3X/M	R900853076
20E	HSA 20 E...-3X/M	R900853078
22B	HSZ 22 B...-3X/M	R900853079
30D	HSA 30 D...-3X/M	R900853080
30E	HSA 30 E...-3X/M	R900853081
32B	HSZ 32 B...-3X/M	R900853082

Supplementary details on type designations

14	☐	Type of seal:	NBR seals FKM seals (other seals on enquiry)	= No code = V
		⚠ Caution! Observe compatibility of seals with hydraulic fluid used!		
15	☐	Adjustment element on pressure relief valve type DBD..6..:	Grub screw with hexagon and protective cap Rotary knob Lockable rotary knob	= S = H = A
16	☐	Pressure setting of pressure relief valve type DBD..6..: ⚠ Caution! Code () for complete type!	up to 25 bar up to 50 bar up to 100 bar up to 200 bar up to 315 bar	= 25 (025) = 50 (050) = 100 = 200 = 315
23	☐	Solenoid voltage of directional valve:	24 V DC 96 V DC 205 V DC	= G24 = G96 = G205
24	☐	Manual override on directional valve:	Without manual override With concealed manual override	= No code = N9
		Types of electrical connection Individual connection; with component plug to DIN EN 175301-803 and ISO 4400; without cable socket		= K4

Plugs for valve bores

Type M-SR . KE..-1X/ to data sheet RE 20380

Connection A – B closed			
Size	Material no.	Type of seal	
		NBR	FKM
8	R900542329	X	--
10	R900542330	X	--
15	R900542331	X	--
20	R900542332	X	--
25	R900542333	X	--
30	R900542334	X	--

Plug screws for valve bores

Type DBD. . K1X/... to data sheet RE 25402

Connection P – T closed			
Size	Material no.	Type of seal	
		NBR	FKM
4	R900542686	X	--
6	R900305874	X	--
10	R900305875	X	--
20	R900305876	X	--
30	R900305877	X	--

Connection P – T open			
Size	Material no.	Type of seal	
		NBR	FKM
4	R900542684	X	--
6	R900320590	X	--
10	R900320591	X	--
20	R900320592	X	--
30	R900320593	X	--

Type DB 6 K.-4X/... to data sheet RE 25731

Connection A – B closed			
Size	Material no.	Type of seal	
		NBR	FKM
6	R900315988	X	--
6	R900315995	--	X

Connection A – B open			
Size	Material no.	Type of seal	
		NBR	FKM
6	R900315989	X	--
6	R900315996	--	X

Type DB 10 K.-4X/... to data sheet RE 25731

Type DR 10 K.-3X/... to data sheet RE 26850

Connection A – B closed			
Size	Material no.	Type of seal	
		NBR	FKM
10	R900329716	X	--
10	R900329718	--	X

Connection A – B open			
Size	Material no.	Type of seal	
		NBR	FKM
10	R900329717	X	--
10	R900329719	--	X

Plug screws for valve bores

Type DB 20 K.-1X/.Y to data sheet RE 25818

Type DR 20 K.-1X/... to data sheet RE 26893

Type MHDB. 22 ..-1X/... to data sheet RE 64642

Connection A – B closed, X – Y closed			
Size	Material no.	Type of seal	
		NBR	FKM
20	R900309110	X	--

For the mounting cavity of valve DB 20 K.-1X/.XY a further plug screw is required with a seal between B and X.

Connection A – B open, X – Y closed			
Size	Material no.	Type of seal	
		NBR	FKM
20	R900324884	X	--
20	R900324885	--	X

Type FG . C.-2X/... to data sheet RE 27226

Type FK . C.-2X/... to data sheet RE 27226

Connection A – B open			
Size	Material no.	Type of seal	
		NBR	FKM
16	R900315493	X	--
25	R900315436	X	--
32	R900318628	X	--

Type 2FRM 6 K2-1X/... to data sheet RE 28155

Connection A – B closed			
Size	Material no.	Type of seal	
		NBR	FKM
6	R900852992	X	--

Connection A – B open			
Size	Material no.	Type of seal	
		NBR	FKM
6	R900024744	X	--