

Adaptor plates

Porting pattern to DIN 24340 form A and ISO 4401

RE 48045/06.06
Replaces: 09.05

1/12

Type HSE

Nominal size 4 to 32

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Features

- Sandwich plate design
- Change of function via adaption onto another component is possible
- Makes possible the replacement of phased-out components with replacement units
- Performance matching by changing the nominal size
- Maximum operating pressure: 315 bar
Exception:
 - Porting pattern types 04R, 06C, 08A and 10C: 630 bar

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

Adaptor plate explanations

Type code explanation for the type HSE... adaptor plates

HSE

1	2	3	4	5

 - 3X/

6	7	8
		*

1		Nominal size – manifold side	= 04, 05, 06, 08, 10, 16, 20, 22, 27, 30, 32	}	Porting pattern type – manifold side
2		Porting pattern – manifold side	= Form A, B, C, D, E, F, G, R, X		
3		Nominal size – component side	= 04, 05, 06, 08, 10, 16, 20, 22, 27, 32	}	Porting pattern type – component side
4		Porting pattern – component side	= Form A, B, C, D, E, F, G, J, R, X		
5		Consecutive number for the function version 001 ... 999 (are determined by the factory)			
6		Seal types:	NBR seals	= M	
		(other seals on request)	FKM seals	= V	
Note: The compatibility of the seals and pressure fluid has to be taken into account!					
7		Connection type:	No external connection	= 00	
			Connection to DIN 3852 part 2 with threads to DIN EN ISO 228 (Whitworth pipe thread)	= 01	
8	*	Further details in clear text			

- Circuits and types other than these shown in the catalogue sheet are only possible after consultation!
- Connection threads are always plugged pressure-tight.
- Fixing screws (S.H.C.S. to ISO 4762) are included within the scope of supply and are described with the relevant component.

Ordering example:

Adaptor plate (page 5, centre)

Material No.	Type description
R900468227	HSE 05A 06A 001-3X/M00

The Material No. comprises of the ready-to-install adaptor plate.

Components and associated porting patterns

Component description	Catalogue sheet no.	Porting pattern type	Component description	Catalogue sheet no.	Porting pattern type
HED 8 OH1X/...	50060	04J	M-.SED 10 .1X/350...	22045	10A
HED 4 KP1X/...	30174	04R	M-.SEW 10 .1X/420...	22075	
.WE 5 .6X/...	23166	05A	.WM. 10 .3X/...	22331	
DR 5 DP.-1X/...	26555		.WE 10 .-3X/...	23183	
DZ 5 DP.-1X/...	26055		.WE 10 .3X/...	23327	
F 5 P3-3X/...	27761	05G	5-.WE 10 .3X/...	23351	
2FRR 5 -3X/...	28136		4WRA. 10 ..-2X/...	29055	
2FRM 5 - 3X/...	28138		4WRE 10 ..-2X/...	29061	
SV 6 PB.-6X/ SL 6 PB.-6X/...	21460	06A	4WEH 10 ..4X/...	24751	10B
M-.SED 6 .1X/350...	22049		H-4WEH 10 ..4X		
M-.SEW 6 .3X/420...	22058		4WH 10 ..4X/...		
.WM. 6 .5X/...	22280		H-4WH 10 ..4X/...		
.W. 6 .5X/...	22282		4WRGE 10 ...-1X/...	29070	
.WMR. 6 .-5X/...	22284		4WRTE 10 ...-4X/...	29083	
.WE 6 .6X/...	23178		4WREE 10 ...-5X/...	29093	
.WE 6 .-6X/...	23183		4WRZ 10 ..-7X/...	29115	
DZ 6 DP.-5X/...	26076		3DRE. 10 P5X/...	29185	
DA 6 V.-4X/...	26404		4WS.2E. 10-5X/...	29583	
DR 6 DP.-5X/...	26564		-.SE 10 .2X/630...	22088	10C
2FRM 6 ...-3X/...	28163		SV 10 P.-4X/...	21468	10D
4WRA 6 ..-2X/...	29055		SL 10 P.-4X/...		
4WRE 6 ..-2X/...	29061		DZ 10 DP.-4X/...	26099	
4WRS 6 ..-3X/...	29067		DZ 10 -. -5X/...	26391	
DBE. 6 ..-1X/...	29158		DR 10 DP.-4X/...	26580	
DBEP 6 .06-1X/...	29164		DR 10 -. -5X/...	26892	
DBET . -5X/...	29165		DR 10 -. -4X/...	26893	
DBEMT . -5X/...			FD 12 PA2X/...	27551	
DBETR - 2X/...	29168		FD 16 PA2X/...		
DRE 6 ..-1X/...	29175		DRG 10 -1X/...	29145	
3DREP 6 .2X/...	29184		DRE 10 -5X/...	29176	
2FRE 6 .-2X/...	29188	DREM 10 -5X/...			
4WS2EM 6 -2X/...	29564	DB 10 ..-5X/...	25802	10E	
M-.SEW 6 .3X/630...	22058	DBW 10 ..-5X/...			
-.SE 6 .2X/...	22054	DB 10 ..-4X/...W65	25818		
HED 8 OP1X/...	50060	DB3U 10 ..5X/...	25826		
		DBG 10 -1X/...	29139		
		DBE. 10 -5X/...	29160	10F	
		DBEM. 10 -5X/...			
		4WS2E. 10 -4X/...	29586		
		4WSE2E. 10 -4X/...			
		3DS2EH 10 -2X/...	29646		
		3DSE2EH 10 -2X/...			

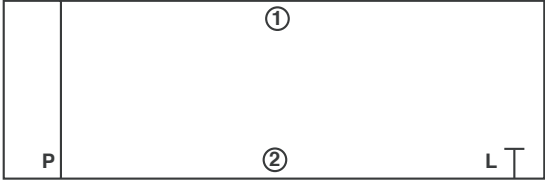

Components and associated porting patterns

Component description	Catalogue sheet no.	Porting pattern type	Component description	Catalogue sheet no.	Porting pattern type	
2FRM 10 -3X/...	28389	10G	H-4WMM 22 ..7X/...	22371	22B	
2FRH 10 -3X/...			24751			
2FRW 10 -3X/...						
2FRE 10 -4X/...	29190					
4WS2E. 10 A-4X/...	29588	10X	H-4WEH 22 ..7X/...	29070		
4WSE2E. 10 A-4X/...						
H-4WMM 16 ..7X/...	22371	16B	H-4WEH 22 ..7X/...			29075
4WEH 16 ..6X/...	24751		H-4WEH 25 ..6X/...			29075
H-4WEH 16 ..6X/...			H-4WH 25 ..6X/...			29083
4WH 16 ..6X/...			4WRGE 25 ...-1X/...	29093		
H-4WH 16 ..6X/...			4WRK. 25 ..-3X/...	29115		
4WRGE 16 ...-1X/...	29070		4WRTE 25 ...-4X/...	29115		
4WRTE 16 ...-4X/...	29083		4WREE 25 ...-5X/...	29595		
4WREE 16 ...-5X/...	29093		4WREU 25 ...-5X/...	29075		
4WRH 16 ..-7X/...	29115		4WRH 25 ..-7X/...	29083		
4WRZ 16 ..-7X/...			4WRZ 25 ..-7X/...	29093		
3DRE 16 P 4X/...	29185			4WSE3EE 25 -2X/...	21468	
3DREM 16 P 4X/...						
4WS2E. 16 -2X/...	29591			4WRKE 27 . 500-3XH/...		27B
4WSE2E. 16 -2X/...						
4WSE3EE 16 -1X/...	29595		4WRTE 27 . 500.-4XH/...	29083		
2FRM 16 -3X/...	28389	16G	4WREE 27 . 500.-5X/...	29093		
2FRH 16 -3X/...				SV 30 P.-4X/...	30D	
2FRW 16 -3X/...				SL 30 P.-4X/...		
2FRE 16 -4X/...	29190	4WRKE 27 . 500.-5X/...	21468			
SV 20 P.-4X/...	21468	20D	DZ 30 -.-5X/...	26391		
SL 20 P.-4X/...						
DZ 20 -.-5X/...	26391		DR 30 -.-5X/...	26892		
DR 20 -.-5X/...	26892		FD 32 PA2X/...	27551		
DR 20 -.-4X/...	26893		DRG 30 -1X/...	29145		
FD 25 PA2X/...	27551		DRE.. 30 -4X/	29178		
DRG 20 -1X/...	29145		DB 30 ..-5X/...	25802		
DRE 20 -5X/...	29176	20E	DBW 30 ..-5X/...			
DREM 20 -5X/						
DB 20 ..-5X/...	25802		DB3U 30 ..5X/...	25826		
DBW 20 ..-5X/...			DBG 30 -1X/...	29139		
DB 20 ..-4X/...W65	25818		DBE. 30 -3X/...	29142		
DB3U 20 ..5X/...	25826		DBEM. 30 -3X/...			
DBG 20 -1X/...	29139		4WEH 32 ..6X/...	24751		
DBE. 20 -5X/...	29160	20E	H-4WEH 32 ..6X/...			
DBEM. 20 -5X/...						
			4WRK. 32 ..-3X/		29075	
			4WRTE 32 ...-4X/...		29083	
			4WREE 32 ...-5X/...		29093	
			4WREU 32 ...-5X/...			
			4WRH 32 ..-7X/...		29115	
			4WRZ 32 ..-7X/...			
			4WSE3EE 32 -4X/...		29595	

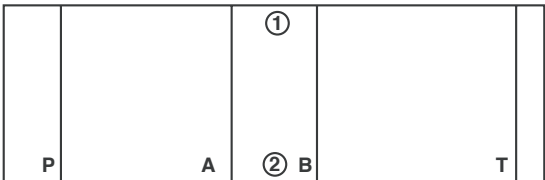
Note:

All of the components stated within a porting pattern type have the same connection pattern.

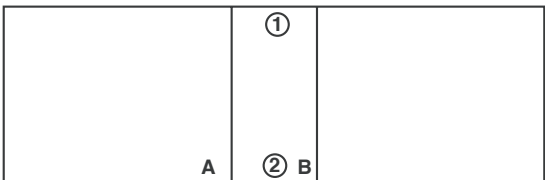
Adaptor plate for porting pattern type 04R on the manifold side (① = component side, ② = manifold side)

Component description	Type code Material No.	Symbol	Plate L x B x H ¹⁾ Weight Connection sizes	Dimensions Fixing screws Further information
Adaptor plate	HSE 04R 08R 130-3X/M00 R900922961		40 x 40 x 20 0,2 kg	R900259719 Without separate fixing (sandwich plate principle)
Adaptor plate	HSE 04R 04J 131-3X/M01 R900922962		45 x 40 x 41 0,5 kg P = G1/4	R900262836 2 off M5 x 50

Adaptor plate for porting pattern type 05A on the manifold side (① = component side, ② = manifold side)

Component description	Type code Material No.	Symbol	Plate L x B x H ¹⁾ Weight Connection sizes	Dimensions Fixing screws Further information
Adaptor plate	HSE 05A 06A 001-3X/M00 R900468227		65 x 45 x 50 1,1 kg	R900265834 4 off M5 x 50

Adaptor plate for porting pattern type 05G on the manifold side (① = component side, ② = manifold side)

Component description	Type code Material No.	Symbol	Plate L x B x H ¹⁾ Weight Connection sizes	Dimensions Fixing screws Further information
Adaptor plate	HSE 05G 06A 001-3X/V00 R900496121		60 x 60 x 30 0,8 kg	R900274465 4 off M5 x 30

¹⁾ Nominal dimensions in mm

Adaptor plate for porting pattern type 06A on the manifold side (① = component side, ② = manifold side)

Component description	Type code Material No.	Symbol	Plate L x B x H ¹⁾ Weight Connection sizes	Dimensions Fixing screws Further information
Adaptor plate	HSE 06A 04A 001-3X/M00 R900539992		65 x 44 x 20 0,4 kg	R900265624 4 off M5 x 20
Adaptor plate	HSE 06A 10A 001-3X/M00 R900922686		131 x 70 x 50 3,3 kg	R900270119 4 off M5 x 50
Adaptor plate	HSE 06A 10A 003-3X/M00 R900511288		76 x 60 x 27 0,9 kg	R900262410 4 off M5 x 12 ²⁾

Adaptor plate for porting pattern type 08A on the manifold side (① = component side, ② = manifold side)

Component description	Type code Material No.	Symbol	Plate L x B x H ¹⁾ Weight Connection sizes	Dimensions Fixing screws Further information
Adaptor plate	HSE 08A 06A 001-3X/M00 R900463038		65 x 54 x 30 0,7 kg	R900262408 4 off M6 x 30
Adaptor plate	HSE 08A 06A 003-3X/M00 R900518867		75 x 54 x 45 1,2 kg	R900262411 4 off M6 x 45
Adaptor plate	HSE 08A 06C 001-3X/M00 R900463049		65 x 54 x 30 0,7 kg	R900262409 4 off M6 x 30
Adaptor plate	HSE 08A 06C 003-3X/M00 R900906803		75 x 54 x 45 1,3 kg	R900267820 4 off M6 x 45

¹⁾ Nominal dimensions in mm²⁾ Screws for vertical stacking assembly from top edge of the adaptor plate + 15 mm.

Adaptor plate for porting pattern type 10B on the manifold side (① = component side, ② = manifold side)

Component description	Type code Material No.	Symbol	Plate L x B x H ¹⁾ Weight Connection sizes	Dimensions Fixing screws Further information
Adaptor plate	HSE 10B 06A 001-3X/M00 R900303948		90 x 70 x 30 1,4 kg	R900262754 4 off M6 x 25
Adaptor plate	HSE 10B 10X 109-3X/M00 R900905128		95 x 85 x 40 2,2 kg	R900267511 4 off M6 x 40
Adaptor plate	HSE 10B 16B 001-3X/M01 R900308901		140 x 91 x 65 6,0 kg X = G1/4 Y = G1/4	R900262399 4 off M6 x 30 ²⁾

Adaptor plate for porting pattern type 10C on the manifold side (① = component side, ② = manifold side)

Component description	Type code Material No.	Symbol	Plate L x B x H ¹⁾ Weight Connection sizes	Dimensions Fixing screws Further information
Adaptor plate	HSE 10C 06C 001-3X/M00 R900908683		90 x 63 x 49 2,2 kg	R900268770 4 off M8 x 50

¹⁾ Nominal dimensions in mm

²⁾ Screws for vertical stacking assembly from top edge of the adaptor plate + 30 mm.

Adaptor plate for porting pattern type 10F on the manifold side (① = component side, ② = manifold side)

Component description	Type code Material No.	Symbol	Plate L x B x H ¹⁾ Weight Connection sizes	Dimensions Fixing screws Further information
Adaptor plate	HSE 10F 06A 001-4X/M00 R901104940		90 x 70 x 30 1,4 kg	R901104943 4 off M6 x 25
Adaptor plate	HSE 10F 10B 001-3X/M00 R900915104		105 x 65 x 20 1,0 kg	R900269108 Without separate fixing (sandwich plate principle)

Adaptor plate for porting pattern type 10G on the manifold side (① = component side, ② = manifold side)

Component description	Type code Material No.	Symbol	Plate L x B x H ¹⁾ Weight Connection sizes	Dimensions Fixing screws Further information
Adaptor plate	HSE 10G 05G 001-3X/M00 R900916974		95 x 100 x 30 2,0 kg	R900269381 4 off M8 x 40

Adaptor plate for porting pattern type 10X on the manifold side (① = component side, ② = manifold side)

Component description	Type code Material No.	Symbol	Plate L x B x H ¹⁾ Weight Connection sizes	Dimensions Fixing screws Further information
Adaptor plate	HSE 10X 10B 154-3X/M00 R900905126		95 x 82 x 40 2,2 kg	R900267512 4 off M8 x 40

¹⁾ Nominal dimensions in mm

Adaptor plate for porting pattern type 16B on the manifold side (① = component side, ② = manifold side)

Component description	Type code Material No.	Symbol	Plate L x B x H ¹⁾ Weight Connection sizes	Dimensions Fixing screws Further information
Adaptor plate	HSE 16B 06A 001-3X/M00 R900524335		140 x 91 x 40 3,7 kg	R900262763 4 off M10 x 40 2 off M6 x 40
Adaptor plate	HSE 16B 10A 001-3X/M01 R900494609		140 x 92 x 50 4,7 kg A = G1/4 B = G1/4	R900262465 4 off M10 x 50 2 off M6 x 50
Adaptor plate	HSE 16B 10B 001-3X/M01 R900381275		140 x 91 x 75 6,9 kg A = G1/4 B = G1/4 P = G1/4	R900265040 4 off M10 x 40 2 off M6 x 40
Adaptor plate	HSE 16B 22B 001-3X/M00 R900534817		165 x 140 x 100 16,7 kg	R900265278 4 off M10 x 100 2 off M6 x 100

Adaptor plate for porting pattern type 16G on the manifold side (① = component side, ② = manifold side)

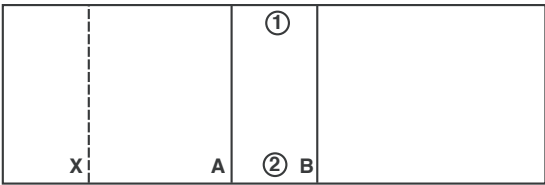
Component description	Type code Material No.	Symbol	Plate L x B x H ¹⁾ Weight Connection sizes	Dimensions Fixing screws Further information
Adaptor plate	HSE 16G 10G 001-3X/M00 R900534949		125 x 125 x 40 4,7 kg	R900265291 4 off M10 x 40

Adaptor plate for porting pattern type 20D on the manifold side (① = component side, ② = manifold side)

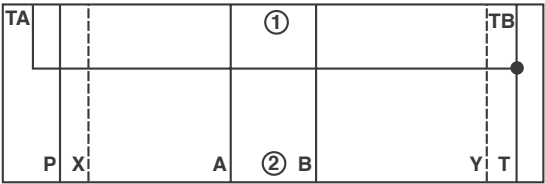
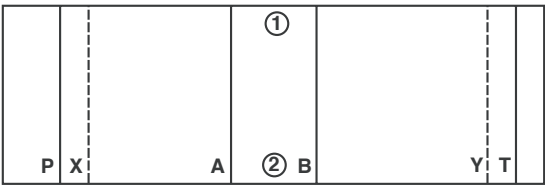
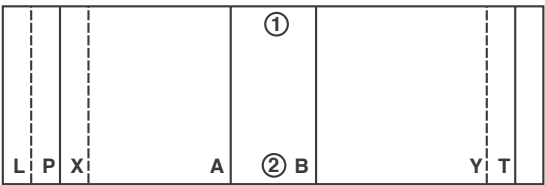
Component description	Type code Material No.	Symbol	Plate L x B x H ¹⁾ Weight Connection sizes	Dimensions Fixing screws Further information
Adaptor plate	HSE 20D 10D 001-3X/M00 R900920911		100 x 100 x 50 3,6 kg	R900269944 4 off M10 x 50

¹⁾ Nominal dimensions in mm

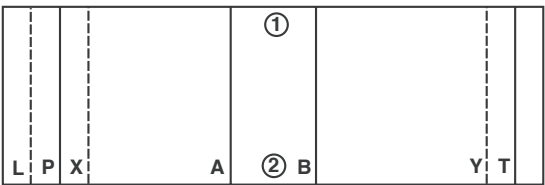
Adaptor plate for porting pattern type 20E on the manifold side (① = component side, ② = manifold side)

Component description	Type code Material No.	Symbol	Plate L x B x H ¹⁾ Weight Connection sizes	Dimensions Fixing screws Further information
Adaptor plate	HSE 20E 10E 001-3X/M00 R900920450		120 x 100 x 40 3,5 kg	R900269909 4 off M16 x 40

Adaptor plate for porting pattern type 22B on the manifold side (① = component side, ② = manifold side)

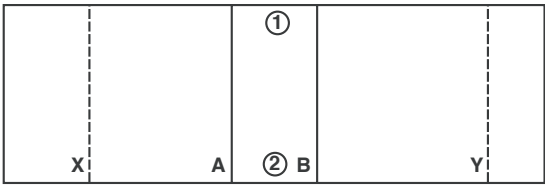
Component description	Type code Material No.	Symbol	Plate L x B x H ¹⁾ Weight Connection sizes	Dimensions Fixing screws Further information
Adaptor plate	HSE 22B 10B 001-3X/M00 R900547240		160 x 117 x 50 6,7 kg	R900268088 6 off M12 x 50
Adaptor plate	HSE 22B 16B 001-3X/M00 R900379983		200 x 117 x 60 10,0 kg	R900262622 6 off M12 x 60
Adaptor plate	HSE 22B 32B 001-3X/M00 R900515227		230 x 197 x 85 28 kg	R900262388 6 off M12 x 40 ²⁾

Adaptor plate for porting pattern type 27B on the manifold side (① = component side, ② = manifold side)

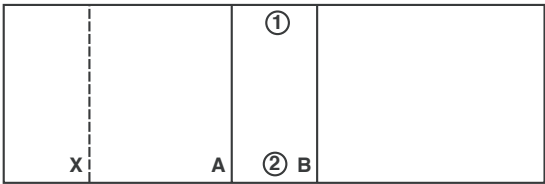
Component description	Type code Material No.	Symbol	Plate L x B x H ¹⁾ Weight Connection sizes	Dimensions Fixing screws Further information
Adaptor plate	HSE 27B 22B 001-3X/M00 R900915151		190 x 117 x 20 3,2 kg	R900262713

¹⁾ Nominal dimensions in mm²⁾ Screws for vertical stacking assembly from top edge of the adaptor plate + 50 mm.

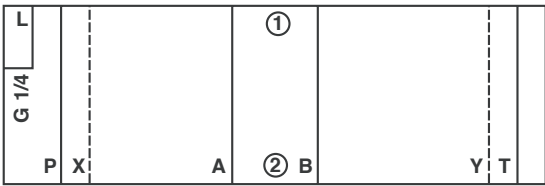
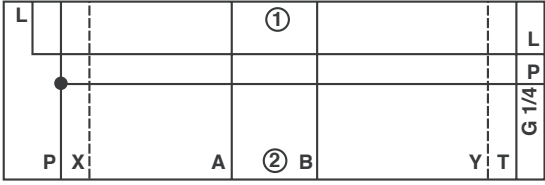
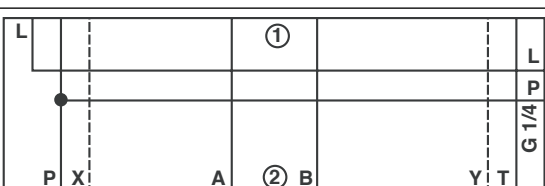
Adaptor plate for porting pattern type 30D on the manifold side (① = component side, ② = manifold side)

Component description	Type code Material No.	Symbol	Plate L x B x H ¹⁾ Weight Connection sizes	Dimensions Fixing screws Further information
Adaptor plate	HSE 30D 20D 001-3X/M00 R900920912		120 x 120 x 35 3,6 kg	R900269946 6 off M10 x 30

Adaptor plate for porting pattern type 30E on the manifold side (① = component side, ② = manifold side)

Component description	Type code Material No.	Symbol	Plate L x B x H ¹⁾ Weight Connection sizes	Dimensions Fixing screws Further information
Adaptor plate	HSE 30E 20E 001-3X/M00 R900920913		180 x 117 x 70 10,8 kg	R900269951 4 off M18 x 50

Adaptor plate for porting pattern type 32B on the manifold side (① = component side, ② = manifold side)

Component description	Type code Material No.	Symbol	Plate L x B x H ¹⁾ Weight Connection sizes	Dimensions Fixing screws Further information
Adaptor plate	HSE 32B 16B 001-3X/M01 R900902695		230 x 197 x 75 24,8 kg L = G1/4	R900267122 6 off M20 x 100
Adaptor plate	HSE 32B 22B 001-3X/M01 R900420078		230 x 197 x 75 24,8 kg P = G1/4 L = G1/4	R900266340 6 off M20 x 80
Adaptor plate	HSE 32B 27B 001-3X/M01 R900570640		230 x 197 x 75 24,8 kg P = G1/4 L = G1/4	R900266329 6 off M20 x 80

¹⁾ Nominal dimensions in mm

Seal kits for adaptor plates (NBR seals)

Port. patt. type	Seal kit	Material No.
04R	HSE 04R ... -3X/M	R900857762
05A	HSE 05A 06A 001-3X/M	R900857763
05G	HSA 05G ...-3X/M	R900853071
06A	HSZ 06A ...-3X/M	R900313192
06A	HSE 06A 10A 003-3X/M	R900857766
08A	HSE 08A ... -3X/M	R900857764
10A	HSZ 10B...-3X/M	R900313194
10B		
10C		
10B	HSE 10B 16B 001-3X/M	R900857765
10F	HSA 10F...-3X/M	R900843113
10G	HSA 10G ...-3X/M	R900853069
10X	HSA 10X 10B 154-3X/M	R900857768

Port. patt. type	Seal kit	Material No.
16B	HSZ 16B ...-3X/M	R900853074
16G	HSA 16G ...-3X/M	R900853075
20D	HSA 20D ...-3X/M	R900853076
20E	HSA 20E ...-3X/M	R900853078
22B	HSE 22B 32B 001-3X/M	R900857769
22B	HSZ 22B ...-3X/M	R900853079
27B	HSE 27B ... -3X/M	R901107628
30D	HSA 30D ...-3X/M	R900853080
30E	HSA 30E ...-3X/M	R900853081
32B	HSZ 32B ...-3X/M	R900853082