

Hydraulic Motors - Service Information M4E / M4SE / M4E1 / M4SE1

Denison Vane - Flügelzellen - Palettes - Palette - Paletas

aerospace
climate control
electromechanical
filtration
fluid & gas handling
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pneumatics
process control
sealing & shielding



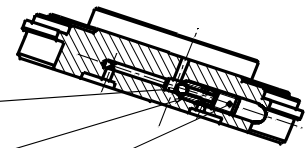
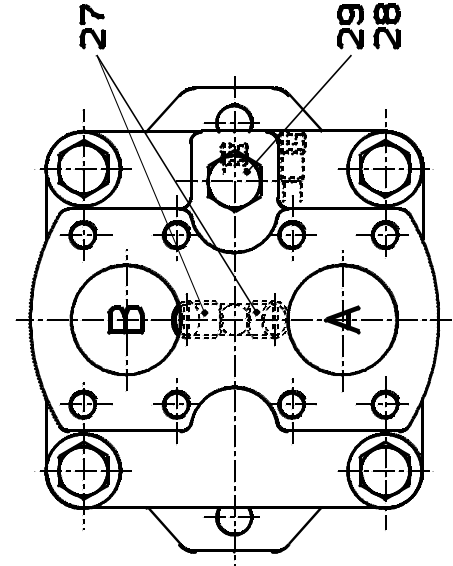
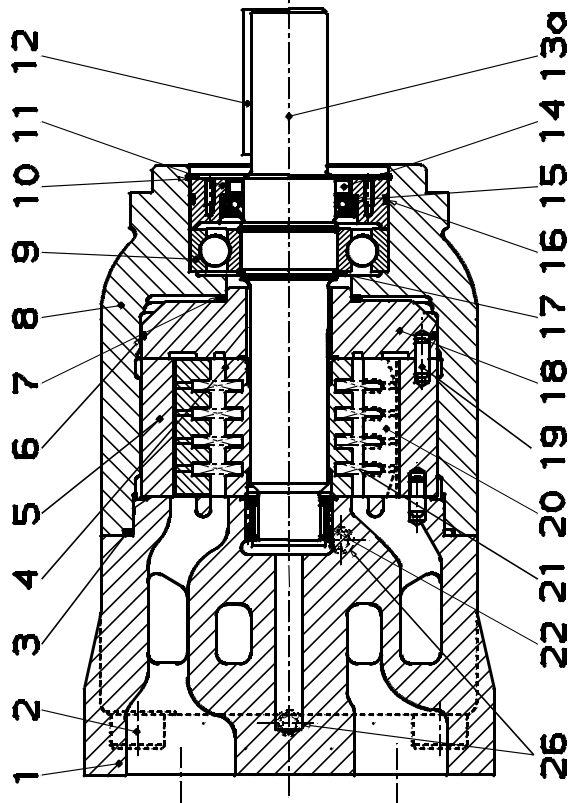
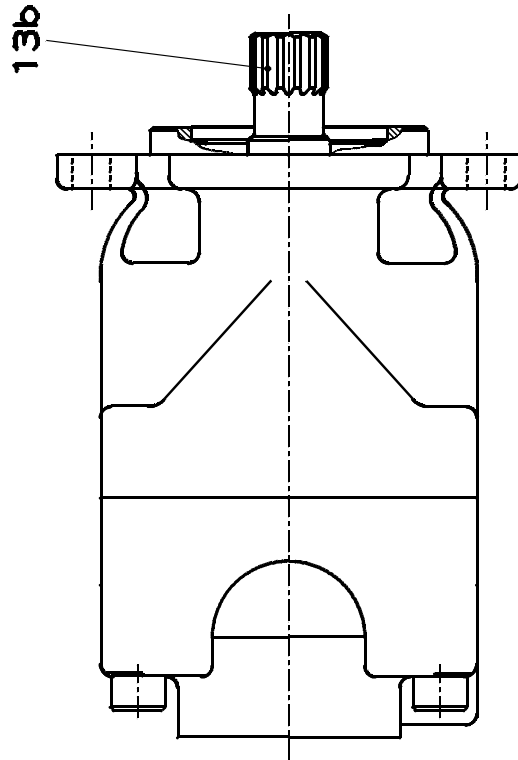
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Drawing

M4E - M4E1
M4SE - M4SE1

Item - Pos. - Réf. - Pos.	25
2	235 N.m 173 ft.lbs
Mounting torque	11,5 to 12,6 N.m 8,5 to 9,3 ft.lbs
Anziehdrehmoment	
Couple de serrage	
Coppia di serraggio	
Par de apriete	

Recommended repair kits and assy's are bold printed
Empfohlene Austausch - Baugruppen sind fett gedruckt
Les pochettes de rechange recommandées sont imprimées en caractères gras
I kit di ricambio consigliati sono indicati in grassetto
Los juegos de reparacion recomendados y los conjuntos, estan en negrita



Spare part list

Series M4E, Denison Vane Motors

Item Pos. Réf. Pos.	Description Descrizione	Benennung Description	Description	Part N° Teil Nr. Code N° Cod. N° Referencia M4E - M4SE1	Part N° Teil Nr. Code N° Cod. N° Referencia M4E - M4SE1	Qty. Stück Qté Q.tà Cant.
	End cap 4-bolts UNC (SAE drain) (M4E - M4SE) Coperchio UNC 4 fori (drenaggio SAE) (M4E - M4SE)	Deckel UNC Flansch (SAE Leckdichtanschluß) (M4E - M4SE) Tapa UNC 4 agujeros (drenaje SAE) (M4E - M4SE)	Chapeau 4 trous UNC (drain SAE) (M4E - M4SE)	034-71288-0	034-71288-0	1
	End cap fhd. port SAE (SAE drain) (M4E - M4SE) Coperchio filettature SAE (drenaggio SAE) (M4E - M4SE)	Deckel SAE Gewinde (SAE Leckdichtanschluß) (M4E - M4SE) Tapa rosca SAE (drenaje SAE) (M4E - M4SE)	Chapeau offertes taraudés SAE (drain SAE) (M4E - M4SE)	034-71290-0	034-71290-0	1
1	End cap 4-bolts UNC (BSPP drain) (M4E - M4SE) Coperchio UNC 4 fori (drenaggio BSP) (M4E - M4SE)	Deckel UNC Flansch (R Leckdichtanschluß) (M4E - M4SE) Tapa UNC 4 agujeros (drenaje BSP) (M4E - M4SE)	Chapeau 4 trous UNC (drain BSPP) (M4E - M4SE)	034-66375-0	034-66375-0	1
	End cap 4-bolts UNC (SAE drain) (M4E1 - M4SE1) Coperchio UNC 4 fori (drenaggio SAE) (M4E1 - M4SE1)	Deckel UNC Flansch (SAE Leckdichtanschluß) (M4E1 - M4SE1) Tapa UNC 4 agujeros (drenaje SAE) (M4E1 - M4SE1)	Chapeau 4 trous UNC (drain SAE) (M4E1 - M4SE1)	034-71289-0	034-71289-0	1
	End cap fhd. port SAE (SAE drain) (M4E1 - M4SE1) Coperchio filettature SAE (drenaggio SAE) (M4E1 - M4SE1)	Deckel SAE Gewinde (SAE Leckdichtanschluß) (M4E1 - M4SE1) Tapa rosca SAE (drenaje SAE) (M4E1 - M4SE1)	Chapeau offertes taraudés SAE (drain SAE) (M4E1 - M4SE1)	034-71291-0	034-71291-0	1
2	Screw Vite	Schraube Tornillo	Vis	358-24380-0	358-24380-0	4
3	O ring Guarnizione torica	Runddichtung Anillo tórico	Joint torique	675-00257-0	675-00257-0	1
	Rotor Rotore	Rotor Rotor	Rotor	034-70074-0	034-70074-0	1
5	Cam ring 153 Anello camma 153	Hubring 153 Aro volumetrico 153	Came 153	034-70076-0	034-70417-0	1
	Cam ring 185 Anello camma 185	Hubring 185 Aro volumetrico 185	Came 185	034-70077-0	034-70418-0	1
	Cam ring 214 Anello camma 214	Hubring 214 Aro volumetrico 214	Came 214	034-70078-0	034-70419-0	1
	Sq. section seal Guarnizione	Dichtring Junta seccion cuadrada	Joint section carrée	695-10250-0	695-10250-0	1
7	Sq. section seal Guarnizione	Dichtring Junta seccion cuadrada	Joint section carrée	695-10229-0	695-10229-0	1
	Housing Corpo	Gehäuse Cuerpo	Carter	034-71278-0	034-71278-0	1
9	Ball bearing Cuscinetto a sfere	Kugellager Cojinete de bolas	Roulement à billes	230-03308-0	230-03308-0	1
	Retaining ring Anello elastico	Sicherungsring Aro retencion	Circlips	356-30354-0	356-30354-0	1
11	Retainer seal Anello elastico	Dichtungsträger Aro retencion	Chapeau porte joint	034-70069-0	034-70069-0	1
	Key (code 1) Chiavetta (codice 1)	Paßfeder (Typ 1) Chaveta (codigo 1)	Clavette (code 1)	034-46754-0	034-46754-0	1
13a	Shaft (keyed) (code 1) Albero a chiavetta (codice 1)	Paßfederwelle (Typ 1) Eje chaveteado (codigo 1)	Arbre à clavette (code 1)	034-71088-0	034-71088-0	1
13b	Shaft (splined) (code 3) Albero scanalato (codice 3)	Vielkeilwelle (Typ 3) Eje estriado (codigo 3)	Arbre à cannelures (code 3)	034-71089-0	034-71089-0	1
14	Felt wiper Feltro pulitore	Filzring Felpa	Joint feutre	605-10020-0	605-10020-0	1

Spare part list

Hydraulic Motors

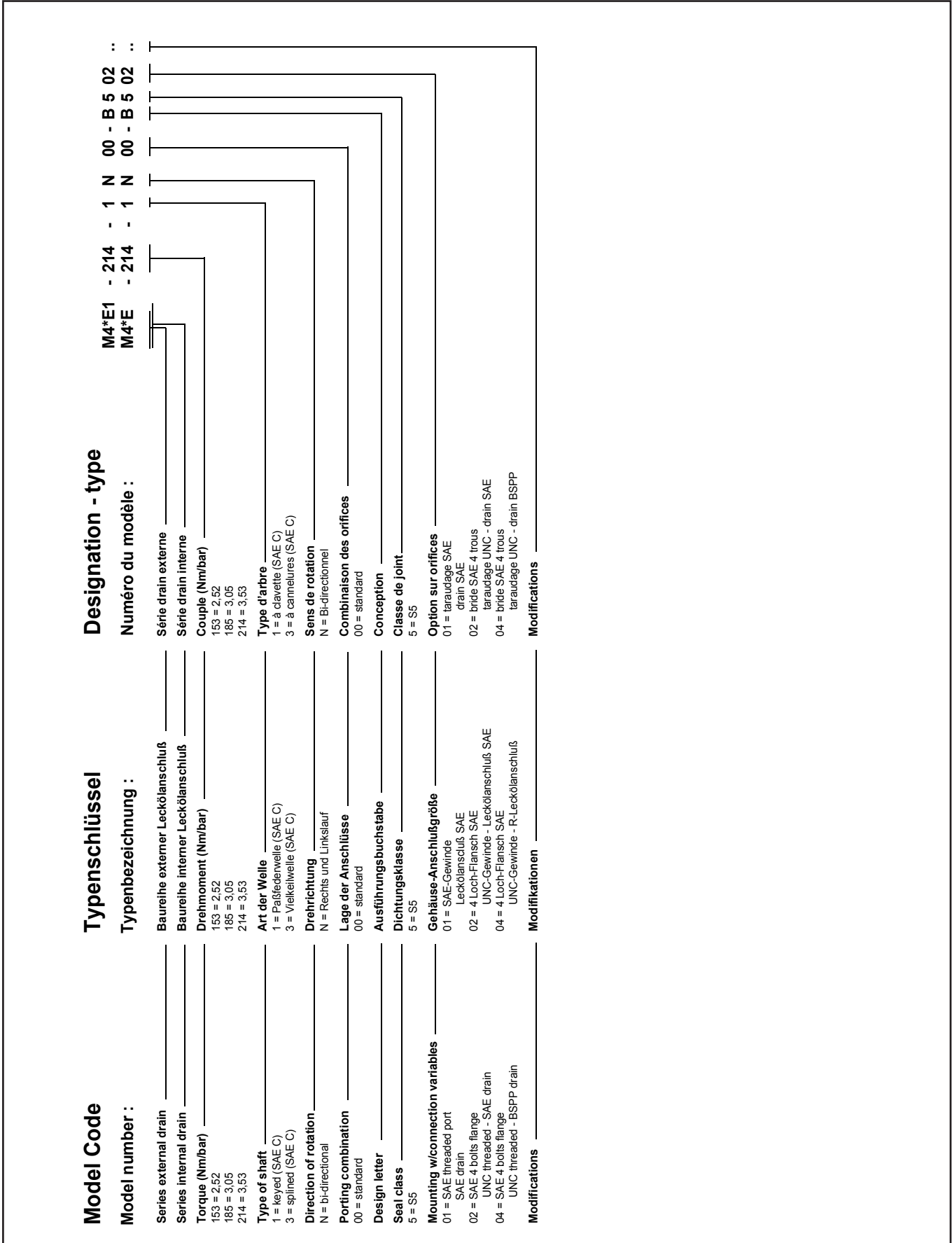
Series M4E, Denison Vane Motors

Item Pos. Ref. Pos.	Description Descrizione	Benennung Descrizione	Description	Part N° Teil Nr. Code N° Cod. N° Referencia M4E - IMSEI	Part N° Teil Nr. Code N° Cod. N° Referencia M4E - IMSEI	Qty. Stück Cant. Cant.	
15	Shaft seal Paraolio	Simmerring Retén eje	Joint d'arbre	D	637-00003-0	637-00003-0	1
16	O-ring Guarnizione torica	Runddichtung Anillo tórico	Joint torique	D	675-00236-0	675-00236-0	1
17	Round section ring Anello elastico	Sicherungsring Anillo tórico	Anneau	BC	034-70866-0	034-70866-0	2
18	Port plate pressure Piatto distributore anter.	Steuerplatte Piatto de presion	Plaque pression	E	034-53344-0	034-53344-0	1
19	Dowel pin Spina	Fixiersift Pasador	Goupille		324-22012-0	324-22012-0	2
20	Vane Paletta	Flügel Paleta	Palette	A	034-70075-0	034-70075-0	10
21	Spring vane Molla	Feder für Flügel Muelle paleta	Ressort de palette	A	034-49743-0	034-49743-0	40
22	Needle bearing Cuscinetto a rulli	Nadelager Cojinete de agujas	Roulement à aiguilles		230-82134-0	230-82134-0	1
23	Ball Sfera	Kugel Bola	Bille d'acier	E	201-06001-0	201-06001-0	1
24	Adaptor valve Adattatore	Kugel ventil Valvula adaptadora	Adapteur valve	E	034-53346-0	034-53346-0	1
25	Screw Vite	Schraube Tornillo	Vis	E	312-35056-0	312-35056-0	1
26	Plug Tappo	Stopfen Tapon	Bouchon	F	431-90400-0	431-90400-0	2
27	Check valve (M4E1 - M4SE1) Valvola di ritengo (M4E1 - M4SE1)	Rückschlagventil (M4E1 - M4SE1) Valvula de retencion (M4E1 - M4SE1)	Clapet (M4E1 - M4SE1)	F	S14-27259-0	S14-27259-0	2
28	O-ring (M4E1 - M4SE1) Guarnizione torica (M4E1 - M4SE1)	Runddichtung (M4E1 - M4SE1) Anillo tórico (M4E1 - M4SE1)	Joint torique (M4E1 - M4SE1)	FD	675-00908-0	675-00908-0	1
29	Plug (M4E1 - M4SE1) Tappo (M4E1 - M4SE1)	Stopfen (M4E1 - M4SE1) Tapon (M4E1 - M4SE1)	Bouchon (M4E1 - M4SE1)	F	488-35002-0	488-35002-0	1
	REPAIR KIT KIT DI RICAMBIO	AUSTAUSCH-BAUGRUPPEN CONJUNTO REPARACION	POCHETTES RECHANGES				
A	Kit 153 Cartuccia 153	Pumpeneinsatz 153 Juego 153	Cartouche 153		S14-27464-0	S14-28946-0	1
A	Kit 185 Cartuccia 185	Pumpeneinsatz 185 Juego 185	Cartouche 185		S14-27465-0	S14-28947-0	1
A	Kit 214 Cartuccia 214	Pumpeneinsatz 214 Juego 214	Cartouche 214		S14-27466-0	S14-28948-0	1
B	Shaft and bearing ass'y (code 1) Ins. albero (codice 1)	Baugruppe (Welle u. Lager) (Typ 1) Conjunto eje (codigo 1)	Arbre à clavette et roulement ass. (code 1)		S14-27469-0	S14-27469-0	1
C	Shaft and bearing ass'y (code 3) Ins. albero (codice 3)	Baugruppe (Welle u. Lager) (Typ 3) Conjunto eje (codigo 3)	Arbre à cameleures et roulement ass. (code 3)		S14-27470-0	S14-27470-0	1
D	Seal kit (S5) Serie guarnizioni (S5)	Dichtingsatz (S5) Juego de juntas (S5)	Pochette de joints (S5)		S14-42336-5	S14-42336-5	1

Spare part list

Series M4E, Denison Vane Motors

Item Pos. Réf. Pos.	Description Descrizione	Benennung Description	Description	Part N° Teil Nr. Code N° Código M4E - M4SE	Part N° Teil Nr. Code N° Código M4SE1 - M4SE1	Qty. Stück Qté Cant.
E	Port plate-pressure ass'y Ins. piatto distributore anter. End cap ass'y Ins. coperchio	Steuerplatte Conjunto plato dist. Gehäuse baugruppe Conjunto tapa	Plaque pression ass. Chapeau arrière ass.	S14-27471-0	S14-27471-0	1
F	4-bolts UNC (SAE drain) (M4E - M4SE) UNC 4 fori (drenaggio SAE) (M4E - M4SE)	UNC Flansch (SAE Leckölschluß) (M4E - M4SE) UNC 4 agujeros (drenaje SAE) (M4E - M4SE)	4 trous UNC (drain SAE) (M4E - M4SE)	S14-42330-0	S14-42330-0	1
	SAE thd. port (SAE drain) (M4E - M4SE) Filettature SAE (drenaggio SAE) (M4E - M4SE)	SAE Gewinde (SAE Leckölschluß) (M4E - M4SE) Rosca SAE (drenaje SAE) (M4E - M4SE)	Orifices taraudés SAE (drain SAE) (M4E - M4SE)	S14-42331-0	S14-42331-0	1
	4-bolts UNC (BSPP drain) (M4E - M4SE) UNC 4 fori (drenaggio BSP) (M4E - M4SE)	UNC Flansch (R Leckölschluß) (M4E - M4SE) UNC 4 agujeros (drenaje BSP) (M4E - M4SE)	4 trous UNC (drain BSPP) (M4E - M4SE)	S14-97018-0	S14-97018-0	1
	4-bolts UNC (SAE drain) (M4E1 - M4SE1) UNC 4 fori (drenaggio SAE) (M4E1 - M4SE1)	UNC Flansch (SAE Leckölschluß) (M4E1 - M4SE1) UNC 4 agujeros (drenaje SAE) (M4E1 - M4SE1)	4 trous UNC (drain SAE) (M4E1 - M4SE1)	S14-42332-0	S14-42332-0	1
SAE thd. port (SAE drain) (M4E1 - M4SE1) Filettature SAE (drenaggio SAE) (M4E1 - M4SE1)	SAE Gewinde (SAE Leckölschluß) (M4E1 - M4SE1) Rosca SAE (drenaje SAE) (M4E1 - M4SE1)	Orifices taraudés SAE (drain SAE) (M4E1 - M4SE1)	S14-42333-0	S14-42333-0	1	
Notes						



Designation - type

Typenschlüssel

Model Code

Model number : M4*E1 - 214 - 1 N 00 - B 5 02
 M4*E - 214 - 1 N 00 - B 5 02

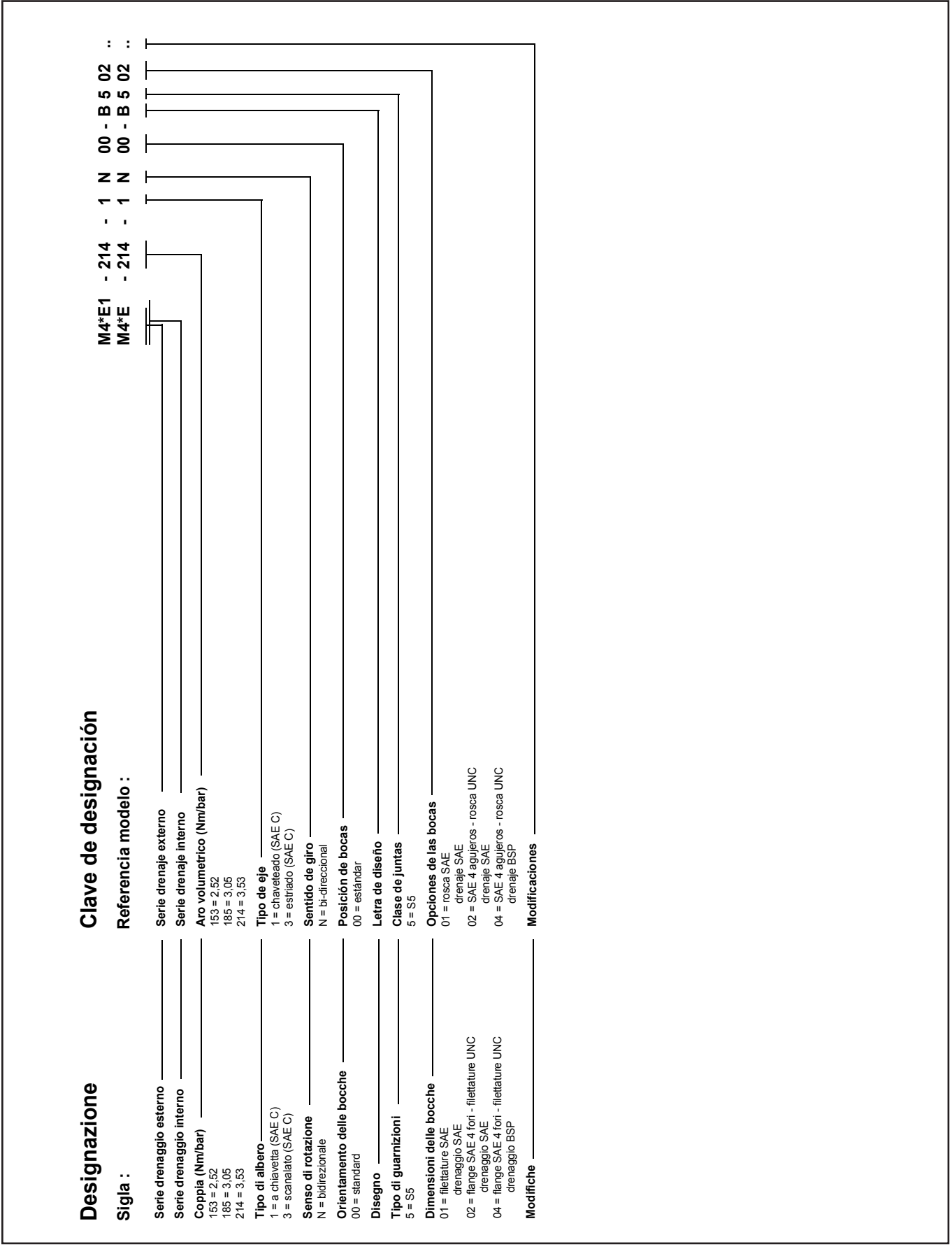
Typenbezeichnung : Série drain externe
 Série drain interne
 Couple (Nm/bar)
 153 = 2,52
 185 = 3,05
 214 = 3,53
 Type d'arbre
 1 = à clavette (SAE C)
 3 = à cannelures (SAE C)
 Sens de rotation
 N = Bi-directionnel
 Combinaison des orifices
 00 = standard
 Conception
 Classe de joint
 5 = S5
 Option sur orifices
 01 = taraudage SAE drain SAE
 02 = bride SAE 4 trous taraudage UNC - drain SAE
 04 = bride SAE 4 trous taraudage UNC - drain BSPP

Model number : Baureihe externer Leckölschlus
 Baureihe interner Leckölschlus
 Drehmoment (Nm/bar)
 153 = 2,52
 185 = 3,05
 214 = 3,53
 Art der Welle
 1 = Paßfederwelle (SAE C)
 3 = Vielkeilwelle (SAE C)
 Drehrichtung
 N = Rechts und Linkslauf
 Lage der Anschlüsse
 00 = standard
 Ausführungsbuchstabe
 Dichtungsclass
 5 = S5
 Gehäuse-Anschlußgröße
 01 = SAE-Gewinde Leckölschlus SAE
 02 = 4 Loch-Flansch SAE UNC-Gewinde - Leckölschlus SAE
 04 = 4 Loch-Flansch SAE UNC-Gewinde - R-Leckölschlus

Series external drain
Series internal drain
Torque (Nm/bar)
 153 = 2,52
 185 = 3,05
 214 = 3,53
Type of shaft
 1 = keyed (SAE C)
 3 = splined (SAE C)
Direction of rotation
 N = bi-directional
Porting combination
 00 = standard
Design letter
Seal class
 5 = S5
Mounting w/connection variables
 01 = SAE threaded port SAE drain
 02 = SAE 4 bolts flange UNC threaded - SAE drain
 04 = SAE 4 bolts flange UNC threaded - BSPP drain

Modifications





Designazione

Sigla :

- Serie drenaggio esterno _____
- Serie drenaggio interno _____
- Coppia (Nm/bar) _____
163 = 2,52
185 = 3,05
214 = 3,53
- Tipo di albero _____
1 = a chiavetta (SAE C)
3 = scanalato (SAE C)
- Senso di rotazione _____
N = bidirezionale
- Orientamento delle bocche _____
00 = standard
- Disegno _____
- Tipo di guarnizioni _____
5 = S5
- Dimensioni delle bocche _____
01 = filettature SAE
drenaggio SAE
02 = flange SAE 4 fori - filettature UNC
drenaggio SAE
04 = flange SAE 4 fori - filettature UNC
drenaggio BSP
- Modifiche _____

Clave de designación

Referencia modelo :

- Serie drenaje externo _____
- Serie drenaje interno _____
- Aro volumetrico (Nm/bar) _____
163 = 2,52
185 = 3,05
214 = 3,53
- Tipo de eje _____
1 = chaveteado (SAE C)
3 = estriado (SAE C)
- Sentido de giro _____
N = bi-direccional
- Posición de bocas _____
00 = estándar
- Letra de diseño _____
- Clase de juntas _____
5 = S5
- Opciones de las bocas _____
01 = rosca SAE
drenaje SAE
02 = SAE 4 agujeros - rosca UNC
drenaje SAE
04 = SAE 4 agujeros - rosca UNC
drenaje BSP
- Modificaciones _____

M4*E1 - 214 - 1 N 00 - B 5 02
M4*E - 214 - 1 N 00 - B 5 02



Warning**WARNING — USER RESPONSIBILITY**

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