

# Disposition

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## Gothenburg Concert Hall Organ Göteborgs Konserthusorgel

October 2021

Specification of the organ built by Rieger Orgelbau GmbH,  
Schwarzach (Austria), 2018–2021

**GRAND ORGUE** (Manual I)

[wind pressure: 90 mm; flexible wind pressure, 0–160 mm]

|                  |        |  |
|------------------|--------|--|
| Montre           | 16'    | C, C# spruce/fir; tts [timbre and tuning slots]  |
| Bourdon          | 16'    | C–h <sup>0</sup> spruce/fir  |
| Montre           | 8'     | tts  |
| Flûte harmonique | 8'     | C–H spruce; harmonic from f# <sup>1</sup> ; tts  |
| Bourdon          | 8'     | C–H spruce/fir; c <sup>0</sup> –e <sup>3</sup> chimney flute; f <sup>3</sup> –c <sup>4</sup> conical   |
| Viole de Gambe   | 8'     | tts  |
| Grosse Quinte    | 5 1/3' | tts  |
| Prestant         | 4'     | tts  |
| Flûte            | 4'     | tts  |
| Grosse Tierce    | 3 1/5' | tts  |
| Quinte           | 2 2/3' | tts  |
| Doublette        | 2'     | tts  |
| Cornet           | V      | from c <sup>1</sup> ; tts  |
| Fourniture (2')  | V      | tts  |
| Cymbale (1')     | IV     | tts  |
| Bombarde         | 16'    | Bertounèche shallots   |
| Trompette        | 8'     | Bertounèche shallots; f# <sup>3</sup> –c <sup>4</sup> flue pipes   |
| Clairon          | 4'     | Bertounèche shallots; f# <sup>2</sup> –c <sup>4</sup> flue pipes   |
| Saxophone        | 8'     | C–h <sup>1</sup> open wooden flue pipe with stopped wooden backpack resonator containing a free reed; c <sup>2</sup> –h <sup>2</sup> , metal, free reed; c <sup>3</sup> –c <sup>4</sup> flue pipes 8' + 4' |

**POSITIF EXPRESSIF** (Manual II)[wind pressures: B (C–e<sup>0</sup>): 105 mm; T (f<sup>0</sup>–c<sup>4</sup>): 115 mm]

|                    |        |   |
|--------------------|--------|---|
| Quintaton          | 16'    | C–h <sup>0</sup> spruce   |
| Principal          | 8'     | tts   |
| Flûte              | 8'     | C–H spruce/fir; C–H tts; c <sup>0</sup> –h <sup>0</sup> tuning rolls; c <sup>3</sup> –c <sup>4</sup> cut to length  |
| Cor de Nuit        | 8'     | C–H spruce/fir; c <sup>0</sup> –e <sup>3</sup> chimney flute; e <sup>3</sup> –c <sup>4</sup> conical  |
| Salicional         | 8'     | tts   |
| Unda Maris         | 8'     | from c <sup>0</sup> ; tts   |
| Prestant           | 4'     | tts   |
| Flûte douce        | 4'     | C–e <sup>3</sup> stopped; f# <sup>2</sup> –c <sup>4</sup> conical   |
| Nazard             | 2 2/3' | C–e <sup>3</sup> chimney flute; c <sup>2</sup> –c <sup>4</sup> conical  |
| Doublette          | 2'     | tts   |
| Tierce             | 1 3/5' | breaks to 2' on h <sup>3</sup>  |
| Larigot            | 1 1/3' | breaks to 1 3/5' on g# <sup>3</sup> and to 2' on h <sup>3</sup>   |
| Septième           | 1 1/7' | breaks to 1 1/3' on f <sup>3</sup> ; to 1 3/5' on g# <sup>3</sup> and to 2' on h <sup>3</sup>   |
| Piccolo            | 1'     | breaks to 1 1/7' on d# <sup>3</sup> ; to 1 1/3' on f <sup>3</sup> ; to 1 3/5' on g# <sup>3</sup> , and to 2' on h <sup>3</sup>                            |
| Neuvième           | 8/9'   | breaks to 1' on c# <sup>3</sup> ; to 1 1/7' on d# <sup>3</sup> ; to 1 1/3' on f <sup>3</sup> ; to 1 3/5' on g# <sup>3</sup> , and to 2' on h <sup>3</sup> |
| Onzième            | 8/11'  | breaks to 8/9' on b <sup>2</sup> ; to 1 1/7' on d# <sup>3</sup> ; to 11/3' on f <sup>3</sup> ; to 1 3/5' on g# <sup>3</sup> , and to 2' on h <sup>3</sup> |
| Cornet             | V      | from f <sup>0</sup> ; tts   |
| Plein Jeu (1 1/3') | IV     |   |
| Basson             | 16'    | tear drop shallots with brass covering; C–F# zinc resonators  |
| Trompette          | 8'     | beaked (goosebill) shallots; f# <sup>3</sup> –c <sup>4</sup> flue pipes   |
| Cromorne           | 8'     | beaked (goosebill) shallots; f# <sup>3</sup> –c <sup>4</sup> flue pipes   |
| Tremolo            |        |   |

**RÉCIT EXPRESSIF** (Manual III)[wind pressures: B (C-e<sup>0</sup>): 110 mm; T (f<sup>0</sup>-c<sup>4</sup>): 120 mm]

|                      |        |   |
|----------------------|--------|---|
| Bourdon              | 16'    | C-e <sup>0</sup> spruce/fir   |
| Diapason             | 8'     | tts   |
| Flûte traversière    | 8'     | C-H spruce/fir; harmonic from f# <sup>1</sup> ; tts   |
| Bourdon              | 8'     | C-H spruce/fir; c <sup>0</sup> -d# <sup>3</sup> chimney flute; e <sup>3</sup> -c <sup>4</sup> conical   |
| Viole de Gambe       | 8'     | tts   |
| Voix céleste         | 8'     | from c <sup>0</sup> ; tts   |
| Octave               | 4'     | tts   |
| Flûte octavante      | 4'     | harmonic from f <sup>0</sup> ; tts  |
| Nazard harmonique    | 2 2/3' | harmonic from f <sup>0</sup> -d# <sup>3</sup> ; tts   |
| Octavin              | 2'     | harmonic from F-c <sup>3</sup> ; tts  |
| Tierce harmonique    | 1 3/5' | harmonic from G#-c <sup>2</sup> ; tts   |
| Fourniture (2')      | IV     | tts   |
| Cymbale (1/2')       | III    | (no tts)  |
| Bombarde             | 16'    | Bertouneche shallots  |
| Trompette harmonique | 8'     | Bertouneche shallots; f# <sup>3</sup> -c <sup>4</sup> flue pipes  |
| Basson-Hautbois      | 8'     | C-h <sup>0</sup> tear drop shallots with brass covering; from c <sup>1</sup> Bertouneche shallots; f# <sup>3</sup> -c <sup>4</sup> flue pipes |
| Voix humaine         | 8'     | Bertouneche shallots; f# <sup>3</sup> -c <sup>4</sup> flue pipes  |
| Clairon harmonique   | 4'     | Bertouneche shallots; f# <sup>2</sup> -c <sup>4</sup> flue pipes  |
| Trémolo              |        |   |

**ORCHESTRE EXPRESSIF** (Manual IV)[wind pressures: B (C-f<sup>0</sup>): 130 mm; T (f#<sup>0</sup>-c<sup>4</sup>): 130 mm]

|                           |     |  |
|---------------------------|-----|--|
| Violonbasse               | 16' | C-h <sup>0</sup> spruce/fir; tts   |
| Corno dolce               | 16' | spruce/fir/maple; stopped; c <sup>0</sup> -c <sup>4</sup> inside lips  |
| Violon                    | 8'  | tts  |
| Flûte d'Orchestre         | 8'  | C-f <sup>2</sup> spruce/fir; c <sup>0</sup> -c <sup>4</sup> double labium; f# <sup>2</sup> -c <sup>4</sup> metal                                   |
| Bourdon doux              | 8'  | C-H spruce/fir; c <sup>0</sup> -h <sup>0</sup> maple; c <sup>1</sup> -c <sup>3</sup> metal, chimney flute; c# <sup>3</sup> -c <sup>4</sup> conical |
| Quintaton                 | 8'  |  |
| Éolienne                  | 8'  | tts  |
| Voix angélique            | 8'  | from c <sup>0</sup> ; tts  |
| Viole                     | 4'  | tts  |
| Flûte d'Écho              | 4'  | C-c <sup>3</sup> maple; inside lips; c# <sup>3</sup> -c <sup>4</sup> metal, conical; C-H tts   |
| Piccolo                   | 2'  | tts  |
| Harmonia aethera (2 2/3') | III | tts  |
| Clarinete                 | 8'  | free reed; c# <sup>3</sup> -c <sup>4</sup> flue pipes, 2 ranks   |
| Physharmonica             | 16' | free reed, separately enclosed within the Orchestre division, with Windschweller   |
| Physharmonica             | 8'  | free reed, separately enclosed within the Orchestre division, with Windschweller   |

**SOLO EXPRESSIF** (\*floating)

[wind pressure: 130 / 300 mm]

|                     |    |   |
|---------------------|----|---|
| Cor d'Harmonie      | 8' | 300 mm; C-b <sup>1</sup> French Horn from Skinner Organ Company, op. 310 (1920) formerly in Plymouth Church of Shaker Heights, Cleveland, OH; h <sup>1</sup> -c <sup>4</sup> Rieger, large scaled open, metal flute, harmonic |
| Violoncelle         | 8' | 130 mm  |
| Violoncelle céleste | 8' | 130 mm; from c <sup>0</sup>   |
| Cor anglais         | 8' | 130 mm; C-h <sup>0</sup> German, thick-walled shallots c <sup>1</sup> -g <sup>3</sup> Bertouneche shallots  |

|              |     |   |
|--------------|-----|---|
| Tuba magna   | 16' | 300 mm; extension from Tuba 8'; C–H Rieger, German, thick-walled shallots; weighted tongues   |
| Tuba         | 8'  | 300 mm; Tuba from Skinner Organ Company, op. 310 (1920) formerly in Plymouth Church of Shaker Heights, Cleveland, OH; German, thick-walled shallots; weighted tongues   |
| Tuba Clairon | 4'  | 300 mm; extension from Tuba 8'; c <sup>3</sup> –c <sup>4</sup> from Skinner Organ Company, op. 310; c <sup>3</sup> German, thick-walled shallot; weighted tongue; c# <sup>3</sup> –c <sup>4</sup> flue pipes (1 rank) |
| Trémolo      |     |   |

### **BOMBARDE** ('floating')

|                       |     |                              |
|-----------------------|-----|------------------------------|
| Cor d'Harmonie (SOLO) | 8'  |                              |
| Tuba magna (SOLO)     | 16' |                              |
| Tuba (SOLO)           | 8'  |                              |
| Tuba Clairon (SOLO)   | 4'  |                              |
| Trompette en Chamade  | 8'  | 130 mm; Bertounèche shallots |

### **PÉDALE EXPRESSIF**

|                           |     |                                  |
|---------------------------|-----|----------------------------------|
| Basse acoustique          | 32' | from Corno dolce 16' (ORCHESTRE) |
| Violonbasse (ORCHESTRE)   | 16' |                                  |
| Corno dolce (ORCHESTRE)   | 16' |                                  |
| Violoncelle (SOLO)        | 8'  |                                  |
| Violon (ORCHESTRE)        | 8'  |                                  |
| Corno dolce               | 8'  | from Corno dolce 16' (ORCHESTRE) |
| Physharmonica (ORCHESTRE) | 16' |                                  |
| Tuba magna (SOLO)         | 16' |                                  |
| Tuba (SOLO)               | 8'  |                                  |
| Tuba Clairon (SOLO)       | 4'  |                                  |

### **PÉDALE**

[wind pressure: 100 mm]

|                                  |         |  |
|----------------------------------|---------|--|
| Basse acoustique [32' + 21 1/3'] | 64'     |  |
| Grand Bourdon                    | 32'     | C–g <sup>0</sup> spruce/fir; pipes underneath the floor of the audience; wind pressure 140 mm  |
| Soubasse                         | 32'     | spruce/fir   |
| Grosse Flûte                     | 16'     | C–g <sup>0</sup> spruce/fir; tts; pipes underneath the floor of the audience; wind pressure 140 mm   |
| Flûte                            | 16'     | fir; tts   |
| Montre (GRAND ORGUE)             | 16'     |  |
| Soubasse                         | 16'     | spruce/fir   |
| Grosse Quinte                    | 10 2/3' | C–A fir; tts   |
| Flûte                            | 8'      | C–H fir; tts   |
| Principal                        | 8'      | tts  |
| Grande Tierce                    | 6 2/5'  | tts  |
| Quinte                           | 5 1/3'  | tts  |
| Grande Septième                  | 4 4/7'  | tts  |
| Flûte                            | 4'      | tts  |
| Bombarde                         | 32'     | C–H resonators spruce/fir; Bertounèche shallots with leather covering; c <sup>0</sup> –g <sup>1</sup> extension from Bombarde 16' Bertounèche C–g <sup>0</sup> |
| Bombarde                         | 16'     | Bertounèche shallots   |
| Basson                           | 16'     | wooden shallots, no leather covering   |
| Trompette                        | 8'      | shallots   |
| Clairon                          | 4'      | Bertounèche shallots   |

## STOPS WITH TUNING AND TIMBRE SLOTS

The tuning and timbre slots in open pipes are basically applied up to 1/2' (see 'tts'-indications in the specification). Flutes have slot widths of 1/5 diameter, principals 1/4 diameter width and strings 1/3 diameter width. The distance from the top of the slot to the top of the pipe is 1/1 diameter in Grand Orgue, Récit and Orchestre. The distance from the top of the slot to the top of the pipe is 1/2–3/4 diameter in the Positif. The metal reed resonators have regulating slots in the bass.

## BREAKS IN MUTATION STOPS OF THE POSITIF

These breaks are inserted in order to limit the highest pitch to 2' on h<sup>3</sup> and c<sup>4</sup> (i.e. about 9 kHz)

## COMPASS

Manuels: C–c<sup>4</sup>

Pedal: C–g<sup>1</sup>

## TWO CONSOLES

Mechanical action console, built-in (movable in up- and downwards direction)

Remote, mobile console (electric, either digital or proportional key and stop action)

## NUMBER OF STOPS

112 stops, incl. 15 transmissions and 3 extended stops (i.e. 94 real stops)

## COUPLERS (plus 4 free adjustable couplers)

| unison manual couplers |           |           | 16'–manual couplers |
|------------------------|-----------|-----------|---------------------|
| POS/G.O.               | SOLO/G.O. | BOMB/G.O. | G.O./PÉD            |
| RÉC/G.O.               | SOLO/POS  | BOMB/POS  | POS/PÉD             |
| ORCH/G.O.              | SOLO/RÉC  | BOMB/RÉC  | RÉC/PÉD             |
| RÉC/POS                | SOLO/ORCH | BOMB/ORCH | ORCH/PÉD            |
| ORCH/POS               |           |           |                     |
| ORCH/RÉC               |           |           |                     |

  

| unison pedal couplers | 4'–pedal couplers | electric manual couplers in mechanical console |
|-----------------------|-------------------|--|
| G.O./PÉD              | G.O./PÉD          | POS/G.O.                                       |
| POS/PÉD               | POS/PÉD           | RÉC/G.O.                                       |
| RÉC/PÉD               | RÉC/PÉD           | RÉC/POS  |
| ORCH/PÉD              | ORCH/PÉD          |  |
| SOLO/PÉD              |                   |  |
| BOMB/PÉD              |                   |  |

16' / 8' / 4'–couplers off

Coupeure PÉD (divided pedal, i.e. a part of the pedal compass can be disconnected from the coupler, the range can be chosen)

Orchestra IV off

## RÉCIT SWELL: TWO MODES

French mode: swell shutters positioned according to French 19th-century tradition

Orchestral mode: swell shutters positioned according to modern practice

## **SWELL PEDALS (3 different orders for the swell pedals in the console can be assigned)**

G.O. flexible wind  
Positif swell  
Récit swell  
Orchestre/Solo swell  
Physharmonica swell  
Crescendo (register crescendo)  
General (swell shutters in the podium back wall)

## **COMBINATION SYSTEM AND OTHER FUNCTIONS**

Rieger's combination system  
Rieger's tuning system  
Rieger's replay system (record and replay function, includes music, registrations and swell devices and their positions)  
MIDI (Musical Instrument Digital Interface, enabling communication with digital devices, for example a digital score)  
Sostenuto (the last key or chords which the player pushed down keep[s] sounding until a new key or chord is played); works on every manual separately but not on the pedal  
4 register crescendi (with a range of 0–60 steps): 1) general; 2) French 19–20th-century; 3) German romantic; 4) limited (only up to *f*)

## **PITCH AND TEMPERAMENT**

$a^1 = 442 \text{ Hz}$  (21,5 °C)  
equal temperament

## **WIND SUPPLY SYSTEM**

2 main reservoir bellows (diaphragm reservoirs with weights)  
1 bellows Grand Orgue (with flexible wind pressure), diaphragm reservoir with weights  
2 bellows Positif (bass: regulator bellows built-in underneath the windchests; treble diaphragm reservoirs with weights)  
2 bellows Récit (bass: regulator bellows built-in underneath the windchests; treble diaphragm reservoirs with weights)  
2 bellows Orchestre/Solo (bass: 2 regulator bellows built-in underneath the windchests; treble diaphragm reservoirs with weights)  
1 bellows high wind pressure Orchestre/Solo/Bombarde/Pédale expressif  
2 bellows Pédale (2 regulator bellows built-in underneath the windchests for C- and C#-side)  
1 bellows for the 2 Pedal stops underneath the floor of the audience.

The following divisions have concussion bellows: Grand Orgue, Positif (treble), Récit (treble), Orchestre (treble), and high wind pressure Orchestre/Solo/Bombarde/Pédale expressif.

2 main blowers  
1 blower for the Grand Orgue  
1 blower for the high wind pressure stops (Orchestre, Solo, Bombarde, Pédale expressif)  
1 blower for the 2 Pedal stops underneath the floor of the audience

## **PERCUSSION [prepared for, in two floating sets which can be assigned to any of the 5 divisions]**

Chimes  
Harp 8'  
Celesta 4'  
Glockenspiel  
Drum Roll  
Drum Crash

## MIXTURE COMPOSITIONS

### GRAND ORGUE

Fourniture V (identical with Cavaillé-Coll, Orléans, Cathedral, 1880)

| <b>C</b> | <b>f<sup>0</sup></b> | <b>f<sup>1</sup></b> |  | <b>f<sup>2</sup></b> |
|----------|----------------------|----------------------|--|----------------------|
| 2        | 4                    | 8                    |  | 16                   |
| 1 1/3    | 2 2/3                | 5 1/3                |  | 10 2/3               |
| 1        | 2                    | 4                    |  | 8                    |
| 2/3      | 1 1/3                | 2 2/3                |  | 5 1/3                |
| 1/2      | 1                    | 2                    |  | 4                    |

Cymbale IV

| <b>C</b> | <b>f<sup>0</sup></b> | <b>f<sup>1</sup></b> | <b>c<sup>2</sup></b> | <b>f<sup>2</sup></b> |
|----------|----------------------|----------------------|----------------------|----------------------|
| 1        | 1 1/3                | 2 2/3                | 4                    | 8                    |
| 2/3      | 1                    | 2                    | 2 2/3                | 4                    |
| 1/2      | 2/3                  | 1 1/3                | 2                    | 2 2/3                |
| 1/3      | 1/2                  | 1                    | 1 1/3                | 2                    |

Fourniture V + Cymbale IV

| <b>C</b> | <b>f<sup>0</sup></b> | <b>f<sup>1</sup></b> | <b>c<sup>2</sup></b> | <b>f<sup>2</sup></b> |
|----------|----------------------|----------------------|----------------------|----------------------|
| 2        | 4                    | 8                    | 8                    | 16                   |
| 1 1/3    | 2 2/3                | 5 1/3                | 5 1/3                | 10 2/3               |
| 1        | 2                    | 4                    | 4                    | 8                    |
| 1        | 1 1/3                | 2 2/3                | 4                    | 8                    |
| 2/3      | 1 1/3                | 2 2/3                | 2 2/3                | 5 1/3                |
| 2/3      | 1                    | 2                    | 2 2/3                | 4                    |
| 1/2      | 1                    | 2                    | 2                    | 4                    |
| 1/2      | 2/3                  | 1 1/3                | 2                    | 2 1/3                |
| 1/3      | 1/2                  | 1                    | 1 1/3                | 2                    |

### POSITIF

Plein Jeu IV

| <b>C</b> | <b>c<sup>0</sup></b> | <b>c<sup>1</sup></b> | <b>c<sup>2</sup></b> | <b>c<sup>3</sup></b> |
|----------|----------------------|----------------------|----------------------|----------------------|
| 1 1/3    | 2                    | 2 2/3                | 4                    | 8                    |
| 1        | 1 1/3                | 2                    | 2 2/3                | 4                    |
| 2/3      | 1                    | 1 1/3                | 2                    | 2 2/3                |
| 1/2      | 2/3                  | 1                    | 1 1/3                | 2                    |

## RÉCIT

### Fourniture IV

| <b>C</b> | <b>c<sup>0</sup></b> |  | <b>c<sup>1</sup></b> |  | <b>c<sup>2</sup></b> |  | <b>c<sup>3</sup></b> | <b>g#<sup>3</sup></b> |
|----------|----------------------|--|----------------------|--|----------------------|--|----------------------|-----------------------|
| 2        | 2 2/3                |  | 4                    |  | 8                    |  | 8                    | 16                    |
| 1 1/3    | 2                    |  | 2 2/3                |  | 4                    |  | 8                    | 8                     |
| 1        | 1 1/3                |  | 2                    |  | 2 2/3                |  | 4                    | 4                     |
| 2/3      | 1                    |  | 1 1/3                |  | 2                    |  | 2 2/3                | 2 2/3                 |

### Cymbale III (identical with Pleyel-Cavaillé-Coll, Paris, Ste. Trinité, 1934/35)

| <b>C</b> | <b>c<sup>0</sup></b> | <b>f<sup>0</sup></b> | <b>c<sup>1</sup></b> | <b>f<sup>1</sup></b> | <b>c<sup>2</sup></b> | <b>f<sup>2</sup></b> |
|----------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 1/2      | 2/3                  | 1                    | 1 1/3                | 2                    | 2 2/3                | 4                    |
| 1/3      | 1/2                  | 2/3                  | 1                    | 1 1/3                | 2                    | 2 2/3                |
| 1/4      | 1/3                  | 1/2                  | 2/3                  | 1                    | 1 1/3                | 2                    |

### Fourniture IV + Cymbale III

| <b>C</b> | <b>c<sup>0</sup></b> | <b>f<sup>0</sup></b> | <b>c<sup>1</sup></b> | <b>f<sup>1</sup></b> | <b>c<sup>2</sup></b> | <b>f<sup>2</sup></b> | <b>c<sup>3</sup></b> | <b>g#<sup>3</sup></b> |
|----------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|
| 2        | 2 2/3                | 2 2/3                | 4                    | 4                    | 8                    | 8                    | 8                    | 16                    |
| 1 1/3    | 2                    | 2                    | 2 2/3                | 2 2/3                | 4                    | 4                    | 8                    | 8                     |
| 1        | 1 1/3                | 1 1/3                | 2                    | 2                    | 2 2/3                | 4                    | 4                    | 4                     |
| 2/3      | 1                    | 1                    | 1 1/3                | 2                    | 2 2/3                | 2 2/3                | 4                    | 4                     |
| 1/2      | 2/3                  | 1                    | 1 1/3                | 1 1/3                | 2                    | 2 2/3                | 2 2/3                | 2 2/3                 |
| 1/3      | 1/2                  | 2/3                  | 1                    | 1 1/3                | 2                    | 2                    | 2 2/3                | 2 2/3                 |
| 1/4      | 1/3                  | 1/2                  | 2/3                  | 1                    | 1 1/3                | 2                    | 2                    | 2                     |

## ORCHESTRE

### Harmonia aethera III

| <b>C</b> | <b>c<sup>1</sup></b> | <b>c<sup>2</sup></b> | <b>c<sup>3</sup></b> |
|----------|----------------------|----------------------|----------------------|
| 2 2/3    | 3 1/5                | 4                    | 8                    |
| 2        | 2 2/3                | 3 1/5                | 5 1/3                |
| 1 3/5    | 2                    | 2 2/3                | 4                    |



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# The project groups

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Göteborgs Symfoniker – en del av



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