

# Pneumatik- och Funktionskopplingar



**PIVAC**

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Ett Bra Grepp!

## CHARACTERISTICS

|                    |                                                                                                                                         |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Temperature        | -20 ÷ 80 °C (based on the type of tube)                                                                                                 |
| Fluid              | compressed air, vacuum                                                                                                                  |
| Max pressure       | 15 bar                                                                                                                                  |
| Working pressure   | -0,99 ÷ 10 bar                                                                                                                          |
| Body               | technopolymer                                                                                                                           |
| Fixing elements    | nickel-plated brass with O-ring in NBR for parallel thread version (standard)<br>teflon coating for taper thread version (upon request) |
| Clamp              | stainless steel                                                                                                                         |
| Release ring       | technopolymer                                                                                                                           |
| Application fields | pneumatic circuits                                                                                                                      |
| Recommended hoses  | polyamide PA 10.12, polyurethane Sh.A98, co-polyurethane Sh.55D                                                                         |

### HA02

Smooth body straight parallel male



|          | Ø  | connection |
|----------|----|------------|
| HA0204M5 | 4  | M5         |
| HA0206M5 | 6  | M5         |
| HA020418 | 4  | G1/8       |
| HA020618 | 6  | G1/8       |
| HA020818 | 8  | G1/8       |
| HA020414 | 4  | G1/4       |
| HA020614 | 6  | G1/4       |
| HA020814 | 8  | G1/4       |
| HA021014 | 10 | G1/4       |
| HA020838 | 8  | G3/8       |
| HA021038 | 10 | G3/8       |
| HA021238 | 12 | G3/8       |
| HA021012 | 10 | G1/2       |
| HA021212 | 12 | G1/2       |

### HA04

Straight parallel male



|          | Ø  | connection |
|----------|----|------------|
| HA0404M5 | 4  | M5         |
| HA0406M5 | 6  | M5         |
| HA040418 | 4  | G1/8       |
| HA040618 | 6  | G1/8       |
| HA040818 | 8  | G1/8       |
| HA040414 | 4  | G1/4       |
| HA040614 | 6  | G1/4       |
| HA040814 | 8  | G1/4       |
| HA041014 | 10 | G1/4       |
| HA040838 | 8  | G3/8       |
| HA041038 | 10 | G3/8       |
| HA041238 | 12 | G3/8       |
| HA041012 | 10 | G1/2       |
| HA041212 | 12 | G1/2       |

### HA06

Plastic straight parallel male



|          | Ø  | connection |
|----------|----|------------|
| HA060618 | 6  | G1/8       |
| HA060818 | 8  | G1/8       |
| HA060614 | 6  | G1/4       |
| HA060814 | 8  | G1/4       |
| HA061014 | 10 | G1/4       |
| HA060838 | 8  | G3/8       |
| HA061038 | 10 | G3/8       |
| HA061238 | 12 | G3/8       |
| HA061012 | 10 | G1/2       |
| HA061212 | 12 | G1/2       |

### HA07

Straight female



|          | Ø  | connection |
|----------|----|------------|
| HA070418 | 4  | G1/8       |
| HA070618 | 6  | G1/8       |
| HA070818 | 8  | G1/8       |
| HA070614 | 6  | G1/4       |
| HA070814 | 8  | G1/4       |
| HA071014 | 10 | G1/4       |
| HA070838 | 8  | G3/8       |
| HA071038 | 10 | G3/8       |
| HA071238 | 12 | G3/8       |
| HA071212 | 12 | G1/2       |

### HA08

Swivel elbow female



|          | Ø  | connection |
|----------|----|------------|
| HA080418 | 4  | G1/8       |
| HA080618 | 6  | G1/8       |
| HA080818 | 8  | G1/8       |
| HA080614 | 4  | G1/4       |
| HA080814 | 8  | G1/4       |
| HA081014 | 10 | G1/4       |
| HA080838 | 8  | G3/8       |
| HA081038 | 10 | G3/8       |
| HA081238 | 12 | G3/8       |
| HA081212 | 12 | G1/2       |

### HA10B

Low elbow



|           | Ø  | connection |
|-----------|----|------------|
| HA10B04M5 | 4  | M5         |
| HA10B06M5 | 6  | M5         |
| HA10B0418 | 4  | G1/8       |
| HA10B0618 | 6  | G1/8       |
| HA10B0818 | 8  | G1/8       |
| HA10B0414 | 4  | G1/4       |
| HA10B0614 | 6  | G1/4       |
| HA10B0814 | 8  | G1/4       |
| HA10B1014 | 10 | G1/4       |
| HA10B0838 | 8  | G3/8       |
| HA10B1038 | 10 | G3/8       |
| HA10B1238 | 12 | G3/8       |
| HA10B1012 | 10 | G1/2       |
| HA10B1212 | 12 | G1/2       |

NEW

### HA12

Extended swivel elbow parallel male



|          | Ø  | connection |
|----------|----|------------|
| HA1204M5 | 4  | M5         |
| HA1206M5 | 6  | M5         |
| HA120418 | 4  | G1/8       |
| HA120618 | 6  | G1/8       |
| HA120818 | 8  | G1/8       |
| HA120414 | 4  | G1/4       |
| HA120614 | 6  | G1/4       |
| HA120814 | 8  | G1/4       |
| HA121014 | 10 | G1/4       |
| HA120638 | 6  | G3/8       |
| HA120838 | 8  | G3/8       |
| HA121038 | 10 | G3/8       |
| HA121238 | 12 | G3/8       |
| HA121012 | 10 | G1/2       |
| HA121212 | 12 | G1/2       |

### HA12B

Extended swivel low elbow parallel male



NEW

|           | Ø  | connection |
|-----------|----|------------|
| HA12B04M5 | 4  | M5         |
| HA12B06M5 | 6  | M5         |
| HA12B0418 | 4  | G1/8       |
| HA12B0618 | 6  | G1/8       |
| HA12B0818 | 8  | G1/8       |
| HA12B0414 | 4  | G1/4       |
| HA12B0614 | 6  | G1/4       |
| HA12B0814 | 8  | G1/4       |
| HA12B1014 | 10 | G1/4       |
| HA12B0638 | 6  | G3/8       |
| HA12B0838 | 8  | G3/8       |
| HA12B1038 | 10 | G3/8       |
| HA12B1238 | 12 | G3/8       |
| HA12B1012 | 10 | G1/2       |
| HA12B1212 | 12 | G1/2       |

### HA14

Lateral Tee male



|          | Ø  | connection |
|----------|----|------------|
| HA1404M5 | 4  | M5         |
| HA1406M5 | 6  | M5         |
| HA140418 | 4  | G1/8       |
| HA140618 | 6  | G1/8       |
| HA140818 | 8  | G1/8       |
| HA140614 | 6  | G1/4       |
| HA140814 | 8  | G1/4       |
| HA141014 | 10 | G1/4       |
| HA140838 | 8  | G3/8       |
| HA141038 | 10 | G3/8       |
| HA141238 | 12 | G3/8       |
| HA141012 | 10 | G1/2       |
| HA141212 | 12 | G1/2       |

### HA14B

Low lateral Tee male



NEW

|           | Ø  | connection |
|-----------|----|------------|
| HA14B04M5 | 4  | M5         |
| HA14B06M5 | 6  | M5         |
| HA14B0418 | 4  | G1/8       |
| HA14B0618 | 6  | G1/8       |
| HA14B0818 | 8  | G1/8       |
| HA14B0614 | 6  | G1/4       |
| HA14B0814 | 8  | G1/4       |
| HA14B1014 | 10 | G1/4       |
| HA14B0838 | 8  | G3/8       |
| HA14B1038 | 10 | G3/8       |
| HA14B1238 | 12 | G3/8       |
| HA14B1012 | 10 | G1/2       |
| HA14B1212 | 12 | G1/2       |

### HA16

Central Tee male



|          | Ø  | connection |
|----------|----|------------|
| HA1604M5 | 4  | M5         |
| HA1606M5 | 6  | M5         |
| HA160418 | 4  | G1/8       |
| HA160618 | 6  | G1/8       |
| HA160818 | 8  | G1/8       |
| HA160614 | 6  | G1/4       |
| HA160814 | 8  | G1/4       |
| HA161014 | 10 | G1/4       |
| HA160838 | 8  | G3/8       |
| HA161038 | 10 | G3/8       |
| HA161238 | 12 | G3/8       |
| HA161012 | 10 | G1/2       |
| HA161212 | 12 | G1/2       |

### HA16B

Low central Tee male



NEW

|           | Ø  | connection |
|-----------|----|------------|
| HA16B04M5 | 4  | M5         |
| HA16B06M5 | 6  | M5         |
| HA16B0418 | 4  | G1/8       |
| HA16B0618 | 6  | G1/8       |
| HA16B0818 | 8  | G1/8       |
| HA16B0614 | 6  | G1/4       |
| HA16B0814 | 8  | G1/4       |
| HA16B1014 | 10 | G1/4       |
| HA16B0838 | 8  | G3/8       |
| HA16B1038 | 10 | G3/8       |
| HA16B1238 | 12 | G3/8       |
| HA16B1012 | 10 | G1/2       |
| HA16B1212 | 12 | G1/2       |

### HA18

Y parallel male



|          | Ø  | connection |
|----------|----|------------|
| HA1804M5 | 4  | M5         |
| HA1806M5 | 6  | M5         |
| HA180418 | 4  | G1/8       |
| HA180618 | 6  | G1/8       |
| HA180818 | 8  | G1/8       |
| HA180614 | 6  | G1/4       |
| HA180814 | 8  | G1/4       |
| HA181014 | 10 | G1/4       |
| HA180838 | 8  | G3/8       |
| HA181038 | 10 | G3/8       |
| HA181238 | 12 | G3/8       |
| HA181012 | 10 | G1/2       |
| HA181212 | 12 | G1/2       |

### HA19

Intermediate straight



|          | Ø1 | Ø2 |
|----------|----|----|
| HA190400 | 4  | 4  |
| HA190600 | 6  | 6  |
| HA190604 | 6  | 4  |
| HA190800 | 8  | 8  |
| HA190806 | 8  | 6  |
| HA191000 | 10 | 10 |
| HA191008 | 10 | 8  |
| HA191200 | 12 | 12 |
| HA191210 | 12 | 10 |

### HA20

Intermediate elbow



|          | Ø  |
|----------|----|
| HA200400 | 4  |
| HA200600 | 6  |
| HA200800 | 8  |
| HA201000 | 10 |
| HA201200 | 12 |

### HA21

Intermediate lateral Tee



|          | Ø  |
|----------|----|
| HA210400 | 4  |
| HA210600 | 6  |
| HA210800 | 8  |
| HA211000 | 10 |
| HA211200 | 12 |

### HA22

Intermediate cross



|          | Ø  |
|----------|----|
| HA220400 | 4  |
| HA220600 | 6  |
| HA220800 | 8  |
| HA221000 | 10 |
| HA221200 | 12 |

### HA23

Intermediate Y connector



|          | Ø1 | Ø2 |
|----------|----|----|
| HA230404 | 4  | 4  |
| HA230604 | 6  | 4  |
| HA230606 | 6  | 6  |
| HA230806 | 8  | 6  |
| HA230808 | 8  | 8  |
| HA231008 | 10 | 8  |
| HA231010 | 10 | 10 |
| HA231210 | 12 | 10 |
| HA231212 | 12 | 12 |

### HA24

Reducing stem



|          | Ø1 | Ø2 |
|----------|----|----|
| HA240406 | 4  | 6  |
| HA240408 | 4  | 8  |
| HA240608 | 6  | 8  |
| HA240610 | 6  | 10 |
| HA240810 | 8  | 10 |
| HA240812 | 8  | 12 |
| HA241012 | 10 | 12 |

### HA25

Y connector with male stem



|          | Ø  |
|----------|----|
| HA250400 | 4  |
| HA250600 | 6  |
| HA250800 | 8  |
| HA251000 | 10 |
| HA251200 | 12 |

### HA26

Plug



|          | Ø  |
|----------|----|
| HA260400 | 4  |
| HA260600 | 6  |
| HA260800 | 8  |
| HA261000 | 10 |
| HA261200 | 12 |

### HA27

Swivel banjo connector (parallel male thread) with wrench head



|          | Ø  | connection |
|----------|----|------------|
| HA2704M5 | 4  | M5         |
| HA2706M5 | 6  | M5         |
| HA270418 | 4  | G1/8       |
| HA270618 | 6  | G1/8       |
| HA270818 | 8  | G1/8       |
| HA270614 | 6  | G1/4       |
| HA270814 | 8  | G1/4       |
| HA271014 | 10 | G1/4       |
| HA270838 | 8  | G3/8       |
| HA271038 | 10 | G3/8       |
| HA271238 | 12 | G3/8       |
| HA271012 | 10 | G1/2       |
| HA271212 | 12 | G1/2       |

### HA28

Swivel banjo connector parallel male-female



|          | Ø  | connection |
|----------|----|------------|
| HA2804M5 | 4  | M5         |
| HA2806M5 | 6  | M5         |
| HA280418 | 4  | G1/8       |
| HA280618 | 6  | G1/8       |
| HA280818 | 8  | G1/8       |
| HA280614 | 6  | G1/4       |
| HA280814 | 8  | G1/4       |
| HA281014 | 10 | G1/4       |
| HA280838 | 8  | G3/8       |
| HA281038 | 10 | G3/8       |
| HA281238 | 12 | G3/8       |
| HA281012 | 10 | G1/2       |
| HA281212 | 12 | G1/2       |

### HA29

Triple branch lateral Tee



|          | Ø |
|----------|---|
| HA290400 | 4 |
| HA290600 | 6 |
| HA290800 | 8 |

### HA30

Triple branch lateral Tee



|          | Ø1 | Ø2 |
|----------|----|----|
| HA300604 | 6  | 4  |
| HA300804 | 8  | 4  |
| HA300806 | 8  | 6  |
| HA301006 | 10 | 6  |
| HA301008 | 10 | 8  |

### HA31

Triple branch lateral Tee male thread



|          | Ø1 | Ø2 | connection |
|----------|----|----|------------|
| HA314618 | 6  | 4  | G1/8       |
| HA314814 | 8  | 4  | G1/4       |
| HA316814 | 8  | 6  | G1/4       |
| HA318138 | 10 | 8  | G3/8       |
| HA318112 | 10 | 8  | G1/2       |

### HA32

Triple branch lateral Tee male thread



|          | Ø | connection |
|----------|---|------------|
| HA320418 | 4 | G1/8       |
| HA320618 | 6 | G1/8       |
| HA320818 | 8 | G1/8       |
| HA320414 | 4 | G1/4       |
| HA320614 | 6 | G1/4       |
| HA320814 | 8 | G1/4       |
| HA320638 | 6 | G3/8       |
| HA320838 | 8 | G3/8       |



### HA33

Bulkhead connector



|          | Ø  |
|----------|----|
| HA330004 | 4  |
| HA330006 | 6  |
| HA330008 | 8  |
| HA330010 | 10 |
| HA330012 | 12 |

### HA34

Threaded bulkhead connector



|          | Ø  | connection |
|----------|----|------------|
| HA340418 | 4  | G1/8       |
| HA340618 | 6  | G1/8       |
| HA340818 | 8  | G1/8       |
| HA340414 | 4  | G1/4       |
| HA340614 | 6  | G1/4       |
| HA340814 | 8  | G1/4       |
| HA341014 | 10 | G1/4       |
| HA340838 | 8  | G3/8       |
| HA341038 | 10 | G3/8       |
| HA341238 | 12 | G3/8       |
| HA341012 | 10 | G1/2       |
| HA341212 | 12 | G1/2       |

### HA35

Elbow bulkhead connector



|          | Ø  |
|----------|----|
| HA350004 | 4  |
| HA350006 | 6  |
| HA350008 | 8  |
| HA350010 | 10 |
| HA350012 | 12 |

### HA38

Stem elbow



|          | Ø  |
|----------|----|
| HA380400 | 4  |
| HA380600 | 6  |
| HA380800 | 8  |
| HA381000 | 10 |
| HA381200 | 12 |

### HA39

Intermediate double Y



|          | Ø1 | Ø2 |
|----------|----|----|
| HA390604 | 6  | 4  |
| HA390804 | 8  | 4  |
| HA390806 | 8  | 6  |
| HA390808 | 8  | 8  |

NEW

### HA40

Double Y parallel male



|          | Ø  | connection |
|----------|----|------------|
| HA400418 | 4  | G1/8       |
| HA400618 | 6  | G1/8       |
| HA400818 | 8  | G1/8       |
| HA400614 | 6  | G1/4       |
| HA400814 | 8  | G1/4       |
| HA401014 | 10 | G1/4       |
| HA400638 | 6  | G3/8       |
| HA400838 | 8  | G3/8       |
| HA400612 | 6  | G1/2       |
| HA400812 | 8  | G1/2       |

NEW

### HA41

Swivel banjo connector (parallel thread) with allen head



|          | Ø  | connection |
|----------|----|------------|
| HA410418 | 4  | G1/8       |
| HA410618 | 6  | G1/8       |
| HA410818 | 8  | G1/8       |
| HA410414 | 4  | G1/4       |
| HA410614 | 6  | G1/4       |
| HA410814 | 8  | G1/4       |
| HA411014 | 10 | G1/4       |
| HA411214 | 12 | G1/4       |
| HA410438 | 4  | G3/8       |
| HA410638 | 6  | G3/8       |
| HA410838 | 8  | G3/8       |
| HA411038 | 10 | G3/8       |
| HA411238 | 12 | G3/8       |
| HA410812 | 8  | G1/2       |
| HA411012 | 10 | G1/2       |
| HA411212 | 12 | G1/2       |

NEW

### HA42

Double banjo connector (parallel thread) with allen head



|          | Ø  | connection |
|----------|----|------------|
| HA420418 | 4  | G1/8       |
| HA420618 | 6  | G1/8       |
| HA420818 | 8  | G1/8       |
| HA420414 | 4  | G1/4       |
| HA420614 | 6  | G1/4       |
| HA420814 | 8  | G1/4       |
| HA421014 | 10 | G1/4       |
| HA421214 | 12 | G1/4       |
| HA420438 | 4  | G3/8       |
| HA420638 | 6  | G3/8       |
| HA420838 | 8  | G3/8       |
| HA421038 | 10 | G3/8       |
| HA421238 | 12 | G3/8       |
| HA420812 | 8  | G1/2       |
| HA421012 | 10 | G1/2       |
| HA421212 | 12 | G1/2       |

NEW

### HA43

Triple banjo connector (parallel thread) with allen head



|          | Ø  | connection |
|----------|----|------------|
| HA430418 | 4  | G1/8       |
| HA430618 | 6  | G1/8       |
| HA430818 | 8  | G1/8       |
| HA430414 | 4  | G1/4       |
| HA430614 | 6  | G1/4       |
| HA430814 | 8  | G1/4       |
| HA431014 | 10 | G1/4       |
| HA431214 | 12 | G1/4       |
| HA430438 | 4  | G3/8       |
| HA430638 | 6  | G3/8       |
| HA430838 | 8  | G3/8       |
| HA431038 | 10 | G3/8       |
| HA431238 | 12 | G3/8       |
| HA430812 | 8  | G1/2       |
| HA431012 | 10 | G1/2       |
| HA431212 | 12 | G1/2       |

NEW

### Teflon coated taper

thread

(available upon request  
for all HA models)


### HC01/HC02



### HC04



### HC01T/HC02T



### HC01L/HC02L



## CHARACTERISTICS

|                    |                                                                 |
|--------------------|-----------------------------------------------------------------|
| Temperature        | 0 ÷ 60 °C                                                       |
| Fluid              | compressed air, vacuum                                          |
| Working pressure   | -0,99 ÷ 9 bar                                                   |
| Body               | technopolymer                                                   |
| Fixing elements    | nickel-plated brass with O-ring in NBR                          |
| Clamp              | stainless steel                                                 |
| Release ring       | technopolymer                                                   |
| Application fields | pneumatic circuits                                              |
| Recommended hoses  | polyamide PA 10.12, polyurethane Sh.A98, co-polyurethane Sh.55D |

### ■ HAR04

Miniature straight male



|           | Ø | connection |
|-----------|---|------------|
| HAR0403M3 | 3 | M3         |
| HAR0404M3 | 4 | M3         |
| HAR0404M5 | 4 | M5         |

### ■ HAR10B

Miniature swivel elbow male



|            | Ø | connection |
|------------|---|------------|
| HAR10B03M3 | 3 | M3         |
| HAR10B04M3 | 4 | M3         |
| HAR10B04M5 | 4 | M5         |

### ■ HAR12B

Miniature extended swivel elbow male



|            | Ø | connection |
|------------|---|------------|
| HAR12B03M3 | 3 | M3         |
| HAR12B04M3 | 4 | M3         |
| HAR12B04M5 | 4 | M5         |

### ■ HAR14

Miniature low lateral Tee male



|            | Ø | connection |
|------------|---|------------|
| HAR14B03M3 | 3 | M3         |
| HAR14B04M3 | 4 | M3         |
| HAR14B04M5 | 4 | M5         |

### ■ HAR16

Miniature low central Tee male



|            | Ø | connection |
|------------|---|------------|
| HAR16B03M3 | 3 | M3         |
| HAR16B04M3 | 4 | M3         |
| HAR16B04M5 | 4 | M5         |

### ■ HAR19

Miniature intermediate straight



|           | Ø |
|-----------|---|
| HAR190300 | 3 |
| HAR190400 | 4 |

### ■ HAR20

Miniature intermediate elbow



|           | Ø |
|-----------|---|
| HAR200300 | 3 |
| HAR200400 | 4 |

### ■ HAR21

Miniature intermediate Tee



|           | Ø |
|-----------|---|
| HAR210300 | 3 |
| HAR210400 | 4 |

### ■ HAR23

Miniature intermediate Y



|           | Ø |
|-----------|---|
| HAR230300 | 3 |
| HAR230400 | 4 |

## CHARACTERISTICS

|                    |                                                                                                                                         |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Temperature        | -20 ÷ 70 °C (based on the type of tube)                                                                                                 |
| Fluid              | compressed air, vacuum                                                                                                                  |
| Max pressure       | 16 bar                                                                                                                                  |
| Working pressure   | -0,99 ÷ 10 bar                                                                                                                          |
| Body               | nickel-plated brass                                                                                                                     |
| Fixing elements    | nickel-plated brass with O-ring in NBR for parallel thread version (standard)<br>Teflon coating for taper thread version (upon request) |
| Clamp              | stainless steel AISI 316                                                                                                                |
| Release ring       | nickel-plated brass                                                                                                                     |
| Application fields | pneumatic circuits                                                                                                                      |
| Recommended hoses  | polyamide PA 10.12, polyurethane Sh.A98, co-polyurethane Sh.55D                                                                         |

### HB04

Straight parallel male



| Ø        | connection | Ø        | connection |
|----------|------------|----------|------------|
| HB0403M3 | 3 M3       | HB040514 | 5 G1/4     |
| HB0403M5 | 3 M5       | HB040414 | 4 G1/4     |
| HB0404M5 | 4 M5       | HB041438 | 14 G3/8    |
| HB0405M5 | 5 M5       | HB041238 | 12 G3/8    |
| HB0406M5 | 6 M5       | HB041038 | 10 G3/8    |
| HB041018 | 10 G1/8    | HB040838 | 8 G3/8     |
| HB040818 | 8 G1/8     | HB040638 | 6 G3/8     |
| HB040618 | 6 G1/8     | HB041412 | 14 G1/2    |
| HB040518 | 5 G1/8     | HB041212 | 12 G1/2    |
| HB040418 | 4 G1/8     | HB041012 | 10 G1/2    |
| HB041214 | 12 G1/4    | HB040812 | 8 G1/2     |
| HB041014 | 10 G1/4    |          |            |
| HB040814 | 8 G1/4     |          |            |
| HB040614 | 6 G1/4     |          |            |

### HB07

Straight female



| Ø        | connection |
|----------|------------|
| HB0704M5 | 4 M5       |
| HB070418 | 4 G1/8     |
| HB070518 | 5 G1/8     |
| HB070618 | 6 G1/8     |
| HB070818 | 8 G1/8     |
| HB071038 | 10 G3/8    |
| HB070414 | 4 G1/4     |
| HB070514 | 5 G1/4     |
| HB070614 | 6 G1/4     |
| HB070814 | 8 G1/4     |
| HB071014 | 10 G1/4    |

### HB08

Swivel elbow female



| Ø        | connection |
|----------|------------|
| HB080418 | 4 G1/8     |
| HB080618 | 6 G1/8     |
| HB080818 | 8 G1/8     |
| HB080414 | 4 G1/4     |
| HB080614 | 6 G1/4     |
| HB080814 | 8 G1/4     |

### HB10

Swivel elbow male



| Ø        | connection | Ø        | connection |
|----------|------------|----------|------------|
| HB1004M5 | 4 M5       | HB100838 | 8 G3/8     |
| HB1005M5 | 5 M5       | HB101038 | 10 G3/8    |
| HB1006M5 | 6 M5       | HB101238 | 12 G3/8    |
| HB100418 | 4 G1/8     | HB101438 | 14 G3/8    |
| HB100518 | 5 G1/8     | HB101012 | 10 G1/2    |
| HB100618 | 6 G1/8     | HB101212 | 12 G1/2    |
| HB100818 | 8 G1/8     | HB101412 | 14 G1/2    |
| HB100414 | 4 G1/4     |          |            |
| HB100514 | 5 G1/4     |          |            |
| HB100614 | 6 G1/4     |          |            |
| HB100814 | 8 G1/4     |          |            |
| HB101014 | 10 G1/4    |          |            |
| HB101214 | 12 G1/4    |          |            |
| HB100638 | 6 G3/8     |          |            |

### HB12

Extended swivel elbow male



| Ø        | connection |
|----------|------------|
| HB1204M5 | 4 M5       |
| HB1206M5 | 6 M5       |
| HB120418 | 4 G1/8     |
| HB120618 | 6 G1/8     |
| HB120818 | 8 G1/8     |
| HB120414 | 4 G1/4     |
| HB120614 | 6 G1/4     |
| HB120814 | 8 G1/4     |
| HB121014 | 10 G1/4    |
| HB120838 | 8 G3/8     |
| HB121038 | 10 G3/8    |

### HB14

Lateral Tee parallel male



| Ø        | connection |
|----------|------------|
| HB1404M5 | 4 M5       |
| HB140418 | 4 G1/8     |
| HB140618 | 6 G1/8     |
| HB140818 | 8 G1/8     |
| HB140414 | 4 G1/4     |
| HB140614 | 6 G1/4     |
| HB140814 | 8 G1/4     |
| HB141014 | 10 G1/4    |
| HB141214 | 12 G1/4    |
| HB140838 | 8 G3/8     |
| HB141038 | 10 G3/8    |
| HB141238 | 12 G3/8    |
| HB141412 | 14 G1/2    |

### HB16

Central Tee male



| Ø        | connection |
|----------|------------|
| HB1604M5 | 4 M5       |
| HB160418 | 4 G1/8     |
| HB160618 | 6 G1/8     |
| HB160818 | 8 G1/8     |
| HB160414 | 4 G1/4     |
| HB160614 | 6 G1/4     |
| HB160814 | 8 G1/4     |
| HB161014 | 10 G1/4    |
| HB161214 | 12 G1/4    |
| HB160838 | 8 G3/8     |
| HB161038 | 10 G3/8    |
| HB161238 | 12 G3/8    |
| HB161412 | 14 G1/2    |

### HB19

Straight



| Ø1       | Ø2    |
|----------|-------|
| HB190303 | 3 3   |
| HB190404 | 4 4   |
| HB190505 | 5 5   |
| HB190604 | 6 4   |
| HB190606 | 6 6   |
| HB190806 | 8 6   |
| HB190808 | 8 8   |
| HB191008 | 10 8  |
| HB191010 | 10 10 |
| HB191210 | 12 10 |
| HB191212 | 12 12 |
| HB191412 | 14 12 |
| HB191414 | 14 14 |

## HB20

Intermediate elbow



|          | Ø  |
|----------|----|
| HB200300 | 3  |
| HB200400 | 4  |
| HB200500 | 5  |
| HB200600 | 6  |
| HB200800 | 8  |
| HB201000 | 10 |
| HB201200 | 12 |
| HB201400 | 14 |

## HB21

Intermediate Tee



|          | Ø1 | Ø2 |
|----------|----|----|
| HB210300 | 3  | 3  |
| HB210400 | 4  | 4  |
| HB210500 | 5  | 5  |
| HB210600 | 6  | 6  |
| HB210604 | 6  | 4  |
| HB210800 | 8  | 8  |
| HB210806 | 8  | 6  |
| HB211000 | 10 | 10 |
| HB211008 | 10 | 8  |
| HB211200 | 12 | 12 |
| HB211400 | 14 | 14 |

## HB24

Reducing stem



|          | Ø1 | Ø2 |          | Ø1 | Ø2 |
|----------|----|----|----------|----|----|
| HB240405 | 4  | 5  | HB240612 | 6  | 12 |
| HB240406 | 4  | 6  | HB240614 | 6  | 14 |
| HB240408 | 4  | 8  | HB240806 | 8  | 6  |
| HB240412 | 4  | 12 | HB240810 | 8  | 10 |
| HB240414 | 4  | 14 | HB240812 | 8  | 12 |
| HB240506 | 5  | 6  | HB240814 | 8  | 14 |
| HB240508 | 5  | 8  | HB241012 | 10 | 12 |
| HB240604 | 6  | 4  | HB241014 | 10 | 14 |
| HB240608 | 6  | 8  | HB241214 | 12 | 14 |
| HB240610 | 6  | 10 |          |    |    |

## HB26

Plug



|          | Ø  |
|----------|----|
| HB260400 | 4  |
| HB260500 | 5  |
| HB260600 | 6  |
| HB260800 | 8  |
| HB261000 | 10 |
| HB261200 | 12 |
| HB261400 | 14 |

## HB27

Swivel banjo connector (parallel thread) with allen head



|          | Ø | connection |          | Ø  | connection |
|----------|---|------------|----------|----|------------|
| HB2703M3 | 3 | M3         | HB270614 | 6  | G1/4       |
| HB2703M5 | 3 | M5         | HB270814 | 8  | G1/4       |
| HB2704M5 | 4 | M5         | HB271014 | 10 | G1/4       |
| HB2705M5 | 5 | M5         | HB271214 | 12 | G1/4       |
| HB270418 | 4 | G1/8       | HB270838 | 8  | G3/8       |
| HB270518 | 5 | G1/8       | HB271038 | 10 | G3/8       |
| HB270618 | 6 | G1/8       | HB271238 | 12 | G3/8       |
| HB270818 | 8 | G1/8       |          |    |            |

## HB33

Bulkhead connector



|          | Ø  |
|----------|----|
| HB330004 | 4  |
| HB330005 | 5  |
| HB330006 | 6  |
| HB330008 | 8  |
| HB330010 | 10 |
| HB330012 | 12 |
| HB330014 | 14 |

## HB34

Threaded bulkhead connector



| Ø        | connection |
|----------|------------|
| HB340418 | 4 G1/8     |
| HB340618 | 6 G1/8     |
| HB340818 | 8 G1/8     |
| HB340614 | 6 G1/4     |
| HB340814 | 8 G1/4     |

## HB35

Elbow bulkhead connector



|          | Ø  |
|----------|----|
| HB350004 | 4  |
| HB350006 | 6  |
| HB350008 | 8  |
| HB350010 | 10 |

## HB38

Stem elbow



|          | Ø1 | Ø2 |
|----------|----|----|
| HB380400 | 4  | 4  |
| HB380406 | 4  | 6  |
| HB380600 | 6  | 6  |
| HB380608 | 6  | 8  |
| HB380800 | 8  | 8  |
| HB381000 | 10 | 10 |
| HB381200 | 12 | 12 |

## HB39

Extended stem elbow



|          | Ø1 | Ø2 |
|----------|----|----|
| HB390400 | 4  | 4  |
| HB390406 | 4  | 6  |
| HB390600 | 6  | 6  |
| HB390608 | 6  | 8  |
| HB390800 | 8  | 8  |

**HB40**

Single banjo (without bolt)



|          | Ø  | bolt |
|----------|----|------|
| HB4004M5 | 4  | M5   |
| HB4005M5 | 5  | M5   |
| HB4006M5 | 6  | M5   |
| HB400418 | 4  | G1/8 |
| HB400518 | 5  | G1/8 |
| HB400618 | 6  | G1/8 |
| HB400818 | 8  | G1/8 |
| HB400614 | 6  | G1/4 |
| HB400814 | 8  | G1/4 |
| HB401014 | 10 | G1/4 |
| HB401214 | 12 | G1/4 |
| HB400838 | 8  | G3/8 |
| HB401038 | 10 | G3/8 |
| HB401238 | 12 | G3/8 |

**HB41**

Double banjo (without bolt)



|          | Ø  | bolt |
|----------|----|------|
| HB4104M5 | 4  | M5   |
| HB4105M5 | 5  | M5   |
| HB410418 | 4  | G1/8 |
| HB410518 | 5  | G1/8 |
| HB410618 | 6  | G1/8 |
| HB410818 | 8  | G1/8 |
| HB410614 | 6  | G1/4 |
| HB410814 | 8  | G1/4 |
| HB411014 | 10 | G1/4 |
| HB410838 | 8  | G3/8 |
| HB411038 | 10 | G3/8 |
| HB411238 | 12 | G3/8 |

**HB42**

Single banjo bolt



|          | connection |
|----------|------------|
| HB4200M5 | M5         |
| HB420018 | G1/8       |
| HB420014 | G1/4       |
| HB420038 | G3/8       |

**HB43**

Double banjo bolt



|          | connection |
|----------|------------|
| HB430018 | G1/8       |
| HB430014 | G1/4       |
| HB430038 | G3/8       |

**HB44**

Triple banjo bolt



|          | connection |
|----------|------------|
| HB440018 | G1/8       |
| HB440014 | G1/4       |
| HB440038 | G3/8       |

**HB45**

Swivel banjo central Tee (parallel male) with allen head



|          | Ø  | connection |
|----------|----|------------|
| HB4504M5 | 4  | M5         |
| HB4505M5 | 5  | M5         |
| HB450418 | 4  | G1/8       |
| HB450518 | 5  | G1/8       |
| HB450618 | 6  | G1/8       |
| HB450818 | 8  | G1/8       |
| HB450614 | 6  | G1/4       |
| HB450814 | 8  | G1/4       |
| HB451014 | 10 | G1/4       |
| HB450838 | 8  | G3/8       |
| HB451038 | 10 | G3/8       |
| HB451238 | 12 | G3/8       |

**HB47**

Double swivel banjo connector (male thread) with allen head



|          | Ø  | connection |
|----------|----|------------|
| HB470418 | 4  | G1/8       |
| HB470618 | 6  | G1/8       |
| HB470818 | 8  | G1/8       |
| HB470614 | 6  | G1/4       |
| HB470814 | 8  | G1/4       |
| HB471014 | 10 | G1/4       |
| HB471214 | 12 | G1/4       |

**HB48**

Triple swivel banjo connector (parallel thread) with allen head



|          | Ø  | connection |
|----------|----|------------|
| HB480418 | 4  | G1/8       |
| HB480618 | 6  | G1/8       |
| HB480818 | 8  | G1/8       |
| HB480614 | 6  | G1/4       |
| HB480814 | 8  | G1/4       |
| HB481014 | 10 | G1/4       |
| HB481214 | 12 | G1/4       |

**HB49**

Double stem



|          | Ø  |
|----------|----|
| HB490400 | 4  |
| HB490500 | 5  |
| HB490600 | 6  |
| HB490800 | 8  |
| HB491000 | 10 |
| HB491200 | 12 |
| HB491400 | 14 |

**HB51**

Adaptor parallel male



|          | Ø  | connection |          | Ø  | connection |
|----------|----|------------|----------|----|------------|
| HB5104M5 | 4  | M5         | HB510614 | 6  | G1/4       |
| HB5105M5 | 5  | M5         | HB510814 | 8  | G1/4       |
| HB5106M5 | 6  | M5         | HB511014 | 10 | G1/4       |
| HB510418 | 4  | G1/8       | HB511214 | 12 | G1/4       |
| HB510518 | 5  | G1/8       | HB510838 | 8  | G3/8       |
| HB510618 | 6  | G1/8       | HB511038 | 10 | G3/8       |
| HB510818 | 8  | G1/8       | HB511238 | 12 | G3/8       |
| HB511018 | 10 | G1/8       | HB511438 | 14 | G3/8       |
| HB510414 | 4  | G1/4       | HB511212 | 12 | G1/2       |
| HB510514 | 5  | G1/4       | HB511412 | 14 | G1/2       |

**HB53**

Fixed elbow taper male



|          | Ø  | connection |
|----------|----|------------|
| HB530418 | 4  | R1/8       |
| HB530518 | 5  | R1/8       |
| HB530618 | 6  | R1/8       |
| HB530818 | 8  | R1/8       |
| HB530614 | 6  | R1/4       |
| HB530814 | 8  | R1/4       |
| HB531014 | 10 | R1/4       |



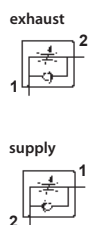
## CHARACTERISTICS

|                    |                                                                                                                                         |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Temperature        | -20 ÷ 80 °C (based on the type of tube)                                                                                                 |
| Fluid              | compressed air, vacuum                                                                                                                  |
| Max pressure       | 15 bar                                                                                                                                  |
| Working pressure   | -0,99 ÷ 10 bar                                                                                                                          |
| Body               | technopolymer                                                                                                                           |
| Fixing elements    | nickel-plated brass with O-ring in NBR for parallel thread version (standard)<br>Teflon coating for taper thread version (upon request) |
| Clamp              | stainless steel                                                                                                                         |
| Release ring       | technopolymer                                                                                                                           |
| Application fields | pneumatic circuits                                                                                                                      |
| Recommended hoses  | polyamide PA 10.12, polyurethane Sh.A98, co-polyurethane Sh.55D                                                                         |

## Flow regulators in technopolymer

### HC01/HC02

One-way banjo flow regulator



| exhaust  | supply   | Ø  | connection |
|----------|----------|----|------------|
| HC0104M5 | HC0204M5 | 4  | M5         |
| HC0106M5 | HC0206M5 | 6  | M5         |
| HC010418 | HC020418 | 4  | G1/8       |
| HC010618 | HC020618 | 6  | G1/8       |
| HC010818 | HC020818 | 8  | G1/8       |
| HC010414 | HC020414 | 4  | G1/4       |
| HC010614 | HC020614 | 6  | G1/4       |
| HC010814 | HC020814 | 8  | G1/4       |
| HC011014 | HC021014 | 10 | G1/4       |
| HC010838 | HC020838 | 8  | G3/8       |
| HC011038 | HC021038 | 10 | G3/8       |
| HC011238 | HC021238 | 12 | G3/8       |
| HC011012 | HC021012 | 10 | G1/2       |
| HC011212 | HC021212 | 12 | G1/2       |

### HC01L /HC02L

One-way in-line swivel banjo flow regulator



NEW



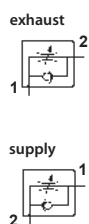
| exhaust   | supply    | Ø  | connection |
|-----------|-----------|----|------------|
| HC01L0418 | HC02L0418 | 4  | G1/8       |
| HC01L0618 | HC02L0618 | 6  | G1/8       |
| HC01L0818 | HC02L0818 | 8  | G1/8       |
| HC01L0414 | HC02L0414 | 4  | G1/4       |
| HC01L0614 | HC02L0614 | 6  | G1/4       |
| HC01L0814 | HC02L0814 | 8  | G1/4       |
| HC01L1014 | HC02L1014 | 10 | G1/4       |
| HC01L1214 | HC02L1214 | 12 | G1/4       |
| HC01L1038 | HC02L1038 | 10 | G3/8       |
| HC01L1238 | HC02L1238 | 12 | G3/8       |

### HC01T/HC02T

One-way swivel banjo flow regulator - screwdriver slot



NEW



| exhaust   | supply    | Ø  | connection |
|-----------|-----------|----|------------|
| HC01T0418 | HC02T0418 | 4  | G1/8       |
| HC01T0618 | HC02T0618 | 6  | G1/8       |
| HC01T0818 | HC02T0818 | 8  | G1/8       |
| HC01T1018 | HC02T1018 | 10 | G1/8       |
| HC01T1218 | HC02T1218 | 12 | G1/8       |
| HC01T0614 | HC02T0614 | 6  | G1/4       |
| HC01T0814 | HC02T0814 | 8  | G1/4       |
| HC01T1014 | HC02T1014 | 10 | G1/4       |
| HC01T1214 | HC02T1214 | 12 | G1/4       |
| HC01T0638 | HC02T0638 | 6  | G3/8       |
| HC01T0838 | HC02T0838 | 8  | G3/8       |
| HC01T1038 | HC02T1038 | 10 | G3/8       |
| HC01T1238 | HC02T1238 | 12 | G3/8       |

### HC04

One-way in-line intermediate flow regulator



|          | Ø1 |
|----------|----|
| HC040404 | 4  |
| HC040606 | 6  |
| HC040808 | 8  |
| HC041010 | 10 |
| HC041212 | 12 |

## CHARACTERISTICS

|                  |                |
|------------------|----------------|
| Temperature      | 0 ÷ 70 °C      |
| Fluid            | compressed air |
| Max pressure     | 10 bar         |
| Working pressure | 0,3 ÷ 10 bar   |

## Flow regulators with metallic body

### HC21/HC22

One-way banjo flow regulator



|         | exhaust  | supply   | Ø  | connection |
|---------|----------|----------|----|------------|
| exhaust | HC2104M5 | HC2204M5 | 4  | M5         |
|         | HC210418 | HC220418 | 4  | G1/8       |
|         | HC210618 | HC220618 | 6  | G1/8       |
|         | HC210818 | HC220818 | 8  | G1/8       |
|         | HC210614 | HC220614 | 6  | G1/4       |
|         | HC210814 | HC220814 | 8  | G1/4       |
| supply  | HC211014 | HC221014 | 10 | G1/4       |

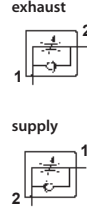


### HC18/HC19

One-way banjo flow regulator - screwdriver slot



|         | exhaust  | supply   | Ø  | connection |
|---------|----------|----------|----|------------|
| exhaust | HC1804M5 | HC1904M5 | 4  | M5         |
|         | HC180418 | HC190418 | 4  | G1/8       |
|         | HC180618 | HC190618 | 6  | G1/8       |
|         | HC180818 | HC190818 | 8  | G1/8       |
|         | HC180614 | HC190614 | 6  | G1/4       |
|         | HC180814 | HC190814 | 8  | G1/4       |
| supply  | HC181014 | HC191014 | 10 | G1/4       |



### HC27/HC28

One-way threaded flow regulator male/female



|         | exhaust  | supply   | connection |
|---------|----------|----------|------------|
| exhaust | HC27M5M5 | HC28M5M5 | M5         |
|         | HC271818 | HC281818 | G1/8       |
|         | HC271414 | HC281414 | G1/4       |
|         | HC273838 | HC283838 | G3/8       |
|         | HC271212 | HC281212 | G1/2       |



## Non-return valve

### HC13

Non-return valve F-F



|          | connection |
|----------|------------|
| HC1300M5 | M5         |
| HC130018 | G1/8       |
| HC130014 | G1/4       |
| HC130038 | G3/8       |
| HC130012 | G1/2       |



High temperature seals upon request

### HC14

Non-return valve F-M



|          | connection |
|----------|------------|
| HC140018 | G1/8       |
| HC140014 | G1/4       |



High temperature seals upon request

### HC15

Non-return valve with push-in tube connections



|          | Ø |
|----------|---|
| HC150004 | 4 |
| HC150006 | 6 |
| HC150008 | 8 |



### HC16

Non-return valve with push-in tube connections



|          | Ø  |
|----------|----|
| HC160404 | 4  |
| HC160606 | 6  |
| HC160808 | 8  |
| HC161010 | 10 |
| HC161212 | 12 |



NEW

### HC17

Non-return valve threaded connection



|          | Ø  | connection |
|----------|----|------------|
| HC170418 | 4  | G1/8       |
| HC170618 | 6  | G1/8       |
| HC170818 | 8  | G1/8       |
| HC170614 | 6  | G1/4       |
| HC170814 | 8  | G1/4       |
| HC171038 | 10 | G3/8       |
| HC171238 | 12 | G3/8       |
| HC171012 | 10 | G1/2       |
| HC171212 | 12 | G1/2       |



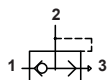
NEW

## Quick exhaust valves

### HC06

Quick exhaust valve

flow rate at 6 bar (NI/min)

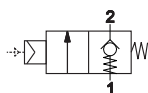


|          | connection | 1→2  | 2→3    |
|----------|------------|------|--------|
| HC0600M5 | M5         | 220  | 300    |
| HC060018 | G1/8       | 680  | 1100   |
| HC060014 | G1/4       | 1200 | 2100   |
| HC060038 | G3/8       | 2300 | 4800   |
| HC060012 | G1/2       | 3400 | 6100   |
| HC060034 | G3/4       | 3200 | 8750   |
| HC060001 | G1         | 2900 | 10.750 |

## Blocking valve

## Miniature pressure regulator

### HC34

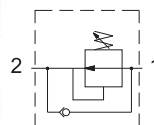


|          | M    | F    | flow rate at 6 bar (NI/min) |
|----------|------|------|-----------------------------|
| HC3418M5 | G1/8 | M5   | 400                         |
| HC341418 | G1/4 | M5   | 850                         |
| HC343818 | G3/8 | G1/8 | 1250                        |
| HC341218 | G1/2 | G1/8 | 1800                        |

HB40 Single banjo  
(without bolt)



### HC35



|          | connection | flow rate at 6 bar (NI/min) |
|----------|------------|-----------------------------|
| HC350018 | G1/8       | 580                         |
| HC350014 | G1/4       | 750                         |

HB40 Single banjo  
(without bolt)



## CHARACTERISTICS

Temperature

0 ÷ 70 °C

Fluid

0 ÷ 60 °C (technopolymer HC11-12)

Max pressure

compressed air, vacuum

Working pressure

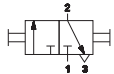
15 bar

-0,99 ÷ 10 bar

## Line manual valve

### HC05

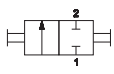
Slide valve



|          | connection |
|----------|------------|
| HC0500M5 | M5         |
| HC050018 | G1/8       |
| HC050014 | G1/4       |
| HC050038 | G3/8       |
| HC050012 | G1/2       |
| HC050034 | G3/4       |

### HC07

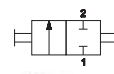
Ball valve F-F



|          | connection |
|----------|------------|
| HC070018 | G1/8       |
| HC070014 | G1/4       |
| HC070038 | G3/8       |
| HC070012 | G1/2       |
| HC070034 | G3/4       |

### HC08

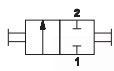
Ball valve M-F



|          | connection |
|----------|------------|
| HC080018 | G1/8       |
| HC080014 | G1/4       |
| HC080038 | G3/8       |
| HC080012 | G1/2       |
| HC080034 | G3/4       |

### HC09

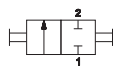
Miniature ball valve F-F with black handle



|          | connection |
|----------|------------|
| HC090018 | G1/8       |
| HC090014 | G1/4       |

### HC10

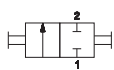
Miniature ball valve M-F with black handle



|          | connection |
|----------|------------|
| HC100018 | G1/8       |
| HC100014 | G1/4       |

### HC11

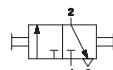
Manual 2/2 minivalve



|          | Ø  |
|----------|----|
| HC110606 | 6  |
| HC110808 | 8  |
| HC111010 | 10 |
| HC111212 | 12 |

### HC12

Manual 3/2 minivalve



|          | Ø  |
|----------|----|
| HC120606 | 6  |
| HC120808 | 8  |
| HC121010 | 10 |
| HC121212 | 12 |

## Silencers

### ■ HC51

Sintered bronze flat silencer



|          | connection |
|----------|------------|
| HC5100M5 | M5         |
| HC510018 | G1/8       |
| HC510014 | G1/4       |
| HC510038 | G3/8       |
| HC510012 | G1/2       |
| HC510034 | G3/4       |
| HC510001 | G1         |
| HC510112 | G1 1/2     |

### ■ HC52

Sintered bronze cone silencer



|          | connection |
|----------|------------|
| HC5200M5 | M5         |
| HC520018 | G1/8       |
| HC520014 | G1/4       |
| HC520038 | G3/8       |
| HC520012 | G1/2       |
| HC520034 | G3/4       |
| HC520001 | G1         |

### ■ HC53

Sintered bronze cone silencer  
(with square wrench head)



|          | connection |
|----------|------------|
| HC5300M5 | M5         |
| HC530018 | G1/8       |
| HC530014 | G1/4       |
| HC530038 | G3/8       |
| HC530012 | G1/2       |
| HC530034 | G3/4       |
| HC530001 | G1         |

### ■ HC54

Silencer with exhaust flow regulator (narrow)



|          | connection |
|----------|------------|
| HC5400M5 | M5         |
| HC540018 | G1/8       |
| HC540014 | G1/4       |
| HC540038 | G3/8       |
| HC540012 | G1/2       |
| HC540034 | G3/4       |
| HC540001 | G1         |

### ■ HC55

Silencer with exhaust flow regulator



|          | connection |
|----------|------------|
| HC5500M5 | M5         |
| HC550018 | G1/8       |
| HC550014 | G1/4       |
| HC550038 | G3/8       |
| HC550012 | G1/2       |
| HC550034 | G3/4       |
| HC550001 | G1         |

### ■ HC56

Technopolymer dynamic silencer



|          | connection |
|----------|------------|
| HC560018 | G1/8       |
| HC560014 | G1/4       |
| HC560038 | G3/8       |
| HC560012 | G1/2       |
| HC560034 | G3/4       |
| HC560001 | G1         |

### ■ HC57

Polyethylene plastic silencer



|          | connection |
|----------|------------|
| HC5700M5 | M5         |
| HC570018 | G1/8       |
| HC570014 | G1/4       |
| HC570038 | G3/8       |
| HC570012 | G1/2       |
| HC570034 | G3/4       |
| HC570001 | G1         |

### ■ HC58

Technopolymer silencer



|          | connection |
|----------|------------|
| HC580018 | G1/8       |
| HC580014 | G1/4       |
| HC580038 | G3/8       |
| HC580012 | G1/2       |
| HC580034 | G3/4       |
| HC580001 | G1         |

### ■ HC59

Silencer with dome-shaped steel head



|          | connection |
|----------|------------|
| HC5900M5 | M5         |
| HC590018 | G1/8       |
| HC590014 | G1/4       |
| HC590038 | G3/8       |
| HC590012 | G1/2       |
| HC590034 | G3/4       |
| HC590001 | G1         |

### ■ HC60

Cone silencer with hexagon nipple



|          | connection |
|----------|------------|
| HC6000M5 | M5         |
| HC600018 | G1/8       |
| HC600014 | G1/4       |
| HC600038 | G3/8       |
| HC600012 | G1/2       |
| HC600034 | G3/4       |
| HC600001 | G1         |
| HC600112 | G1 1/2     |

### ■ HC61

Recessed silencer



|          | connection |
|----------|------------|
| HC6100M5 | M5         |
| HC610018 | G1/8       |
| HC610014 | G1/4       |
| HC610038 | G3/8       |
| HC610012 | G1/2       |
| HC610034 | G3/4       |
| HC610001 | G1         |



## CHARACTERISTICS

|                    |                                                                             |
|--------------------|-----------------------------------------------------------------------------|
| Temperature        | -15 ÷ +80 °C                                                                |
| Max pressure       | 50 bar                                                                      |
| Body               | nickel-plated brass, aluminium, zinc-plated steel                           |
| Application fields | pneumatic circuits, low-pressure oleodynamic and hydraulic circuits, vacuum |

### HD01

Parallel nipple



|          | connection<br>1 | connection<br>2 | key |
|----------|-----------------|-----------------|-----|
| HD01M5M5 | M5              | M5              | 8   |
| HD01M518 | M5              | G1/8            | 14  |
| HD011818 | G1/8            | G1/8            | 14  |
| HD011814 | G1/8            | G1/4            | 17  |
| HD011838 | G1/8            | G3/8            | 19  |
| HD011414 | G1/4            | G1/4            | 17  |
| HD011438 | G1/4            | G3/8            | 19  |
| HD011412 | G1/4            | G1/2            | 24  |
| HD013838 | G3/8            | G3/8            | 19  |
| HD013812 | G3/8            | G1/2            | 24  |
| HD011212 | G1/2            | G1/2            | 24  |
| HD011234 | G1/2            | G3/4            | 30  |
| HD013434 | G3/4            | G3/4            | 30  |

### HD02

Taper nipple



|          | connection<br>1 | connection<br>2 | key |
|----------|-----------------|-----------------|-----|
| HD021818 | R1/8            | R1/8            | 12  |
| HD021814 | R1/8            | R1/4            | 14  |
| HD021838 | R1/8            | R3/8            | 17  |
| HD021414 | R1/4            | R1/4            | 14  |
| HD021438 | R1/4            | R3/8            | 17  |
| HD021412 | R1/4            | R1/2            | 22  |
| HD023838 | R3/8            | R3/8            | 17  |
| HD023812 | R3/8            | R1/2            | 22  |
| HD021212 | R1/2            | R1/2            | 22  |
| HD021234 | R1/2            | R3/4            | 27  |
| HD023434 | R3/4            | R3/4            | 27  |
| HD023401 | R3/4            | R1              | 34  |
| HD020101 | R1              | R1              | 34  |

### HD03

Female socket



|          | connection | key |
|----------|------------|-----|
| HD0300M5 | M5         | 8   |
| HD030018 | G1/8       | 14  |
| HD030014 | G1/4       | 17  |
| HD030038 | G3/8       | 22  |
| HD030012 | G1/2       | 26  |
| HD030034 | G3/4       | 32  |

### HD04

Reduction M-F taper thread



|          | connection<br>M | connection<br>F | key |
|----------|-----------------|-----------------|-----|
| HD041814 | R1/4            | G1/8            | 14  |
| HD041838 | R3/8            | G1/8            | 17  |
| HD041812 | R1/2            | G1/8            | 22  |
| HD041438 | R3/8            | G1/4            | 17  |
| HD041412 | R1/2            | G1/4            | 22  |
| HD043812 | R1/2            | G3/8            | 22  |
| HD043834 | R3/4            | G3/8            | 27  |
| HD041234 | R3/4            | G1/2            | 27  |

### HD05

Reduction M-F parallel thread



|          | connection<br>M | connection<br>F | key |
|----------|-----------------|-----------------|-----|
| HD05M518 | G1/8            | M5              | 14  |
| HD051814 | G1/4            | G1/8            | 17  |
| HD051838 | G3/8            | G1/8            | 19  |
| HD051812 | G1/2            | G1/8            | 24  |
| HD051438 | G3/8            | G1/4            | 19  |
| HD051412 | G1/2            | G1/4            | 24  |
| HD053812 | G1/2            | G3/8            | 24  |
| HD053834 | G3/4            | G3/8            | 30  |
| HD051234 | G3/4            | G1/2            | 30  |

### HD06

Extension M-F taper thread



|          | connection<br>M | connection<br>F | key |
|----------|-----------------|-----------------|-----|
| HD061818 | R1/8            | G1/8            | 14  |
| HD061814 | R1/8            | G1/4            | 17  |
| HD061838 | R1/8            | G3/8            | 22  |
| HD061414 | R1/4            | G1/4            | 17  |
| HD061438 | R1/4            | G3/8            | 22  |
| HD061412 | R1/4            | G1/2            | 24  |
| HD063838 | R3/8            | G3/8            | 22  |
| HD063812 | R3/8            | G1/2            | 24  |
| HD061212 | R1/2            | G1/2            | 26  |
| HD061234 | R1/2            | G3/4            | 32  |

### HD07

Extension M-F parallel thread



|          | connection<br>M | connection<br>F | key |
|----------|-----------------|-----------------|-----|
| HD07M518 | G1/8            | M5              | 14  |
| HD071818 | G1/8            | G1/8            | 14  |
| HD071814 | G1/4            | G1/8            | 17  |
| HD071838 | G3/8            | G1/8            | 22  |
| HD071414 | G1/4            | G1/4            | 17  |
| HD071438 | G3/8            | G1/4            | 22  |
| HD071412 | G1/2            | G1/4            | 24  |
| HD073838 | G3/8            | G3/8            | 22  |
| HD073812 | G1/2            | G3/8            | 24  |
| HD071212 | G1/2            | G1/2            | 26  |

### HD08

Extension M-F parallel thread



|          | connection<br>M-F | key |
|----------|-------------------|-----|
| HD081822 | G1/8              | 14  |
| HD081435 | G1/4              | 17  |
| HD081451 | G1/4              | 17  |

### HD09

Extension F-F



|          | connection<br>1 | connection<br>2 | key |
|----------|-----------------|-----------------|-----|
| HD091814 | G1/8            | G1/4            | 17  |
| HD091838 | G1/8            | G3/8            | 22  |
| HD091812 | G1/8            | G1/2            | 24  |
| HD091438 | G1/4            | G3/8            | 22  |
| HD091412 | G1/4            | G1/2            | 24  |
| HD093812 | G3/8            | G1/2            | 24  |
| HD091234 | G1/2            | G3/4            | 32  |

### HD10

Male plug with hexagon wrench head



|          | connection | key |
|----------|------------|-----|
| HD1000M5 | M5         | 8   |
| HD100018 | G1/8       | 14  |
| HD100014 | G1/4       | 17  |
| HD100038 | G3/8       | 19  |
| HD100012 | G1/2       | 24  |
| HD100034 | G3/4       | 30  |
| HD100001 | G1         | 38  |

### HD11

Male plug (taper thread) with allen head



|          | connection | key |
|----------|------------|-----|
| HD110018 | R1/8       | 5   |
| HD110014 | R1/4       | 6   |
| HD110038 | R3/8       | 8   |
| HD110012 | R1/2       | 10  |

### HD12

Male plug with O-ring (allen head)



|          | connection | key |
|----------|------------|-----|
| HD1200M5 | M5         | 2,5 |
| HD120018 | G1/8       | 5   |
| HD120014 | G1/4       | 6   |
| HD120038 | G3/8       | 8   |
| HD120012 | G1/2       | 10  |

### HD13

Female plug



|          | connection | key |
|----------|------------|-----|
| HD130018 | G1/8       | 14  |
| HD130014 | G1/4       | 17  |
| HD130038 | G3/8       | 20  |
| HD130012 | G1/2       | 24  |

### HD14

Elbow connector F-F



|          | connection | key |
|----------|------------|-----|
| HD1400M5 | M5         | 8   |
| HD140018 | G1/8       | 10  |
| HD140014 | G1/4       | 13  |
| HD140038 | G3/8       | 17  |
| HD140012 | G1/2       | 21  |
| HD140034 | G3/4       | 25  |
| HD140001 | G1         | 30  |

### HD15

Elbow connector M-F



|          | connection<br>1 | connection<br>2 | key |
|----------|-----------------|-----------------|-----|
| HD1500M5 | M5              | M5              | 9   |
| HD150018 | R1/8            | G1/8            | 10  |
| HD151814 | R1/8            | G1/4            | 10  |
| HD150014 | R1/4            | G1/4            | 13  |
| HD150038 | R3/8            | G3/8            | 17  |
| HD150012 | R1/2            | G1/2            | 21  |
| HD150034 | R3/4            | G3/4            | 25  |
| HD150001 | R1              | G1              | 30  |

## HD16

Elbow connector M-M (taper thread)



|          | connection | connection | key |
|----------|------------|------------|-----|
|          | 1          | 2          |     |
| HD1600M5 | M5         | M5         | 9   |
| HD160018 | R1/8       | R1/8       | 10  |
| HD161814 | R1/8       | R1/4       | 10  |
| HD160014 | R1/4       | R1/4       | 13  |
| HD160038 | R3/8       | R3/8       | 17  |
| HD160012 | R1/2       | R1/2       | 21  |
| HD160034 | R3/4       | R3/4       | 25  |
| HD160001 | R1         | R1         | 30  |

## HD17

Intermediate Tee F-F-F (parallel thread)



|          | connection | key |
|----------|------------|-----|
| HD1700M5 | M5         | 9   |
| HD170018 | G1/8       | 10  |
| HD170014 | G1/4       | 13  |
| HD170038 | G3/8       | 17  |
| HD170012 | G1/2       | 21  |
| HD170034 | G3/4       | 25  |
| HD170001 | G1         | 30  |

## HD18

Central Tee M-F-F



|          | connection | connection | key |
|----------|------------|------------|-----|
|          | M          | F          |     |
| HD1800M5 | M5         | M5         | 9   |
| HD180018 | R1/8       | G1/8       | 10  |
| HD180014 | R1/4       | G1/4       | 13  |
| HD180038 | R3/8       | G3/8       | 17  |
| HD180012 | R1/2       | G1/2       | 21  |
| HD180034 | R3/4       | G3/4       | 25  |
| HD180001 | R1         | G1         | 30  |

## HD19

Lateral Tee M-F-F



|          | connection | connection | key |
|----------|------------|------------|-----|
|          | M          | F          |     |
| HD1900M5 | M5         | M5         | 9   |
| HD190018 | R1/8       | G1/8       | 10  |
| HD190014 | R1/4       | G1/4       | 13  |
| HD190038 | R3/8       | G3/8       | 17  |
| HD190012 | R1/2       | G1/2       | 21  |
| HD190034 | R3/4       | G3/4       | 25  |
| HD190001 | R1         | G1         | 30  |

## HD20

Intermediate Tee M-M-M (taper thread)



|          | connection | key |
|----------|------------|-----|
| HD200018 | R1/8       | 10  |
| HD200014 | R1/4       | 13  |
| HD200038 | R3/8       | 17  |
| HD200012 | R1/2       | 21  |
| HD200034 | R3/4       | 25  |
| HD200001 | R1         | 30  |

## HD21

Lateral Tee M-F-M



|          | connection | connection | key |
|----------|------------|------------|-----|
|          | M          | F          |     |
| HD210018 | R1/8       | G1/8       | 10  |
| HD210014 | R1/4       | G1/4       | 13  |
| HD210038 | R3/8       | G3/8       | 17  |
| HD210012 | R1/2       | G1/2       | 21  |
| HD210034 | R3/4       | G3/4       | 25  |
| HD210001 | R1         | G1         | 30  |

## HD22

Cross F-F-F-F



|          | connection | key |
|----------|------------|-----|
| HD220018 | G1/8       | 10  |
| HD220014 | G1/4       | 13  |
| HD220038 | G3/8       | 17  |
| HD220012 | G1/2       | 21  |

## HD24

Tube adaptor (parallel thread)



|          | Ø  | connection | key |
|----------|----|------------|-----|
| HD2404M5 | 4  | M5         | 8   |
| HD240618 | 6  | G1/8       | 12  |
| HD240718 | 7  | G1/8       | 12  |
| HD240818 | 8  | G1/8       | 12  |
| HD240918 | 9  | G1/8       | 12  |
| HD241018 | 10 | G1/8       | 12  |
| HD240614 | 6  | G1/4       | 14  |
| HD240714 | 7  | G1/4       | 14  |
| HD240814 | 8  | G1/4       | 14  |
| HD240914 | 9  | G1/4       | 14  |
| HD241014 | 10 | G1/4       | 14  |
| HD241214 | 12 | G1/4       | 14  |
| HD240938 | 9  | G3/8       | 19  |
| HD241038 | 10 | G3/8       | 19  |

|          | Ø  | connection | key |
|----------|----|------------|-----|
| HD241238 | 12 | G3/8       | 19  |
| HD241438 | 14 | G3/8       | 19  |
| HD241738 | 17 | G3/8       | 19  |
| HD241212 | 12 | G1/2       | 22  |
| HD241412 | 14 | G1/2       | 22  |
| HD241712 | 17 | G1/2       | 22  |
| HD242012 | 20 | G1/2       | 30  |
| HD242034 | 20 | G3/4       | 30  |

## HD25

Y connector F-F-F



|          | connection | key |
|----------|------------|-----|
| HD250018 | G1/8       | 10  |
| HD250014 | G1/4       | 13  |
| HD250038 | G3/8       | 17  |
| HD250012 | G1/2       | 21  |

## HD26

Y connector M-F-F



|          | connection | connection | key |
|----------|------------|------------|-----|
|          | M          | F          |     |
| HD260018 | R1/8       | G1/8       | 13  |
| HD260014 | R1/4       | G1/4       | 17  |
| HD260038 | R3/8       | G3/8       | 20  |
| HD260012 | R1/2       | G1/2       | 25  |

## HD27

Threaded bulkhead connector



|          | connection | key |
|----------|------------|-----|
| HD2700M5 | M5         | 14  |
| HD270018 | G1/8       | 19  |
| HD270014 | G1/4       | 24  |
| HD270038 | G3/8       | 30  |
| HD270012 | G1/2       | 32  |

## HD32

Female single banjo



|          | connection |
|----------|------------|
| HD3200M5 | M5         |
| HD320018 | G1/8       |
| HD320014 | G1/4       |

## HD33

Taper nipple - 3 pieces



|          | connection | key |
|----------|------------|-----|
| HD330018 | R1/8       | 15  |
| HD330014 | R1/4       | 19  |
| HD330038 | R3/8       | 22  |
| HD330012 | R1/2       | 27  |
| HD330034 | R3/4       | 36  |
| HD330001 | R1         | 46  |

## HD34

Female nipple - 3 pieces



|          | connection | key |
|----------|------------|-----|
| HD340018 | G1/8       | 14  |
| HD340014 | G1/4       | 17  |
| HD340038 | G3/8       | 21  |
| HD340012 | G1/2       | 25  |

## HD42

Single banjo bolt



Washer to be used  
HD46 2 pcs

|          | connection | key |
|----------|------------|-----|
| HD4200M5 | M5         | 8   |
| HD420018 | R1/8       | 14  |
| HD420014 | R1/4       | 17  |
| HD420038 | R3/8       | 19  |
| HD420012 | R1/2       | 24  |

## HD43

Double banjo bolt



Washer to be used  
HD46 3 pcs

|          | connection | key |
|----------|------------|-----|
| HD430018 | R1/8       | 14  |
| HD430014 | R1/4       | 17  |
| HD430038 | R3/8       | 19  |
| HD430012 | R1/2       | 24  |

## HD44

Triple banjo bolt



Washer to be used  
HD46 4 pcs

|          | connection | key |
|----------|------------|-----|
| HD440018 | R1/8       | 14  |
| HD440014 | R1/4       | 17  |

## ■ HD45 Aluminium washer



|          | connection | thickness (mm) |
|----------|------------|----------------|
| HD4500M5 | M5         | 1              |
| HD450018 | G1/8       | 1,5            |
| HD450014 | G1/4       | 1,5            |
| HD450038 | G3/8       | 1,5            |
| HD450012 | G1/2       | 1,5            |

## ■ HD46 Indented nylon washer



|          | connection | thickness (mm) |
|----------|------------|----------------|
| HD4600M5 | M5         | 1              |
| HD460018 | G1/8       | 1,6            |
| HD460014 | G1/4       | 1,6            |
| HD460038 | G3/8       | 1,8            |
| HD460012 | G1/2       | 2              |

## Accessories

### ■ HD23 Cross block F-F-F-F



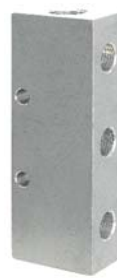
|          | connection |
|----------|------------|
| HD230018 | G1/8       |
| HD230014 | G1/4       |
| HD230038 | G3/8       |
| HD230012 | G1/2       |

### ■ HD30 Distribution manifold (single outlets)



|          | In   | Out  | nr. |
|----------|------|------|-----|
| HD301803 | G1/4 | G1/8 | 3   |
| HD301804 | G1/4 | G1/8 | 4   |
| HD301805 | G1/4 | G1/8 | 5   |
| HD301806 | G1/4 | G1/8 | 6   |
| HD301403 | G3/8 | G1/4 | 3   |
| HD301404 | G3/8 | G1/4 | 4   |
| HD301405 | G3/8 | G1/4 | 5   |
| HD301406 | G3/8 | G1/4 | 6   |
| HD303803 | G1/2 | G3/8 | 3   |
| HD303804 | G1/2 | G3/8 | 4   |
| HD303805 | G1/2 | G3/8 | 5   |
| HD303806 | G1/2 | G3/8 | 6   |

### ■ HD31 Distributors manifold (double outlets)



|          | In   | Out  | nr. |
|----------|------|------|-----|
| HD311803 | G1/4 | G1/8 | 3+3 |
| HD311804 | G1/4 | G1/8 | 4+4 |
| HD311805 | G1/4 | G1/8 | 5+5 |
| HD311403 | G3/8 | G1/4 | 3+3 |
| HD311404 | G3/8 | G1/4 | 4+4 |
| HD311405 | G3/8 | G1/4 | 5+5 |

### ■ HD40 Reservoir (Max pressure 10 bar)



|          |        |
|----------|--------|
| HD400100 | lt 1   |
| HD400250 | lt 2,5 |
| HD400500 | lt 5   |
| HD400700 | lt 7   |
| HD401200 | lt 12  |

### ■ HD410000A Stainless steel AISI 301 bracket



### ■ HD410000B Reservoir extension



### ■ AM50



### ■ AM51



### ■ AM52



### ■ AM53



### ■ AM54



### ■ AM5200



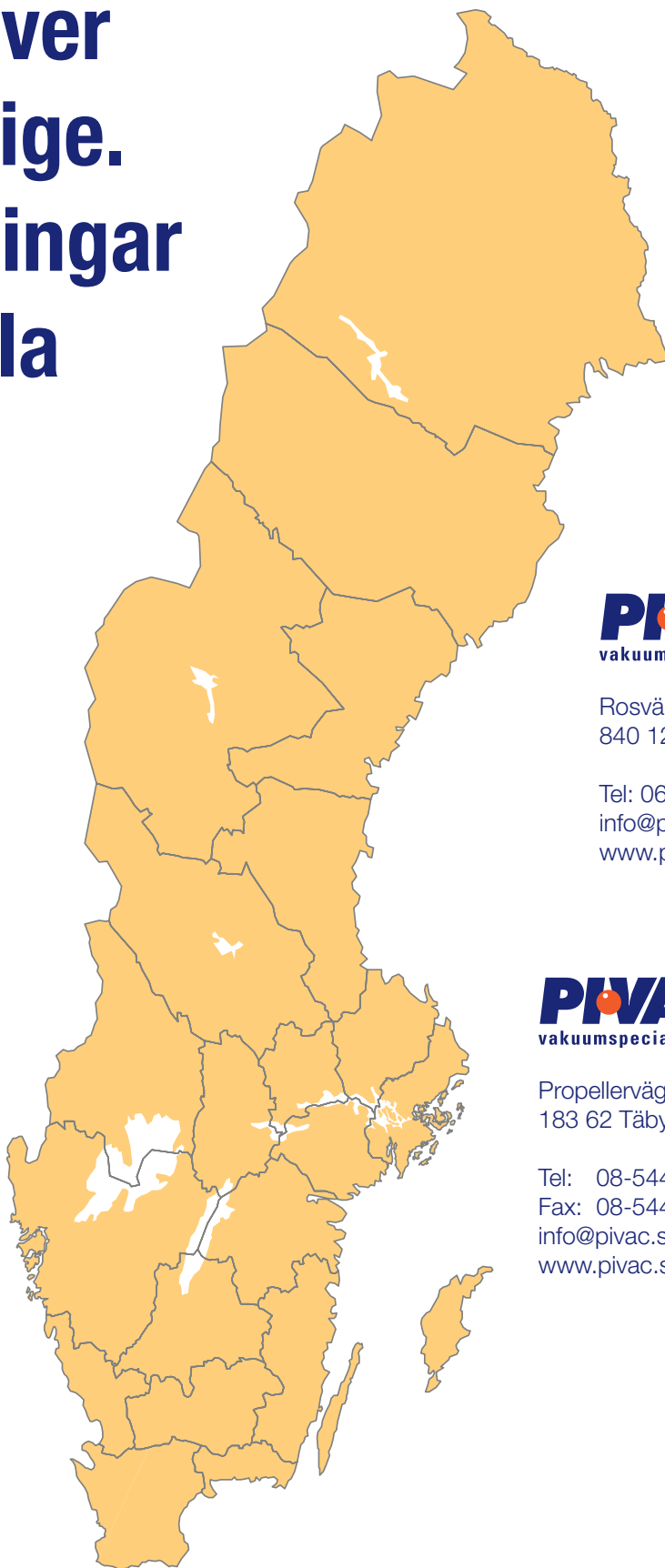
### ■ AM5220



### ■ AM55



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