# Series HP

PREFERRED CHOICE

## Technical chart | Quick coupling systems

| Nominal bore [mm] | Cv value | | Q [L/min] water 20 °C, Δp = 1 bar | | Q [m³/h] air 6 bar, 20 °C, Δp = 1 bar | | p max. permissible static [bar / psi] | | |
|---|---|---|---|---|---|---|---|---|---|
| | EA | BA | EA | BA | EA | BA | Steel | Stainless steel | Stainless steel 1.4404/1.4571 with 1.4418 QT900* |
| | | | | | | | coupled | coupled | coupled |
| 4 | 0.40 | 0.20 | 5.71 | 3.43 | 20.24 | 12.15 | 2,000 / 29,000 | 520 / 7,540 | 1,000 / 14,500 |
| 6 | 1.00 | 0.70 | 14.28 | 9.28 | 50.61 | 32.89 | 1,000 / 14,500 | 345 / 5,000 | 690 / 10,000 |
| 10 | 2.50 | 1.90 | 35.70 | 27.13 | 126.52 | 96.15 | 600 / 8,700 | 345 / 5,000 | 520 / 7,540 |
| 16 | 8.10 | 5.50 | 115.68 | 78.55 | 409.92 | 278.34 | 500 / 7,250 | 250 / 3,625 | 450 / 6,530 |
| 20 | 13.00 | 8.50 | 185.65 | 121.39 | 657.89 | 430.16 | 400 / 5,800 | 210 / 3,045 | 350 / 5,080 |
| 32 | 29.40 | 23.80 | 419.86 | 339.89 | 1,487.84 | 1,204.44 | 300 / 4,350 | 210 / 3,045 | 250 / 3,625 |
| 50 | | 65.00 | | 928.27 | | 3,289.44 | 200 / 2,900 | | |

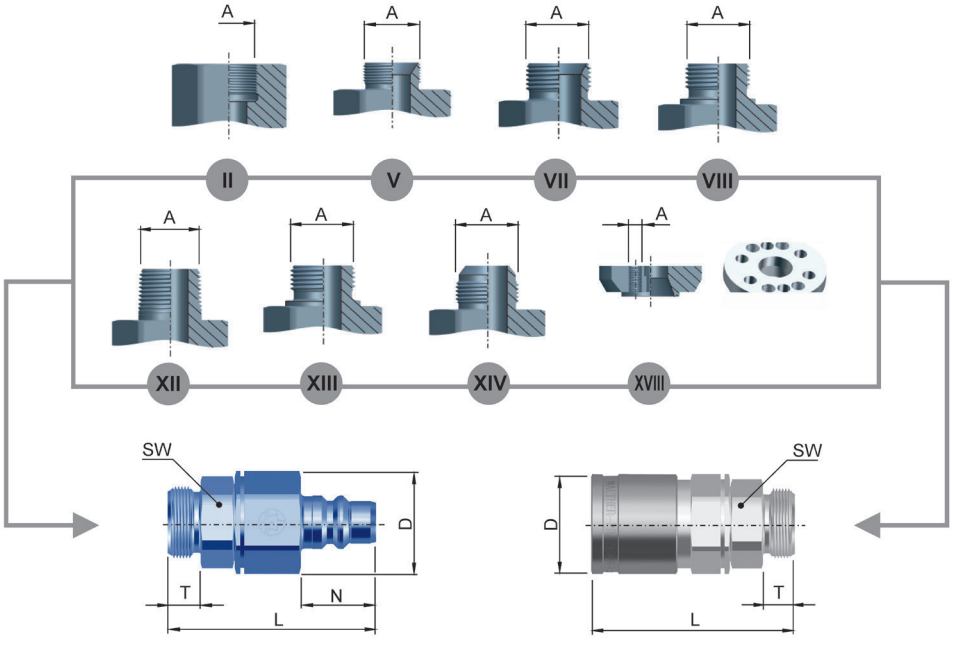
One side self-sealing (EA). Both sides self-sealing (BA).The pressure values are applicable at a temperature of 20°C. Please inquire about other temperature ranges.
* For seawater-resistant designs, material 1.4418 can be replaced with S 20910/1.3964.
Special designs for 1000 or 690 bar are available up to NB 20.

Stated maximum permissible operating pressures (p max. permissible static) only apply to materials specified by us and to operation with group II media according to directive 2014/68/EU. Material combinations, optional materials, as well as other media or other temperature ranges can lead to divergent maximum permissible operating pressures and must be requested separately.

Please note that the maximum permissible operating pressure of the connection and quick coupling system must be considered when determining the operating pressure. Our safety instructions must be followed.

◄◄◄ The **performance diagram** can be found on the front catalogue fold-out page.

A detailed **connection description** can be found on the back catalogue fold-out page. ►►►




**Self-sealing adaptor (male)** **Self-sealing coupling (female)**

PREFERRED CHOICE

# Series HP

## Features chart | Quick coupling systems

| | Product features | Materials | Seals | Additional options |
|---|---|---|---|---|
| Standard | - Vibration safety device - Suitable for high pressure reversal (up to 1 million) | 12 = Steel oil burnished | 1 = NBR<br>2 = FKM<br>4 = EPDM | **From HP-006**<br>OV = Without valve<br>SI* = Additional axial safety locking device<br>RV = With ring valve (cannot be coupled with standard valves)<br>Recommended for high pulsating pressures and harsh operating conditions<br><br>**HP-020**<br>GG = With ring grips Ø 130 (aluminium cast)<br><br>**HP-032**<br>GG = With ring grips Ø 190 (aluminium cast)<br><br>**HP-050**<br>GG = With ring grips Ø 220 (aluminium cast) |
| Optional | | 01 = Stainless steel 1.4404/1.4571 or similar<br>13 = Steel chemically nickel plated<br>W1 = 1.4404/1.4571, Self-sealing adaptor-fore-part 1.4418 QT900 | | |

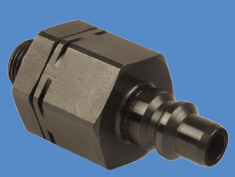
*HP-006: SI – Outside diameter 38 mm HP-010: SI – Outside diameter 50 mm HP-016: SI – Outside diameter 62 mm
HP-020: SI – Outside diameter 68 mm HP-032: SI – Outside diameter 96 mm

**Note**: For Type HP-010, Type 12-010 is the second non-interchangeable version available.

**Attention**: GG and SI cannot be combined = Special version - please enquire
**Attention**: Self-sealing coupling + OV ≙ Product type Thru-type coupling; Self-sealing adaptor + OV ≙ Product type Thru-type adaptor

**For example, a complete part number looks like this:**

**HP-004-0-NP013-Material-Seal-Additional options-Y../-Z..**



## Product chart | Quick coupling systems

Self-sealing adaptor / thru-type adaptor marked in blue

| NB | Product type | A | De-sign | Ran-ge | Pipe AD | Pipe ID | SW | T | D | L | N | Weight Steel | Material-neutral part number |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | Self-sealing coupling (female) | NPT 1/4" | XII | | | | 22 | 14 | 30 | 71.5 | | 220 | HP-004-0-NP013-..-. |

**NB** - Nominal bore [mm] **A** - Connection **SW** - Wrench size [mm] **T** - Thread length [mm] **D** - Diameter [mm] **L** - Length [mm] **N** - Adaptor length [mm] Weight [g]

## Series HP

PREFERRED CHOICE

### Product chart | Quick coupling systems

Self-sealing adaptor / thru-type adaptor marked in blue

| NB | Product type | A | De-sign | Ran-ge | Pipe AD | Pipe ID | SW | T | D | L | N | Weight Steel | Material-neutral part number |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | Self-sealing coupling (female) | NPT 1/4" | XIII | | | | 22 | 14 | 30 | 68.5 | | 230 | HP-004-0-NP513-..-. |
| 4 | Self-sealing coupling (female) | BSPP 1/4 A with 60° sealing cone | VII | | | 2 | 22 | 12 | 30 | 69.5 | | 220 | HP-004-0-XX001-..-. |
| 4 | Self-sealing coupling (female) | UNF 9/16 with 58° sealing cone | XIV | | | 2 | 22 | 18 | 30 | 75.5 | | 220 | HP-004-0-XX002-..-. |
| 4 | Thru-type adaptor (male) | UNF 9/16 with 58° sealing cone | XIV | | | 2 | 17 | 18 | 18.9 | 51 | 25.5 | 45 | HP-004-1-XX002-.. |
| 4 | Self-sealing adaptor (male) | NPT 1/4" | XII | | | | 22 | 14 | 30 | 71.5 | 25.5 | 160 | HP-004-2-NP013-..-. |
| 4 | Self-sealing adaptor (male) | NPT 1/4" | XIII | | | | 22 | 14 | 30 | 68.5 | 25.5 | 170 | HP-004-2-NP513-..-. |
| 4 | Self-sealing adaptor (male) | BSPP 1/4 A with 60° sealing cone | VII | | | 2 | 22 | 12 | 30 | 69.5 | 25.5 | 160 | HP-004-2-XX001-..-. |
| 4 | Self-sealing adaptor (male) | UNF 9/16 with 58° sealing cone | XIV | | | 2 | 22 | 18 | 30 | 75.5 | 25.5 | 160 | HP-004-2-XX002-..-. |
| | | | | | | | | | | | | | |
| 6 | Self-sealing coupling (female) | M 14 x 1.5 | V | | | 6 | 30 | 10 | 34 | 75.5 | | 300 | HP-006-0-D0614-..-. |
| 6 | Self-sealing coupling (female) | M 16 x 1.5 | V | | | 8 | 30 | 11 | 34 | 76.5 | | 300 | HP-006-0-D0816-..-. |
| 6 | Self-sealing coupling (female) | NPT 3/8" | XII | | | 6 | 30 | 15 | 34 | 80.5 | | 260 | HP-006-0-NP017-..-. |
| 6 | Self-sealing coupling (female) | NPT 3/8" | XIII | | | 6 | 30 | 15 | 34 | 81.5 | | 320 | HP-006-0-NP517-..-. |
| 6 | Self-sealing coupling (female) | M 16 x 1.5 | III | S | 8 | 4 | 30 | 12 | 34 | 77.5 | | 320 | HP-006-0-S0816-..-. |
| 6 | Self-sealing coupling (female) | M 18 x 1.5 | III | S | 10 | 6 | 30 | 12 | 34 | 77.5 | | 310 | HP-006-0-S1018-..-. |
| 6 | Self-sealing coupling (female) | M 20 x 1.5 | III | S | 12 | 8 | 30 | 12 | 34 | 77.5 | | 330 | HP-006-0-S1220-..-. |
| 6 | Self-sealing coupling (female) | BSPP 3/8" | VII | | | 6 | 30 | 12 | 34 | 77.5 | | 250 | HP-006-0-VR017-..-. |
| 6 | Self-sealing coupling (female) | BSPP 3/8" | VIII | | | 6 | 30 | 12 | 34 | 80 | | 320 | HP-006-0-WB017-..-. |
| 6 | Self-sealing coupling (female) | BSPP 3/8" | II | | | 6 | 30 | 15 | 34 | 75 | | 350 | HP-006-0-WR517-..-. |
| 6 | Thru-type adaptor (male) | BSPP 3/8" | VIII | | | 6 | 22 | 12 | 25 | 54 | 30.5 | 70 | HP-006-1-WB017-.. |
| 6 | Self sealing adaptor (male) | M 14 x 1.5 | V | | | 6 | 30 | 10 | 34 | 75.5 | 30.5 | 190 | HP-006-2-D0614-..-. |

**NB** - Nominal bore [mm] **A** - Connection **SW** - Wrench size [mm] **T** - Thread length [mm] **D** - Diameter [mm] **L** - Length [mm] **N** - Adaptor length [mm] Weight [g]

## Product chart | Quick coupling systems

Self-sealing adaptor / thru-type adaptor marked in blue

| NB | Product type | A | De-sign | Ran-ge | Pipe AD | Pipe ID | SW | T | D | L | N | Weight Steel | Material-neutral part number |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | Self-sealing adaptor (male) | M 16 x 1.5 | V | | | 8 | 30 | 11 | 34 | 76.5 | 30.5 | 190 | HP-006-2-D0816-..-. |
| 6 | Self-sealing adaptor (male) | NPT 3/8" | XII | | | 6 | 30 | 15 | 34 | 80.5 | 30.5 | 220 | HP-006-2-NP017-..-. |
| 6 | Self-sealing adaptor (male) | NPT 3/8" | XIII | | | 6 | 30 | 15 | 34 | 81.5 | 30.5 | 240 | HP-006-2-NP517-..-. |
| 6 | Self-sealing adaptor (male) | M 16 x 1.5 | III | S | 8 | 4 | 30 | 12 | 34 | 77.5 | 30.5 | 210 | HP-006-2-S0816-..-. |
| 6 | Self-sealing adaptor (male) | M 18 x 1.5 | III | S | 10 | 6 | 30 | 12 | 34 | 77.5 | 30.5 | 200 | HP-006-2-S1018-..-. |
| 6 | Self-sealing adaptor (male) | M 20 x 1.5 | III | S | 12 | 8 | 30 | 12 | 34 | 77.5 | 30.5 | 220 | HP-006-2-S1220-..-. |
| 6 | Self-sealing adaptor (male) | BSPP 3/8" | VII | | | 6 | 30 | 12 | 34 | 77.5 | 30.5 | 210 | HP-006-2-VR017-..-. |
| 6 | Self-sealing adaptor (male) | BSPP 3/8" | VIII | | | 6 | 30 | 12 | 34 | 80 | 30.5 | 210 | HP-006-2-WB017-..-. |
| 6 | Self-sealing adaptor (male) | BSPP 3/8" | II | | | 6 | 30 | 15 | 34 | 75 | 30.5 | 270 | HP-006-2-WR517-..-. |
| | | | | | | | | | | | | | |
| 10 | Self-sealing coupling (female) | M 18 x 1.5 | V | | | 10 | 41 | 11 | 46 | 91.5 | | 670 | HP-010-0-D1018-..-. |
| 10 | Self-sealing coupling (female) | M 22 x 1.5 | V | | | 12 | 41 | 12 | 46 | 92.5 | | 670 | HP-010-0-D1222-..-. |
| 10 | Self-sealing coupling (female) | NPT 1/2" | XIII | | | 10 | 41 | 18 | 46 | 100.5 | | 850 | HP-010-0-NP521-..-. |
| 10 | Self-sealing coupling (female) | M 20 x 1.5 | III | S | 12 | 8 | 41 | 12 | 46 | 92.5 | | 670 | HP-010-0-S1220-..-. |
| 10 | Self-sealing coupling (female) | M 22 x 1.5 | III | S | 14 | 10 | 41 | 14 | 46 | 94.5 | | 670 | HP-010-0-S1422-..-. |
| 10 | Self-sealing coupling (female) | M 24 x 1.5 | III | S | 16 | 12 | 41 | 14 | 46 | 94.5 | | 680 | HP-010-0-S1624-..-. |
| 10 | Self-sealing coupling (female) | BSPP 1/2" | VII | | | 10 | 41 | 15 | 46 | 95.5 | | 680 | HP-010-0-VR021-..-. |
| 10 | Self-sealing coupling (female) | BSPP 1/2" | VIII | | | 10 | 41 | 17 | 46 | 97.5 | | 690 | HP-010-0-WB021-..-. |
| 10 | Self-sealing coupling (female) | BSPP 1/2" | II | | | 10 | 41 | 17 | 46 | 96.5 | | 840 | HP-010-0-WR521-..-. |
| 10 | Thru-type adaptor (male) | BSPP 1/2" | VIII | | | 10 | 27 | 17 | 30 | 63 | 36 | 130 | HP-010-1-WB021-.. |
| 10 | Self-sealing adaptor (male) | M 18 x 1.5 | V | | | 10 | 41 | 11 | 46 | 91.5 | 36 | 450 | HP-010-2-D1018-..-. |
| 10 | Self-sealing adaptor (male) | M 22 x 1.5 | V | | | 12 | 41 | 12 | 46 | 92.5 | 36 | 450 | HP-010-2-D1222-..-. |
| 10 | Self-sealing adaptor (male) | NPT 1/2" | XIII | | | 18 | 41 | 18 | 46 | 100.5 | 36 | 630 | HP-010-2-NP521-..-. |

**NB** - Nominal bore [mm] **A** - Connection **SW** - Wrench size [mm] **T** - Thread length [mm] **D** - Diameter [mm] **L** - Length [mm] **N** - Adaptor length [mm] Weight [g]

## Series HP

PREFERRED CHOICE

### Product chart | Quick coupling systems

Self-sealing adaptor / thru-type adaptor marked in blue

| NB | Product type | A | De-sign | Ran-ge | Pipe AD | Pipe ID | SW | T | D | L | N | Weight Steel | Material-neutral part number |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | Self-sealing adaptor (male) | M 20 x 1.5 | III | S | 12 | 8 | 41 | 12 | 46 | 92.5 | 36 | 460 | HP-010-2-S1220-..-. |
| 10 | Self-sealing adaptor (male) | M 22 x 1.5 | III | S | 14 | 10 | 41 | 14 | 46 | 94.5 | 36 | 460 | HP-010-2-S1422-..-. |
| 10 | Self-sealing adaptor (male) | M 24 x 1.5 | III | S | 16 | 12 | 41 | 14 | 46 | 94.5 | 36 | 470 | HP-010-2-S1624-..-. |
| 10 | Self-sealing adaptor (male) | BSPP 1/2" | VII | | | 10 | 41 | 15 | 46 | 95.5 | 36 | 460 | HP-010-2-VR021-..-. |
| 10 | Self-sealing adaptor (male) | BSPP 1/2" | VIII | | | 10 | 41 | 17 | 46 | 97.5 | 36 | 470 | HP-010-2-WB021-..-. |
| 10 | Self-sealing adaptor (male) | BSPP 1/2" | II | | | 10 | 41 | 17 | 46 | 96.5 | 36 | 620 | HP-010-2-WR521-..-. |
| | | | | | | | | | | | | | |
| 16 | Self-sealing coupling (female) | M 22 x 1.5 | V | | | 12 | 46 | 12 | 56 | 108.5 | | 1,110 | HP-016-0-D1222-..-. |
| 16 | Self-sealing coupling (female) | M 24 x 1.5 | III | S | 16 | 12 | 46 | 14 | 56 | 110.5 | | 1,120 | HP-016-0-S1624-..-. |
| 16 | Self sealing coupling (female) | M 30 x 2 | III | S | 20 | 16 | 46 | 16 | 56 | 112.5 | | 1,140 | HP-016-0-S2030-..-. |
| 16 | Self-sealing coupling (female) | BSPP 3/4" | VII | | | 16 | 46 | 17 | 56 | 113.5 | | 1,130 | HP-016-0-VR026-..-. |
| 16 | Self-sealing coupling (female) | BSPP 3/4" | VIII | | | 16 | 46 | 19 | 56 | 115.5 | | 1,140 | HP-016-0-WB026-..-. |
| 16 | Self-sealing coupling (female) | BSPP 3/4" | II | | | 16 | 46 | 19 | 56 | 110.5 | | 1,360 | HP-016-0-WR526-..-. |
| 16 | Thru-type adaptor (male) | BSPP 3/4" | VIII | | | 12 | 36 | 19 | 41 | 72 | 41 | 250 | HP-016-1-WB026-.. |
| 16 | Self-sealing adaptor (male) | M 22 x 1.5 | V | | | 12 | 46 | 12 | 56 | 107.5 | 41 | 760 | HP-016-2-D1222-..-. |
| 16 | Self-sealing adaptor (male) | M 24 x 1.5 | III | S | 16 | 12 | 46 | 14 | 56 | 109.5 | 41 | 770 | HP-016-2-S1624-..-. |
| 16 | Self-sealing adaptor (male) | M 30 x 2 | III | S | 20 | 16 | 46 | 16 | 56 | 111.5 | 41 | 790 | HP-016-2-S2030-..-. |
| 16 | Self-sealing adaptor (male) | BSPP 3/4" | VII | | | 16 | 46 | 17 | 56 | 112.5 | 41 | 780 | HP-016-2-VR026-..-. |
| 16 | Self-sealing adaptor (male) | BSPP 3/4" | VIII | | | 16 | 46 | 19 | 56 | 114.5 | 41 | 790 | HP-016-2-WB026-..-. |
| 16 | Self-sealing adaptor (male) | BSPP 3/4" | II | | | 16 | 46 | 19 | 56 | 109.5 | 41 | 1,000 | HP-016-2-WR526-..-. |
| | | | | | | | | | | | | | |
| 20 | Self-sealing coupling (female) | M 26 x 1.5 | V | | | 15 | 55 | 12 | 62 | 110.5 | | 1,400 | HP-020-0-D1526-..-. |
| 20 | Self-sealing coupling (female) | M 30 x 1.5 | V | | | 19 | 55 | 14 | 62 | 112.5 | | 1,410 | HP-020-0-D1930-..-. |
| 20 | Self-sealing coupling (female) | M 36 x 2 | III | S | 25 | 20 | 55 | 18 | 62 | 116.5 | | 1,440 | HP-020-0-S2536-..-. |

**NB** - Nominal bore [mm] **A** - Connection **SW** - Wrench size [mm] **T** - Thread length [mm] **D** - Diameter [mm] **L** - Length [mm] **N** - Adaptor length [mm] Weight [g]

PREFERRED CHOICE

# Series HP

## Product chart | Quick coupling systems

Self-sealing adaptor / thru-type adaptor marked in blue

| NB | Product type | A | De-sign | Ran-ge | Pipe AD | Pipe ID | SW | T | D | L | N | Weight Steel | Material-neutral part number |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | Self-sealing coupling (female) | BSPP 1" | VII | | | 20 | 55 | 20 | 62 | 118.5 | | 1,450 | HP-020-0-VR033-..-. |
| 20 | Self-sealing coupling (female) | BSPP 1" | VIII | | | 20 | 55 | 21 | 62 | 119.5 | | 1,450 | HP-020-0-WB033-..-. |
| 20 | Self-sealing coupling (female) | BSPP 1" | II | | | 20 | 55 | 23 | 62 | 123 | | 1,720 | HP-020-0-WR533-..-. |
| 20 | Thru-type adaptor (male) | BSPP 1" | VIII | | | 20 | 41 | 21 | 45 | 74 | 43 | 310 | HP-020-1-WB033-.. |
| 20 | Self-sealing adaptor (male) | M 26 x 1.5 | V | | | 15 | 55 | 12 | 62 | 110.5 | 43 | 1,030 | HP-020-2-D1526-..-. |
| 20 | Self-sealing adaptor (male) | M 30 x 1.5 | V | | | 19 | 55 | 14 | 62 | 112.5 | 43 | 1,040 | HP-020-2-D1930-..-. |
| 20 | Self-sealing adaptor (male) | M 36 x 2 | III | S | 25 | 20 | 55 | 18 | 62 | 116.5 | 43 | 1,060 | HP-020-2-S2536-..-. |
| 20 | Self-sealing adaptor (male) | BSPP 1" | VII | | | 20 | 55 | 20 | 62 | 118.5 | 43 | 1,070 | HP-020-2-VR033-..-. |
| 20 | Self-sealing adaptor (male) | BSPP 1" | VIII | | | 20 | 55 | 21 | 62 | 119.5 | 43 | 1,070 | HP-020-2-WB033-..-. |
| 20 | Self-sealing adaptor (male) | BSPP 1" | II | | | 20 | 55 | 23 | 62 | 123 | 43 | 1,340 | HP-020-2-WR533-..-. |
| | | | | | | | | | | | | | |
| 32 | Self-sealing coupling (female) | M 38 x 2 | V | | | 25 | 80 | 14 | 90 | 133.5 | | 3,690 | HP-032-0-D2538-..-. |
| 32 | Self-sealing coupling (female) | M 45 x 1.5 | V | | | 32 | 80 | 16 | 90 | 135.5 | | 3,680 | HP-032-0-D3245-..-. |
| 32 | Self-sealing coupling (female) | M 52 x 2 | III | S | 38 | 32 | 80 | 22 | 90 | 141.5 | | 3,790 | HP-032-0-S3852-..-. |
| 32 | Self-sealing coupling (female) | BSPP 1 1/2" | VIII | | | 32 | 80 | 25 | 90 | 144.5 | | 3,790 | HP-032-0-WB048-..-. |
| 32 | Thru-type adaptor (male) | BSPP 1 1/2" | VIII | | | 32 | 55 | 25 | 61.5 | 90.5 | 49.5 | 690 | HP-032-1-WB048-.. |
| 32 | Thru-type adaptor (male) | BSPP 2" | VIII | | | 32 | 75 | 27 | 86 | 92.5 | 49.5 | 1,190 | HP-032-1-WB060-.. |
| 32 | Self-sealing adaptor (male) | M 38 x 1.5 | V | | | 25 | 80 | 14 | 90 | 133 | 49.5 | 2,630 | HP-032-2-D2538-..-. |
| 32 | Self-sealing adaptor (male) | M 45 x 1.5 | V | | | 32 | 80 | 16 | 90 | 135 | 49.5 | 2,620 | HP-032-2-D3245-..-. |
| 32 | Self-sealing adaptor (male) | M 52 x 2 | III | S | 38 | 32 | 80 | 22 | 90 | 141 | 49.5 | 2,730 | HP-032-2-S3852-..-. |
| 32 | Self-sealing adaptor (male) | BSPP 1 1/2" | VIII | | | 32 | 80 | 25 | 90 | 144 | 49.5 | 2,740 | HP-032-2-WB048-..-. |
| | | | | | | | | | | | | | |
| 50 | Self-sealing coupling (female) | SAE-flange | XVIII | | 65 | 50 | | | 150 | 219 | | 15,300 | HP-050-0-XX007-..-. |
| 50 | Self-sealing adaptor (male) | SAE-flange | XVIII | | 65 | 50 | | | 150 | 217.5 | 87.5 | 11,400 | HP-050-2-XX007-..-. |

**NB** - Nominal bore [mm] **A** - Connection **SW** - Wrench size [mm] **T** - Thread length [mm] **D** - Diameter [mm] **L** - Length [mm] **N** - Adaptor length [mm] Weight [g]

Our tailor-made systems are used wherever unusual requirements for quick coupling systems are presented, such as temperatures (-273°C up to +310°C), purity grades (SIP or CIP capability), special media (steam, lacquers, glues, medical gases, alkalis and acids), information technology (indicators or "proximity", RFID), where customer cavities need to be used, emergency release units, and much more. We develop quick coupling systems - specifically for you!