

# Wing Style Interchange Coupling



## Misc: Interchange Coupling

### Series: W

**Interchange:** Parker 6100

- Seals: Nitrile
- Threaded sleeve allows connection/disconnection under pressure
- Coupler: brass material
- Wing: cast steel
- Nipple: brass material

| NOMINAL SIZE | RATED FLOW AT 50<br>PSI PRESSURE DROP | BURST PRESSURE | MAX WORKING<br>PRESSURE | MAX WORKING<br>PRESSURE |
|--------------|---------------------------------------|----------------|-------------------------|-------------------------|
| inch         | gpm                                   | psi            | bar                     | psi                     |
| 3/4          | 35                                    | 9000           | 207                     | 3000                    |
| 1            | 55                                    | 9000           | 207                     | 3000                    |
| 1 1/4        | 80                                    | 8250           | 190                     | 2750                    |
| 1 1/2        | 110                                   | 7500           | 172                     | 2500                    |

### W NPT Thread\_Wing Style Thread to Connect

| PART                | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION |
|---------------------|-----------|-----------|-------------|------------|------------------|
| <b>W NPT THREAD</b> |           |           |             |            |                  |
| COUPLER             | 3/4       | 3/4       | NPT         | 100610012  | F. W6F6-B        |
| NIPPLE              | 3/4       | 3/4       | NPT         | 100610112  | M. W6F6-B        |
| COUPLER             | 1         | 1         | NPT         | 100610016  | F. W8F8-B        |
| NIPPLE              | 1         | 1         | NPT         | 100610116  | M. W8F8-B        |
| COUPLER             | 1 1/4     | 1 1/4     | NPT         | 100610020  | F. W10F10-B      |
| NIPPLE              | 1 1/4     | 1 1/4     | NPT         | 100610120  | M. W10F10-B      |
| COUPLER             | 1 1/2     | 1 1/2     | NPT         | 100610024  | F. W12F12-B      |
| NIPPLE              | 1 1/2     | 1 1/2     | NPT         | 100610124  | M. W12F12-B      |

| ORDER CODE | DESCRIPTION    | CAP FOR COUPLER |
|------------|----------------|-----------------|
| 200610012  | F. CAP 6WDP-B  | 100610012       |
| 200610112  | M. CAP W6DC-B  | 100610112       |
| 200610016  | F. CAP 8WDP-B  | 100610016       |
| 200610116  | M. CAP W8DP-B  | 100610116       |
| 200610020  | F. CAP 10WDP-B | 100610020       |
| 200610120  | M. CAP W10DC-B | 100610120       |
| 200610024  | F. CAP 12WDP-B | 100610024       |
| 200610124  | M. CAP W12DC-B | 100610124       |



# 10,000 psi Interchange Coupling



## Misc: Interchange Coupling

**Series:** IVHP

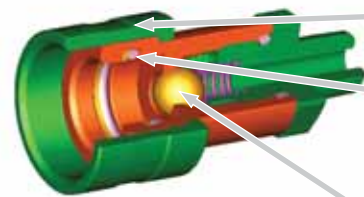
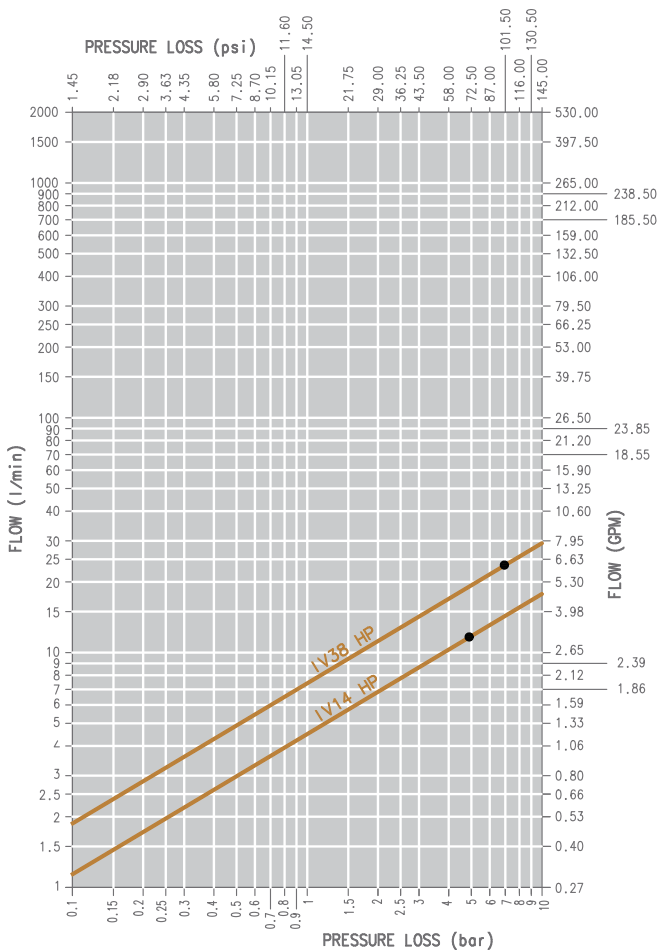
**Interchange:** Enerpac/Hydraulic Jack

- 10,000 psi working pressure
- Seals: Nitrile
- Material: hardened steel for higher burst pressure than competitors



# 10,000 psi Interchange Coupling

| DESCRIPTION | NOMINAL SIZE | ISO SIZE | MAX. OPERATING PRESSURE COUPLED |        | BURST PRESSURE COUPLED |        |
|-------------|--------------|----------|---------------------------------|--------|------------------------|--------|
|             | inch         | mm       | bar                             | psi    | bar                    | psi    |
| IVHP 1/4    | 1/4          | 6.3      | 700                             | 10,000 | 2500                   | 35,714 |
| IVHP 3/8    | 3/8          | 10.0     | 700                             | 10,000 | 2350                   | 33,570 |



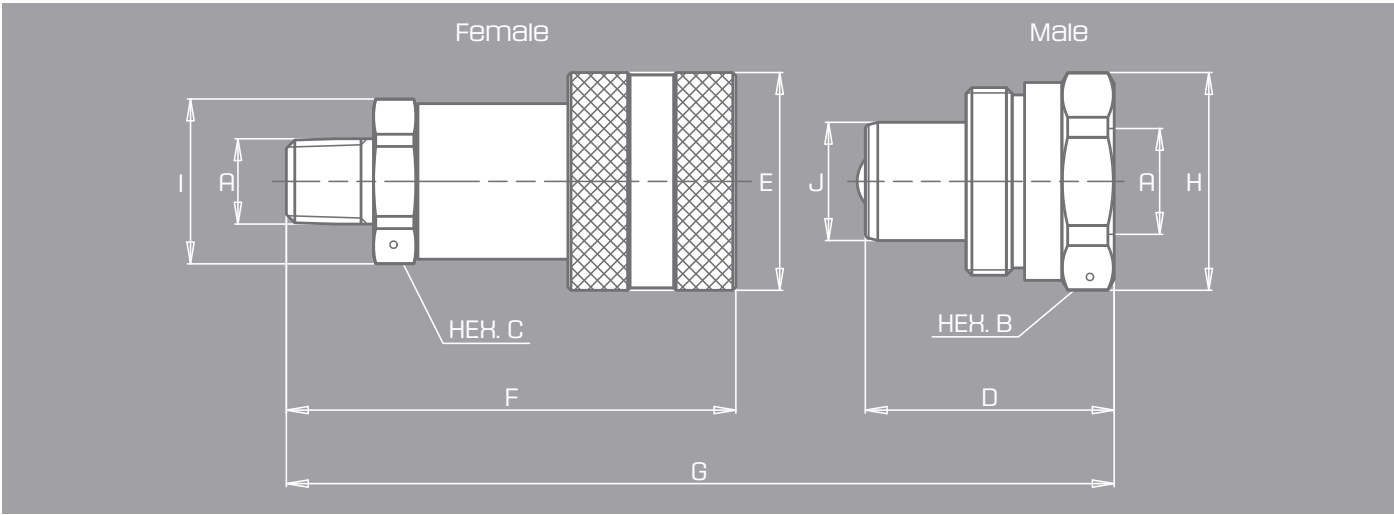
Components in high resistance carbon steel  
 Size 1/4: o-ring in Nitrile 90 shore  
 Size 3/8: o-ring in Nitrile 90 shore with PTFE anti-extrusion  
 Ball valves



Screw mechanical connection  
 Ball valves



# Misc: Interchange Coupling Size Diagram



| DESCRIPTION | BODY SIZE | UNIT | A    | B    | C     | D    | E    | F    | G     | H    | UNIT | WEIGHT |
|-------------|-----------|------|------|------|-------|------|------|------|-------|------|------|--------|
| F-IV14HP    | 1/4       | mm   | 28.0 | 20.5 | 98.0  | 24.0 | -    | -    | -     | -    | Kg   | 0.045  |
|             |           | inch | 1.10 | 0.81 | 3.86  | 0.94 | -    | -    | -     | -    | lb   | 0.10   |
| M-IV14HP    | 1/4       | mm   | -    | -    | -     | -    | 28.0 | 28.5 | 98.0  | 24.0 | Kg   | 0.040  |
|             |           | inch | -    | -    | -     | -    | 1.10 | 1.12 | 3.86  | 0.94 | lb   | 0.09   |
| F-IV38HP    | 3/8       | mm   | 35.0 | 23.5 | 110.0 | 24.0 | -    | -    | -     | -    | Kg   | 0.070  |
|             |           | inch | 1.38 | 0.93 | 4.33  | 0.94 | -    | -    | -     | -    | lb   | 0.15   |
| M-IV38HP    | 3/8       | mm   | -    | -    | -     | -    | 35.0 | 36.6 | 110.0 | 24.0 | Kg   | 0.095  |
|             |           | inch | -    | -    | -     | -    | 1.38 | 1.44 | 4.33  | 0.94 | lb   | 0.21   |

# Interchange Coupling



COUPLER

## IVHP 10,000 psi NPT Thread\_Thread to Connect High Pressure

| PART                                   | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION    |
|--|-----------|-----------|-------------|------------|---------------------|
| <b>IVHP NPT MALE AND FEMALE THREAD</b> |           |           |             |            |                     |
| COUPLER                                | 1/4       | 1/4       | NPT MALE    | 800201008  | F. IVHP 1/4 NPT EXT |
| NIPPLE                                 | 1/4       | 1/4       | NPT FEMALE  | 800201009  | M. IVHP 1/4 NPT     |
| COUPLER                                | 3/8       | 3/8       | NPT MALE    | 800201004  | F. IVHP 3/8 NPT EXT |
| NIPPLE                                 | 3/8       | 3/8       | NPT FEMALE  | 800201005  | M. IVHP 3/8 NPT     |
| NIPPLE                                 | 1/4       | 1/4       | NPT MALE    | 800201010  | M. IVHP 1/4 NPT     |
| COUPLER                                | 3/8       | 3/8       | NPT FEMALE  | 800201014  | F. IVHP 3/8 NPT     |

SIZE 3/8 AVAILABLE IN 316SS UPON REQUEST



NIPPLE

## IVHP\_Metal and Plastic Caps

| ORDER CODE               | DESCRIPTION                 |
|--------------------------|-----------------------------|
| <b>IVHP METAL CAPS</b>   |                             |
| 815605002                | CAP F. IV38HP               |
| 815605003                | CAP M. IV38HP               |
| 815605004                | CAP F. IV14HP               |
| 815605005                | CAP M. IV14HP               |
| <b>IVHP PLASTIC CAPS</b> |                             |
| 815603010                | CAP F. IV14HP BLACK PLASTIC |
| 815603011                | CAP M. IV14HP BLACK PLASTIC |
| 815603012                | CAP F. IV38HP BLACK PLASTIC |
| 815603013                | CAP M. IVHP38 BLACK PLASTIC |



## Misc: Adapter Couplers

Series: F. FIRG12A M. BIR12  
 M. FIRG12A F. BIR12

**Advantages of Adapters**

- Provides compatibility between old and new equipment
- Avoids changing mismatched couplers
- Bi-directional flow



F. FIRG12A M. BIR12

| STUCCHI SERIES      | NOMINAL SIZE | ISO SIZE | MAX WORKING PRESSURE | MAX WORKING PRESSURE |
|---------------------|--------------|----------|----------------------|----------------------|
| VEP                 | inch         | mm       | bar                  | psi                  |
| F. FIRG12A M. BIR12 | 1/2          | 12.5     | 250                  | 3750                 |
| M. FIRG12A F. BIR12 | 1/2          | 12.5     | 250                  | 3750                 |

**Adapter Couplers** Flat Face/ISO A | 8036-Adapter

| DESCRIPTION                         | ORDER CODE | PART INSCRIPTION    |
|-------------------------------------|------------|---------------------|
| 1/2 FEMALE FLAT FAC /1/2 MALE ISO A | 803622000  | F. FIRG12A M. BIR12 |
| 1/2 MALE FLAT FACE/1/2 FEMALE ISO A | 803622001  | M. FIRG12A F. BIR12 |



M. FIRG12A F. BIR12



# IRH Series European Poppet Interchange



## Misc: IRH Series

Series: IRH

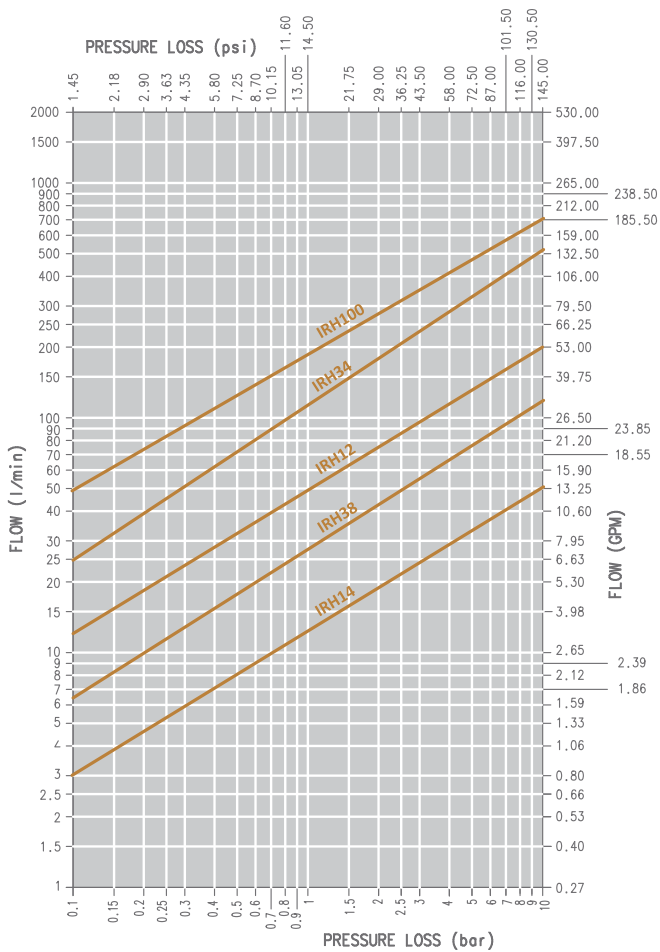
**Interchange:** Tema "T"

Applications include chemical industries, industrial plants, material handling, and mobile machinery. Standard poppet and pressure eliminator poppet available.





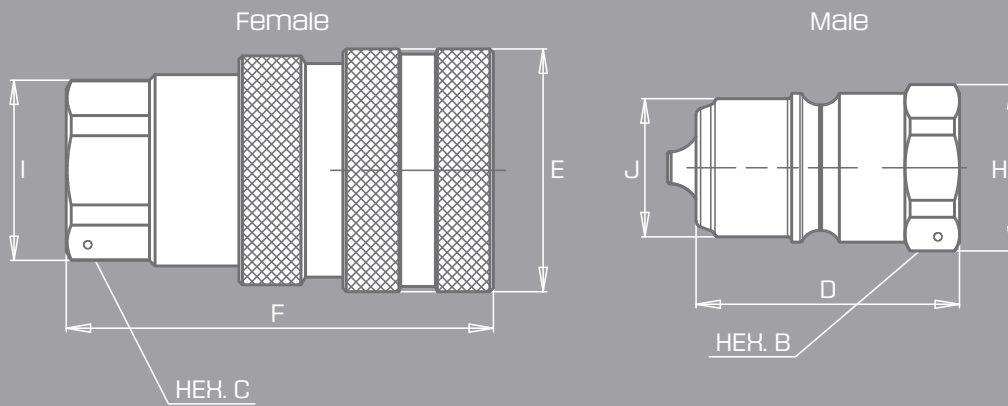
| DESCRIPTION | NOMINAL SIZE | ISO SIZE | MAX. OPERATING PRESSURE COUPLED |      | BURST PRESSURE |       |      |       |        |       |
|-------------|--------------|----------|---------------------------------|------|----------------|-------|------|-------|--------|-------|
|             |              |          |                                 |      | COUPLED        |       | MALE |       | FEMALE |       |
|             |              |          |                                 |      | MPa            | psi   | MPa  | psi   | MPa    | psi   |
| IRH14       | 1/4          | 6.3      | 60                              | 8702 | 180            | 26106 | 120  | 17404 | 120    | 17404 |
| IRH38       | 3/8          | 10.0     | 46.5                            | 6744 | 130            | 18854 | 110  | 15954 | 110    | 15954 |
| IRH12       | 1/2          | 12.5     | 40                              | 5801 | 110            | 15954 | 100  | 14503 | 100    | 14503 |
| IRH34       | 3/4          | 20.0     | 27                              | 3916 | 100            | 14503 | 80   | 11603 | 80     | 11603 |
| IRH100      | 1            | 25.0     | 27                              | 3916 | 90             | 13053 | 80   | 11603 | 80     | 11603 |





# IRH Series European Poppet Interchange

## Misc: IRH Series Size Diagram



| DESCRIPTION | BODY SIZE | A   | B  | C  | D    | E  | F    | G     | H  | I    | J     | WEIGHT |        |
|-------------|-----------|-----|----|----|------|----|------|-------|----|------|-------|--------|--------|
|             |           |     |    |    |      |    |      |       |    |      |       | MALE   | FEMALE |
| IRH14 NPTF  | 6.3       | 1/4 | 19 | 21 | 48.2 | 26 | 60   | 81.7  | 21 | 23   | 11.95 | 51     | 145    |
| IRH38 NPTF  | 10        | 3/8 | 22 | 24 | 38   | 35 | 61.6 | 76.4  | 24 | 26   | 19.9  | 57     | 222    |
| IRH12 NPTF  | 12.5      | 1/2 | 27 | 30 | 42.5 | 41 | 67.6 | 85.2  | 29 | 33   | 24.7  | 99     | 327    |
| IRH34 NPTF  | 20        | 3/4 | 36 | 38 | 47   | 52 | 76.2 | 94.6  | 39 | 41.6 | 32.7  | 189    | 575    |
| IRH100 NPTF | 25        | 1   | 45 | 45 | 56.5 | 62 | 92   | 113.4 | 48 | 48   | 40.9  | 352    | 971    |



**IRH NPT and BSP Thread**\_Tema "T" Series | European Interchange

| PART   | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE | PART DESCRIPTION  |
|--|-----------|-----------|-------------|------------|-------------------|
| <b>IRH NPT THREAD</b>                                |           |           |             |            |                   |
| COUPLER  | 1/4       | 1/4       | NPT         | 807902000  | F. IRH 14 NPTF    |
| NIPPLE   | 1/4       | 1/4       | NPT         | 807902001  | M. IRH 14 NPTF    |
| COUPLER  | 3/8       | 3/8       | NPT         | 807902002  | F. IRH 38 NPTF    |
| NIPPLE   | 3/8       | 3/8       | NPT         | 807902003  | M. IRH 38 NPTF    |
| COUPLER  | 1/2       | 1/2       | NPT         | 807902004  | F. IRH 12 NPTF    |
| NIPPLE   | 1/2       | 1/2       | NPT         | 807902005  | M. IRH 12 NPTF    |
| COUPLER  | 3/4       | 3/4       | NPT         | 807902006  | F. IRH 34 NPTF    |
| NIPPLE   | 3/4       | 3/4       | NPT         | 807902007  | M. IRH 34 NPTF    |
| COUPLER  | 1         | 1         | NPT         | 807902008  | F. IRH 100 NPTF   |
| NIPPLE   | 1         | 1         | NPT         | 807902009  | M. IRH 100 NPTF   |
| <b>IRH NPT THREAD - CONNECT UNDER PRESSURE VALVE</b> |           |           |             |            |                   |
| COUPLER  | 3/8       | 3/8       | NPT         | 807902010  | F. IRH 38PC NPTF  |
| NIPPLE   | 3/8       | 3/8       | NPT         | 807902011  | M. IRH 38PC NPTF  |
| COUPLER  | 1/2       | 1/2       | NPT         | 807902012  | F. IRH 12PC NPTF  |
| NIPPLE   | 1/2       | 1/2       | NPT         | 807902013  | M. IRH 12PC NPTF  |
| COUPLER  | 3/4       | 3/4       | NPT         | 807902014  | F. IRH 34PC NPTF  |
| NIPPLE   | 3/4       | 3/4       | NPT         | 807902015  | M. IRH 34PC NPTF  |
| COUPLER  | 1         | 1         | NPT         | 807902016  | F. IRH 100PC NPTF |
| NIPPLE   | 1         | 1         | NPT         | 807902017  | M. IRH 100PC NPTF |
| <b>IRH BSP THREAD</b>                                |           |           |             |            |                   |
| COUPLER  | 3/4       | 3/4       | BSP         | 807900006  | F. IRH 34 BSP     |
| NIPPLE   | 3/4       | 3/4       | BSP         | 807900007  | M. IRH 34 BSP     |
| COUPLER  | 1         | 1         | BSP         | 807900008  | F. IRH 100 BSP    |
| NIPPLE   | 1         | 1         | BSP         | 807900009  | M. IRH 100 BSP    |
| <b>IRH BSP THREAD - CONNECT UNDER PRESSURE VALVE</b> |           |           |             |            |                   |
| COUPLER  | 3/4       | 3/4       | BSP         | 807900014  | F. IRH 34PC BSP   |
| NIPPLE   | 3/4       | 3/4       | BSP         | 807900015  | M. IRH 34PC BSP   |



COUPLER



NIPPLE



NIPPLE-PC

# VD Series Screw Poppet Interchange



COMING SOON



## Stucchi: VD Series

### Series: VD European Screw Coupler

Available from size 1/4 to 1 1/4 inch to cover the various fields of hydraulic applications. The series VD couplings are mostly used in mobile crane, vibratory hammer, oil patch and industrial plant applications.

Screw-on system ensures connection with some residual pressure

- Friction ring to prevent accidental disconnection
- Hardened valve bodies for impulse applications
- Interchangeable with the German market
- O-ring connected marker is highly visible during connection and helps to keep containments out of the threads while connected

### Overview

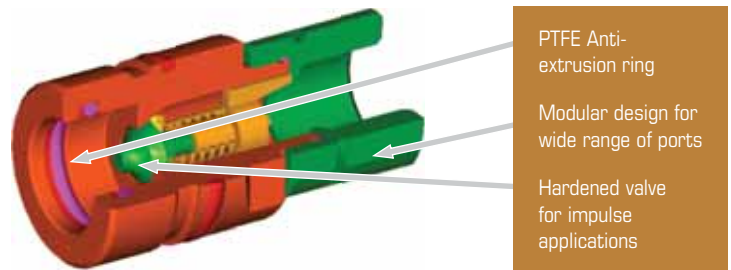
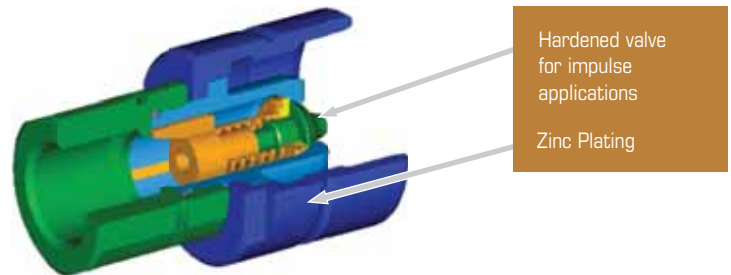
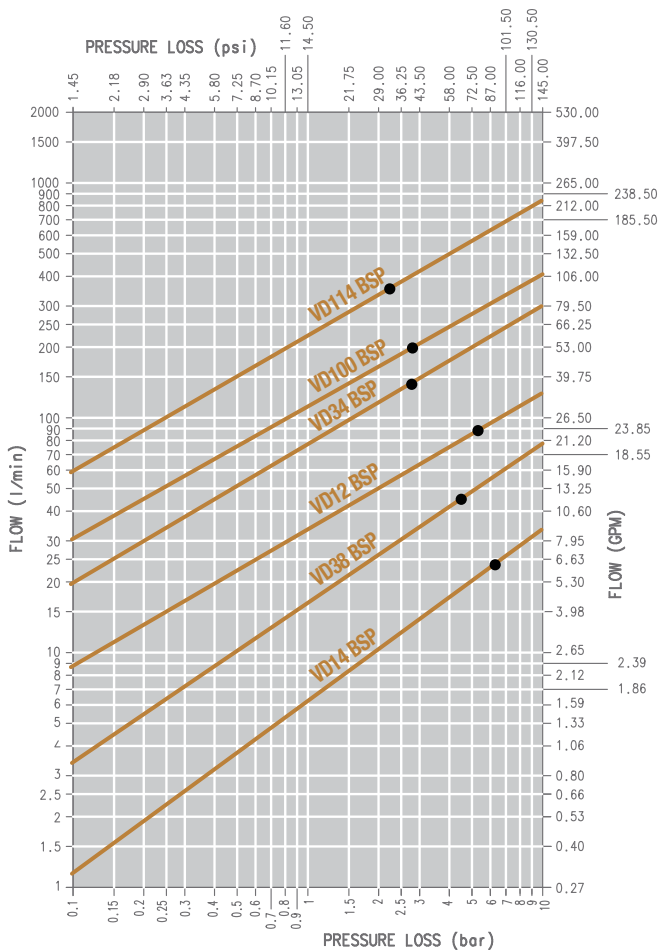
Due to their rugged design, VD series couplings are particularly well suited for heavy-duty service conditions making them one of the most popular designs in Europe. The VD coupler is a durable product using a poppet style valve for the sealing mechanism and threads as the mechanical connection. Highly versatile design is ideally suited for hydraulic systems experiencing pressure spikes or impulses.

### Technical Characteristics

- Coupling body: zinc plated steel
- Nipple is zinc plated hardened steel
- Seals: Nitrile
- Anti-extrusion rings are Teflon
- Internal components purposely designed to reduce turbulence
- Wide range of ports on request
- Metal shoulder to protect the o-ring seal on female coupling
- Screw-on system ensures connection under residual pressure

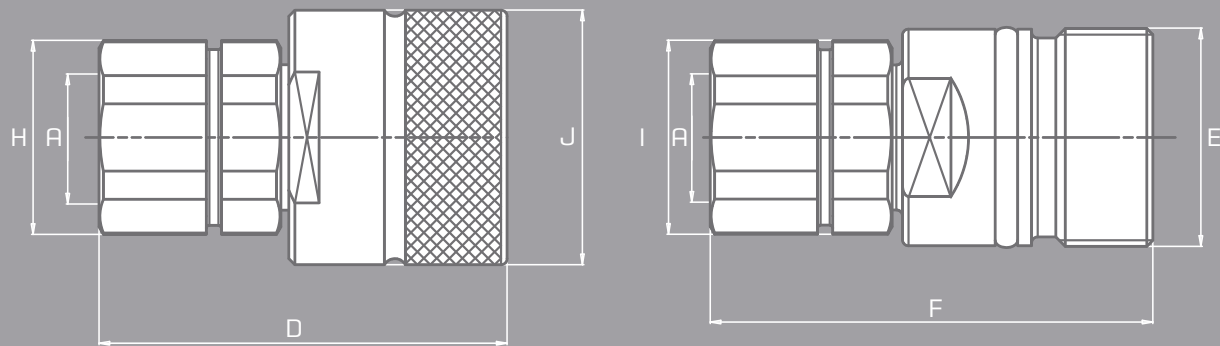


| DESCRIPTION | SIZE  | MAX. WORKING PRESSURE CONNECTED |      |
|-------------|-------|---------------------------------|------|
|             |       | MPa                             | psi  |
| VD14        | 1/4   | 45                              | 6527 |
| VD38        | 3/8   | 45                              | 6527 |
| VD12        | 1/2   | 40                              | 5801 |
| VD34        | 3/4   | 40                              | 5801 |
| VD100       | 1     | 30                              | 4351 |
| VD114       | 1 1/4 | 30                              | 4351 |



# VD Series Screw Poppet Interchange

## Misc: VD Series Size Diagram



| DESCRIPTION | BODY SIZE | A   | DIMENSION | D    | E    | F    | H    | I    | J    |
|-------------|-----------|-----|-----------|------|------|------|------|------|------|
| VD38        | 3/8       | 3/8 | mm        | 60.7 | 28   | 63.3 | 24   | 24   | 34   |
|             |           |     | inch      | 2.39 | 1.1  | 2.49 | 0.94 | 0.94 | 1.34 |
| VD12        | 1/2       | 1/2 | mm        | 67.3 | 36   | 73   | 32   | 32   | 42   |
|             |           |     | inch      | 2.65 | 1.42 | 2.87 | 1.26 | 1.26 | 1.65 |
| VD34        | 3/4       | 3/4 | mm        | 72.5 | 42   | 82   | 40   | 40   | 48   |
|             |           |     | inch      | 2.85 | 1.65 | 3.23 | 1.57 | 1.57 | 1.89 |
| VD100       | 1         | 1   | mm        | 82.5 | 48   | 99   | 45   | 45   | 55   |
|             |           |     | inch      | 3.25 | 1.89 | 3.9  | 1.77 | 1.77 | 2.17 |



**VD DIN Thread\_SCHOTT (DIN Bulkhead) | Screw Poppet Interchange**

| PART                 | BODY SIZE | THREAD TYPE | PORT SERIES | TUBE OD | THREAD SIZE     | ORDER CODE | DESCRIPTION              |
|----------------------|-----------|-------------|-------------|---------|-----------------|------------|--------------------------|
| <b>VD DIN THREAD</b> |           |             |             |         |                 |            |                          |
| COUPLER              | 1/2       | DIN         | FEMALE      | 22      | M22X1.5         | 809512000  | INN. F. VD12 M22X1.5     |
| NIPPLE               | 1/2       | DIN         | FEMALE      | 22      | M22X1.5         | 809512001  | INN. M. VD12 M22X1.5     |
| COUPLER              | 1/2       | DIN         | L           | 12      | M 18X1.5        | 809508000  | INN. F. VD12 L12         |
| NIPPLE               | 1/2       | DIN         | L           | 12      | M 18X1.5        | 809508001  | INN. M. VD12 L12         |
| COUPLER              | 1/2       | DIN         | L           | 15      | M 22X1.5        | 809508004  | INN. F. VD12 L15         |
| NIPPLE               | 1/2       | DIN         | L           | 15      | M 22X1.5        | 809508005  | INN. M. VD12 L15         |
| COUPLER              | 1/2       | DIN         | L           | 18      | M 26X1.5        | 809508008  | INN. F. VD12 L18         |
| NIPPLE               | 1/2       | DIN         | L           | 18      | M 26X1.5        | 809508009  | INN. M. VD12 L18         |
| COUPLER              | 1/2       | DIN         | L           | 12      | M 18X1.5 SCHOTT | 809510000  | INN. F. VD12 L12 SCHOTT  |
| NIPPLE               | 1/2       | DIN         | L           | 12      | M 18X1.5 SCHOTT | 809510001  | INN. M. VD12 L12 SCHOTT  |
| COUPLER              | 1/2       | DIN         | L           | 15      | M 22X1.5 SCHOTT | 809510004  | INN. F. VD12 L15 SCHOTT  |
| NIPPLE               | 1/2       | DIN         | L           | 15      | M 22X1.5 SCHOTT | 809510005  | INN. M. VD12 L15 SCHOTT  |
| COUPLER              | 3/4       | DIN         | S           | 16      | M 24X1.5        | 809509014  | INN. F. VD34 S16         |
| NIPPLE               | 3/4       | DIN         | S           | 16      | M 24X1.5        | 809509015  | INN. M. VD34 S16         |
| COUPLER              | 3/4       | DIN         | S           | 16      | M 24X1.5 SCHOTT | 809511014  | INN. F. VD34 S16 SCHOTT  |
| COUPLER              | 3/4       | DIN         | S           | 20      | M 30X1.5 SCHOTT | 809511016  | INN. F. VD34 S20 SCHOTT  |
| NIPPLE               | 3/4       | DIN         | S           | 20      | M 30X1.5 SCHOTT | 809511017  | INN. M. VD34 S20 SCHOTT  |
| COUPLER              | 3/4       | DIN         | FEMALE      | 22      | M 22X1.5        | 809512002  | INN. F. VD34 M22X1.5     |
| NIPPLE               | 3/4       | DIN         | FEMALE      | 22      | M 22X1.5        | 809512003  | INN. M. VD34 M22X1.5     |
| COUPLER              | 1         | DIN         | S           | 20      | M 30X2          | 809509018  | INN. F. VD100 S20        |
| NIPPLE               | 1         | DIN         | S           | 20      | M 30X2          | 809509019  | INN. M. VD100 S20        |
| COUPLER              | 1         | DIN         | S           | 25      | M 36X2          | 809509020  | INN. F. VD100 S25        |
| NIPPLE               | 1         | DIN         | S           | 25      | M 36X2          | 809509021  | INN. M. VD100 S25        |
| COUPLER              | 1         | DIN         | S           | 30      | M 42X2          | 809509022  | INN. F. VD100 S30        |
| NIPPLE               | 1         | DIN         | S           | 30      | M 42X2          | 809509023  | INN. M. VD100 S30        |
| COUPLER              | 1         | DIN         | S           | 20      | M 30X2 SCHOTT   | 809511018  | INN. F. VD100 S20 SCHOTT |
| NIPPLE               | 1         | DIN         | S           | 20      | M 30X2 SCHOTT   | 809511019  | INN. M. VD100 S20 SCHOTT |
| COUPLER              | 1         | DIN         | S           | 25      | M 36X2 SCHOTT   | 809511020  | INN. F. VD100 S25 SCHOTT |
| NIPPLE               | 1         | DIN         | S           | 25      | M 36X2 SCHOTT   | 809511021  | INN. M. VD100 S25 SCHOTT |
| COUPLER              | 1         | DIN         | S           | 30      | M 42X2 SCHOTT   | 809511022  | INN. F. VD100 S30 SCHOTT |
| NIPPLE               | 1         | DIN         | S           | 30      | M 42X2 SCHOTT   | 809511023  | INN. M. VD100 S30 SCHOTT |
| COUPLER              | 1         | DIN         | S           | 38      | M 52X2 SCHOTT   | 809511024  | INN. F. VD100 S38 SCHOTT |
| COUPLER              | 1 1/4     | DIN         | S           | 38      | M 52X2          | 809509028  | INN. F. VD114 S38        |
| NIPPLE               | 1 1/4     | DIN         | S           | 38      | M 52X2          | 809509029  | INN. M. VD114 S38        |
| COUPLER              | 1 1/4     | DIN         | S           | 38      | M 52X2 SCHOTT   | 809511028  | INN. F. VD114 S38 SCHOTT |
| NIPPLE               | 1 1/4     | DIN         | S           | 38      | M 52X2 SCHOTT   | 809511029  | INN. M. VD114 S38 SCHOTT |



COUPLER



NIPPLE



# VD Series Screw Poppet Interchange

## VD BSP and NPT Thread\_Screw Poppet Interchange



COUPLER



NIPPLE

| PART                 | BODY SIZE | THREAD TYPE | THREAD SIZE | PORT THREAD  | ORDER CODE | DESCRIPTION                     |
|----------------------|-----------|-------------|-------------|--------------|------------|---------------------------------|
| <b>VD BSP THREAD</b> |           |             |             |              |            |                                 |
| COUPLER              | 3/8       | BSP         | 1/4         | 1/4-9        | 809500008  | INN. F. VD38 1/4 BSP            |
| NIPPLE               | 3/8       | BSP         | 1/4         | 1/ -9        | 809500009  | INN. M. VD38 1/4 BSP            |
| COUPLER              | 3/8       | BSP         | 3/8         | 3/8-19       | 809500010  | INN. F. VD38 3/8 BSP            |
| NIPPLE               | 3/8       | BSP         | 3/8         | 3/8-19       | 809500011  | INN.M VD38 3/8 BSP              |
| COUPLER              | 3/8       | BSP         | 3/8         | 3/8-19       | 809500012  | F. VD38 3/8 BSP EST DIN3852-2-A |
| NIPPLE               | 3/8       | BSP         | 3/8         | 3/8-19       | 809500013  | M. VD38 3/8 BSP EST DIN3852-2-A |
| COUPLER              | 1/2       | BSP         | 3/8         | 3/8-19       | 809500000  | INN. F. VD12 3/8 BSP            |
| NIPPLE               | 1/2       | BSP         | 3/8         | 3/8-19       | 809500001  | INN. M. VD12 3/8 BSP            |
| COUPLER              | 1/2       | BSP         | 1/2         | 1/2-4        | 809500002  | INN. F. VD12 1/2 BSP            |
| NIPPLE               | 1/2       | BSP         | 1/2         | 1/2-4        | 809500003  | INN. M. VD12 1/2 BSP            |
| COUPLER              | 1/2       | BSP         | 1/2         | 1/2-4        | 809500004  | INN. F. VD12 1/2 BSP EST        |
| NIPPLE               | 1/2       | BSP         | 1/2         | 1/2-4        | 809500005  | INN. M. VD12 1/2 BSP EST        |
| COUPLER              | 3/4       | BSP         | 1/2         | 1/2-4        | 809500014  | INN. F. VD34 1/2 BSP            |
| NIPPLE               | 3/4       | BSP         | 1/2         | 1/2-4        | 809500015  | INN. M. VD34 1/2 BSP            |
| COUPLER              | 3/4       | BSP         | 3/4         | 3/4-14       | 809500016  | INN. F. VD34 3/4 BSP            |
| NIPPLE               | 3/4       | BSP         | 3/4         | 3/4-14       | 809500017  | INN. M. VD34 3/4 BSP            |
| COUPLER              | 1         | BSP         | 3/4         | 3/4-14       | 809500018  | INN. F. VD100 3/4 BSP           |
| NIPPLE               | 1         | BSP         | 3/4         | 3/4-14       | 809500019  | INN. M. VD100 3/4 BSP           |
| COUPLER              | 1         | BSP         | 1           | 1-11         | 809500020  | INN. F. VD100 1 BSP             |
| NIPPLE               | 1         | BSP         | 1           | 1-11         | 809500021  | INN. M. VD100 1 BSP             |
| COUPLER              | 1 1/4     | BSP         | 1 1/4       | 1 1/4-11     | 809500022  | INN. F. VD114 1-1/4 BSP         |
| NIPPLE               | 1 1/4     | BSP         | 1 1/4       | 1 1/4-11     | 809500023  | INN. M. VD114 1-1/4 BSP         |
| COUPLER              | 1 1/4     | BSP         | 1-1/2       | 1 1/2-11     | 809500024  | INN. F. VD114 1-1/2 BSP         |
| NIPPLE               | 1 1/4     | BSP         | 1-1/2       | 1 1/2-11     | 809500025  | INN. M. VD114 1-1/2 BSP         |
| <b>VD NPT THREAD</b> |           |             |             |              |            |                                 |
| COUPLER              | 3/8       | NPT         | 1/4         | 1/4-18       | 809501008  | INN. F. VD38 1/4 NPT            |
| NIPPLE               | 3/8       | NPT         | 1/4         | 1/4-18       | 809501009  | INN. M. VD38 1/4 NPT            |
| COUPLER              | 3/8       | NPT         | 3/8         | 3/8-18       | 809501010  | INN. F. VD38 3/8 NPT            |
| NIPPLE               | 3/8       | NPT         | 3/8         | 3/8-18       | 809501011  | INN. M. VD38 3/8 NPT            |
| COUPLER              | 1/2       | NPT         | 3/8         | 3/8-18       | 809501000  | INN. F. VD12 3/8 NPT            |
| NIPPLE               | 1/2       | NPT         | 3/8         | 3/8-18       | 809501001  | INN. M. VD12 3/8 NPT            |
| COUPLER              | 1/2       | NPT         | 1/2         | 1/2-14       | 809501002  | INN. F. VD12 1/2 NPT            |
| NIPPLE               | 1/2       | NPT         | 1/2         | 1/2-14       | 809501003  | INN. M. VD12 1/2 NPT            |
| COUPLER              | 3/4       | NPT         | 1/2         | 1/2-14       | 809501014  | INN. F. VD34 1/2 NPT            |
| NIPPLE               | 3/4       | NPT         | 1/2         | 1/2-14       | 809501015  | INN. M. VD34 1/2 NPT            |
| COUPLER              | 3/4       | NPT         | 3/4         | 3/4-14       | 809501016  | INN. F. VD34 3/4 NPT            |
| NIPPLE               | 3/4       | NPT         | 3/4         | 3/4-14       | 809501017  | INN. M. VD34 3/4 NPT            |
| COUPLER              | 1         | NPT         | 3/4         | 3/4-14       | 809501018  | INN. F. VD100 3/4 NPT           |
| NIPPLE               | 1         | NPT         | 3/4         | 3/4-14       | 809501019  | INN. M. VD100 3/4 NPT           |
| COUPLER              | 1         | NPT         | 1           | 1-11 1/2     | 809501020  | INN. F. VD100 1 NPT             |
| NIPPLE               | 1         | NPT         | 1           | 1-11 1/2     | 809501021  | INN. M. VD100 1 NPT             |
| COUPLER              | 1 1/4     | NPT         | 1 1/4       | 1 1/4-11 1/2 | 809501022  | INN. F. VD114 1-1/4 NPT         |
| NIPPLE               | 1 1/4     | NPT         | 1 1/4       | 1 1/4-11 1/2 | 809501023  | INN. M. VD114 1-1/4 NPT         |
| COUPLER              | 1 1/4     | NPT         | 1-1/2       | 1 1/2-11 1/2 | 809501024  | INN. F. VD114 1-1/2 NPT         |
| NIPPLE               | 1 1/4     | NPT         | 1-1/2       | 1 1/2-11 1/2 | 809501025  | INN. M. VD114 1-1/2 NPT         |

# VR Series European Screw Coupler



COMING SOON



## Stucchi: VR Series

### Series: VR German Screw Coupler

Available in four sizes 3/8, 1/2, 1, 1 1/4 inches, covering the various fields of hydraulic applications. The series VR couplings are mostly used in mobile cranes, trucks and industrial plant applications.

Screw-on system ensures connection with some residual pressure

- Friction ring to prevent accidental disconnection
- Low leakage screw coupling
- Interchangeable with the German market
- Wide range of port options

#### Overview

Due to their rugged design, VR series couplings are particularly well suited for heavy-duty service conditions. The VR coupler is a durable product using a low leakage style valve for the sealing mechanism and threads as the mechanical connection.

#### Technical Characteristics

- Coupling body:  
zinc plated steel
- Nipple is zinc plated  
hardened steel
- Seals: Nitrile
- Anti-extrusion rings  
are Teflon
- Internal components  
purposely designed to  
reduce turbulence
- Wide range of ports on  
request and various seals
- Screw-on system  
ensures connection under  
residual pressure

| DESCRIPTION | SIZE  | MAX. WORKING PRESSURE CONNECTED |      |
|-------------|-------|---------------------------------|------|
|             |       | MPa                             | psi  |
| VR38        | 3/8   | 40                              | 5801 |
| VR12        | 1/2   | 30                              | 4351 |
| VR100       | 1     | 32                              | 4641 |
| VR114       | 1 1/4 | 42                              | 6091 |

# VLS Series Heavy Duty Screw Coupler



COMING SOON



## VLS Series

### Series: VLS Heavy Duty Screw Coupler

Available in two sizes: 1/2 and 1 inch. The series VLS couplings are mostly used on off highway applications and are a very rugged design making them particularly well suited for use in construction equipment under extreme conditions.

#### Overview

VLS series couplings are particularly well suited for heavy-duty service conditions. The VLS coupler is a durable product using heavy duty poppet style valves for the sealing mechanism and threads as the mechanical connection.

#### Technical Characteristics

- Coupling body:  
zinc plated steel
- Nipple is zinc plated  
hardened steel
- Seals: Nitrile
- Anti-extrusion rings  
are Teflon
- Internal components  
designed to reduce  
turbulence and handle  
impulse applications
- Screw-on system  
ensures connection  
under residual pressure

| DESCRIPTION | SIZE | MAX. WORKING PRESSURE CONNECTED |      |
|-------------|------|---------------------------------|------|
|             |      | MPa                             | psi  |
| VLS12       | 1/2  | 46.5                            | 6744 |
| VLS100      | 1    | 46.5                            | 6744 |



## Overview

- VU series are used in any type of hydraulic circuit
- Alternative uses: as pressure sequence valve by adjusting the internal spring loading to the required cracking point, according to the valve size

## Instructions for Use

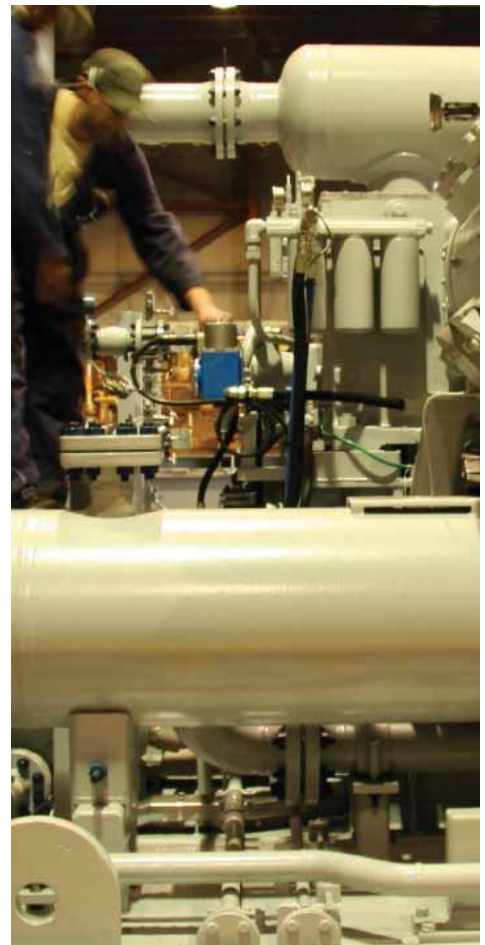
The VU series must be assembled in the circuit so that the direction of the flow corresponds to the direction of the arrow marked on the valve.

## Check Valves: VU Series

### Series: VU

The Stucchi check valve design is safe, compact and suitable to any hydraulic application using non-corrosive liquids. The VU size-range includes two different standard openings at 5 to 65 psi.

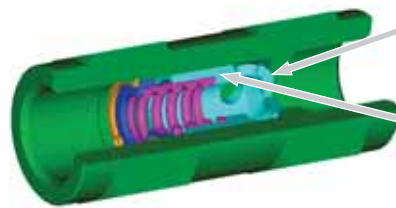
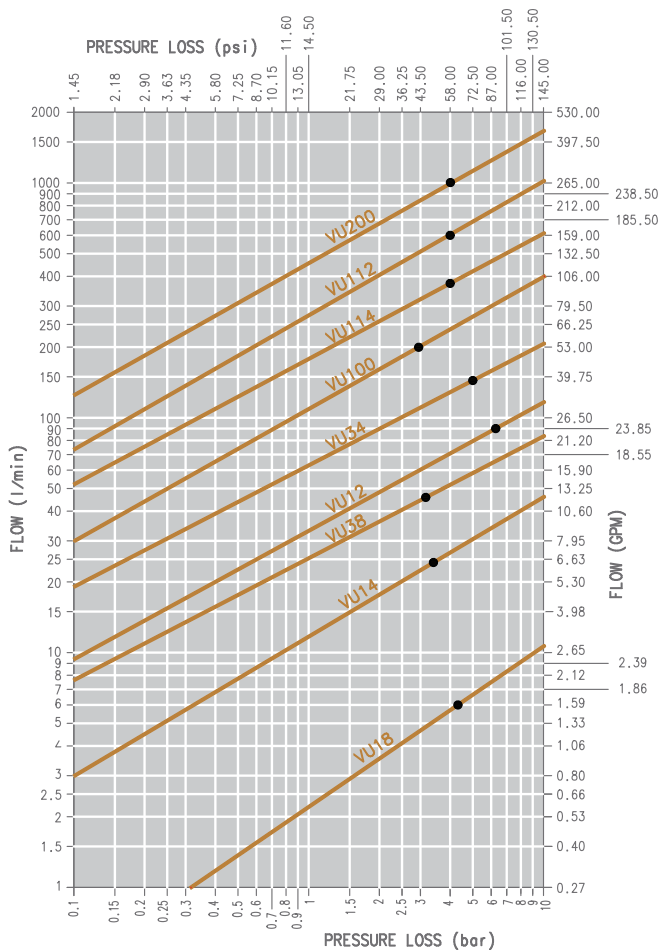
- Material: steel with black phosphate
- Closing spring in C72 material
- Standard Crack 5 psi and 65 psi
- Standard SAE and NPT threads
- Various crack pressures optional
- Central exhausting hole option
- Zinc plating available upon request



# VU Series Check Valves

| DESCRIPTION | SIZE  | MAX SUGGESTED FLOW |        | MAX OPERATING PRESSURE |      | BURST PRESSURE |       |
|-------------|-------|--------------------|--------|------------------------|------|----------------|-------|
|             | Inch  | l/min              | GPM    | MPa                    | psi  | MPa            | psi   |
| VU18        | 1/8   | 6                  | 1.59   | 40                     | 5800 | 160            | 23200 |
| VU14        | 1/4   | 24                 | 6.36   | 35                     | 5075 | 140            | 20300 |
| VU38        | 3/8   | 46                 | 12.19  | 35                     | 5075 | 140            | 20300 |
| VU12        | 1/2   | 90                 | 23.85  | 30                     | 4350 | 120            | 17400 |
| VU34        | 3/4   | 148                | 39.22  | 30                     | 4350 | 120            | 17400 |
| VU100       | 1     | 200                | 53     | 30                     | 4350 | 120            | 17400 |
| VU114       | 1 1/4 | 378                | 100.17 | 25                     | 3625 | 100            | 14500 |
| VU112       | 1 1/2 | 600                | 159    | 25                     | 3625 | 100            | 14500 |
| VU200       | 2     | 1000               | 265    | 15                     | 2175 | 45             | 6525  |

TEMPERATURE RANGE: FROM -20 °C (-4 °F) TO 120 °C (248 °F)

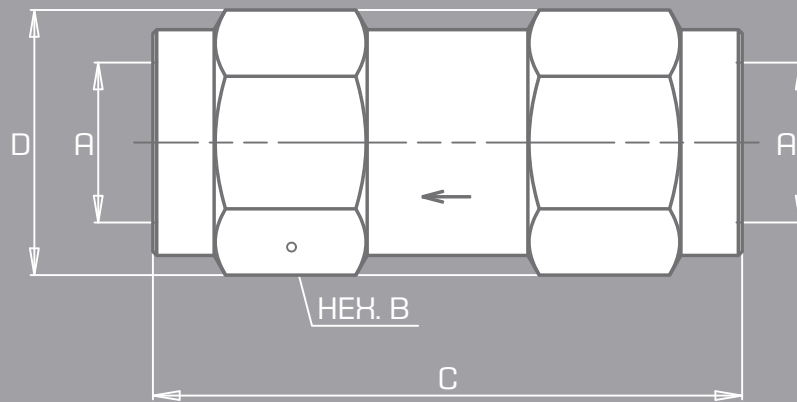


Metal to metal sealing avoids seal extrusion at high flow rates

Sealing Piston hardened with heat treatment



## Check Valves: VU Series Size Diagram



| DESCRIPTION | A     | B    |      | C     |      | D    |      | WEIGHT |      |
|-------------|-------|------|------|-------|------|------|------|--------|------|
|             |       | mm   | inch | mm    | inch | mm   | inch | Kg     | lb   |
| VU18        | 1/8   | 14.0 | 0.55 | 44.0  | 1.73 | 16.2 | 0.64 | 0.038  | 0.08 |
| VU14        | 1/4   | 19.0 | 0.75 | 60.0  | 2.36 | 21.9 | 0.86 | 0.090  | 0.20 |
| VU38        | 3/8   | 24.0 | 0.94 | 70.0  | 2.76 | 27.7 | 1.09 | 0.185  | 0.41 |
| VU12        | 1/2   | 30.0 | 1.18 | 77.0  | 3.03 | 34.6 | 1.36 | 0.303  | 0.67 |
| VU34        | 3/4   | 36.0 | 1.42 | 90.0  | 3.54 | 41.6 | 1.64 | 0.499  | 1.10 |
| VU100       | 1     | 45.0 | 1.77 | 106.0 | 4.17 | 52.0 | 2.05 | 0.901  | 1.99 |
| VU114       | 1 1/4 | 55.0 | 2.17 | 125.0 | 4.92 | 63.5 | 2.50 | 1.513  | 3.34 |
| VU112       | 1 1/2 | 65.0 | 2.56 | 140.0 | 5.51 | 75.1 | 2.96 | 2.430  | 5.36 |
| VU200       | 2     | 75.0 | 2.95 | 160.0 | 6.30 | 86.6 | 3.41 | 3.130  | 6.90 |



# VU Series Check Valves



## VU NPT and SAE Thread Check Valves

| CRACK POINT          | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE BLACK OXIDE | ORDER CODE YELLOW ZINC | PART DESCRIPTION      |
|----------------------|-----------|-----------|-------------|------------------------|------------------------|-----------------------|
| <b>VU NPT THREAD</b> |           |           |             |                        |                        |                       |
| 5 psi                | 1/8       | 1/8       | NPT         | 810201100              | 810501100              | VU 18 NPT 5 PSI       |
| 5 psi                | 1/4       | 1/4       | NPT         | 810201101              | 810501101              | VU 14 NPT 5 PSI       |
| 5 psi                | 3/8       | 3/8       | NPT         | 810201102              | 810501102              | VU 38 NPT 5 PSI       |
| 5 psi                | 1/2       | 1/2       | NPT         | 810201103              | 810501103              | VU 12 NPT 5 PSI       |
| 5 psi                | 3/4       | 3/4       | NPT         | 810201104              | 810501104              | VU 34 NPT 5 PSI       |
| 5 psi                | 1         | 1         | NPT         | 810201105              | 810501105              | VU 100 NPT 5 PSI      |
| 5 psi                | 1 1/4     | 1 1/4     | NPT         | 810201106              | 810501106              | VU 114 NPT 5 PSI      |
| 5 psi                | 1 1/2     | 1 1/2     | NPT         | 810201107              | 810501107              | VU 112 NPT 5 PSI      |
| 5 psi                | 2         | 2         | NPT         | 810201108              | 810501108              | VU 200 NPT 5 PSI      |
| 5 psi                | 3/4       | 3/4       | NPT         | 810201109              | 810501109*             | VU 34F 1.5 NPT 5 PSI  |
| 5 psi                | 1         | 1         | NPT         | 810201110              | 810501110*             | VU 100F 1.5 NPT 5 PSI |
| 5 psi                | 1/2       | 1/2       | NPT         | 810201112              | 810501112*             | VU 12EI NPT 5 PSI**   |
| 65 psi               | 1/8       | 1/8       | NPT         | 810201400              | 810501400              | VU 18 NPT 65 PSI      |
| 65 psi               | 1/4       | 1/4       | NPT         | 810201401              | 810501401              | VU 14 NPT 65 PSI      |
| 65 psi               | 3/8       | 3/8       | NPT         | 810201402              | 810501402              | VU 38 NPT 65 PSI      |
| 65 psi               | 1/2       | 1/2       | NPT         | 810201403              | 810501403              | VU 12 NPT 65 PSI      |
| 65 psi               | 3/4       | 3/4       | NPT         | 810201404              | 810501404              | VU 34 NPT 65 PSI      |
| 65 psi               | 1         | 1         | NPT         | 810201405              | 810501405              | VU 100 NPT 65 PSI     |
| 65 psi               | 1 1/4     | 1 1/4     | NPT         | 810201406              | 810501406              | VU 114 NPT 65 PSI     |
| 65 psi               | 1 1/2     | 1 1/2     | NPT         | 810201407              | 810501407              | VU 112 NPT 65 PSI     |
| 65 psi               | 2         | 2         | NPT         | 810201408              | 810501408              | VU 200 NPT 65 PSI     |
| <b>VU SAE THREAD</b> |           |           |             |                        |                        |                       |
| 5 psi                | 1/4       | 1/4       | SAE         | 810204100              | 810504100              | VU 14 SAE 5 PSI       |
| 5 psi                | 3/8       | 3/8       | SAE         | 810204101              | 810504101              | VU 38 SAE 5 PSI       |
| 5 psi                | 1/2       | 1/2       | SAE         | 810204102              | 810504102              | VU 12 SAE 5 PSI       |
| 5 psi                | 3/4       | 3/4       | SAE         | 810204103              | 810504103              | VU 34 SAE 5 PSI       |
| 5 psi                | 1         | 1         | SAE         | 810204104              | 810504104              | VU 100 SAE 5 PSI      |
| 5 psi                | 1 1/4     | 1 1/4     | SAE         | 810204105              | 810504105              | VU 114 SAE 5 PSI      |
| 5 psi                | 1 1/2     | 1 1/2     | SAE         | 810204106              | 810504106              | VU 112 SAE 5 PSI      |
| 5 psi                | 2         | 2         | SAE         | 810204107              | 810504107              | VU 200 SAE 5 PSI      |
| 65 psi               | 1/4       | 1/4       | SAE         | 810204400              | 810504400              | VU 14 SAE 65 PSI      |
| 65 psi               | 3/8       | 3/8       | SAE         | 810204401              | 810504401              | VU 38 SAE 65 PSI      |
| 65 psi               | 1/2       | 1/2       | SAE         | 810204402              | 810504402              | VU 12 SAE 65 PSI      |
| 65 psi               | 3/4       | 3/4       | SAE         | 810204403              | 810504403              | VU 34 SAE 65 PSI      |
| 65 psi               | 1         | 1         | SAE         | 810204404              | 810504404              | VU 100 SAE 65 PSI     |
| 65 psi               | 1 1/4     | 1 1/4     | SAE         | 810204405              | 810504405              | VU 114 SAE 65 PSI     |
| 65 psi               | 1 1/2     | 1 1/2     | SAE         | 810204406              | 810504406              | VU 112 SAE 65 PSI     |
| 65 psi               | 2         | 2         | SAE         | 810204407              | 810504407              | VU 200 SAE 65 PSI     |

\*AVAILABLE UPON SPECIAL REQUEST.

\*\*FEMALE X MALE NPT



### VU NPT Thread Check Valves

| CRACK POINT          | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE: | PART DESCRIPTION   |
|----------------------|-----------|-----------|-------------|-------------|--------------------|
| <b>VU NPT THREAD</b> |           |           |             |             |                    |
| 14 psi               | 1/4       | 1/4       | NPT         | 810201200   | VU 14 NPT 14 PSI   |
| 14 psi               | 1/2       | 1/2       | NPT         | 810201201   | VU 12 NPT 14 PSI   |
| 14 psi               | 3/4       | 3/4       | NPT         | 810201202   | VU 34 NPT 14 PSI   |
| 14 psi               | 1         | 1         | NPT         | 810201203   | VU 100 NPT 14 PSI  |
| 14 psi               | 1 1/4     | 1 1/4     | NPT         | 810201204   | VU 114 NPT 14 PSI  |
| 14 psi               | 1 1/2     | 1 1/2     | NPT         | 810201205   | VU 112 NPT 14 PSI  |
| 21 psi               | 1         | 1         | NPT         | 810201300   | VU 100 NPT 21 PSI  |
| 57 psi               | 1/2       | 1/2       | NPT         | 810201409   | VU 12 NPT 57 PSI   |
| 115 psi              | 1/2       | 1/2       | NPT         | 810201600   | VU 12 NPT 115 PSI  |
| 115 psi              | 3/4       | 3/4       | NPT         | 810201601   | VU 34 NPT 115 PSI  |
| 145 psi              | 1         | 1         | NPT         | 810201602   | VU 100 NPT 145 PSI |
| 215 psi              | 1/4       | 1/4       | NPT         | 810201700   | VU 14 NPT 215 PSI  |
| 290 psi              | 1/2       | 1/2       | NPT         | 810201701   | VU 12 NPT 290 PSI  |



### VUS NPT Thread Soft Seat Check Valves

| CRACK POINT           | BODY SIZE | PORT SIZE | THREAD TYPE | ORDER CODE: | PART DESCRIPTION            |
|-----------------------|-----------|-----------|-------------|-------------|-----------------------------|
| <b>VUS NPT THREAD</b> |           |           |             |             |                             |
| 5 psi                 | 3/4       | 3/4       | NPT         | 810701100   | VUS34 NPT 5 PSI SOFT SEAT   |
| 50 psi                | 3/4       | 1         | NPT         | 810201400   | VUS100 NPT 50 PSI SOFT SEAT |

