



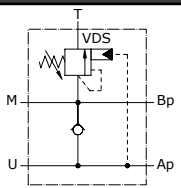
## Type VEP/FC two pump “high-low” unloading valves

- Single acting
- Flanged solution

Port size

**VEP/FC 38/Gr1+1/TV.S**

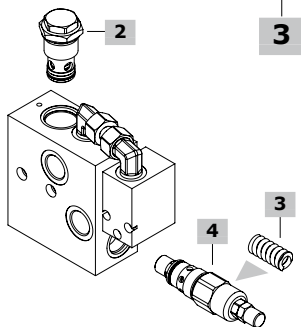
| Type          | Selection 1 | Selection 2 | Nominal flow l/min(US gpm) |           |           | Max. pressure bar(psi) | ports         | weight Kg(lb) |
|---------------|-------------|-------------|----------------------------|-----------|-----------|------------------------|---------------|---------------|
|               |             |             | Ap                         | Bp        | U         |                        |               |               |
| VEP/FC 38     | TB/TV       | -           | 10(2.6)                    | 25(6.6)   | 30(7.9)   | 210(3050)              | As Dimensions | 1.36(3.05)    |
| VEP/FC 38 ac  |             |             | 10(2.6)                    | 25(6.6)   | 30(7.9)   | 350(5100)              |               | 2.48(5.47)    |
| VEP/FC 12     |             |             | 20(5.3)                    | 45(11.9)  | 55(14.5)  | 210(3050)              |               | 2.50(5.51)    |
| VEP/FC 12 ac  |             |             | 20(5.3)                    | 45(11.9)  | 55(14.5)  | 350(5100)              |               | 4.22(9.30)    |
| VEP/FC 34     |             |             | 30(7.9)                    | 80(21.1)  | 100(26.4) | 210(3050)              |               | 3.50(7.72)    |
| VEP/FC 34 ac  |             |             | 30(7.9)                    | 80(21.1)  | 100(26.4) | 350(5100)              |               | 7.91(17.44)   |
| VEP/FC 100    |             |             | 50(13.2)                   | 150(39.6) | 180(47.6) | 210(3050)              |               | 6.21(13.69)   |
| VEP/FC 100 ac |             |             | 50(13.2)                   | 150(39.6) | 180(47.6) | 350(5100)              |               |               |

| Hydraulic diagram                                                                   | Type          | Execution | Operation/ Features        | Max. flow up to |        | Max.press. up to                       |                                          |
|-------------------------------------------------------------------------------------|---------------|-----------|----------------------------|-----------------|--------|----------------------------------------|------------------------------------------|
|                                                                                     |               |           |                            | l/min           | US gpm | bar                                    | psi                                      |
|  | <b>VEP/FC</b> |           | face mounting on gear pump | 180             | 47.6   | 210<br>alum. body<br>350<br>steel body | 3050<br>alum. body<br>5100<br>steel body |

## Ordering codes and description

### Selection 1

Port size  
**VEP/FC 38/Gr1+1/TV.S**

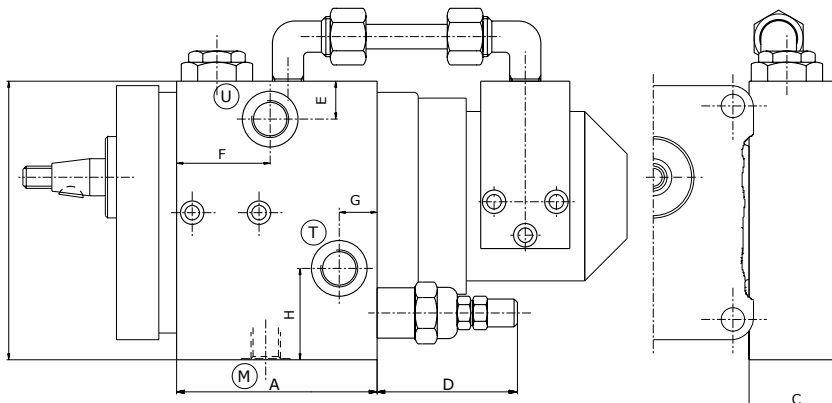


| TYPE                                               | Setting range            |
|----------------------------------------------------|--------------------------|
| For VDS/VEP 38 valve on VEP/FC 38 complete valve   |                          |
| TB                                                 | 5-40 bar (72.5-580 psi)  |
| TV                                                 | 20-80 bar (290-1150 psi) |
| For VDS/VEP 12 valve on VEP/FC 12 complete valve   |                          |
| TV                                                 | 5-80 bar (72.5-1150 psi) |
| For VDS/VEP 34 valve on VEP/FC 34 complete valve   |                          |
| TB                                                 | 10-50 bar (145-725 psi)  |
| TV                                                 | 10-80 bar (145-1150 psi) |
| For VDS/VEP 100 valve on VEP/FC 100 complete valve |                          |
| TB                                                 | 5-40 bar (72.5-580 psi)  |
| TV                                                 | 20-80 bar (290-1150 psi) |

## VEP/FC

## Dimensions

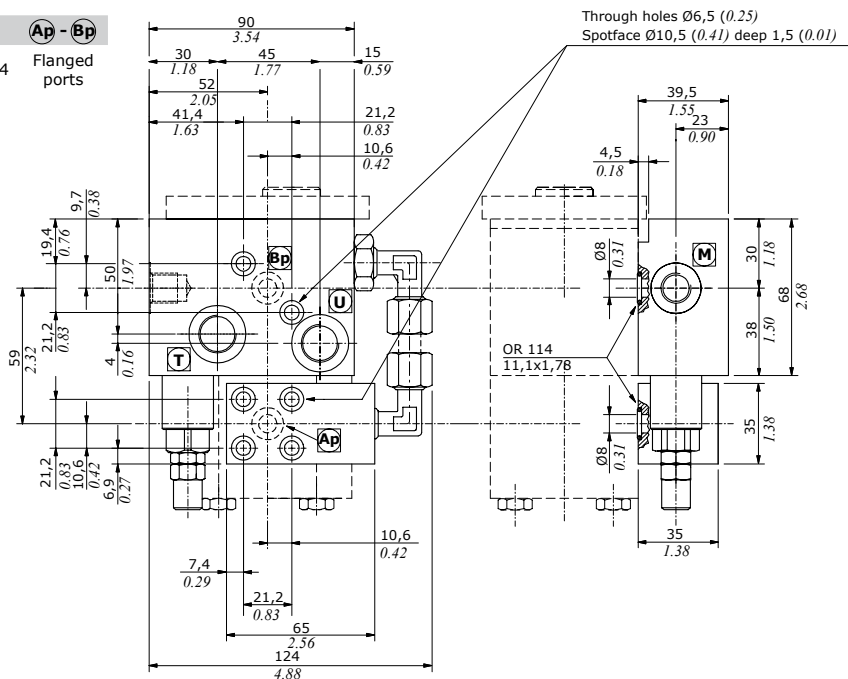
| Valve type          | (M)  | (T-U) |
|---------------------|------|-------|
| VEP/FC 38 Gr 1+1    | G1/4 | G3/8  |
| VEP/FC 12 Gr 2+1    | G1/4 | G1/2  |
| VEP/FC 12 Gr 2+2    | G1/4 | G1/2  |
| VEP/FC 34 Gr 3+1    | G1/4 | G3/4  |
| VEP/FC 34 Gr 3+1    | G1/4 | G3/4  |
| VEP/FC 34 Gr 3+2    | G1/4 | G3/4  |
| VEP/FC 50 Gr 3+3    | G1/4 | G1"   |
| VEP/FC 100 Gr 3,5+3 | G1/4 | G1"   |



Dimensions are in mm-in

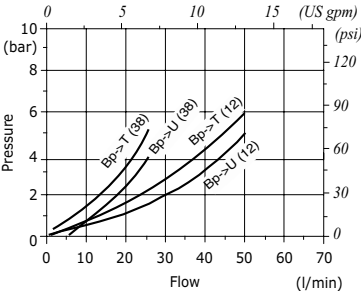
| Valve type          | A           | B           | C          | D          | E          | F          | G          | H          | Ap         | Bp          |
|---------------------|-------------|-------------|------------|------------|------------|------------|------------|------------|------------|-------------|
| VEP/FC 38 Gr 1+1    | 80<br>3.15  | 90<br>3.54  | 40<br>1.57 | 60<br>2.36 | 15<br>0.59 | 46<br>1.81 | 18<br>0.7  | 30<br>1.18 | 10<br>0.39 | 25<br>0.98  |
| VEP/FC 12 Gr 2+1    | 90<br>3.54  | 125<br>4.92 | 40<br>1.57 | 65<br>2.56 | 17<br>0.67 | 43<br>1.69 | 17<br>0.67 | 41<br>1.61 | 15<br>0.59 | 45<br>1.77  |
| VEP/FC 12 Gr 2+2    | 90<br>3.54  | 125<br>4.92 | 40<br>1.57 | 65<br>2.56 | 17<br>0.67 | 43<br>1.69 | 17<br>0.67 | 41<br>1.61 | 25<br>0.98 | 45<br>1.77  |
| VEP/FC 34 Gr 3+1    | 120<br>4.72 | 130<br>5.11 | 60<br>2.36 | 72<br>2.83 | 30<br>1.18 | 64<br>2.52 | 22<br>0.86 | 51<br>2    | 20<br>0.79 | 80<br>3.15  |
| VEP/FC 34 Gr 3+1    | 120<br>4.72 | 130<br>5.11 | 60<br>2.36 | 72<br>2.83 | 30<br>1.18 | 64<br>2.52 | 22<br>0.86 | 51<br>2    | 35<br>1.38 | 80<br>3.15  |
| VEP/FC 34 Gr 3+2    | 120<br>4.72 | 130<br>5.11 | 60<br>2.36 | 72<br>2.83 | 30<br>1.18 | 64<br>2.52 | 22<br>0.86 | 51<br>2    | 45<br>1.77 | 80<br>3.15  |
| VEP/FC 50 Gr 3+3    | 140<br>5.51 | 160<br>6.3  | 75<br>2.95 | 90<br>3.54 | 31<br>1.22 | 84<br>3.3  | 32<br>1.26 | 66<br>2.6  | 60<br>2.36 | 120<br>4.72 |
| VEP/FC 100 Gr 3,5+3 | 140<br>5.51 | 160<br>6.3  | 75<br>2.95 | 90<br>3.54 | 31<br>1.22 | 84<br>3.3  | 32<br>1.26 | 66<br>2.6  | 80<br>3.15 | 150<br>5.9  |

| Valve type           | (U)  | (T)  | (M)  | (Ap-Bp)       |
|----------------------|------|------|------|---------------|
| VEP/FC 38 Gr 1+1 PLP | G3/8 | G3/8 | G1/4 | Flanged ports |

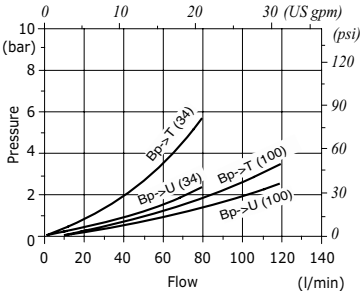


Dimensions

**VEP/FC 38-12 pressure drop vs. flow from Bp→T and Bp→U**



**VEP/FC 34-100 pressure drop vs. flow from Bp→T and Bp→U**



**VEP/FC 38 PLP pressure drop vs. flow from Bp→T and Bp→U**

