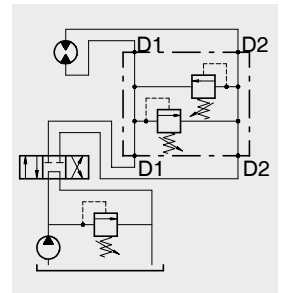


Operation

Direct acting (differential control for the VADDL), poppet type, line mounting.
Allows pressure relief on delivery pipes to engines and cylinders.
Actuator close mount is recommended to assure a more rapid valve action.



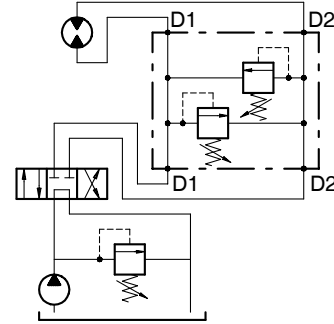
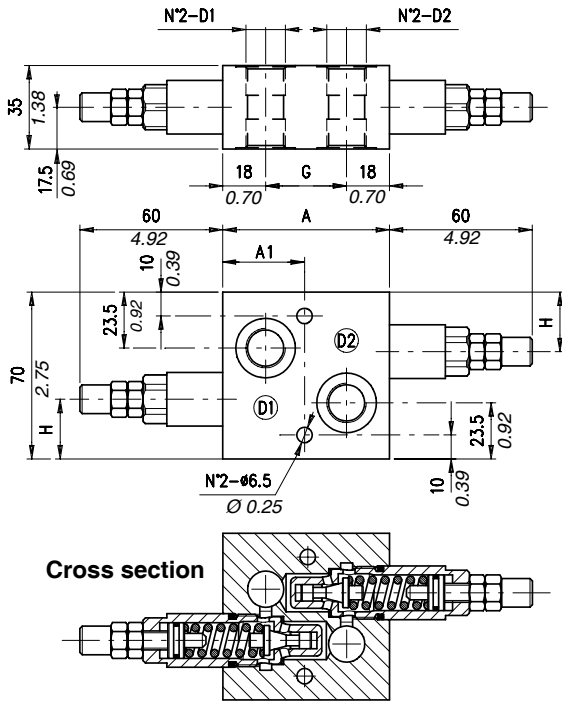
Performance

Body Valves

| Type | Max. flow | | Max. pres. | | Application range with standard spring* | Hysteresis | Oil leaks from P to T | Weight | | Cartridge |
|----------------|-----------------------------|----------------------------|--------------------------------------|--------------|--|---|--|---|---|------------------------------------|
| | l/min | US gpm | bar | psi | | | | kg | lb | |
| VAIL 5 | (38) 25 (12) 35 | (38) 6.6 (12) 9.2 | aluminium body 210 | 3050 | 5÷40 bar - 72.5÷580 psi (test setting 30 bar - 435 psi at 5 l/min. - 1.32 US gpm) | 85% of the setting value for flow capacity 1 l/min. -0.26 US gpm- | - | alum. body 0,67 steel body 1,29 | alum. body 1.48 steel body 2.84 | VMP 5 |
| VAIL 10 | 150 | 40 | steel body 350 | | 5100 | | 20÷80 bar - 290÷1150 psi (test setting 60 bar - 870 psi at 5 l/min. - 1.32 US gpm) | - | alum. body 1,12 steel body 2,20 | alum. body 2.47 steel body 4.85 |
| VAIL 20 | (34) 100 (100) 180 | (34) 26 (100) 48 | 350 | 5100 | 50÷220 bar - 725÷3200 psi (test setting 160 bar - 2300 psi at 5 l/min. - 1.32 US gpm) 180÷350 bar - 2600÷5100 psi (test setting 280 bar - 4100 psi at 5 l/min. - 1.32 US gpm) | | - | alum. body 2,00 steel body 3,55 | alum. body 4.40 steel body 7.83 | VMP 20 |
| VADDL 38 | 35 | 9.2 | aluminium body 210 steel body 350 | 3050 5100 | 50÷210 bar - 725÷3050 psi (test setting 150 bar - 2200 psi at 5 l/min. - 1.32 US gpm) 50-350 bar - 725÷5100 psi (test setting 250 bar-3600 psi at 5 l/min. - 1.32 US gpm) | | disre-gar-dable | alum. body 0,86 steel body 1,50 | alum. body 1.89 steel body 3.30 | VMPD 38 |
| VADDL 12 | 60 | 16 | | | | | | alum. body 1,14 steel body 2,00 | alum. body 2.56 steel body 4.41 | VMPD 12 |
| VADDL 34 (100) | (34) 120 (100) 180 | (34) 32 (100) 48 | | | | | | alum. body 3,38 steel body 4,77 (100) alum. body 3,61 steel body 5,41 | alum. body 7.45 steel body 10.52 (100) alum. body 7.96 steel body 11.93 | VMPD 34 |

*To perform setting of the valve see the pressure drop/ flow diagram.

Dimensions and hydraulic circuit

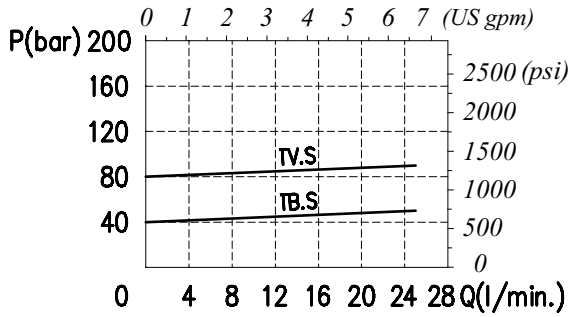


| VAIL | A | A1 | G | H | D1 | D2 |
|------|---------|-----------|----------|------------|-------|-------|
| 5-38 | 70-2.75 | 35-1.38 | 34 -1.34 | 25 -0.98 | G 3/8 | G 3/8 |
| 5-12 | 75-2.95 | 37.5-1.48 | 39 -1.53 | 24.5 -0.96 | G 1/2 | G 1/2 |

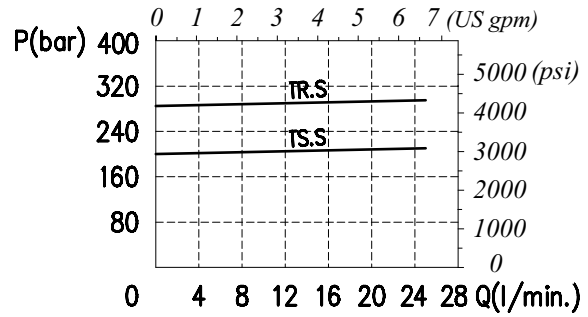
Dimensions are in mm - in

Rating diagrams

Typical pressure drop vs. flow characteristic

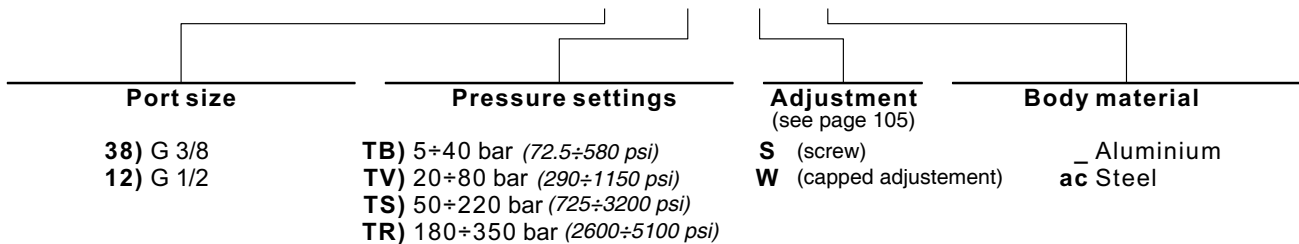


Typical pressure drop vs. flow characteristic

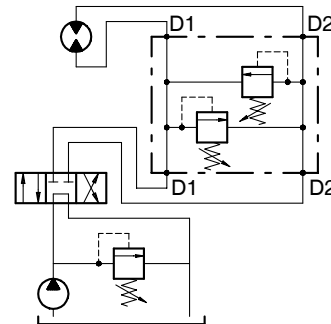
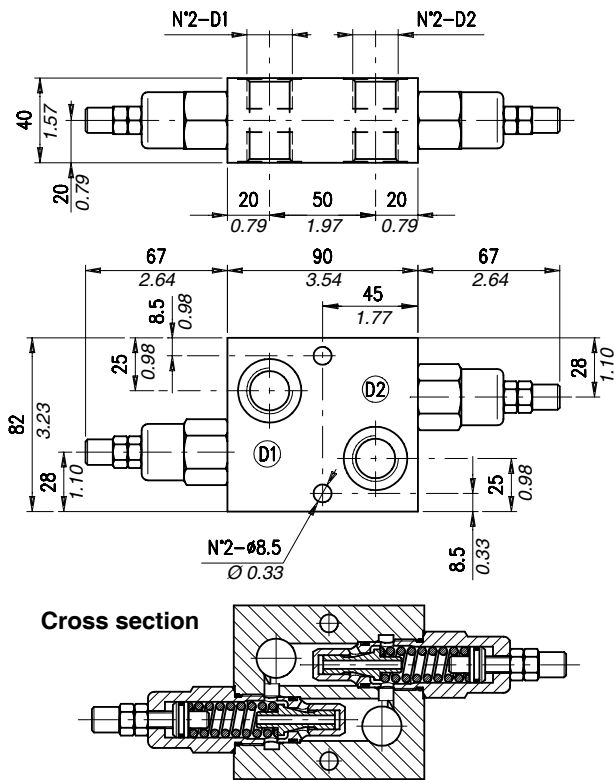


Order code

VAIL 5 - □□ / □□ . □ / □□

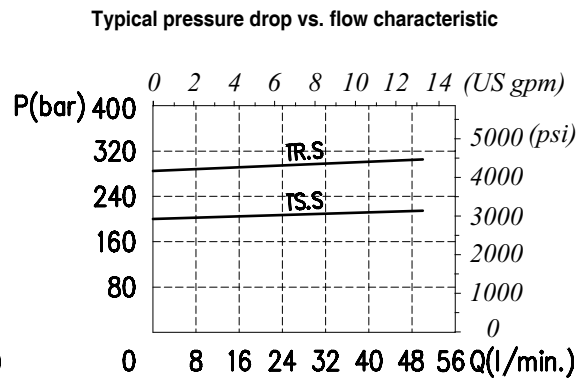
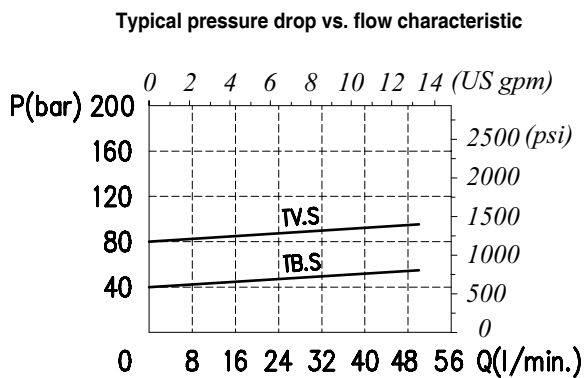


Dimensions and hydraulic circuit



| VAIL | D1 | D2 |
|-------|-------|-------|
| 10-12 | G 1/2 | G 1/2 |
| 10-34 | G 3/4 | G 3/4 |

Rating diagrams

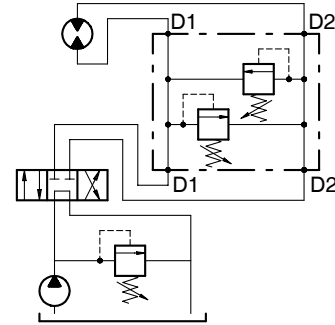
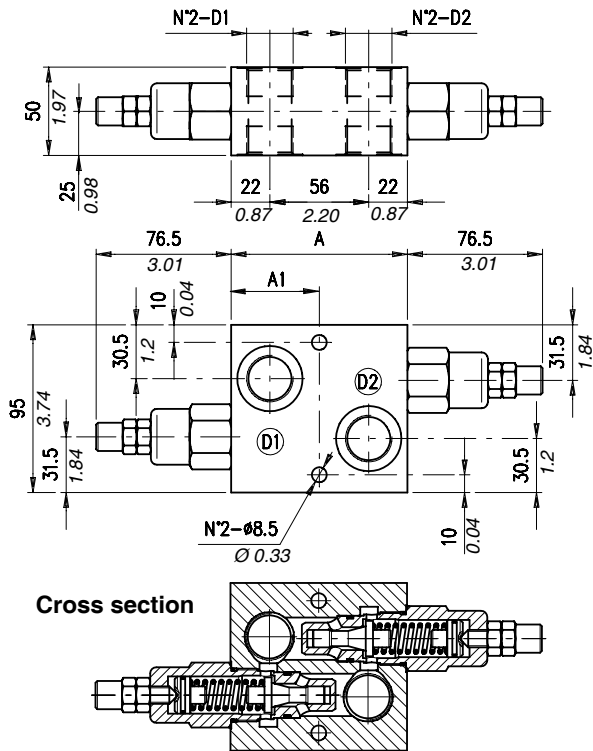


Order code

VAIL 10 - □□ / □□ . □ / □□

| Port size | Pressure settings | Adjustment (see page 105) | Body material |
|------------------------|---|--|-------------------------|
| 12) G 1/2 34) G 3/4 | TB) 5÷40 bar (72.5÷580 psi) TV) 20÷80 bar (290÷1150 psi) TS) 50÷220 bar (725÷3200 psi) TR) 180÷350 bar (2600÷5100 psi) | S (screw) W (capped adjustment) | _ Aluminium ac Steel |

Dimensions and hydraulic circuit

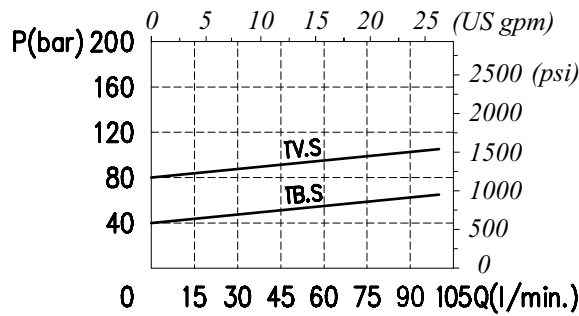


| VAIL | A | A1 | D1 | D2 |
|--------|------------|-----------|-------|-------|
| 20-34 | 100 - 3.93 | 50 - 1.97 | G 3/4 | G 3/4 |
| 20-100 | 120 - 4.72 | 60 - 2.36 | G 1 | G 1 |

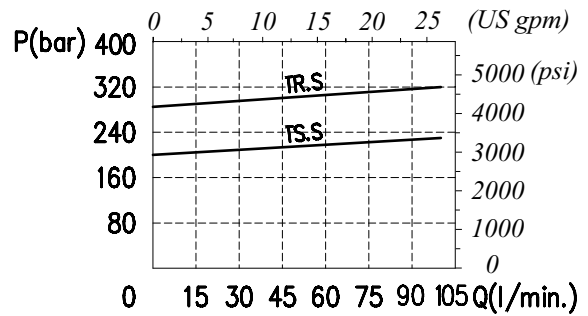
Dimensions are in mm - in

Rating diagrams

Typical pressure drop vs. flow characteristic



Typical pressure drop vs. flow characteristic

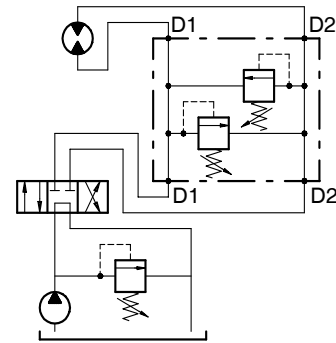
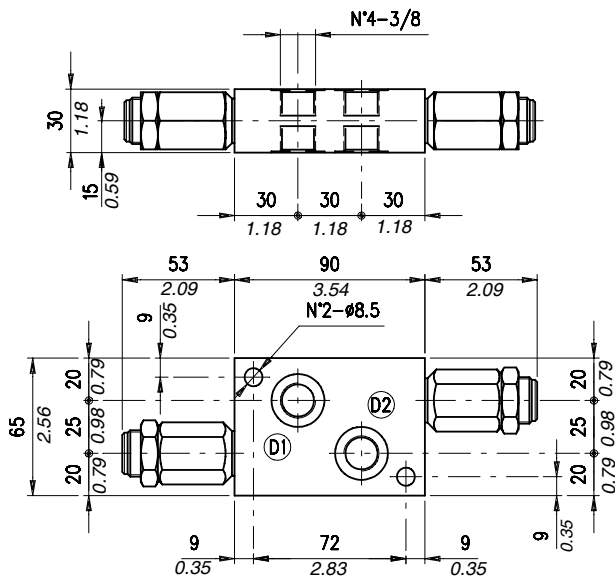


Order code

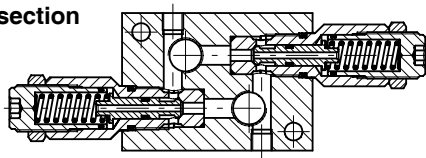
VAIL 20 - □□ / □□ . □ / □□

| Port size | Pressure settings | Adjustment (see page 105) | Body material |
|-----------------------|---|------------------------------------|-----------------------|
| 34) G 3/4 100) G 1 | TB) 5÷40 bar (72.5÷580 psi) TV) 20÷80 bar (290÷1150 psi) TS) 50÷220 bar (725÷3200 psi) TR) 180÷350 bar (2600÷5100 psi) | S (screw) W (capped adjustment) | Aluminium ac Steel |

Dimensions and hydraulic circuit

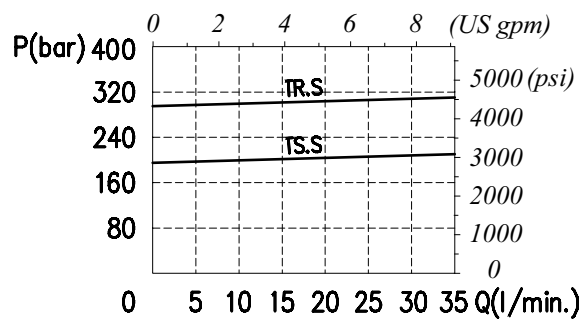


Cross section



Rating diagrams

Typical pressure drop vs. flow characteristic



Order code

VADDL 38 / □□ . S / □□

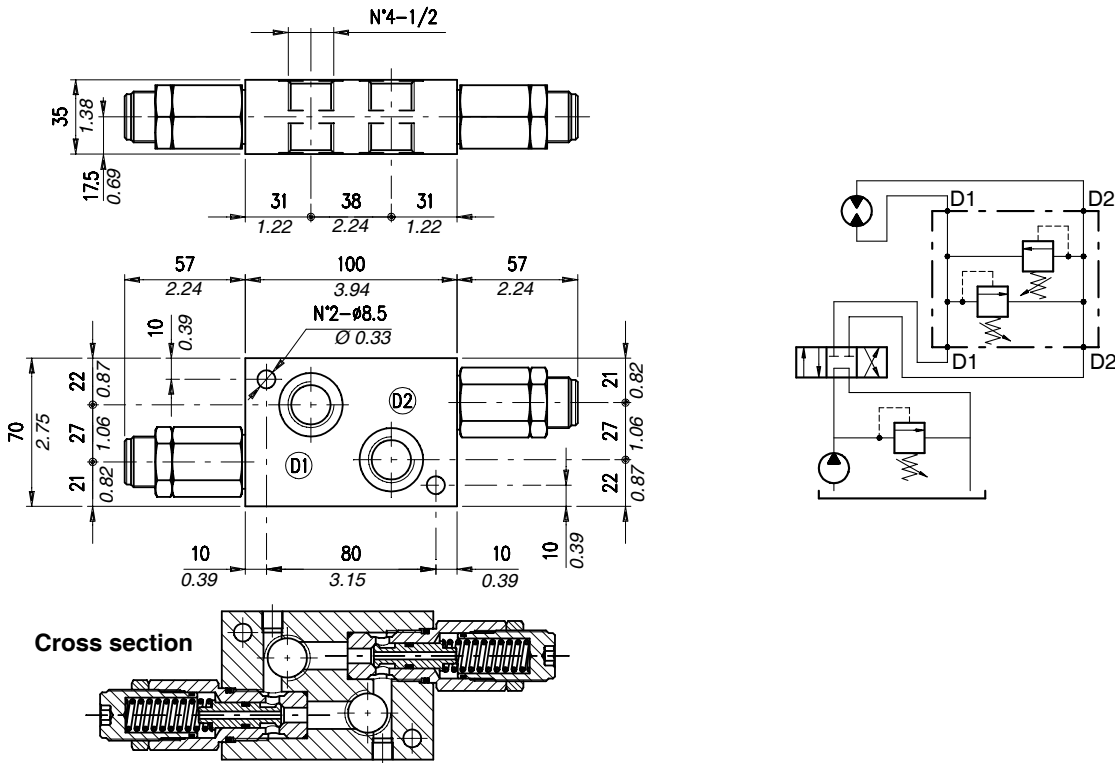
Pressure settings

Body material

TS) 5÷210 bar (72.5÷580 psi)
TR) 50÷350 bar (725÷5100 psi)

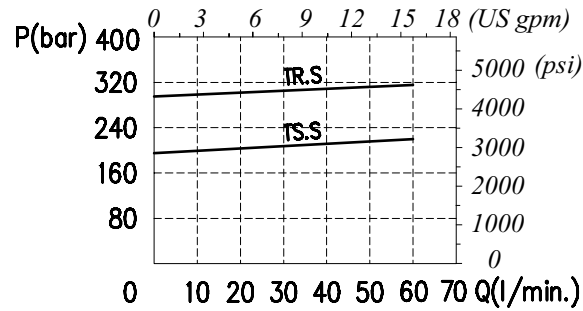
_ Aluminium
ac Steel

Dimensions and hydraulic circuit



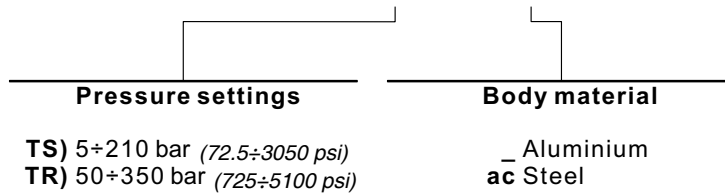
Rating diagrams

Typical pressure drop vs. flow characteristic

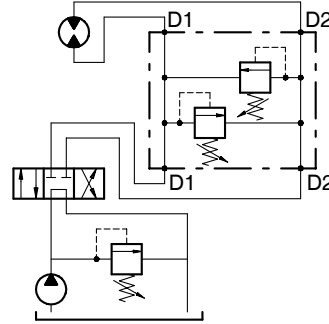
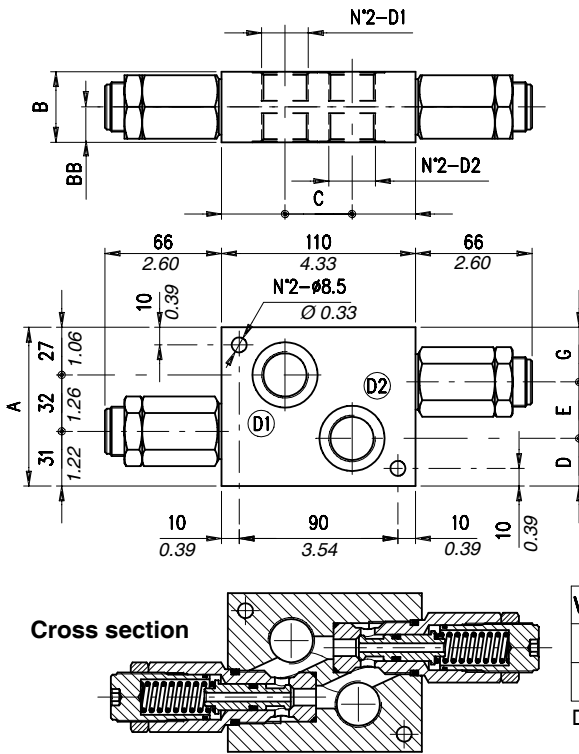


Order code

VADDL 12 / □□ . S / □□



Dimensions and hydraulic circuit

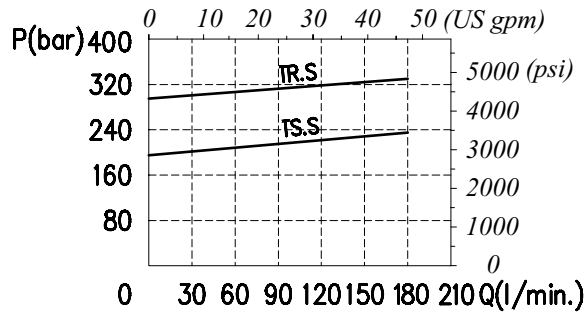


| VADDL | A | B | BB | C | D | E | G | D1 | D2 |
|-------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-------|-------|
| 34 | 90 - 3.54 | 40 - 1.57 | 20 - 0.79 | 38 - 1.50 | 27 - 1.06 | 32 - 1.26 | 31 - 1.22 | G 3/4 | G 3/4 |
| 100 | 100 - 3.94 | 50 - 1.97 | 25 - 0.98 | 50 - 1.97 | 28 - 1.10 | 38 - 1.50 | 34 - 1.34 | G 1 | G 1 |

Dimensions are in mm - in

Rating diagrams

Typical pressure drop vs. flow characteristic



Order code

VADDL □□ / □□ . S / □□

