

## Обратные клапаны ARON VPF - VPM

### Технические характеристики

|                             |                            |                                 |                                |                          |
|-----------------------------|----------------------------|---------------------------------|--------------------------------|--------------------------|
| Архангельск (8182)63-90-72  | Ижевск (3412)26-03-58      | Магнитогорск (3519)55-03-13     | Пермь (342)205-81-47           | Сургут (3462)77-98-35    |
| Астана (7172)727-132        | Иркутск (395)279-98-46     | Москва (495)268-04-70           | Ростов-на-Дону (863)308-18-15  | Тверь (4822)63-31-35     |
| Астрахань (8512)99-46-04    | Казань (843)206-01-48      | Мурманск (8152)59-64-93         | Рязань (4912)46-61-64          | Томск (3822)98-41-53     |
| Барнаул (3852)73-04-60      | Калининград (4012)72-03-81 | Набережные Челны (8552)20-53-41 | Самара (846)206-03-16          | Тула (4872)74-02-29      |
| Белгород (4722)40-23-64     | Калуга (4842)92-23-67      | Нижний Новгород (831)429-08-12  | Санкт-Петербург (812)309-46-40 | Тюмень (3452)66-21-18    |
| Брянск (4832)59-03-52       | Кемерово (3842)65-04-62    | Новокузнецк (3843)20-46-81      | Саратов (845)249-38-78         | Ульяновск (8422)24-23-59 |
| Владивосток (423)249-28-31  | Киров (8332)68-02-04       | Новосибирск (383)227-86-73      | Севастополь (8692)22-31-93     | Уфа (347)229-48-12       |
| Волгоград (844)278-03-48    | Краснодар (861)203-40-90   | Омск (3812)21-46-40             | Симферополь (3652)67-13-56     | Хабаровск (4212)92-98-04 |
| Вологда (8172)26-41-59      | Красноярск (391)204-63-61  | Орел (4862)44-53-42             | Смоленск (4812)29-41-54        | Челябинск (351)202-03-61 |
| Воронеж (473)204-51-73      | Курск (4712)77-13-04       | Оренбург (3532)37-68-04         | Сочи (862)225-72-31            | Череповец (8202)49-02-64 |
| Екатеринбург (343)384-55-89 | Липецк (4742)52-20-81      | Пенза (8412)22-31-16            | Ставрополь (8652)20-65-13      | Ярославль (4852)69-52-93 |
| Иваново (4932)77-34-06      | Киргизия (996)312-96-26-47 | Казахстан (772)734-952-31       | Таджикистан (992)427-82-92-69  |                          |

Единый адрес для всех регионов: [any@nt-rt.ru](mailto:any@nt-rt.ru) || [www.aron.nt-rt.ru](http://www.aron.nt-rt.ru)



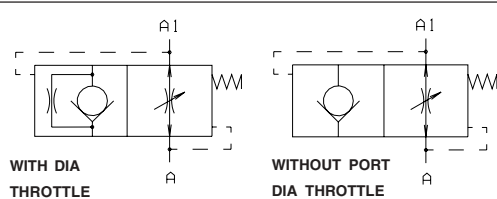
VPF... / VPM...

## VPF / VPM... IN LINE MOUNTING

### ONE-WAY CHECK VALVES

One-way check valves type VP.. are mounted directly onto the cylinder ports to prevent uncontrolled load drop in case of hydraulic system failure. A disc supported in the raised position by a spring allows  $A \rightarrow A_1$  free flow. Under normal conditions reverse flow  $A_1 \rightarrow A$  takes place as usual, but should the reverse (reaction) flow rate go beyond the value set for the valve, the disc will position itself in such a way as to interrupt completely or partially the  $A_1 \rightarrow A$  flow. Total or partial  $A_1 \rightarrow A$  flow shut-off is ensured in the first case by a nearly perfect disk seal on the valve seat, which allows the load blocking in the position it happens to be at the moment of failure. In the second case, on the other hand, a choked opening provided on the disk allows for a blow-by to take place in the direction  $A_1 \rightarrow A$ , such as to make the load drop slowly. These valves are manufactured in heat-treated steel.

|                          |                                                                       |
|--------------------------|-----------------------------------------------------------------------|
| Max. operating pressure  | 350 bar                                                               |
| Max. flow                | 150 l/min                                                             |
| Hydraulic fluids         | Mineral oils DIN 51524                                                |
| Fluid viscosity          | $2.8 \div 380 \text{ mm}^2/\text{s}$                                  |
| Fluid temperature        | $-30^\circ\text{C} \div 80^\circ\text{C}$                             |
| Max. contamination level | class 10 in accordance with NAS 1638 with filter $\beta_{25} \geq 75$ |
| Weight                   | See table below                                                       |



#### ORDERING CODE

VP\*

**F** = Check valve with internal thread  
**M** = Check valve with internal/external thread

\*\*

Size: 07 / 10 / 13 / 19

\*

Reaction flow setting (l/min) see Table 1  
**Omit for setting standard (\*)**  
**A / B / C / D / E / F / G / H**

\*\*

$\varnothing$  throttle port dia - see Table 2 (omit if not required)  
**05** = 0.5 mm  
**08** = 0.8 mm  
**10** = 1 mm  
**15** = 1.5 mm  
**20** = 2 mm

00

No variant

1

Serial No.

For the correct use it is advisable to carry out adjustment "C" so that the reaction flow is 1.5 times the flow rate of the system.

#### FLOW LIMIT CURVES

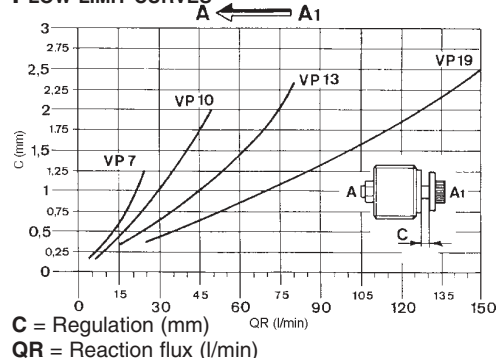


TABLE 1 - REACTION FLOW SETTINGS (l/min)

| Valve type | A  | B  | C  | D  | E   | F   | G   | H    |
|------------|----|----|----|----|-----|-----|-----|------|
| VP*07      | 4  | 6  | 10 | 16 | 25* |     |     |      |
| VP*10      | 6  | 10 | 16 | 25 | 40  | 50* |     |      |
| VP*13      | 16 | 25 | 40 | 50 | 60  | 80* |     |      |
| VP*19      | 25 | 40 | 50 | 60 | 80  | 100 | 125 | 150* |

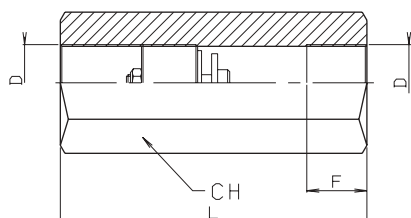
(\*) Standard setting if is omit the code

TABLE 2  $\varnothing$  THROTTLE PORT DIA REQUEST

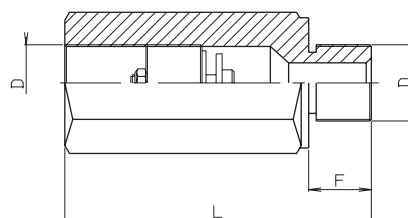
| Valve type | D       | $\varnothing$ | $\varnothing$ | $\varnothing$ | $\varnothing$ |
|------------|---------|---------------|---------------|---------------|---------------|
| VP07       | 1/4"BSP | 0.5           | 0.8           | 1             |               |
| VP10       | 3/8"BSP | 0.5           | 0.8           | 1.2           | 1.5           |
| VP13       | 1/2"BSP | 0.5           | 0.8           | 1.2           | 1.5           |
| VP19       | 3/4"BSP | 0.5           | 1.2           | 1.5           | 2             |

For "VP"one-way cartridge check valves, see Chapter V.

#### OVERALL DIMENSIONS



| Valve type | L  | F  | D       | CH | Weight (Kg) |
|------------|----|----|---------|----|-------------|
| VPF07      | 48 | 12 | 1/4"BSP | 19 | 0.075       |
| VPF10      | 52 | 12 | 3/8"BSP | 22 | 0.097       |
| VPF13      | 62 | 14 | 1/2"BSP | 27 | 0.160       |
| VPF19      | 72 | 16 | 3/4"BSP | 36 | 0.350       |



| Valve type | L  | F  | D       | CH | Weight (Kg) |
|------------|----|----|---------|----|-------------|
| VPM07      | 50 | 12 | 1/4"BSP | 19 | 0.075       |
| VPM10      | 58 | 12 | 3/8"BSP | 22 | 0.105       |
| VPM13      | 70 | 14 | 1/2"BSP | 27 | 0.185       |
| VPM19      | 78 | 16 | 3/4"BSP | 36 | 0.365       |

|                             |                            |                                 |                                |                          |
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