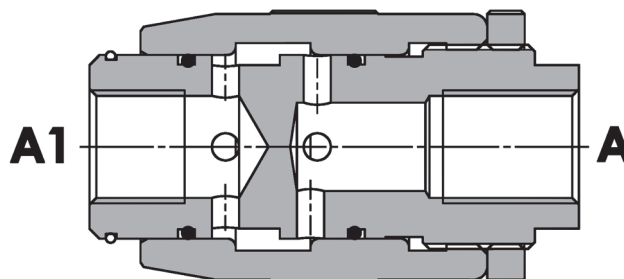


**Valvola regolatrice di flusso bidirezionale, tipo a manicotto**  
**Needle valve, barrel type**

Rev.01-2010/02



### SPECIFICHE TECNICHE

**Materiali:** corpo e parti interne in acciaio. La superficie esterna è protetta mediante zincatura.

**Portata max.:** fino a 150 l/min

**Pressione max.:** 350 bar, vedasi tabella a parte

### TECHNICAL SPECIFICATIONS

**Materials:** body and internal parts are steel made. External surface zinc plated.

**Rated flow:** up to 150 l/min

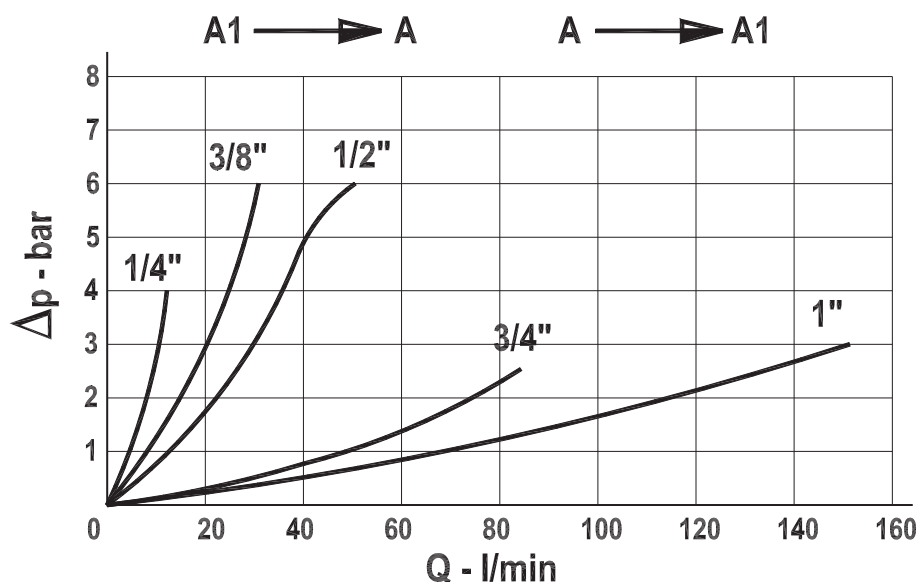
**Max. pressure:** 350 bar, see data sheet

### DIAGRAMMA PERDITE DI CARICO - PRESSURE DROP CURVES

Viscosità olio 24 mm<sup>2</sup>/sec. (3,5 °E)  
 Temperatura 50 °C

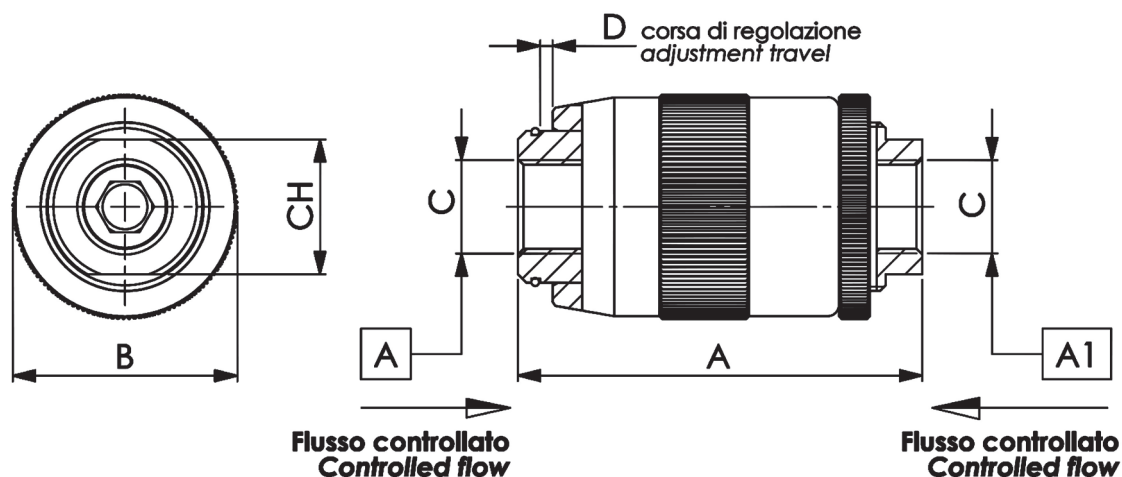
Oil viscosity 24 mm<sup>2</sup>/sec. (3,5 °E)  
 Temperature 50 °C

### STROZZATORE TUTTO APERTO - FULLY OPEN THROTTLE



**Valvola regolatrice di flusso bidirezionale, tipo a manicotto**  
**Needle valve, barrel type**

Rev.01-2010/02



| TIPO<br>TYPE | PORTATA MAX.<br>MAX FLOW | PRESSIONE MAX.<br>MAX PRESSURE | A   | B  | C    | D   | CH | PESO<br>WEIGHT |
|--------------|--------------------------|--------------------------------|-----|----|------|-----|----|----------------|
|              | L/MIN                    | BAR                            | mm  | mm | BSPP | mm  | mm | Kg             |
| FPMB 1/4     | 12                       | 350                            | 62  | 34 | 1/4" | 4.5 | 19 | 0.275          |
| FPMB 3/8     | 30                       | 350                            | 72  | 40 | 3/8" | 5.5 | 24 | 0.430          |
| FPMB 1/2     | 45                       | 310                            | 80  | 46 | 1/2" | 7   | 30 | 0.630          |
| FPMB 3/4     | 85                       | 280                            | 100 | 54 | 3/4" | 10  | 36 | 1.050          |
| FPMB 1       | 150                      | 250                            | 125 | 65 | 1"   | 12  | 41 | 1.960          |

**ESEMPIO DI ORDINAZIONE - ORDERING CODE EXAMPLE**

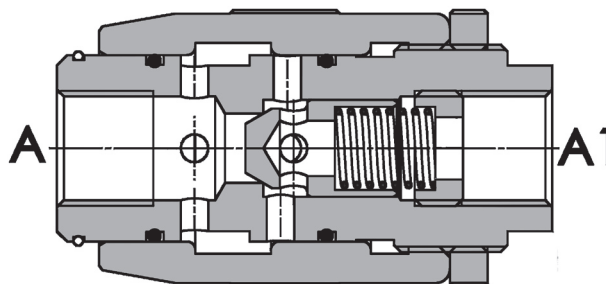
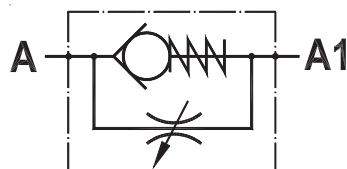
**F P M B**    **1 / 2**    **\***

1/4 - 1/4" BSPP  
 3/8 - 3/8" BSPP  
 \* 1/2 - 1/2" BSPP  
 3/4 - 3/4" BSPP  
 Connessioni - Port sizes

Guarnizioni - Seals:  
 V=Viton \*  
 Omettere se BUNA-N - Omit if BUNA-N

**Valvola regolatrice di flusso unidirezionale, tipo a manicotto**  
**Restrictor valve, barrel type**

Rev.01-2010/02



### SPECIFICHE TECNICHE

**Materiali:** corpo e parti interne in acciaio. La superficie esterna è protetta mediante zincatura.

**Portata max.:** 150 l/min

**Pressione max.:** 350 bar, vedasi tabella a parte

**Pressione di apertura:** standard 0,5 bar, a richiesta 2.5-5-10 bar

### TECHNICAL SPECIFICATIONS

**Materials:** body and internal parts are steel made. External surface zinc plated.

**Rated flow:** 150 l/min

**Max. pressure:** 350 bar, see data sheet

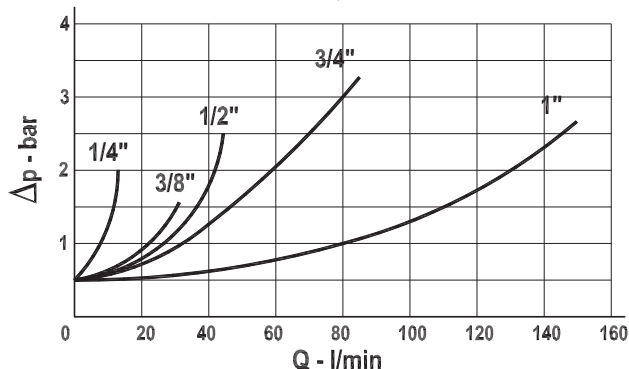
**Cracking pressure:** 0.5 bar standard, 2.5-5-10 bar on request

### DIAGRAMMA PERDITE DI CARICO - PRESSURE DROP CURVES

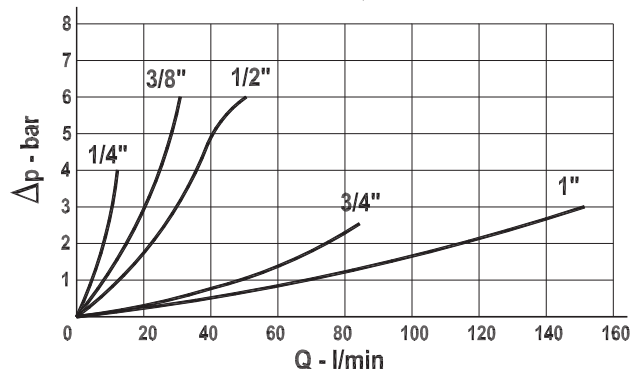
Viscosità olio 24 mm<sup>2</sup>/sec. (3,5 °E)  
 Temperatura 50 °C

Oil viscosity 24 mm<sup>2</sup>/sec. (3,5 °E)  
 Temperature 50 °C

STROZZATORE TUTTO APERTO - FULLY OPEN THROTTLE  
 A → A1

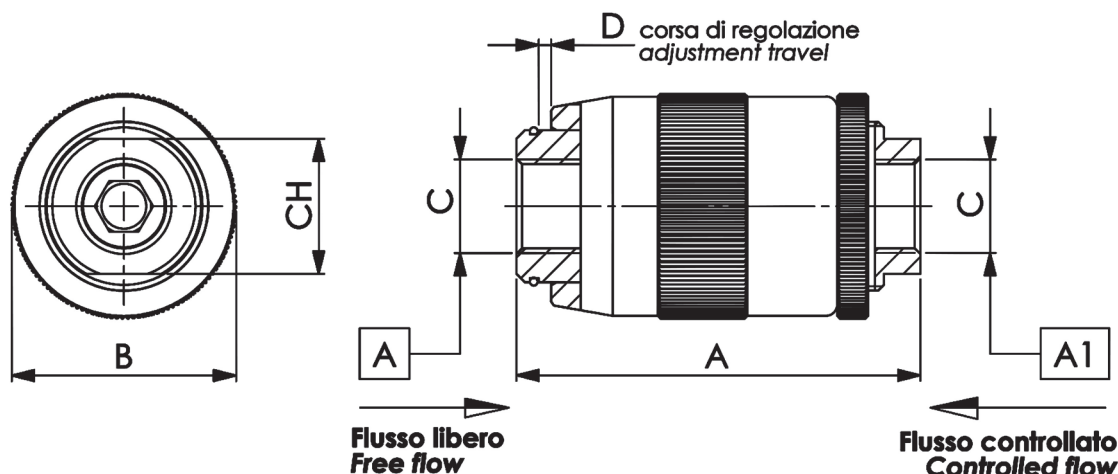


STROZZATORE TUTTO APERTO - FULLY OPEN THROTTLE  
 A1 → A



**Valvola regolatrice di flusso unidirezionale, tipo a manicotto**  
**Restrictor valve, barrel type**

Rev.01-2010/02



| TIPO<br>TYPE | PORTATA MAX.<br>MAX FLOW | PRESSIONE MAX.<br>MAX PRESSURE | A   | B  | C    | D   | CH | PESO<br>WEIGHT |
|--------------|--------------------------|--------------------------------|-----|----|------|-----|----|----------------|
|              | L/MIN                    | BAR                            | mm  | mm | BSPP | mm  | mm | Kg             |
| FPMU 1/4     | 12                       | 350                            | 62  | 34 | 1/4" | 4.5 | 19 | 0.275          |
| FPMU 3/8     | 30                       | 350                            | 72  | 40 | 3/8" | 5.5 | 24 | 0.430          |
| FPMU 1/2     | 45                       | 310                            | 80  | 46 | 1/2" | 7   | 30 | 0.630          |
| FPMU 3/4     | 85                       | 280                            | 100 | 54 | 3/4" | 10  | 36 | 1.050          |
| FPMU 1       | 150                      | 250                            | 125 | 65 | 1"   | 12  | 41 | 1.960          |

**ESEMPIO DI ORDINAZIONE - ORDERING CODE EXAMPLE**

**F P M U**    **1 / 2**    **2 , 5**    **\***

1/4 - 1/4" BSPP  
 3/8 - 3/8" BSPP  
 \* 1/2 - 1/2" BSPP  
 3/4 - 3/4" BSPP  
 Connessioni - Port sizes

0.5 bar (std) - 2.5 bar - 5 bar - 10 bar  
 \* Pressione apertura ritegno, omettere se std  
 Cracking pressure, omit if std

Guarnizioni - Seals:  
 V=Viton \*  
 Omettere se BUNA-N - Omit if BUNA-N