

Tipo (grandezza) morsa / Vise (type) size

1

2

3

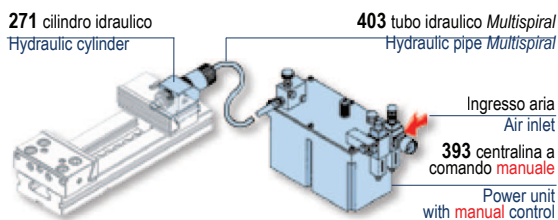
4

5

6

Art. 390

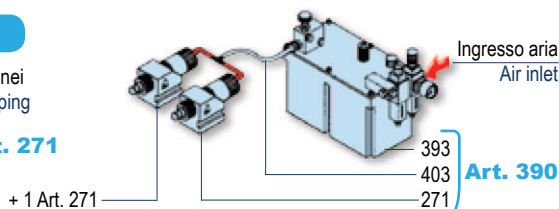
 N° 1 serraggio
 N° 1 clamping

MORSA NON COMPRESA
VICE NOT INCLUDED
Art. 393 + Art. 271 + Art. 403 (m 1,5)


Cod. 4.39.01000 4.39.02000 4.39.03000 4.39.04000 4.39.05000 4.39.06000

Art. 390 / 2

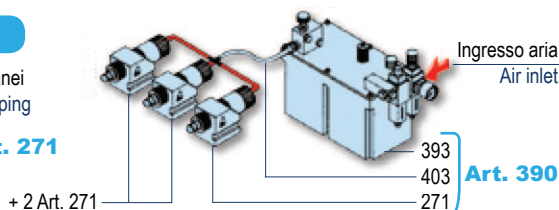
 N° 2 serraggi contemporanei
 N° 2 simultaneously clamping

Art. 390 + n° 1 Art. 271


Cod. 4.39.01002 4.39.02002 4.39.03002 4.39.04002 4.39.05002 4.39.06002

Art. 390 / 3

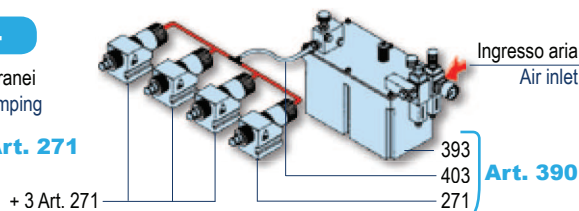
 N° 3 serraggi contemporanei
 N° 3 simultaneously clamping

Art. 390 + n° 2 Art. 271


Cod. 4.39.01003 4.39.02003 4.39.03003 4.39.04003 4.39.05003 4.39.06003

Art. 390 / 4

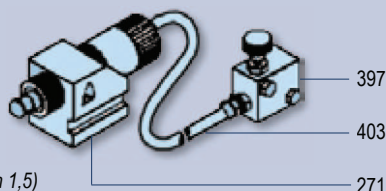
 N° 4 serraggi contemporanei
 N° 4 simultaneously clamping

Art. 390 + n° 3 Art. 271


Cod. 4.39.01004 4.39.02004 4.39.03004 4.39.04004 4.39.05004 4.39.06004

Art. 407

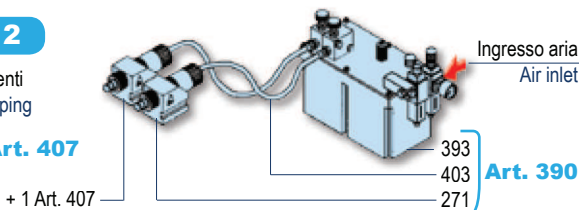
 Gruppo di serraggio indipendente
 Independent clamping group

Art. 271 + Art. 397 + Art. 403 (m 1,5)


Cod. 4.40.71000 4.40.72000 4.40.73000 4.40.74000 4.40.75000 4.40.76000

Art. 390A / 2

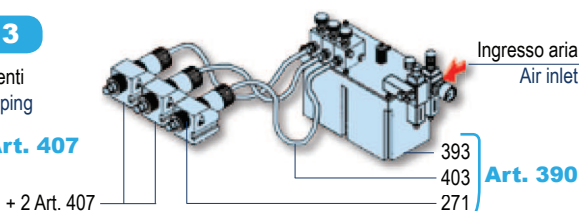
 N° 2 serraggi indipendenti
 N° 2 independent clamping

Art. 390 + n° 1 Art. 407


Cod. 4.39.0A102 4.39.0A202 4.39.0A302 4.39.0A402 4.39.0A502 4.39.0A602

Art. 390A / 3

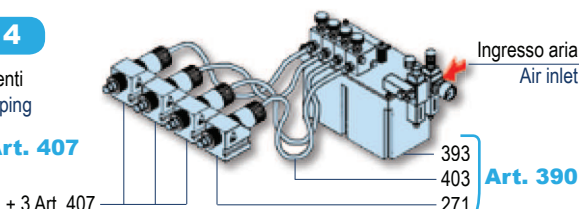
 N° 3 serraggi indipendenti
 N° 3 independent clamping

Art. 390 + n° 2 Art. 407


Cod. 4.39.0A103 4.39.0A203 4.39.0A303 4.39.0A403 4.39.0A503 4.39.0A603

Art. 390A / 4

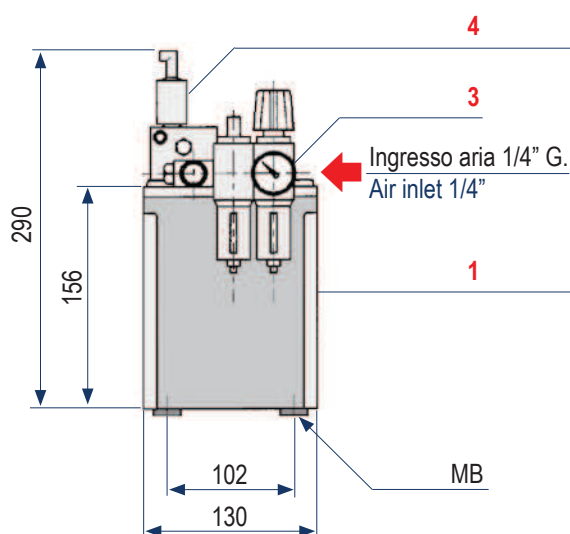
 N° 4 serraggi indipendenti
 N° 4 independent clamping

Art. 390 + n° 3 Art. 407


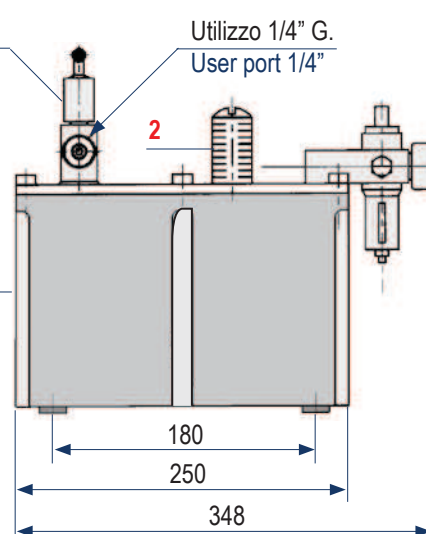
Cod. 4.39.0A104 4.39.0A204 4.39.0A304 4.39.0A404 4.39.0A504 4.39.0A604

ISTRUZIONI
CENTRALINA OLEOPNEUMATICA

La centralina per serraggi idraulici ed i suoi derivati, nasce per soddisfare tutte le esigenze connesse all'azionamento di cilindri oleodinamici ove sia richiesta bassa portata ed elevate pressioni. La particolare forma costruttiva della centralina permette di ottenere, in ingombri estremamente contenuti, un impianto di elevate prestazioni. L'elemento pompante utilizzato consente, grazie ai particolari criteri costruttivi, di collocare la centralina in ambienti altamente ostili come, per esempio, l'area di lavoro di macchine utensili. L'esclusivo sistema modulare di controllo del flusso idraulico permette di comandare separatamente, con una sola unità, fino a sei utilizzi distinti.


INSTRUCTIONS
HYDROPNEUMATIC POWER UNIT

The hydropneumatic power unit for hydraulic clamping devices and its bi-products are designed to meet all needs regarding the powering of hydraulic cylinders where low flow rates and high pressures are required. The special design shape of the power unit is such that a high performance system can be implemented taking up very little space. Thanks to the special design principles, the pump section adopted allows the hydropneumatic power unit to be installed in very hostile environments, such as the work area of machine tools, etc. The unique modular hydraulic flow control system allows controlling up to 6 separate users from just the one power unit.


CARATTERISTICHE TECNICHE
SPECIFICATION
Centralina tipo / Power unit type 450 T 2/3/4

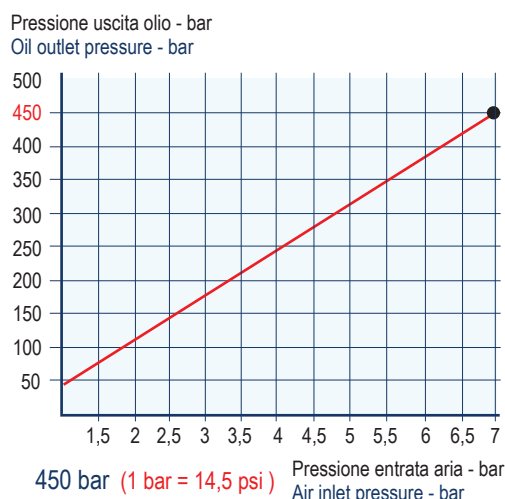
Pressione massima aria: Max permissible air pressure:	7 bar
Pressione aria consigliata: Recommended air pressure:	5,5 bar
Tipo di olio raccomandato: idraulico Recommended grade of oil: hydraulic	68 CSt
Portata Deliveries	0,06 L / 1' Litres / min
Capacità serbatoio Tank capacity	3 L
Delta massimo su pilotaggi elettrici: Max delta on electric pilot section:	+ 10% - 5%
Pressione minima su pilotaggio pneumatico: Minimum pressure on pneumatic control:	5 bar
Pressione massima consentita per eventuale pilotaggio elettroidraulico: Max pressure for elettrohydraulic control:	150 bar
Numero massimo consigliato di utilizzi: Max permissible air pressure	6

La pompa nella versione base viene fornita completa di:

- serbatoio in teflon **1**
- tappo di carica
- silenziatore **2**
- attacco di alimentazione aria del tipo ad innesto rapido D8 **3**
- un blocco di comando oleodinamico **4**

The pump in its basic version is supplied complete with:

- teflon tank **1**
- fill plug
- silencer **2**
- quick acting air connector fitting type D8 **3**
- hydraulic control block **4**



SERRAGGIO IDRAULICO
HYDRAULIC CLAMPING
**TRAMITE GRUPPI DI SERRAGGIO PNEUMATICI
E OLEODINAMICI**
**THROUGH PNEUMO-HYDRAULIC AND HYDRAULIC
CLAMPING DEVICES**

I diagrammi seguenti consentono di determinare le forze di serraggio ottenibili con le morse di varia grandezza (da 1 a 6), provvisti di vari dispositivi di bloccaggio idraulici, in funzione della pressione dei fluidi (aria e olio)

The following diagrams give the clamping force that can be obtained with each vise type (size 1 to 6) when equipped with hydraulic blocking devices, as a function of the fluid pressure (air or oil)

MORSE MODULARI TIPO 1
MODULAR VISES TYPE 1

Cilindro idraulico Art. 285 - 568 - 569
 Ø interno 20 mm - Superficie efficace 3 cm²
 Hydraulic cylinder Art. 285 - 568 - 569
 Cylinder I.D. 20 mm - Effective area 3 cm²

MORSE MODULARI TIPO 2-3-4
MODULAR VISES TYPE 2-3-4

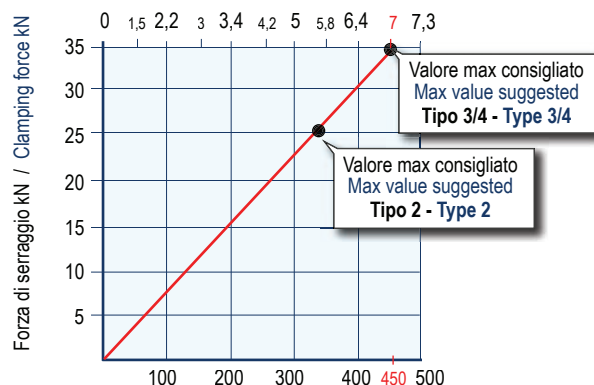
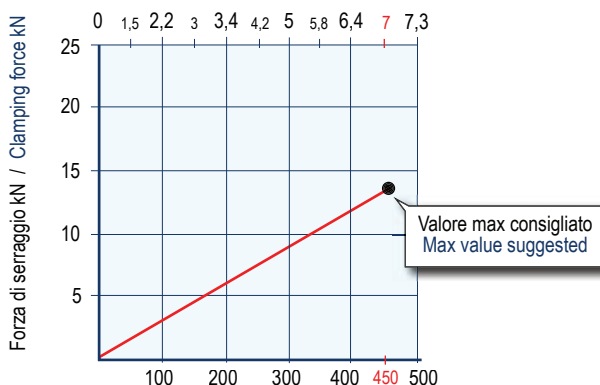
Cilindro idraulico Art. 285 - 568 - 569
 Ø interno 30 mm - Superficie efficace 7 cm²
 Hydraulic cylinder Art. 285 - 568 - 569
 Cylinder I.D. 30 mm - Effective area 7 cm²

Con moltiplicatore di pressione Art. 393 (Tipo 450)
 With pressure multiplier Art. 393 (Type 450)

Con moltiplicatore di pressione Art. 393 (Tipo 450)
 With pressure multiplier Art. 393 (Type 450)

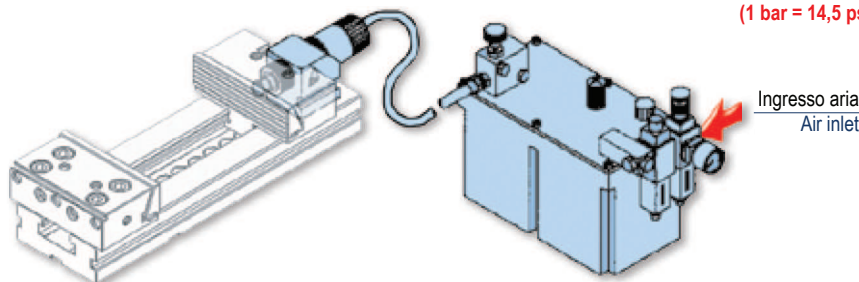
Pressione entrata aria bar / Air inlet pressure bar

Pressione entrata aria bar / Air inlet pressure bar



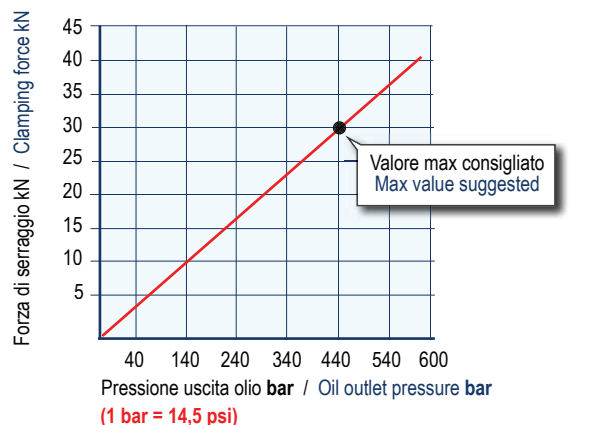
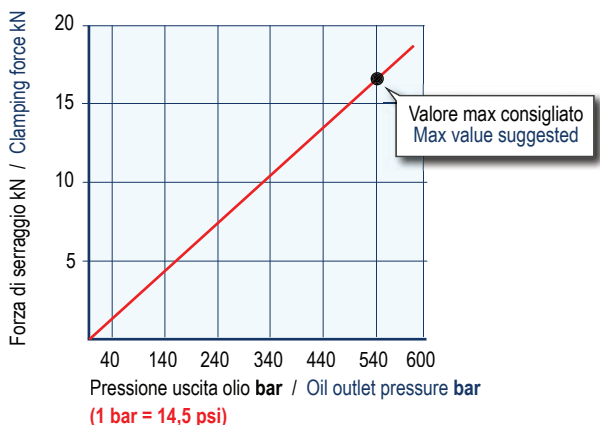
Pressione uscita olio bar / Oil outlet pressure bar
 (1 bar = 14,5 psi)

Pressione uscita olio bar / Oil outlet pressure bar
 (1 bar = 14,5 psi)



Con centralina elettroidraulica Art. 266 - 267 - 502 - 503
 With motor driven hydraulic power unit Art. 266 - 267 - 502 - 503

Con centralina elettroidraulica Art. 266 - 267 - 502 - 503
 With motor driven hydraulic power unit Art. 266 - 267 - 502 - 503



NB: Alcuni fattori, come la lubrificazione, lo staffaggio, gli attriti ed altro, possono modificare i valori indicati fino a $\pm 10\%$.
 Per un corretto utilizzo non superare i valori indicati nel grafico

Some factor as lubrication, clamping on the machine table, frictions and more can modify above values within a $\pm 10\%$ range. For optimum operation do not exceed chart values.

SERRAGGIO IDRAULICO

TRAMITE GRUPPI DI SERRAGGIO PNEUMATICI E OLEODINAMICI

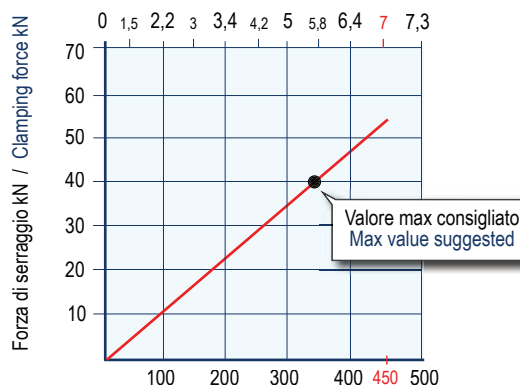
I diagrammi seguenti consentono di determinare le forze di serraggio ottenibili con le morse di varia grandezza (da 1 a 6), provvisti di vari dispositivi di bloccaggio idraulici, in funzione della pressione dei fluidi (aria e olio)

MORSE MODULARI TIPO 5 MODULAR VISES TYPE 5

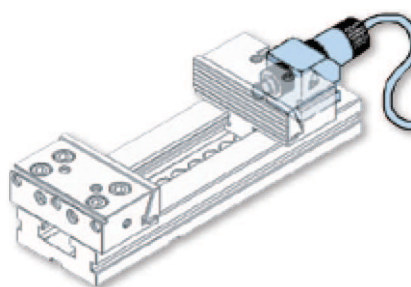
Cilindro idraulico Art. 285 - 568 - 569
Ø interno 40 mm - Superficie efficace 12,5 cm²
Hydraulic cylinder Art. 285 - 568 - 569
Cylinder I.D. 40 mm - Effective area 12.5 cm²

Con moltiplicatore di pressione Art. 393 (Tipo 450)
With pressure multiplier Art.393 (Type 450)

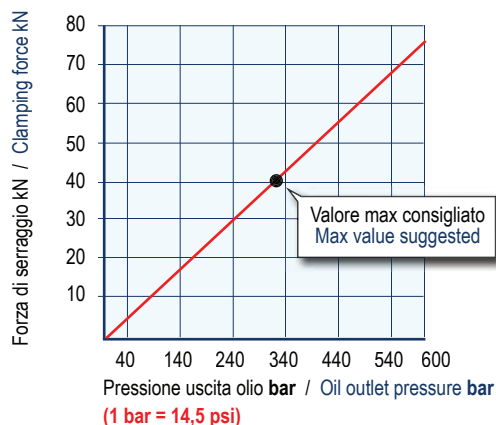
Pressione entrata aria bar / Air inlet pressure bar



Pressione uscita olio bar / Oil outlet pressure bar
(1 bar = 14,5 psi)



Con centralina elettroidraulica Art. 266 - 267 - 502 - 503
With motor driven hydraulic power unit Art. 266 - 267 - 502 - 503



Pressione uscita olio bar / Oil outlet pressure bar
(1 bar = 14,5 psi)

HYDRAULIC CLAMPING

THROUGH PNEUMO-HYDRAULIC AND HYDRAULIC CLAMPING DEVICES

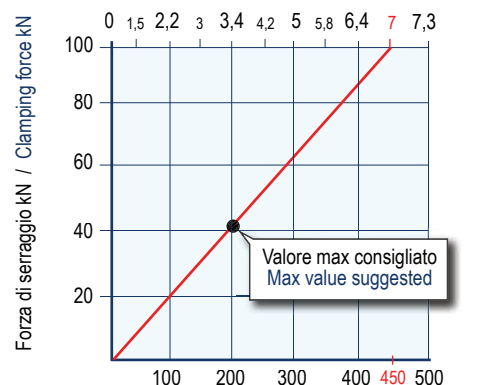
The following diagrams give the clamping force that can be obtained with each vise type (size 1 to 6) when equipped with hydraulic blocking devices, as a function of the fluid pressure (air or oil)

MORSE MODULARI TIPO 6 MODULAR VISES TYPE 6

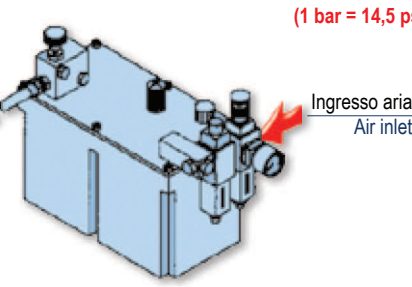
Cilindro idraulico Art. 285 - 568 - 569
Ø interno 50 mm - Superficie efficace 19,6 cm²
Hydraulic cylinder Art. 285 - 568 - 569
Cylinder I.D. 50 mm - Effective area 19.6 cm²

Con moltiplicatore di pressione Art. 393 (Tipo 450)
With pressure multiplier Art.393 (Type 450)

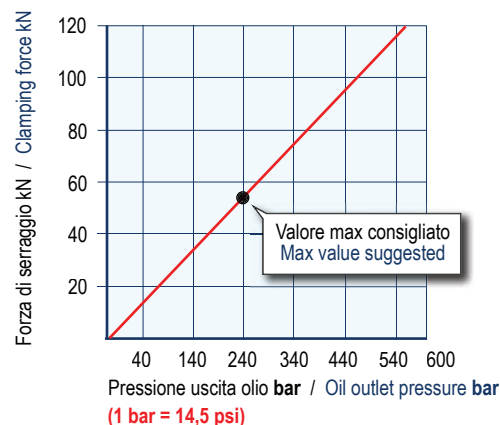
Pressione entrata aria bar / Air inlet pressure bar



Pressione uscita olio bar / Oil outlet pressure bar
(1 bar = 14,5 psi)



Con centralina elettroidraulica Art. 266 - 267 - 502 - 503
With motor driven hydraulic power unit Art. 266 - 267 - 502 - 503



Pressione uscita olio bar / Oil outlet pressure bar
(1 bar = 14,5 psi)

NB: Alcuni fattori, come la lubrificazione, lo staffaggio, gli attriti ed altro, possono modificare i valori indicati fino a $\pm 10\%$.
Per un corretto utilizzo non superare i valori indicati nel grafico

Some factor as lubrication, clamping on the machine table, frictions and more can modify above values within a $\pm 10\%$ range. For optimum operation do not exceed chart values.