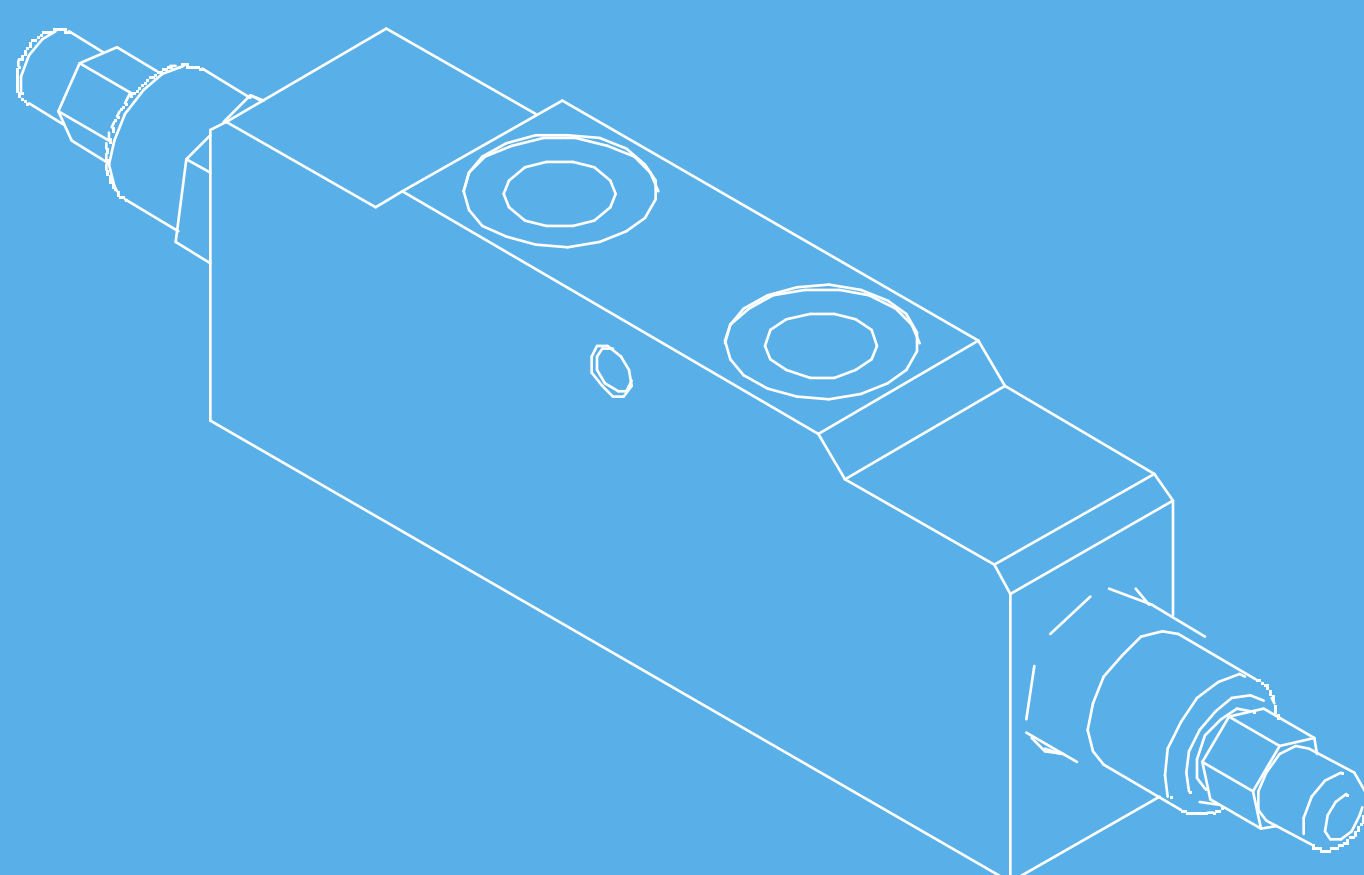
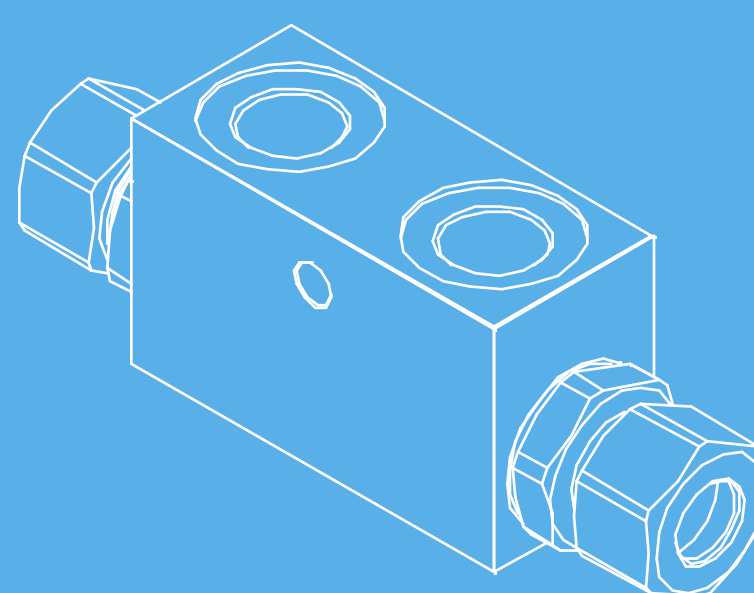
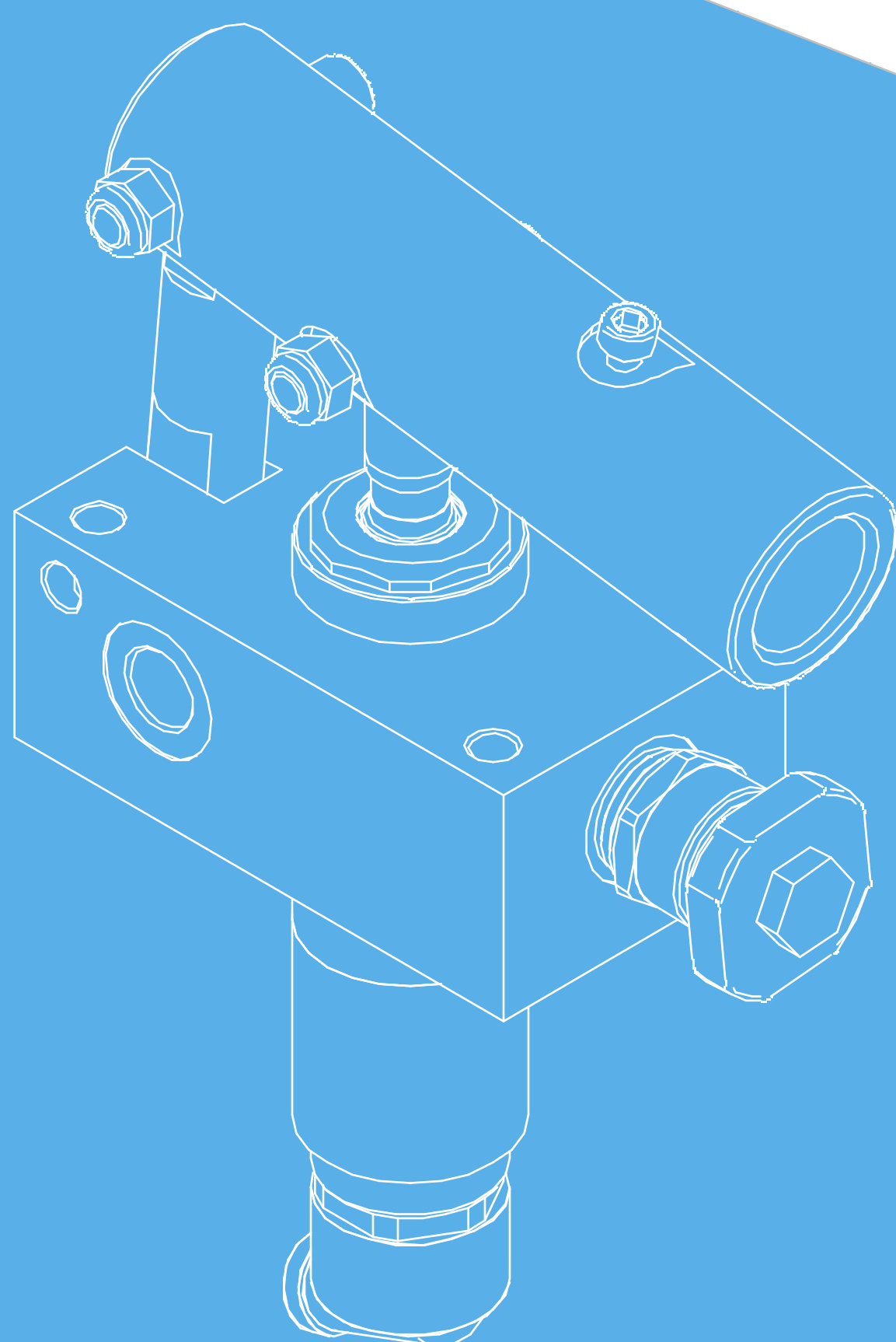




AISI316

Componenti oleodinamici - Hydraulic components



Ed. 2023

G.L. HYDRAULIC S.R.L. è una realtà produttiva all'avanguardia specializzata nella realizzazione di una vasta gamma di componenti oleodinamici che trovano applicazione nei più diversi settori industriali.

Gli elevati standard qualitativi del prodotto vengono scrupolosamente garantiti dall'impiego dei materiali migliori e dalla rigorosa attuazione di severe procedure di controllo. Grazie all'esperienza, alla profonda conoscenza del mercato e all'elevata competenza tecnica, G.L. HYDRAULIC S.R.L. è un punto di riferimento indispensabile per tutti coloro che cercano risposte puntuali e soluzioni concrete alle esigenze più diversificate. L'ottima assistenza pre e post vendita e la rapidità delle consegne assicurano servizi efficaci e tempestivi, frutto di una gestione aziendale dinamica e flessibile che è sinonimo di competenza e professionalità.

G.L. HYDRAULIC S.R.L. is a leading-edge manufacturer who specializes in producing a wide range of hydraulic components for application in a variety of industrial sectors. The exceptional product quality standards are carefully guaranteed through the use of very best materials and the implementation of extremely tough quality-control procedures. Thanks to its experience, extensive knowledge of the market and outstanding technical skills, G.L. HYDRAULIC S.R.L. is an indispensable port of call for those seeking prompt, concrete solutions for every type of requirement, no matter how difficult it might seem. Excellent pre and after assistance, together with fast delivery, ensure a highly efficient customer service arising from the flexible, dynamic company management synonymous with skill and professionalism

CATALOGO TECNICO *TECHNICAL CATALOGUE*

AISI316

Componenti oleodinamici
Hydraulic components

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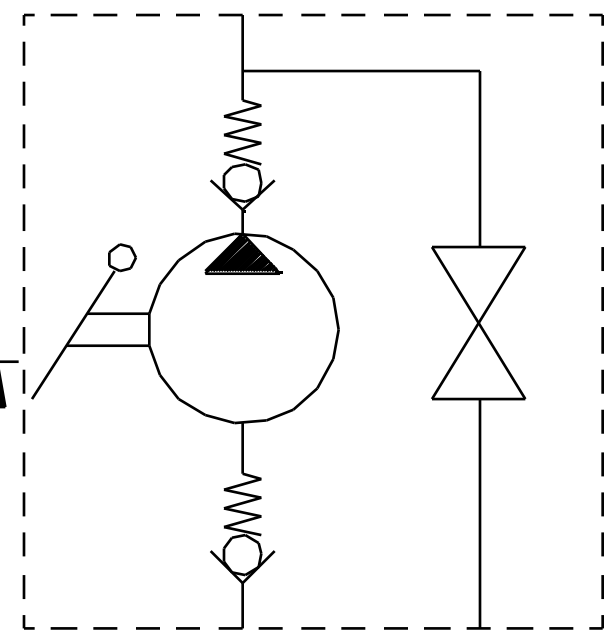
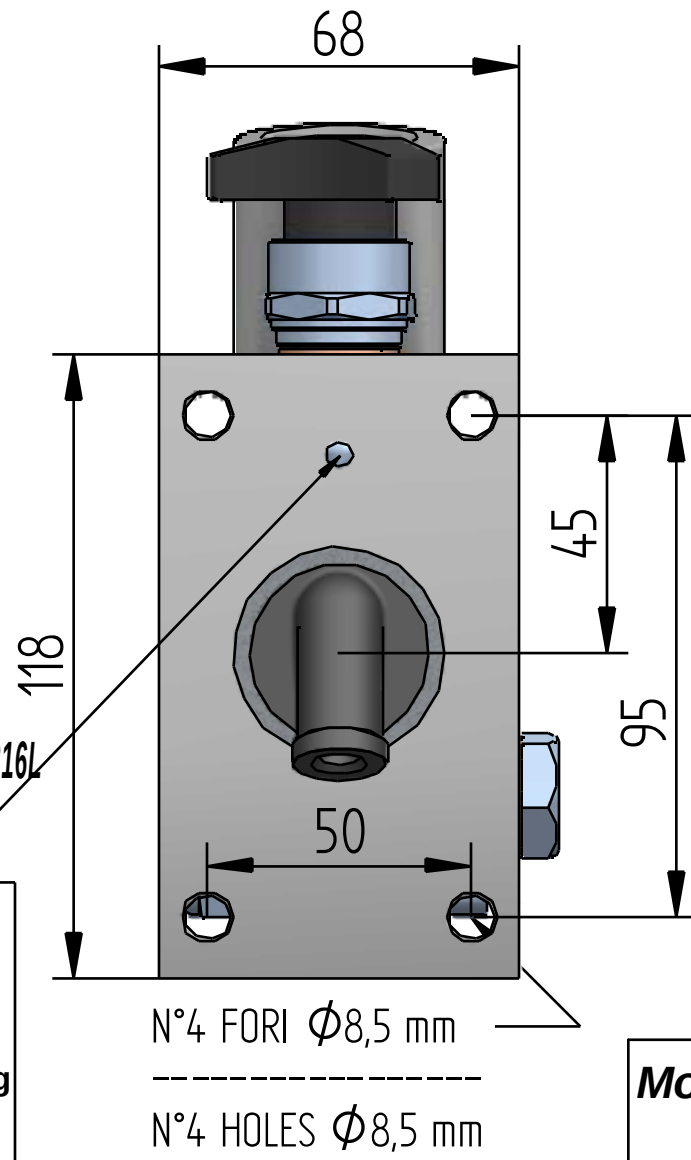
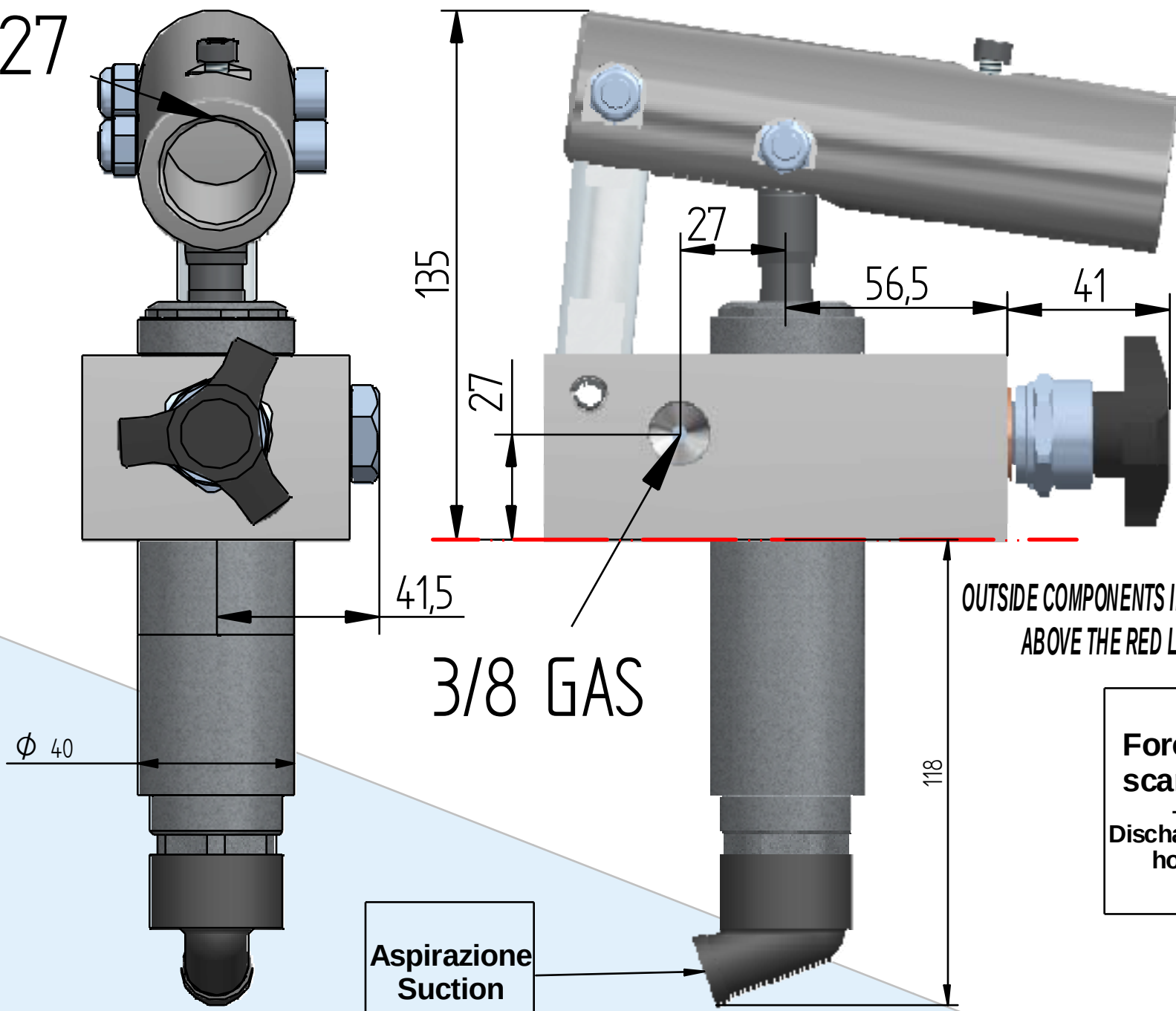
AI316HPT

Stainless steel 316

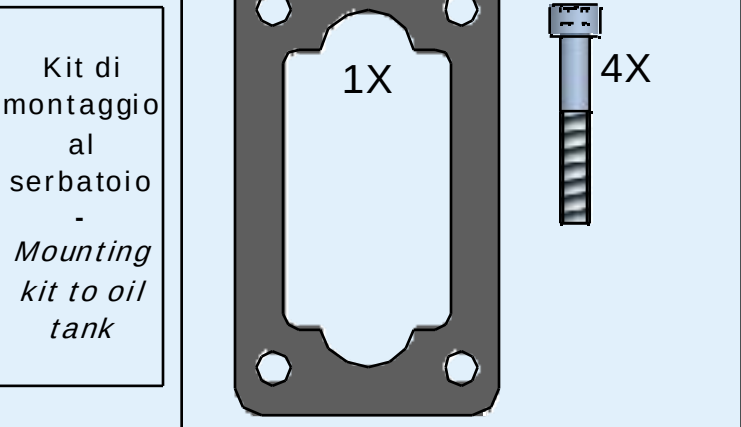
Funzionamento a doppio effetto per cilindro a semplice effetto
Double-stroke for a single acting cylinder



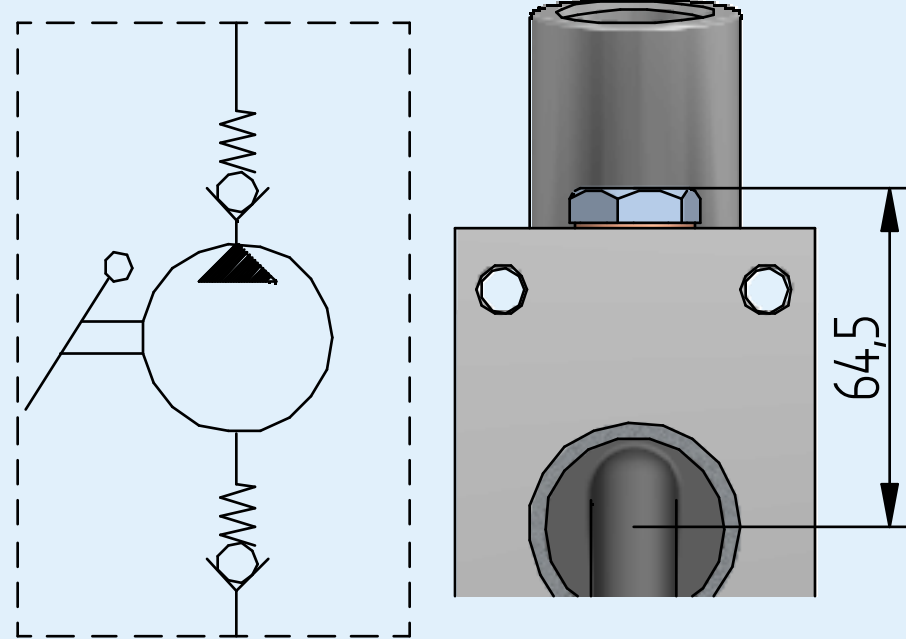
Ø27



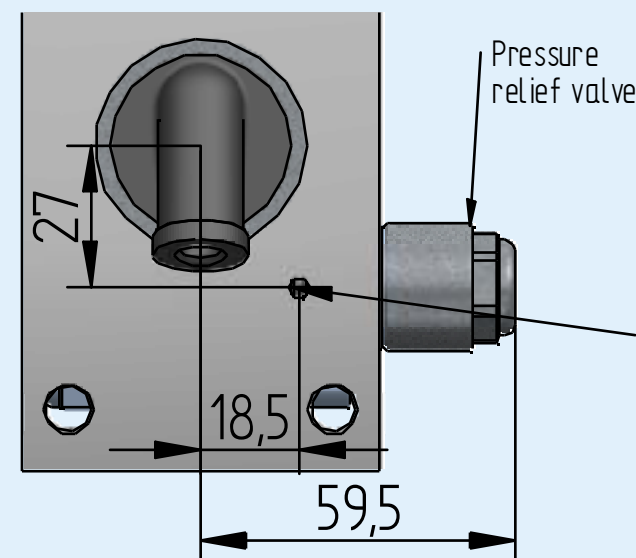
Montaggio: Qualsiasi posizione
Mounting: Any position



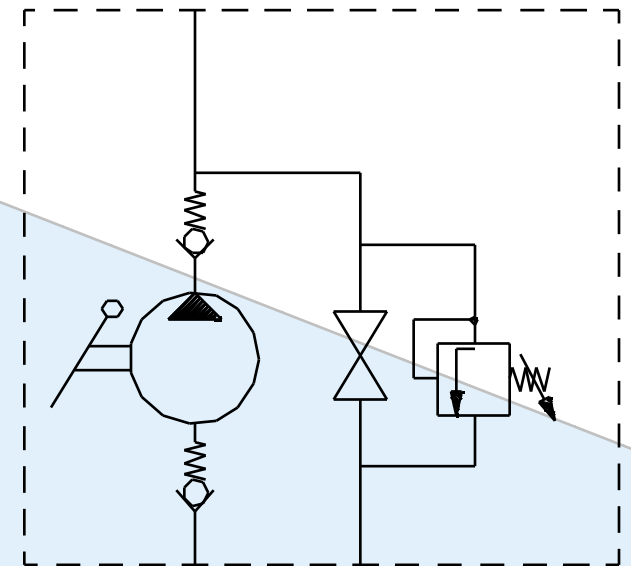
Version E



Taratura valvola di massima pressione
- Relief valve setting min - max (bar)
30 - 400
Comunque non oltre la pressione massima della pompa
- However not over the pump's max pressure.



Version V



Codice di ordinazione / Ordering code

AI316HPT

Option 1	12	Option 2		Option 3		Option 4	
	12						
	25	E		V		S	
	45						

Option 1

6	6,0 CC Hand pump
12	12,5 CC Hand pump
25	19,4 CC Hand pump
45	28,0 CC Hand pump

Option 2

	With release handknob
E	Without release handknob

Option 3

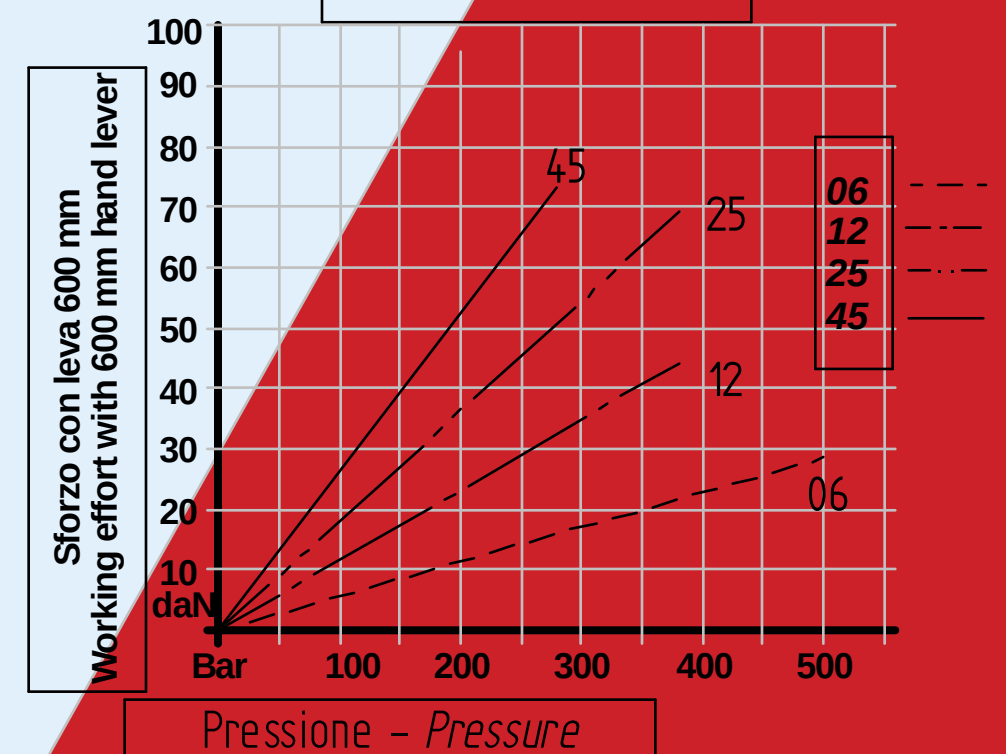
	Without pressure relief valve
V	With pressure relief valve

Option 4

	Without bellows
S	With bellows

Line	Cilindrata Flow (cc)	Pressione massima Max pressure (bar)	Peso Weight (Kg)
6	6	400	4,3
12	12,5	320	4,3
25	19,4	300	4,3
45	28	250	4,3

Diagramma prove di carico
Load curve



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AI316HPT W

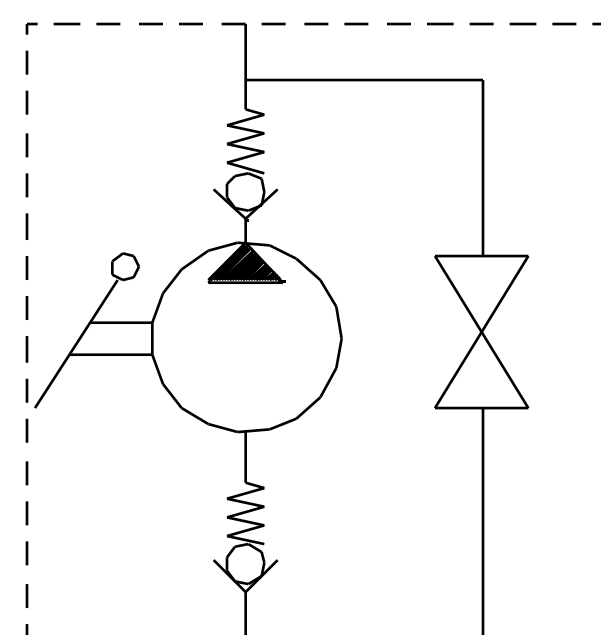
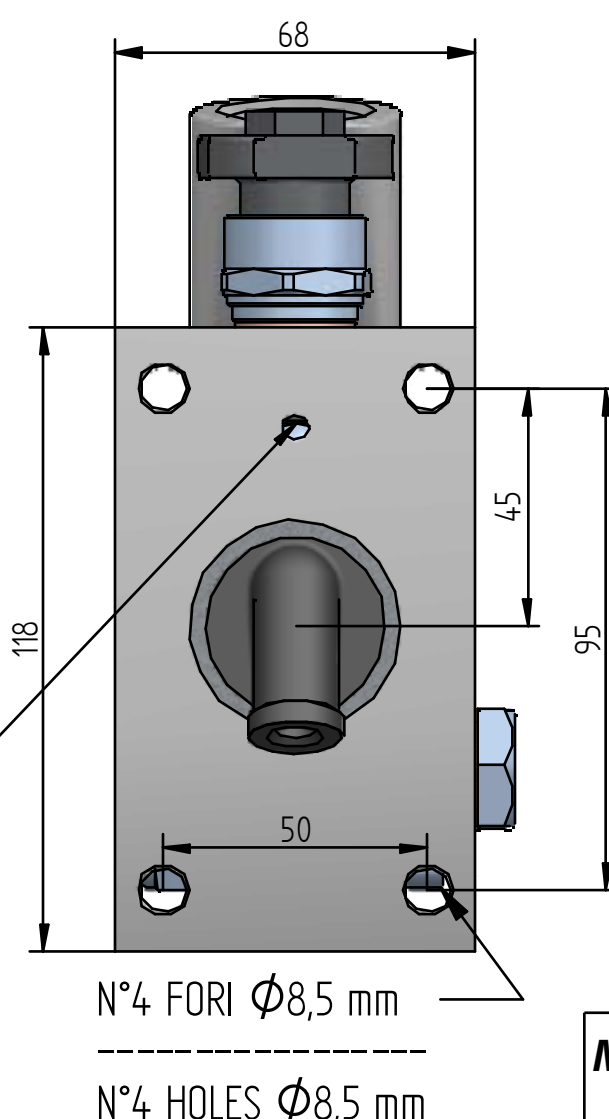
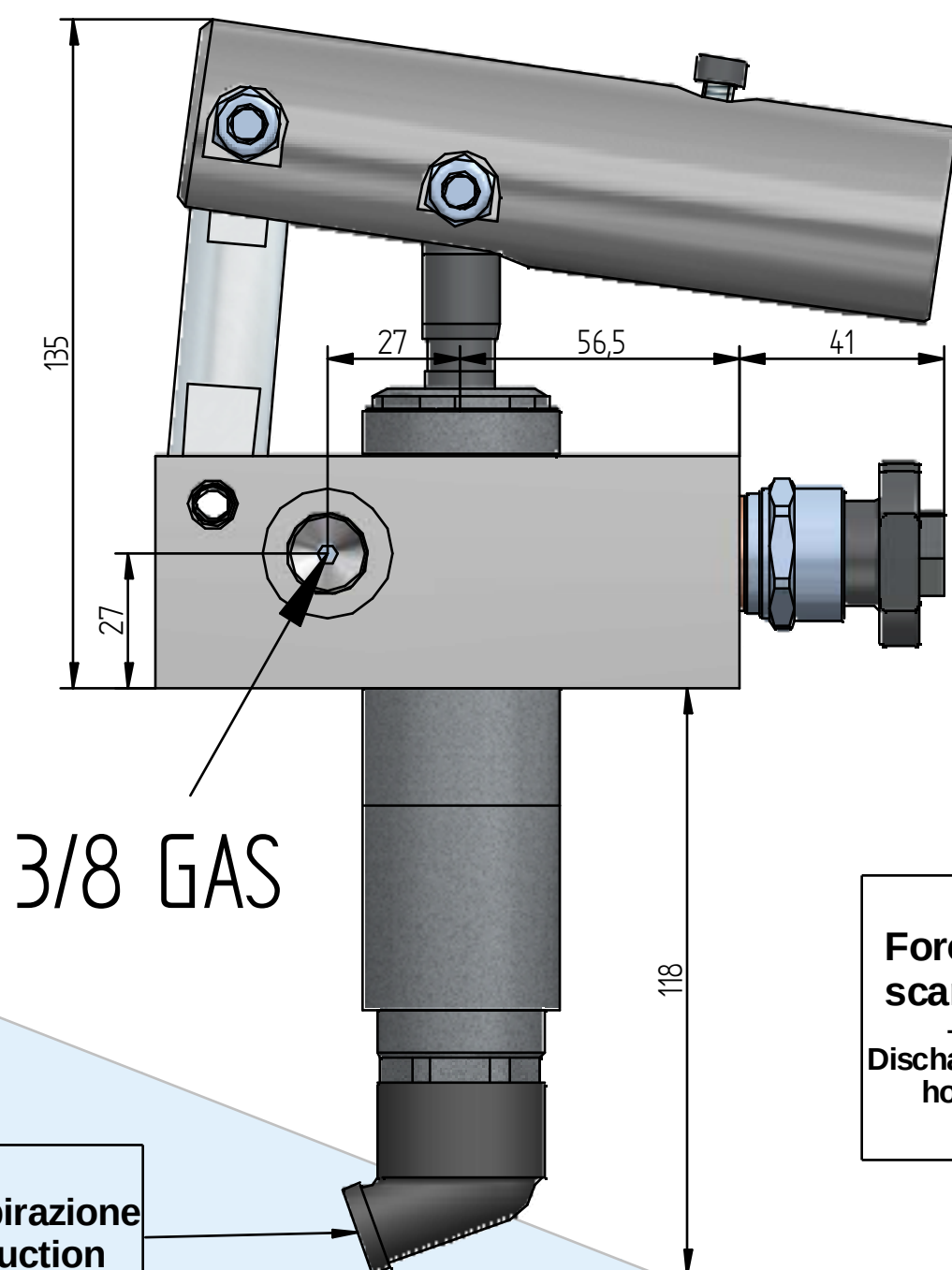
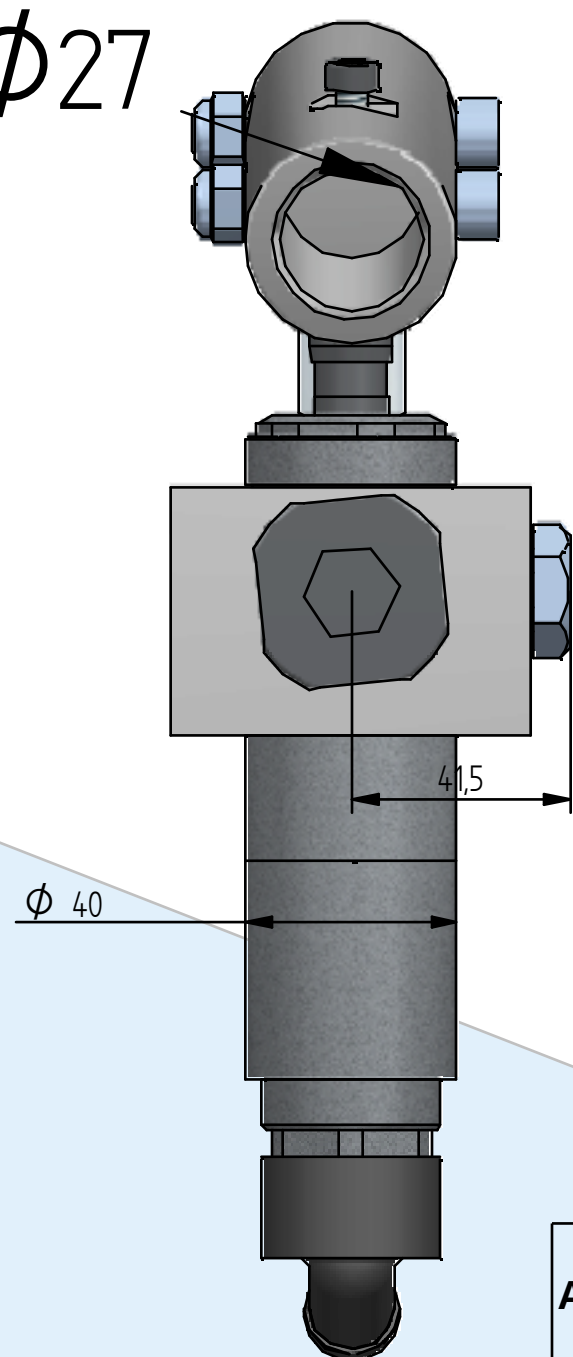
Stainless steel 316

Funzionamento a doppio effetto per cilindro a semplice effetto

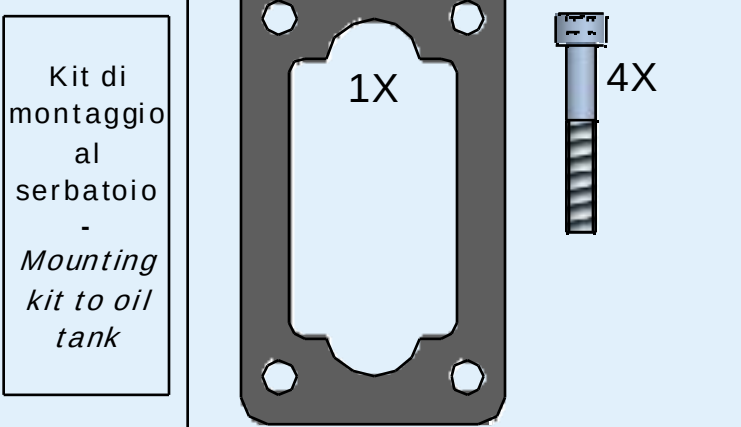
Double-stroke for a single acting cylinder



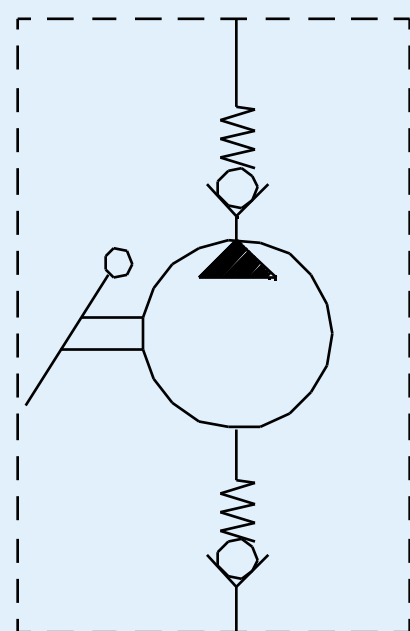
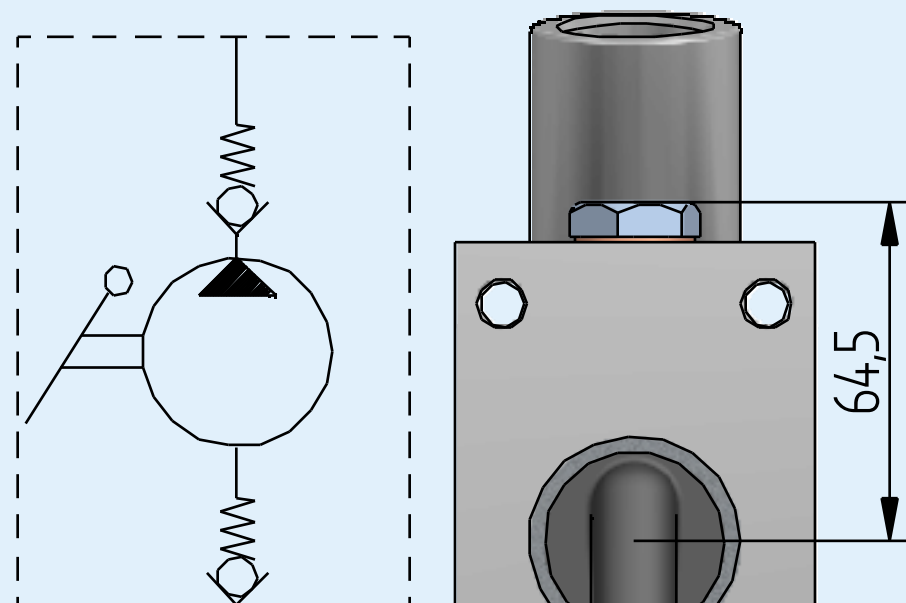
Ø27



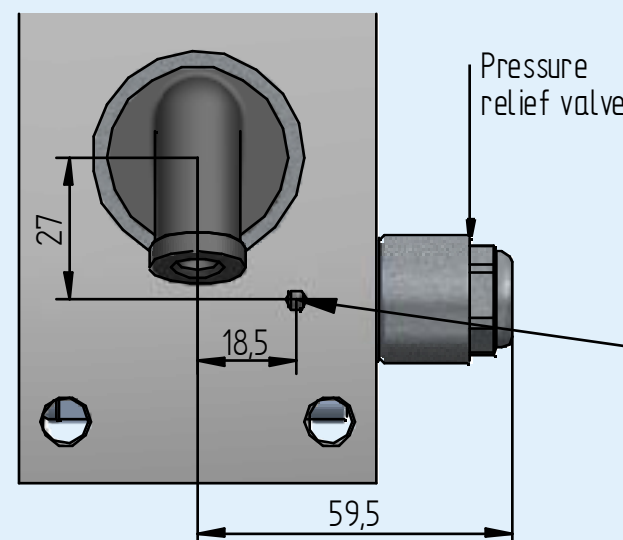
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Mounting: Any position



Version E

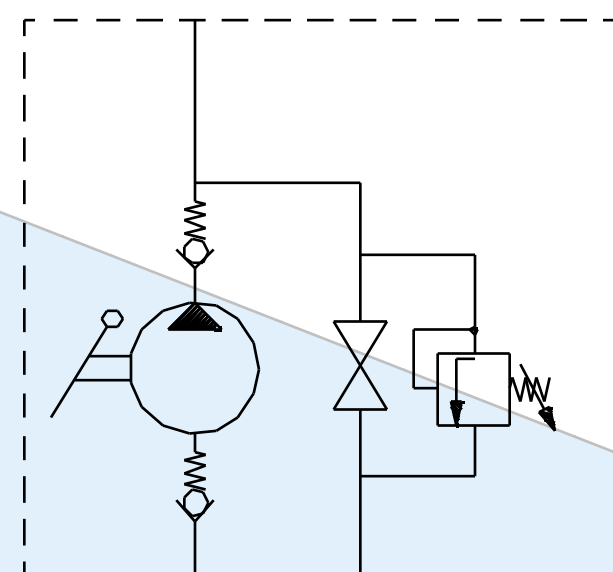


Taratura valvola di massima pressione
-
Relief valve setting
min - max
(bar)
30 - 400
Comunque non oltre la pressione massima della pompa
-
However not over the pump's max pressure.



Pressure relief valve
Pressure relief valve discharging hole

Version V



Codice di ordinazione / Ordering code

AI316HPT

Option 1
12
12
25
45

Option 2
E

Option 3
V

Option 4
S

-W

Option 1

6	6,0 CC Hand pump
12	12,5 CC Hand pump
25	19,4 CC Hand pump
45	28,0 CC Hand pump

Option 2

	With release handknob
E	Without release handknob

Option 3

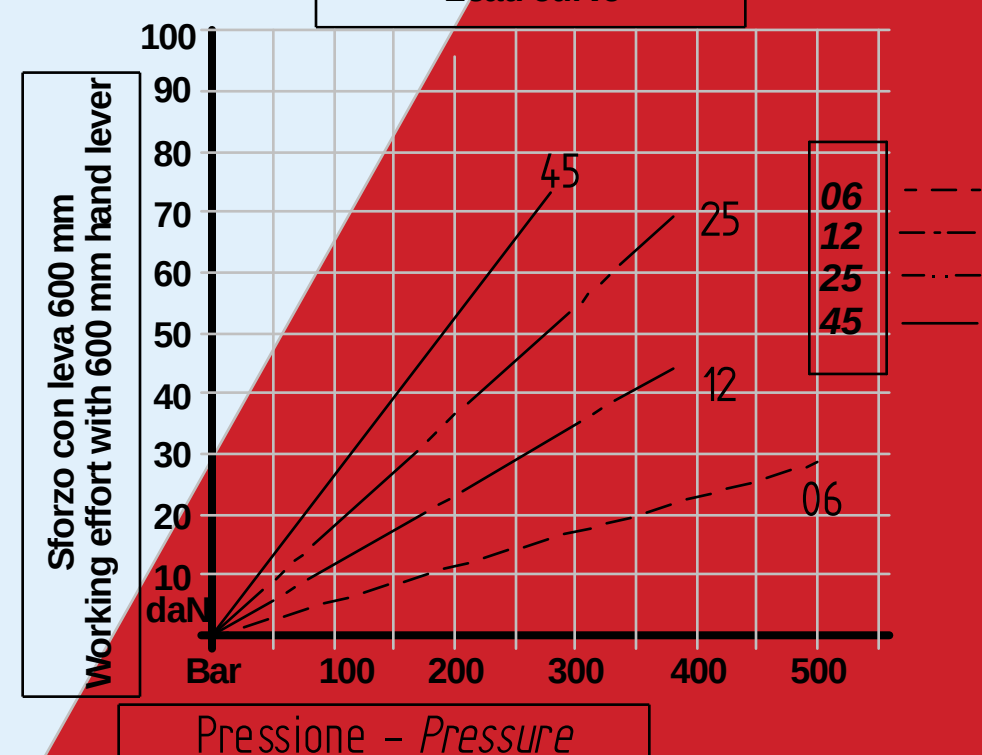
	Without pressure relief valve
V	With pressure relief valve

Option 4

	Without bellows
S	With bellows

Line	Cilindrata Flow (cc)	Pressione massima Max pressure (bar)	Peso Weight (Kg)
6	6	400	4,3
12	12,5	320	4,3
25	19,4	300	4,3
45	28	250	4,3

Diagramma prove di carico
Load curve



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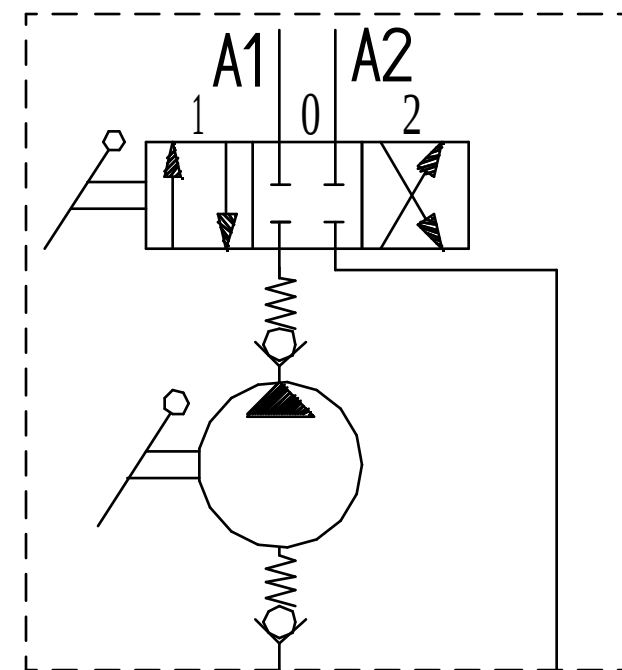
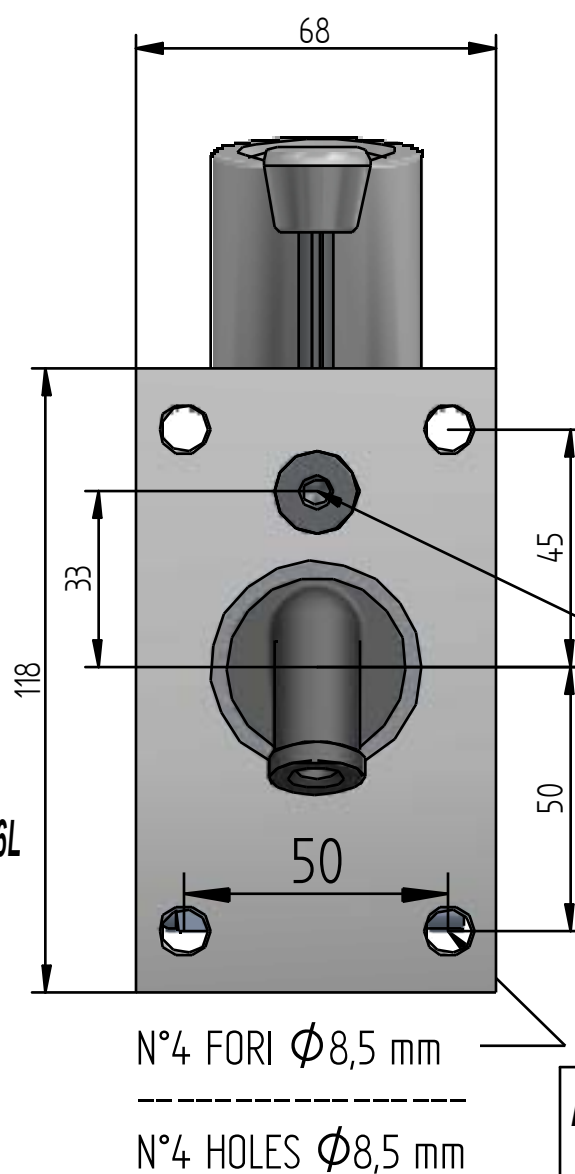
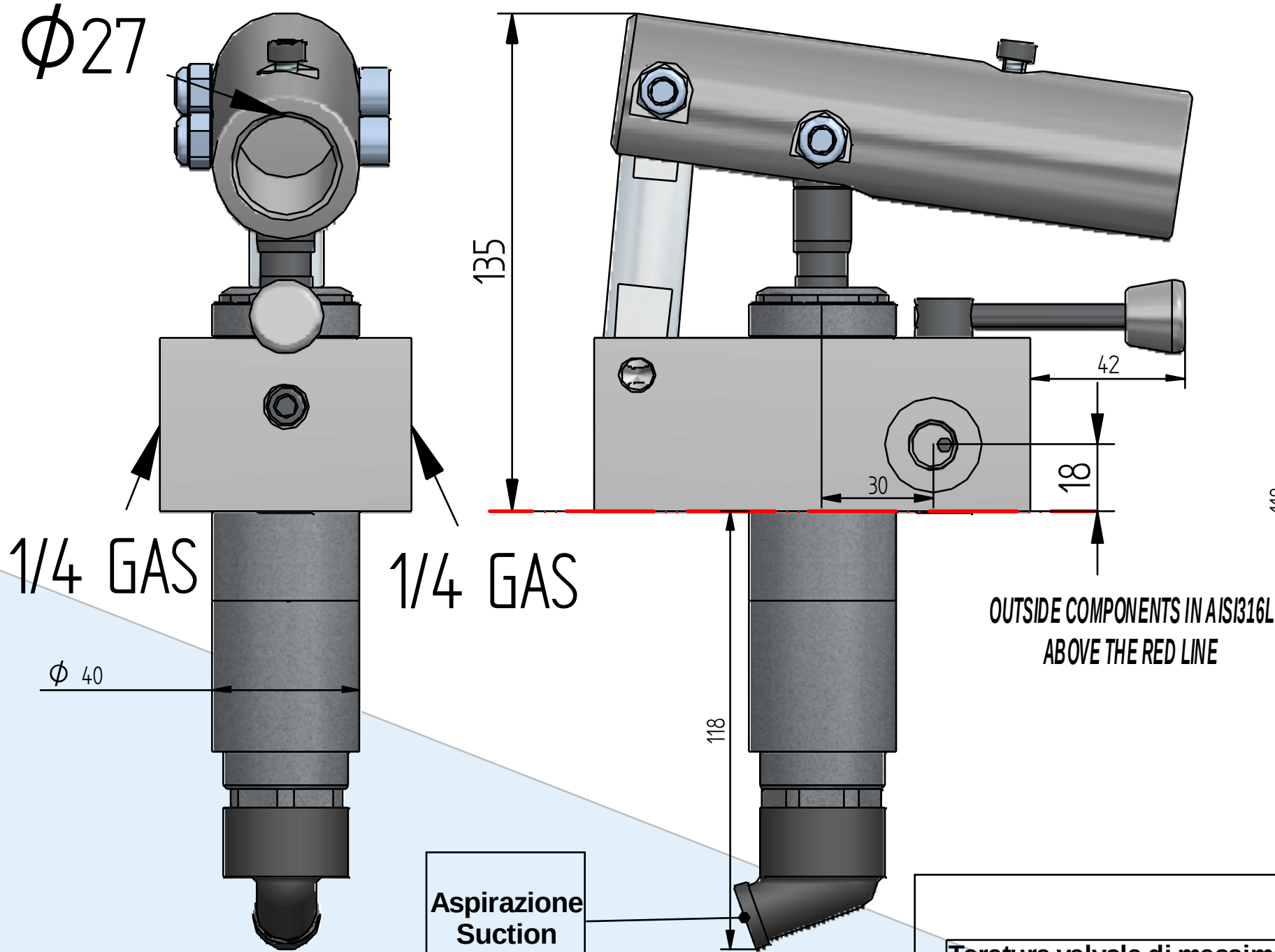
AI316HPTD

Stainless steel 316

Funzionamento a doppio effetto per cilindro a doppio effetto
Double-stroke for a double acting cylinder

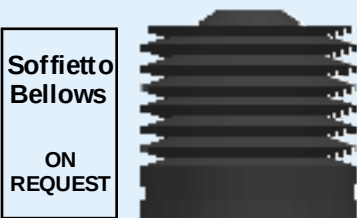


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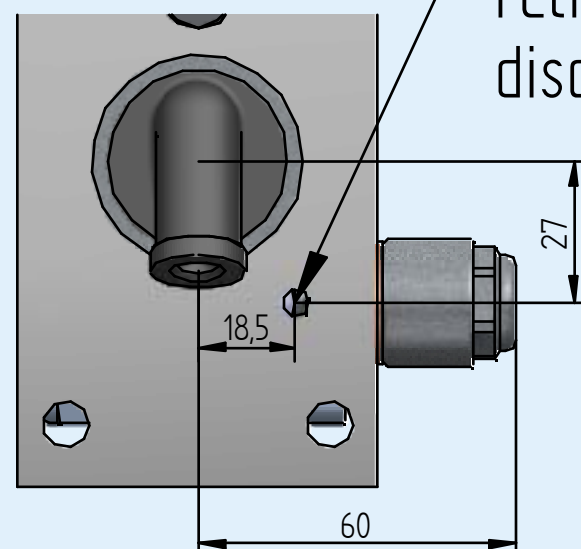


Foro di scarico
Discharging hole

Montaggio: Qualsiasi posizione
Mounting: Any position



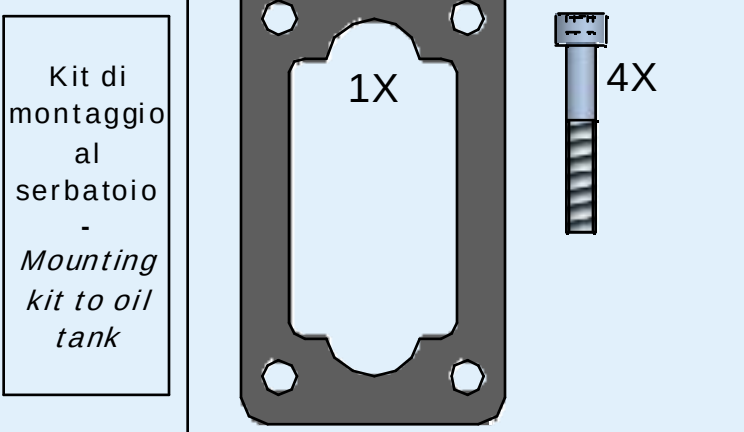
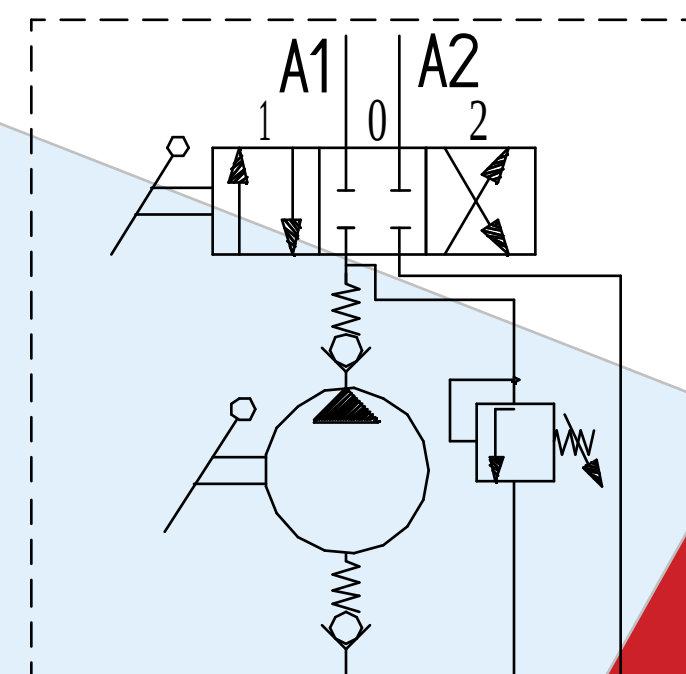
Taratura valvola di massima pressione
-
Relief valve setting
min - max
(bar)
30 - 320
Comunque non oltre la pressione massima della pompa
-
However not over the pump's max pressure.



Pressure relief valve
discharging hole

Pressure relief valve

Version V



Codice di ordinazione / Ordering code

AI316HPTD

Option 1	12
	12
	25
	45

DCC

Option 2	VOUT	Option 3	S
----------	------	----------	---

Option 1

6	6,0 CC Hand pump
12	12,5 CC Hand pump
25	19,4 CC Hand pump
45	28,0 CC Hand pump

Option 2

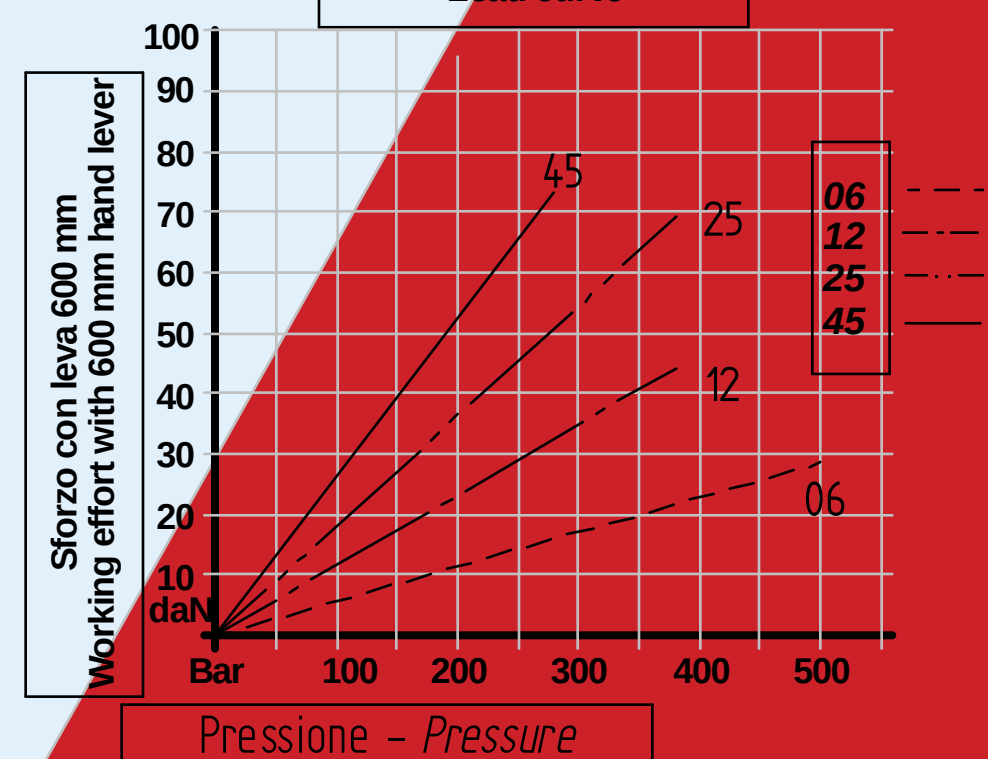
	Without pressure relief valve
VOUT	With pressure relief valve

Option 3

	Without bellows
S	With bellows

Line	Cilindrata Flow (cc)	Pressione massima Max pressure (bar)	Peso Weight (Kg)
6	6	200	4,3
12	12,5	200	4,3
25	19,4	200	4,3
45	28	200	4,3

Diagramma prove di carico
Load curve



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Pag. 7

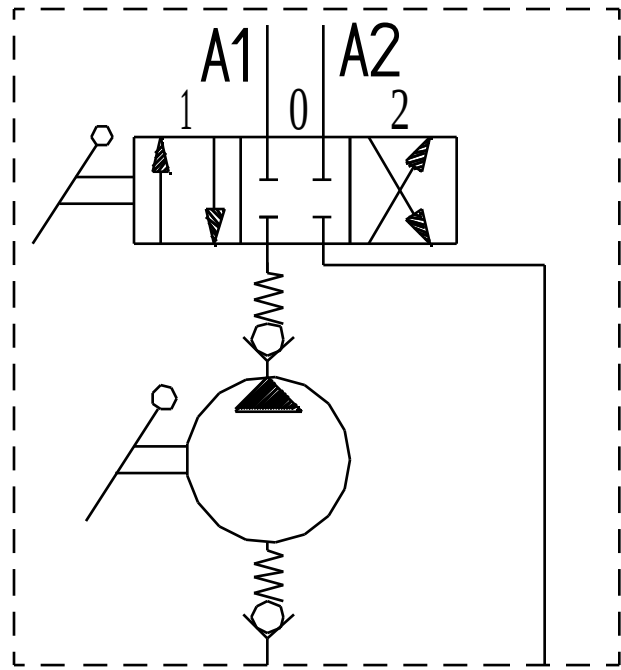
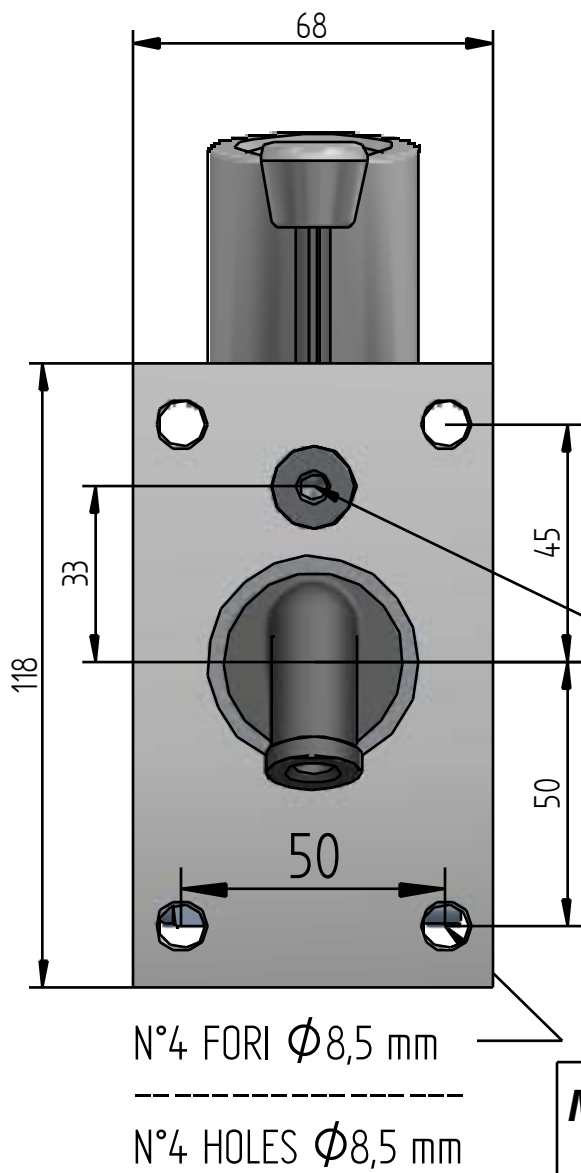
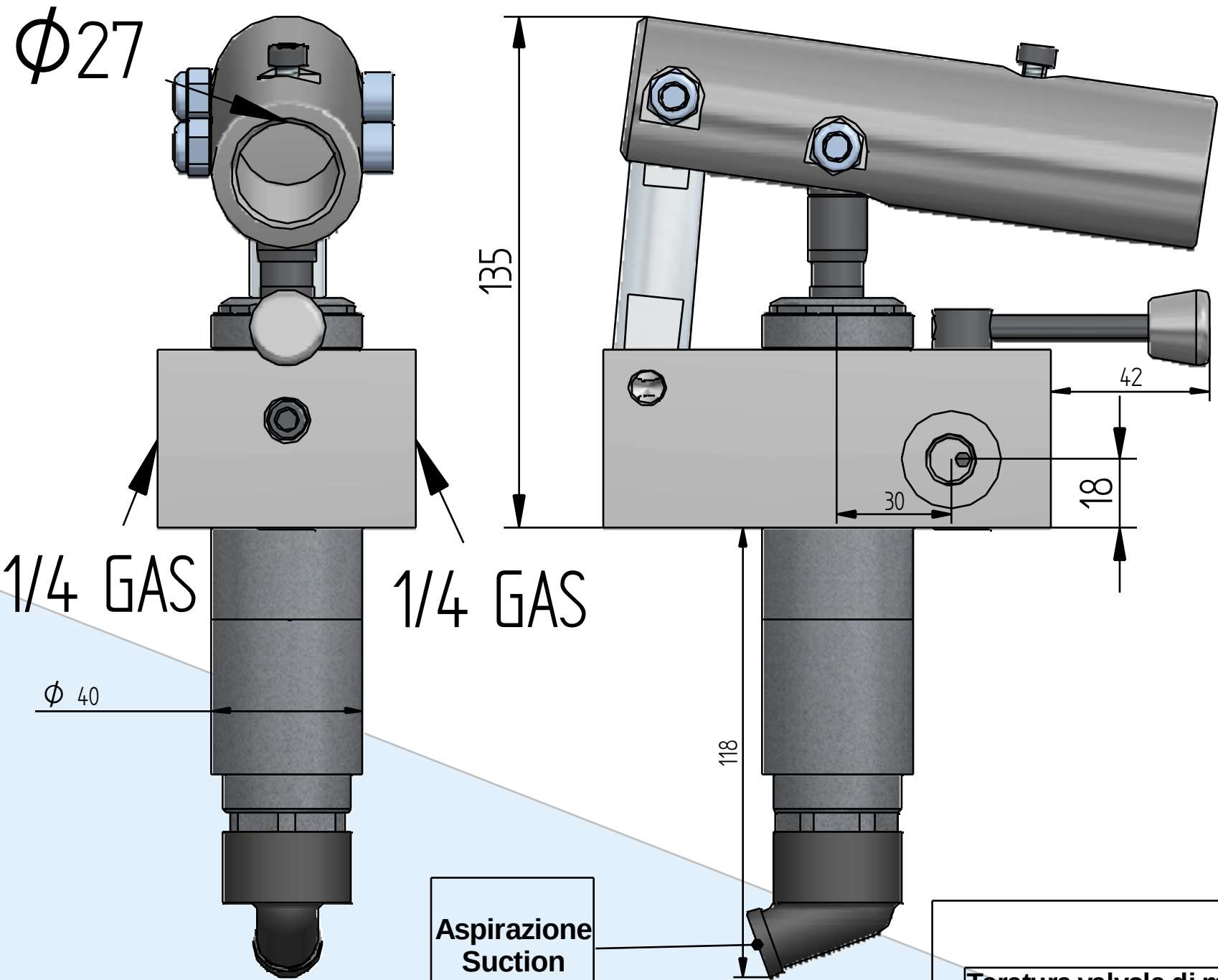
AI316HPTD W

Stainless steel 316

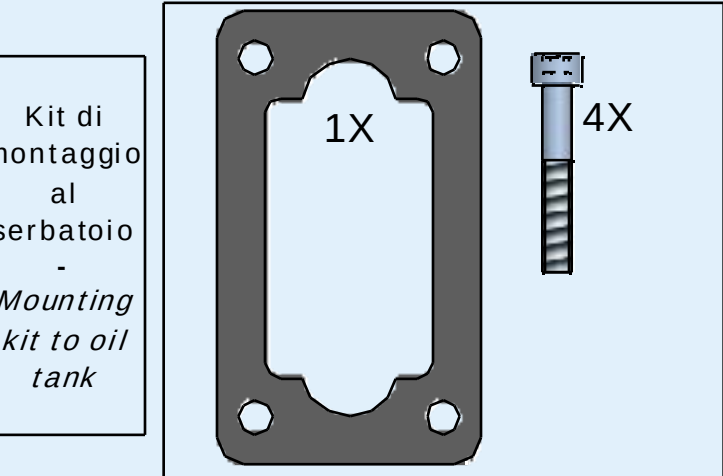
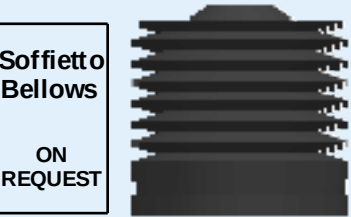
Funzionamento a doppio effetto per cilindro a doppio effetto
Double-stroke for a double acting cylinder



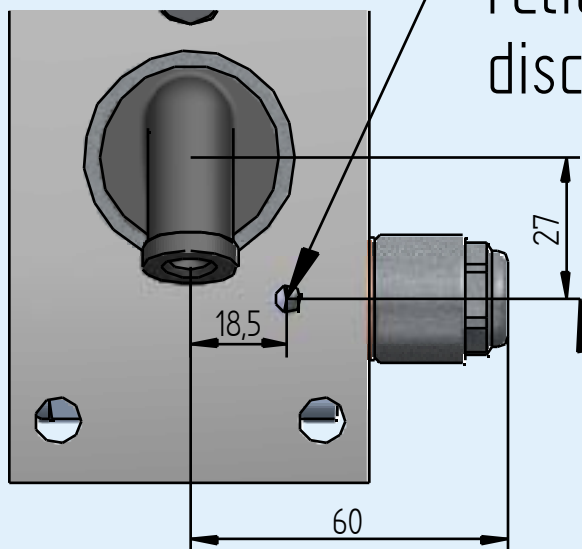
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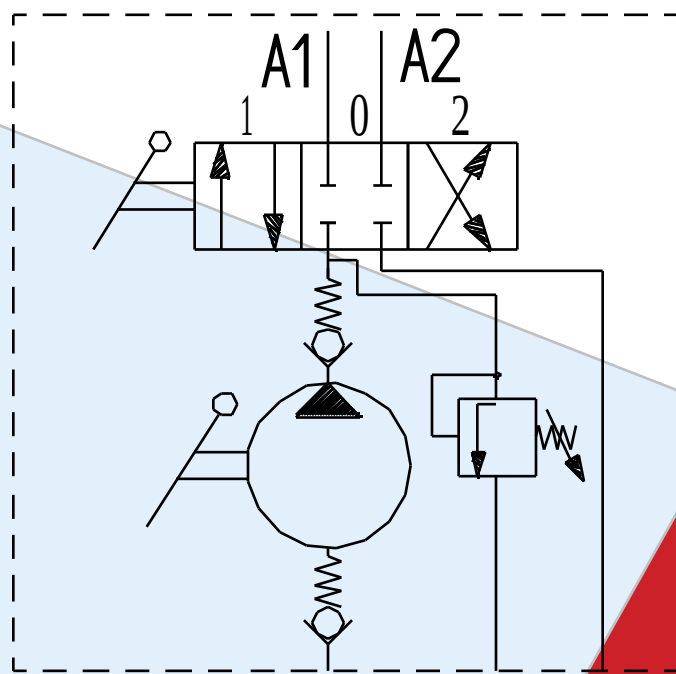
Montaggio: Qualsiasi posizione
Mounting: Any position



Taratura valvola di massima pressione
-
Relief valve setting
min - max
(bar)
30 - 320
Comunque non oltre la pressione massima della pompa
-
However not over the pump's max pressure.



Version V



Codice di ordinazione / Ordering code

AI316HPTD Option 1 12 12 25 45 DCC Option 2 VOUT Option 3 S -W

Option 1

6	6,0 CC Hand pump
12	12,5 CC Hand pump
25	19,4 CC Hand pump
45	28,0 CC Hand pump

Option 2

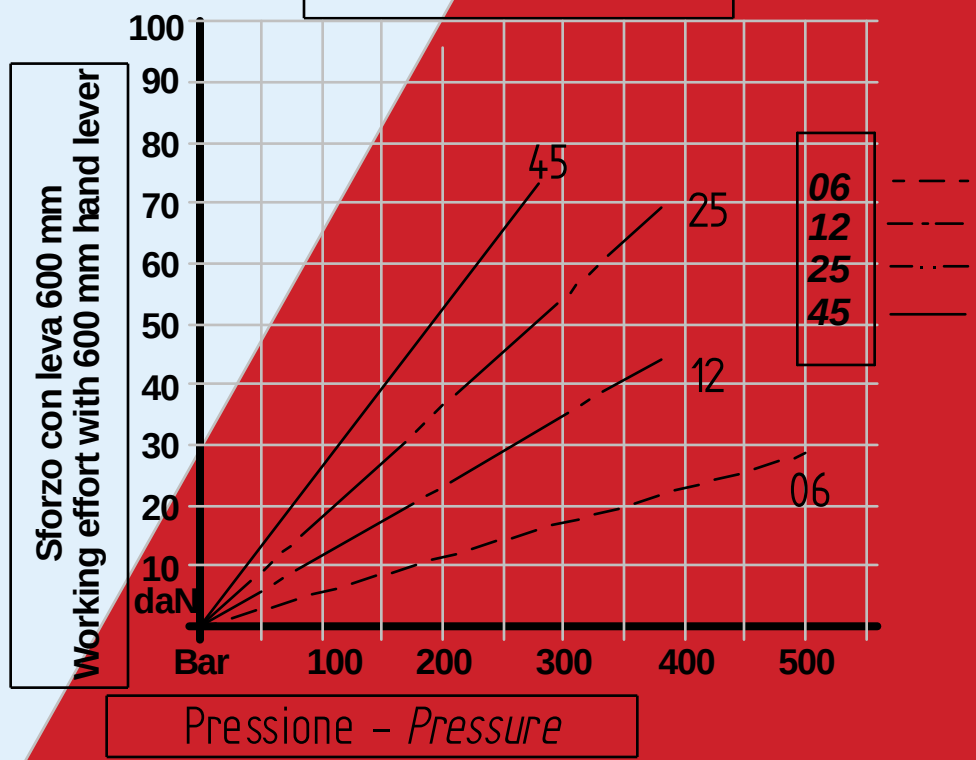
	Without pressure relief valve
VOUT	With pressure relief valve

Option 3

	Without bellows
S	With bellows

Line	Cilindrata Flow (cc)	Pressione massima Max pressure (bar)	Peso Weight (Kg)
6	6	200	4,3
12	12,5	200	4,3
25	19,4	200	4,3
45	28	200	4,3

Diagramma prove di carico
Load curve

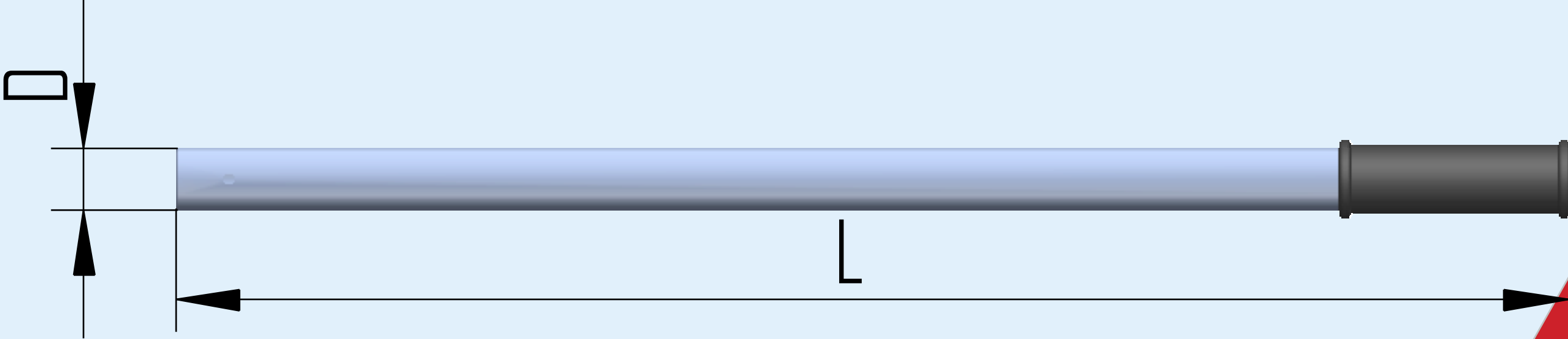
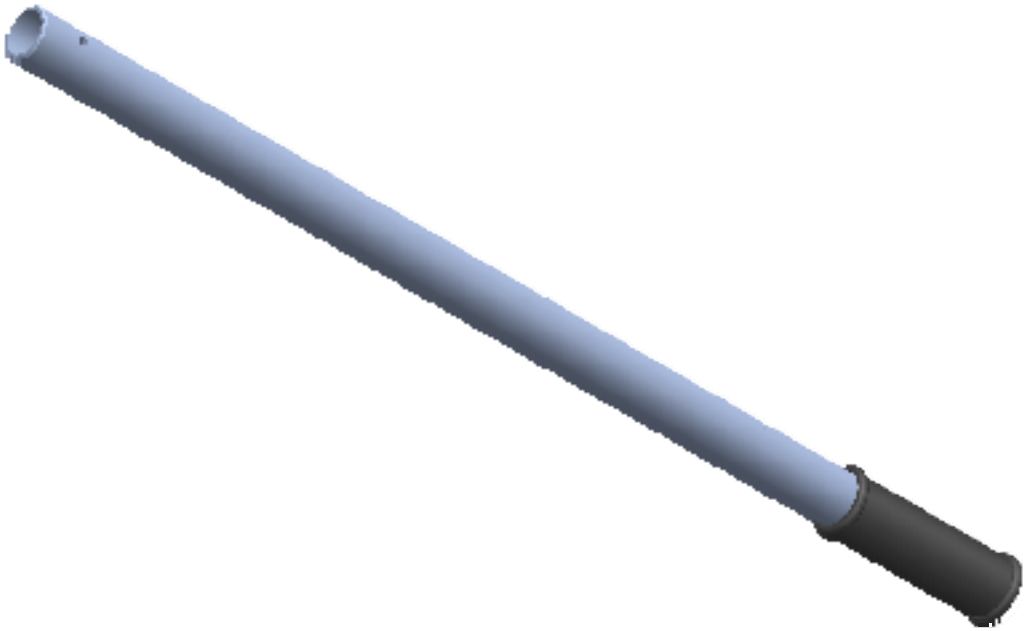


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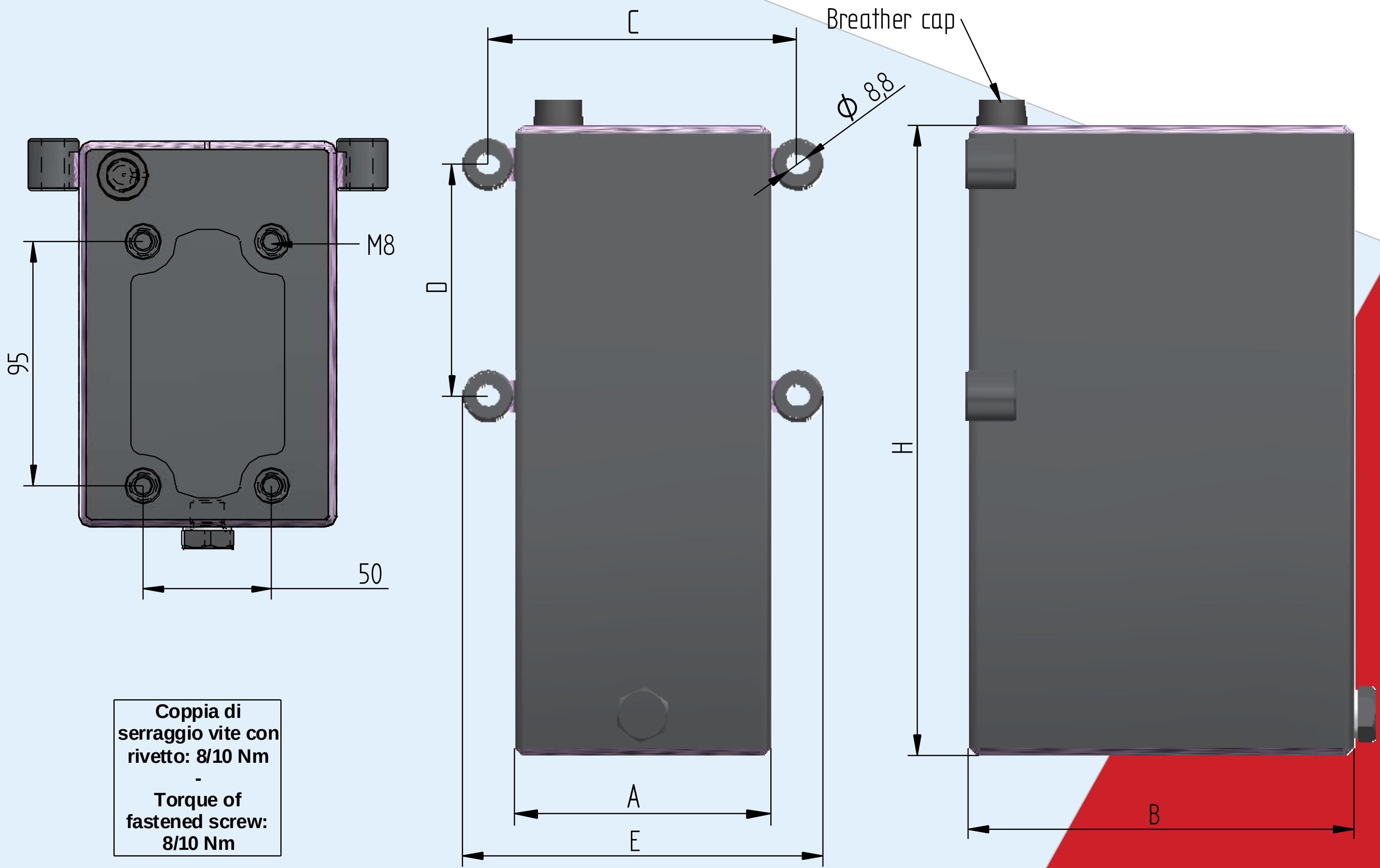
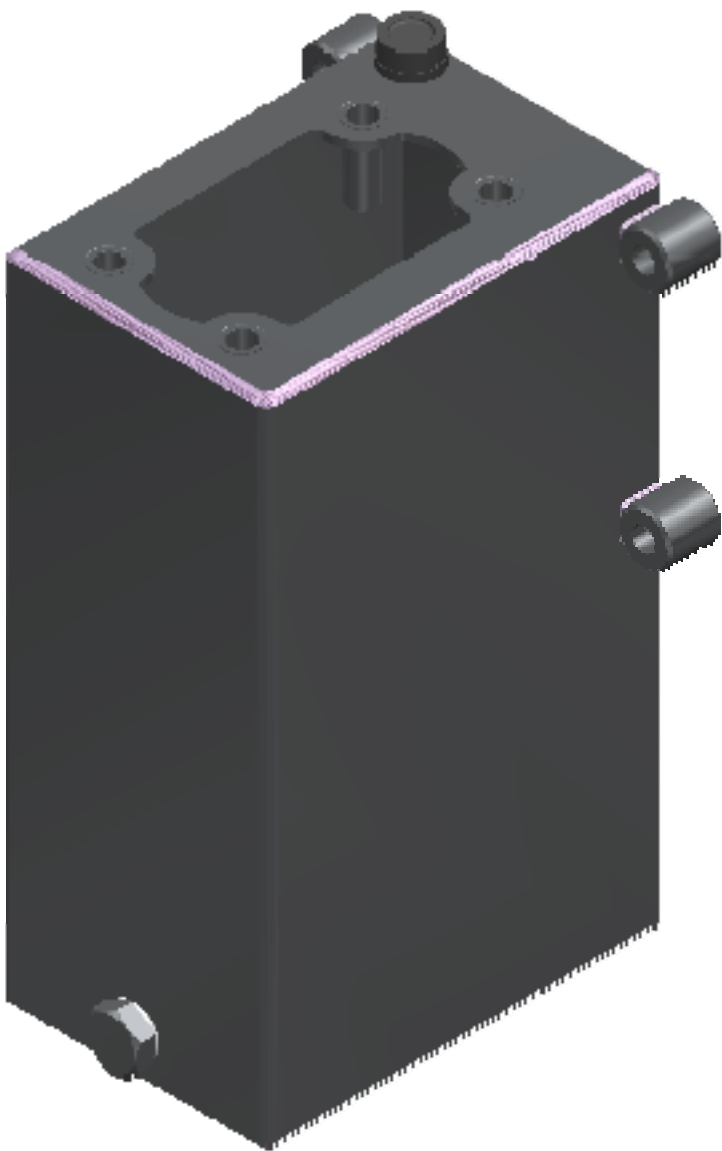
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Codice / Code	AI316LV27X600	AI316LV27X400	AI316LV27X1000
Manopola in gomma - Plastic hand grip	X	X	X
Acciaio AISI316 - Stainless steel 316	X	X	X
Diametro esterno - Outside diameter D(mm)	27	27	27
L (mm)	600	400	1000
Peso - Weight (Kg)	0,9	0,6	1,5



Codice / Code	AI316SR 01	AI316SR 02	AI316SR 03	AI316SR 05
Capacità - Tank capacity (litres)	1	2	3	5
Tappo sfiato - Breather cap	x	x	x	x
A (mm)	100	100	100	175
B (mm)	150	150	150	170
C (mm)	120	120	120	195
D (mm)	90	90	90	90
E (mm)	140	140	140	215
H (mm)	120	180	245	200
Peso - Weight (Kg)	2	2,2	2,5	4,5



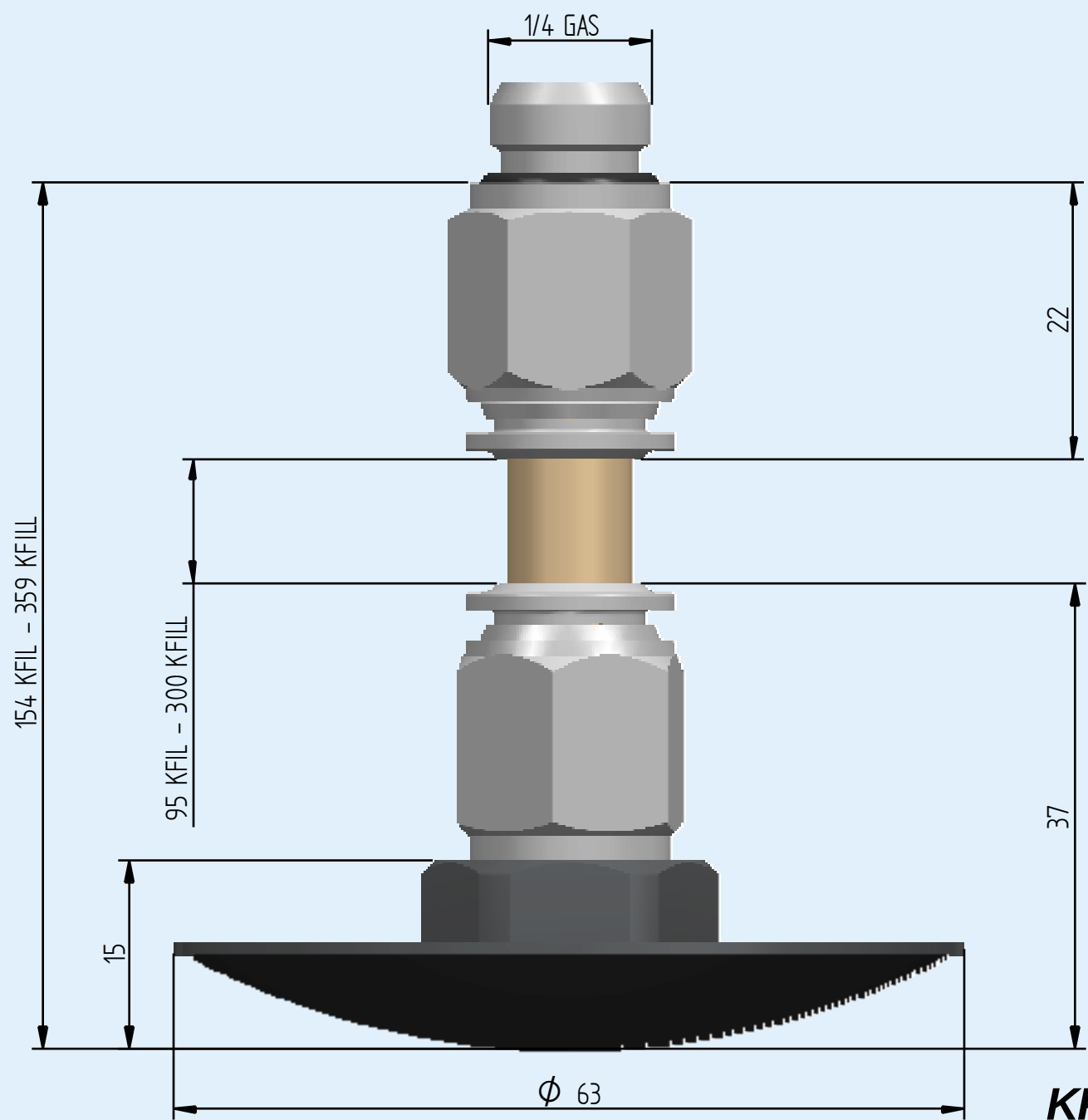
KFIL KRAC

Kit filtro aspirazione
Suction kit

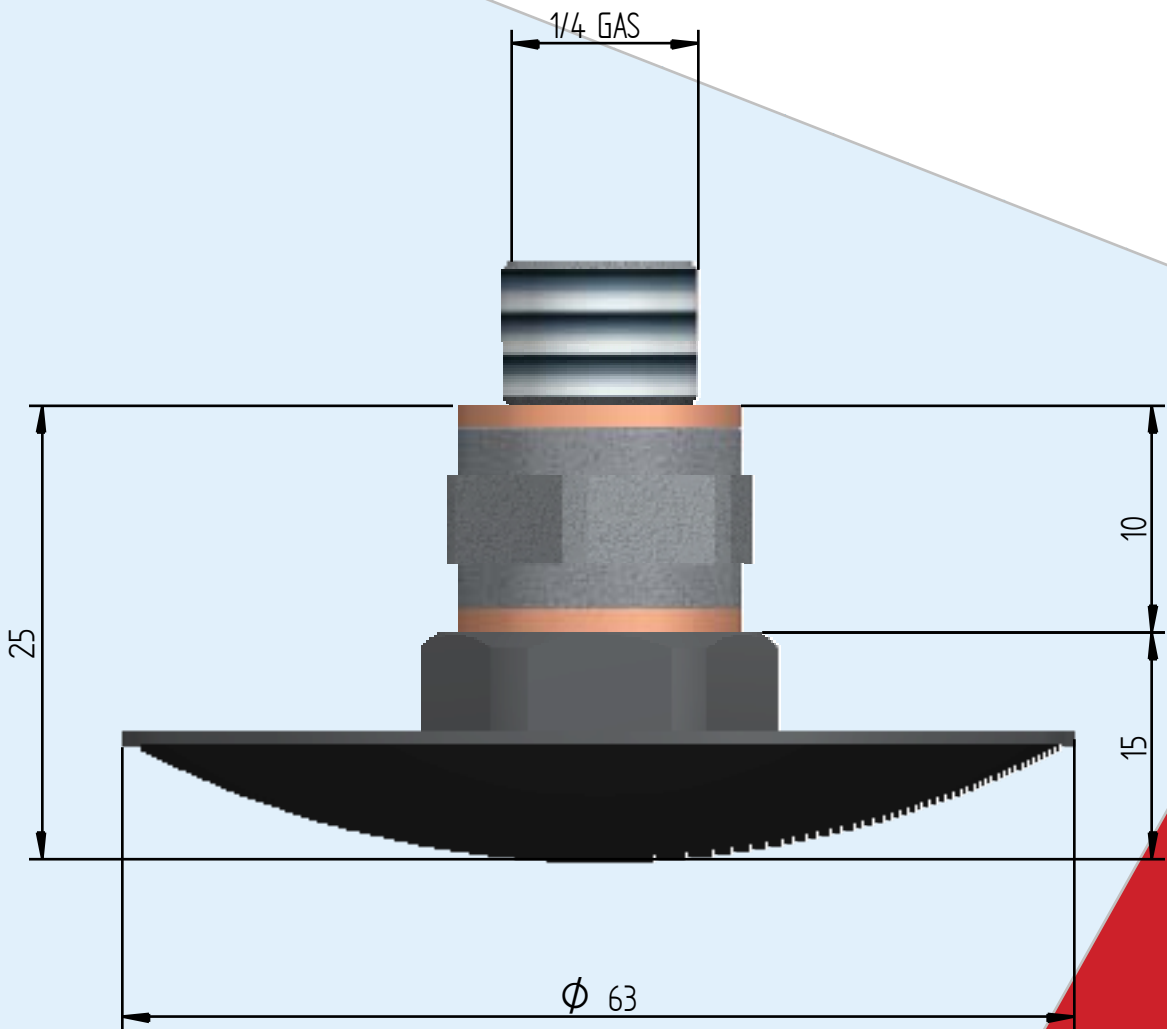


Codice / Code	KFIL	KFILS	KFILL	KRAC
Filtro / Filter (Micron)	90	90	90	520
Superficie filtrante / Filtering surface (mm2)	3000	3000	3000	415
Portata / Flow (Lt/Min)	7	7	7	2,5
Oil tank with measure H (mm) equal or less than 145 mm	NO	OK	NO	OK
Oil tank with measure H (mm) between 146 mm and 249 mm	OK	NO	NO	OK
Oil tank with measure H (mm) equal or more than 250 mm	NO	NO	OK	OK
Mounted with KCHP on oil tank	OK	NO	OK	OK

KFIL ~ KFILL

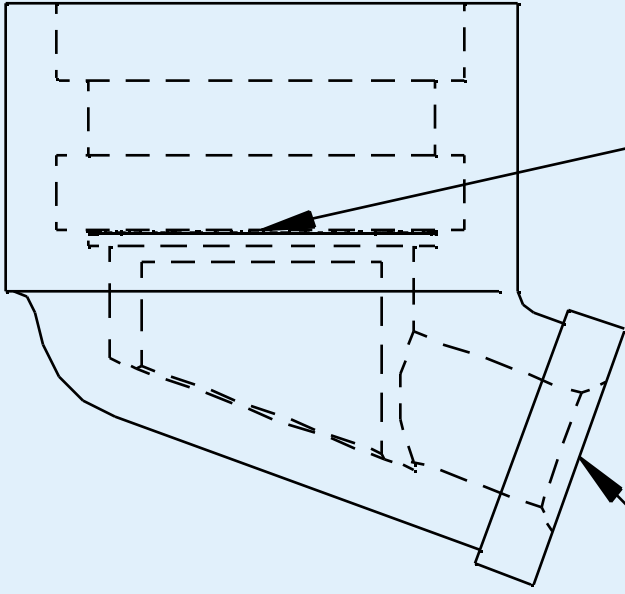
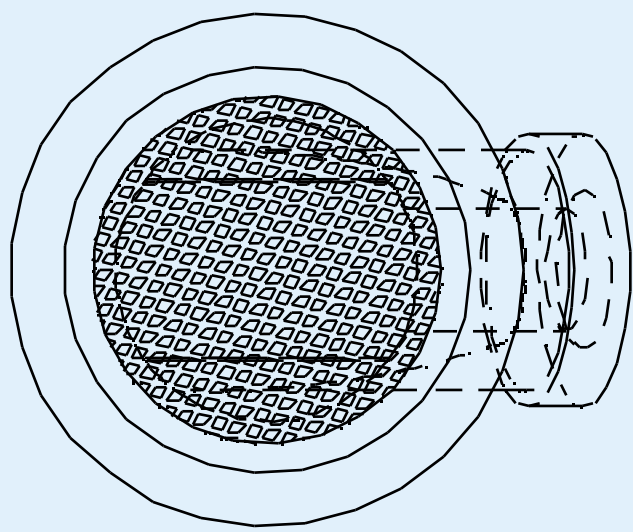


KFILS



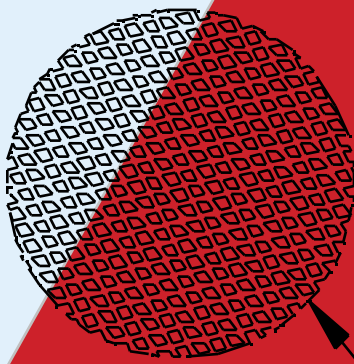
KFIL - KFILL - KFILS to be used only with 1/4 gas aspiration suction

KRAC



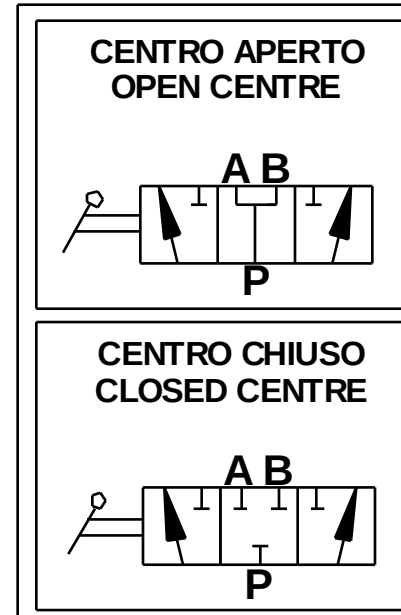
Filter

For pipe d.10 mm

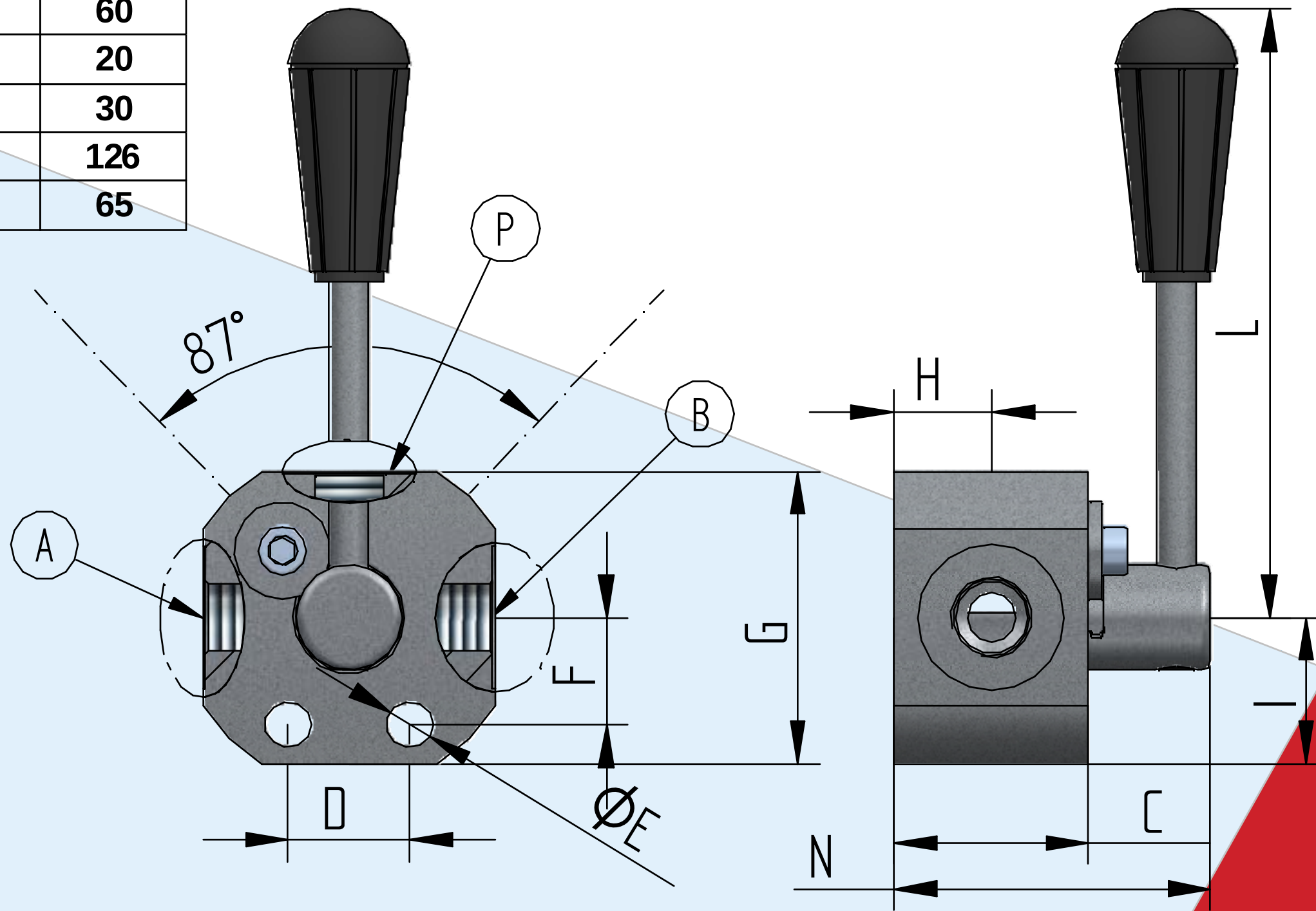


Filter

Descrizione / Codice Description / Code	AI316DEV AP 3V3/8	AI316DEV AP 3V1/2
Pressione massima - Max pressure Bar	400	400
Portata - Flow Lt/min	50	80
Peso - Weight Kg	1,10	1,15
A - B - P	3/8 GAS	1/2 GAS
C	40	40
D	26	26
E	9,5	9,5
F	22	22
G	60	60
H	20	20
I	30	30
L	126	126
N	65	65



3 VIE - 3 WAYS



Codice di ordinazione - Ordering code

AI316DEVAP

Option 1

3 V

Option 2

3/8
1/2

Option 3

CA
CC

Option 1

3V

N. 3 vie di connessione
N. 3 ways connection

Option 2

Thread A-B-P-A1-B1-P1

G3/8 Filetto 3/8 Gas - Thread 3/8 Gas

G1/2 Filetto 1/2 Gas - Thread 1/2 Gas

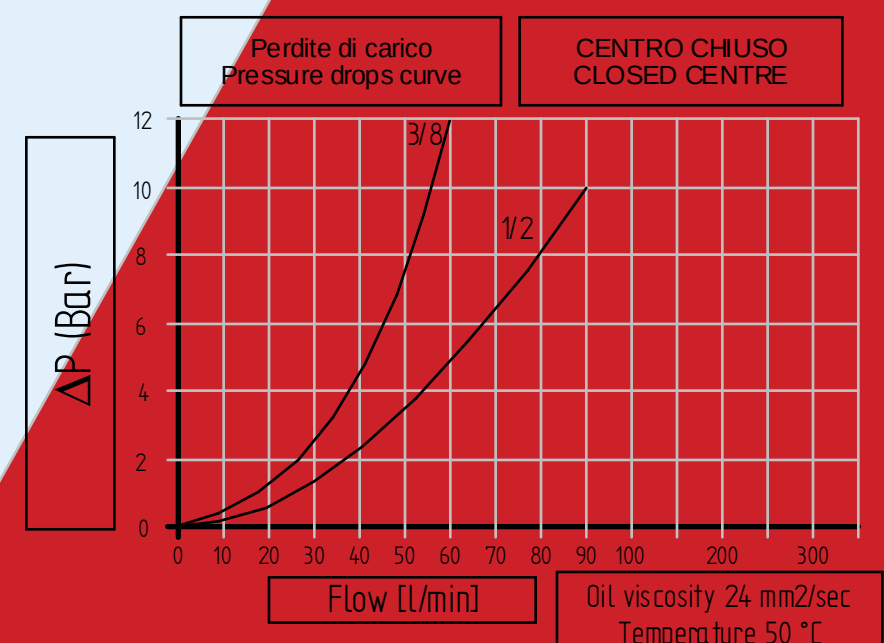
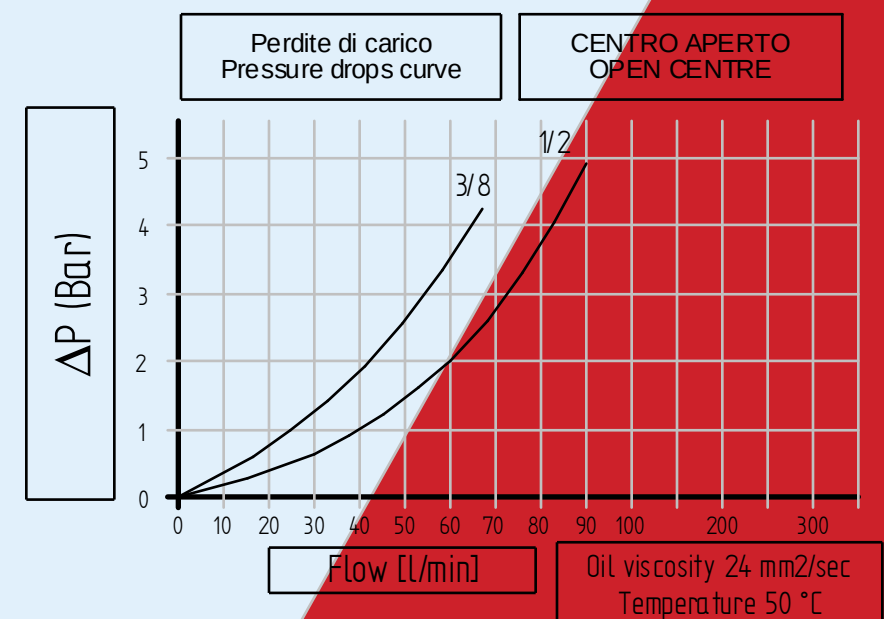
Option 3

CA

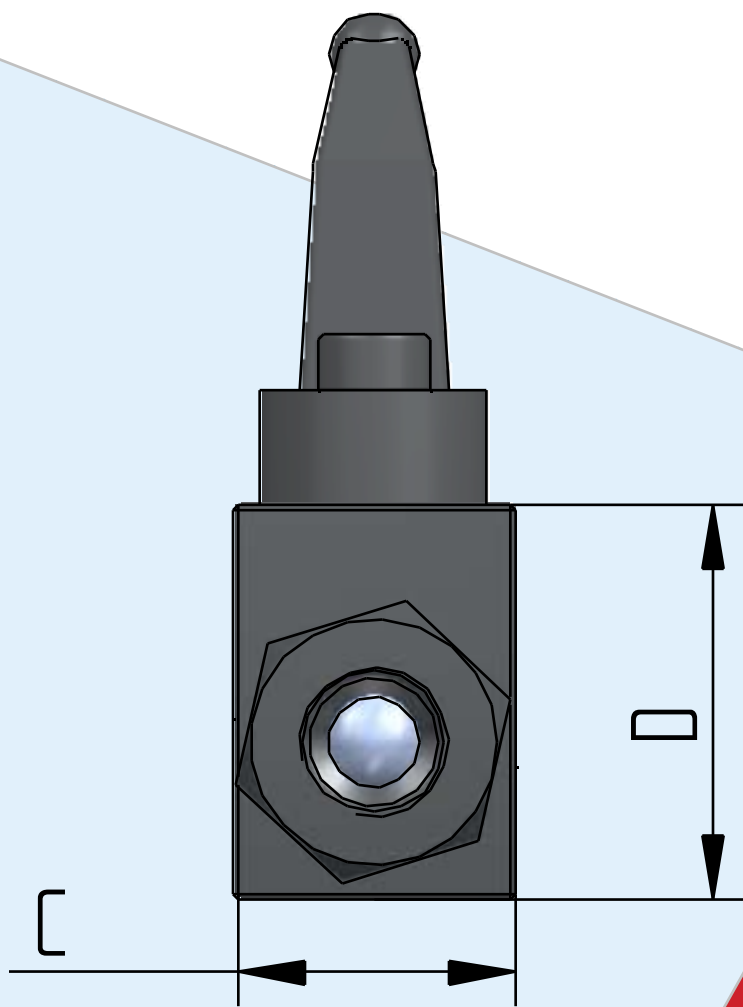
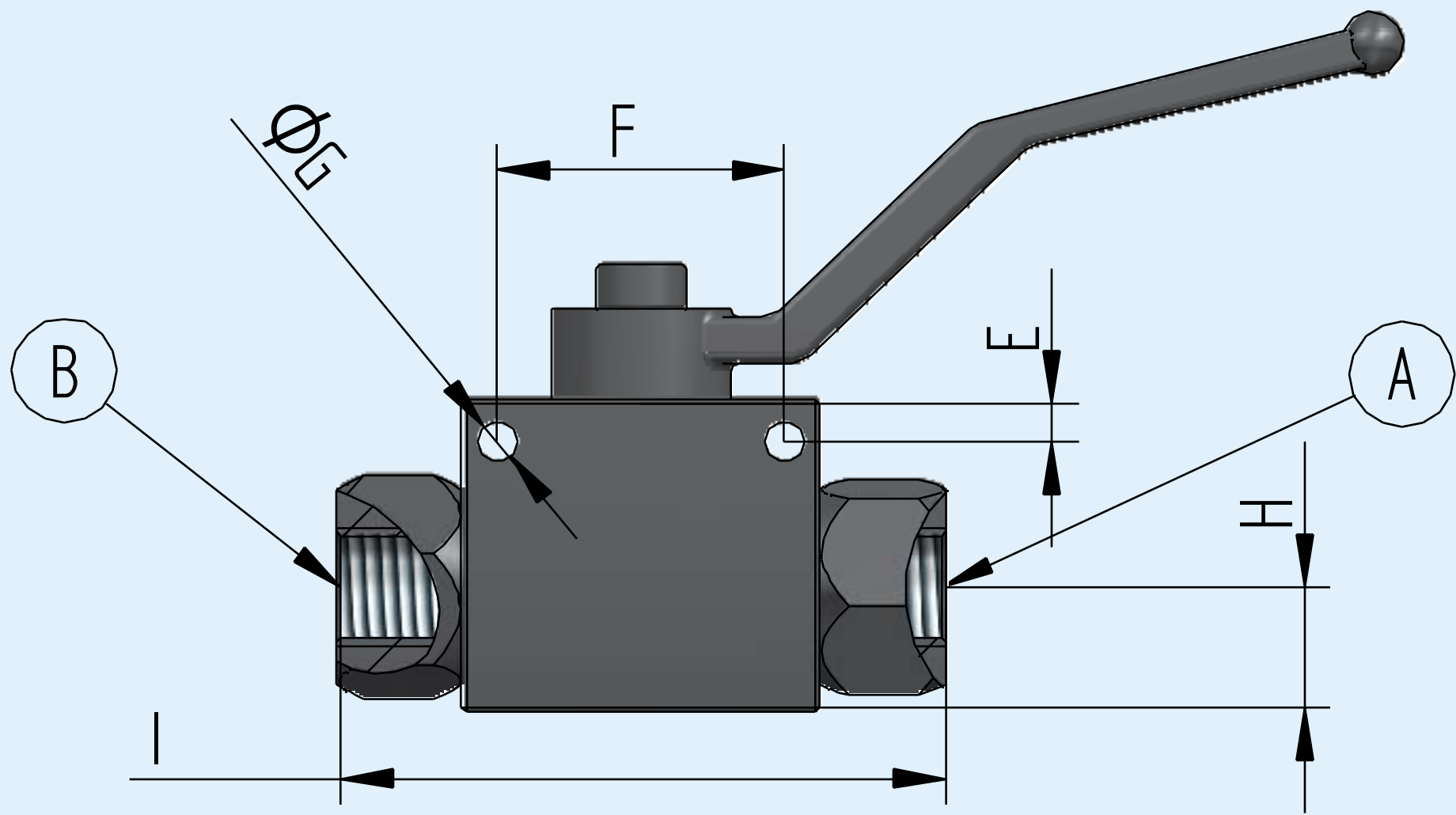
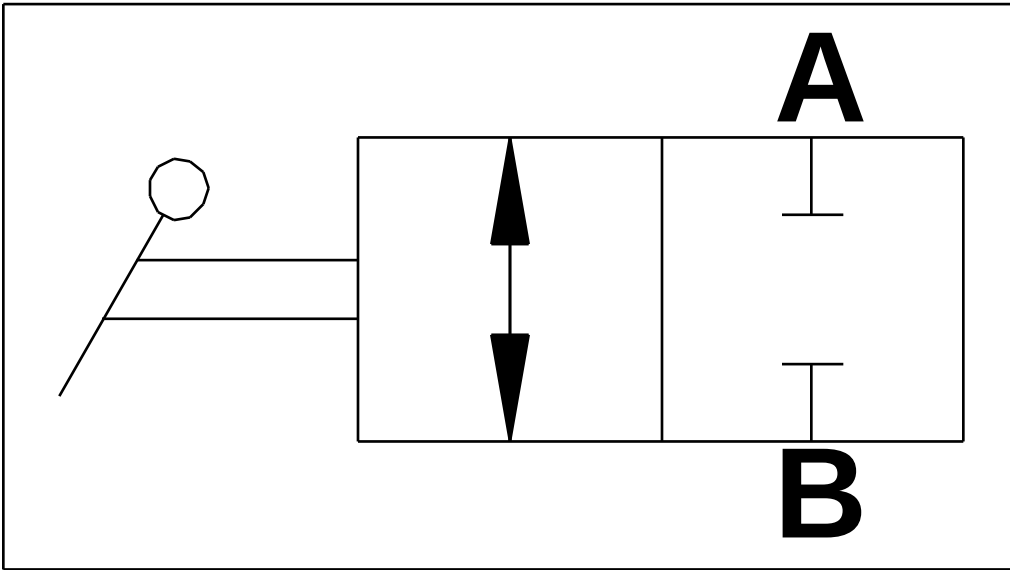
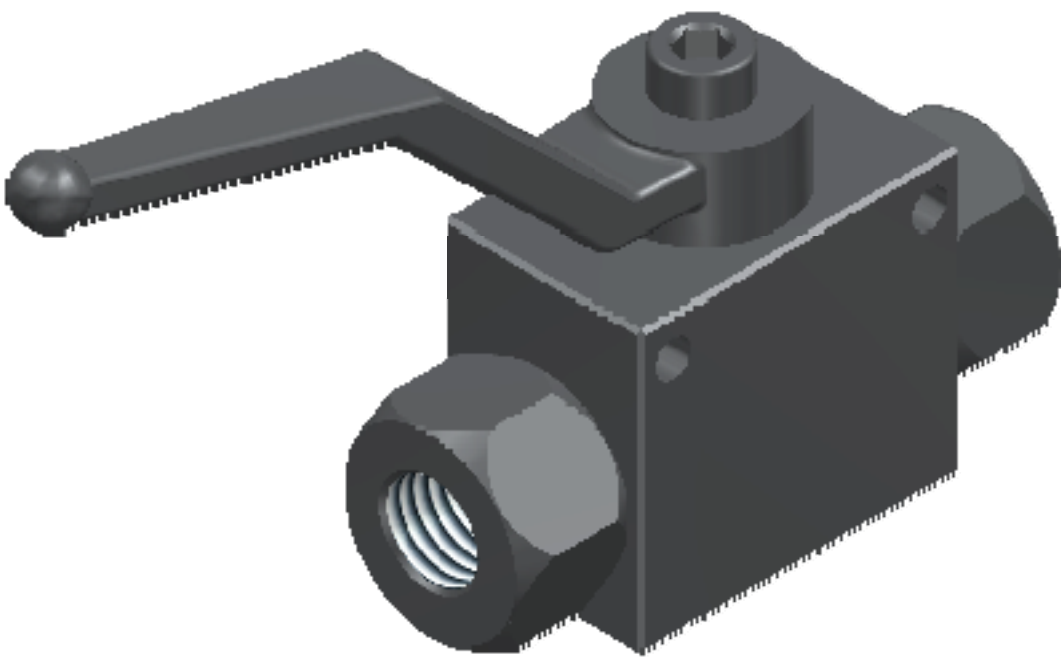
Cursore centro aperto
Open centre cursor

CC

Cursore centro chiuso
Closed centre cursor



Descrizione / Codice Description / Code	VH2V -G1/4 -SS316	VH2V -G3/8 -SS316	VH2V -G1/2 -SS316
Pressione massima - Max pressure Bar	500	500	500
Portata - Flow Lt/min	15	30	60
Peso - Weight Kg	0,40	0,50	0,70
DIN	6	10	13
A	1/4 GAS	3/8 GAS	1/2 GAS
C	26	32	35
D	35	40	45
E	4,8	5,8	6
F	32	32	39
G	4,5	5,3	6,5
H	14	16	18
I	69	72	83

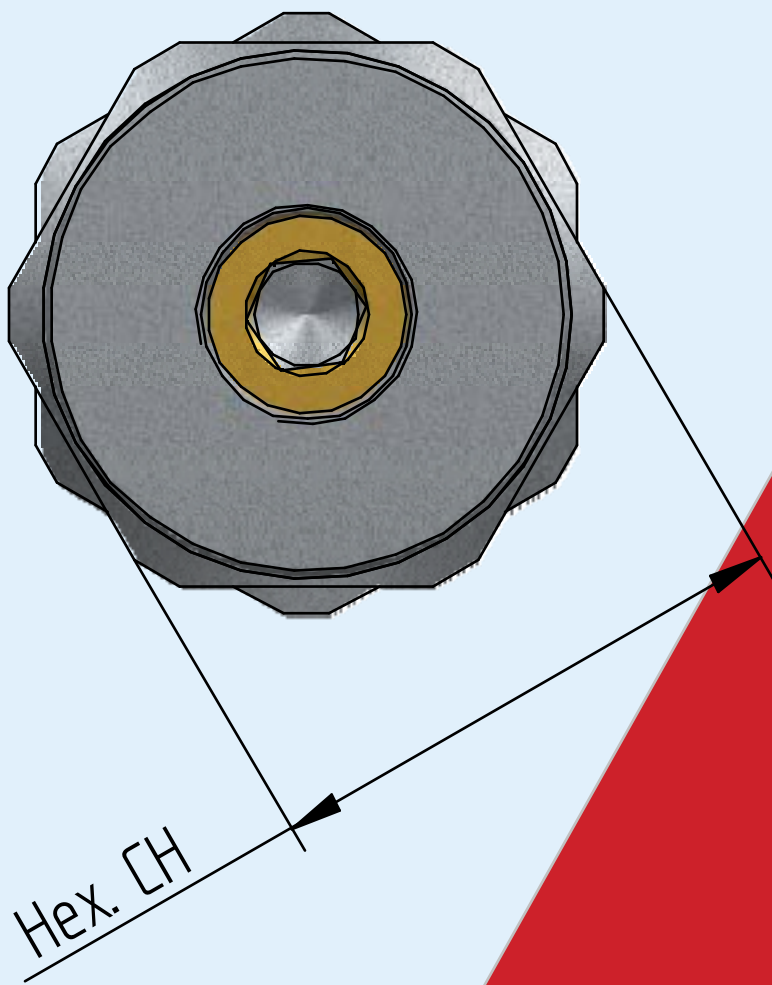
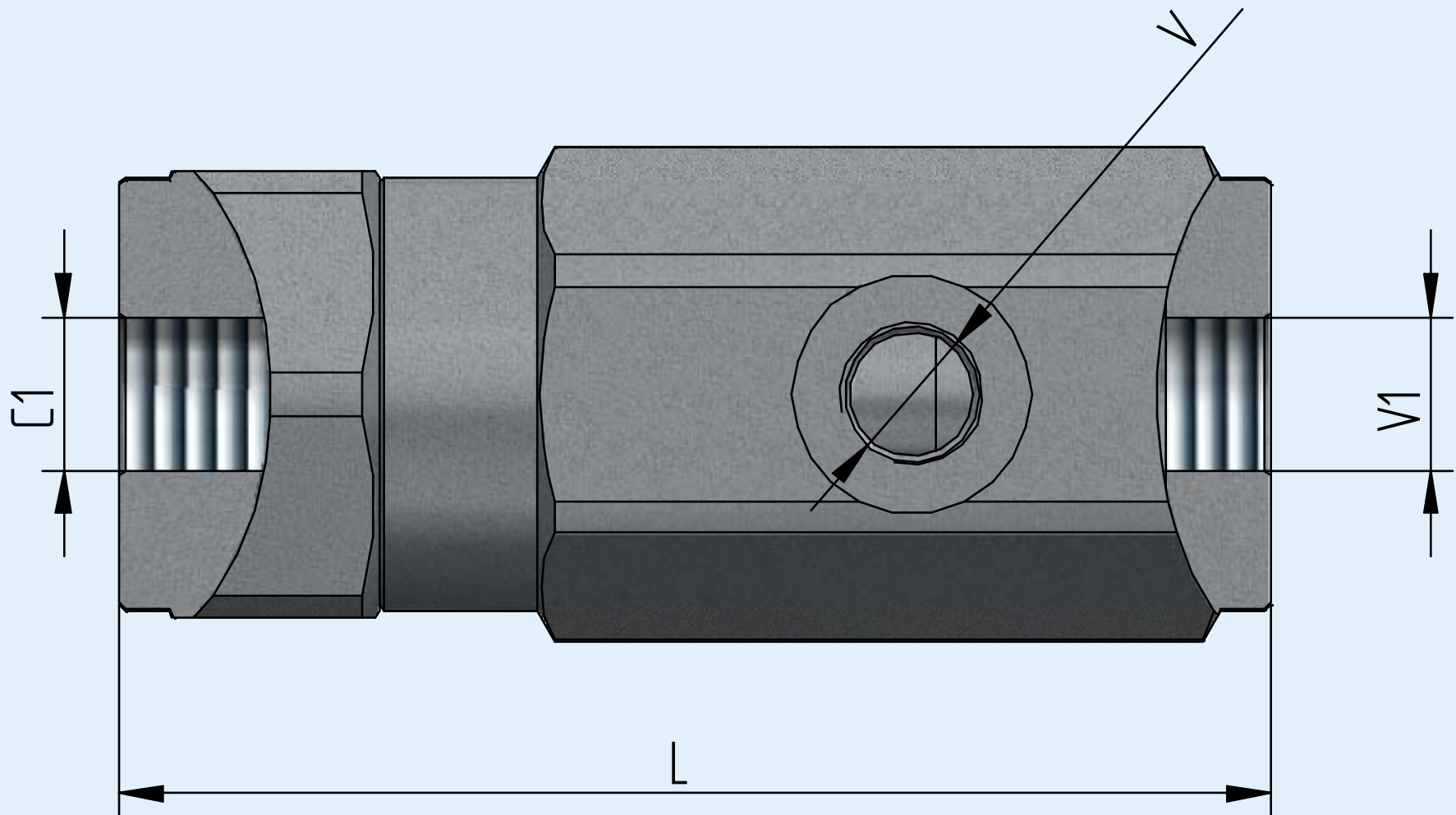
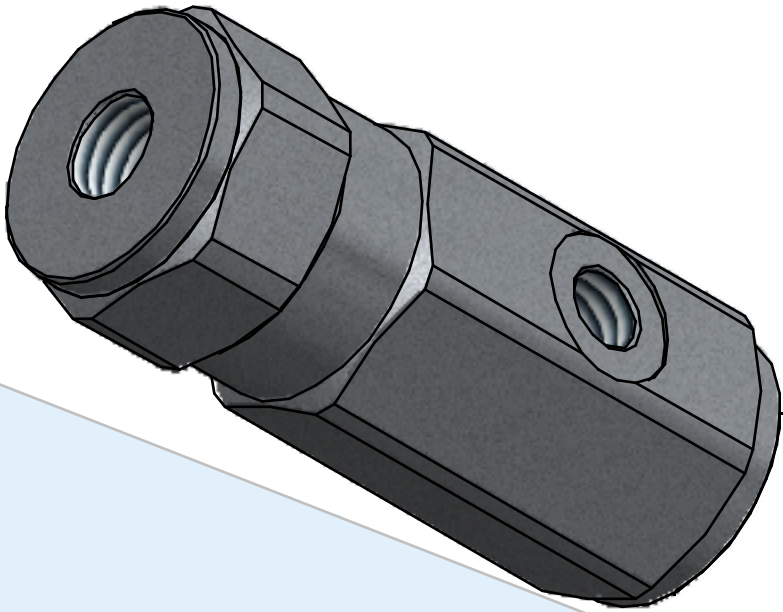
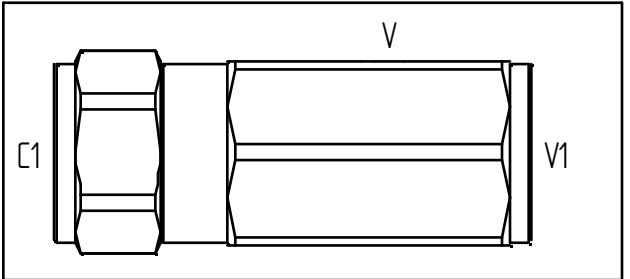
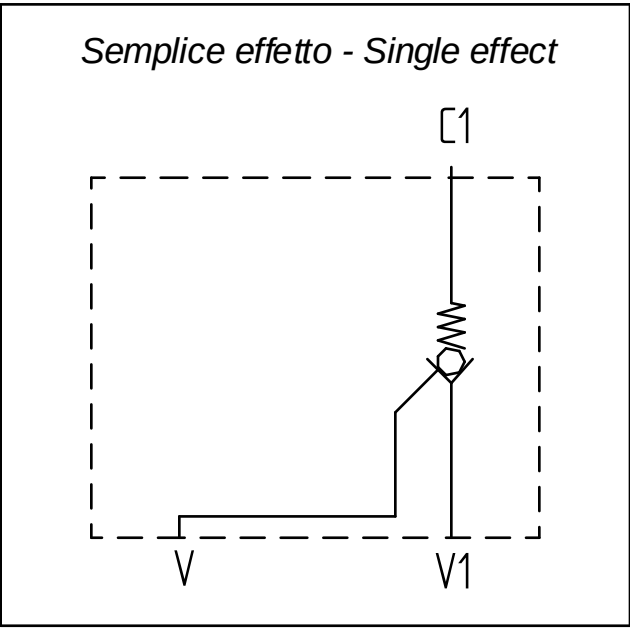


Codice di ordinazione - Ordering code

VH2V-	Option 1	G1/4	-SS316
		G3/8	
		G1/2	

Option 1	
Thread A-B	
G1/4	Filetto 1/4 Gas - Thread 1/4 Gas
G3/8	Filetto 3/8 Gas - Thread 3/8 Gas
G1/2	Filetto 1/2 Gas - Thread 1/2 Gas

Descrizione Description	AI316 VBPSE -G1/4	AI316 VBPSE -G3/8	AI316 VBPSE -G1/2
Pressione massima - Max pressure Bar	350	350	350
Portata - Flow Lt/min	25	40	60
Peso - Weight Kg	0,75	1	1
V1 - C1	3/8 GAS	3/8 GAS	3/8 GAS
V (Max 12 mm)	1/4 GAS	1/4 GAS	1/4 GAS
L	96	106	122
Hex. CH	36	41	41
Pressione apertura Opening pressure Bar	0,5	0,5	0,5
Rapporto pilotaggio - Pilot ratio	1:5	1:4.4	1:1.2
Materiale corpo - Body material	Stainless steel AISI316		

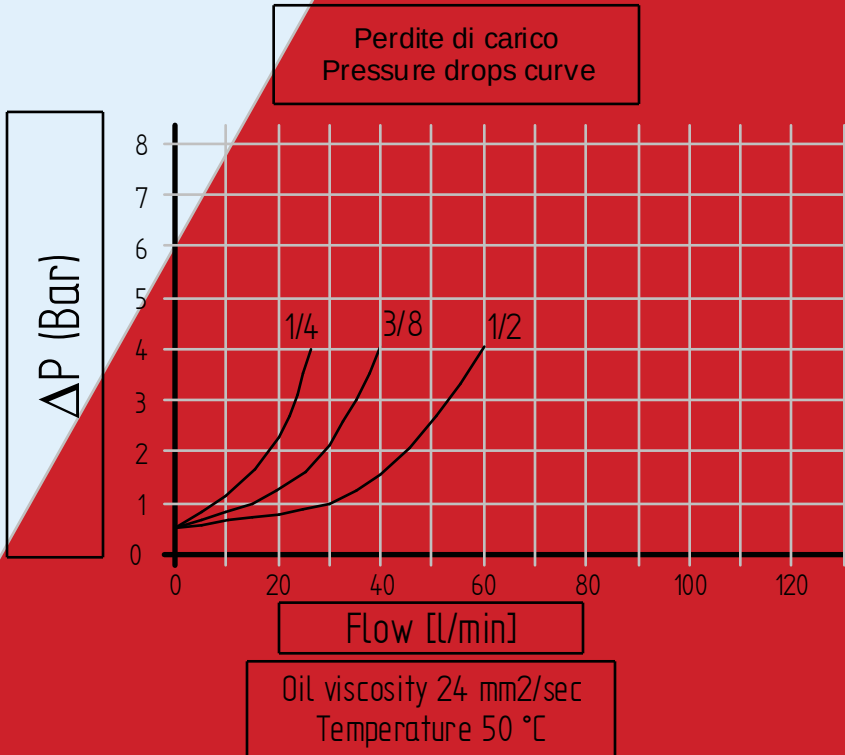


Codice di ordinazione
Ordering code

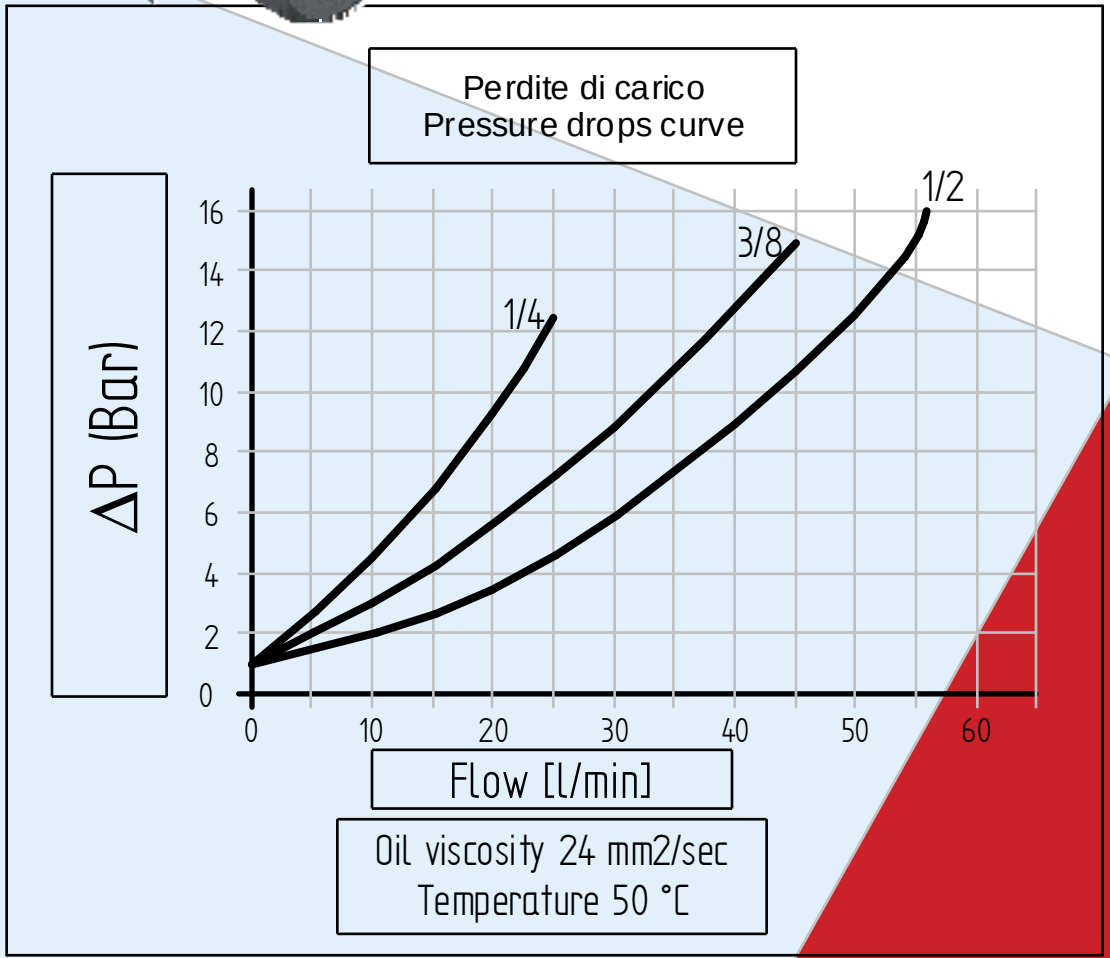
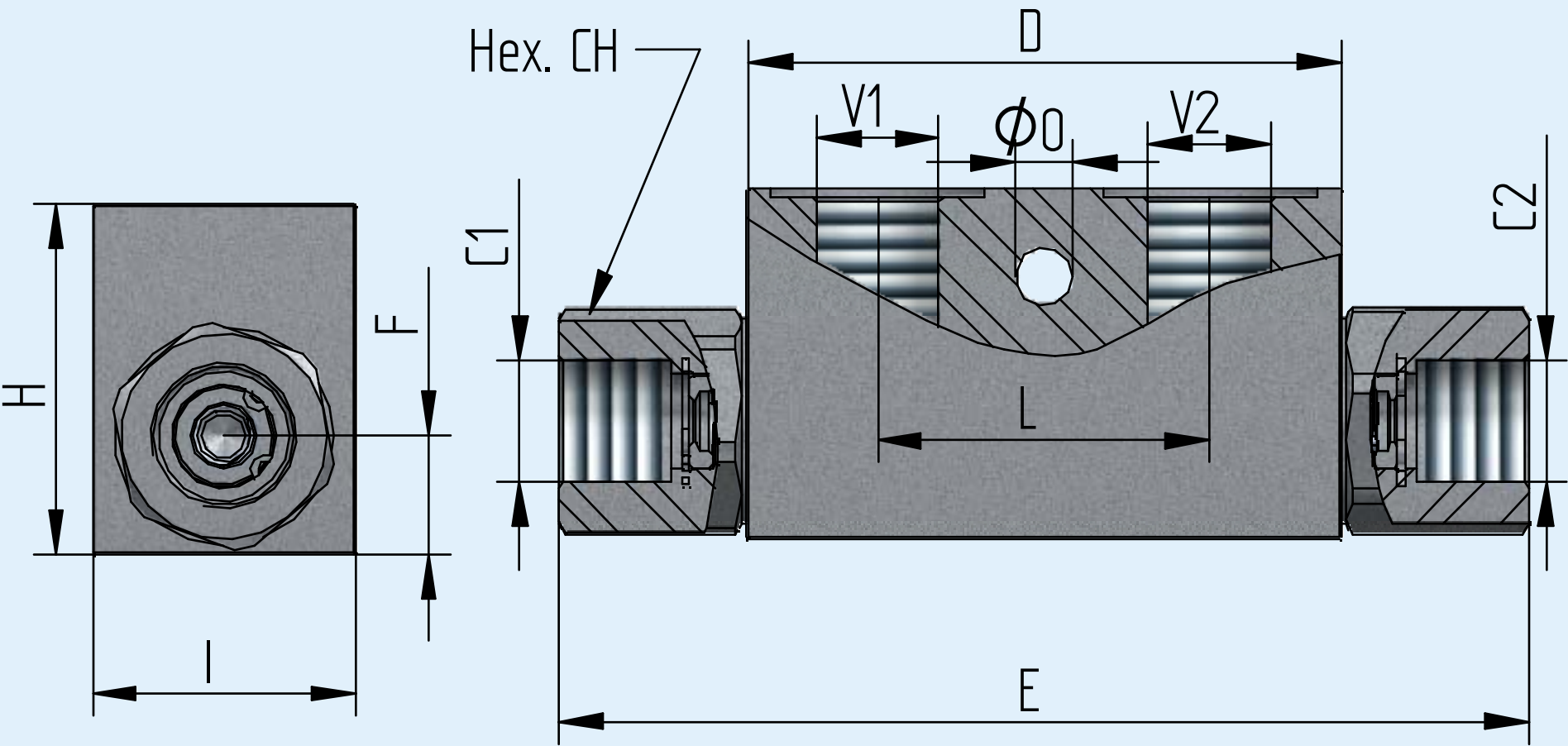
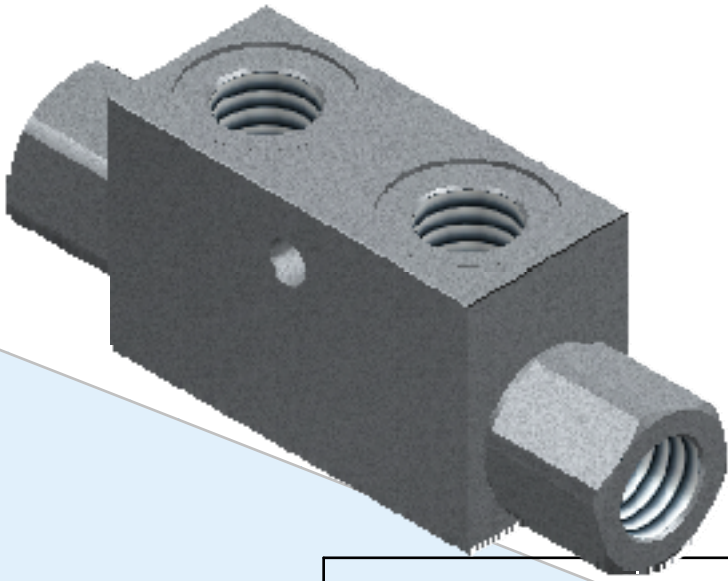
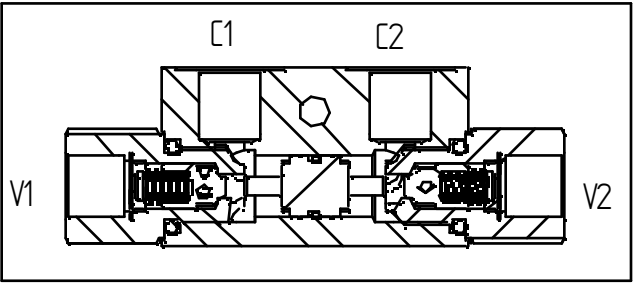
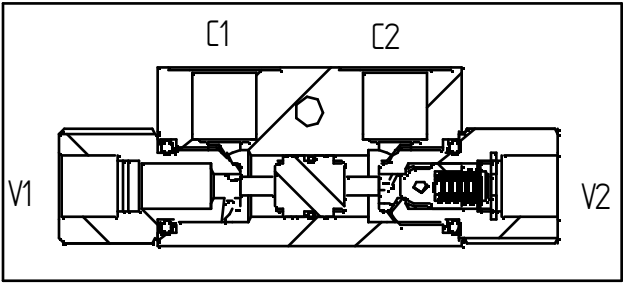
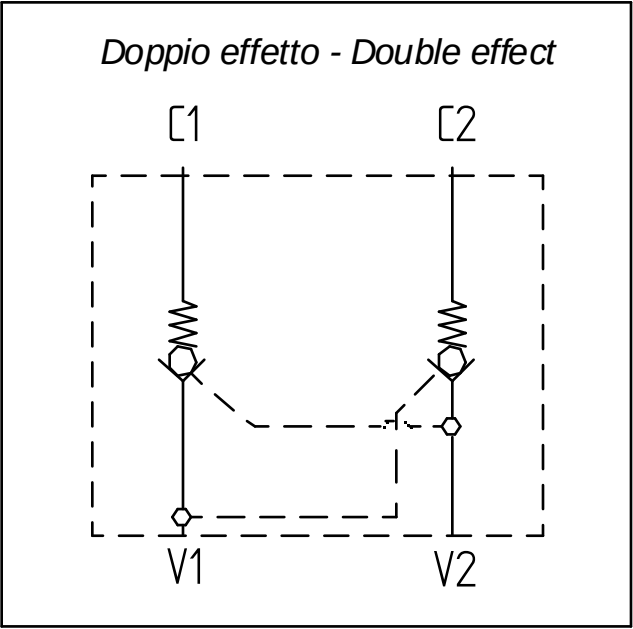
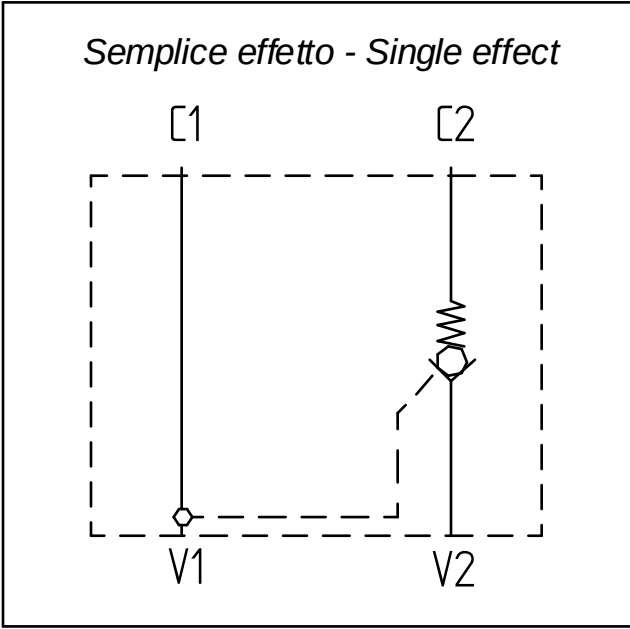
AI316VBP	Option 1	SE	-	Option 2	1/4
					3/8
					1/2

Option 1	
SE	Valvola di blocco a singolo effetto Check valve single acting

Option 2	
Thread V1 - C1	
G1/4	Filetto 1/4 Gas Thread 1/4 Gas
G3/8	Filetto 3/8 Gas Thread 3/8 Gas
G1/2	Filetto 1/2 Gas Thread 1/2 Gas



Descrizione Description	AI316VB -G1/4	AI316 VB -G3/8	AI316 VB -G1/2
Pressione massima - Max pressure Bar	350	350	300
Portata - Flow Lt/min	30	30	50
Peso - Weight Kg	0,65	0,65	1,06
V1 - V2	1/4 GAS	3/8 GAS	1/2 GAS
C1 - C2	1/4 GAS	3/8 GAS	1/2 GAS
D	64	64	80
E	107	107	158
F	13,5	13,5	18
H	40	40	50
I	30	30	30
L	36	36	40
Hex. CH	24	24	30
O	5,5	7	6,5
Rapporto pilotaggio - Pilot ratio	1:4	1:4	1:3
Materiale corpo - Body material	STAINLESS STEEL AISI316		



Codice di ordinazione
Ordering code

AI316VB	Option 1 SE DE	-	Option 2 G1/4 G3/8 G1/2	Option 3 M N	Option 4 X
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Nel caso non si indicasse l'Opzione3 e/o l'Opzione4,
sarà fornita in configurazione standard.

If Option3 and/or Option4 are not indicated,
standard configuration will be considered.

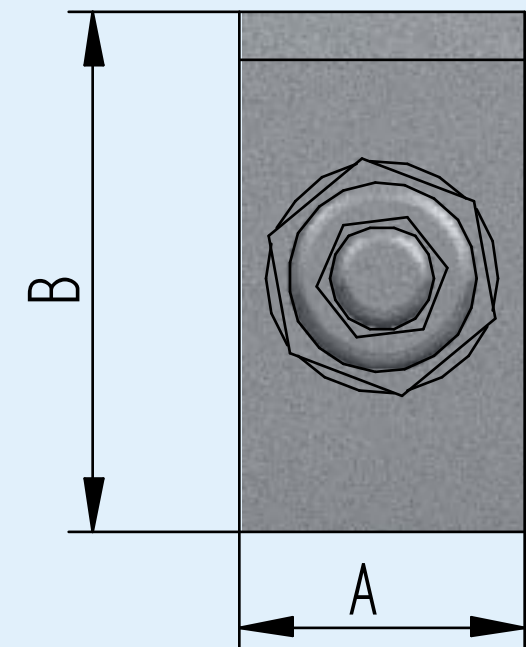
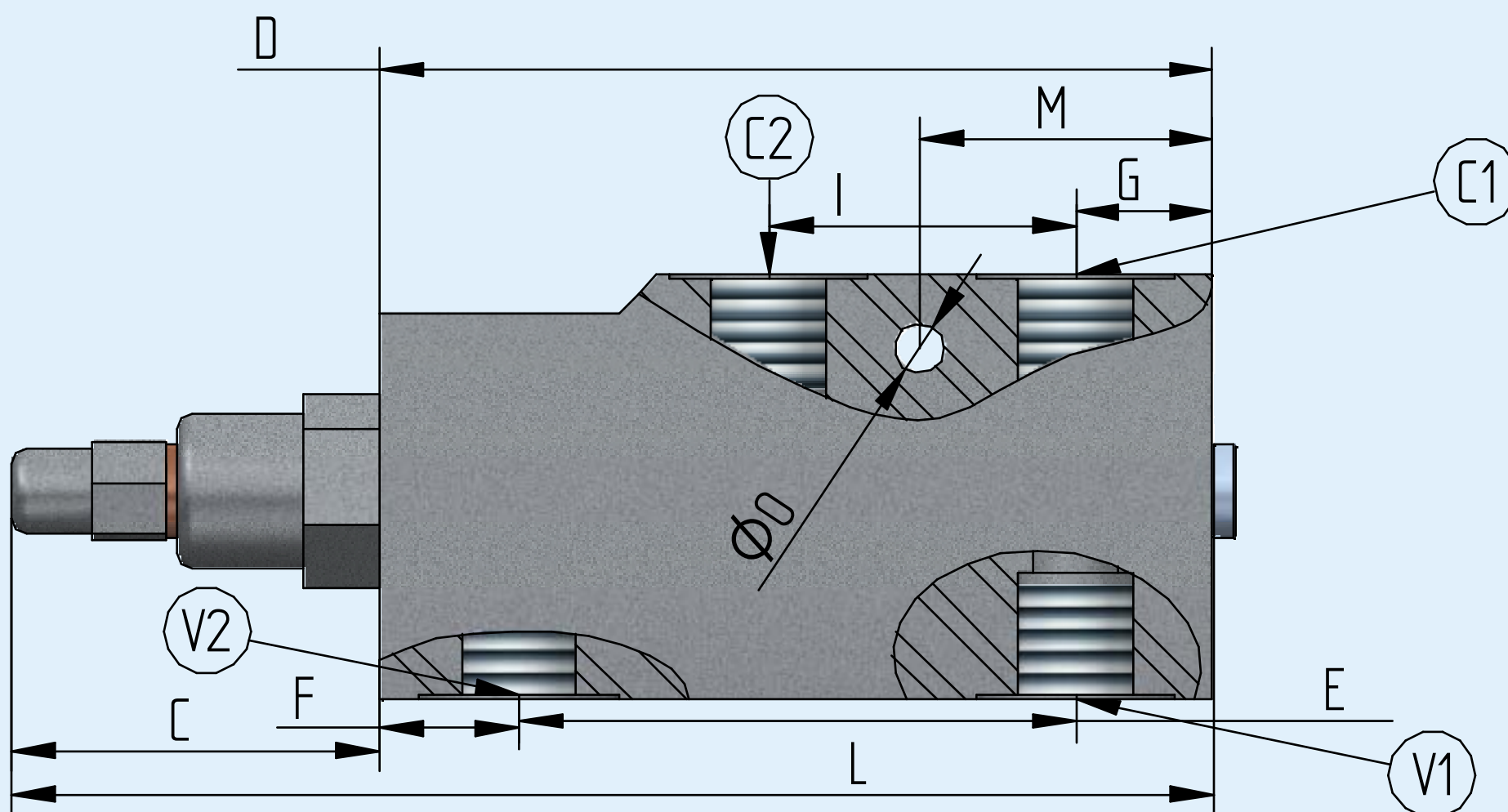
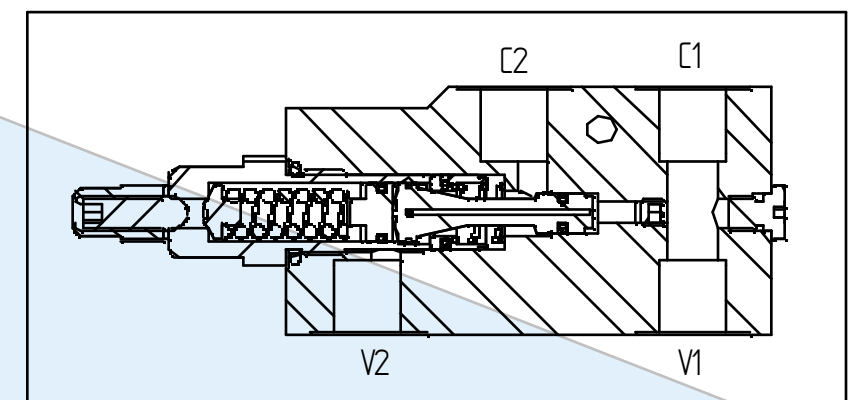
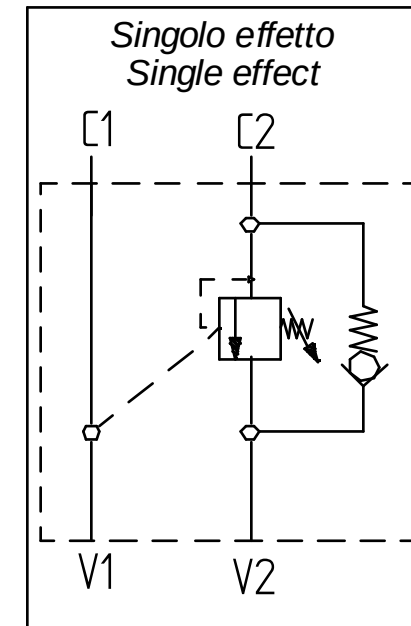
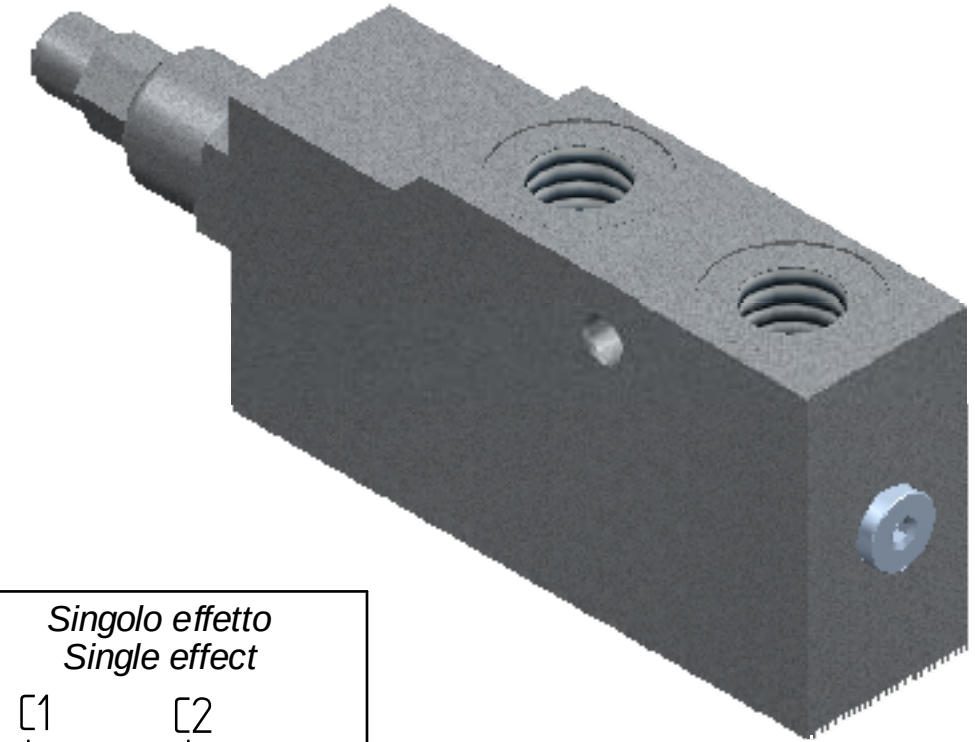
Option 1	
SE	Valvola di blocco a singolo effetto Check valve single acting
DE	Valvola di blocco a doppio effetto Check valve double acting

Option 2	
Thread V1 - V2	
G1/4	Filetto 1/4 Gas Thread 1/4 Gas
G3/8	Filetto 3/8 Gas Thread 3/8 Gas
G1/2	Filetto 1/2 Gas Thread 1/2 Gas

Option 3	
*= standard	
M (*)	O-Ring su pistone pilota With seal on pilot piston
N	Senza O-Ring su pistone pilota Without seal on pilot piston

Option 4	*= standard
X (*)	Pressione di apertura Cracking pressure 3 Bar

Descrizione Description		AI316 VOSE -G1/4	AI316 VOSE -G3/8	AI316 VOSE -G1/2
Pressione massima Max pressure	Bar	350	350	350
Portata - Flow	Lt/min	30	40	60
Peso - Weight	Kg	1,4	1,4	1,4
V1 - V2 - C1 - C2		3/8 GAS	3/8 GAS	1/2 GAS
A		30	30	30
B		60	60	60
C		(54)	(54)	(54)
D		105	105	105
E		64	64	64
F		25	25	25
G		16	16	16
I		38	38	38
M		35	35	35
O		6,5	6,5	6,5
Rapporto pilotaggio - Pilot ratio		1:4,25	1:4,25	1:4,25



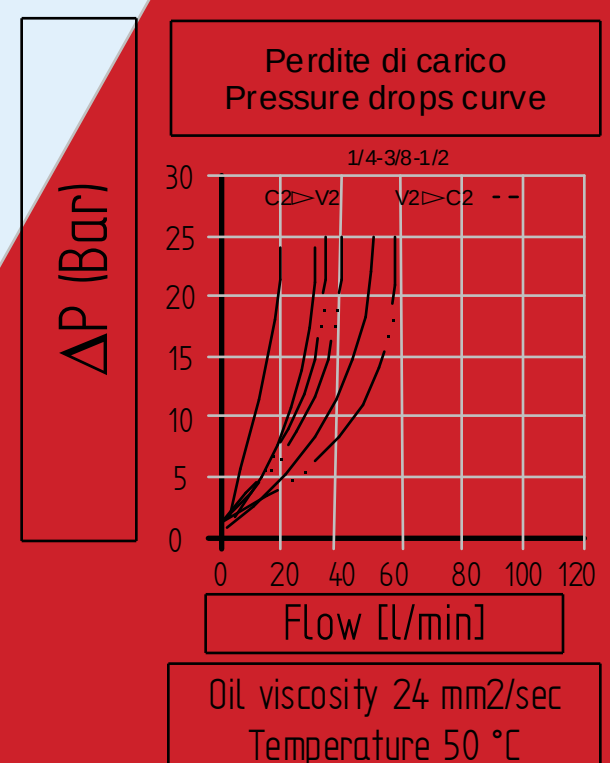
Codice di ordinazione Ordering code

AI316VOSE -	Option 1	G1/4	Option 2	X
		G3/8		Y
		G1/2		

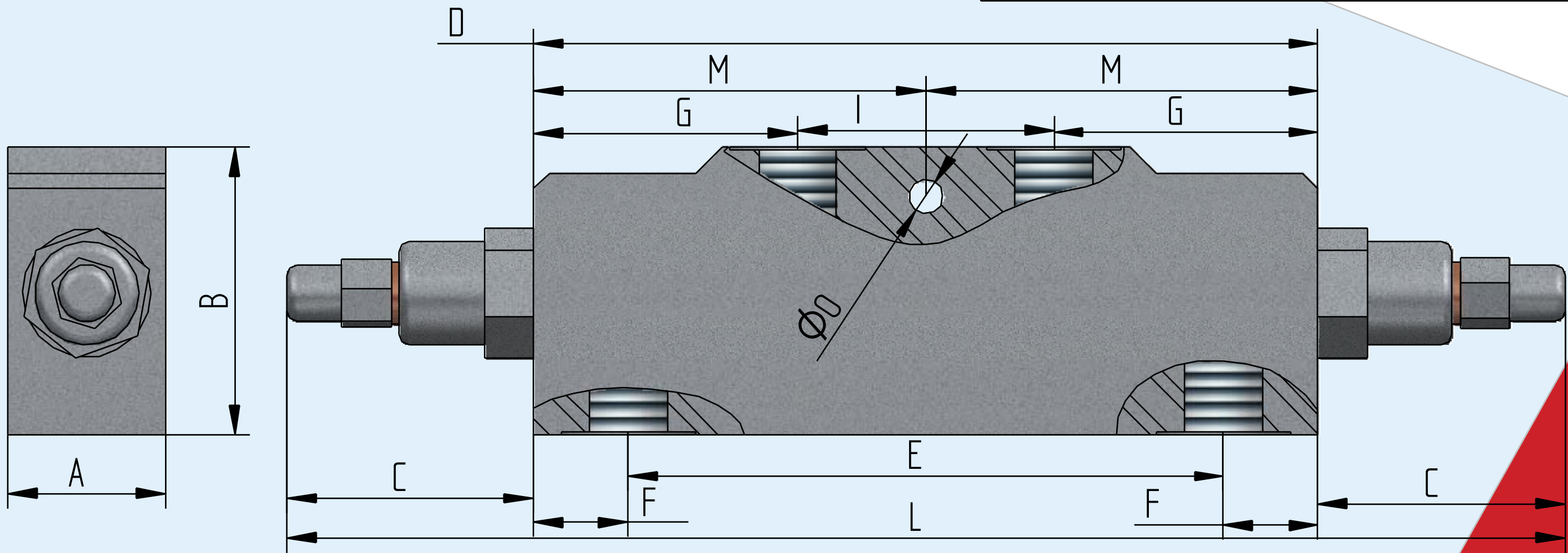
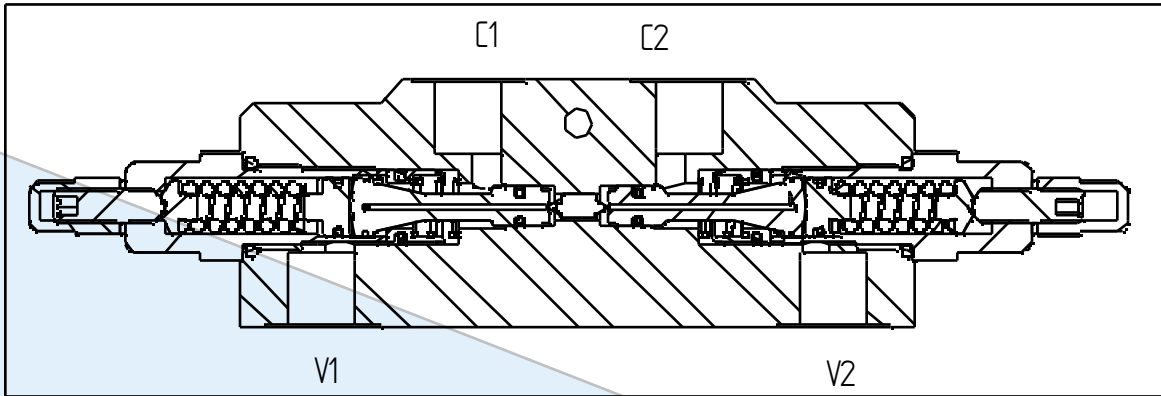
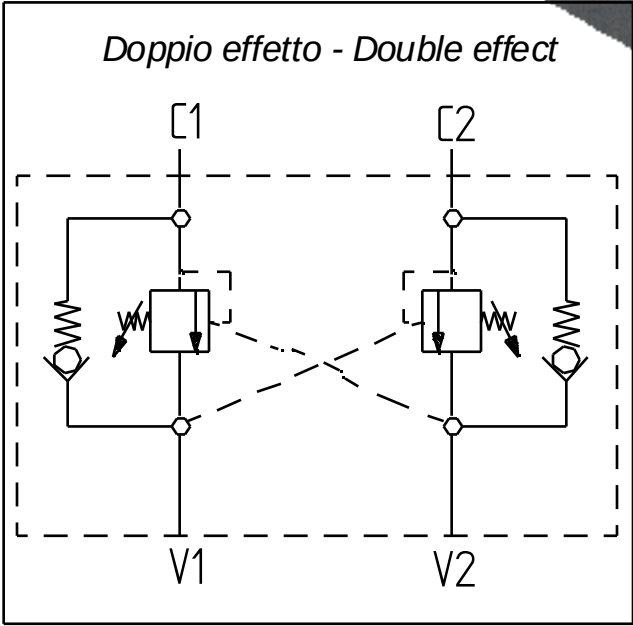
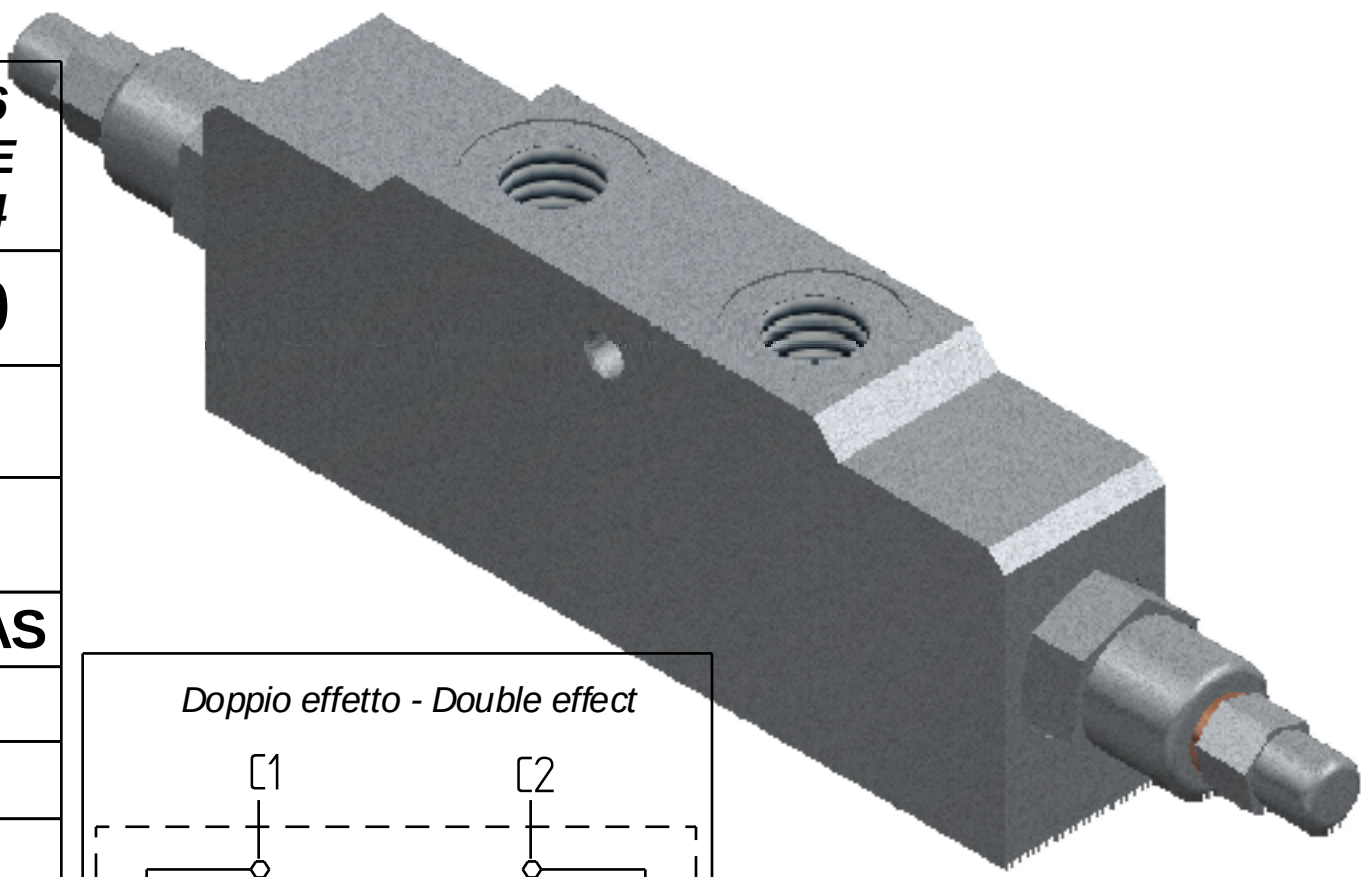
Option 1	Option 2	Taratura - Range setting
Thread V1 - V2 - C1 - C2	X (Standard)	30 - 210 Bar
G1/4 Filetto 1/4 Gas Thread 1/4 Gas	Y	60 - 350 Bar
G3/8 Filetto 3/8 Gas Thread 3/8 Gas		
G1/2 Filetto 1/2 Gas Thread 1/2 Gas		

Nel caso non si indicasse l'Opzione2 ,
sarà fornita in configurazione standard.

If Option2 is not indicated,
standard configuration will be considered.



Descrizione Description		AI316 VODE -G1/4	AI316 VODE -G3/8	AI316 VODE -G1/2	AI316 VODE -G3/4
Pressione massima Max pressure	Bar	350	350	350	350
Portata - Flow	Lt/min	30	40	60	90
Peso - Weight	Kg	2,10	2,06	2,00	3,8
V1 - V2 - C1 - C2		1/4 GAS	3/8 GAS	1/2 GAS	3/4 GAS
A		30	30	30	35
B		60	60	70	80
C		(54)	(54)	(54)	(57)
D		150	150	150	190
E		110	110	110	143
F		20	20	20	23,5
G		45	45	45	55
I		50	50	50	65
O		8,5	8,5	8,5	8,5
Rapporto pilotaggio - Pilot ratio		1:4,25	1:4,25	1:4,25	1:6,25



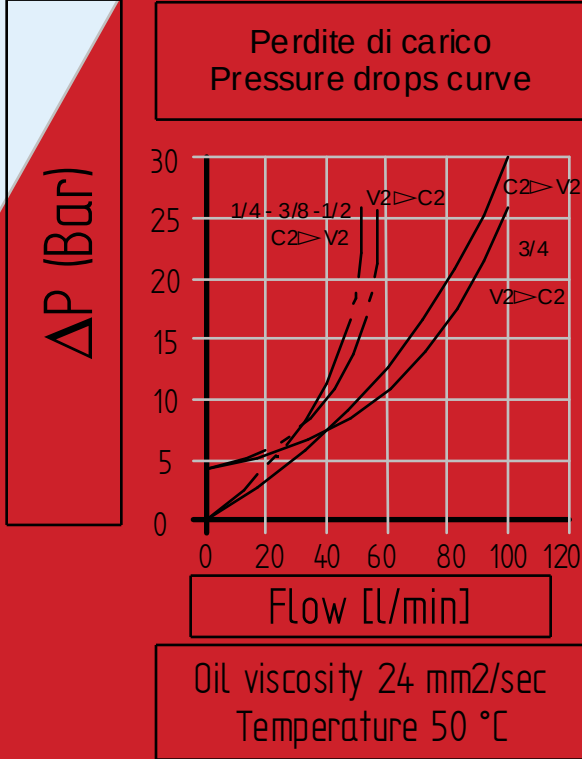
Codice di ordinazione
Ordering code

AI316VODE-	Option 1	G1/4	Option 2	X
		G3/8		
		G1/2		
		G3/4		Y

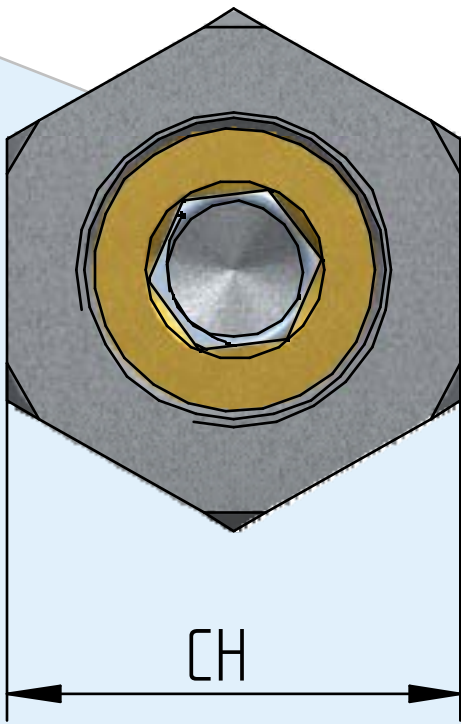
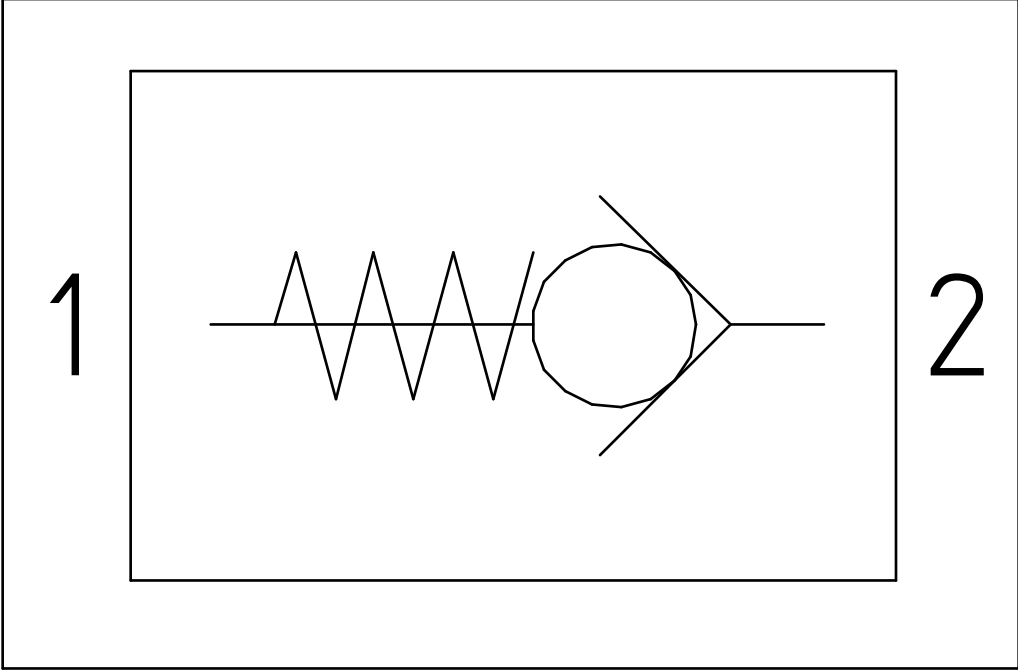
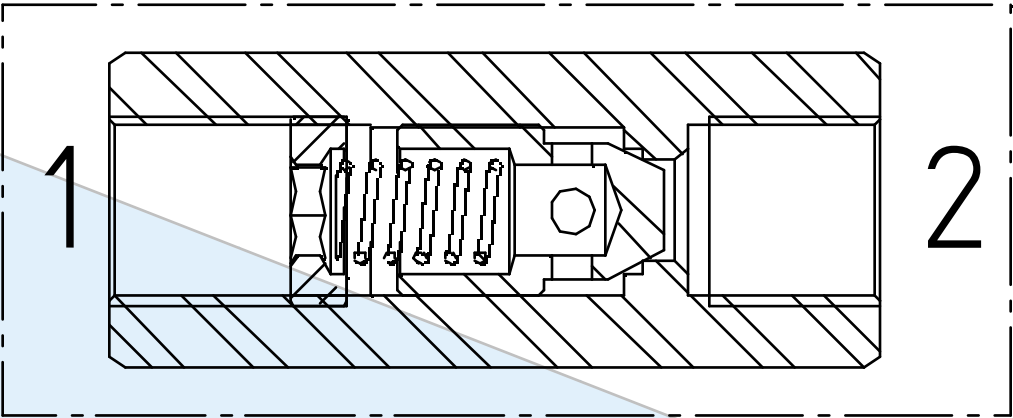
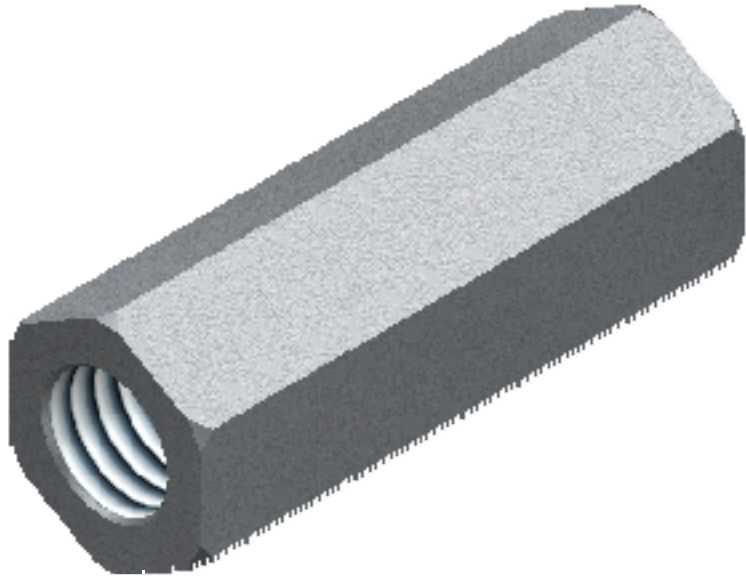
Option 1	Option 2	Taratura - Range setting
Thread V1 - V2 - C1 - C2	X	30 - 210 Bar
G1/4 Filetto 1/4 Gas Thread 1/4 Gas	Y	60 - 350 Bar
G3/8 Filetto 3/8 Gas Thread 3/8 Gas		
G1/2 Filetto 1/2 Gas Thread 1/2 Gas		
G3/4 Filetto 3/4 Gas Thread 3/4 Gas		

Nel caso non si indicasse l'Opzione2,
sarà fornita in configurazione standard.

If Option2 is not indicated,
standard configuration will be considered.



Descrizione Description	AI316 VU -G1/4	AI316 VU -G3/8	AI316 VU -G1/2	AI316 VU -G3/4	AI316 VU -G1"
Pressione massima - Max pressure Bar	350	350	320	300	300
Portata - Flow Lt/min	15	30	50	90	150
Peso - Weight Kg	0,10	0,18	0,31	0,45	0,70
1 - 2	1/4 GAS	3/8 GAS	1/2 GAS	3/4 GAS	1" GAS
L	55	65	75	86,5	105
CH	19	24	27	35	41
Materiale corpo - Body material	Stainless steel AISI316				



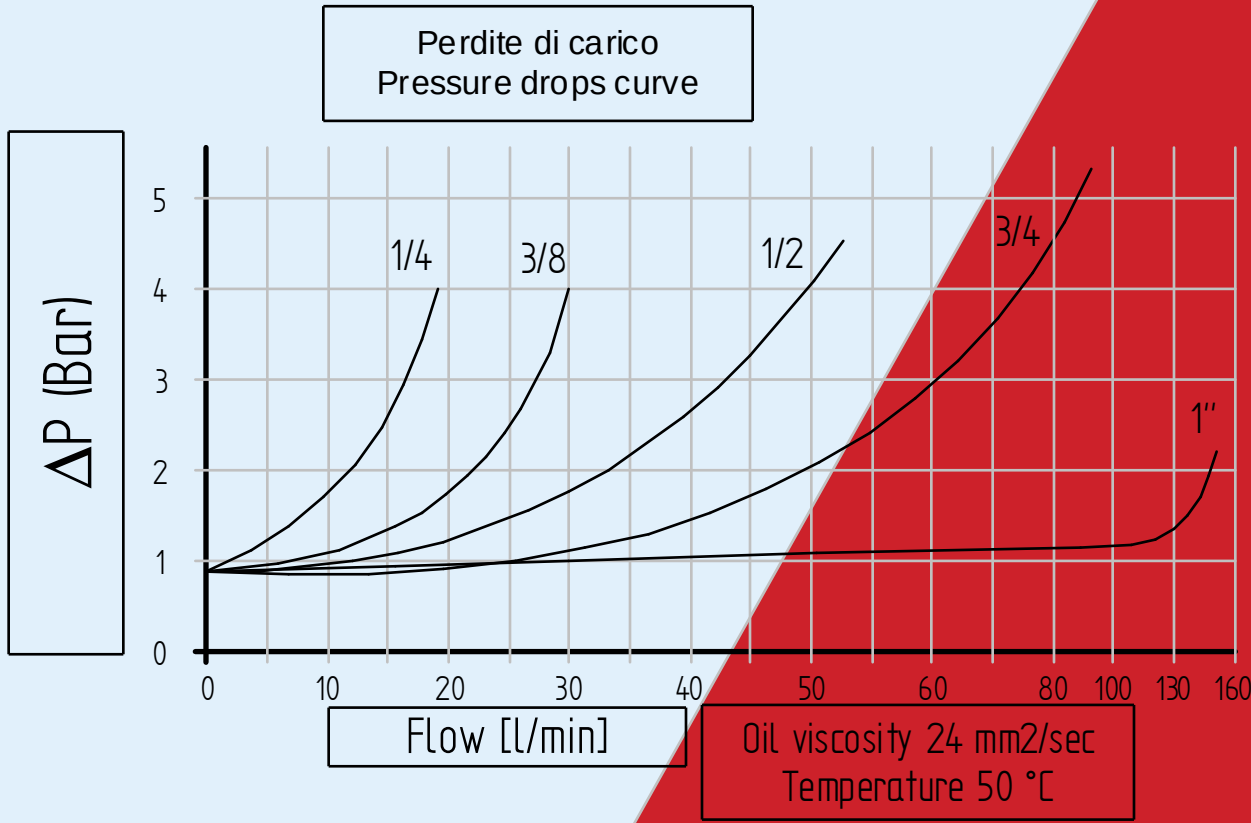
Codice di ordinazione Ordering code

AI316VU-	Option 1	G1/4	Option 2	X
		G3/8		Y
		G1/2		Z
		G3/4		
		G1"		

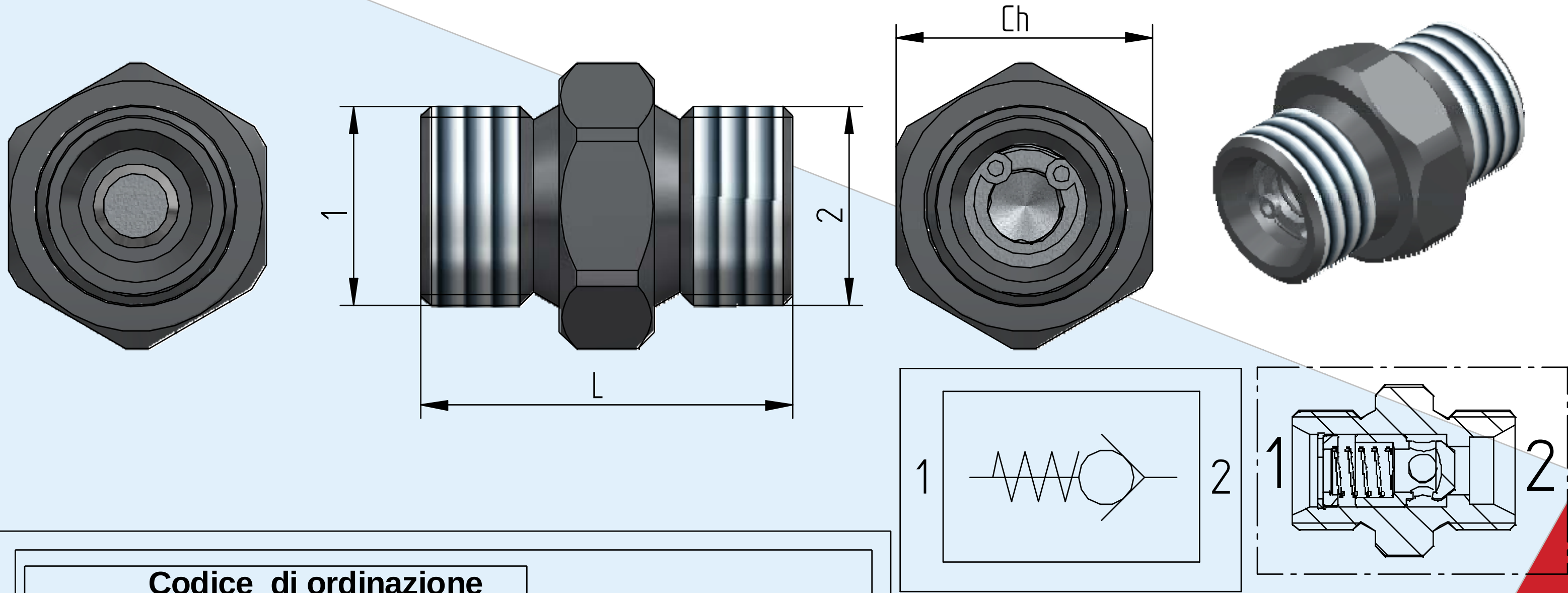
Nel caso non si indicasse l'Opzione2, sarà fornita in configurazione standard.

If Option2 is not indicated, standard configuration will be considered.

Option 1	Option 2	*= standard
Thread A1 - A2	X (*)	Pressione di apertura Cracking pressure 1 Bar
G1/4 Filetto 1/4 Gas - Thread 1/4 Gas	Y	Pressione di apertura Cracking pressure 3 Bar
G3/8 Filetto 3/8 Gas - Thread 3/8 Gas	Z	Pressione di apertura Cracking pressure 6 Bar
G1/2 Filetto 1/2 Gas - Thread 1/2 Gas		
G3/4 Filetto 3/4 Gas - Thread 3/4 Gas		
G1 Filetto 1" Gas - Thread 1" Gas		

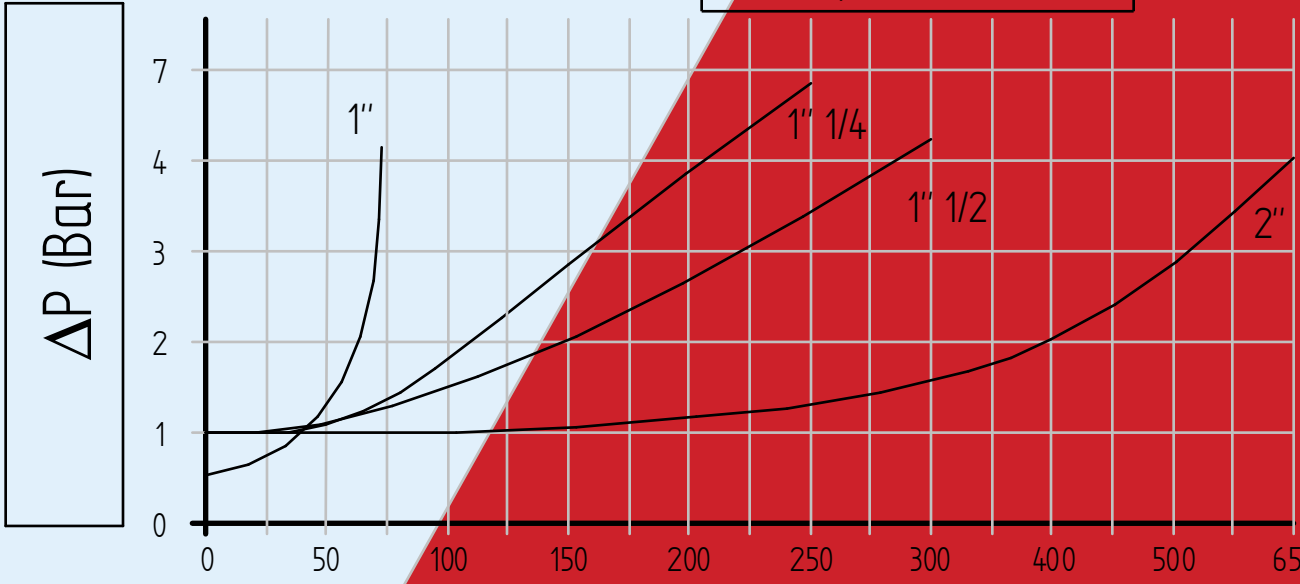
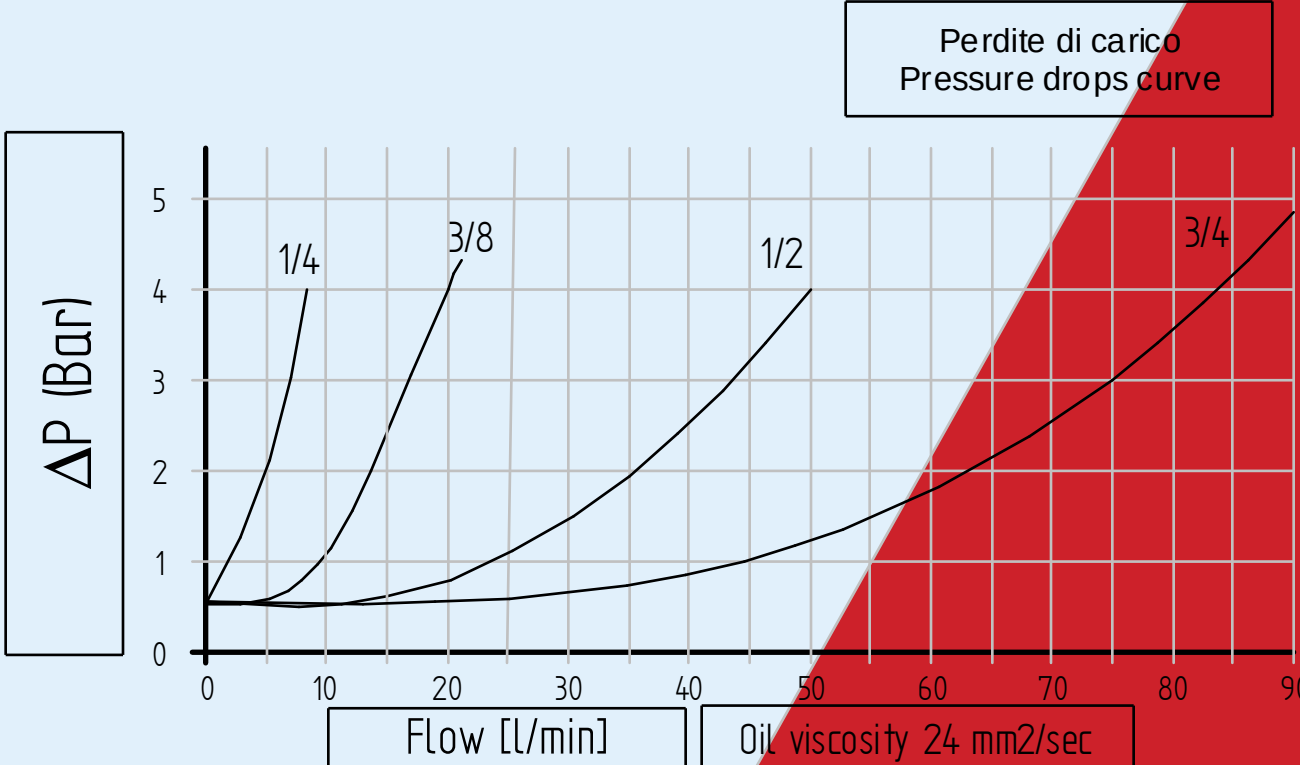


Descrizione Description	AI316VU -G1/4 MM	AI316VU -G3/8 MM	AI316VU -G1/2 MM	AI316VU -G3/4 MM	AI316VU -G1" MM	AI316VU -G1"1/4 MM	AI316VU -G1"1/2 MM	AI316VU -G2" MM
Pressione massima - Max pressure Bar	350	350	350	350	320	320	320	320
Portata - Flow Lt/min	8	20	50	90	90	250	300	650
Peso - Weight Kg	0,033	0,053	0,092	0,142	0,288	0,594	0,910	1,800
1 - 2	1/4 GAS	3/8 GAS	1/2 GAS	3/4 GAS	1" GAS	1" 1/4 GAS	1" 1/2 GAS	2" GAS
L	32	34	39	45	55	70	86	102
CH	19	22	27	32	40	50	55	70
Materiale corpo - Body material	Stainless steel AISI316							



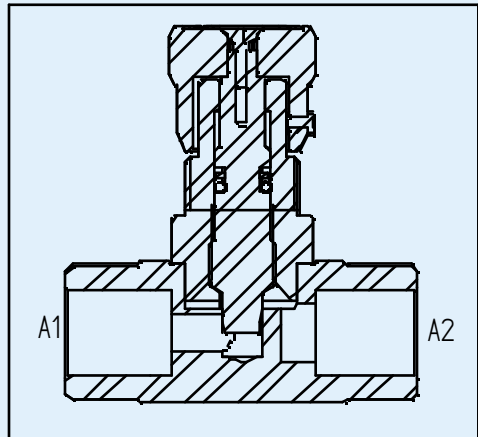
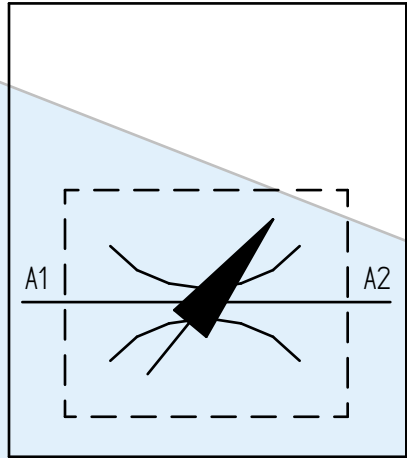
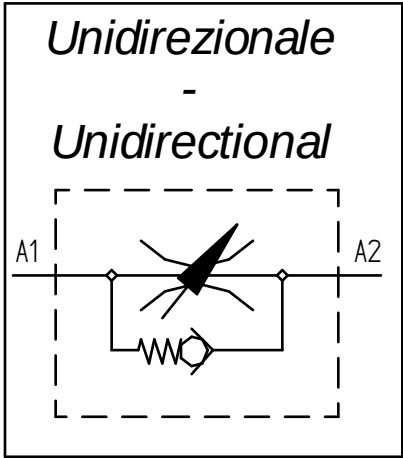
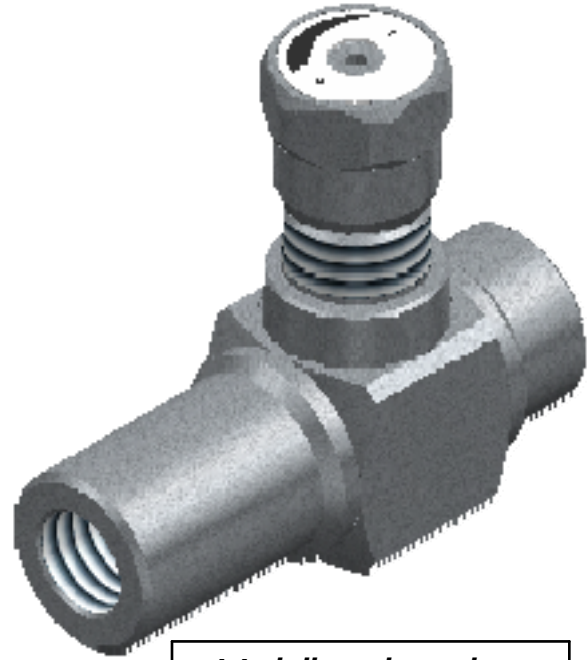
Codice di ordinazione Ordering code				Nel caso non si indicasse l'Opzione2, sarà fornita in configurazione standard.	
AI316VU-	Option 1	G1/4	MM	Option 2	X
		G3/8			Y
		G1/2			Z
		G3/4			
		G1			
		G11/4			
		G11/2			
		G2			
If Option2 is not indicated, standard configuration will be considered.					

Option 1		Option 2	*= standard
Thread A1 - A2		X (*)	Pressione di apertura Cracking pressure 1 Bar
G1/4	Filetto 1/4 Gas - Thread 1/4 Gas		
G3/8	Filetto 3/8 Gas - Thread 3/8 Gas	Y	Pressione di apertura Cracking pressure Until 1" - 3 Bar From 1"1/4 - 6 Bar
G1/2	Filetto 1/2 Gas - Thread 1/2 Gas		
G3/4	Filetto 3/4 Gas - Thread 3/4 Gas		
G1	Filetto 1" Gas - Thread 1" Gas	Z	Pressione di apertura Cracking pressure
G11/4	Filetto 1"1/4 Gas - Thread 1"1/4 Gas		Until 1" - 6 Bar From 1"1/4 - 9 Bar
G11/2	Filetto 1"1/2 Gas - Thread 1"1/2 Gas		
G2	Filetto 2" Gas - Thread 2" Gas		



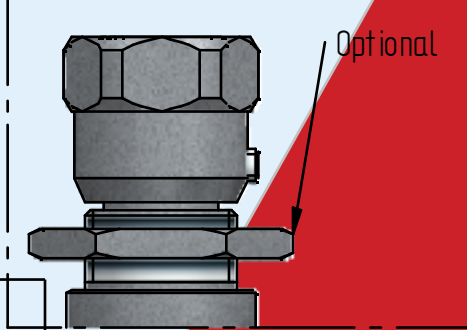
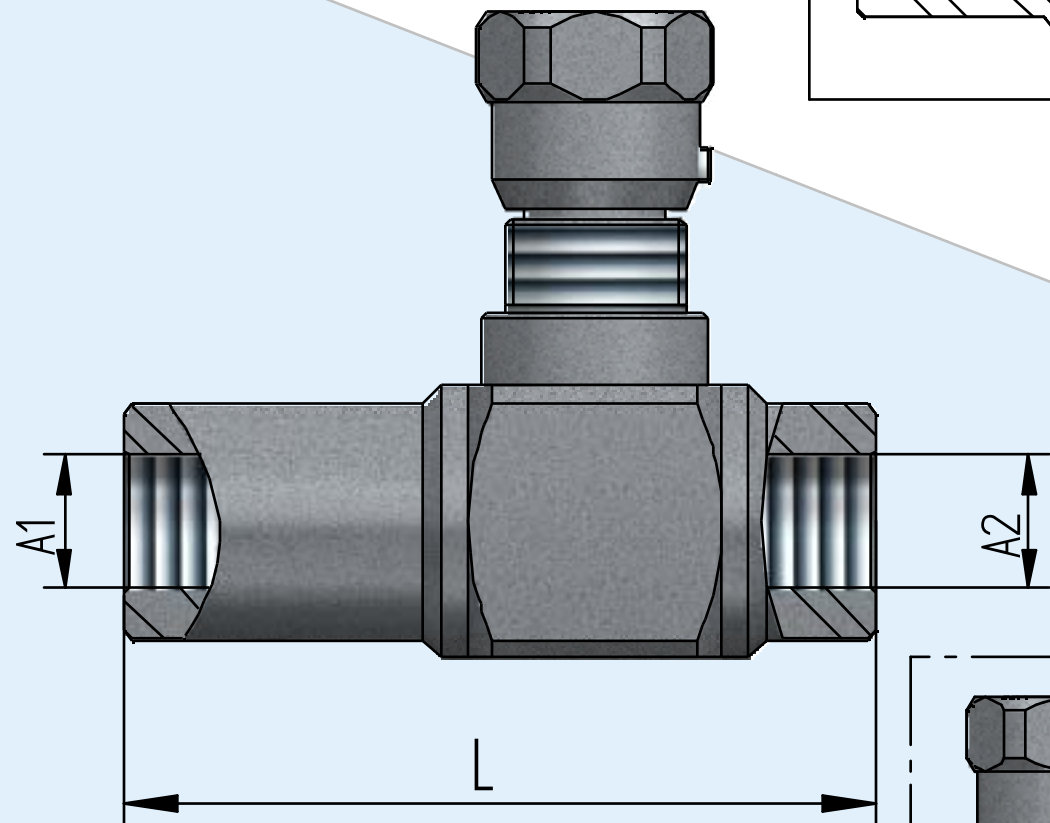
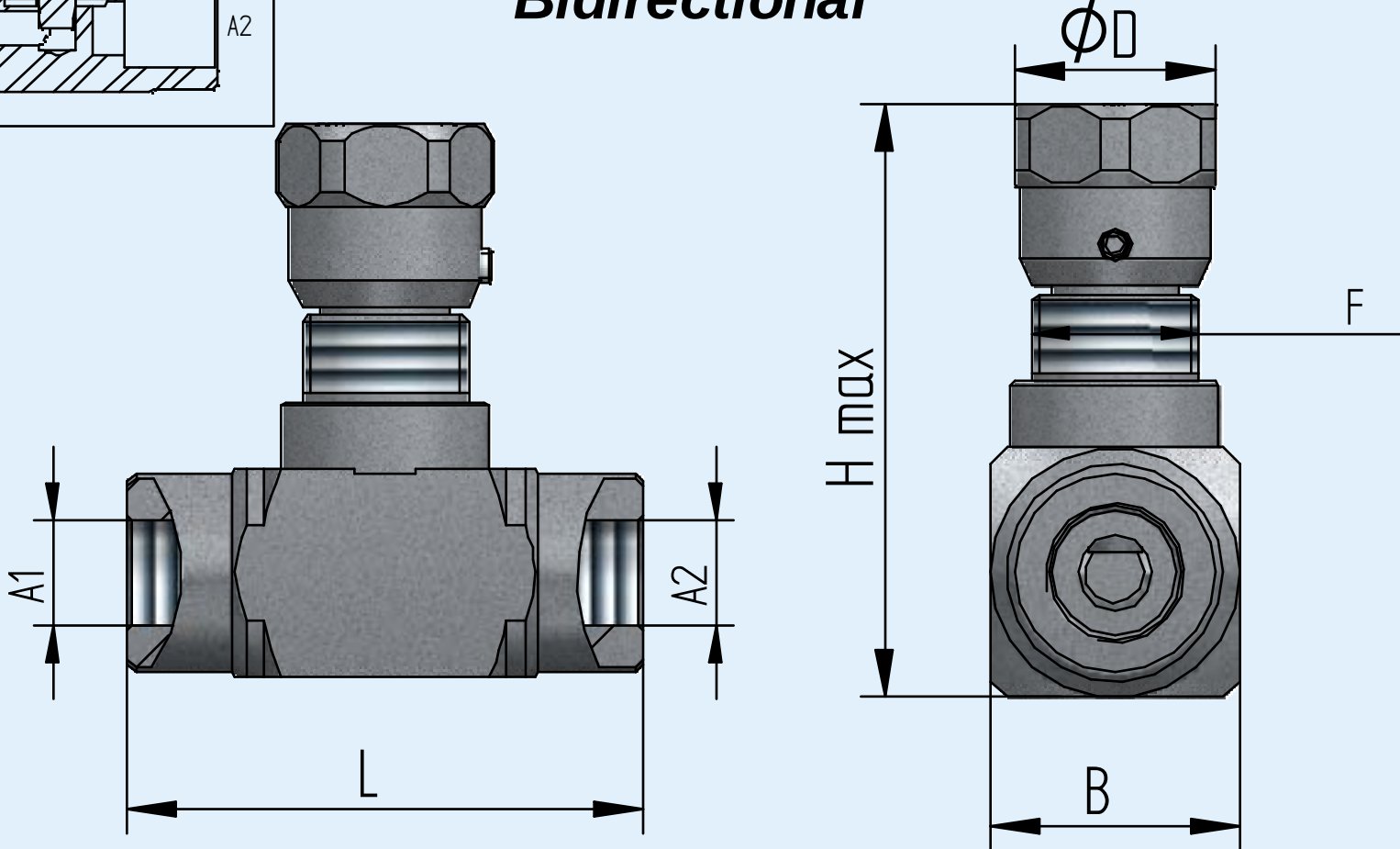
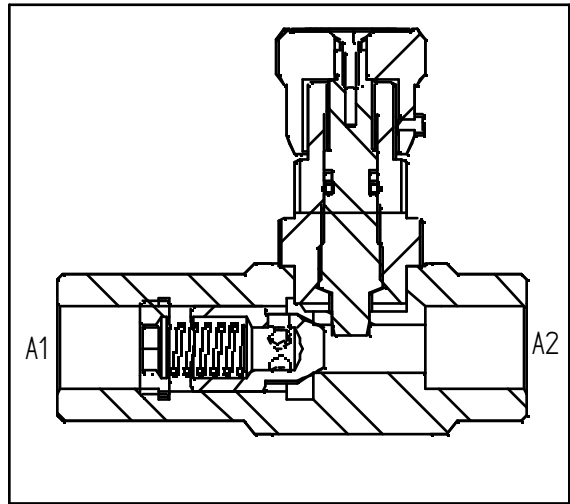


Descrizione Description	AI316ST -G1/4		AI316ST -G3/8		AI316ST -G1/2	
	B	U	B	U	B	U
Pressione massima - Max pressure Bar	400		400		400	
Portata - Flow Lt/min	15		30		50	
Peso - Weight Kg	0,34	0,38	0,33	0,50	0,45	0,55
A1 - A2	1/4 GAS		3/8 GAS		1/2 GAS	
L	62	72	62	83	70	94
B	25		25		30	
D	Ø 30		Ø 30		Ø 30	
H	85		85		85	
F	M20x1		M20x1		M20x1	
Materiale corpo - Body material	AISI316					



Bidirezionale
-
Bidirectional

Unidirezionale
-
Unidirectional



Codice di ordinazione
Ordering code

AI316ST

Option 1	B
	U

-

Option 2	G1/4
	G3/8
	G1/2

Option 1

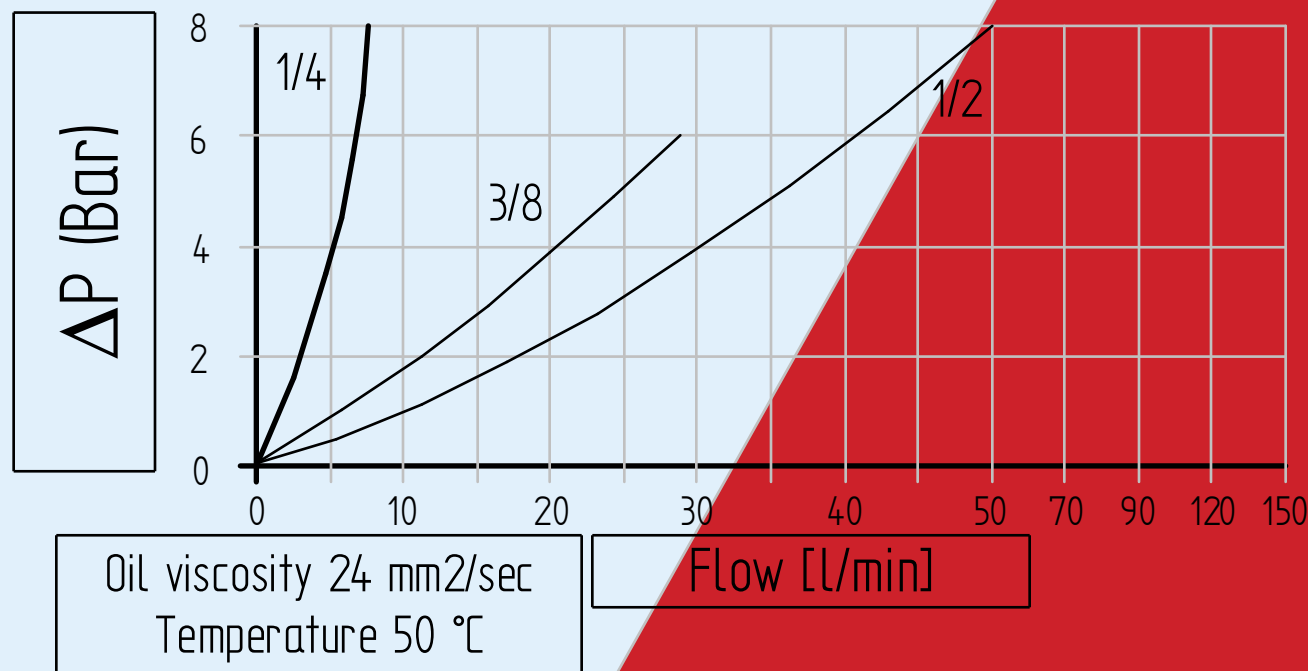
B	Regolazione flusso bidirezionale Bidirectional flow control
U	Regolazione flusso unidirezionale Unidirectional flow control

Option 2

Thread A1 - A2

G1/4	Filetto 1/4 Gas - Thread 1/4 Gas
G3/8	Filetto 3/8 Gas - Thread 3/8 Gas
G1/2	Filetto 1/2 Gas - Thread 1/2 Gas

Perdite di carico
Pressure drops curve





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