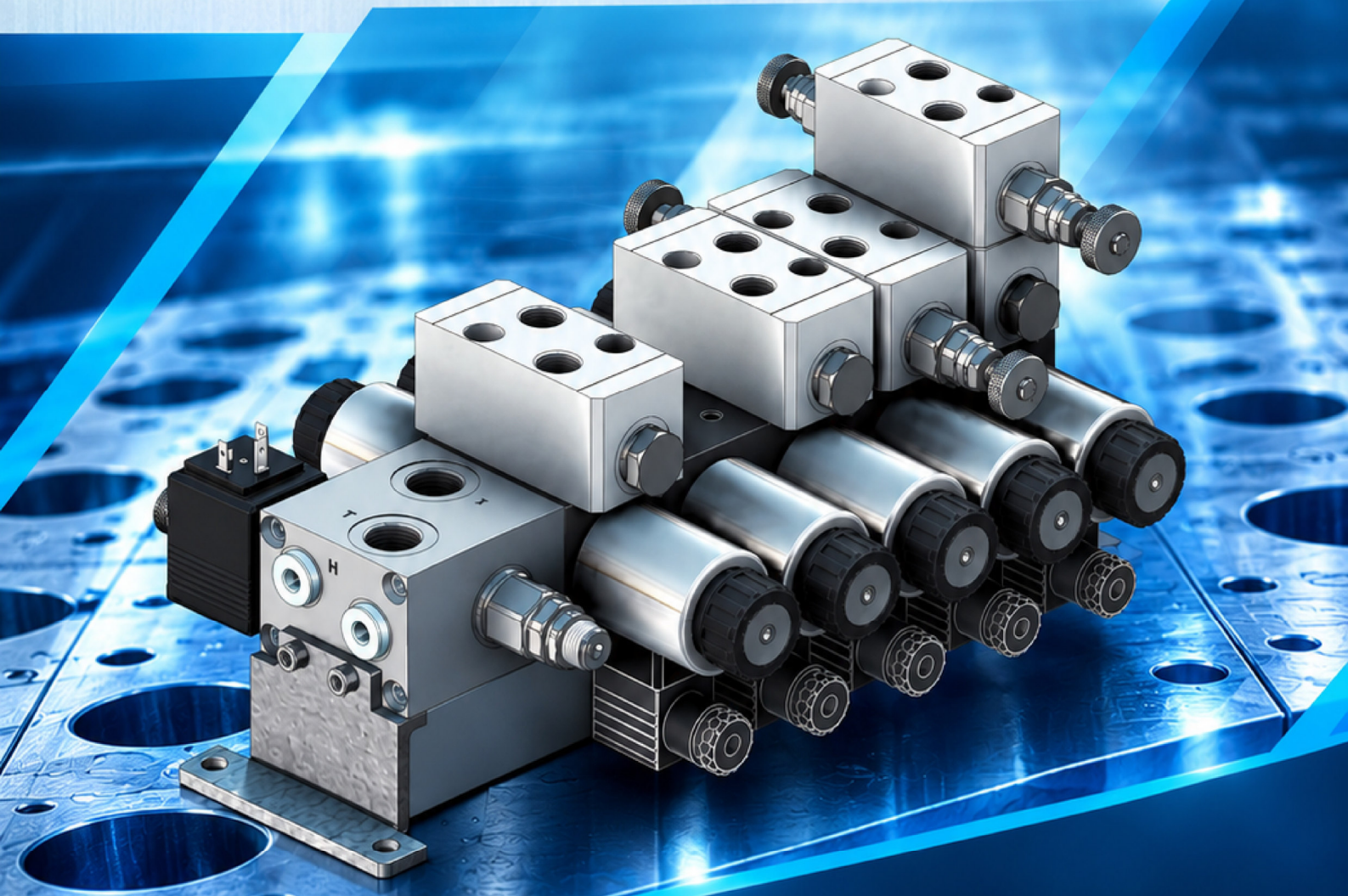
HYDRO FACTORY

CATALOGO GENERALE
GENERAL CATALOGUE

COMPONENTI OLEODINAMICI
OLEOHYDRAULIC COMPONENTS



Tailor-made
Fluid Technology

INDICE – SUMMARY

SEZIONE A Monoblocchi CETOP-03 in ghisa – Cast iron CETOP-03 blocks

- MB 13.....A01
- MBS 13.....A01/01
- MB 23.....A02
- MB 23RS14.....A02/01
- MB 33.....A03
- MBS 33.....A03/01
- MB33 RP.....A04
- MB 33 VL.....A05
- MB 33 VH.....A05/01
- MBM 13.....A06

SEZIONE B Monoblocchi CETOP-03/05 alluminio - Aluminum CETOP-03/05 blocks

- MBA 13.....B01
- MBAS 13.....B01/01
- MBA 23.....B02
- MBA 23RS14.....B02/01
- MBA 33.....B03
- MBAS 33.....B03/01
- MBA 33 VL.....B04
- MBA 33 VH.....B04/01
- MBA 33 RP.....B05
- SUMB 03.....B06
- MBA 35.....B07

SEZIONE C Monoblocchi CETOP-05 in ghisa - Cast iron CETOP-05 blocks

- MB 15……C01
- MB 15 S340M……C01/01
- MB 25……C02
- MB 35……C03

SEZIONE D Piastre componibili CETOP-03 - Packing plate CETOP-03

- PC33B……D01
- PC33BM……D02
- PC33I……D03
- PC33C……D04
- PC33B/1……D05
- PC34BM……D06
- PC34I……D07
- PC34IAR……D07/01
- PC34C……D08
- PCA33BM……D09
- PCA33I……D10
- PCA33C……D11

SEZIONE E Piastre singole CETOP-03/05 - Single subplate CETOP-03/05

- PS3R……E01
- PS3RS……E02
- PS3SS……E03
- PSQA3S38……E03/01
- PS3SS12……E04
- PS3SS122……E04/01
- PS3RS382……E05
- PS3RS12……E06
- PSA3RS382……E07
- PS5R……E08
- PS5RS……E09

- PS5SS……E10
- PS5 342……E11
- PSA5SS342……E11/01
- PSA5RS342……E11/02
- PSA5RSS34……E11/03
- PS5RS34RV12078……E11/sp
- PS7RS……E12
- PS7RR100……E13
- PS7SS100……E14
- PS8RS114……E15

SEZIONE F Piastre di collegamento,chiusura e riduzione - Closing, connection and reducing plate

- AM3……F01
- AM3S……F02
- AM5……F03
- DC03……F04
- RP05/03……F05
- DC05……F06
- DC02……F07

SEZIONE G Valvole modulari CETOP - Modular valves CETOP

- MRV3……G01
- MRV3AB……G02
- MRV3P……G03
- MRV334……G03/01
- MECV3……G04
- MECVD3……G05
- EMCV3……G06
- EMV3FS……G07
- EMV3……G08
- MRV5AB……G09
- MRV5P……G10
- EMV5……G11
- MQR3……G12

- MFR03……..G13
- BRQ03……G14
- MECVD5……..G15
- EMCV5……..G16
- EMV7FS……..G17
- HFOV50-CT3……..G18
- HFOV120-CT5……G19
- MRRP3……G20

SEZIONE H Piastre per minicentraline - Plates for mini power-packs

- PB3MCOM2……H01
- PC3MCO……H02
- PC2MCO……H02/01
- PC3MCOCV……...H03
- PC3MCORV……H03/A
- PC3MCOD……..H04
- PC3MCH……..H05
- PC3MCR……..H06
- PC3MCRD28……..H07

SEZIONE I Pressostati e adattatori - Pressure Switch and Adapter

- PS……..I01
- FF-MF-14PS……I02
- INL-PS……..I03
- AM3PS……..I04
- AM5PS……..I05

SEZIONE L Elementi logici e cappellotti di chiusura DIN-24342 - Logic elements and closing covers DIN-24342

- EL-16/25/32……L01
- CE16……..L02
- CE25/32……..L03

SEZIONE M Cartucce meccaniche

- RV2534……M01
- RV30……M02
- RV3034……M03
- RV5078……M04
- RV8078……M05
- RV80……M06
- RV12078……M07
- CV5034……M08
- CV8078……M09
- CVCG……M10
- CVCRG……M11
- FR4034……M12
- FRU4034……M13
- FRC34……M14

SEZIONE N Valvole ed Elettrovalvole CETOP - Valves and Electrovalves CETOP

- EPSV……N01
- EVGP03R11……N02
- DCV06……N03
- DCV10……N04
- DCV04……N05

SEZIONE O Valvole di sicurezza - Safety valves

- ESV14/38……O01
- ESV12/34……O02
- ESV100……O03
- ESVSE14/38……O04
- ESVSE12/34……O05
- VMT0802……O05/01

SEZIONE P Cartucce elettriche - Solenoid cartridges

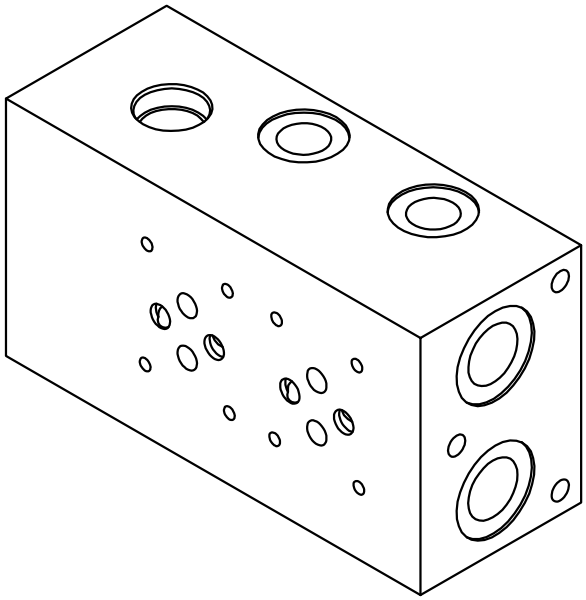
- ESC40NC……P01
- ESCM40NC……..P02
- ESC40NO……..P03
- ESCM40NO……..P04
- ESC70……..P07
- BESC-18……..P05
- BESC-22……..P06
- BESC-20.5……..P08

SEZIONE Q Filtri modulari e Componenti filtrazione - Modular filter and Filtration components

- FPM03……Q01

Informazioni tecniche - Technical information

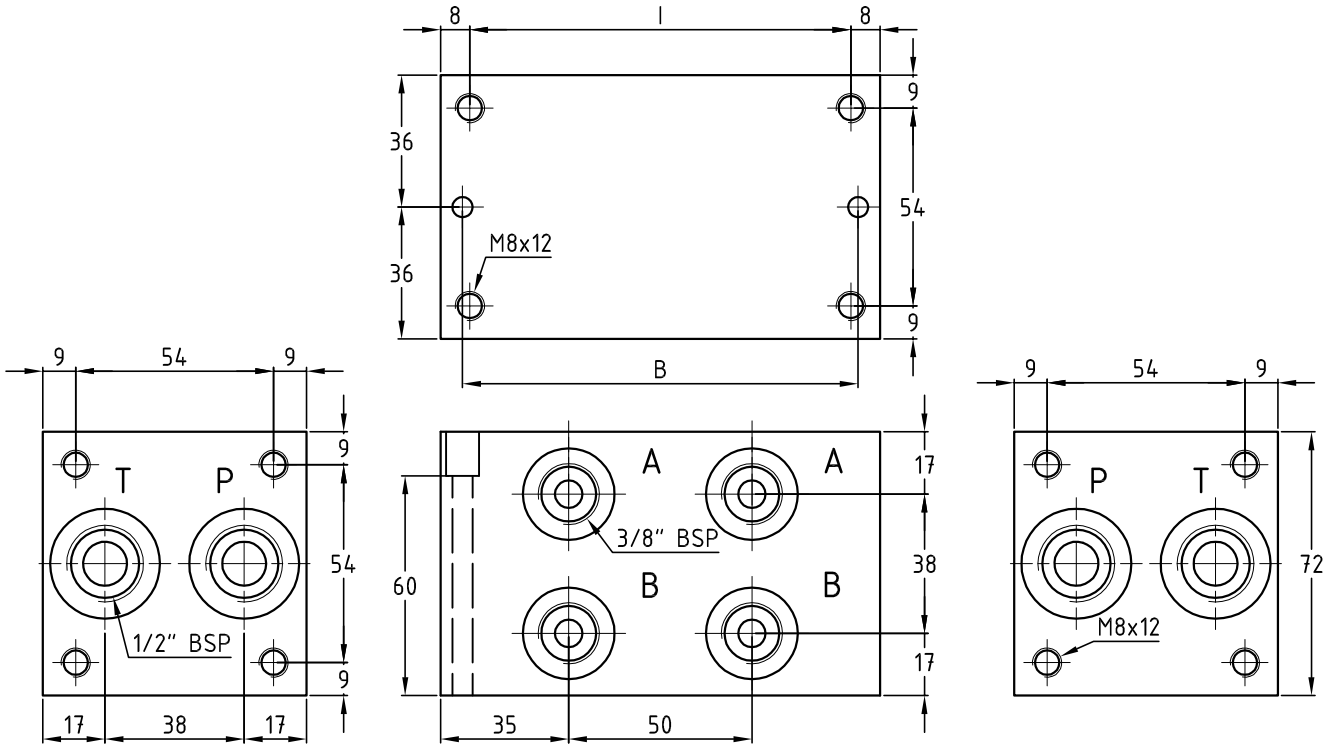
Monoblocchi Cetop 03 in ghisa
Cast iron Cetop 03 blocks



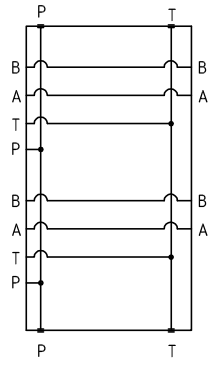
Sezione A
Section A

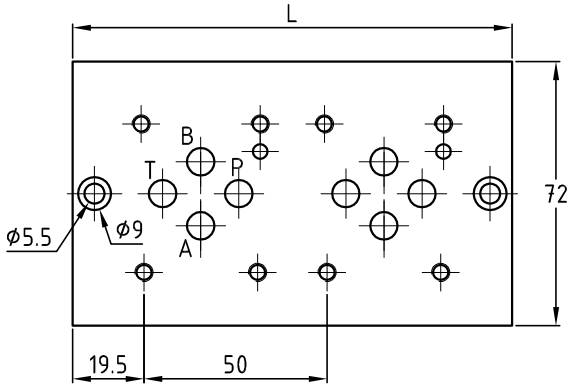
MB 13

Piastre multiple in ghisa per elettrovalvole Cetop 03 con utilizzi A-B laterali
Manifold in cast iron for electrovalves Cetop 03 with A-B side ports



Hydraulic diagram





Dimension table

N° Stat.	L	l	B	Kg
1	70	54	58	2
2	120	104	108	3.5
3	170	154	158	5
4	220	204	208	6.5
5	270	254	258	8
6	320	304	308	9.5
7	370	354	358	11
8	420	404	408	12.5
9	470	454	458	14
10	520	504	508	15.5

Esempio di ordinazione - Ordering code

MB13 / * S 38 0

Monoblocco in ghisa Cetop 03
Block in cast iron Cetop 03

N° di posizioni
Stations number

S = attacchi A-B laterali
S = side ports A-B

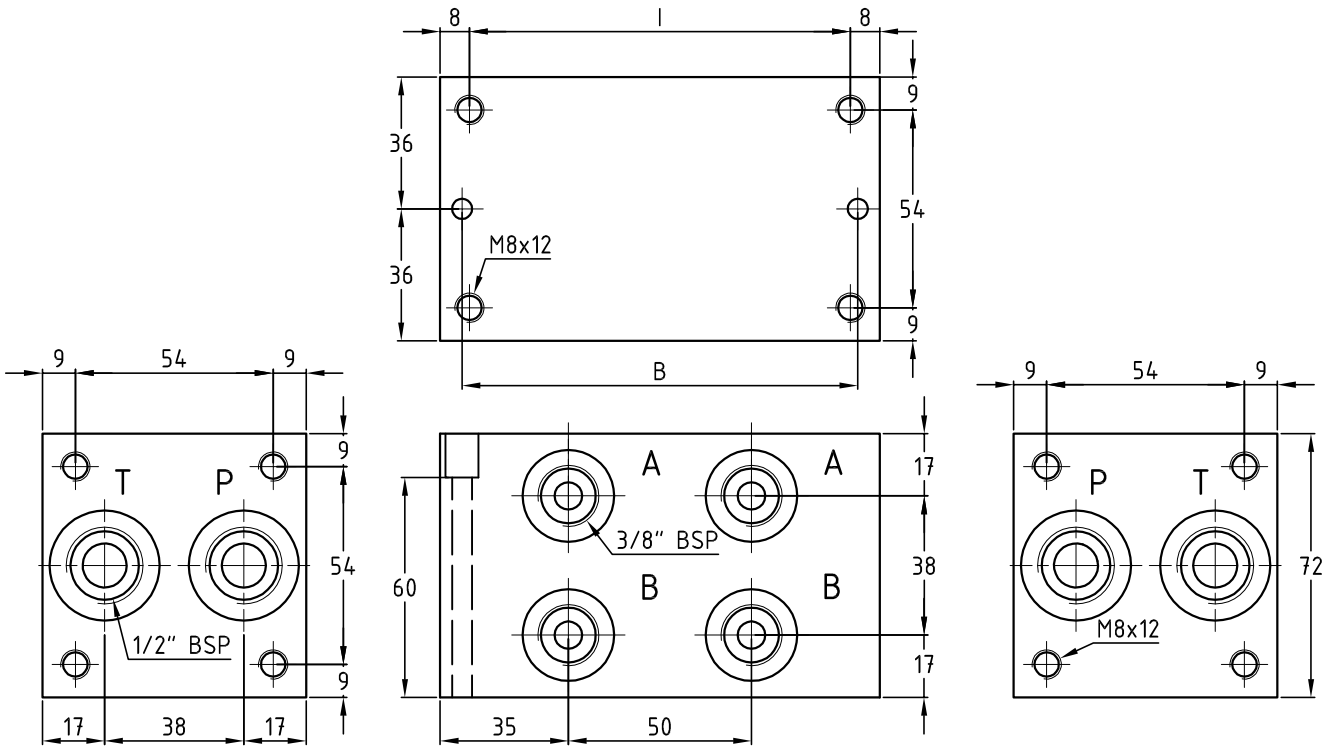
0 = senza valvola di max.
0 = without relief valve

38 = attacchi da 3/8" BSP
38 = ports 3/8" BSP

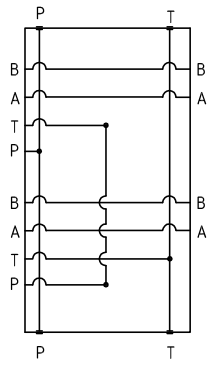
A01

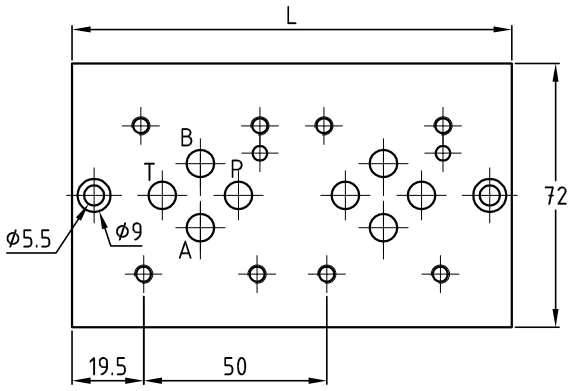
MBS 13

Piastre multiple in ghisa per elettrovalvole Cetop 03 con utilizzi A-B laterali
Manifold in cast iron for electrovalves Cetop 03 with A-B side ports



Hydraulic diagram





Dimension table

N° Stat.	L	l	B	Kg
2	120	104	108	3.5
3	170	154	158	5
4	220	204	208	6.5
5	270	254	258	8
6	320	304	308	9.5

Esempio di ordinazione - Ordering code

MBS13 / * S 38 0

Monoblocco in ghisa Cetop 03 coll. serie
Block in cast iron Cetop 03 conn. series

N° di posizioni
Stations number

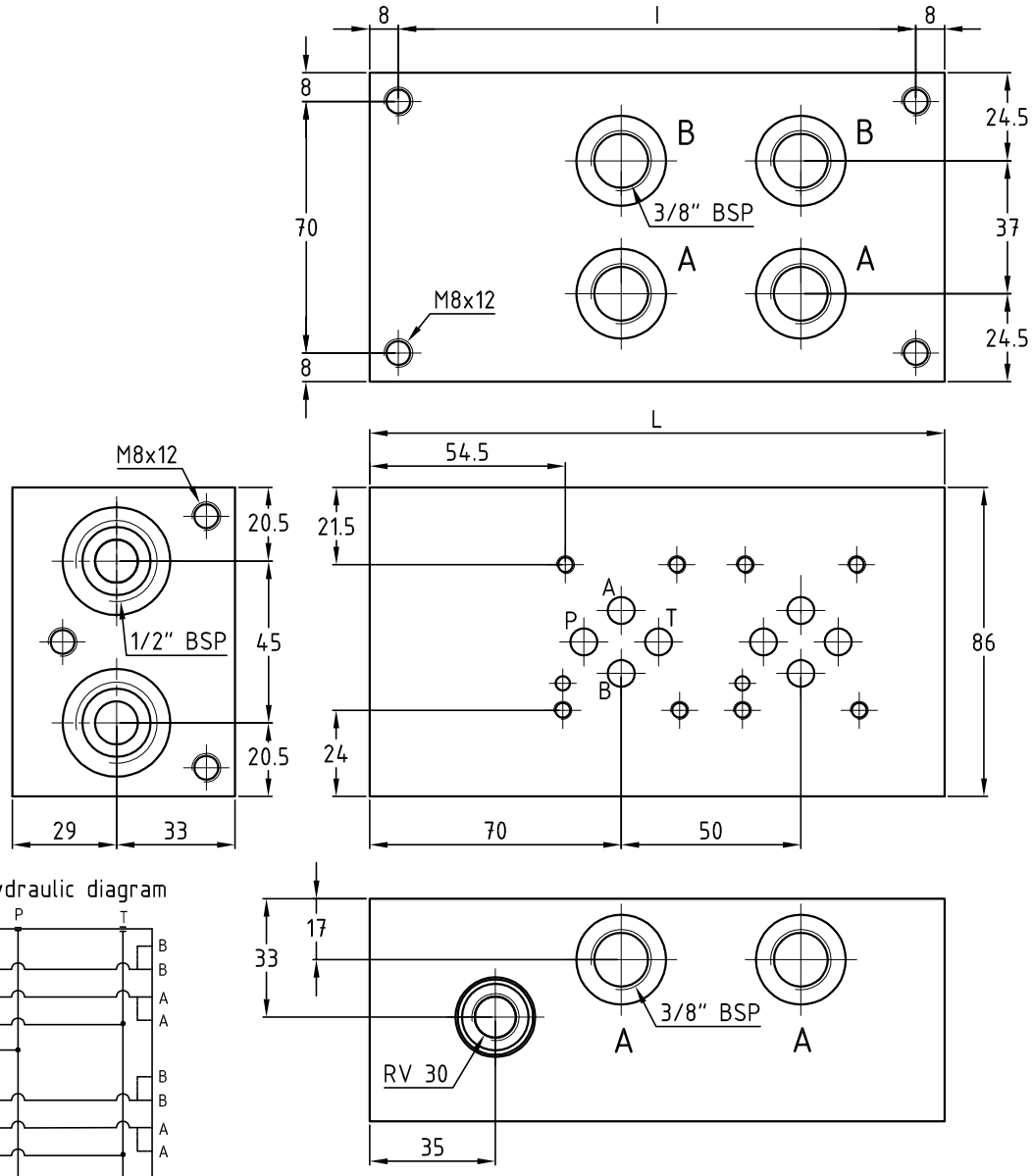
S = attacchi A-B laterali
S = side ports A-B

0 = senza valvola di max.
0 = without relief valve

38 = attacchi da 3/8" BSP
38 = ports 3/8" BSP

MB 23

Piastre multiple in ghisa per elett. Cetop 03 con utilizzi A-B posteriori o posteriori e laterali
Manifold in cast iron for electrovalves Cetop 03 with A-B rear ports or rear and side ports



Dimension table

N° Stat.	L	l	Kg
1	110	94	3.3
2	160	144	4.7
3	210	194	6.1
4	260	244	7.5
5	310	294	8.9
6	360	344	10.3
7	410	394	11.7
8	460	444	13.1
9	510	494	14.5

Hydraulic diagram

Esempio di ordinazione - Ordering code

MB23 / * * ** * *

Su richiesta valvola di massima SAE 10/2
On request relief valve SAE 10/2
(page M04)

Monoblocco in ghisa Cetop 03
Block in cast iron Cetop 03

Y=5÷55 bar A=25÷110 bar B=50÷250 bar
C=100÷350 bar D=100÷420

N° di posizioni
Stations number

0 = senza valvola di max.
0 = without relief valve
1 = pred. per valvola di max. RV 30
1 = prearranged for relief valve RV 30
2 = con valvola di max. RV 30 (pag. M02)
2 = with relief valve RV 30 (page M02)

R = attacchi A-B posteriori
R = rear ports A-B

38 = attacchi da 3/8" BSP
38 = ports 3/8" BSP

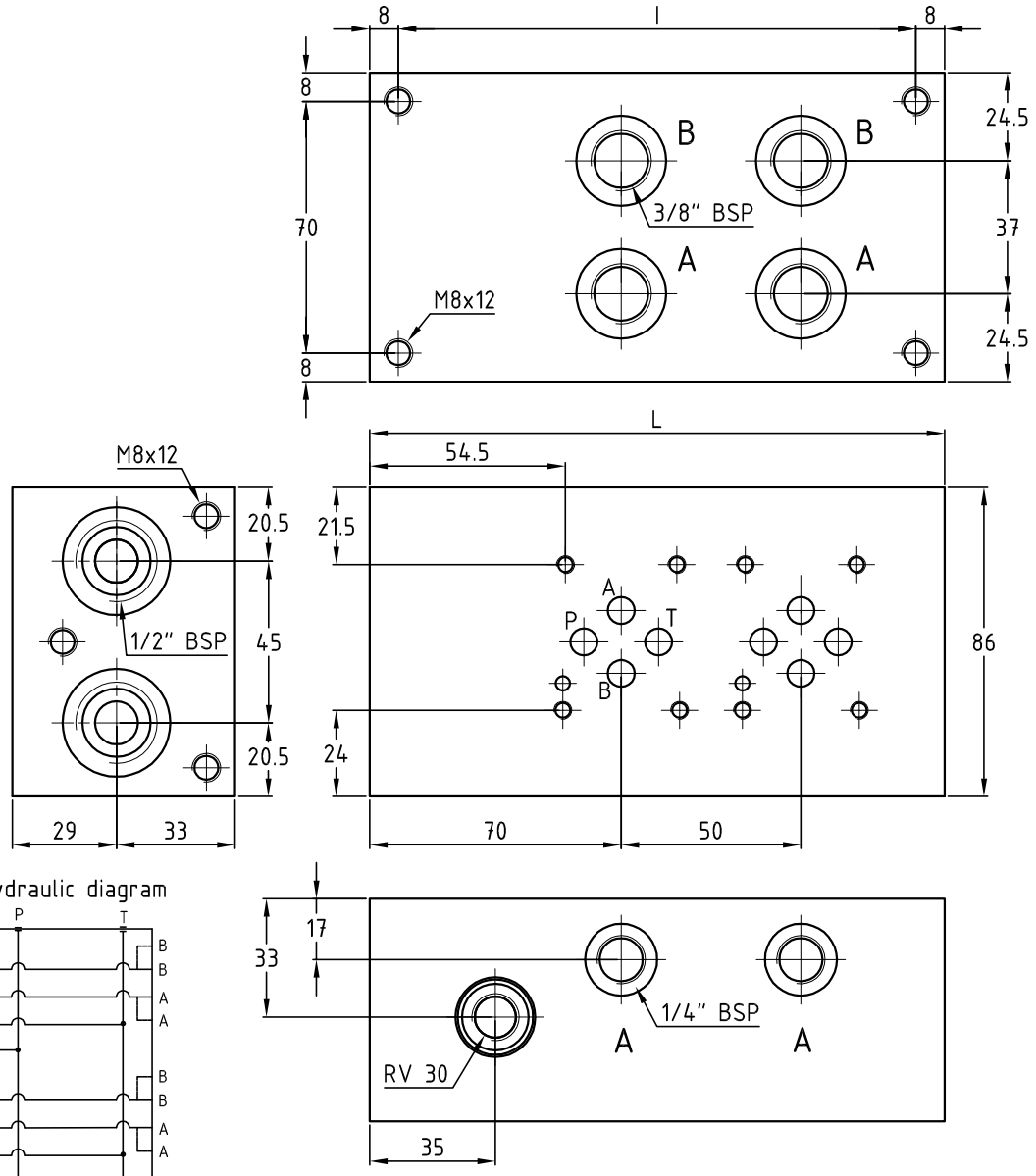
RS = attacchi A-B posteriori e laterali (solo versione 38)
RS = rear and side ports A-B (only 38 version)

12 = attacchi da 1/2" BSP (solo su versione R)
12 = ports 1/2" BSP (only on version R)

MB 23RS14

NEW

Piastre multiple in ghisa per elett. Cetop 03 con utilizzi A-B posteriori e laterali
Manifold in cast iron for electrovalves Cetop 03 with A-B rear and side ports



Dimension table

N° Stat.	L	l	Kg
1	110	94	3.3
2	160	144	4.7
3	210	194	6.1
4	260	244	7.5
5	310	294	8.9
6	360	344	10.3
7	410	394	11.7
8	460	444	13.1
9	510	494	14.5

Hydraulic diagram

Esempio di ordinazione - Ordering code

MB23 / * RS 14 38 ** * *

Su richiesta valvola di massima SAE 10/2
On request relief valve SAE 10/2
(page M04)

Monoblocco in ghisa Cetop 03
Block in cast iron Cetop 03

N° di posizioni
Stations number

RS = attacchi A-B posteriori e laterali
RS = rear and side ports A-B

attacchi laterali 1/4" BSP
side ports 1/4" BSP

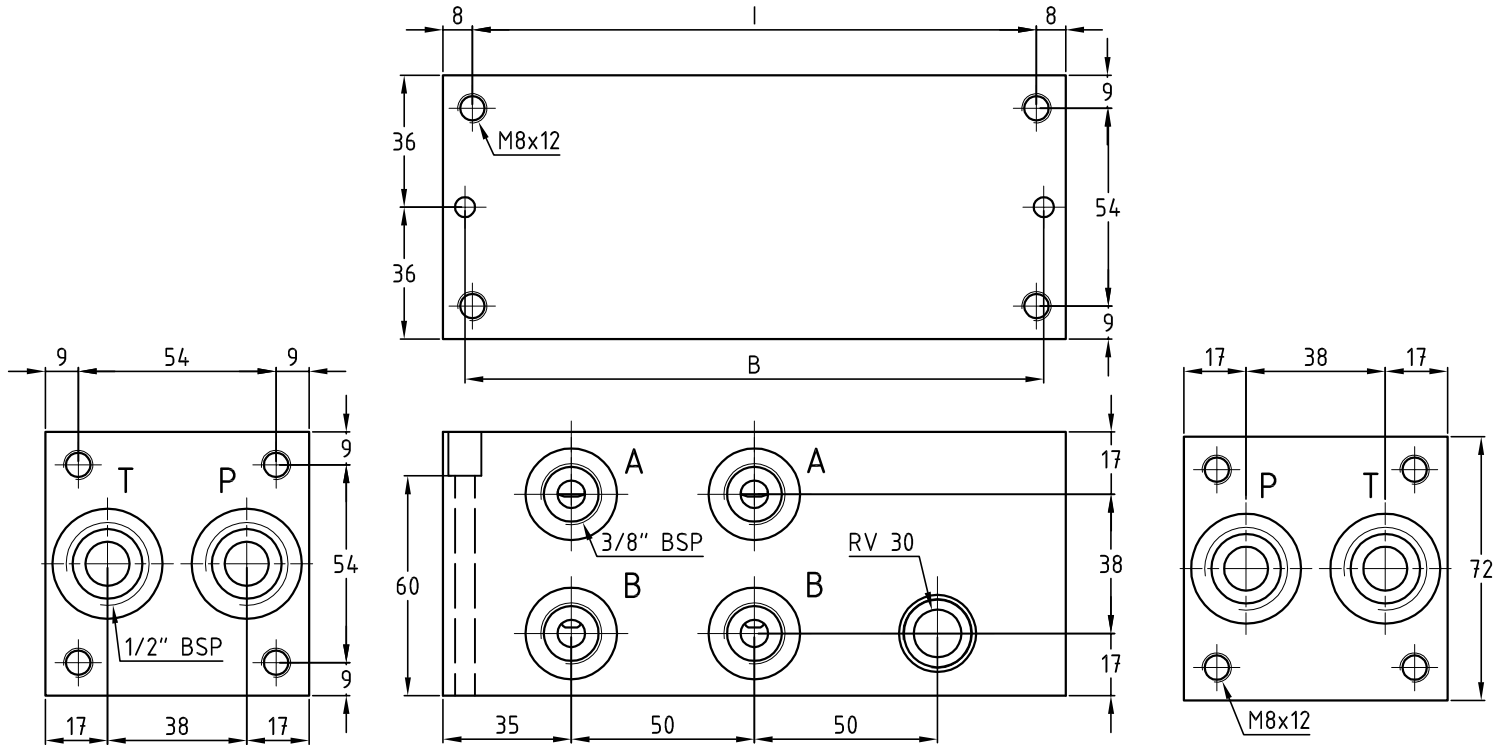
Y=5÷55 bar A=25÷110 bar B=50÷250 bar
C=100÷350 bar D=100÷420

0 = senza valvola di max.
0 = without relief valve
1 = pred. per valvola di max. RV 30
1 = prearranged for relief valve RV 30
2 = con valvola di max. RV 30 (pag. M02)
2 = with relief valve RV 30 (page M02)

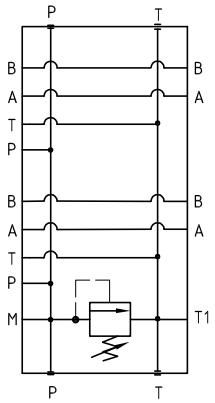
attacchi posteriori 3/8" BSP
rear ports 3/8" BSP

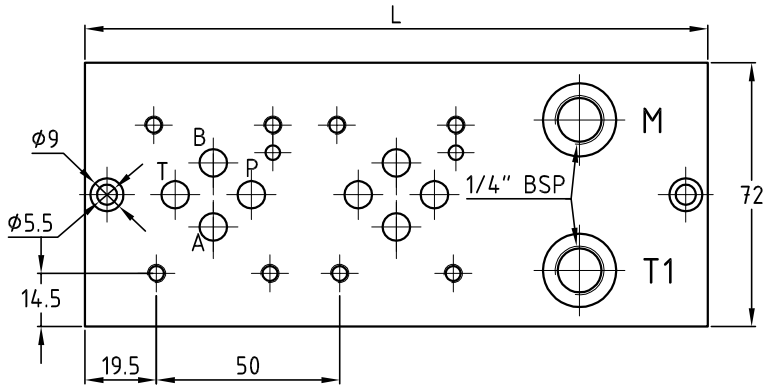
MB 33

Piastre multiple in ghisa per elettrovalvole Cetop 03 con utilizzi A-B laterali
Manifold in cast iron for electrovalves Cetop 03 with A-B side ports



Hydraulic diagram





Dimension table

N° Stat.	L	l	B	Kg
1	120	104	108	3.4
2	170	154	158	4.9
3	220	204	208	6.4
4	270	254	258	7.9
5	320	304	308	9.4
6	370	354	358	10.9
7	420	404	408	12.4
8	470	454	458	13.9
9	520	504	508	15.4
10	570	554	558	16.9

Esempio di ordinazione - Ordering code

MB33 / * S ** * *

Su richiesta valvola di massima SAE 10/2
On request relief valve SAE 10/2
(page M04)

Y=5÷55 bar A=25÷110 bar B=50÷250 bar
C=100÷350 bar D=100÷420 bar (page M02)

1 = pred. per valvola di max. RV 30
1 = prearranged for relief valve RV 30
2 = con valvola di max. RV 30
2 = with relief valve RV 30

38 = attacchi da 3/8" BSP
38 = ports 3/8" BSP
12 = attacchi da 1/2" BSP (su richiesta)
12 = ports 1/2" BSP (on request)

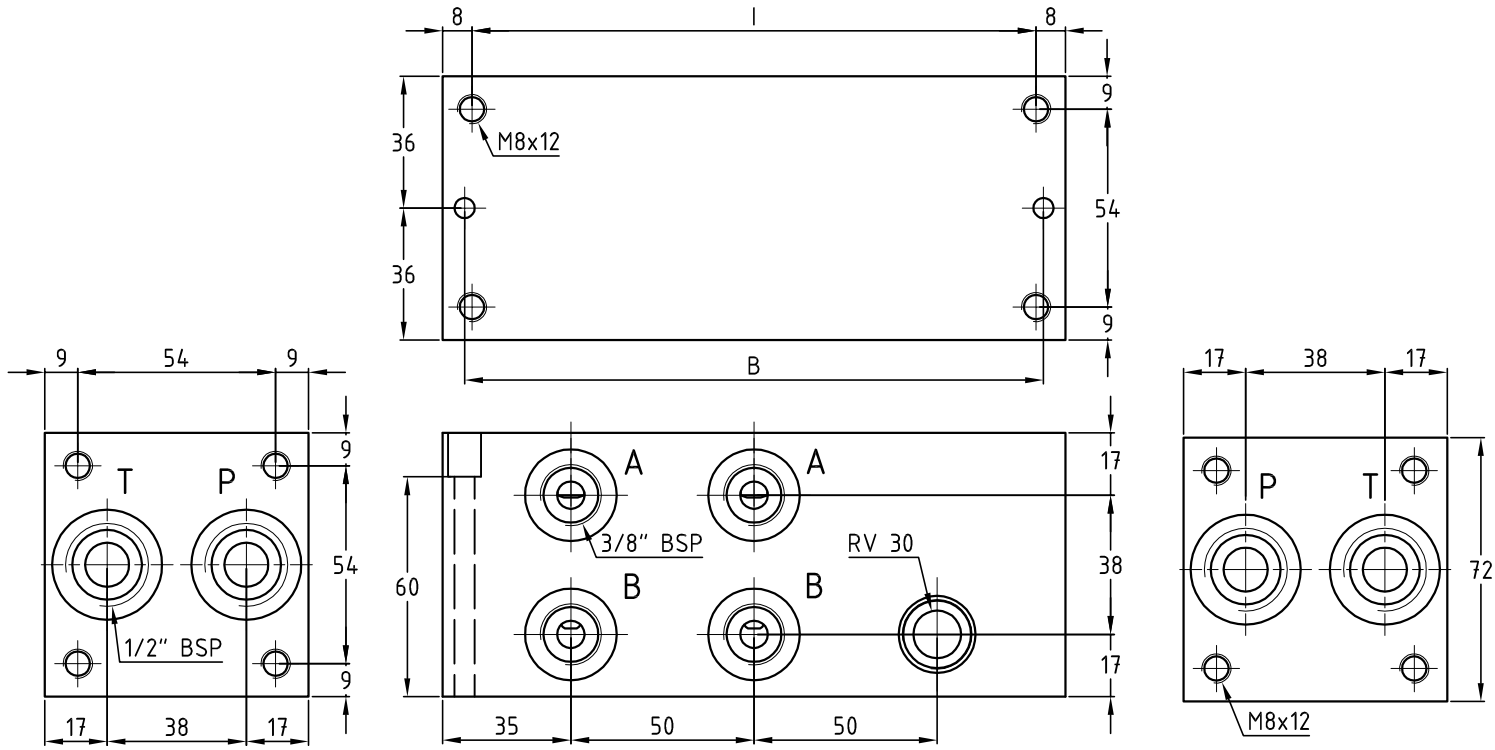
Monoblocco in ghisa Cetop 03
Block in cast iron Cetop 03

N° di posizioni
Stations number

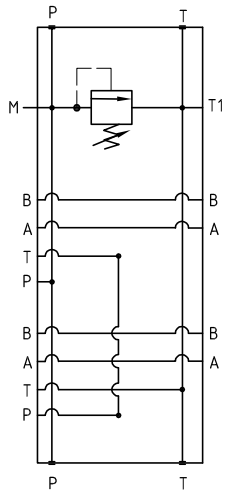
S = attacchi A-B laterali
S = side ports A-B

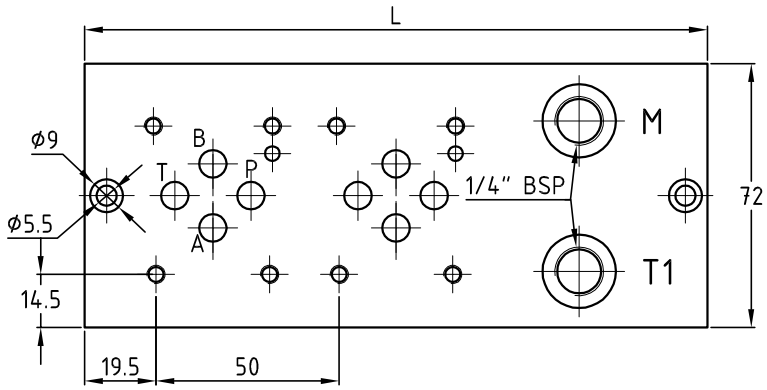
MBS 33

Piastre multiple in ghisa per elettrovalvole Cetop 03 con utilizzi A-B laterali
Manifold in cast iron for electrovalves Cetop 03 with A-B side ports



Hydraulic diagram





Dimension table

N° Stat.	L	l	B	Kg
2	170	154	158	4.9
3	220	204	208	6.4
4	270	254	258	7.9
5	320	304	308	9.4
6	370	354	358	10.9

Esempio di ordinazione - Ordering code

MBS33 / * S ** * *

Monoblocco in ghisa Cetop 03 coll. serie
Block in cast iron Cetop 03 series conn.

N° di posizioni
Stations number

S = attacchi A-B laterali
S = side ports A-B

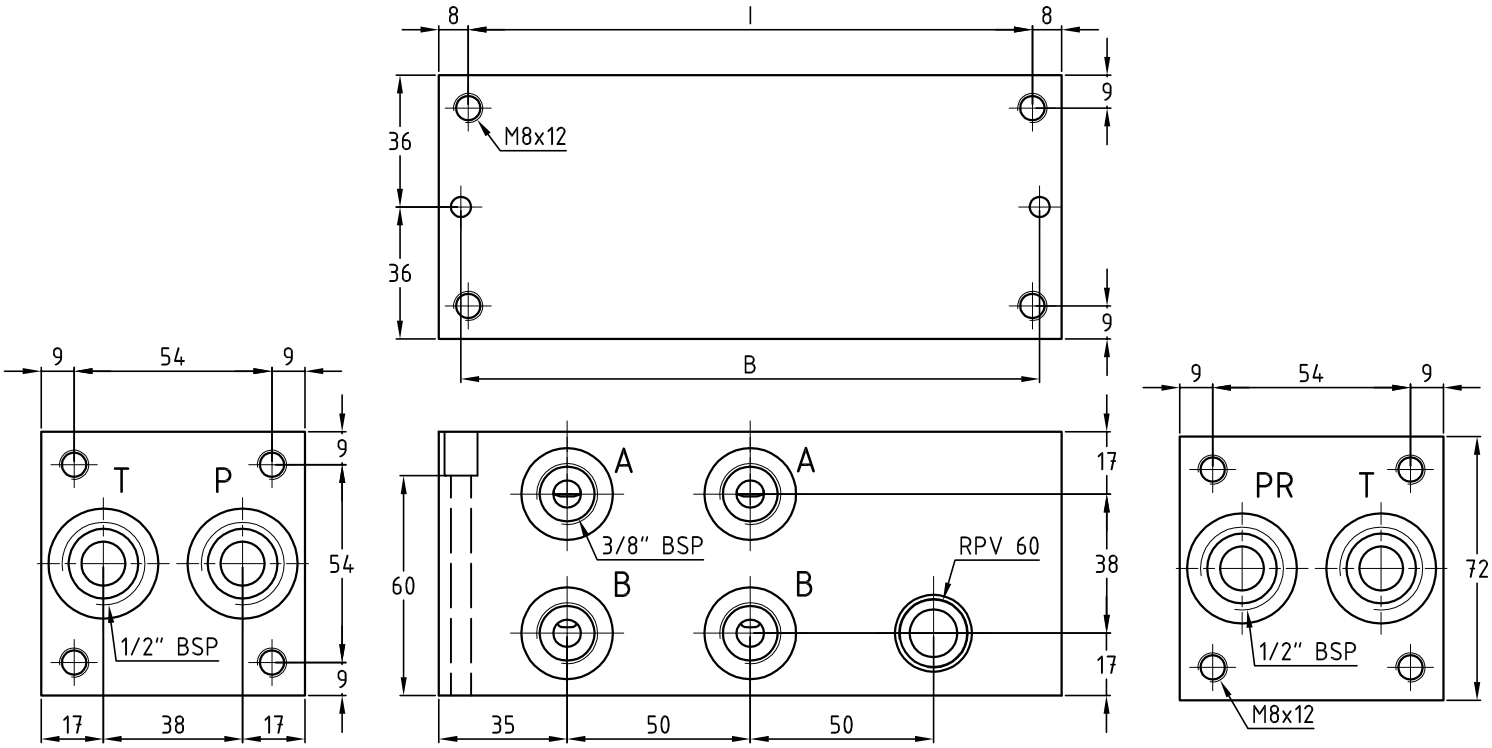
Y=5÷55 bar A=25÷110 bar B=50÷250 bar
C=100÷350 bar D=100÷420 bar (page M02)

1 = pred. per valvola di max. RV 30
1 = prearranged for relief valve RV 30
2 = con valvola di max. RV 30
2 = with relief valve RV 30

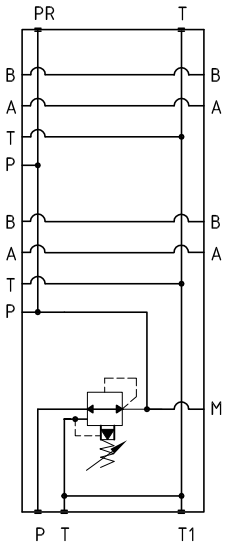
38 = attacchi da 3/8" BSP
38 = ports 3/8" BSP
12 = attacchi da 1/2" BSP (su richiesta)
12 = ports 1/2" BSP (on request)

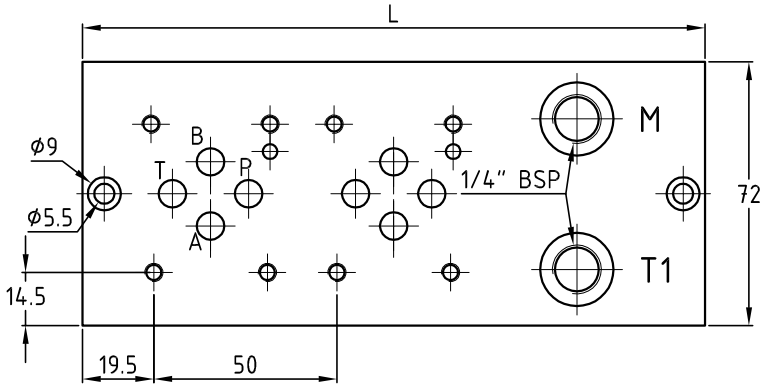
MB 33 RP

Piastre multiple in ghisa per elettr. Cetop 03 con utilizzi A-B lat. e valv. riduttrice pressione
Manifold in cast iron for electrov. Cetop 03 with A-B side ports with reducing pressure valve



Hydraulic diagram





Dimension table

N° Stat.	L	l	B	Kg
2	170	154	158	4.9
3	220	204	208	6.4
4	270	254	258	7.9
5	320	304	308	9.4
6	370	354	358	10.9
7	420	404	408	12.4
8	470	454	458	13.9

Esempio di ordinazione - Ordering code

MB33 / * S 38 RP *

Monoblocco in ghisa Cetop 03
Block in cast iron Cetop 03

N° di posizioni
Stations number

S = attacchi A-B laterali
S = side ports A-B

38 = attacchi da 3/8" BSP
38 = ports 3/8" BSP

Con valvola riduttrice di pressione sae 10/3
With reducing pressure valve

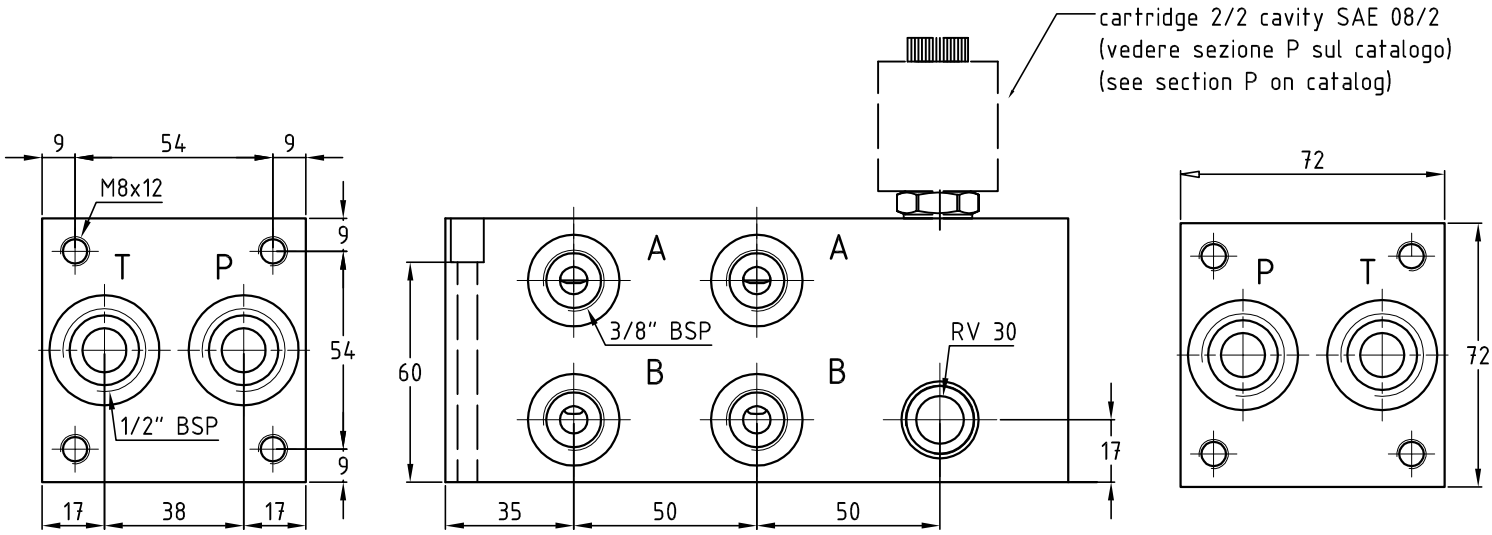
Q = 60 lt/min

6 = P max 63 bar
10 = P max 100 bar
16 = P max 160 bar
25 = P max 250 bar
35 = P max 350 bar

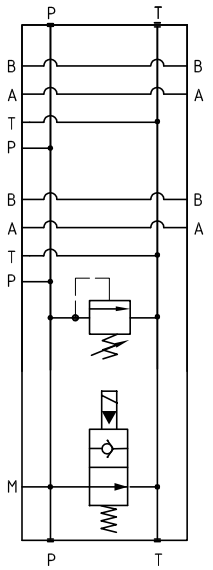
MB 33 VL

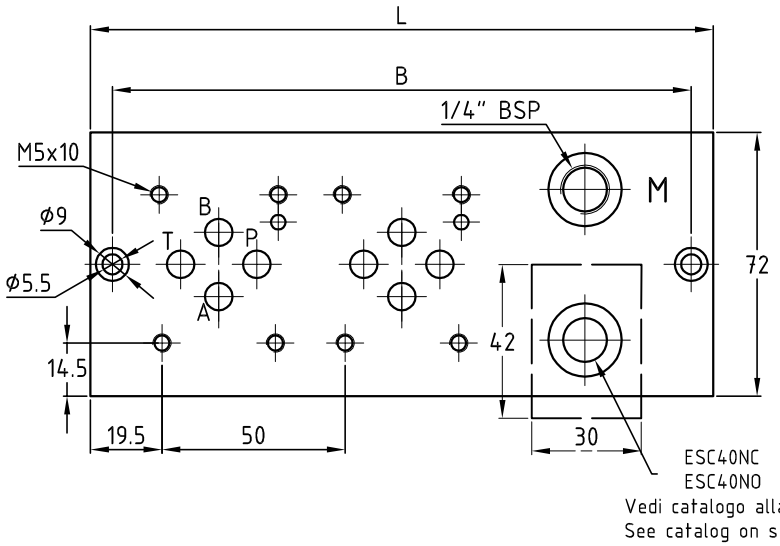
Piastra mult. in ghisa per elettrovalvole cetop 03 con utilizzi A-B laterali, valvola di massima RV 30 e valvola a comando cavità SAE.

Manifold in cast iron for electrovalves Cetop 03 with A-B side ports, relief valve RV 30 and SAE cartridge valve 2 way 2 position



Schema idraulico con valvola NO
Hydraulic diagram with cartridge valve NO





Dimension table

N° Stat.	L	B	Kg
1	120	108	1.3
2	170	158	2.0
3	220	208	2.7
4	270	258	3.4
5	320	308	4.1
6	370	358	4.8
7	420	408	5.5
8	470	458	6.2
9	520	508	6.9

Esempio di ordinazione - Ordering code

MB33 VL/ * S ** ** 2 *

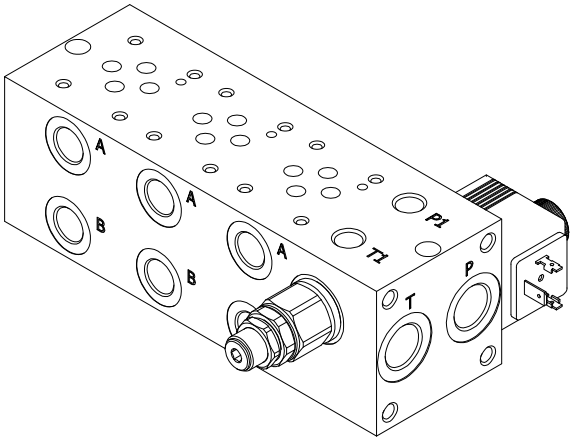
- MB33 VL/ — Monoblocco in ghisa Cetop 03 con venting / Cast iron block Cetop 03 with venting
- * — N° di posizioni / Stations number
- S — S = attacchi A-B laterali / S = side ports A-B
- ** — 12=12VDC 24=24VDC 110=110VDC 220=220VDC
- ** — NC = Norm. chiusa NO = Norm. aperta / NC = Norm. close NO = Norm. open
- 2 — 2 = con valvola di max. RV 30 / 2 = with relief valve RV 30
- * — Y=5÷55 bar A=25÷110 bar B=50÷250 bar C=100÷350 bar D=100÷420 bar (page M02)

Vedere sezione P05 (See Section P05)

MB 33 VH

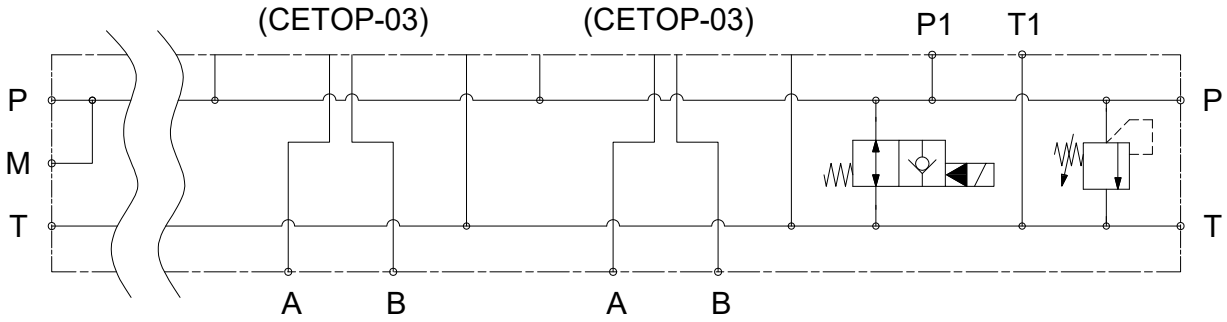
Piastra multipla in acciaio per Valvole Cetop-03, con utilizzi laterali, predisposta per elettrovalvola 2/2 e valvola limitatrice di pressione a cartuccia.

Steel multi-plate for Cetop-03 Valves, with side ports, prearranged for 2/2 solenoid valve and pressure relief valve cartridge style.



DATI TECNICI *TECHNICAL DATA*	
Portata max / Max flow-rate	60 Lt/min
Pressione max di lavoro / Max working pressure	350 bar
Temp. olio raccomandata / Recommended oil temp.	-30 / +100 °C
Filtrazione olio raccom. / Recomm. oil cleanliness	18/16/13 ISO-4406
Tipo Bobina - Connettore / Coil - Connector type	22W - DIN43650
Corpo in Acciaio fosfatato / Phosphated Steel body (standard)	
Corpo in Acciaio nichelato / Nichel-coated Steel body (on request)	

PORTE *PORTS*	
P - T	G1/2"
A - B	G3/8"
P1 - T1 - M	G1/4"



Codice di ordinazione - *Ordering code*

MB33VH/ * S ** NO ** 2 *

N° stazioni Cetop-03
N° Cetop-03 stations

S = porte A-B laterali
S = side A-B ports

38 = porte A-B G3/8" (standard)
38 = A-B ports G3/8" (standard)

12 = porte A-B G1/2" (a richiesta)
12 = A-B ports G1/2" (on request)

NO = elettrovalvola 2/2 normalmente aperta
NO = 2/2 normally open solenoid valve

12 = 12 Vdc (EV 2/2)
24 = 24 Vdc (EV 2/2)
110 = 110 Vac (EV 2/2)
220 = 220 Vac (EV 2/2)

2 = con Valvola limitatrice
2 = with Relief valve

Y (5-110 bar)
A (10-180 bar)
B (10-250 bar)
C (50-350 bar)

(Vedi pag. M05)
(See pag. M05)

MB 33 VH

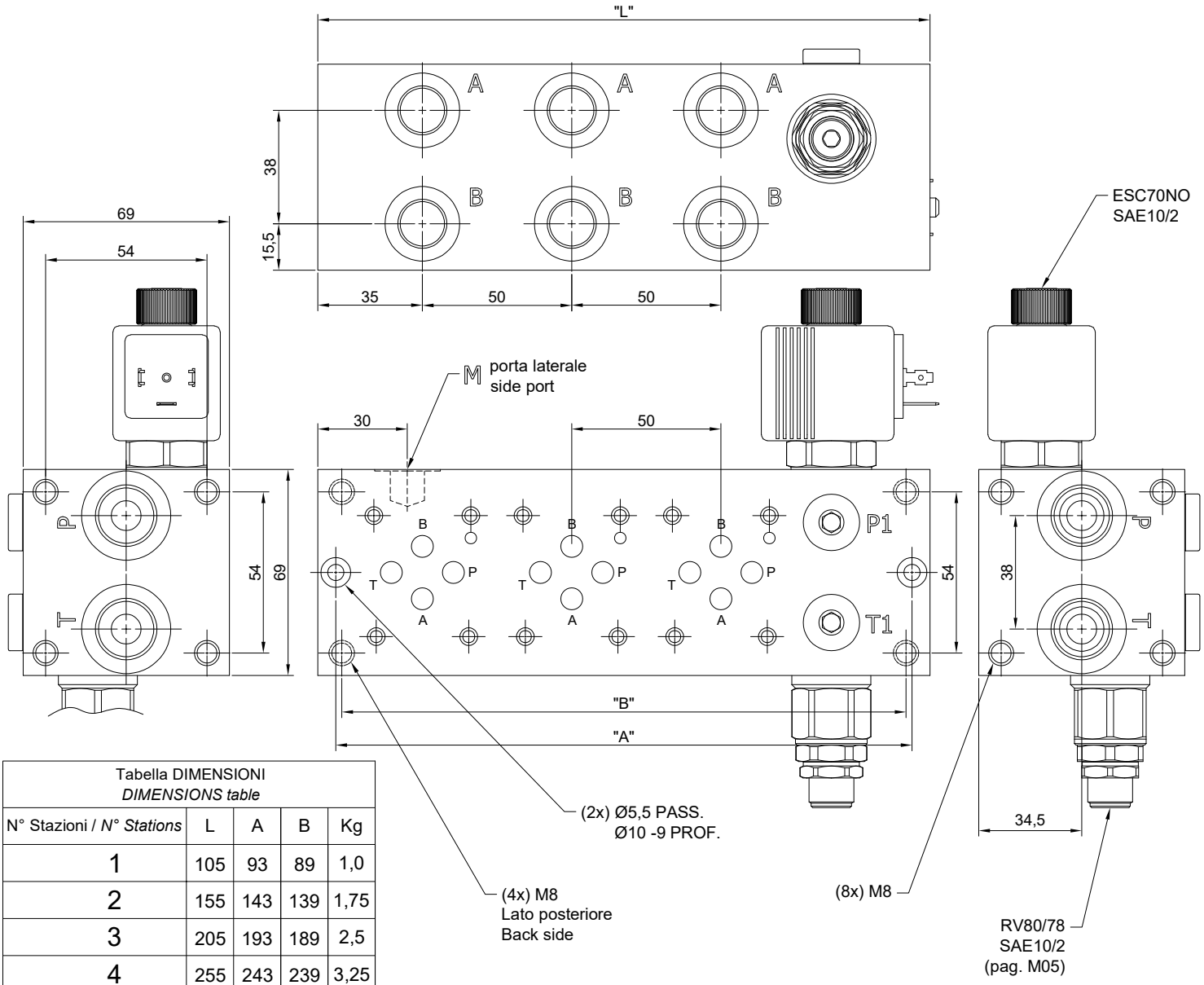
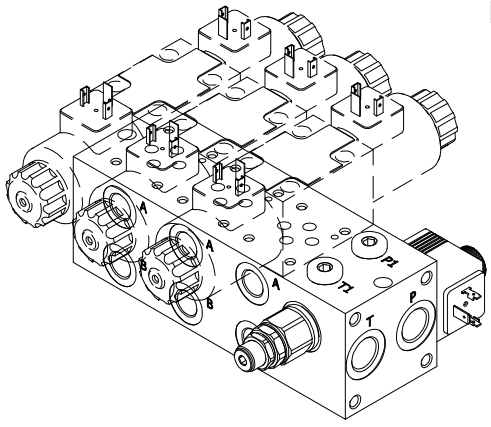
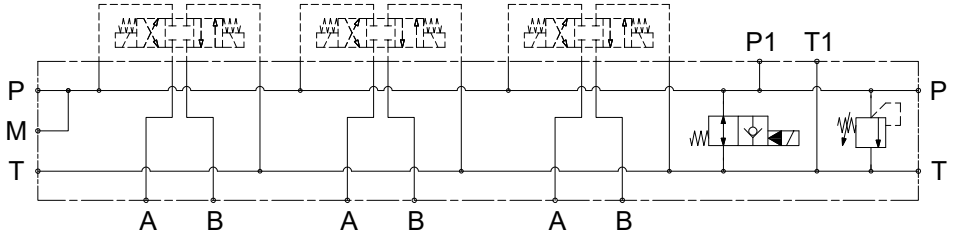


Tabella DIMENSIONI *DIMENSIONS table*				
N° Stazioni / *N° Stations*	L	A	B	Kg
1	105	93	89	1,0
2	155	143	139	1,75
3	205	193	189	2,5
4	255	243	239	3,25
5	305	293	289	4,0
6	355	343	339	4,75
7	405	393	389	5,5
8	455	443	439	6,25
9	505	493	489	7,0

PORTE *PORTS*	
P - T	G1/2"
A - B	G3/8"
P1 - T1 - M	G1/4"

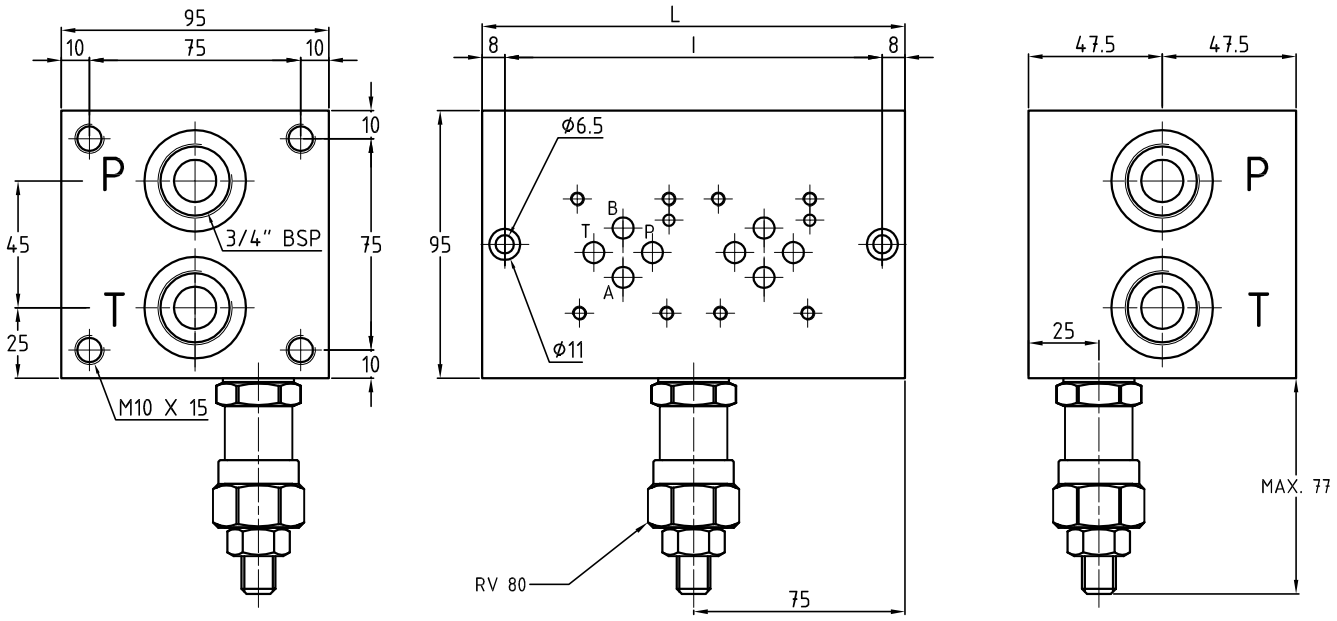
Esempio di applicazione / *Application example*



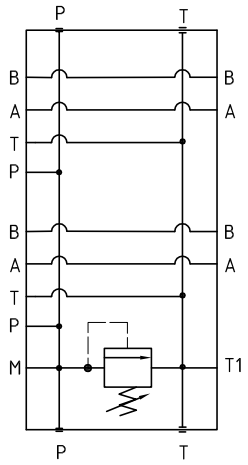


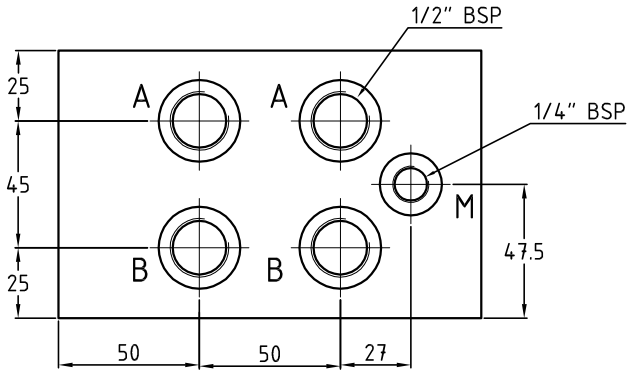
MBM 13

Piastre multiple in ghisa per elettrovalvole Cetop 03 con utilizzi A-B laterali
Manifold in cast iron for electrovalves Cetop 03 with A-B side ports



Hydraulic diagram





Dimension table

N° Stat.	L	l	Kg
1	100	84	6.3
2	150	134	9.6
3	200	184	12.9
4	250	234	16.2
5	300	284	19.5
6	350	334	22.8

Esempio di ordinazione - Ordering code

MBM13 / * S 12 * *

Monoblocco in ghisa Cetop 03
Block in cast iron Cetop 03

N° di posizioni
Stations number

S = attacchi A-B laterali
S = side ports A-B

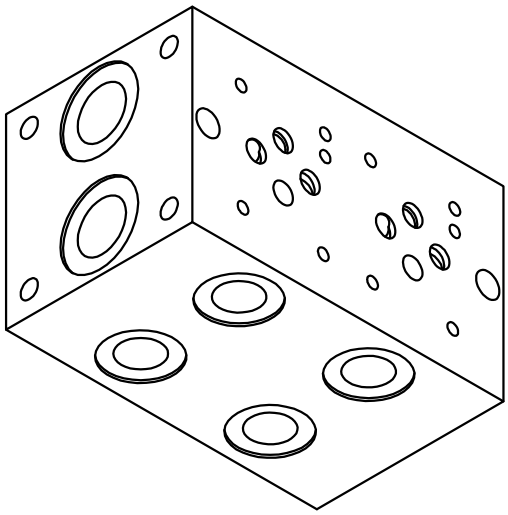
12 = attacchi da 1/2" BSP
12 = ports 1/2" BSP

2 = con valvola di max. RV 80 (pag. M06)
2 = with relief valve RV 80 (page M06)

0 = senza valvola di max.
0 = without relief valve

Y=5÷55 bar A=25÷110 bar B=75÷250 bar
C=75÷350 bar Flow=80 lt/min (page M06)

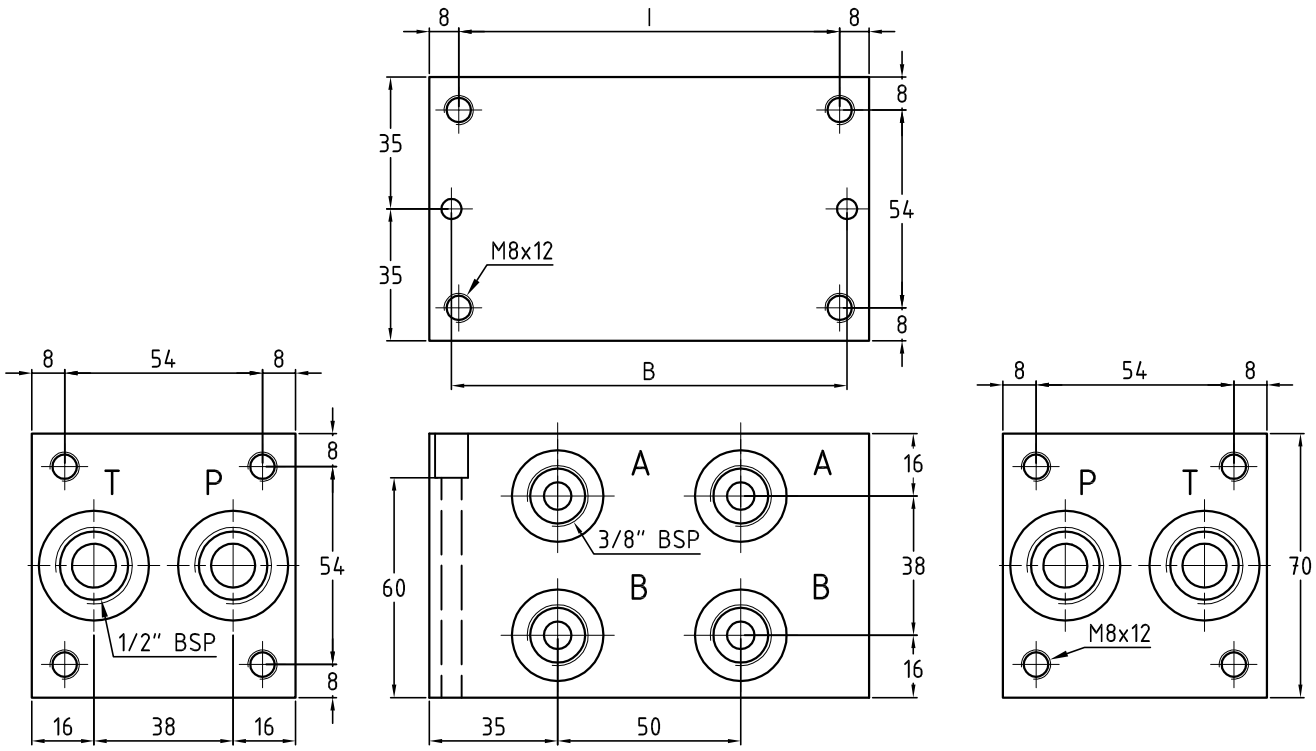
Monoblocchi Cetop 03/05 in alluminio
Aluminium Cetop 03/05 blocks



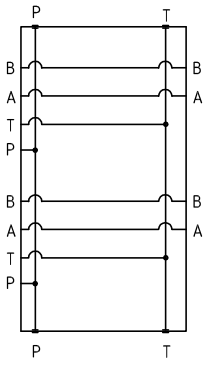
Sezione B
Section B

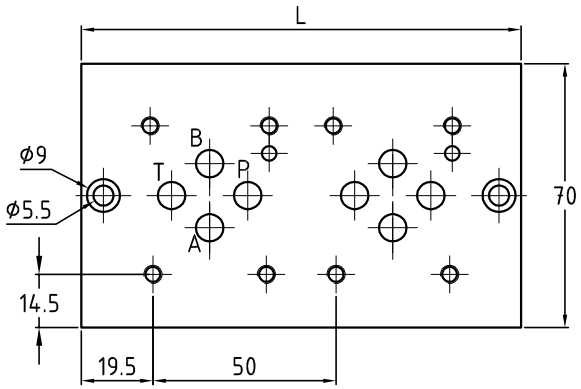
MBA 13

Piastre multiple in alluminio per elettrovalvole Cetop 03 con utilizzi A-B laterali
Aluminium block for electrovalves Cetop 03 with A-B side ports



Hydraulic diagram





Dimension table

N° Stat.	L	l	B	Kg
1	70	54	58	0,9
2	120	104	108	1,5
3	170	154	158	2,2
4	220	204	208	2,8
5	270	254	258	3,5
6	320	304	308	4,2
7	370	354	358	4,8
8	420	404	408	5,5
9	470	454	458	6,2
10	520	504	508	7,0
11	570	554	558	7.7
12	620	604	608	8.4
13	670	654	658	9.1

Esempio di ordinazione - Ordering code

MBA13 / * S 38 0 **

Monoblocco in alluminio Cetop 03
Aluminium block Cetop 03

N° di posizioni
Stations number

S = attacchi A-B laterali
S = side ports A-B

omet. = senza anodizzazione
obmit = without anodization

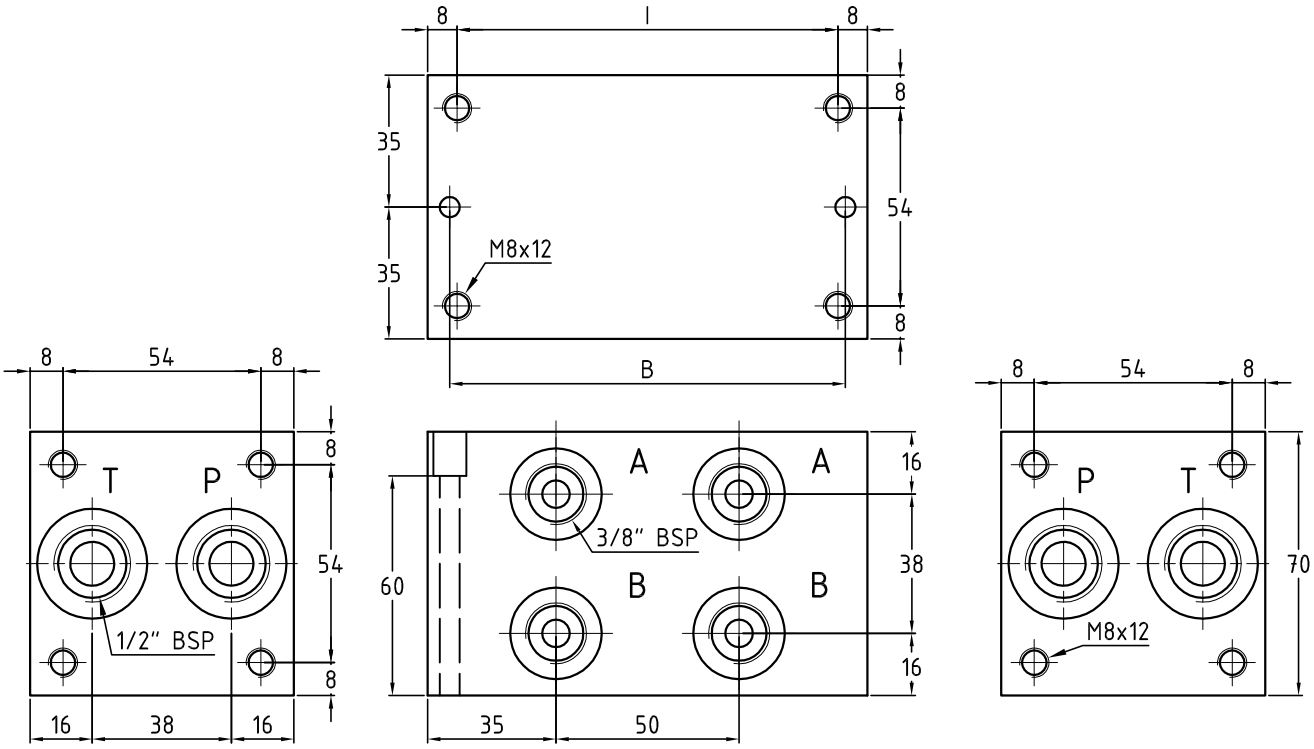
AN. = con anodizzazione
AN = complete with anodization

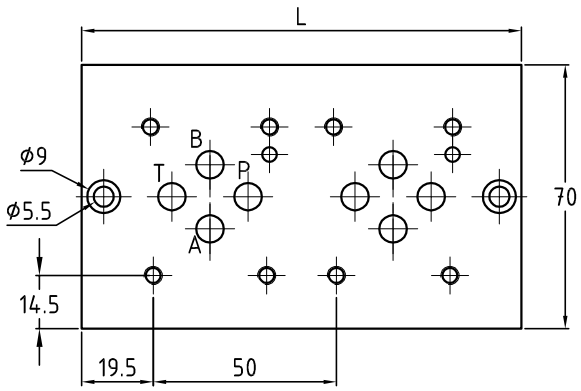
0 = senza valvola di max.
0 = without relief valve

38 = attacchi da 3/8" BSP
38 = ports 3/8" BSP

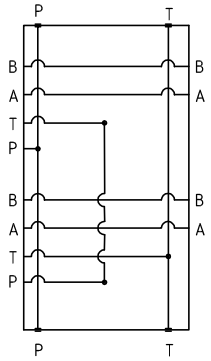
MBAS 13

Piastre multiple in alluminio per elettrovalvole Cetop 03 con utilizzi A-B laterali
Aluminium block for electrovalves Cetop 03 with A-B side ports





Hydraulic diagram



Dimension table

N° Stat.	L	l	B	Kg
2	120	104	108	1,5
3	170	154	158	2,2
4	220	204	208	2,8
5	270	254	258	3,5
6	320	304	308	4,2

Esempio di ordinazione - Ordering code

MBAS13 / * S 38 0

Monoblocco in alluminio Cetop 03 coll. serie
Aluminium block Cetop 03 series conn.

N° di posizioni
Stations number

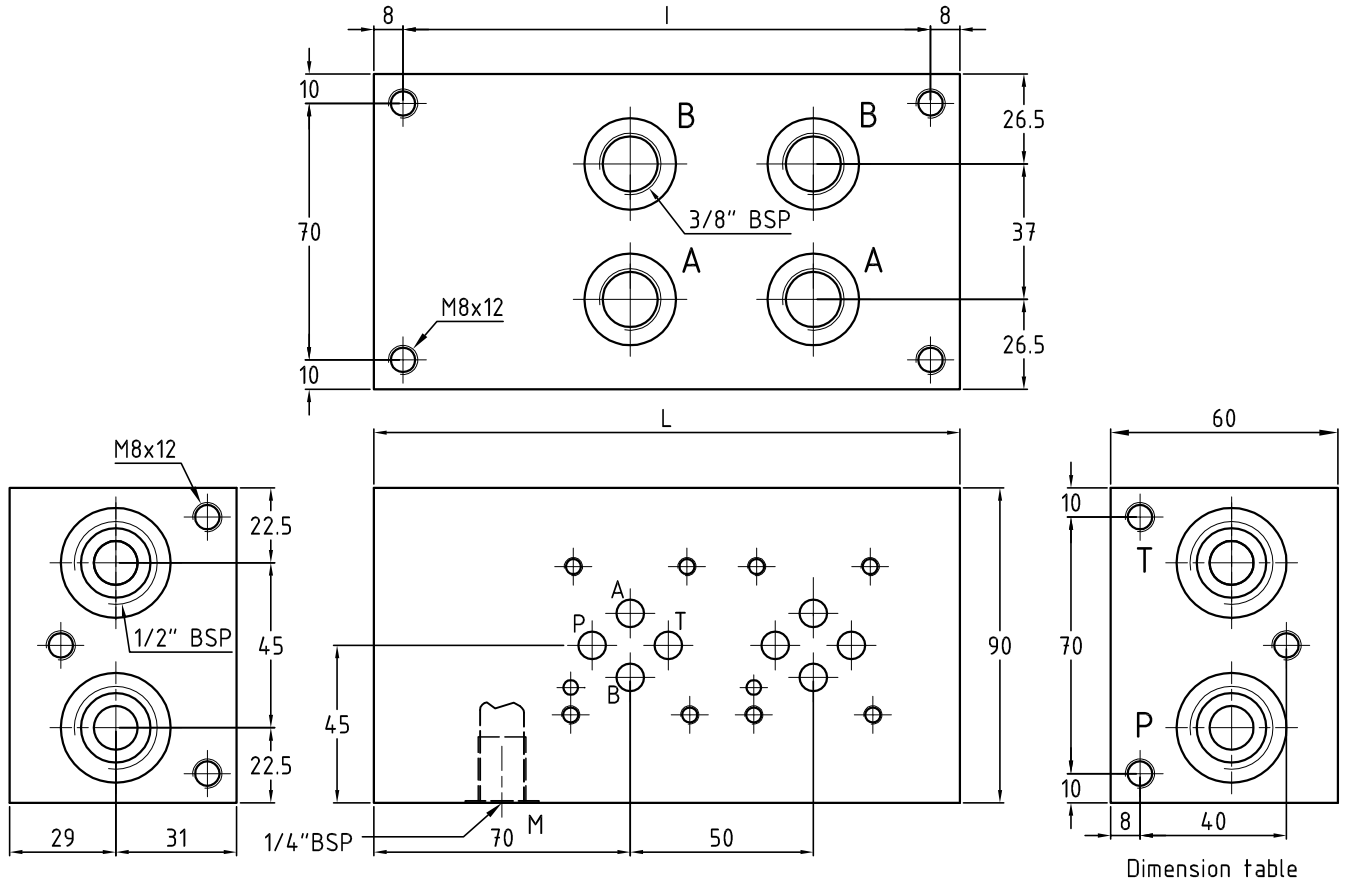
S = attacchi A-B laterali
S = side ports A-B

0 = senza valvola di max.
0 = without relief valve

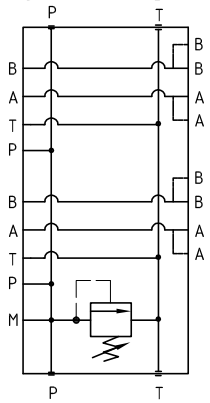
38 = attacchi da 3/8" BSP
38 = ports 3/8" BSP

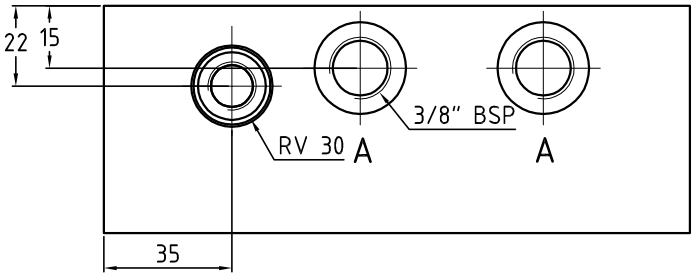
MBA 23

Piastre multiple in alluminio per elettrovalvole Cetop 03 con utilizzi A-B post. o post. e lat.
Aluminium block for electrovalves Cetop 03 with A-B rear ports or rear and side ports



Hydraulic diagram





Dimension table

N° Stat.	L	l	Kg
1	110	94	1,4
2	160	144	2,3
3	210	194	3,0
4	260	244	3,7
5	310	294	4,5
6	360	344	5,2
7	410	394	5,9
8	460	444	7,0
9	510	594	8,1

Esempio di ordinazione - Ordering code

Su richiesta RV SAE 10/2 (pagina M04)
On request RV SAE 10/2 (page M04)

MBA23 / * * ** * *

Monoblocco in alluminio Cetop 03
Aluminium block Cetop 03

N° di posizioni
Stations number

R = attacchi A-B posteriori
R = rear ports A-B

RS = attacchi A-B posteriori e laterali (solo versione 38)
RS = rear and side ports A-B (only version 38)

Y=5÷55 bar A=25÷110 bar B=50÷250 bar
(page M02)

0 = senza valvola di max.
0 = without relief valve
1 = pred. per valvola di max. RV 30
1 = prearranged for relief valve RV 30
2 = con valvola di max. RV 30
2 = with relief valve RV 30

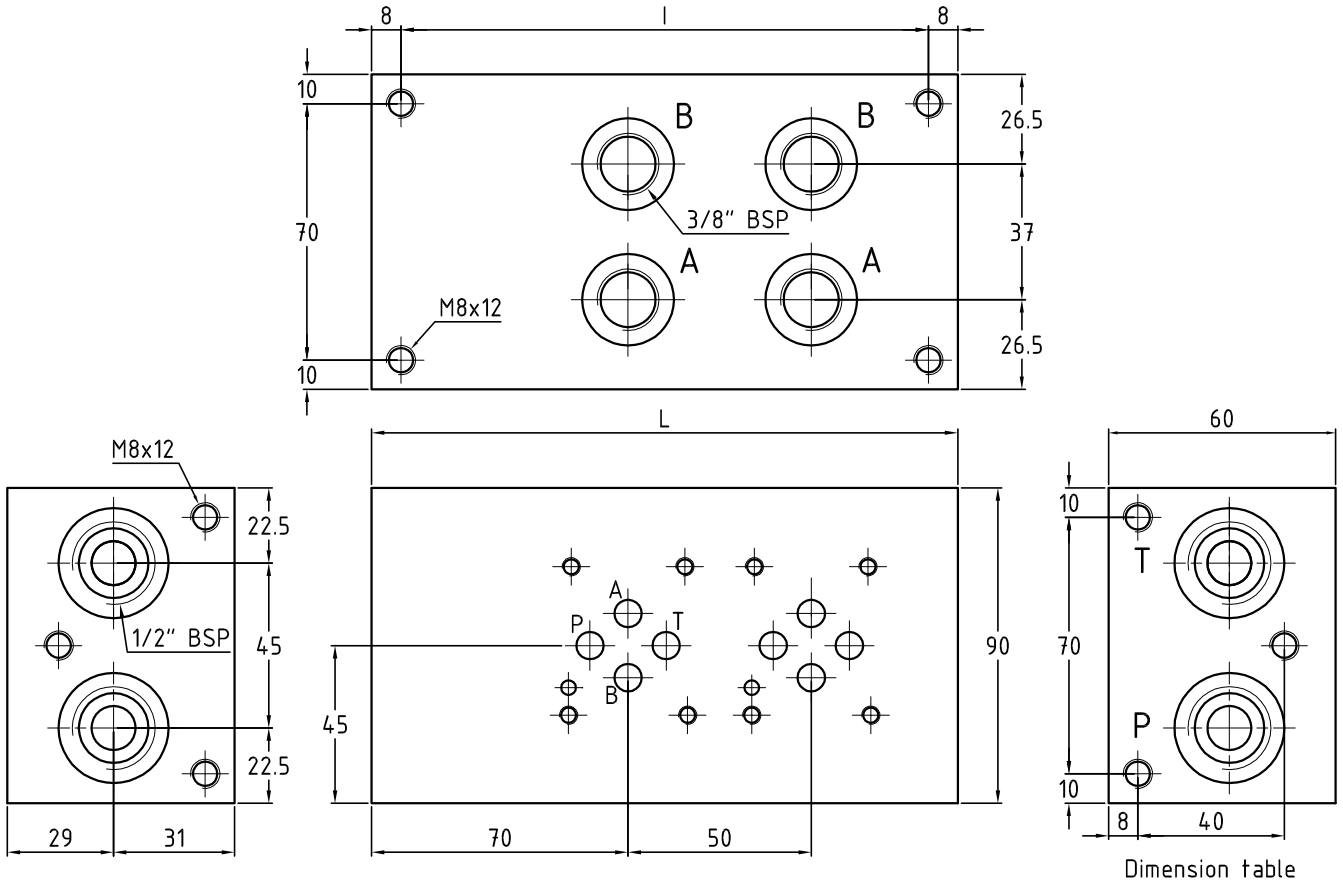
38 = attacchi da 3/8" BSP
38 = ports 3/8" BSP
12 = attacchi da 1/2" BSP (su richiesta)
12 = ports 1/2" BSP (on request)

MBA 23RS14

NEW

Piastre multiple in alluminio per elett. Cetop 03 con utilizzi A-B posteriori e laterali

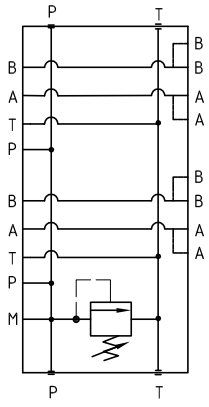
Aluminium block for electrovalves Cetop 03 with A-B rear and side ports

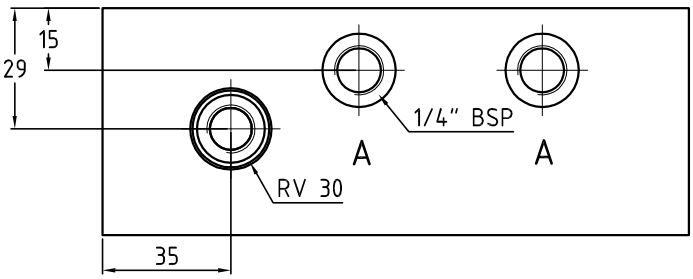


Dimension table

N° Stat.	L	l	Kg
1	110	94	1,4
2	160	144	2,3
3	210	194	3,0
4	260	244	3,7
5	310	294	4,5
6	360	344	5,2
7	410	394	5,9
8	460	444	7,0
9	510	594	8,1

Hydraulic diagram





Esempio di ordinazione - Ordering code

MBA23 / * RS 14 38 ** * *

* Su richiesta valvola di massima SAE 10/2
On request relief valve SAE 10/2 (page M04)

Monoblocco in alluminio Cetop 03
Aluminium block iron Cetop 03

N° di posizioni
Stations number

RS = attacchi A-B posteriori e laterali
RS = rear and side ports A-B

attacchi laterali 1/4" BSP
side ports 1/4" BSP

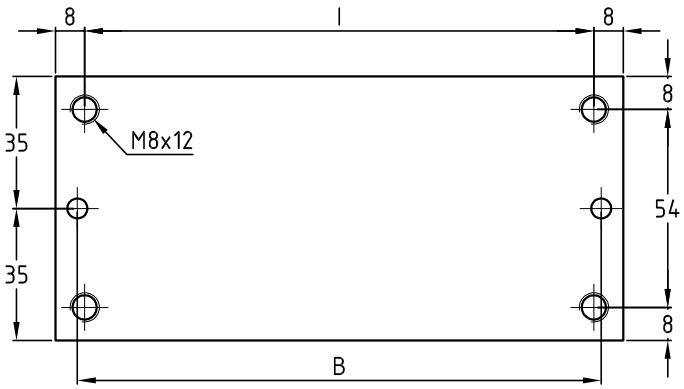
attacchi posteriori 3/8" BSP
rear ports 3/8" BSP

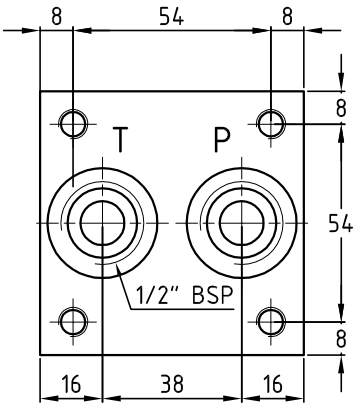
0 = senza valvola di max.
0 = without relief valve
1 = pred. per valvola di max. RV 30
1 = prearranged for relief valve RV 30
2 = con valvola di max. RV 30 (pag. M02)
2 = with relief valve RV 30 (page M02)

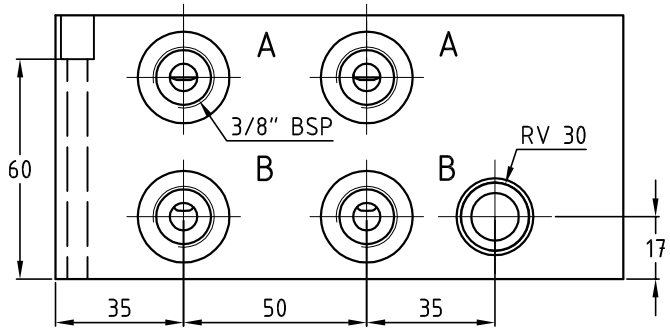
Y=5÷55 bar A=25÷110 bar B=50÷250 bar
C=100÷350 bar D=100÷420

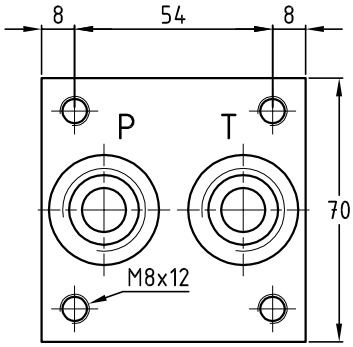
MBA 33

Aluminium block for electrovalves Cetop 03 with A-B side ports
Piastre multiple in alluminio per elettrovalvole Cetop 03 con utilizzi A-B laterali

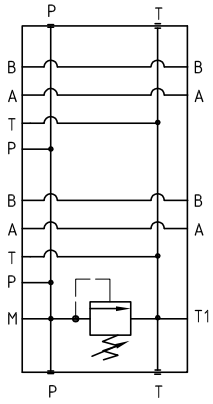


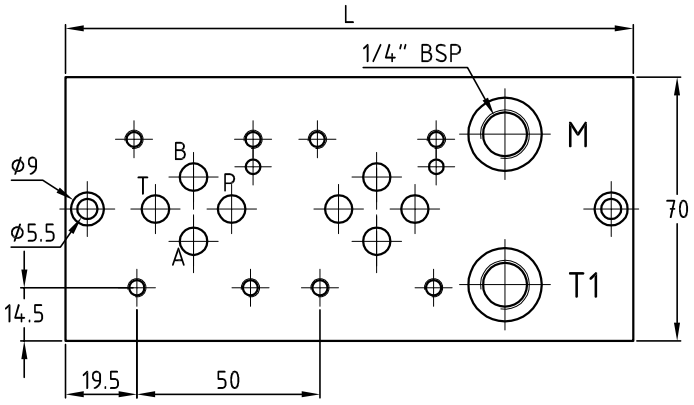






Hydraulic diagram





Dimension table

N° Stat.	L	l	B	Kg
1	105	89	93	1,3
2	155	139	143	2,0
3	205	189	193	2,7
4	255	239	243	3,3
5	305	289	293	4,0
6	355	339	343	4,6
7	405	389	393	5,3
8	455	439	443	6,0
9	505	489	493	6,7
10	Special drawing			

Su richiesta valvola di massima SAE 10/2 (pagina M04)
On request relief valve SAE 10/2 (page M04)

Esempio di ordinazione - Ordering code

MBA33 / * S 38 * *

Monoblocco in alluminio Cetop 03
Aluminium block Cetop 03

N° di posizioni
Stations number

S = attacchi A-B laterali
S = side ports A-B

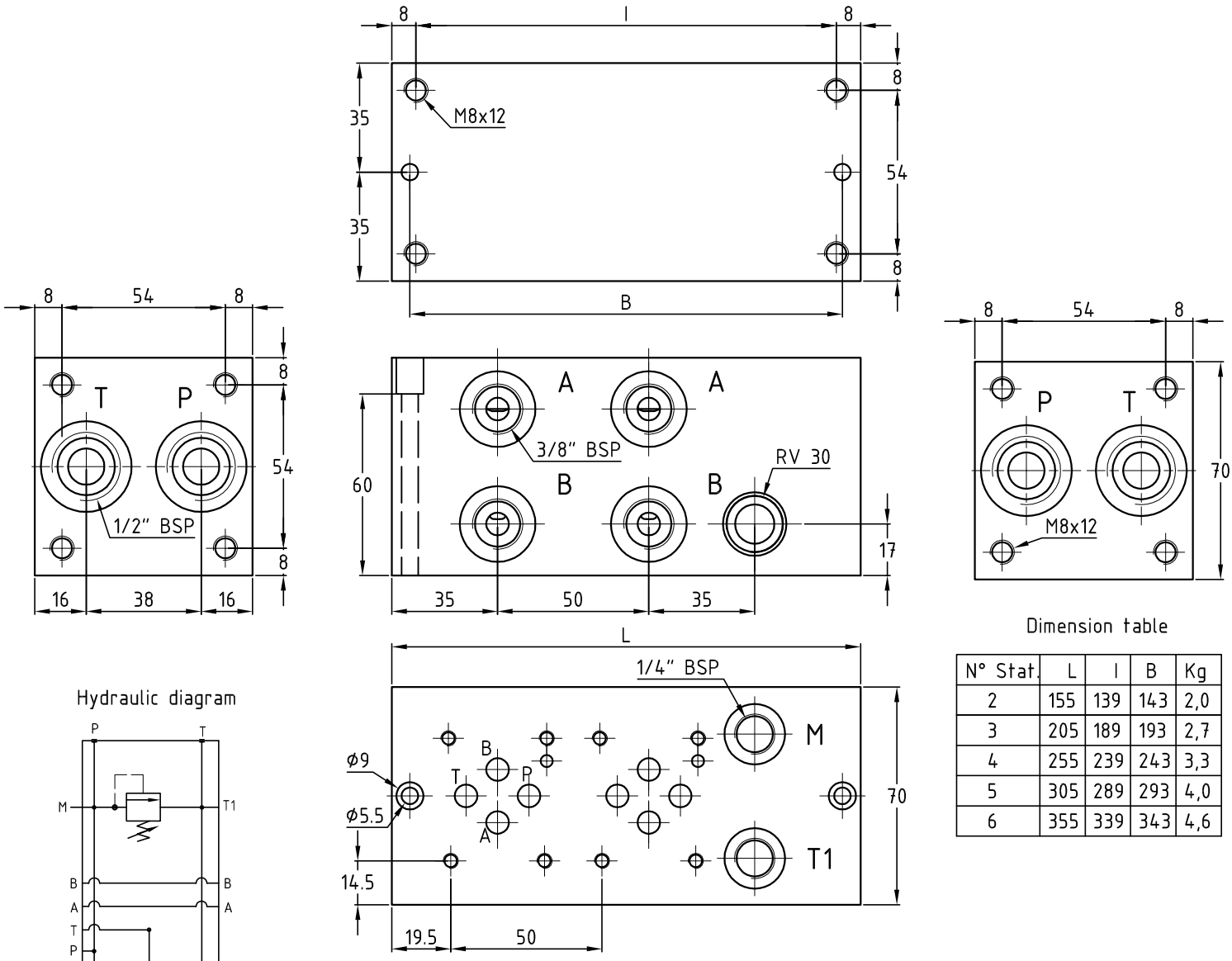
38 = attacchi da 3/8" BSP
38 = ports 3/8" BSP

0 = senza valvola di max.
0 = without relief valve
1 = pred. per valvola di max. RV 30
1 = prearranged for relief valve RV 30
2 = con valvola di max. RV 30 (pag. M02)
2 = with relief valve RV 30 (page M02)

Y=5÷55 bar A=25÷110 bar B=50÷250 bar
(page M02)

MBAS 33

Aluminium block for electrovalves Cetop 03 with A-B side ports
Piastre multiple in alluminio per elettrovalvole Cetop 03 con utilizzi A-B laterali



Dimension table

N° Stat.	L	l	B	Kg
2	155	139	143	2,0
3	205	189	193	2,7
4	255	239	243	3,3
5	305	289	293	4,0
6	355	339	343	4,6

Hydraulic diagram

Esempio di ordinazione - Ordering code

MBAS33 / * S 38 * *

Monoblocco in alluminio Cetop 03
Aluminium block Cetop 03

N° di posizioni
Stations number

S = attacchi A-B laterali
S = side ports A-B

38 = attacchi da 3/8" BSP
38 = ports 3/8" BSP

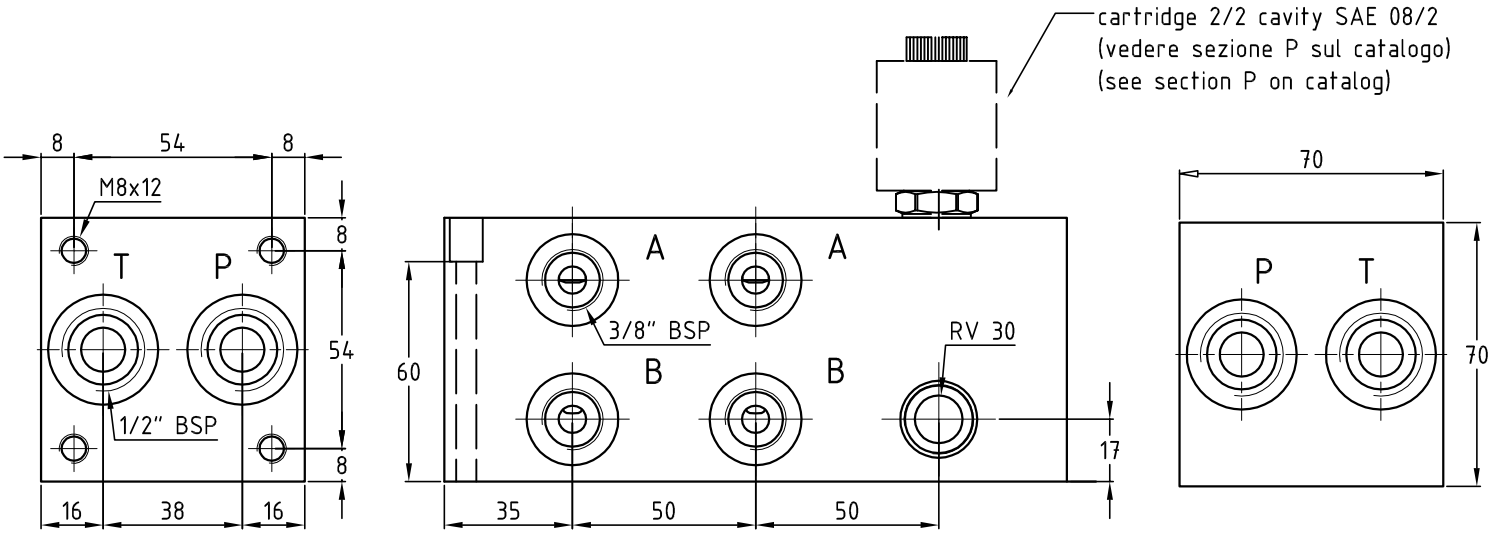
0 = senza valvola di max.
0 = without relief valve
1 = pred. per valvola di max. RV 30
1 = prearranged for relief valve RV 30
2 = con valvola di max. RV 30 (pag. M02)
2 = with relief valve RV 30 (page M02)

Y=5÷55 bar A=25÷110 bar B=50÷250 bar
(page M02)

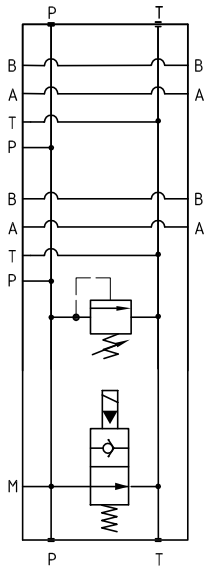
MBA 33 VL

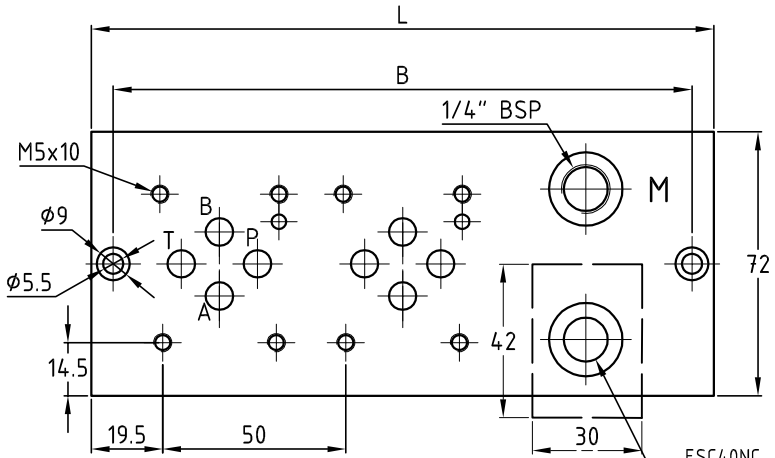
Piastra mult. in alluminio per elettrovalvole cetop 03 con utilizzi A-B laterali predisposta per valvola a comando cavità SAE.

Manifold in aluminium for electrovalves Cetop 03 with A-B side ports and prearranged for SAE cartridge valve 2 way 2 position



Schema idraulico con valvola NO
Hydraulic diagram with cartridge valve NO





ESC40NC
ESC40NO
Vedi catalogo alla sezione P
See catalog on section P

Dimension table

N° Stat.	L	B	Kg
1	120	108	1.3
2	170	158	2.0
3	220	208	2.7
4	270	258	3.4
5	320	308	4.1
6	370	358	4.8
7	420	408	5.5
8	470	458	6.2
9	520	508	6.9

Esempio di ordinazione - Ordering code

MBA33 VL/ * S ** ** 2 *

Monoblocco in alluminio Cetop 03 con venting
Aluminium block Cetop 03 with venting

N° di posizioni
Stations number

S = attacchi A-B laterali
S = side ports A-B

NC = Norm. chiusa NO = Norm. aperta
NC = Norm. close NO = Norm. open

Vedere sezione P (See Section P) 12=12VDC
24=24VDC 110=110VDC 220=220VDC

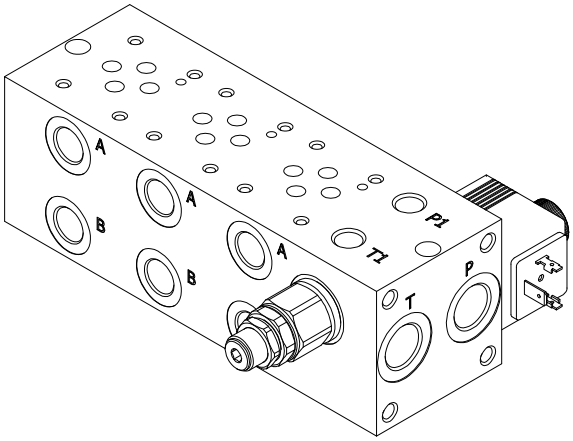
2 = con valvola di max. RV 30
2 = with relief valve RV 30

Y=5÷55 bar A=25÷110 bar B=50÷250 bar
(page M02)

MBA 33 VH

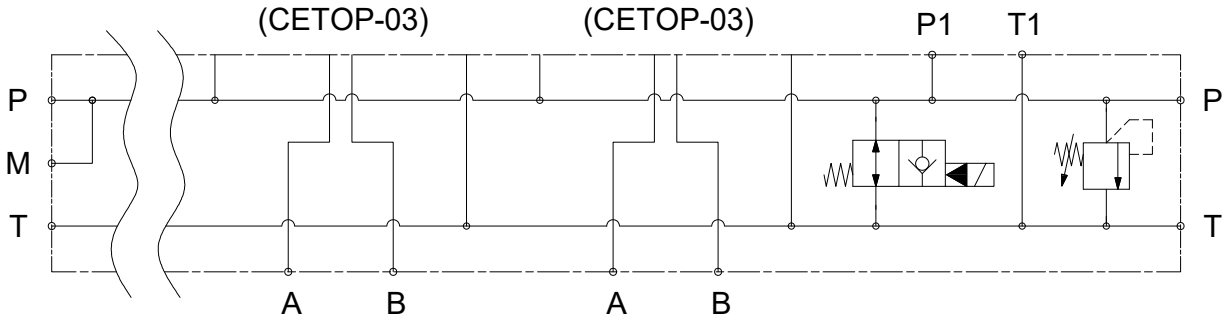
Piastra multipla in alluminio per Valvole Cetop-03, con utilizzi laterali, predisposta per elettrovalvola 2/2 e valvola limitatrice di pressione a cartuccia.

Aluminum multi-plate for Cetop-03 Valves, with side ports, prearranged for 2/2 solenoid valve and pressure relief valve cartridge style.



DATI TECNICI *TECHNICAL DATA*	
Portata max / Max flow-rate	60 Lt/min
Pressione max di lavoro / Max working pressure	250 bar
Temp. olio raccomandata / Recommended oil temp.	-30 / +100 °C
Filtrazione olio raccom. / Recomm. oil cleanliness	18/16/13 ISO-4406
Tipo Bobina - Connettore / Coil - Connector type	22W - DIN43650
Corpo in Alluminio / Aluminum body	

PORTE *PORTS*	
P - T	G1/2"
A - B	G3/8"
P1 - T1 - M	G1/4"



Codice di ordinazione - *Ordering code*

MBA33VH/ * S ** NO ** 2 *

N° stazioni Cetop-03
N° Cetop-03 stations

S = porte A-B laterali
S = side A-B ports

38 = porte A-B G3/8" (standard)
38 = A-B ports G3/8" (standard)

12 = porte A-B G1/2" (a richiesta)
12 = A-B ports G1/2" (on request)

NO = elettrovalvola 2/2 normalmente aperta
NO = 2/2 normally open solenoid valve

12 = 12 Vdc (EV 2/2)
24 = 24 Vdc (EV 2/2)
110 = 110 Vac (EV 2/2)
220 = 220 Vac (EV 2/2)

2 = con Valvola limitatrice
2 = with Relief valve

Y (5-110 bar)
A (10-180 bar)
B (10-250 bar)

(Vedi pag. M05)
(See pag. M05)

MBA 33 VH

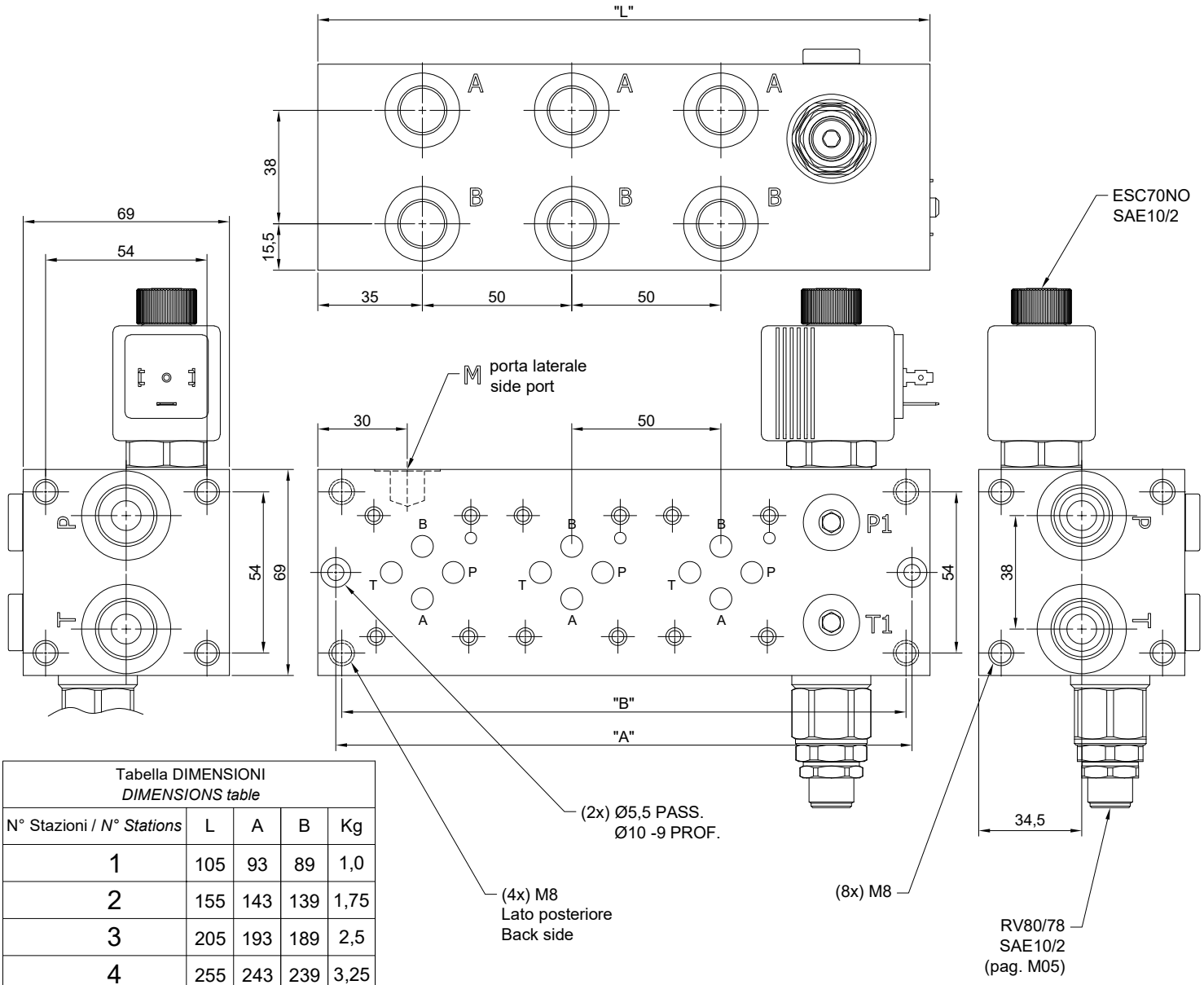
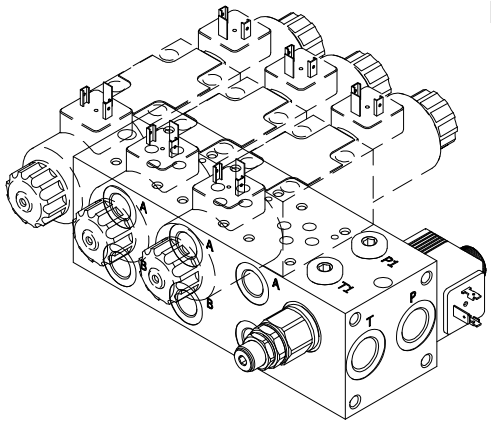
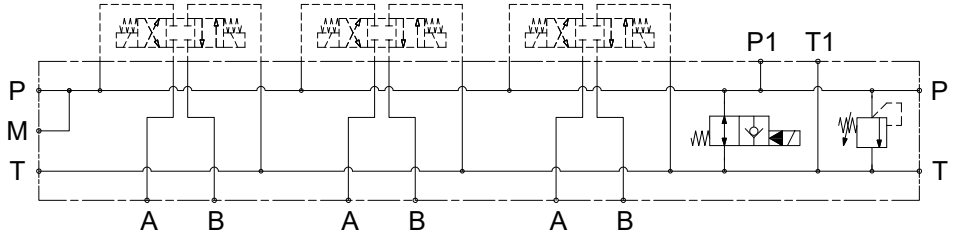


Tabella DIMENSIONI *DIMENSIONS table*				
N° Stazioni / *N° Stations*	L	A	B	Kg
1	105	93	89	1,0
2	155	143	139	1,75
3	205	193	189	2,5
4	255	243	239	3,25
5	305	293	289	4,0
6	355	343	339	4,75
7	405	393	389	5,5
8	455	443	439	6,25
9	505	493	489	7,0

PORTE *PORTS*	
P - T	G1/2"
A - B	G3/8"
P1 - T1 - M	G1/4"

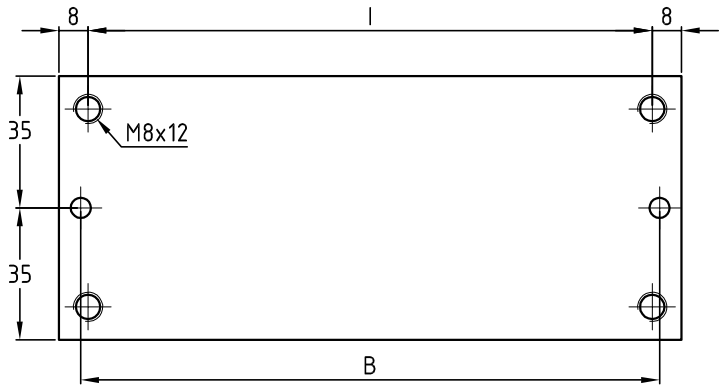
Esempio di applicazione / *Application example*



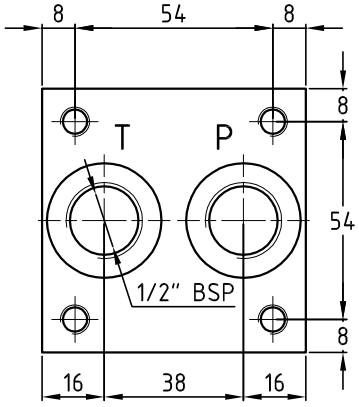


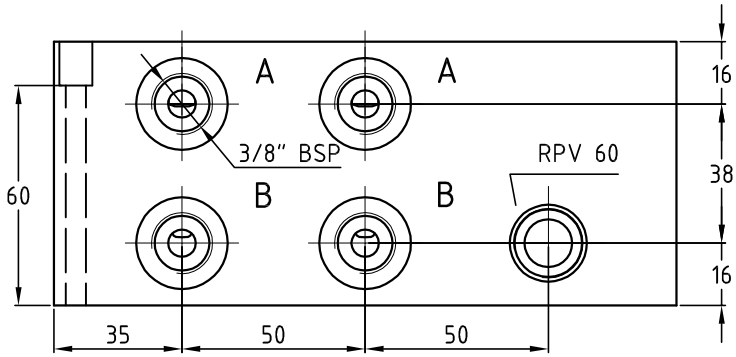
MBA 33 RP

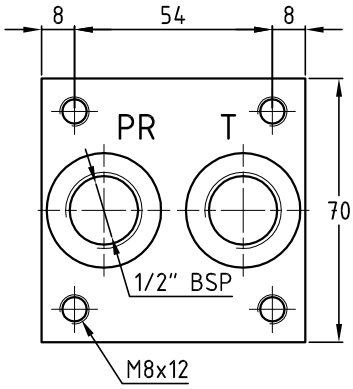
Piastre multiple in all. per elettrov. Cetop03 utilizzi A-B laterali e valv. riduttrice pressione
Manifold in alu. for electrov. Cetop 03 with A-B side ports and reducing pressure valve



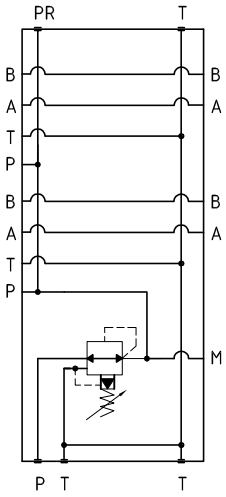
Max pressure inlet = 250 BAR
Max. pressione ingresso = 250 bar

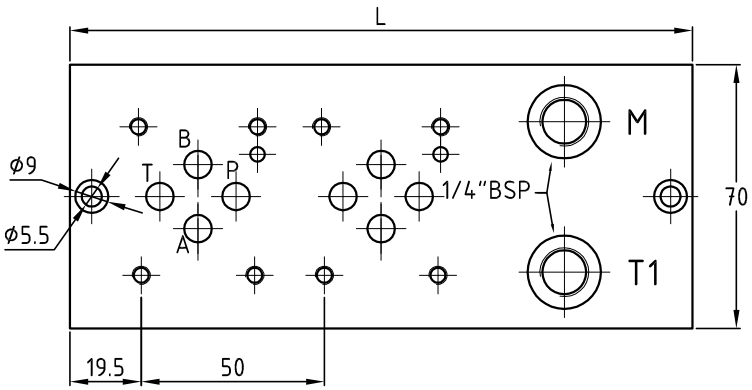






Hydraulic diagram





Dimension table

N° Stat.	L	l	B
2	170	154	158
3	220	204	208
4	270	254	258
5	320	304	308
6	370	354	358
7	420	404	408
8	470	454	458

Esempio di ordinazione - ordering code

MBA33 / * S 38 RP *

Monoblocco in alluminio Cetop 03
Aluminium Block Cetop 03

N° di posizioni
Stations number

S = attacchi A-B laterali
S = side ports A-B

Con valvola riduttrice di pressione sae 10/3
With reducing pressure valve

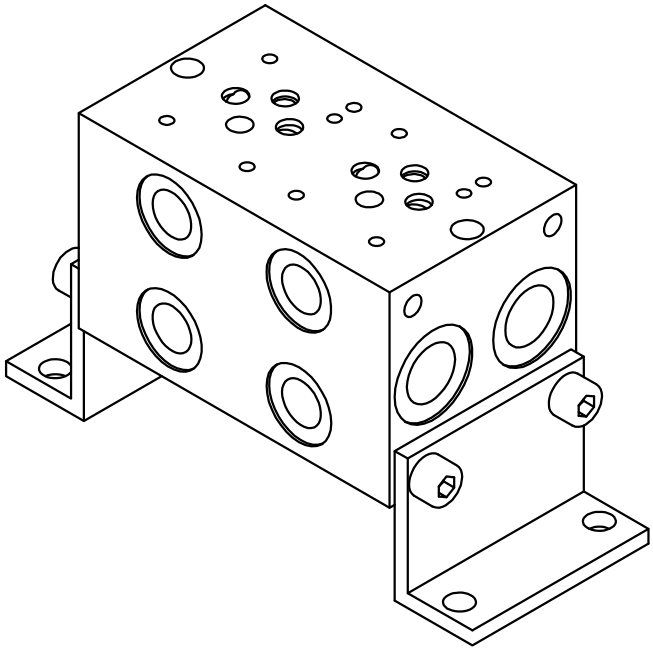
38 = attacchi da 3/8" BSP
38 = ports 3/8" BSP

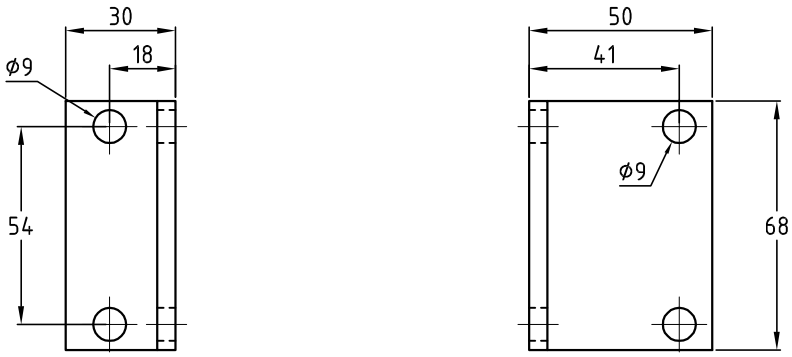
Q = 60 lt/min

6 = P max 63 bar
10 = P max 100 bar
16 = P max 160 bar
25 = P max 250 bar

SUMB 03

Staffa di fissaggio in alluminio per piastre multiple Cetop 03
Aluminium mounting bracket for monoblocks Cetop 03



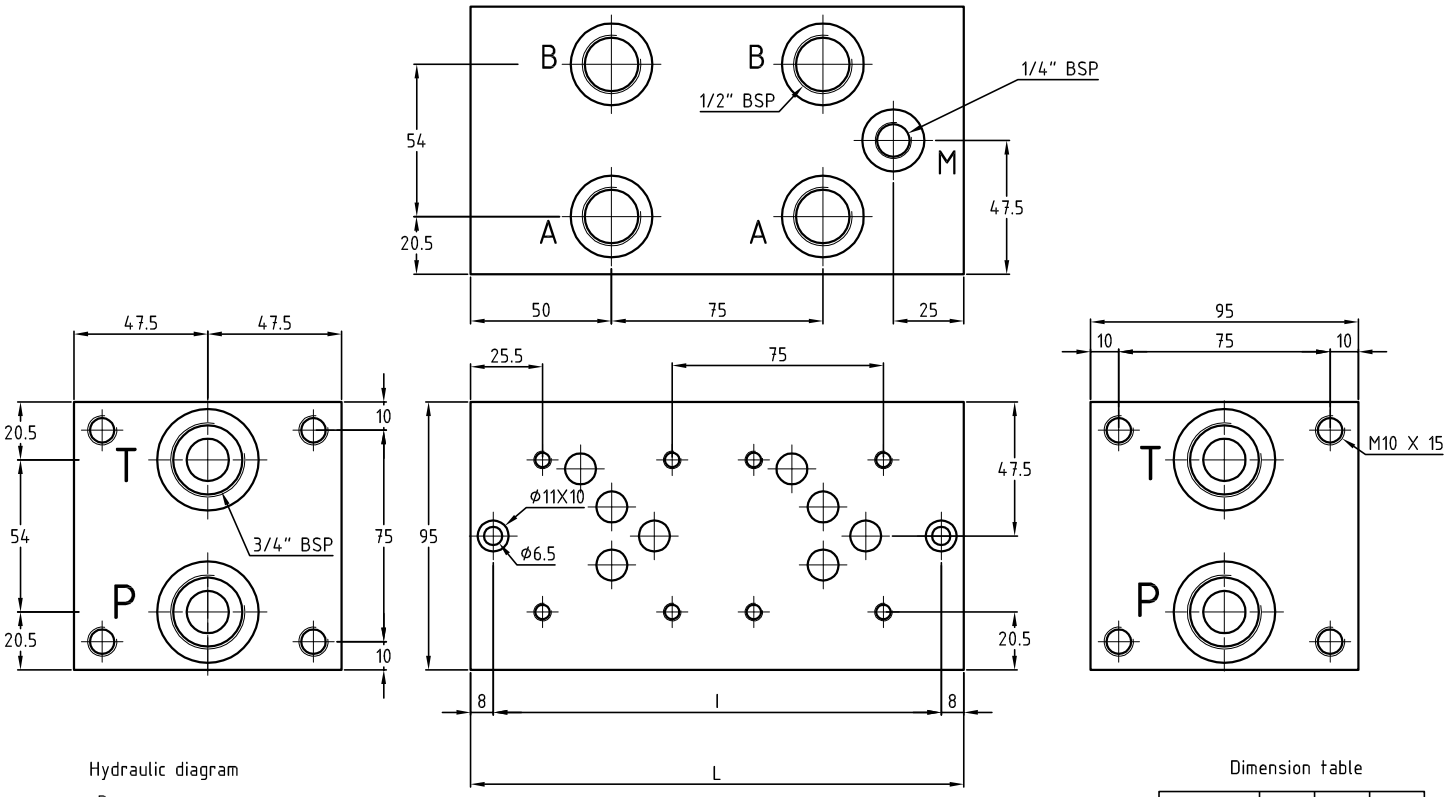


Esempio di ordinazione - ordering code

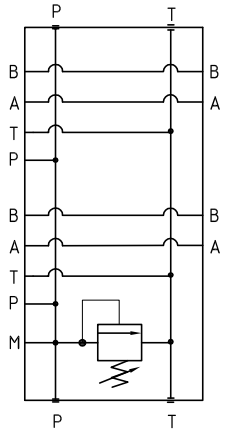
SUMB 03

MBA 35

Piastre multiple in all. per elettrovalvole Cetop 05 con utilizzi A-B laterali
Aluminium monoblock for electrovalves Cetop 05 with A-B side ports



Hydraulic diagram



Dimension table

	N° Stat.	L	l	Kg
solo versione 0 only version 0	1/0	100	84	6
solo ver. 1 or 2 only ver. 1 or 2	1/1	140	124	9
	2	175	159	11
	3	250	234	16
	4	325	309	21
	5	400	384	26
	6	475	459	31

Esempio di ordinazione - Ordering code

MBA35 / * S 12 * *

Monoblocco Cetop 05 in alluminio
Aluminiumm Block Cetop 05

N° di posizioni
Stations number

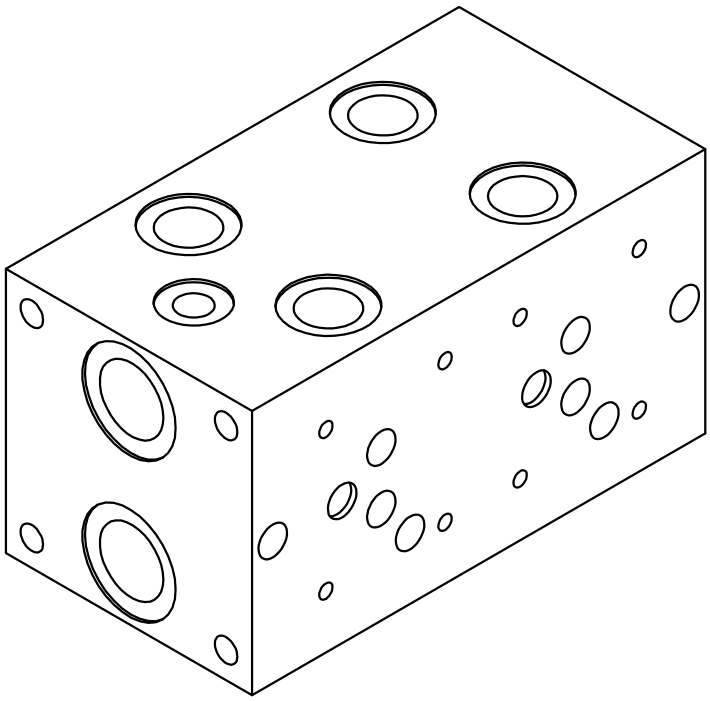
S = attacchi A-B laterali
S = side ports A-B

12 = attacchi da 1/2" BSP
12 = ports 1/2" BSP

0 = senza valvola di max.
0 = without relief valve
1 = pred. per valvola di max. RV 80
1 = prearranged for relief valve RV 80
2 = con valvola di max. RV 80 (pag. M06)
2 = with relief valve RV 80 (page M06)

Y=5÷55bar A=25÷110 bar B=50÷250 bar
Flow=80 lt/min

Monoblocchi Cetop 05 in ghisa
Cast iron Cetop 05 blocks

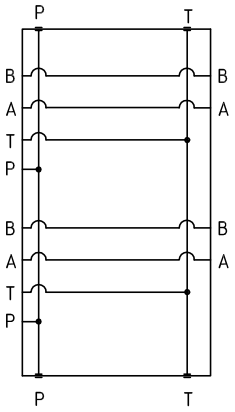


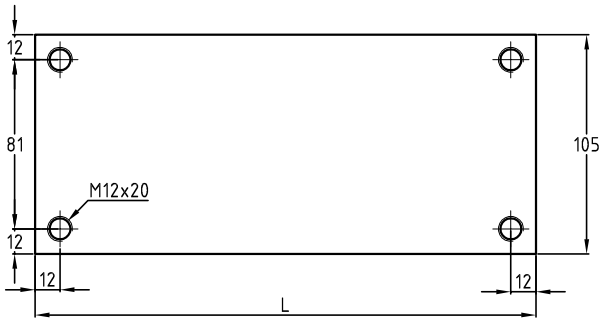
Sezione C
Section C

MB 15

Piastre multiple in ghisa per elettrovalvole Cetop 05 con utilizzi A-B laterali
Manifold in cast iron for electrovalves Cetop 05 with A-B side ports

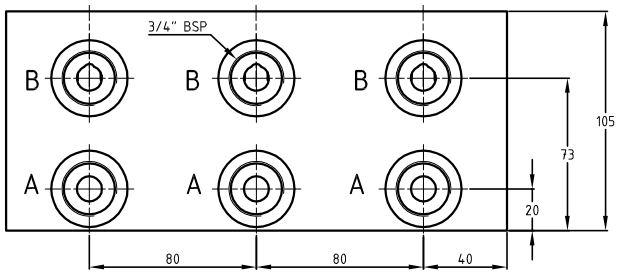
Hydraulic diagram

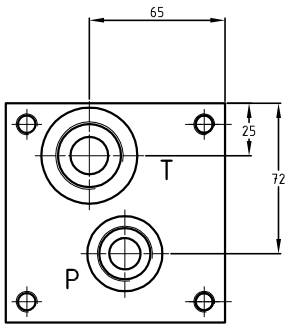


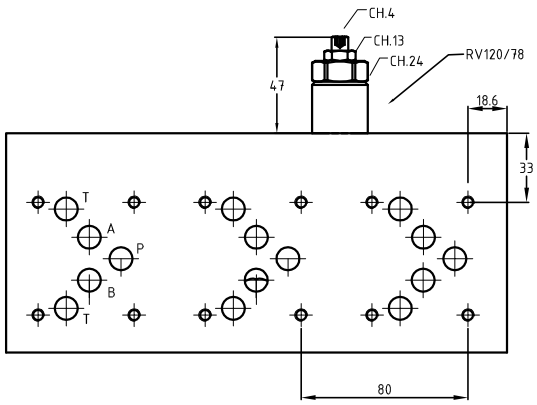


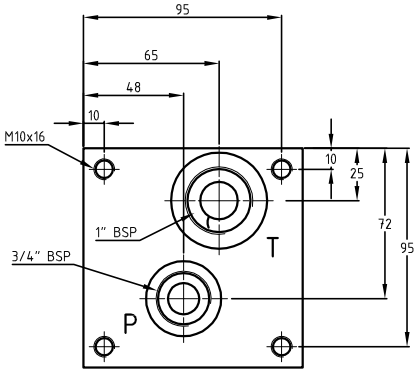
Dimension table

N° Stat.	L	Kg
1	80	5.5
2	160	12
3	240	18.5
4	320	25
5	400	31.5
6	480	38









Esempio di ordinazione - Ordering code

MB15 / * S 34 *

Monoblocco in ghisa Cetop 05
Block in cast iron Cetop 05

N° di posizioni
Stations number

S = attacchi A-B laterali
S = side ports A-B

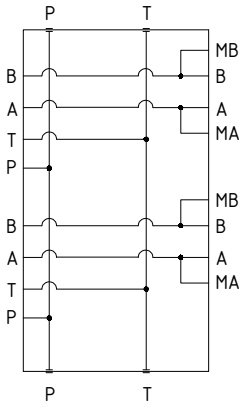
0 = senza valvola di max.
0 = without relief valve
2 = con valvola di max. RV 120/78 sez.M07
2 = with relief valve RV 120/78 see sect. M07

34 = attacchi da 3/4" BSP
34 = ports 3/4" BSP

MB15 * S340 M

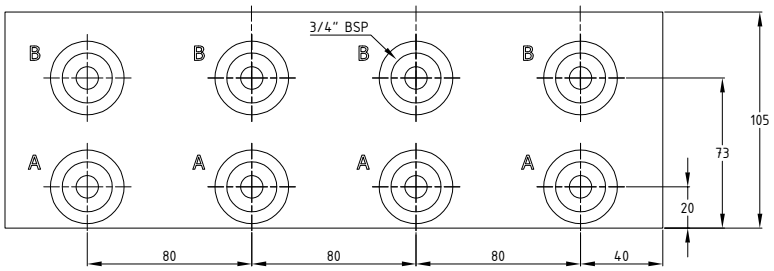
Piastre multiple in ghisa per elettrovalvole Cetop 05 con utilizzi A-B laterali e porte "M" Manometro
Manifold in cast iron for electrovalves Cetop 05 with A-B side ports and "M" manometer ports

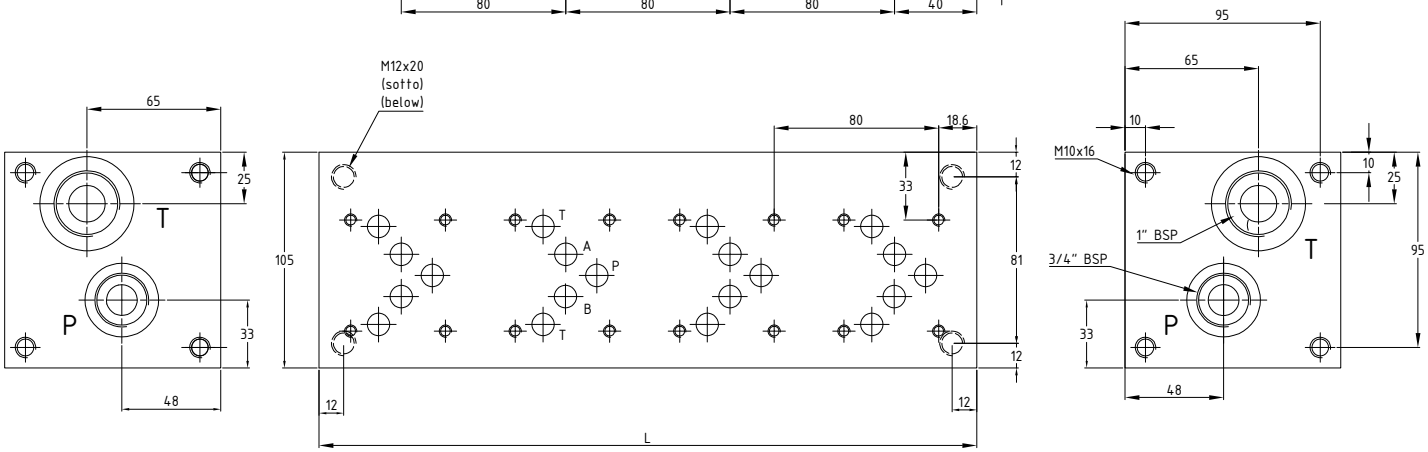
Hydraulic diagram

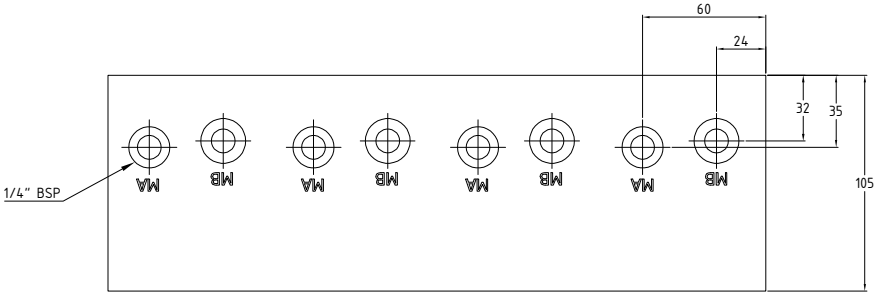


Dimension table

N°Stat.	L	Kg
1	80	5
2	160	11.5
3	240	18
4	320	24.5
5	400	31
6	480	38.5
7	560	31
8	640	37.5







Esempio di ordinazione – Ordering code

MB15 / * S 34 0 - M

Monoblocco in ghisa Cetop 05
Block in cast iron Cetop 05

N° di posizioni
Stations number

S = attacchi A-B laterali
S = side ports A-B

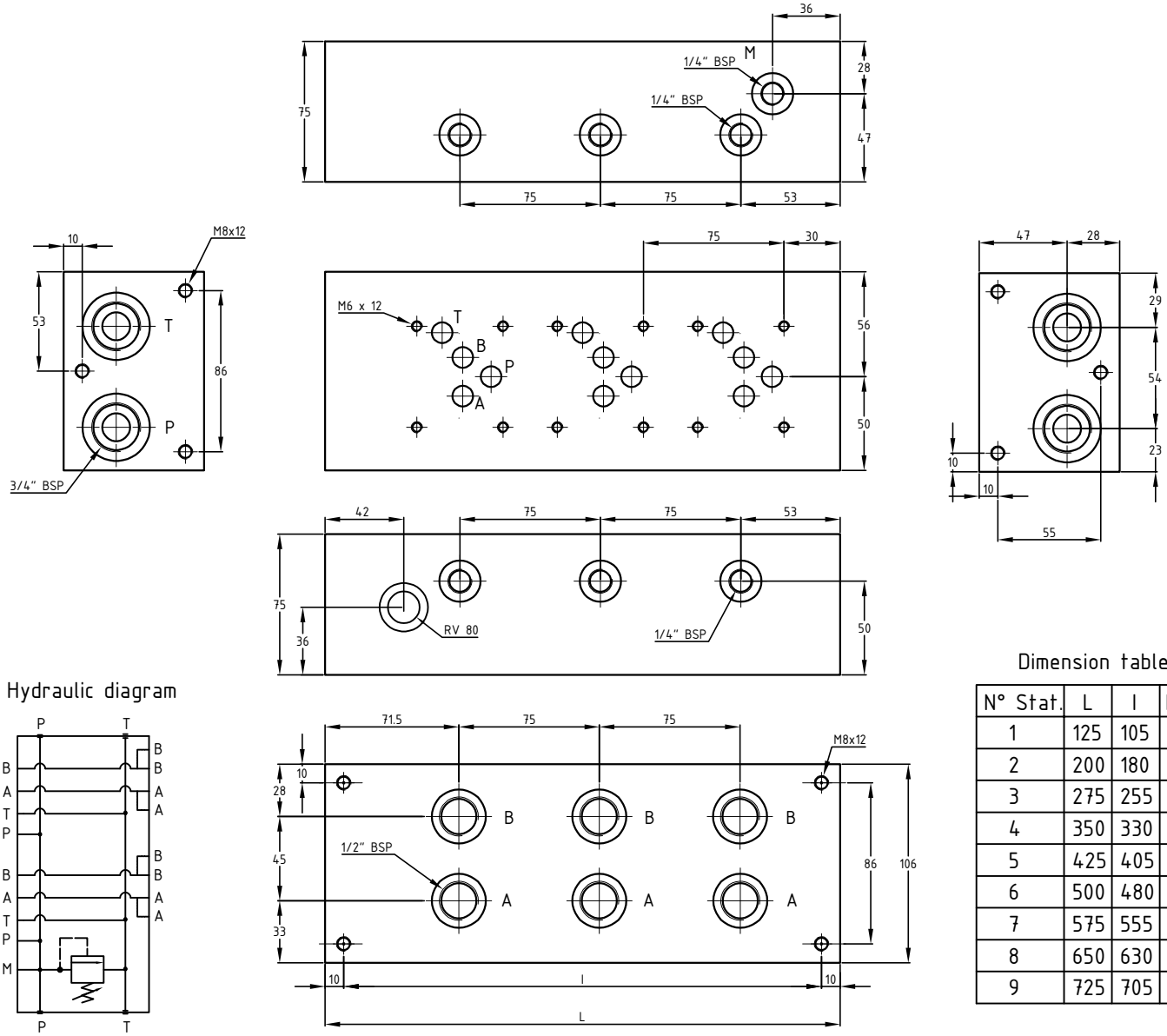
34 = attacchi da 3/4" BSP
34 = ports 3/4" BSP

0 = senza valvola di max.
0 = without relief valve

M = porte M da G1/4" BSP
M = M ports G1/4" BSP

MB 25

Piastre multiple in ghisa interf. Cetop 05 con utilizzi A-B posteriori o posteriori e laterali
Cast-iron Manifold Cetop 05 interface with A-B rear ports or rear and side ports



Hydraulic diagram

Dimension table

N° Stat.	L	l	Kg
1	125	105	6
2	200	180	11
3	275	255	15
4	350	330	19
5	425	405	23
6	500	480	27
7	575	555	31
8	650	630	35
9	725	705	39

Codice di ordinazione - Ordering code

MB25 / * * ** * *

Monoblocco in ghisa Cetop 05
Block in cast iron Cetop 05

N° di posizioni
Stations number

R = attacchi A-B posteriori
R = rear ports A-B
RS = attacchi A-B posteriori 1/2" e laterali 1/4" BSP
RS = rear 1/2" and side ports A-B 1/4" BSP

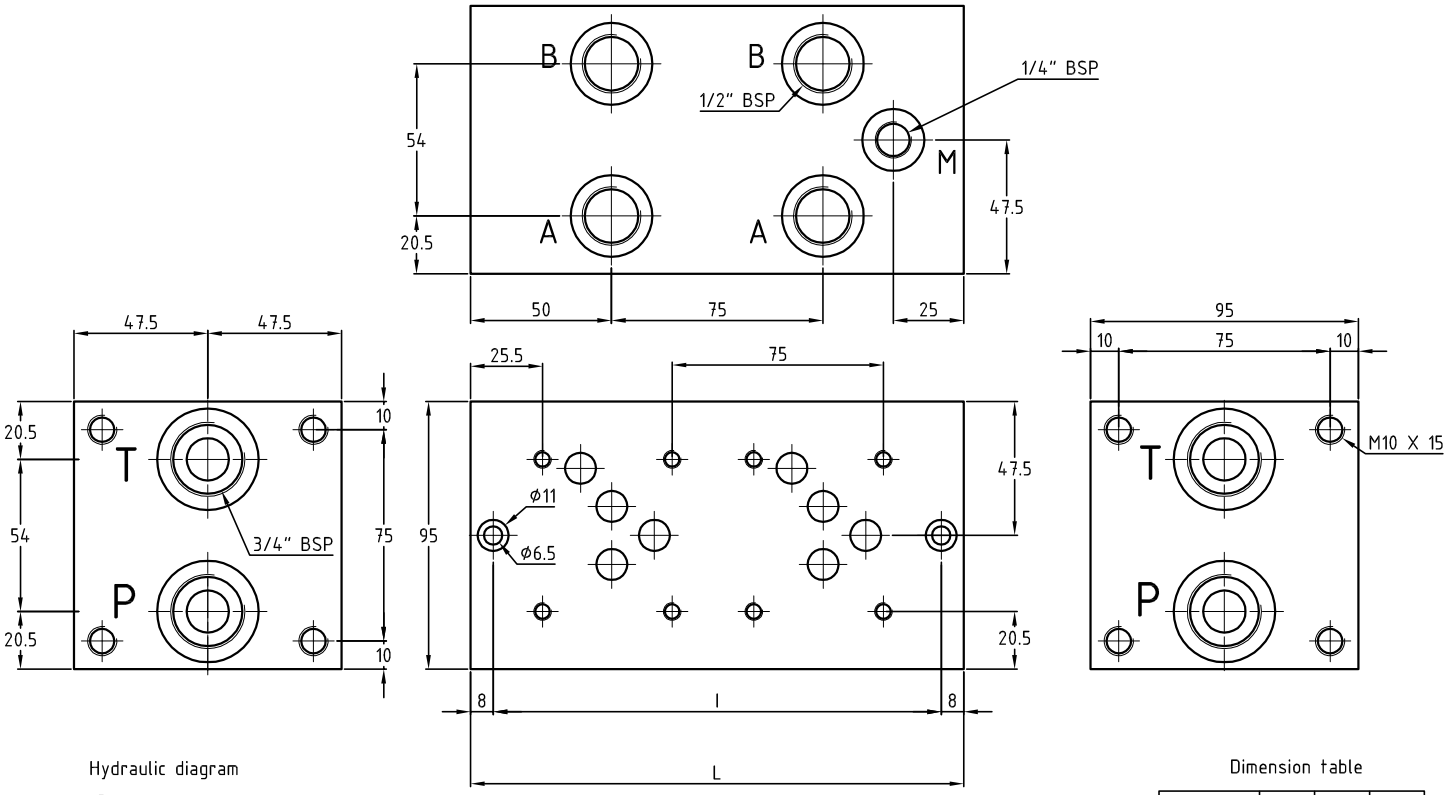
Y=5÷55 bar A=25÷110 bar B=50÷250 bar
C=75÷350 bar (Q=80 Lt/min)

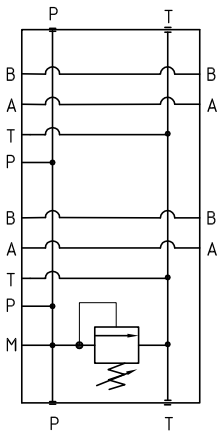
0 = senza valvola di max.
0 = without relief valve
1 = pred. per valvola di max. RV 80
1 = prearranged for relief valve RV 80
2 = con valvola di max. RV 80 (pag. M06)
2 = with relief valve RV 80 (page M06)

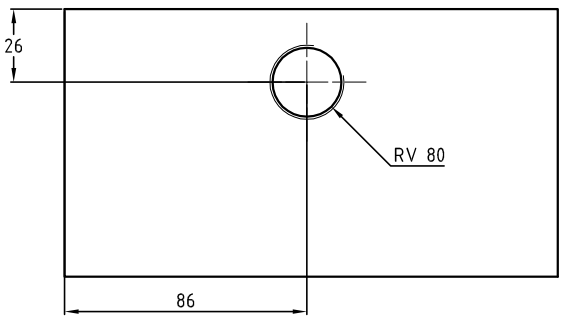
12 = attacchi da 1/2" BSP
12 = ports 1/2" BSP
34 = attacchi da 3/4" BSP (su richiesta)
34 = ports 3/4" BSP (on request)

MB 35

Piastre multiple in ghisa per elettrovalvole Cetop 05 con utilizzi A-B laterali
Monoblock in cast iron for electrovalves Cetop 05 with A-B side ports







Dimension table

	N° Stat.	L	l	Kg
solo versione 0 only version 0	1/0	100	84	6
solo ver. 1 or 2 only ver. 1 or 2	1/1	140	124	9
	2	175	159	11
	3	250	234	16
	4	325	309	21
	5	400	384	26
	6	475	459	31

Esempio di ordinazione - Ordering code

MB35 / * S ** * *

Monoblocco in ghisa Cetop 05
Block in cast iron Cetop 05

N° di posizioni
Stations number

S = attacchi A-B laterali
S = side ports A-B

Y=5÷55bar A=25÷110 bar B=50÷250 bar
C=75÷350 bar Q=80 lt/min

0 = senza valvola di max.
0 = without relief valve

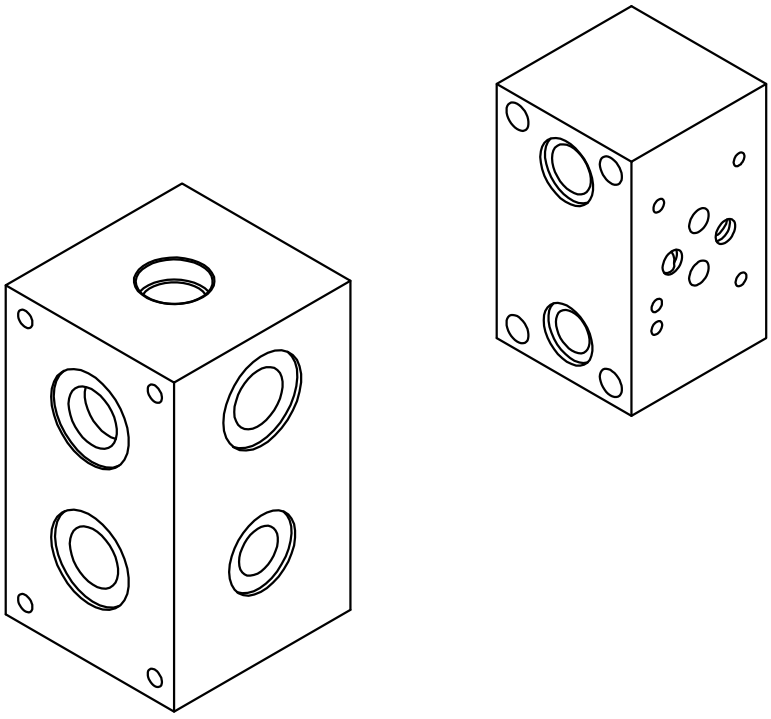
1 = pred. per valvola di max. RV 80
1 = prearranged for relief valve RV 80

2 = con valvola di max. RV 80 (pag. M06)
2 = with relief valve RV 80 (page M06)

12 = attacchi da 1/2" BSP
12 = ports 1/2" BSP

34 = attacchi da 3/4" BSP
34 = ports 3/4" BSP

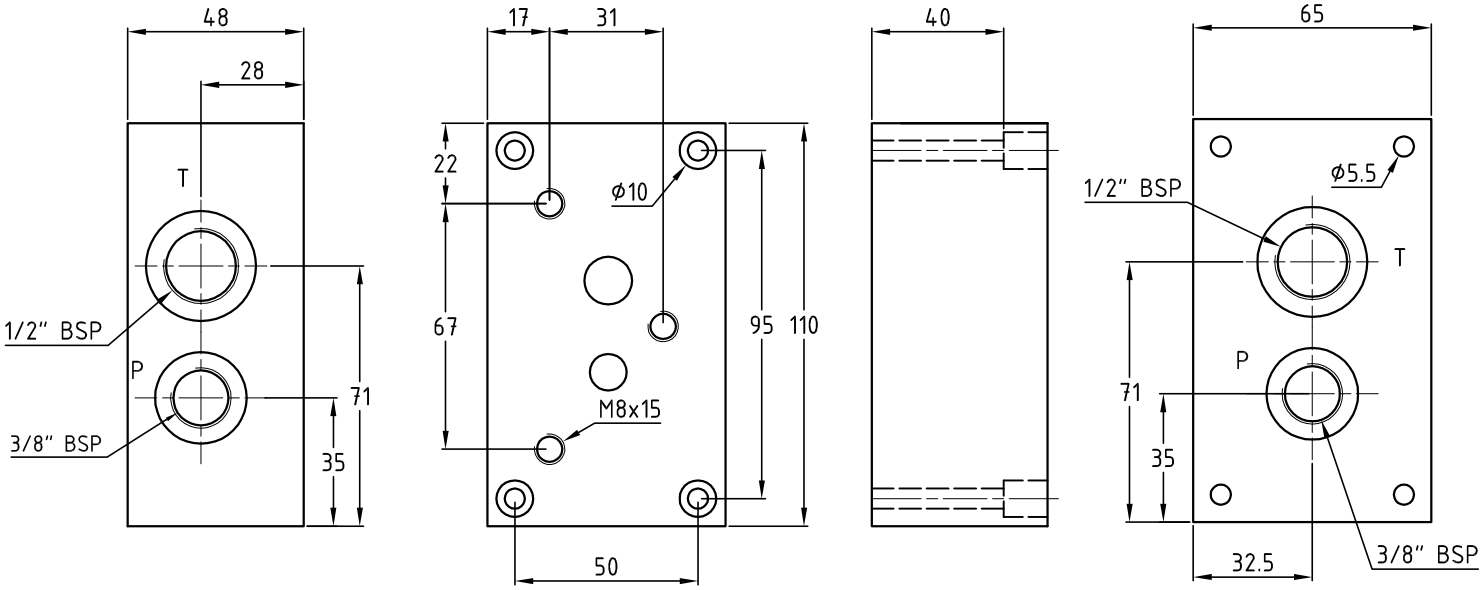
Piastre componibili Cetop 03
Packing plate Cetop 03



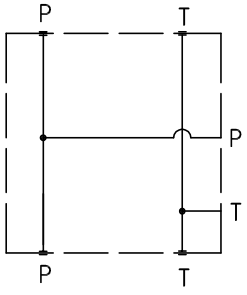
Sezione D
Section D

PC33B

Piastra di base in ghisa modulare a 3 tiranti
Basic element 3 tie-rods in cast iron



Hydraulic diagram



Fornita con \ Supplied with :
1 tappo\plug 1/4" BSP
1 tappo\plug 3/8" BSP

Peso\Weight 2,1 kg

Esempio di ordinazione - Ordering code

PC3 3 B

Piastra componibile in ghisa Cetop 03
Packing plate in cast iron Cetop 03

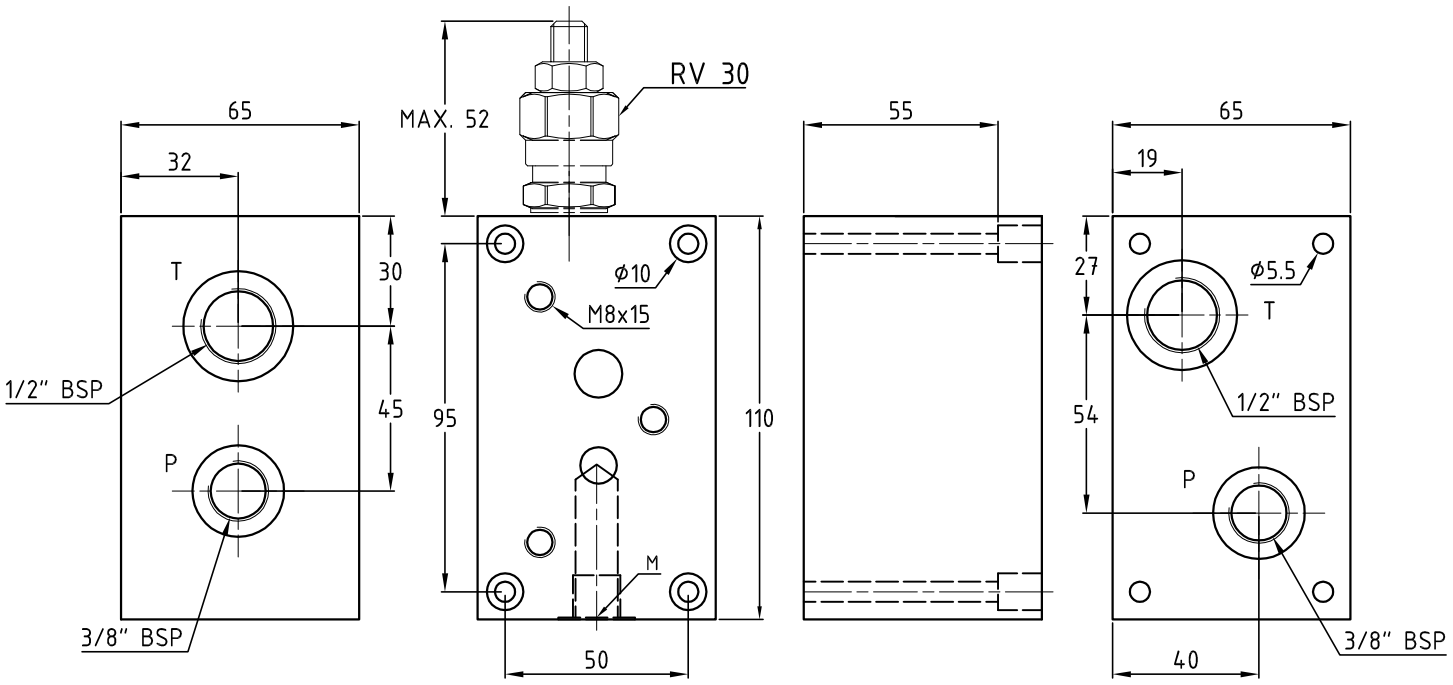
N° 3 tiranti
N° 3 tie-rods

Piastra di base
Basic element

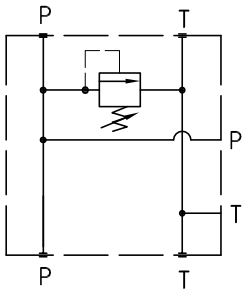
D01

PC33BM

Piastra di base modulare in ghisa a 3 tiranti con valvola di max.
Basic element 3 tie-rods in cast iron with relief valve



Hydraulic diagram



Peso\Weight 2,6 kg

Esempio di ordinazione – Ordering code

PC3 3 BM * *

Piastra componibile in ghisa Cetop 03
Packing plate in cast iron Cetop 03

N° 3 tiranti
N° 3 tie-rods

Piastra di base in ghisa con valvola di max.
Basic element in cast iron with relief valve

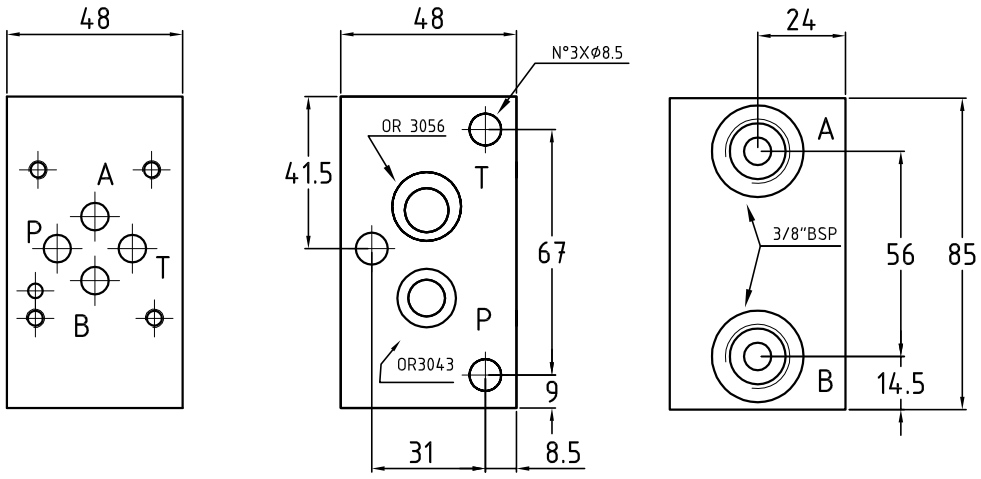
Y=5÷55 bar A=25÷110 bar B=50÷250 bar
C=100÷350 bar (page M02)

1 = pred. per valvola di max.
1 = prearranged for relief valve

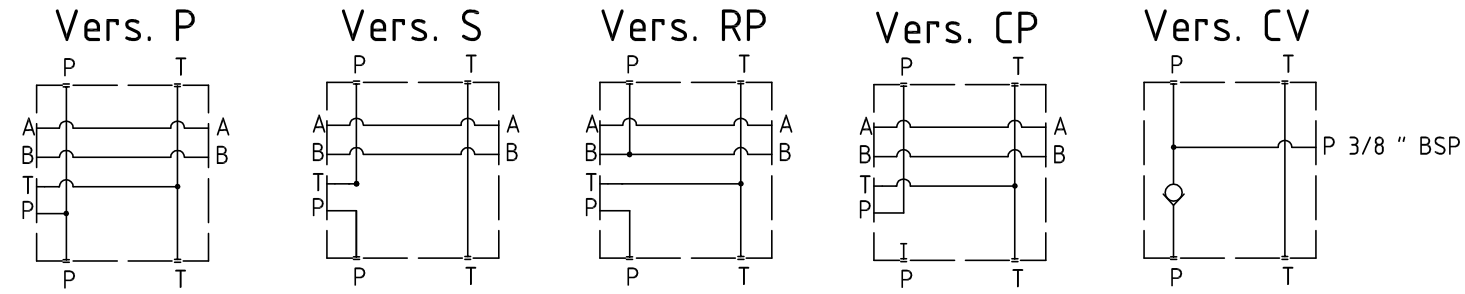
2 = con valvola di max.
2 = with relief valve

PC33I

Piastra intermedia modulare in ghisa a 3 tiranti
Intermediate element in cast iron 3 tie-rods version



Hydraulic diagram



Peso\Weight 1 kg

Esempio di ordinazione - Ordering code

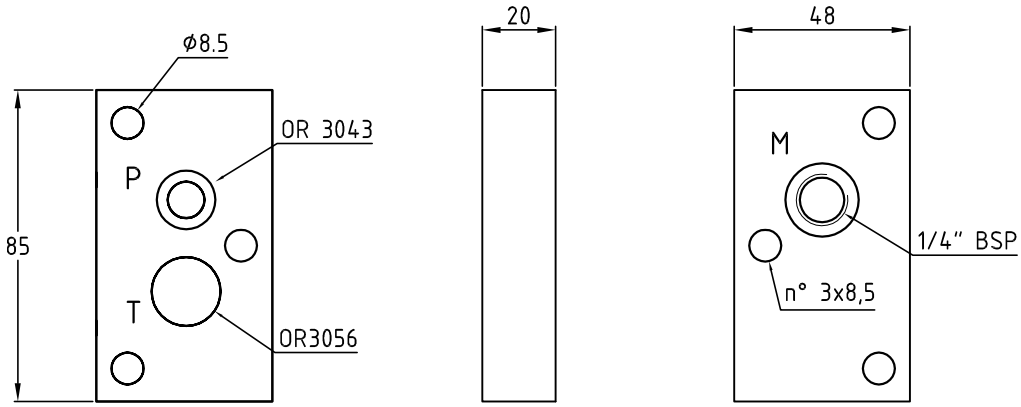
PC3 3 I / **

- PC3 — Piastra componibile in ghisa Cetop 03 / Packing plate in cast iron Cetop 03
- 3 — N° 3 tiranti / N° 3 tie-rods
- I — Piastra intermedia / intermediate element
- ** — Omettere se versione P / Omit if version P
  - S = versione S / S = versione S
  - RP = versione RP / RP = version RP
  - CP = versione CP / CP = version CP
  - CV = versione CV / CV = version CV

D03

PC33C

Piastra di chiusura in ghisa versione a 3 tiranti
Closing element in cast iron 3 tie-rods version



Peso\Weight 0.6 kg

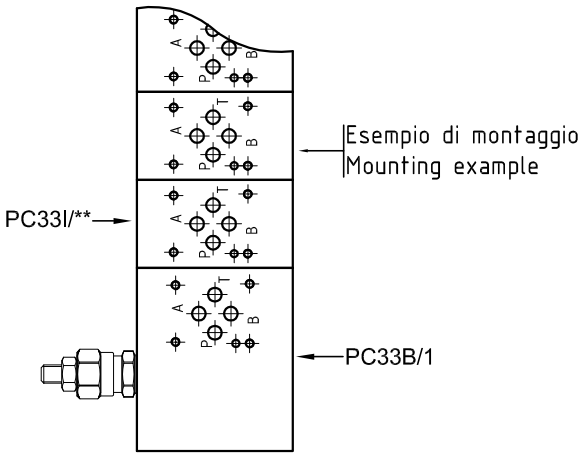
Esempio di ordinazione - Ordering code

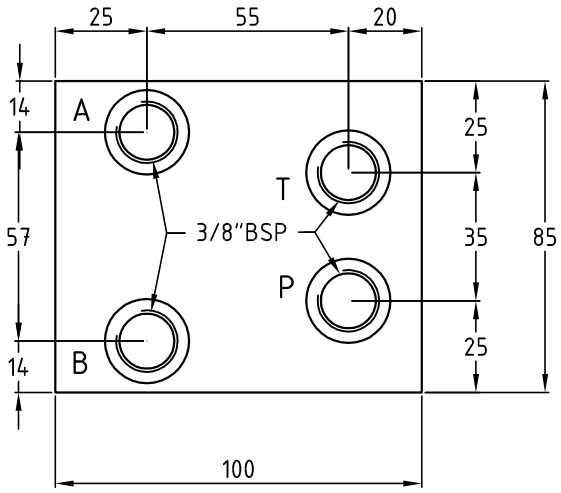
PC3 3 C

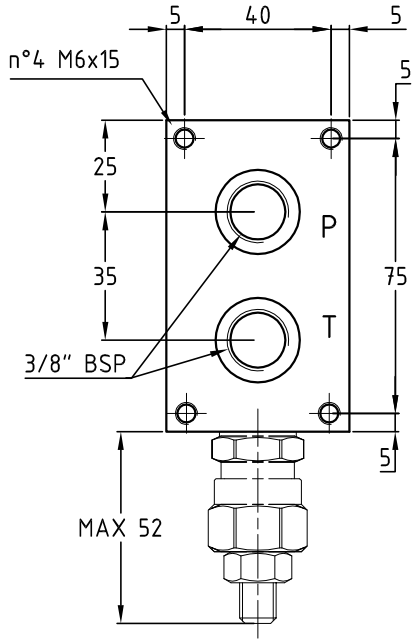
- PC3: Piastra componibile in ghisa Cetop 03 / Packing plate in cast iron Cetop 03
- 3: N° 3 tiranti / N° 3 tie-rods
- C: Piastra di chiusura / Closing element

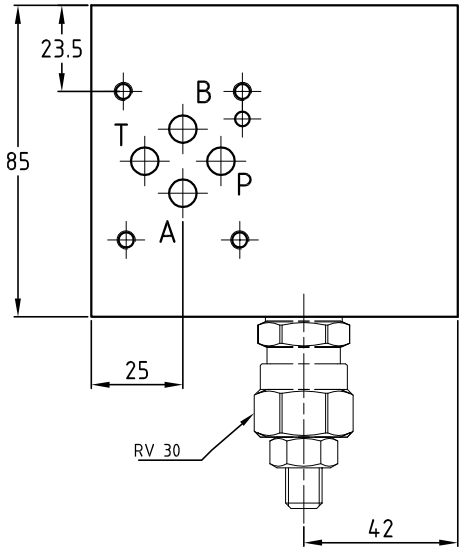
PC33B/1

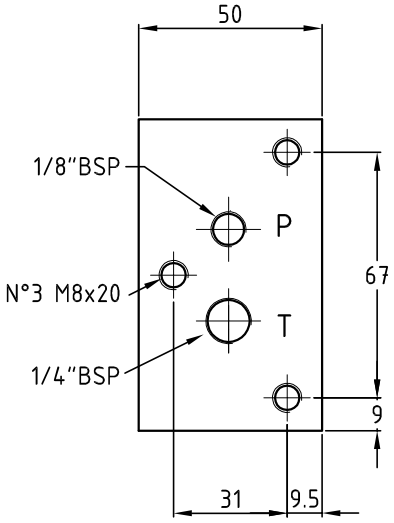
Piastra di base modulare in ghisa a 3 tiranti con 1 o più posizioni Cetop 03
Basic element in cast iron 3 tie-rods with 1 or more position Cetop 03











Peso\Weight 2,3 kg

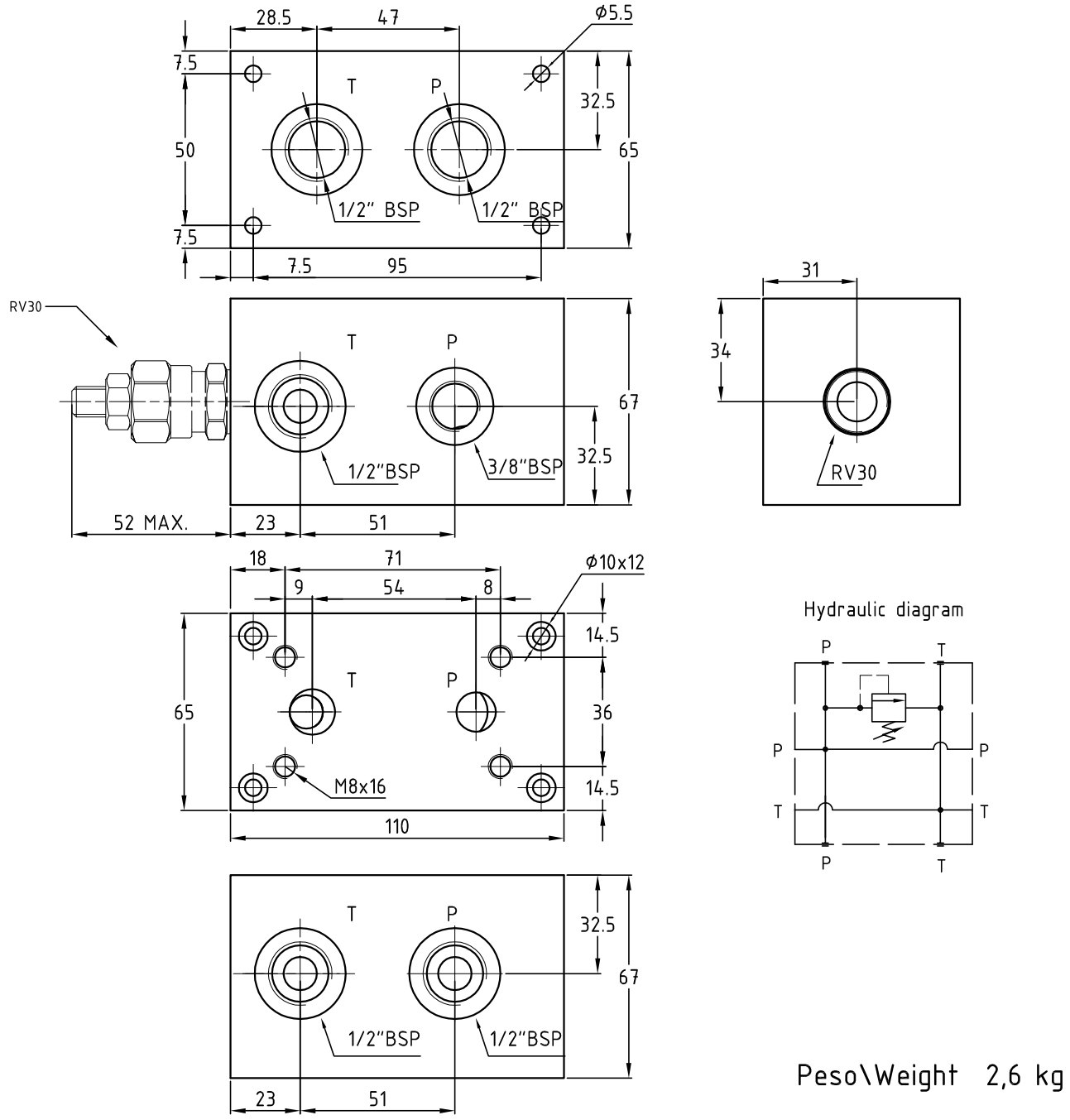
Esempio di ordinazione - Ordering code

PC3 3 B / 1 * *

- PC3 — Piastra componibile in ghisa Cetop 03 / Packing plate in cast iron Cetop 03
- 3 — N° 3 tiranti / N° 3 tie-rods
- B — Piastra di base / Basic element
- 1 — Con 1 pos. Cetop 03 / With 1 position Cetop 03
- * — 0 = senza valvola di max. / 0 = without relief valve; 1 = pred. per valvola di max. RV 30 / 1 = prearranged for relief valve RV 30; 2 = con valvola di max. RV 30 (pag. M02) / 2 = with relief valve RV 30 (page M02)
- * — Y=5÷55 bar A=25÷110 bar B=50÷250 bar C=100÷350 bar

PC34BM

Piastra di base modulare in ghisa a 4 tiranti con valvola di massima
Basic element in cast iron 4 tie-rods with relief valve



Hydraulic diagram

Peso\Weight 2,6 kg

Esempio di ordinazione - Ordering code

PC3 4 B M * *

Piastra componibile in ghisa Cetop 03
Packing plate in cast iron Cetop 03

N° 4 tiranti
N° 4 tie-rods

Piastra di base in ghisa
Basic element in cast iron

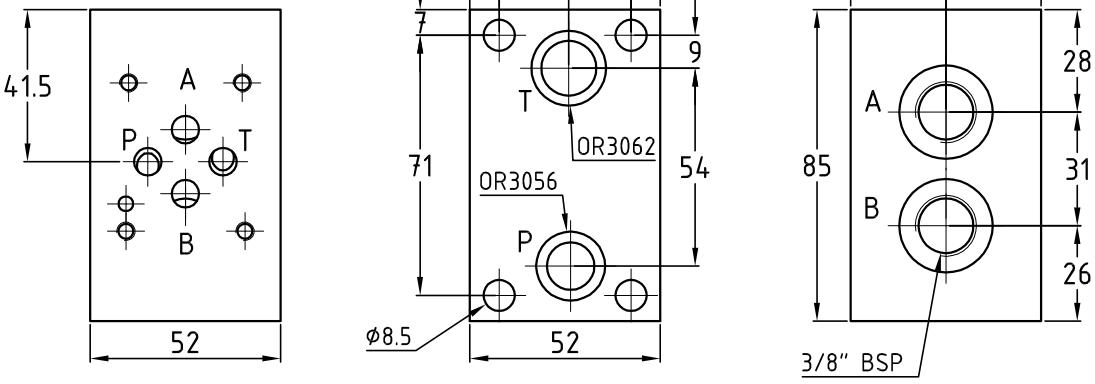
Y=5÷55 bar A=25÷110 bar B=50÷250 bar
C=100÷350 bar

1 = pred. per valvola di max. RV 30
1 = prearranged for relief valve RV 30

2 = con valvola di max. RV 30 (pag. M02)
2 = with relief valve RV 30 (page M02)

PC34I

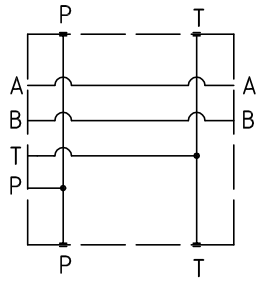
Piastra intermedia modulare in ghisa a 4 tiranti
Intermediate element in cast iron 4 tie-rods version



Hydraulic diagram

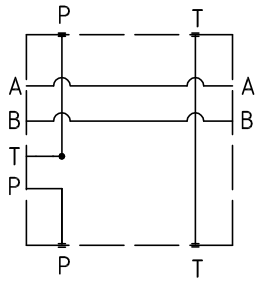
Peso\Weight 1,4 kg

Vers. P



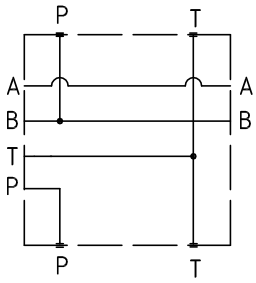
coll. in parallelo
parallel conn.

Vers. S

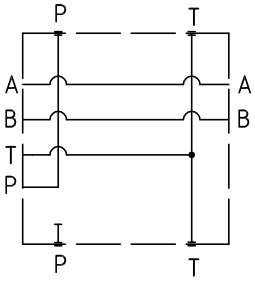


coll. in serie
series conn.

Vers. RP



Vers. CP



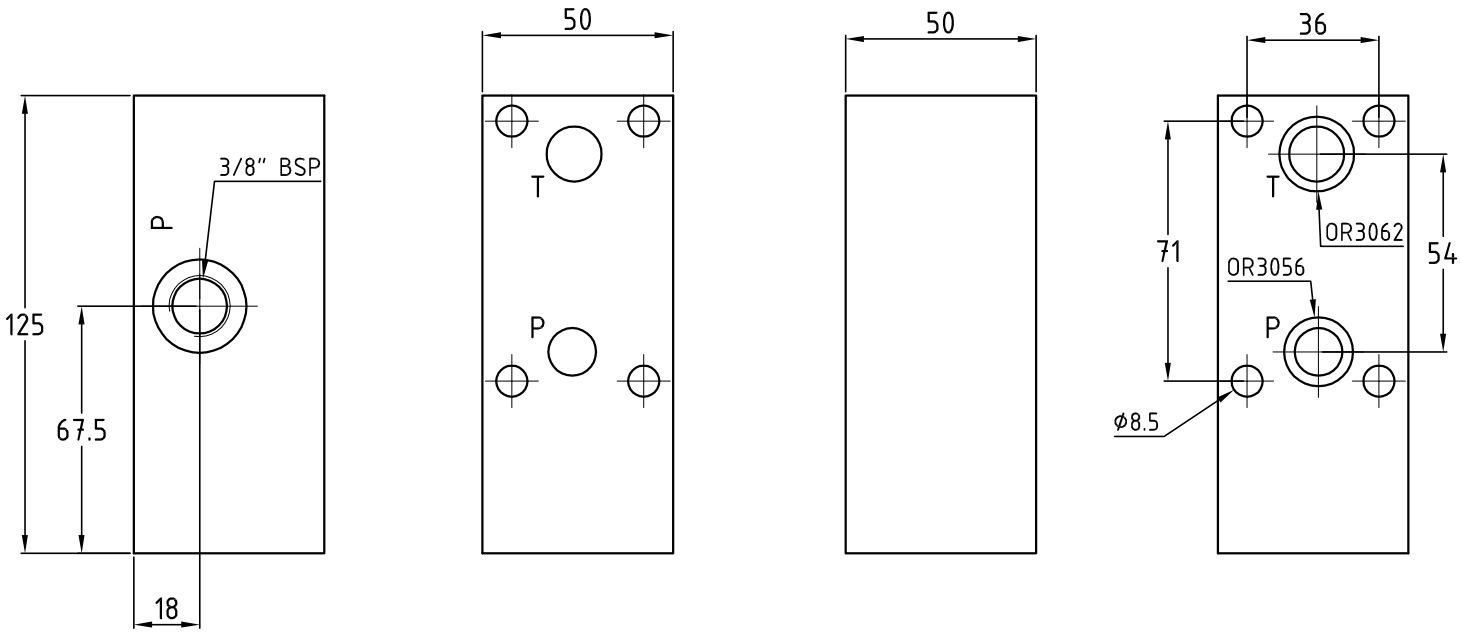
Esempio di ordinazione - Ordering code

PC3 4 I / **

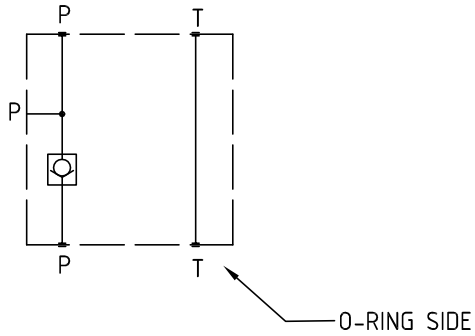
- PC3: Piastra componibile in ghisa Cetop 03 / Packing plate in cast iron Cetop 03
- 4: N° 4 tiranti / N° 4 tie-rods
- I: Piastra intermedia / intermediate element
- **: Omettere se coll. in parallelo P / Omit if parallel conn. P
  - S = collegamento in serie / S = series connection
  - RP = per valvola riduttrice / RP = for reducing valve
  - CP = versione simbolo CP / CP = vers. hydraulic symbol CP

PC34IAR

Piastra intermedia modulare in ghisa a 4 tiranti con ritegno
Intermediate element in cast iron 4 tie-rods version with check valve



Hydraulic diagram



Peso\Weight 2,1 kg

Esempio di ordinazione - Ordering code

PC3 4 I AR

Piastra componibile in ghisa Cetop 03
Packing plate in cast iron Cetop 03

N° 4 tiranti
N° 4 tie-rods

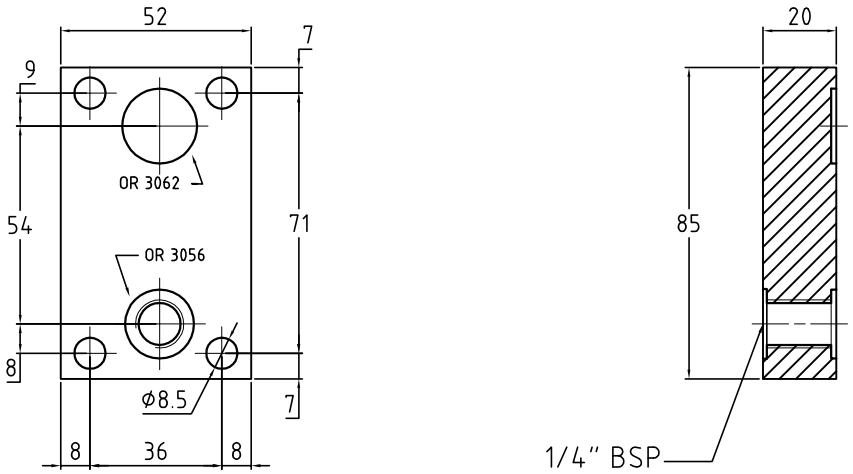
Piastra intermedia
intermediate element

AR = ritegno su P
AR = check valve on P side

PC34C

Piastra di chiusura in ghisa versione 4 tiranti

Closing element in cast iron 4 tie-rods version



Peso\Weight 0,5 kg

Esempio di ordinazione - ordering code

PC3 4 C

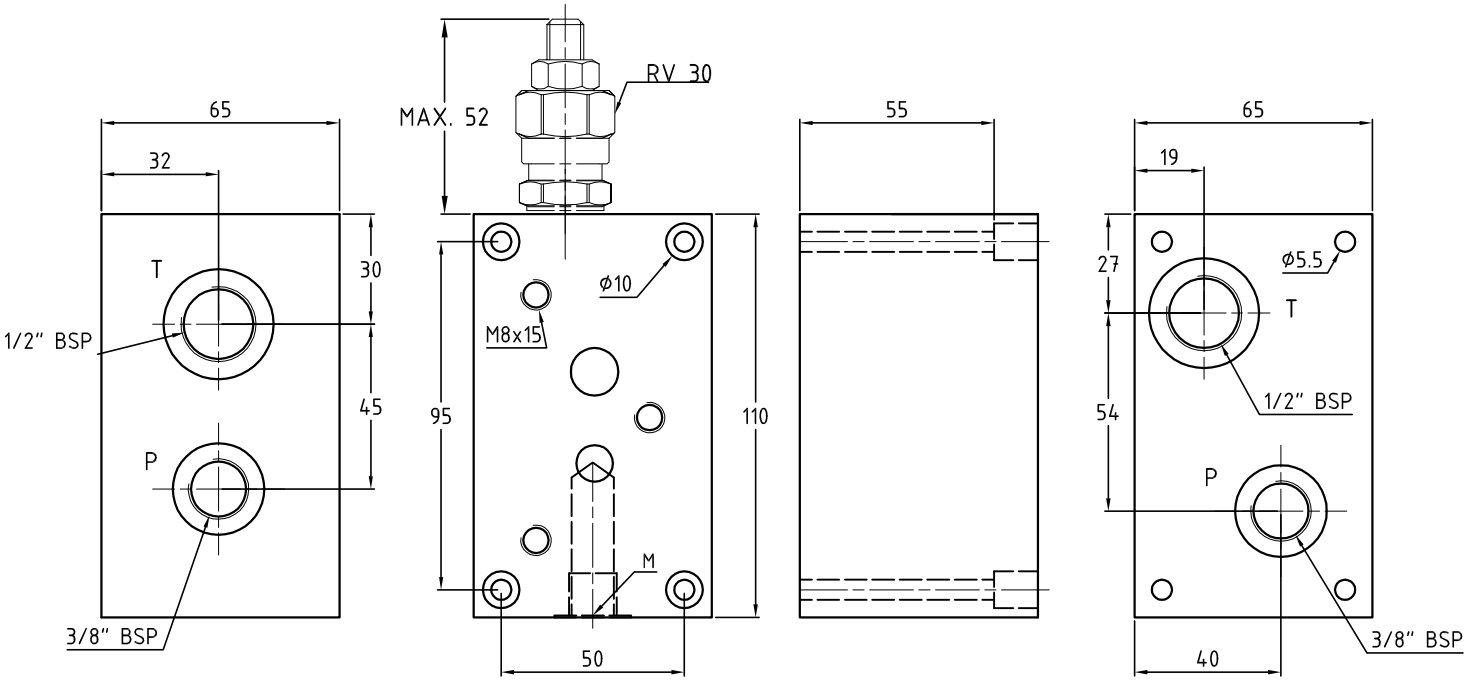
PC3 — Piastra componibile in ghisa Cetop 03 / Packing plate in cats iron Cetop 03

4 — N° 4 tiranti / N° 4 tie-rods

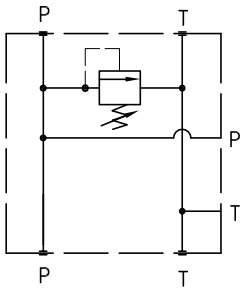
C — Piastra di chiusura in ghisa / Closing element in cast iron

PCA33BM

Piastra di base in alluminio a 3 tiranti con valvola di massima
Aluminium basic element 3 tie-rods with relief valve



Hydraulic diagram



Solo su ordinazione
Only on request

Esempio di ordinazione - Ordering code

PCA3 3 BM * *

Piastra componibile in alluminio Cetop 03
Packing plate in aluminium Cetop 03

N° 3 tiranti
N° 3 tie-rods

Piastra di base in all. con valvola di max.
Aluminium basic element with relief valve

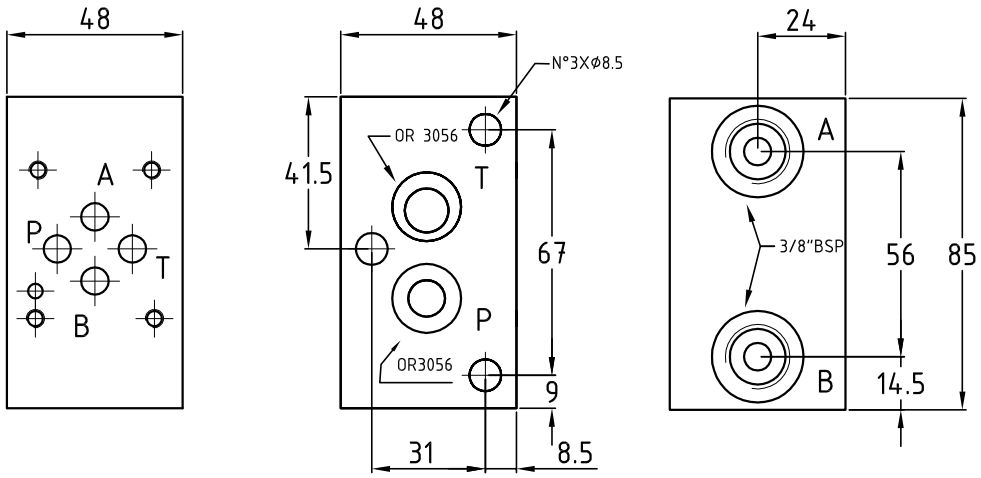
Y=5÷55 bar A=25÷110 bar B=50÷250 bar
C=100÷350 bar Q=30 l min

1 = pred. per valvola di max.
1 = prearranged for relief valve

2 = con valvola di max. RV 30 (pag. M02)
2 = with relief valve RV 30 (page M02)

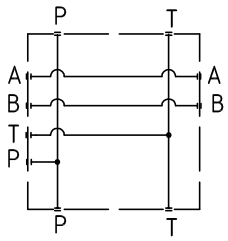
PCA33I

Piastra intermedia modulare in alluminio a 3 tiranti
Aluminium intermediate element 3 tie-rods version



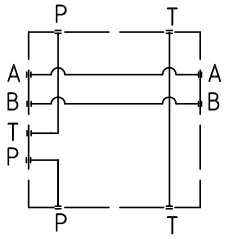
Hydraulic diagram

Vers. P



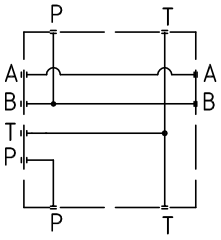
coll. in parallelo
parallel conn.

Vers. S

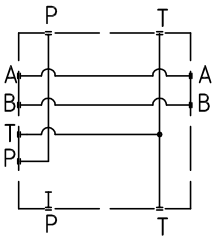


coll. in serie
series conn.

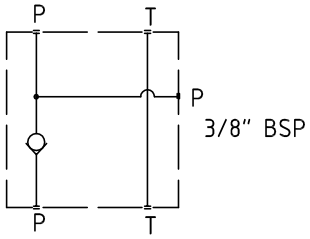
Vers. RP



Vers. CP



Vers. CV



Solo su ordinazione
Only on request

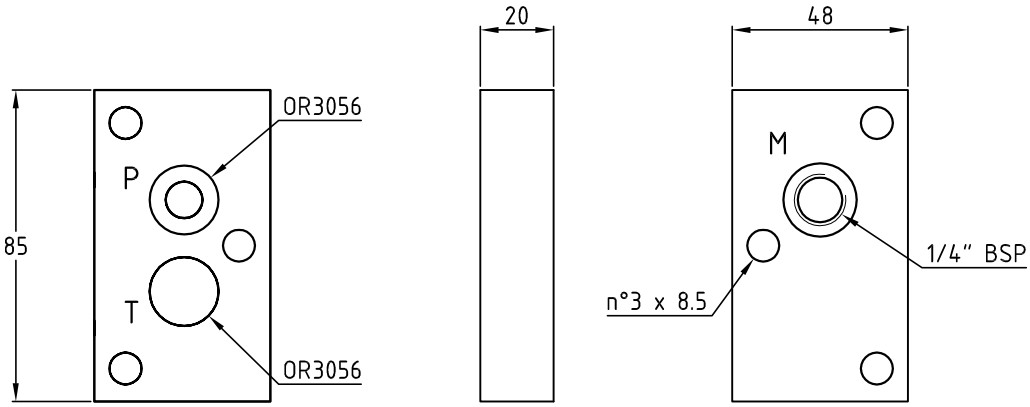
Esempio di ordinazione – Ordering code

PCA3 3 I / **

- PCA3 — Piastra componibile in alluminio Cetop 03 / Packing plate in aluminum Cetop 03
- 3 — N° 3 tiranti / N° 3 tie-rods
- I — Piastra intermedia / intermediate element
- ** — Omettere se Versione P / Omit if Version P
  - S = Version S / S = Version S
  - RP = Versione RP per valvola riduttrice / RP = Version RP for reducing valve
  - CP = Versione CP / CP = Version CP
  - CV = Versione CV con ritegno su bocca P / CV = Version CV with check valve on P port

PCA33C

Piastra di chiusura in alluminio versione 3 tiranti
Closing element in aluminium 3 tie-rods version



Solo su ordinazione
Onlyon request

Esempio di ordinazione - Ordering code

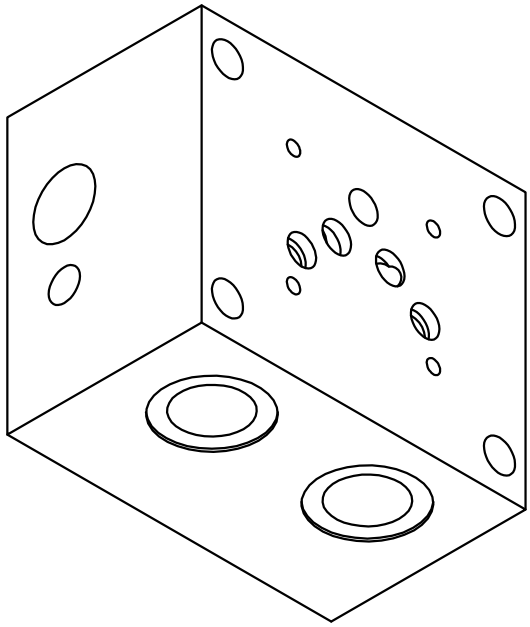
PCA3 3 C

Piastra componibile in alluminio Cetop 03
Packing plate in aluminium Cetop 03

N° 3 tiranti
N° 3 tie-rods

Piastra di chiusura
Closing element

Piastre singole Cetop 03-05
Single subplate Cetop 03-05

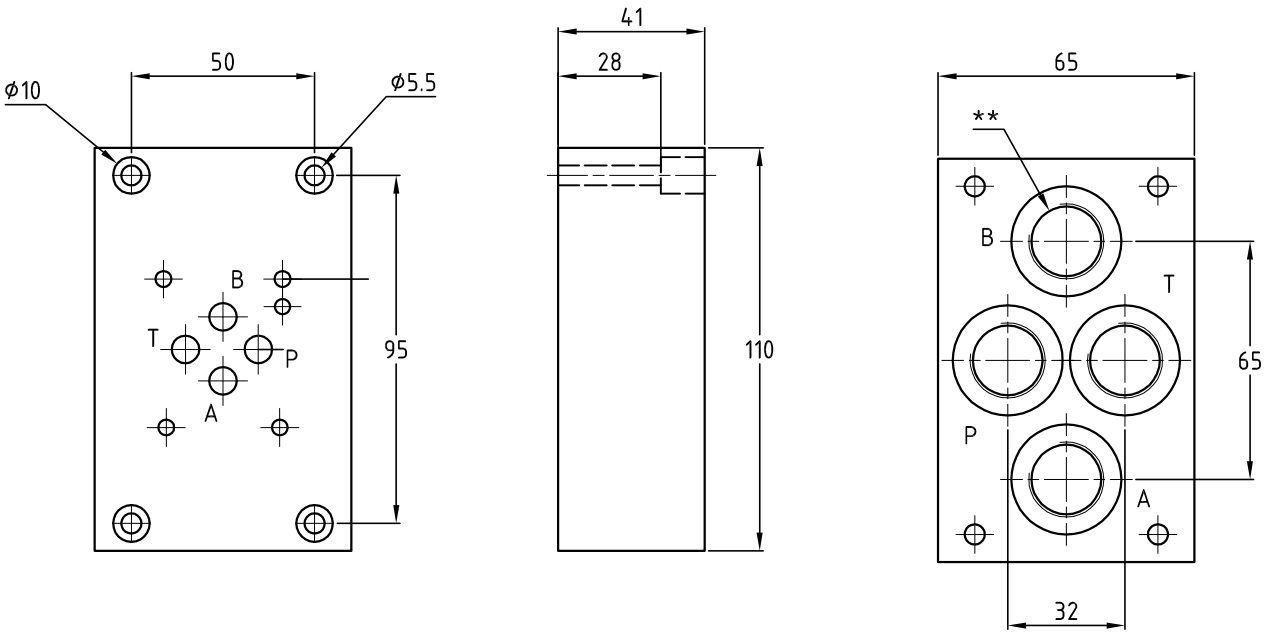


Sezione E
Section E

PS3R**

Piastra singola Cetop 03 in ghisa con attacchi posteriori

Basic element Cetop 03 in cast iron with rear ports



Peso\Weight 2 kg

Esempio di ordinazione - Ordering code

PS3 R **

Piastra singola Cetop 03 in ghisa
Single subplate Cetop 03 in cast iron

R = attacchi posteriori
R = rear ports

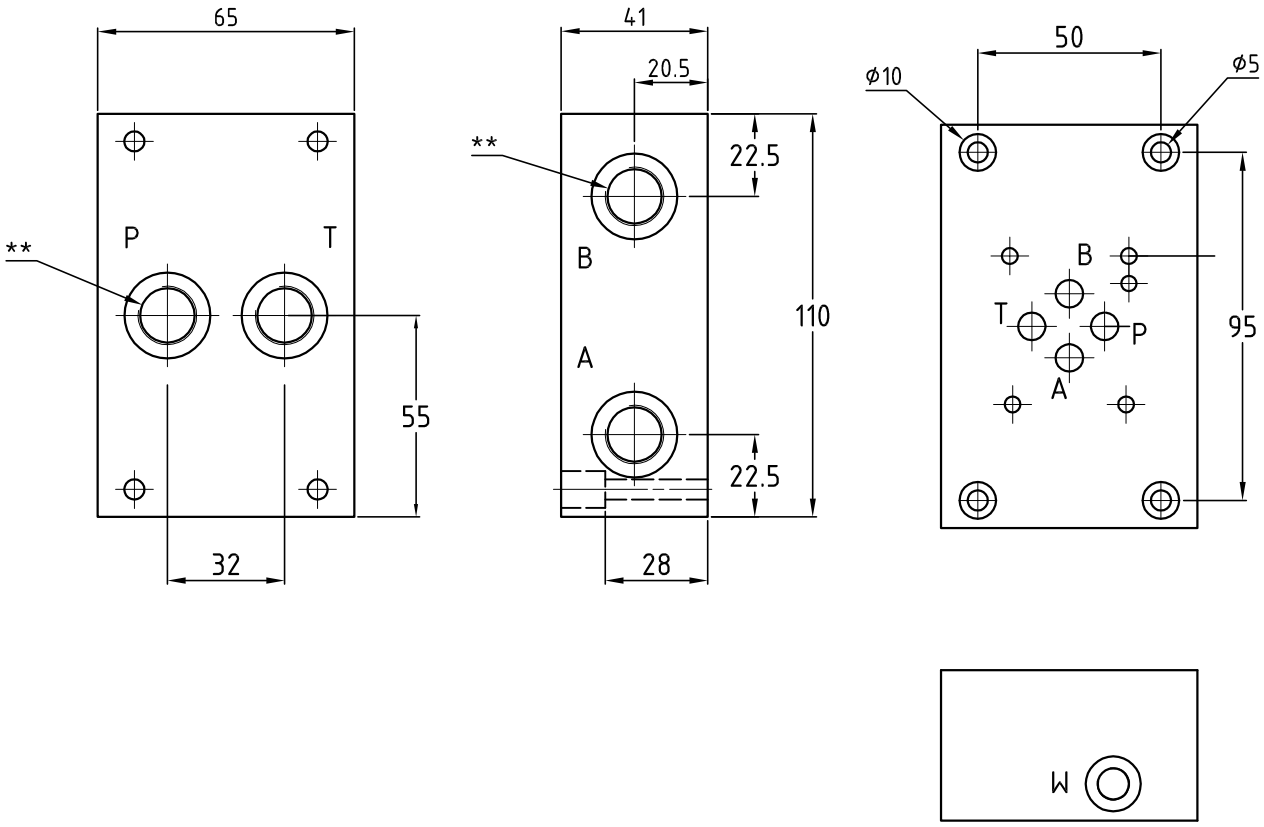
14 = attacchi 1/4" BSP
14 = ports 1/4" BSP

38 = attacchi 3/8" BSP
38 = ports 3/8" BSP

12 = attacchi 1/2" BSP
12 = ports 1/2" BSP

PS3RS**

Piastra singola Cetop 03 in ghisa con attacchi posteriori e laterali e att. man.
Basic element Cetop 03 in cast iron with rear and side ports with pressure gauge connection



Peso\Weight 2 kg

Esempio di ordinazione - Odering code

PS3 RS **

Piastra singola Cetop in ghisa
Single subplate Cetop 03 in cast iron

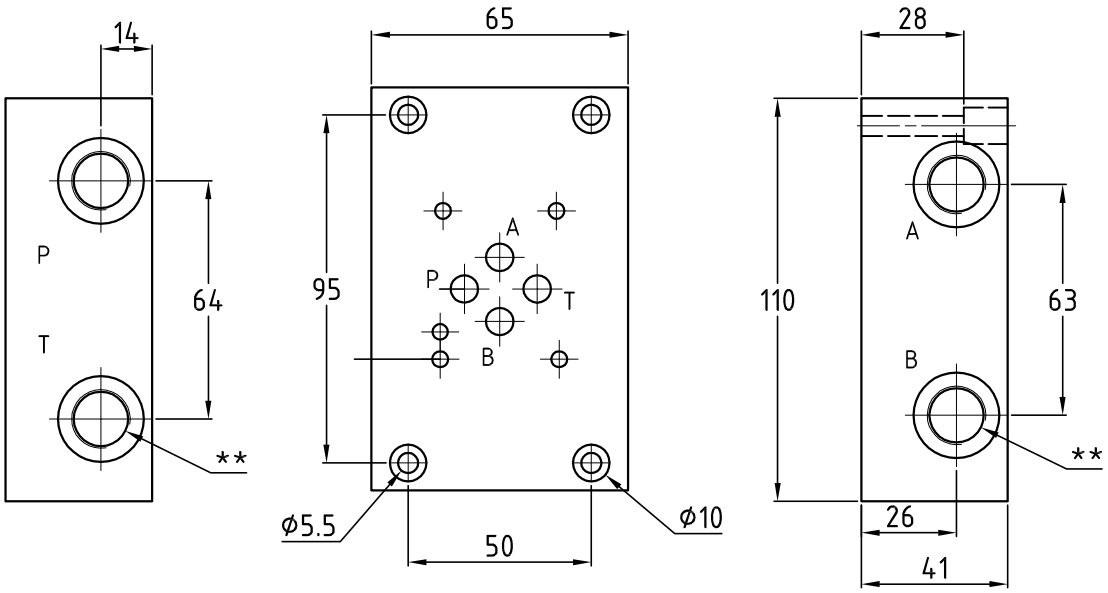
RS = attacchi posteriori e laterali
RS = rear and side ports

14 = attacchi 1/4" BSP
14 = ports 1/4" BSP

38 = attacchi 3/8" BSP
38 = ports 3/8" BSP

PS3SS**

Piastra singola in ghisa Cetop 03 con attacchi laterali
Basic element in cast iron Cetop 03 with side ports



Peso\Weight 2 kg

Esempio di ordinazione - Ordering code

PS3 SS **

Piastra singola Cetop 03 in ghisa
Single subplate Cetop 03 in cast iron

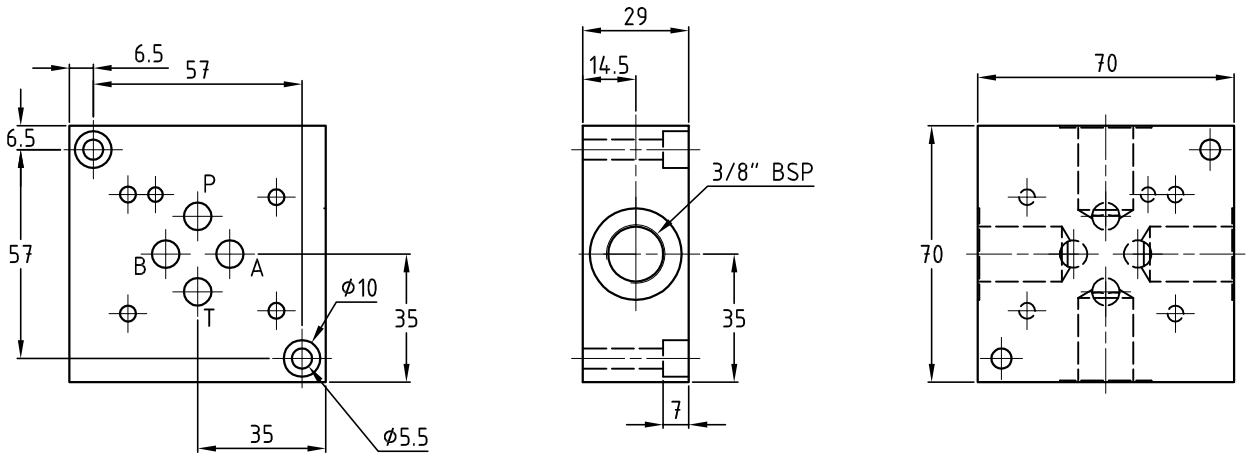
SS = attacchi laterali
SS = side ports

14 = attacchi 1/4" BSP
14 = ports 1/4" BSP

38 = attacchi 3/8" BSP
38 = ports 3/8" BSP

PSQA3S38

Piastra singola quadra Cetop 03 con attacchi laterali
Basic element Cetop 03 with side ports



Peso\Weight 0.35 kg

Esempio di ordinazione - Ordering code

PSQA3 S 38

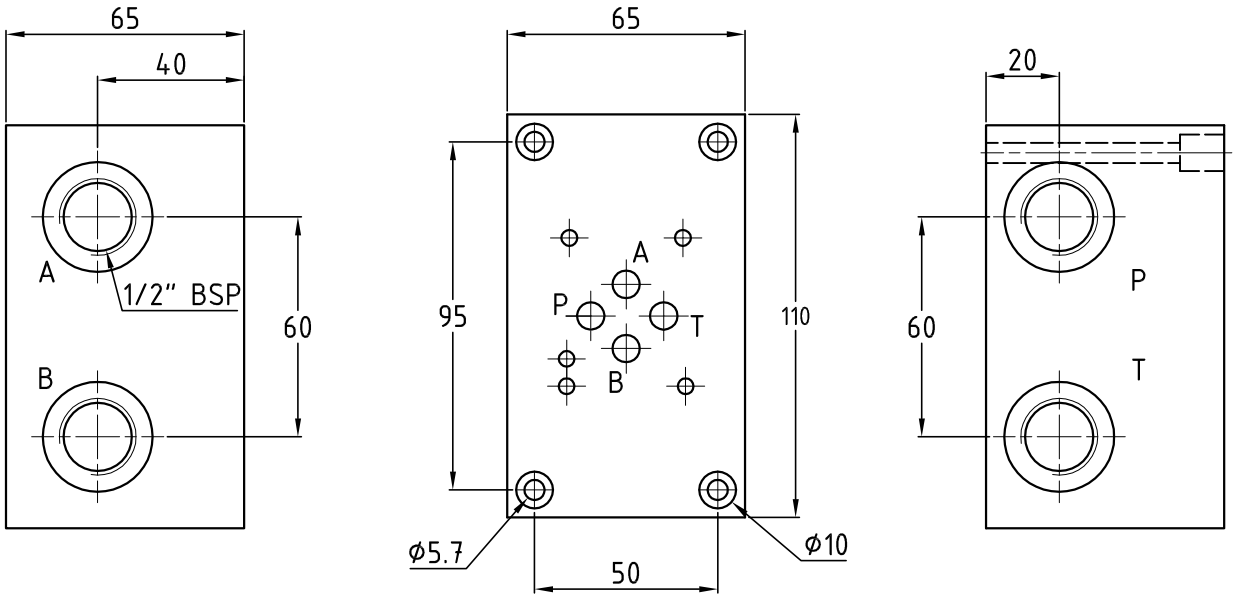
Piastra singola quadrata in alluminio Cetop 03
Single subplate square in aluminium Cetop 03

S = attacchi laterali
S = side ports

38 = attacchi 3/8" BSP
38 = ports 3/8" BSP

PS3SS12

Piastra singola Cetop 03 in ghisa con attacchi laterali
Basic element Cetop 03 in cast iron with side ports



Peso\Weight 2,6 kg

Esempio di ordinazione - Ordering code

PS3 SS 12

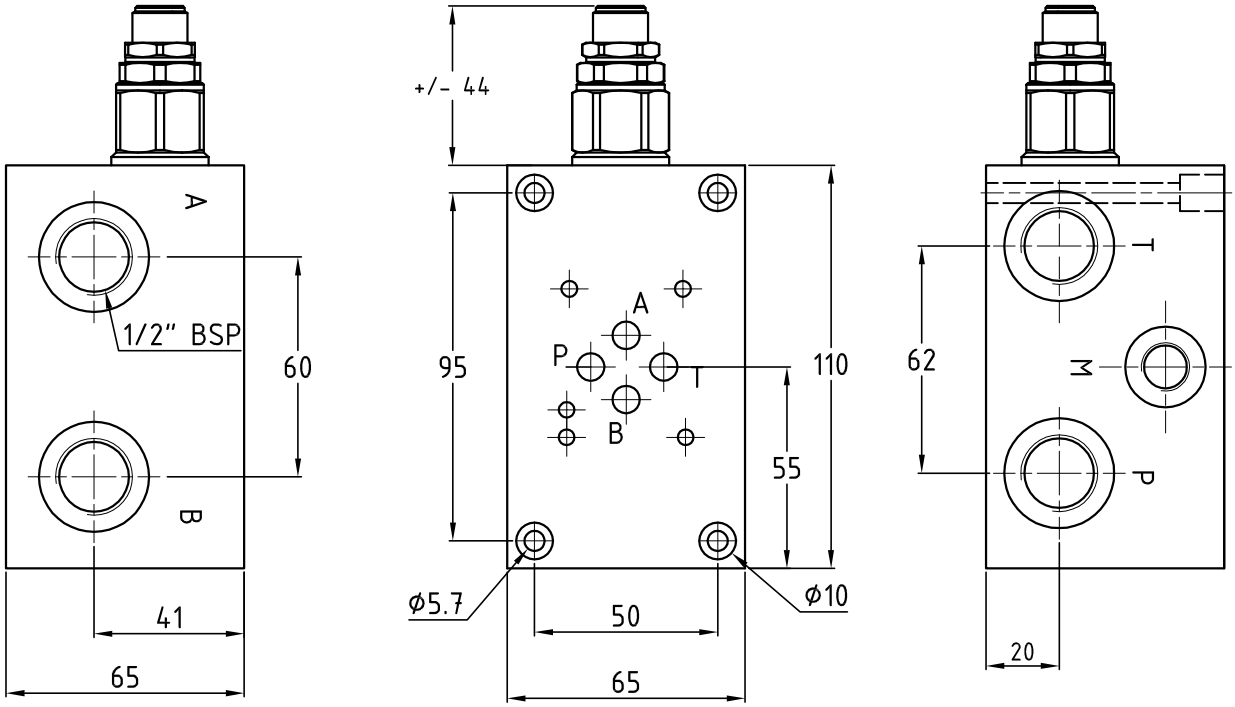
Piastra singola Cetop 03 in ghisa
Single subplate Cetop 03 in cast iron

SS = attacchi laterali
SS = side ports

12 = attacchi 1/2" BSP
12 = ports 1/2" BSP

PS3SS122*

Piastra singola Cetop 03 in ghisa con attacchi laterali e valvola di massima
Basic element Cetop 03 in cast iron with side ports with relief valve



Peso\Weight 2,9 kg

Esempio di ordinazione - Ordering code

PS3 SS 12 2 *

Piastra singola Cetop 03 in ghisa
Single subplate Cetop 03 in cast iron

SS = attacchi laterali
SS = side ports

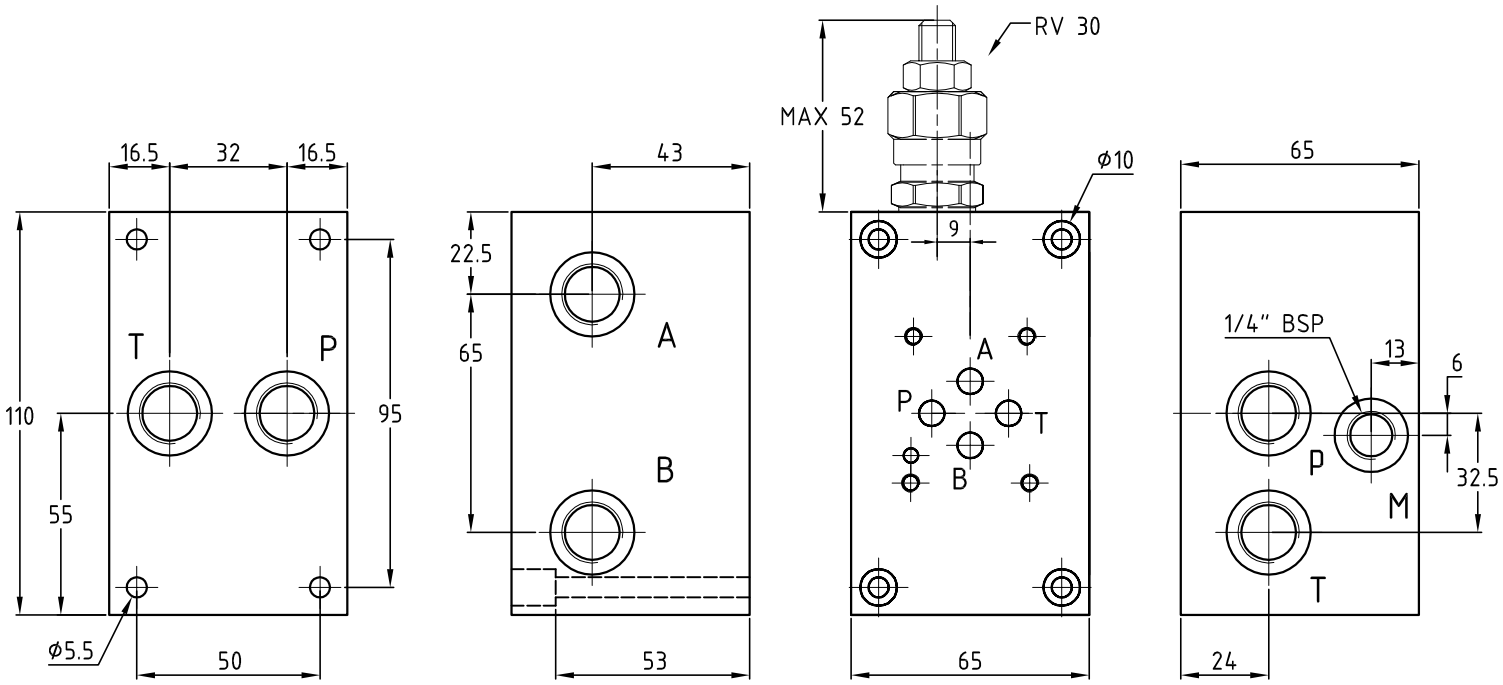
12 = attacchi 1/2" BSP
12 = ports 1/2" BSP

2 = con valvola di max. RV 50 78 (pag. M04)
2 = with relief valve RV 5078 (page M04)

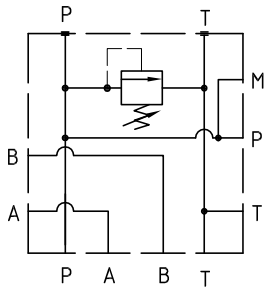
Y=15÷50 bar A=51÷120 bar B=121÷200 bar
C=201÷350 bar

PS3RS382**

Piastra di base Cetop 03 in ghisa con valvola di max.
Basic element in cast iron Cetop 03 with relief valve



Hydraulic diagram



Peso\Weight 2,6 kg

Esempio di ordinazione - Ordering code

PS3 RS 38 * *

Piastra singola Cetop 03 in ghisa
Basic element Cetop 03 in cast iron

RS = attacchi posteriori e laterali
RS = rear and side ports

38 = attacchi 3/8" BSP
38 = ports 3/8" BSP

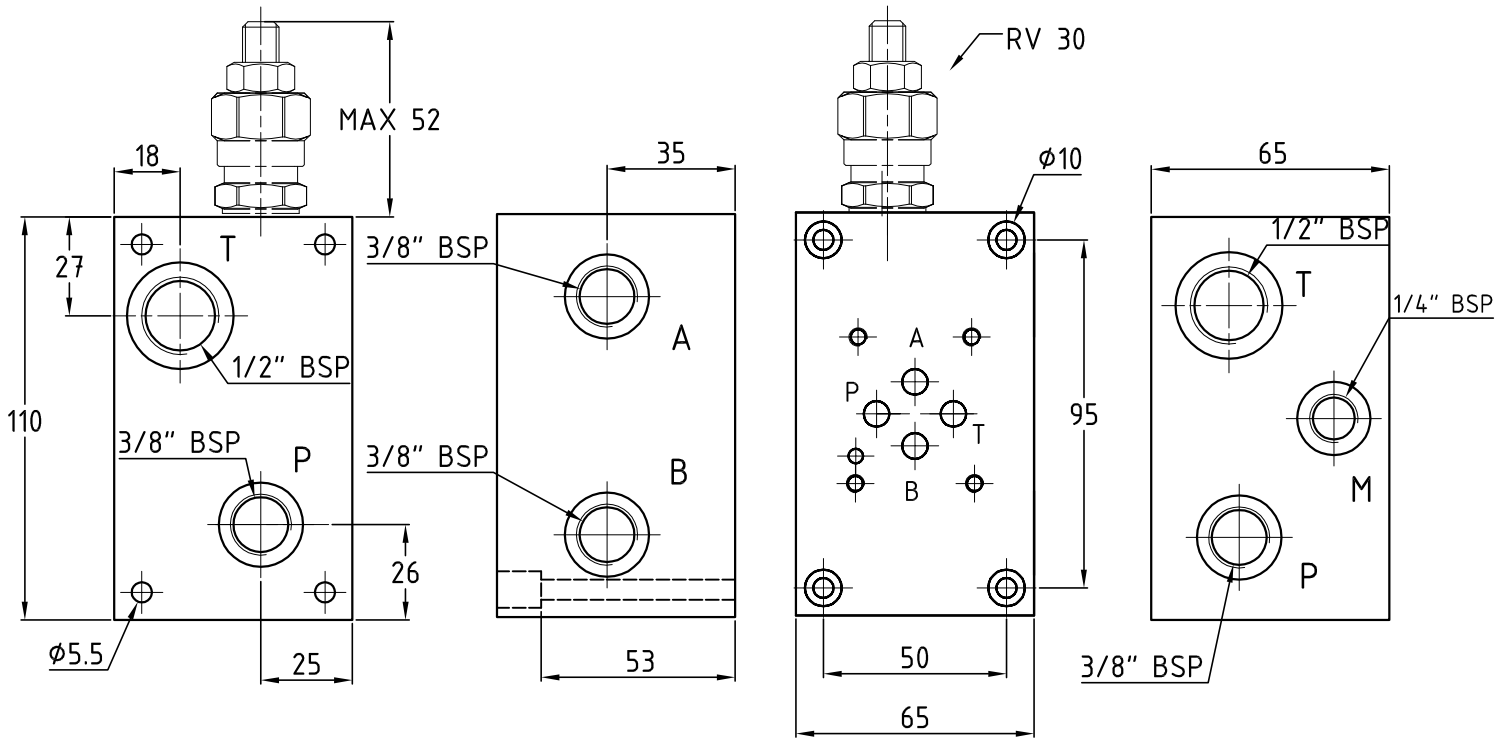
Y=5÷55 bar A=25÷110 bar B=50÷250 bar
C=100÷350 bar

1 = pred. per valvola di max. RV 30
1 = prearranged for relief valve RV 30

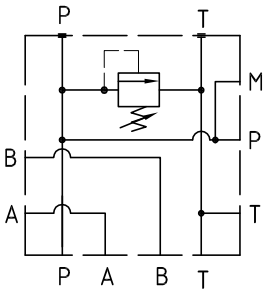
2 = con valvola di max. RV 30 (pag. M02)
2 = with relief valve RV 30 (page M02)

PS3RS12**

Piastra di base Cetop 03 in ghisa con valvola di max. T=1/2" BSP
Basic element Cetop 03 in cast iron with relief valve T=1/2" BSP



Hydraulic diagram



Peso\Weight 2,6 kg

Esempio di ordinazione – Ordering code

PS3 RS 12 * *

Piastra singola Cetop 03 in ghisa
Basic element Cetop 03 in cast iron

RS = attacchi posteriori e laterali
RS = rear and side ports

12 = attacco T 1/2" BSP
12 = T ports 1/2" BSP

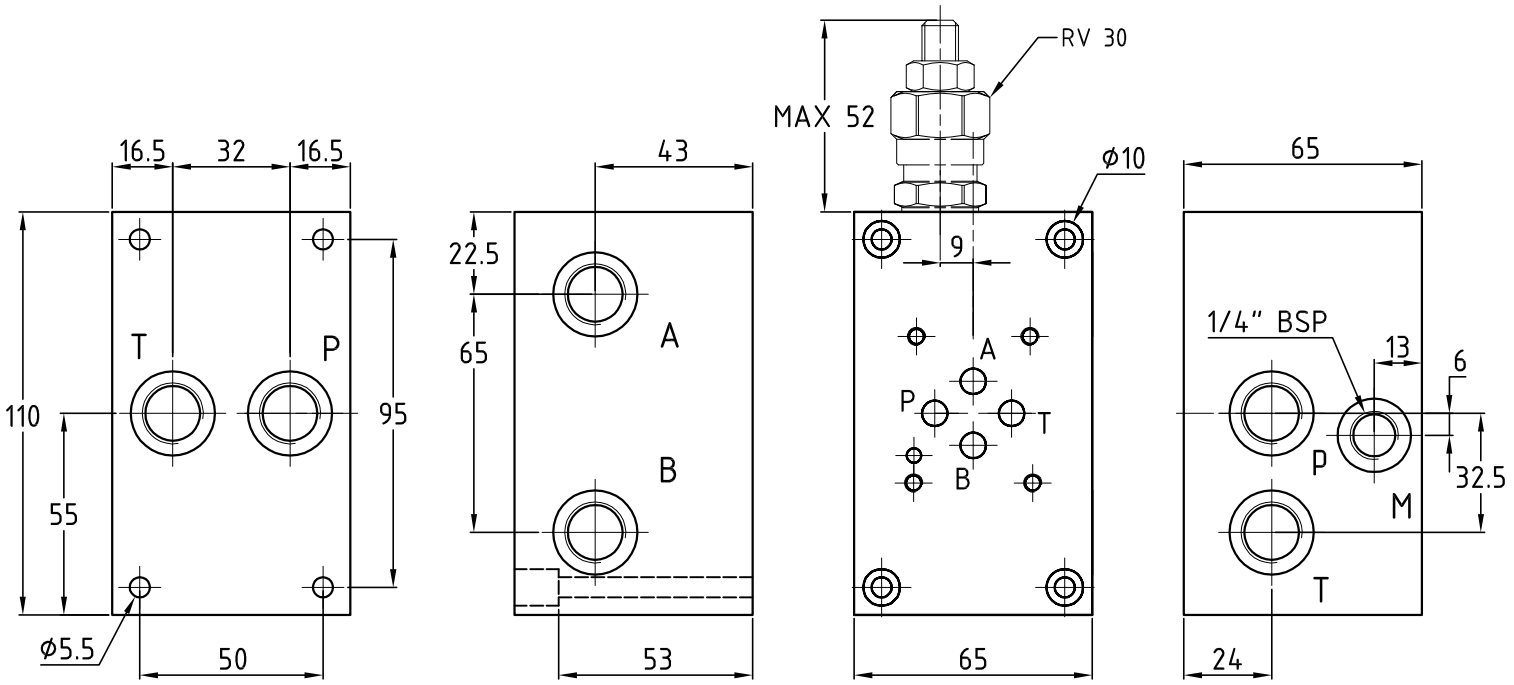
Y=5÷55 bar A=25÷110 bar B=50÷250 bar
C=100÷350 bar

1 = pred. per valvola di max. RV 30
1 = prearranged for relief valve RV 30

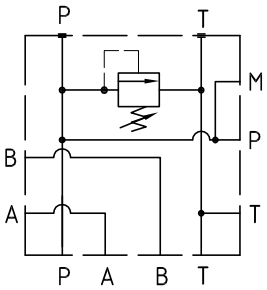
2 = con valvola di max. RV 30 (pag. M02)
2 = with relief valve RV 30 (page M02)

PSA3RS382**

Piastra di base in alluminio Cetop 03 con valvola di massima
Basic element in aluminium Cetop 03 with relief valve



Hydraluic diagram



Peso\Weight 1,4 kg

Esempio di ordinazione - Ordering code

PSA3 RS 38 * *

Piastra singola Cetop 03 in alluminio
Basic element Cetop 03 in alluminium

RS = attacchi posteriori e laterali
RS = rear and side ports

38 = attacchi 3/8" BSP
38 = ports 3/8" BSP

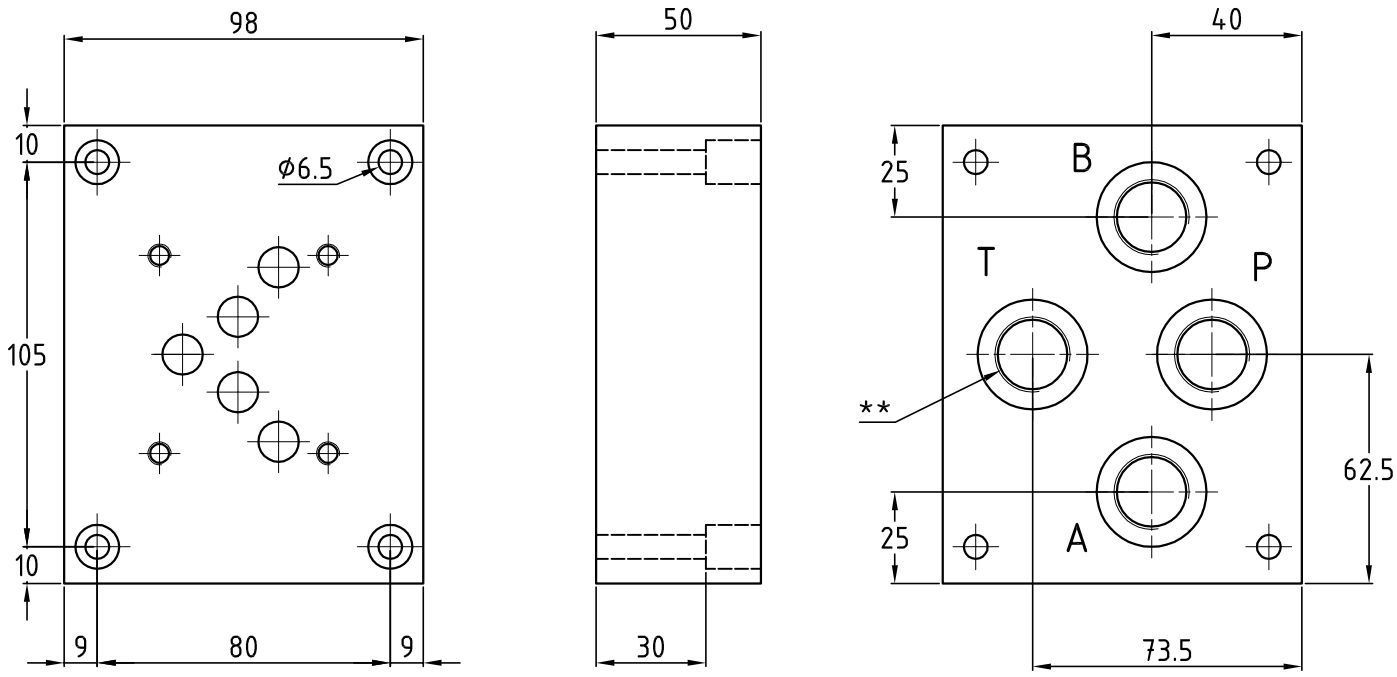
Y=5÷55 bar A=25÷110 bar B=50÷250 bar

1 = pred. per valvola di max. RV 30
1 = prearranged for relief valve RV 30

2 = con valvola di max. RV 30 (pag. M02)
2 = with relief valve RV 30 (page M02)

PS5R**

Piastra singola Cetop 05 in ghisa con attacchi posteriori
Basic element Cetop 05 in cast iron with rear ports



Peso\Weight 3,6 kg

Esempio di ordinazione - Ordering code

PS5 R **

Piastra singola cetop 05 in ghisa
Single subplate cetop 05 in cast iron

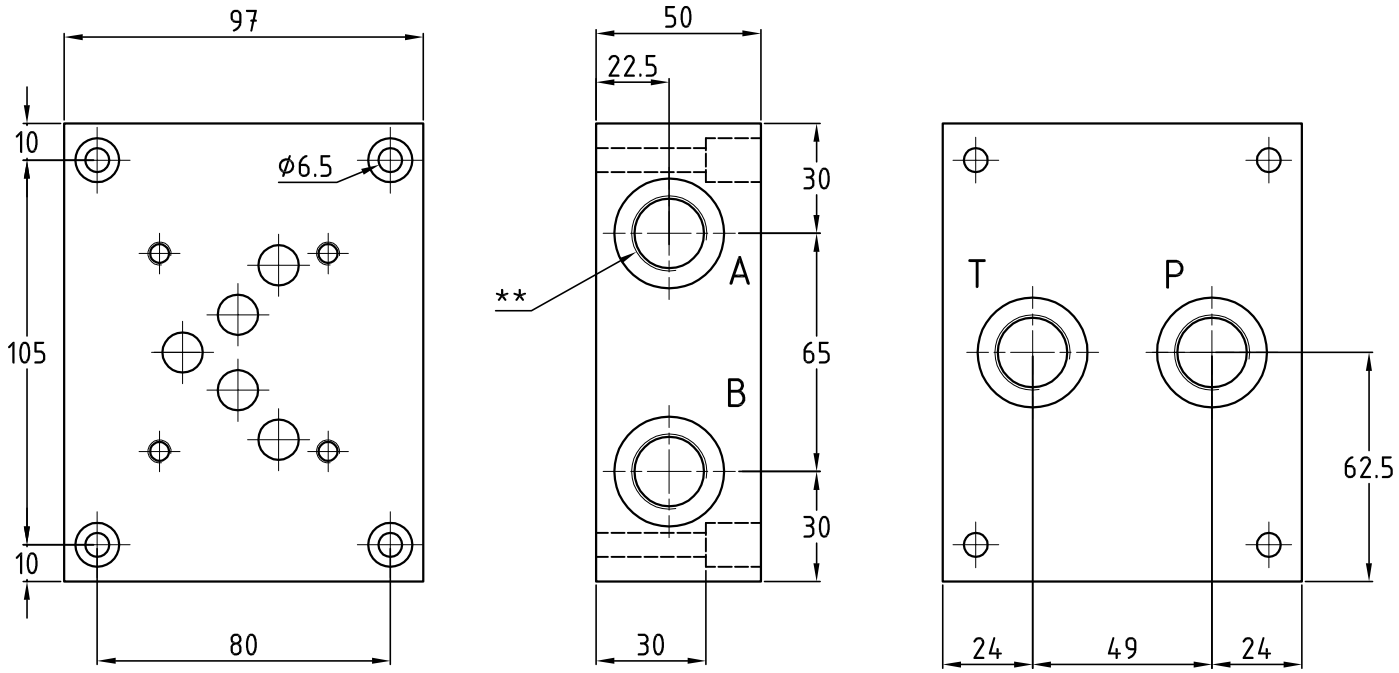
R=attacchi posteriori
R=rear ports

12=attacchi 1/2"BSP
12=ports 1/2"BSP

34=attacchi 3/4"BSP
34=ports 3/4"BSP

PS5RS**

Piastra singola Cetop 05 in ghisa con A-B laterali P-T posteriori
Basic element Cetop 05 in cast iron with A-B side ports P-T rear ports



Peso\Weight 3,6 kg

Esempio di ordinazione - Ordering code

PS5 RS **

Piastra singola cetop 05 in ghisa
Single subplate cetop 05 in cast iron

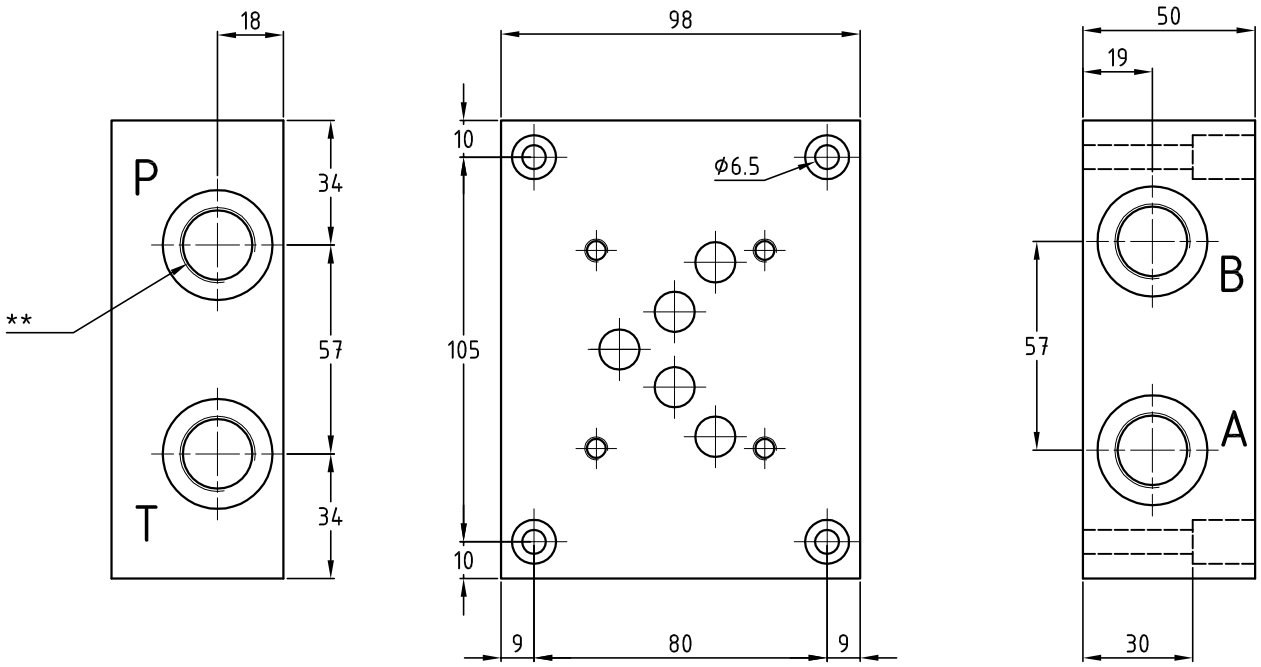
RS=attacchi posteriori e laterali
RS=rear and side ports

12=attacchi 1/2" BSP
12=ports 1/2" BSP

34=attacchi 3/4" BSP
34=ports 3/4" BSP

PS5SS**

Piastra singola Cetop 05 in ghisa con attacchi laterali
Basic element Cetop 05 in cast iron with side ports



Peso\Weight 3,6 kg

Esempio di ordinazione - Ordering code

PS5 SS **

Piastra singola cetop 05 in ghisa
Single subplate cetop 05 in cast iron

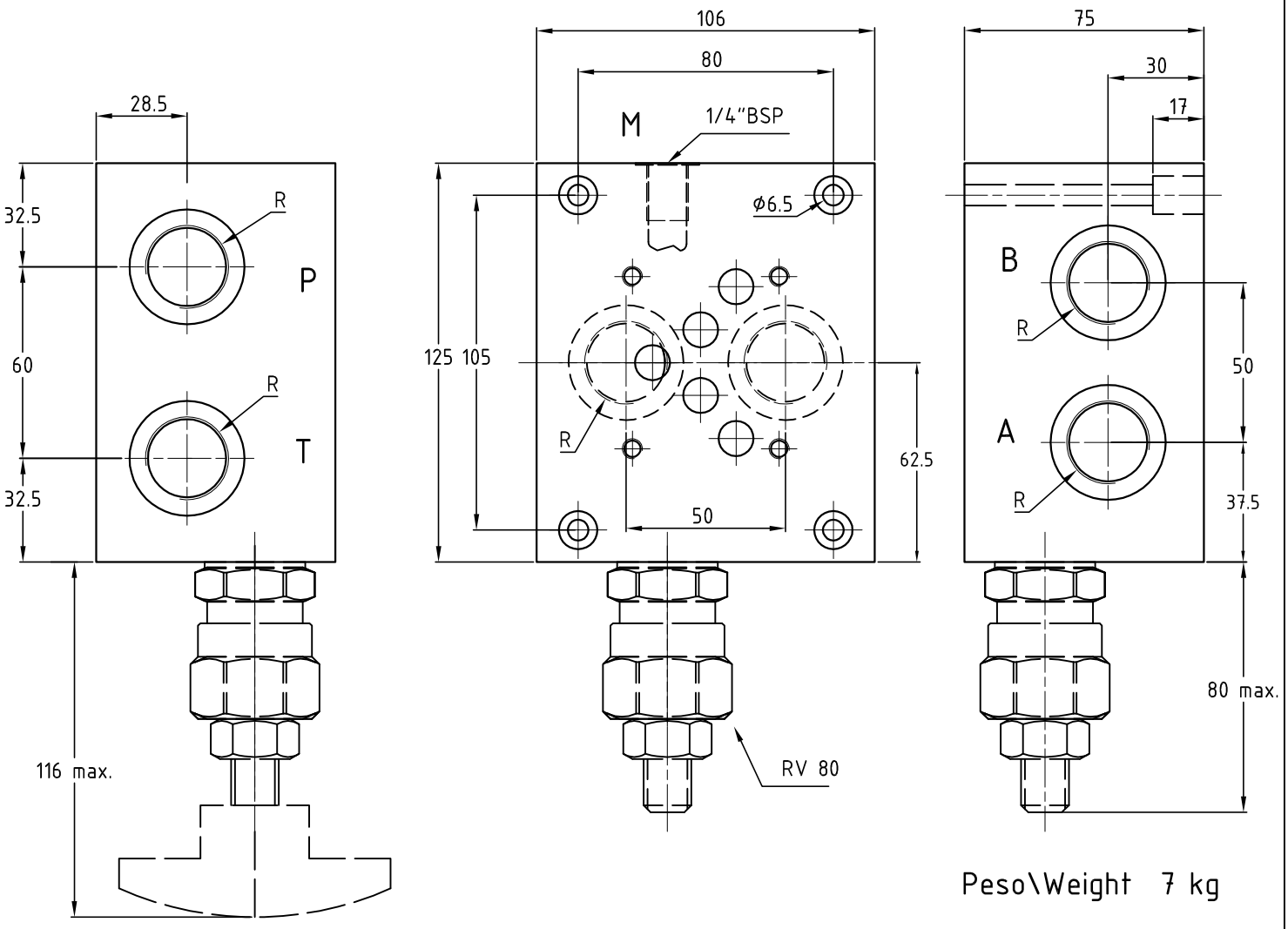
SS=attacchi laterali
SS=side ports

12=attacchi 1/2"BSP
12=ports 1/2"BSP

34=attacchi 3/4"BSP
34=ports 3/4"BSP

PS5**342

Piastra singola Cetop 05 in ghisa con valvola di massima pressione
Single subplate Cetop 05 in cast iron with pressure relief valve



Peso\Weight 7 kg

Esempio di ordinazione - Ordering code

PS5 ** 34 2 * *

PS5 — Piastra singola Cetop 05 in ghisa / Single subplate Cetop 05 in cast iron

** — RS = attacchi P T post. e lat. A B solo laterali / RS = rear and side ports P T , A B ports side only
** — SS = solo attacchi laterali A B P T / SS = only side ports A B P T

34 = attacchi 3/4" BSP / 34 = ports 3/4" BSP

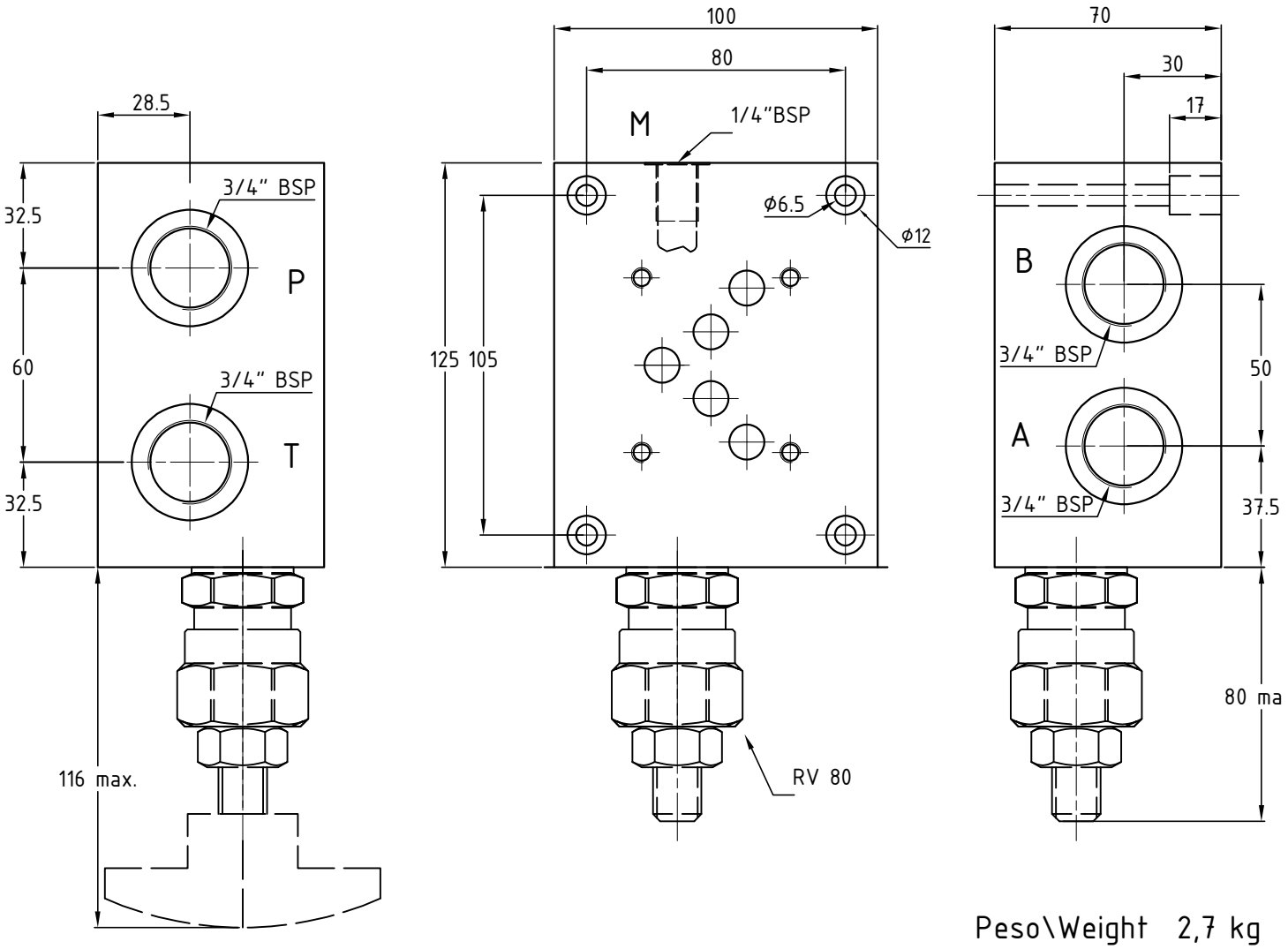
2 = Con valv. max RV80 (pagina M06) / 2 = With relief valve RV80 (page M06)

* — Y=5÷55 bar A=25÷110 bar B=50÷250 bar C=75÷350 bar

* — V=Con volantino (altrimenti omettere) / V=With handiwheel (otherwise omit it)

PSA5SS342

Piastra singola Cetop 05 in alluminio con valvola di massima
Aluminium single subplate Cetop 05 with pressure relief valve



Peso\Weight 2,7 kg

Esempio di ordinazione - Ordering code

PSA5 SS 34 2 * *

Piastra singola Cetop 05 in alluminio
Single subplate Cetop 05 in aluminium

SS = attacchi laterali
SS = side ports

34 = attacchi 3/4" BSP
34 = ports 3/4" BSP

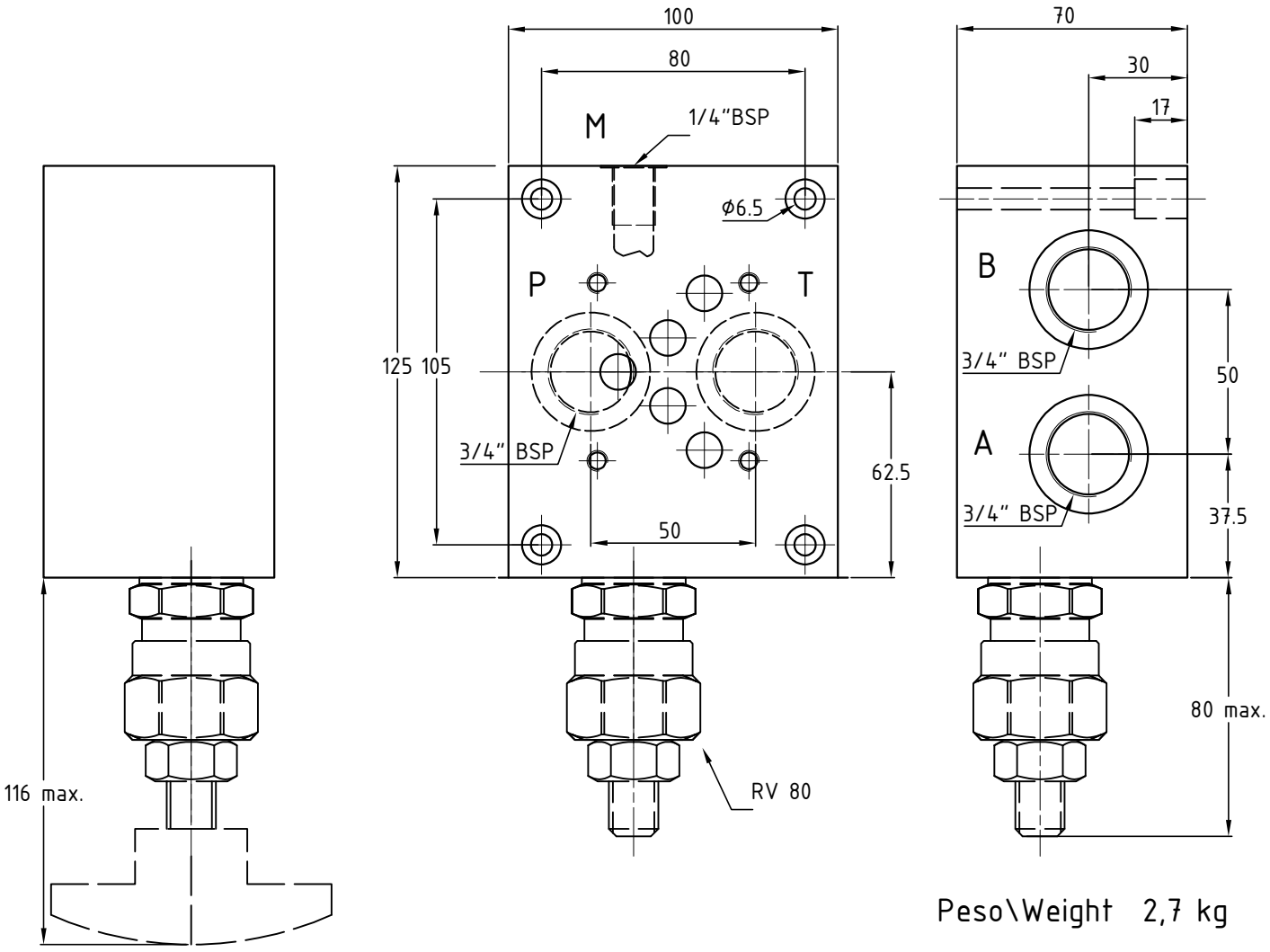
2 = Con valv. max RV80 (pag. M06)
2 = With relief valve RV80 (page M06)

Y=5÷55 bar A=25÷110 bar B=50÷250 bar

V=Con volantino (altrimenti omettere)
V=With handwheel (otherwise omit it)

PSA5RS342

Piastra singola Cetop 05 in alluminio con valvola di massima
Aluminium single subplate Cetop 05 with pressure relief valve



Peso\Weight 2,7 kg

Esempio di ordinazione - Ordering code

PSA5 RS 34 2 * *

Piastra singola Cetop 05 in alluminio
Single subplate Cetop 05 in aluminium

RS = attacchi P e T post. A e B lat.
RS = rear P and T and side A and B ports

34 = attacchi 3/4" BSP
34 = ports 3/4" BSP

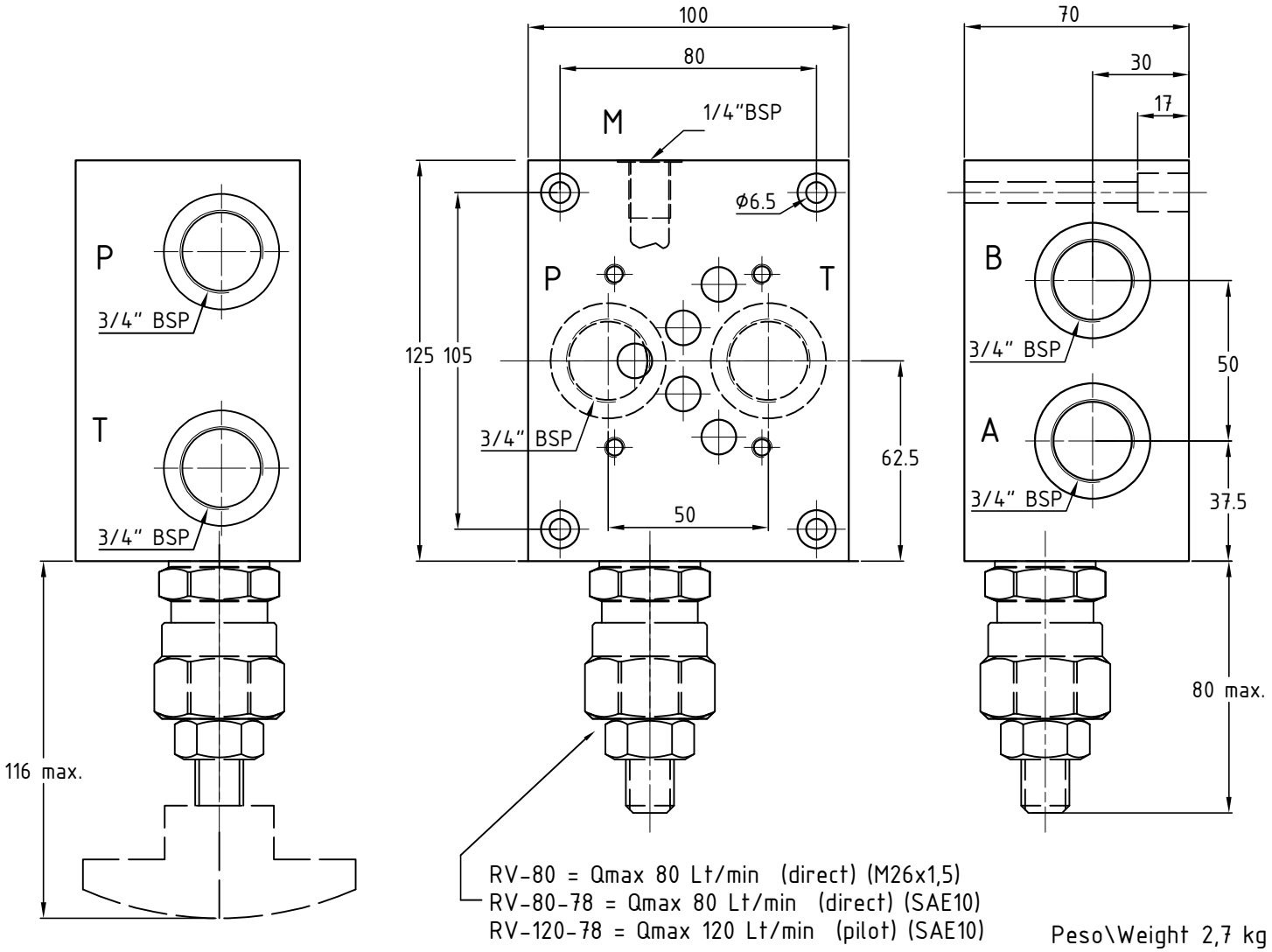
V=Con volantino (altrimenti omettere)
V=With handiwheel (otherwise omit it)

Y=5÷55 bar A=25÷110 bar B=50÷250 bar

2 = Con valv. max RV80 (pag. M06)
2 = With relief valve RV80 (page M06)

PSA5RSS34 **

Piastra singola Cetop 05 in alluminio con valvola di massima
Aluminium single subplate Cetop 05 with pressure relief valve



RV-80 = Qmax 80 Lt/min (direct) (M26x1,5)
RV-80-78 = Qmax 80 Lt/min (direct) (SAE10)
RV-120-78 = Qmax 120 Lt/min (pilot) (SAE10)

Peso\Weight 2,7 kg

Codice di ordinazione - Ordering code

PSA5 RSS 34 * * *

PSA5: Piastra singola Cetop 05 in alluminio / Single subplate Cetop 05 in aluminium

RSS: RSS = attacchi P e T post. e lat. - A e B lat. / RSS = rear and side P T - side A and B ports

34: 34 = attacchi 3/4" BSP / 34 = ports 3/4" BSP

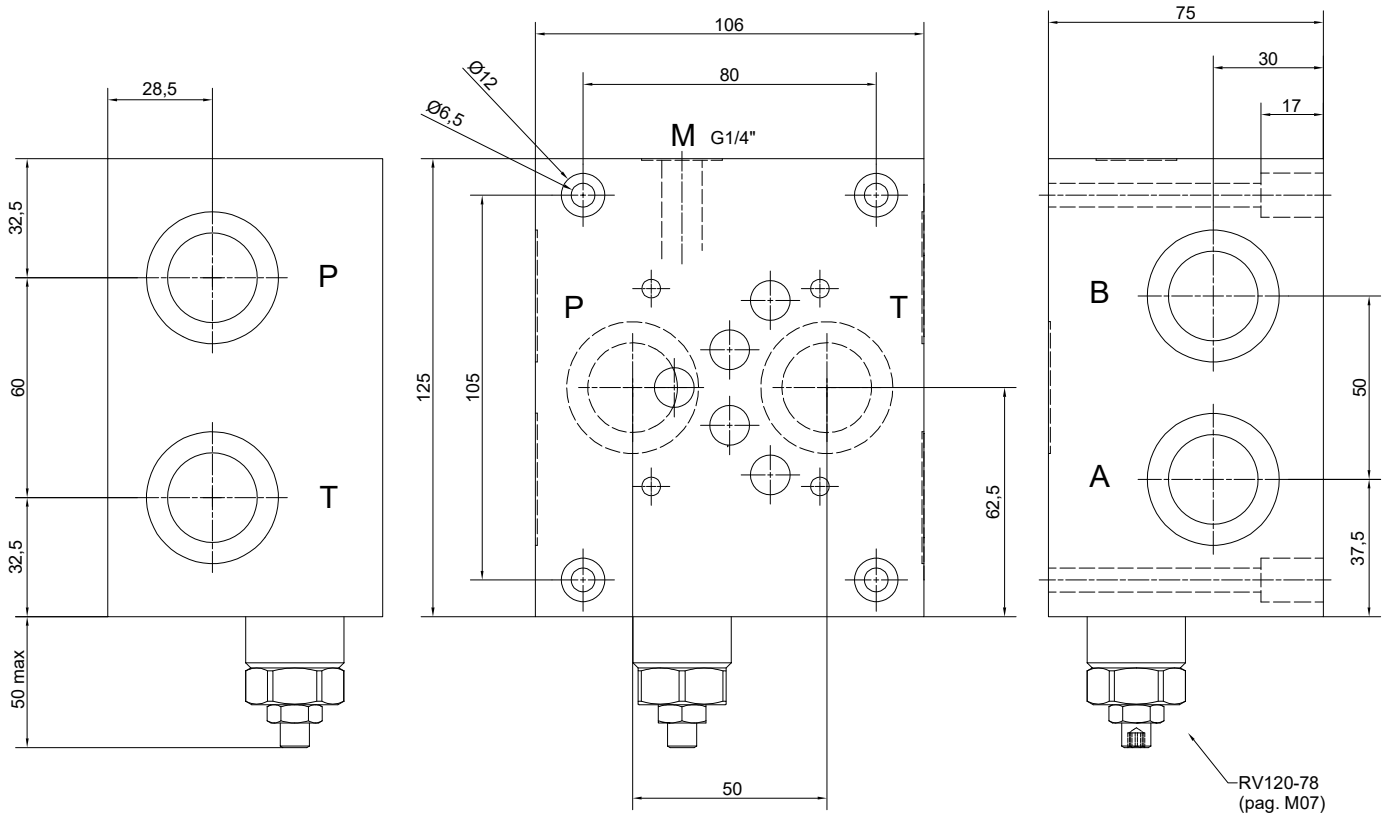
* (2 = Con valv. max mod. RV-80 (pag. M06) / 2 = With relief valve mod. RV-80 (page M06); C10-2 = Con valv. max mod. RV-80-78 (pag. M05) / C10-2 = With relief valve mod. RV-80-78 (page M05); C10-2XL = Con valv. max mod. RV-120-78 (pag. M07) / C10-2XL = With relief valve mod. RV-120-78 (page M07))

* (Y=5÷55 bar A=25÷110 bar B=50÷250 bar)

* (Omettere STANDARD / Omit STANDARD; V= Con volantino / V= With handiwheel)

PS5RS34RV12078*

Piastra singola Cetop 05 in ghisa con valvola di massima pressione
Single subplate Cetop 05 in cast iron with pressure relief valve



Esempio di ordinazione - Ordering code

PS5 RS 34 RV12078 *

PS5 = Piastra singola Cetop 05 in ghisa / Single subplate Cetop 05 in cast iron

RS = attacchi P T post. e lat. A B solo laterali / RS = rear and side ports P T , A B ports side only

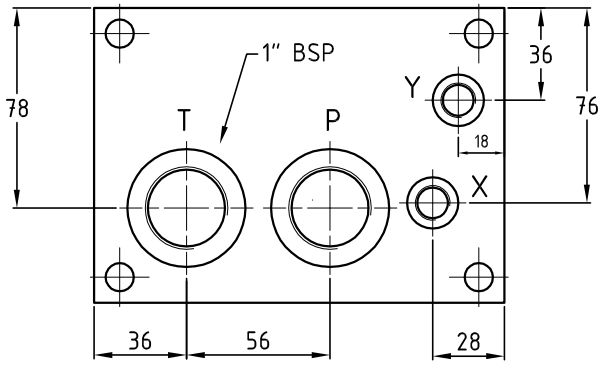
34 = attacchi 3/4" BSP / 34 = ports 3/4" BSP

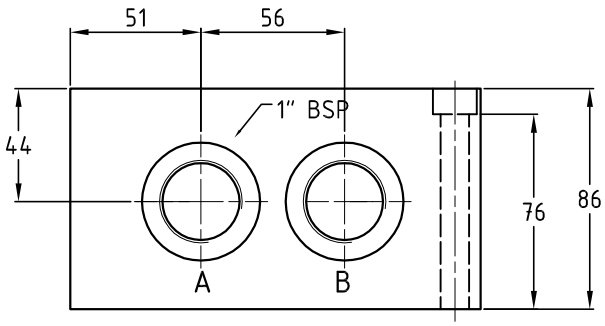
RV12078 =

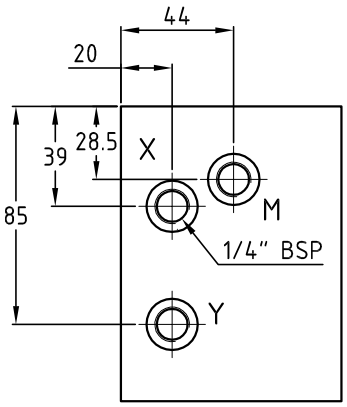
* = A= 20÷280 bar / B= 140÷280 bar / C= 280÷420 bar

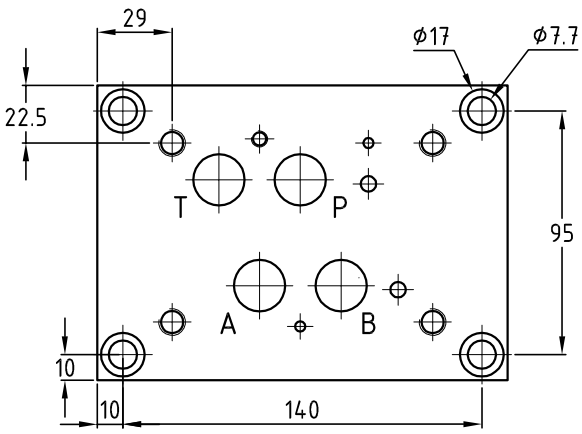
PS7RS**

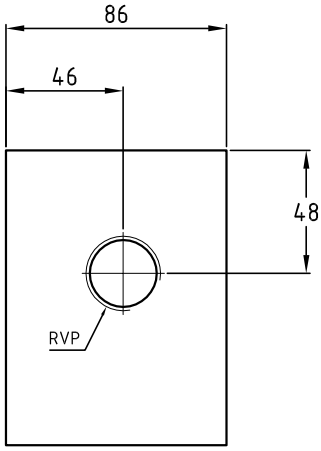
Piastra singola Cetop 07 in ghisa con attacchi A-B laterali P-T posteriori
Basic element Cetop 07 in cast iron with A-B side ports P-T rear ports











Peso\Weight 10kg

Esempio di ordinazione - Ordering code

PS7 RS 100 * *

PS7 — Piastra singola Cetop 07 in ghisa / Single subplate Cetop 07 in cast iron

RS — RS = P T attacchi post. e A B lat. / RS = P T rear and A B side ports

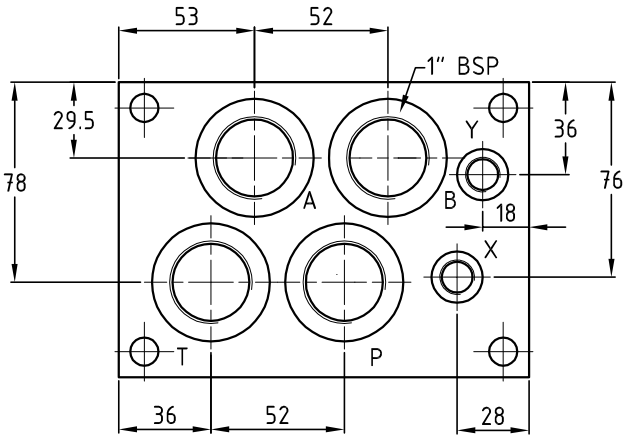
100 — 100 = attacchi 1" BSP / 100 = ports 1" BSP

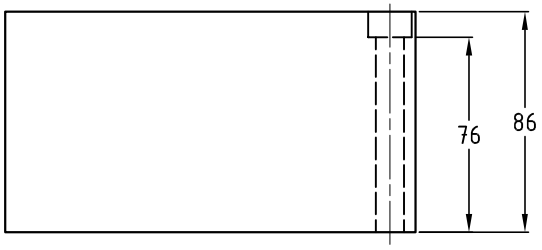
* — A=2-70 bar B=10-210 bar C=35-420 bar

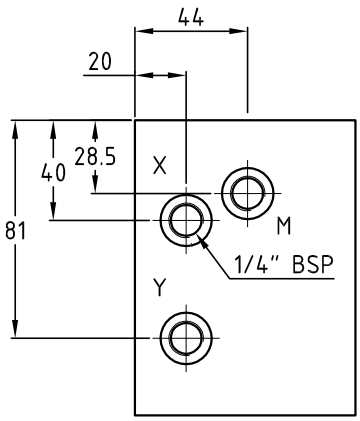
* — 0 = senza pred. per valvola di max. / 0 = without prearranged for relief valve
1 = pred. per valvola di max. (a richiesta) / 1 = prearranged for relief valve (on request)
2 = con valvola di max. (a richiesta) / 2 = with relief valve (on request)

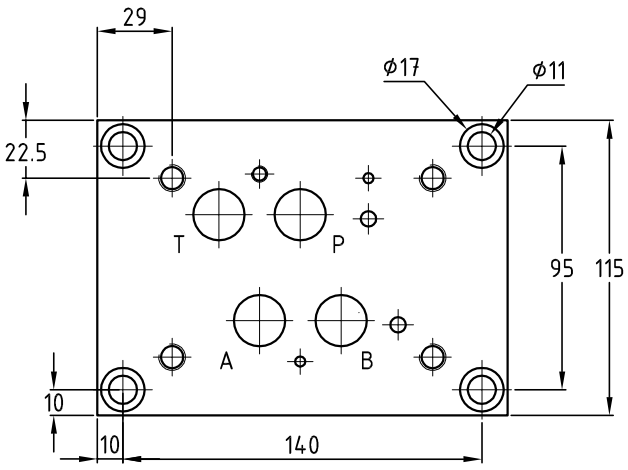
PS7RR100

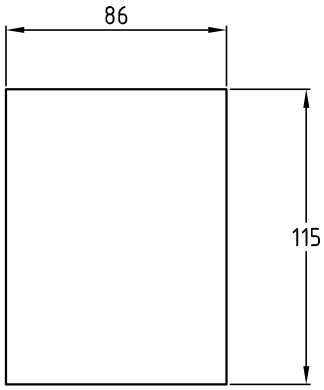
Piastra singola Cetop 07 in ghisa con attacchi A B P T posteriori
Basic element Ceop 07 in cast iron with A B P T rear ports











Peso\Weight 10kg

Esempio di ordinazione - Ordering code

PS7 RR 100

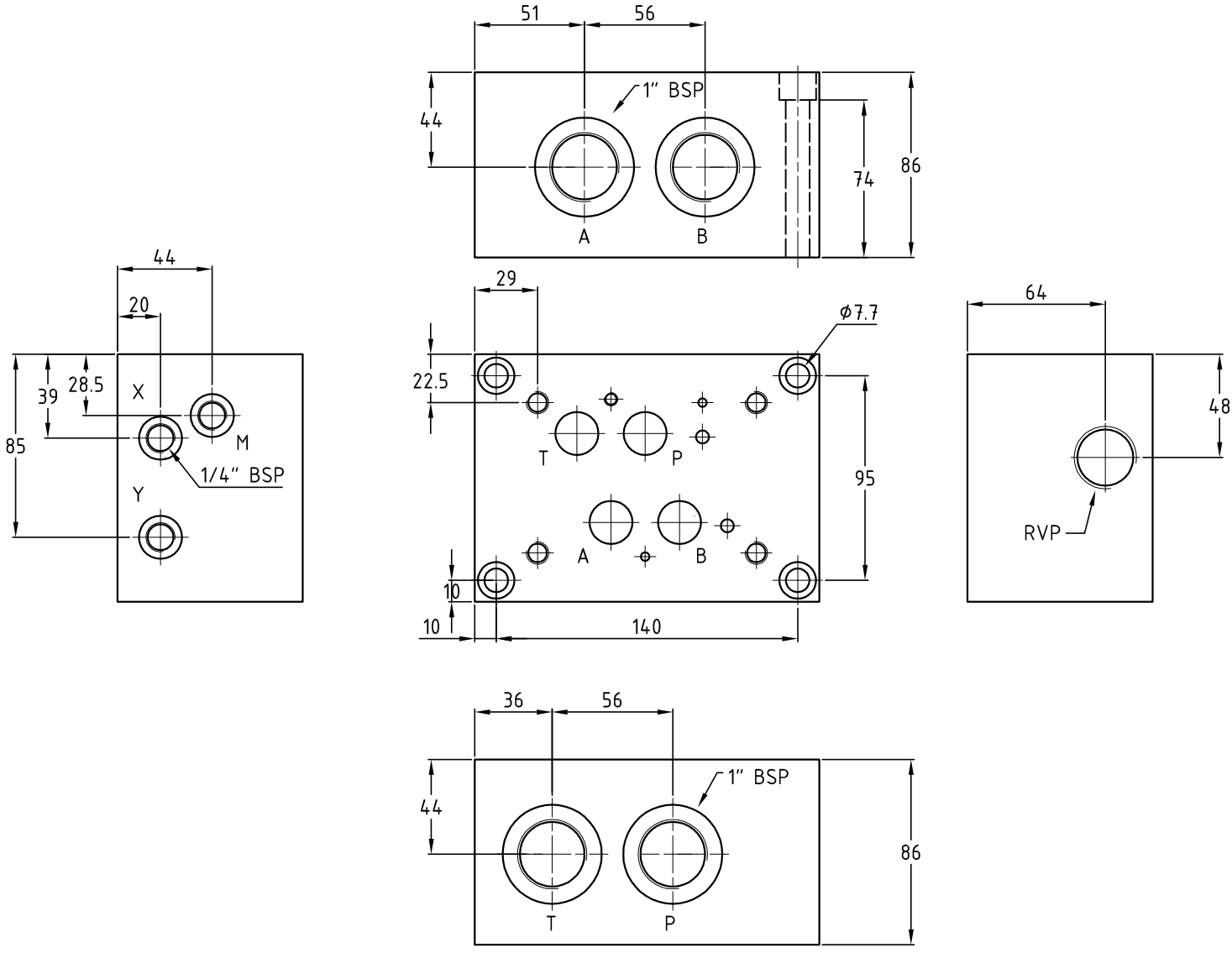
Piastra singola Cetop 07
Single subplate Cetop 07

RR = P T A B attacchi post.
RR = P T A B rear ports

100 = attacchi 1" BSP
100 = ports 1" BSP

PS7SS100**

Piastra singola Cetop 07 in ghisa con attacchi A B P T laterali
Basic element Cetop 07 in cast iron with A B P T side ports



Peso\Weight 10kg

Esempio di ordinazione - Ordering code

PS7 SS 100 * *

Piastra singola Cetop 07 in ghisa
Single subplate Cetop 07 in cast iron

SS = P T A B attacchi laterali
SS = P T A B side ports

100 = attacchi 1" BSP
100 = ports 1" BSP

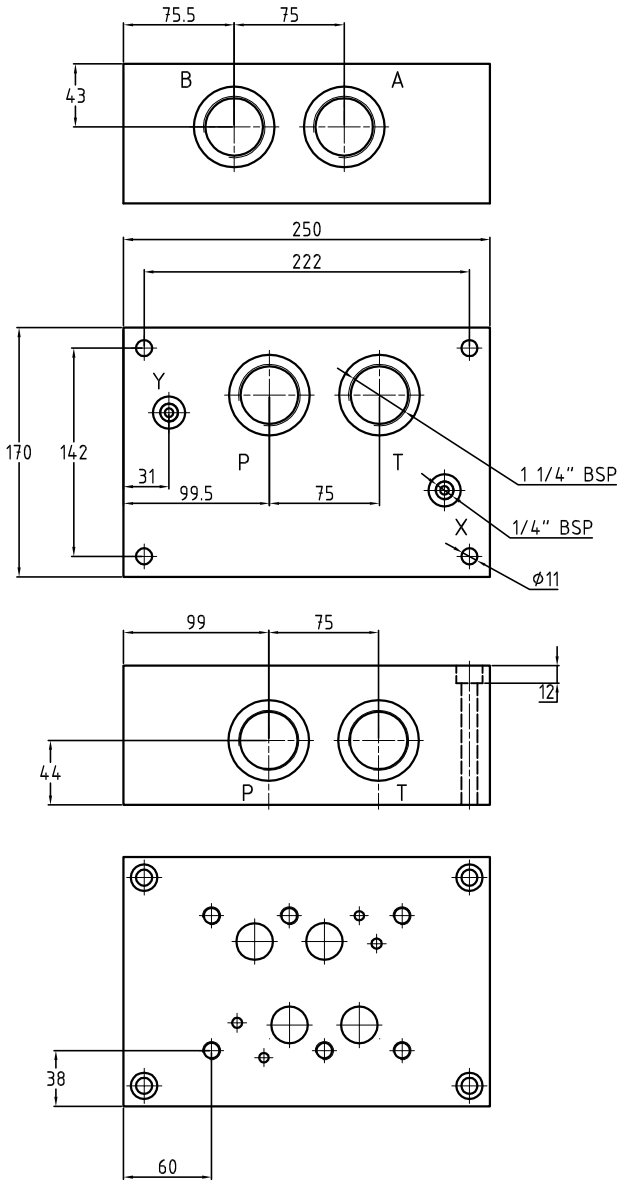
0 = senza pred. per valvola di max.
0 = without prearranged for relief valve

2 = con valvola di max. (a richiesta)
2 = with relief valve (on request)

A= 2÷70 bar B=10÷210 bar C=35÷420 bar

PS8RS114

Piastra singola Cetop 08 in ghisa con attacchi A-B laterali P-T posteriori
Basic element Cetop 08 in cast iron with A-B side ports P-T rear ports



Peso\Weight 27 kg

Esempio di ordinazione - Ordering code

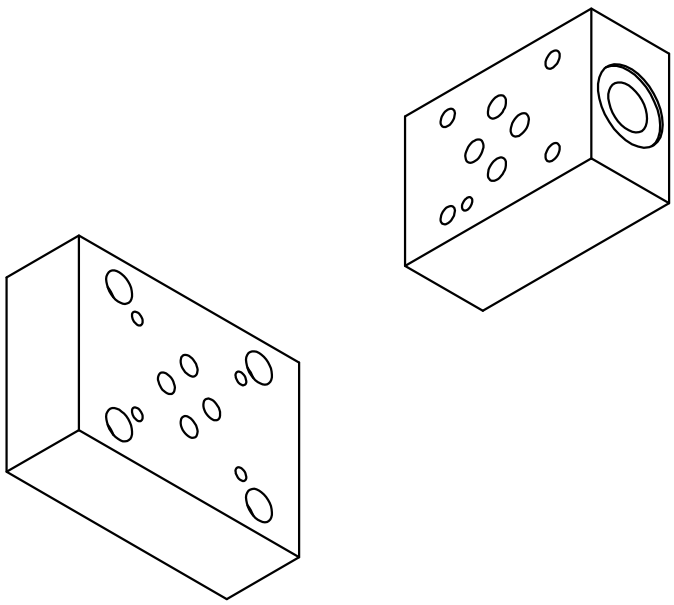
PS8 RS 114

Piastra singola Cetop 08 in ghisa
Single subplate Cetop 08 in cast iron

RS = P T attacchi post. e lat. e A B lat.
RS = P T rear and side ports and A B side ports

114 = attacchi 1 1/4" BSP
114 = ports 1 1/4" BSP

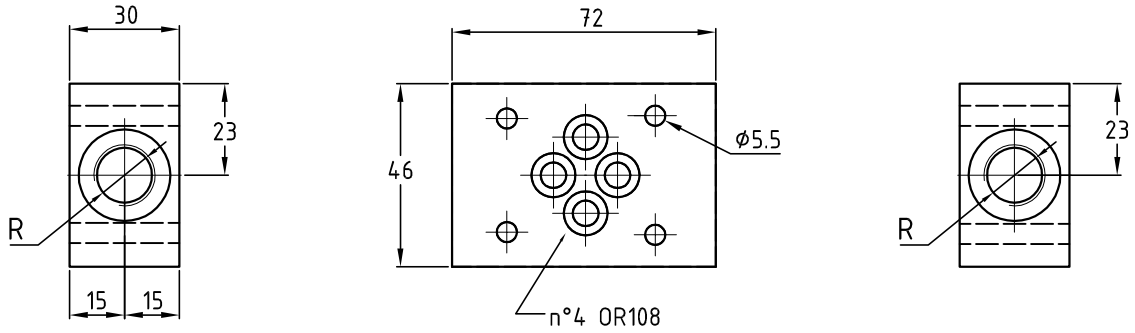
Piastre di coll. chiusura e riduzione
Closing, connection and reducing plate



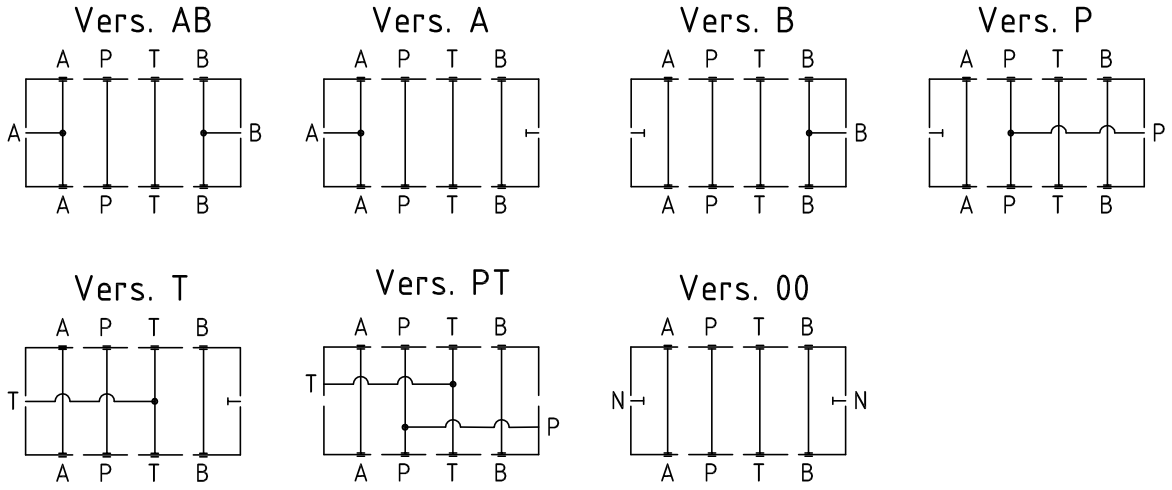
Sezione F
Section F

AM3**/**

Piastra di collegamento Cetop 03 in ghisa
Intermediate adapter Cetop 03 in cast iron



Hydraulic diagram



Esempio di ordinazione - Ordering code

AM3 14 / **

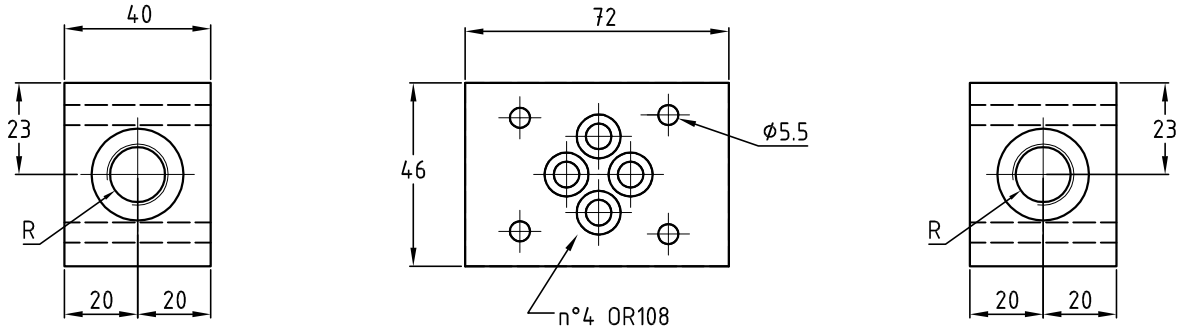
Piastra di collegamento Cetop 03 in ghisa
Intermediate adapter Cetop 03 in cast iron

14 = attacchi 1/4" BSP
14 = ports 1/4" BSP
38 = attacchi 3/8" BSP
38 = ports 3/8" BSP

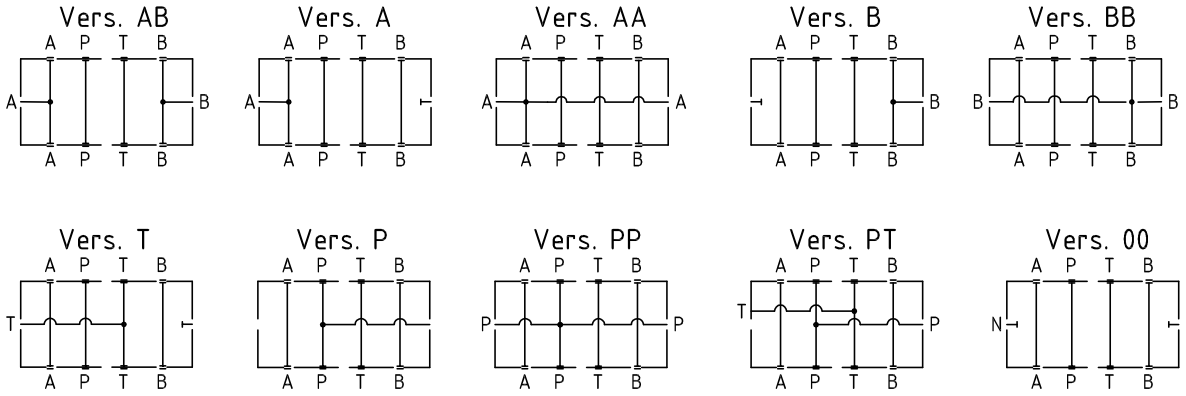
AB = versione AB
AB = AB version
A = versione A
A = A version
B = versione B
B = B version
P = versione P
P = P version
T = versione T
T = T version
PT = versione PT
PT = PT version
00 = versione NN
00 = NN version

AM3S**/**

Piastra di collegamento Cetop 03 in ghisa. Versione speciale H=40
Intermediate adapter Cetop 03 in cast iron. Special version H=40



Hydraulic diagram



Esempio di ordinazione – Ordering code

AM3S ** / **

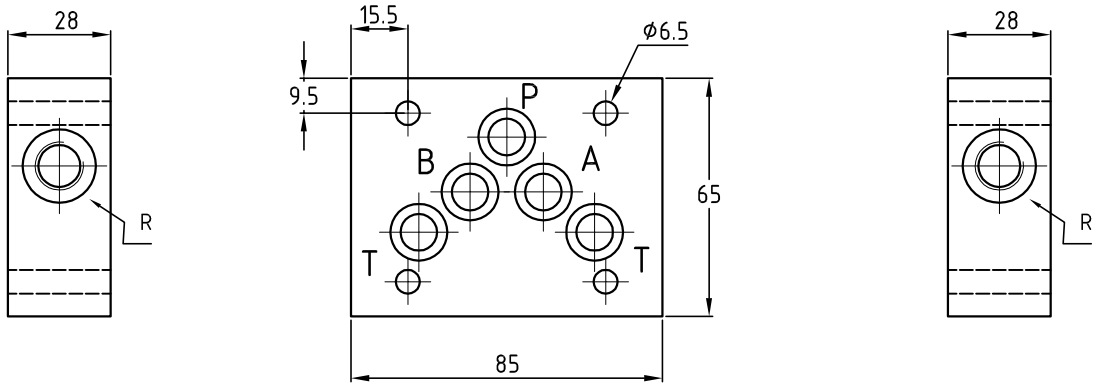
Piastra di collegamento Cetop 03 in ghisa
Intermediate adapter Cetop 03 in cast iron

14 = attacchi 1/4" BSP
14 = ports 1/4" BSP
38 = attacchi 3/8" BSP
38 = ports 3/8" BSP

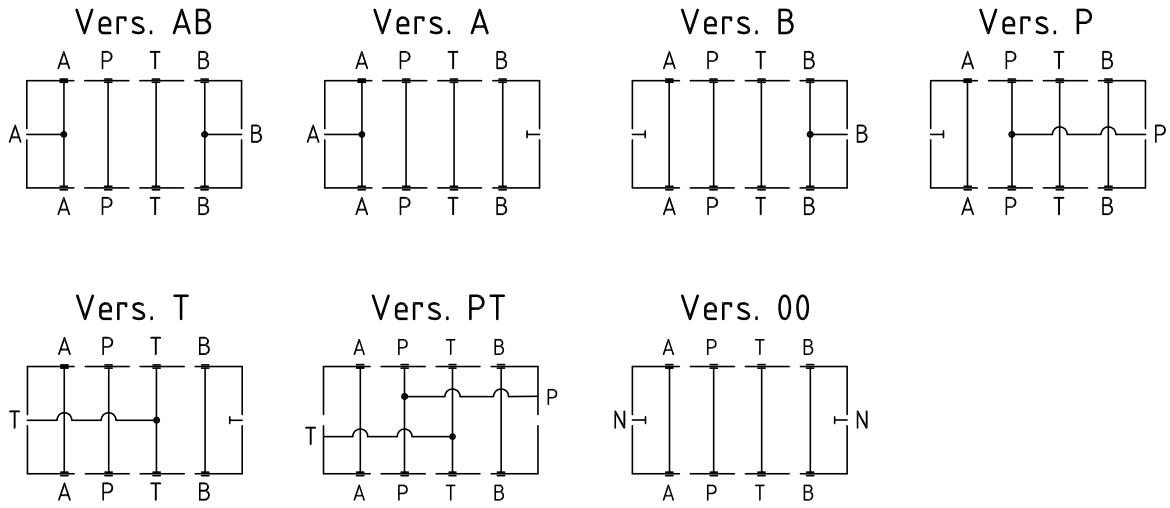
AB = versione AB
AB = AB version
A = versione A
A = A version
AA = versione AA
AA = AA version
B = versione B
B = B version
BB = versione BB
BB =BB version
P = versione P
P = P version
PP = versione PP
PP = PP version
T = versione T
T = T version
PT = versione PT
PT = PT version
00 = versione 00
00 = 00 version

AM5**/**

Piastra di collegamento Cetop 05 in ghisa
Intermediate adapter Cetop 05 in cast iron



Hydraulic diagram



Esempio di ordinazione – Ordering code

AM5 14 / AB

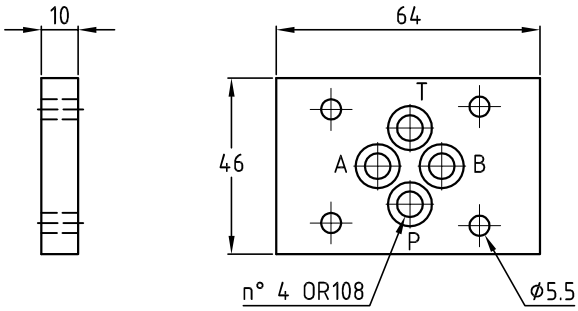
Piastra di collegamento Cetop 05 in ghisa
Intermediate adapter Cetop 05 in cast iron

14 = attacchi 1/4" BSP
14 = ports 1/4" BSP
38 = attacchi 3/8" BSP
38 = ports 3/8" BSP

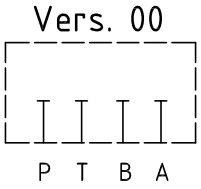
AB = versione AB
AB = AB version
A = versione A
A = A version
B = versione B
B = B version
P = versione P
P = P version
T = versione T
T = T version
PT = versione PT
PT = PT version
00 = versione 00
00 = 00 version

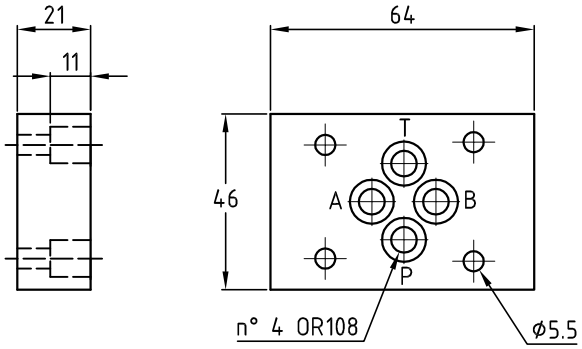
DC 03/**

Piastra di chiusura e collegamento Cetop 03
Connection and closing plate Cetop 03

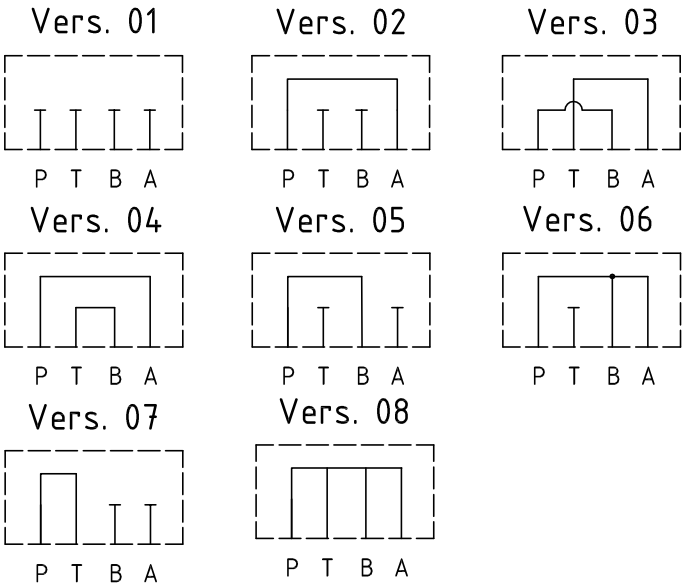


Hydraulic diagram





Hydraulic diagram



Esempio di ordinazione – Ordering code

DC 03 **

Piastra di chiusura e collegamento in ghisa/acciaio
Closing and connection plate in cast iron / steel

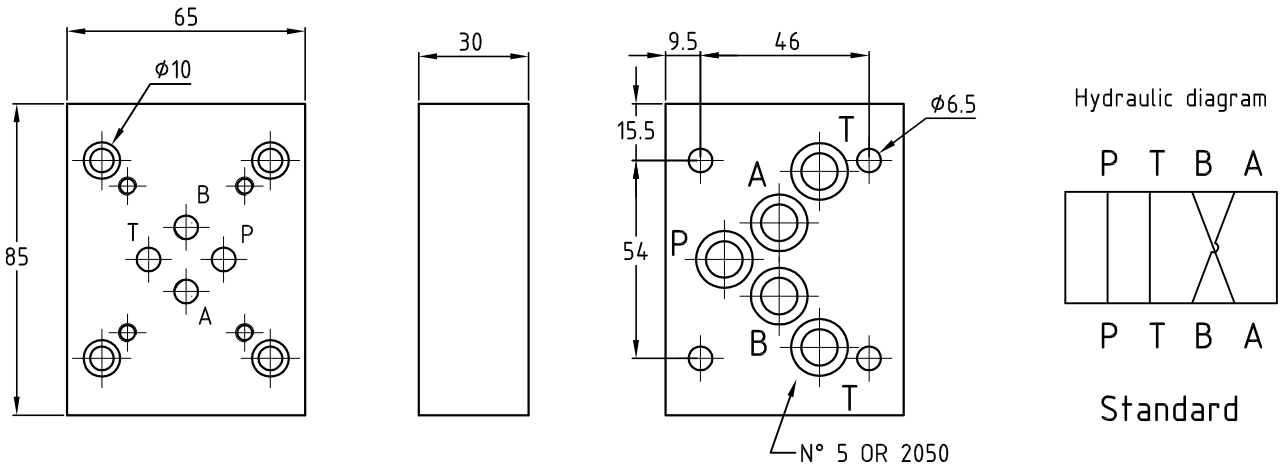
Cetop 03
Cetop 03

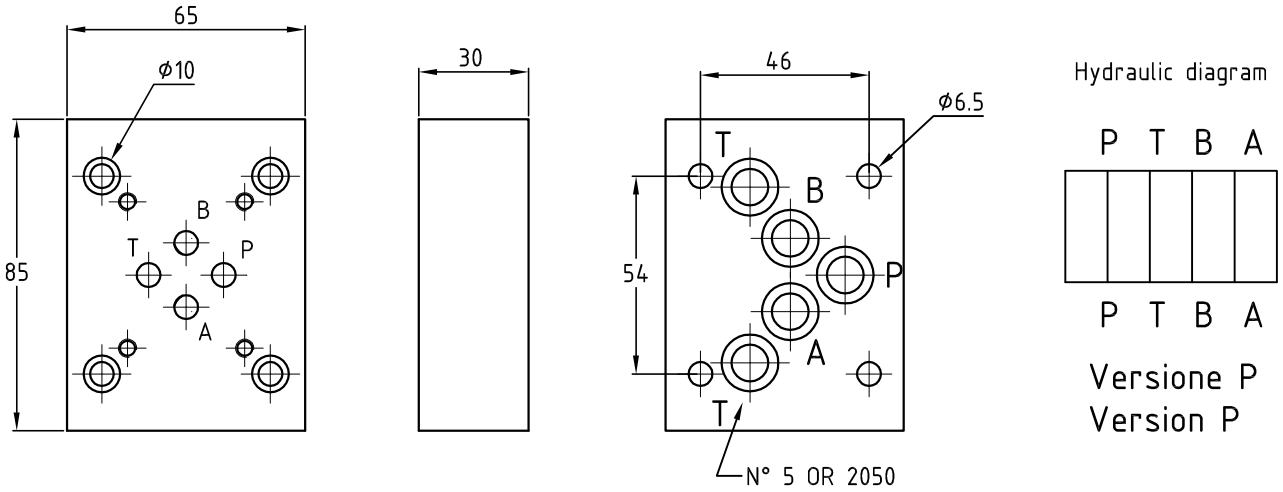
Omettere se versione 00
Omit if 00 version

Vedere simboli idraulici per versione da 01 a 08
See hydraulic symbol for version from 01 to 08

RP 05/03*

Piastra di riduzione Cetop 05 / Cetop 03 in ghisa
Reduction element Cetop 05 / Cetop 03 in cast iron





Peso\Weight 1,2 kg

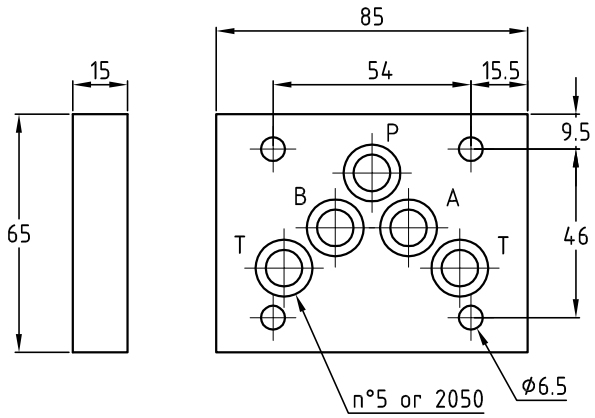
Esempio di ordinazione - Ordering code

RP 05/03 *

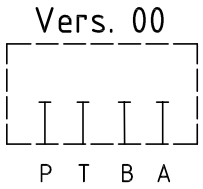
- RP: Piastra di riduzione in ghisa / Reduction element in cast iron
- 05/03: Da Cetop 05 a Cetop 03 / From Cetop 05 to Cetop 03
- *: P = Versione passante / P = Crossing version; Omettere se versione standard / Omit if standard

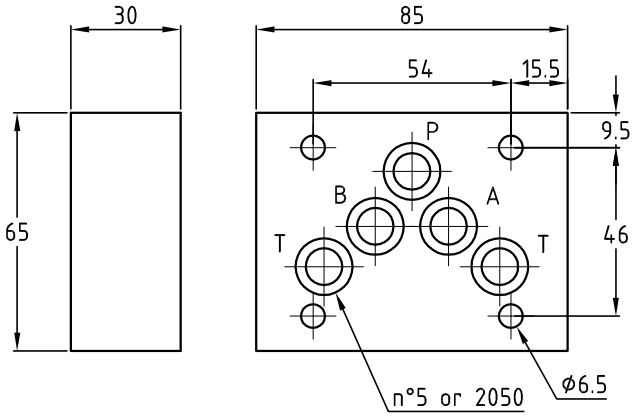
DC 05/**

Piastra di chiusura e collegamento Cetop 05 in ghisa
Closing and connection plate Cetop 05 in cast iron

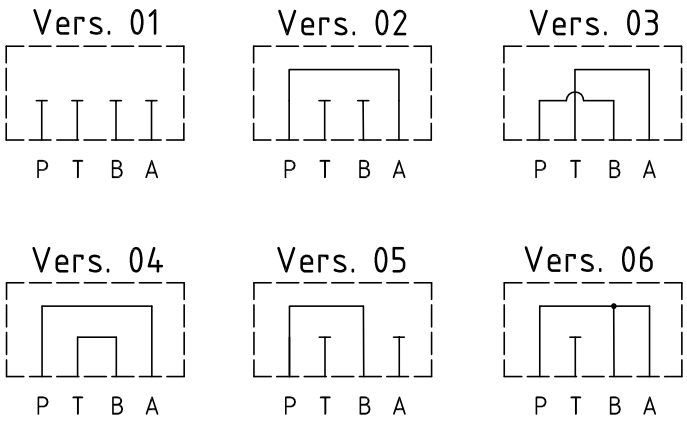


Hydraulic diagram





Hydraulic diagram



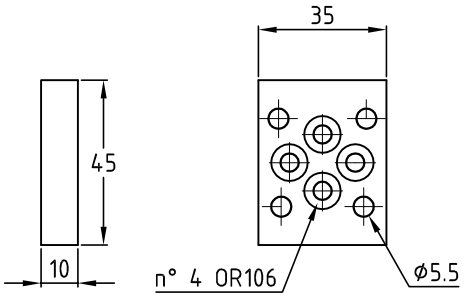
Esempio di ordinazione - Ordering code

DC — 05 — **

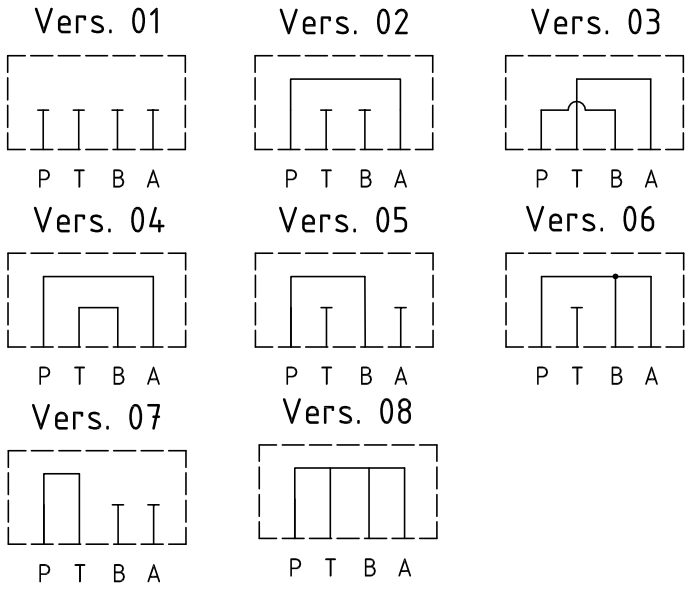
- DC: Piastra di chiusura e collegamento in ghisa/acciaio / Closing and connection plate in cast iron / steel
- 05: Cetop 05 / Cetop 05
- **: Omettere se versione 00 / Omit if 00 version; Vedere simboli idraulici per versione da 01 a 06 / See hydraulic symbol for version from 01 to 06

DC 02/**

Piastra di chiusura e collegamento Cetop 02
Connection and closing plate Cetop 02



Hydraulic diagram



Esempio di ordinazione – Ordering code

DC 02 **

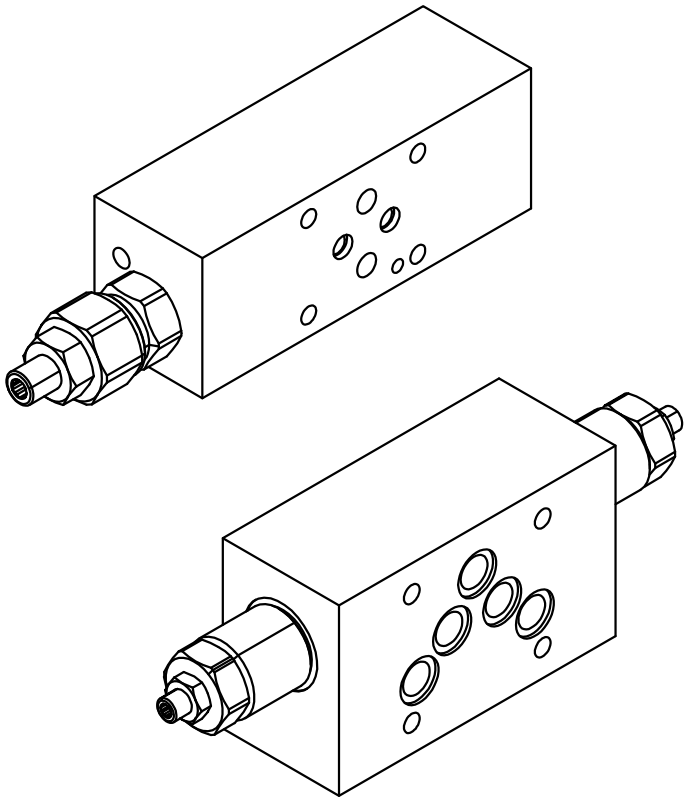
Piastra di chiusura e collegamento in acciaio
Closing and connection plate in steel

Cetop 02
Cetop 02

Omettere se versione 01
Omit if 01 version

Vedere simboli idraulici per versione da 01 a 08
See hydraulic symbol for version from 01 to 08

Valvole modulari Cetop
Modular valves Cetop



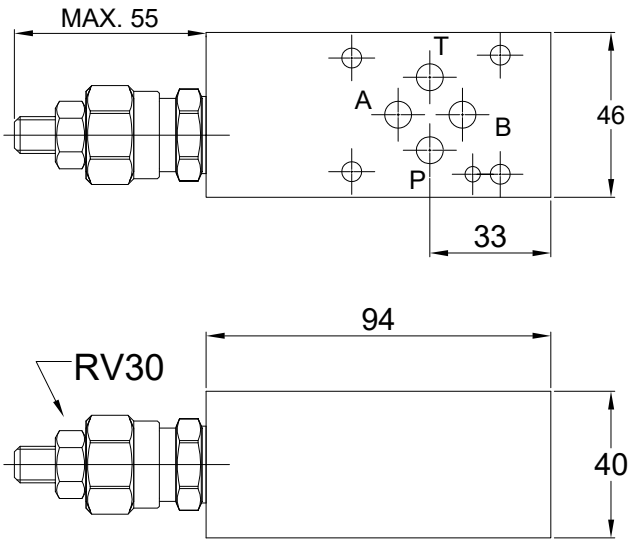
Sezione G
Section G

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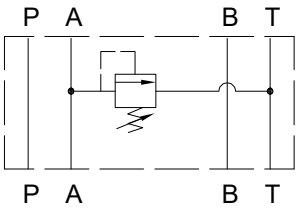
MRV3**

Valvola di massima pressione montaggio modulare Cetop-03
Modular relief valve Cetop-03 mounting

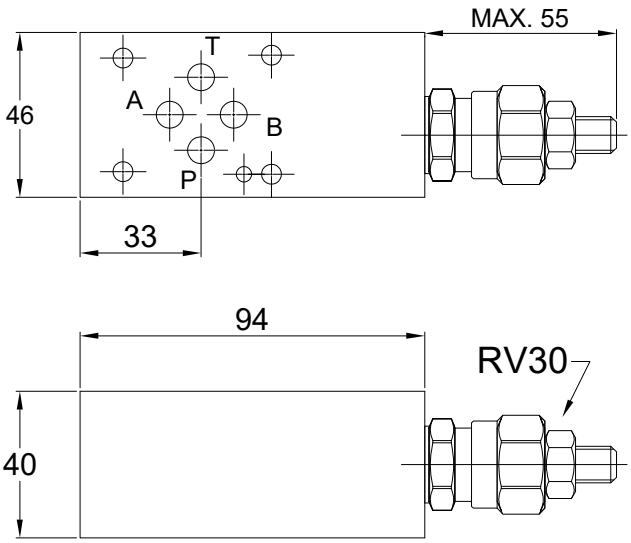
MRV3A



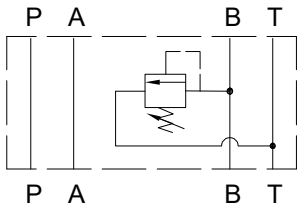
Hydraulic diagram



MRV3B



Hydraulic diagram



(Dati tecnici Valvola limitatrice, vedere pagina M02)
(Relief valve technical data, see page M02)

DATI TECNICI *TECHNICAL DATA*	
Portata max / Max flow	35 Lt/min
Pressione max di lavoro / Max working pressure	410 bar
Peso / Weight	1,25 Kg
Corpo in Ghisa fosfatata / Phosphated Cast iron body	

Codice di ordinazione - *Ordering code*

MRV 3 * * **

CETOP-03 (ISO-4401)

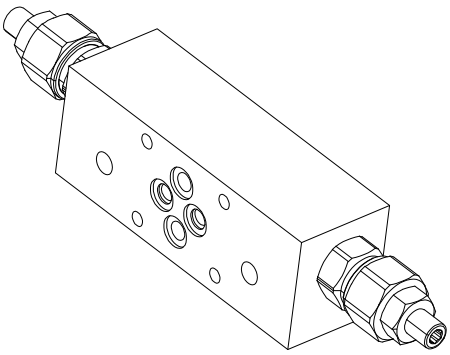
A = limitazione su A
A = limitation on A
B = limitazione su B
B = limitation on B

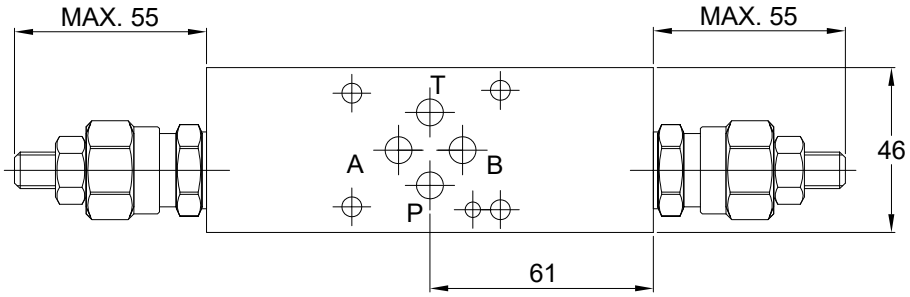
Y=5÷55 bar A=25÷110 bar B=50÷250 bar
C=100÷350 bar D=100÷410 bar (see pag. M02)

0M marcatura standard
0M standard marking
XM marcatura personalizzata
XM customized marking

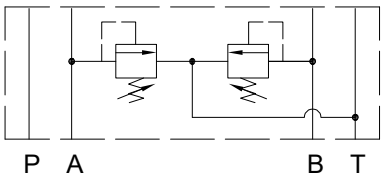
MRV3AB

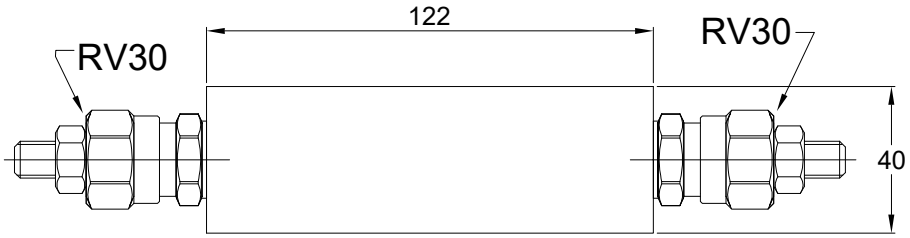
Valvola di massima pressione montaggio modulare Cetop-03
Modular relief valve Cetop-03 mounting





Hydraulic diagram





(Dati tecnici Valvola limitatrice, vedere pagina M02)
(Relief valve technical data, see page M02)

DATI TECNICI *TECHNICAL DATA*	
Portata max / Max flow	35 Lt/min
Pressione max di lavoro / Max working pressure	410 bar
Peso / Weight	1,6 Kg
Corpo in Ghisa fosfatata / Phosphated Cast iron body	

Codice di ordinazione - *Ordering code*

MRV 3 AB * **

CETOP-03 (ISO-4401)

AB = limitazione su A e su B
AB = limitation on A and B

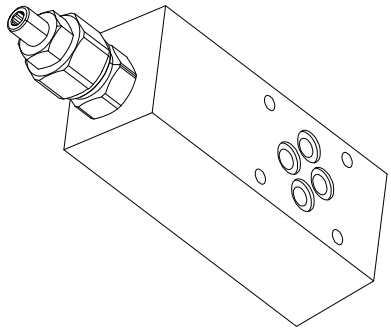
0M marcatura standard
0M standard marking

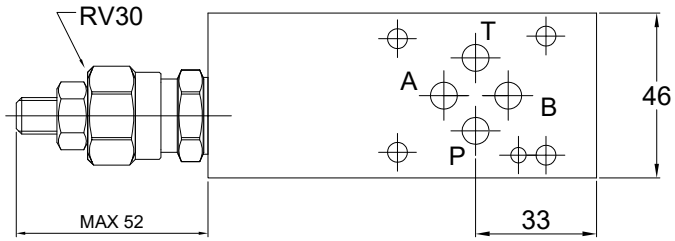
XM marcatura personalizzata
XM customized marking

Y=5÷55 bar A=25÷110 bar B=50÷250 bar
C=100÷350 bar D=100÷410 bar (see pag. M02)

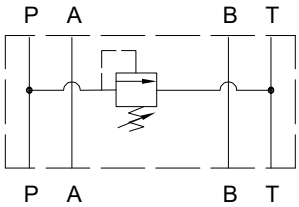
MRV3P

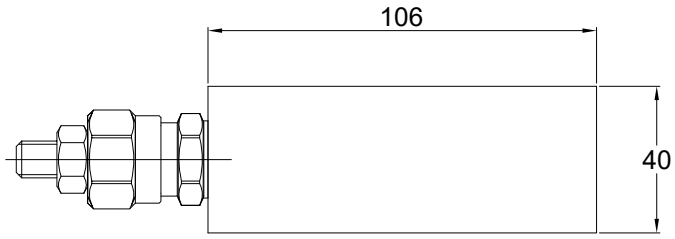
Valvola di massima pressione montaggio modulare Cetop-03
Modular relief valve Cetop-03 mounting





Hydraulic diagram





DATI TECNICI *TECHNICAL DATA*	
Portata max / Max flow	35 Lt/min
Pressione max di lavoro / Max working pressure	410 bar
Peso / Weight	1,4 Kg
Corpo in Ghisa fosfatata / Phosphated Cast iron body	

(Dati tecnici Valvola limitatrice, vedere pagina M02)
(Relief valve technical data, see page M02)

Codice di ordinazione - *Ordering code*

MRV 3 P * **

CETOP-03 (ISO-4401)

P = limitazione su P
P = limitation on P

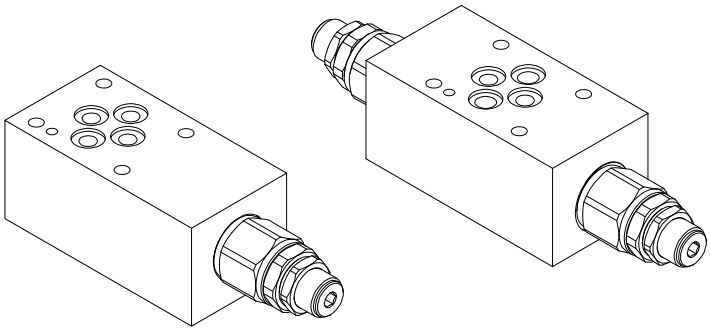
Y=5÷55 bar A=25÷110 bar B=50÷250 bar
C=100÷350 bar D=100÷410 bar (see pag. M02)

0M marcatura standard
0M standard marking
XM marcatura personalizzata
XM customized marking

MRV*334 **

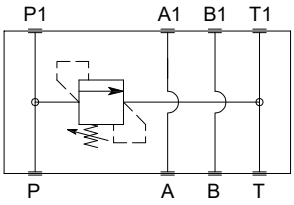
Valvola limitatrice di pressione, montaggio modulare Cetop-03

Pressure relief valve, modular Cetop-03 mounting



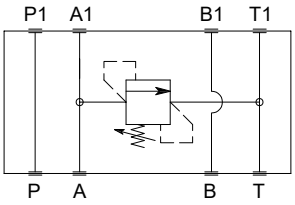
DATI TECNICI *TECHNICAL DATA*		
Portata max / Max flow-rate	RV2534	25 Lt/min
Portata max / Max flow-rate	RV3034	30 Lt/min
Pressione max di lavoro / Max working pressure (1)		250 bar Alluminio Aluminum
Pressione max di lavoro / Max working pressure (2)		350 bar Ghisa Cast-iron
Campo taratura pressione / Setting pressure range		Vedi tabella See table
Trafilamento interno max / Max internal leakage		0,35 ml/min
Temp. olio raccomandata / Recommended oil temp.		-30 / +100 °C
Corpo Alluminio PESO / Aluminum body WEIGHT		0,5 Kg
Corpo Ghisa fosfatata PESO / Phosphated Cast iron body WEIGHT		1,2 Kg

MRV*334 P



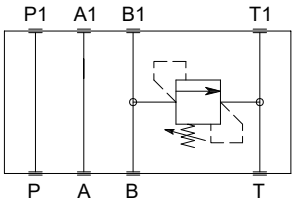
Lato O-ring / *O-ring side*

MRV*334 A



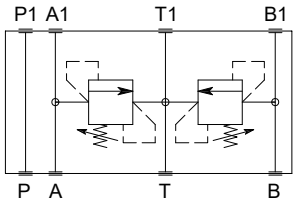
Lato O-ring / *O-ring side*

MRV*334 B



Lato O-ring / *O-ring side*

MRV*334 AB



Lato O-ring / *O-ring side*

Codice di ordinazione - *Ordering code*

MRV * 334 ** ** * **

"OMETTERE" = Corpo Ghisa fosfatata
"OMIT" = Phosphated Cast-iron body
A = Corpo in Alluminio
A = Aluminum body

CETOP-03 (ISO-4401) 3/4"-16UNF

P = Valvola su P in T
P = Valve on P to T
A = Valvola su A in T
A = Valve on A to T
B = Valvola su B in T
B = Valve on B to T
AB = Valvole su A-B in T
AB = Valves on A-B to T

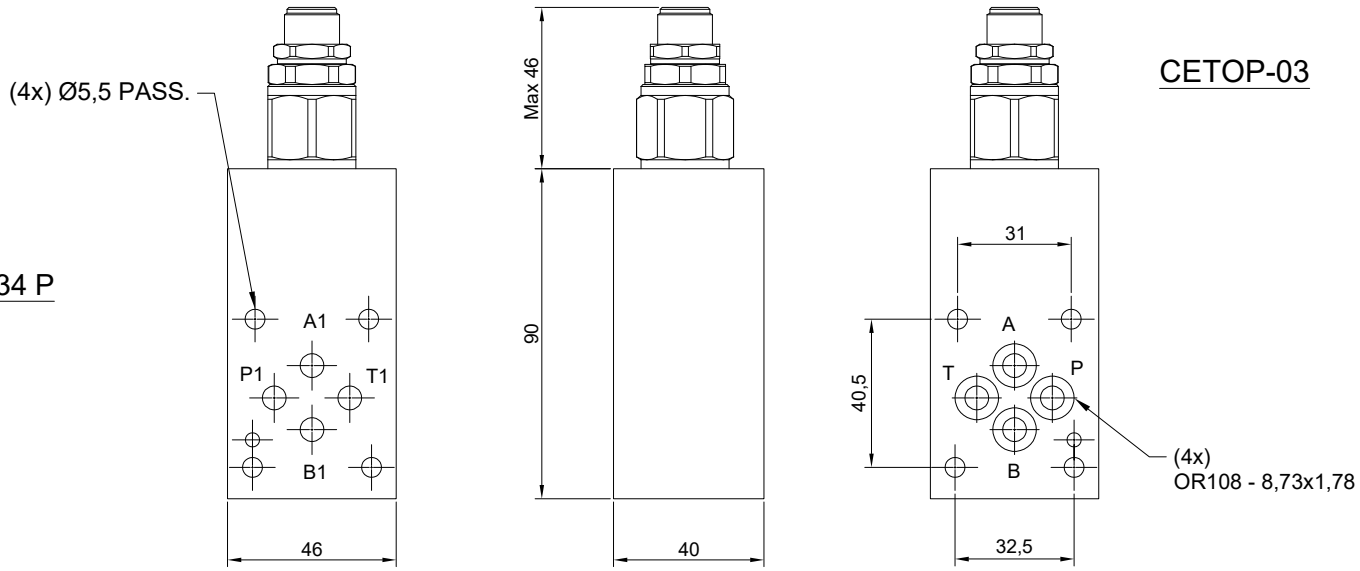
25 = Cartuccia RV2534 (pag.M01)
25 = RV2534 cartridge (pag.M01)
30 = Cartuccia RV3034 (pag.M03)
30 = RV3034 cartridge (pag.M03)

RANGE (bar)
Y = 20-70 (RV25) 15-60 (RV30)
A = 10-160 (RV25) 25-135 (RV30)
B = 100-290 (RV25) 50-220 (RV30)
C = 130-350 (RV25) 120-350 (RV30)

0M marcatura standard
0M standard marking
XM marcatura personalizzata
XM customized marking

MRV*334 **

MRV*334 P

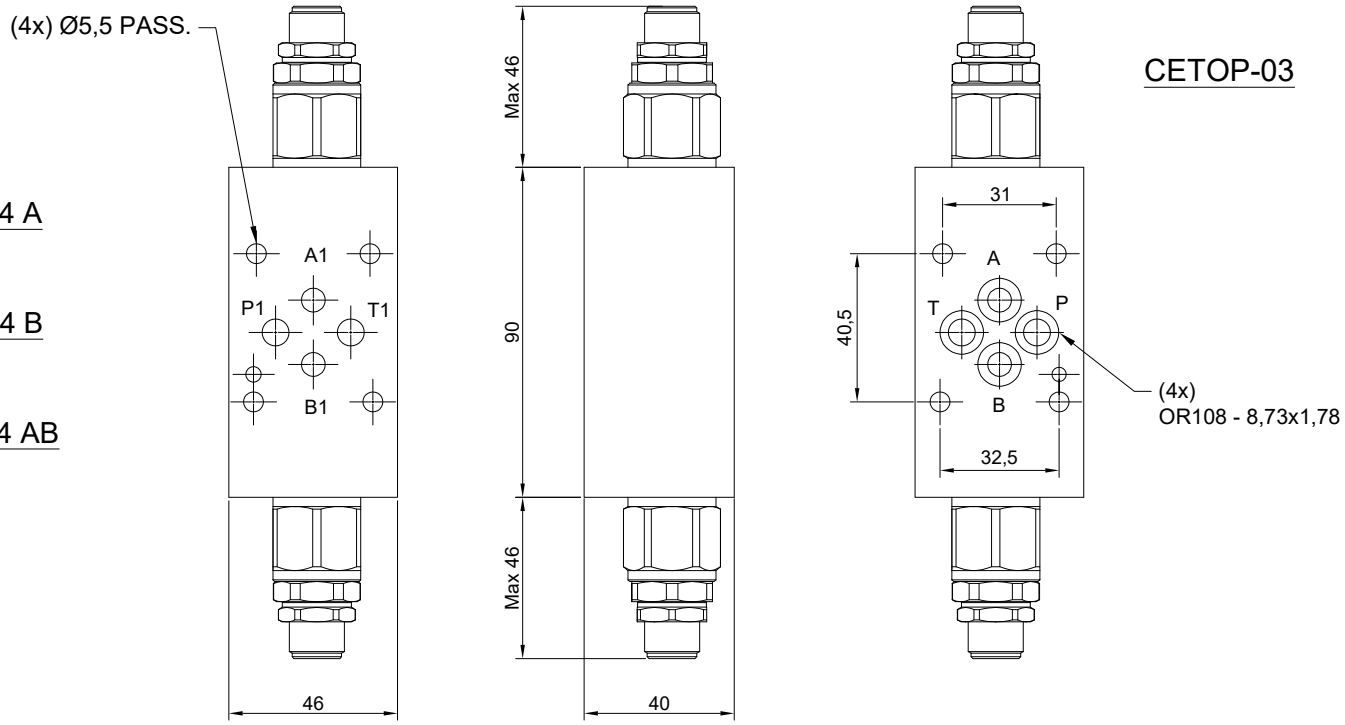


CETOP-03

MRV*334 A

MRV*334 B

MRV*334 AB



CETOP-03

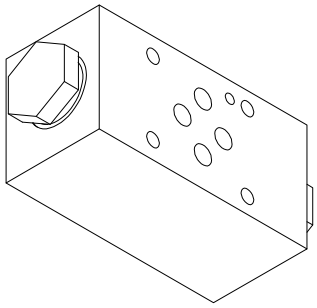
Rappresentato il Modello "AB". Per i modelli "A" e "B", eliminare la valvola rispettivamente sui lati A o su B.
Model "AB" is shown. For models "A" and "B", remove the valve on side A or B, respectively.

Per Diagrammi curve Perdite di carico, vedere pag. M01 e pag. M03.
For Pressure drop curve diagrams, see pag. M01 and pag. M03.

MECV3 **

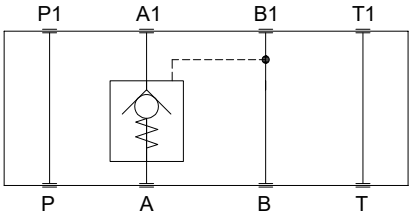
Valvola di ritegno pilotata, montaggio modulare Cetop-03

Pilot operated check valve, modular Cetop-03 mounting



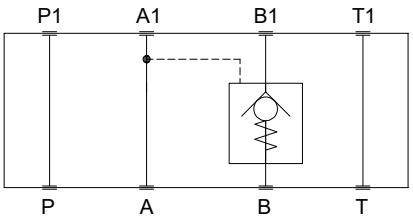
DATI TECNICI *TECHNICAL DATA*	
Portata max / Max flow-rate	40 Lt/min
Pressione max di lavoro / Max working pressure	350 bar
Rapporto di pilotaggio / Pilot ratio	4,5 : 1
Pressione di apertura / Cracking pressure	Vedi tab. *See table*
Trafilamento interno max / Max internal leakage	0,15 ml/min
Temp. olio raccomandata / Recommended oil temp.	-30 / +100 °C
Peso / Weight	2 Kg
Corpo in Ghisa fosfatata / Phosphated Cast iron body	

MECV 3 A



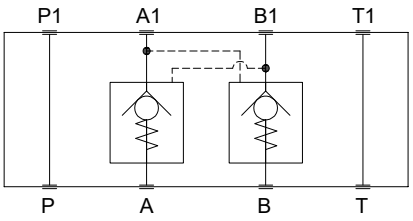
Lato O-ring / *O-ring side*

MECV 3 B



Lato O-ring / *O-ring side*

MECV 3 AB



Lato O-ring / *O-ring side*

Tabella Pressioni di apertura *Cracking pressure table*	
Codice / *Code*	Pressione / *Pressure*
05	0,5 bar
10	1,0 bar
25	2,5 bar
30	3,0 bar
50	5,0 bar
80	8,0 bar

Codice di ordinazione - *Ordering code*

MECV 3 * ** **

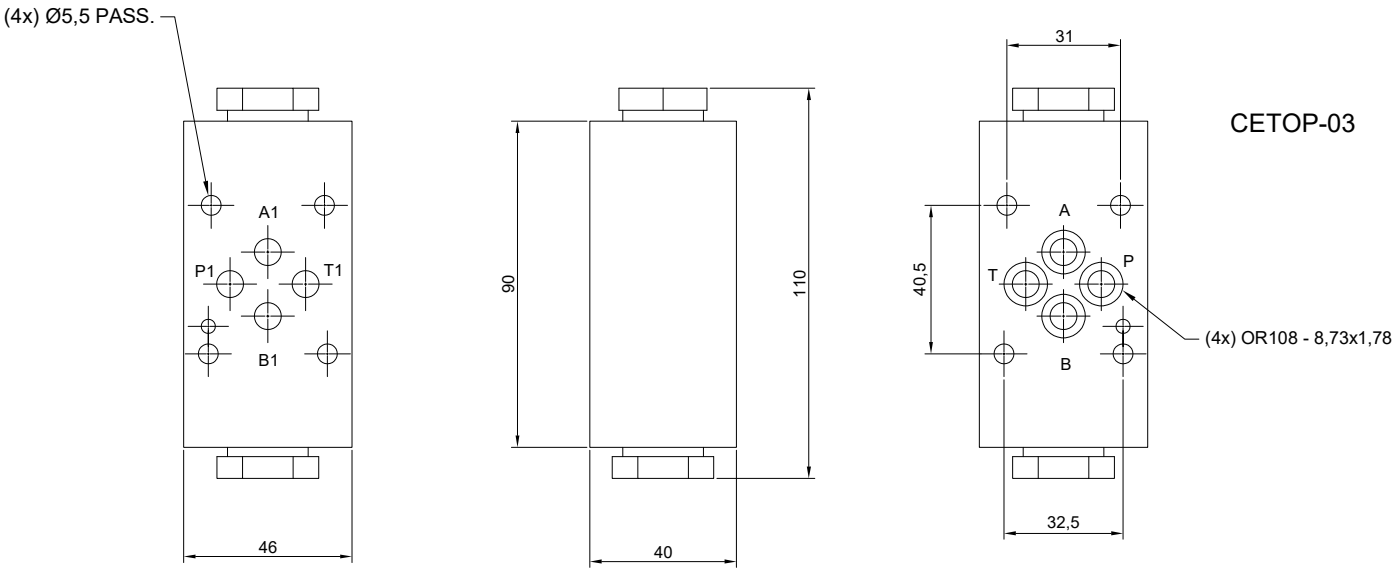
CETOP-03 (ISO-4401)

A = Ritegno su A
A = Check on A
B = Ritegno su B
B = Check on B
AB = Ritegno su A e su B
AB = Check on A and B

"CODICE" tabella pressioni di apertura
"CODE" cracking pressure table

0M marcatura standard
0M standard marking
XM marcatura personalizzata
XM customized marking

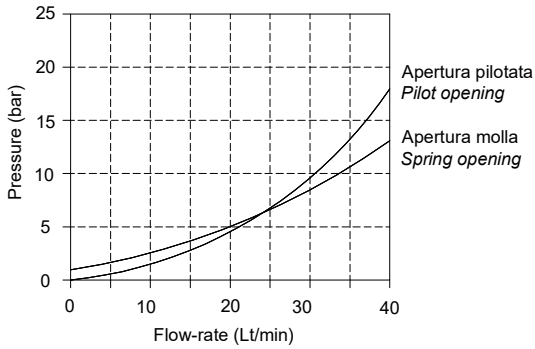
MECV3 **



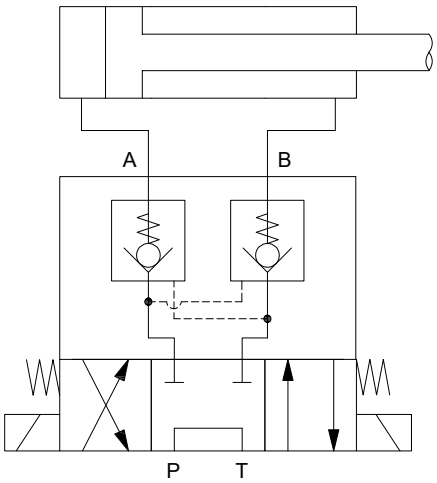
CETOP-03

Perdite di carico Valvola di ritegno / *Check valve Pressure drop*

Codice "10" (1 bar) / *Code "10" (1 bar)*



Esempio di applicazione / *Application example*

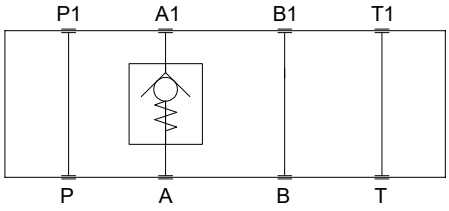


MECVD3 **

Valvola di ritegno unidirezionale diretta, montaggio modulare Cetop-03

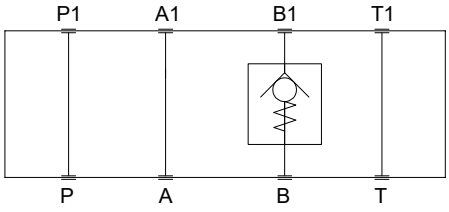
Direct operated unidirectional check valve, modular Cetop-03 mounting

MECVD 3 A



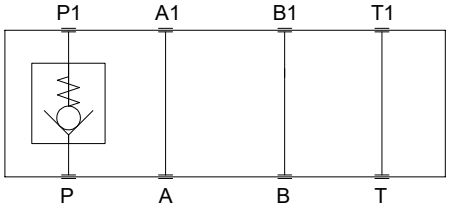
Lato O-ring / *O-ring side*

MECVD 3 B



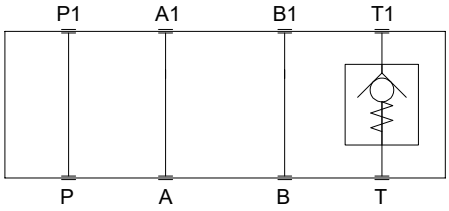
Lato O-ring / *O-ring side*

MECVD 3 P



Lato O-ring / *O-ring side*

MECVD 3 T



Lato O-ring / *O-ring side*

DATI TECNICI *TECHNICAL DATA*	
Portata max / Max flow-rate	40 Lt/min
Pressione max di lavoro / Max working pressure	350 bar
Pressione di apertura / Cracking pressure	Vedi tab. *See table*
Trafilamento interno max / Max internal leakage	0,15 ml/min
Temp. olio raccomandata / Recommended oil temp.	-30 / +100 °C
Peso / Weight	1,9 Kg
Corpo in Ghisa fosfatata / Phosphated Cast iron body	

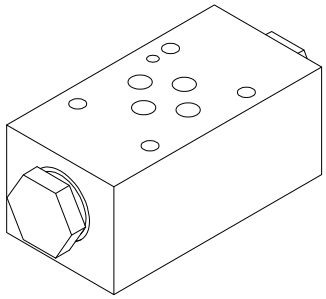


Tabella Pressioni di apertura *Cracking pressure table*	
Codice / *Code*	Pressione / *Pressure*
05	0,5 bar
10	1,0 bar
25	2,5 bar
30	3,0 bar
50	5,0 bar
80	8,0 bar

Codice di ordinazione - *Ordering code*

MECVD 3 * ** **

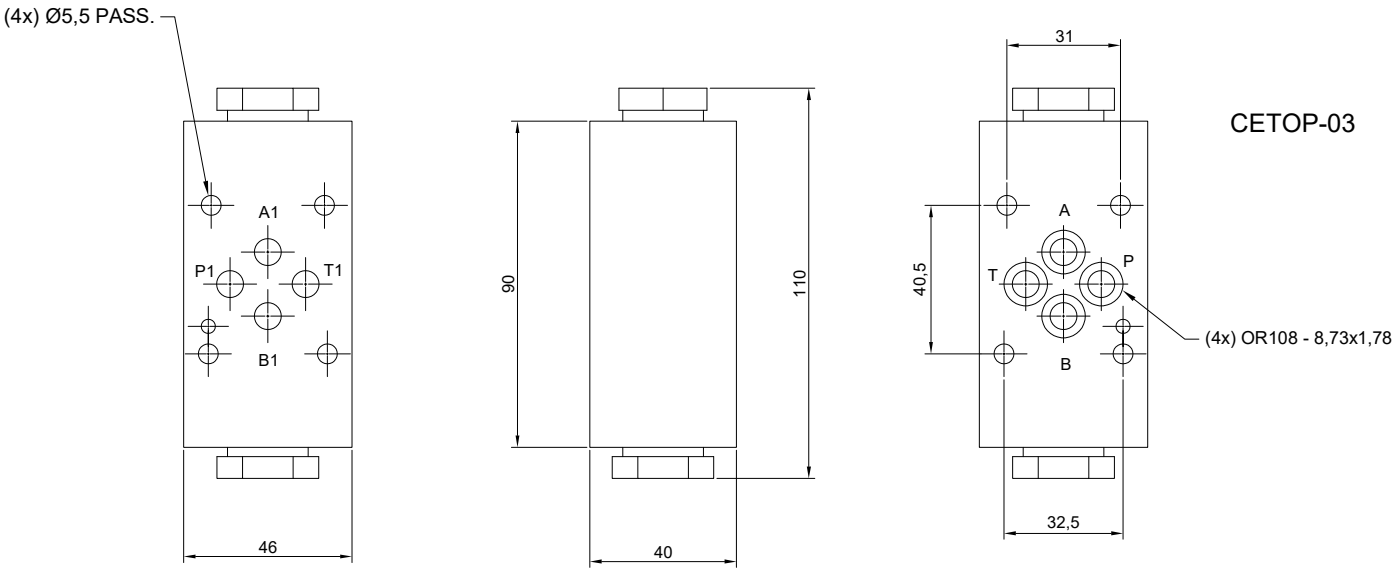
CETOP-03 (ISO-4401)

A = Ritegno su A
A = Check on A
B = Ritegno su B
B = Check on B
P = Ritegno su P
P = Check on P
T = Ritegno su T
T = Check on T

0M marcatura standard
0M standard marking
XM marcatura personalizzata
XM customized marking

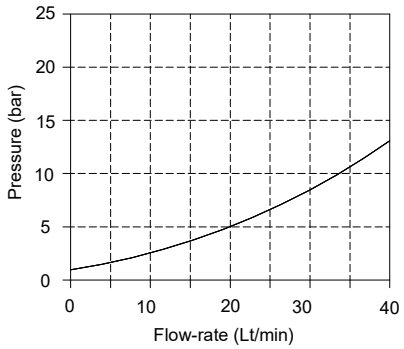
"CODICE" tabella pressioni di apertura
"CODE" cracking pressure table

MECVD3 **

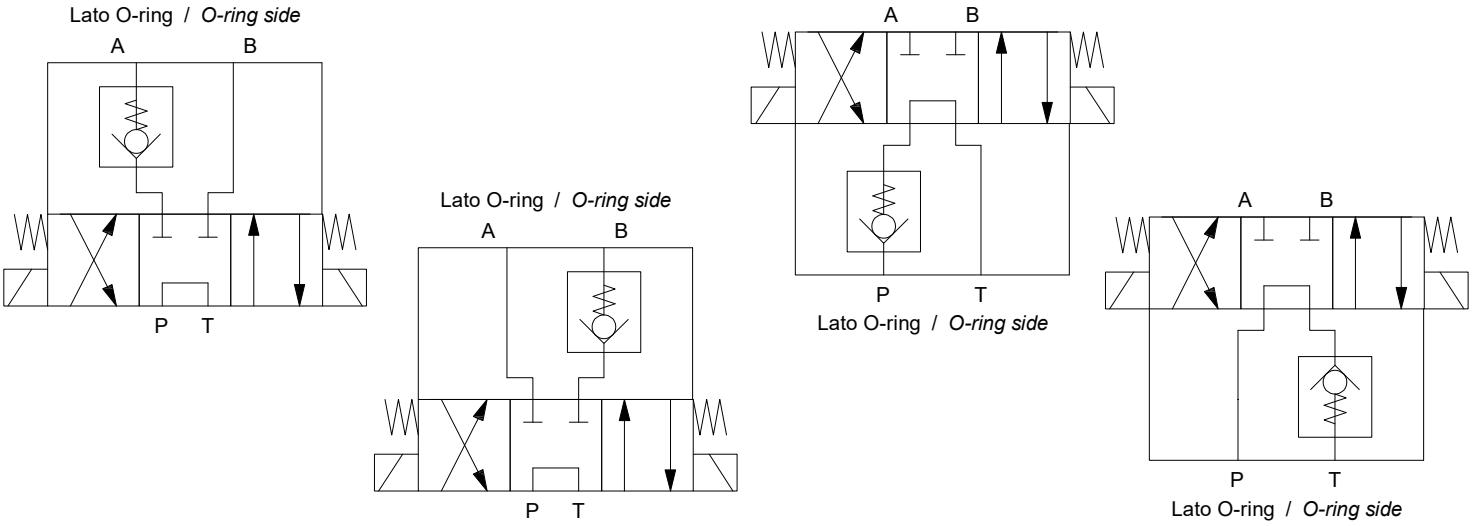


Perdite di carico Valvola di ritegno / *Check valve Pressure drop*

Codice "10" (1 bar) / *Code "10" (1 bar)*



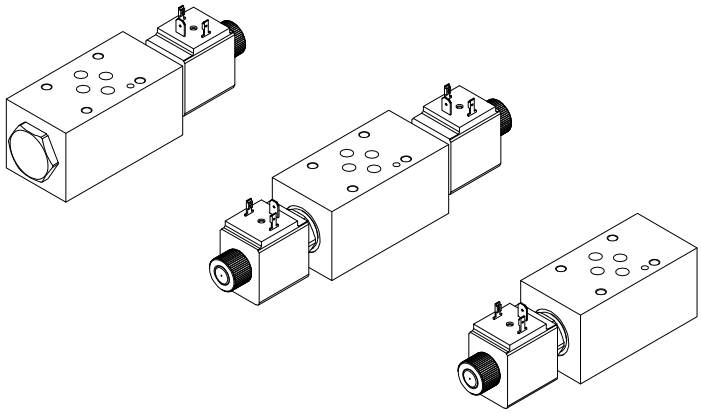
Esempio di applicazione / *Application example*



EMCV3 **

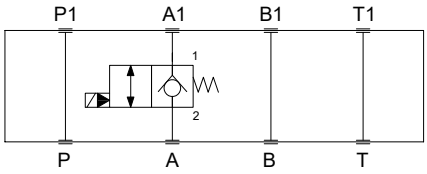
Elettrovalvola ON/OFF 2-Vie 2-Posizioni, montaggio modulare Cetop-03

2-Ways 2-Positions ON/OFF solenoid valve, modular Cetop-03 mounting

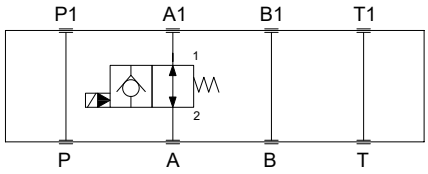


DATI TECNICI *TECHNICAL DATA*	
Portata max / Max flow-rate	40 Lt/min
Pressione max di lavoro / Max working pressure	350 bar
Trafilamento interno max / Max internal leakage	0,25 ml/min
Temp. olio raccomandata / Recommended oil temp.	-30 / +100 °C
Bobina (standard) / Coil (standard)	18 W - DIN43650
Peso / Weight	1,8 Kg
Corpo in Ghisa fosfatata / Phosphated Cast iron body	

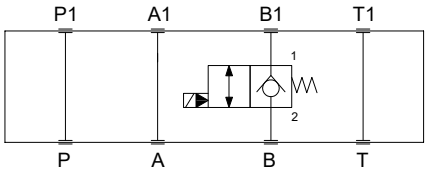
EMCV 3 A NC



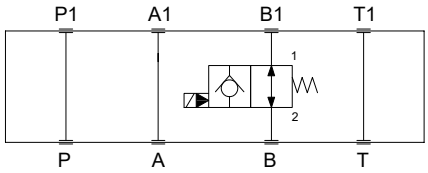
EMCV 3 A NO



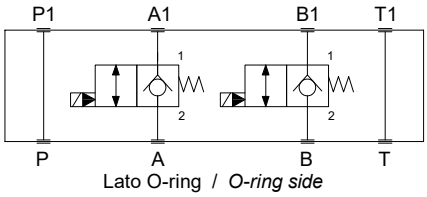
EMCV 3 B NC



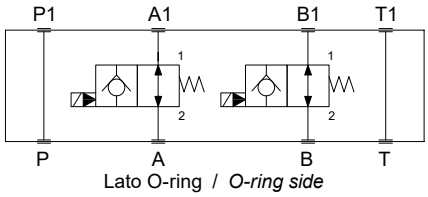
EMCV 3 B NO



EMCV 3 AB NC



EMCV 3 AB NO



Codice di ordinazione - *Ordering code*

EMCV 3 ** ** ** **

CETOP-03 (ISO-4401)

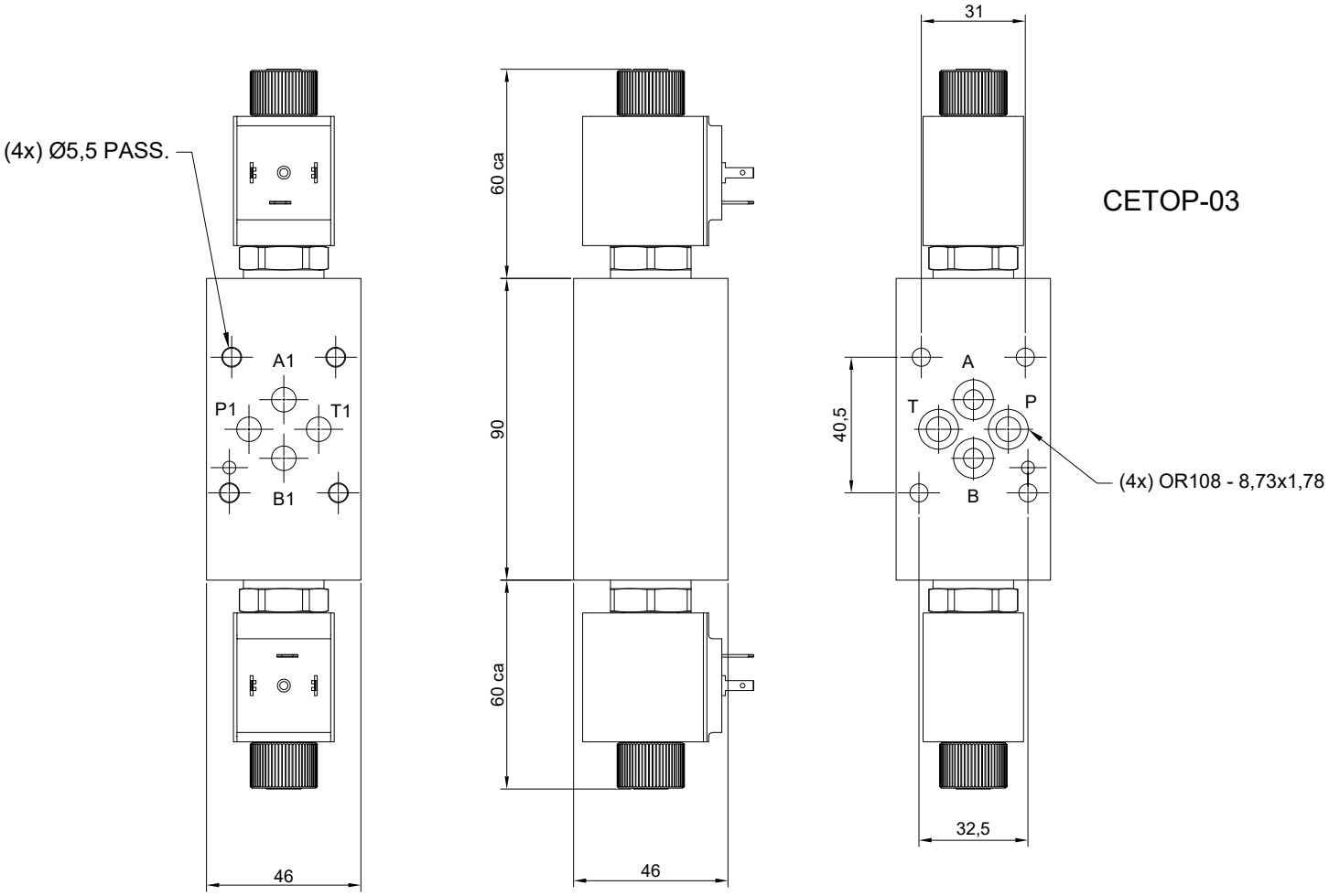
A = Valvola su A
A = Valve on A
B = Valvola su B
B = Valve on B
AB = Valvole su A e B
AB = Valves on A and B

NC = Elettrovalvola 2/2 normalmente chiusa
NC = 2/2 Normally closed solenoid valve
NO = Elettrovalvola 2/2 normalmente aperta
NO = 2/2 Normally open solenoid valve

12DC = 12 Vdc
24DC = 24 Vdc
110AC = 110 Vac 50-60 Hz
220AC = 220 Vac 50-60 Hz

0M marcatura standard
0M standard marking
XM marcatura personalizzata
XM customized marking

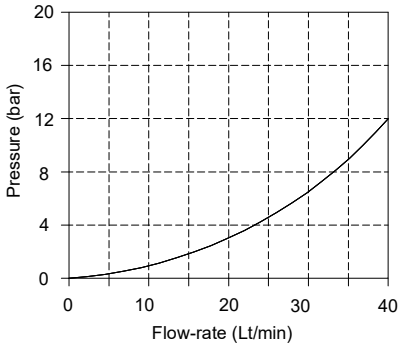
EMCV3 **



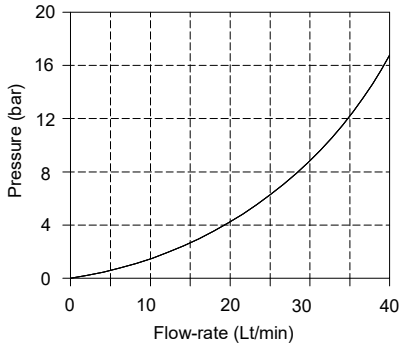
Rappresentato il Modello "AB". Per i modelli "A" e "B", eliminare la valvola rispettivamente sui lati A o su B.
Model "AB" is shown. For models "A" and "B", remove the valve on side A or B, respectively.

Perdite di carico Elettrovalvola / *Solenoid valve Pressure drop*

Modello NC / *NC model*



Modello NO / *NO model*

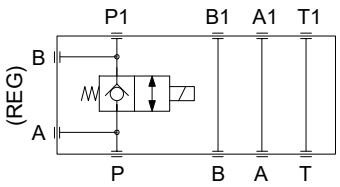


EMV3FS **

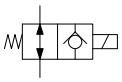
Collettore modulare con Elettrovalvola 2/2 di by-pass per soluzione Rapido/Lento, interfaccia CETOP-03

Modular manifold with 2/2 by-pass Solenoid valve for Fast/Slow solution, CETOP-03 interface

EMV3FS P NC

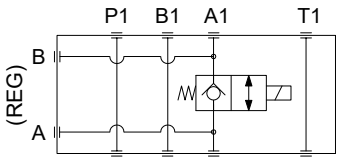


NO

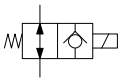


Lato O-ring / *O-ring side*

EMV3FS A NC

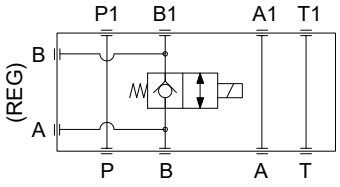


NO

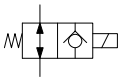


Lato O-ring / *O-ring side*

EMV3FS B NC

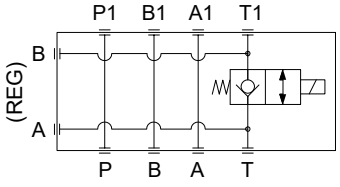


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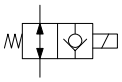


Lato O-ring / *O-ring side*

EMV3FS T NC

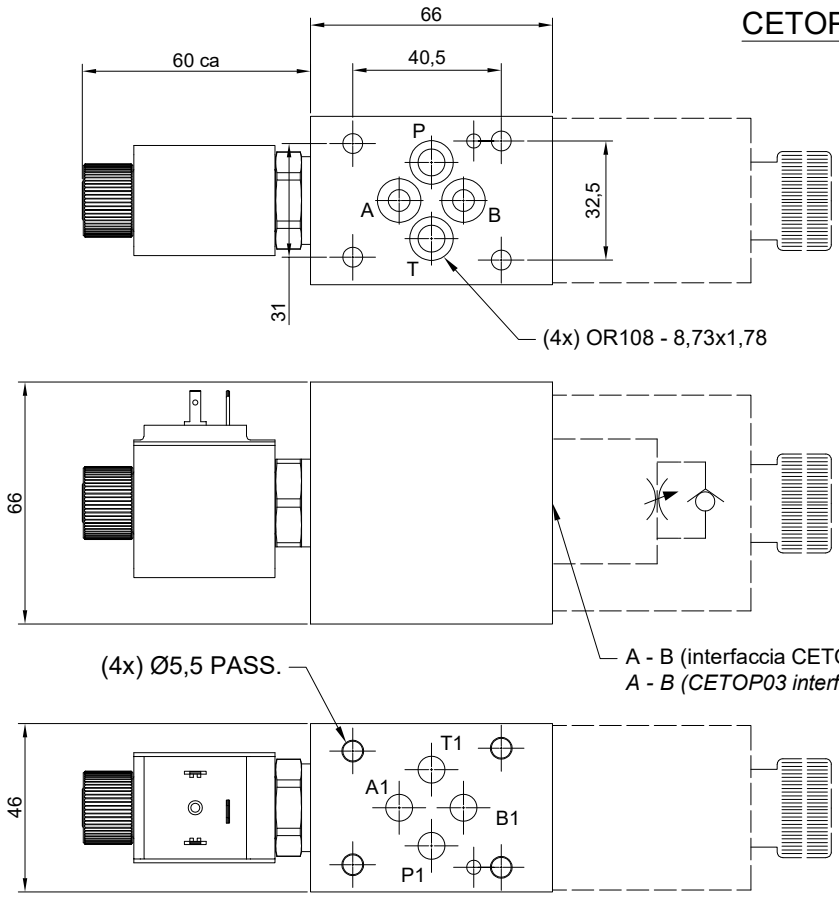


NO



Lato O-ring / *O-ring side*

CETOP-03



Esempio di applicazione REGOLATORE DI FLUSSO (non incluso)

Application example FLOW REGULATOR (not included)

DATI TECNICI *TECHNICAL DATA*	
Portata max / Max flow	40 Lt/min
Pressione max di lavoro / Max working pressure	350 bar
Peso (senza regolatore) / Weight (without regulator)	1,5 Kg
Corpo in Ghisa fosfatata / Phosphated Cast iron body	

Codice di ordinazione - *Ordering code*

EMV3FS * ** (MO) ** **

A = Valvole su A (controllo METER-OUT)
A = Valves on A (METER-OUT control)
B = Valvole su B (controllo METER-OUT)
B = Valves on B (METER-OUT control)
T = Valvole su T (controllo METER-OUT)
T = Valves on T (METER-OUT control)

P = Valvole su P (controllo METER-IN)
P = Valves on P (METER-IN control)

NO = elettrovalvola 2/2 normalmente aperta
NO = normally open 2/2 solenoid valve
NC = elettrovalvola 2/2 normalmente chiusa
NC = normally closed 2/2 solenoid valve

12DC = 12 Vdc
24DC = 24 Vdc
110AC = 110 Vac 50-60 Hz
220AC = 220 Vac 50-60 Hz

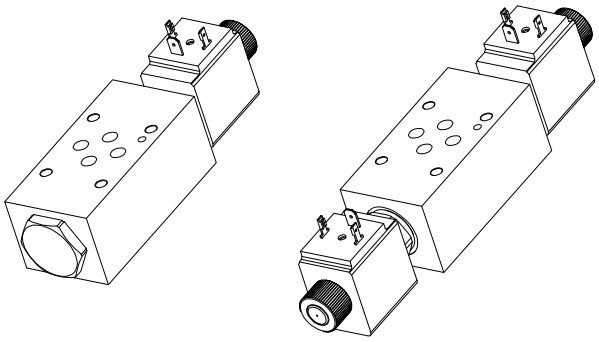
(MO) = comando manuale (su richiesta)
(MO) = manual override (on request)

0M marcatura standard
0M standard marking
XM marcatura personalizzata
XM customized marking

EMV3 **

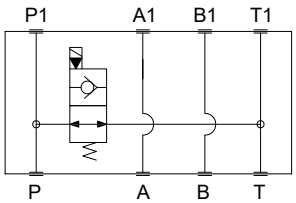
Elettrovalvola ON-OFF 2/2 messa a scarico, montaggio modulare Cetop-03

Unloading 2/2 ON-OFF solenoid valve, modular Cetop-03 mounting



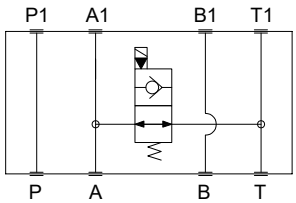
DATI TECNICI *TECHNICAL DATA*	
Portata max / Max flow-rate	40 Lt/min
Pressione max di lavoro / Max working pressure	350 bar
Trafilamento interno max / Max internal leakage	0,25 ml/min
Temp. olio raccomandata / Recommended oil temp.	-30 / +100 °C
Bobina (standard) / Coil (standard)	18 W - DIN43650
Peso / Weight	1,6 Kg
Corpo in Ghisa fosfatata / Phosphated Cast iron body	

EMV3 P NO



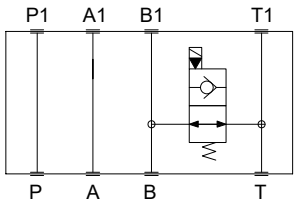
Lato O-ring / *O-ring side*

EMV3 A NO



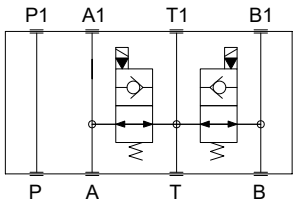
Lato O-ring / *O-ring side*

EMV3 B NO



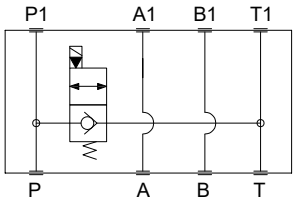
Lato O-ring / *O-ring side*

EMV3 AB NO



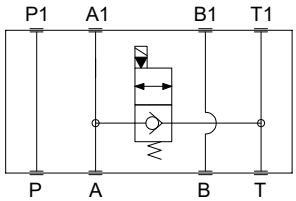
Lato O-ring / *O-ring side*

EMV3 P NC



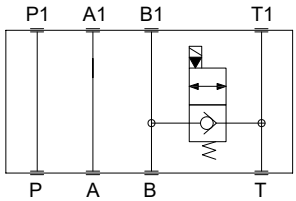
Lato O-ring / *O-ring side*

EMV3 A NC



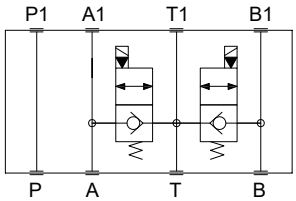
Lato O-ring / *O-ring side*

EMV3 B NC



Lato O-ring / *O-ring side*

EMV3 AB NC



Lato O-ring / *O-ring side*

Codice di ordinazione - *Ordering code*

EMV 3 ** ** ** **

CETOP-03 (ISO-4401)

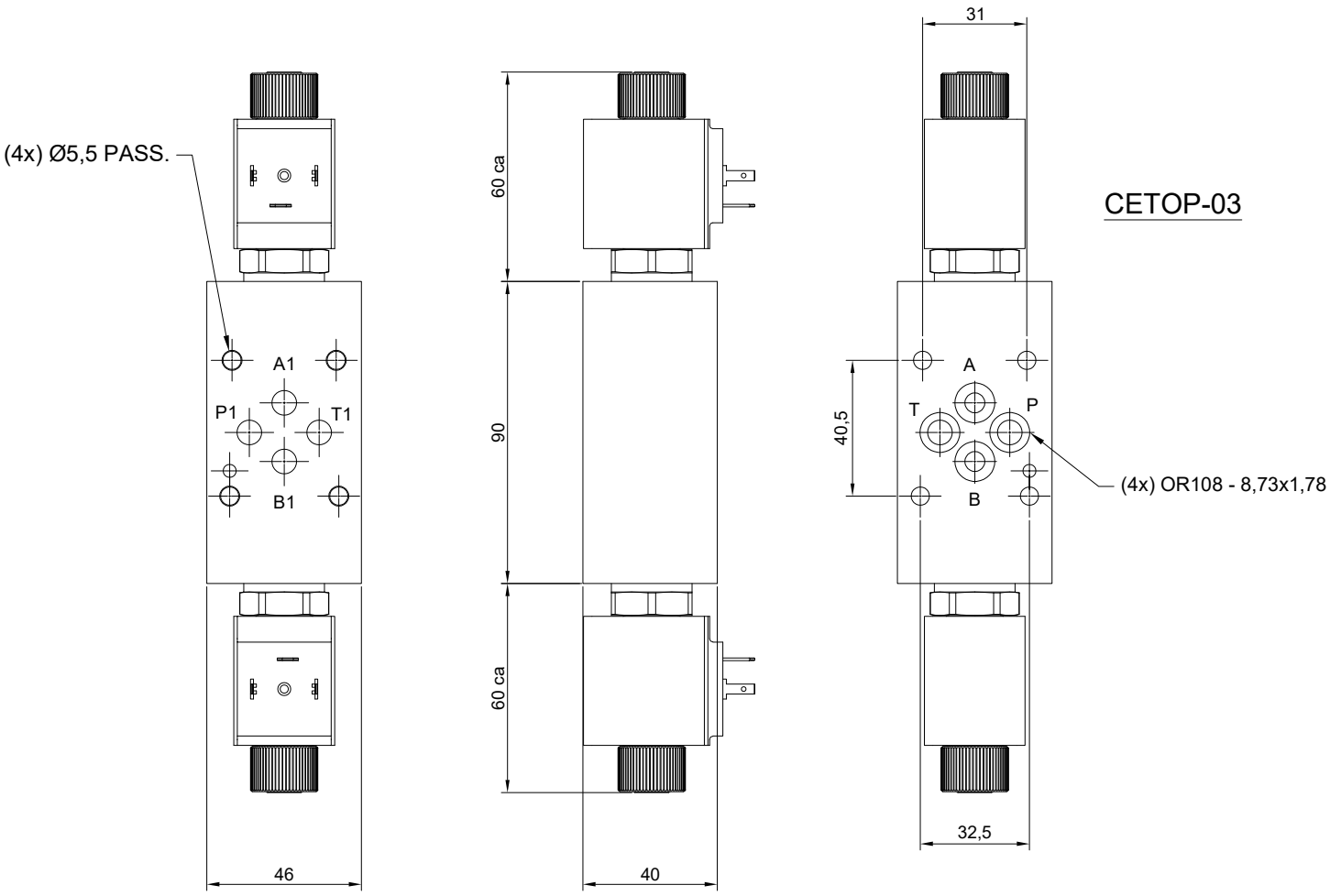
P = Valvola su P in T
P = Valve on P to T
A = Valvola su A in T
A = Valve on A to T
B = Valvola su B in T
B = Valve on B to T
AB = Valvole su A-B in T
AB = Valves on A-B to T

NO = Elettrovalvola 2/2 normalmente aperta
NO = 2/2 Normally open solenoid valve
NC = Elettrovalvola 2/2 normalmente chiusa
NC = 2/2 Normally closed solenoid valve

12DC = 12 Vdc
24DC = 24 Vdc
110AC = 110 Vac 50-60 Hz
220AC = 220 Vac 50-60 Hz

0M marcatura standard
0M standard marking
XM marcatura personalizzata
XM customized marking

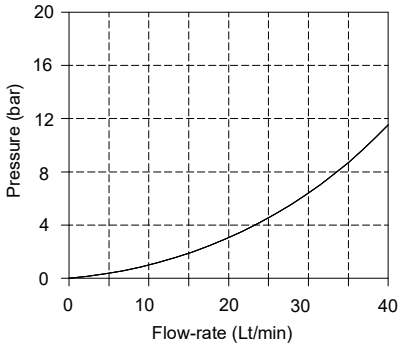
EMV3 **



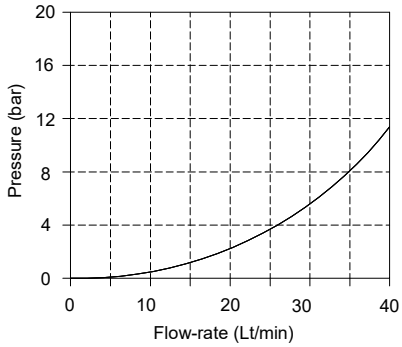
Rappresentato il Modello "AB". Per i modelli "P", "A" e "B", eliminare la valvola rispettivamente sui lati A o su B.
Model "AB" is shown. For models "P", "A" and "B", remove the valve on side A or B, respectively.

Perdite di carico Elettrovalvola / *Solenoid valve Pressure drop*

Modello NO / *NO model*

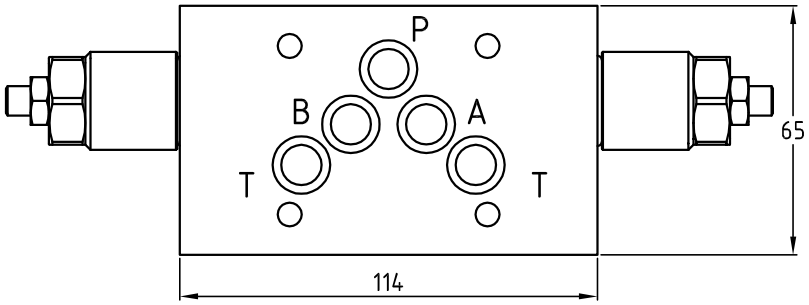


Modello NC / *NC model*

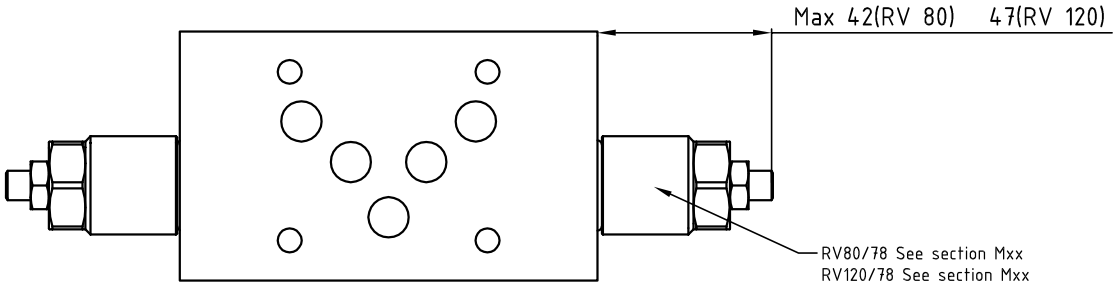


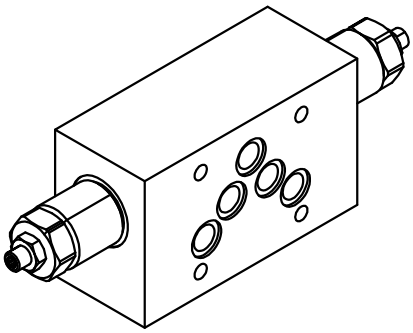
MRV5AB

Valvola modulare di massima pressione Cetop 05 in ghisa
Modular relief valve Cetop 05 in cast iron



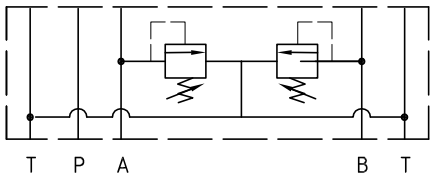






Kg = 1.6

Hydraulic diagram



SETTING PRESSURE TABLE

RV80/78	Optimized	Total
	A= 5÷75	
	B= 76÷125	(10÷180)
	C= 120÷220	(10÷240)
	D= 220÷350	(50÷350)
RV120/78	A= 20÷280	
	B= 140÷280	
	C= 240÷400	

Esempio di ordinazione – Ordering code

MRV 5 AB 80 *

Setting pressure

80 = RV80/78 See Section M05
120 = RV120/78 See Section M07

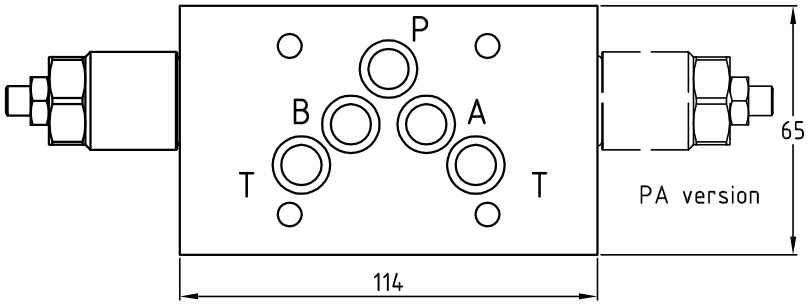
AB = limitazione su A e B
AB = limitation on A and B

Cetop 05

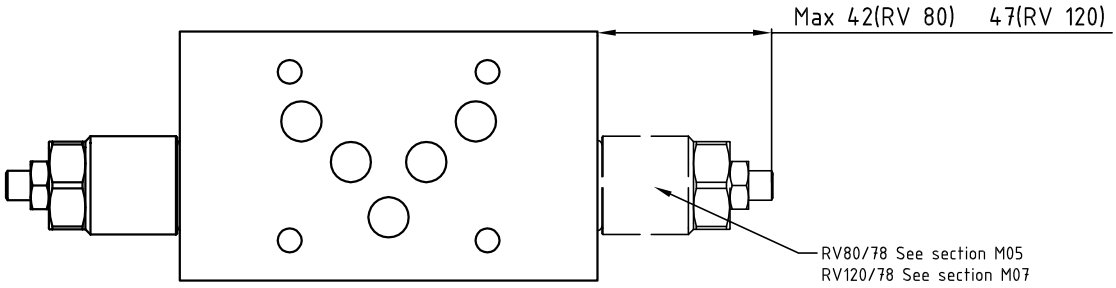
Valvola di massima modulare cetop 05 in ghisa
Modular relief valve cetop 05 in cast iron

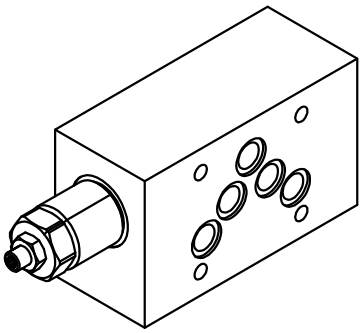
MRV5P

Valvola modulare di massima pressione Cetop 05 in ghisa
Modular relief valve Cetop 05 in cast iron



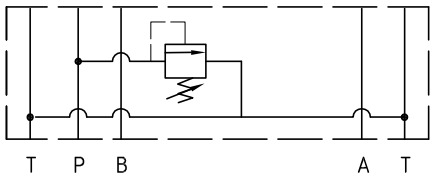






Kg = 1.6

Hydraulic diagram



SETTING PRESSURE TABLE

RV80/78	Optimized	Total
	A= 5÷75	
	B= 76÷125	(10÷180)
	C= 120÷220	(10÷240)
	D= 220÷350	(50÷350)
RV120/78	A= 20÷280	
	B= 140÷280	
	C= 240÷400	

Esempio di ordinazione – Ordering code

MRV 5 P ** **

Setting pressure

Valvola di massima modulare in ghisa
Modular relief valve in cast iron

80 = RV80/78 See Section M05
120 = RV120/78 See Section M07

P = limitazione su P
P = limitation on P

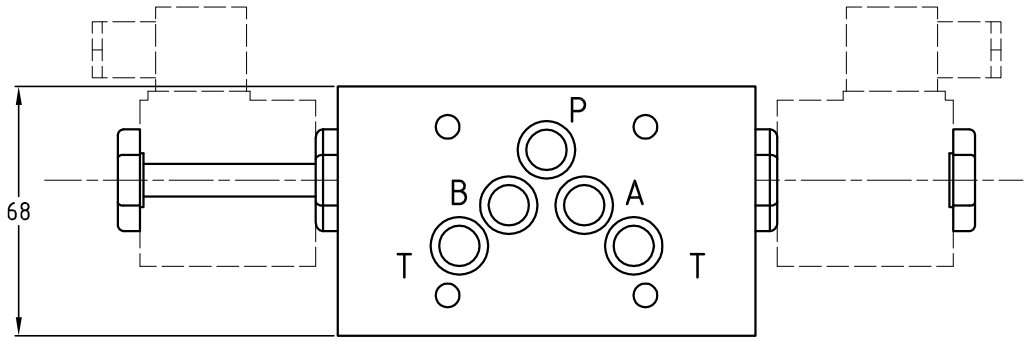
Cetop 05

a richiesta
on request

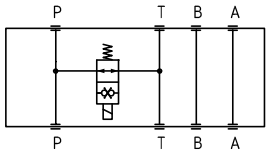
PA = limitazione su P lato A
PA = limitation on P side A

EMV5**

Valvola modulare di messa a scarico Cetop 05 in ghisa
Modular venting valve Cetop 05 in cast iron

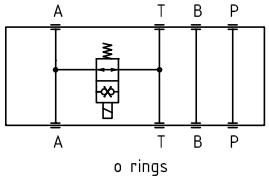


P version NO

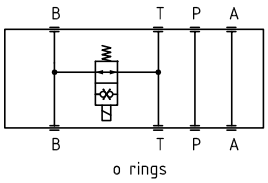




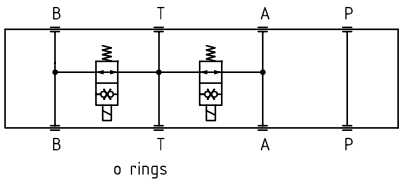
A version NO



B version NO



AB version NO



Esempio di ordinazione - ordering code

EMV 5 ** ** **

Elemento modulare messa a scarico in ghisa
Modular element in cast iron with solenoid valve for Venting

Cetop 05

A = Valvola su A
A = Valve on A

B = Valvola su B
B = Valve on B

AB = Valvola su A e B
AB = Valve on A and B

P = Valvola su P
P = Valve on P

NO = normalmente aperto
NO = normally open

NC = normalmente chiuso
NC = normally closed

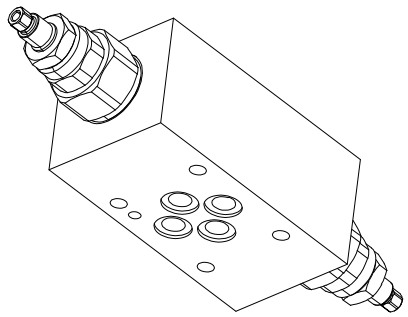
Tensione solenodie
Solenoid coil

12DC=12 VDC 24DC=24 VDC
24AC=24 VAC-50/60Hz

110AC=110 VAC-50/60Hz
220AC=220 VAC-50/60Hz

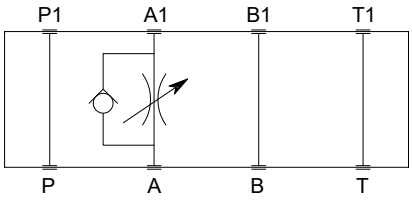
MQR3 **

Valvola di controllo portata unidirezionale, montaggio modulare Cetop-03
Unidirectional Flow control valve, modular Cetop-03 mounting



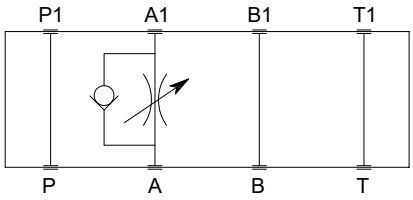
DATI TECNICI *TECHNICAL DATA*	
Portata max / Max flow-rate	40 Lt/min
Pressione max di lavoro / Max working pressure	350 bar
Temp. olio raccomandata / Recommended oil temp.	-30 / +100 °C
Peso / Weight	1,3 Kg
Corpo in Ghisa fosfatata / Phosphated Cast iron body	

MQR 3 A



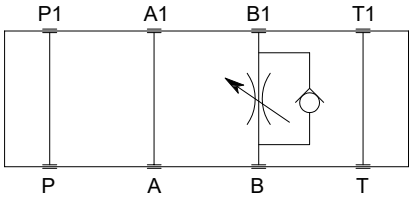
Lato O-ring / *O-ring side*

MQR 3 A IN



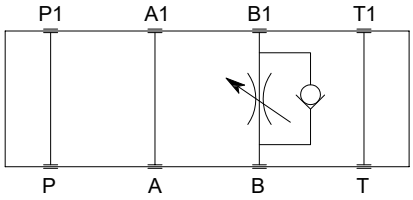
Lato O-ring / *O-ring side*

MQR 3 B



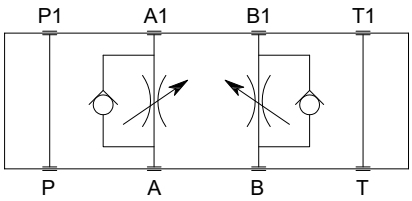
Lato O-ring / *O-ring side*

MQR 3 B IN



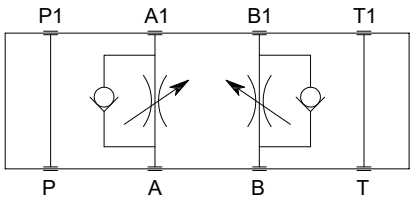
Lato O-ring / *O-ring side*

MQR 3 AB



Lato O-ring / *O-ring side*

MQR 3 AB IN



Lato O-ring / *O-ring side*

Codice di ordinazione - *Ordering code*

MQR 3 ** ** **

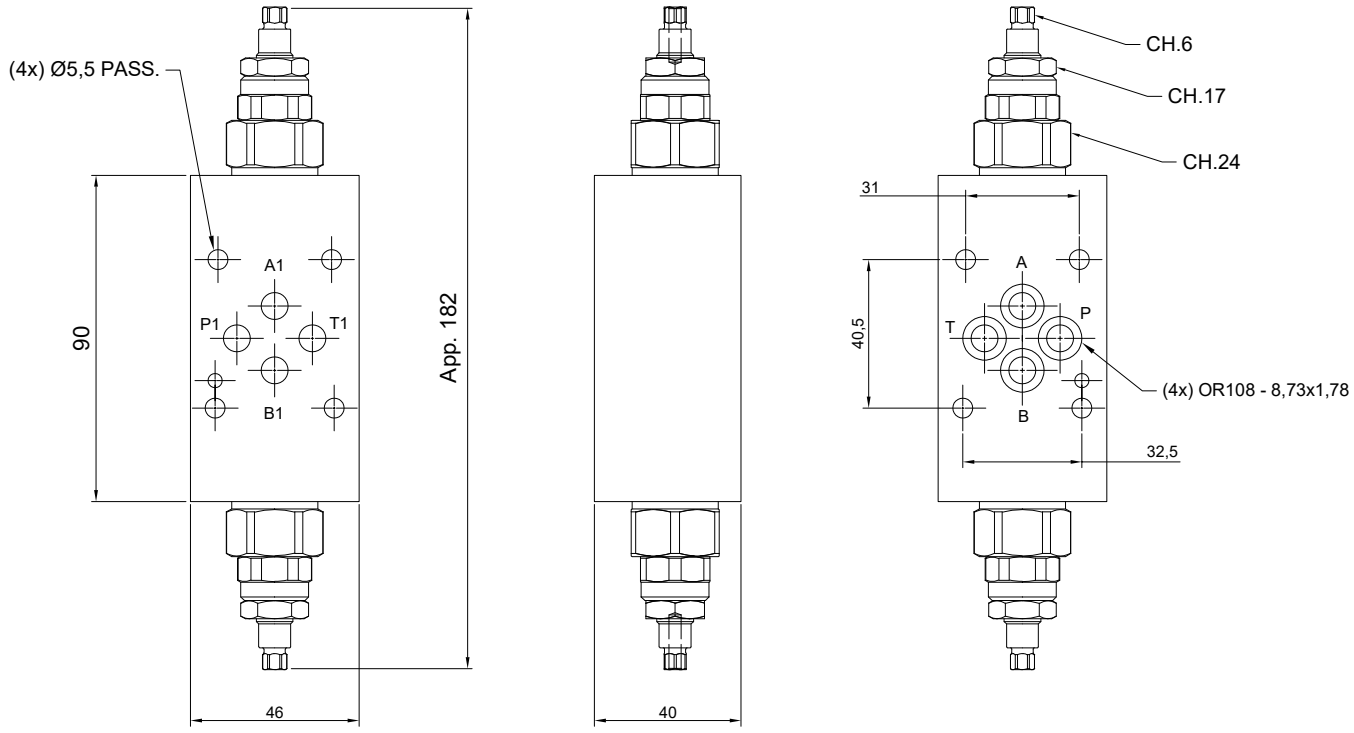
CETOP-03 (ISO-4401)

A = Regolatore su A
A = Regulator on A
B = Regolatore su B
B = Regulator on B
AB = Regolatore su A e su B
AB = Regulator on A and B

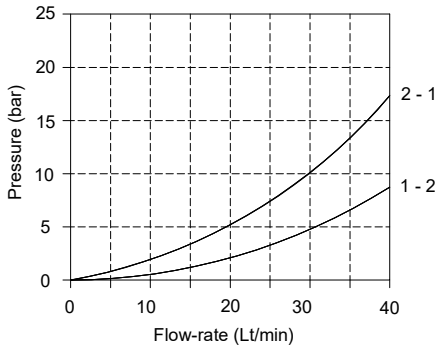
"OMETTERE" controllo meter-out (standard)
"OBMIT" meter-out control (standard)
IN controllo meter-in
IN meter-in control

0M marcatura standard
0M standard marking
XM marcatura personalizzata
XM customized marking

MQR3 **

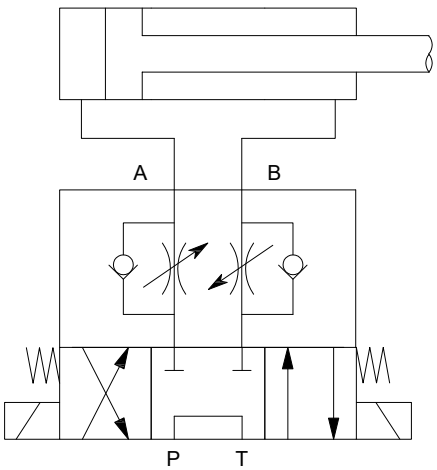


Perdite di carico Regolatore / *Regulator Pressure drop*

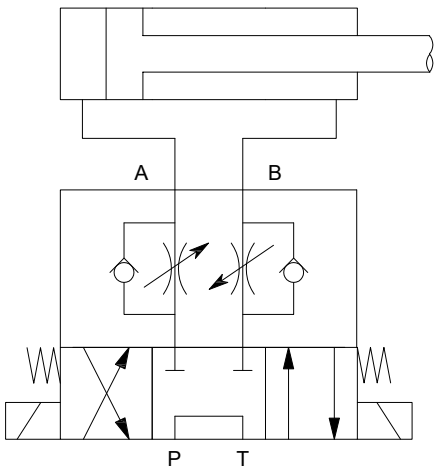


Esempio di applicazione / *Application example*

Meter-out



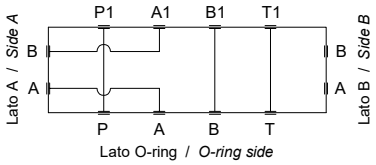
Meter-in



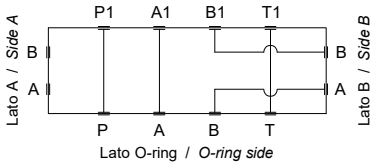
MFR 03

Collettore modulare configurabile, interfaccia CETOP-03 (ISO-4401-03)
Configurable modular Manifold, CETOP-03 interface (ISO-4401-03)

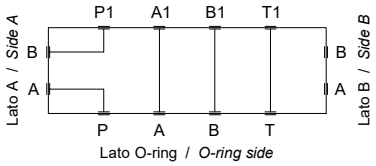
AA



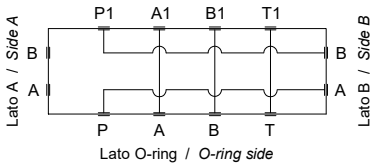
BB



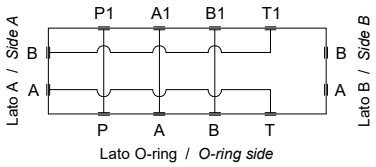
PA



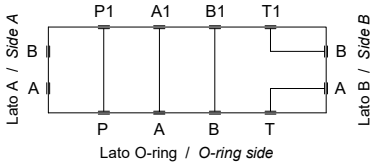
PB

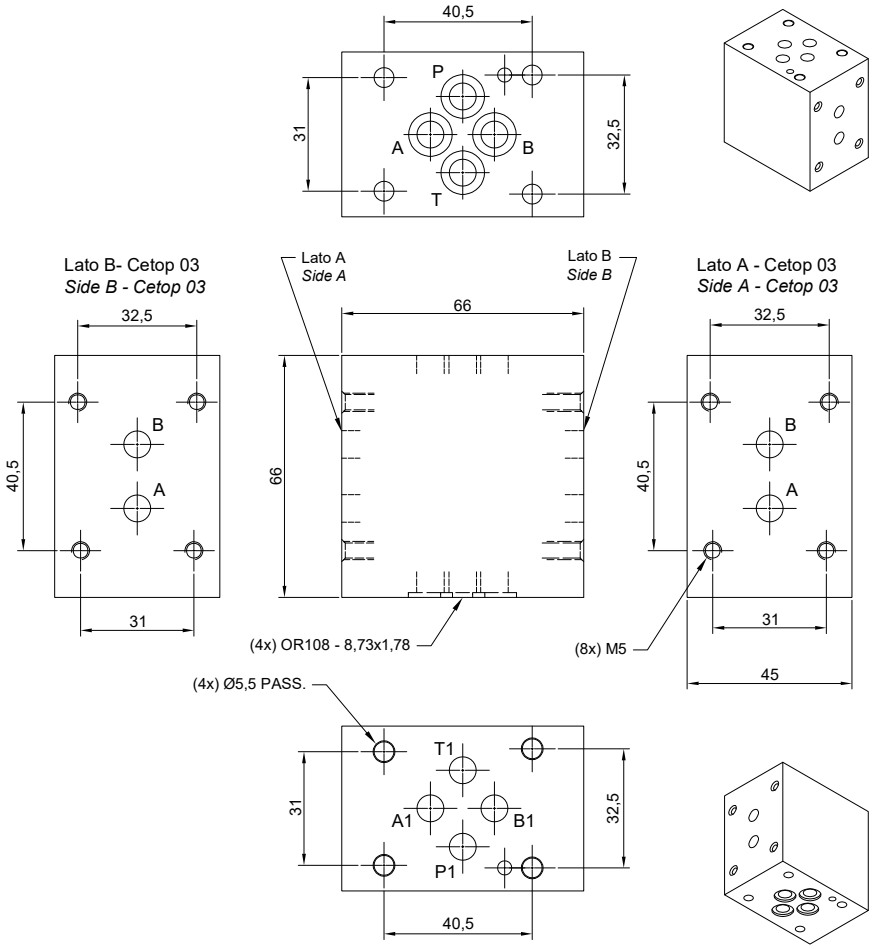


TA



TB





DATI TECNICI *TECHNICAL DATA*	
Portata max (raccomandata) / Max flow (recommended)	40 Lt/min
Pressione max di lavoro / Max working pressure	350 bar
Peso / Weight	1,3 Kg
Corpo in Ghisa fosfatata / Phosphated Cast iron body	

Codice di ordinazione - *Ordering code*

MFR 03 ** **

Modulare CETOP-03 (NG6)
Modular CETOP-03 (NG6)

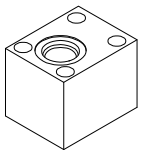
- AA elemento su linea A-A1 e corpo montato su lato A
- AA element on A-A1 line and body mounted on side A
- BB elemento su linea B-B1 e corpo montato su lato B
- BB element on B-B1 line and body mounted on side B
- PA elemento su linea P-P1 e corpo montato su lato A
- PA element on P-P1 line and body mounted on side A
- PB elemento su linea P-P1 e corpo montato su lato B
- PB element on P-P1 line and body mounted on side B
- TA elemento su linea T-T1 e corpo montato su lato A
- TA element on T-T1 line and body mounted on side A
- TB elemento su linea T-T1 e corpo montato su lato B
- TB element on T-T1 line and body mounted on side B

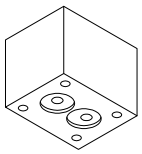
- 0M marcatura standard
- 0M standard marking
- XM marcatura personalizzata
- XM customized marking

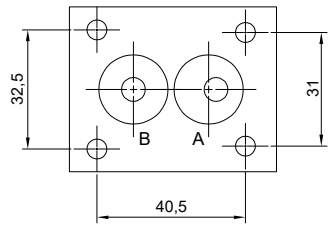
Utilizzabile con Corpo adattatore BRQ03 (vedi pag. G14)
Usable with Body adaptor BRQ03 (see pag. G14)

BRQ 03

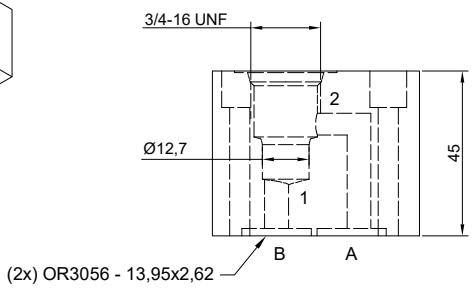
Corpo adattatore, interfaccia CETOP-03 / cavità SAE08-2
Body adaptor, CETOP-03 interface / SAE08-2 cavity



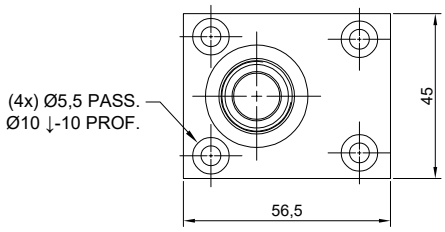




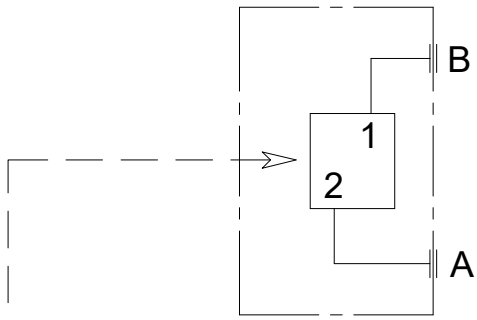
CETOP-03



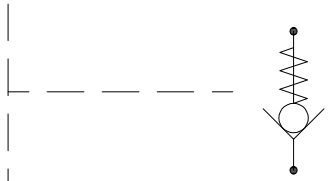
Cavità SAE08-2
SAE08-2 Cavity



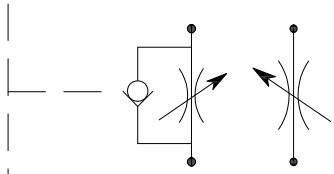
Viti TCEI M5x45
Screw TCEI M5x45



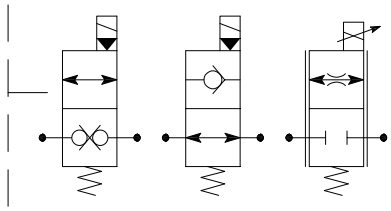
Esempi di Elementi utilizzabili SAE08-2
Examples of usable SAE08-2 Elements



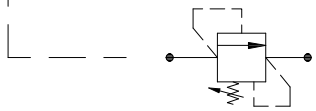
Valvola di blocco
Check valve



Regolatore di flusso
Flow regulator



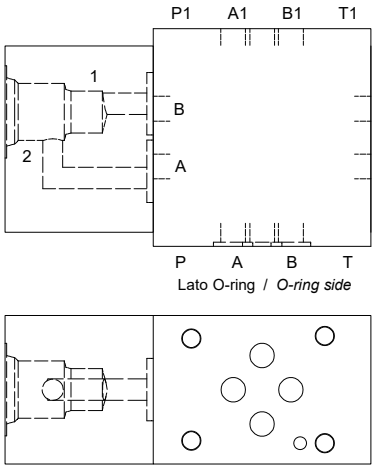
Valvola elettrica
Solenoid valve



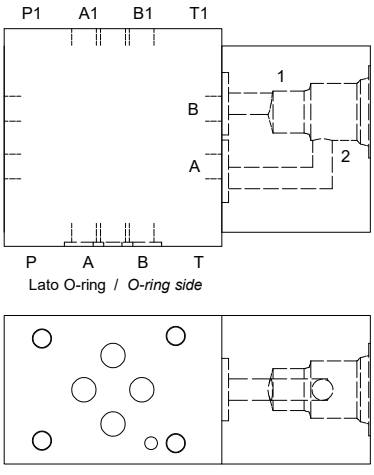
Valvola di pressione
Pressure valve

Esempio di applicazione / *Application example*

Montaggio Lato A / *Side A mounting*



Montaggio Lato B / *Side B mounting*



DATI TECNICI *TECHNICAL DATA*	
Portata max (raccomandata) / Max flow (recommended)	40 Lt/min
Pressione max di lavoro / Max working pressure	350 bar
Peso / Weight	0,7 Kg
Corpo in Ghisa fosfatata / Phosphated Cast iron body	

Codice di ordinazione - *Ordering code*

BRQ 03 **

Interfaccia CETOP-03 (NG6)
CETOP-03 interface (NG6)

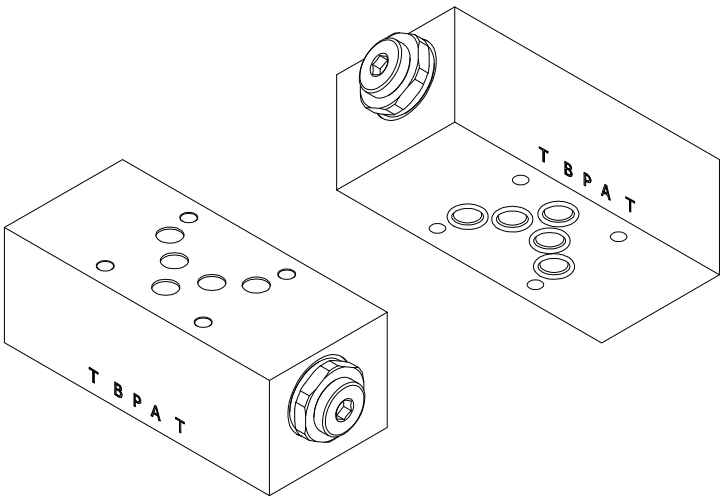
0M marcatura standard
0M standard marking
XM marcatura personalizzata
XM customized marking

Utilizzabile con Collettore modulare MFR03 (vedi pag. G13)
Usable with Modular manifold MFR03 (see pag. G13)

MECVD5 **

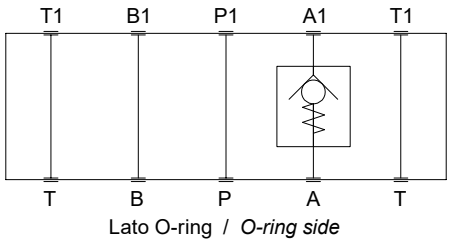
Valvola di ritegno unidirezionale diretta, montaggio modulare Cetop-05

Direct operated unidirectional check valve, modular Cetop-05 mounting



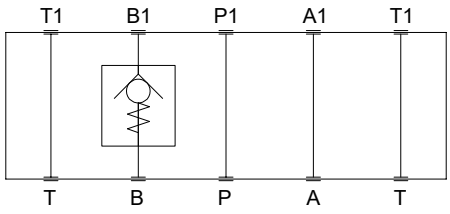
DATI TECNICI *TECHNICAL DATA*	
Portata max / Max flow-rate	120 Lt/min
Pressione max di lavoro / Max working pressure	350 bar
Pressione di apertura / Cracking pressure	Vedi tab. *See table*
Trafilamento interno max / Max internal leakage	0,25 ml/min
Temp. olio raccomandata / Recommended oil temp.	-30 / +80 °C
Peso / Weight	3,4 Kg
Corpo in Ghisa fosfatata / Phosphated Cast iron body	

MECVD 5 A



Lato O-ring / *O-ring side*

MECVD 5 B



Lato O-ring / *O-ring side*

Tabella Pressioni di apertura *Cracking pressure table*	
Codice / *Code*	Pressione / *Pressure*
05	0,5 bar
20	2,0 bar
40	4,0 bar

Codice di ordinazione - *Ordering code*

MECVD 5 * ** **

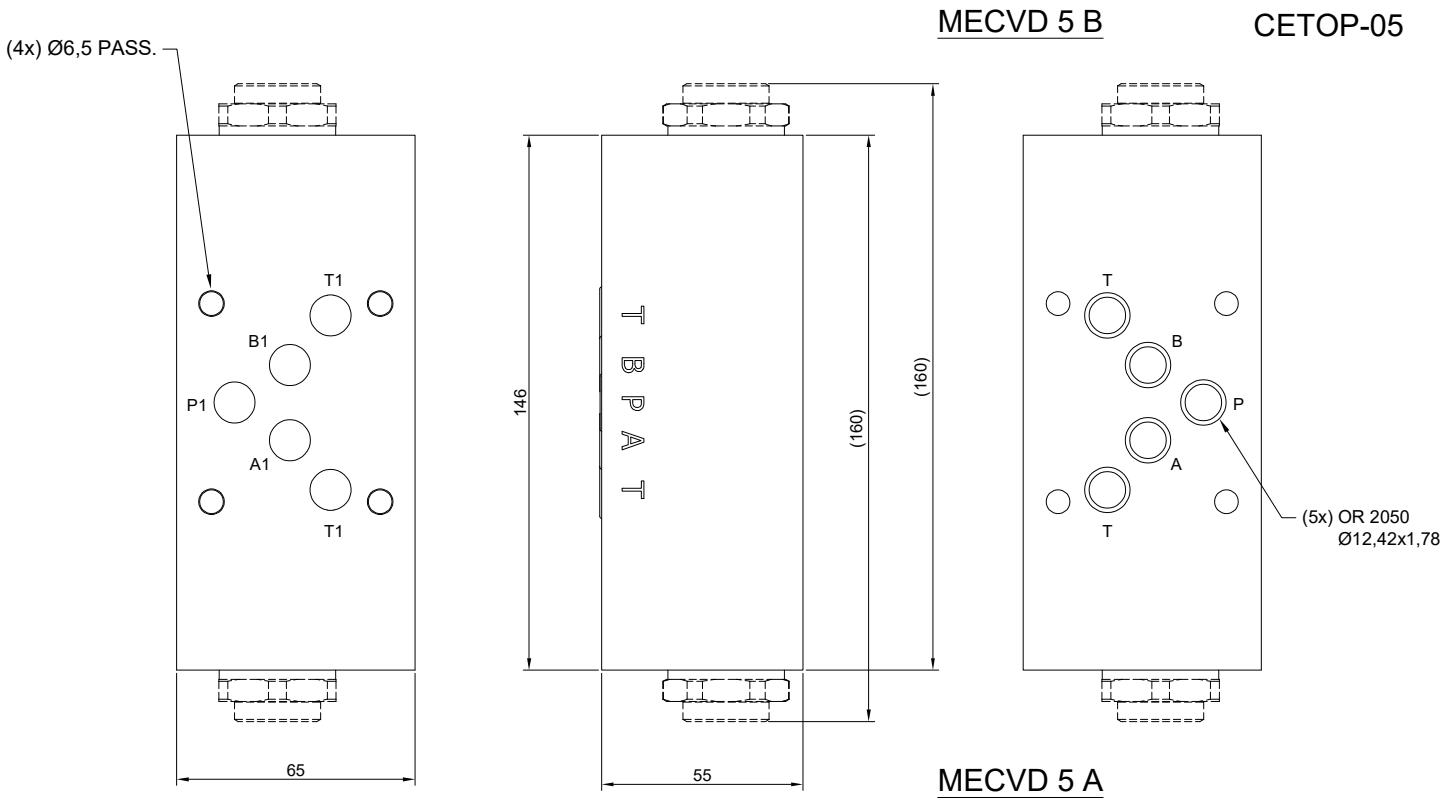
CETOP-05 (ISO-4401)

A = Ritegno su A
A = Check on A
B = Ritegno su B
B = Check on B

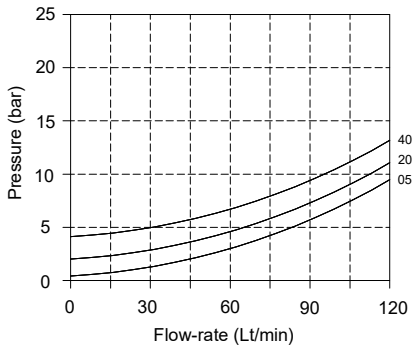
"CODICE" tabella pressioni di apertura
"CODE" cracking pressure table

0M marcatura standard
0M standard marking
XM marcatura personalizzata
XM customized marking

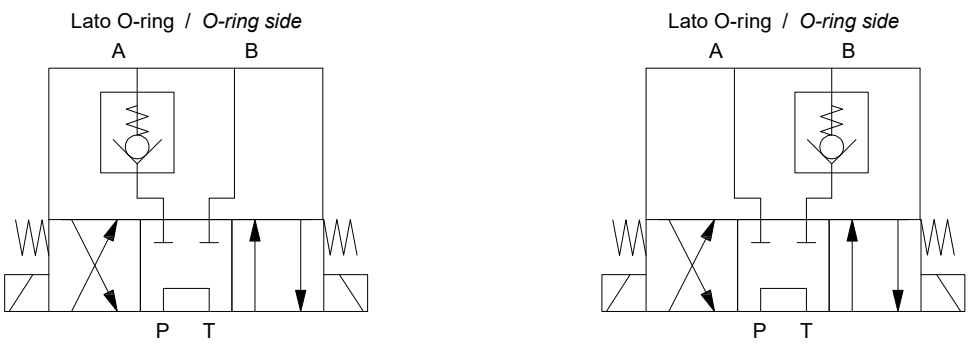
MECVD5 **



Perdite di carico Valvola di ritegno / *Check valve Pressure drop*



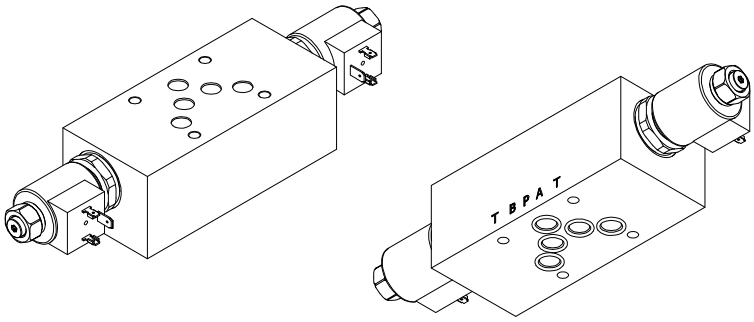
Esempio di applicazione / *Application example*



EMCV5 **

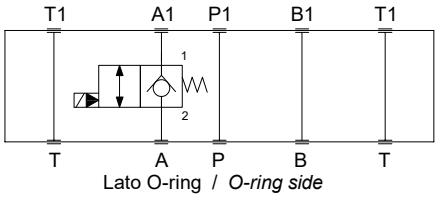
Elettrovalvola ON/OFF 2-Vie 2-Posizioni, montaggio modulare Cetop-05

2-Ways 2-Positions ON/OFF solenoid valve, modular Cetop-05 mounting

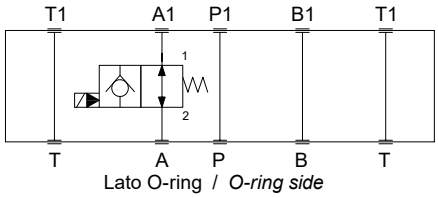


DATI TECNICI *TECHNICAL DATA*	
Portata max / Max flow-rate	120 Lt/min
Pressione max di lavoro / Max working pressure	350 bar
Trafilamento interno max / Max internal leakage	0,25 ml/min
Temp. olio raccomandata / Recommended oil temp.	-30 / +80 °C
Bobina (standard) / Coil (standard)	20 W - DIN43650
Peso / Weight (mod. AB)	4,0 Kg
Corpo in Ghisa fosfatata / Phosphated Cast iron body	

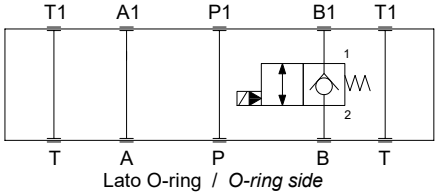
EMCV 5 A NC



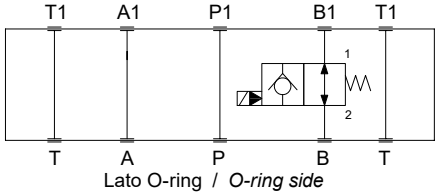
EMCV 5 A NO



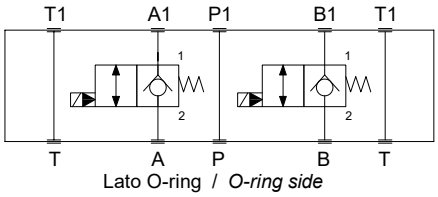
EMCV 5 B NC



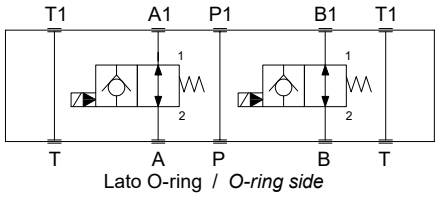
EMCV 5 B NO



EMCV 5 AB NC



EMCV 5 AB NO



Codice di ordinazione - *Ordering code*

EMCV 5 ** ** ** **

CETOP-05 (ISO-4401)

A = Valvola su A
A = Valve on A
B = Valvola su B
B = Valve on B
AB = Valvole su A e B
AB = Valves on A and B

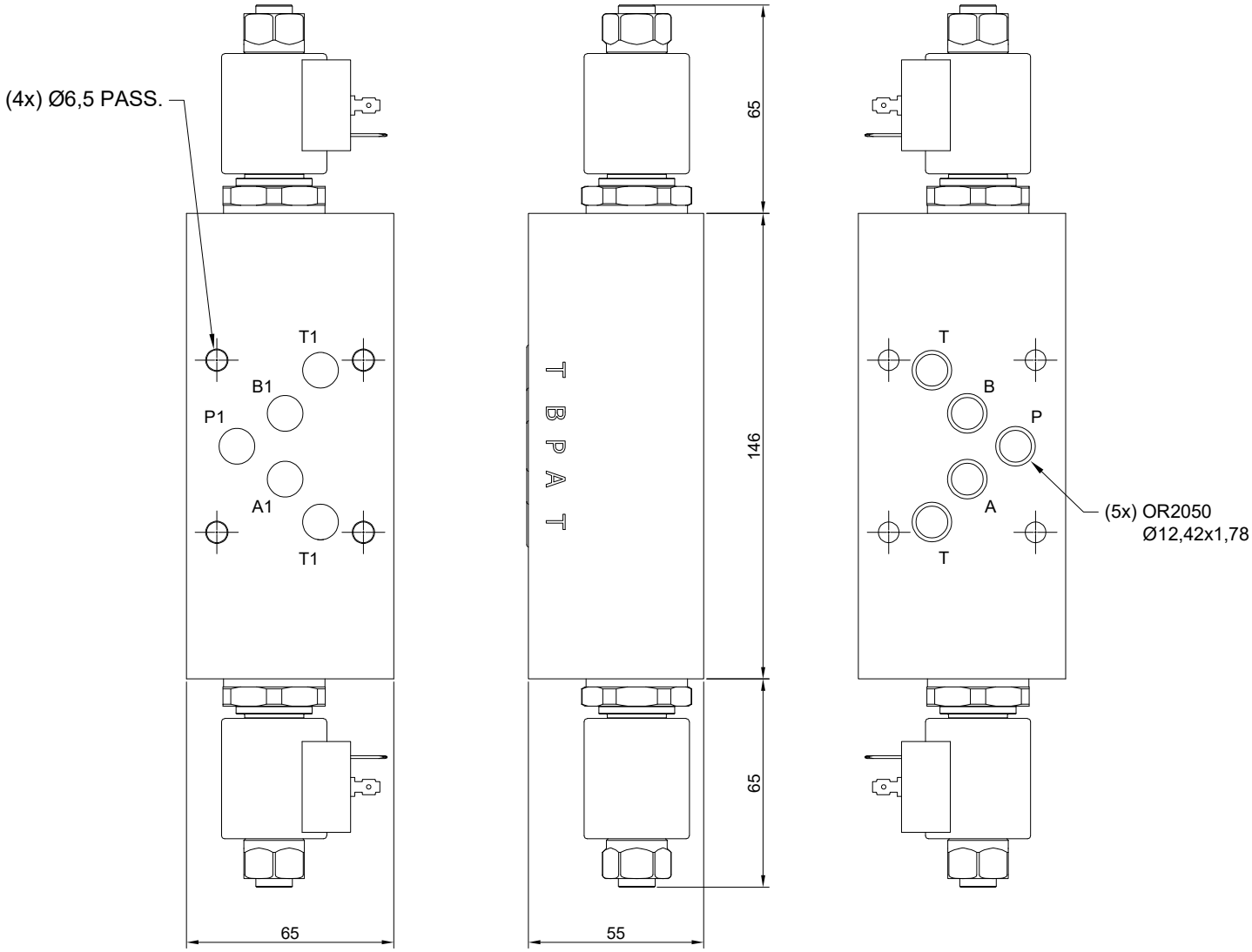
NC = Elettrovalvola 2/2 normalmente chiusa
NC = 2/2 Normally closed solenoid valve
NO = Elettrovalvola 2/2 normalmente aperta
NO = 2/2 Normally open solenoid valve

12DC = 12 Vdc
24DC = 24 Vdc
110AC = 110 Vac 50-60 Hz
220AC = 220 Vac 50-60 Hz

0M marcatura standard
0M standard marking
XM marcatura personalizzata
XM customized marking

EMCV5 **

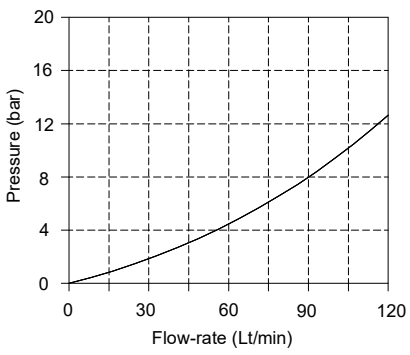
CETOP-05



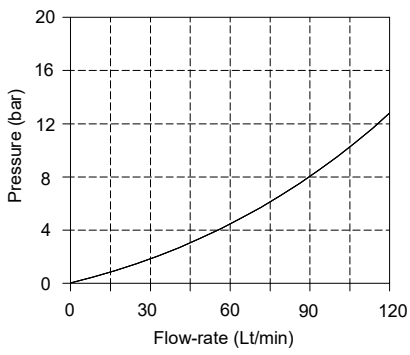
Rappresentato il Modello "AB". Per i modelli "A" e "B", eliminare la valvola rispettivamente sui lati A o su B.
Model "AB" is shown. For models "A" and "B", remove the valve on side A or B, respectively.

Perdite di carico Elettrovalvola / *Solenoid valve Pressure drop*

Modello NC / *NC model*



Modello NO / *NO model*



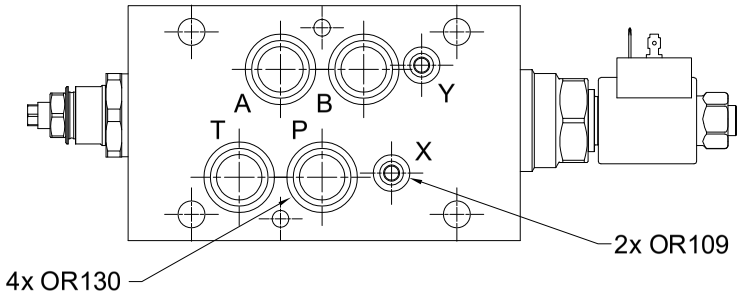
CODICE ORDINAZIONE
ORDERING CODE

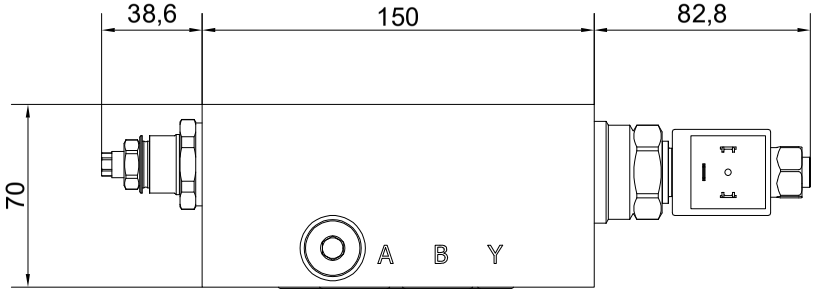
EMV7FS-A ** ** **

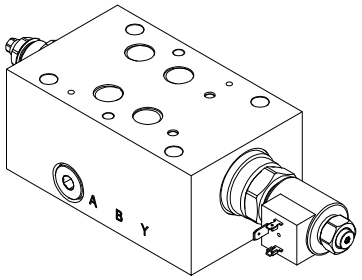
NO = EV normalmente aperta
NO = normally open EV
NC = EV normalmente chiusa
NC = normally closed EV

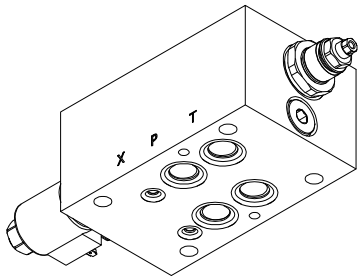
12 = 12 Vdc
24 = 24 Vdc

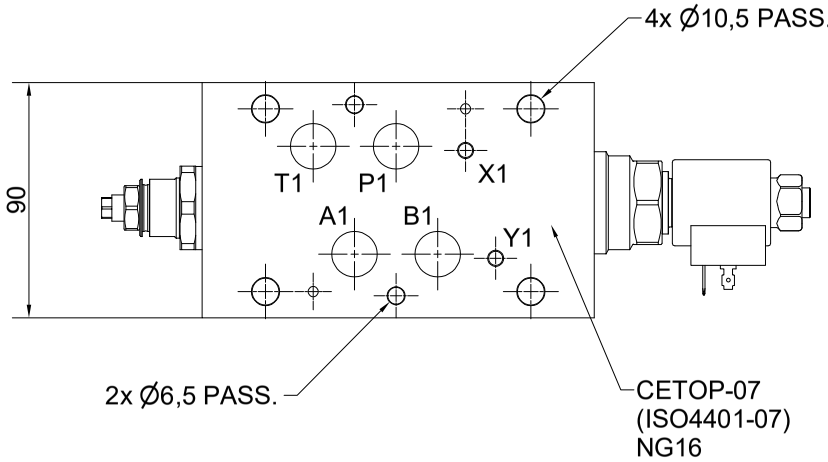
0M marcatura standard
0M standard marking
XM marcatura personalizzata
XM customized marking

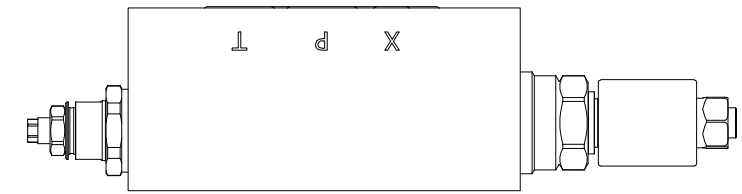






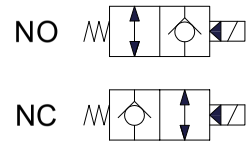




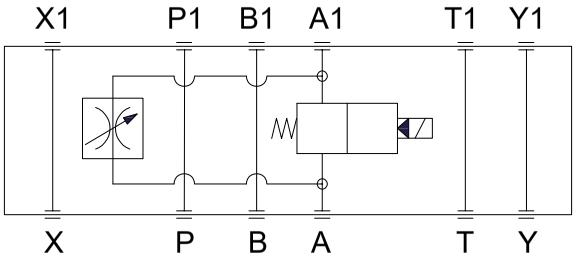


Tailor-made Fluid Technology

Valvola modulare CETOP-7 NG16 per soluzione Rapido/Lento
CETOP-7 NG16 Modular valve for Fast/Slow solution



Controllo METER-OUT su "A"
"A" METER-OUT control



Lato O-Ring / *O-Ring side*

DIM. PORTE *PORTS SIZE*	P - T A - B	X - Y			
	Ø16	Ø5,5			

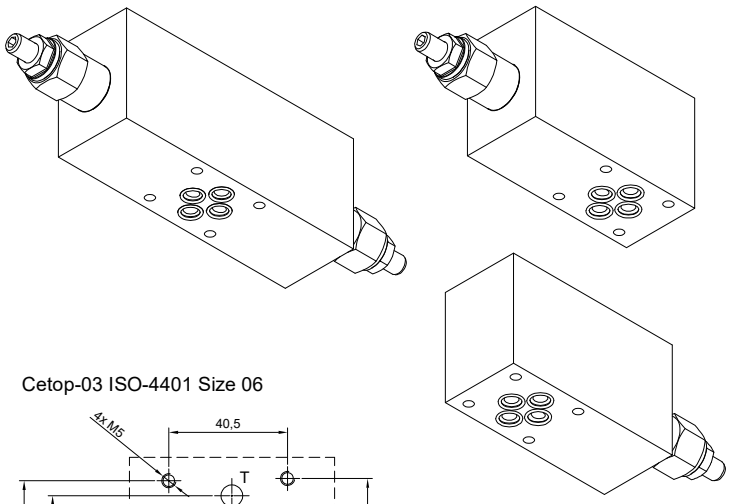
DATI TECNICI *TECHNICAL DATA*	
Portata max / Max flow-rate	150 Lt/min
Pressione max di lavoro / Max working pressure	350 bar
Tipo di fluido utilizzabile / Usable fluid type	Olio idraulico DIN-51524 *Hydraulic oil DIN-51524*
Temp. olio consigliata / Recommended oil temp.	-30 / +80 °C
Filtrazione olio consigliata / Recommended oil cleanliness	20/18/15 ISO-4406
Materiale-Trattamento corpo / Body Material-Treatment	Ghisa (fosfatata) *Cast-Iron (phosphated)*
Peso / Weight	6,305 kg
Tensione nominale bobine / Coils rated voltage	**
Tipo connettori / Connectors type	DIN43650 (std)

QUESTO DOCUMENTO E' PROPRIETÀ DI HYDRO FACTORY. SONO PROIBITE LA RIPRODUZIONE O TRASMISSIONE A TERZI SENZA ESPLICITA AUTORIZZAZIONE.
THIS DOCUMENT IS PROPERTY OF HYDRO FACTORY. IT IS FORBIDDEN TO REPRODUCE OR SHARE IT TO THIRD PARTIES WITHOUT EXPLICIT PERMISSION.

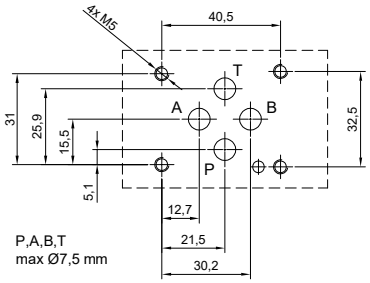
HFOV50 ** CT3

Valvola overcenter, montaggio modulare Cetop-03

Overcenter valve, modular Cetop-03 mounting

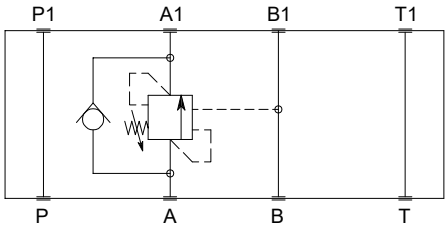


Cetop-03 ISO-4401 Size 06



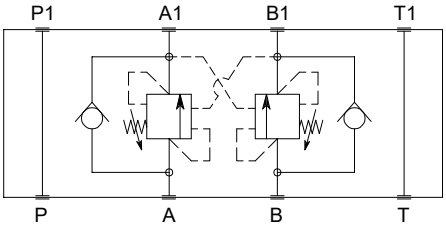
DATI TECNICI *TECHNICAL DATA*		
Portata max / Max flow-rate	50 Lt/min	
Pressione max di lavoro / Max working pressure	250 bar (alu) 350 bar (steel)	
Rapporto di pilotaggio / Pilot ratio	4 : 1	
Campo di taratura / Setting range	50 - 350 bar	
Trafilamento interno max / Max internal leakage	0,5 ml/min	
Filtrazione raccomandata / Recommended filtration	21/18/15 ISO-4406	
Temp. olio raccomandata / Recommended oil temp.	-30 / +80 °C	
Peso / Weight (alu)	1,5 Kg	1,0 Kg
Peso / Weight (steel)	3,5 Kg	2,4 Kg

HFOV50 - SA



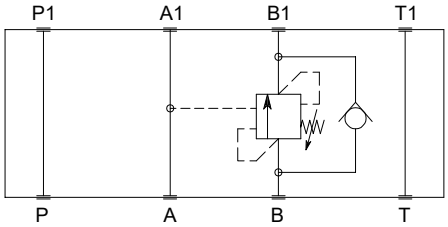
Lato O-ring / *O-ring side*

HFOV50 - D



Lato O-ring / *O-ring side*

HFOV50 - SB



Lato O-ring / *O-ring side*

Codice di ordinazione - *Ordering code*

HFOV-50 ** CT3 * 1-LP

Overcenter (50 Lt/min)

D = Doppio effetto controllo su A-B
D = Double acting control on A-B
SA = Singolo effetto controllo su A
SA = Single acting control on A
SB = Singolo effetto controllo su B
SB = Single acting control on B

Modello regolazione (std)(4:1)
Adjustment model (std)(4:1)

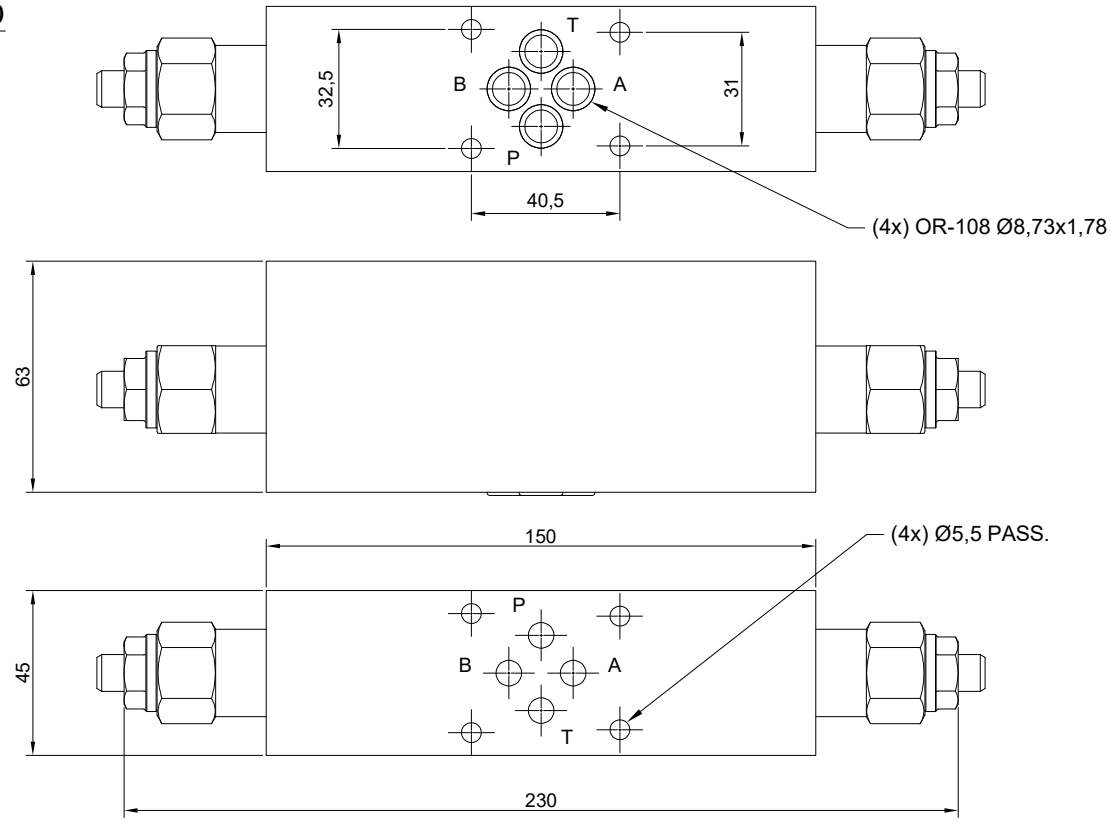
A = Collettore in Alluminio (std)
A = Aluminum Manifold (std)
S = Collettore in Acciaio (su richiesta)
S = Steel Manifold (on request)

Cetop-03 ISO-4401 size 06

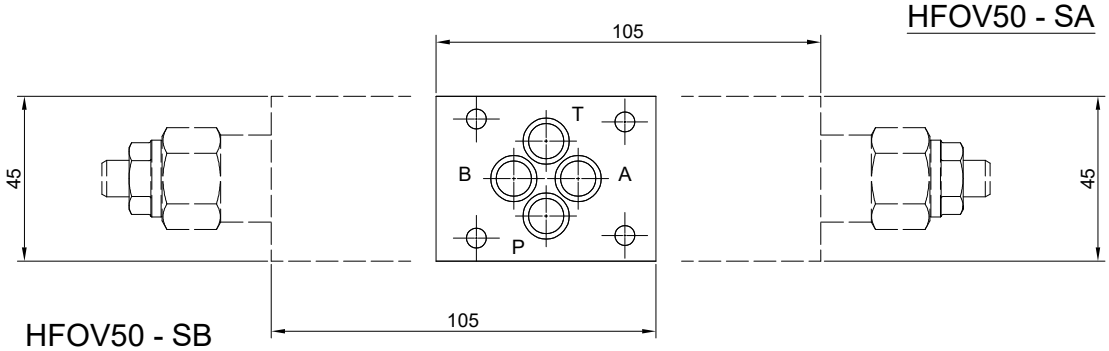
HFOV50 ** CT3

HFOV50 - D

CETOP-03

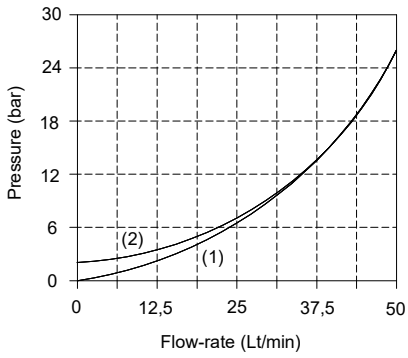


HFOV50 - SA



HFOV50 - SB

Perdite di carico / *Pressure drop*



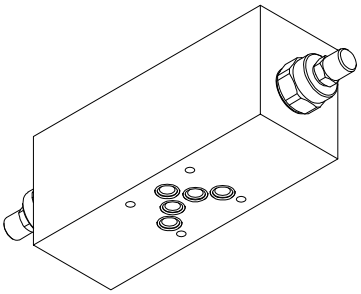
1) Controllo carico - Load control

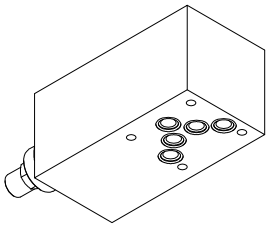
2) Flusso libero - Free flow

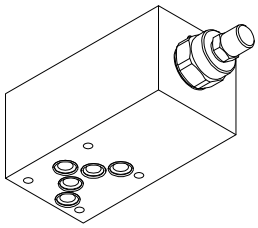
HFOV120 ** CT5

Valvola overcenter, montaggio modulare Cetop-05

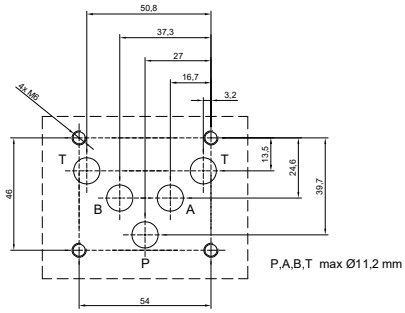
Overcenter valve, modular Cetop-05 mounting





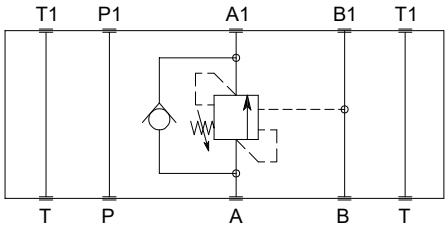


Cetop-05 ISO-4401 Size 10



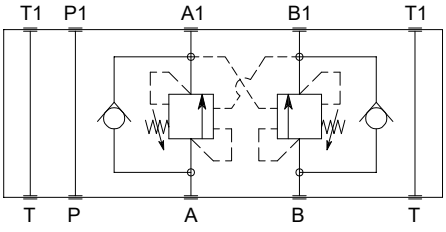
DATI TECNICI *TECHNICAL DATA*		
Portata max / Max flow-rate	120 Lt/min	
Pressione max di lavoro / Max working pressure	250 bar (alu) 350 bar (steel)	
Rapporto di pilotaggio / Pilot ratio	6 : 1	
Campo di taratura / Setting range	50 - 350 bar	
Trafilamento interno max / Max internal leakage	0,5 ml/min	
Filtrazione raccomandata / Recommended filtration	21/18/15 ISO-4406	
Temp. olio raccomandata / Recommended oil temp.	-30 / +80 °C	
Peso / Weight (alu)	3,7 Kg	2,0 Kg
Peso / Weight (steel)	9,2 Kg	4,8 Kg

HFOV120 - SA



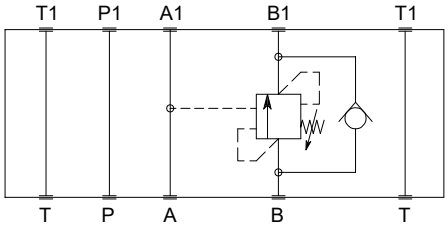
Lato O-ring / *O-ring side*

HFOV120 - D



Lato O-ring / *O-ring side*

HFOV120 - SB



Lato O-ring / *O-ring side*

Codice di ordinazione - *Ordering code*

HFOV-120 ** CT5 * 1-HP

Overcenter (120 Lt/min)

D = Doppio effetto controllo su A-B
D = Double acting control on A-B
SA = Singolo effetto controllo su A
SA = Single acting control on A
SB = Singolo effetto controllo su B
SB = Single acting control on B

Modello regolazione (std)(6:1)
Adjustment model (std)(6:1)

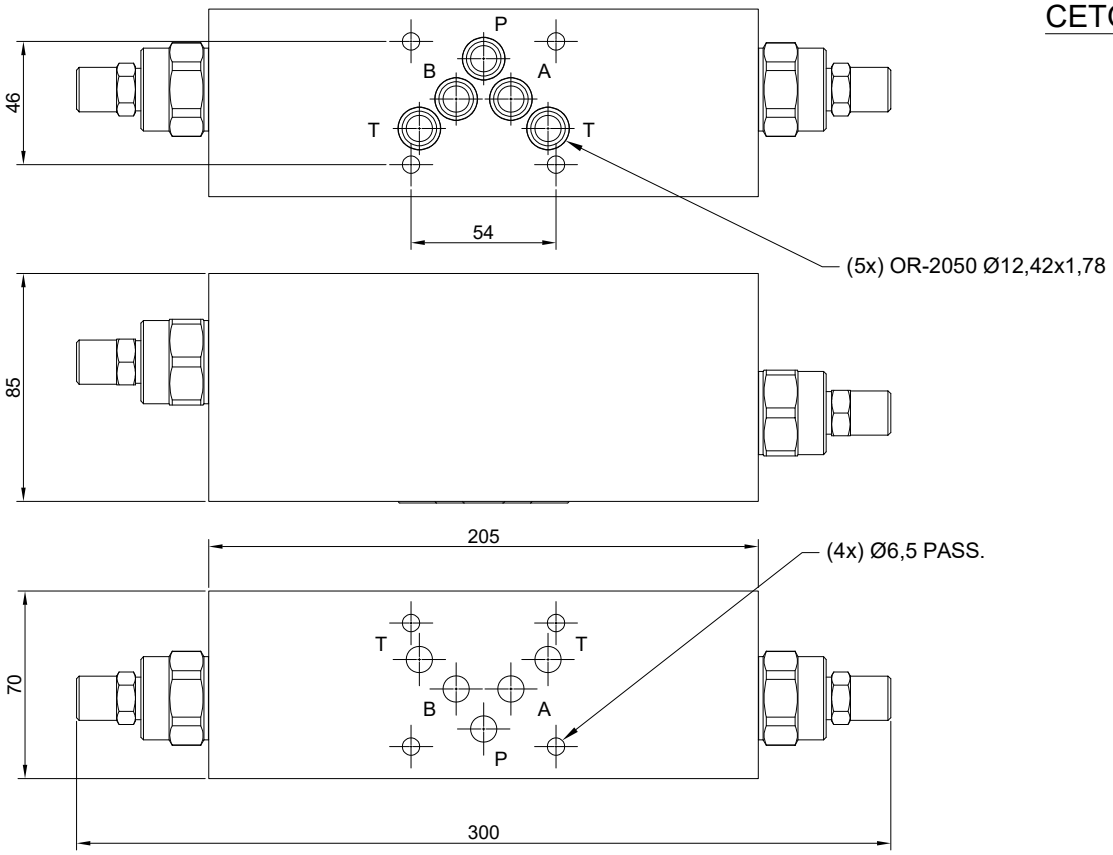
A = Collettore in Alluminio (std)
A = Aluminum Manifold (std)
S = Collettore in Acciaio (su richiesta)
S = Steel Manifold (on request)

Cetop-05 ISO-4401 size 10

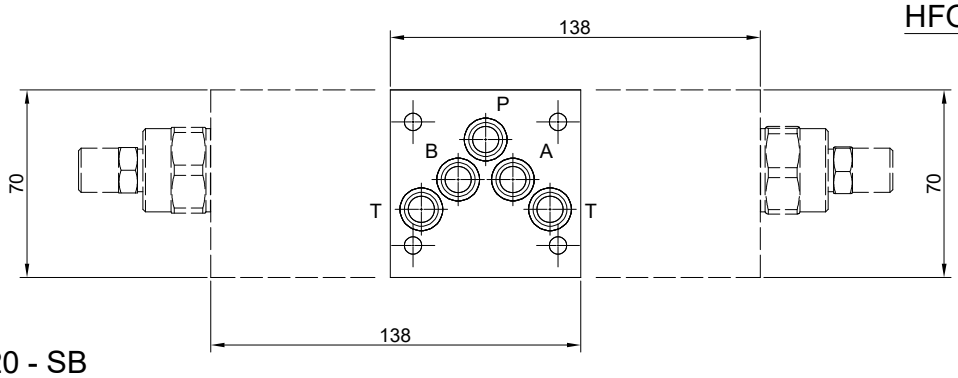
HFOV120 ** CT5

HFOV120 - D

CETOP-05

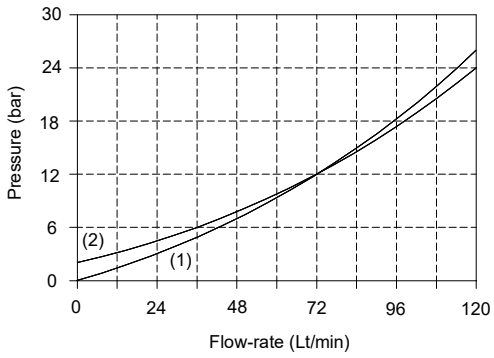


HFOV120 - SA



HFOV120 - SB

Perdite di carico / *Pressure drop*



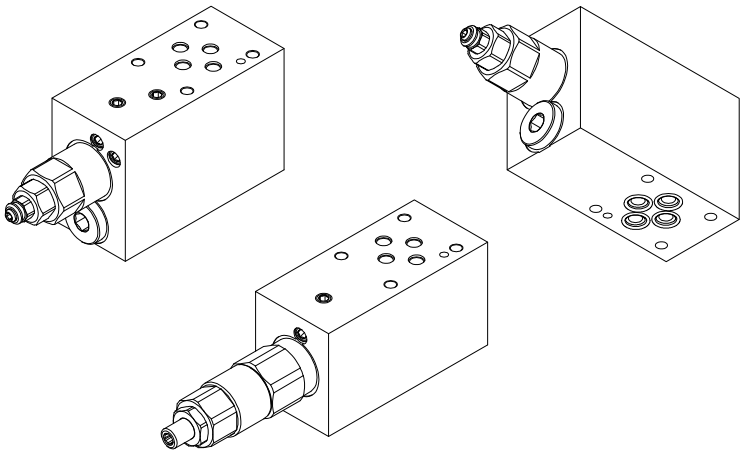
1) Controllo carico - Load control

2) Flusso libero - Free flow

MRRP3 **

Valvola riduttrice di pressione con relieving, montaggio modulare Cetop-03

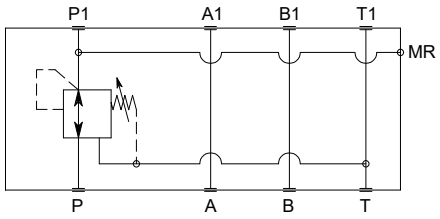
Pressure reducing valve with relieving, modular Cetop-03 mounting



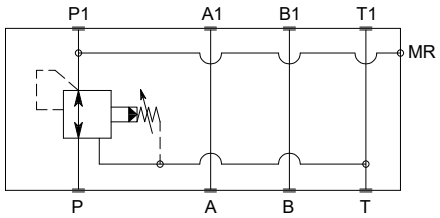
MR = Manometro Prex ridotta = G1/4"

MR = Reduced Prex gauge = G1/4"

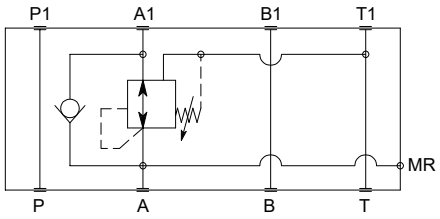
DATI TECNICI *TECHNICAL DATA*		
Portata max / Max flow-rate	mod. D	30 Lt/min
Portata max / Max flow-rate	mod. P	55 Lt/min
Pressione max di lavoro / Max working pressure		250 bar (mod. A) 350 bar (mod. S)
Campo taratura (P rid.) / Setting range (P red.)		Vedi codice Pag. 2/2 See code Pag. 2/2
Trafilamento interno max / Max internal leakage		100 ml/min
Filtrazione raccomandata / Recommended filtration		21/18/15 ISO-4406
Temp. olio raccomandata / Recommended oil temp.		-30 / +80 °C
Peso / Weight	(mod. A)	0,9 Kg
Peso / Weight	(mod. S)	2,1 Kg



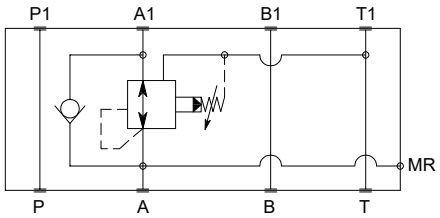
Lato O-ring / *O-ring side*



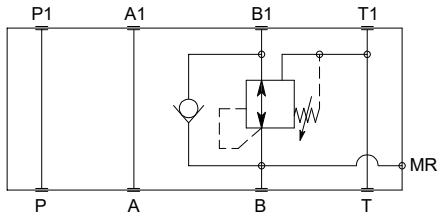
Lato O-ring / *O-ring side*



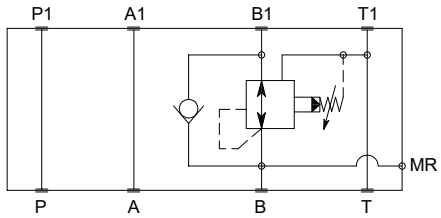
Lato O-ring / *O-ring side*



Lato O-ring / *O-ring side*



Lato O-ring / *O-ring side*



Lato O-ring / *O-ring side*

Codice di ordinazione - *Ordering code*

MRRP3 * * * * **

P = Riduttrice su P
P = Reducing on P
A = Riduttrice su A
A = Reducing on A
B = Riduttrice su B
B = Reducing on B

D = Azione Diretta
D = Direct acting
P = Azione Pilotata
P = Pilot operated

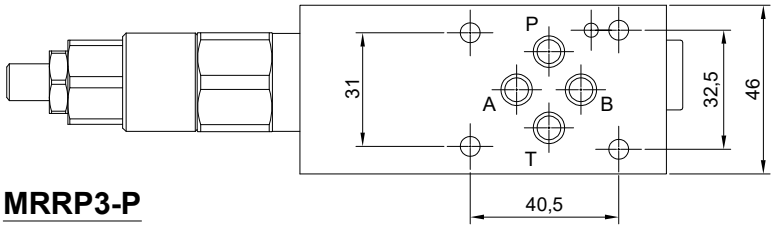
1-2-3 = Campo taratura (Pag. 2/2)
1-2-3 = Setting range (Pag. 2/2)

A = Collettore in Alluminio
A = Aluminum Manifold
S = Collettore in Ghisa fosfatata
S = Phosphated Cast-iron Manifold

0M marcatura standard
0M standard marking
XM marcatura personalizzata
XM customized marking

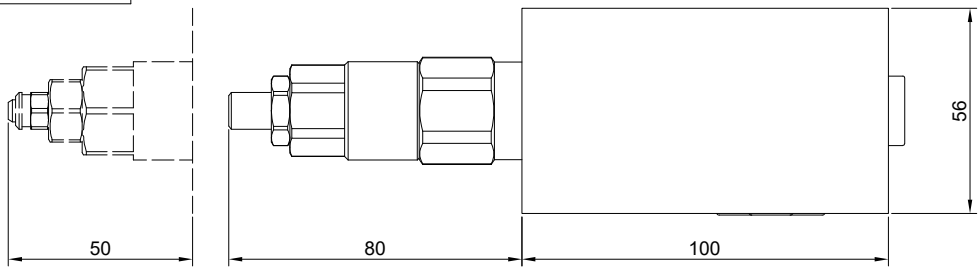
MRRP3 **

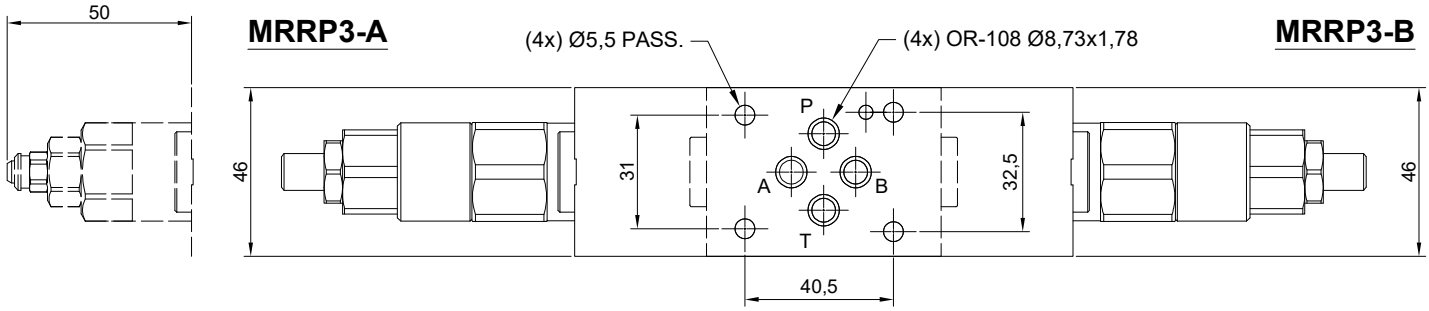
Campo di taratura (Pressione ridotta) Setting range (Reduced Pressure)		
Codice / *Code*	Mod. D Azione Diretta *Direct acting*	Mod. P Azione Pilotata *Pilot operated*
1	6 - 30 bar	8 - 30 bar
2	25 - 100 bar	20 - 100 bar
3	45 - 150 bar	50 - 200 bar

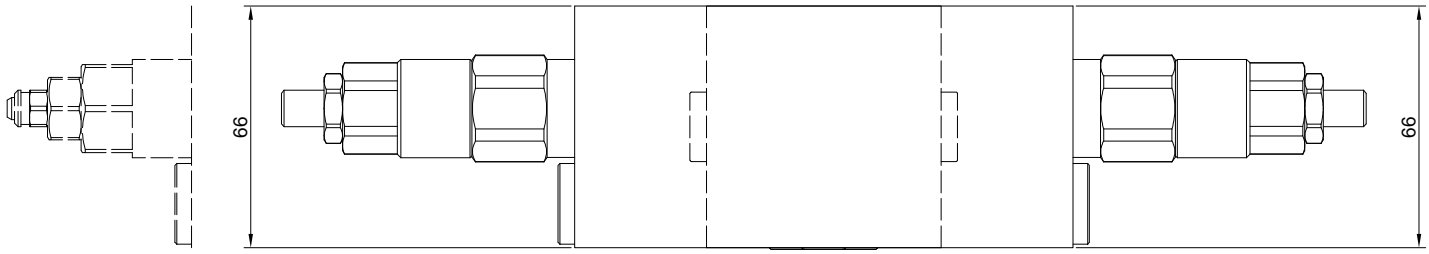


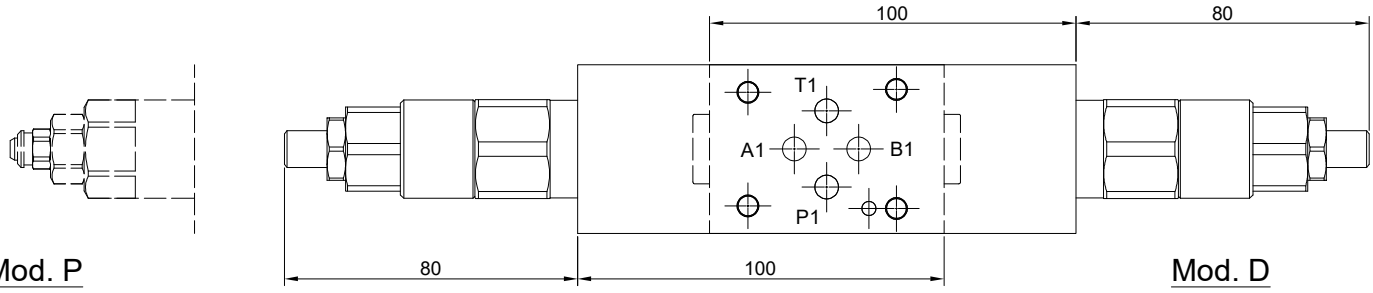
MRRP3-P

CETOP-03





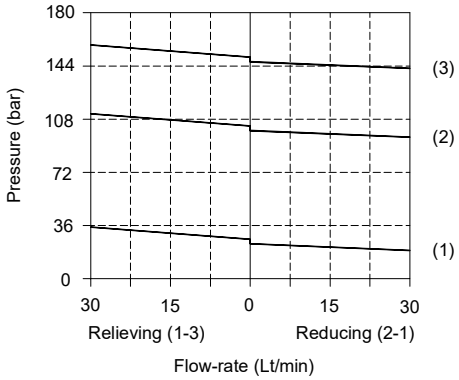


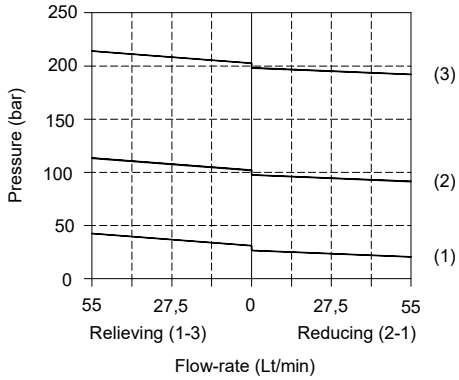


Mod. P

Mod. D

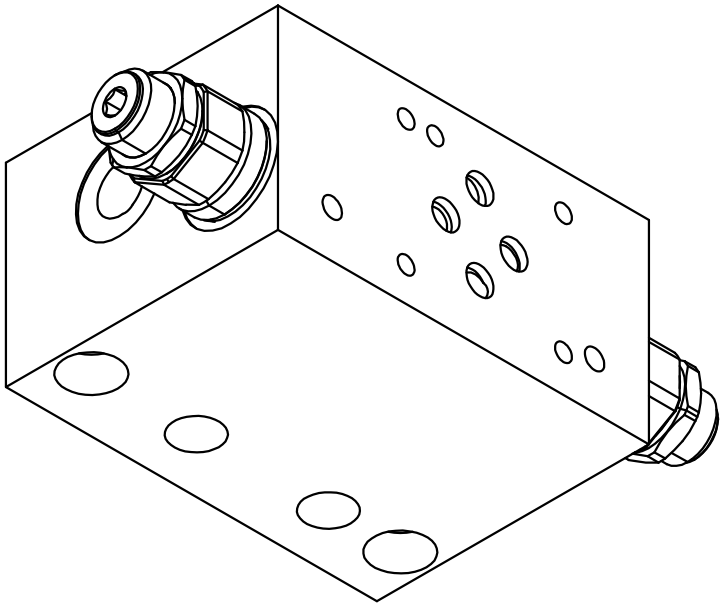
Mod. D





Mod. P

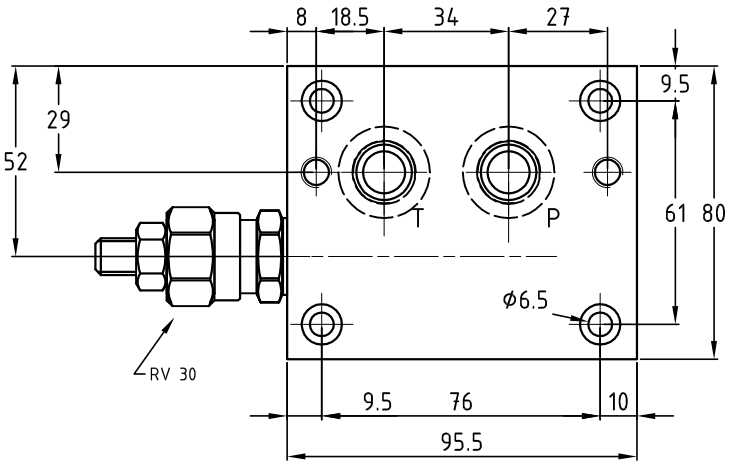
Piastre per minicentraline
Plates for mini power packs



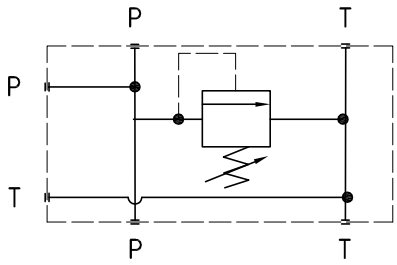
Sezione H
Section H

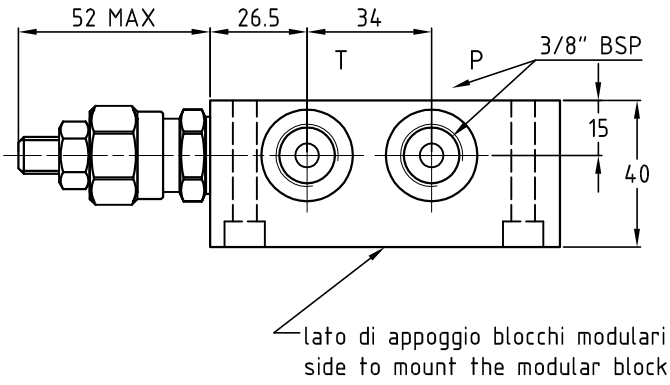
PB3MCOM2*

Piastra di base in all. con valvola di massima per montaggio PC3MCO**
Block base in aluminium with relief valv for assembling PC3MCO**



Hydraulic diagram





peso/weight 0.90 Kg

Esempio di ordinazione - Ordering code

PB3 MCO M2 *

Piastra base in all. Cetop 03
Base block in aluminiu Cetop 03

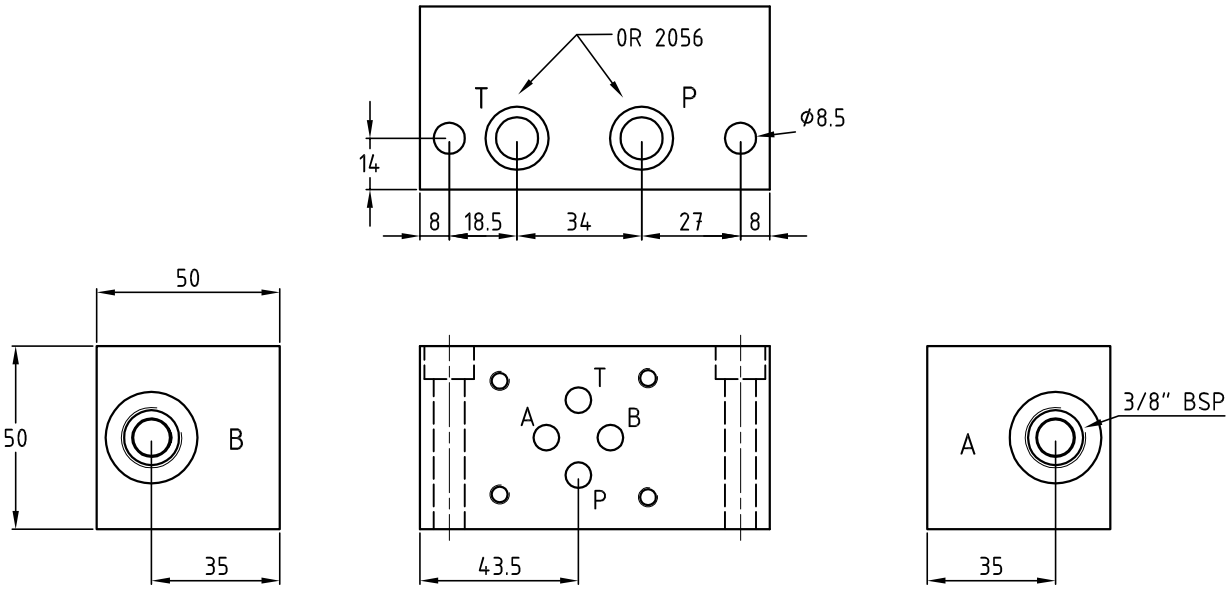
Per mini centraline
For mini powerpacks

Y=5÷55 bar A=25÷110 bar B=50÷250 bar
Q=30 lt/m

Con valvola di max RV 30 (pag. M02)
With relief valve RV 30 (page M02)

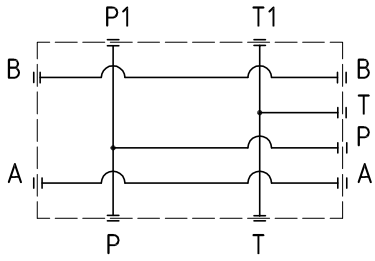
PC3MCO*

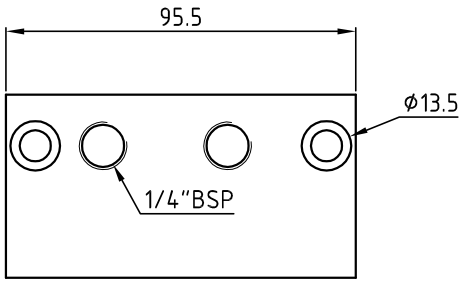
Piastra componibile in alluminio Cetop 03 per minicentraline
Packing plate in aluminium Cetop 03 for mini power packs



Hydraulic diagram

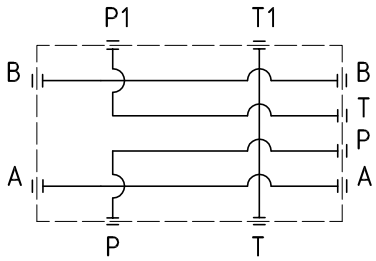
Coll. in parallelo - Parallel circuit





peso/weight 0.56 Kg

Coll. in serie - Series circuit



Esempio di ordinazione - Ordering code

PC3 MCO *

Piastra componibile Cetop 03 in alluminio
Packing plate Cetop 03 in aluminiu

Per mini centraline
For mini powerpacks

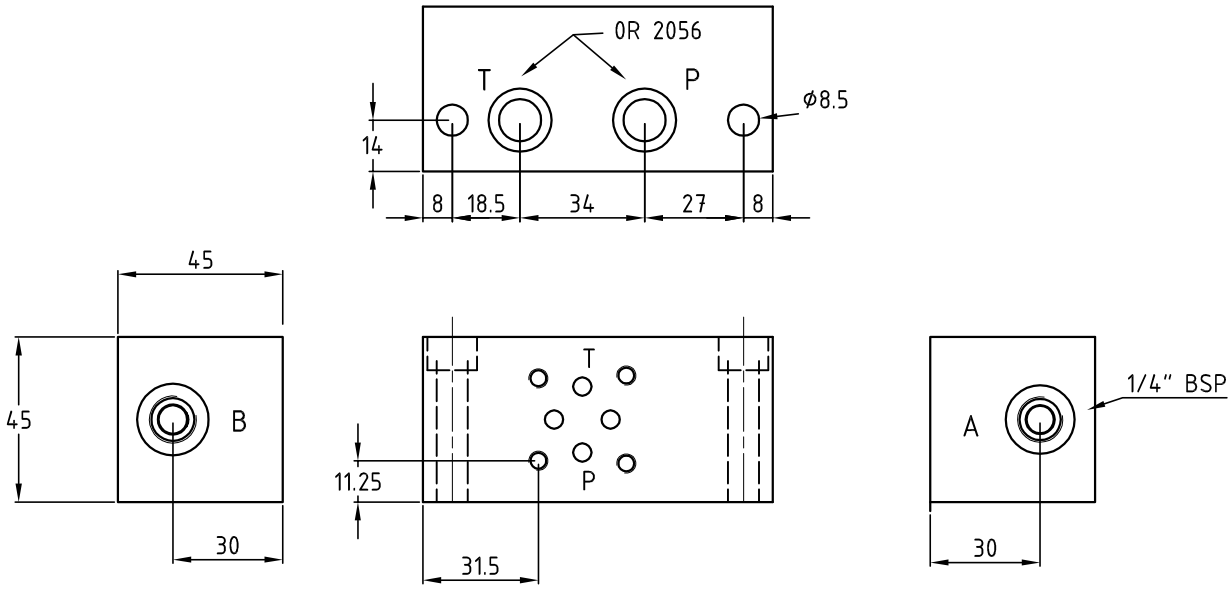
P = Collegamento in parallelo
P = Parallel connecting

S = Collegamento in serie
S = serie connecting

PC2MCO*

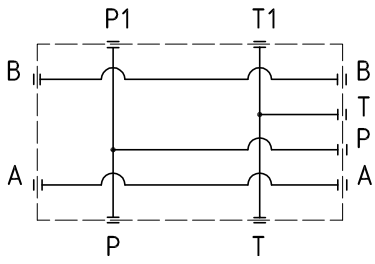
NEW

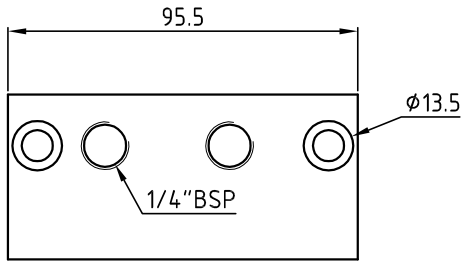
Piastra componibile in alluminio Cetop 02 per minicentraline
Packing plate in aluminium Cetop 02 for mini power packs



Hydraulic diagram

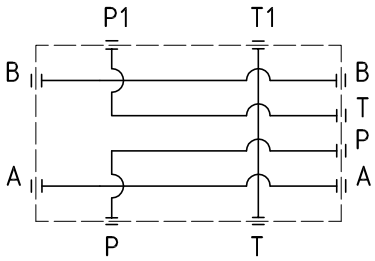
Coll. in parallelo - Parallel circuit





peso/weight 0.46 Kg

Coll. in serie - Series circuit



Esempio di ordinazione - Ordering code

PC2 MCO *

Piastra componibile Cetop 02 in alluminio
Packing plate Cetop 02 in aluminium

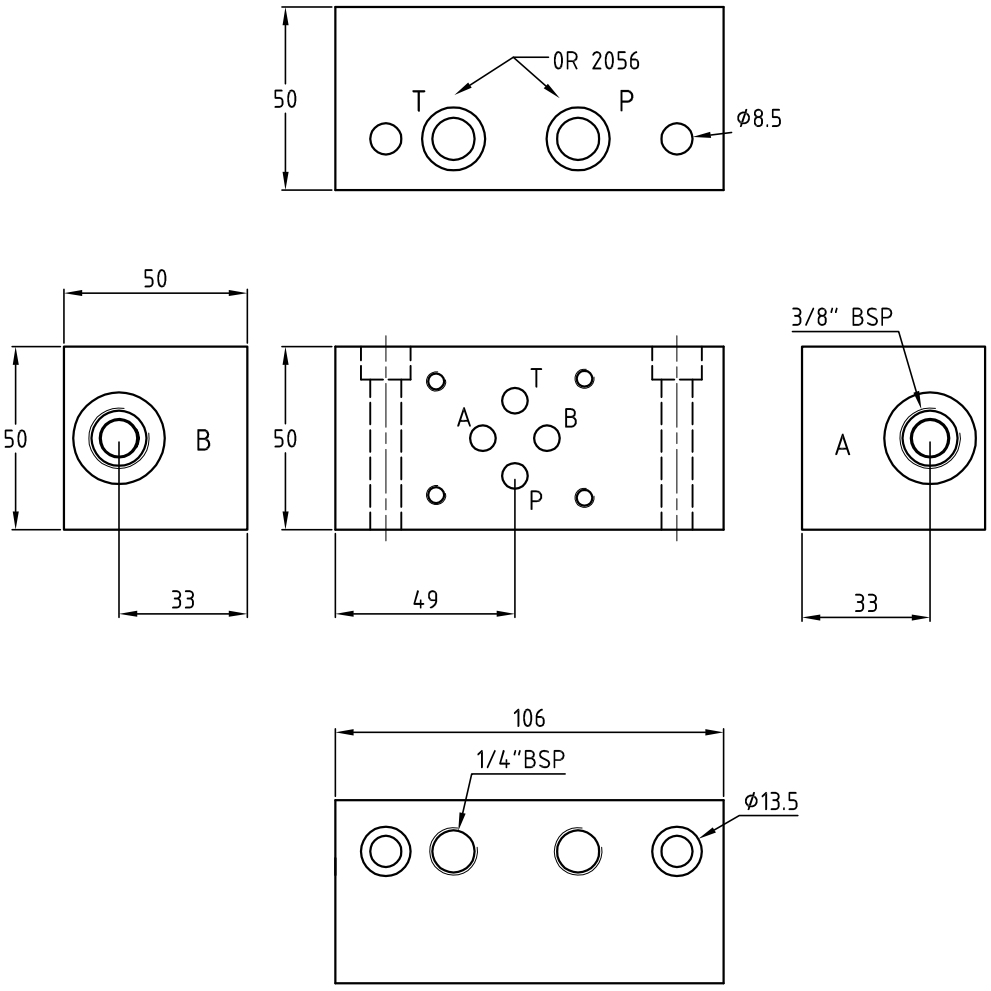
Per mini centraline
For mini powerpacks

P = Collegamento in parallelo
P = Parallel connecting

S = Collegamento in serie
S = serie connecting

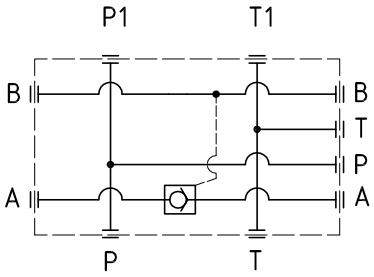
PC3MCOCV**

Piastra componibile in alluminio Cetop 03 con ritegno pilotato
Packing plate in aluminiu Cetop 03 with piloted check valve

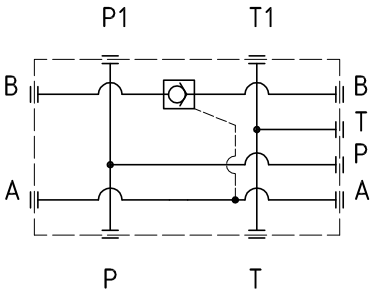


Hydraulic diagram

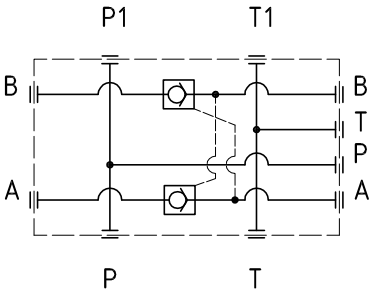
Version A



Version B



Version AB



Esempio di ordinazione - Ordering code

PC3 MCO CV **

Piastra componibile Cetop 03 in alluminio
Packing plate Cetop 03 in aluminum

Per mini centraline
For mini powerpacks

Con ritegno pilotato
With piloted check valve

AB = Ritegno su utilizzi A e B
AB = Check valve on A and B ports

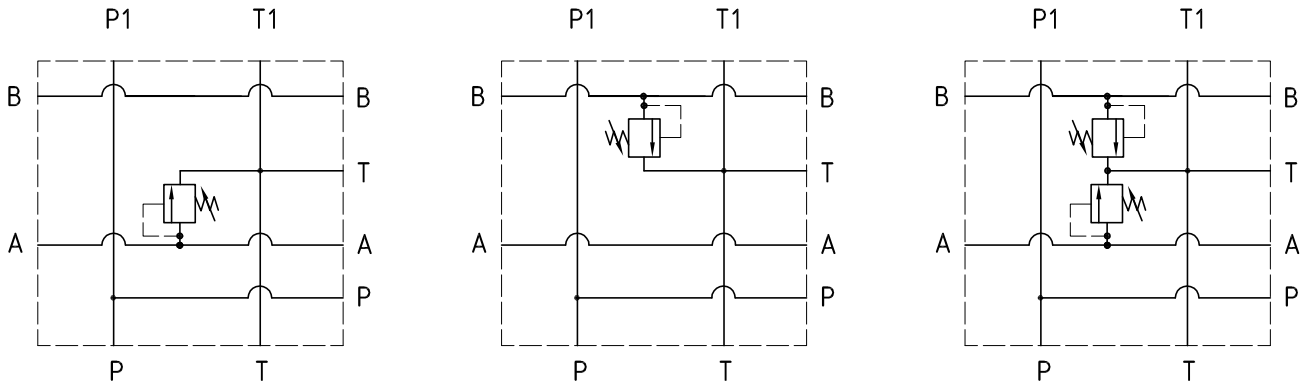
A = Ritegno su utilizzo A
A = Check valve on A port

B = Ritegno su utilizzo B
B = Check valve on B port

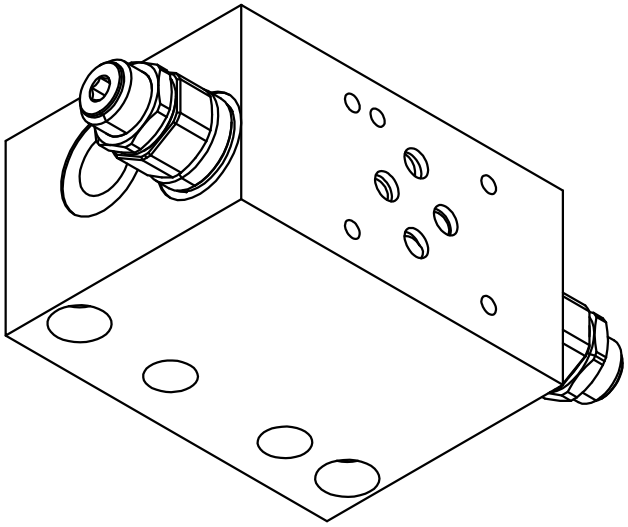
PC3MCORV**

Piastra componibile in alluminio Cetop 03 con valvola di massima
Packing plate in aluminium Cetop 03 with relief valve

Hydraulic diagram



Version A | Version B | Version AB



Esempio di ordinazione – Ordering code

PC3 MCO RV * *

Piastra componibile Cetop 03 in alluminio
Packing plate Cetop 03 in aluminium

Per mini centraline
For mini powerpacks

Con valvola di max
With relief valve

A = 10÷160 bar B = 140÷280 bar
Q MAX = 20 lt/m

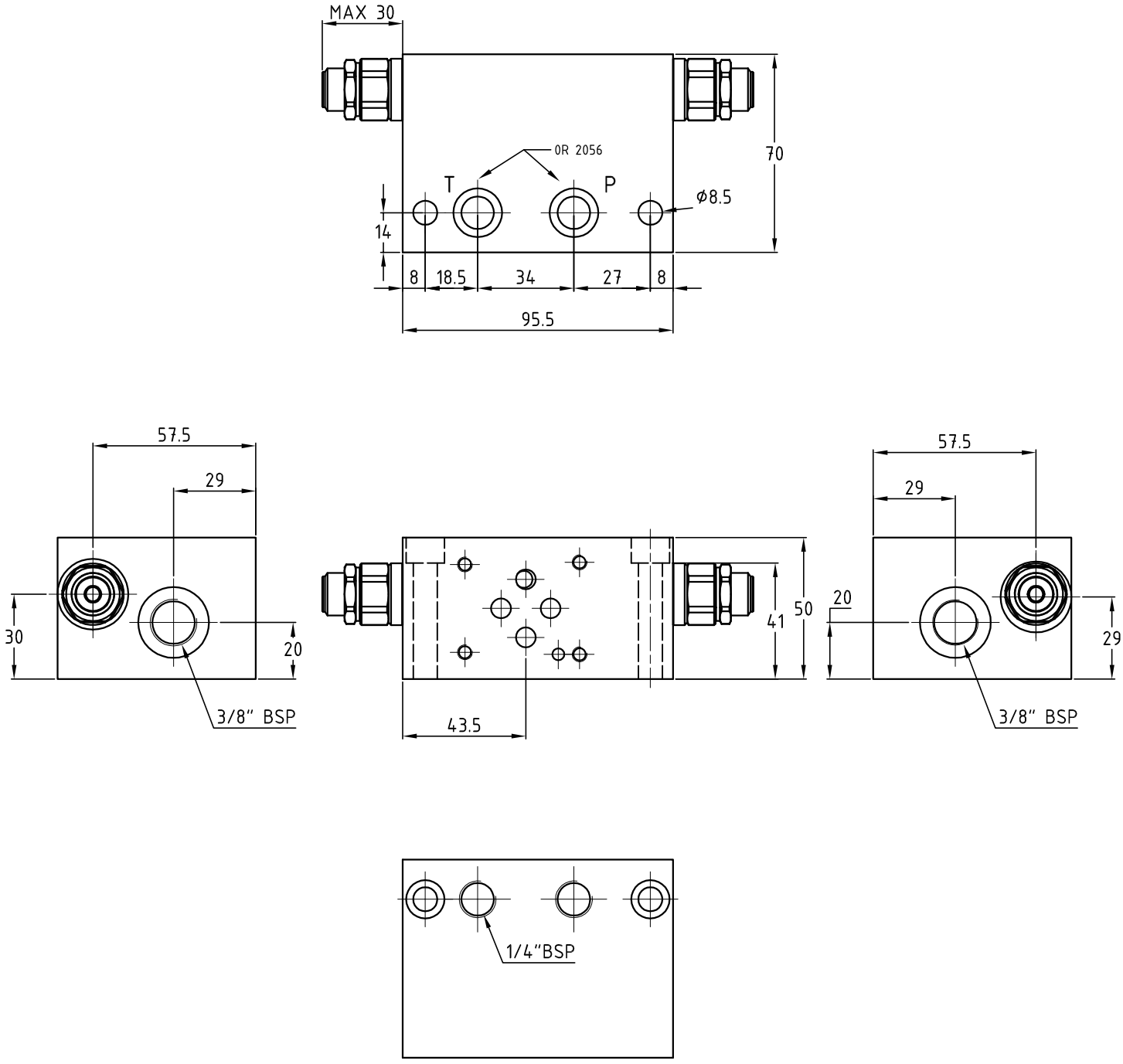
AB = Valvola di max. su utilizzi A e B
AB = Relief valve on A and B ports

A = Valvola di max. su utilizzo A
A = Relief valve on A port

B = Valvola di max. su utilizzo B
B = Relief valve on B port

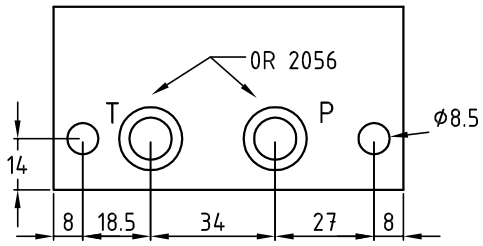
PC3MCORV**

Piastra componibile in alluminio Cetop 03 con valvola di massima
Packing plate in aluminium Cetop 03 with relief valve

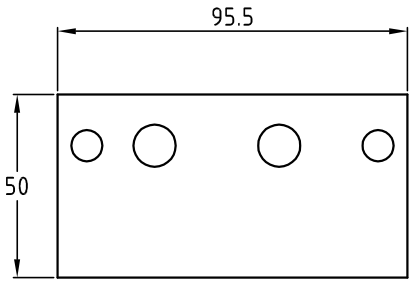


PC3MCOD**

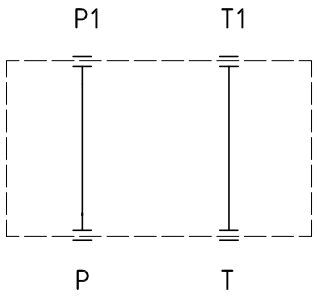
Distanziale in alluminio per minicentraline
Spacing element in aluminium for mini power packs







Hydraulic diagram



Esempio di ordinazione - Ordering code

PC3 MCO D **

Piastra componibile Cetop 03 in alluminio
Packing plate Cetop 03 in aluminium

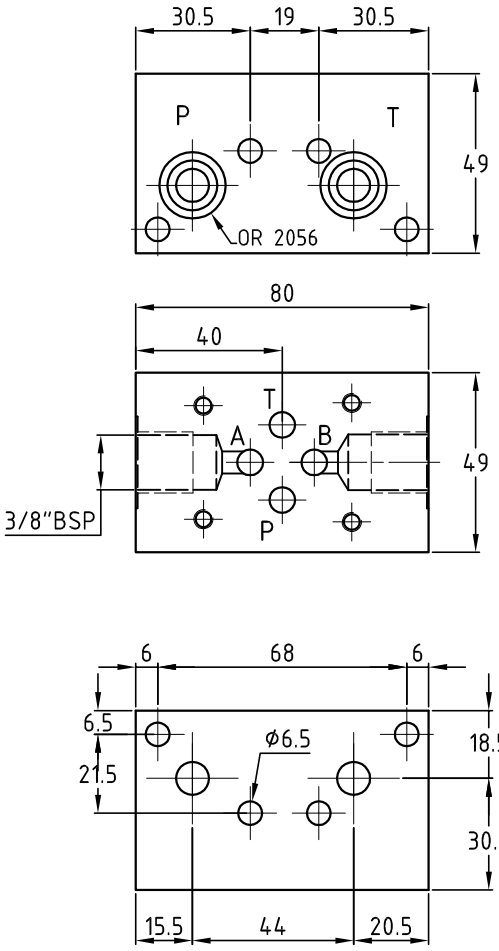
Per mini centraline
For mini powerpacks

18 H=18
39 H=39
69 H=69

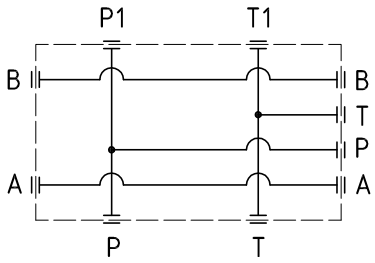
D = Distanziale
D = Spacing element

PC3MCH*

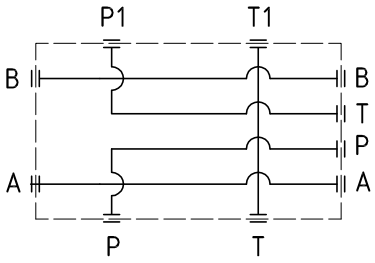
Piastra componibile Cetop 03 in alluminio per minicentraline
Packing plate Cetop 03 in aluminiu for mini power packs



Hydraulic diagram



Collegamento in parallelo
Parallel circuit



Collegamento in serie
Series circuit

peso/weight 0.55 Kg

Esempio di ordinazione - Ordering code

PC3 MCH *

Piastra componibile Cetop 03 in alluminio
Packing plate Cetop 03 in aluminium

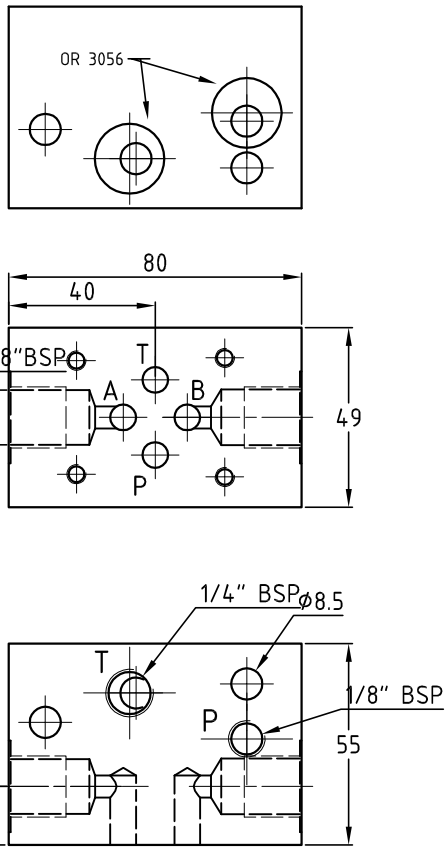
Per mini centraline
For mini powerpacks

P = Collegamento in parallelo
P = Parallel connecting

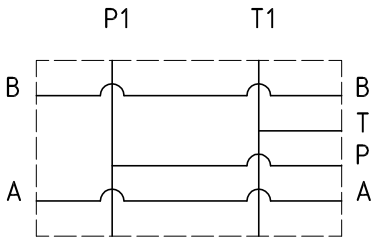
S = Collegamento in serie
S = Series connecting

PC3MCR*

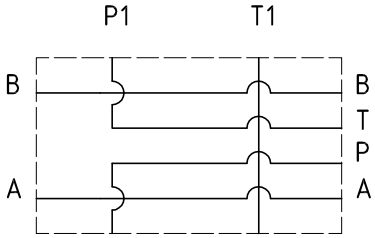
Piastra componibile Cetop 03 in alluminio per minicentraline
Packing plate Cetop 03 in aluminium for mini power packs



Hydraulic diagram



Collegamento in parallelo
Parallel circuit



Collegamento in serie
Series circuit

peso/weight 0.55 Kg

Esempio di ordinazione - ordering code

PC3 MCR *

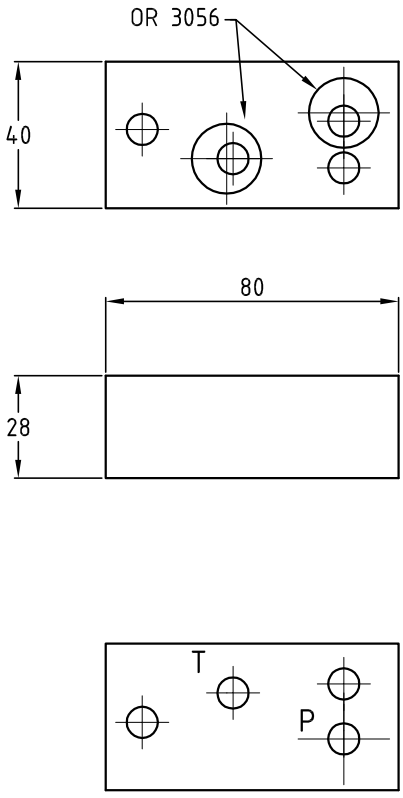
PC3 — Piastra componibile Cetop 03 in alluminio / Packing plate Cetop 03 in aluminium

MCR — Per mini centraline / For mini powerpacks

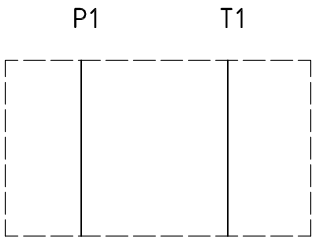
* — P = Collegamento in parallelo / P = Parallel connecting; S = Collegamento in serie / S = serie connecting

PC3MCRD28

Distanziale in alluminio per minicentraline
Spacing element in aluminium for mini power packs



Hydraulic diagram



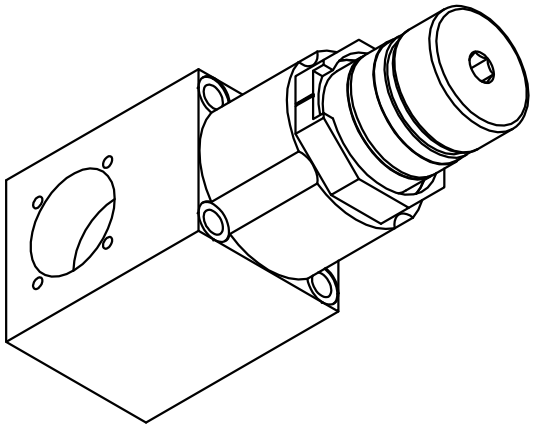
peso/weight 0.25 Kg

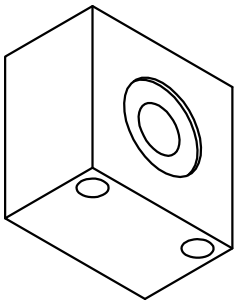
Esempio di ordinazione - Ordering code

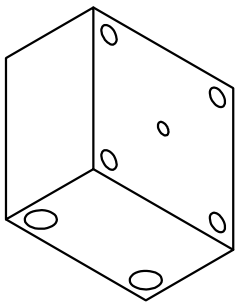
PC3 MCR D 28

- PC3: Piastra componibile Cetop 03 in alluminio / Packing plate Cetop 03 in aluminium
- MCR: Per mini centraline / For mini powerpacks
- D: D = distanziale / D = spacing element
- 28: 28 = 28 mm

Pressostati e adattatori
Pressure Switch and Adapter



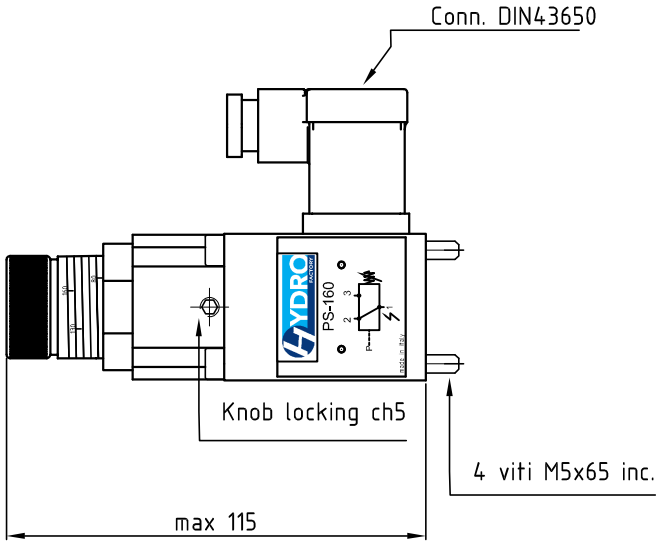


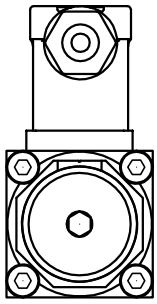


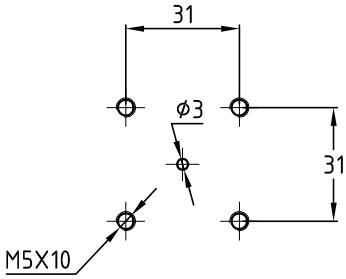
Sezione I
Section I

PS **

Pressostato a pistone con scala graduata
Piston pressure switch with graduated scale

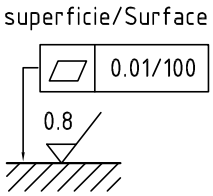






- Fluido da utilizzare: olio idraulico a norme DIN 51524 con viscosità compresa tra 30 e 100 mm²/s (cSt) a 40° C
- Filtrazione richiesta del fluido impiegato 25µ
- Temperatura fluido idraulico: da -30° a +110° C

- Fluid to be used: hydraulic oil to DIN 51524 standards with a viscosity between 30 and 100 mm²/s (cSt) to 40° C
- The fluid filtration requested is 25µ
- Temperature hydraulic fluid: -30° to +110° C



Esempio di ordinazione - Ordering code

PS ** *

Pressostato
Pressure switch

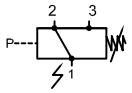
35 = da 07 a 38 bar / from 07 until 38 bar

160 = da 10 a 170 bar / from 10 until 170 bar

250 = da 15 a 260 bar / from 15 until 260 bar

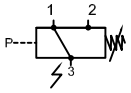
360 = da 25 a 360 bar / from 25 until 360 bar

Omettere se contatto E
Obmit if contact E



Cont. standard

A



Cont. A

PS **

Pressostato a pistone con scala graduata
Piston pressure switch with graduated scale

Caratteristiche tecniche:
- Corpo in alluminio realizzato con macchine cnc e anodizzato.
- Vite di regolazione in acciaio con nonio graduato ed esagono incassato ch 6.
- grano di bloccaggio taratura ch5 .
- Contatti elettrici Dorati
- Isteresi = +/- 4% valore impostato
- Peso 500 gr
- Completo di connettore DIN 43650

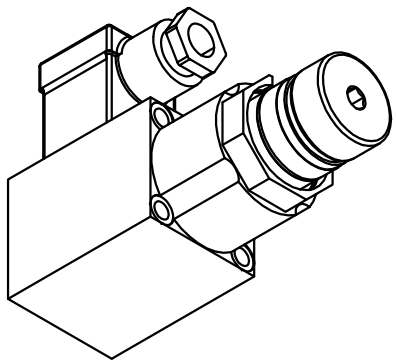
Technical Features:
- Aluminium body cnc machine maked with anodization.
- Screw regolation with graduate scale and exagon socket ch6.
- Knob Locking ch5.
- Gold plate on silver electric contacts
- hysteresis = +/- 4 % set point
- Weight 500 gr
- Complete of connector DIN 43650

Adattatori per montaggio pressostati, vedere Sez. I

Adapter for pressure switch see Sec. I

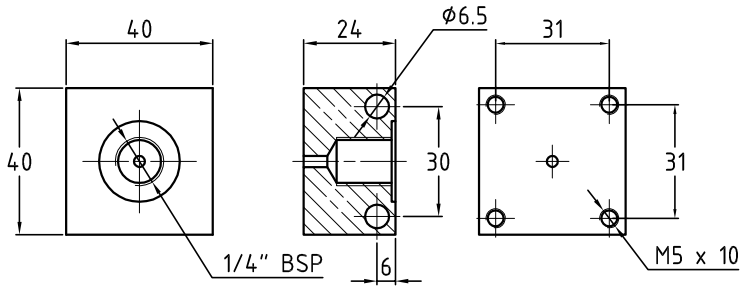
Caratteristiche elettriche/Electrical characteristics

Volt. (max)	Load	Load ind.
250 Vac	5 A	2 A
0-15 Vdc	5 A	3 A
15-30 Vdc	5 A	3 A



FF*14PS

Adattatore femmina per pressostato
Female adapter for pressure switch



Esempio di ordinazione - Ordering code

FF * 14 PS

Adattatore femmina
Female adaptor

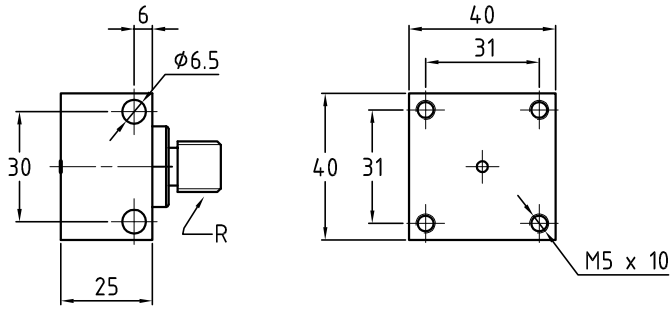
A = versione in Alluminio (omettere se gg25)
A = Aluminium version (obmit if gg25)

1/4" BSP

PS = Pressostato
PS = Pressure switch

MF*14PS

Adattatore maschio per pressostato
Male adapter for pressure switch



MF * 14 PS

Adattatore maschio
Male adaptor

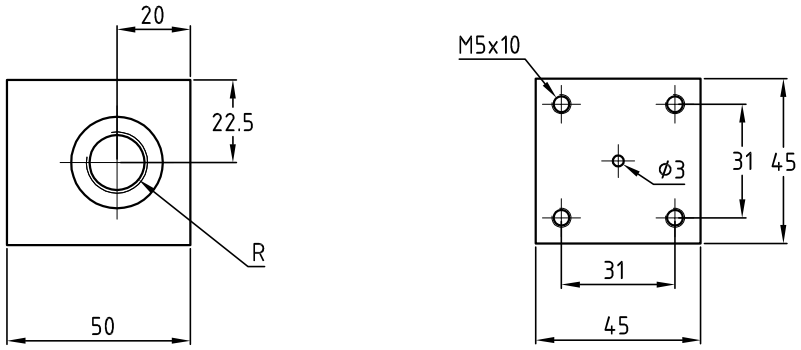
A = versione in Alluminio (omettere se gg25)
A = Aluminium version (obmit if gg25)

1/4" BSP

PS = Pressostato
PS = Pressure switch

INL**PS

Adattatore in linea per pressostato
In line adapter for pressure switch



Esempio di ordinazione - Ordering code

INL 14 PS

Adattatore in linea in ghisa/acciaio
In line adaptor in cast iron/steel

14 = 1/4" BSP

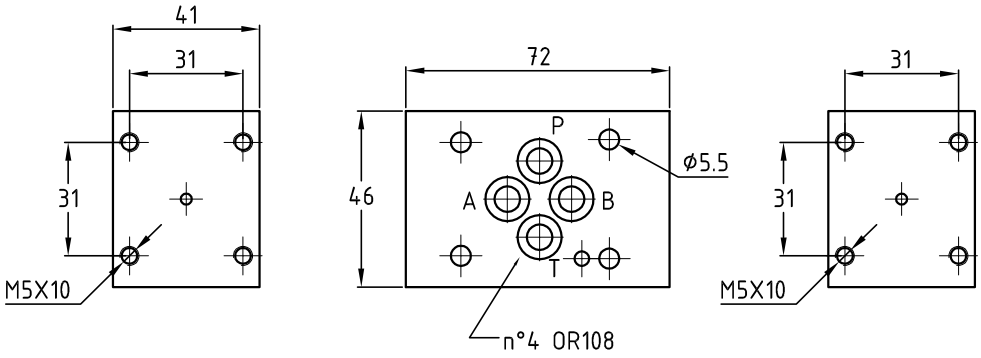
38 = 38" BSP

12 = 1/2" BSP

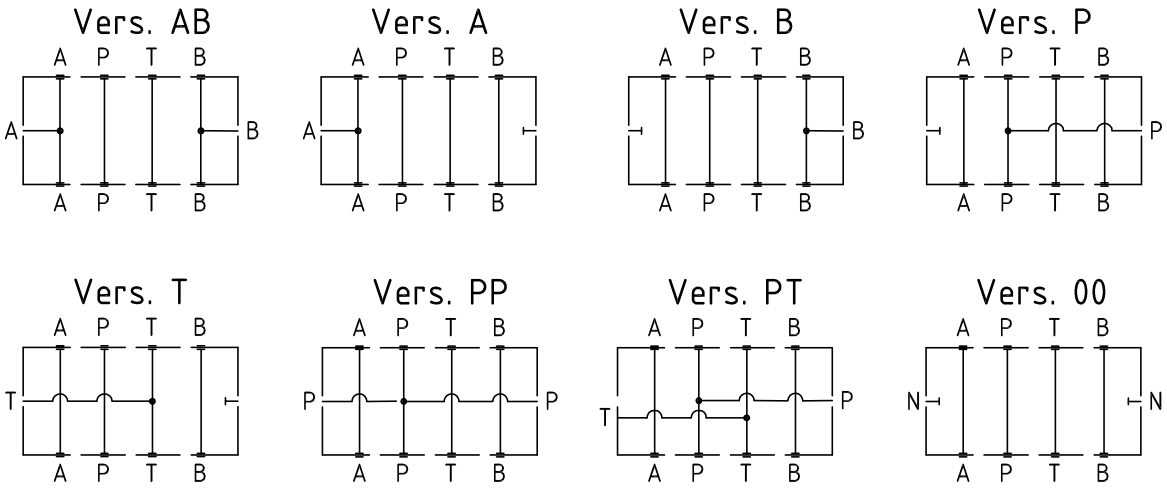
PS = Pressostato
PS = Pressure switch

AM3PS/**

Adattatore Cetop 03 per pressostato
Intermediate adapter Cetop 03 for pressure switch



Hydraulic diagram



Esempio di ordinazione - Ordering code

AM3 PS / **

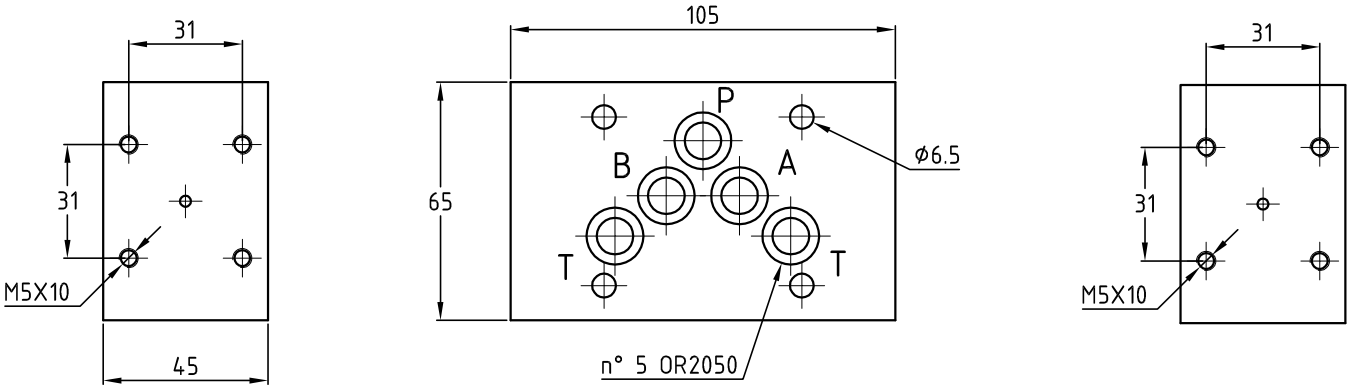
Adattatore Cetop 03 in ghisa/acciaio
Intermediate adapter Cetop 03 in cast iron/steel

PS = pressostato
PS = pressure switch

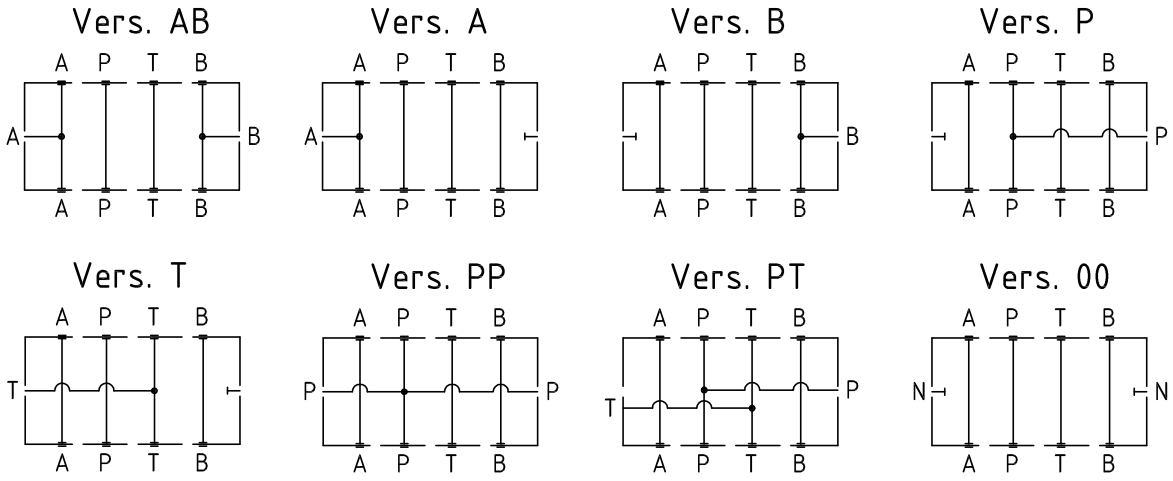
AB = versione AB
AB = AB version
A = versione A
A = A version
B = versione B
B = B version
P = versione P
P = P version
T = versione T
T = T version
PP = versione PP
PP = PP version
PT = versione PT
PT = PT version
00 = versione 00
00 = 00 version

AM5PS/**

Adattatore Cetop 05 per pressostato
Intermediate adaptor Cetop 05 for pressure switch



Hydraulic diagram



Esempio di ordinazione - Ordering code

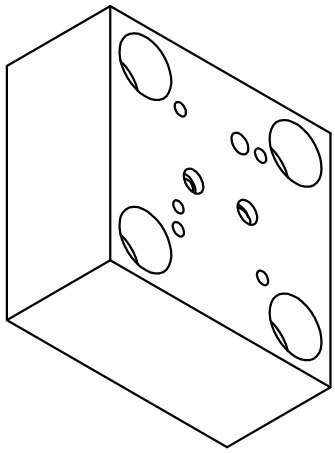
AM5 PS / **

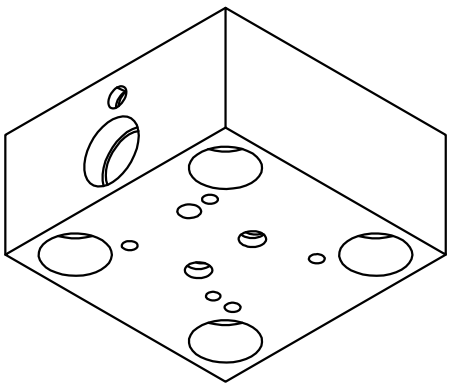
Adattatore Cetop 05 in ghisa/steel
Intermediate adaptor Cetop 05 in cast iron/steel

PS = pressostato
PS = pressure switch

AB = Versione AB
AB = Version AB
A = Versione A
A = Version A
B = Versione B
B = Version B
P = Versione P
P = Version P
T = Versione T
T = Version T
PP = Versione PP
PP = Version PP
PT = Versione PT
PT = Version PT
00 = Versione 00
00 = Version 00

Cappellotti di chiusura DIN24342
Closing elements DIN 24342

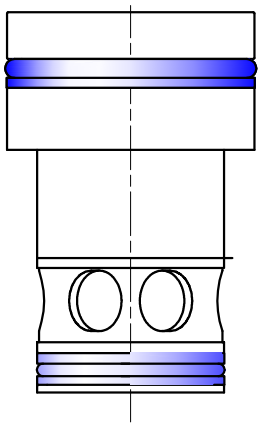


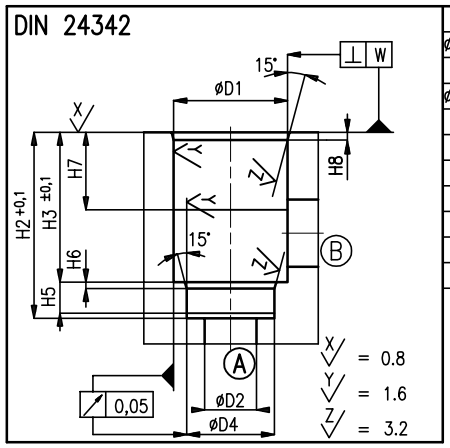


Sezione L
Section L

EL **

Elemento logico DIN 24342
Logical element DIN 24342

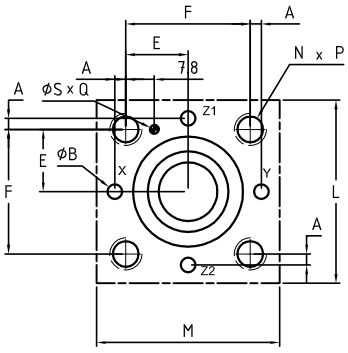




SIZE	NG16	NG25	NG32
øD1H7	32	45	60
øD2	16	25	32
øD4H7	25	34	45
H2	56	72	85
H3	43	58	70
H5	11	12	13
H6	2	2,5	2,5
H7	20	30	30
H8	2	2,5	2,5
W	0,05	0,05	0,1

- Fluido da utilizzare: olio idraulico a norme DIN 51524 con viscosità compresa tra 30 e 100 mm²/s (cSt) a 40° C
- Filtrazione richiesta del fluido impiegato 25 µ
- Temperatura fluido idraulico: da -25° a +80° C

- Fluid to be used: hydraulic oil to DIN 51524 standards with a viscosity between 30 and 100 mm²/s (cSt) to 40° C
- The fluid filtration requested is 25 µ
- Temperature hydraulic fluid: -25° to +80° C



SIZE	NG16	NG25	NG32
M	80	85	85
L	65	85	85
A	2	4	6
E	23	29	35
F	46	58	70
S	4	6	6
Q	7	8	8
N	M8	M12	M16
P	22	30	38
B	4	6	8

Esempio di ordinazione - ordering code

EL ** * **

Elemento Logico
Logical Element

16 = Grandezza DN 16
16 = Size DN 16

25 = Grandezza DN 25
25 = Size DN 25

32 = Grandezza DN 32
32 = Size DN 32

rapporto di pilotaggio
area ratio

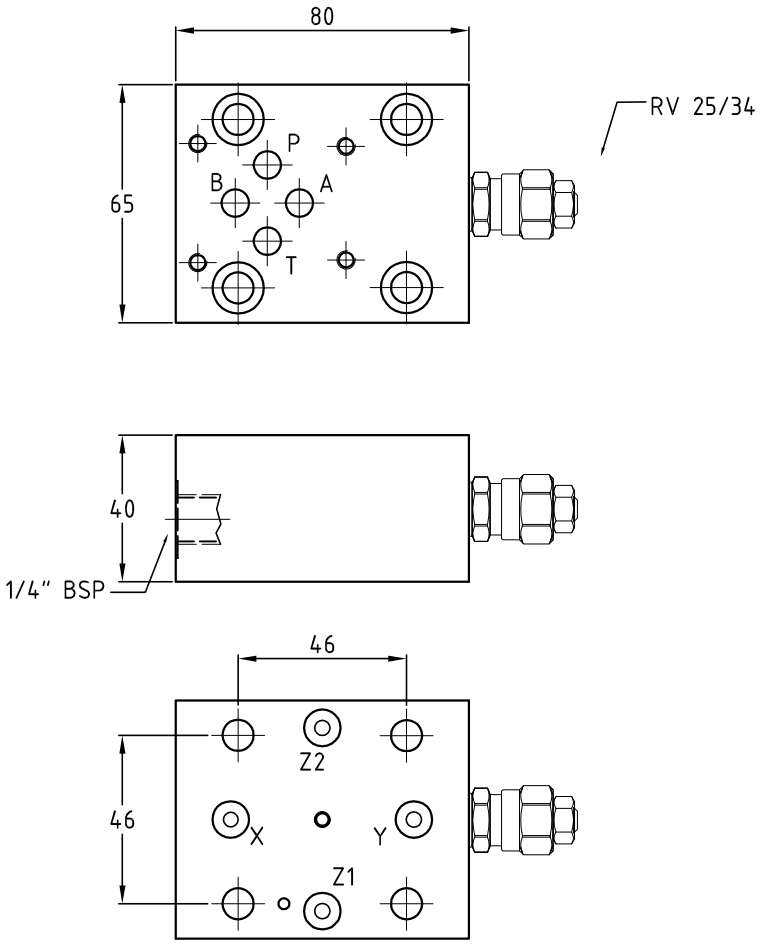
A = 1 : 1
B = 1 : 1 .1
C = 1 : 2
D = 1 : 2 Smorzamento / with damping

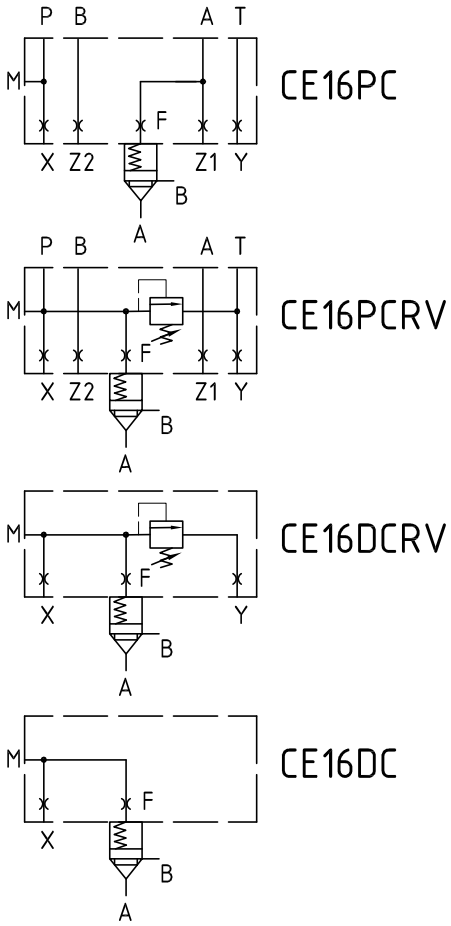
pressione apertura
Spring cracking pressure

05 = 0,5 bar
12 = 1,2 bar
30 = 3,0 bar
40 = 4,0 bar
60 = 6,0 bar

CE16**

Elemento di chiusura in ghisa/acciaio a norme DIN 24342
Closing element in cast iron/steel DIN 24342





Esempio di ordinazione - Ordering code

CE 16 ** *

Elemento di chiusura in ghisa/acciaio
Closing element in cast iron/steel

16 = grandezza DN16
16 = size DN16

DC = elemento di chiusura
DC = closing element

DCRV = elemento di chiusura con valv. di max. RV30
DCRV = closing element with relief valve RV30

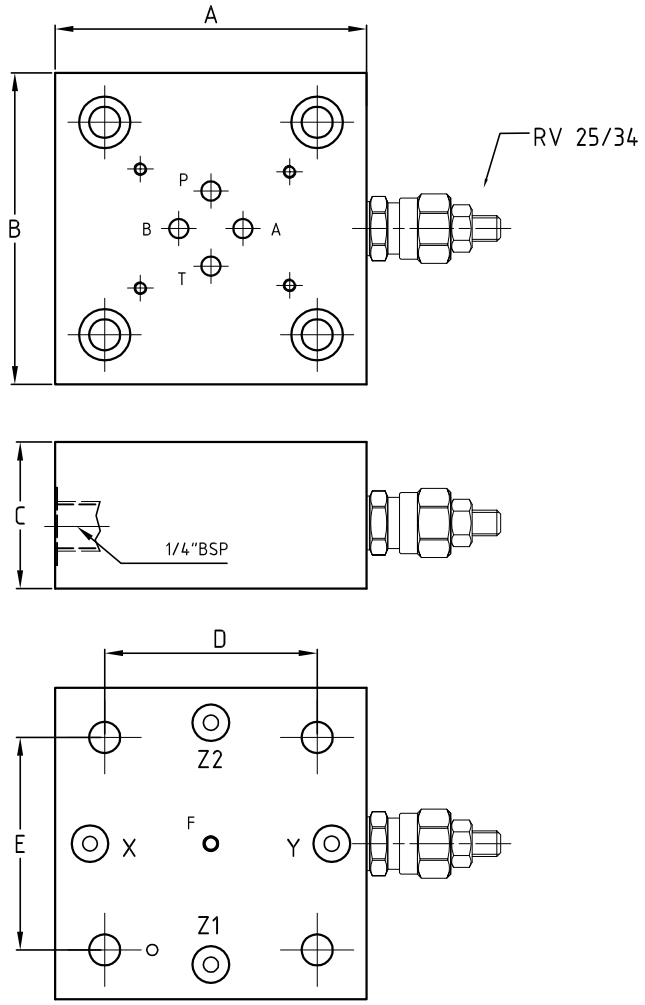
PC = elemento di chiusura con pred. per pilotaggio
PC = closing element arranged for pilot

PCRV = elem. chiusura con pred. pilot. e val. di max. RV30
PCRV = closing el. arranged for pilot and relief valve RV30

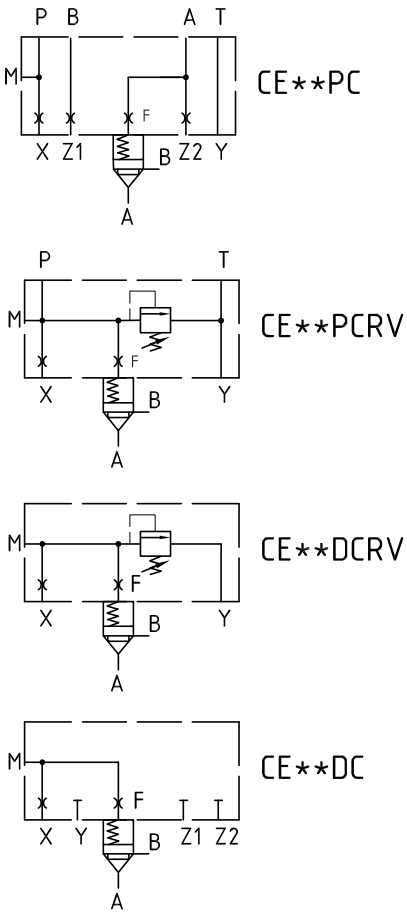
A=30÷100 bar B=50÷210 bar C=100÷350 bar
Solo nella versione RV - Only in RV version

CE**

Elemento di chiusura in ghisa/acciaio a norme DIN 24342
Closing element in cast rion/steel DIN 24342



Hydraulic diagram



Dimension table

DN size.	A	B	C	D	E
25	85	85	40	58	58
32	100	100	50	70	70

Esempio di ordinazione – Ordering code

CE ** ** **

Elemento di chiusura in ghisa/acciaio
Closing element in cast iron/steel

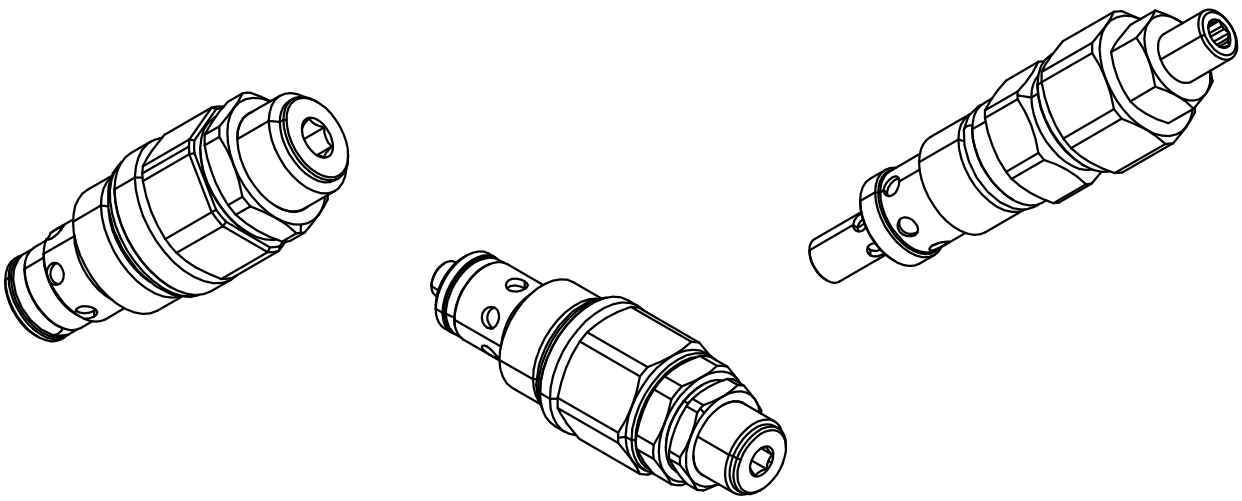
25 = grandezza DN25
25 = size DN25

32 = grandezza DN32
32 = size DN32

DC = elemento di chiusura
DC = closing element
DCRV = elemento di chiusura con valv. di max.
DCRV = closing element with relief valve
PC = elemento di chiusura con pred. per pilotaggio
PC = closing element arranged for pilot
PCRV = elem. di chiusura con pred. per pilot. e val. di max.
PCRV = closing element arranged for pilot and relief valve

Solo per versione RV – Only for RV version
Y=5÷55 bar A=25÷110 bar B=50÷250 bar
C=100÷350 bar D=100÷420

Cartucce varie
Cartridge



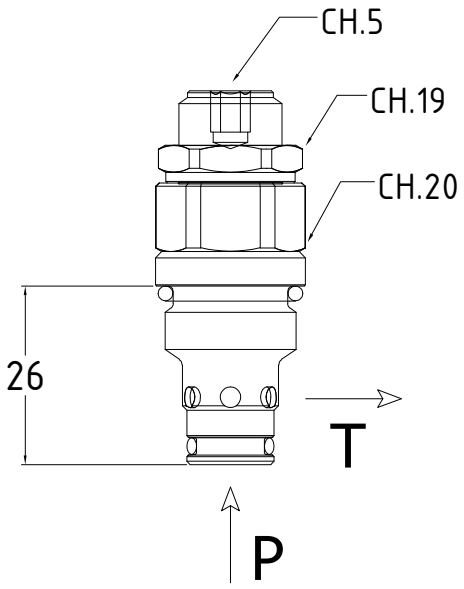
Sezione M
Section M

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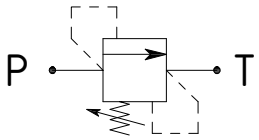
RV 25 34 *

Valvola di massima pressione a cartuccia, ad azione diretta, SAE08-2

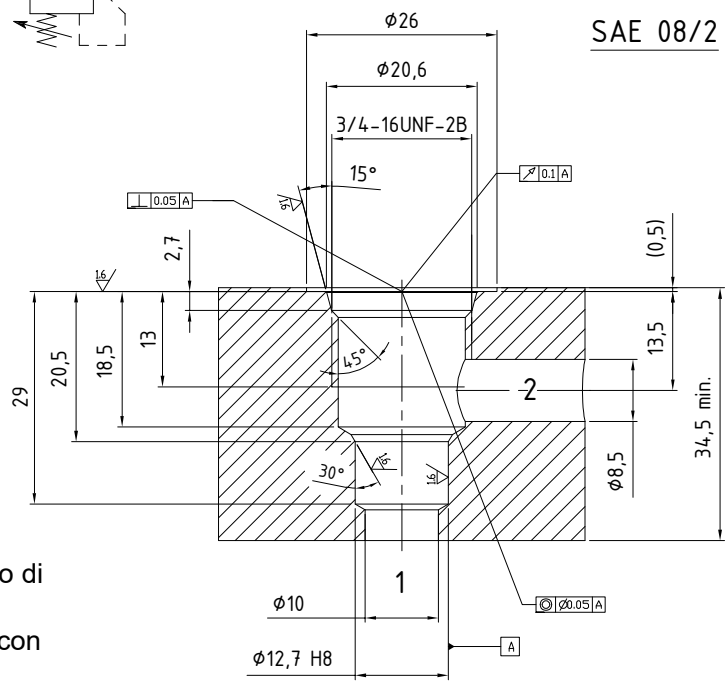
Cartridge style Pressure relief valve, direct acting, SAE08-2



Hydraulic diagram

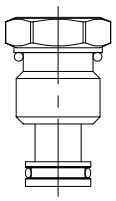


Cavità
Cavity



- Pressione max 420 bar
- Portata max 25 Lt/min
- La taratura della pressione si ottiene allentando il dado di bloccaggio ch.19 e ruotando la vite della cartuccia ch.5.
- Fluido da utilizzare: olio idraulico a norme DIN 51524 con viscosità compresa tra 30 e 100 mm²/s (cSt) a 40° C
- Filtrazione richiesta del fluido impiegato 25µ
- Temperatura fluido idraulico: da -20° a +75° C

- Max pressure 420 bar
- Max flow-rate 25 Lt/min
- Calibration pressure is obtained by loosening the lock nut ch.19 and turning the cartridge screw ch.5.
- Fluid to be used: hydraulic oil to DIN 51524 standards with a viscosity between 30 and 100 mm²/s (cSt) to 40° C
- The fluid filtration requested is 25µ
- Temperature hydraulic fluid: -20° to +75° C



Tappo chiusura Cavità
Cavity close plug

TRV34

Codice di ordinazione - *Ordering code*

RV 25 34 *

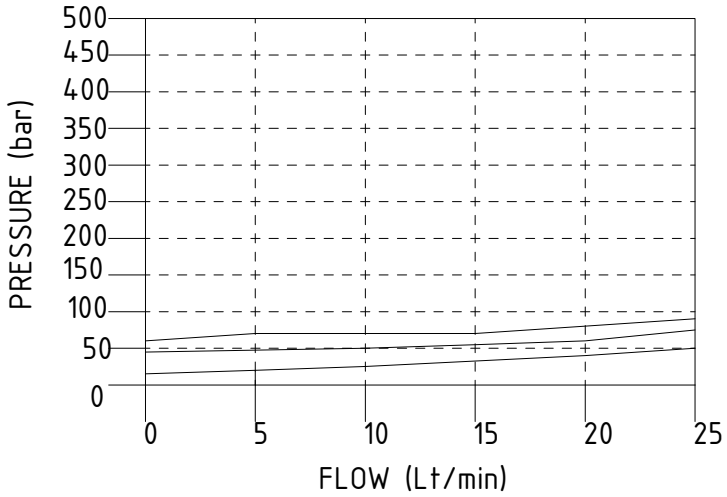
- RV — Valvola di massima pressione / Pressure relief valve
- 25 — 25 Lt/min
- 34 — 3/4-16 UNF SAE 08/2
- * — TABELLA PRESSIONI TARATURA / *SETTING PRESSURE TABLE*

	Setting range
RV25/34	Y = 20 ÷ 70 bar
	A = 10 ÷ 160 bar
	B = 100 ÷ 290 bar
	C = 130 ÷ 350 bar

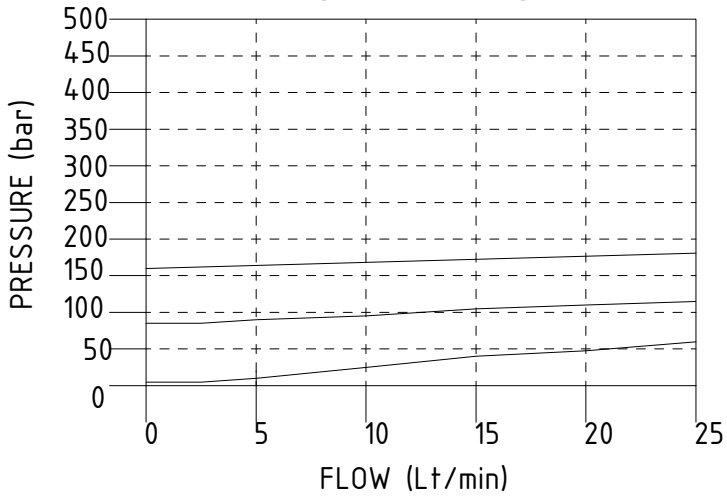
RV 25 34 *

DIAGRAMMI DI FLUSSO
PERFORMANCE DIAGRAMS

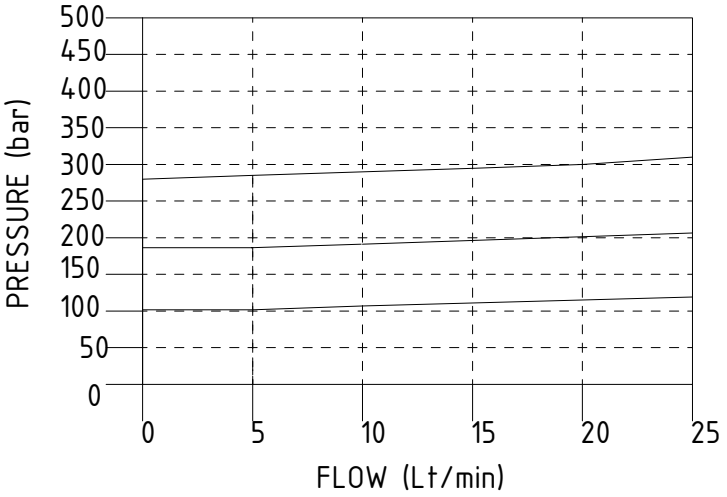
Y (20 - 70 bar)



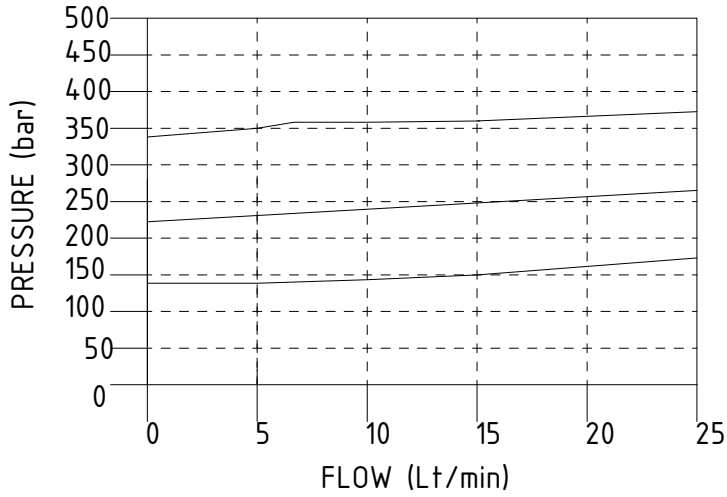
A (10 - 160 bar)



B (100 - 290 bar)



C (130 - 350 bar)



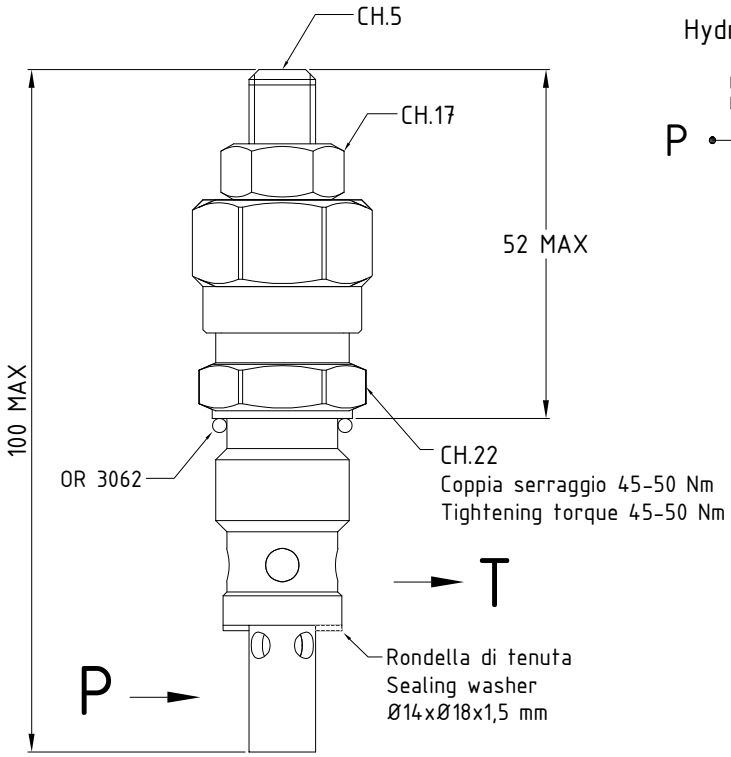
Rappresentate le curve : Max taratura / Media taratura / Min taratura
Curves recorded : Max setting / Medium setting / Min setting

Curve acquisite con Olio minerale 46 cSt @ 40 °C
Curves recorded with Mineral Oil 46 cSt @ 40 °C

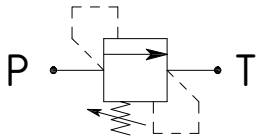
RV 30 *

Valvola di massima pressione a cartuccia, ad azione diretta

Cartridge style Pressure relief valve, direct acting

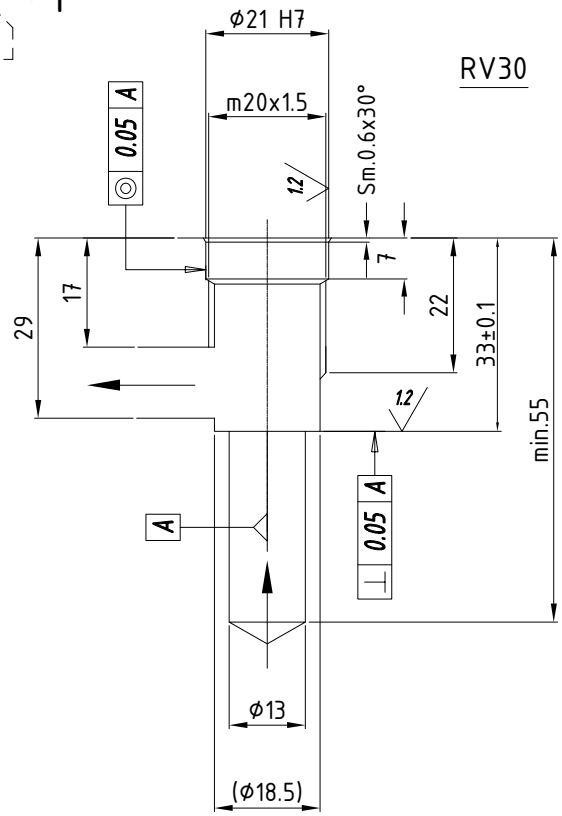


Hydraulic diagram



Cavità

Cavity



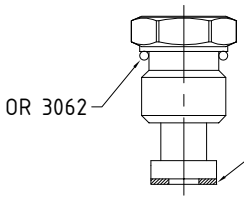
- Pressione max 420 bar
- Portata max 30 Lt/min
- La taratura della pressione si ottiene allentando il dado di bloccaggio ch.17 e ruotando la vite della cartuccia ch.5.
- Fluido da utilizzare: olio idraulico a norme DIN 51524 con viscosità compresa tra 30 e 100 mm²/s (cSt) a 40° C
- Filtrazione richiesta del fluido impiegato 25µ
- Temperatura fluido idraulico: da -20° a +75° C

- Max pressure 420 bar
- Max flow-rate 30 Lt/min
- Calibration pressure is obtained by loosening the lock nut ch.17 and turning the cartridge screw ch.5.
- Fluid to be used: hydraulic oil to DIN 51524 standards with a viscosity between 30 and 100 mm²/s (cSt) to 40° C
- The fluid filtration requested is 25µ
- Temperature hydraulic fluid: -20° to +75° C

Tappo chiusura Cavità

Cavity close plug

TRV-30



Codice di ordinazione - *Ordering code*

RV 30 *

RV — Valvola di massima pressione / Pressure relief valve

30 — 30 Lt/min

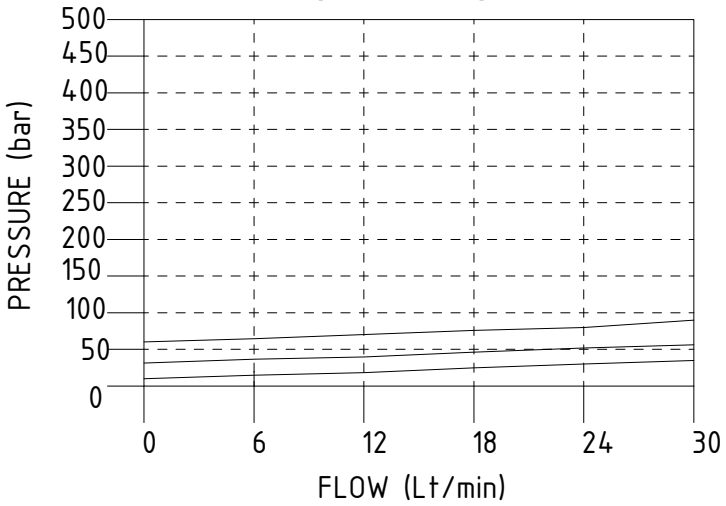
* — TABELLA PRESSIONI TARATURA / *SETTING PRESSURE TABLE*

	Setting range
RV 30	Y = 5 ÷ 55 bar
	A = 25 ÷ 110 bar
	B = 50 ÷ 215 bar
	C = 100 ÷ 350 bar
	D = 100 ÷ 420 bar

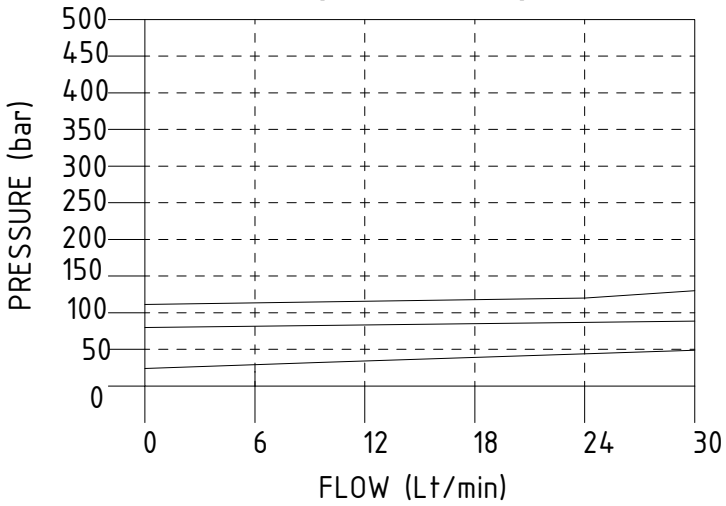
RV 30 *

DIAGRAMMI DI FLUSSO
PERFORMANCE DIAGRAMS

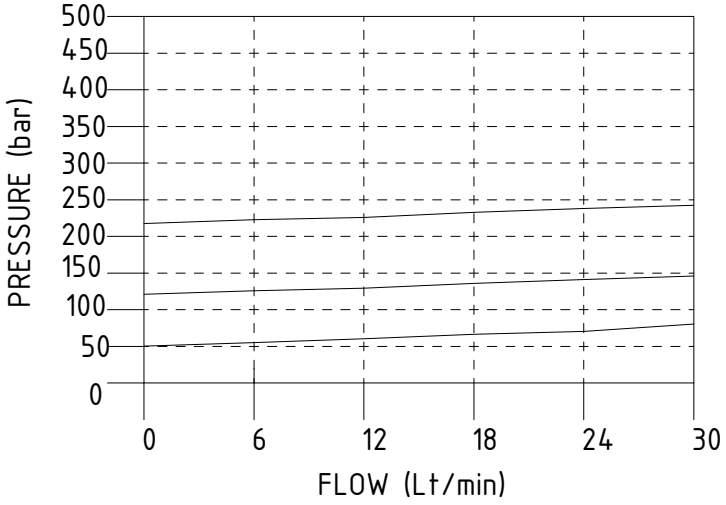
Y (5 - 55 bar)



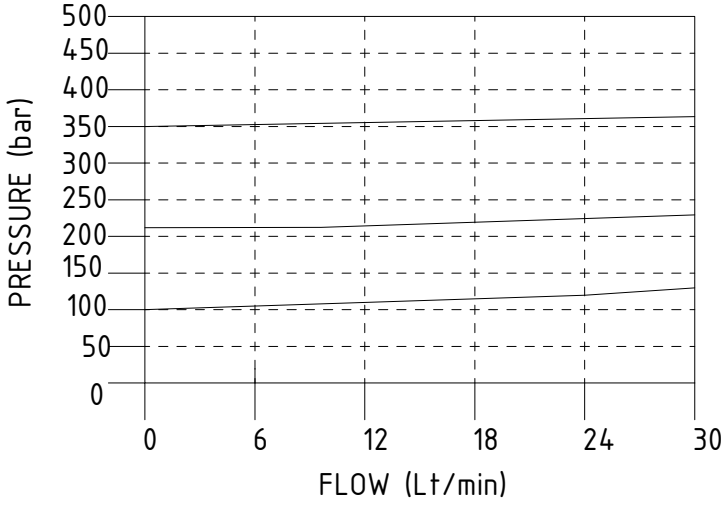
A (25 - 110 bar)



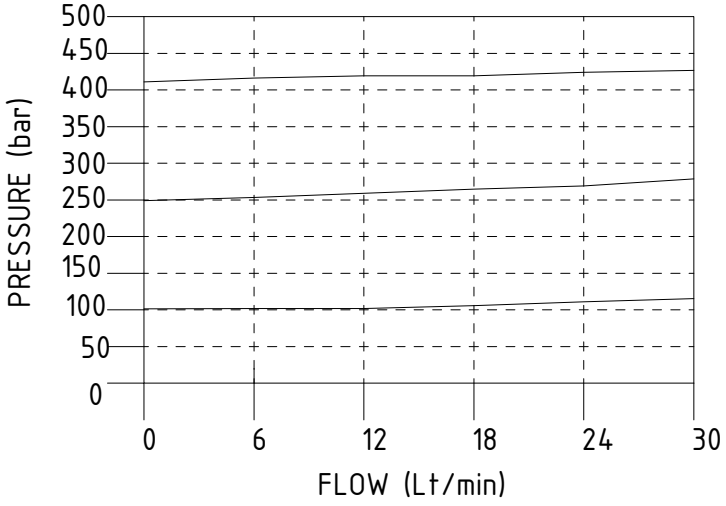
B (50 - 215 bar)



C (100 - 350 bar)



D (100 - 420 bar)



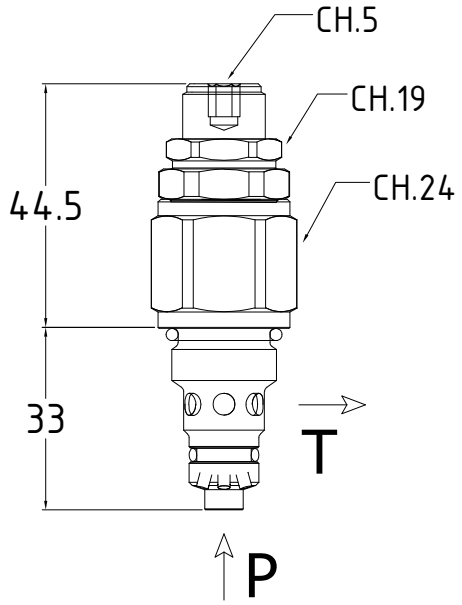
Curve rappresentate :
Max taratura / Media taratura / Min taratura
Curves recorded :
Max setting / Medium setting / Min setting

Curve acquisite con Olio minerale 46 cSt @ 40 °C
Curves recorded with Mineral Oil 46 cSt @ 40 °C

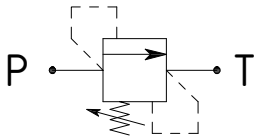
RV 30 34 *

Valvola di massima pressione a cartuccia, ad azione diretta, SAE08-2

Cartridge style Pressure relief valve, direct acting, SAE08-2

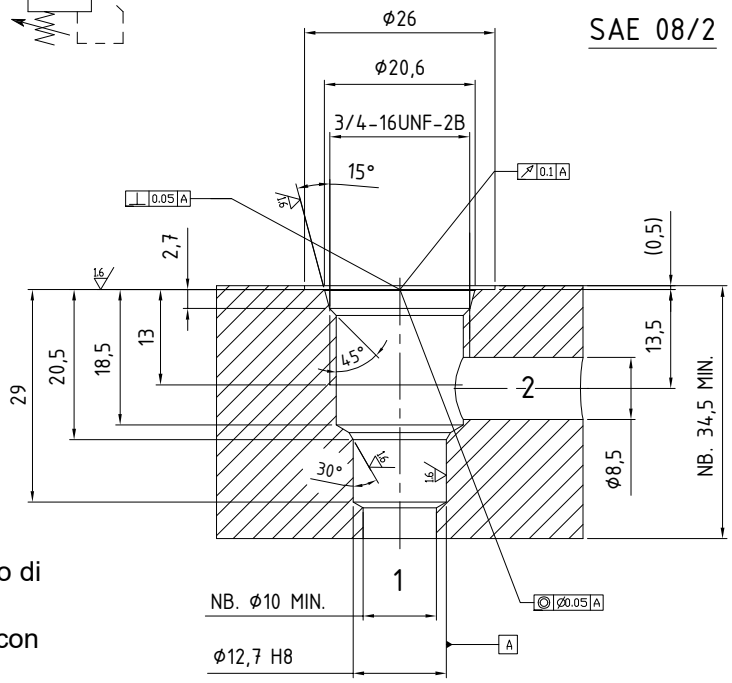


Hydraulic diagram



Cavità
Cavity

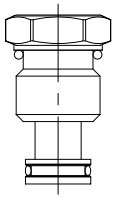
SAE 08/2



(Fare attenzione al foro 1 della cavità per forma cartuccia)
(Pay attention to cavity hole 1 for cartridge shape)

- Pressione max 350 bar
- Portata max 30 Lt/min
- La taratura della pressione si ottiene allentando il dado di bloccaggio ch.19 e ruotando la vite della cartuccia ch.5.
- Fluido da utilizzare: olio idraulico a norme DIN 51524 con viscosità compresa tra 30 e 100 mm²/s (cSt) a 40° C
- Filtrazione richiesta del fluido impiegato 25µ
- Temperatura fluido idraulico: da -20° a +75° C

- Max pressure 350 bar
- Max flow-rate 30 Lt/min
- Calibration pressure is obtained by loosening the lock nut ch.19 and turning the cartridge screw ch.5.
- Fluid to be used: hydraulic oil to DIN 51524 standards with a viscosity between 30 and 100 mm²/s (cSt) to 40° C
- The fluid filtration requested is 25µ
- Temperature hydraulic fluid: -20° to +75° C



Tappo chiusura Cavità
Cavity close plug

TRV34

Codice di ordinazione - *Ordering code*

RV 30 34 *

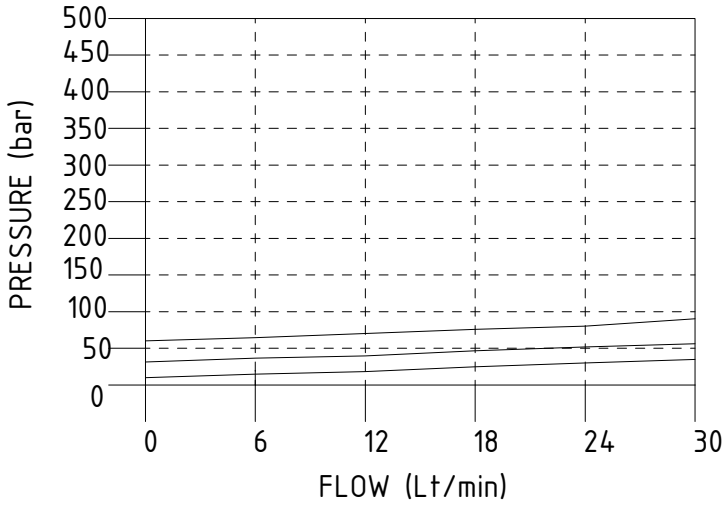
- RV — Valvola di massima pressione / Pressure relief valve
- 30 — 30 Lt/min
- 34 — 3/4-16 UNF SAE 08/2
- * — TABELLA PRESSIONI TARATURA / *SETTING PRESSURE TABLE*

	Setting range
RV30/34	Y = 15 ÷ 60 bar
	A = 25 ÷ 135 bar
	B = 50 ÷ 220 bar
	C = 120 ÷ 350 bar

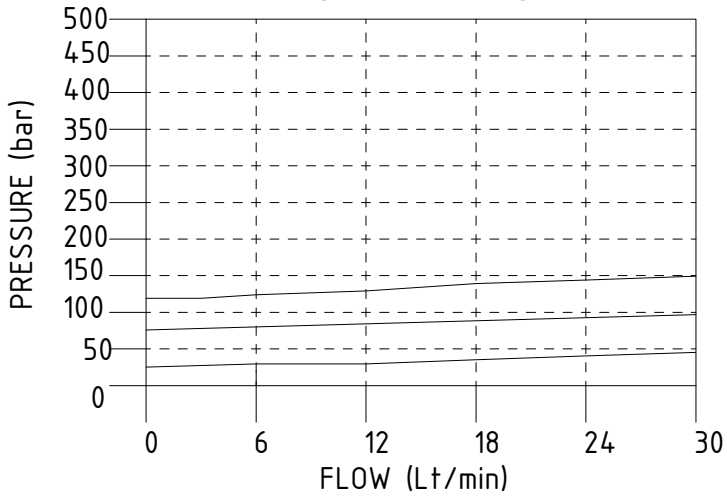
RV 30 34 *

DIAGRAMMI DI FLUSSO
PERFORMANCE DIAGRAMS

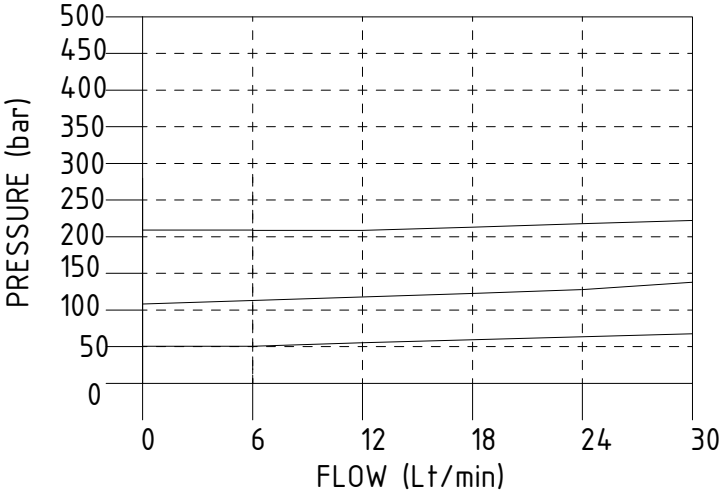
Y (15 - 60 bar)



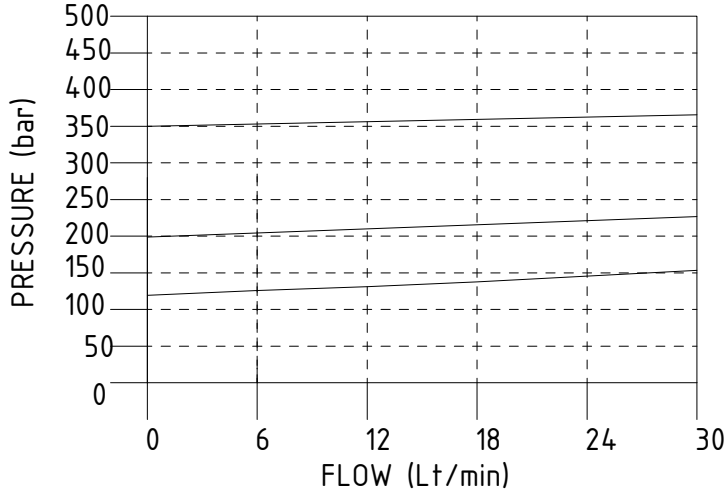
A (25 - 135 bar)



B (50 - 220 bar)



C (120 - 350 bar)

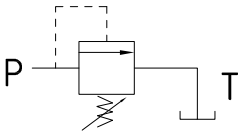


Rappresentate le curve : Max taratura / Media taratura / Min taratura
Curves recorded : Max setting / Medium setting / Min setting

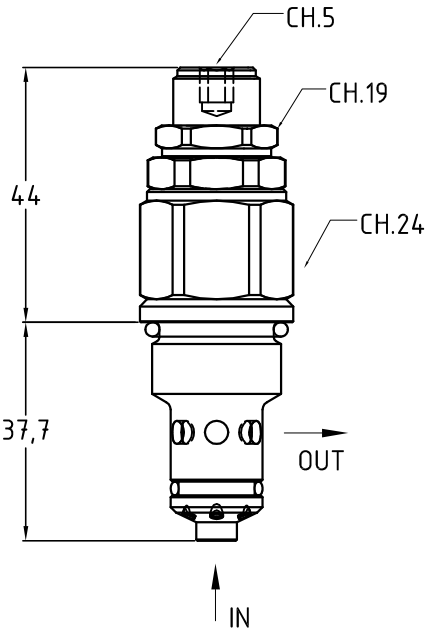
Curve acquisite con Olio minerale 46 cSt @ 40 °C
Curves recorded with Mineral Oil 46 cSt @ 40 °C

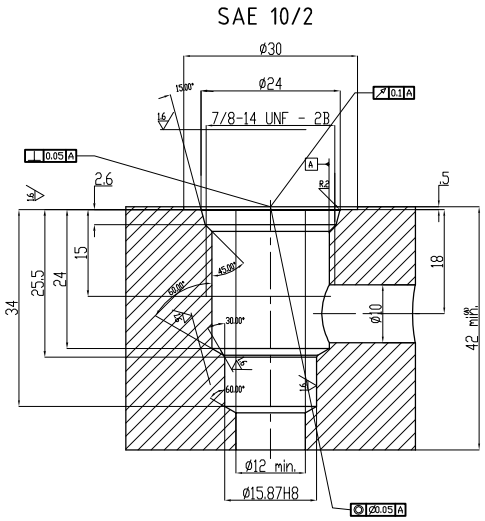
RV 50 78

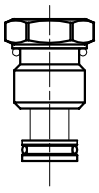
Hydraulic diagram



Cartuccia di massima pressione ad azione diretta
Pressure relief valve direct action







Close plug for RV5078

TRV-78

- La taratura della pressione si ottiene allentando il dado di bloccaggio ch.19 e ruotando la vite della cartuccia ch.5.
- Fluido da utilizzare: olio idraulico a norme DIN 51524 con viscosità compresa tra 30 e 100 mm²/s (cSt) a 40° C
- Filtrazione richiesta del fluido impiegato 25µ
- Temperatura fluido idraulico: da -20° a +75° C

- Calibration pressure is obtained by loosening the lock nut ch.19
and turning the cartridge screw ch.5.
- Fluid to be used: hydraulic oil to DIN 51524 standards with a viscosity between 30 and 100 mm²/s (cSt) to 40° C
- The fluid filtration requested is 25µ
- Temperature hydraulic fluid: -20° to +75° C

Esempio di ordinazione – Ordering code

RV 50 78 *

Cartuccia di massima pressione
Pressure relief valve

50 = 50 L/min.

7/8 = 7/8 unf SAE 10/2

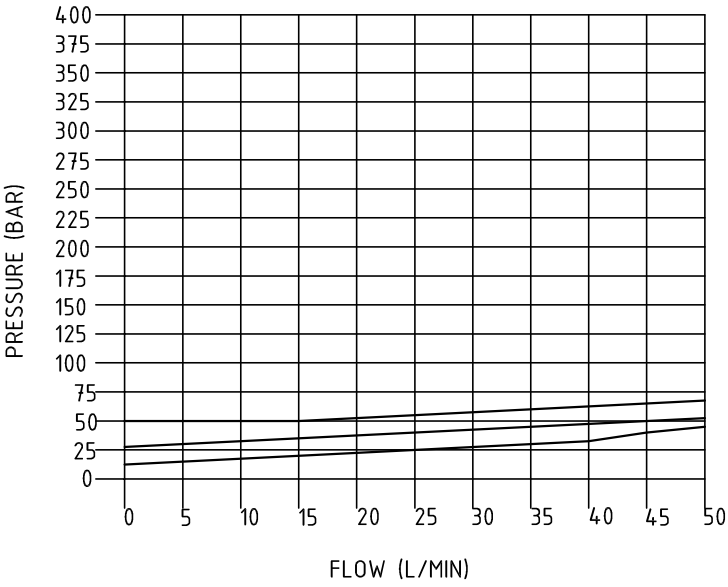
SETTING PRESSURE TABLE

	Optimized	Total
RV50/78	Y= 15÷50	(15÷60)
	A= 51÷120	(25÷135)
	B= 121÷200	(50÷200)
	C= 201÷350	(120÷350)

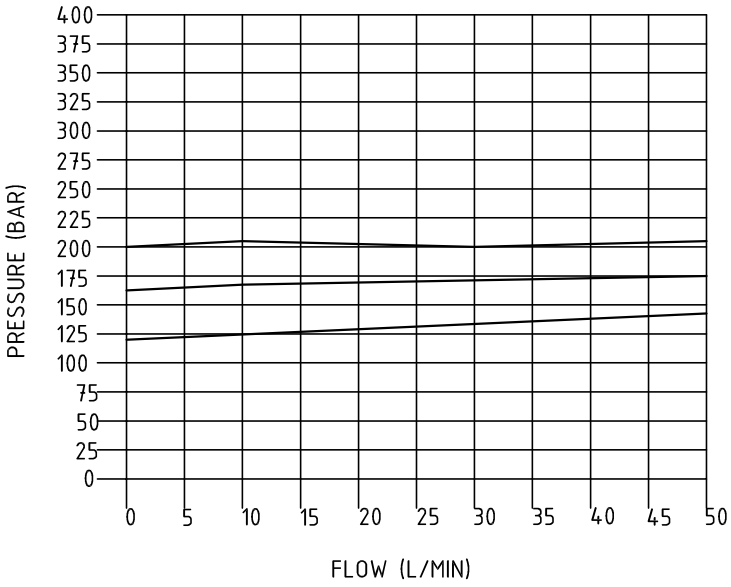
RV 50 78

DIAGRAMMI FLUSSO

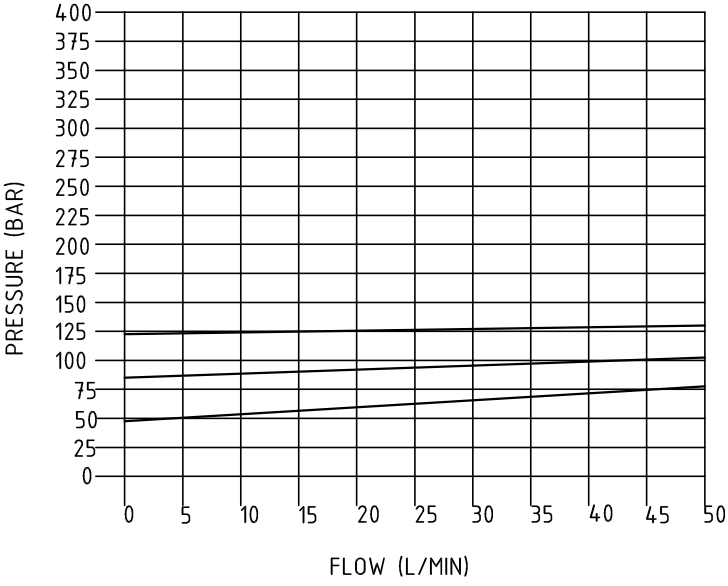
SPING = Y (15-50BAR)



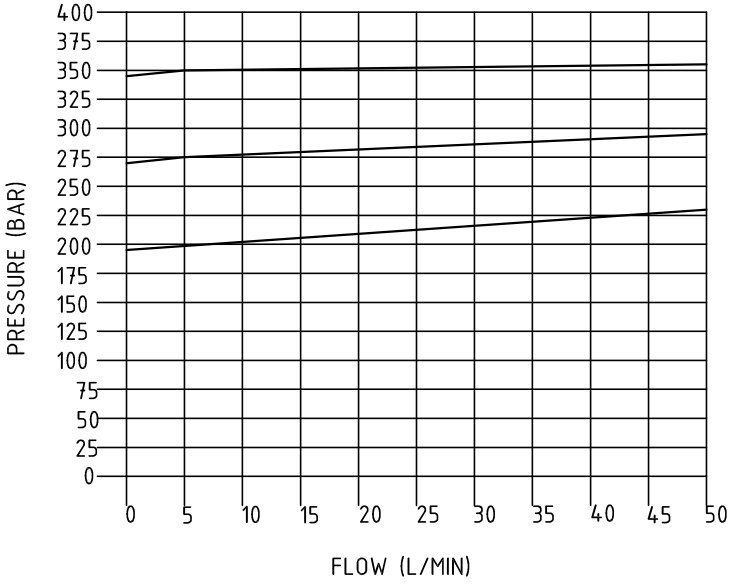
SPING = B (121-200BAR)



SPING = N (51-120BAR)

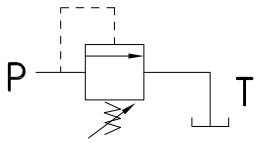


SPING = G (201-350BAR)

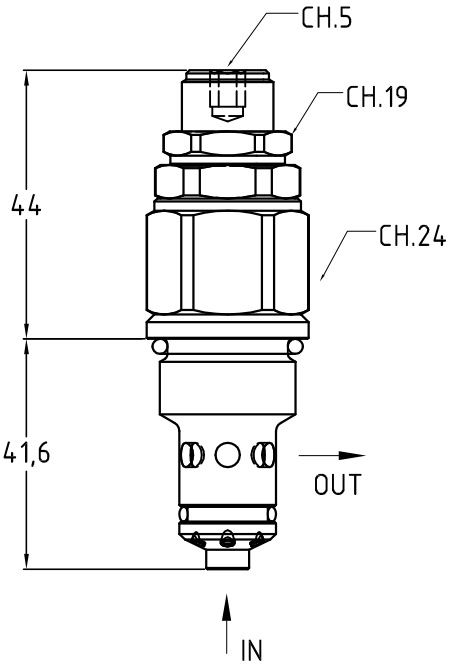


RV 80 78

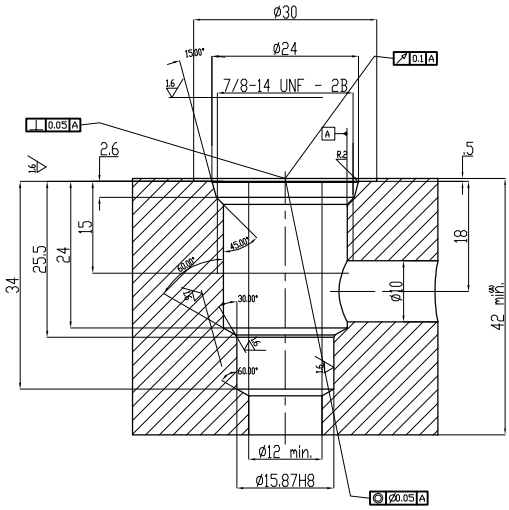
Hydraulic diagram

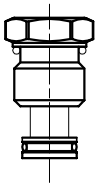


Cartuccia di massima pressione ad azione diretta
Pressure relief valve direct action



SAE 10/2





Close plug for RV8078

TRV-78

- La taratura della pressione si ottiene allentando il dado di bloccaggio ch.19 e ruotando la vite della cartuccia ch.5.
- Fluido da utilizzare: olio idraulico a norme DIN 51524 con viscosità compresa tra 30 e 100 mm²/s (cSt) a 40° C
- Filtrazione richiesta del fluido impiegato 25µ
- Temperatura fluido idraulico: da -20° a +75° C

- Calibration pressure is obtained by loosening the lock nut ch.19
and turning the cartridge screw ch.5.
- Fluid to be used: hydraulic oil to DIN 51524 standards with a viscosity between 30 and 100 mm²/s (cSt) to 40° C
- The fluid filtration requested is 25µ
- Temperature hydraulic fluid: -20° to +75° C

Esempio di ordinazione - Ordering code

RV 80 78 *

Cartuccia di massima pressione
Pressure relief valve

80 = 80 L/min.

7/8 = 7/8 unf SAE 10/2

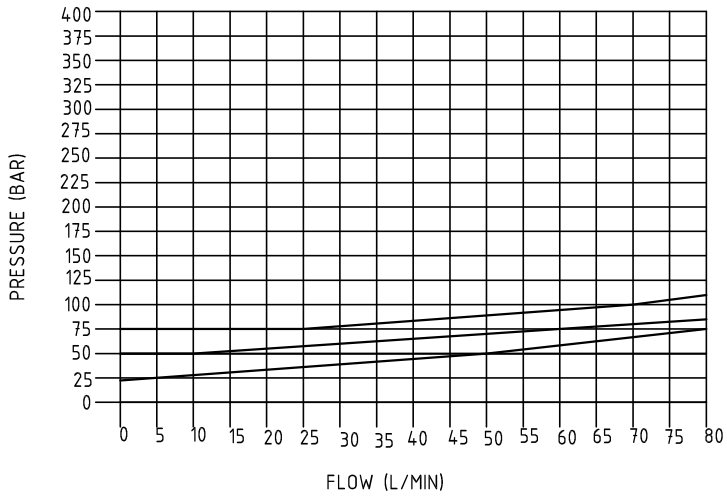
SETTING PRESSURE TABLE

	Optimized	Total
RV80/78	Y= 5÷75	(5÷110)
	A= 75÷125	(10÷180)
	B= 125÷220	(10÷240)
	C= 220÷350	(50÷350)

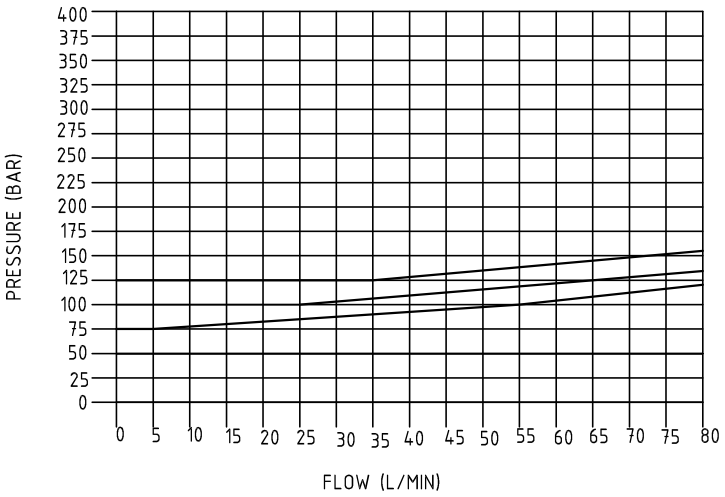
RV 80 78

DIAGRAMMI FLUSSO

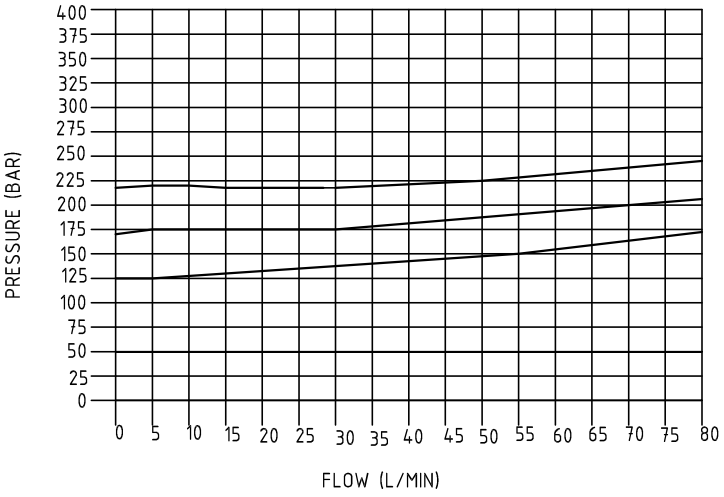
SPRING = Y (25-75BAR)



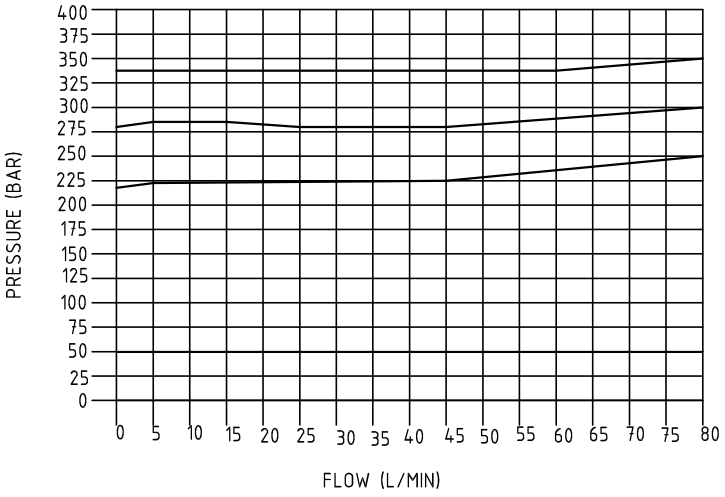
SPRING = A (76-125BAR)



SPRING = B (126-220BAR)



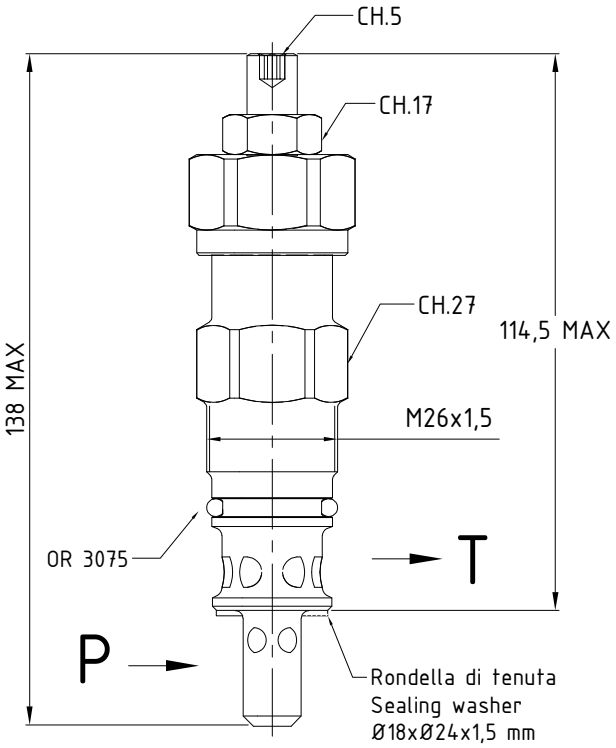
SPRING = C (221-350BAR)



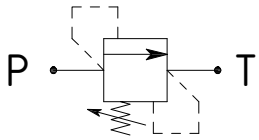
RV 80 *

Valvola di massima pressione a cartuccia, ad azione diretta

Cartridge style Pressure relief valve, direct acting

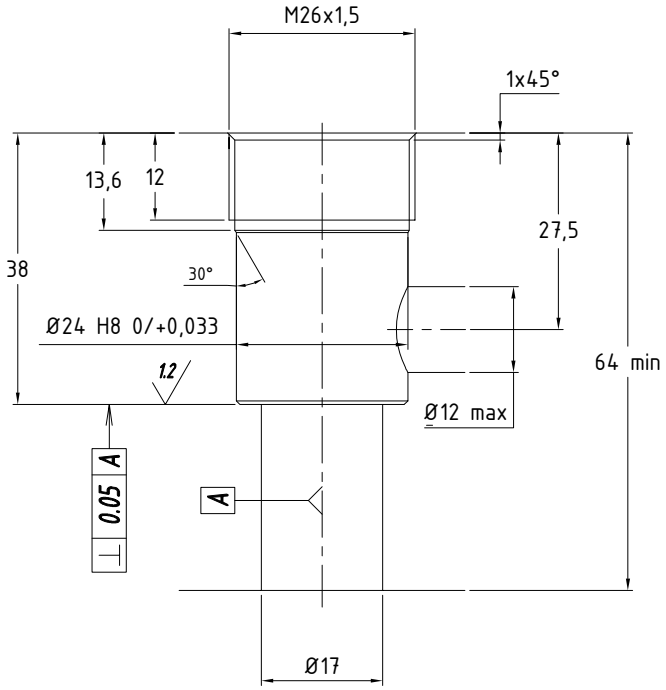


Hydraulic diagram



Cavità
Cavity

RV80

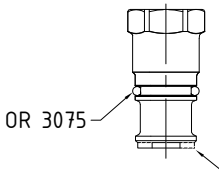


- Pressione max 300 bar
- Portata max 80 Lt/min
- La taratura della pressione si ottiene allentando il dado di bloccaggio ch.17 e ruotando la vite della cartuccia ch.5.
- Fluido da utilizzare: olio idraulico a norme DIN 51524 con viscosità compresa tra 30 e 100 mm²/s (cSt) a 40° C
- Filtrazione richiesta del fluido impiegato 25µ
- Temperatura fluido idraulico: da -20° a +75° C

- Max pressure 300 bar
- Max flow-rate 80 Lt/min
- Calibration pressure is obtained by loosening the lock nut ch.17 and turning the cartridge screw ch.5.
- Fluid to be used: hydraulic oil to DIN 51524 standards with a viscosity between 30 and 100 mm²/s (cSt) to 40° C
- The fluid filtration requested is 25µ
- Temperature hydraulic fluid: -20° to +75° C

Tappo chiusura Cavità
Cavity close plug

TRV-80



Codice di ordinazione - *Ordering code*

RV 80 *

Valvola di massima pressione
Pressure relief valve

80 Lt/min

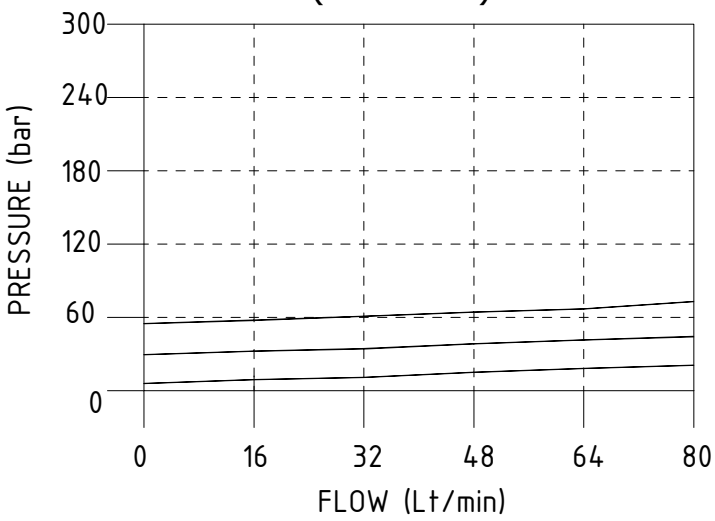
TABELLA PRESSIONI TARATURA
SETTING PRESSURE TABLE

	Setting range
RV 80	Y = 5 ÷ 55 bar
	A = 25 ÷ 110 bar
	B = 70 ÷ 250 bar

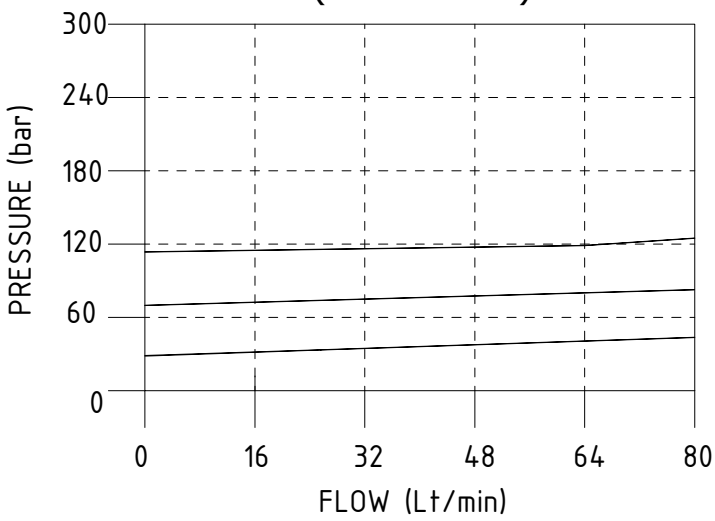
RV 80 *

DIAGRAMMI DI FLUSSO
PERFORMANCE DIAGRAMS

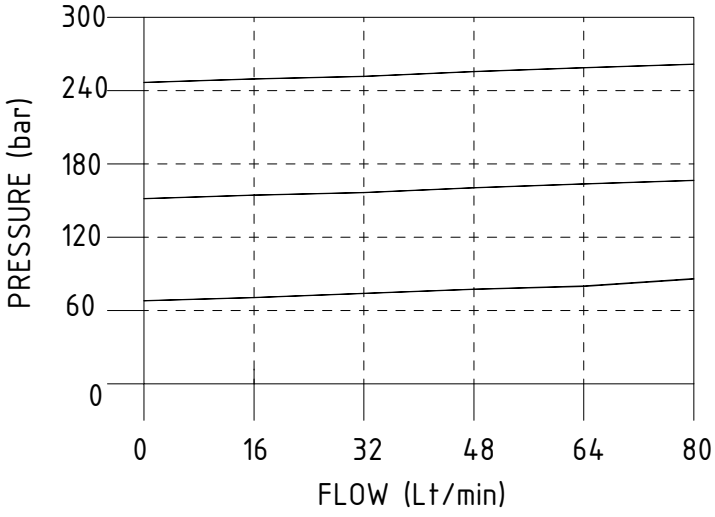
Y (5 - 55 bar)



A (25 - 110 bar)



B (70 - 250 bar)

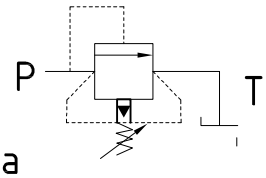


Curve rappresentate :
Max taratura / Media taratura / Min taratura
Curves recorded :
Max setting / Medium setting / Min setting

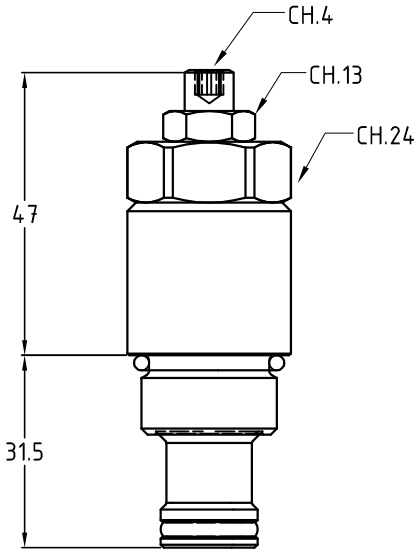
Curve acquisite con Olio minerale 46 cSt @ 40 °C
Curves recorded with Mineral Oil 46 cSt @ 40 °C

RV 120 78

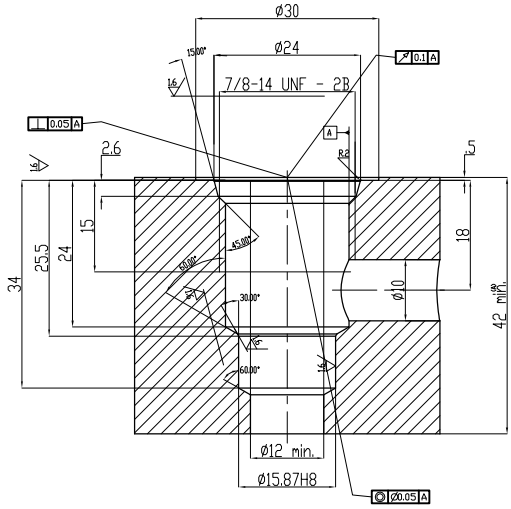
Hydraulic diagram

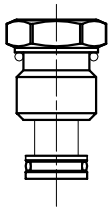


Cartuccia di massima pressione ad azione pilotata
Pressure relief valve pilot operated



SAE 10/2





Close plug for RV12078

TRV-78

- La taratura della pressione si ottiene allentando il dado di bloccaggio ch.13 e ruotando la vite della cartuccia ch.4.
- Fluido da utilizzare: olio idraulico a norme DIN 51524 con viscosità compresa tra 30 e 100 mm²/s (cSt) a 40° C
- Filtrazione richiesta del fluido impiegato 25µ
- Temperatura fluido idraulico: da -20° a +75° C

- Calibration pressure is obtained by loosening the lock nut ch.13
and turning the cartridge screw ch.4.
- Fluid to be used: hydraulic oil to DIN 51524 standards with a viscosity between 30 and 100 mm²/s (cSt) to 40° C
- The fluid filtration requested is 25µ
- Temperature hydraulic fluid: -20° to +75° C

Esempio di ordinazione - Ordering code

RV 120 78 *

Cartuccia di massima pressione
Pressure relief valve

120 = 120 L/min.

7/8 = 7/8 unf SAE 10/2

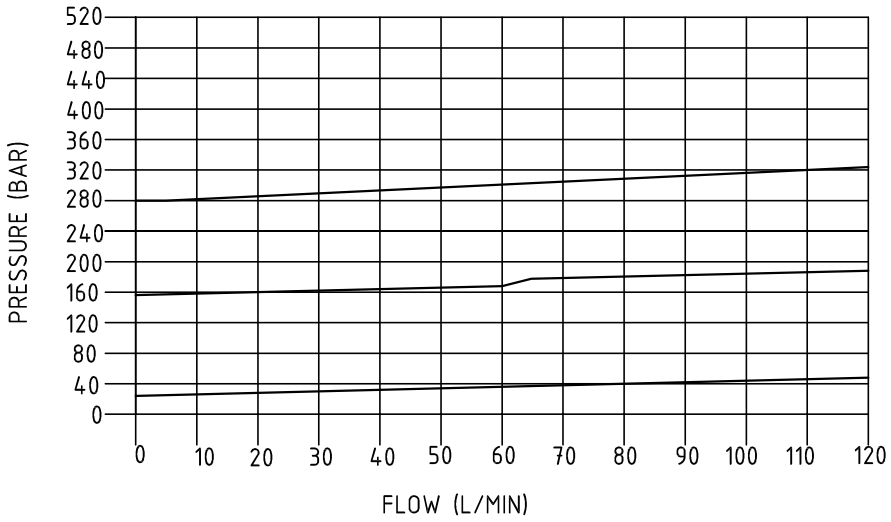
SETTING PRESSURE TABLE

RV120/78	Total
	A= 20÷280
	B= 140÷280
	C= 280÷420

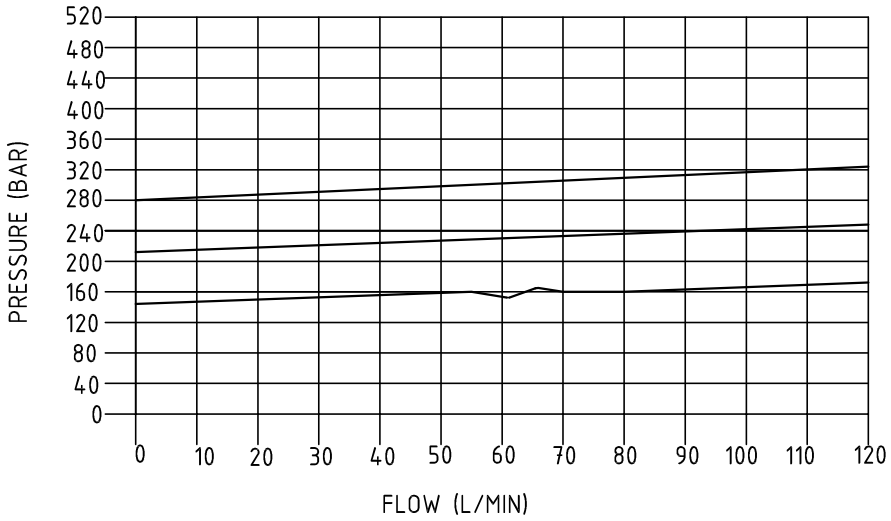
RV 120 78

DIAGRAMMI FLUSSO

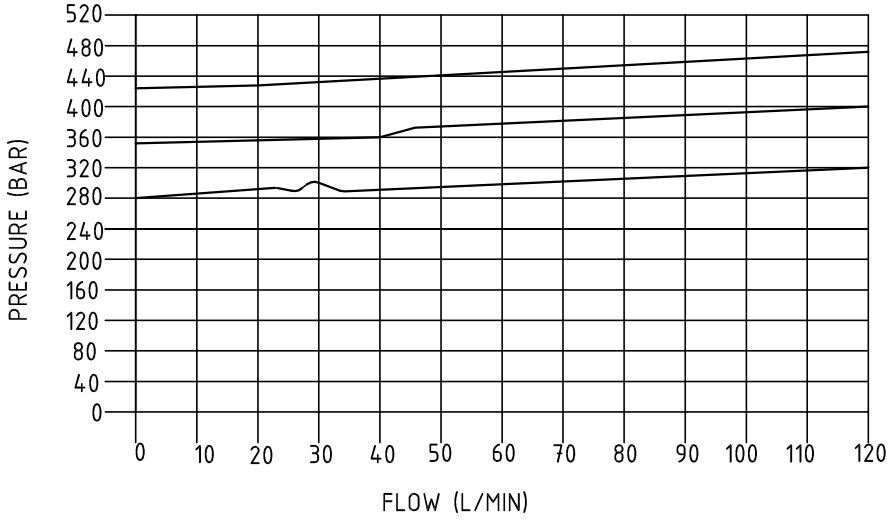
SPRING = A (20-280BAR)



SPRING = B (141-280BAR)



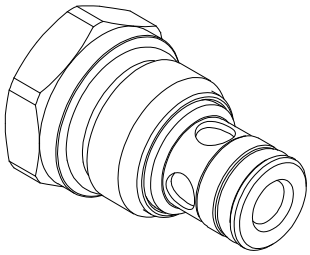
SPRING = C (281-420BAR)



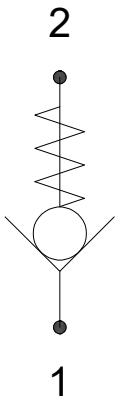
CV 50 34 **

Valvola di ritegno unidirezionale a cartuccia, ad otturatore, SAE08-2

Cartridge style unidirectional Check valve, poppet type, SAE08-2



DATI TECNICI *TECHNICAL DATA*	
Portata max / Max flow-rate	50 Lt/min
Pressione max di lavoro / Max working pressure	410 bar
Trafilamento interno max / Max internal leakage	0,15 ml/min
Pressione di apertura / Cracking pressure	Vedi tabella See table
Tipo di fluido / Fluid type	Olio idraulico DIN-51524 Hydraulic oil DIN-51524
Temp. olio raccomandata / Recommended oil temp.	-30 / +100 °C
Filtrazione raccomandata / Recommended filtration	18/16/13 ISO-4406
Cavità / Cavity	SAE 08/2
Coppia di serraggio / Tightening torque	40-45 Nm
Peso / Weight	0,07 Kg
Corpo esterno in Acciaio zincato / Zinc-plated steel external body	
Parti interne Acciaio TT e rettificato / Hardened and ground Steel internal parts	



Schema idraulico

Hydraulic scheme

Codice di ordinazione - *Ordering code*

CV 50 34 **

50 Lt/min

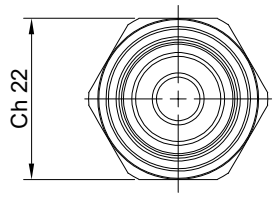
3/4"-16 UNF

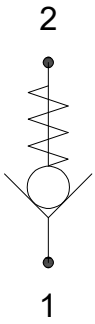
Pressione di apertura / Cracking pressure

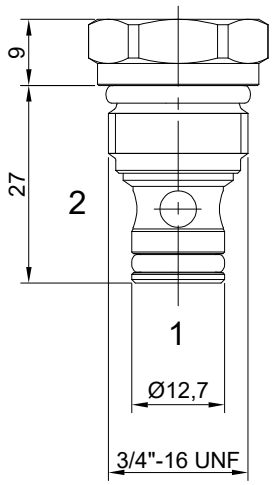
- 05 = 0,5 bar
- 10 = 1,0 bar
- 25 = 2,5 bar
- 50 = 5,0 bar
- 70 = 7,0 bar
- 90 = 9,0 bar
- 150 = 15,0 bar

Su richiesta / On request

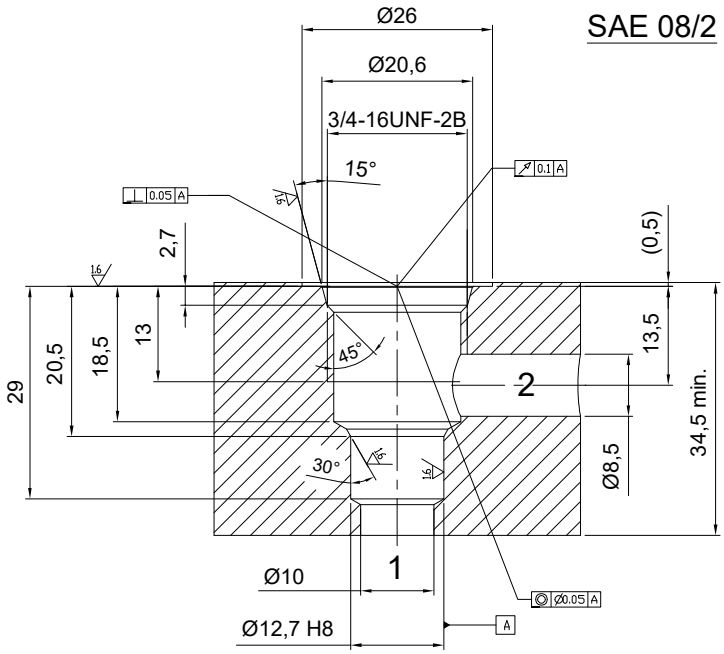
CV 50 34 **





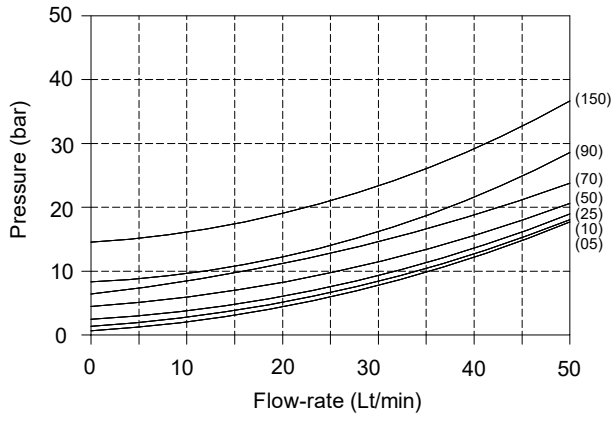


Cavità
Cavity

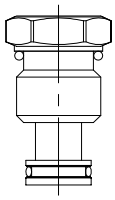


Prestare attenzione alla lavorazione della cavità, sia le dimensioni che le finiture.
Pay attention to the tooling of the cavity, both the dimensions and the finishing.

Perdite di carico / *Pressure drop*



Curve acquisite con Olio minerale 46 cSt @ 40 °C
Curves recorded with Mineral Oil 46 cSt @ 40 °C

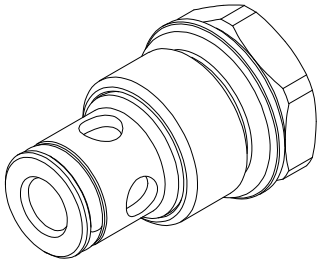


Tappo chiusura Cavità
Cavity close plug

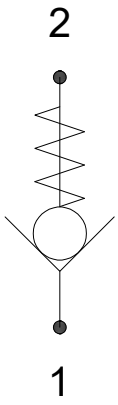
TRV34

CV 80 78 *

Valvola di ritegno unidirezionale a cartuccia, ad otturatore, SAE10-2
Cartridge style unidirectional Check valve, poppet type, SAE10-2



DATI TECNICI *TECHNICAL DATA*	
Portata max / Max flow-rate	80 Lt/min
Pressione max di lavoro / Max working pressure	410 bar
Trafilamento interno max / Max internal leakage	0,15 ml/min
Pressione di apertura / Cracking pressure	Vedi tabella See table
Tipo di fluido / Fluid type	Olio idraulico DIN-51524 Hydraulic oil DIN-51524
Temp. olio raccomandata / Recommended oil temp.	-30 / +100 °C
Filtrazione raccomandata / Recommended filtration	18/16/13 ISO-4406
Cavità / Cavity	SAE 10/2
Coppia di serraggio / Tightening torque	60-65 Nm
Peso / Weight	0,10 Kg
Corpo esterno in Acciaio zincato / Zinc-plated steel external body	
Parti interne Acciaio TT e rettificato / Hardened and ground Steel internal parts	



Schema idraulico
Hydraulic scheme

Codice di ordinazione - *Ordering code*

CV 80 78 *

80 Lt/min

7/8"-14 UNF

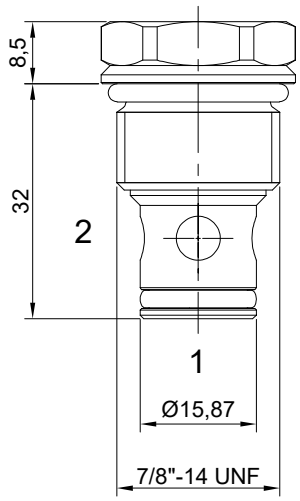
Pressione di apertura / Cracking pressure

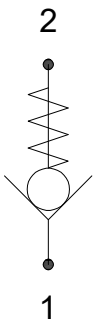
N = 1,0 bar

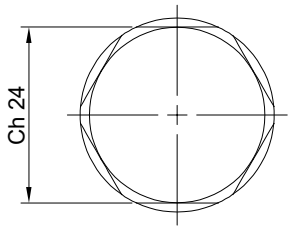
B = 3,0 bar

G = 8,0 bar

CV 80 78 *

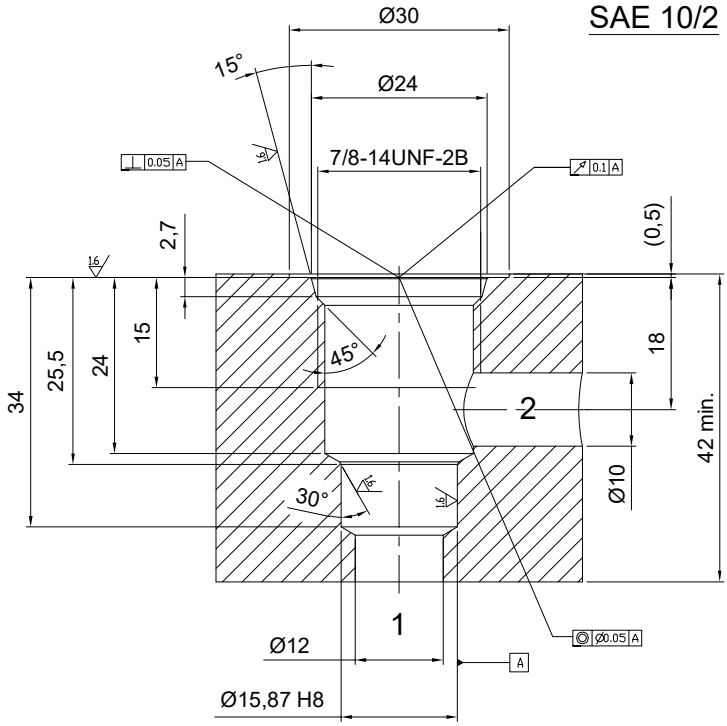






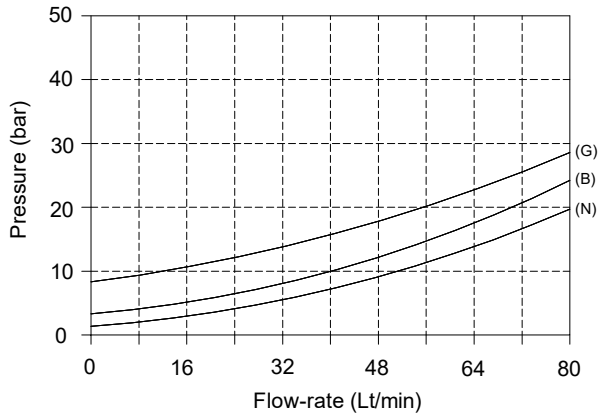
Cavità
Cavity

SAE 10/2

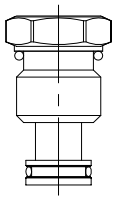


Prestare attenzione alla lavorazione della cavità, sia le dimensioni che le finiture.
Pay attention to the tooling of the cavity, both the dimensions and the finishing.

Perdite di carico / *Pressure drop*



Curve acquisite con Olio minerale 46 cSt @ 40 °C
Curves recorded with Mineral Oil 46 cSt @ 40 °C



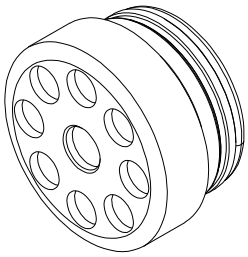
Tappo chiusura Cavità
Cavity close plug

TRV78

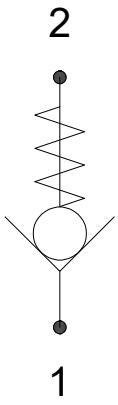
CVC G **

Valvola di ritegno unidirezionale ad inserto filettato, ad otturatore, GAS bspp

Insert type unidirectional Check valve, poppet type, GAS bspp threaded



DATI TECNICI *TECHNICAL DATA*	
Portata max / Max flow-rate Q max	Vedi tabella sotto See table below
Pressione max di lavoro / Max working pressure	350 bar
Trafilamento interno max / Max internal leakage	0,10 ml/min
Pressione di apertura / Cracking pressure	0,5 bar
Tipo di fluido / Fluid type	Olio idraulico DIN-51524 Hydraulic oil DIN-51524
Temp. olio raccomandata / Recommended oil temp.	-30 / +100 °C
Filtrazione raccomandata / Recommended filtration	18/16/13 ISO-4406
Cavità / Cavity	Vedi pag. 2/2 See pag. 2/2
Peso / Weight	Vedi pag. 2/2 See pag. 2/2
Corpo esterno in Acciaio / Steel external body	
Parti interne Acciaio TT e rettificato / Hardened and ground Steel internal parts	
Guarnizione O-Ring in NBR / NBR O-Ring seal	



Schema idraulico
Hydraulic scheme

Codice di ordinazione - *Ordering code*

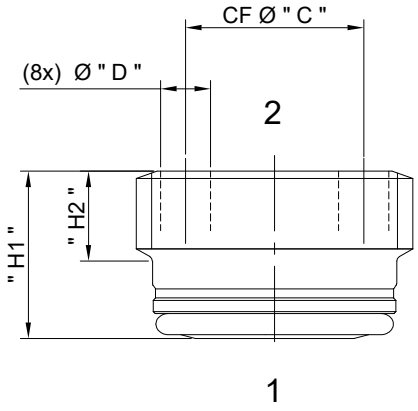
CVC G **

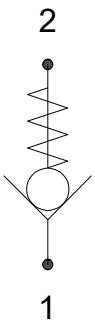
Tenuta da 2 a 1
Sealing from 2 to 1

GAS bspp

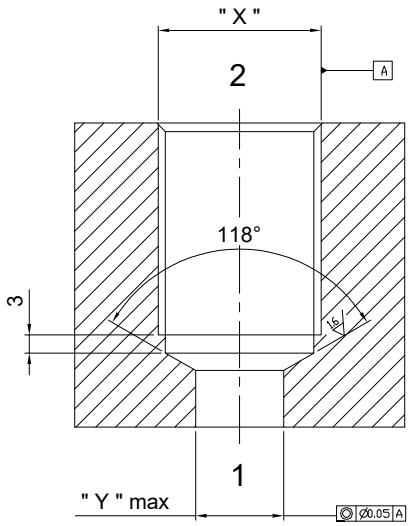
- 18 = 1/8" GAS = Q max 10 Lt/min
- 14 = 1/4" GAS = Q max 20 Lt/min
- 38 = 3/8" GAS = Q max 50 Lt/min
- 12 = 1/2" GAS = Q max 80 Lt/min
- 34 = 3/4" GAS = Q max 120 Lt/min

CVC G **





Cavità
Cavity



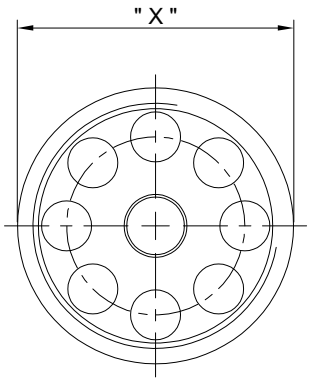
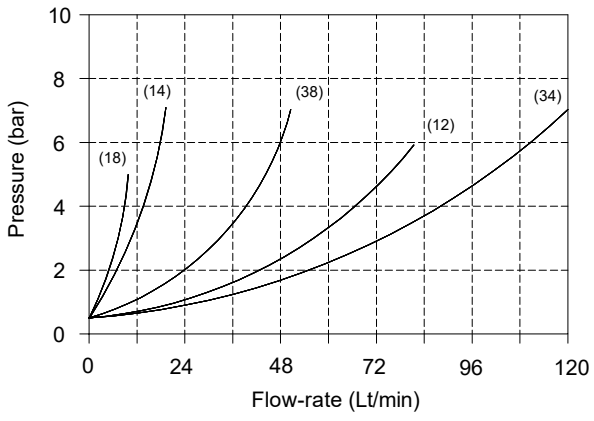


Tabella DIMENSIONI
DIMENSIONS table

Codice *Code*	X GAS	Kg	H1	H2	C	D	Y
18	1/8"	0,002	7,5	3,5	5,6	1,6	5
14	1/4"	0,005	8,5	4,5	8,4	2,2	7
38	3/8"	0,011	11,3	6	11,1	3,0	9
12	1/2"	0,019	12,7	6,5	13,5	3,8	12
34	3/4"	0,040	14,8	7,5	16,5	5,0	18

Prestare attenzione alla lavorazione della cavità, sia le dimensioni che le finiture
Pay attention to the tooling of the cavity, both the dimensions and the finishing

Perdite di carico / *Pressure drop*



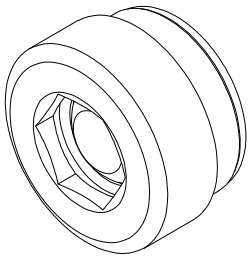
Curve acquisite con Olio minerale 46 cSt @ 40 °C
Curves recorded with Mineral Oil 46 cSt @ 40 °C

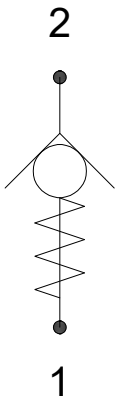
Per informazioni in merito alle apposite chiavi di montaggio della valvola ed ai rispettivi valori di coppia di serraggio, prego di rivolgersi direttamente ai nostri uffici.
For informations regarding the appropriate valve assembly tools and their respective tightening torque values, please contact our offices directly.

CVCR G **

Valvola di ritegno unidirezionale ad inserto filettato, ad otturatore, GAS bspp

Insert type unidirectional Check valve, poppet type, GAS bspp threaded





Schema idraulico

Hydraulic scheme

DATI TECNICI *TECHNICAL DATA*	
Portata max / Max flow-rate Q max	Vedi tabella sotto See table below
Pressione max di lavoro / Max working pressure	350 bar
Trafilamento interno max / Max internal leakage	0,10 ml/min
Pressione di apertura / Cracking pressure	0,5 bar
Tipo di fluido / Fluid type	Olio idraulico DIN-51524 Hydraulic oil DIN-51524
Temp. olio raccomandata / Recommended oil temp.	-30 / +100 °C
Filtrazione raccomandata / Recommended filtration	18/16/13 ISO-4406
Cavità / Cavity	Vedi pag. 2/2 See pag. 2/2
Peso / Weight	Vedi pag. 2/2 See pag. 2/2
Corpo esterno in Acciaio / Steel external body	
Parti interne Acciaio TT e rettificato / Hardened and ground Steel internal parts	
Guarnizione O-Ring in NBR / NBR O-Ring seal	

Codice di ordinazione - *Ordering code*

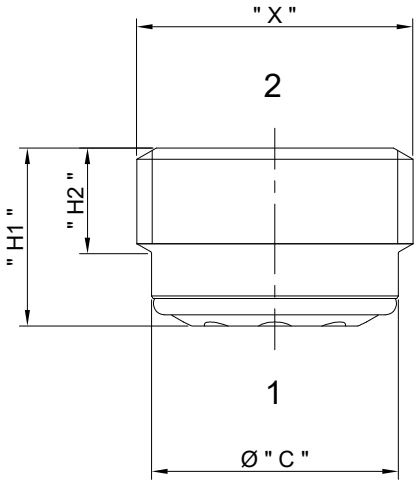
CVCR G **

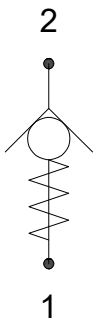
Tenuta da 1 a 2
Sealing from 1 to 2

GAS bspp

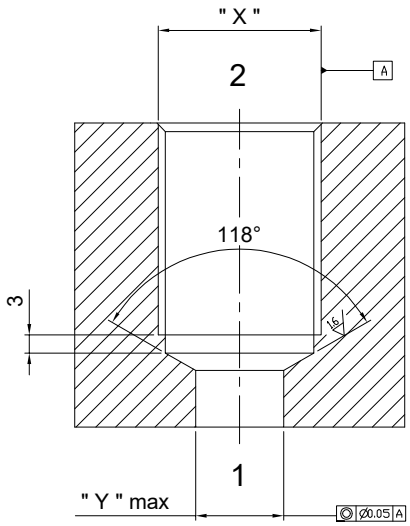
- 18 = 1/8" GAS = Q max 10 Lt/min
- 14 = 1/4" GAS = Q max 20 Lt/min
- 38 = 3/8" GAS = Q max 50 Lt/min
- 12 = 1/2" GAS = Q max 80 Lt/min
- 34 = 3/4" GAS = Q max 120 Lt/min

CVCR G **





Cavità
Cavity



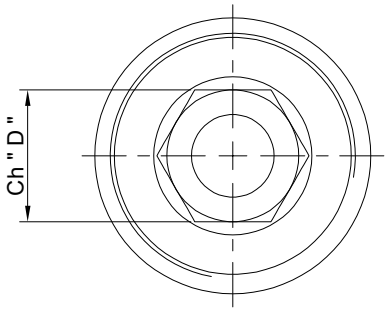
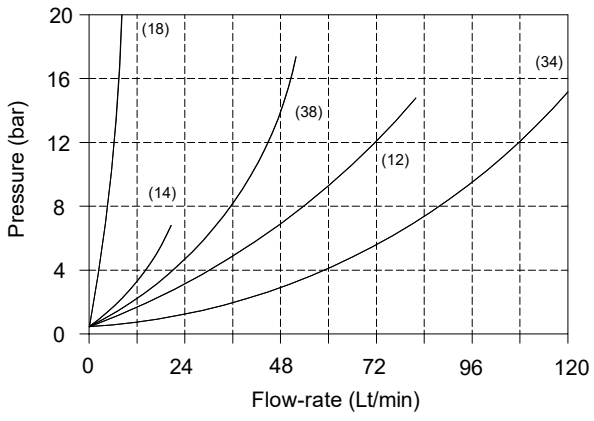


Tabella DIMENSIONI
DIMENSIONS table

Codice *Code*	X GAS	Kg	H1	H2	C	D	Y
18	1/8"	0,003	8,0	4,0	8,5	4	5
14	1/4"	0,007	10,2	5,5	11,5	6	7
38	3/8"	0,015	11,7	7,5	14,9	8	9
12	1/2"	0,023	13,5	8,0	18,7	10	12
34	3/4"	0,050	17,5	11,5	24	10	18

Prestare attenzione alla lavorazione della cavità, sia le dimensioni che le finiture
Pay attention to the tooling of the cavity, both the dimensions and the finishing

Perdite di carico / *Pressure drop*

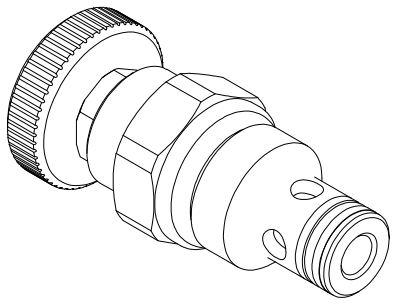


Curve acquisite con Olio minerale 46 cSt @ 40 °C
Curves recorded with Mineral Oil 46 cSt @ 40 °C

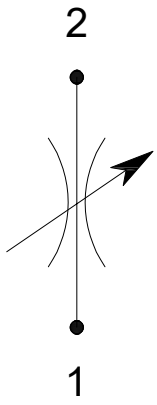
Per informazioni in merito ai rispettivi valori di coppia di serraggio, prego di rivolgersi direttamente ai nostri uffici.
For informations regarding the respective tightening torque values, please contact our offices directly.

FR 40 34 **

Valvola di controllo portata bidirezionale a cartuccia, non compensata, SAE08/2
Cartridge style bidirectional Flow control valve, not compensated, SAE08/2



DATI TECNICI *TECHNICAL DATA*	
Portata max / Max flow-rate	40 Lt/min
Pressione max di lavoro / Max working pressure	350 bar
Tipo di fluido / Fluid type	Olio idraulico DIN-51524 Hydraulic oil DIN-51524
Temp. olio raccomandata / Recommended oil temp.	-30 / +100 °C
Filtrazione raccomandata / Recommended filtration	18/16/13 ISO-4406
Cavità / Cavity	SAE 08/2
Coppia di serraggio / Tightening torque	35-40 Nm
Peso / Weight	0,10 Kg
Corpo esterno in Acciaio zincato / Zinc-plated steel external body	
Parti interne Acciaio TT e rettificato / Hardened and ground Steel internal parts	



Schema idraulico
Hydraulic scheme

Codice di ordinazione - *Ordering code*

FR 40 34 **

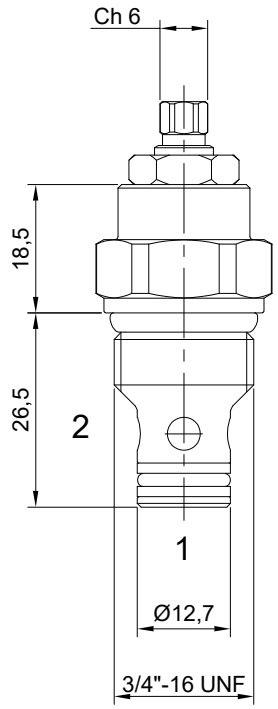
40 Lt/min

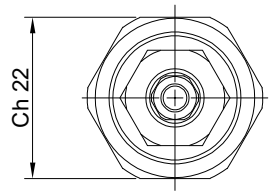
3/4"-16 UNF

00 = Regolazione a VITE
00 = SCREW adjustment
0V = Regolazione a VOLANTINO
0V = HANDKNOB adjustment

FR 40 34 **

FR4034 - 00

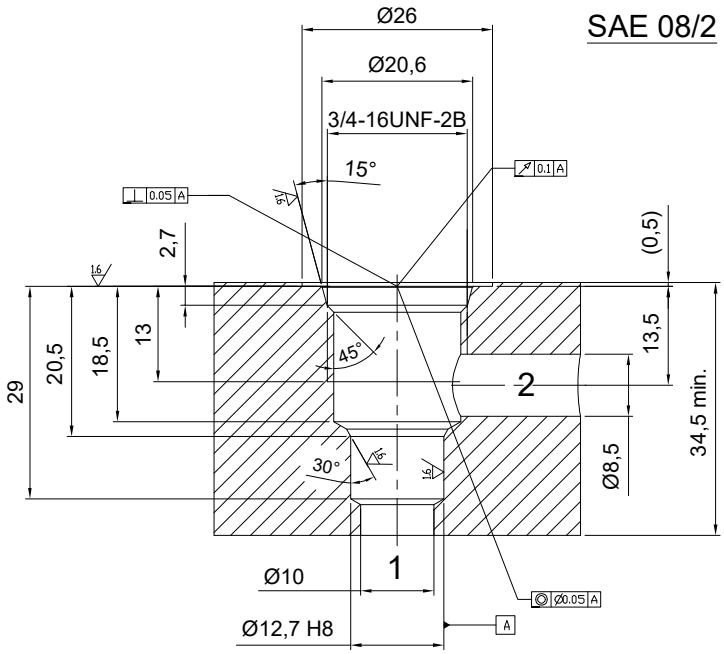




FR4034 - 0V

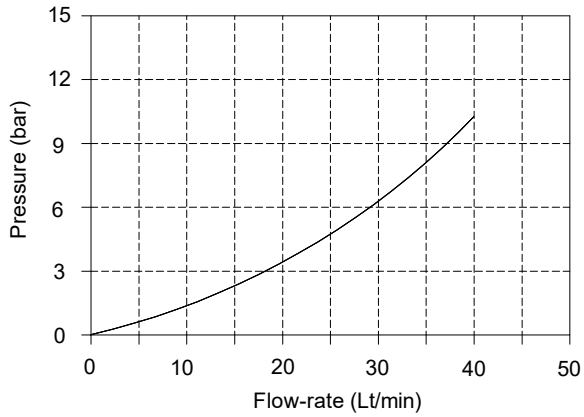


Cavità
Cavity

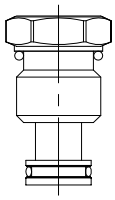


Prestare attenzione alla lavorazione della cavità, sia le dimensioni che le finiture
Pay attention to the tooling of the cavity, both the dimensions and the finishing

Perdite di carico / *Pressure drop*



Curve acquisite con Olio minerale 46 cSt @ 40 °C
Curves recorded with Mineral Oil 46 cSt @ 40 °C



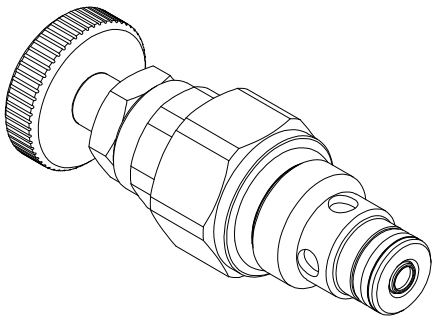
Tappo chiusura Cavità
Cavity close plug

TRV34

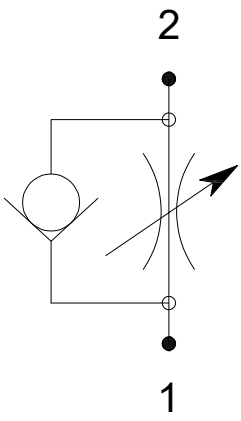
FRU 40 34 **

Valvola di controllo portata unidirezionale a cartuccia, non compensata, SAE08/2

Cartridge style unidirectional Flow control valve, not compensated, SAE08/2



DATI TECNICI *TECHNICAL DATA*	
Portata max / Max flow-rate	40 Lt/min
Pressione max di lavoro / Max working pressure	350 bar
Tipo di fluido / Fluid type	Olio idraulico DIN-51524 Hydraulic oil DIN-51524
Temp. olio raccomandata / Recommended oil temp.	-30 / +100 °C
Filtrazione raccomandata / Recommended filtration	18/16/13 ISO-4406
Cavità / Cavity	SAE 08/2
Coppia di serraggio / Tightening torque	35-40 Nm
Peso / Weight	0,15 Kg
Corpo esterno in Acciaio zincato / Zinc-plated steel external body	
Parti interne Acciaio TT e rettificato / Hardened and ground Steel internal parts	



Schema idraulico

Hydraulic scheme

Codice di ordinazione - *Ordering code*

FRU 40 34 **

40 Lt/min

3/4"-16 UNF

00 = Regolazione a VITE

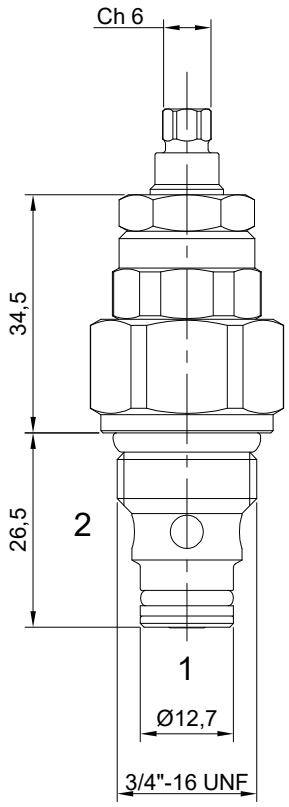
00 = SCREW adjustment

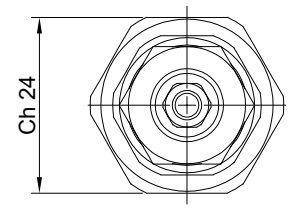
0V = Regolazione a VOLANTINO

0V = HANDKNOB adjustment

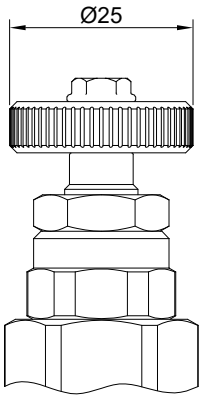
FRU 40 34 **

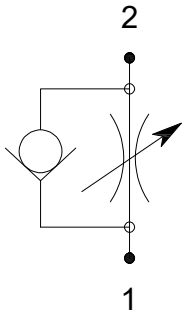
FRU4034 - 00





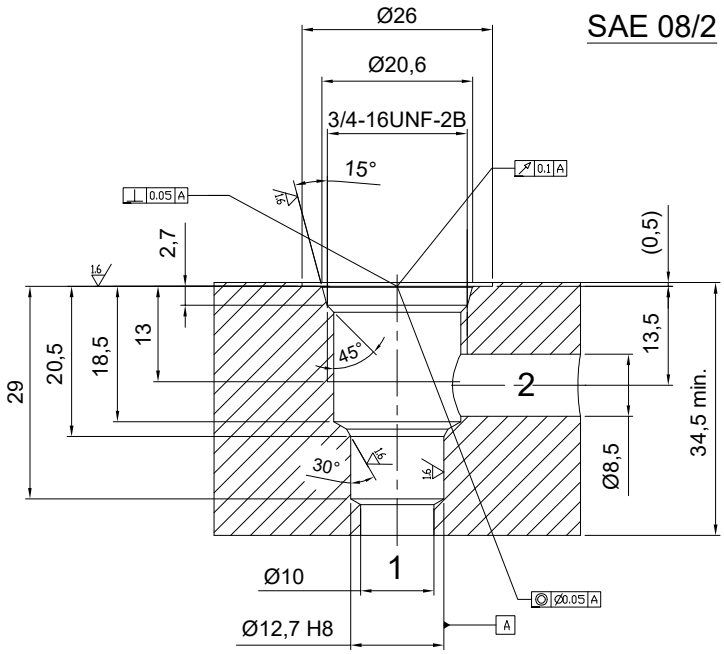
FRU4034 - 0V





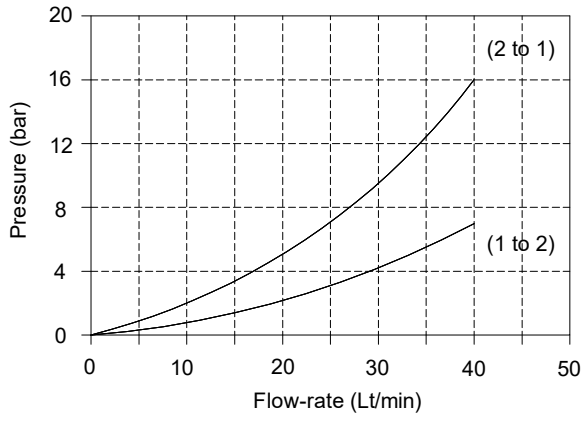
Cavità
Cavity

SAE 08/2

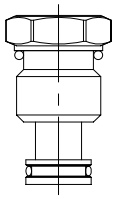


Prestare attenzione alla lavorazione della cavità, sia le dimensioni che le finiture
Pay attention to the tooling of the cavity, both the dimensions and the finishing

Perdite di carico / *Pressure drop*



Curve acquisite con Olio minerale 46 cSt @ 40 °C
Curves recorded with Mineral Oil 46 cSt @ 40 °C



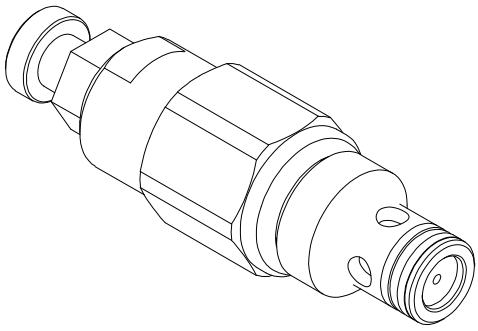
Tappo chiusura Cavità
Cavity close plug

TRV34

FRC 34 **

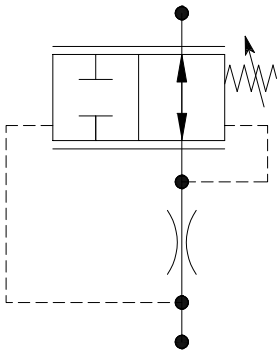
Valvola di controllo portata a cartuccia, compensata in pressione, SAE08/2

Cartridge style Flow control valve, pressure compensated, SAE08/2



(Portata controllata)
(Regulated flow)

2



1

Schema idraulico
Hydraulic scheme

DATI TECNICI *TECHNICAL DATA*	
Portata max / Max flow-rate	Vedi tabella See table
Pressione max di lavoro / Max working pressure	350 bar
Tipo di fluido / Fluid type	Olio idraulico DIN-51524 Hydraulic oil DIN-51524
Temp. olio raccomandata / Recommended oil temp.	-30 / +100 °C
Filtrazione raccomandata / Recommended filtration	18/16/13 ISO-4406
Cavità / Cavity	SAE 08/2
Coppia di serraggio / Tightening torque	35-40 Nm
Peso / Weight	0,13 Kg
Corpo esterno in Acciaio zincato / Zinc-plated steel external body	
Parti interne Acciaio TT e rettificato / Hardened and ground Steel internal parts	

Nella direzione del flusso 1-2 la portata è stabilita dalla dimensione della strozzatura fissa calibrata, con una minima regolazione variabile del campo di portata, e compensata quindi indipendente dalla pressione dell'impianto. La direzione del flusso 2-1 è ammessa, strozzata, ma non compensata alla pressione.

In the 1-2 flow direction, the flow-rate is determined by the size of the fixed calibrated orifice, with a minimal adjustment of the flow range, and it is pressure compensated therefore indipendent from the system pressure. The 2-1 flow direction is allowed, restricted, but not pressure-compensated.

Codice di ordinazione - *Ordering code*

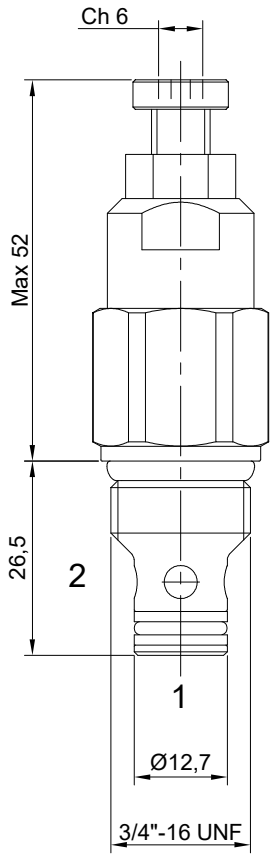
FRC 34 **

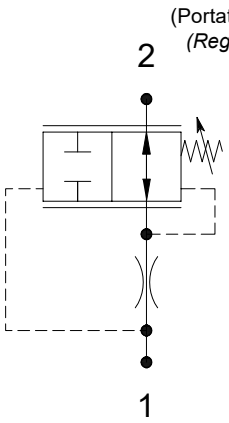
3/4"-16 UNF

Campo di portata controllato / Regulated flow range

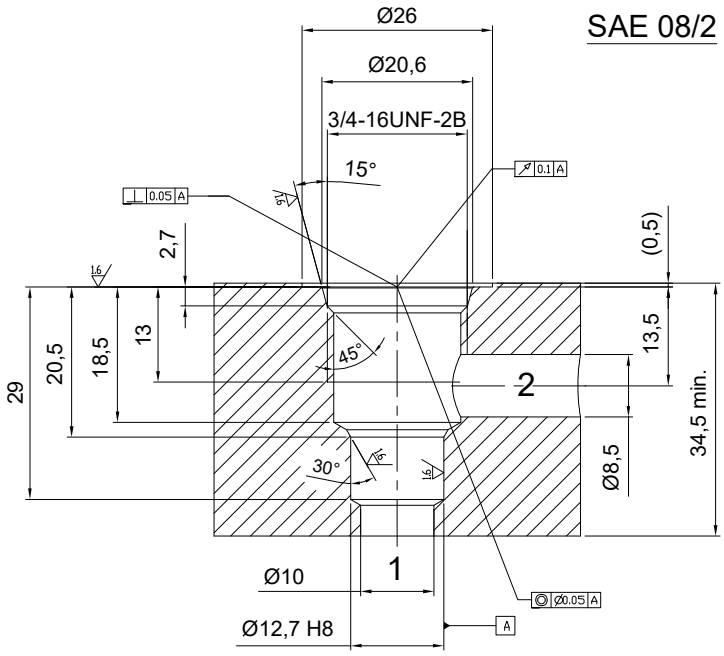
- 02.2 = 0,5 - 2,2 Lt/min
- 03.0 = 0,8 - 3,0 Lt/min
- 05.1 = 1,3 - 5,1 Lt/min
- 06.8 = 1,9 - 6,8 Lt/min
- 09.1 = 2,5 - 9,1 Lt/min
- 14.4 = 4,0 - 14,4 Lt/min
- 24.0 = 7,2 - 24,0 Lt/min
- 35.0 = 10,0 - 35,0 Lt/min

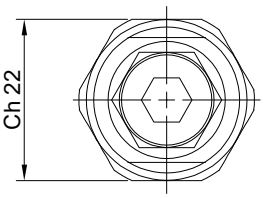
FRC 34 **





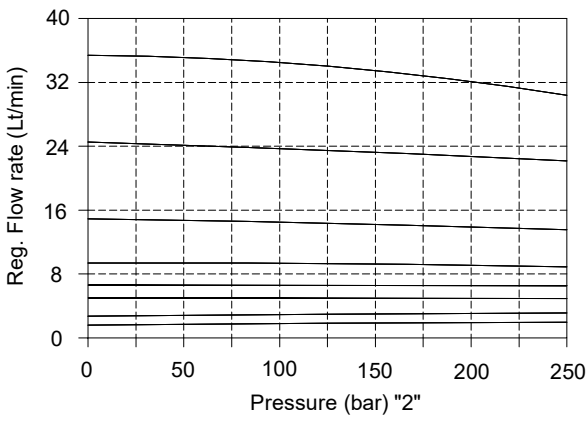
Cavità
Cavity



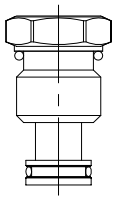


Prestare attenzione alla lavorazione della cavità, sia le dimensioni che le finiture
Pay attention to the tooling of the cavity, both the dimensions and the finishing

Curve di compensazione / *Compensation curves*



Curve acquisite con Olio minerale 46 cSt @ 40 °C
Curves recorded with Mineral Oil 46 cSt @ 40 °C



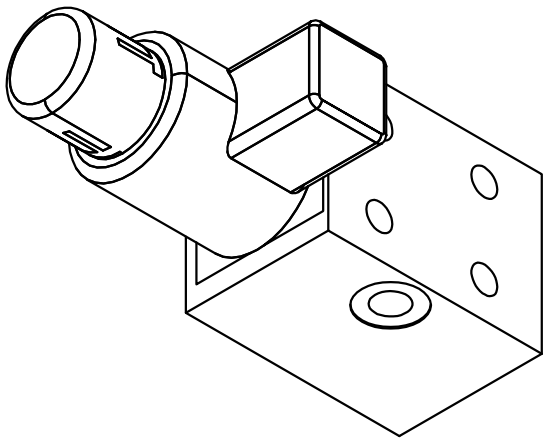
Tappo chiusura Cavità
Cavity close plug

TRV34

Per una migliore compensazione delle variazioni di pressione, selezionare il campo di portata corretto.

For better compensation from pressure variations, select the correct flow range.

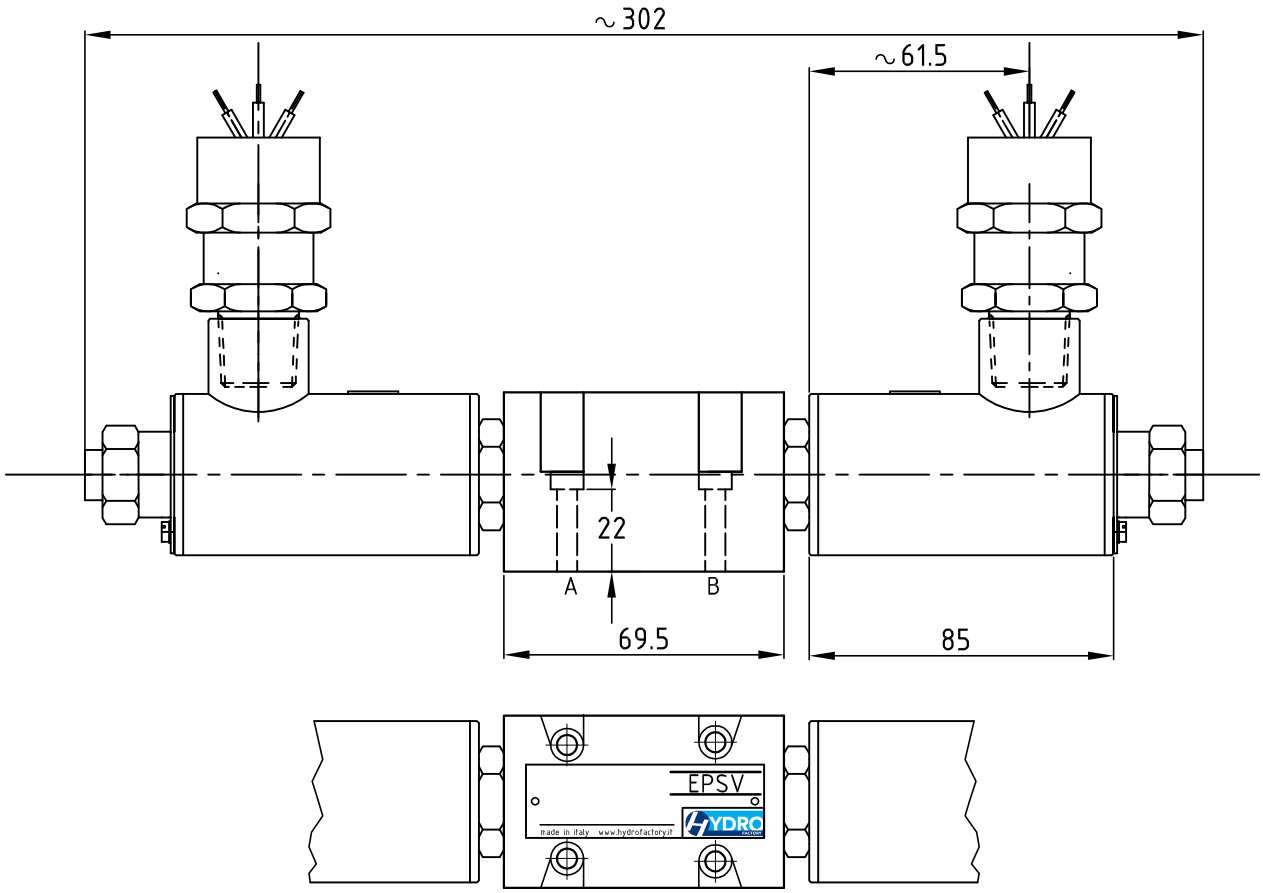
Valvole ed elettrovalvole Cetop
Valves and electrolvalves Cetop



Sezione N
Section N

EPSV

Valvola con solenoide antideflagrante direttiva ATEX 94/9/CE
Explosion proof solenoid valve according to ATEX 94/9 CE



Pressione massima 350 bar
Max pressure 350 bar

Portata max. 50 lt/min
Max flow 50 lt/min

Lunghezza standard cavo mt. 1.5 CEI 20-22
Cable standard lenght mt. 1.5 CEI 20-22

Elettrovalvola cetop 03 a comando diretto.
Il solenoide è costruito secondo le direttive ATEX 94/9/CE gr. II-2G
Grado di protezione IP67 dirett. IEC60529
Certificazioni IEC60079/IEC61241

Cetop 03 direct operated solenoid valves.
Solenoid certified according to ATEX 94/9/CE gr. II-2G.
Protection grade IP67 according to IEC60529.
Certification complyng with IEC60079/IEC61241.

Esempio di ordinazione - ordering code

EPSV 3 * * * *

Valvola con solenoide antideflagrante
Explosion proof solenoid valve

Cetop 03
Cetop 03

M = monosolenoide
M = single solenoid

B = bisolenoide
B = double solenoid

Tensione solenoide
Solenoid tension
12DC=12 VDC 24DC=24 VDC 110DC=110 VDC
110AC=110 VAC-50/60Hz 220AC=220 VAC-50/60Hz

Tipo di cursore (vedi Tabella 02)
Spool type (see Table 02)

Configurazione (vedi Tabella 01)
Configuration (see Table 01)

EPSV

Valvola con solenoide antideflagrante direttiva ATEX 94/9/CE
Explosion proof solenoid valve according to ATEX 94/9/CE

Tabella 01 Configurazione
Table 01 Configuration

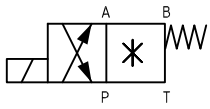
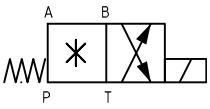
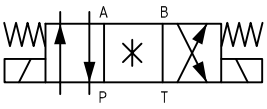
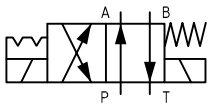
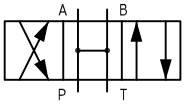
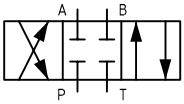
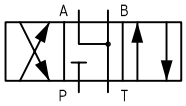
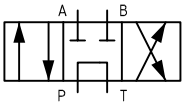
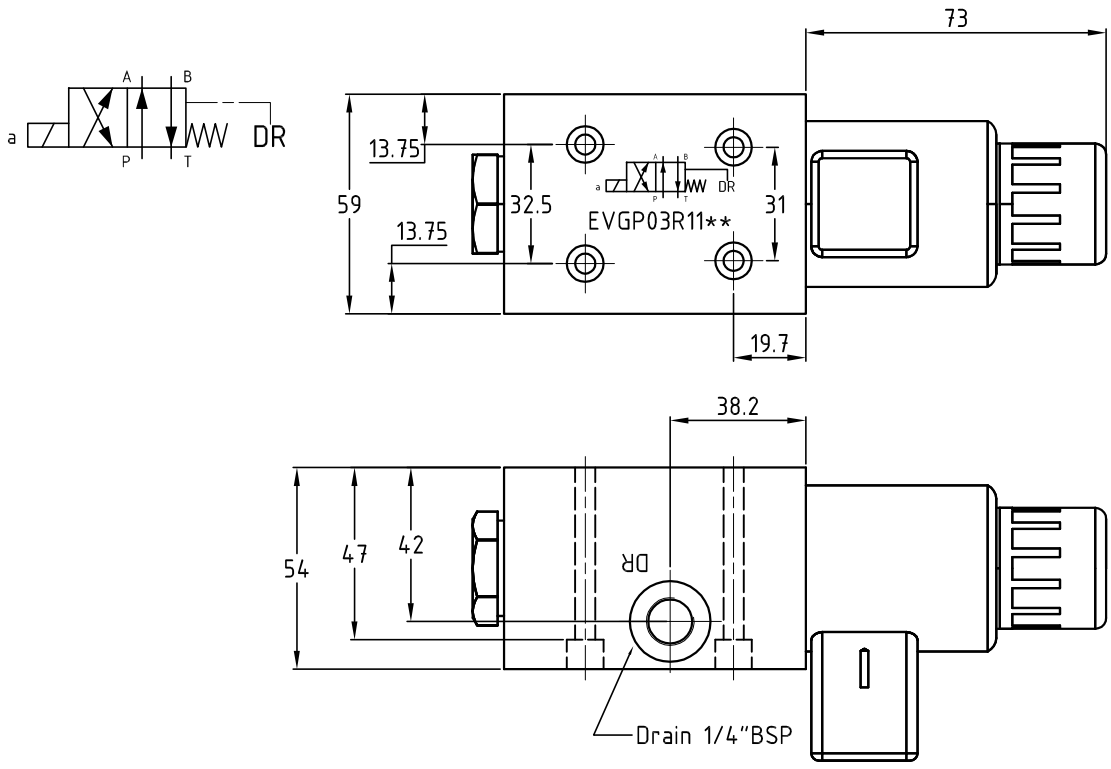
1	2	3	4
			

Tabella 02 Tipo cursore
Table 02 Spool type

1	2	3	4
			
5	6	7	

EVGP03R11

Elettrovalvola cetop 03 con Pmax in T 350 bar
Solenoid valve cetop 03 Pmax in T 350 bar



Pressione massima 350 bar in P A B T
Max pressure 350 bar in P A B T

Portata max. 50 lt/min
Max flow 50 lt/min

- Fluido da utilizzare: olio idraulico a norme DIN 51524 con viscosità compresa tra 30 e 100 mm²/s (cSt) a 40° C
- Filtrazione richiesta del fluido impiegato 25µ
- Temperatura fluido idraulico: da -20° a +75° C

- Fluid to be used: hydraulic oil to DIN 51524 standards with a viscosity between 30 and 100 mm²/s (cSt) to 40° C
- The fluid filtration requested is 25µ
- Temperature hydraulic fluid: -20° to +75° C

Esempio di ordinazione - ordering code

EVGP 03 R11 **

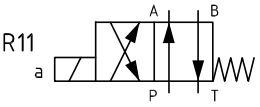
Elettrovalvola Cetop 03
Solenoid valve cetop 03

Cetop 03
Cetop 03

Tensione solenoide
Solenoid tension
12DC=12 VDC 14DC=14 VDC 24DC=24 VDC

Tipo di cursore
Spool type

R11



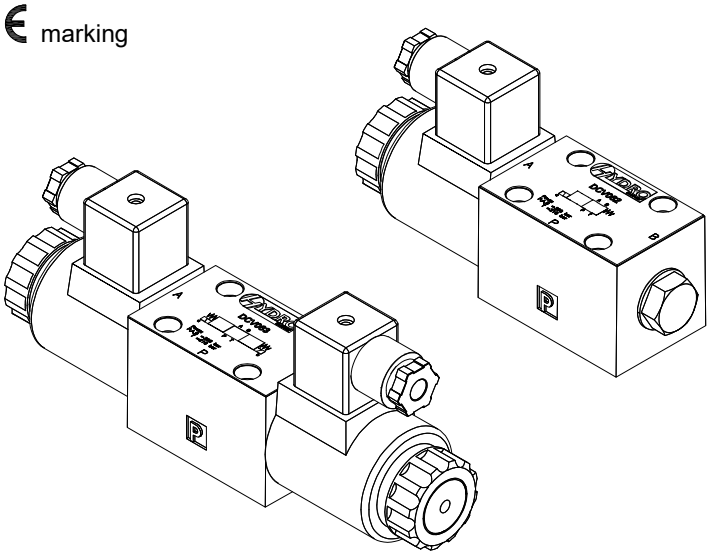
DCV06 **

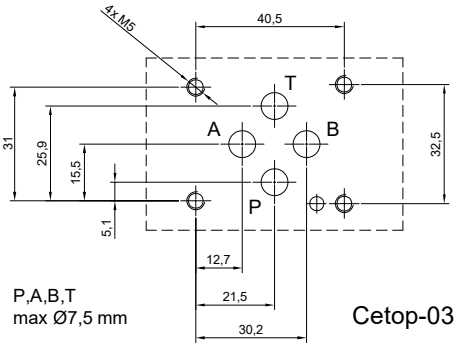
Elettrovalvole ON/OFF controllo direzionale, dirette, a spool, interfaccia Cetop-03

ON/OFF solenoid directional control valves, direct acting, spool type, Cetop-03 mounting

Rev. 00 (01/26)

CE marking





P,A,B,T
max Ø7,5 mm

Cetop-03 ISO-4401 Size 06

DATI TECNICI *TECHNICAL DATA*		
Portata max / Max flow-rate (*)	60 Lt/min	
Pressione max di lavoro / Max working pressure	P,A,B 350 bar	
Pressione max di lavoro / Max working pressure	T 210 bar DC 160 bar AC	
Temp. olio consigliata / Recommended oil temp.	-30 / +80 °C	
Filtrazione olio consigliata / Recommended oil filtration	20/18/15 ISO-4406	
Bobina (standard) / Coil (standard)	30 W ED 100%	
Tolleranza tensione bobina / Coil voltage tolerance	± 10% (nominal)	
Tempo di commutazione max / Max switching time	ON 45 - OFF 40 ms	
Classe di isolamento / Insulation class (std)	H	
Grado di protezione / Protection degree (std)	IP 65	
Peso / Weight	"2" 1,6 Kg	"3" 2,2 Kg
Corpo in Ghisa fosfatata / Phosphated Cast iron body		

(*) Vedere Curve caratteristiche
(*) See Performance curves

(Per OPZIONI non indicate nel codice di ordinazione, contattare direttamente i nostri uffici)
(For OPTIONS not indicated in the ordering code, please contact our offices directly)

Codice di ordinazione - *Ordering code*

DCV06 * *** * ** * * *

CETOP-03 (ISO-4401)

2 = 2 posizioni
2 = 2 positions
3 = 3 posizioni
3 = 3 positions

"Codice" schema idraulico
"Code" hydraulic scheme

E = connettore DIN43650 (std)
E = DIN43650 connector (std)
D = connettore Deutsch DT04-2P (a richiesta)
D = Deutsch DT04-2P connector (on request)
M = connettore AMP-Junior (a richiesta)
M = AMP-Junior connector (on request)

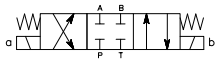
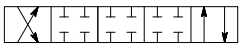
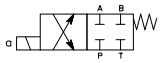
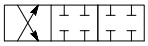
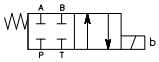
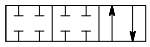
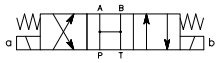
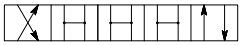
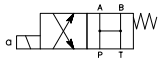
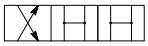
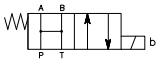
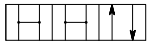
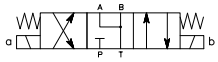
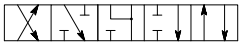
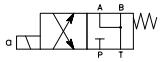
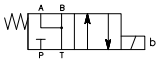
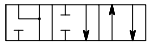
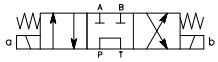
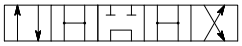
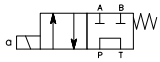
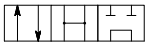
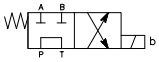
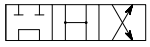
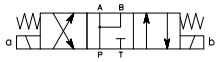
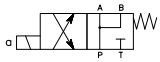
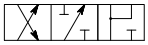
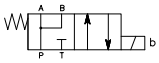
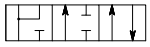
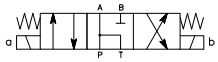
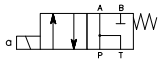
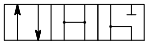
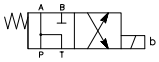
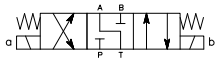
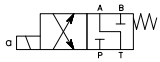
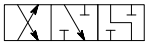
12 = 12 Vdc
24 = 24 Vdc
110 = 110 Vac (50 Hz)
220 = 220 Vac (50 Hz)

P = Perno a premere (std)
P = Push-type pin (std)
WP = Perno alto con protezione gomma
WP = Extended pin with rubber cover
TL = Spintore con rotazione e detent
TL = Push, twist and detent device

"Omettere" = NBR
"Omit" = NBR
V = FPM (Viton)
V = FPM (Viton)

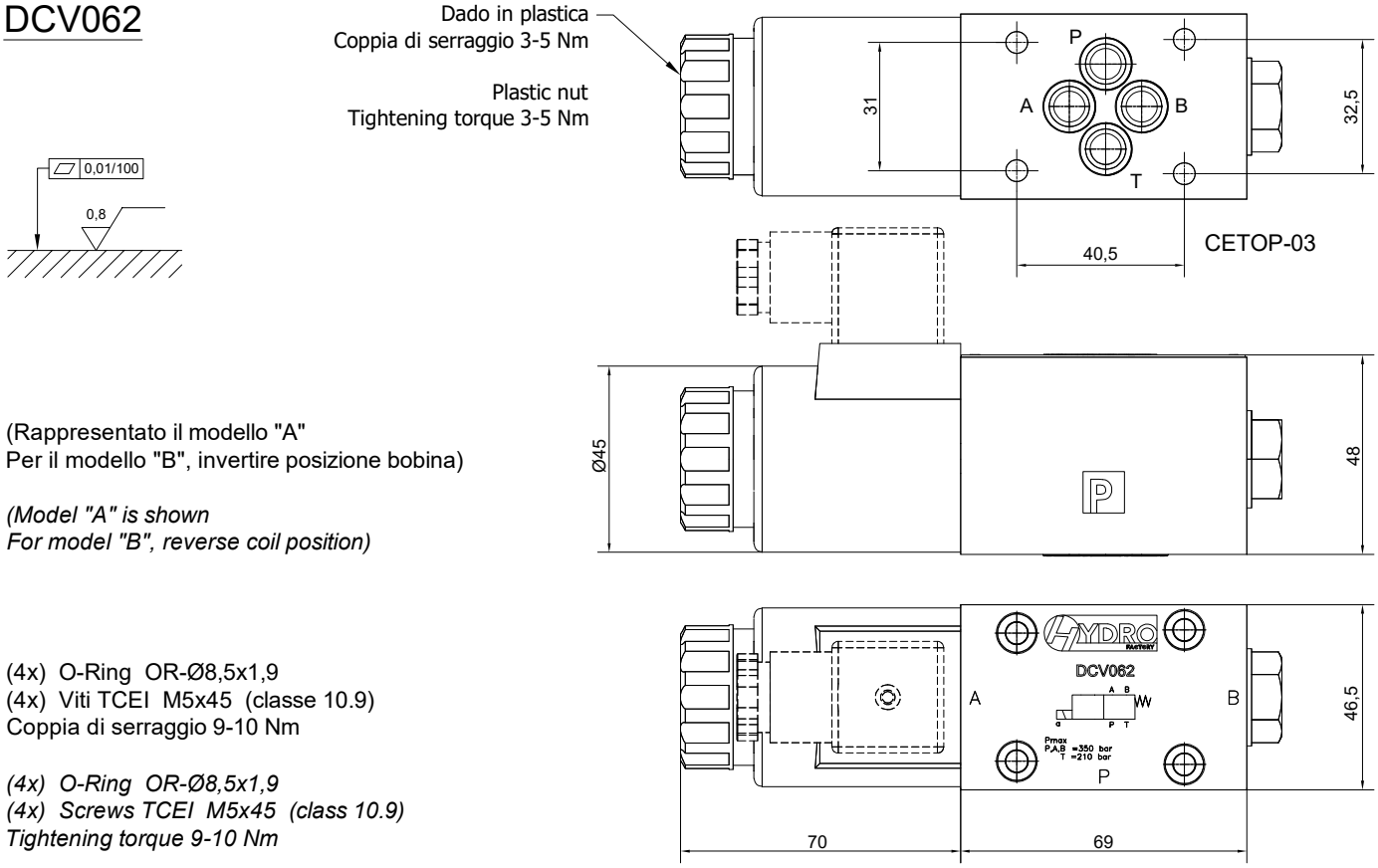
HYDRO FACTORY
Tailor-made Fluid Technology

DCV06 **

Modello Model	Codice ordinazione Ordering code	Schema idraulico Hydraulic scheme	Transizione Transition
DCV063	**Z11**		
DCV062	**Z11A**		
DCV062	**Z11B**		
DCV063	**H11**		
DCV062	**H11A**		
DCV062	**H11B**		
DCV063	**Y11**		
DCV062	**Y11A**		
DCV062	**Y11B**		
DCV063	**C11**		
DCV062	**C11A**		
DCV062	**C11B**		
DCV063	**P11**		
DCV062	**P11A**		
DCV062	**P11B**		
DCV063	**L11**		
DCV062	**L11A**		
DCV062	**L11B**		
DCV063	**N11**		
DCV062	**N11A**		
DCV062	**N11B**		
DCV062	**R11**		
DCV062	**R21**		
DCV062	**J15**		
DCV062	**J75**		

DCV06 **

DCV062



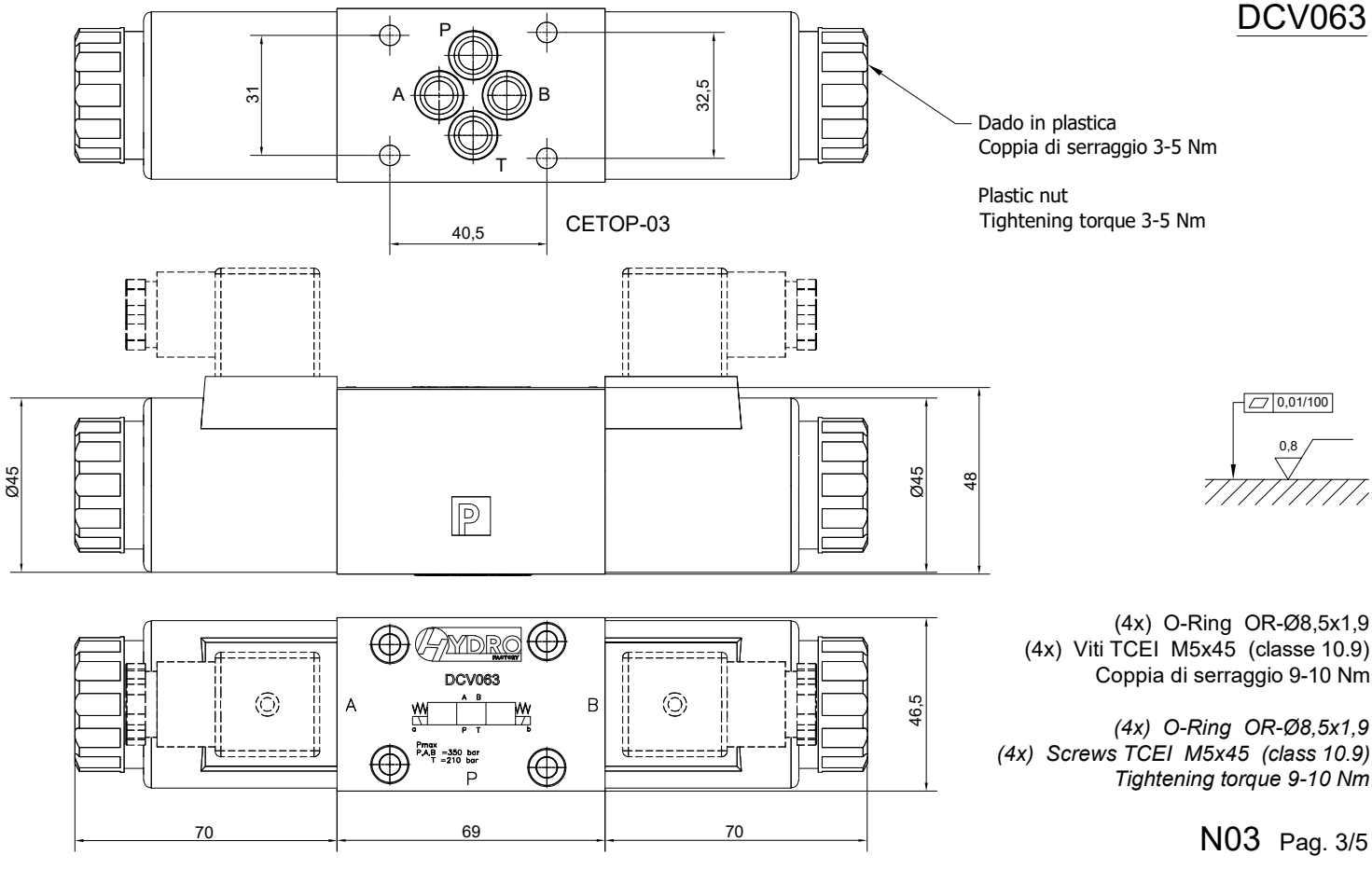
(Rappresentato il modello "A"
Per il modello "B", invertire posizione bobina)

(Model "A" is shown
For model "B", reverse coil position)

(4x) O-Ring OR-Ø8,5x1,9
(4x) Viti TCEI M5x45 (classe 10.9)
Coppia di serraggio 9-10 Nm

(4x) O-Ring OR-Ø8,5x1,9
(4x) Screws TCEI M5x45 (class 10.9)
Tightening torque 9-10 Nm

DCV063

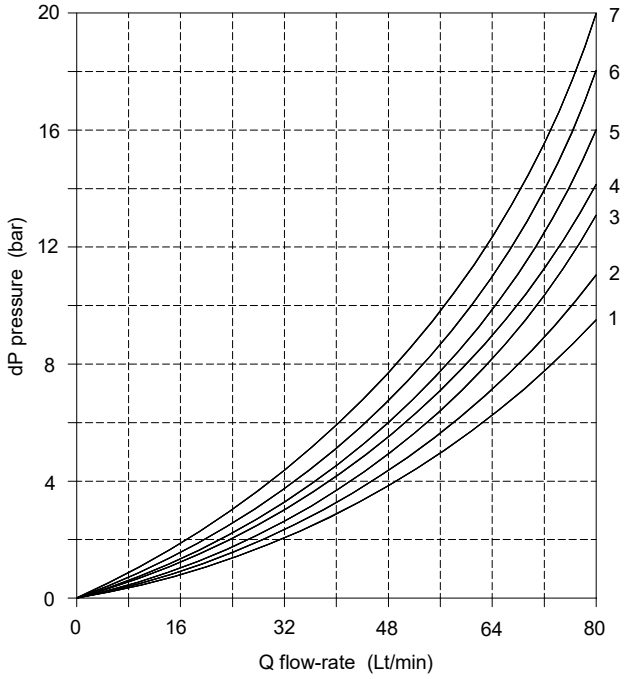


(4x) O-Ring OR-Ø8,5x1,9
(4x) Viti TCEI M5x45 (classe 10.9)
Coppia di serraggio 9-10 Nm

(4x) O-Ring OR-Ø8,5x1,9
(4x) Screws TCEI M5x45 (class 10.9)
Tightening torque 9-10 Nm

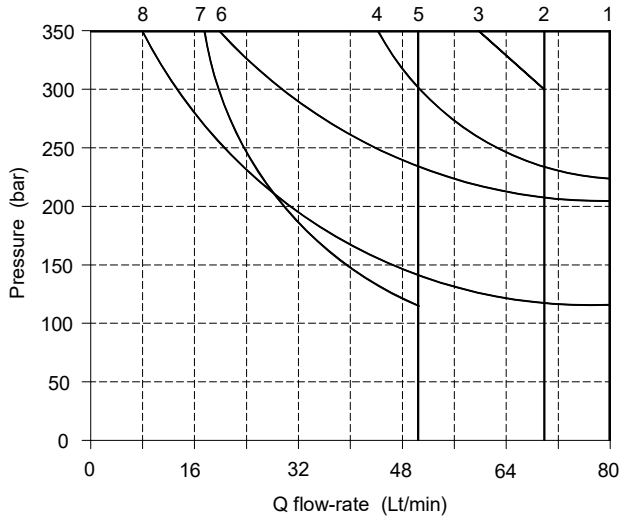
DCV06 **

Curve caratteristiche dP/Q (Olio ISO-VG-46 @ 40°C)
dP/Q characteristic curves *(Oil ISO-VG-46 @ 40°C)*



Codice *Code*	N° curva *Curve n°* Direzione / *Direction* P-A	P-B	A-T	B-T
Z11	5	5	3	3
H11	2	1	2	2
Y11	3	3	2	3
C11	7	7	4	4
P11	2	1	5	5
L11	3	5	3	3
N11	5	5	1	4
R11 ; J15	6	6	5	5
R21	3	3	5	3
J75	5	5	-	-

Limiti funzionali (Olio ISO-VG-46 @ 40°C) (Con entrambe le direzioni di flusso)
Functional limits *(Oil ISO-VG-46 @ 40°C)* *(With both flow directions)*

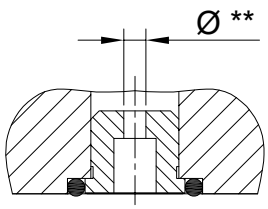


Codice *Code*	N° curva *Curve n°*
Z11	1
H11	5
Y11	6
C11	5
P11	2
L11	7
N11	4
R11 ; J15	3
R21	3
J75	8

Elementi calibrati di smorzamento (da ordinare separatamente) Inserti con foratura calibrata da utilizzare a scelta nelle porte P, A o B come elementi per lo smorzamento di eccessi di portata, causati da particolari condizioni operative.
Calibrated damping elements *(to be ordered separately)* *Inserts with calibrated holes for use in P, A or B ports as damping elements for excess overflow, caused by particular operating conditions.*

DCV06 - DAMP - **

- 08 = Ø 0,8 mm
- 10 = Ø 1,0 mm
- 12 = Ø 1,2 mm



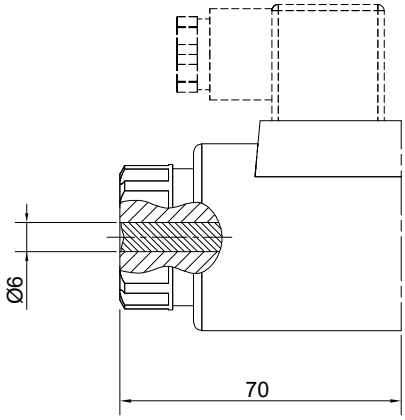
DCV06 **

Comandi manuali
Manual overrides

P (standard)

Comando manuale ad azione presidiata
Perno centrale a premere

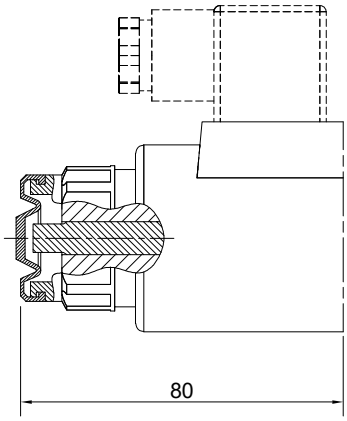
Manual override with supervised action
Push-type central pin



WP

Comando manuale ad azione presidiata
Perno centrale prolungato a premere, con copertura in gomma

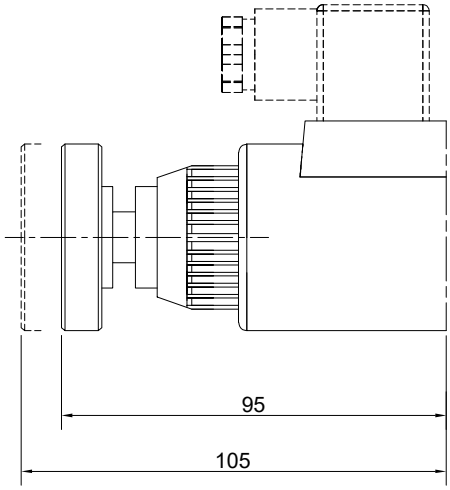
Manual override with supervised action
Extended push-type central pin, with rubber cover



TL

Comando manuale con ritenuta meccanica ad azione fissa non presidiata
Spintore a premere, con rotazione e detent meccanico

Manual override with mechanical detent with fixed unsupervised action
Push-type device, with twist and mechanical detent



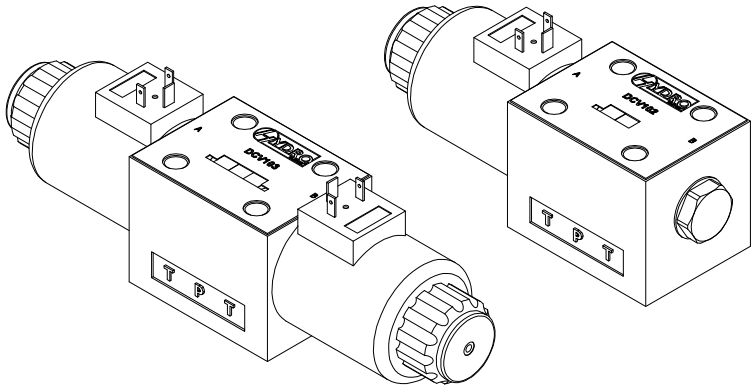
DCV10 **

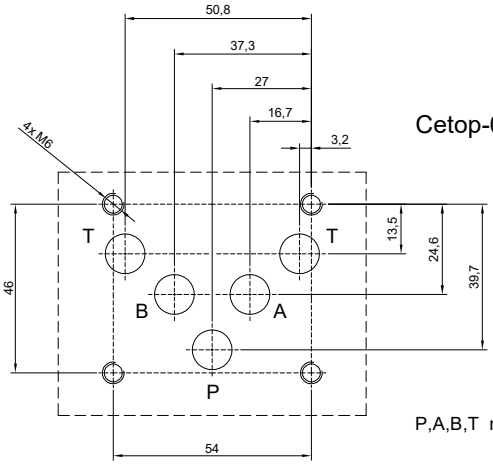
Elettrovalvole ON/OFF controllo direzionale, dirette, a spool, interfaccia Cetop-05

ON/OFF solenoid directional control valves, direct acting, spool type, Cetop-05 mounting

CE marking

Rev. 00 (05/26)





Cetop-05 ISO-4401 Size 10

P,A,B,T max Ø11,2 mm

DATI TECNICI *TECHNICAL DATA*		
Portata max / Max flow-rate (*)		120 Lt/min
Pressione max di lavoro / Max working pressure		P,A,B 315 bar
Pressione max di lavoro / Max working pressure		T 160 bar
Temp. olio consigliata / Recommended oil temp.		-30 / +80 °C
Filtrazione olio consigliata / Recommended oil filtration		20/18/15 ISO-4406
Bobina (standard) / Coil (standard)		40 W ED 100%
Tolleranza tensione bobina / Coil voltage tolerance		± 10% (nominal)
Tempo di commutazione max / Max switching time		ON 150 - OFF 100 ms
Classe di isolamento / Insulation class (std)		H
Grado di protezione / Protection degree (std)		IP 65
Peso / Weight	"2" 4,6 Kg	"3" 6,1 Kg
Corpo in Ghisa fosfatata / Phosphated Cast iron body		

(*) Vedere Curve caratteristiche
(*) See Performance curves

(Per OPZIONI non indicate nel codice di ordinazione, contattare direttamente i nostri uffici)
(For OPTIONS not indicated in the ordering code, please contact our offices directly)

Codice di ordinazione - *Ordering code*

DCV10 * *** * ** P *

CETOP-05 (ISO-4401)

2 = 2 posizioni
2 = 2 positions
3 = 3 posizioni
3 = 3 positions

"Codice" schema idraulico
"Code" hydraulic scheme

E = connettore DIN43650 (std)
E = DIN43650 connector (std)
D = connettore Deutsch DT04-2P (a richiesta)
D = Deutsch DT04-2P connector (on request)
M = connettore AMP-Junior (a richiesta)
M = AMP-Junior connector (on request)

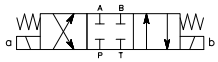
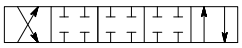
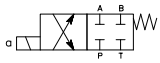
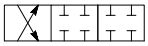
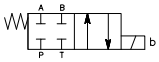
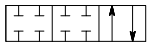
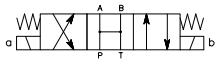
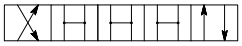
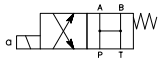
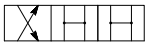
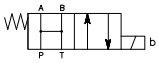
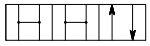
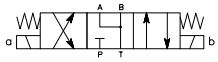
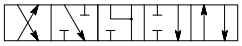
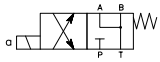
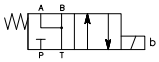
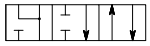
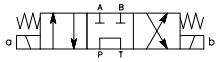
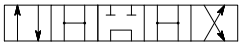
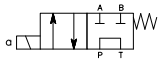
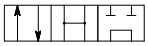
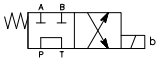
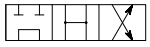
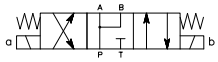
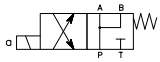
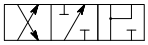
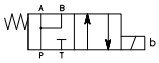
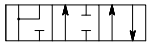
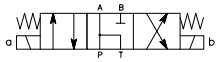
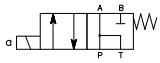
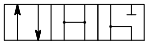
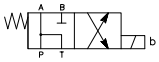
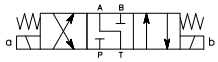
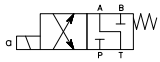
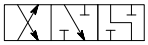
12 = 12 Vdc
24 = 24 Vdc
110 = 110 Vac (50 Hz)
220 = 220 Vac (50 Hz)

P = Perno a premere (std)
P = Push-type pin (std)

"Omettere" = NBR
"Omit" = NBR
V = FPM (Viton)
V = FPM (Viton)

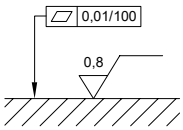
HYDRO FACTORY
Tailor-made Fluid Technology

DCV10 **

Modello Model	Codice ordinazione Ordering code	Schema idraulico Hydraulic scheme	Transizione Transition
DCV103	**Z11**		
DCV102	**Z11A**		
DCV102	**Z11B**		
DCV103	**H11**		
DCV102	**H11A**		
DCV102	**H11B**		
DCV103	**Y11**		
DCV102	**Y11A**		
DCV102	**Y11B**		
DCV103	**C11**		
DCV102	**C11A**		
DCV102	**C11B**		
DCV103	**P11**		
DCV102	**P11A**		
DCV102	**P11B**		
DCV103	**L11**		
DCV102	**L11A**		
DCV102	**L11B**		
DCV103	**N11**		
DCV102	**N11A**		
DCV102	**N11B**		
DCV102	**R11**		
DCV102	**R21**		
DCV102	**J15**		
DCV102	**J75**		

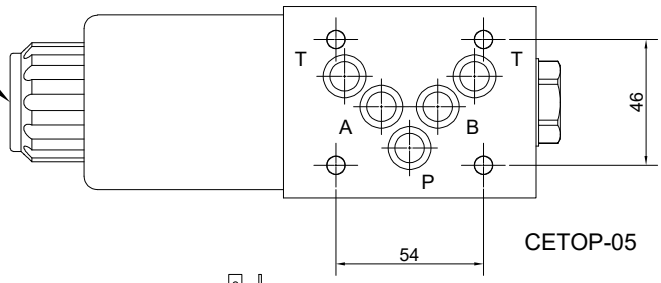
DCV10 **

DCV102

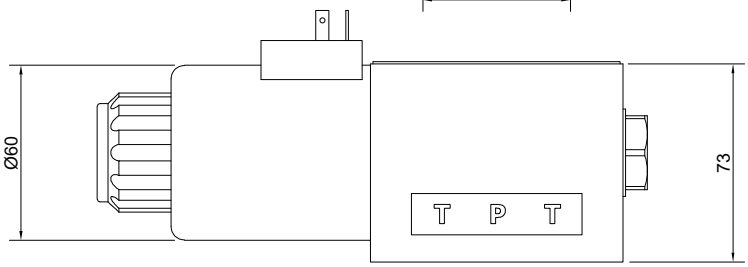


Dado in plastica
Coppia di serraggio 4-6 Nm

Plastic nut
Tightening torque 4-6 Nm

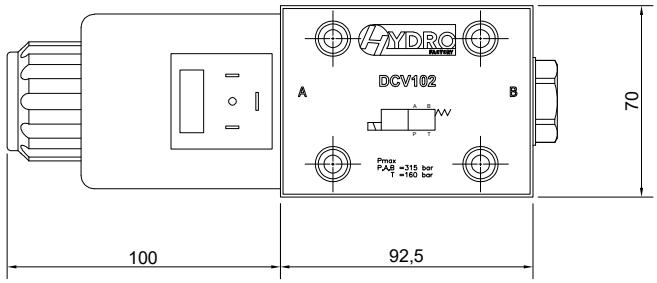


CETOP-05



(Rappresentato il modello "A"
Per il modello "B", invertire posizione bobina)

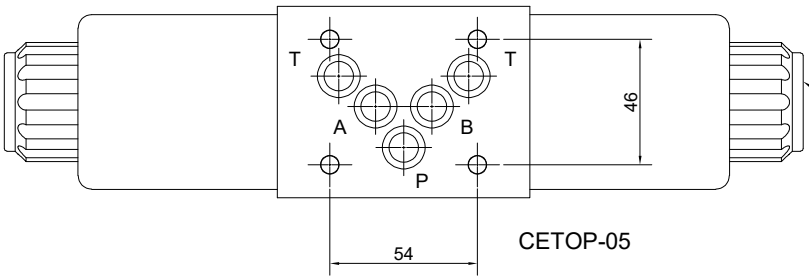
(Model "A" is shown
For model "B", reverse coil position)



(5x) O-Ring OR-Ø12,2x1,9
(4x) Viti TCEI M6x40 (classe 10.9)
Coppia di serraggio 14-16 Nm

(5x) O-Ring OR-Ø12,2x1,9
(4x) Screws TCEI M6x40 (class 10.9)
Tightening torque 14-16 Nm

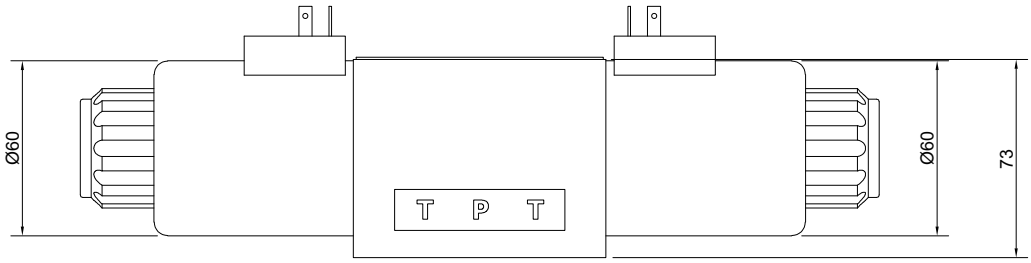
DCV103

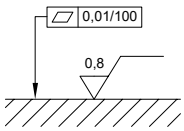


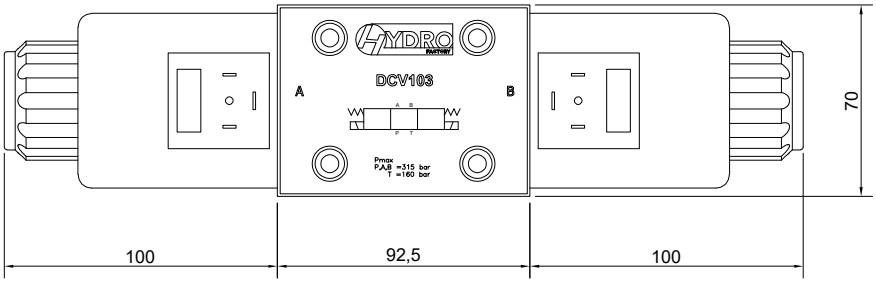
CETOP-05

Dado in plastica
Coppia di serraggio 4-6 Nm

Plastic nut
Tightening torque 4-6 Nm





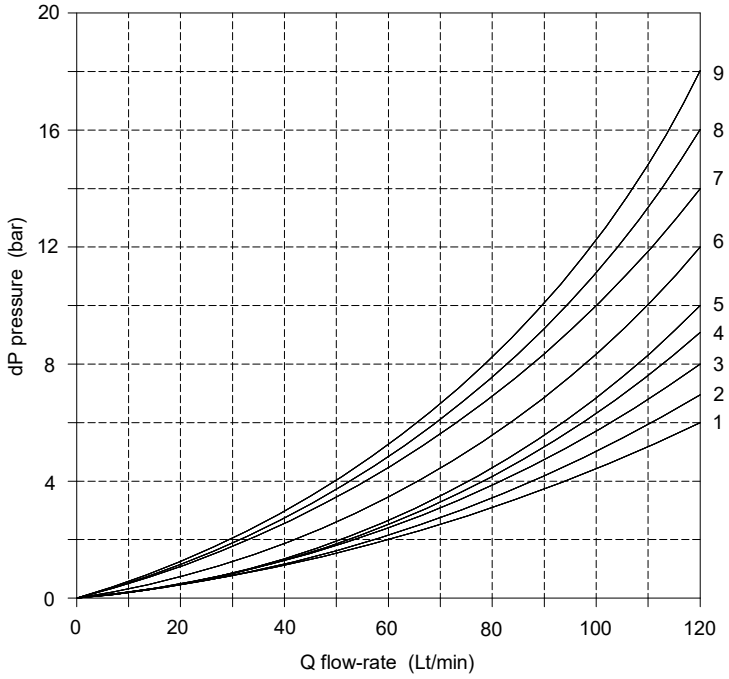


(5x) O-Ring OR-Ø12,2x1,9
(4x) Viti TCEI M6x40 (classe 10.9)
Coppia di serraggio 14-16 Nm

(5x) O-Ring OR-Ø12,2x1,9
(4x) Screws TCEI M6x40 (class 10.9)
Tightening torque 14-16 Nm

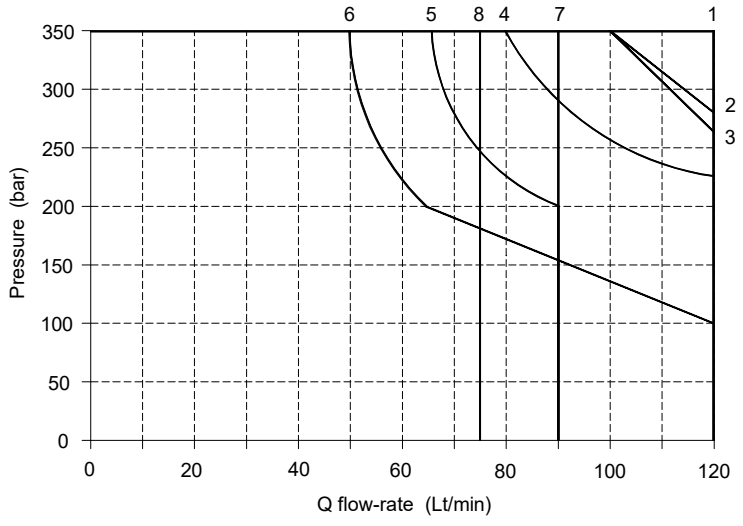
DCV10 **

Curve caratteristiche dP/Q (Olio ISO-VG-46 @ 40°C)
dP/Q characteristic curves *(Oil ISO-VG-46 @ 40°C)*



Codice *Code*	N° curva *Curve n°* Direzione / *Direction* P-A	P-B	A-T	B-T
Z11	3	2	5	6
H11	1	1	6	6
Y11	3	3	6	8
C11	4	4	9	9
P11	1	1	5	5
L11	2	3	6	7
N11	3	3	6	6
R11 ; J15	2	2	4	5
R21	1	2	4	5
J75	5	5	-	-

Limiti funzionali (Olio ISO-VG-46 @ 40°C) (Con entrambe le direzioni di flusso)
Functional limits *(Oil ISO-VG-46 @ 40°C)* *(With both flow directions)*

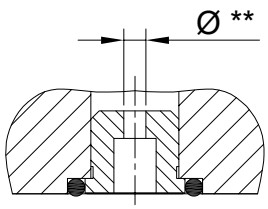


Codice *Code*	N° curva *Curve n°*
Z11	3
H11	1
Y11	2
C11	7
P11	8
L11	5
N11	4
R11 ; J15	1
R21	1
J75	6

Elementi calibrati di smorzamento (da ordinare separatamente) Inserti con foratura calibrata da utilizzare a scelta nelle porte P, A o B come elementi per lo smorzamento di eccessi di portata, causati da particolari condizioni operative.
Calibrated damping elements *(to be ordered separately)* *Inserts with calibrated holes for use in P, A or B ports as damping elements for excess overflow, caused by particular operating conditions.*

DCV10 - DAMP - **

- 08 = Ø 0,8 mm
- 10 = Ø 1,0 mm
- 12 = Ø 1,2 mm



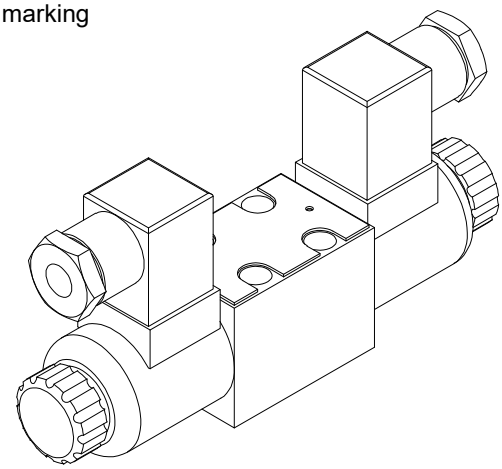
DCV04 **

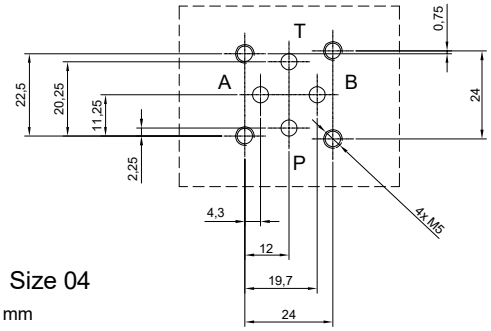
Elettrovalvole ON/OFF controllo direzionale, dirette, a spool, interfaccia Cetop-02

ON/OFF solenoid directional control valves, direct acting, spool type, Cetop-02 mounting

Rev. 00 (06/26)

CE marking





Cetop-02 ISO-4401 Size 04

P,A,B,T max Ø4,5 mm

DATI TECNICI *TECHNICAL DATA*	
Portata max / Max flow-rate (*)	25 Lt/min
Pressione max di lavoro / Max working pressure	P,A,B 280 bar
Pressione max di lavoro / Max working pressure	T 120 bar
Temp. olio consigliata / Recommended oil temp.	-30 / +80 °C
Filtrazione olio consigliata / Recommended oil filtration	20/18/15 ISO-4406
Bobina (standard) / Coil (standard)	25 W ED 100%
Tolleranza tensione bobina / Coil voltage tolerance	± 10% (nominal)
Tempo di commutazione max / Max switching time	ON 100 - OFF 100 ms
Classe di isolamento / Insulation class (std)	H
Grado di protezione / Protection degree (std)	IP 65
Peso / Weight	"3" 1,0 Kg
Corpo in Ghisa fosfatata / Phosphated Cast iron body	

(*) Vedere Curve caratteristiche
(*) See Performance curves

(Per OPZIONI non indicate nel codice di ordinazione, contattare direttamente i nostri uffici)
(For OPTIONS not indicated in the ordering code, please contact our offices directly)

Codice di ordinazione - *Ordering code*

DCV04 * *** * ** P *

CETOP-02 (ISO-4401)

3 = 3 posizioni
3 = 3 positions

"Codice" schema idraulico
"Code" hydraulic scheme

E = connettore DIN43650 (std)
E = DIN43650 connector (std)

12 = 12 Vdc

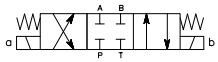
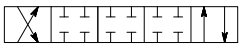
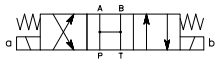
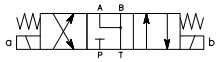
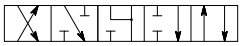
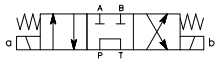
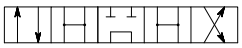
24 = 24 Vdc

P = Perno a premere (std)
P = Push-type pin (std)

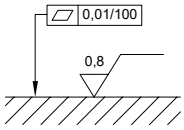
"Omettere" = NBR
"Omit" = NBR

V = FPM (Viton)
V = FPM (Viton)

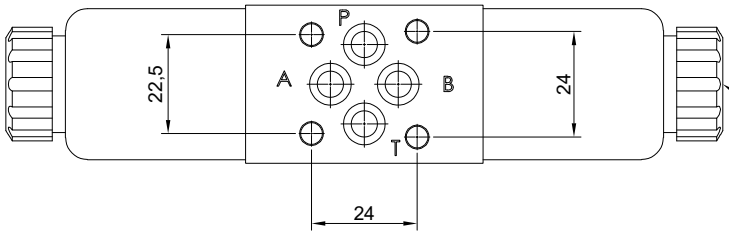
DCV04 **

Modello Model	Codice ordinazione Ordering code	Schema idraulico Hydraulic scheme	Transizione Transition
DCV043	**Z11**		
DCV043	**H11**		
DCV043	**Y11**		
DCV043	**C11**		

DCV043

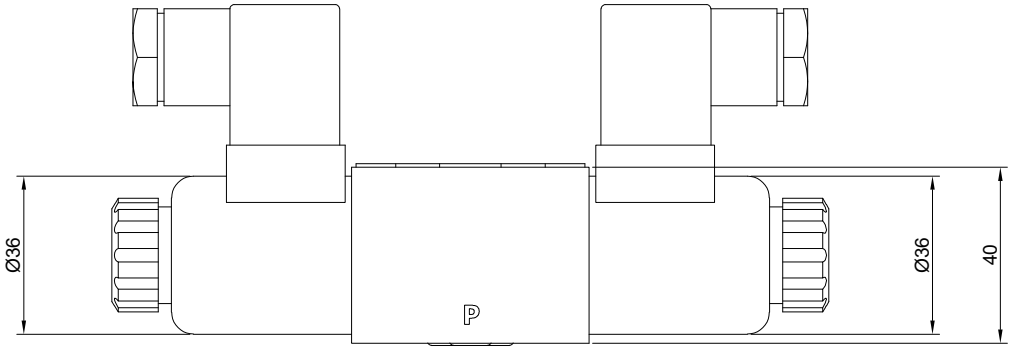


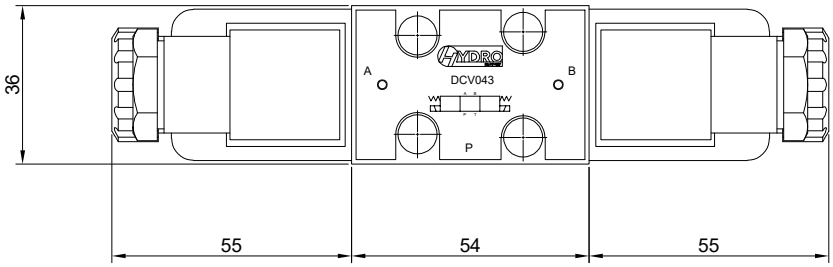
CETOP-02



Dado in plastica
Coppia di serraggio 3-5 Nm

Plastic nut
Tightening torque 3-5 Nm



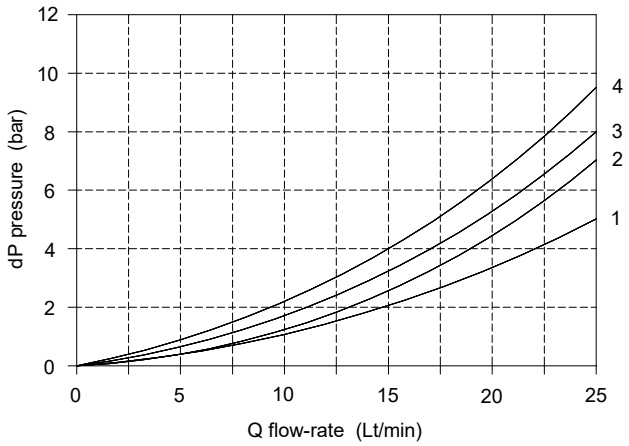


(4x) O-Ring OR-Ø6,07x1,78
(4x) Viti TCEI M5x35 (classe 10.9)
Coppia di serraggio 6-8 Nm

(4x) O-Ring OR-Ø6,07x1,78
(4x) Screws TCEI M5x35 (class 10.9)
Tightening torque 6-8 Nm

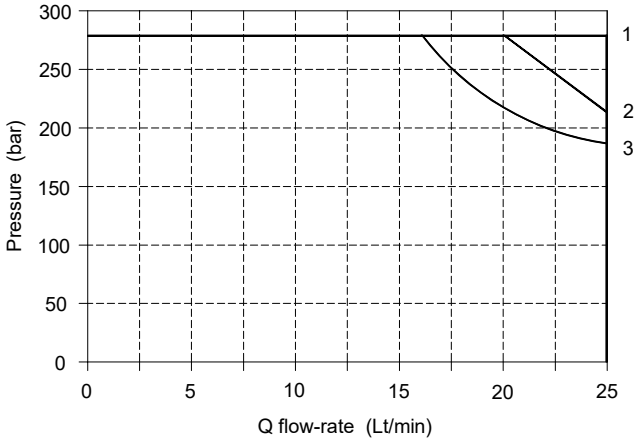
DCV04 **

Curve caratteristiche dP/Q (Olio ISO-VG-46 @ 40°C)
dP/Q characteristic curves *(Oil ISO-VG-46 @ 40°C)*



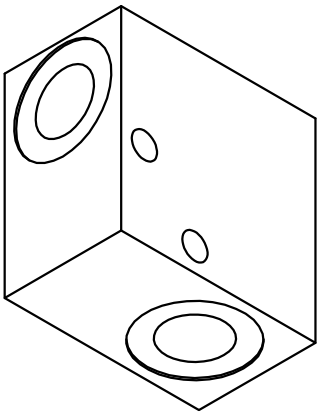
Codice *Code*	N° curva *Curve n°* Direzione / *Direction* P-A	P-B	A-T	B-T
Z11	3	3	2	2
H11	1	1	1	1
Y11	4	4	2	2
C11	2	2	3	3

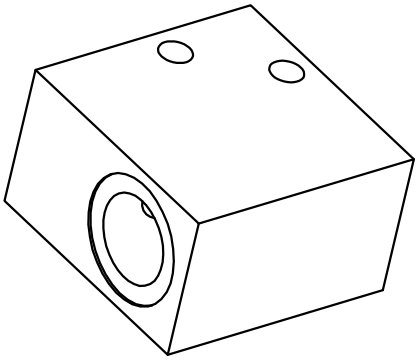
Limiti funzionali (Olio ISO-VG-46 @ 40°C) (Con entrambe le direzioni di flusso)
Functional limits *(Oil ISO-VG-46 @ 40°C)* *(With both flow directions)*



Codice *Code*	N° curva *Curve n°*
Z11	1
H11	1
Y11	3
C11	2

Valvole di sicurezza
Safety valves

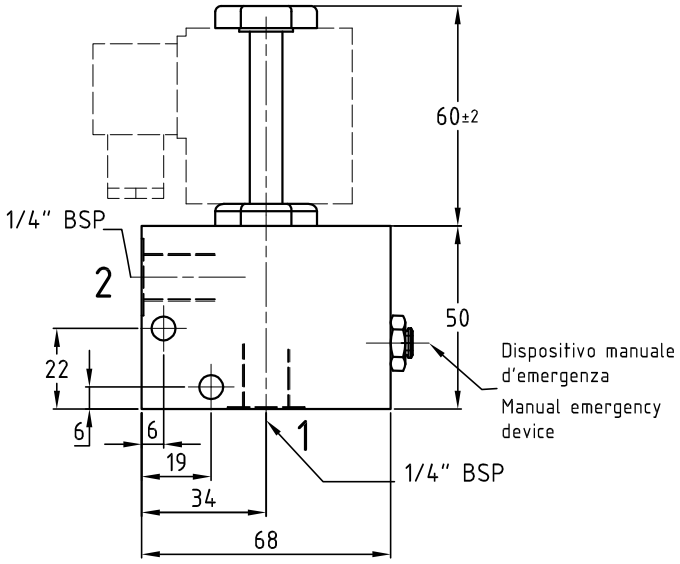


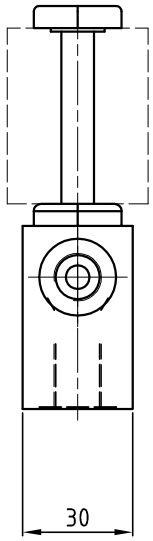


Sezione O
Section O

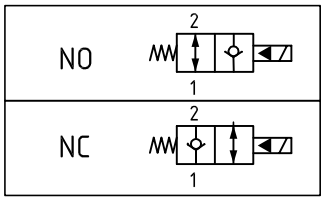
ESV*14/38

Valvola elettrica a 2 Vie
Two ways electrical valve





Hydraulic diagram



Codice Code	Attacchi Ports	Q max Lt/min	P max bar
ESV-14	1/4" BSP	40	250 alluminio/alluminium
ESV-38	3/8" BSP		350 acciaio/steel

- Fluido da utilizzare: olio idraulico a norme DIN 51524 con viscosità compresa tra 30 e 100 mm^2/s (cSt) a 40° C
- Filtrazione richiesta del fluido impiegato 25 µ
- Temperatura fluido idraulico: da -20° a +75° C

- Fluid to be used: hydraulic oil to DIN 51524 standards with a viscosity between 30 and 100 mm^2/s (cSt) to 40° C
- The fluid filtration requested is 25 µ
- Temperature hydraulic fluid: -20° to +75° C

Esempio di ordinazione - ordering code

ESV * ** ** - **

Valvola elettrica 2 vie
Electrical valve 2/2

A = Corpo in alluminio
A = Aluminium body

S = Corpo in acciaio
S = Steel body

14 = Attacchi 1/4" BSP
14 = Ports 1/4" BSP

38 = Attacchi 3/8" BSP
38 = Ports 3/8" BSP

Tensione solenodie
Solenoid coil

12DC=12 VDC 24DC=24 VDC
24AC=24 VAC-50/60Hz

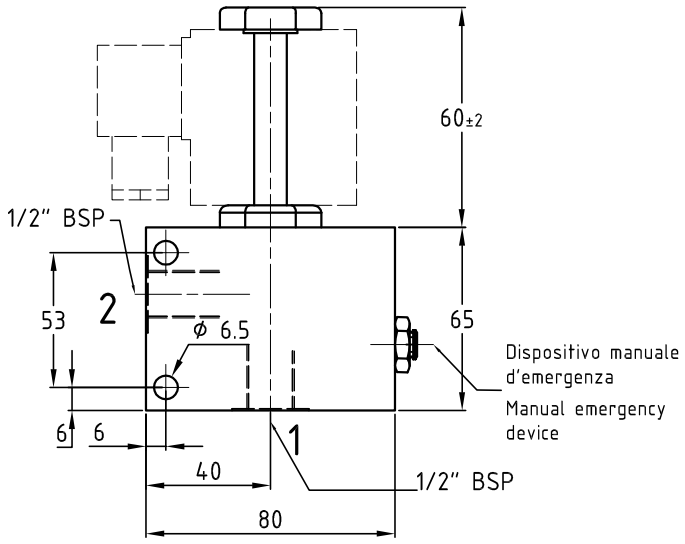
110AC=110 VAC-50/60Hz
220AC=220 VAC-50/60Hz

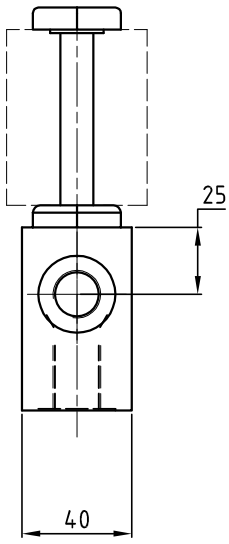
NO = normalmente aperto
NO = normally open

NC = normalmente chiuso
NC = normally closed

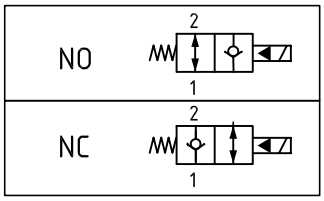
ESV*12/34

Valvola elettrica a 2 Vie
Two ways electrical valve





Hydraulic diagram



Codice Code	Attacchi Ports	Q max Lt/min	P max bar
ESV-12	1/2" BSP	70	250 alluminio/alluminium
ESV-34	3/4" BSP		350 acciaio/steel

- Fluido da utilizzare: olio idraulico a norme DIN 51524 con viscosità compresa tra 30 e 100 mm²/s (cSt) a 40° C
- Filtrazione richiesta del fluido impiegato 25 µ
- Temperatura fluido idraulico: da -20° a +75° C

- Fluid to be used: hydraulic oil to DIN 51524 standards with a viscosity between 30 and 100 mm²/s (cSt) to 40° C
- The fluid filtration requested is 25 µ
- Temperature hydraulic fluid: -20° to +75° C

Esempio di ordinazione - ordering code

ESV * ** ** - **

Valvola elettrica 2 vie
Electrical valve 2/2

A = Corpo in alluminio
A = Aluminium body

S = Corpo in acciaio
S = Steel body

12 = Attacchi 1/2" BSP
12 = Ports 1/2" BSP

34 = Attacchi 3/4" BSP
34 = Ports 3/4" BSP

Tensione solenodie
Solenoid coil

12DC=12 VDC 24DC=24 VDC
24AC=24 VAC-50/60Hz

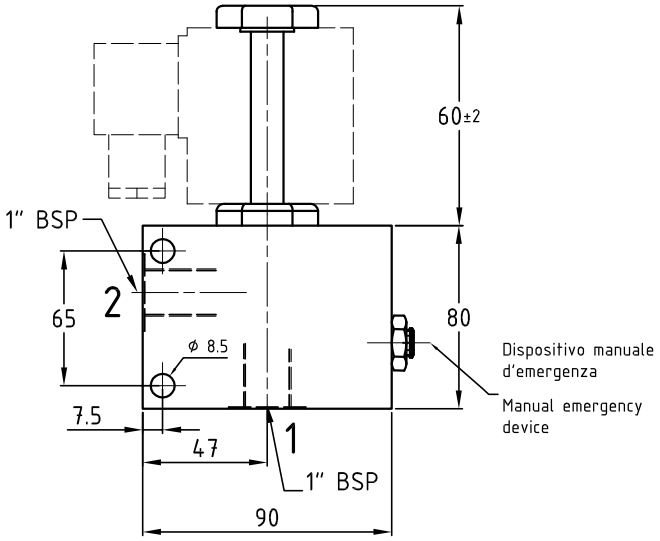
110AC=110 VAC-50/60Hz
220AC=220 VAC-50/60Hz

NO = normalmente aperto
NO = normally open

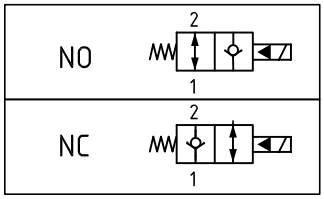
NC = normalmente chiuso
NC = normally closed

ESV*100

Valvola elettrica a 2 Vie
Two ways electrical valve



Hydraulic diagram



Codice Code	Attacchi Ports	Q max Lt/min	P max bar
ESV-100	1" BSP	150	250 alluminio/alluminium 350 acciaio/steel

- Fluido da utilizzare: olio idraulico a norme DIN 51524 con viscosità compresa tra 30 e 100 mm²/s (cSt) a 40° C
- Filtrazione richiesta del fluido impiegato 25 µ
- Temperatura fluido idraulico: da -20° a +75° C

- Fluid to be used: hydraulic oil to DIN 51524 standards with a viscosity between 30 and 100 mm²/s (cSt) to 40° C
- The fluid filtration requested is 25 µ
- Temperature hydraulic fluid: -20° to +75° C

Esempio di ordinazione - ordering code

ESV * 100 ** - **

Valvola elettrica 2 vie
Electrical valve 2/2

A = Corpo in alluminio
A = Aluminium body

S = Corpo in acciaio
S = Steel body

100 = Attacchi 1" BSP
100 = Ports 1" BSP

Tensione solenodie
Solenoid coil

12DC=12 VDC 24DC=24 VDC
24AC=24 VAC-50/60Hz

110AC=110 VAC-50/60Hz
220AC=220 VAC-50/60Hz

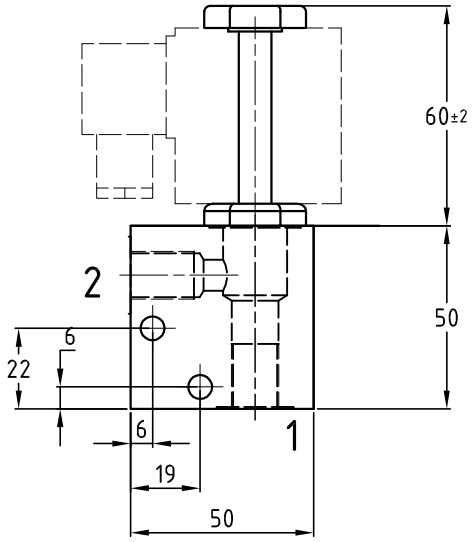
NO = normalmente aperto
NO = normally open

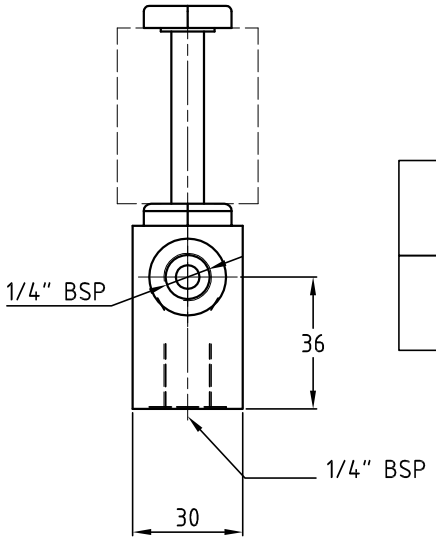
NC = normalmente chiuso
NC = normally closed

ESV*SE14/38

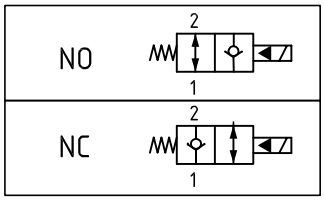
NEW

Valvola elettrica a 2 Vie
Two ways electrical valve





Hydraulic diagram



Codice Code	Attacchi Ports	Q max Lt/min	P max bar
ESVSE-14	1/4" BSP	40	250 alluminio/alluminium
ESVSE38	3/8" BSP		350 acciaio/steel

- Fluido da utilizzare: olio idraulico a norme DIN 51524 con viscosità compresa tra 30 e 100 mm²/s (cSt) a 40° C
- Filtrazione richiesta del fluido impiegato 25 µ
- Temperatura fluido idraulico: da -20° a +75° C

- Fluid to be used: hydraulic oil to DIN 51524 standards with a viscosity between 30 and 100 mm²/s (cSt) to 40° C
- The fluid filtration requested is 25 µ
- Temperature hydraulic fluid: -20° to +75° C

Esempio di ordinazione - ordering code

ESVSE * ** ** - **

Valvola elettrica 2 vie
Electrical valve 2/2

A = Corpo in alluminio
A = Aluminium body

S = Corpo in acciaio
S = Steel body

14 = Attacchi 1/4" BSP
14 = Ports 1/4" BSP

38 = Attacchi 3/8" BSP
38 = Ports 3/8" BSP

Vedere sez. P
See section P

NO = normalmente aperto
NO = normally open

NC = normalmente chiuso
NC = normally closed

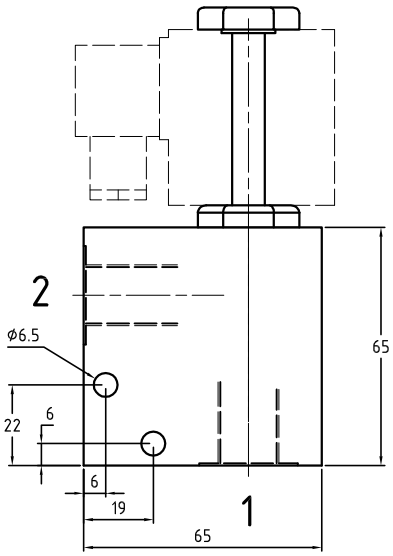
Tensione solenodie
Solenoid coil

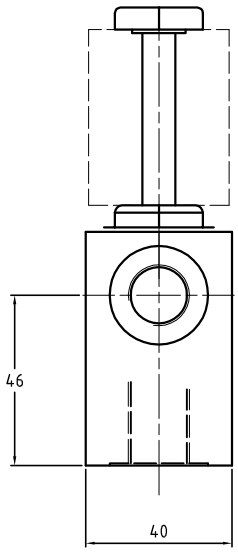
12DC=12 VDC 24DC=24 VDC
24AC=24 VAC-50/60Hz

110AC=110 VAC-50/60Hz
220AC=220 VAC-50/60Hz

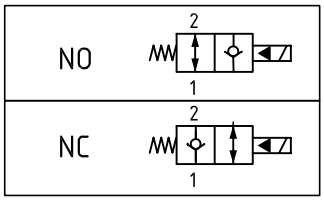
ESV*SE **

Valvola elettrica a 2 Vie
Two ways electrical valve





Hydraulic diagram



Codice Code	Attacchi Ports	Q max Lt/min	P max bar
ESV*SE12	1/2" BSP	70	250 alluminio/alluminium
ESV+SE34	3/4" BSP		350 acciaio/steel

- Fluido da utilizzare: olio idraulico a norme DIN 51524 con viscosità compresa tra 30 e 100 mm^2/s (cSt) a 40° C
- Filtrazione richiesta del fluido impiegato 25 µ
- Temperatura fluido idraulico: da -20° a +75° C

- Fluid to be used: hydraulic oil to DIN 51524 standards with a viscosity between 30 and 100 mm^2/s (cSt) to 40° C
- The fluid filtration requested is 25 µ
- Temperature hydraulic fluid: -20° to +75° C

Esempio di ordinazione - ordering code

ESV * SE ** ** - **

Valvola elettrica 2 vie
Electrical valve 2/2

A = Corpo in alluminio
A = Aluminium body

S = Corpo in acciaio
S = Steel body

12 = Attacchi 1/2" BSP
12 = Ports 1/2" BSP

34 = Attacchi 3/4" BSP
34 = Ports 3/4" BSP

Tensione solenodie
Solenoid coil

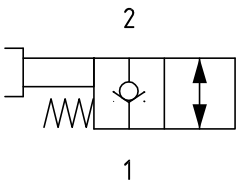
12DC=12 VDC 24DC=24 VDC
24AC=24 VAC-50/60Hz

110AC=110 VAC-50/60Hz
220AC=220 VAC-50/60Hz

NO = normalmente aperto
NO = normally open

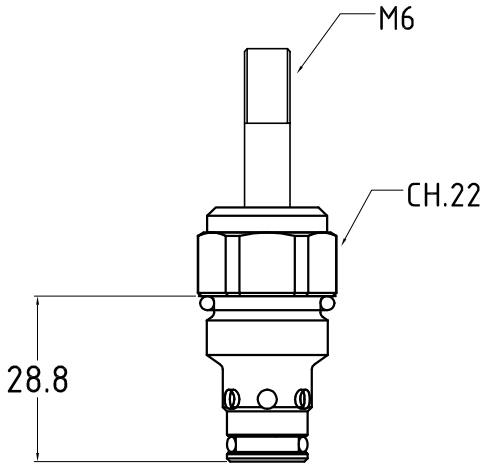
NC = normalmente chiuso
NC = normally closed

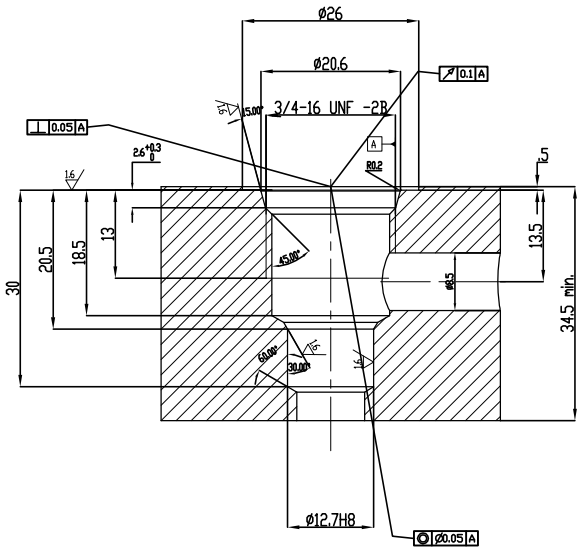
Hydraulic diagram



VMT 08/2

Valvola direzionale comando manuale a tirare
Directional valve pull to open





- Portata max Max flow		60 l/min
- Pressione max Max pressure		350 bar 5000 psi
- Coppia serraggio installation torque	Nm	27/30

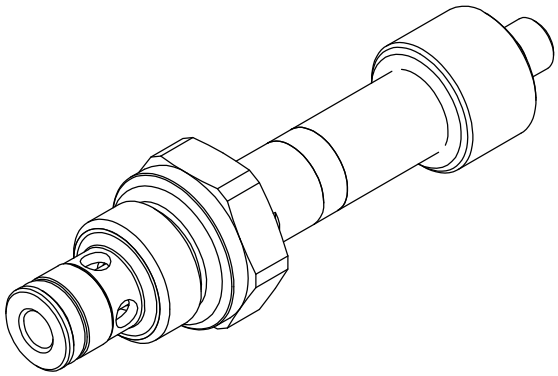
- Fluido da utilizzare: olio idraulico a norme DIN 51524 con viscosità compresa tra 30 e 100 mm²/s (cSt) a 40° C
- Filtrazione richiesta del fluido impiegato 25µ
- Temperatura esercizio: da -20° a +90° C

- Fluid to be used: hydraulic oil to DIN 51524 standards with a viscosity between 30 and 100 mm²/s (cSt) to 40° C
- The fluid filtration requested is 25µ
- Exercise Temperature: -20° to +75° C

Esempio di ordinazione - Ordering code

VMT 08 02

Cartucce elettriche
Electrical Cartridges



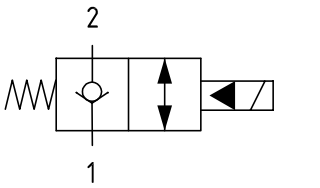
Sezione P
Section P

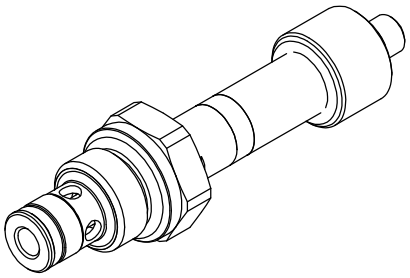
www.hydrofactory.it

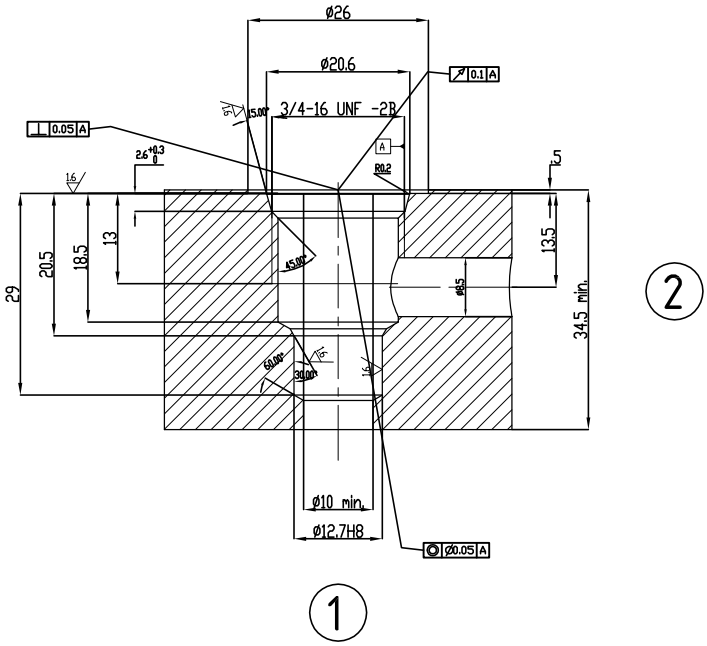
ESC40 NC

Cartuccia elettrica 2/2 SAE 08.02
Electrical cartridge 2/2 SAE 08.02

Hydraulic diagram

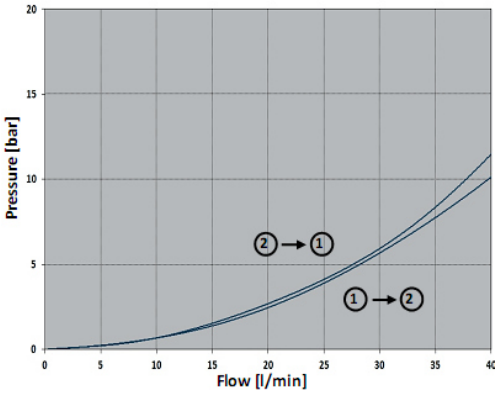






- Fluido da utilizzare: olio idraulico a norme DIN 51524 con viscosità compresa tra 30 e 100 mm²/s (cSt) a 40° C
- Filtrazione richiesta del fluido impiegato 25µ
- Temperatura fluido idraulico: da -30° a +110° C

- Fluid to be used: hydraulic oil to DIN 51524 standards with a viscosity between 30 and 100 mm²/s (cSt) to 40° C
- The fluid filtration requested is 25µ
- Temperature hydraulic fluid: -30° to +110° C



Esempio di ordinazione - Ordering code

ESC 40 NC MO

- ESC: Valvola elettrica sae 08.02 / Electrical cartridge sae 08.02
- NC: NC = Normalmente chiusa / NC = Normally close
- MO: Comando manuale a richiesta (spinta) / Manual Override on req. (push & knob)

ESC40 NC

Cartuccia elettrica 2/2 SAE 08.02
Electrical cartridge 2/2 SAE 08.02

Caratteristiche tecniche:
- Tutte le superfici esterne sono zincate e resistenti alla corrosione.
- Tutte le parti della valvola sono realizzate in acciaio ad alta resistenza.
- L'otturatore è temprato e rettificato per garantire minima usura e lunga durata.
- Le guarnizioni della bobina proteggono il sistema solenoide.
- Comando manuale opzione.
- Cavity SAE 08.02

Dati tecnici:
- Pressione massima di esercizio: 350 bar.
- Portata massima : 40l/min.
- Trafilamento interno: max 5 gocce/min a 350 bar.
- Temperatura: -30° C a 110° C.
- Fluidi: a base di minerali o sintetici con proprietà lubrificanti a viscosità di 7.4 a 420 cSt.
- Installazione: senza restrizioni di orientamento.
- Copia serraggio montaggio : 40-45 Nm
- Peso: 0.11 kg

Il grafico in pagina 1 illustra la capacità di gestione del flusso in entrambe le direzioni: da 1 a 2 e da 2 a 1, entrambi eccitati.
Le curve P/Q sono registrate alla temperatura dell'olio: 40°C e 46 cSt.

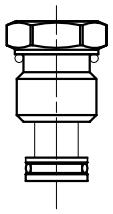
Technical Features:
- All external surfaces are zinc plated and corrosion-proof.
- All valve parts are made of high strenght steel.
- Poppet is hardened and ground to ensure minimal wear and extended service life.
- Coil seals protect the solenoid system.
- Manual override option.
- Cavity SAE 08.02

Technical Data:
- Maximum operating pressure: 350 bar.
- Maximum flow: 40l/min.
- Internal leakage: max 5 drops/min at 350 bar.
- Temperature: -30° C to 110° C.
- Fluids: Mineral-based or sinthetics with lubricating properties at viscosities of 7.4 to 420 cSt.
- Installation: no orientation restrictions.
- Installation torque: 40-45 Nm
- Weight: 0.11 kg

On page 1 the performance chart illustrates flow handling capacity in both directions: 1 to 2 and 2 to 1, both energized.
P/Q curves are recorded at oil: 40°C and 46 cSt.

Tappo per ESC40 Cod. TRV-34

Plug for ESC40 Cod. TRV-34



Close plug for ESC40

TRV34

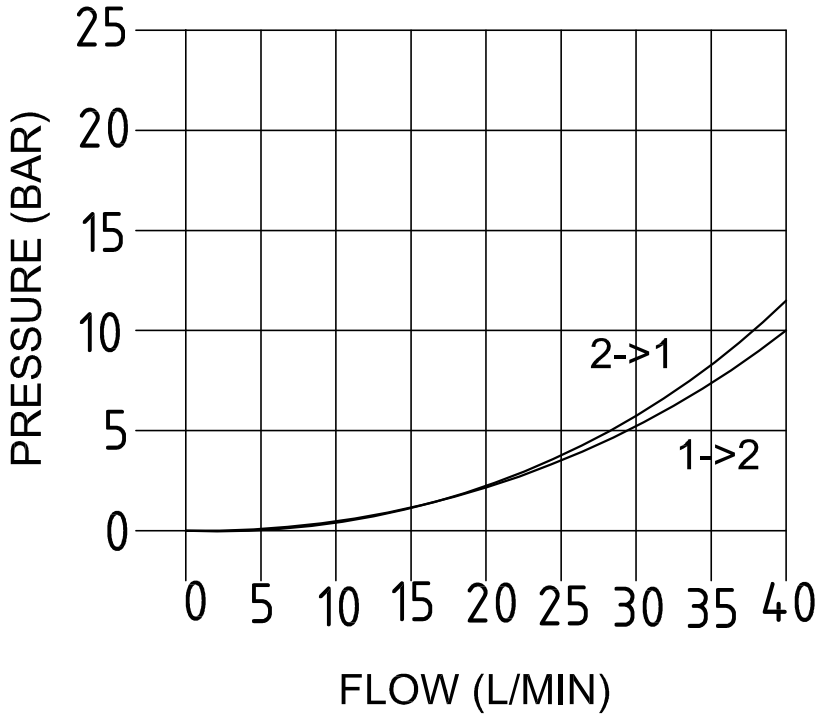
Esempio di ordinazione - Ordering code

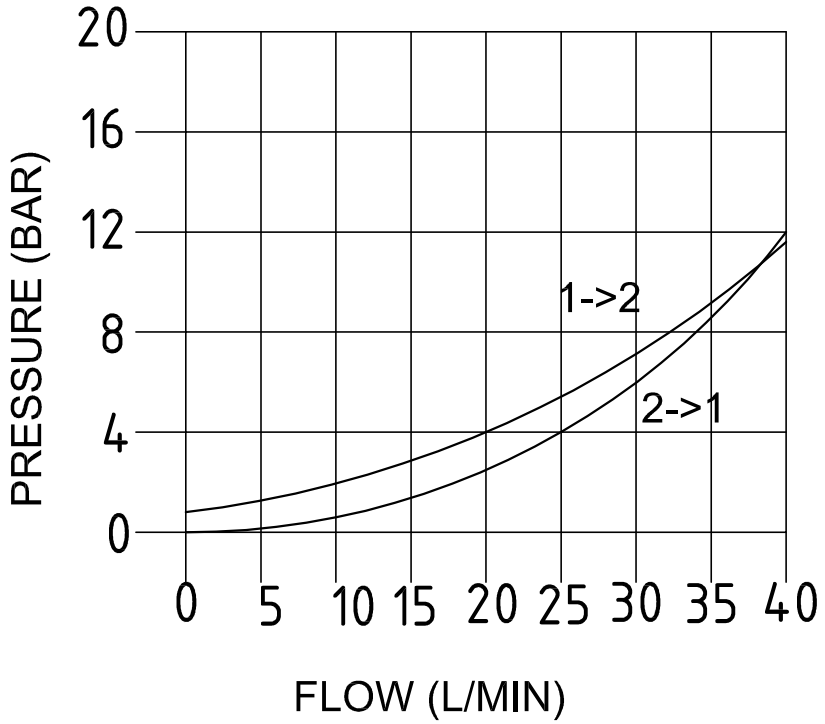
ESC 40 NC MO

- ESC: Valvola elettrica sae 08.02 / Electrical cartridge sae 08.02
- 40
- NC: NC = Normalmente chiusa / NC = Normally close
- MO: Comando manuale a richiesta (spinta) / Manual Override on req. (push & knob)

ESC40 NC

DIAGRAMMI FLUSSO

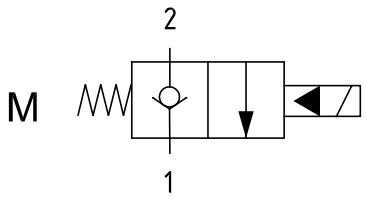


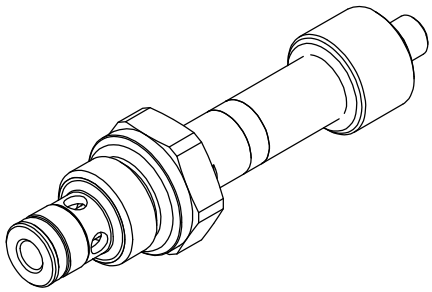


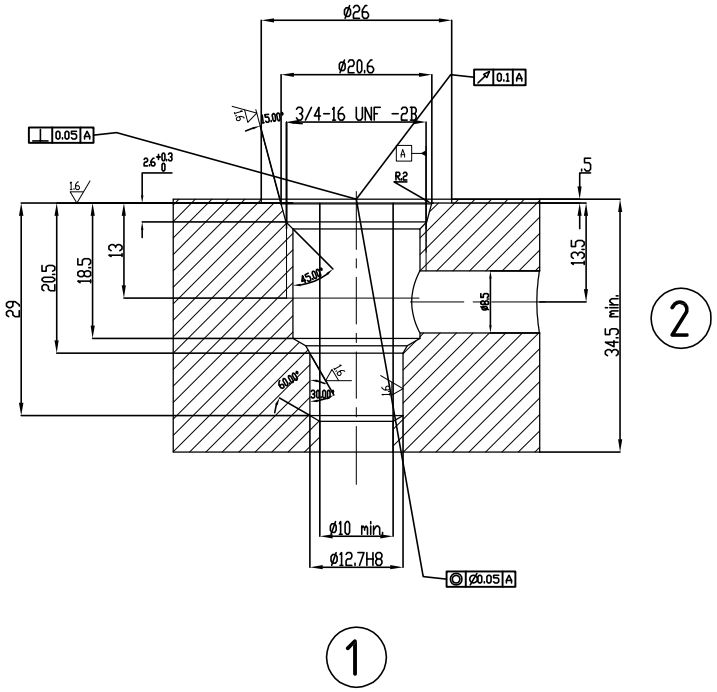
ESCM40 NC

Cartuccia elettrica 2/2 SAE 08.02
Electrical cartridge 2/2 SAE 08.02

Hydraulic diagram

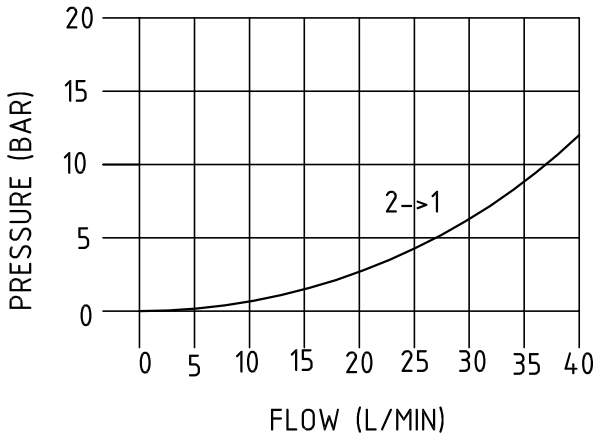






- Fluido da utilizzare: olio idraulico a norme DIN 51524 con viscosità compresa tra 30 e 100 mm²/s (cSt) a 40° C
- Filtrazione richiesta del fluido impiegato 25 µ
- Temperatura fluido idraulico: da -30° a +110° C

- Fluid to be used: hydraulic oil to DIN 51524 standards with a viscosity between 30 and 100 mm²/s (cSt) to 40° C
- The fluid filtration requested is 25 µ
- Temperature hydraulic fluid: -30° to +110° C



Esempio di ordinazione - Ordering code

ESC M 40 NC MO

ESC — Valvola elettrica sae 08.02 / Electrical cartridge sae 08.02

M — M=Monodirezionale / M=Monodirectional

NC — NC = Normalmente chiusa / NC = Normally closed

MO — Comando Manuale a richiesta / Manual Override on request

ESCM40 NC

Cartuccia elettrica 2/2 SAE 08.02
Electrical cartridge 2/2 SAE 08.02

Caratteristiche tecniche:
- Tutte le superfici esterne sono zincate e resistenti alla corrosione.
- Tutte le parti della valvola sono realizzate in acciaio ad alta resistenza.
- L'otturatore è temprato e rettificato per garantire minima usura e lunga durata.
- Le guarnizioni della bobina proteggono il sistema solenoide.
- Comando manuale in opzione.
- Cavity SAE 08.02

Technical Features:
- All external surfaces are zinc plated and corrosion-proof.
- All valve parts are made of high strenght steel.
- Poppet is hardened and ground to ensure minimal wear and extended service life.
- Coil seals protect the solenoid system.
- Manual override option.
- Cavity SAE 08.02

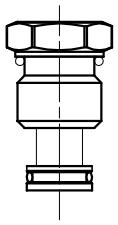
Dati tecnici:
- Pressione massiam di esercizio: 350 bar.
- Portata massima : 40l/min.
- Trafilamento interno: max 5 gocce/min a 350 bar.
- Temperatura: -30° C a 110° C.
- Fluidi: a base di minerali o sintetici con proprietà lubrificanti a viscosità di 7.4 a 420 cSt.
- Installazione: senza restrizioni di orientamento.
- Copia serraggio montaggio : 40-45 Nm
- Peso: 0.11 kg

Technical Data:
- Maximum operating pressure: 350 bar.
- Maximum flow: 40l/min.
- Internal leakage: max 5 drops/min at 350 bar.
- Temperature: -30° C to 110° C.
- Fluids: Mineral-based or sinthetics with lubricating properties at viscosities of 7.4 to 420 cSt.
- Installation: no orientation restrictions.
- Installation torque: 40-45 Nm
- Weight: 0.11 kg

Il grafico illustra la capacità di gestione del flusso in entrambe le direzioni: da 1 a 2 diseccitato, da 2 a 1 eccitato. Le curve P/Q sono registrate alla temepratura dell'olio: 40°C e 46 cSt.

The performance chart illustrates flow handling capacity in both directions: 1 to 2 de-energized, 2 to 1 energized. P/Q curves are recorded at oil: 40°C and 46 cSt.

Tappo per ESC40 Cod. TRV-34
Plug for ESC40 Cod. TRV-34



Close plug for ESC40

TRV34

Esempio di ordinazione - Ordering code

ESC M 40 NC MO

Valvola elettrica sae 08.02
Electrical cartridge sae 08.02

M=Monodirezionale
M=Monodirectional

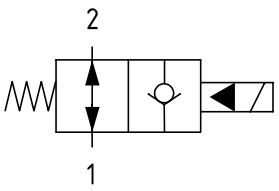
Comando Manuale a richiesta
Manual Override on request

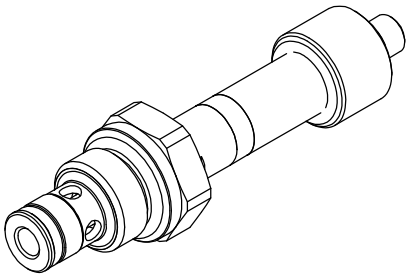
NC = Normalmente chiusa
NC = Normally closed

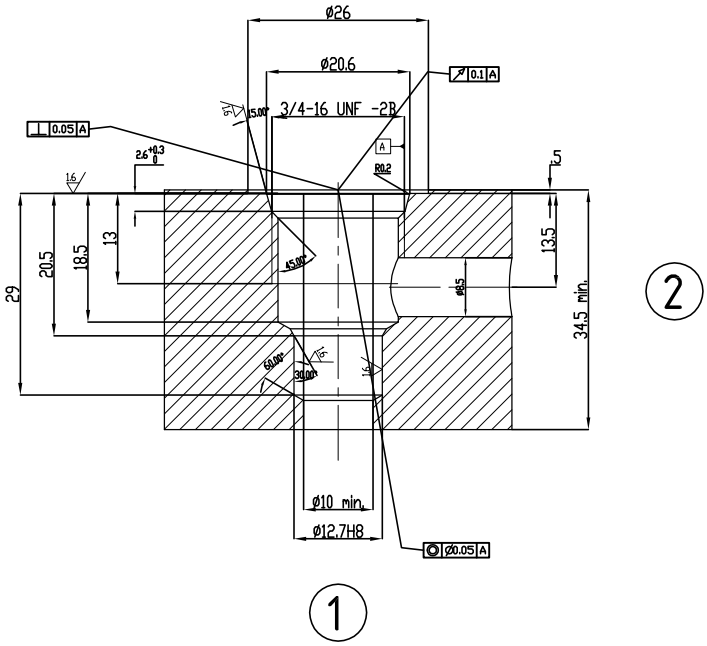
ESC40 NO

Cartuccia elettrica 2/2 SAE 08.02
Electrical cartridge 2/2 SAE 08.02

Hydraulic diagram

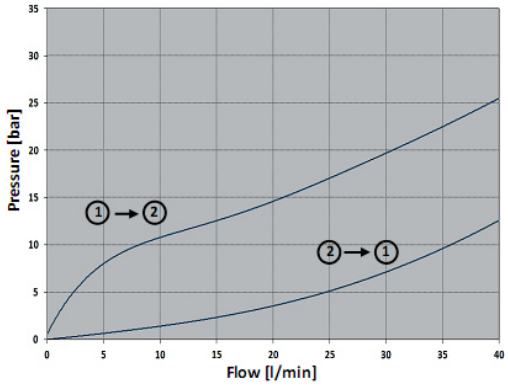






- Fluido da utilizzare: olio idraulico a norme DIN 51524 con viscosità compresa tra 30 e 100 mm²/s (cSt) a 40° C
- Filtrazione richiesta del fluido impiegato 25µ
- Temperatura fluido idraulico: da -30° a +110° C

- Fluid to be used: hydraulic oil to DIN 51524 standards with a viscosity between 30 and 100 mm²/s (cSt) to 40° C
- The fluid filtration requested is 25µ
- Temperature hydraulic fluid: -30° to +110° C



Esempio di ordinazione - Ordering code

ESC 40 NO MO

- ESC: Valvola elettrica sae 08.02 / Electrical cartridge sae 08.02
- NO: NO = Normalmente aperta / NO = Normally open
- MO: Comando manuale a richiesta (spinta) / Manual Override on req. (push & knob)

ESC40 NO

Cartuccia elettrica 2/2 SAE 08.02
Electrical cartridge 2/2 SAE 08.02

Caratteristiche tecniche:
- Tutte le superfici esterne sono zincate e resistenti alla corrosione.
- Tutte le parti della valvola sono realizzate in acciaio ad alta resistenza.
- L'otturatore è temprato e rettificato per garantire minima usura e lunga durata.
- Le guarnizioni della bobina proteggono il sistema solenoide.
- Comando manuale opzione.
- Cavity SAE 08.02

Dati tecnici:
- Pressione massima di esercizio: 300 bar.
- Portata massima : 40l/min.
- Trafilamento interno: max 5 gocce/min a 300 bar.
- Tempo di risposta: eccitata 20 msec, diseccitata 30 msec (tipico bobine 24V DC).
- Temperatura: -30° C a 110° C.
- Fluidi: a base di minerali o sintetici con proprietà lubrificanti a viscosità di 7.4 a 420 cSt.
- Installazione: senza restrizioni di orientamento.
- Copia serraggio montaggio : 40-45 Nm
- Peso: 0.12 kg

Il grafico a pagina 1 illustra la capacità di gestione del flusso in entrambe le direzioni: da 1 a 2 eccitati, da 2 a 1 diseccitati.
Le curve P/Q sono registrate alla temperatura dell'olio: 40°C e 46 cSt.

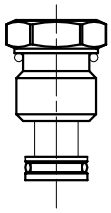
Technical Features:
- All external surfaces are zinc plated and corrosion-proof.
- All valve parts are made of high strenght steel.
- Poppet is hardened and ground to ensure minimal wear and extended service life.
- Coil seals protect the solenoid system.
- Manual override option.
- Cavity SAE 08.02

Technical Data:
- Maximum operating pressure: 300 bar.
- Maximum flow: 40l/min.
- Internal leakage: max 5 drops/min at 300 bar.
- Response time: Energized 20 msec, de-energized 30 msec (typical 24V DC coil).
- Temperature: -30° C to 110° C.
- Fluids: Mineral-based or sinthetics with lubricating properties at viscosities of 7.4 to 420 cSt.
- Orientation: no orientation restrictions.
- Installation torque: 40-45 Nm
- Weight: 0.12 kg

On page 1 the performance chart illustrates flow handling capacity in both directions: 1 to 2 energized and 2 to 1 de-energized.
P/Q curves are recorded at oil: 40°C and 46 cSt.

Tappo per ESC40 Cod. TRV-34

Plug for ESC40 Cod. TRV-34



Close plug for ESC40

TRV34

Esempio di ordinazione - Ordering code

ESC 40 NO MO

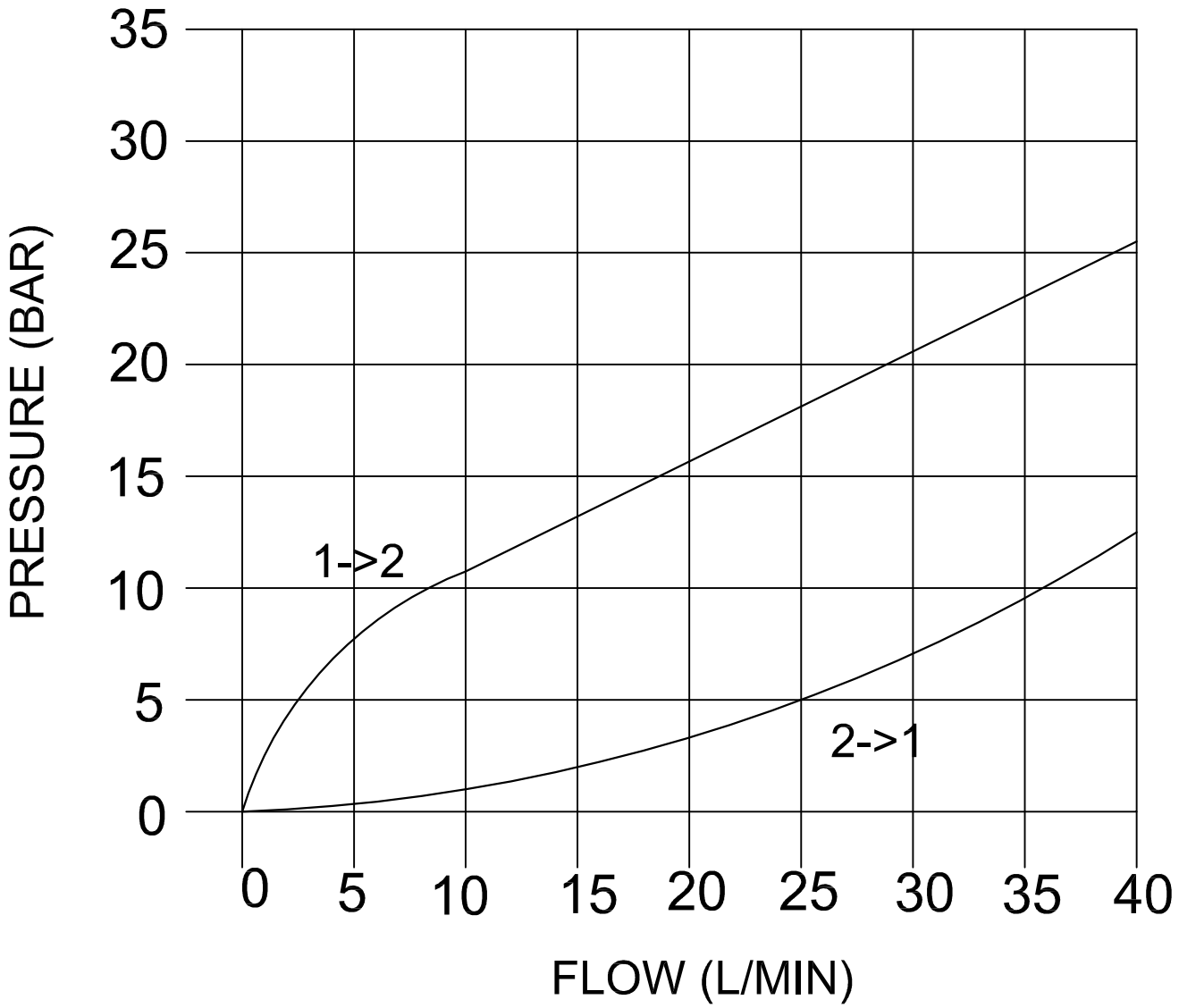
MO: Comando manuale a richiesta (spinta)
Manual Override on req. (push & knob)

ESC: Valvola elettrica sae 08.02
Electrical cartridge sae 08.02

NO: NO = Normalmente aperta
NO = Normally open

ESC40 NO

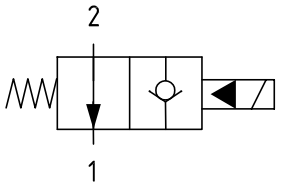
DIAGRAMMI FLUSSO

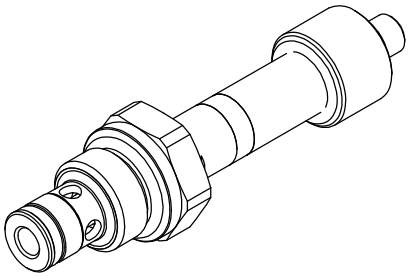


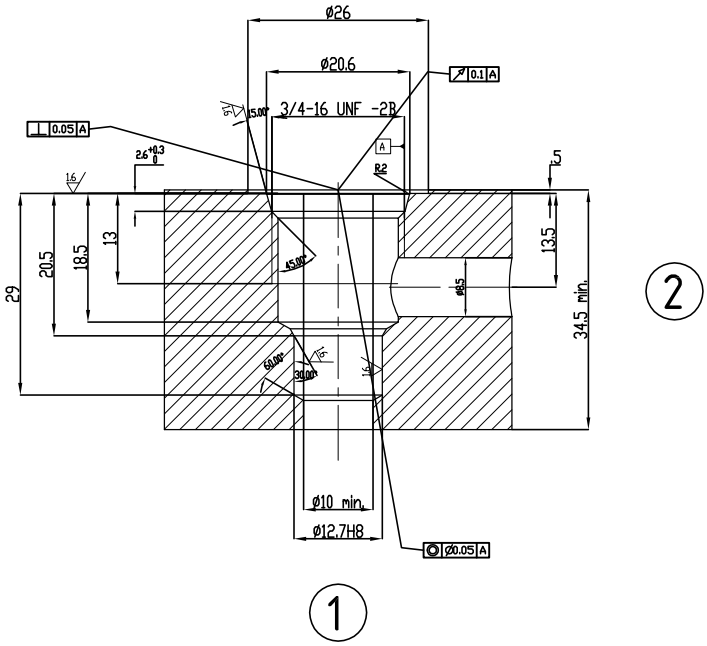
ESCM40 NO

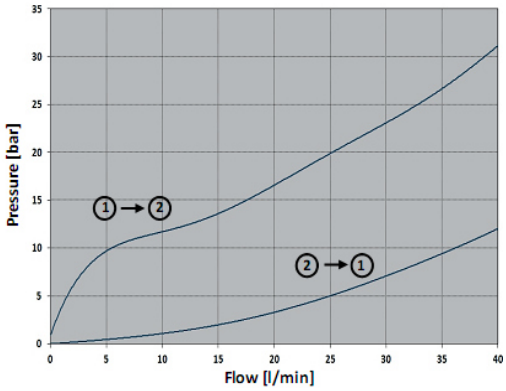
Cartuccia elettrica 2/2 SAE 08.02
Electrical cartridge 2/2 SAE 08.02

Hydraulic diagram









Esempio di ordinazione - Ordering code

ESC M 40 NO MO

- ESC: Valvola elettrica sae 08.02 / Electrical cartridge sae 08.02
- M: M=Monodirezionale / M=Monodirectional
- NO: NO = Normalmente aperta / NO = Normally open
- MO: Comando Manuale a richiesta / Manual Override on request

ESCM40 NO

Cartuccia elettrica 2/2 SAE 08.02
Electrical cartridge 2/2 SAE 08.02

Caratteristiche tecniche:
- Tutte le superfici esterne sono zincate e resistenti alla corrosione.
- Tutte le parti della valvola sono realizzate in acciaio ad alta resistenza.
- L'otturatore è temprato e rettificato per garantire minima usura e lunga durata.
- Le guarnizioni della bobina proteggono il sistema solenoide.
- Comando manuale in opzione.
- Cavity SAE 08.02

Dati tecnici:
- Pressione massima di esercizio: 300 bar.
- Portata massima : 40l/min.
- Trafilamento interno: max 5 gocce/min a 300 bar.
- Tempo di risposta: ecciatata 20 msec, diseccitata 30 msec (tipico bobine 24V DC).
- Temperatura: -30° C a 110° C.
- Fluidi: a base di minerali o sintetici con proprietà lubrificanti a viscosità di 7.4 a 420 cSt.
- Installazione: senza restrizioni di orientamento.
- Copia serraggio montaggio : 40-45 Nm
- Peso: 0.12 kg

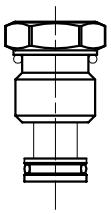
Il grafico illustra la capacità di gestione del flusso in entrambe le direzioni: da 1 a 2 eccitato, da 2 a 1 diseccitato. Le curve P/Q sono registrate alla temepratura dell'olio: 40°C e 46 cSt.

Technical Features:
- All external surfaces are zinc plated and corrosion-proof.
- All valve parts are made of high strenght steel.
- Poppet is hardened and ground to ensure minimal wear and extended service life.
- Coil seals protect the solenoid system.
- Manual override option.
- Cavity SAE 08.02

Technical Data:
- Maximum operating pressure: 300 bar.
- Maximum flow: 40l/min.
- Internal leakage: max 5 drops/min at 300 bar.
- Response time: Energized 20msec, de-energized 30 msec (typical 24V DC coil).
- Temperature: -30° C to 110° C.
- Fluids: Mineral-based or sinthetics with lubricating properties at viscosities of 7.4 to 420 cSt.
- Orientation: no restrictions.
- Installation torque: 40-45 Nm
- Weight: 0.12 kg

The performance chart illustrates flow handling capacity in both directions: 1 to 2 energized, 2 to 1 de-energized. P/Q curves are recorded at oil: 40°C and 46 cSt.

Tappo per ESC40 Cod. TRV-34
Plug for ESC40 Cod. TRV-34



Close plug for ESC40

TRV34

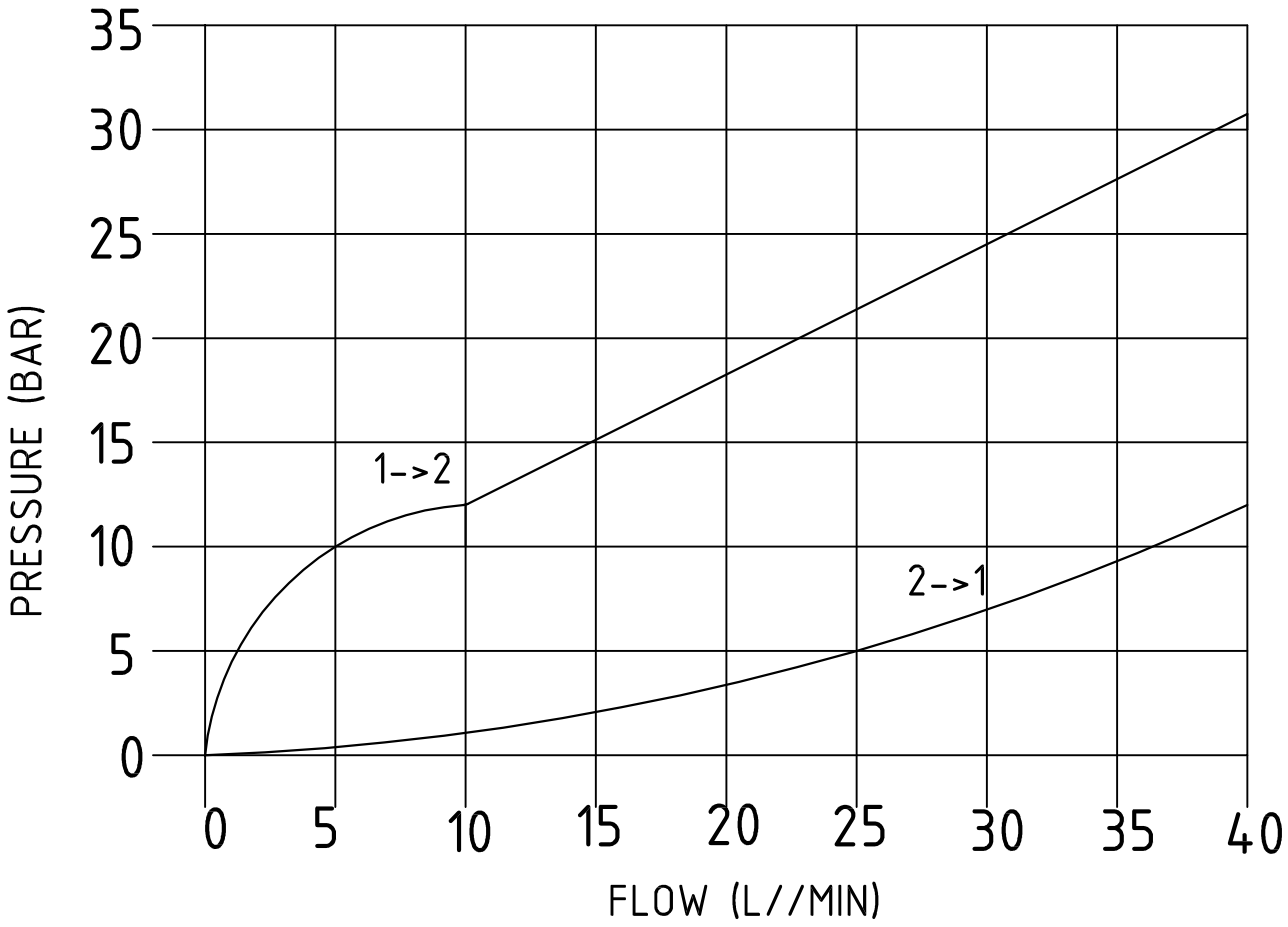
Esempio di ordinazione - Ordering code

ESC M 40 NO MO

- ESC: Valvola elettrica sae 08.02 / Electrical cartridge sae 08.02
- M: M=Monodirezionale / M=Monodirectional
- NO: NO = Normalmente aperta / NO = Normally open
- MO: Comando Manuale a richiesta / Manual Override on request

ESCM40 NO

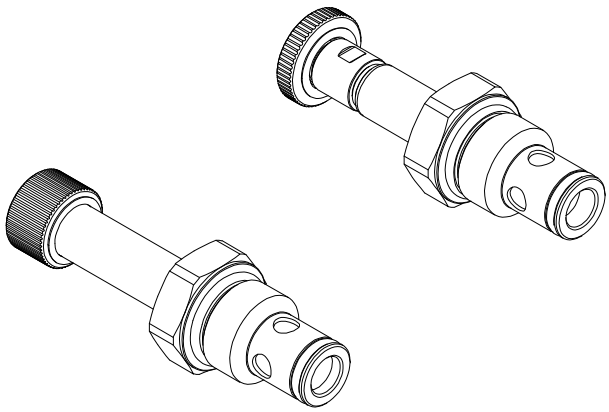
DIAGRAMMI FLUSSO



ESC 70 **

Valvola elettrica 2/2, azione pilotata, a cartuccia SAE10/2

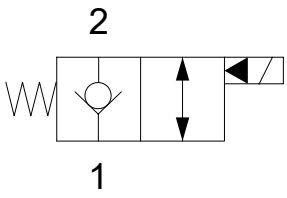
Cartridge style 2/2 Solenoid valve, pilot operated, SAE10/2



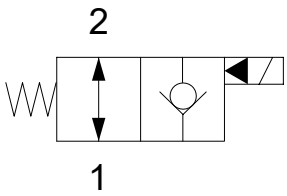
DATI TECNICI *TECHNICAL DATA*	
Portata max / Max flow-rate	80 Lt/min
Pressione max di lavoro / Max working pressure	350 bar
Tipo di fluido / Fluid type	Olio idraulico DIN-51524 Hydraulic oil DIN-51524
Temp. olio raccomandata / Recommended oil temp.	-30 / +110 °C
Filtrazione raccomandata / Recommended filtration	20/18/15 ISO-4406
Trafilamento interno max / Max internal leakage	0,25 ml/min
Bobina (standard) / Coil (standard)	22 W ED 100%
Tempo di commutazione max / Max switching time	ON 50 - OFF 50 ms
Cavità / Cavity	SAE 10/2
Coppia di serraggio / Tightening torque	65-70 Nm
Peso / Weight	0,15 Kg
Corpo esterno in Acciaio zincato / Zinc-plated steel external body	
Parti interne Acciaio TT e rettificato / Hardened and ground Steel internal parts	

Schema idraulico
Hydraulic scheme

NC



NO



- Tutte le superfici esterne sono zincate e resistenti alla corrosione.
- Tutte le parti della valvola sono realizzate in acciaio ad alta resistenza.
- L'otturatore è temprato/rettificato per garantire minima usura e lunga durata.
- Le guarnizioni della bobina proteggono il solenoide.
- Installazione : senza restrizioni di orientamento.

- All external surfaces are zinc plated and corrosion-proof.
- All valve parts are made of high strenght steel.
- Poppet is hardened and ground to ensure minimal wear and extended service life.
- Coil seals protect the solenoid system.
- Installation: no orientation restrictions.

Codice di ordinazione - *Ordering code*

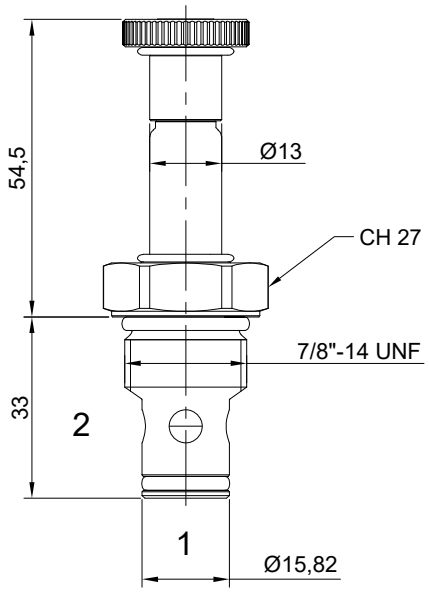
ESC 70 ** **

NC = Normalmente chiusa
NC = Normally closed
NO = Normalmente aperta
NO = Normally open

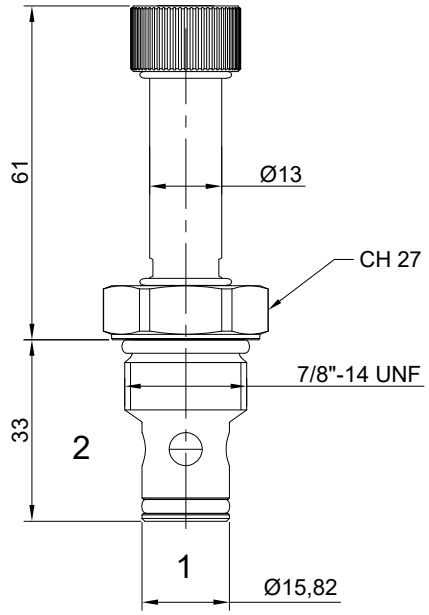
"Omettere" = Senza emergenza manuale
"Omit" = Without manual override
MO = Emergenza manuale
MO = Manual override
MOS = Emergenza manuale (vite)
MOS = Manual override (screw)

ESC 70 **

NC

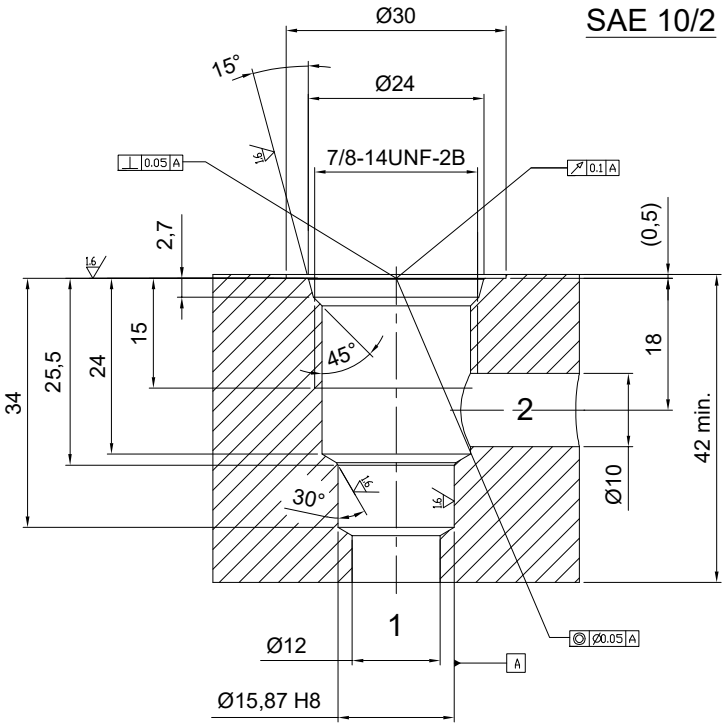


NO

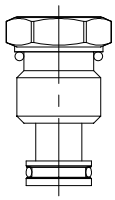


Cavità
Cavity

SAE 10/2



Prestare attenzione alla lavorazione della cavità, sia le dimensioni che le finiture
Pay attention to the tooling of the cavity, both the dimensions and the finishing



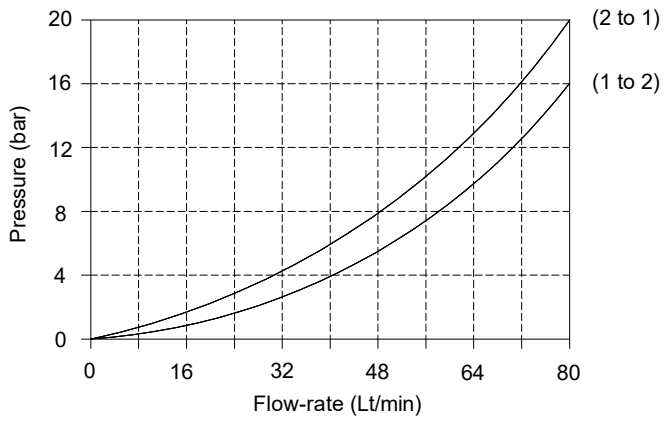
Tappo chiusura Cavità
Cavity close plug

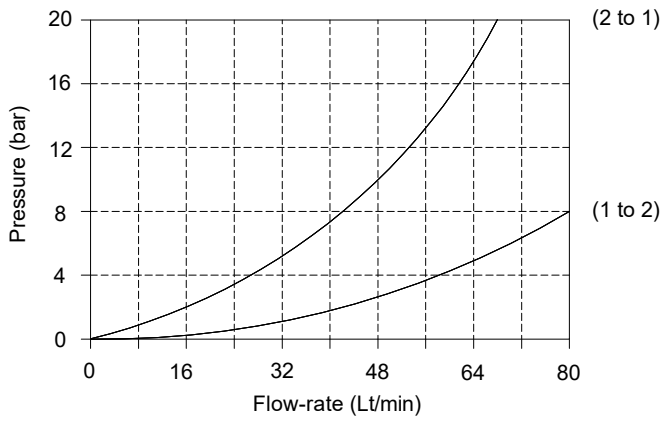
TRV78

NC

Perdite di carico / *Pressure drop*

NO

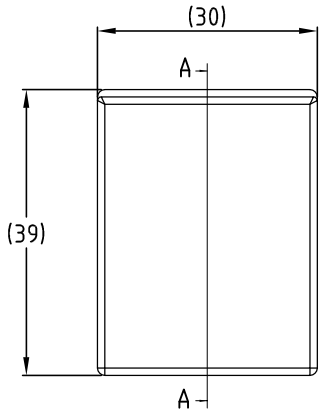


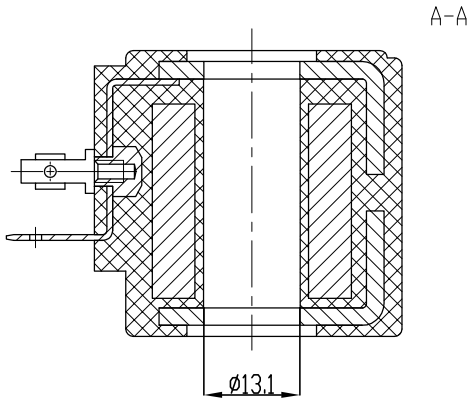


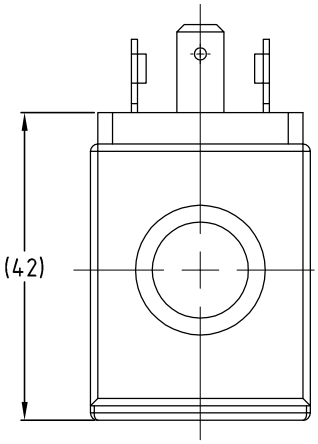
Curve acquisite con Olio minerale 46 cSt @ 40 °C
Curves recorded with Mineral Oil 46 cSt @ 40 °C

BESC40

Bobina per valvola ESC 40
Coil for electrical cartridge ESC 40







- Connessione tipo DIN, Altre connessioni a richiesta
- Potenza/Power : 18W
- Tolleranza/Tolerance :+10%, -15%(DC) +10%, -5% (AC)
- Temperatura ambiente/Ambient Temperature range: -30°C, +60°C
- Peso/Weight: 0.17Kg

Esempio di ordinazione - Ordering code

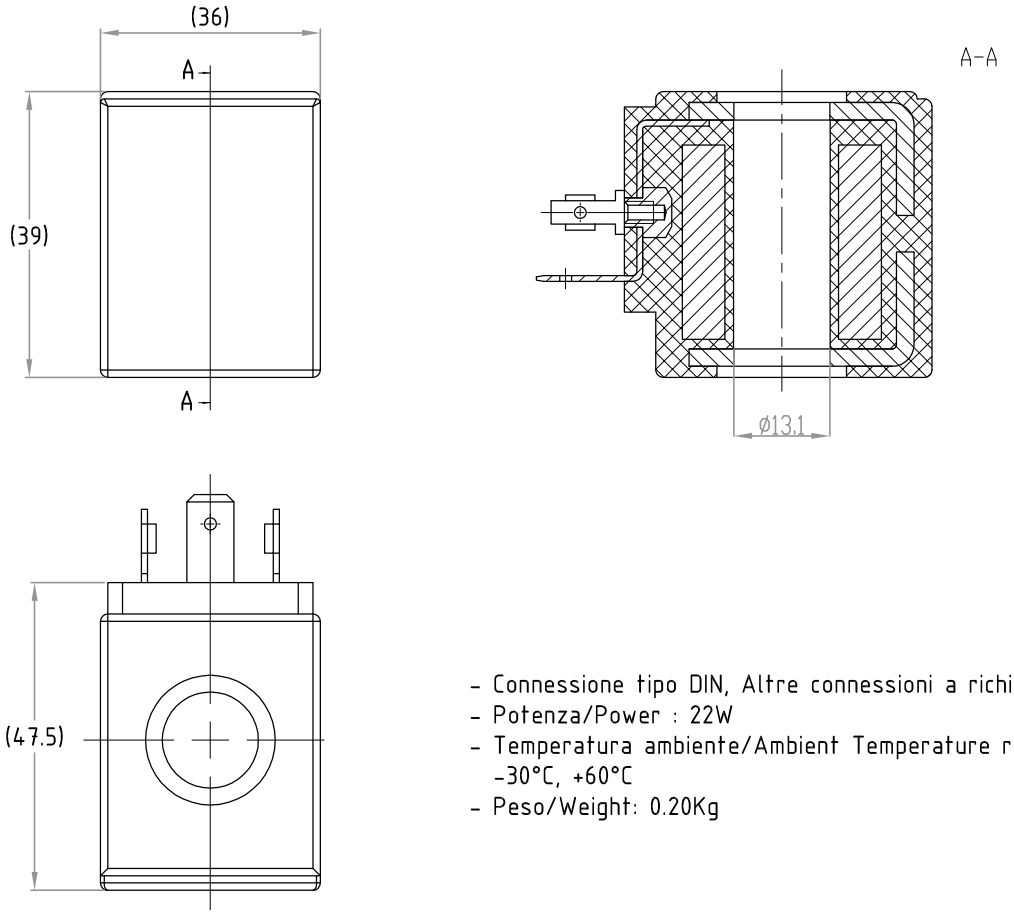
BESC 40 **

Bobina per ESC 40
Coil for cartridge ESC 40

12=12 VDC 24=24 VDC
110=110 VAC 220=220 VAC

BESC22

Bobina per valvola ESC 22 W
Coil for electrical cartridge ESC 22W



- Connessione tipo DIN, Altre connessioni a richiesta
- Potenza/Power : 22W
- Temperatura ambiente/Ambient Temperature range: -30°C, +60°C
- Peso/Weight: 0.20Kg

Esempio di ordinazione - Ordering code

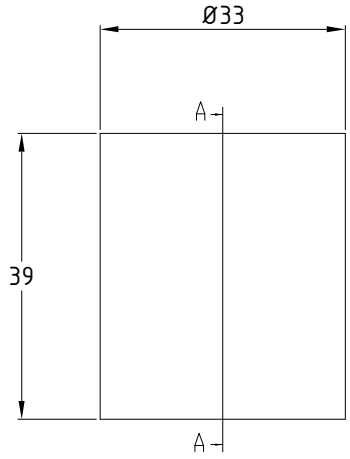
BESC 22 **

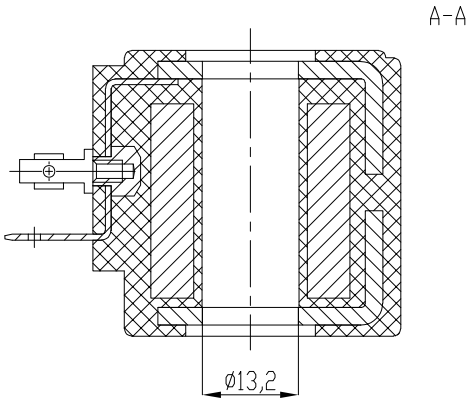
Bobina per ESC 22W
Coil for cartridge ESC 22W

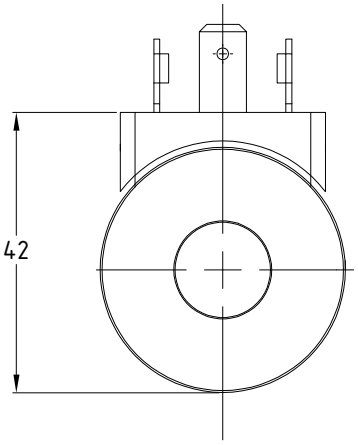
12=12 VDC 24=24 VDC

BESC20.5

Bobina per valvola ESC con armatura metallica esterna
Coil for electrical cartridge ESC with external metal cage







- Connessione tipo DIN-43650 (standard). Altre connessioni a richiesta.
- Potenza/Power : 20,5 W
- ED : 100 %
- Tolleranza/Tolerance : +/-10% (DC), +10% -5% (AC)
- Classe isolamento : H (180°)
- Temperatura ambiente/Ambient Temperature range : -30°C, +60°C
- Peso/Weight : 0,19 Kg

Codice di ordinazione - Ordering code

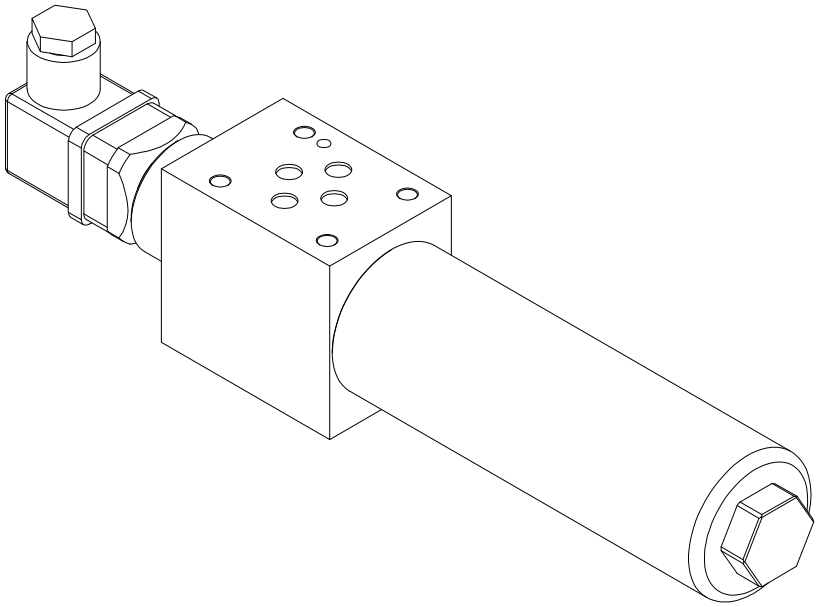
B - ESC ** 20.5W

12DC = 12 Vdc 24DC = 24 Vdc
110AC = 110 Vac 220AC = 220 Vac

HYDRO FACTORY

Tailor-made Fluid Technology

Componenti per Filtrazione
Filtration Components

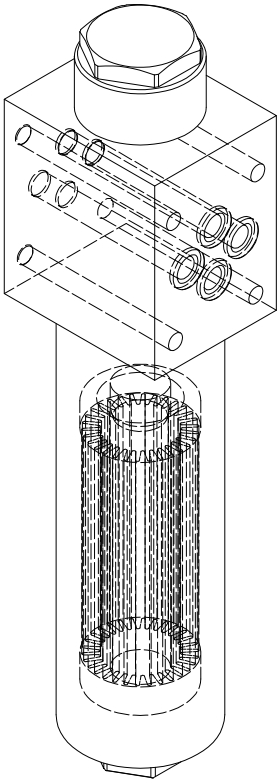


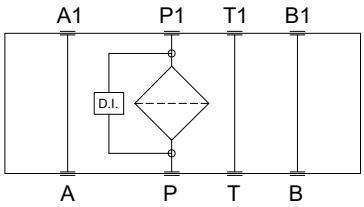
Sezione Q
Section Q

www.hydrofactory.it

FPM 03

Filtro alta pressione modulare, interfaccia CETOP-03 (ISO-4401-03)
High pressure modular inline Filter, CETOP-03 interface (ISO-4401-03)





CARATTERISTICHE MATERIALI
MATERIALS CHARACTERISTICS

Testina filtro = GHISA (fosfatata)
Contenitore = ACCIAIO (fosfatato)
Guarnizioni = NBR / PTFE
Filter Head = CAST IRON (phosphated)
Bowl = STEEL (phosphated)
Seals = NBR / PTFE

Elemento filtrante = MICROFIBRA Inorganica
Pressione collasso = 210 bar DIFFERENZIALI (senza by-pass)
Filter Element = Inorganic MICROFIBRE
Collapse pressure = 210 bar DIFFERENTIAL (without by-pass)

Fluido = Olio idraulico minerale, a norma ISO-6743/4
Fluid = Mineral Oil, according to ISO-6743/4

DATI TECNICI *TECHNICAL DATA*	
Portata max (raccomandata) / Max flow (recommended)	30 Lt/min
Pressione max di lavoro / Max working pressure	315 bar
Pressione di scoppio / Burst pressure	940 bar
Temp. olio raccomandata / Recommended oil temp.	-30 / +100 °C
Peso / Weight	2,57 Kg

Codice di ordinazione - *Ordering code*

FPM 03 ** ** *

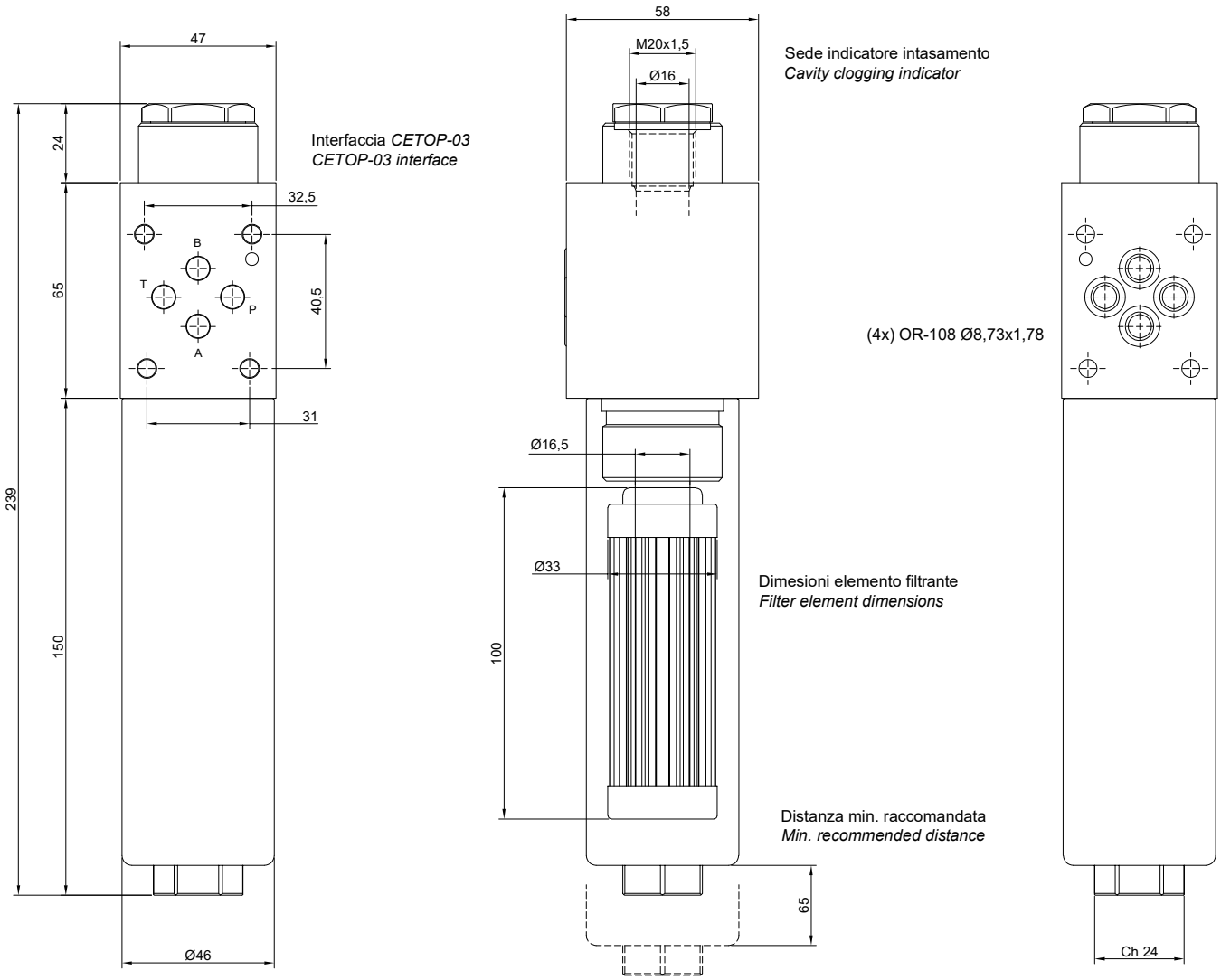
Modulare CETOP-03 (NG6)
Modular CETOP-03 (NG6)

03 grado filtrazione 3 µm
03 filtration rating 3 µm
10 grado filtrazione 10 µm
10 filtration rating 10 µm
25 grado filtrazione 25 µm
25 filtration rating 25 µm

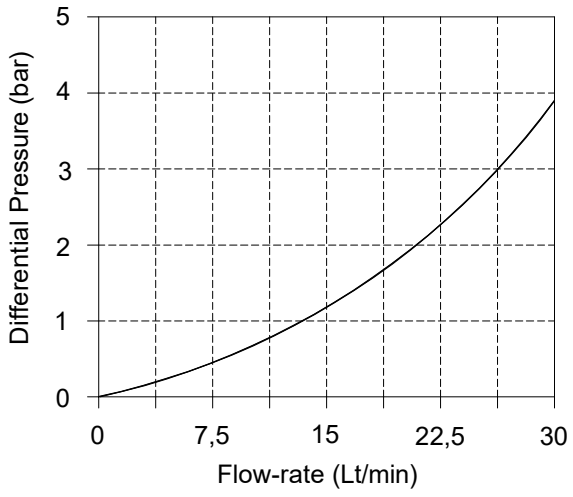
"OMETTERE" senza indicatore intasamento (tappo)
"OBMIT" without clogging indicator (plug)
V indicatore intasamento visivo
V visual clogging indicator
E indicatore intasamento elettrico
E electrical clogging indicator
EV indicatore intasamento elettrico-visivo
EV visual-electrical clogging indicator

5 bar differenziali (Tar. indicatore)
5 bar differential (Set. indicator)
8 bar differenziali (Tar. indicatore)
8 bar differential (Set. indicator)

FPM 03

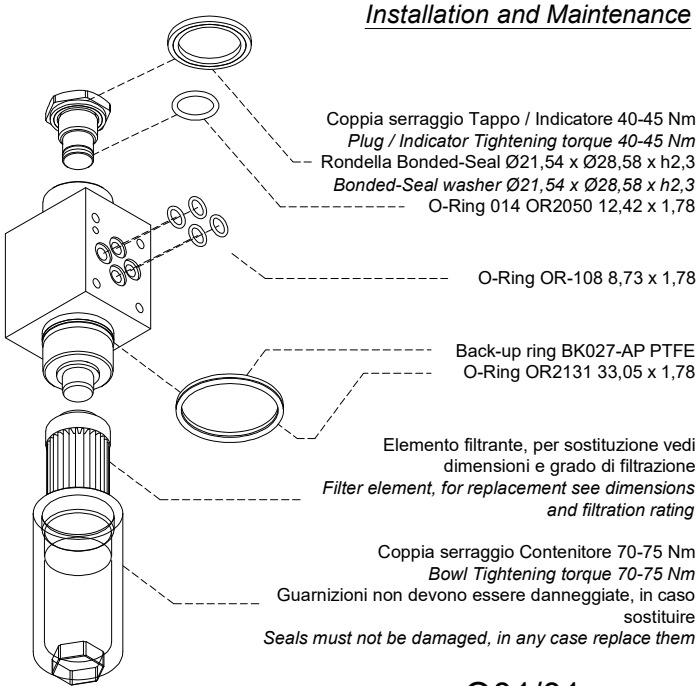


Curva Perdite di carico Manifold
Manifold Pressure drop diagram



Per perdite di carico relative a elementi filtranti, contattare i nostri uffici
For pressure drops related to filter elements, contact our offices

Installazione e Manutenzione
Installation and Maintenance



INFORMAZIONI TECNICHE
TECHNICAL INFORMATION

I componenti oleodinamici devono essere selezionati, installati e utilizzati in conformità alle caratteristiche tecniche dichiarate dal costruttore e alle condizioni operative previste dall'impianto, con particolare riferimento a :

Pressione nominale e massima pressione di esercizio.
Portata richiesta e velocità del fluido.
Temperatura di funzionamento e condizioni ambientali.
Tipologia del fluido idraulico e compatibilità dei materiali.
Ciclo di lavoro, frequenza di utilizzo e carichi applicati.
Tipologia di montaggio, ingombri e caratteristiche dei collegamenti.

1. Fluido idraulico e pulizia del circuito.
Il fluido idraulico deve essere scelto in funzione delle prescrizioni del costruttore, delle condizioni operative e della compatibilità con guarnizioni, tenute e materiali dei componenti.
È fondamentale mantenere il fluido pulito e controllarne periodicamente lo stato, il livello, la viscosità e la temperatura. La contaminazione da particelle solide, acqua o altri agenti può compromettere il funzionamento e ridurre sensibilmente la durata dei componenti.

2. Installazione e collegamenti.
L'installazione deve essere eseguita da personale qualificato, rispettando gli schemi idraulici, le indicazioni di montaggio e le coppie di serraggio eventualmente prescritte.
Prima della messa in servizio, verificare :
La corretta identificazione delle porte e il collegamento delle linee.
La compatibilità e l'idoneità di tubazioni, raccordi e guarnizioni.
L'assenza di sollecitazioni meccaniche anomale, vibrazioni eccessive e interferenze.
La pulizia delle superfici di accoppiamento e la corretta installazione delle tenute.
Evitare di forzare i collegamenti o di applicare carichi non previsti sulle connessioni dei componenti.

3. Condizioni operative.
Durante il funzionamento, pressione, portata e temperatura devono rimanere entro i valori ammessi per ciascun componente e per l'intero impianto.
Il sistema deve essere adeguatamente protetto da picchi di pressione e condizioni operative anomale. Particolare attenzione deve essere riservata alle perdite di carico, al corretto dimensionamento delle linee e alla dissipazione del calore.

4. Sicurezza.
Gli interventi di installazione, regolazione e manutenzione devono essere eseguiti adottando tutte le misure di sicurezza previste per l'impianto.

Hydraulic components must be selected, installed and operated in accordance with the technical specifications declared by the manufacturer and the operating conditions for which the system is designed, with particular reference to:

Nominal pressure and maximum operating pressure.
Required flow-rate and fluid velocity.
Operating temperature and environmental conditions.
Type of hydraulic fluid and material compatibility.
Duty-cycle, frequency of use and applied loads.
Mounting configuration, overall dimensions and connection specifications.

1. Hydraulic Fluid and Circuit Cleanliness.
The hydraulic fluid must be selected according to the manufacturer's recommendations, the operating conditions and its compatibility with the seals, sealing elements and component materials.
It's essential to keep the fluid clean and to periodically check its condition, level, viscosity and temperature. Contamination by solid particles, water or other contaminants may impair operation and significantly reduce components service life.

2. Installation and Connections.
Installation must be carried out by qualified personnel in accordance with the hydraulic schemes, installation instructions and any specified tightening torques.
Before start-up, verify :
Correct identification of ports and proper connection of hydraulic lines.
Compatibility and suitability of pipes, hoses, fittings and seals.
Absence of abnormal mechanical stress, excessive vibration and interference.
Cleanliness of surfaces and correct installation of seals.
Do not force connections or apply loads to component connections that are not designed.

3. Operating Conditions.
During working operation, pressure, flow-rate and temperature must remain within the permissible limits specified for each component and for the complete system.
The system must be adequately protected against pressure peaks and abnormal operating conditions. Particular attention must be paid to pressure drops, correct sizing of hydraulic lines and heat dissipation.

4. Safety.
Installation, adjustment and maintenance operations must be carried out in compliance with all safety measures and procedures applicable to the system.

INFORMAZIONI TECNICHE
TECHNICAL INFORMATION

Di seguito alcune delle principali norme e direttive generali, relative alla componentistica oleodinamica.

EN-ISO-4413 Oleoidraulica : Regole generali e requisiti di sicurezza per sistemi e componenti.

EN-ISO-12100 Sicurezza del macchinario : Valutazione e riduzione dei rischi.

Direttiva 2014/68/UE (PED) Attrezzature a pressione, applicabile in funzione delle caratteristiche e della classificazione del prodotto.

Direttiva 2006/42/CE (Direttiva Macchine) Requisiti di sicurezza delle macchine.

EN-ISO-6020 / EN-ISO-6022 Dimensioni di montaggio e caratteristiche dei cilindri oleodinamici, per le rispettive serie di pressione.

EN-853 / EN-854 / EN-855 / EN-856 / EN-857 Tubi flessibili in gomma per applicazioni oleodinamiche, secondo tipologia e costruzione.

EN-ISO-1219-1 / EN-ISO-1219-2 Simboli grafici e schemi dei circuiti di potenza mediante fluidi.

ISO-5598 Terminologia relativa ai sistemi di trasmissione di potenza mediante fluidi.

ISO-6149 / ISO-8434 / ISO-6162 Connessioni per trasmissioni di potenza mediante fluidi.

ISO-4401 Superfici di montaggio e dimensioni d'interfaccia.

UNI-ISO-5783-99 Codice di identificazione delle superfici di montaggio di valvole e delle cavità di valvole a cartuccia.

ISO-4406 Codice di classificazione del livello di contaminazione particellare dei fluidi idraulici.

ISO-10771-1 Prove di fatica a pressione dei componenti metallici per trasmissioni di potenza mediante fluidi.

EN-ISO-13849-1 / EN-ISO-13849-2 Sicurezza delle parti dei sistemi di comando legate alla sicurezza, ove applicabile.

EN-IEC-60204-1 Equipaggiamento elettrico delle macchine, per i componenti elettro-idraulici e i relativi sistemi elettrici.

Direttiva 2014/34/UE (ATEX) Apparecchi e sistemi di protezione destinati a essere utilizzati in atmosfere potenzialmente esplosive, ove applicabile.

The following is a list of some of the main standards and general directives applicable to hydraulic components.

EN-ISO-4413 Hydraulic Fluid Power: General rules and safety requirements for systems and their components.

EN-ISO-12100 Safety of Machinery: Risk assessment and risk reduction.

Directive 2014/68/EU (PED) Pressure Equipment Directive: Applicable to pressure equipment depending on the product's characteristics and classification.

Directive 2006/42/EC (Machinery Directive): Safety requirements for machinery.

EN-ISO-6020 / EN-ISO-6022: Mounting dimensions and specifications for hydraulic cylinders, according to the respective pressure series.

EN-853 / EN-854 / EN-855 / EN-856 / EN-857: Rubber hoses for hydraulic applications, depending on hose type and construction.

EN-ISO-1219-1 / EN-ISO-1219-2: Graphical symbols and circuit diagrams for fluid power systems.

ISO-5598: Terminology relating to fluid power systems.

ISO-6149 / ISO-8434 / ISO-6162: Connections for fluid power systems.

ISO-4401: Mounting surfaces and interface dimensions.

UNI-ISO-5783-99: Identification code for valve mounting surfaces and cartridge valve cavities.

ISO-4406: Coding system for classifying the level of particulate contamination in hydraulic fluids.

ISO-10771-1: Pressure fatigue testing of metallic fluid power components.

EN-ISO-13849-1 / EN-ISO-13849-2: Safety-related parts of control systems, where applicable.

EN-IEC-60204-1: Electrical equipment of machines, applicable to electro-hydraulic components and their associated electrical systems.

Directive 2014/34/EU (ATEX): Equipment and protective systems intended for use in potentially explosive atmospheres, where applicable.

INFORMAZIONI TECNICHE
TECHNICAL INFORMATION

I prodotti rappresentati nel seguente catalogo sono costruiti in ghisa, acciaio e lega alluminio.

Le pressioni di esercizio sono le seguenti:

GHISA / ACCIAIO:

Grandezza	Press. di lavoro	Press. di picco
NG6 - Cetop 03	310 bar	350 bar
NG10 - Cetop 05	270 bar	310 bar
NG16 - Cetop 07	220 bar	260 bar
NG25 - Cetop 08	180 bar	220 bar

ALLUMINIO:

Grandezza	Press. di lavoro	Press. di picco
NG6 - Cetop 03	310 bar	350 bar
NG10 - Cetop 05	270 bar	310 bar

Le piastre sono costruite per l'utilizzo di raccorderia cilindrica e assolutamente non conica.

La garanzia è valida 12 mesi dalla di spedizione della merce.

The products represented in the following catalog are made of cast iron, steel and aluminum alloy.

The operating pressures are as follows:

CAST IRON / STEEL:

Size	Working pressure	Peak pressure
NG6 - Cetop 03	310 bar	350 bar
NG10 - Cetop 05	270 bar	310 bar
NG16 - Cetop 07	220 bar	260 bar
NG25 - Cetop 08	180 bar	220 bar

ALUMINUM:

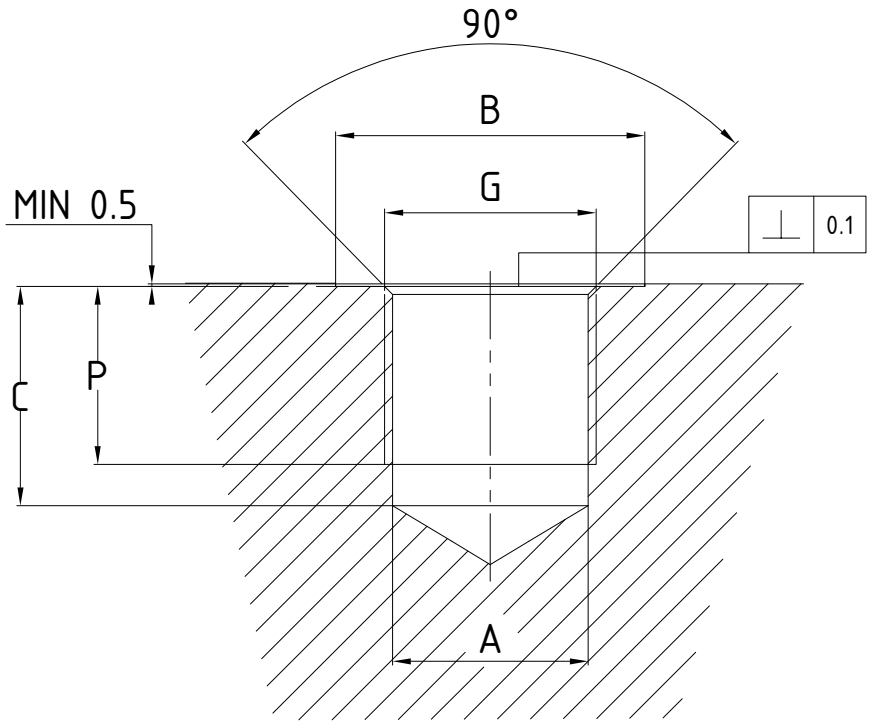
Size	Working pressure	Peak pressure
NG6 - Cetop 03	310 bar	350 bar
NG10 - Cetop 05	270 bar	310 bar

The plates are built for the use of cylindrical fittings and absolutely non-conical fittings.

The warranty is valid for 12 months from the shipment of the goods.

NOTE TECNICHE
NOTE TECHNIQUES
TECHNICAL NOTES
TECHNISCHE ANMERKUNGEN
UNI–ISO 228

Filettatura Filetage Threads Gewinde G	ø A -0 +0.2	C +0.5 -1.0	P +2.0 -0.5	ø B +1.0 +0	PASSO (Rev. x 1")
G 1/8" (9.7)	8.5	14	10	17	28
G 1/4" (13.1)	11.5	16	12	22	19
G 3/8" (16.6)	15	17	12.5	25	19
G 1/2" (20.9)	18.8	20	15	29	14
G 3/4" (26.4)	24.3	22	17	36	14
G 1" (33.2)	30.3	28	21	46	11
G 1" 1/4 (41.9)	39.2	30	23	55	11
G 1" 1/2 (47.8)	45	32	25	64	11
G 2" (59.6)	57	36	28	75	11



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