LA POMPA VIENE FORNITA CON LEVA DI AZIONAMENTO L=600 mm

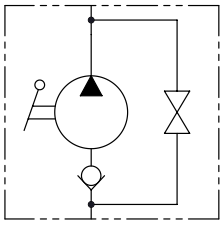
THE PUMP IS SUPPLIED WITH ACTING LEVER 23,6 inch LONG

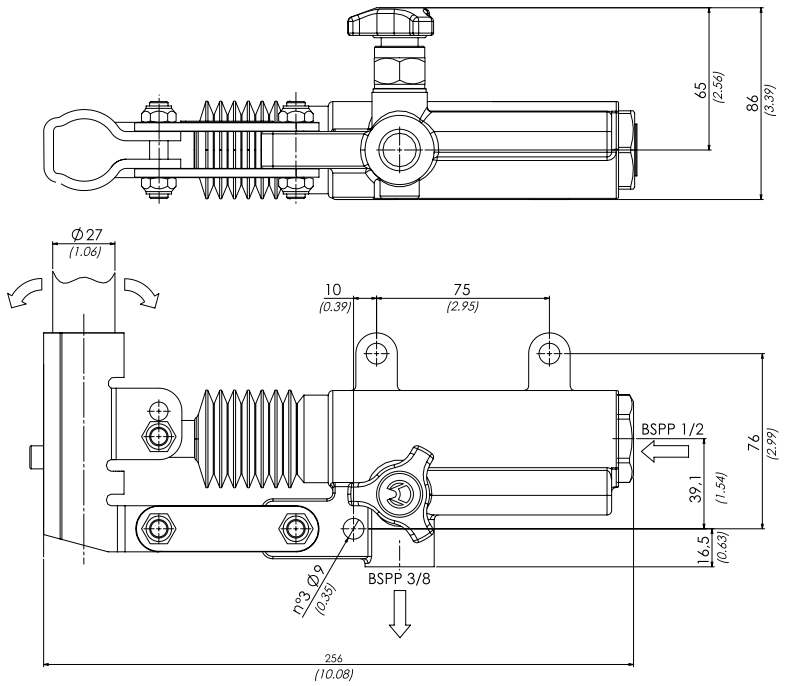
CODICE ORDINAZIONE / ORDERING CODE

01	02	03
PM20		

01	POMPA A MANO SEMPLICE EFFETTO DOUBLE PUMPING HAND PUMP FOR SINGLE ACTING CYLINDER		**PM20**
02	OPTIONAL	Senza soffietto - Without rubber protection	
		Con soffietto - With rubber protection	**P**
03	OPTIONAL	Senza rubinetto di scarico con valvola di massima Without unloading valve With relief valves	**WRV**
		Senza rubinetto di scarico - Without unloading valve	**W**
		Con joystick - With joystick	**J**
		Con leva di scarico Ø 27 mm With unloading lever Ø 1.06 inch	**L**
		Con rubinetto di scarico e valvola di massima With drain valve and relief valve	**RRV**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT





mm / (Inches)

DATI TECNICI / TECHNICAL DATA

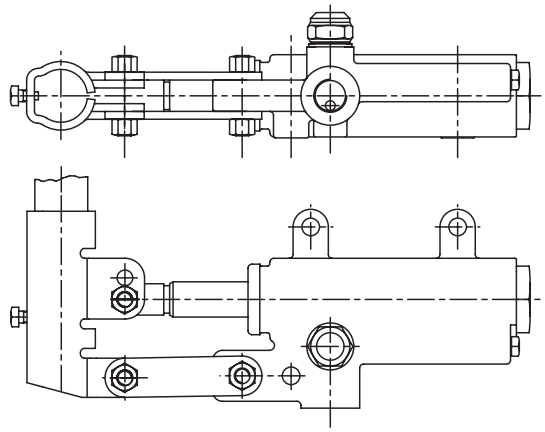
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile la presenza di un filtro nel circuito idraulico per proteggere la valvola (filtrazione consigliata 15 µm)
A filter into the hydraulic circuit necessary to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	CILINDRATA (cm³) DISPLACEMENT (in³)	PRESSIONE OTTIMALE OPTIMAL PRESSURE bar-PSI	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt
PM20	**20** (1.22)	**150** (2175)	**350** (5075)	**3,4** (7.5)

WRV

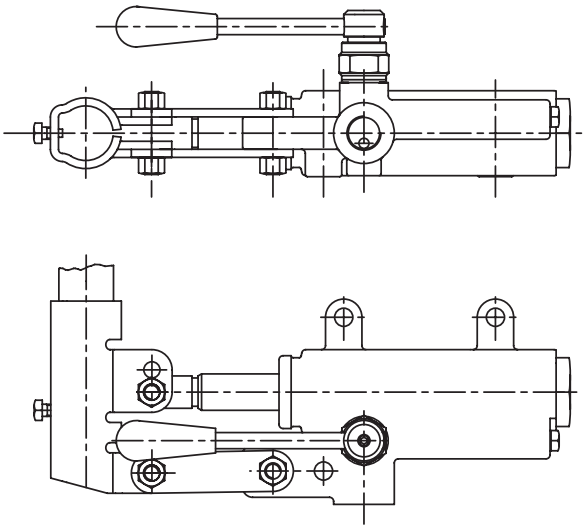


Valvola di massima
Relief valve

Molla 40/350 bar
Spring 580/5075 PSI

Taratura Standard 100 bar
Standard Setting 1500 PSI

L



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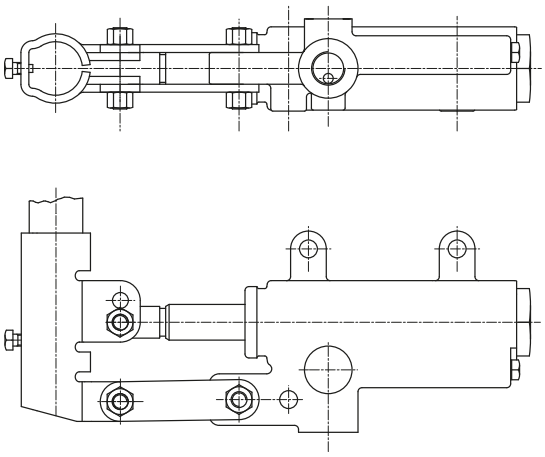
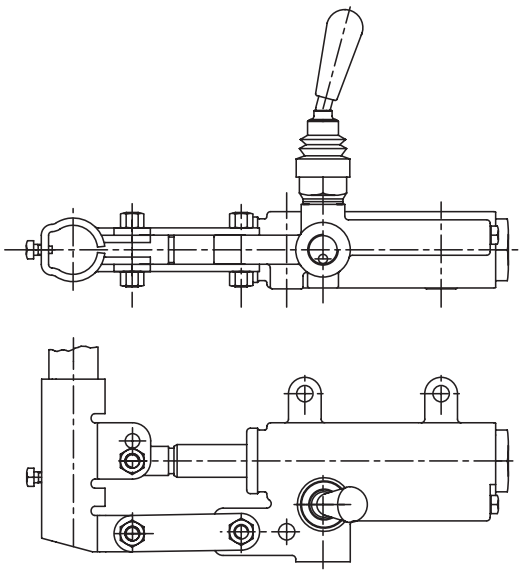
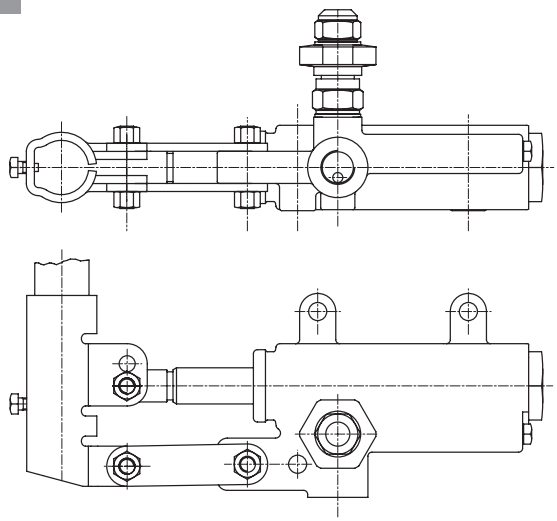


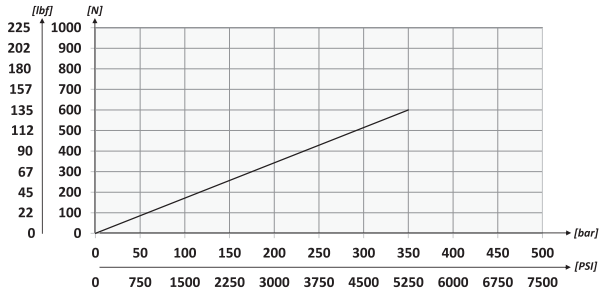
J



RRV



SFORZO ESERCITATO ALL'ESTREMITÀ DELLA LEVA
EFFORT OPERATING AT THE END OF THE LEVER



LA POMPA VIENE FORNITA CON LEVA DI AZIONAMENTO L=600 mm

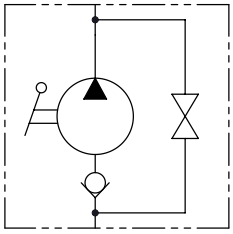
THE PUMP IS SUPPLIED WITH ACTING LEVER 23,6 inch LONG

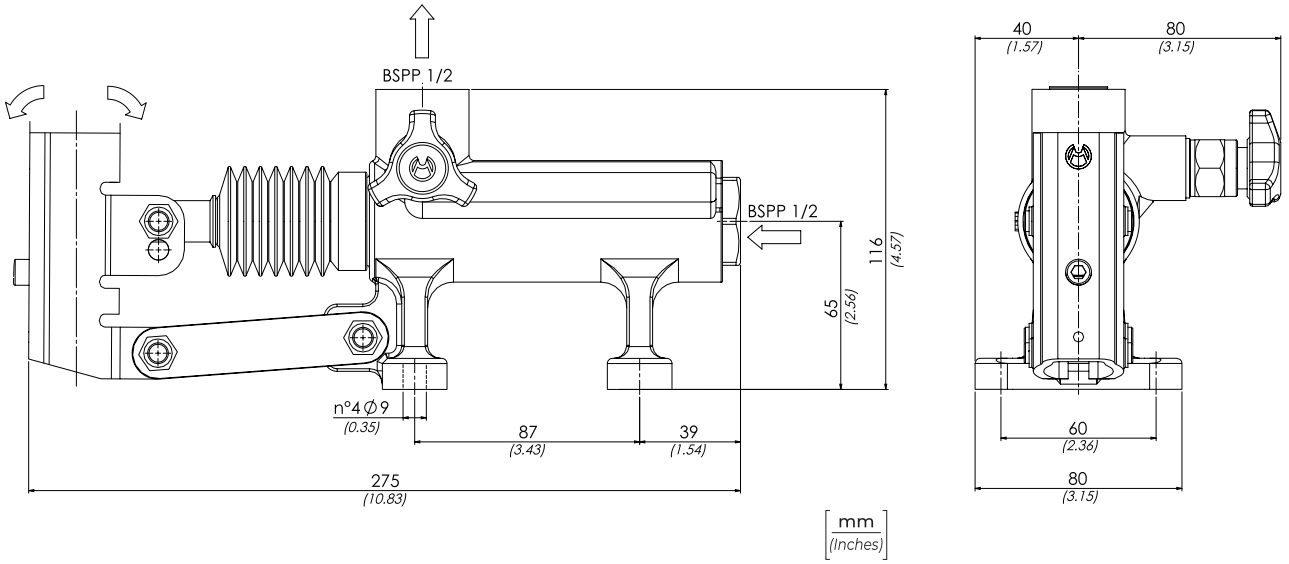
CODICE ORDINAZIONE / ORDERING CODE

01	02	03
PM50		

01	POMPA A MANO DOPPIO POMPAGGIO PER CILINDRO A SEMPLICE EFFETTO DOUBLE PUMPING FOR SINGLE ACTING CYLINDER		**PM50**
02	OPTIONAL	Senza soffietto Without rubber protection	
		Con soffietto With rubber protection	**P**
03	OPTIONAL	Senza rubinetto di scarico con valvola di massima Without unloading valve With relief valves	**WRV**
		Senza rubinetto di scarico Without unloading valve	**W**
		Con joystick With joystick	**J**
		Con leva di scarico Ø 27 mm With unloading lever Ø 1.06 inch	**L**
		Con rubinetto di scarico e valvola di massima With drain valve and relief valve	**RRV**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT





DATI TECNICI / TECHNICAL DATA

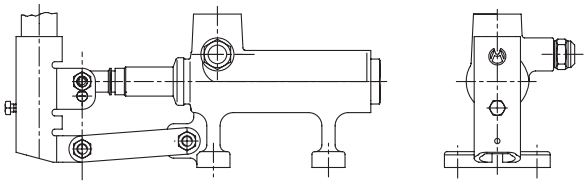
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile la presenza di un filtro nel circuito idraulico per proteggere la valvola (filtrazione consigliata 15 µm)
A filter into the hydraulic circuit necessary to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	CILINDRATA (cm³) DISPLACEMENT (in³)	PRESSIONE OTTIMALE OPTIMAL PRESSURE bar-PSI	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt
PM50	**50** (3.05)	**80** (1160)	**280** (4060)	**4,2** (9.25)

WRV

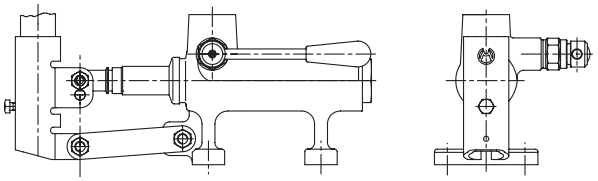


Valvola di massima
Relief valve

Molla 40/350 bar
Spring 580/5075 PSI

Taratura Standard 100 bar
Standard Setting 1450 PSI

L



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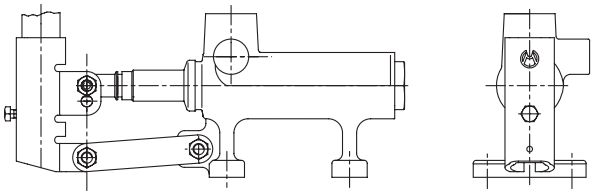
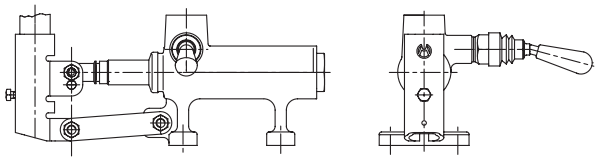
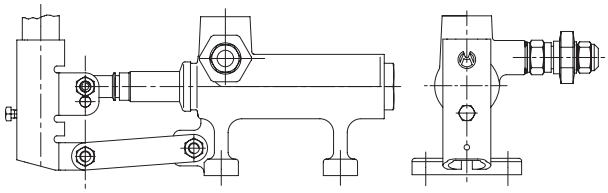


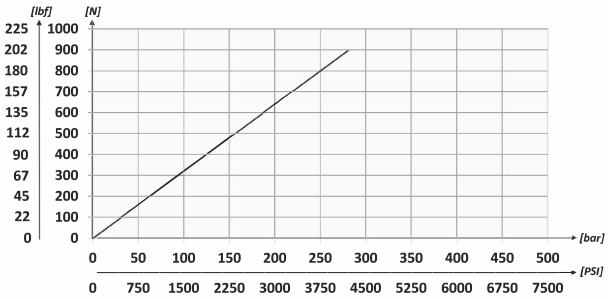
J



RRV



SFORZO ESERCITATO ALL'ESTREMITÀ DELLA LEVA
EFFORT OPERATING AT THE END OF THE LEVER



LA POMPA VIENE FORNITA CON LEVA DI AZIONAMENTO L=600 mm

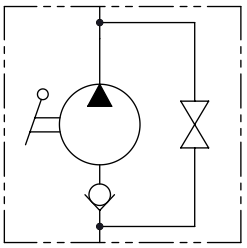
THE PUMP IS SUPPLIED WITH ACTING LEVER 23,6 inch LONG

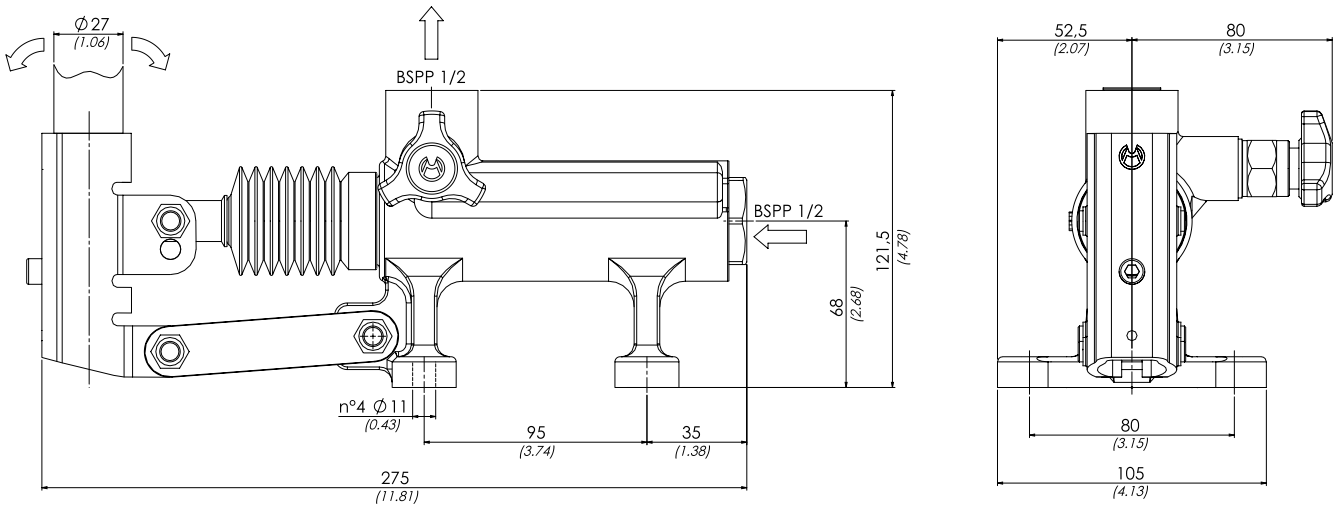
CODICE ORDINAZIONE / ORDERING CODE

01	02	03
PM70		

01	POMPA A MANO DOPPIO POMPAGGIO PER CILINDRO A SEMPLICE EFFETTO DOUBLE PUMPING HAND PUMPFOR SINGLE ACTING CYLINDER		**PM70**
02	OPTIONAL	Senza soffietto - Without rubber protection	
		Con soffietto - With rubber protection	**P**
03	OPTIONAL	Senza rubinetto di scarico con valvola di massima Without unloading valve With relief valves	**WRV**
		Senza rubinetto di scarico - Without unloading valve	**W**
		Con joystick - With joystick	**J**
		Con leva di scarico Ø 27 mm With unloading lever Ø 1.06 inch	**L**
		Con rubinetto di scarico e valvola di massima With drain valve and relief valve	**RRV**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT





DATI TECNICI / TECHNICAL DATA

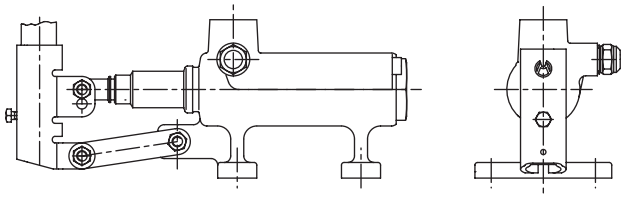
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile la presenza di un filtro nel circuito idraulico per proteggere la valvola (filtrazione consigliata 15 µm)
A filter into the hydraulic circuit necessary to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	CILINDRATA (cm³) DISPLACEMENT (in³)	PRESSIONE OTTIMALE OPTIMAL PRESSURE bar-PSI	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt
PM70	**70** (4.27)	**50** (725)	**200** (2900)	**5,6** (12.34)

WRV

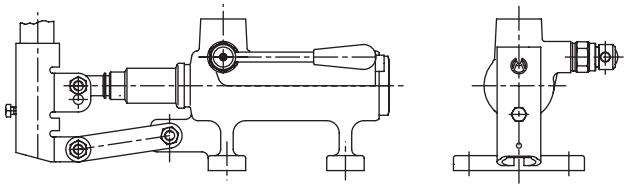


Valvola di massima
Relief valve

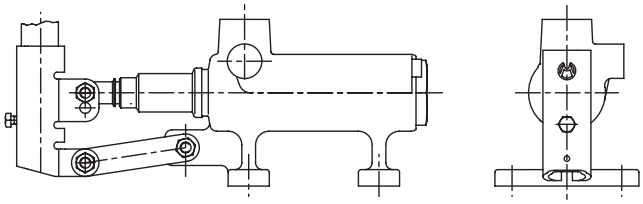
Molla 40/350 bar
Spring 580/5075 PSI

Taratura Standard 100 bar
Standard Setting 1450 PSI

L



W



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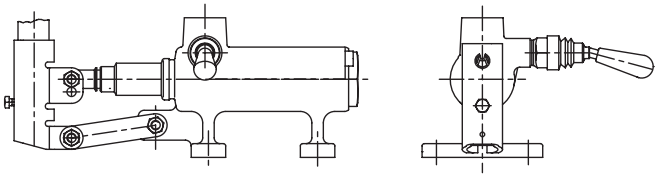
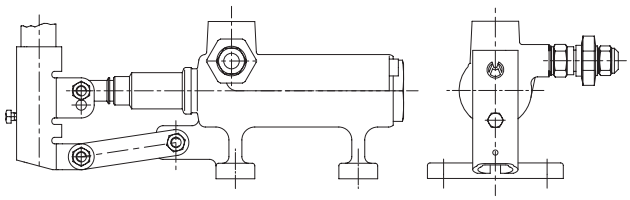
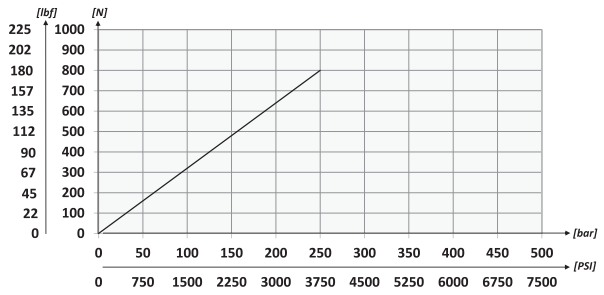


RRV



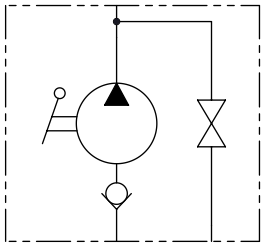
SFORZO ESERCITATO ALL'ESTREMITÀ DELLA LEVA
EFFORT OPERATING AT THE END OF THE LEVER

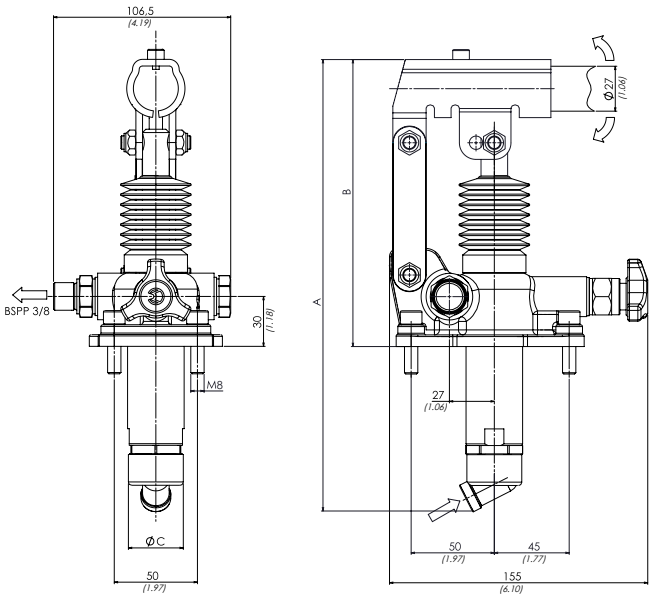


LA POMPA VIENE FORNITA CON GUARNIZIONE SAGOMATA + VITI DI FISSAGGIO + LEVA DI AZIONAMENTO L=600 mm

THE PUMP IS SUPPLIED WITH SHAPED SEAL, FIXING SCREWS AND ACTING LEVER 23.6 inch LONG

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT





mm
(Inches)

CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04
PMS			

01	POMPA A MANO DOPPIO POMPAGGIO PER CILINDRO A SEMPLICE EFFETTO DOUBLE PUMPING HAND PUMP FOR SINGLE ACTING CYLINDER				**PMS**
02	CILINDRATA DISPLACEMENT	mm - inch A	B	C	
	6 cm³ (0.37 in³)	**253** (9.96)	**166** (6.54)	**34** (1.34)	**6**
	12 cm³ (0.73 in³)	**253** (9.96)	**166** (6.54)	**34** (1.34)	**12**
	25 cm³ (1.53 in3)	**273** (10.75)	**172** (6.77)	**34** (1.34)	**25**
	45 cm³ (2.75 in3)	**283** (11.14)	**172** (6.77)	**40** (1.57)	**45**
03	OPTIONAL	Senza soffietto - Without rubber protection			
		Con soffietto - With rubber protection			**P**
04	OPTIONAL	Senza rubinetto di scarico con valvola di massima Without unloading valve With relief valves			**WRV**
		Senza rubinetto di scarico Without unloading valve			**W**
		Con joystick With joystick			**J**
		Con leva di scarico Ø 27 mm With unloading lever Ø 1.06 inch			**L**
		Con valvola di massima pressione With relief valves			**RV**
		Con joystick e valvola di massima pressione With joystick and relief valve			**JRV**
		Con leva di scarico e valvola di massima pressione With unloading lever and relief valvess			**LRV**

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	PRESSIONE OTTIMALE OPTIMAL PRESSURE bar-PSI	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt
PMS6	**420** (6090)	**500** (7250)	**3,7** (8.15)
PMS12	**220** (3190)	**380** (5510)	
PMS25	**120** (1740)	**350** (5075)	
PMS45	**80** (1160)	**280** (4060)	

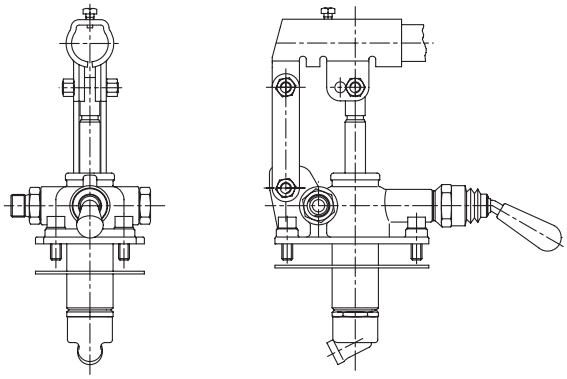
DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C** -4°F + 122°F

È indispensabile la presenza di un filtro nel circuito idraulico per proteggere la valvola (filtrazione consigliata 15 µm)

A filter into the hydraulic circuit necessary to protect the valve (advised filtration 15 µm)

J



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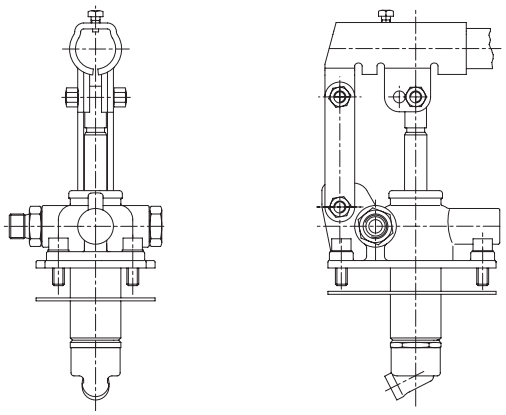
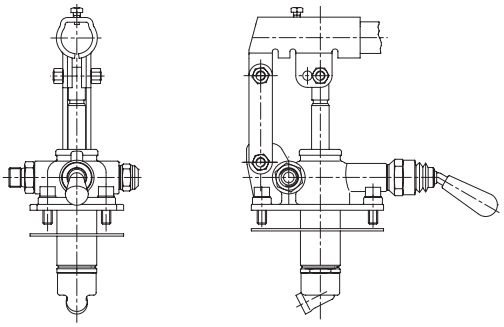
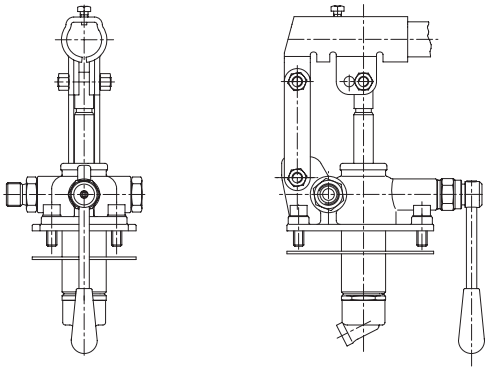


JRV

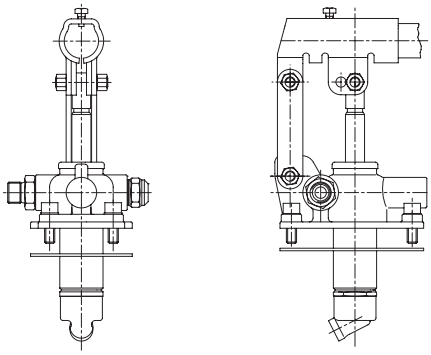


Valvola di massima Relief valve | **Molla 40/350 bar** Spring 580/5075 PSI | **Taratura Standard 100 bar** Standard Setting 1450 PSI

L

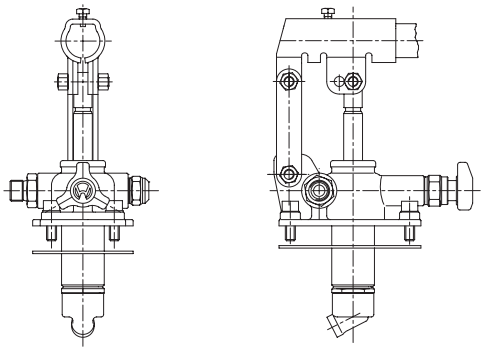


WRV



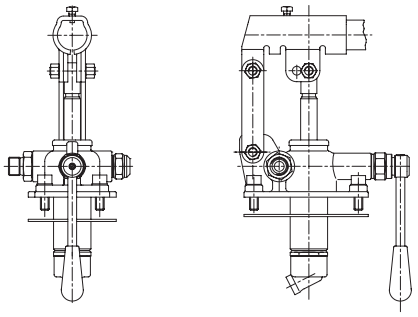
Valvola di massima Relief valve | **Molla 40/350 bar** Spring 580/5075 PSI | **Taratura Standard 100 bar** Standard Setting 1450 PSI

RV



Valvola di massima Relief valve | **Molla 40/350 bar** Spring 580/5075 PSI | **Taratura Standard 100 bar** Standard Setting 1450 PSI

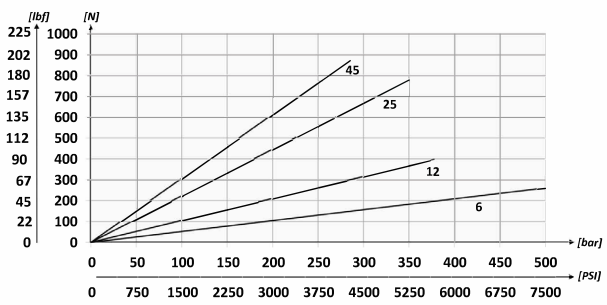
LRV



Valvola di massima Relief valve | **Molla 40/350 bar** Spring 580/5075 PSI | **Taratura Standard 100 bar** Standard Setting 1450 PSI

SFORZO ESERCITATO ALL'ESTREMITÀ DELLA LEVA

EFFORT OPERATING AT THE END OF THE LEVER



LA POMPA VIENE FORNITA CON GUARNIZIONE SAGOMATA + VITI DI FISSAGGIO + LEVA DI AZIONAMENTO L=600 mm

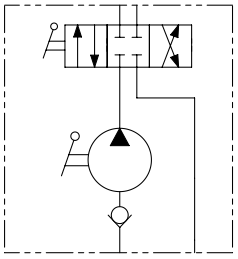
THE PUMP IS SUPPLIED WITH SHAPED SEAL, FIXING SCREWS AND ACTING LEVER 23.6 inch LONG

CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04
PMI			

01	POMPA A MANO DOPPIO POMPAGGIO PER CILINDRO A DOPPIO EFFETTO - CENTRO CHIUSO DOUBLE PUMPING HAND PUMP FOR DOUBLE ACTING CYLINDER - CLOSED CENTER				**PMI**
02	CILINDRATA DISPLACEMENT	mm - inch A	 B	 C	
	6 cm³ (0.37 in³)	**253** (9.96)	**166** (6.54)	**34** (1.34)	**6**
	12 cm³ (0.73 in³)	**253** (9.96)	**166** (6.54)	**34** (1.34)	**12**
	25 cm³ (1.53 in₃)	**273** (10.75)	**172** (6.77)	**34** (1.34)	**25**
	45 cm³ (2.75 in³)	**283** (11.14)	**172** (6.77)	**40** (1.57)	**45**
03	OPTIONAL	Senza soffietto - Without rubber protection			
		Con soffietto - With rubber protection			**P**
04	OPTIONAL	Con leva di scarico Ø 27 mm With unloading lever Ø 1.06 inch			**L**
		Con valvola di massima pressione With relief valves			**RV**
		Con leva di scarico e valvola di massima pressione With unloading lever and relief valves			**LRV**

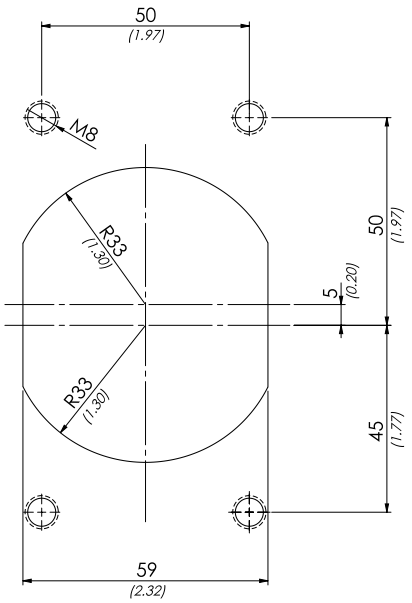
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

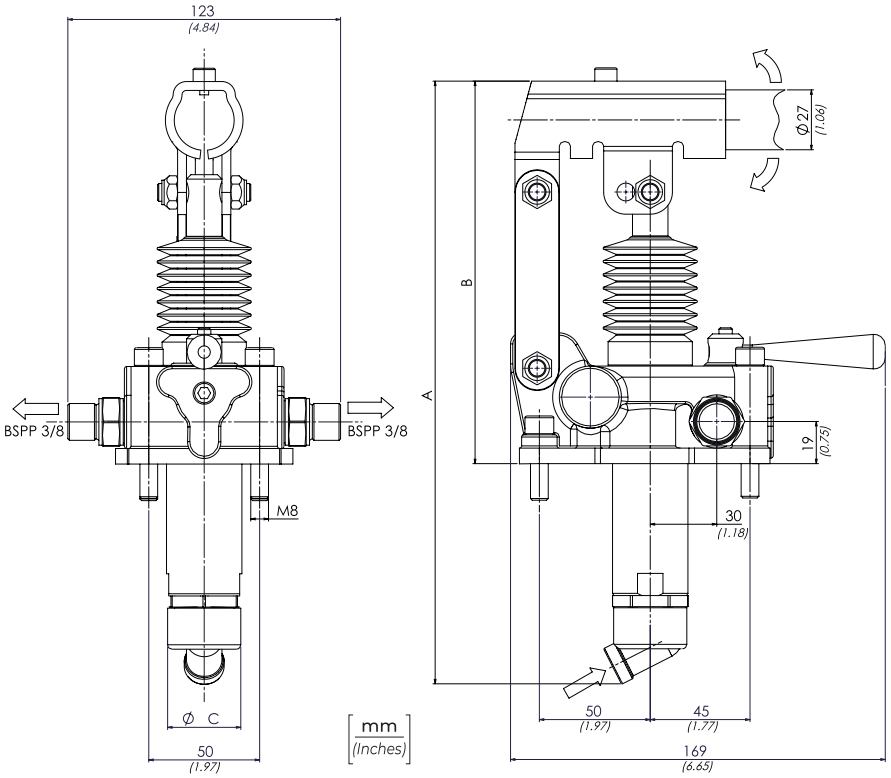


DATI TECNICI / TECHNICAL DATA

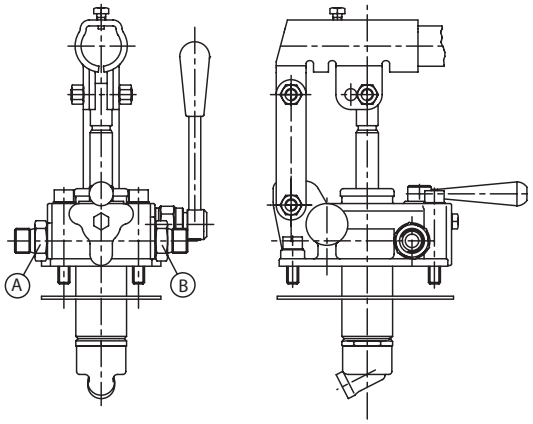
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile la presenza di un filtro nel circuito idraulico per proteggere la valvola (filtrazione consigliata 15 µm)
A filter into the hydraulic circuit necessary to protect the valve (advised filtration 15 µm)

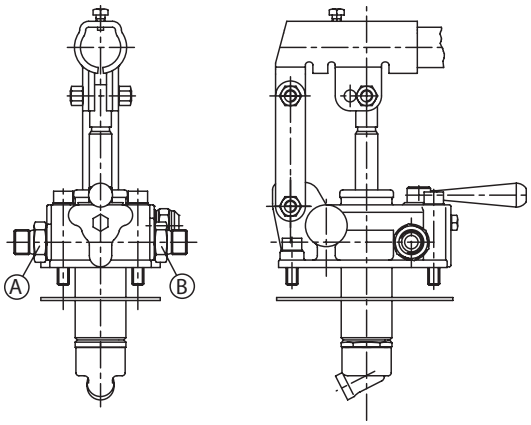




L



RV

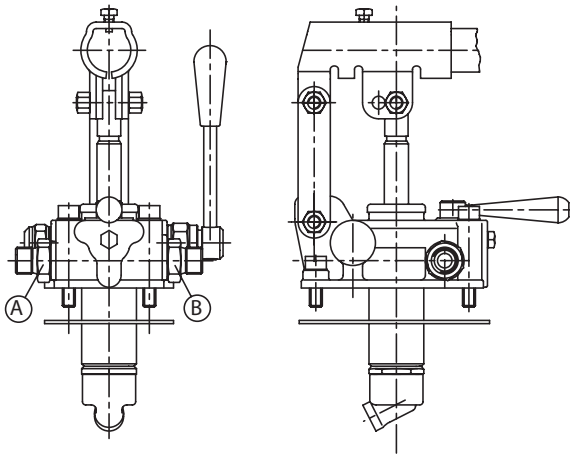


Valvola di massima
Relief valve

Molla 40/350 bar
Spring 580/5075 PSI

Taratura Standard 100 bar
Standard Setting 1450 PSI

LRV

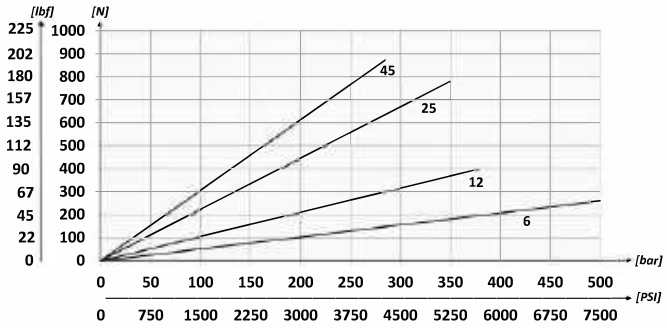


Valvola di massima
Relief valve

Molla 40/350 bar
Spring 580/5075 PSI

Taratura Standard 100 bar
Standard Setting 1450 PSI

SFORZO ESERCITATO ALL'ESTREMITÀ DELLA LEVA
EFFORT OPERATING AT THE END OF THE LEVER



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	PRESSIONE OTTIMALE OPTIMAL PRESSURE bar-PSI	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX APPROX WEIGHT kg-lbt
PMI6	**420** (6090)	**500** (7250)	**4,20** (9.25)
PMI12	**220** (3190)	**380** (5510)	
PMI25	**120** (1740)	**350** (5075)	
PMI45	**80** (1160)	**280** (4060)	

LA POMPA VIENE FORNITA CON GUARNIZIONE SAGOMATA + VITI DI FISSAGGIO + LEVA DI AZIONAMENTO Ø 27 MM L=600 mm

THE PUMP IS SUPPLIED WITH SHAPED SEAL, FIXING SCREWS AND ACTING LEVER Ø 1,06 INCH 23 inch LONG

CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04
PMT			

01	POMPA A MANO DOPPIO POMPAGGIO PER CILINDRO A DOPPIO EFFETTO CON VALVOLE DI BLOCCO DOUBLE PUMPING HAND PUMP WITH CHECK VALVES FOR DOUBLE ACTING CYLINDER				**PMT**
02	CILINDRATA DISPLACEMENT	mm - inch A	 B	 C	
	6 cm³ (0.37 in³)	**253** (9.96)	**166** (6.54)	**34** (1.34)	**6**
	12 cm³ (0.73 in³)	**253** (9.96)	**166** (6.54)	**34** (1.34)	**12**
	25 cm³ (1.53 in³)	**273** (10.75)	**172** (6.77)	**34** (1.34)	**25**
	45 cm³ (2.75 in³)	**283** (11.14)	**172** (6.77)	**40** (1.57)	**45**
03	OPTIONAL	Senza soffietto - Without rubber protection			
		Con soffietto - With rubber protection			**P**
04	OPTIONAL	Con valvola di massima pressione su A e B With relief valves on A and B			**RVAB**
		Con valvola di massima pressione su B With relief valves on B			**RVB**

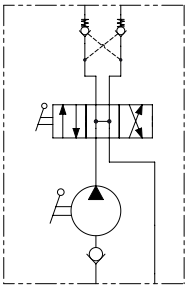
DATI TECNICI / TECHNICAL DATA

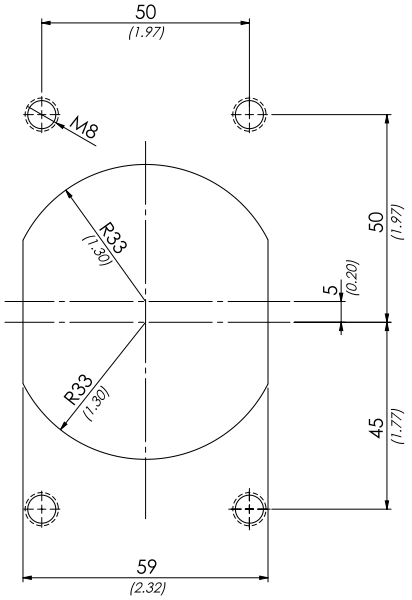
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

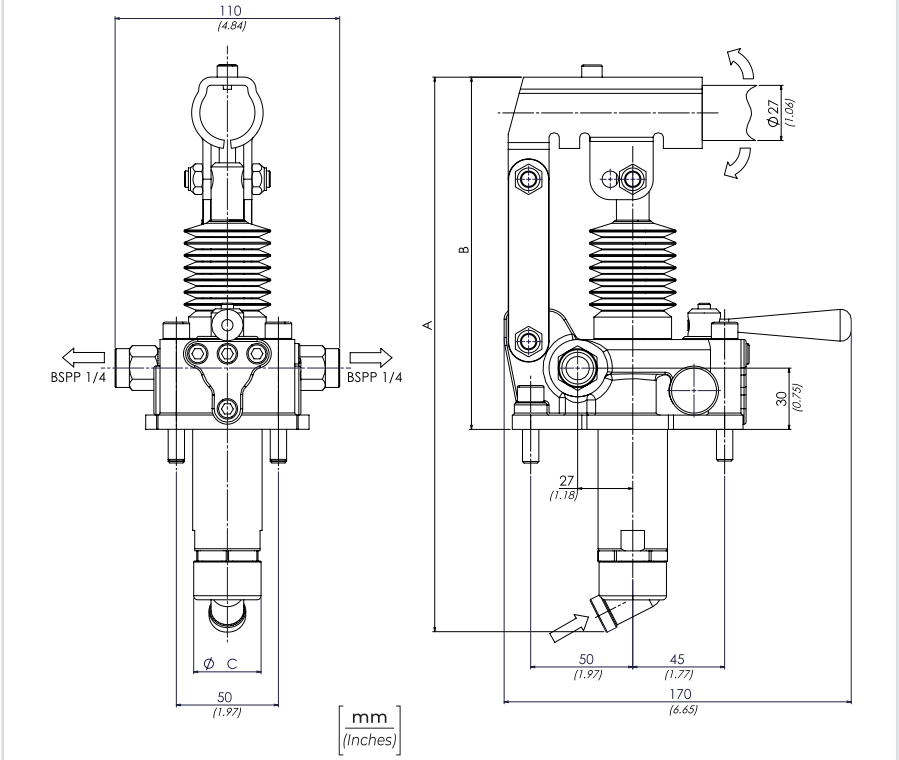
È indispensabile la presenza di un filtro nel circuito idraulico per proteggere la valvola (filtrazione consigliata 15 µm)

A filter into the hydraulic circuit necessary to protect the valve (advised filtration 15 µm)

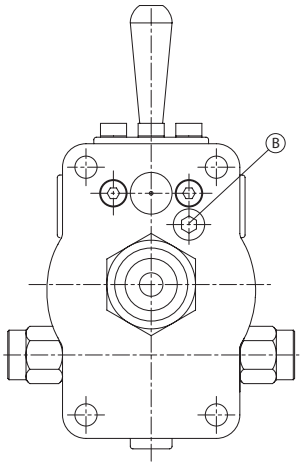
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT







RVB

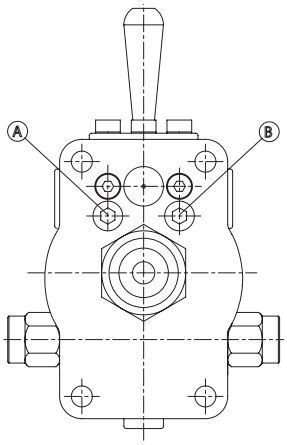


Valvola di massima
Relief valve

Molla 40/350 bar
Spring 580/5075 PSI

Taratura Standard 100 bar
Standard Setting 1450 PSI

RVAB

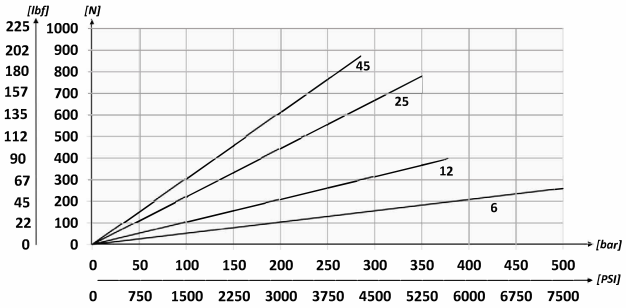


Valvola di massima
Relief valve

Molla 40/350 bar
Spring 580/5075 PSI

Taratura Standard 100 bar
Standard Setting 1450 PSI

SFORZO ESERCITATO ALL'ESTREMITÀ DELLA LEVA
EFFORT OPERATING AT THE END OF THE LEVER



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	PRESSIONE OTTIMALE OPTIMAL PRESSURE bar-PSI	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt
PMT6	**420** (6090)	**500** (7250)	**4,20** (9.25)
PMT12	**220** (3190)	**380** (5510)	
PMT25	**120** (1740)	**350** (5075)	
PMT45	**80** (1160)	**280** (4060)	

LA POMPA VIENE FORNITA CON GUARNIZIONE SAGOMATA + VITI DI FISSAGGIO + LEVA DI AZIONAMENTO L=600 mm

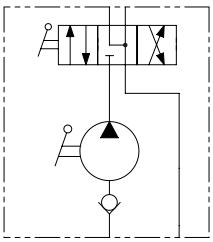
THE PUMP IS SUPPLIED WITH SHAPED SEAL, FIXING SCREWS AND ACTING LEVER 23.6 inch LONG

CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04
PMA			

01	POMPA A MANO DOPPIO POMPAGGIO PER CILINDRO A DOPPIO EFFETTO - CENTRO APERTO DOUBLE PUMPING HAND PUMP FOR DOUBLE ACTING CYLINDER - OPEN CENTER				**PMA**
02	CILINDRATA DISPLACEMENT	mm - inch A	 B	 C	
	6 cm³ (0.37 in³)	**253** (9.96)	**166** (6.54)	**34** (1.34)	**6**
	12 cm³ (0.73 in³)	**253** (9.96)	**166** (6.54)	**34** (1.34)	**12**
	25 cm³ (1.53 in³)	**273** (10.75)	**172** (6.77)	**34** (1.34)	**25**
	45 cm³ (2.75 in³)	**283** (11.14)	**172** (6.77)	**40** (1.57)	**45**
03	OPTIONAL	Senza soffietto - Without rubber protection			
		Con soffietto - With rubber protection			**P**
04	OPTIONAL	Con leva di scarico Ø 27 mm With unloading lever Ø 1.06 inch			**L**
		Con valvola di massima pressione su A e B With relief valves on A and B			**RV**
		Con leva di scarico e valvola di massima pressione With unloading lever and relief valves			**LRV**

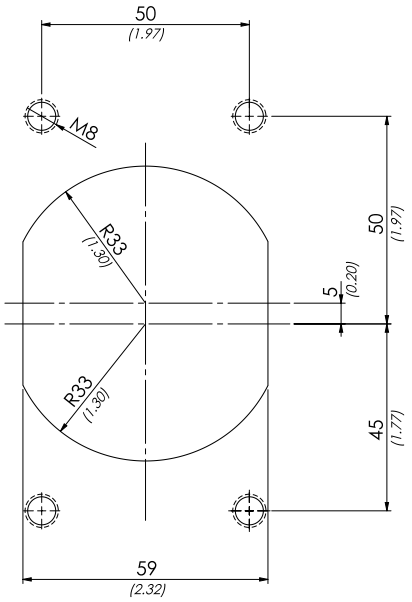
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

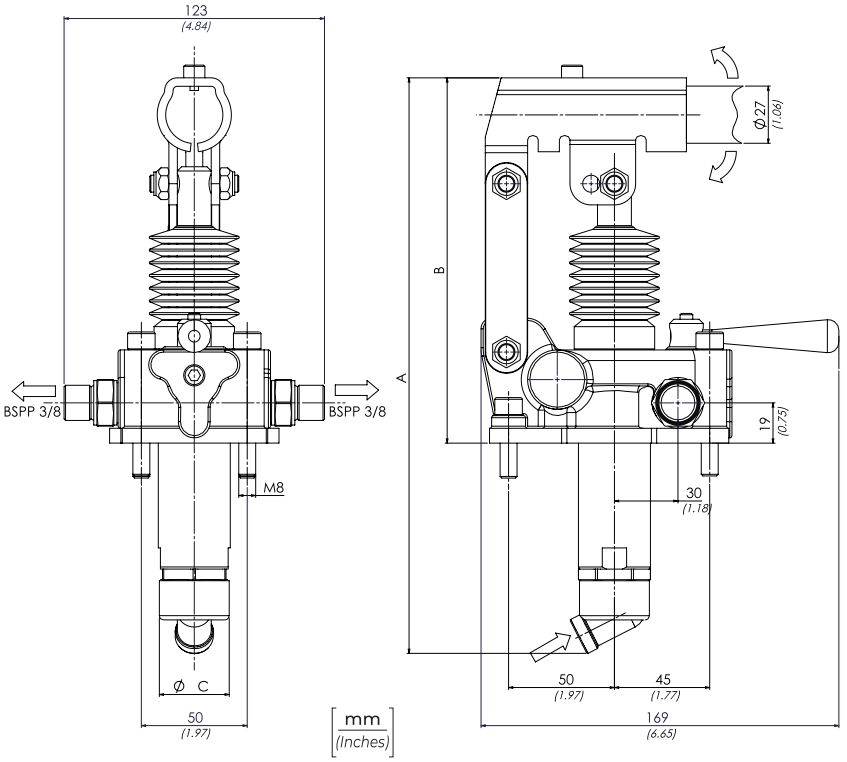


DATI TECNICI / TECHNICAL DATA

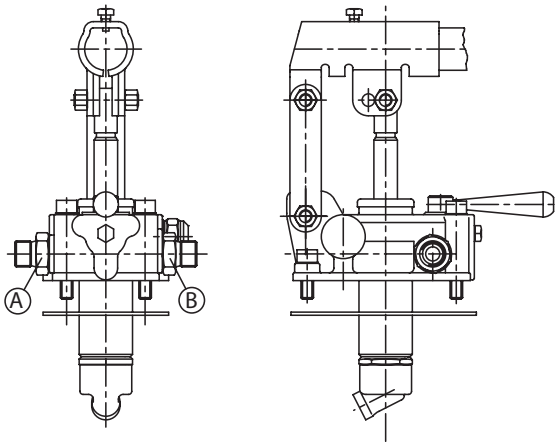
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile la presenza di un filtro nel circuito idraulico per proteggere la valvola (filtrazione consigliata 15 µm)
A filter into the hydraulic circuit necessary to protect the valve (advised filtration 15 µm)





RV

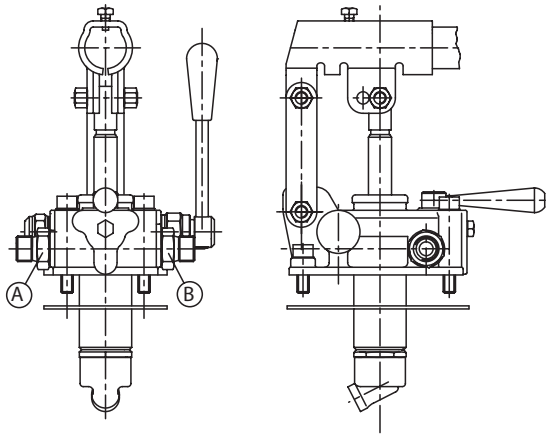


Valvola di massima
Relief valve

Molla 40/350 bar
Spring 580/5075 PSI

Taratura Standard 100 bar
Standard Setting 1450 PSI

LRV

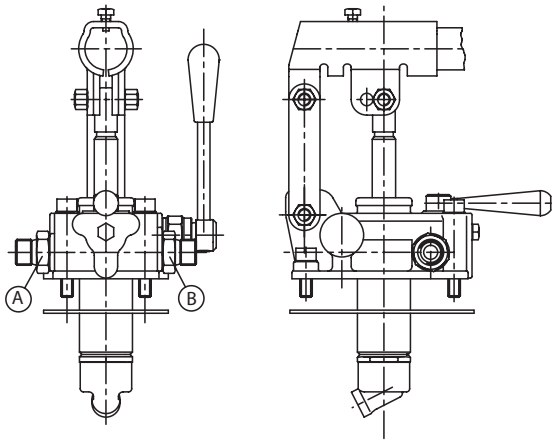


Valvola di massima
Relief valve

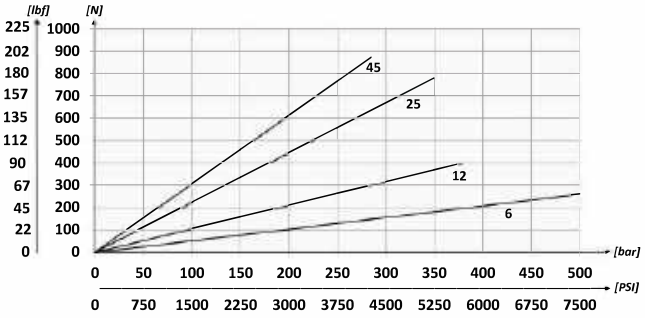
Molla 40/350 bar
Spring 580/5075 PSI

Taratura Standard 100 bar
Standard Setting 1450 PSI

L



SFORZO ESERCITATO ALL'ESTREMITÀ DELLA LEVA
EFFORT OPERATING AT THE END OF THE LEVER



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	**PRESSIONE OTTIMALE** OPTIMAL PRESSURE bar-PSI	**PRESSIONE MAX** (bar) MAX PRESSURE (PSI)	**PESO APPROX** (kg) APPROX WEIGHT (lbt)
PMA6	**420** (6090)	**500** (7250)	**4,20** (9.25)
PMA12	**220** (3190)	**380** (5510)	
PMA25	**120** (1740)	**350** (5075)	
PMA45	**80** (1160)	**280** (4060)	

LA POMPA VIENE FORNITA CON GUARNIZIONE SAGOMATA
+ VITI DI FISSAGGIO
+ LEVA DI AZIONAMENTO Ø 20 MM L=500 mm

LA MANDATA LA SI OTTIENE SOLAMENTE
AZIONANDO LA LEVA VERSO IL BASSO

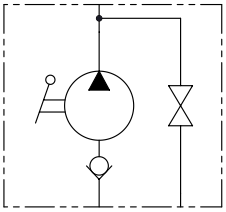
THE PUMP IS SUPPLIED WITH SHAPED SEAL,
FIXING SCREWS AND ACTING LEVER Ø 0.79 17,7 inch LONG.
OIL FLOW LEVER ACTION DOWNWARDS ONLY

CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04
PME1			

01	POMPA A MANO SINGOLO POMPAGGIO VERSO IL BASSO PER CILINDRO A SEMPLICE EFFETTO SINGLE DOWNWARD PUMPING HAND PUMP FOR SINGLE ACTING CYLINDER		**PME1**
02	CILINDRATA DISPLACEMENT	**8 cm³** (0.49 in³)	**8**
		15 cm³ (0.92 in³)	**15**
03	OPTIONAL	Senza soffietto - Without rubber protection	
		Con soffietto - With rubber protection	**P**
04	OPTIONAL	Senza rubinetto di scarico con valvola di massima Without unloading valve With relief valves	**WRV**
		Senza rubinetto di scarico - Without unloading valve	**W**
		Con valvola di massima pressione With relief valves	**RV**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



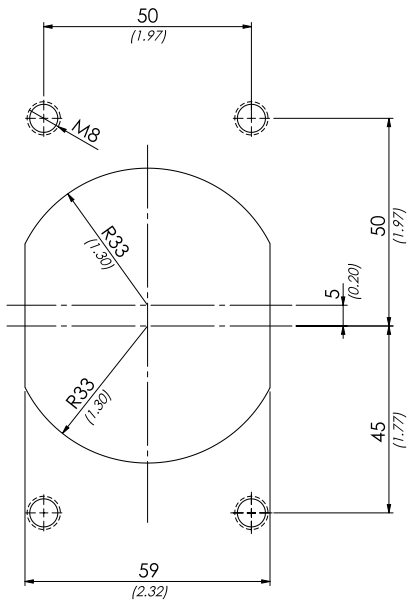
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

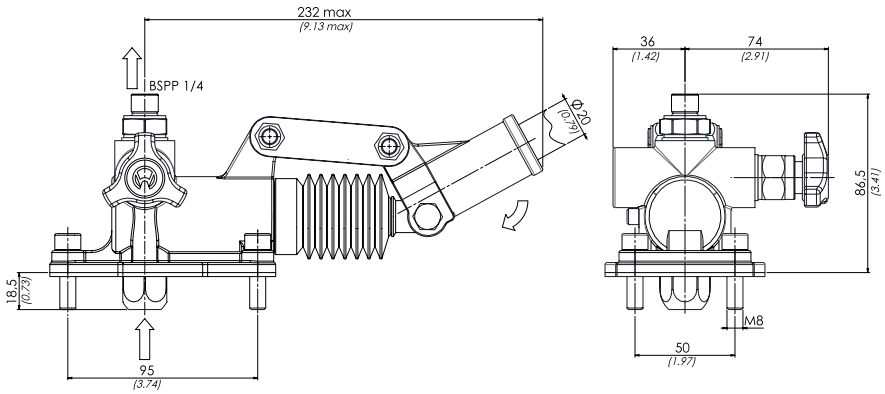
TIPO TYPE	PRESSIONE OTTIMALE OPTIMAL PRESSURE bar-PSI	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt
PME18	**180** (2610)	**380** (5510)	**2,9** (6.39)
PME115	**110** (1595)	**350** (5075)	

DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

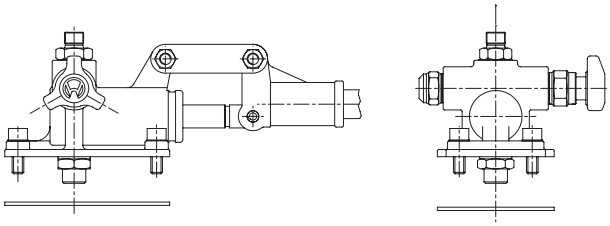
È indispensabile la presenza di un filtro nel circuito idraulico per proteggere la valvola (filtrazione consigliata 15 µm)
A filter into the hydraulic circuit necessary to protect the valve (advised filtration 15 µm)



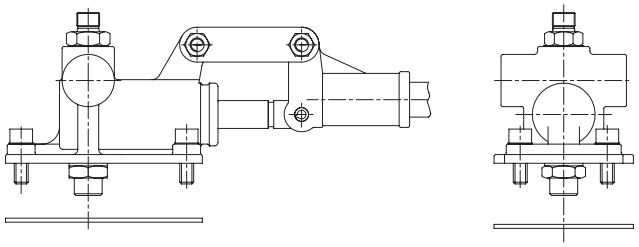


mm
(Inches)

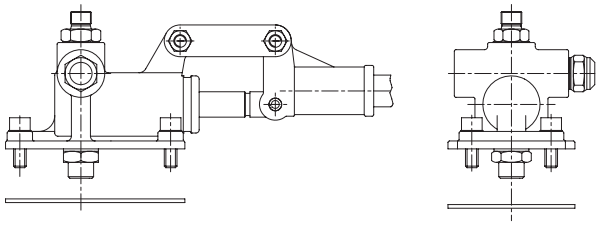
RW



W



WRV

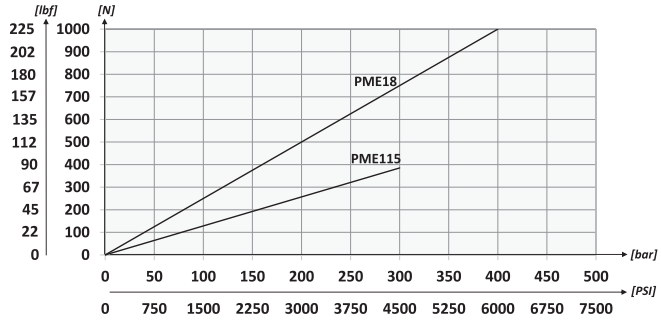


Valvola di massima
Relief valve

Molla 40/350 bar
Spring 580/5075 PSI

Taratura Standard 100 bar
Standard Setting 1450 PSI

SFORZO ESERCITATO ALL'ESTREMITÀ DELLA LEVA
EFFORT OPERATING AT THE END OF THE LEVER

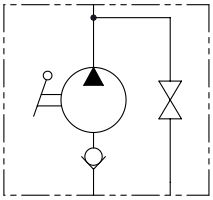


LA POMPA VIENE FORNITA CON GUARNIZIONE SAGOMATA + VITI DI FISSAGGIO + LEVA DI AZIONAMENTO L=600 mm

LA MANDATA LA SI OTTIENE SOLAMENTE AZIONANDO LA LEVA VERSO IL BASSO

THE PUMP IS SUPPLIED WITH SHAPED SEAL, FIXING SCREWS AND ACTING LEVER 23,6 inch LONG. OIL FLOW LEVER ACTION DOWNWARDS ONLY

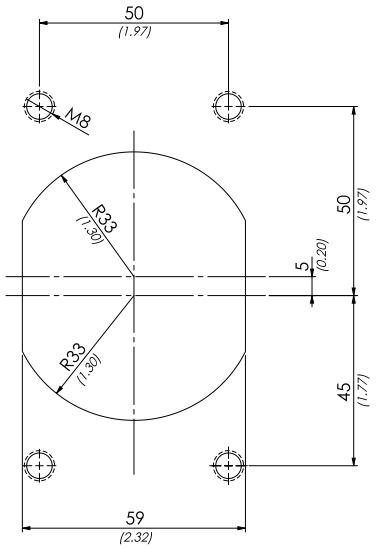
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

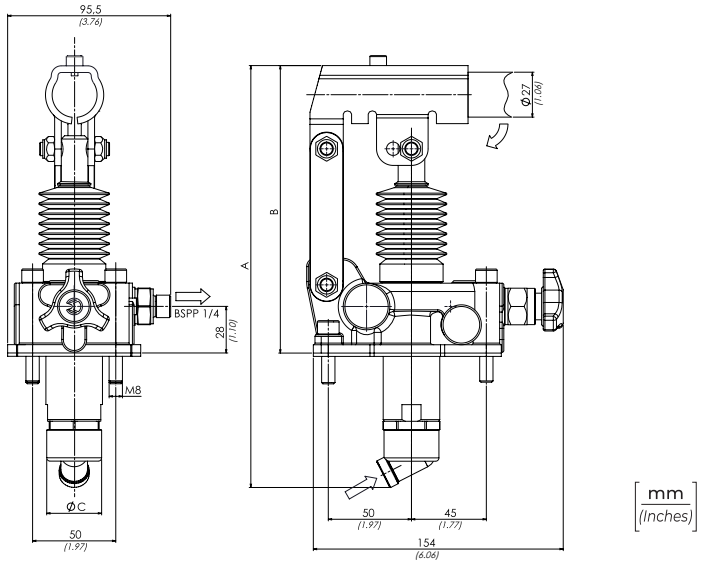


CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04
PME2			

01	POMPA A MANO SINGOLO POMPAGGIO VERSO IL BASSO PER CILINDRO A SEMPLICE EFFETTO SINGLE DOWNWARD PUMPING HAND PUMP FOR SINGLE ACTING CYLINDER				**PME2**
02	CILINDRATA DISPLACEMENT	mm - inch A	 B	 C	
	20 cm³ (1.22 in³)	**249** (9.80)	**167** (6.57)	**34** (1.33)	**20**
	30 cm³ (1.83 in³)	**252** (9.92)	**167** (6.57)	**34** (1.33)	**30**
	40 cm³ (2.44 in³)	**252** (9.92)	**167** (6.57)	**40** (1.57)	**40**
03	OPTIONAL	Senza soffietto - Without rubber protection			
		Con soffietto - With rubber protection			**P**
04	OPTIONAL	Senza rubinetto di scarico con valvola di massima Without unloading valve With relief valves			**WRV**
		Senza rubinetto di scarico Without unloading valve			**W**
		Con leva di scarico - With unloading lever			**L**
		Con valvola di massima pressione With relief valves			**RV**
		Con leva di scarico e valvola di massima pressione With unloading lever and relief valves			**LRV**





DATI TECNICI / TECHNICAL DATA

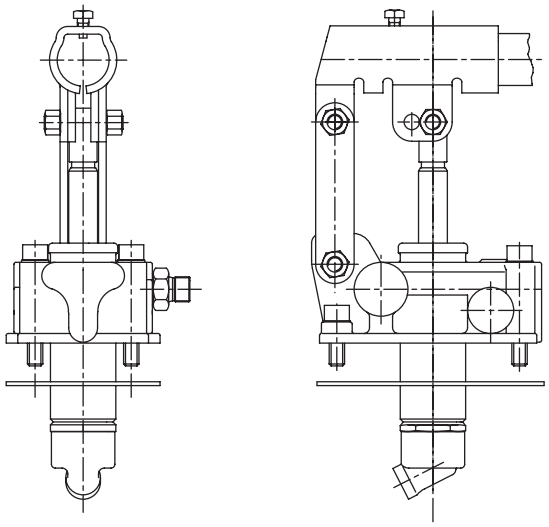
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile la presenza di un filtro nel circuito idraulico per proteggere la valvola (filtrazione consigliata 15 µm)
A filter into the hydraulic circuit necessary to protect the valve (advised filtration 15 µm)

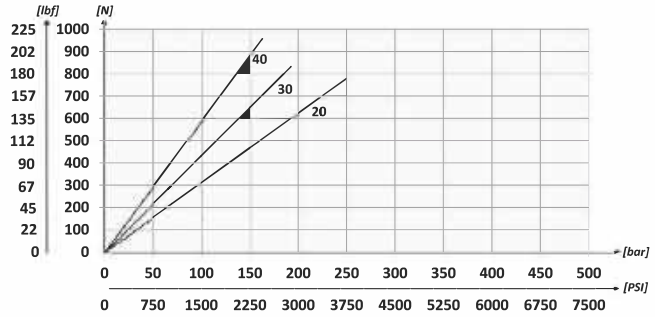
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	PRESSIONE OTTIMALE OPTIMAL PRESSURE bar-PSI	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt
PME220	**80** (1160)	**240** (3480)	**4,2** (9.2)
PME230	**60** (870)	**185** (2683)	
PME240	**40** (580)	**160** (2320)	

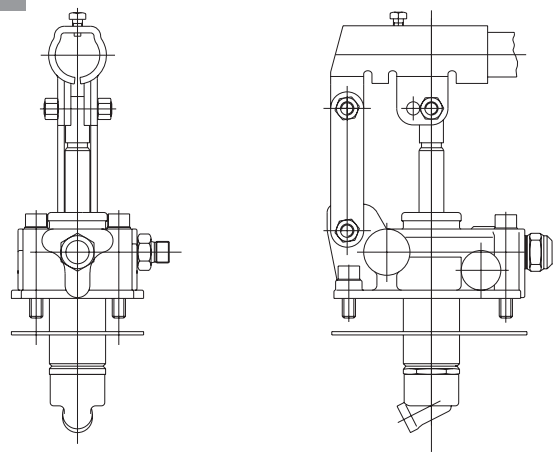
W



SFORZO ESERCITATO ALL'ESTREMITÀ DELLA LEVA
EFFORT OPERATING AT THE END OF THE LEVER



WRV

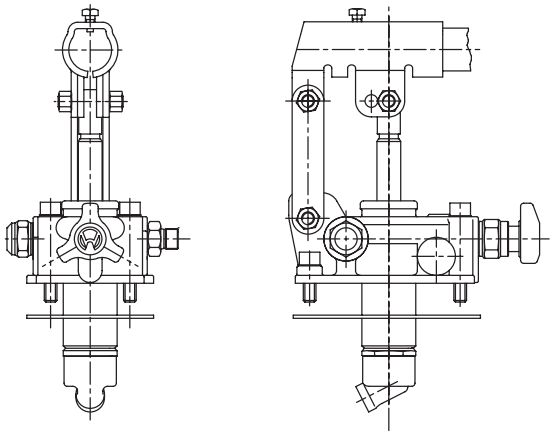


Valvola di massima
Relief valve

Molla 40/350 bar
Spring 580/5075 PSI

Taratura Standard 100 bar
Standard Setting 1450 PSI

RV

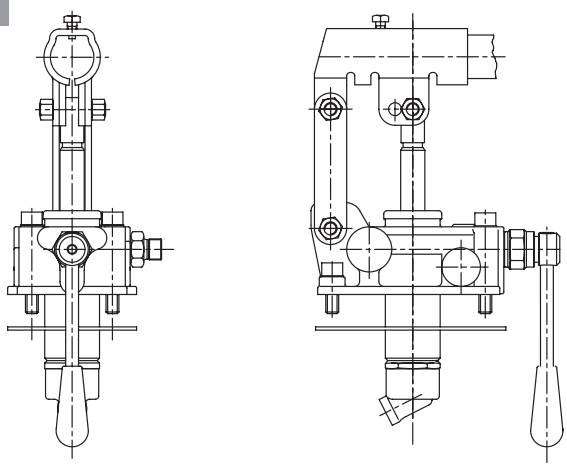


Valvola di massima
Relief valve

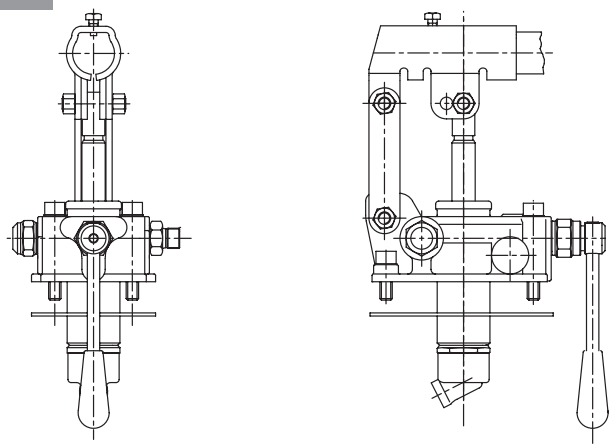
Molla 40/350 bar
Spring 580/5075 PSI

Taratura Standard 100 bar
Standard Setting 1450 PSI

L



LRV



Valvola di massima
Relief valve

Molla 40/350 bar
Spring 580/5075 PSI

Taratura Standard 100 bar
Standard Setting 1450 PSI

LA POMPA VIENE FORNITA CON GUARNIZIONE SAGOMATA + VITI DI FISSAGGIO + LEVA DI AZIONAMENTO L=500 mm

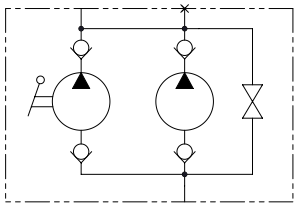
THE PUMP IS SUPPLIED WITH SHAPED SEAL, FIXING SCREWS AND ACTING LEVER 19.7 inch LONG

CODICE ORDINAZIONE / ORDERING CODE

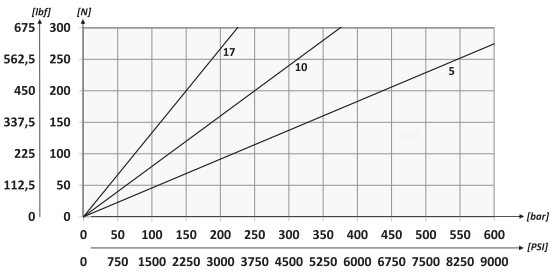
01	02	03
PMD		

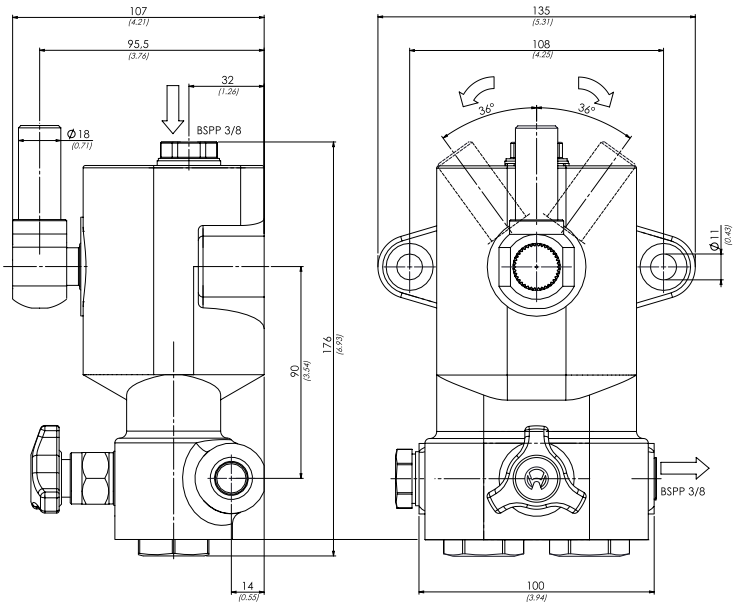
01	POMPA A MANO SEMPLICE EFFETTO DOPPIO POMPANTE (SINGLE ACTING HAND PUMP WITH DOUBLE CYLINDER)		**PMD**
02	CILINDRATA (DISPLACEMENT)	**5 cm³** (0.31 in³)	**5**
		10 cm³ (0.61 in³)	**10**
		17 cm³ (1.04 in³)	**17**
03	OPTIONAL	Senza rubinetto di scarico (Without unloading valve)	**W**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



SFORZO ESERCITATO ALL'ESTREMITÀ DELLA LEVA
EFFORT OPERATING AT THE END OF THE LEVER





mm (Inches)

DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	PRESSIONE OTTIMALE OPTIMAL PRESSURE bar-PSI	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt	CILINDRATA (cm³) DISPLACEMENT (in³)
PMD5	**500** (7250)	**500** (7250)	**5,7** (12.56)	**5** (0.31)
PMD10	**250** (3625)	**250** (3625)		**10** (0.61)
PMD17	**150** (2175)	**150** (2175)		**17** (1.04)

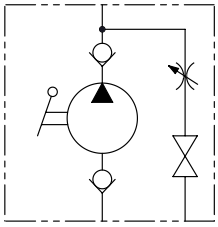
01

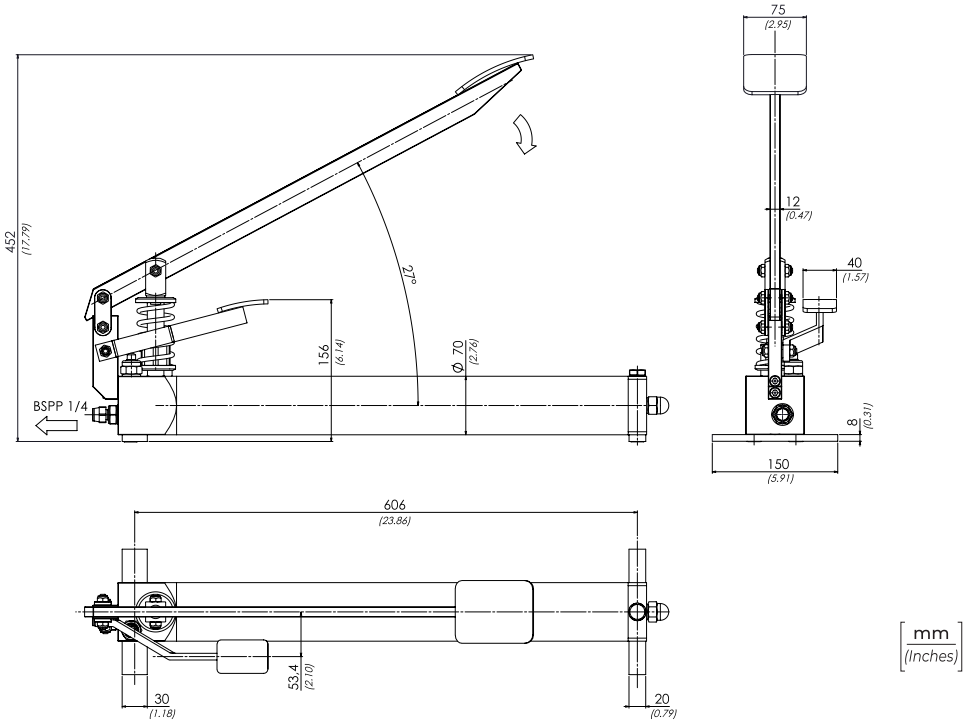
CODICE ORDINAZIONE
ORDERING CODE

PME3

01	POMPA A PEDALE (FOOT PUMP)	**PME3**
	Serbatoio **lt. 1,5** (Reservoir lt. 1.5)	

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT





DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
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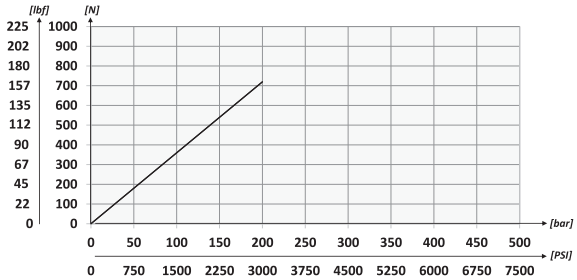
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

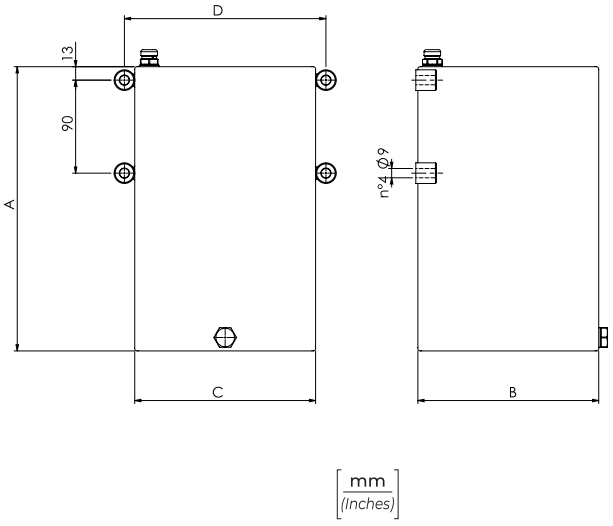
TIPO TYPE	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt	CILINDRATA (cm³) DISPLACEMENT (in³)
PME3	**220** (3190)	**10,40** (22.92)	**14** (0.85)

SFORZO ESERCITATO ALL'ESTREMITÀ DELLA LEVA
EFFORT OPERATING AT THE END OF THE LEVER



SERBATOIO IN ACCIAIO, VERNICIATURA RAL9005 ANTIOLIO-NERO, IL SERBATOIO È COMPRENSIVO DI TAPPO SFIATO, TAPPO SCARICO E TUBO PESCAGGIO

STEEL RESERVOIR, RAL9005 BLACK OIL PROOF PAINTING, THE RESERVOIR IS INCLUDING THE BREATHER PLUGS AND DRAFT TUBE



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
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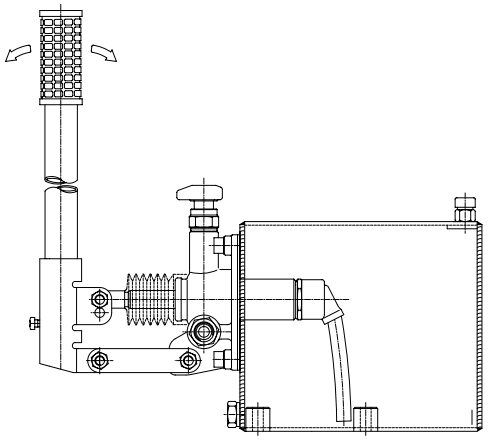
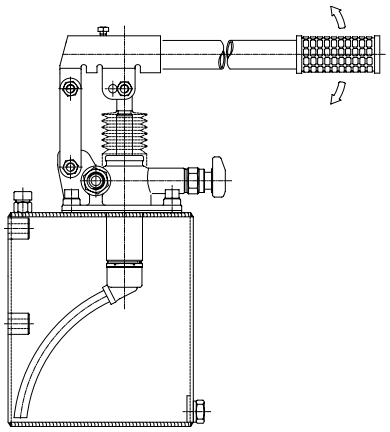
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

MONTAGGIO ORIZZONTALE / HORIZONTAL MOUNTING



MONTAGGIO VERTICALE / VERTICAL MOUNTING



01

CODICE ORDINAZIONE
ORDERING CODE

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

	TIPO TYPE	CAPACITÀ CAPACITY	A	B	C	D	PESO APPROX (kg) APPROX WEIGHT (lbt)
01	**17900001**	**1 Lt.** - 61 in.³	**120** (4.72)	**150** (5.91)	**100** (3.94)	**120** (4.72)	**2,2** (5)
	17900002	**2 Lt.** - 122 in.³	**185** (7.28)				**2,7** (6)
	17900003	**3 Lt.** - 183 in.³	**255** (10.04)				**3,5** (7,71)
	17900006	**5 Lt.** - 305 in.³	**200** (7.87)	**175** (6.89)		**195** (7.68)	**5** (10.9)
	17900004	**7 Lt.** - 427 in.³	**275** (10.83)				**5,5** (12.1)
	17900005	**10 Lt.** - 610 in.³	**380** (14.96)				**7,1** (15.39)
	17900014	**13 Lt.** - 793 in.³	**485** (19.09)				**10,75** (23.7)
	17900015	**15 Lt.** - 915 in.³	**600** (23.62)				**12,10** (26.67)
	17900016	**20 Lt.** - 1220 in.³	**780** (30.71)				**16** (35.26)

TNA 1

TNA 2 - TNA 3 - TNA 5

SERBATOIO IN ALLUMINIO, IL SERBATOIO È COMPRENSIVO DI TAPPO SFIATO, TAPPO SCARICO E TUBO PESCAGGIO

ALUMINIUM RESERVOIR, THE RESERVOIR INCLUDES THE AIR BLEEDING PLUGS AND SUCTION TUBE

CODICE ORDINAZIONE
ORDERING CODE

01	02
TNA	

01	SERBATOI IN ALLUMINIO (ALUMINIUM RESERVOIRS)		TNA
02	CAPACITÀ (CAPACITY)	**1 Lt. -** 61 in.³	1
		2 Lt. - 122 in.³	2
		3 Lt. - 183 in.³	3
		5 Lt. - 305 in.³	5

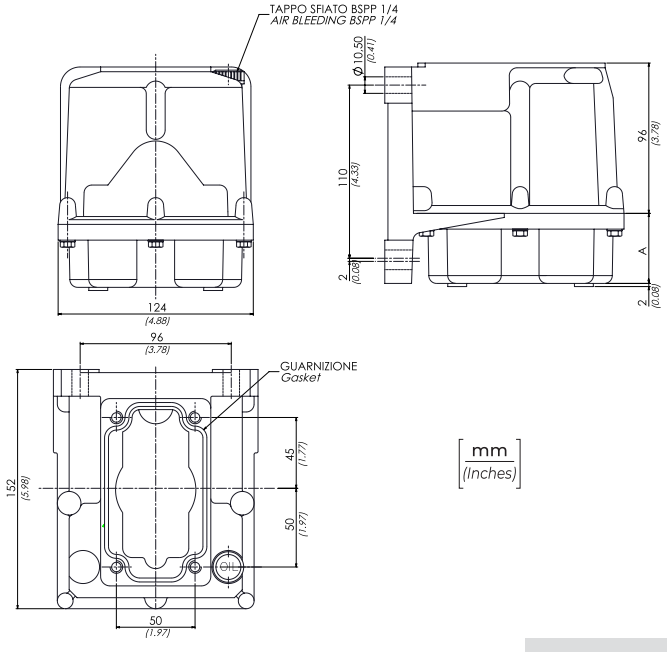
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

Tipo Type	Capacità Capacity Lt./in	A	H	Peso Approx (kg) Approx weight (lb)
TNA 1	**1 Lt. -** 61 in.³	**40** (1.57)	/	**1,1** (2.4)
TNA 2	**2 Lt. -** 122 in.³	/	**25** (0.98)	**1,5** (3.3)
TNA 3	**3 Lt. -** 183 in.³	/	**70** (2.76)	**1,6** (3.5)
TNA 5	**5 Lt. -** 305 in.³	/	**180** (7.09)	**1,8** (4)

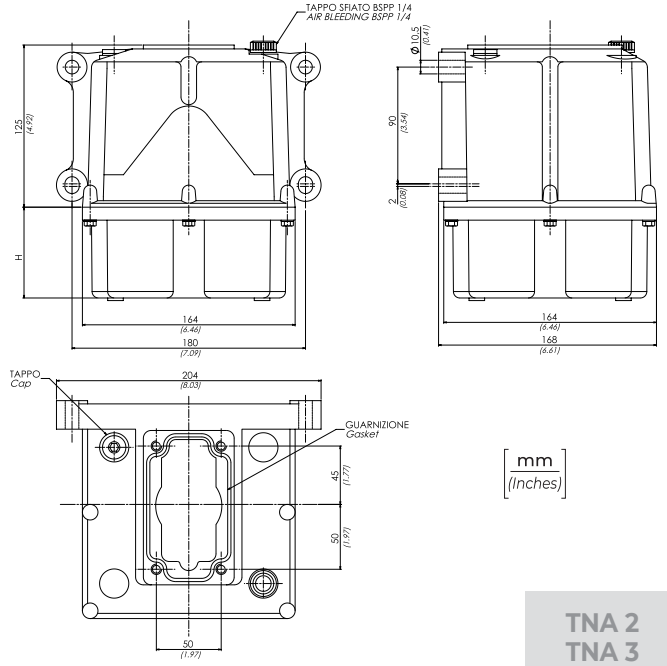
DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - Environment temperature	**-20°C +50°C**	-4°F + 122°F

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



TNA1



TNA 2
TNA 3
TNA 5

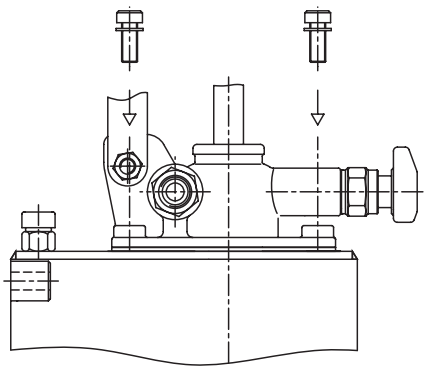
MONTAGGIO POMPA NEL SERBATOIO

1

Montaggio del tubo aspirazione

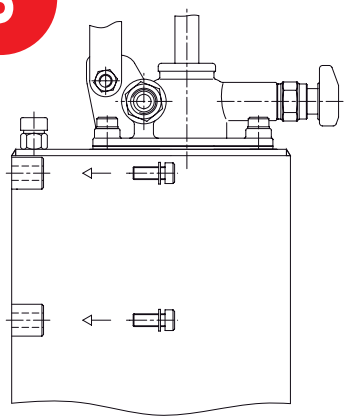
Introdurre il tubo di aspirazione nell'apposito raccordo.

2



Appoggiare la guarnizione in gomma sul serbatoio, posizionare la pompa, assemblare la pompa sul serbatoio mediante kit viti di fissaggio.

3

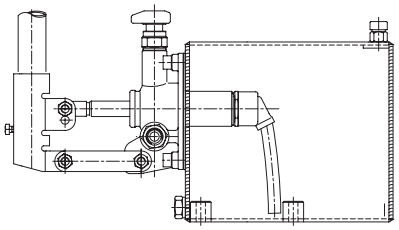


Collocare pompa e serbatoio nella posizione desiderata fissando con 4 viti.

Avvitate per minimo 20 mm.

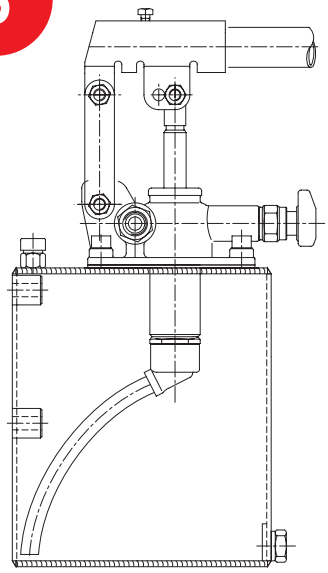
Collegare la mandata della pompa al circuito a semplice o doppio effetto.

4



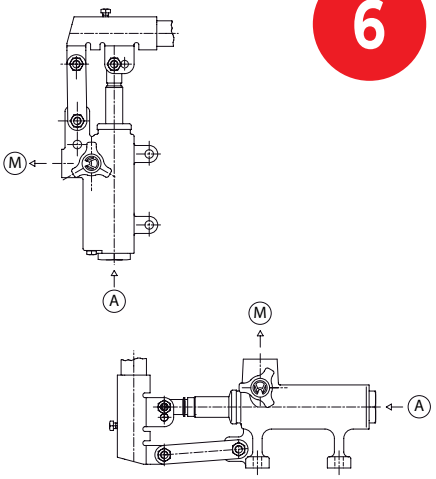
Montaggio orizzontale.

5



Montaggio verticale.

6



Posizionare la pompa in orizzontale o verticale fissandola con apposite viti. Collegare aspirazione (**A**) e mandata (**M**) della pompa al circuito.

USO

Per un corretto funzionamento, dopo aver montato la pompa nel o sul serbatoio in modo appropriato, utilizzare esclusivamente olio idraulico a base minerale ISO6743/4 (DIN 51524), viscosità secondo i parametri ISO 3448 (DIN51519).

Viscosità consigliata: 46 mm²/s (cSt)

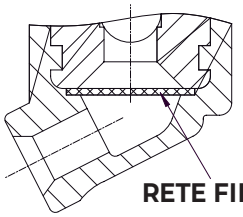
Filtrazione consigliata: 15 µm

Classe di contaminazione: 18/14 ISO4406 (9 NAS 1638)

MANUTENZIONE

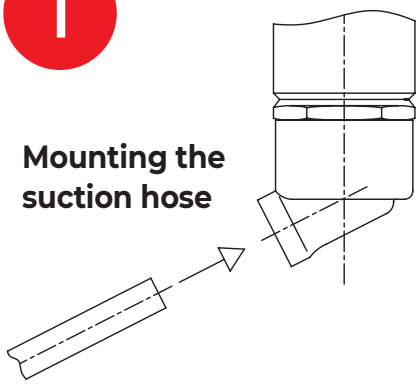
Per un corretto funzionamento, si consiglia di seguire le seguenti procedure periodiche:

- **PULIZIA DELLA RETE FILTRO**
- **SOSTITUZIONE OLIO**



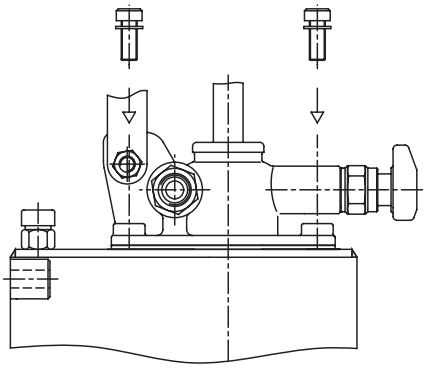
MOUNTING OF PUMP INSIDE THE TANK

1



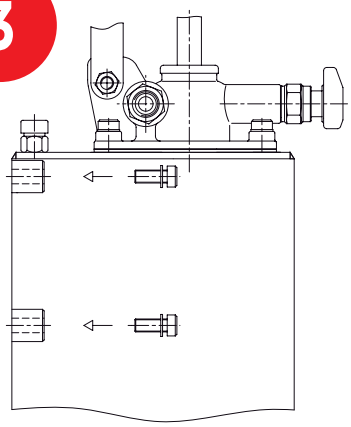
Insert the suction hose in the proper fitting.

2



Put the rubber seal on the tank, position the pump, assemble the pump to the tank by means of the fixing screws kit.

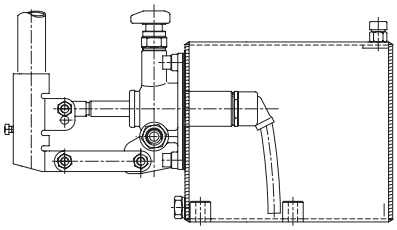
3



Place pump and tank in the position you need and fix them with nr.4 screws. You have to screw for at least 0.79 inch.

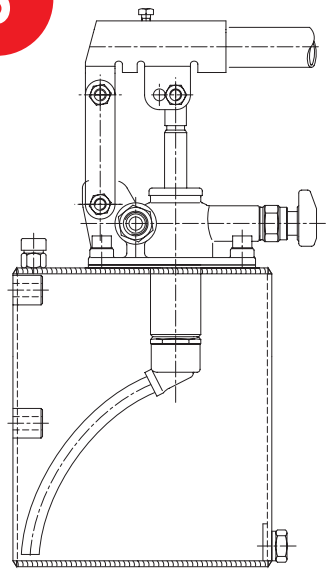
Connect pump delivery to the single or double acting circuit.

4



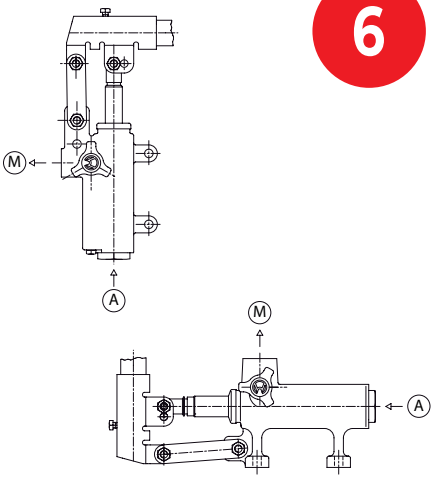
Horizontal mounting.

5



Vertical mounting.

6



Place pump horizontally or vertically and fix with proper screws.

Connect pump suction (**A**) and delivery (**M**) to the circuit.

USE

For a good service of the pump, after having assembled the pump inside or on the tank in the proper way, please use only ISO6743/4 (DIN 51524), hydraulic mineral oil, viscosity according to ISO 3448 (DIN51519) standards.

Advised viscosity: 46 mm²/s (cSt)

Advised filtration: 15 µm

Contamination class: 18/14 ISO4406
(9 NAS 1638)

MAINTENANCE

For a good service, we advise following periodical operations:

- **FILTER NET CLEANING**
- **OIL REPLACEMENT**