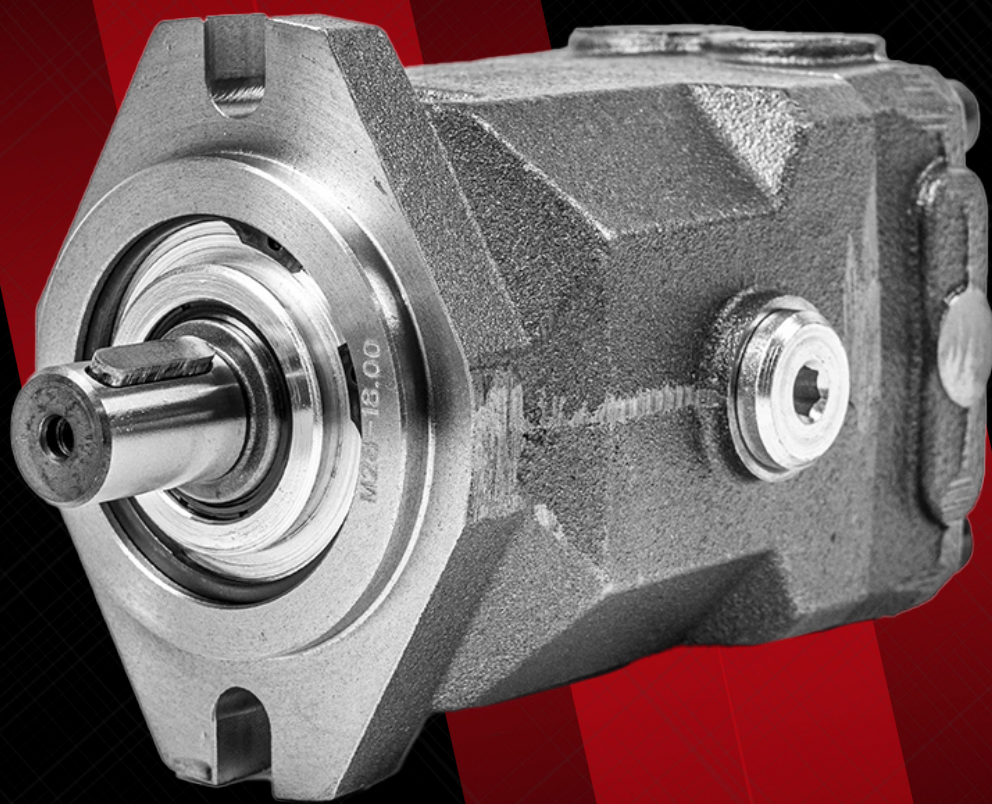




PISTON MOTORS

MF

21-28-35

a cilindrata fissa

CARATTERISTICHE TECNICHE - COMANDI

TECHNICAL FEATURES - CONTROLS

I motori a pistoni assiali a cilindrata fissa sono a piatto inclinato e possono operare sia in circuito aperto che in circuito chiuso. L'accurata scelta dei materiali, l'impiego del blocco cilindri in acciaio con boccole riportate, consentono ai motori PWG S.r.l. di raggiungere elevate prestazioni in termini di regimi e pressioni di lavoro massimo.

Le loro principali caratteristiche sono:

- Elevato rapporto potenza/peso
- Ottimi rendimenti volumetrici e meccanici
- Lunga durata
- Ingombri limitati
- La valvola di scambio viene montata a richiesta

The fixed-displacement axial piston motors feature a swashplate system and may operate in either closed or open circuit. Proper selection of materials and the use of steel cylinder blocks with inserted bushings guarantee the high performance of the PWG S.r.l. motors, in terms of max. speed and working pressure.

The main feature of PWG S.r.l. motors include:

- Exceptionally high power/weight ratio
- Excellent volumetric and mechanical efficiency
- Long life
- Compact design
- Exchange valve filed as optional.

SERIE		MF 21-28-35
Cilindrata Displacement	cc/giro cc/rev	21-28-35
Regime di rotazione max continuo Max rotation speed continuous	min ⁻¹	3600
Regime di rotazione max intermittente Max rotation speed intermittent	min ⁻¹	4000
Pressione nominale Rated pressure	bar (psi)	250 (3625)
Pressione di punta Peak pressure	bar (psi)	350 (5075)
Pressione massima in carcassa Max case pressure	bar (psi)	1,5 (21.75)
Massima temperatura continua olio Max oil continuous temperature	°C	80
Classe di filtrazione ISO ISO filtration class		ISO 18/16/13, NAS 8
Viscosità olio ottimale Optimized oil viscosity	mm ² /s	15 - 35
Massa Weight	Kg	8,5
Momento polare di inerzia Inertial mass	N · m · s ²	15 x 10 - 19 x 10

CODICE DI ORDINAZIONE

ORDERING CODE

MF 21 - 21	1	B	5	T		
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Serie cilindrata / Series displacement	
MF 21	46 CC / GIRO - 46 CC / REV
MF 28	64 CC / GIRO - 64 CC / REV
MF 35	64 CC / GIRO - 64 CC / REV
NOTA : Per limitazioni di cilindrata diverse, contattare PWG Srl. NOTE: For different displacement limitations, contact PWG Srl.	

Conessioni / Ports / Anschlusse	
1	Utilizzi A - B posteriori Users A - B rear
2	Utilizzi laterali accoppiati Users A - B coupled sideways
3	Utilizzi A - B laterali - contrapposti Users A - B opposite sideways

Senso di rotazione / Direction of rotation	
B	Bidirezionale (Std) - Bidirectional (Std)

Tipo di abbero / Shaft end	
1	Cilindrico Ø22.22 Round shaft Ø22.22
2	Cilindrico Ø25.40 Round shaft Ø25.40
5	Scanalato MZ13 -16/32-DP Splined shaft Z13-16/32-DP
3	Scanalato MZ15 -16/32-DP Splined shaft Z15-16/32-DP

Esecuzioni speciali
Special versions

Opzioni / Option	
P	Drenaggio posteriore Rear drainage
V	Valvola di scambio Exchange Valve
M	Valvola di massima Maximum valve
Q	Valvola di massima+Valvola di scambio Maximum valve+Exchange valve
R	Valvola di massima+Drenaggio Posteriore Maximum valve+Rear drainage
N	Valvola di massima+Valvola di scambio+D.Post. Maximum valve+Exchange Valve+Rear drainage

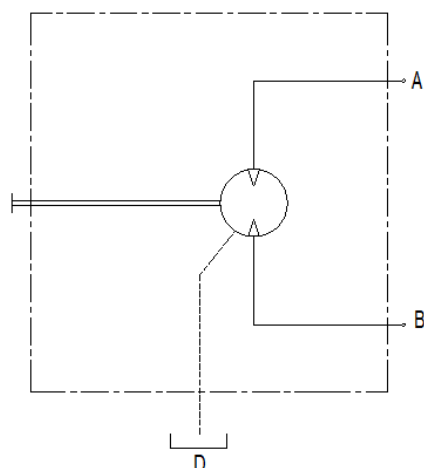
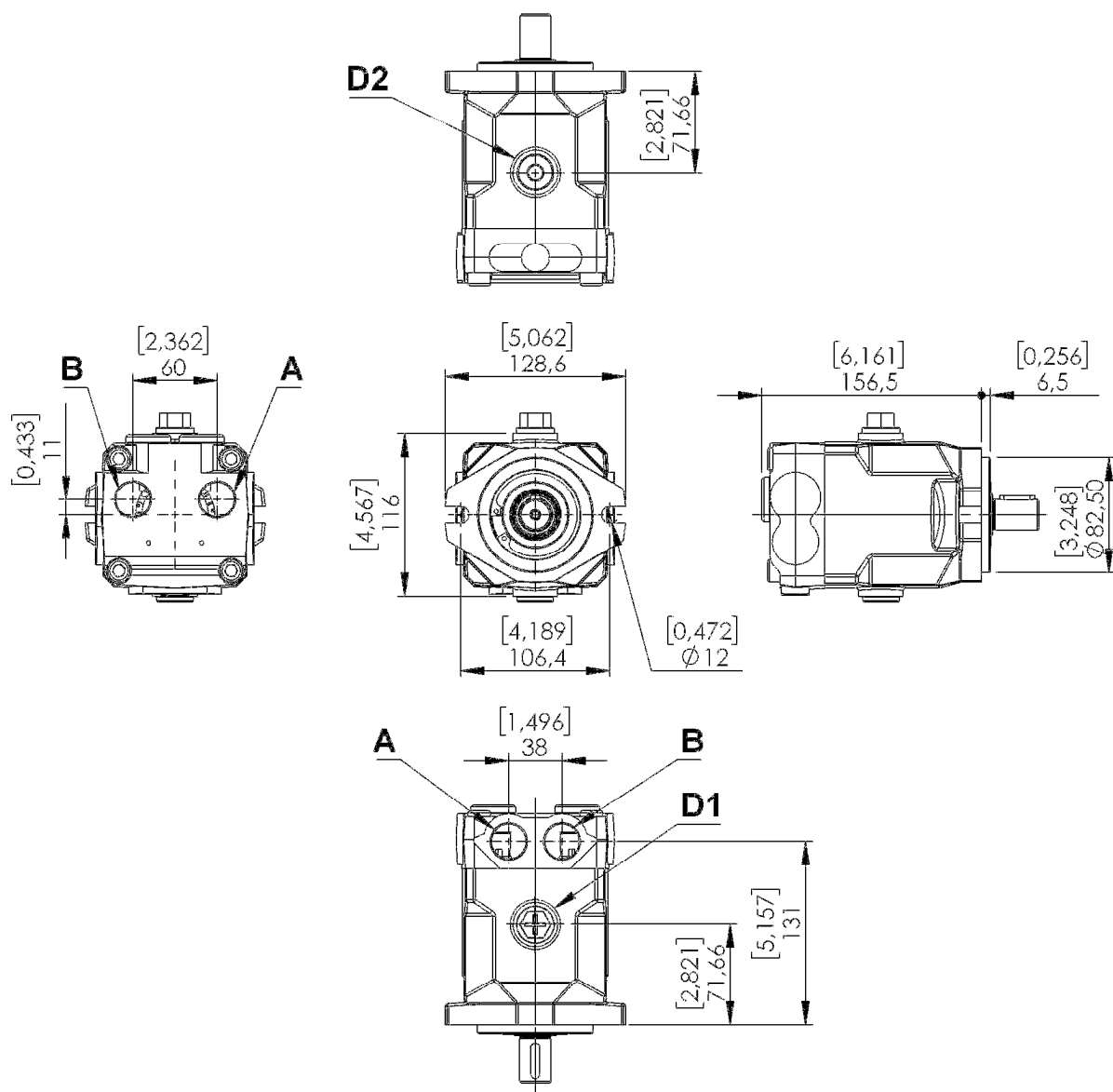
Versione attacchi / Ports	
U	SAE (Filetti UNF) SAE (UNF Threads)
T	Porte A-B filelate 3/4" GAS Ports A-B thread 3/4" GAS

DIMENSIONI MOTORE

MOTOR DIMENSIONS

Utilizzi A - B posteriori + A - B laterali accoppiati (VERSIONE IBRIDA)

Users A - B rear + A - B coupled sideways (HYBRID VERSION)



VERSIONE METRICA - METRIC VERSION

A - B: Linee di pressione - Pressure ports - 3/4 G

D1 - D2: Drenaggi - Drain ports - 1/2 G

VERSIONE SAE-A - SAE-A VERSION

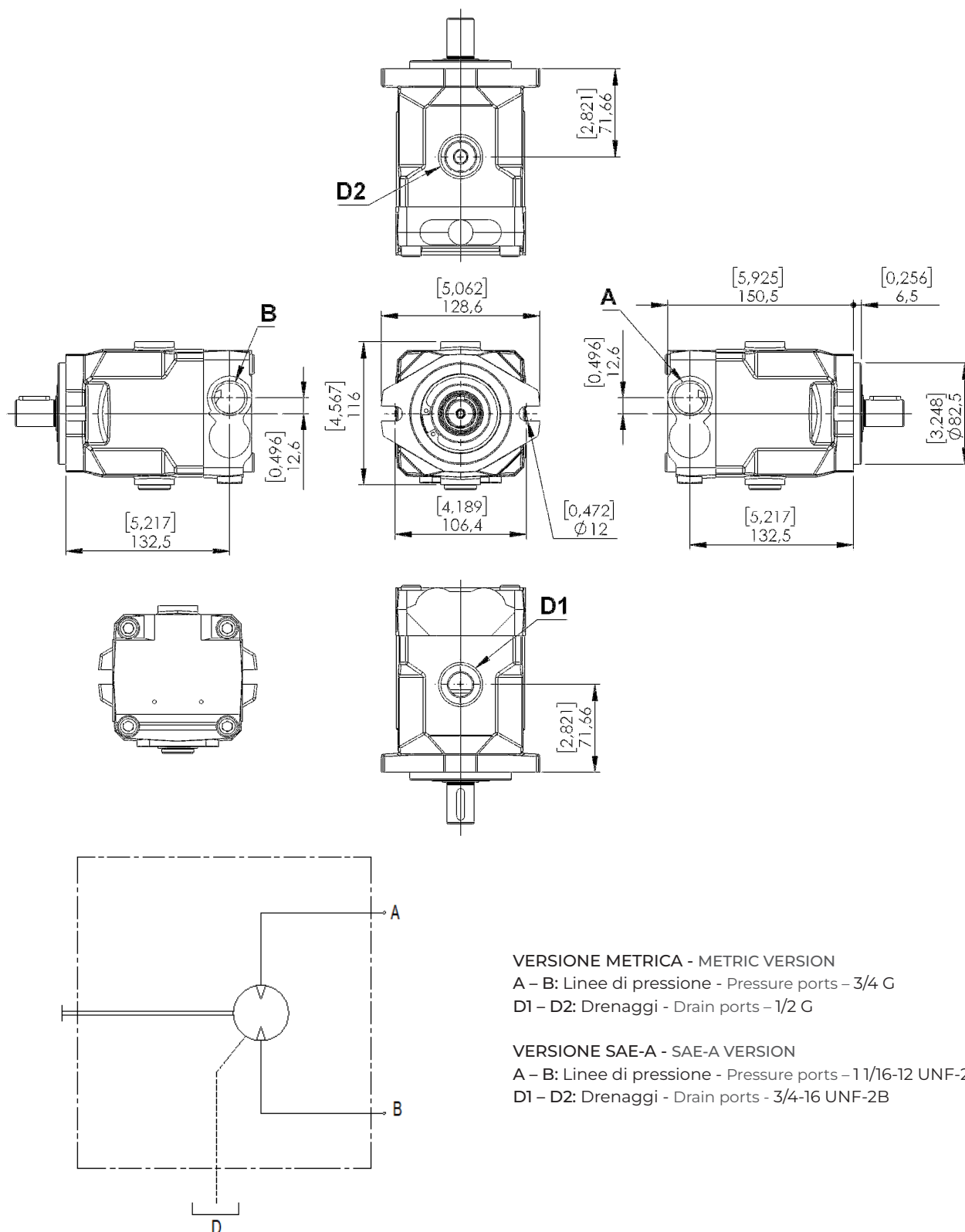
A - B: Linee di pressione - Pressure ports - 11/16-12 UNF-2B

D1 - D2: Drenaggi - Drain ports - 3/4-16 UNF-2B

DIMENSIONI MOTORE

MOTOR DIMENSIONS

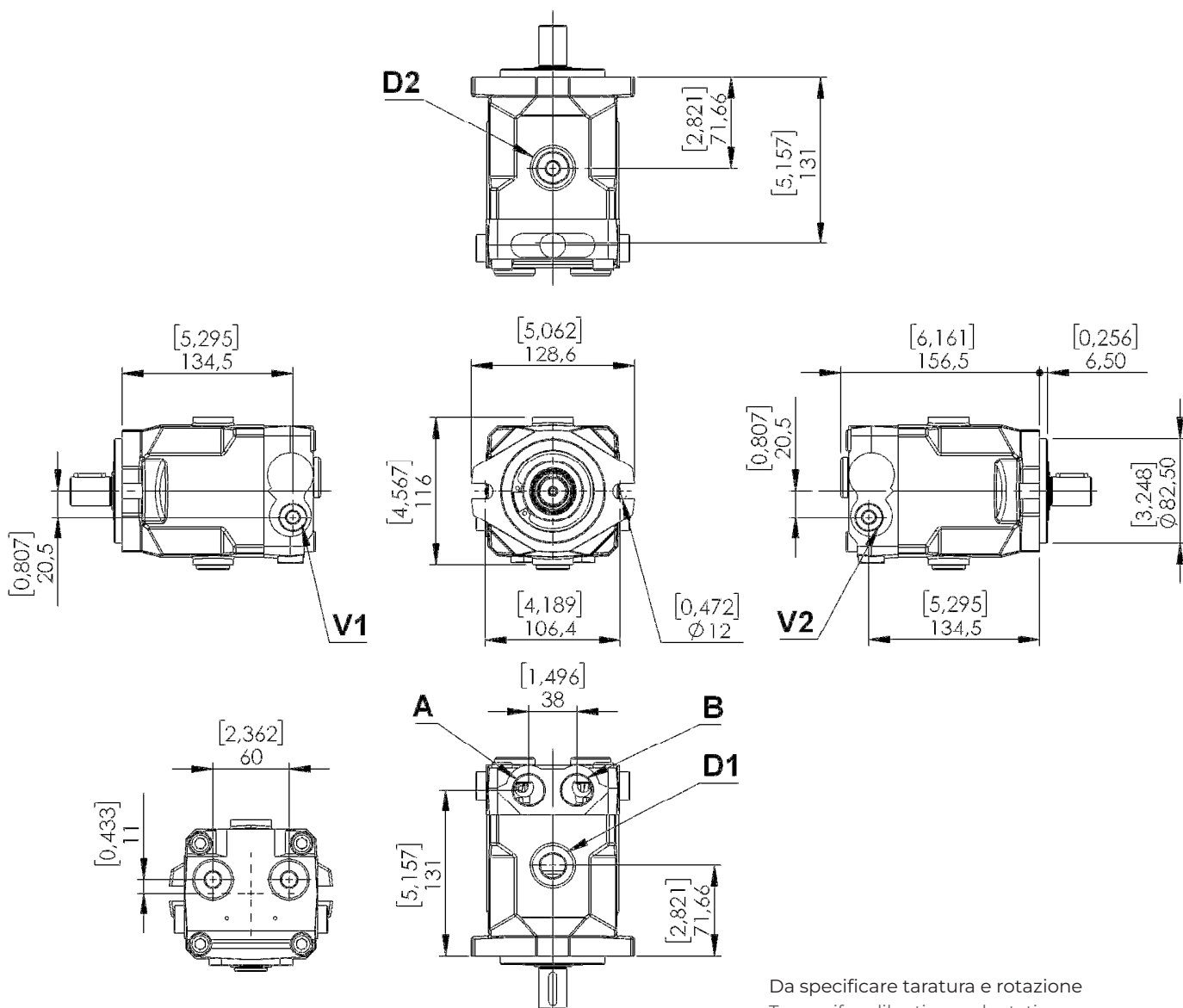
Utilizzi A - B Laterali Contrapposti
Users A - B Opposite Sideways



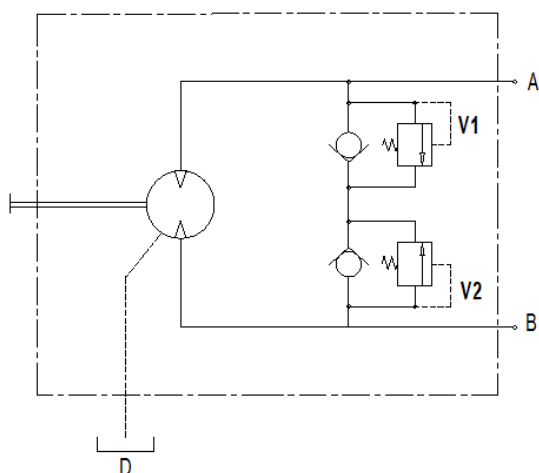
ACCESSORI E DIMENSIONI PRESE DI MOTO

ACCESSORIES AND THROUGH DRIVES DIMENSIONS

Valvola di massima pressione
Pressure relief valve



Da specificare taratura e rotazione
To specify calibration and rotation



VERSIONE METRICA - METRIC VERSION

A - B: Linee di pressione - Pressure ports - 3/4 G

D1 - D2: Drenaggi - Drain ports - 1/2 G

V1 - V2: Valvole di massima pressione / Pressure relief valves

VERSIONE SAE-A - SAE-A VERSION

A - B: Linee di pressione - Pressure ports - 1 1/16-12 UNF-2B

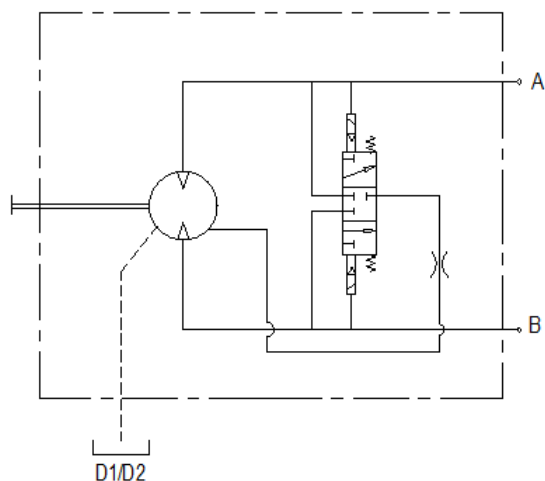
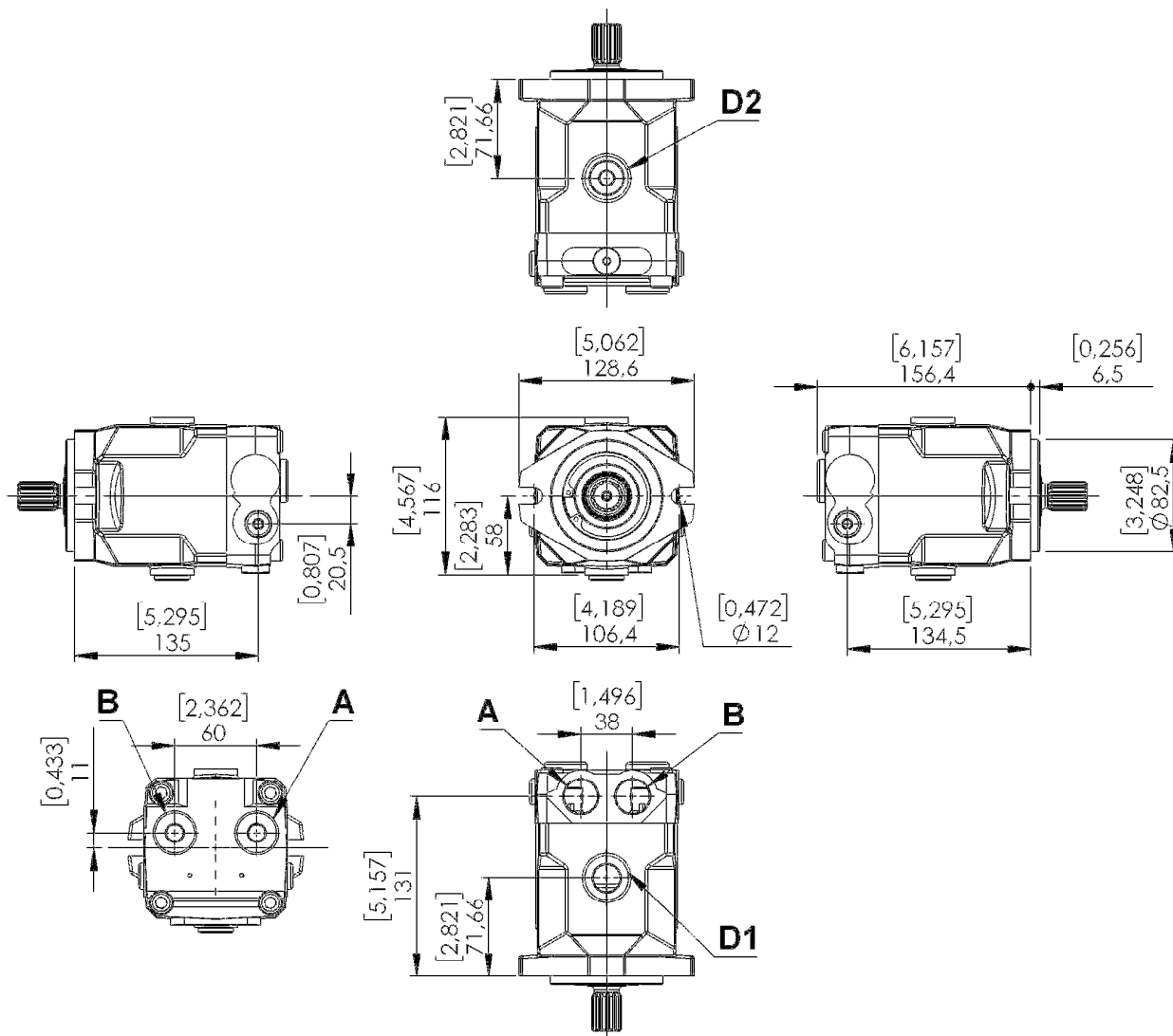
D1 - D2: Drenaggi - Drain ports - 3/4-16 UNF-2B

V1 - V2: Valvole di massima pressione / Pressure relief valves

ACCESSORI E DIMENSIONI PRESE DI MOTO

ACCESSORIES AND THROUGH DRIVES DIMENSIONS

Valvola di scambio (5-7 l/min)
Exchange valve (5-7 l/min)



VERSIONE METRICA - METRIC VERSION

A - B: Linee di pressione - Pressure ports - 3/4 G

D1 - D2: Drenaggi - Drain ports - 1/2 G

VERSIONE SAE-A - SAE-A VERSION

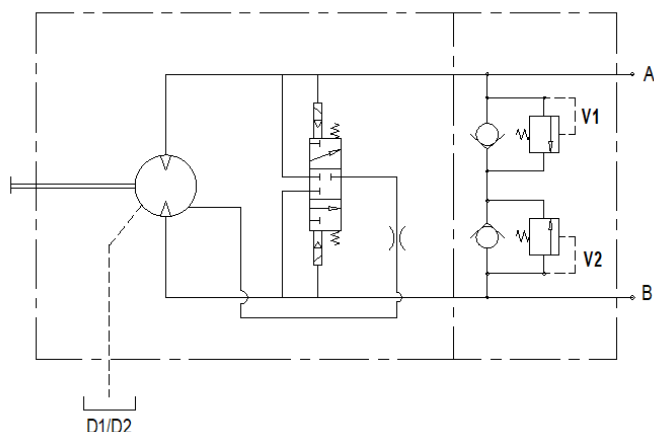
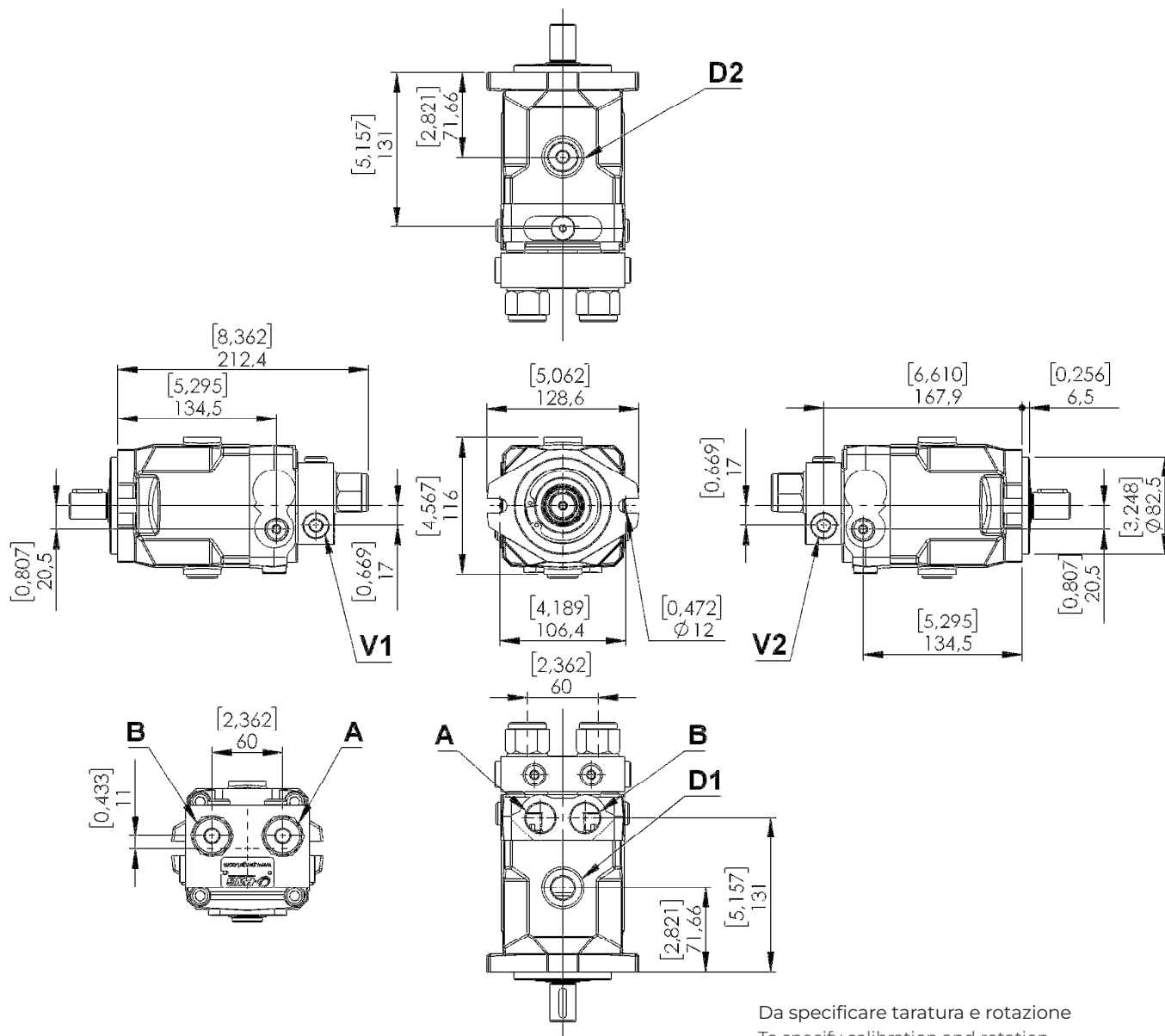
A - B: Linee di pressione - Pressure ports - 1 1/16-12 UNF-2B

D1 - D2: Drenaggi - Drain ports - 3/4-16 UNF-2B

ACCESSORI E DIMENSIONI PRESE DI MOTO

ACCESSORIES AND THROUGH DRIVES DIMENSIONS

Valvola di massima pressione / Pressure relief valve
Valvola di scambio / Exchange valve (5-7 l/min)



VERSIONE METRICA - METRIC VERSION

A - B: Linee di pressione - Pressure ports - 3/4 G

D1 - D2: Drenaggi - Drain ports - 1/2 G

V1 - V2: Valvole di massima pressione / Pressure relief valves

VERSIONE SAE-A - SAE-A VERSION

A - B: Linee di pressione - Pressure ports - 1 1/16-12 UNF-2B

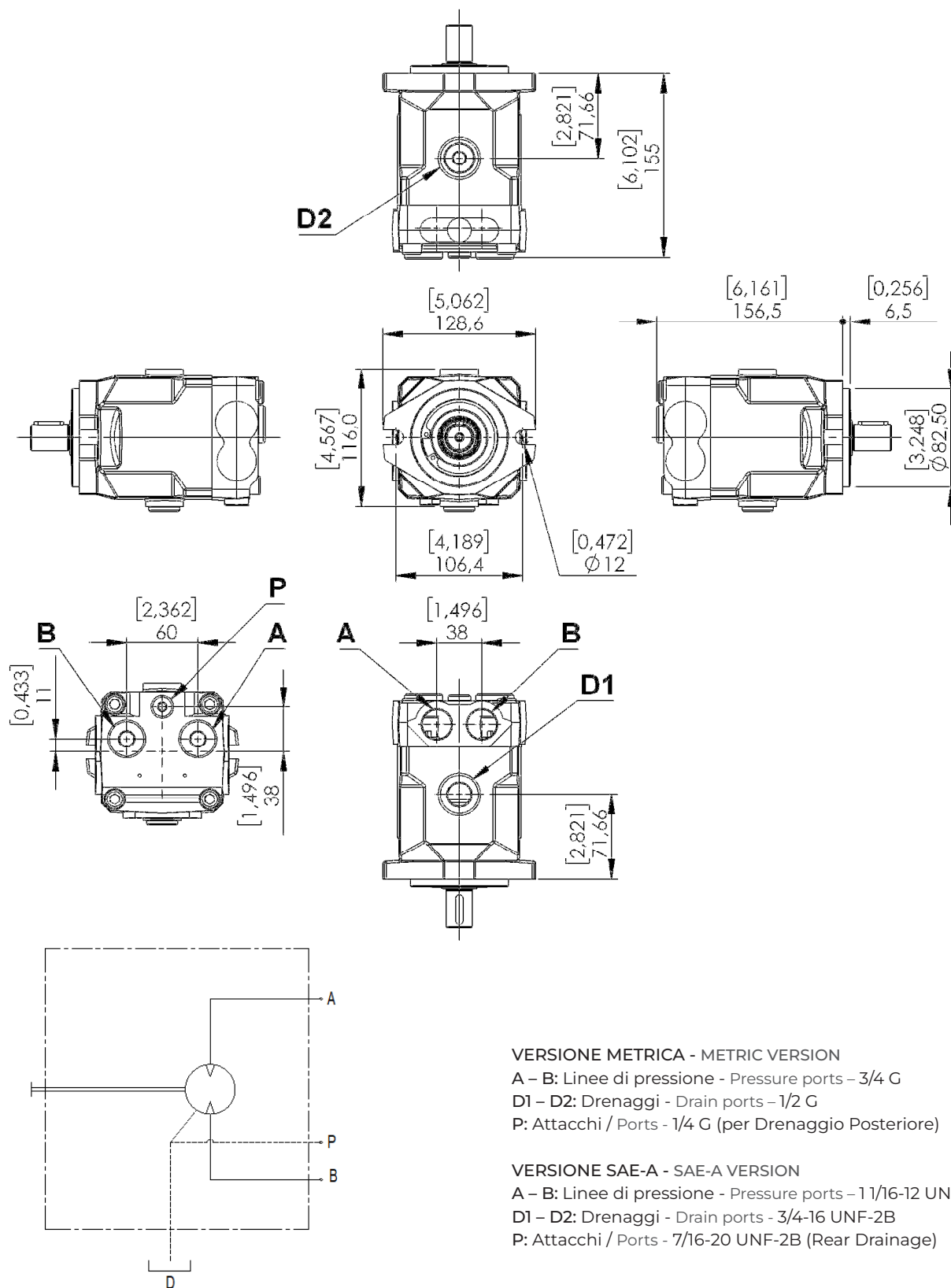
D1 - D2: Drenaggi - Drain ports - 3/4-16 UNF-2B

V1 - V2: Valvole di massima pressione / Pressure relief valves

ACCESSORI E DIMENSIONI PRESE DI MOTO

ACCESSORIES AND THROUGH DRIVES DIMENSIONS

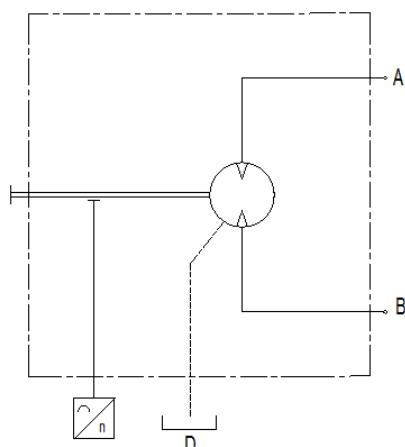
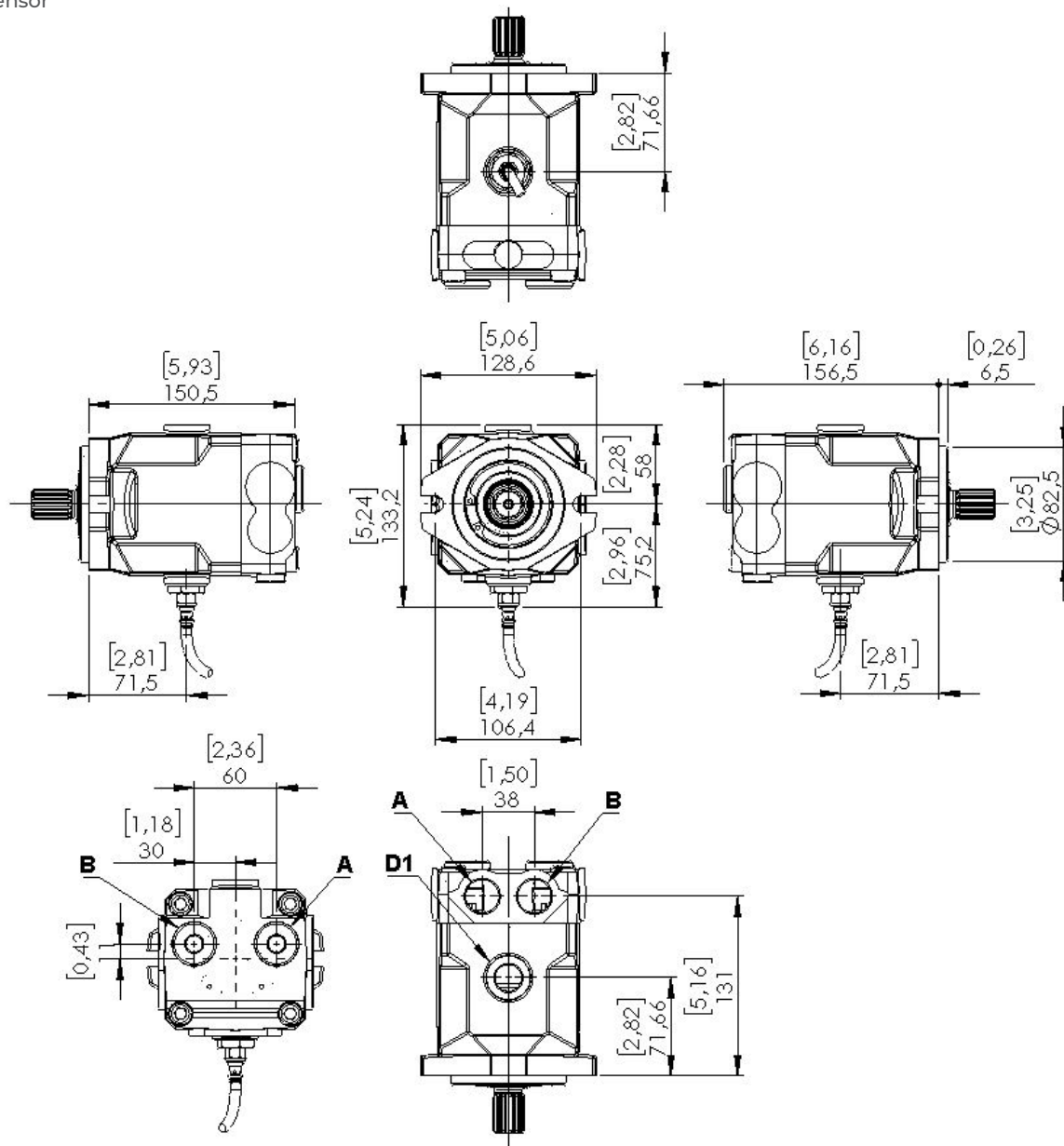
Drenaggio Posteriore
Rear Drainage



ACCESSORI E DIMENSIONI PRESE DI MOTO

ACCESSORIES AND THROUGH DRIVES DIMENSIONS

Sensore di giri
RPM sensor



VERSIONE METRICA - METRIC VERSION

A - B: Linee di pressione - Pressure ports - 3/4 G

D1 - D2: Drenaggi - Drain ports - 1/2 G

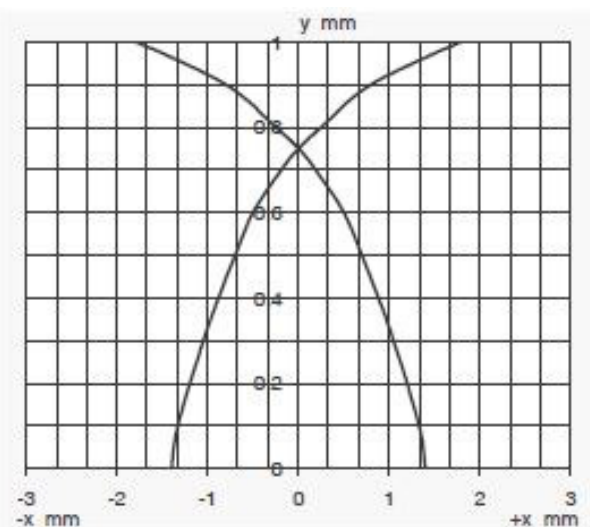
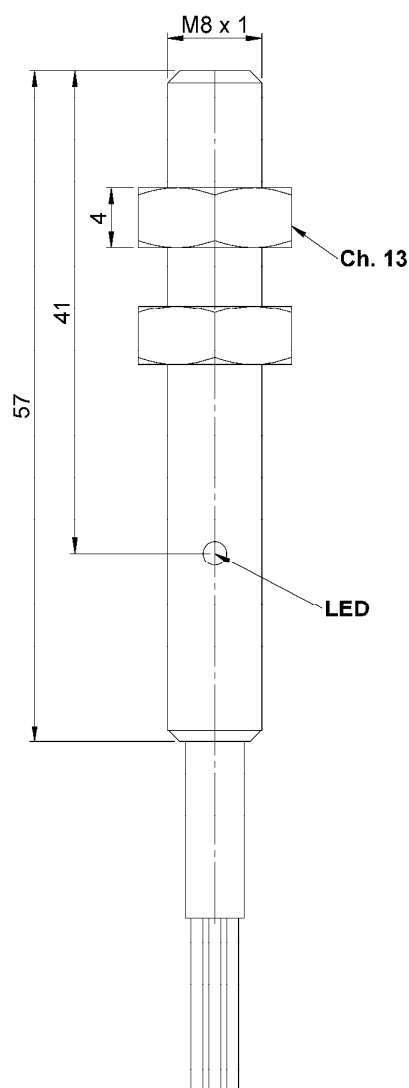
VERSIONE SAE-A - SAE-A VERSION

A - B: Linee di pressione - Pressure ports - 11/16-12 UNF-2B

D1 - D2: Drenaggi - Drain ports - 3/4-16 UNF-2B

SENSORE DI PROSSIMITÀ INDUTTIVO

INDUCTIVE PROXIMITY SENSOR



Voltaggio potenza fornita / Power supply voltage

Drenaggio posteriore Rear drainage	Ue	24 V DC
Valvola di scambio Exchange Valve	Ub	10 ... 60 V DC
Valvola di massima Maximum valve	Io	10 mA

Uscite / Output

Uscita Output		3 wire pnp 3 Leiter DC pnp
Corrente massima operativa Rated operational current	Ie	200 mA
Caduta di tensione Output voltage drop	Ud	2,5 V
Caduta di tensione Output voltage drop		0,01 mA

Tempo / Times

Frequenza dei cicli operativi Frequency of operating cycles	f	5000 Hz
Tempo di ritardo Time delay before availability	tv	40 ms

Temperatura / Temperature

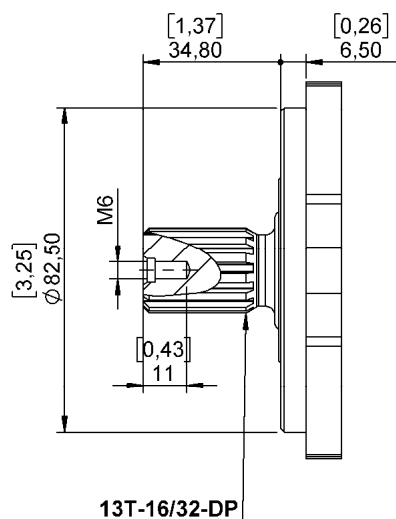
Temperatura nominale Rated temperature	Tu	25 °C
Temperatura ambiente Ambient temperature range range	Ta	-25...+85 °C

DIMENSIONI ALBERI

SHAFTS DIMENSIONS

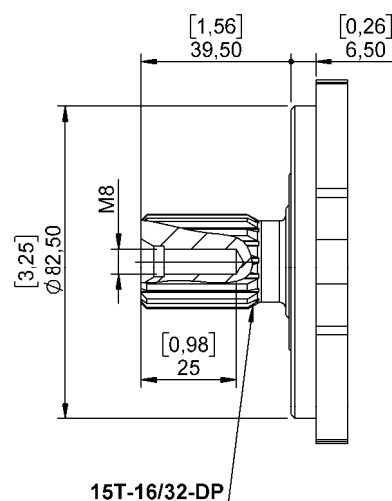
Estremità alberi
Spline shaft + Round shaft

MZ13 / M13T



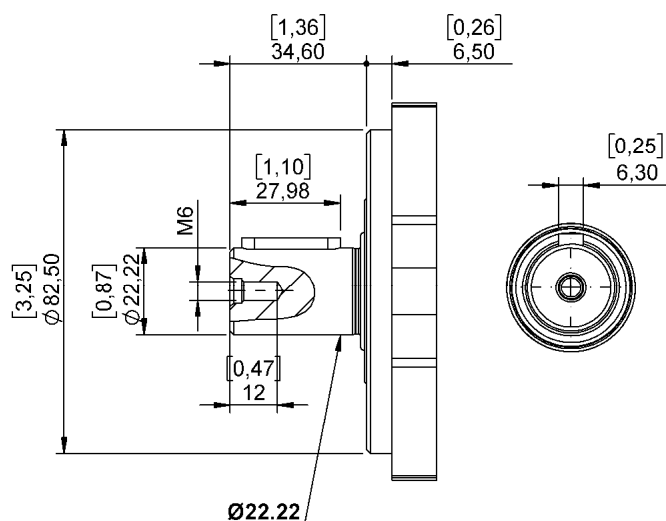
Coppia massima: 289 N m
Maximum torque: 289 N m

MZ15 / M15T



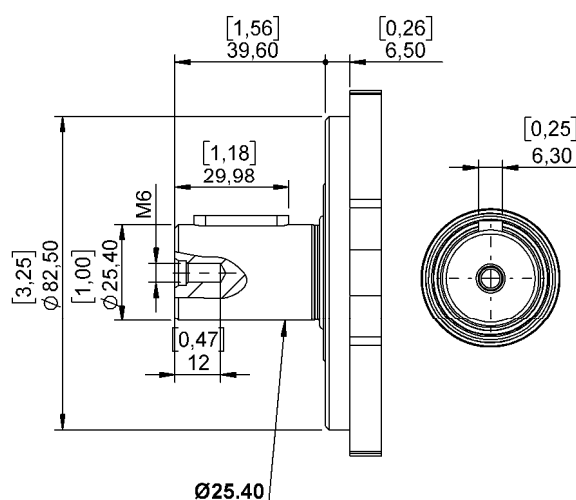
Coppia massima: 468 N m
Maximum torque: 468 N m

Ø22.22



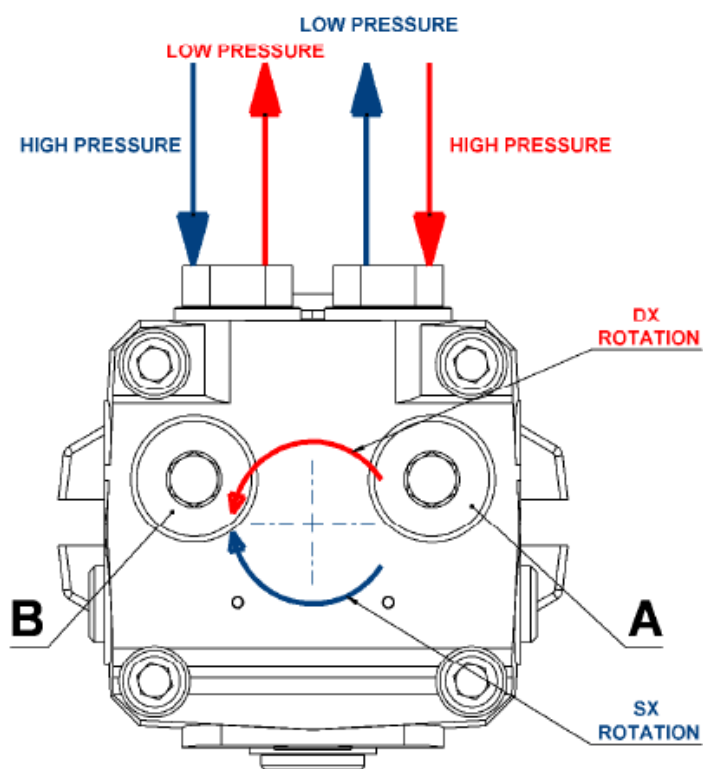
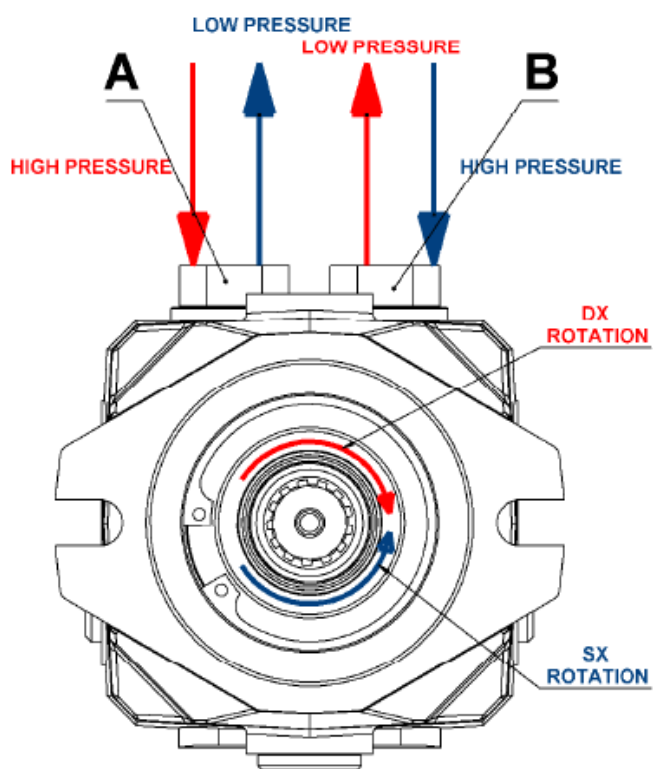
Coppia massima: 204 N m
Maximum torque: 204 N m

Ø25.40



Coppia massima: 233 N m
Maximum torque: 233 N m

SENSO DI ROTAZIONE DEL MOTORE **DIRECTION OF ROTATION**



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