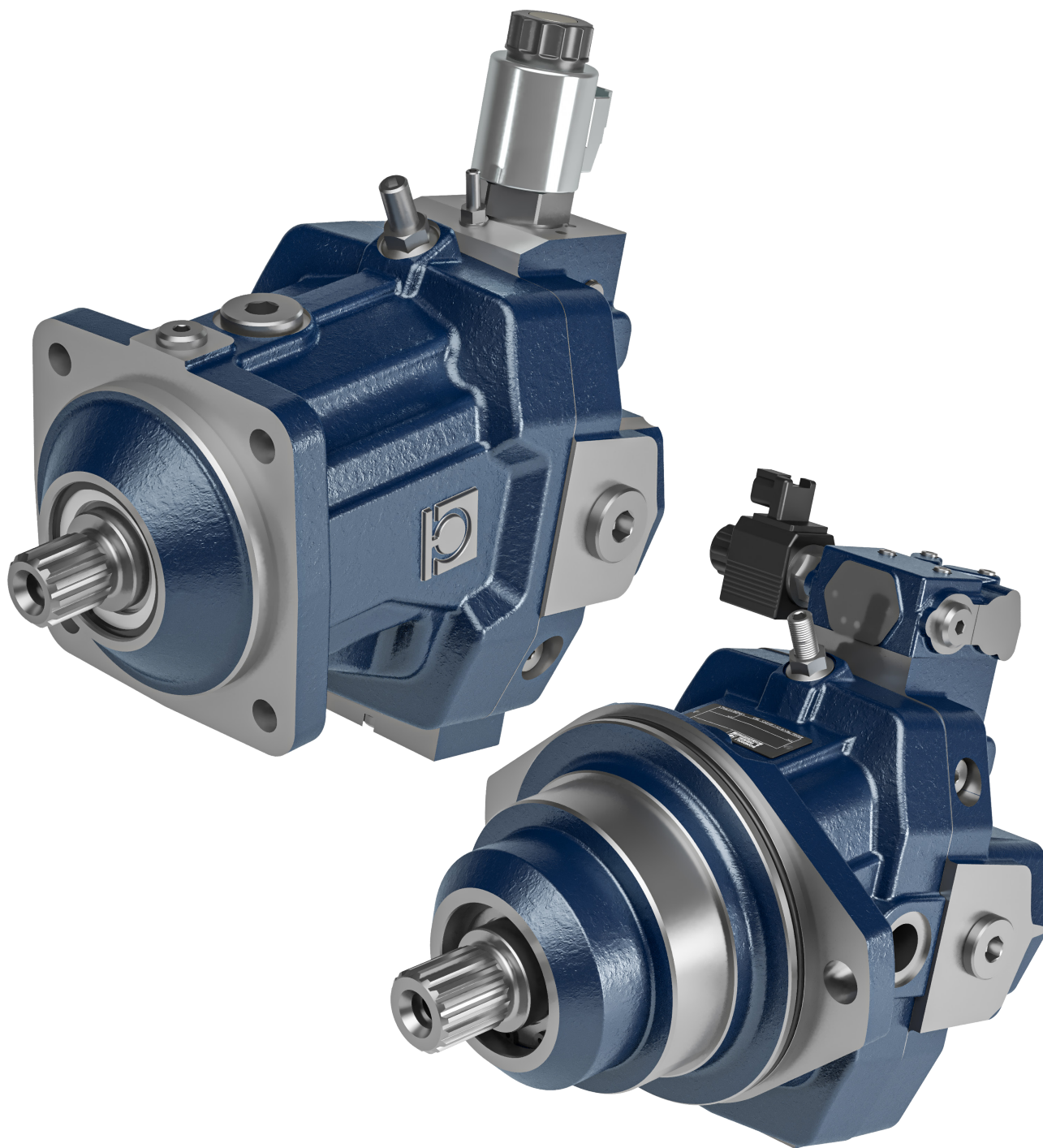


Motori a pistoncini assiali ad asse inclinato



Introduzione	4
Ottimizzazione della durata dei cuscinetti nelle applicazioni con forze radiali	5
Applicazioni di forze assiali all'albero	7
HPBA 060-078	9
HPBA 080-108	31
HPBA 110-130	53
HPBA 160-200	75

Introduzione

I motori variabili ad asse inclinato sono stati progettati in modo da ottenere un elevato angolo di inclinazione dei pompanti rispetto all'asse dell'albero uscente. Rispetto ai motori a piatto inclinato, che raggiungono i 18° di angolo di inclinazione, nelle versioni Bent Axis si riescono a raggiungere i 25°. Tale geometria offre vari vantaggi:

- elevata coppia di spunto;
- elevato range di variazione della cilindrata;
- elevata efficienza volumetrica e meccanica;
- elevata velocità massima;
- elevate pressioni massime.

I motori Bent Axis Bondioli e Pavesi possono essere impiegati con altri prodotti in sistemi a circuito chiuso e aperto per il trasferimento ed il controllo della potenza idraulica. Possono essere provvisti di valvola di flussaggio (di serie la valvola monta uno strozzatore di Ø1,7). La variazione della cilindrata da massima a minima avviene tramite pilotaggio idraulico ad alta o a bassa pressione, oppure tramite comando elettrico, in funzione delle richieste del cliente.

La versione a comando elettrico ON-OFF, permette una regolazione della cilindrata minima pari al 30% della cilindrata massima.

La versione a comando proporzionale invece, grazie alla geometria utilizzata per la sua progettazione, permette un ampio range di variazione della cilindrata, fino al raggiungimento dei 0° di inclinazione dei pompanti (cilindrata minima nulla).

La funzione estesa della capacità di zero gradi crea opportunità per migliorare facilmente le prestazioni della macchina per:

- assist drive sull'asse sterzante di macchine ad alta inerzia (ad esempio mietitrebbie) e potrebbe includere Anti Slip controllo;
- macchine fuoristrada che richiedono Anti Slip Control (irroratrice semovente);
- applicazioni multimotore che richiedono modalità di lavoro e di trasporto ottimizzate che utilizzano la posizione zero gradi per la massima velocità di trasporto;
- miglioramento della pendenza della macchina.

Ottimizzazione della durata dei cuscinetti nelle applicazioni con forze radiali

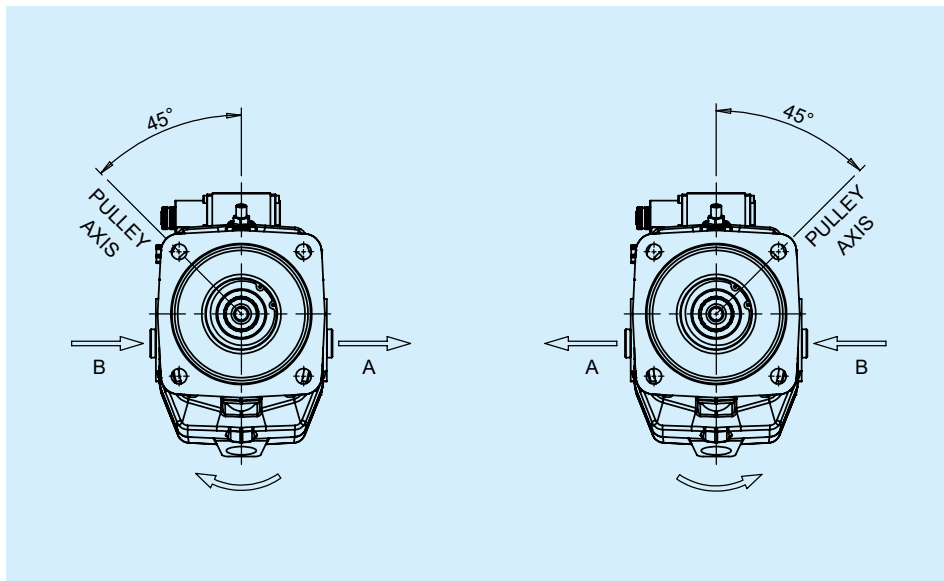
La direzione di applicazione del carico radiale influenza la durata dei cuscinetti del motore.

Una direzione ottimale della forza consente quindi di ridurre la sollecitazione sui cuscinetti e di ottenere una durata di vita maggiore degli stessi.

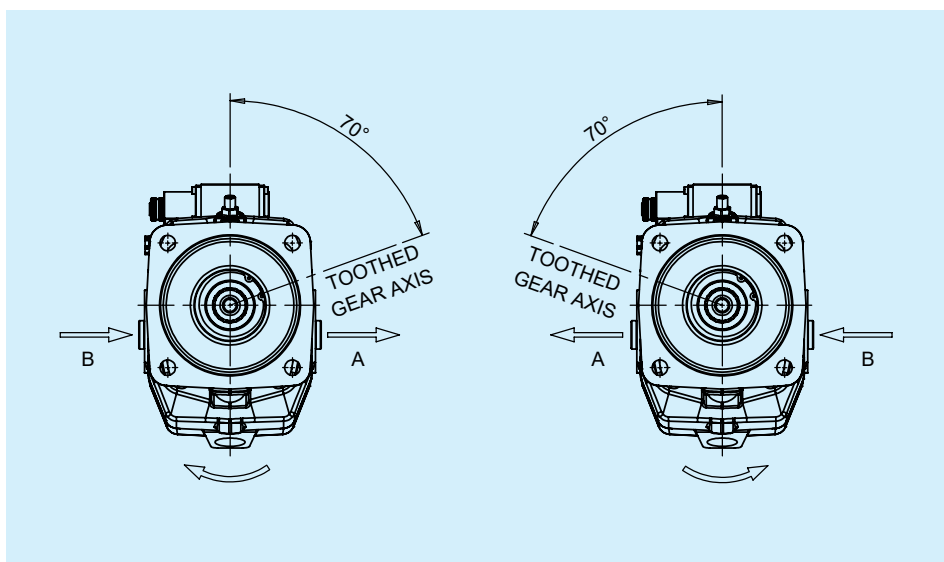
L'angolo di applicazione del carico è consigliato in funzione del senso di rotazione e del tipo di applicazione.

Per il calcolo della durata dei cuscinetti in base all'applicazione, si prega di contattare i nostri uffici tecnici.

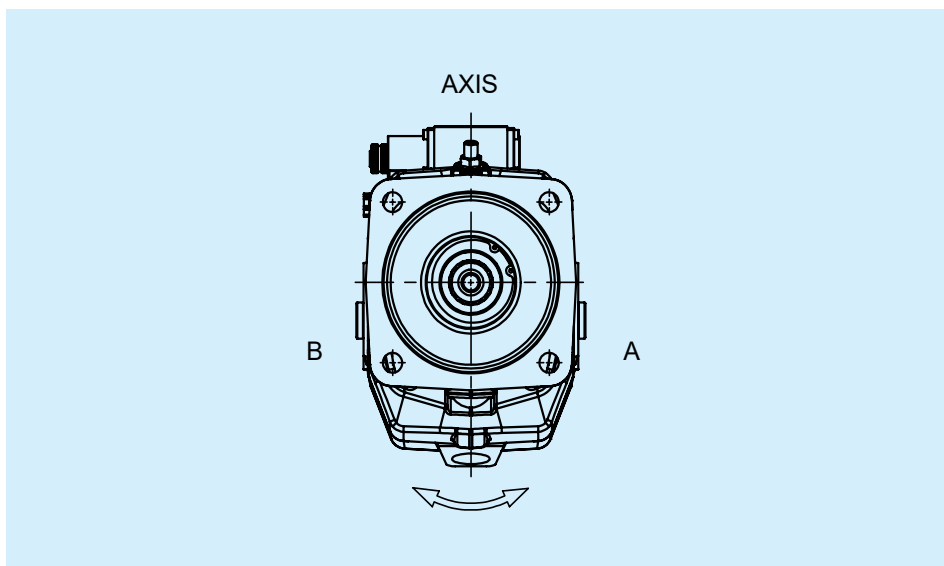
Asse puleggia



Asse ruota dentata



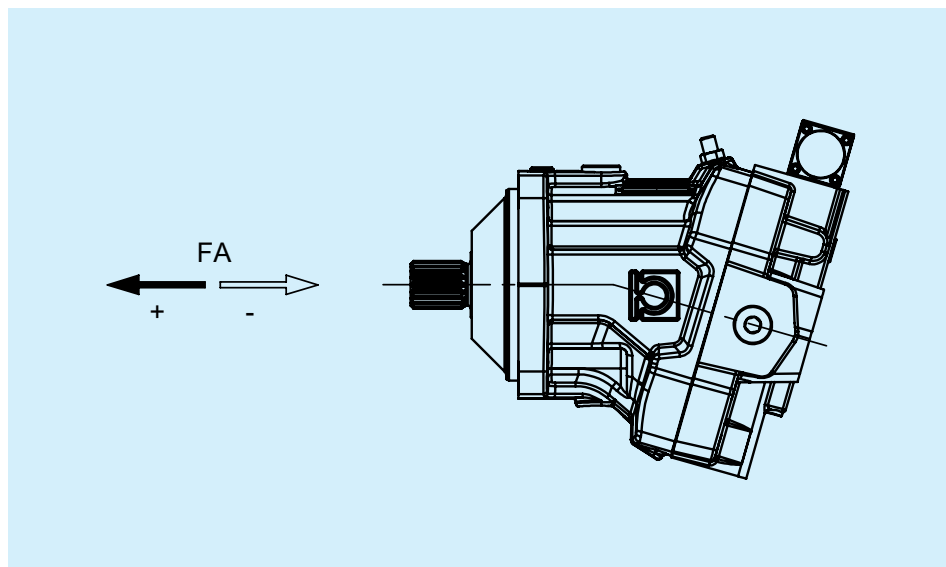
Asse per qualsiasi applicazione (senso di rotazione alternato)



Applicazioni di forze assiali all'albero

Possono essere applicate all'albero forze assiali di compressione (vedi tabella).

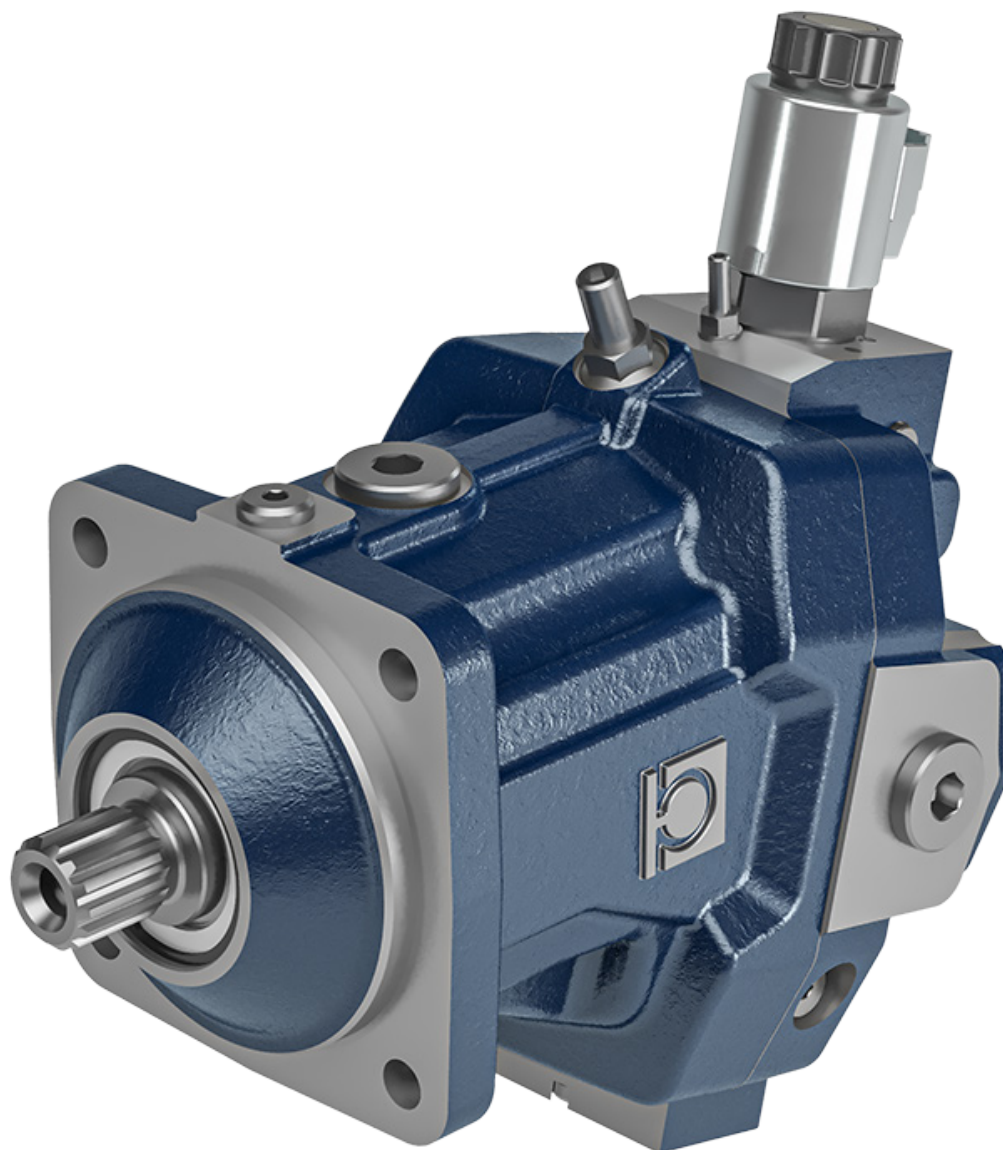
È bene evitare invece carichi assiali di trazione che possono ridurre la vita del cuscinetto principale.



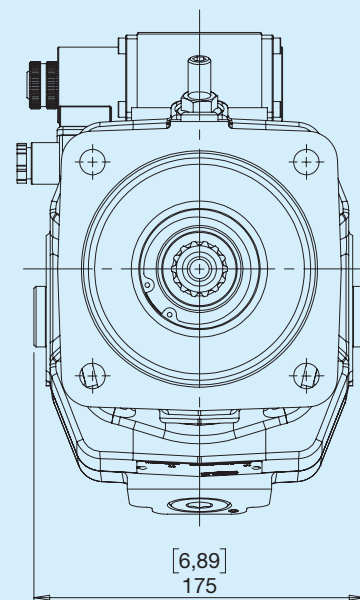
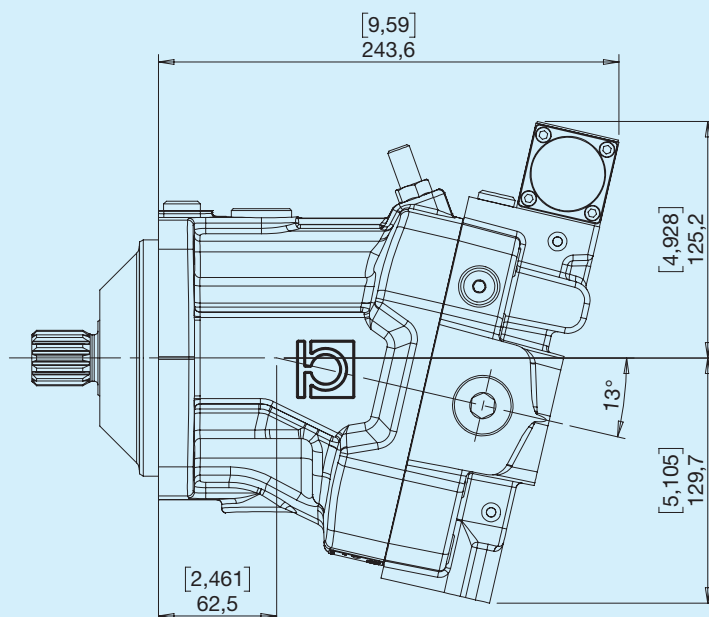
Cilindrata Teorica		Carico assiale MAX senza pressione (*)	Carico assiale MAX a pressione di esercizio
cm3	in3	N	N/bar
60	3,66	1340	118
78	4,76	1340	141
80	4,88	1840	141
108	6,59	1840	184
110	6,71	2000	184
130	7,93	2000	230
160	9,76	3650	230
200	12,2	3650	270

(*) I valori indicati sono quelli massimi e non vanno applicati in funzionamento continuo.

Motori a cilindrata variabile HPBA 060-078

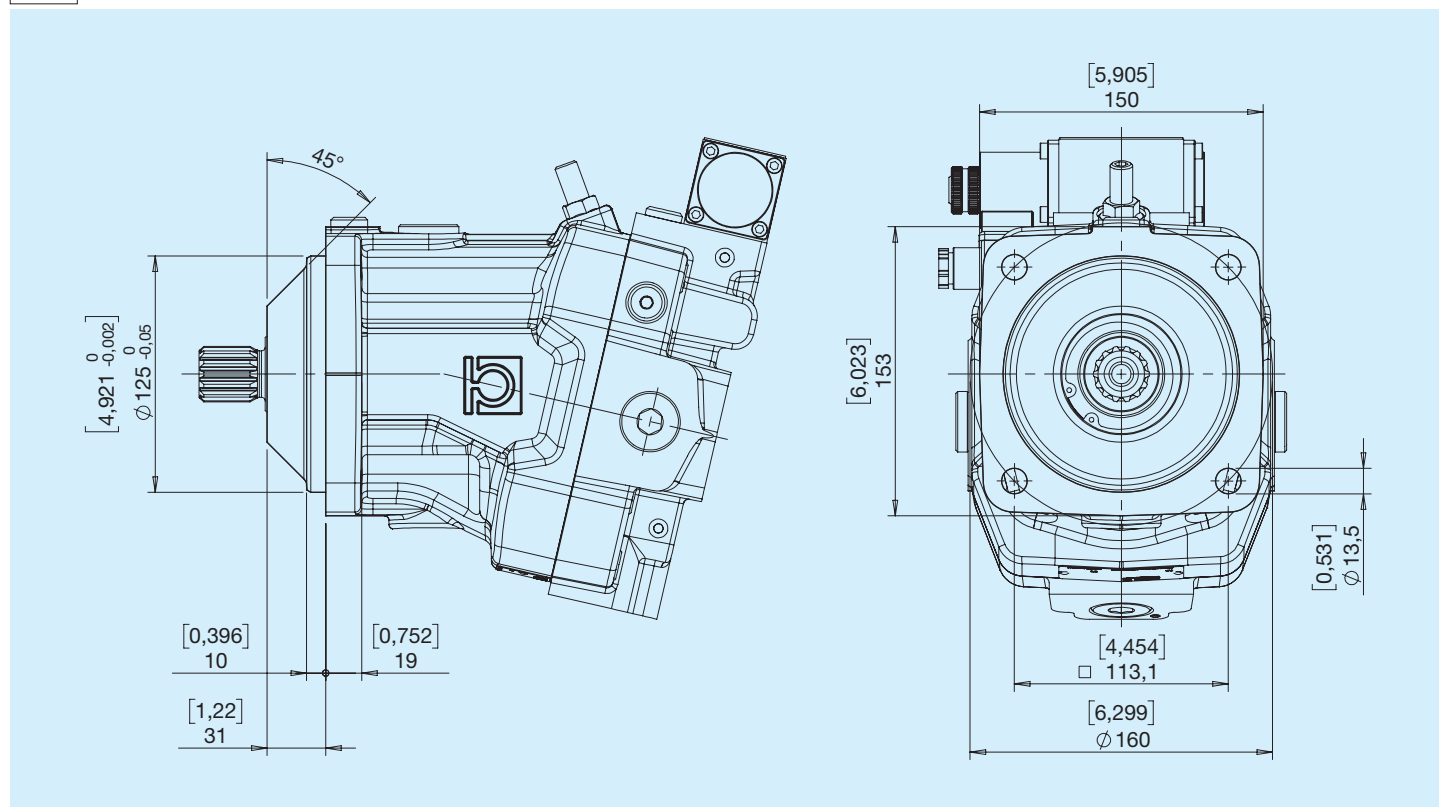


Prima di iniziare l'utilizzo leggere attentamente il documento ISTRUZIONI GENERALI D'IMPIEGO POMPE E MOTORI A PISTONI ASSIALI PER CIRCUITO CHIUSO.

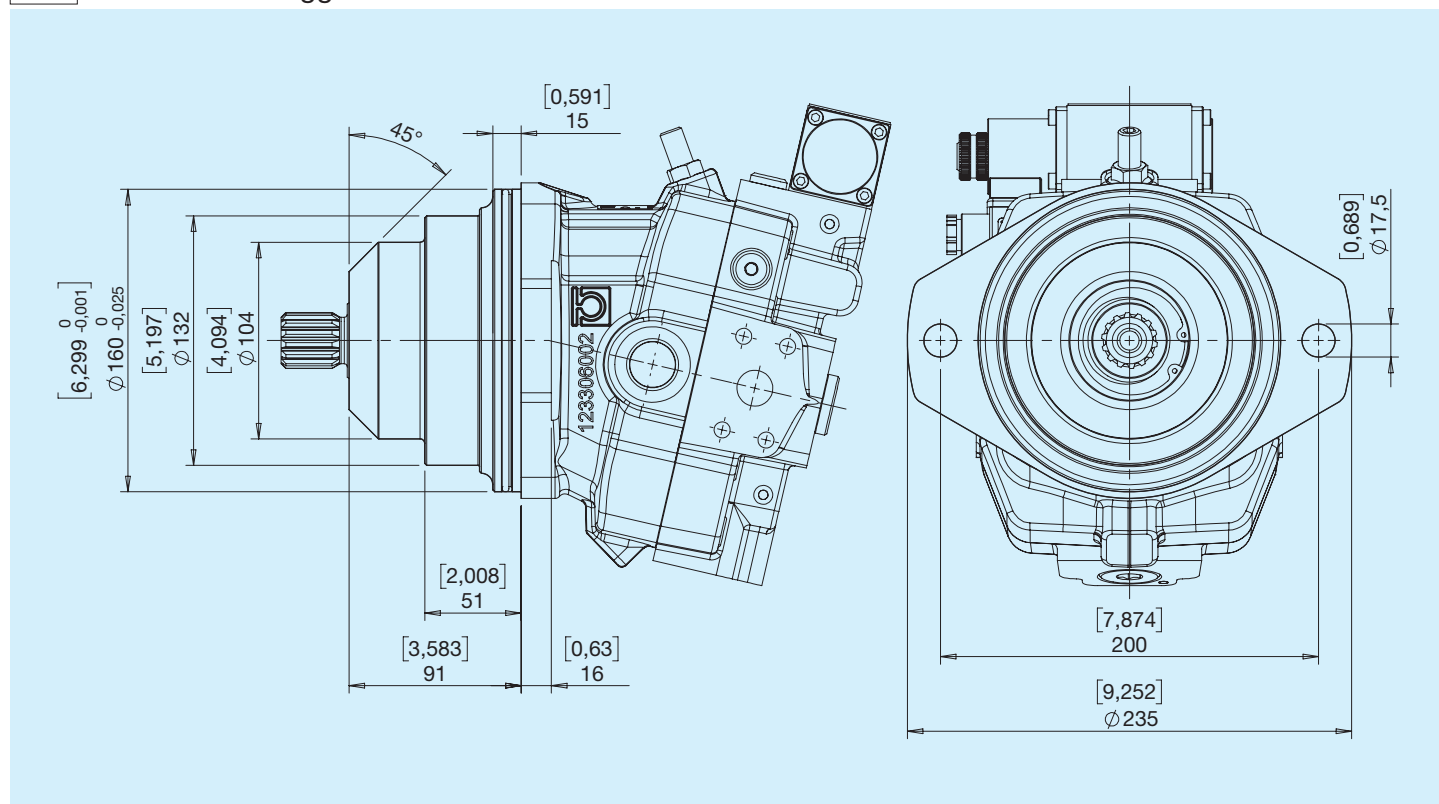


HPBA	Cilindrata teorica		Oscillante	Pressione Continua		Pressione intermittente		Pressione picco		Velocità di rotazione			Massa	
	cm ³	in ³		bar	psi	bar	psi	bar	psi	MAX (max V) min ⁻¹	MAX (min V) min ⁻¹	MIN min ⁻¹	kg	lbs
060	60	3,66	25	380	5510	400	5800	450	6525	4400	5500	500	28	62
078	78	4,73	26	300	4350	350	5075	400	5800	4400	5500	500	28,7	63

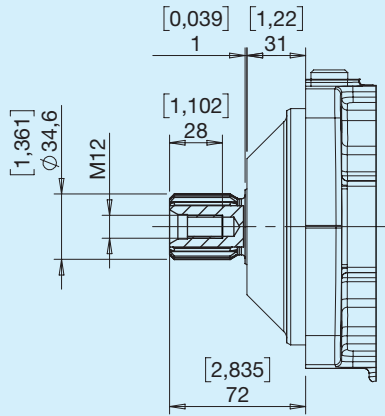
I ISO 4 fori standard



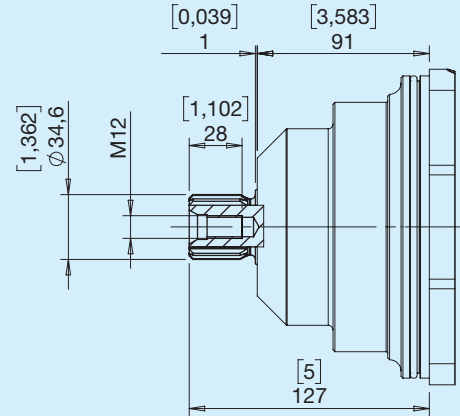
P ISO 2 fori centraggio a cartuccia



C DIN 5480 W35x2x30x16

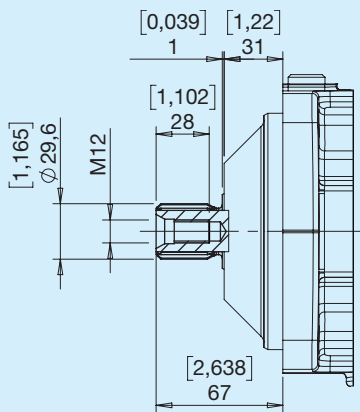


Coppia Max 860 Nm

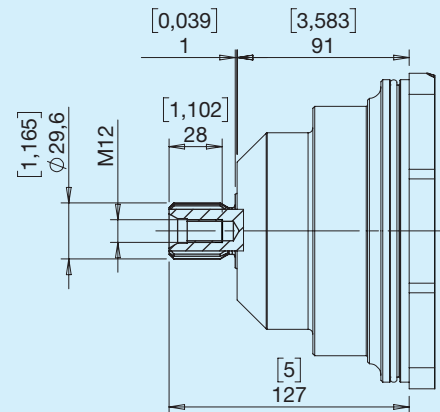


Coppia Max 860 Nm

1 DIN 5480 W30x2x30x14

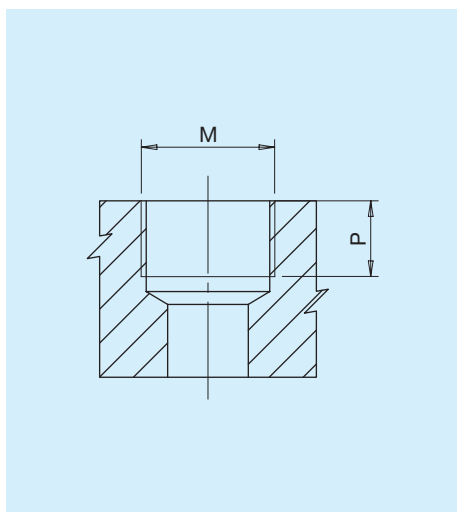


Coppia Max 590 Nm



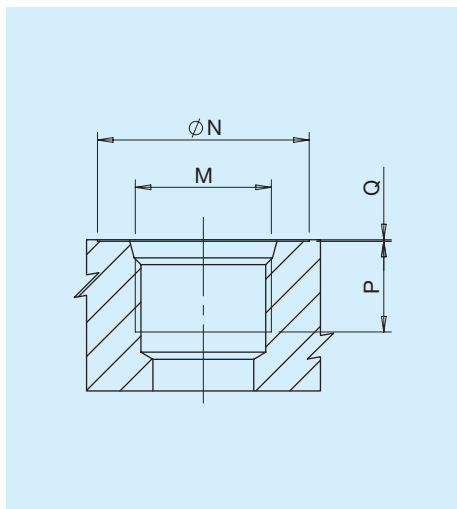
Coppia Max 590 Nm

Tipo G



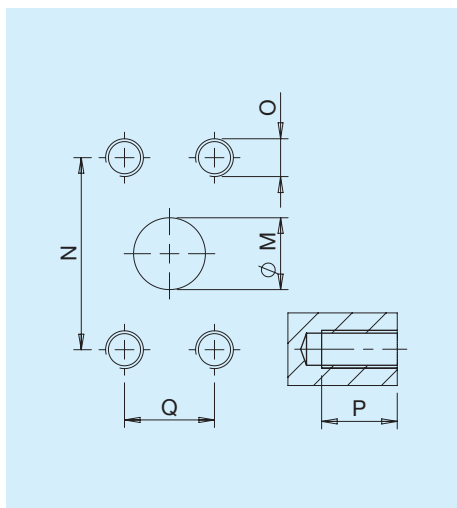
Tipo	M		P	
		Nm	mm	in
G2	Port ISO 1179-1 - G 1/4	17	8	0,31
G6	Port ISO 1179-1 - G 3/4	90	19	0,75
G7	Port ISO 1179-1 - G 1	160	19	0,75

Tipo U



Tipo	Dim.	N		P		Q		M	Nm
		mm	in	mm	in	mm	in		
U2	1/4'	20	0,79	12	0,47	0,3	0,01	Port ISO 11926-1-7/16-20	17
U6	3/4'	41	1,61	20	0,79	0,3	0,01	Port ISO 11926-1-1 1/16-12	90
U7	1'	49	1,93	18	0,70	0,3	0,01	Port ISO 11926-1-1 5/16-12	160

Tipo N

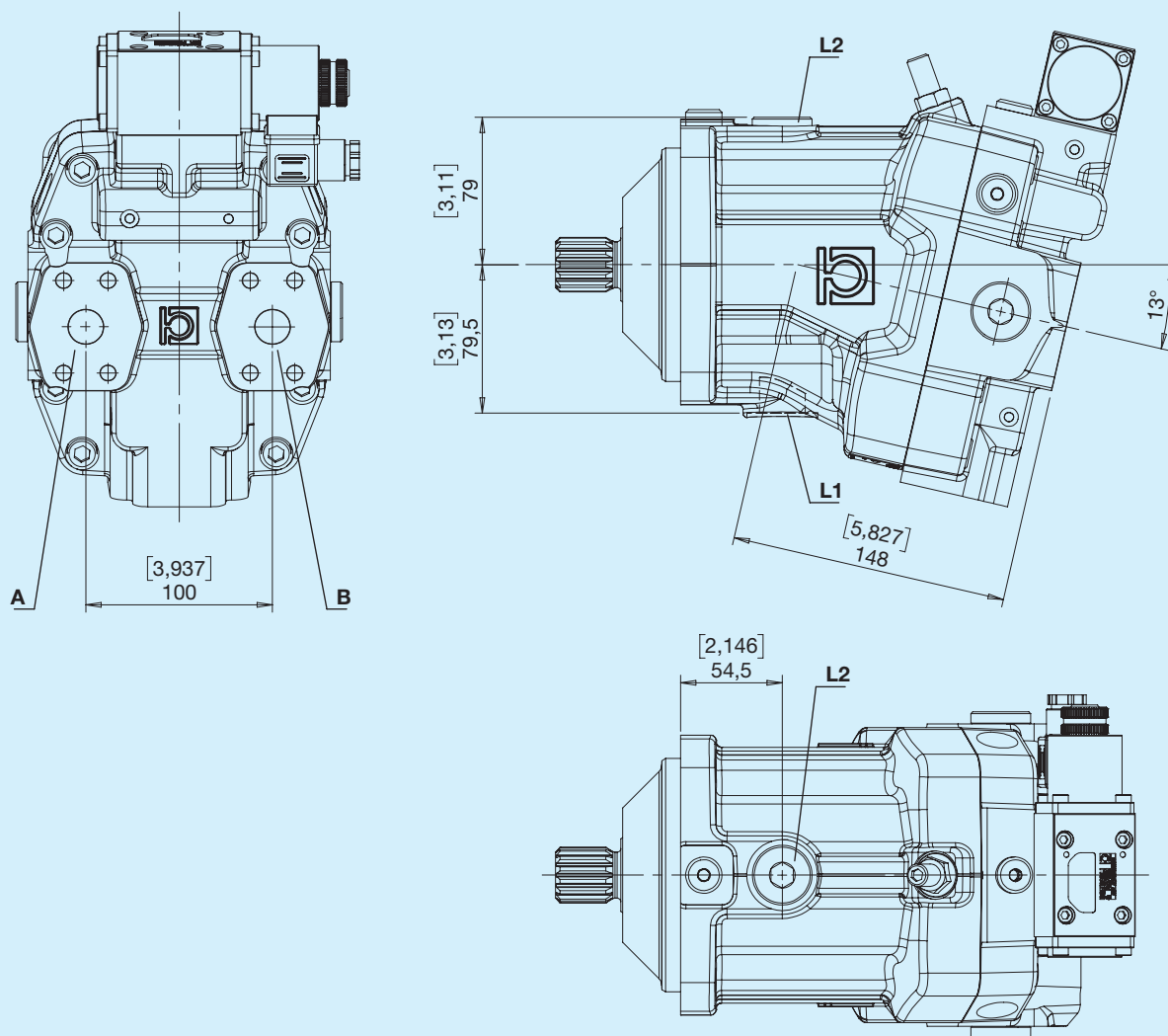


Tipo	M		N		Q		P		O	Nm
	mm	in	mm	in	mm	in	mm	in		
N6	19	0,75	50,8	2	23,8	0,94	17	0,67	M10	38

Combinazioni

Tipo	Ingresso/Uscita A-B	Drenaggio L1-L2	Pilotaggio a-b-x
G	G7	G6	G2
U	U7	U6	U2
N	N6	G6	G2
M	N6	U6	U2

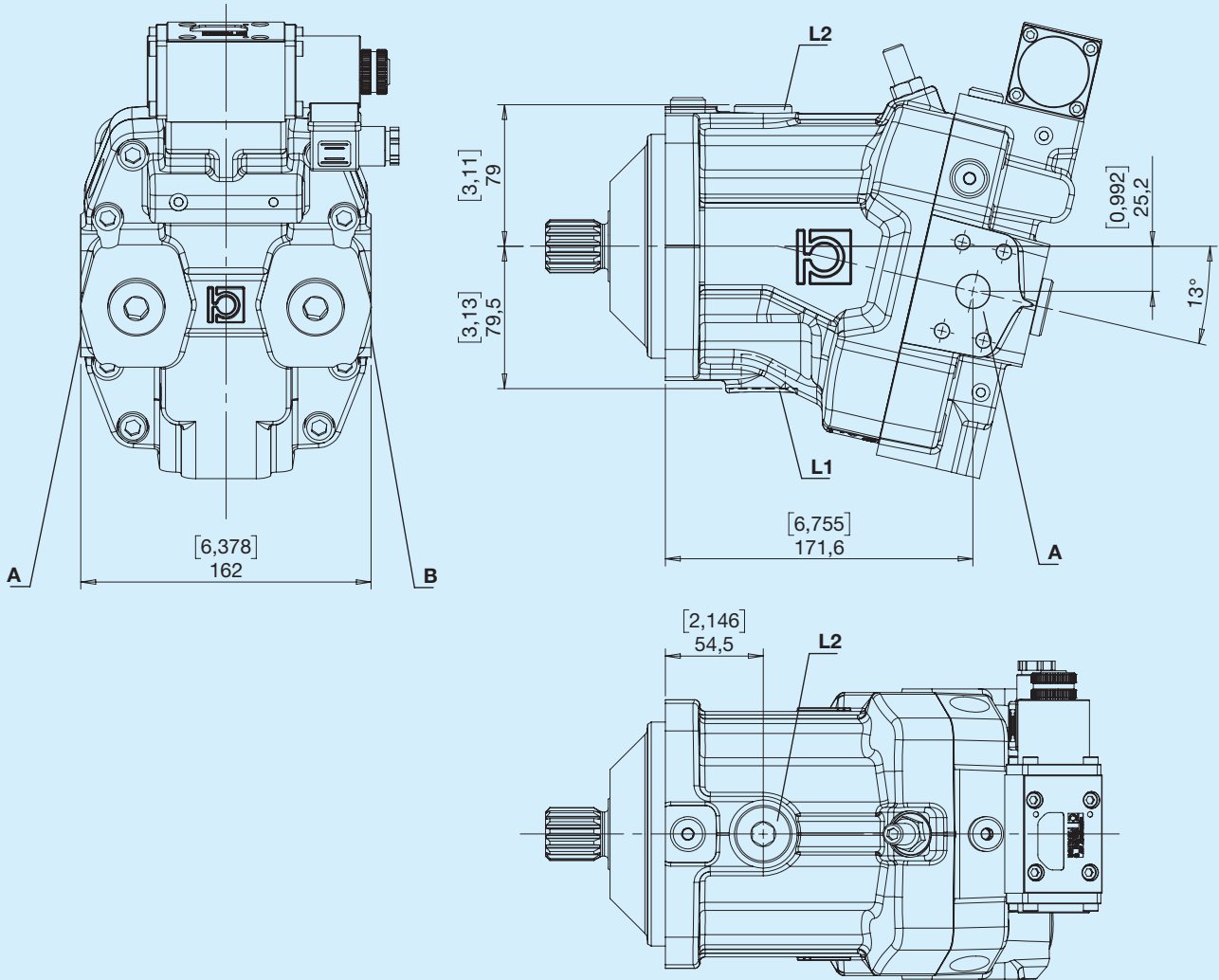
P Posteriori



A,B - Ingresso/Uscita

L1, L2 - Drenaggio

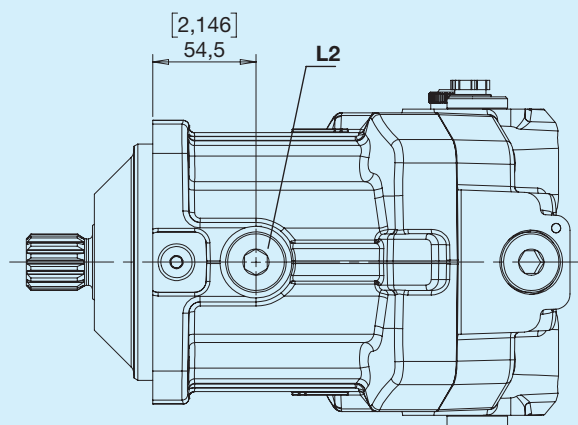
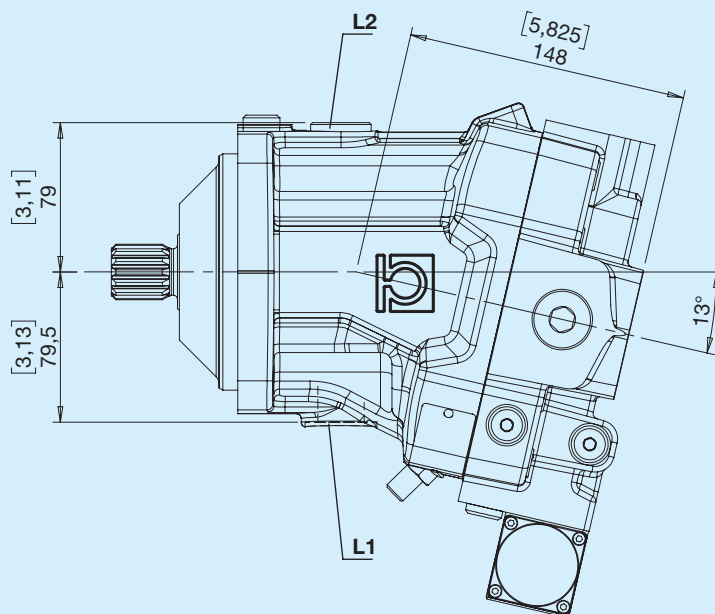
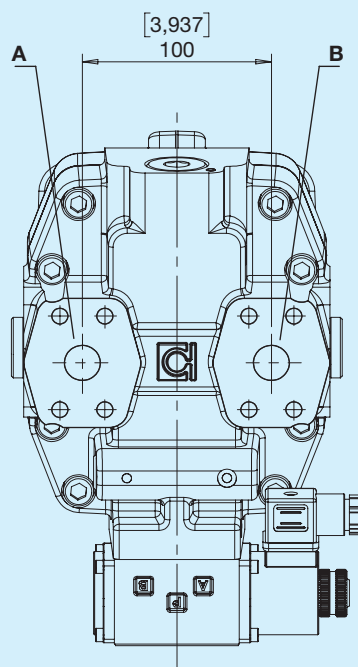
L Laterali contrapposte



A,B - Ingresso/Uscita

L1, L2 - Drenaggio

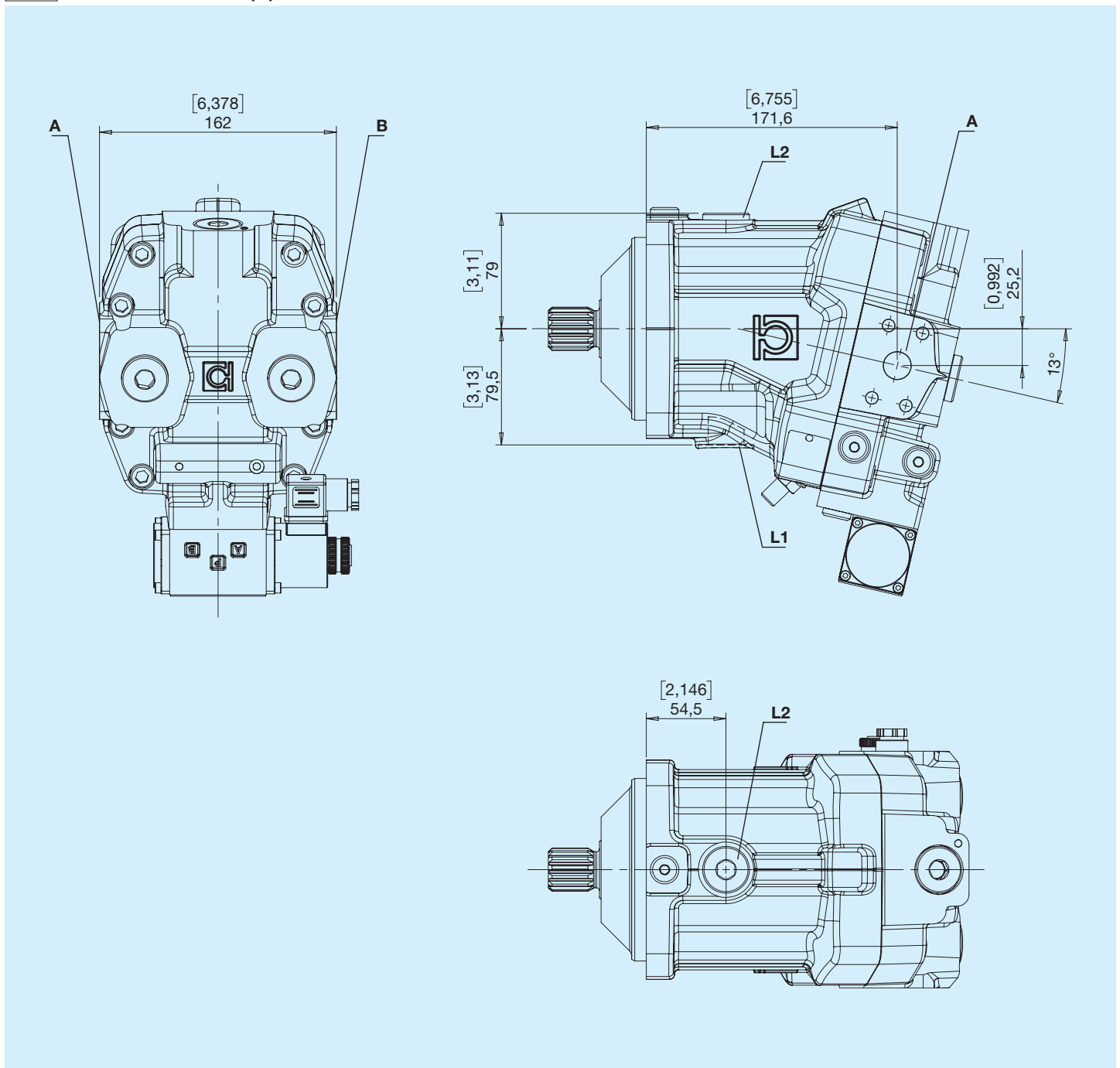
Y Posteriori distributore ruotato



A,B - Ingresso/Uscita

L1, L2 - Drenaggio

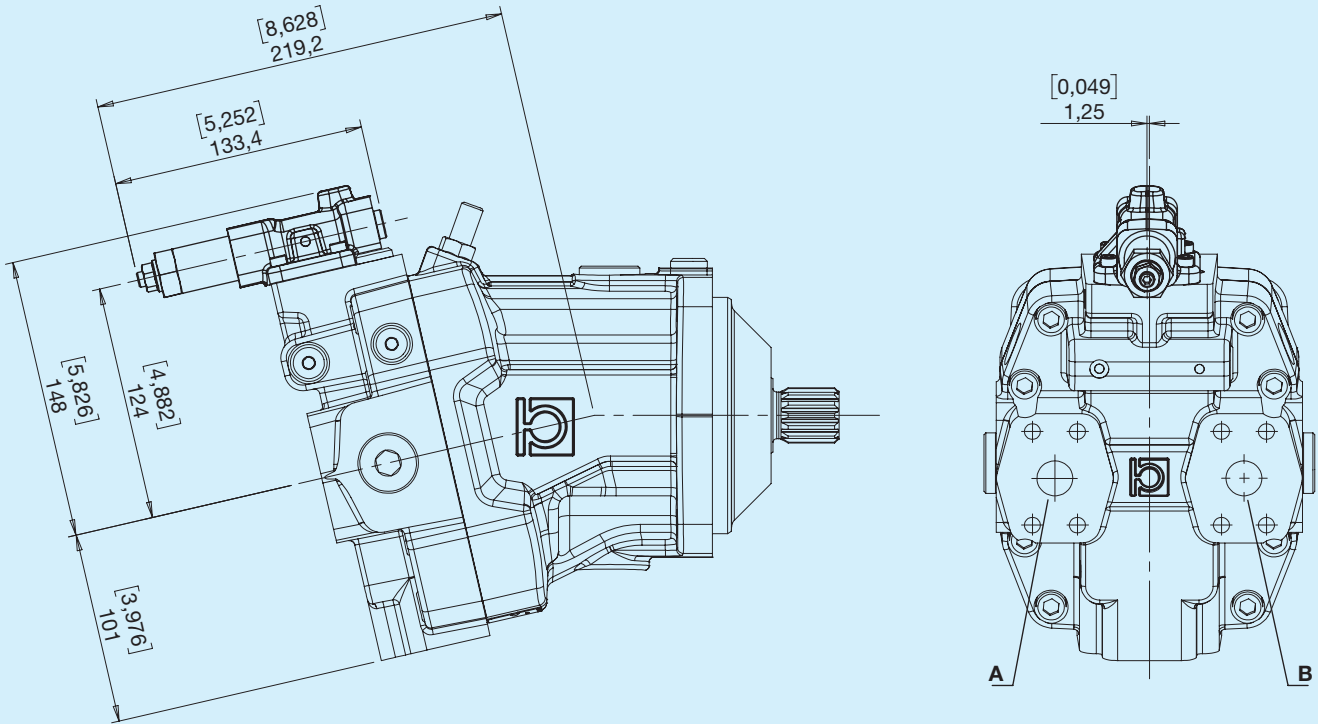
J Laterali contrapposte distributore ruotato



A,B - Ingresso/Uscita

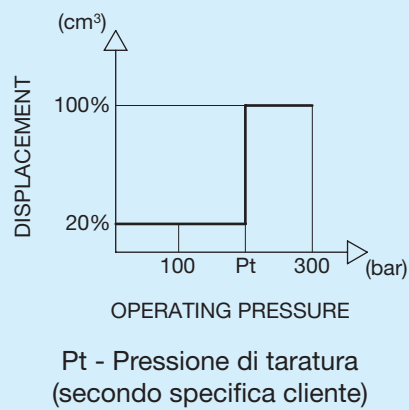
L1, L2 - Drenaggio

A Idraulico automatico ON/OFF

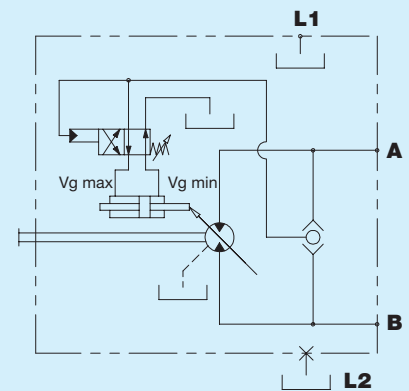


Ingresso	Rotazione
A	Sinistra
B	Destra

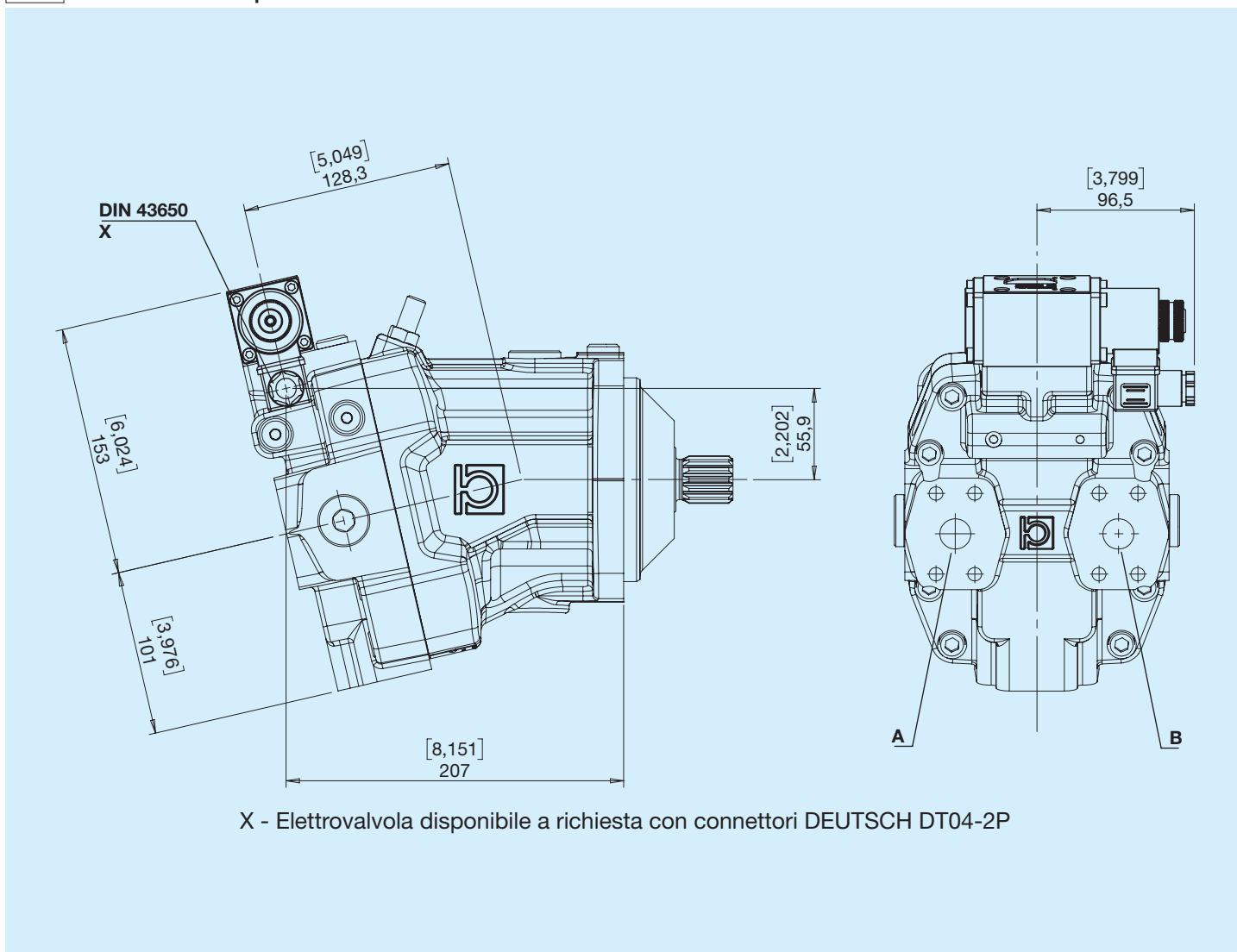
Pilotaggio



Schema idraulico

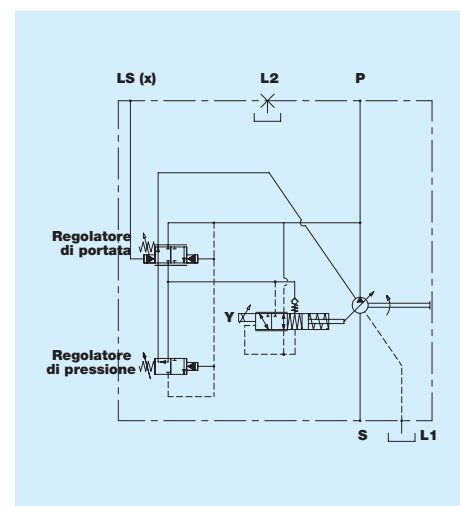


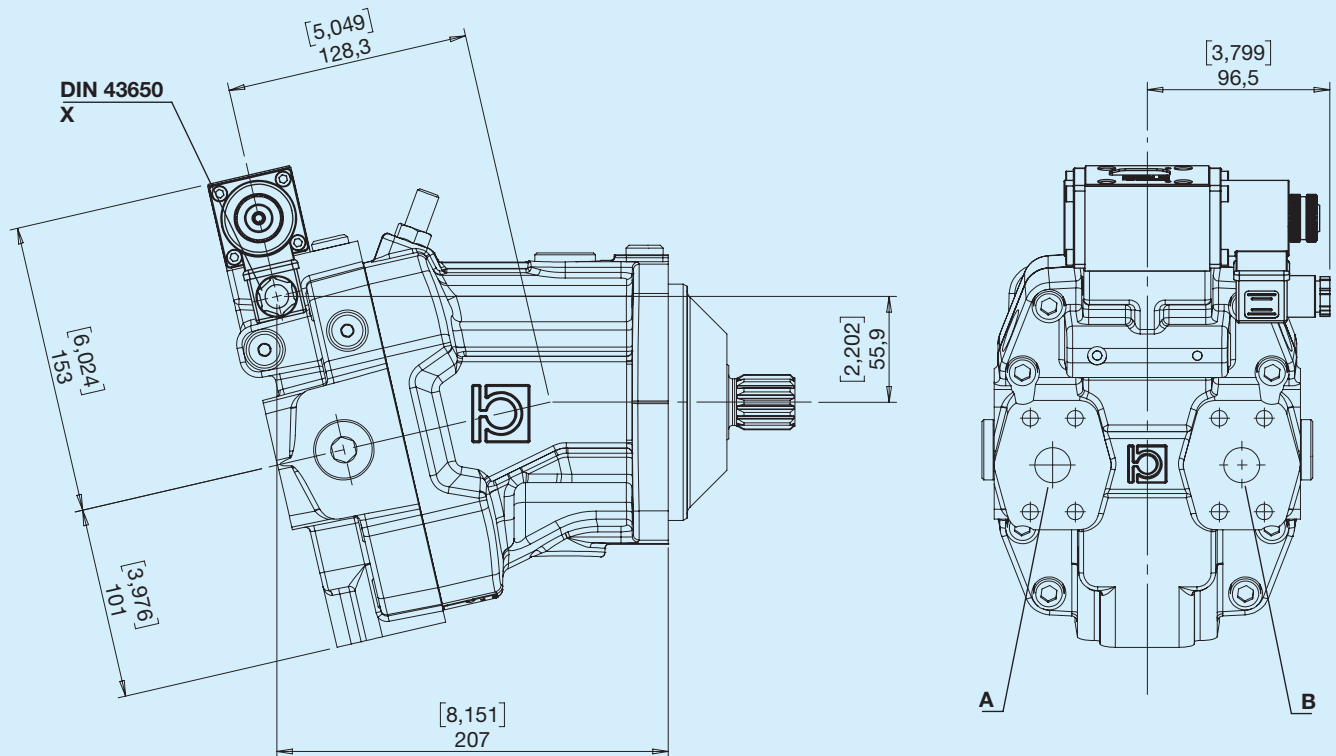
E Elettrico a 2 posizioni 12V



Ingresso	Rotazione
A	Sinistra
B	Destra

Schema idraulico

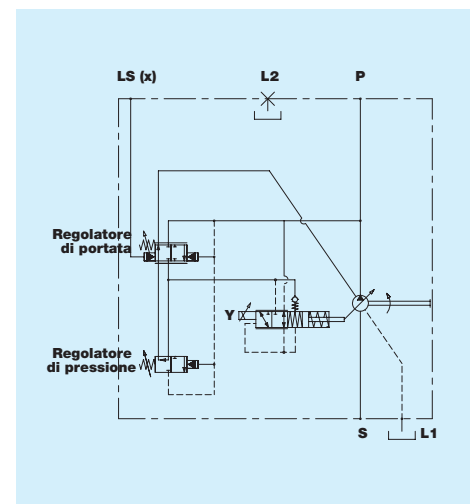


F Elettrico a 2 posizioni 24V

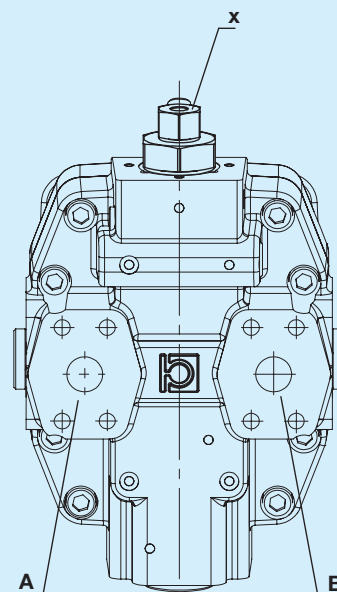
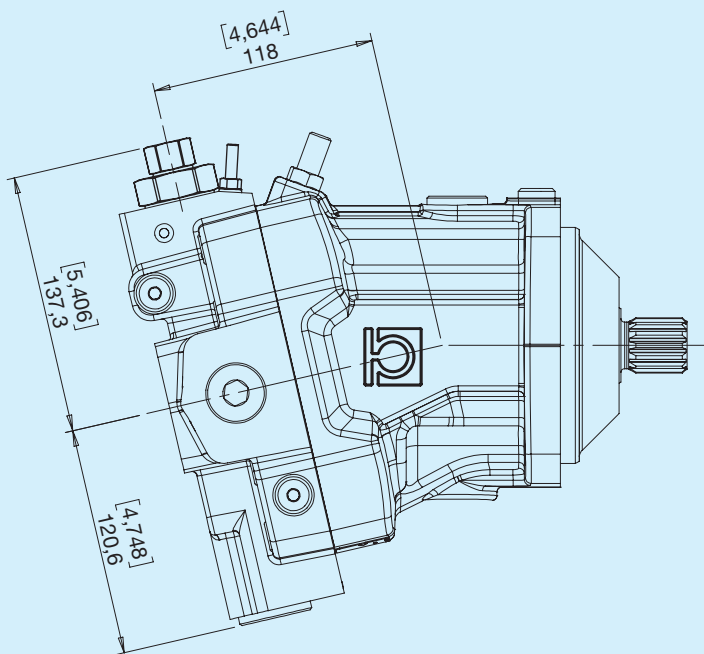
X - Elettrovalvola disponibile a richiesta con connettori DEUTSCH DT04-2P

Ingresso	Rotazione
A	Sinistra
B	Destra

Schema idraulico



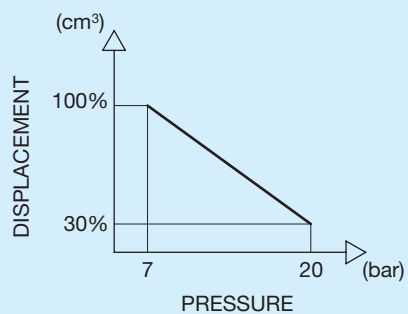
G Idraulico proporzionale



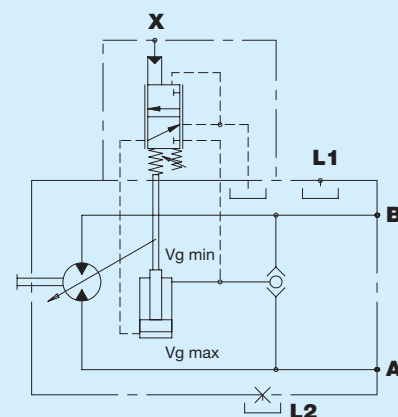
X - Pilotaggio G1/8

Pilotaggio

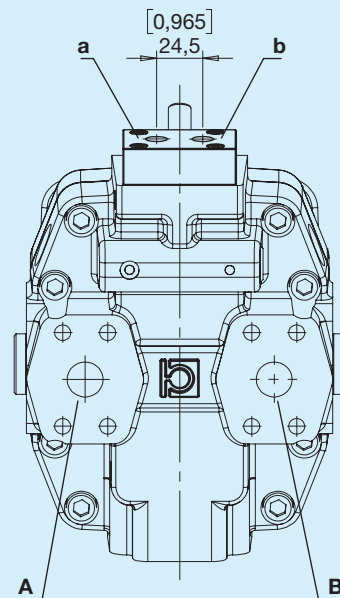
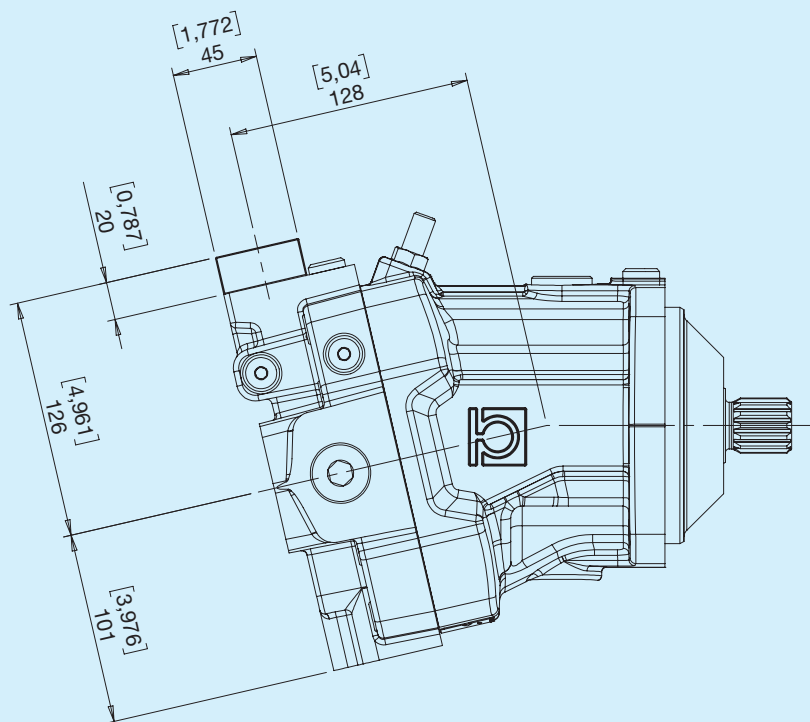
Ingresso	Rotazione
A	Sinistra
B	Destra



Schema idraulico

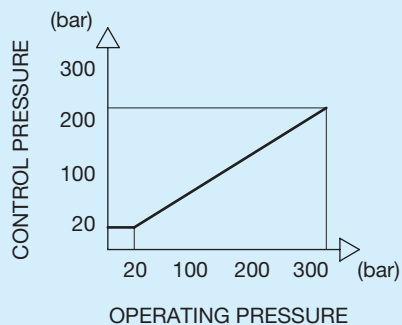


H Idraulico diretto a 2 posizioni

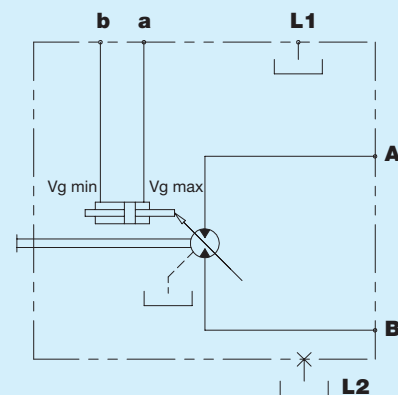


Pilotaggio

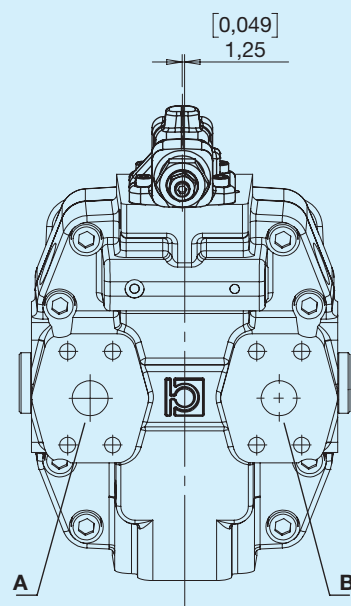
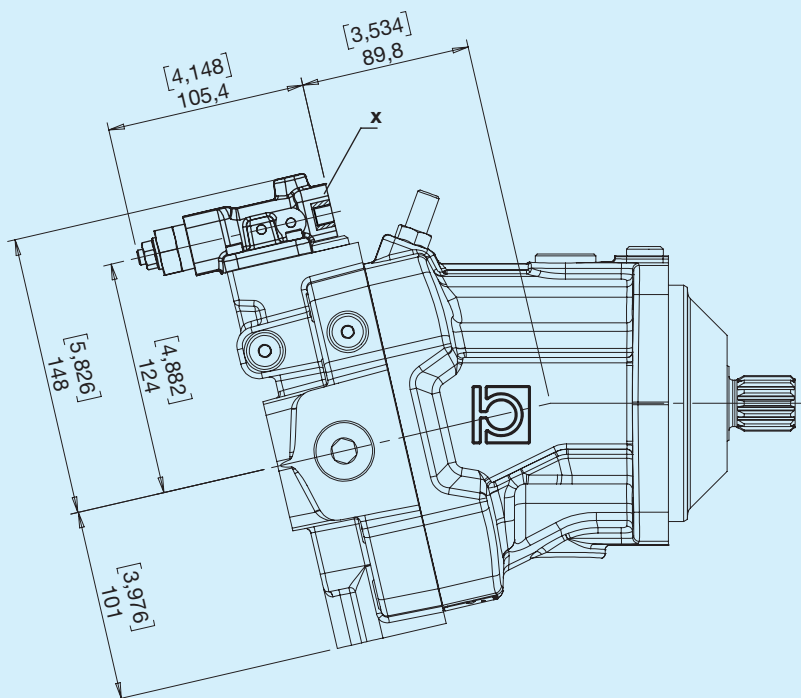
Ingresso	Rotazione
A	Sinistra
B	Destra



Schema idraulico



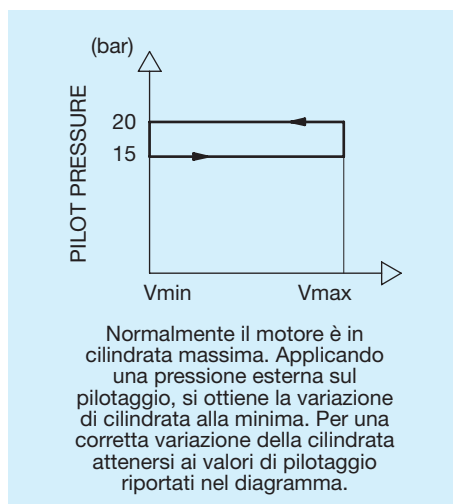
K Idraulico a 2 posizioni a bassa pressione



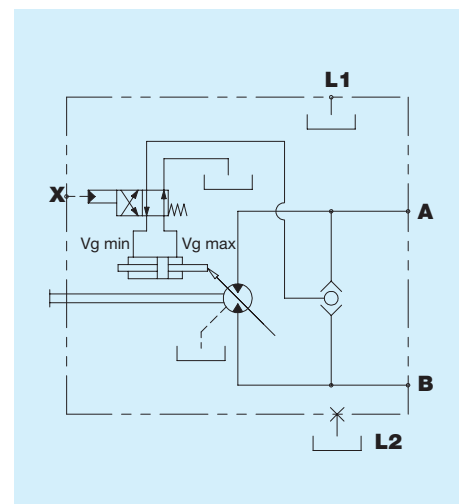
X - Pilotaggio G1/8

Ingresso	Rotazione
A	Sinistra
B	Destra

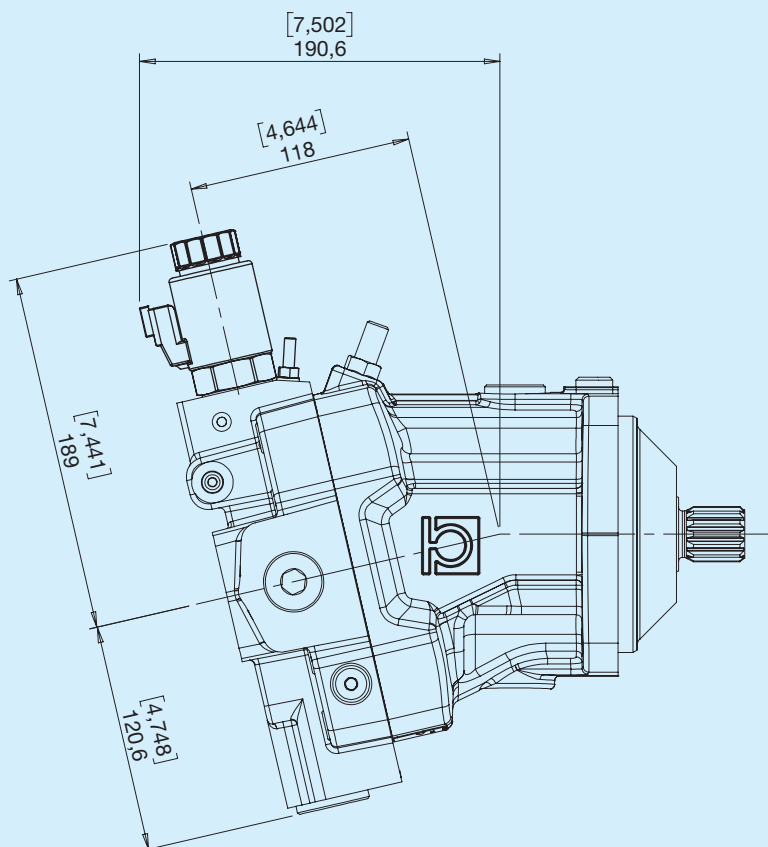
Diagramma



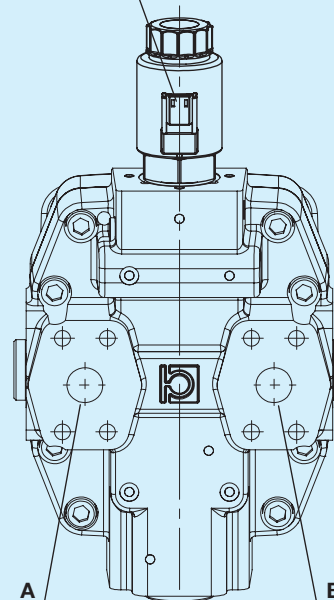
Schema idraulico



O Elettrico proporzionale retroazionato 12V



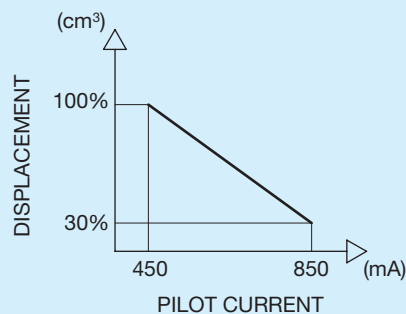
DEUTSCH DT04-2P
X



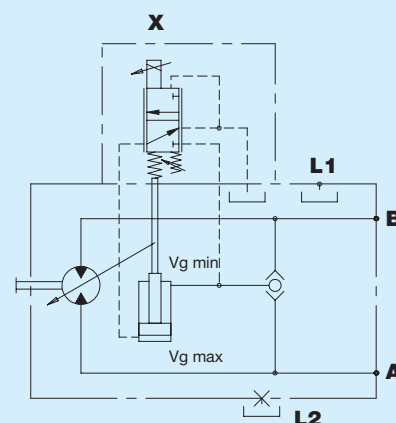
X - Elettrovalvola

Ingresso	Rotazione
A	Sinistra
B	Destra

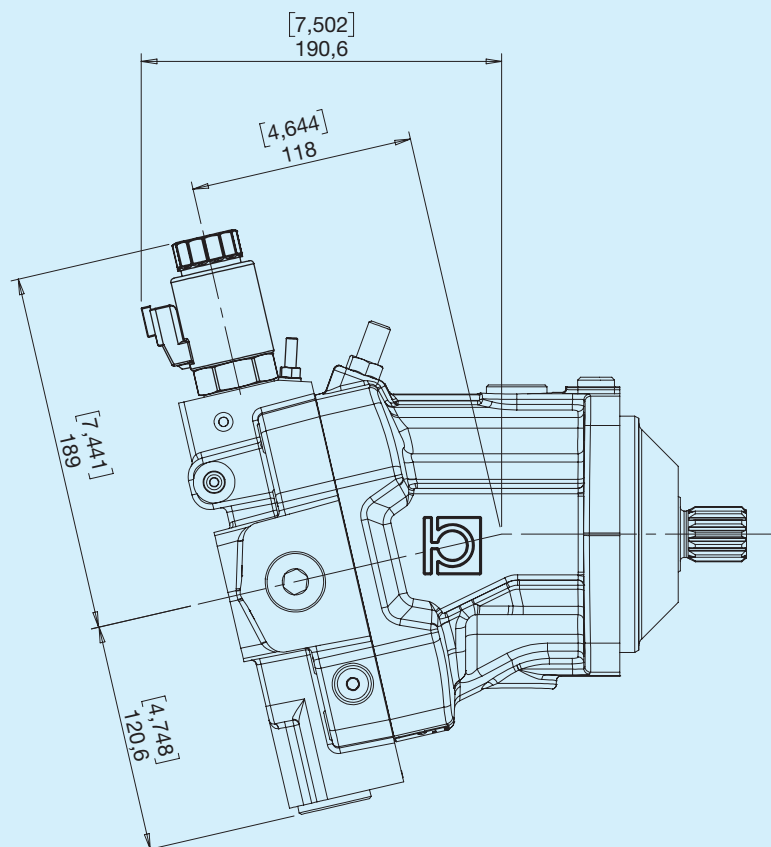
Pilotaggio



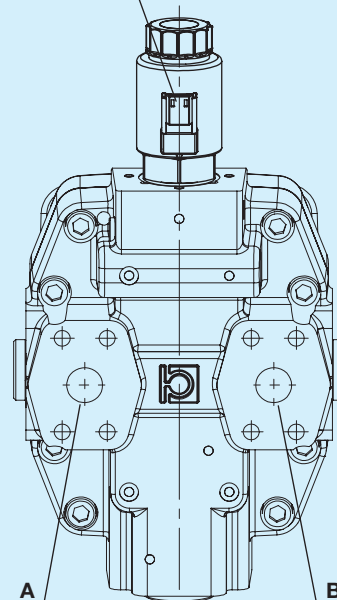
Schema idraulico



V Elettrico proporzionale retroazionato 24V



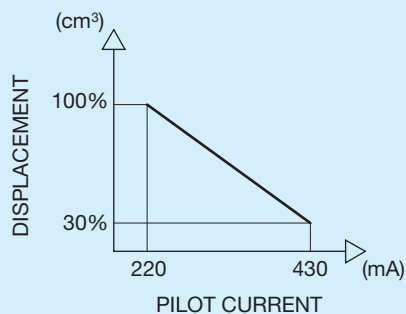
DEUTSCH DT04-2P
X



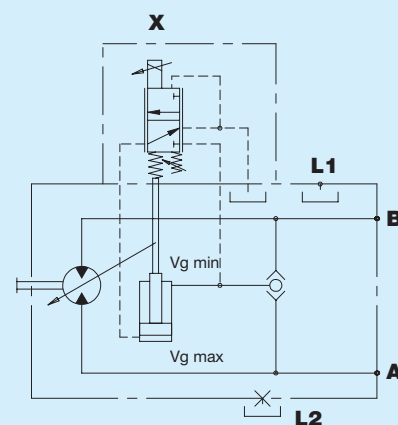
X - Elettrovalvola

Pilotaggio

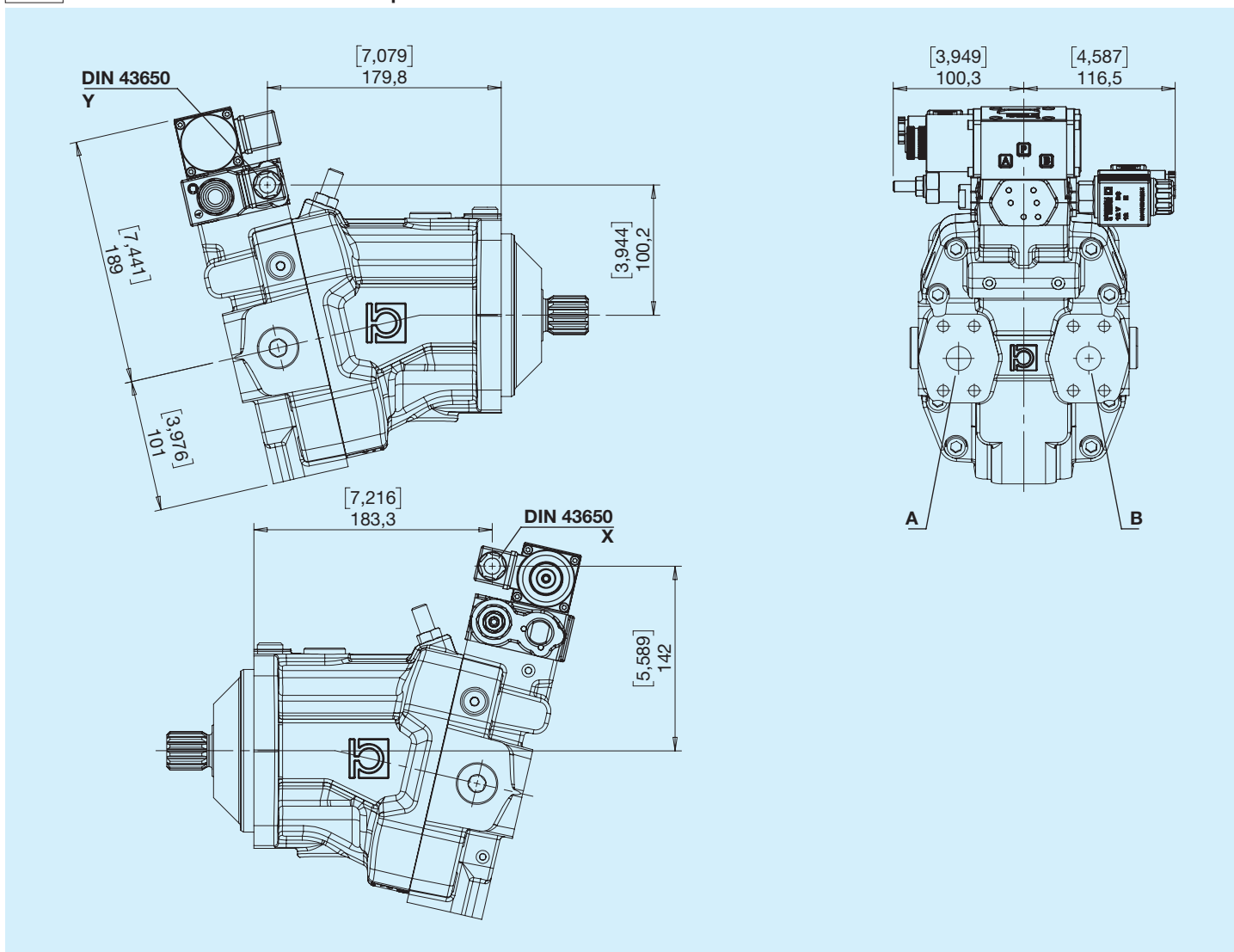
Ingresso	Rotazione
A	Sinistra
B	Destra



Schema idraulico

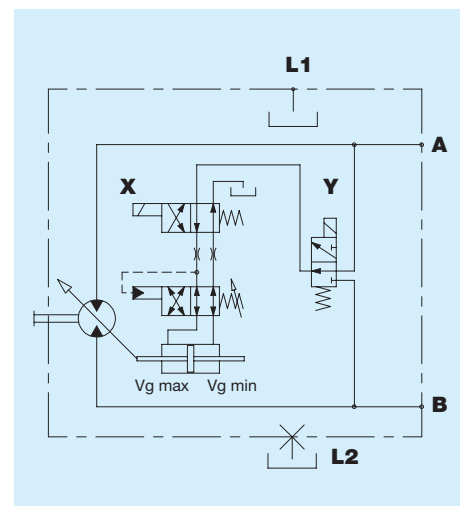


R Elettrico ON/OFF con pressure override e selettore di canale

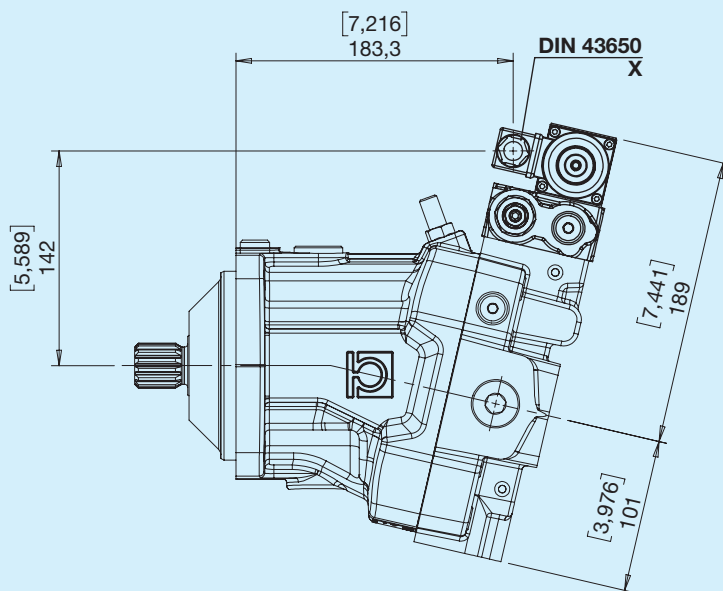
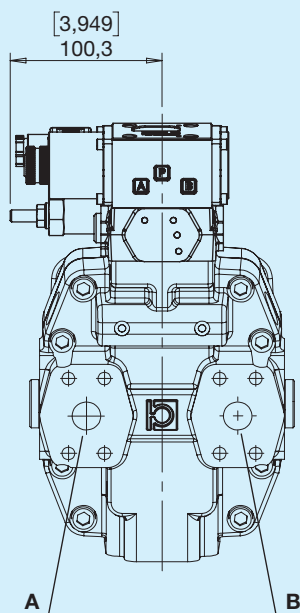


Ingresso	Rotazione
A	Sinistra
B	Destra

Schema idraulico

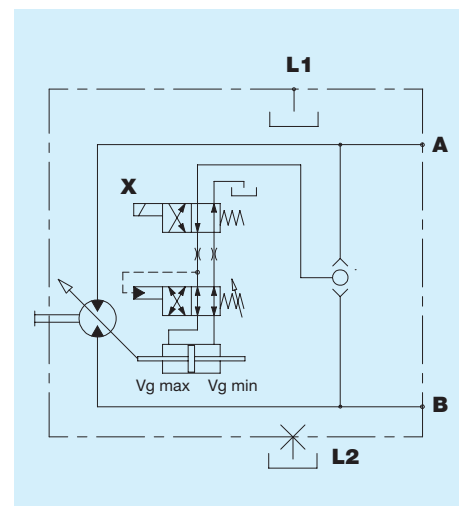


U Elettrico ON/OFF con pressure override

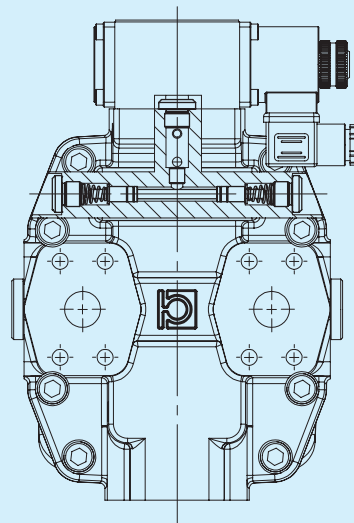
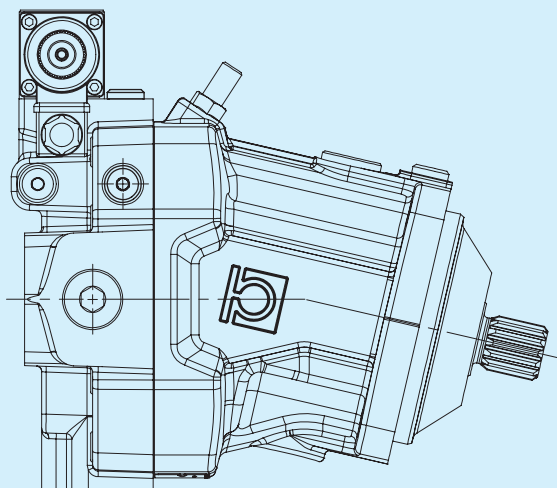


Ingresso	Rotazione
A	Sinistra
B	Destra

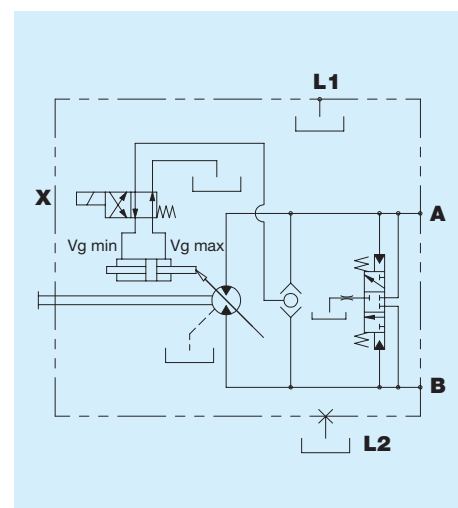
Schema idraulico



V Valvola di flussaggio (5-7 l/min)



Schema idraulico

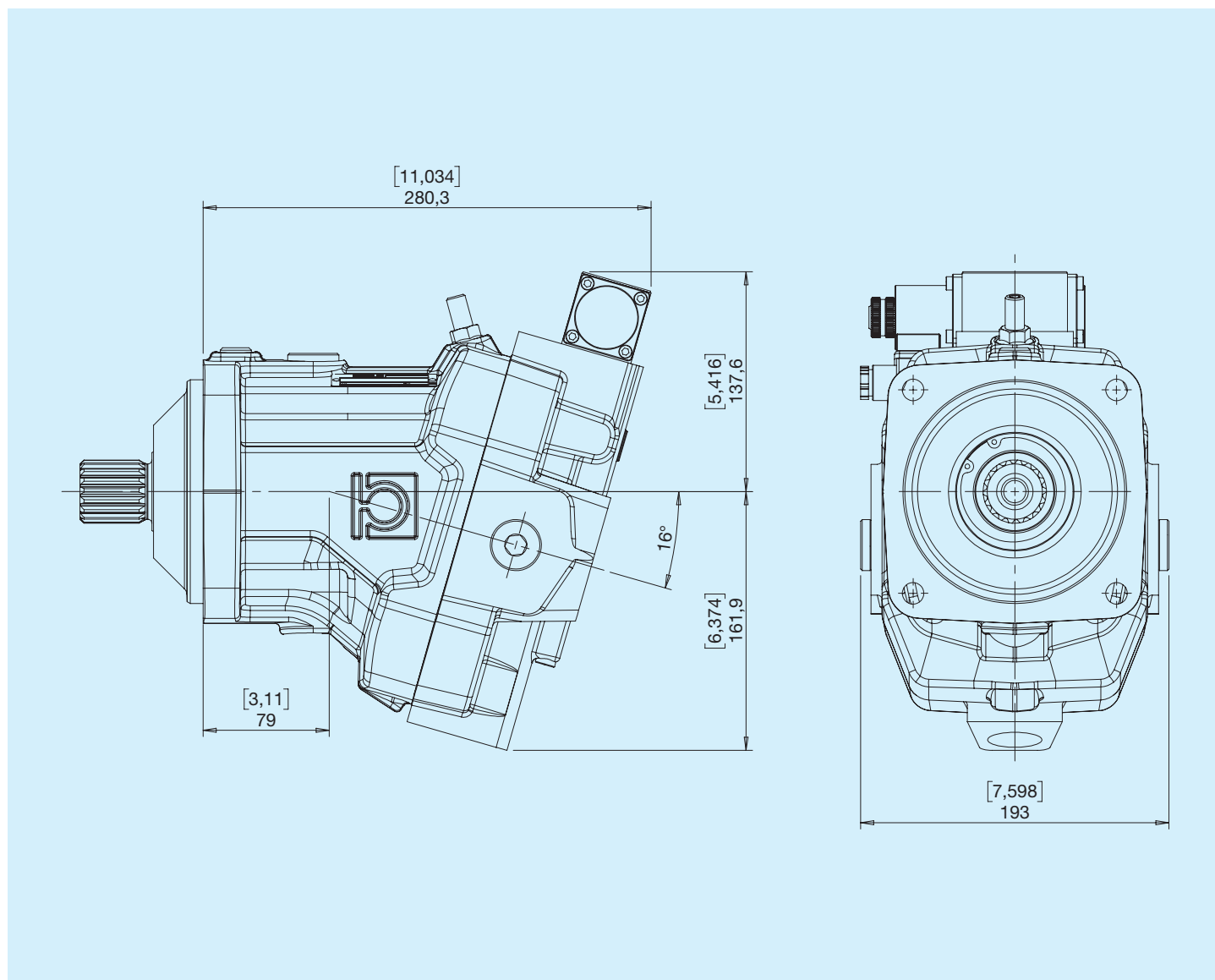


1 2 3			4 5		6	7	8	9	10	11	12 13 14		
HPBA 060-078													
1 2 3			Cilindrata standard										
060			078										
4 5			Cilindrata minima										
...													
6			Flange										
I ISO 4 fori standard			P ISO 2 fori centraggio a cartuccia										
7			Alberi										
C DIN 5480 W35x2x30x16			1 DIN 5480 W30x2x30x14										
8			Tipo bocche										
G Gas			U Unf		N Gas-Ingresso/Uscita SAE				M Unf-Ingresso/Uscita SAE				
9			Posizione bocche										
P Posteriori			L Laterali contrapposte		Y Posteriori distributore ruotato (non disponibile per comandi O - V - G)				J Laterali contrapposte distributore ruotato (non disponibile per comandi O - V - G)				
10			Comandi										
A Idraulico automatico ON/OFF			G Idraulico proporzionale		O Elettrico proporzionale retroazionato 12V				U Elettrico ON/OFF con pressione override				
E Elettrico a 2 posizioni 12V			H Idraulico diretto a 2 posizioni		V Elettrico proporzionale retroazionato 24V								
F Elettrico a 2 posizioni 24V			K Idraulico a 2 posizioni a bassa pressione		R Elettrico ON/OFF con pressione override e selettore di canale								
11			Accessori										
0 Nessuna opzione			V Valvola di flussaggio										
12 13 14			Esecuzioni speciali										
...													

Motori a cilindrata variabile HPBA 080-108

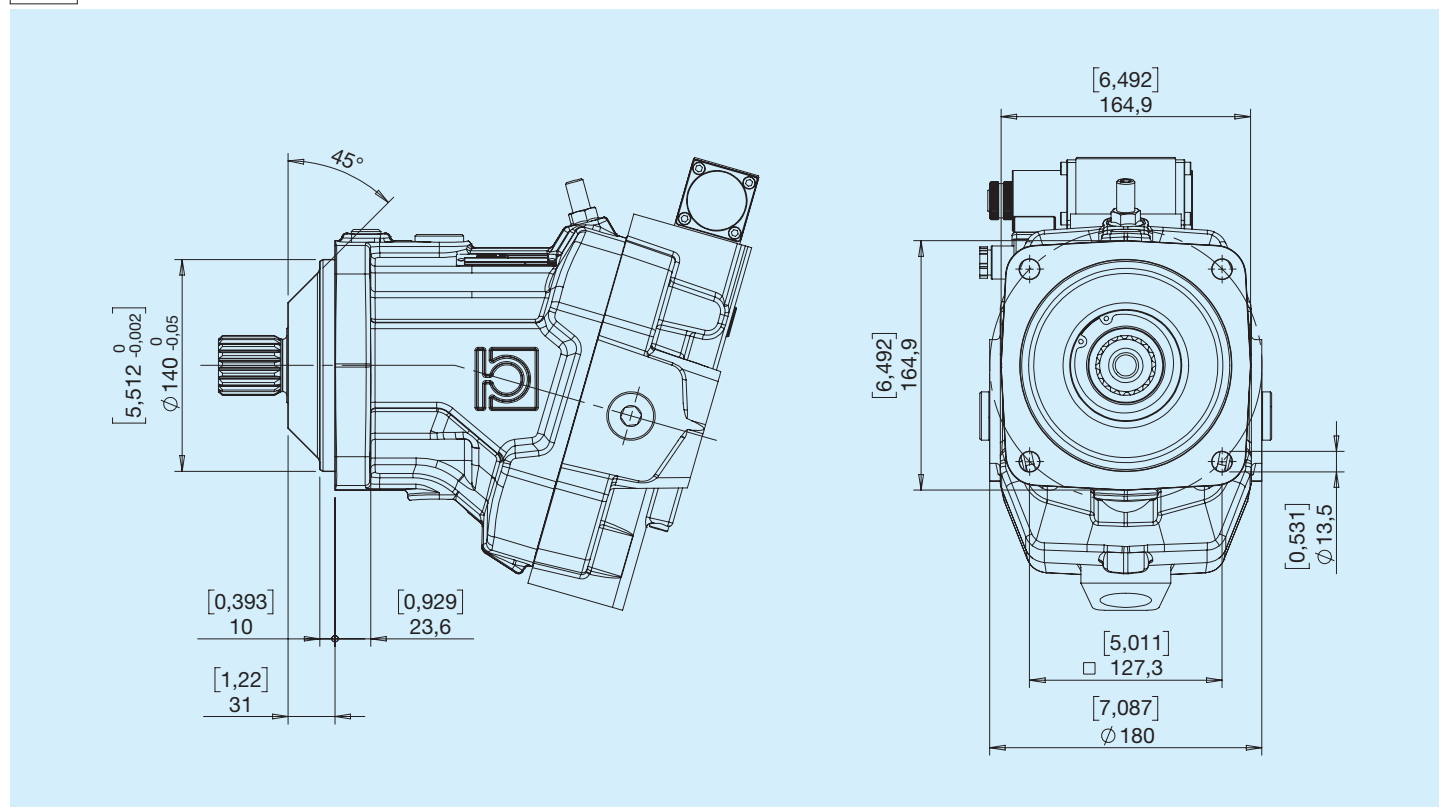


Prima di iniziare l'utilizzo leggere attentamente il documento ISTRUZIONI GENERALI D'IMPIEGO POMPE E MOTORI A PISTONI ASSIALI PER CIRCUITO CHIUSO.

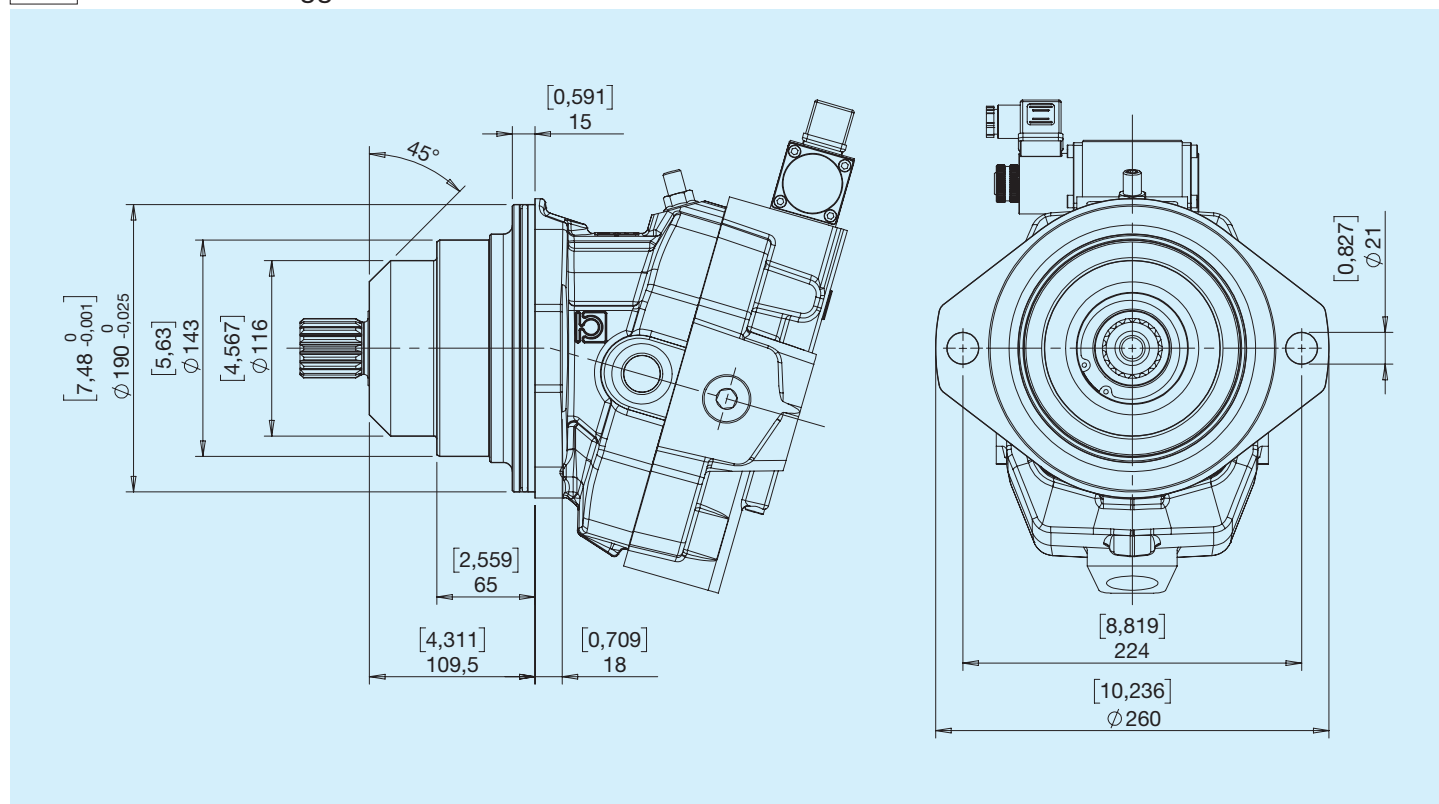


HPBA	Cilindrata teorica		Oscillante °	Pressione Continua		Pressione intermittente		Pressione picco		Velocità di rotazione			Massa	
	cm ³	in ³		bar	psi	bar	psi	bar	psi	MAX (max V) min ⁻¹	MAX (min V) min ⁻¹	MIN min ⁻¹	kg	lbs
080	80	4,88	25	350	5075	400	5800	450	6525	3200	5000	500	38	84
108	108	6,59	25	350	5075	400	5800	450	6525	3200	5000	500	38	84

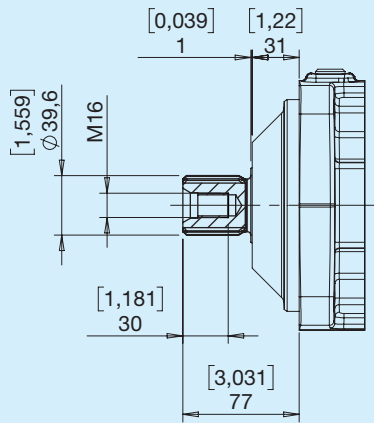
I ISO 4 fori standard



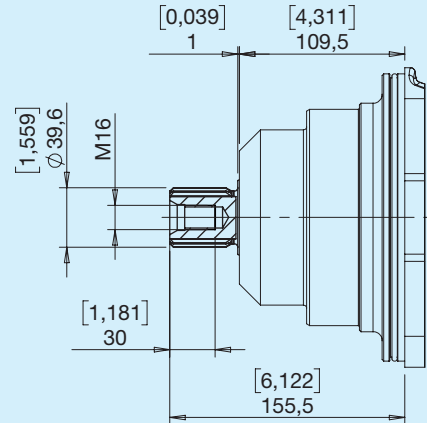
P ISO 2 fori centraggio a cartuccia



B DIN 5480 W40x2x30x18

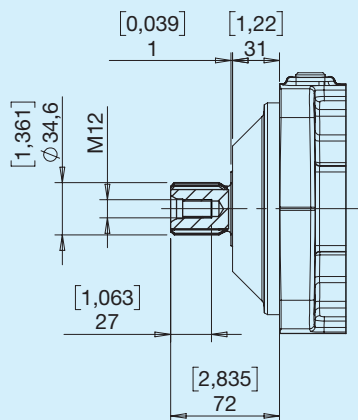


Coppia Max 1310 Nm

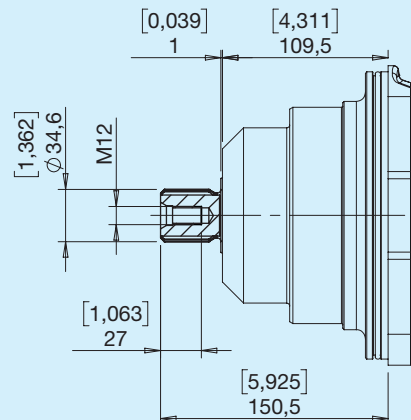


Coppia Max 1310 Nm

C DIN 5480 W35x2x30x16

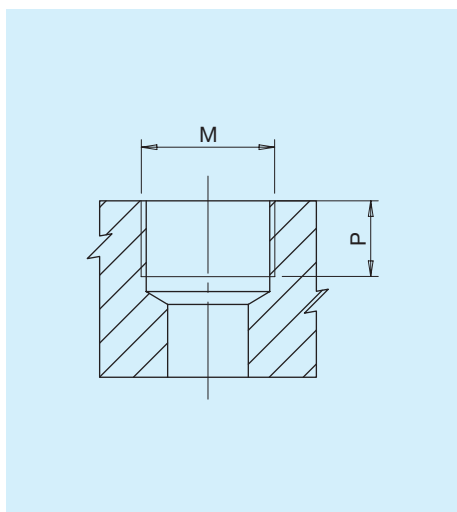


Coppia Max 860 Nm



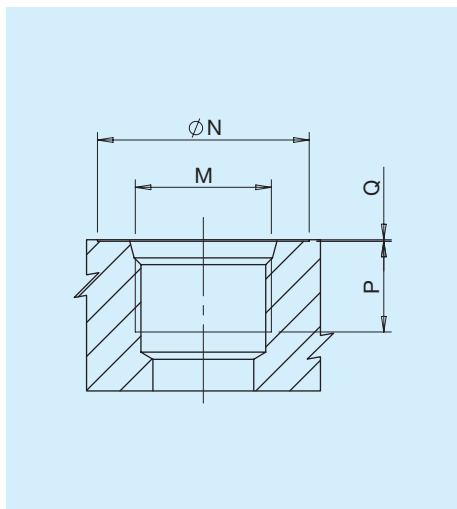
Coppia Max 860 Nm

Tipo G



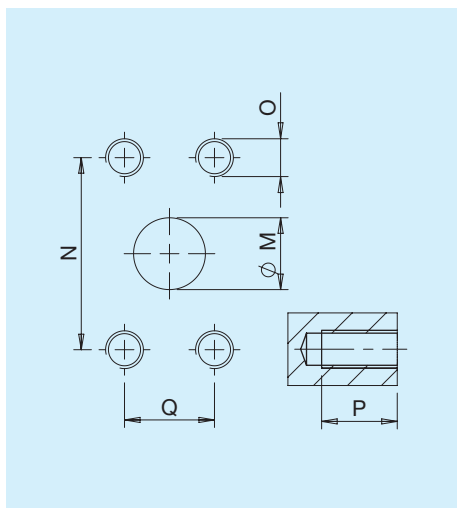
Tipo	M		P	
		Nm	mm	in
G2	Port ISO 1179-1 - G 1/4	17	8	0,31
G6	Port ISO 1179-1 - G 3/4	90	19	0,75
G7	Port ISO 1179-1 - G 1	160	19	0,75

Tipo U



Tipo	Dim.	N		P		Q		M	
		mm	in	mm	in	mm	in		Nm
U2	1/4"	20	0,79	12	0,47	0,3	0,01	Port ISO 11926-1-7/16-20	17
U6	3/4"	41	1,61	20	0,79	0,3	0,01	Port ISO 11926-1-1 1/16-12	90
U7	1"	49	1,93	18	0,70	0,3	0,01	Port ISO 11926-1-1 5/16-12	160

Tipo N

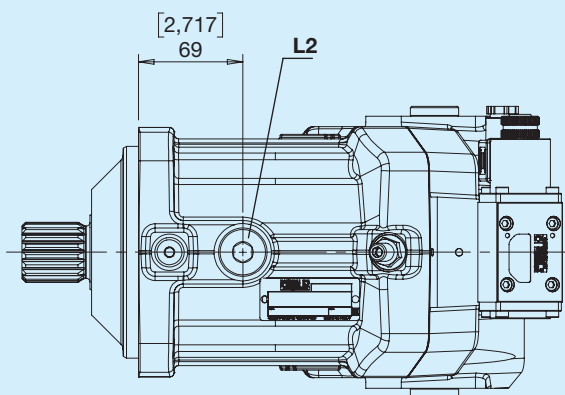
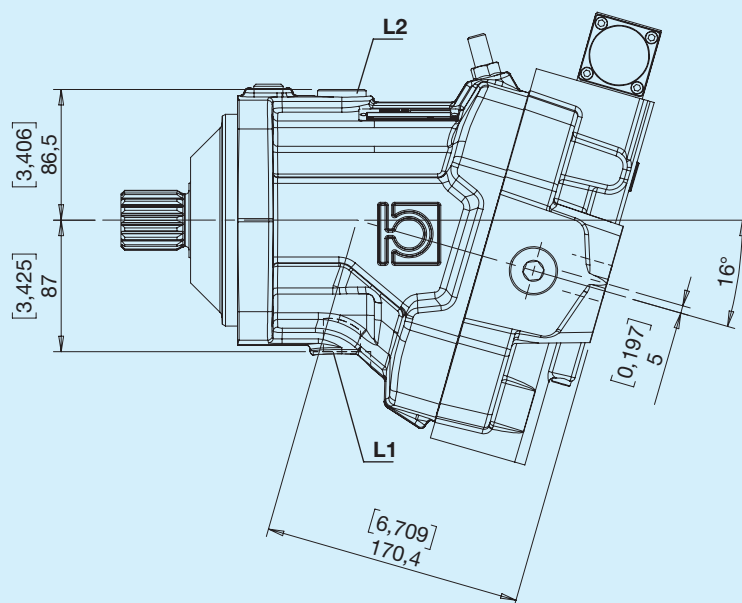
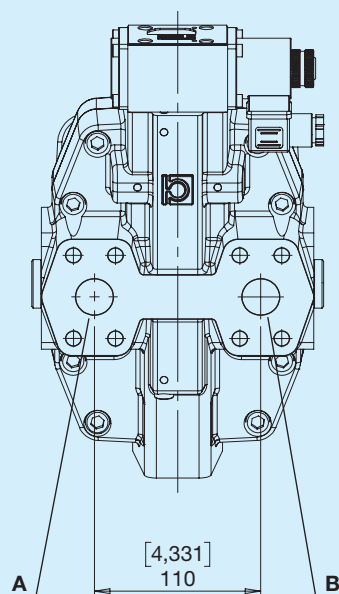


Tipo	M		N		Q		P		O	
	mm	in	mm	in	mm	in	mm	in		Nm
N7	25	1	57,15	2,25	27,76	1,09	20	0,79	M12	70

Combinazioni

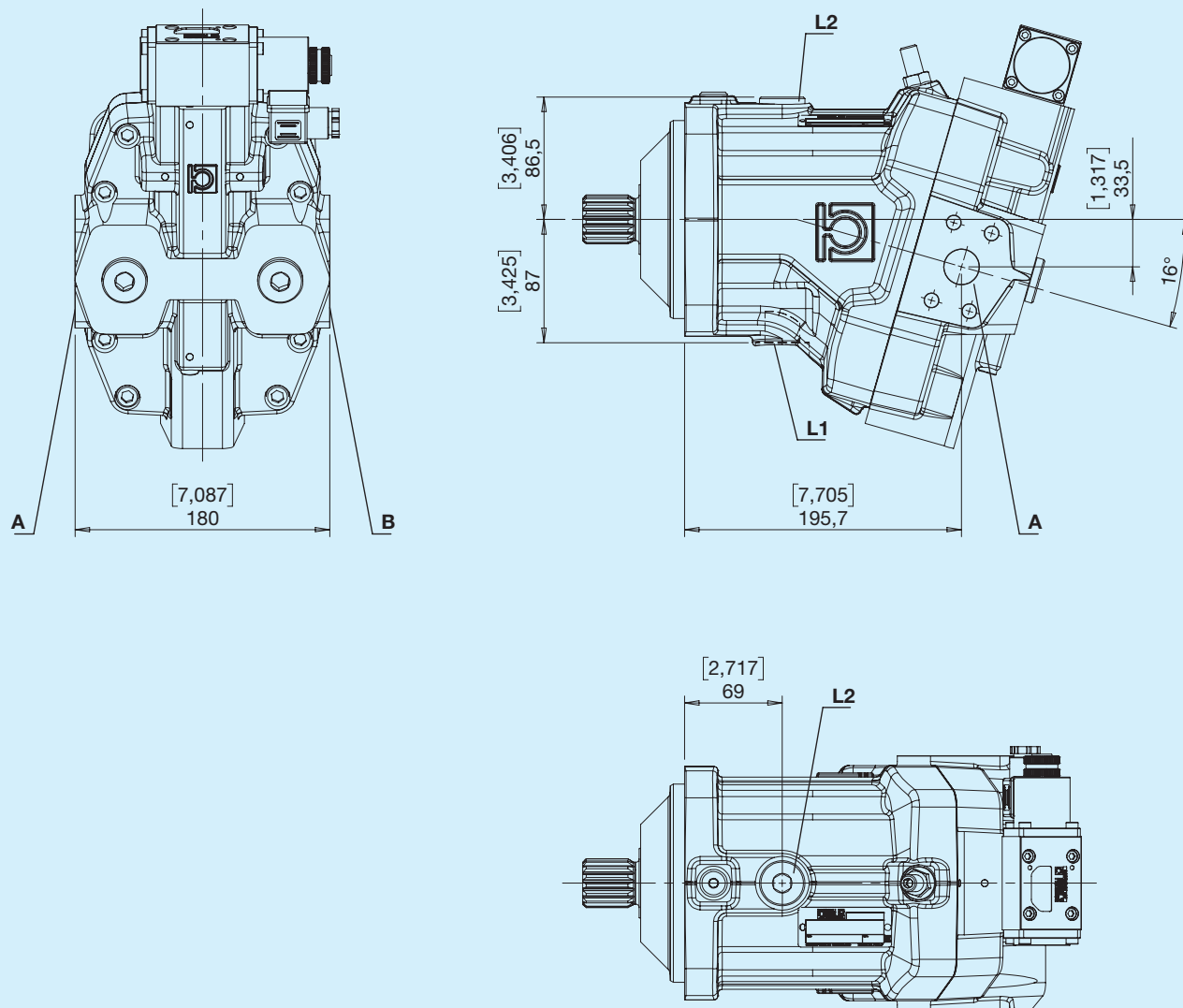
Tipo	Ingresso/Uscita A-B	Drenaggio L1-L2	Pilotaggio a-b-x
G	G7	G6	G2
U	U7	U6	U2
N	N7	G6	G2
M	N7	U6	U2

P Posteriori



A,B - Ingresso/Uscita
L1, L2 - Drenaggio

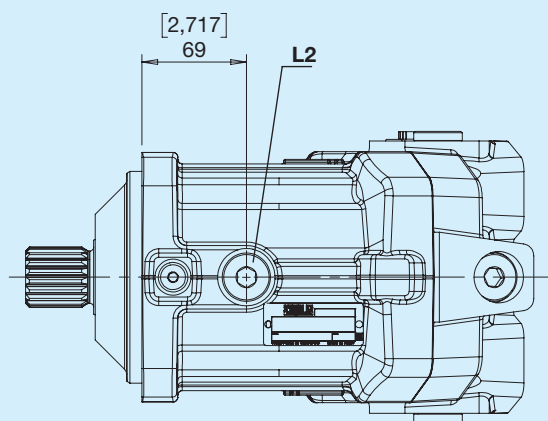
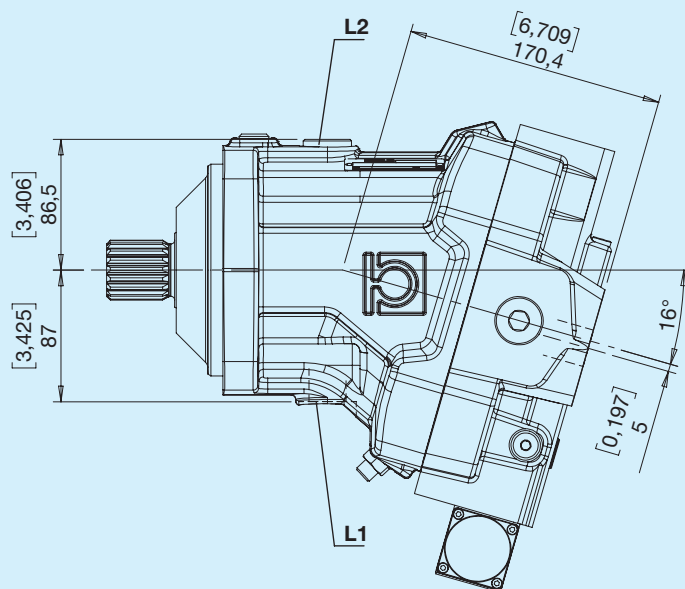
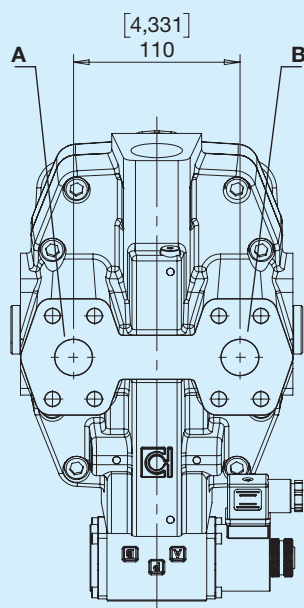
L Lateralì contrapposte



A,B - Ingresso/Uscita

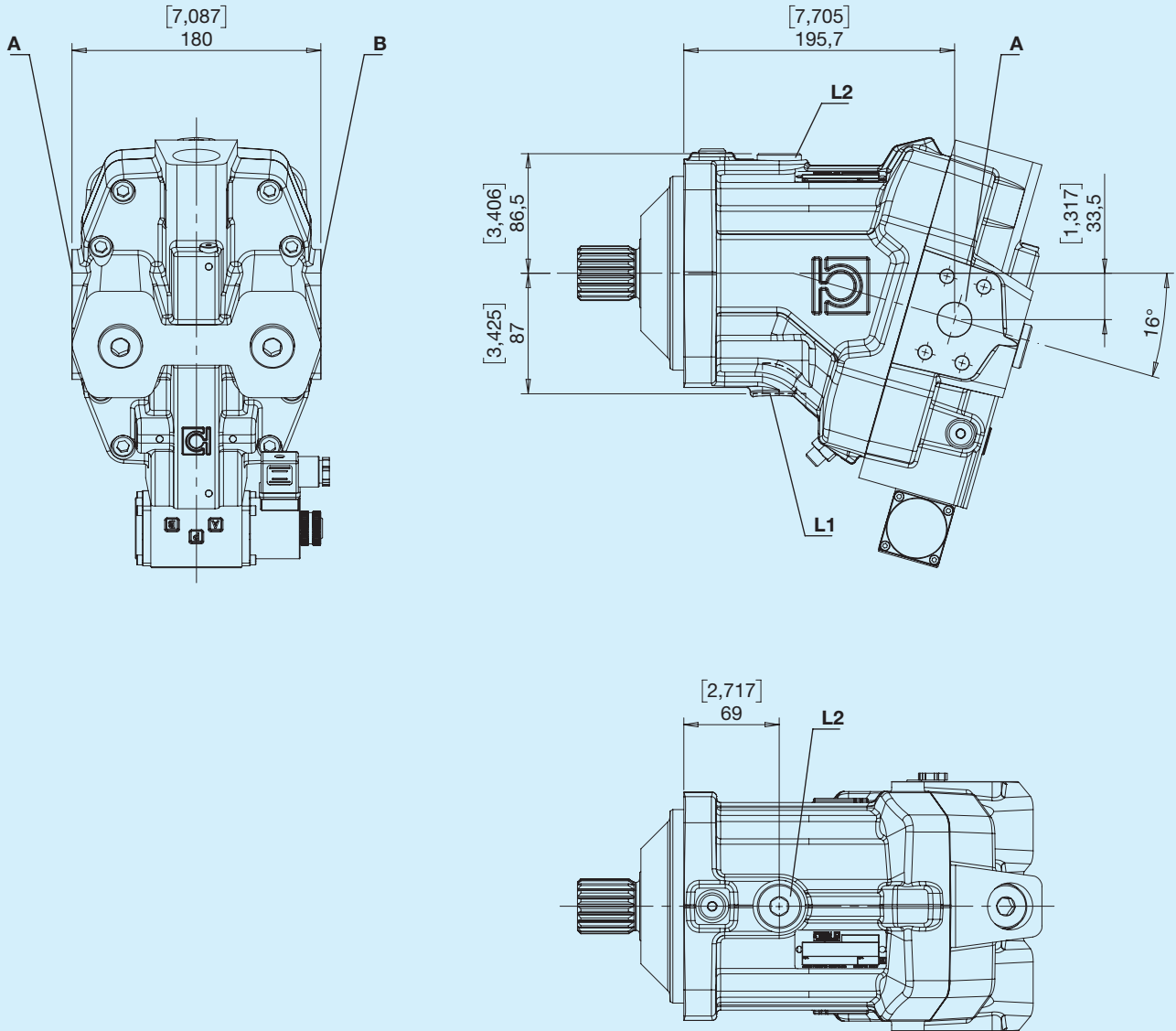
L1, L2 - Drenaggio

Y Posteriori distributore ruotato

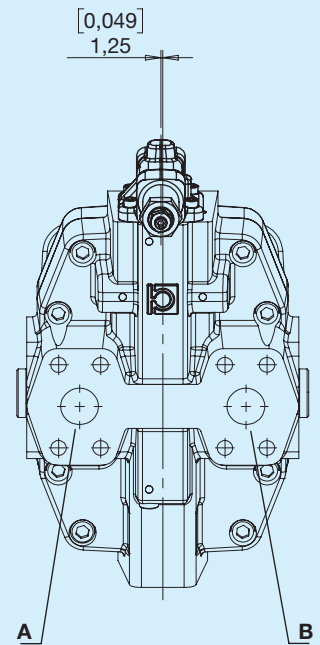
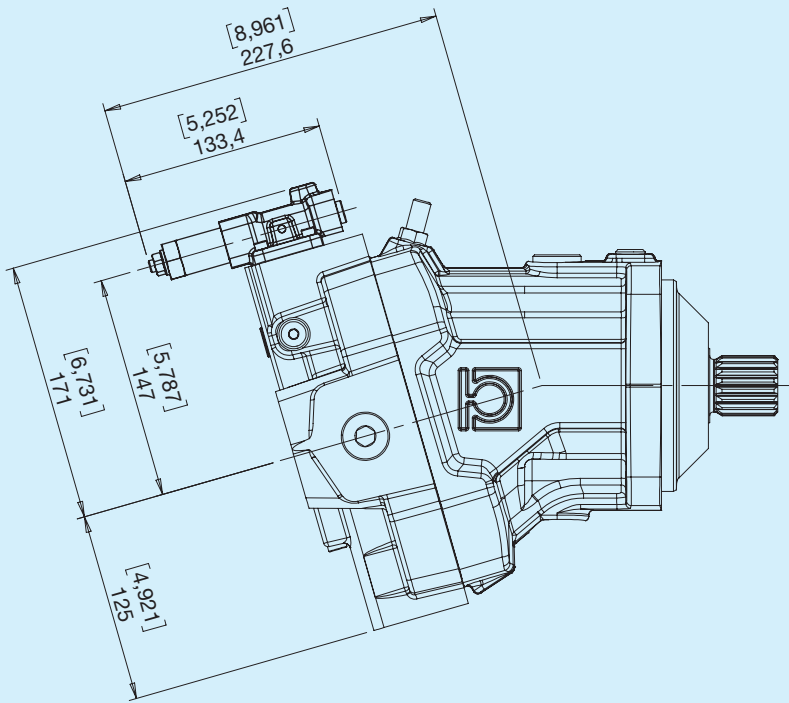


A,B - Ingresso/Uscita
L1, L2 - Drenaggio

J Laterali contrapposte distributore ruotato

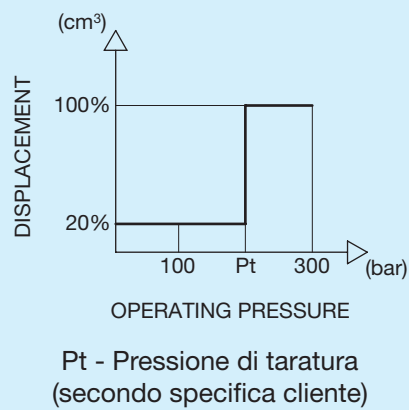


A,B - Ingresso/Uscita
L1, L2 - Drenaggio

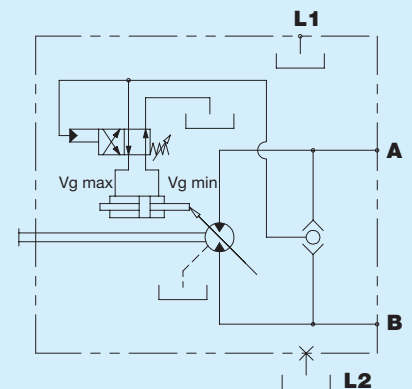
A Idraulico automatico ON/OFF

Ingresso	Rotazione
A	Sinistra
B	Destra

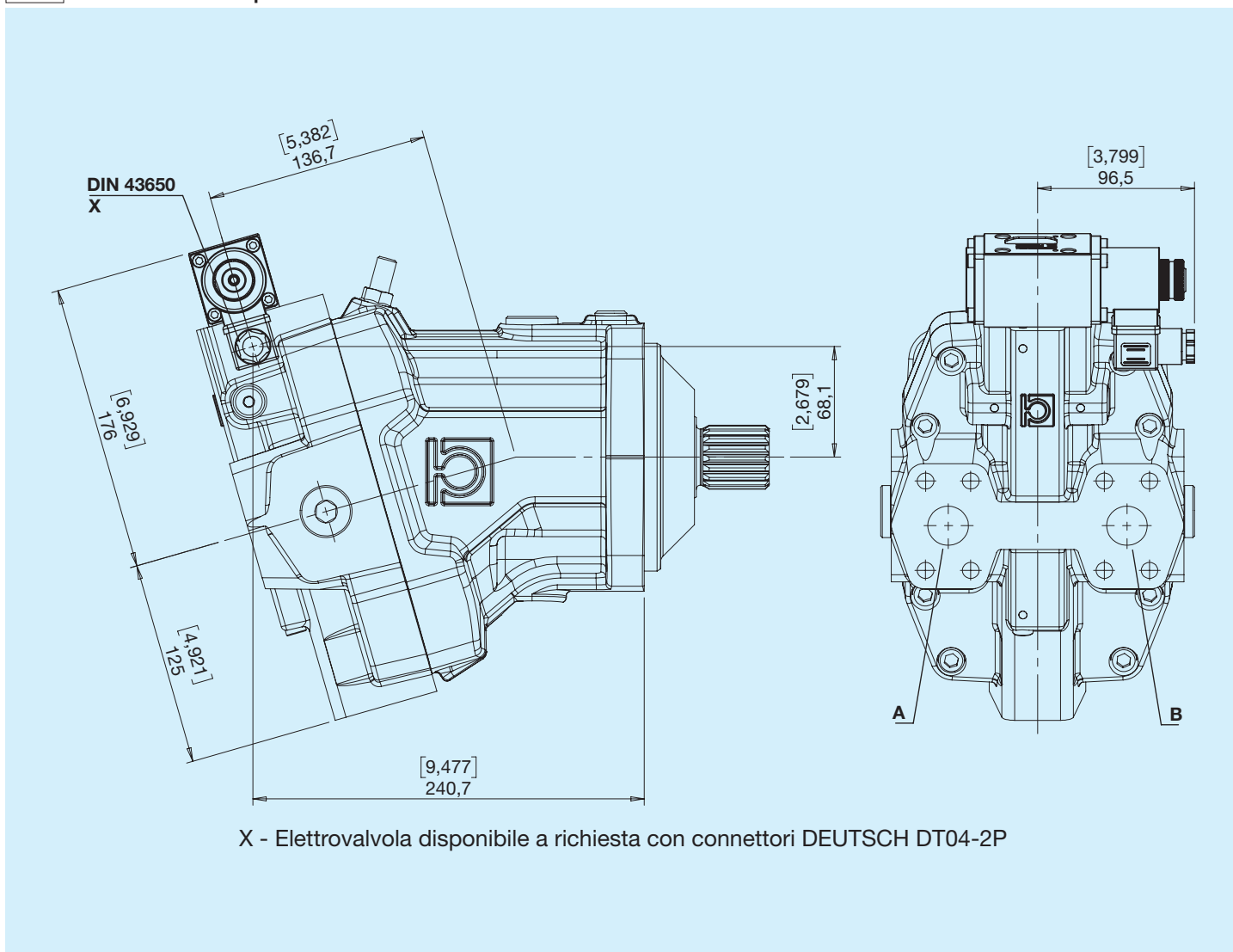
Pilotaggio



Schema idraulico

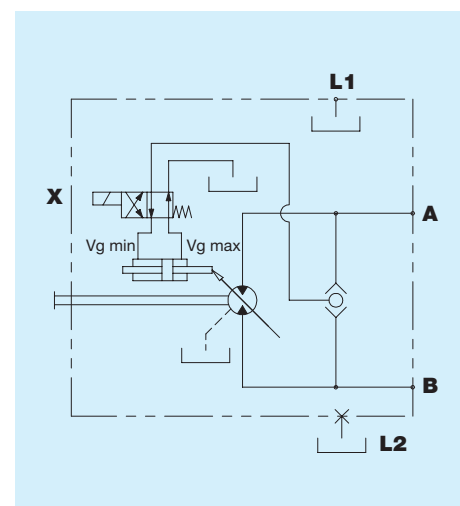


E Elettrico a 2 posizioni 12V

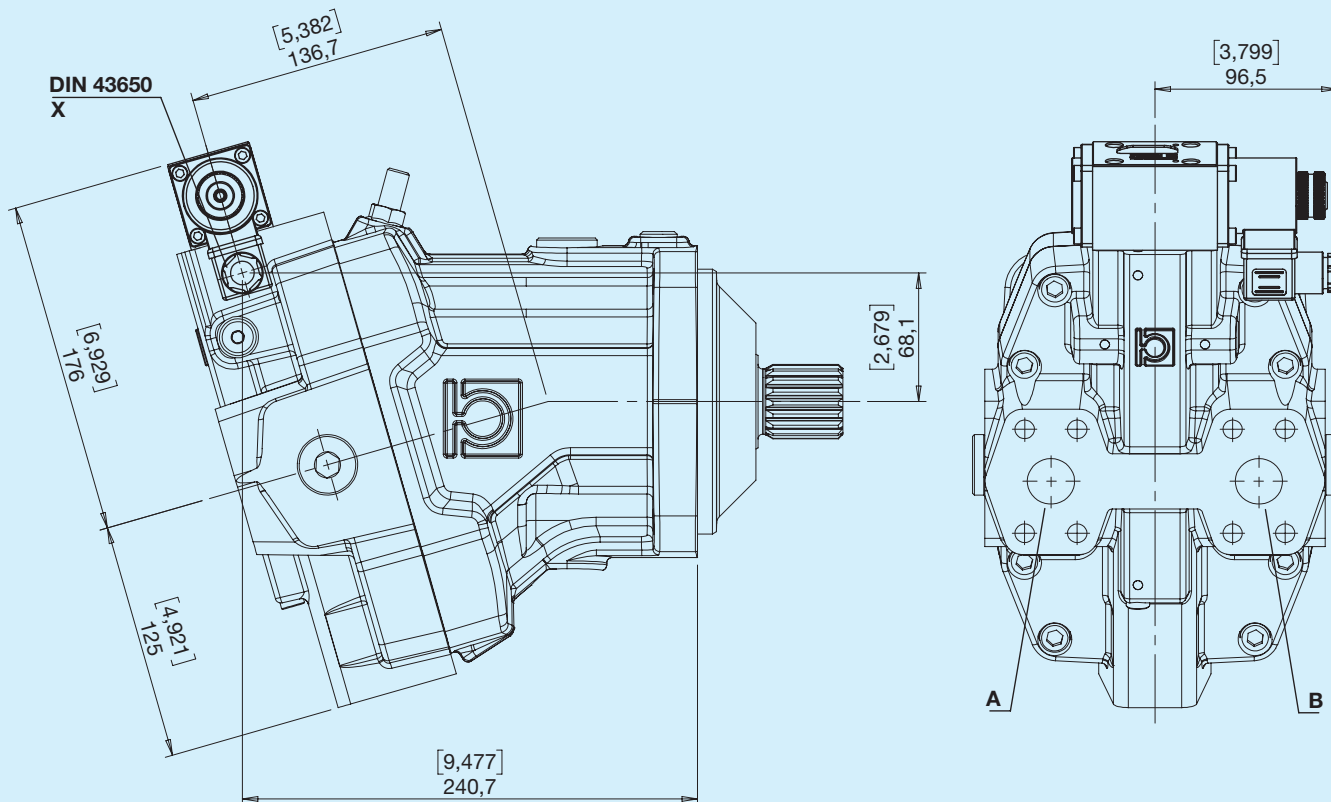


Ingresso	Rotazione
A	Sinistra
B	Destra

Schema idraulico



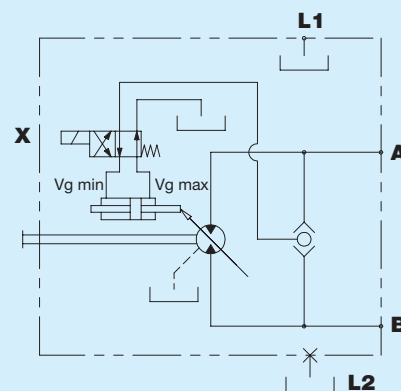
F Elettrico a 2 posizioni 24V



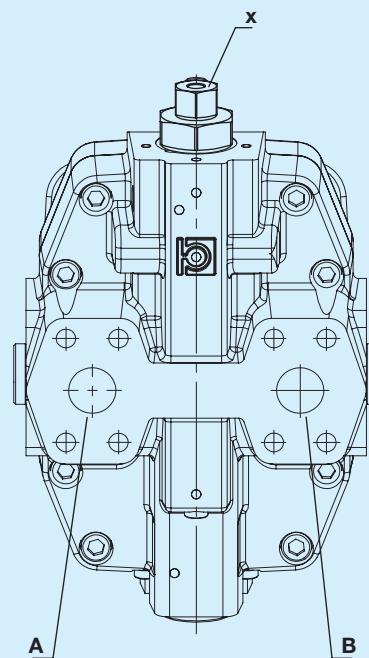
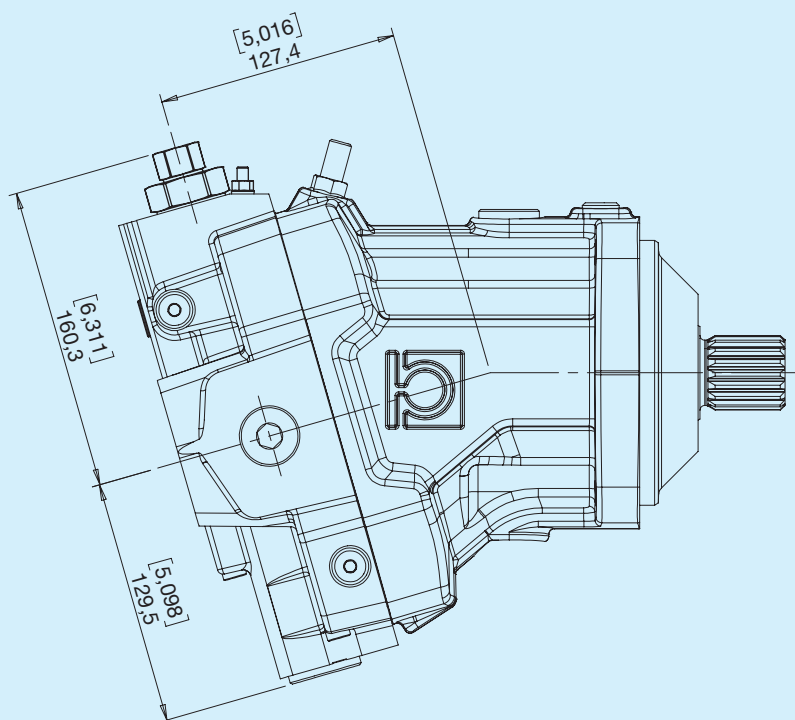
X - Elettrovalvola disponibile a richiesta con connettori DEUTSCH DT04-2P

Ingresso	Rotazione
A	Sinistra
B	Destra

Schema idraulico



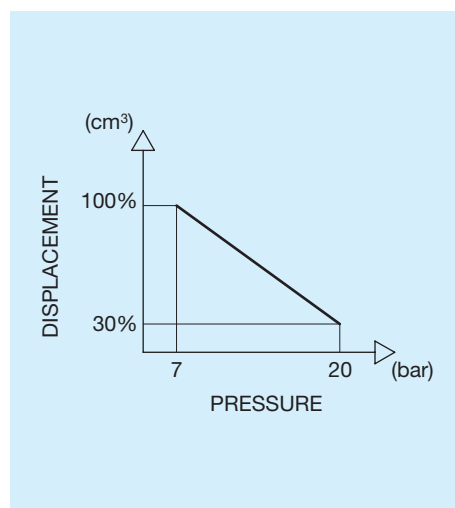
G Idraulico proporzionale



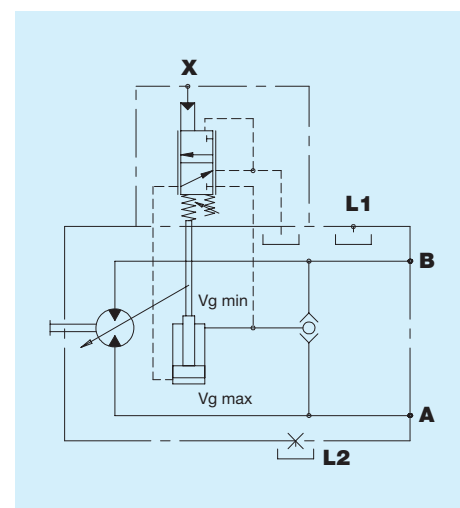
X - Pilotaggio G1/8

Pilotaggio

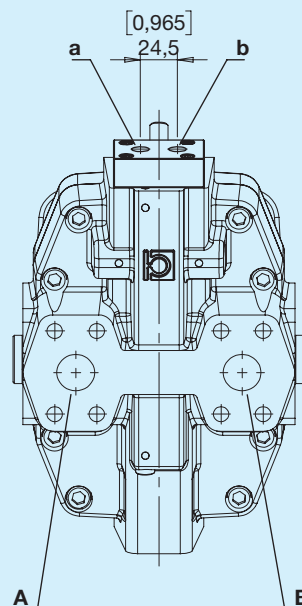
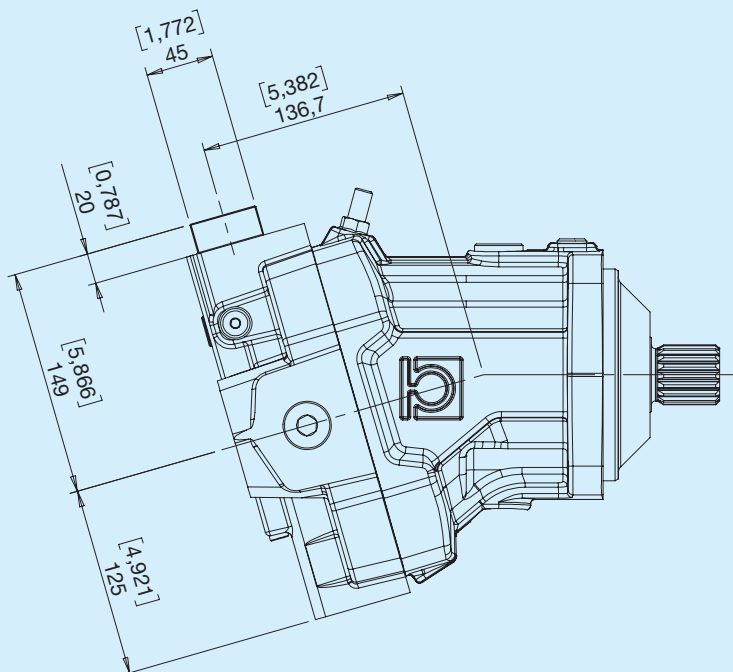
Ingresso	Rotazione
A	Sinistra
B	Destra



Schema idraulico

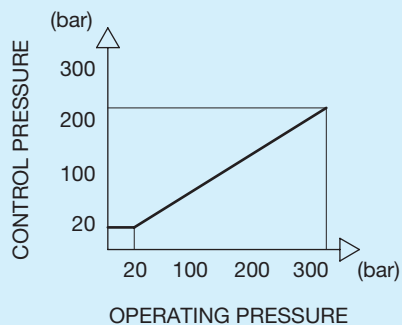


H Idraulico diretto a 2 posizioni

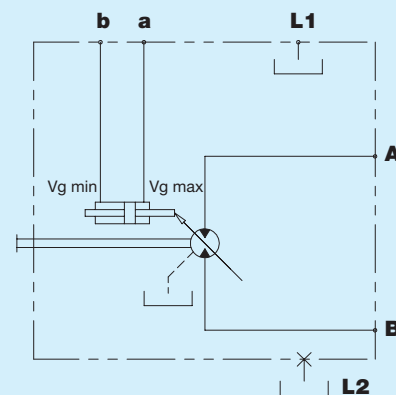


Pilotaggio

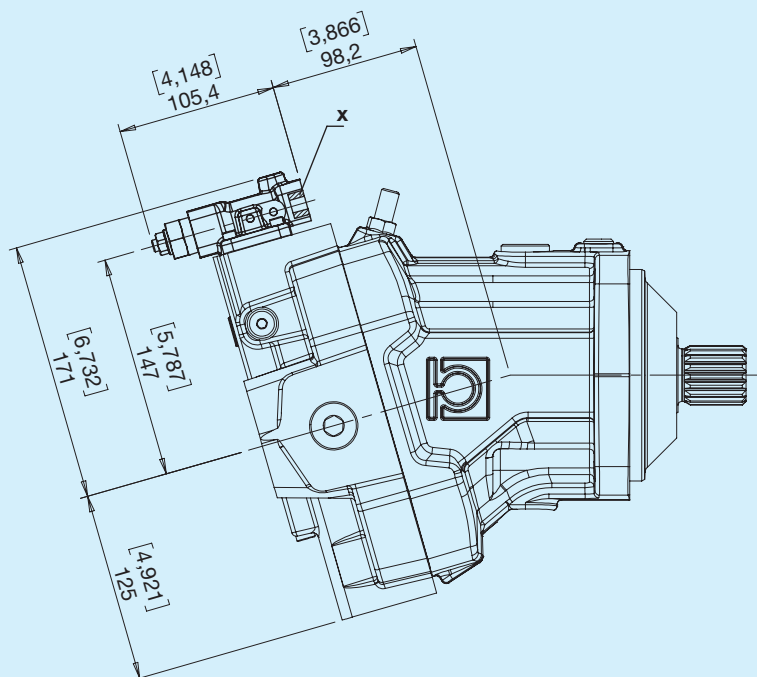
Ingresso	Rotazione
A	Sinistra
B	Destra



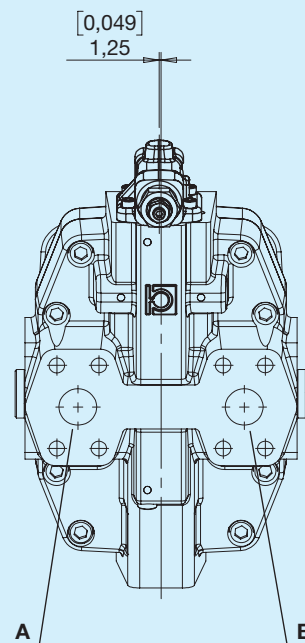
Schema idraulico



K Idraulico a 2 posizioni a bassa pressione

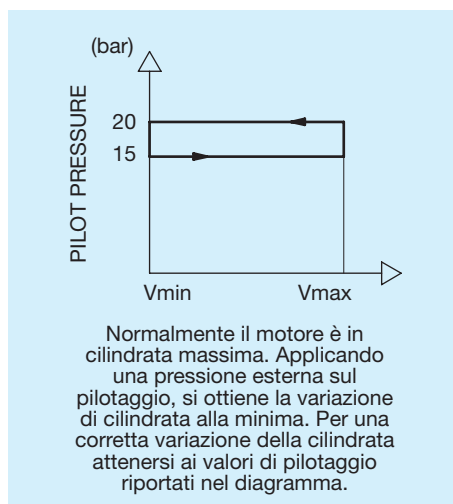


X - Pilotaggio G1/8

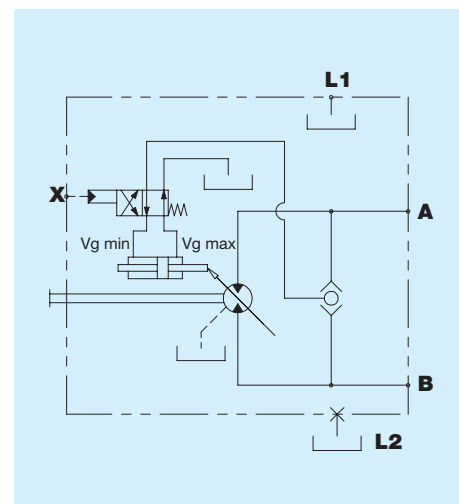


Ingresso	Rotazione
A	Sinistra
B	Destra

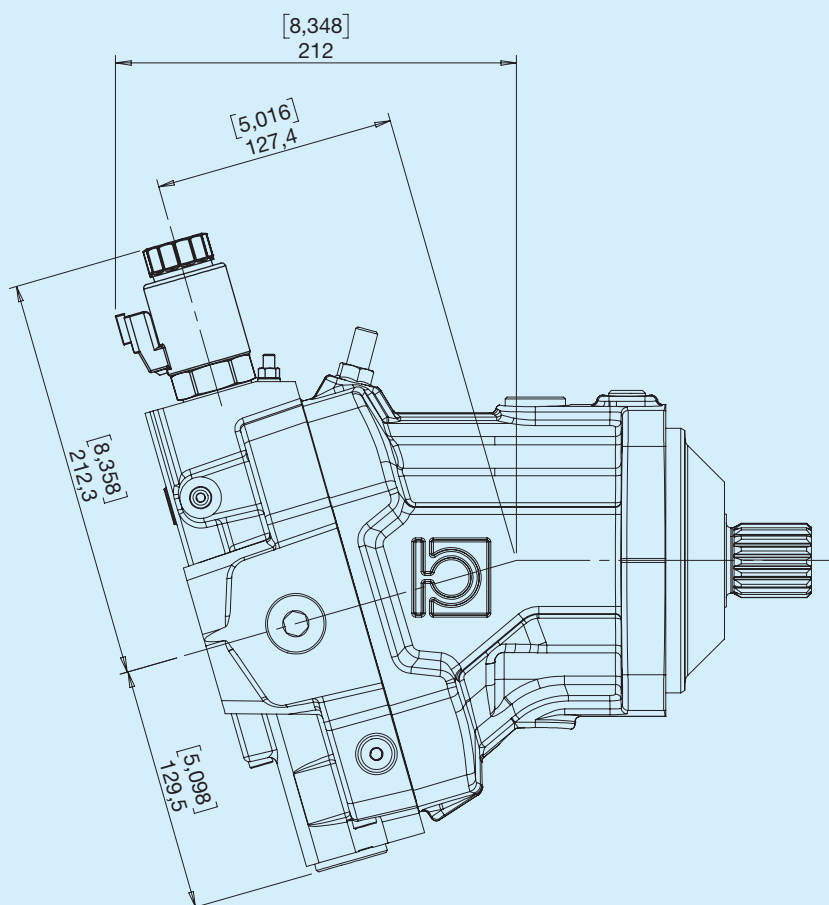
Diagramma



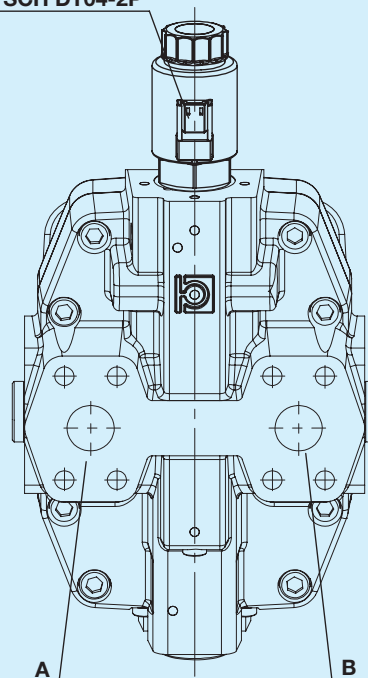
Schema idraulico



O Elettrico proporzionale retroazionato 12V



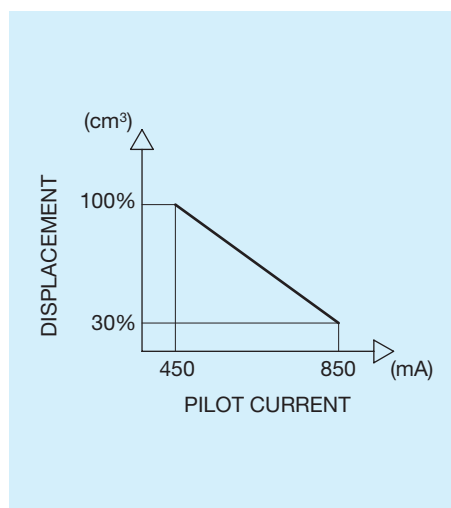
DEUTSCH DT04-2P
X



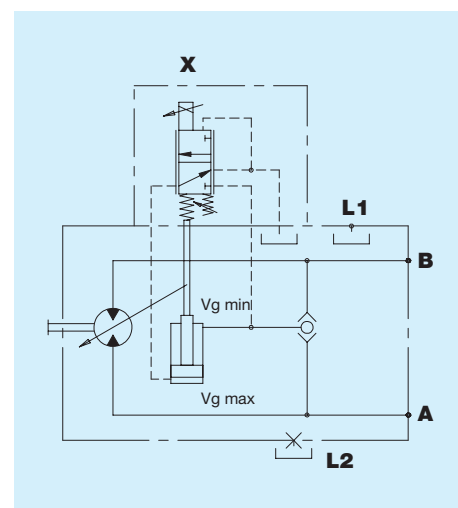
X - Elettrovalvola

Ingresso	Rotazione
A	Sinistra
B	Destra

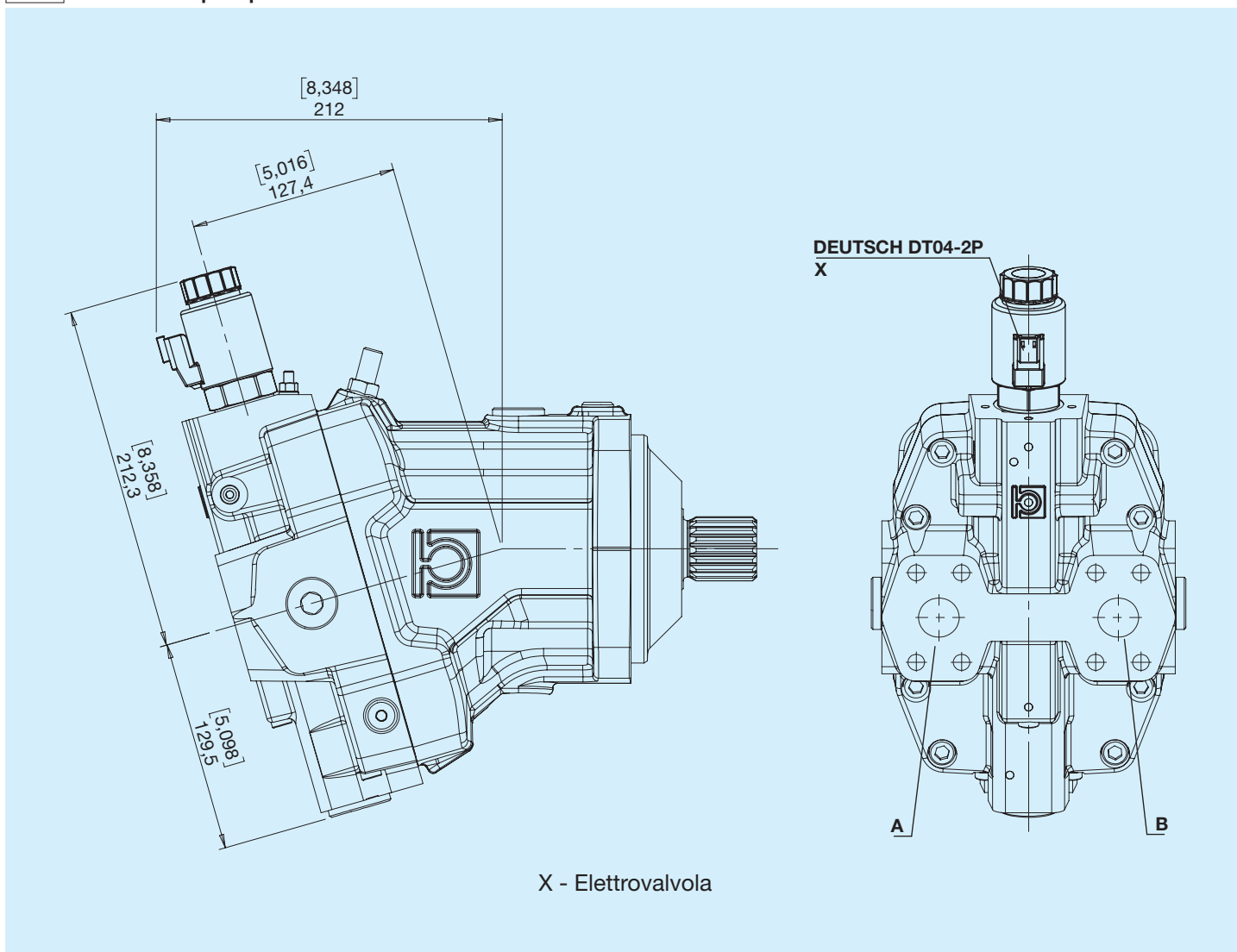
Pilotaggio



Schema idraulico

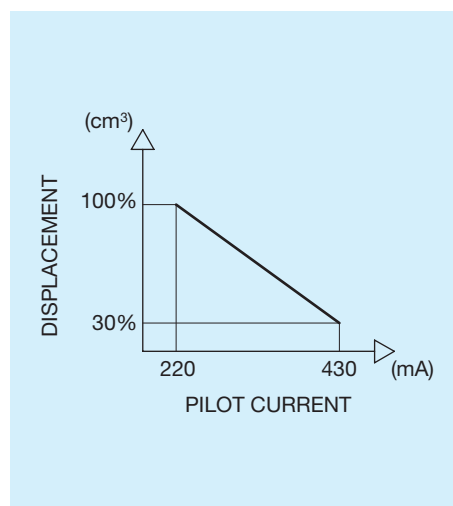


V Elettrico proporzionale retroazionato 24V

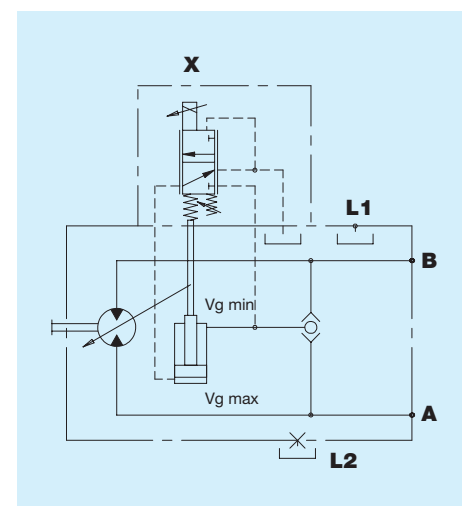


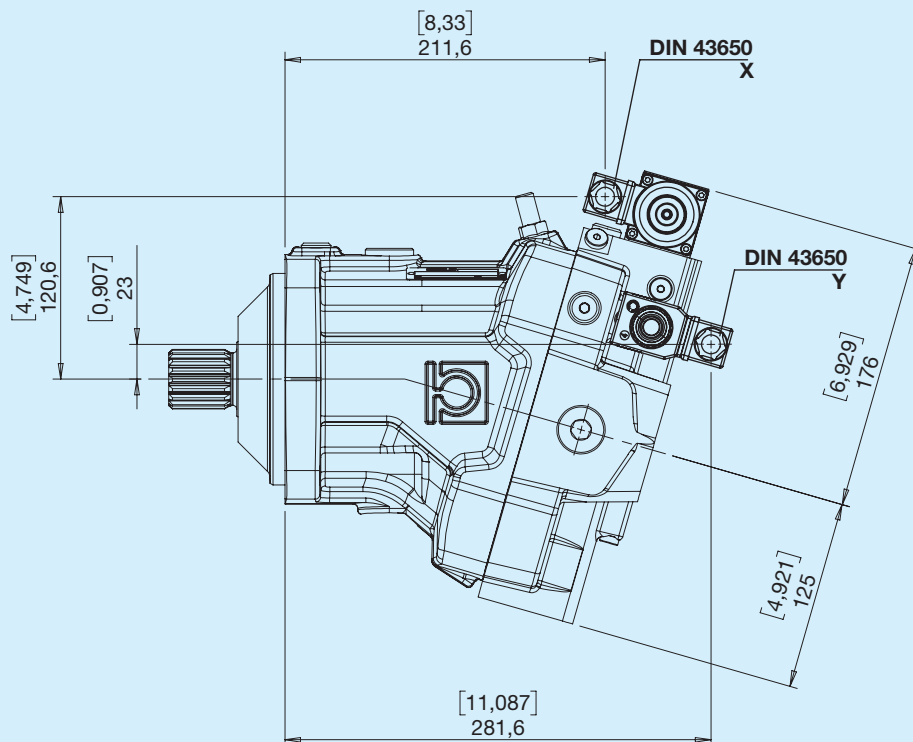
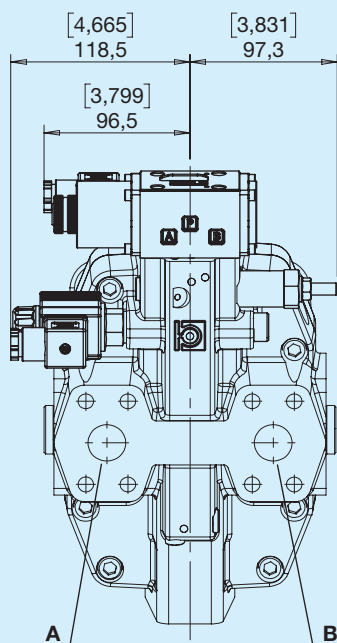
Pilotaggio

Ingresso	Rotazione
A	Sinistra
B	Destra



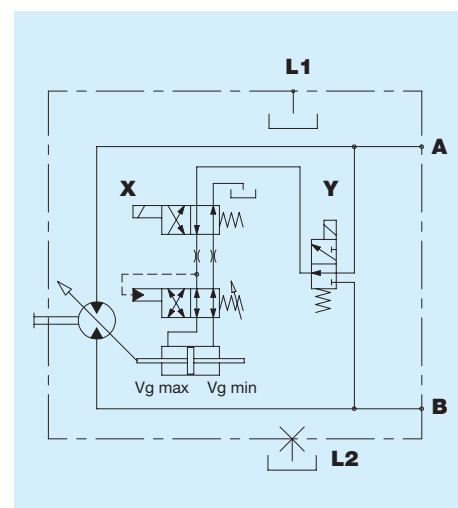
Schema idraulico



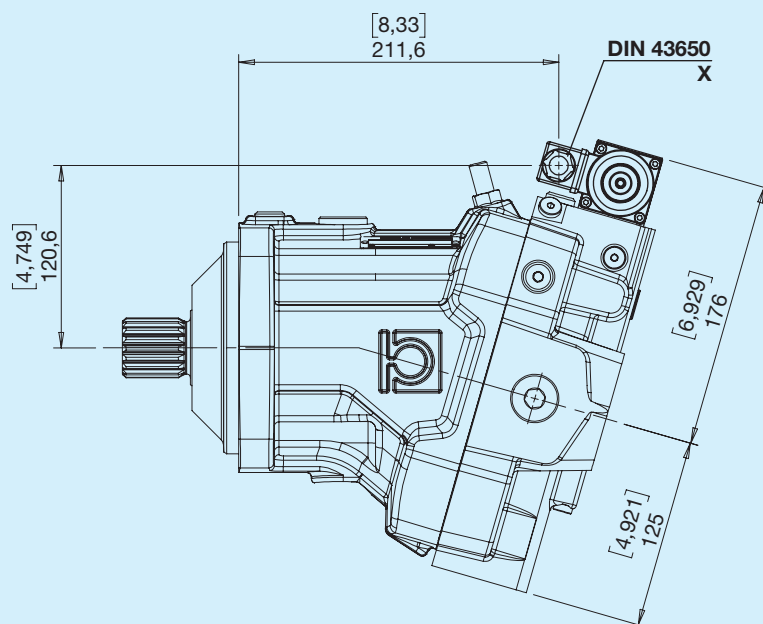
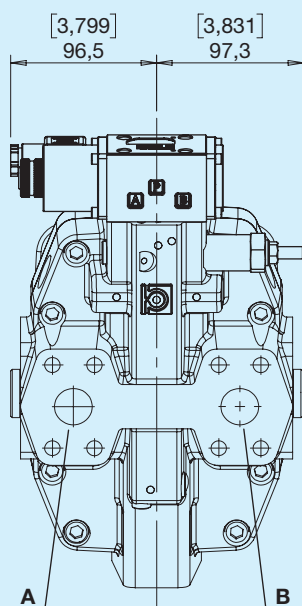
R Elettrico ON/OFF con pressure override e selettore di canale

Ingresso	Rotazione
A	Sinistra
B	Destra

Schema idraulico

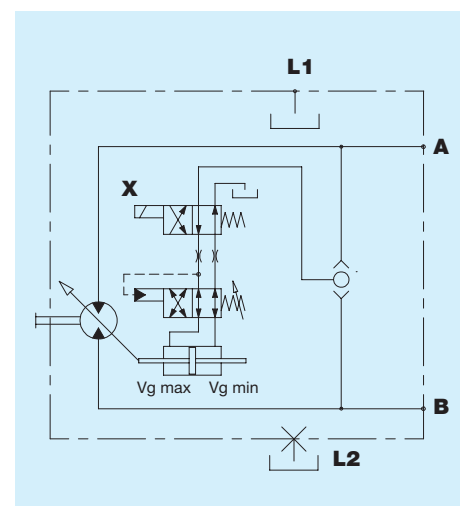


U Elettrico ON/OFF con pressure override

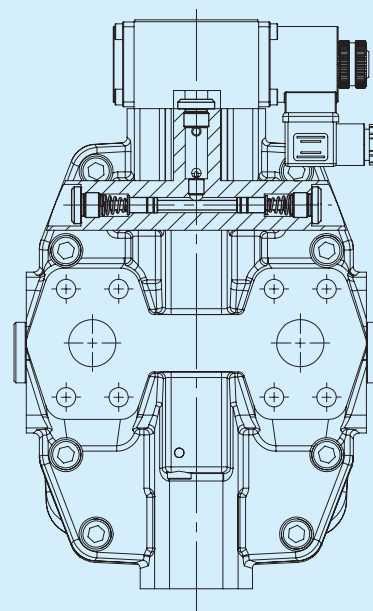
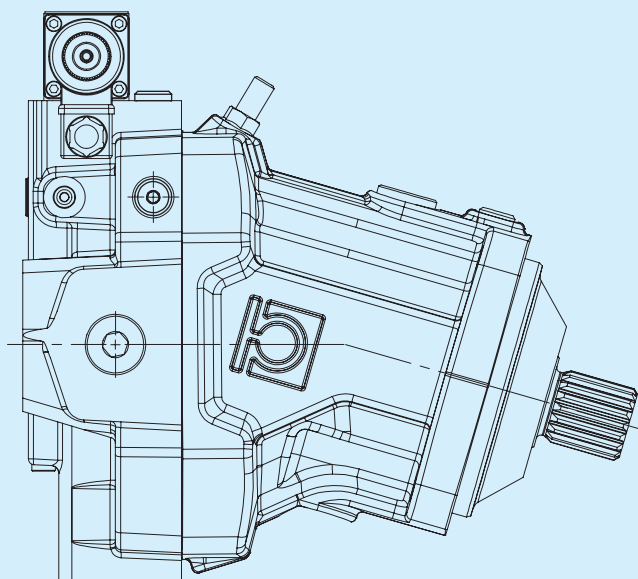


Ingresso	Rotazione
A	Sinistra
B	Destra

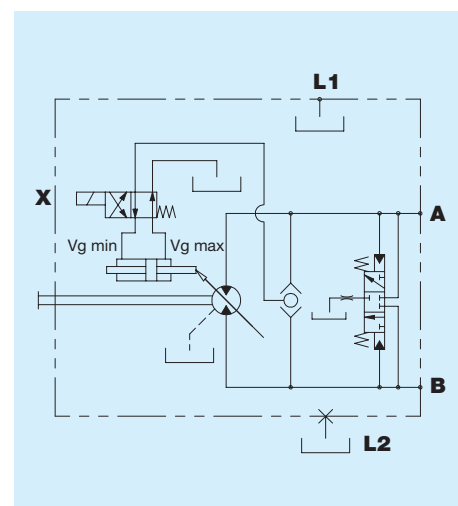
Schema idraulico



V Valvola di flussaggio (5-7 l/min)

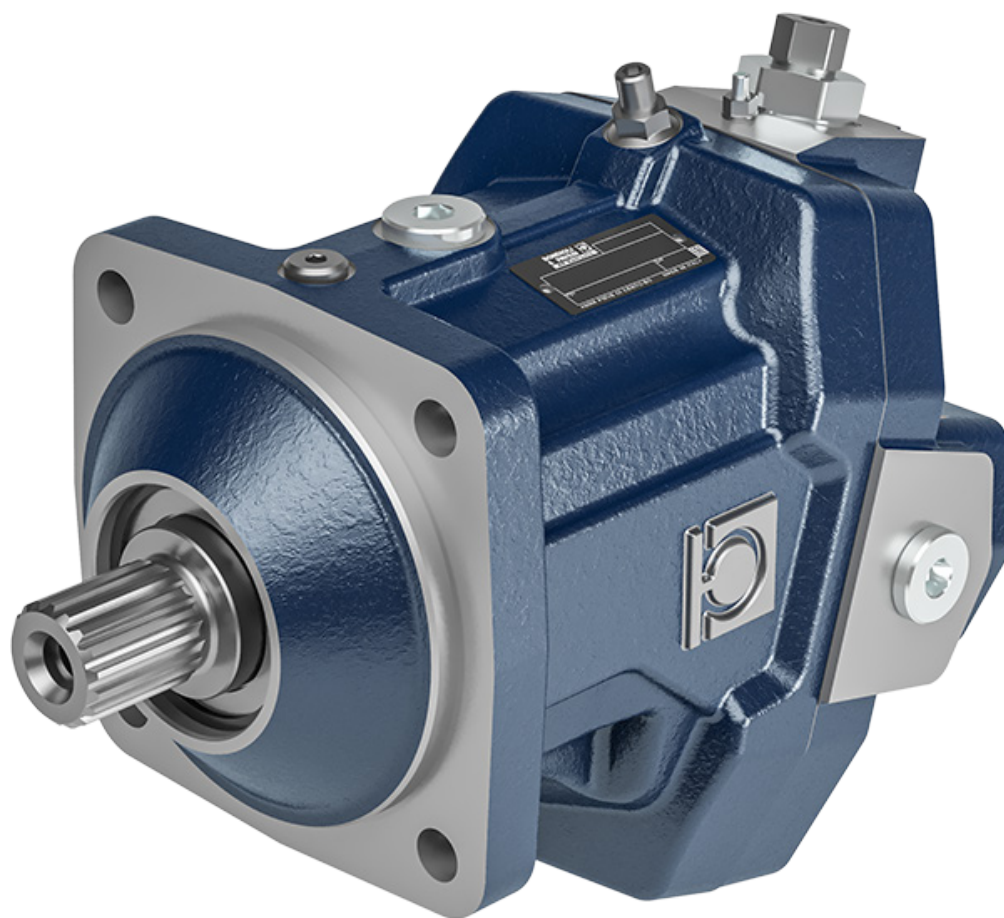


Schema idraulico

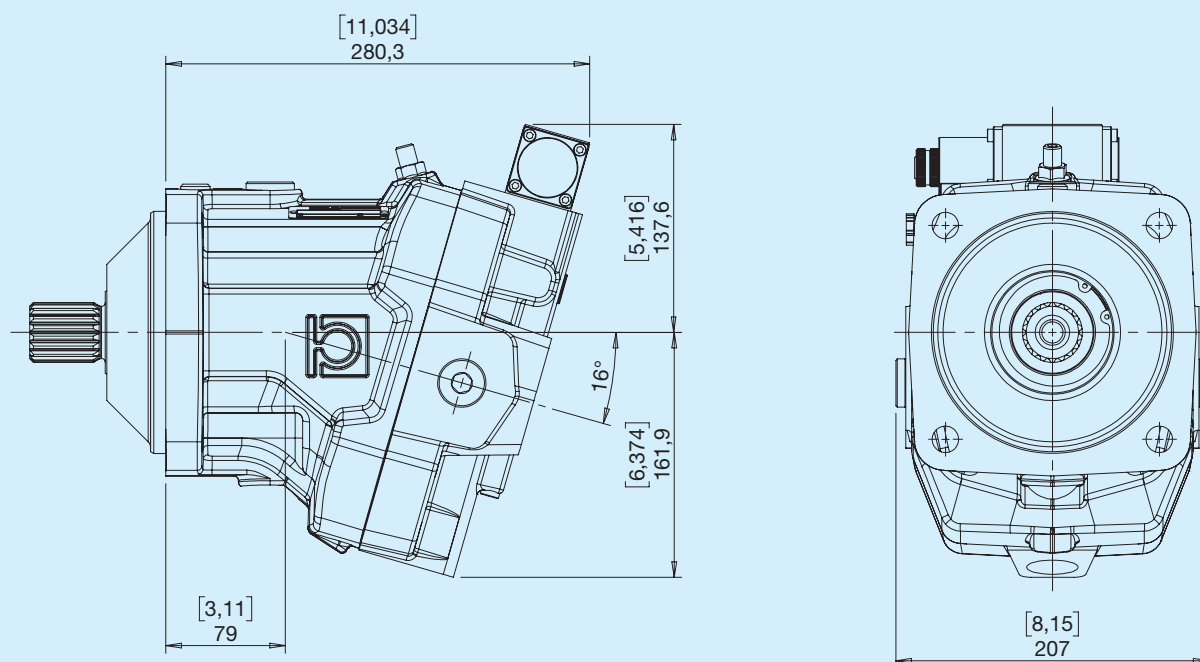


1 2 3			4 5		6	7	8	9	10	11	12 13 14		
HPBA 080-108													
1 2 3			Cilindrata standard										
080			108										
4 5			Cilindrata minima										
...													
6			Flange										
I ISO 4 fori standard			P ISO 2 fori centraggio a cartuccia										
7			Alberi										
B DIN 5480 W40x2x30x18			C DIN 5480 W35x2x30x16										
8			Tipo bocche										
G Gas			U Unf		N Gas-Ingresso/Uscita SAE			M Unf-Ingresso/Uscita SAE					
9			Posizione bocche										
P Posteriori			L Laterali contrapposte		Y Posteriori distributore ruotato (non disponibile per comandi O - V - G)			J Laterali contrapposte distributore ruotato (non disponibile per comandi O - V - G)					
10			Comandi										
A Idraulico automatico ON/OFF			G Idraulico proporzionale		O Elettrico proporzionale retroazionato 12V			U Elettrico ON/OFF con pressione override					
E Elettrico a 2 posizioni 12V			H Idraulico diretto a 2 posizioni		V Elettrico proporzionale retroazionato 24V								
F Elettrico a 2 posizioni 24V			K Idraulico a 2 posizioni a bassa pressione		R Elettrico ON/OFF con pressione override e selettore di canale								
11			Accessori										
0 Nessuna opzione			V Valvola di flussaggio										
12 13 14			Esecuzioni speciali										
...													

Motori a cilindrata variabile HPBA110-130

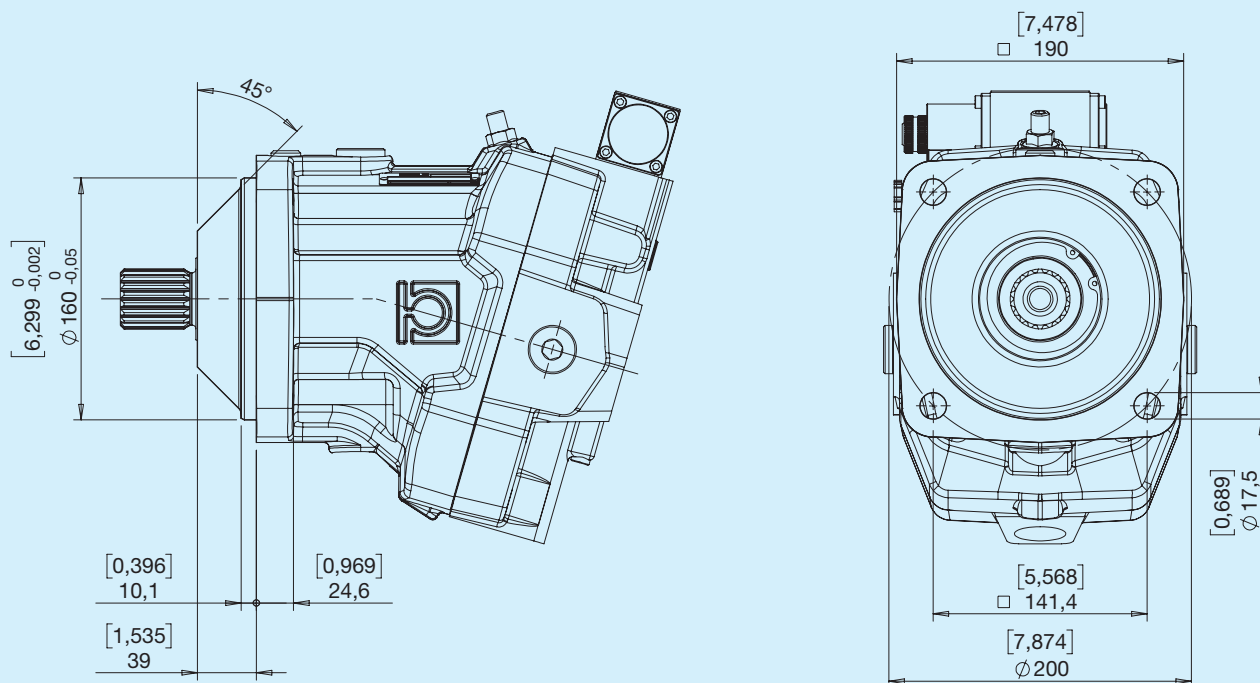


Prima di iniziare l'utilizzo leggere attentamente il documento ISTRUZIONI GENERALI D'IMPIEGO POMPE E MOTORI A PISTONI ASSIALI PER CIRCUITO CHIUSO.

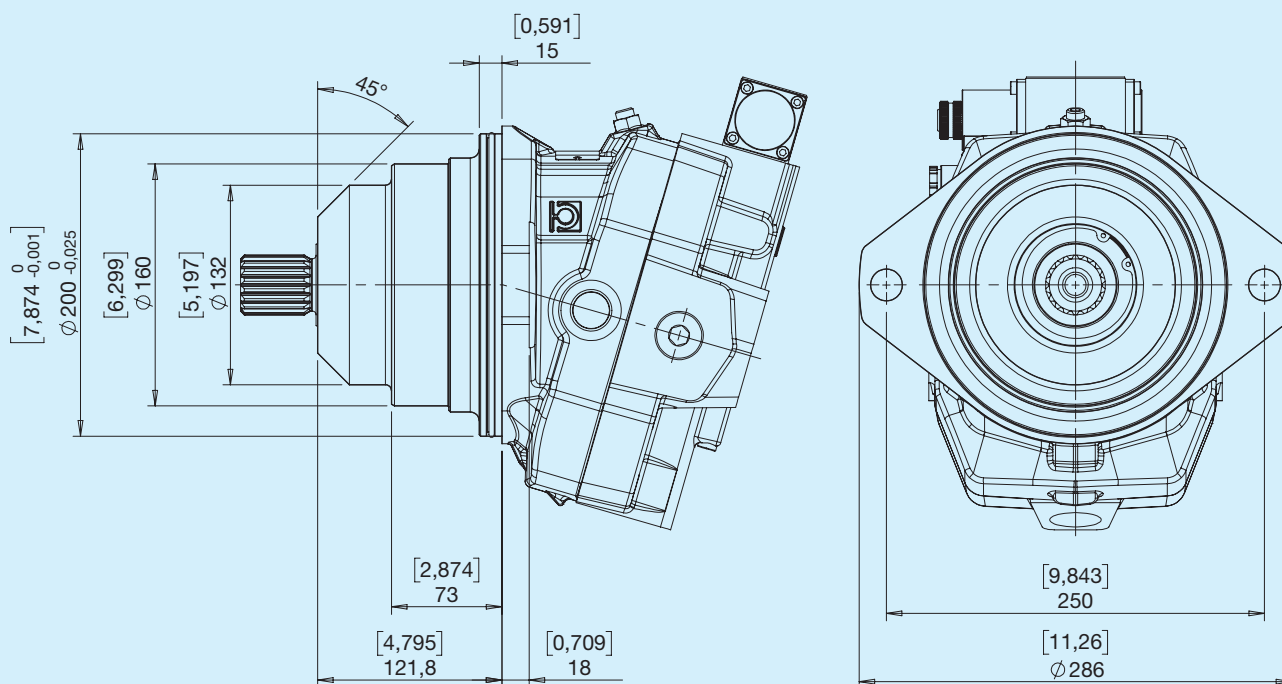


HPBA	Cilindrata teorica		Oscillante	Pressione Continua		Pressione intermittente		Pressione picco		Velocità di rotazione			Massa	
	cm ³	in ³		bar	psi	bar	psi	bar	psi	MAX (max V) min ⁻¹	MAX (min V) min ⁻¹	MIN min ⁻¹	kg	lbs
110	110	6,65	26	350	5075	400	5800	450	6525	2900	4500	500	45	99
130	130	7,93	25	350	5075	400	5800	450	6525	2900	4500	500	51	112

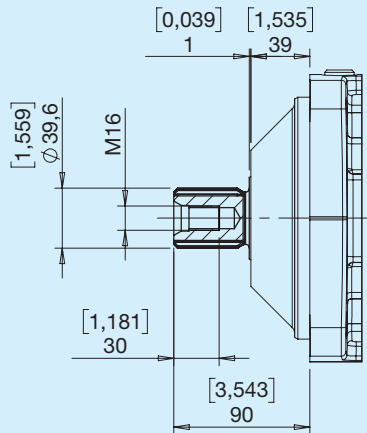
I ISO 4 fori standard



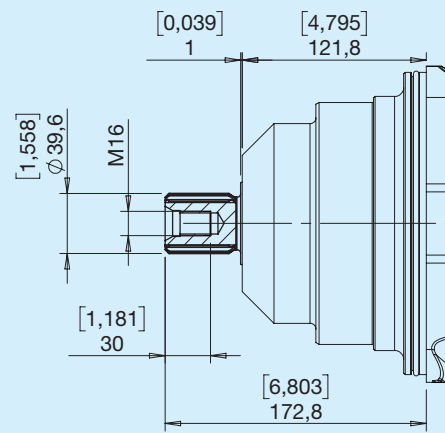
P ISO 2 fori centraggio a cartuccia



B DIN 5480 W40x2x30x18

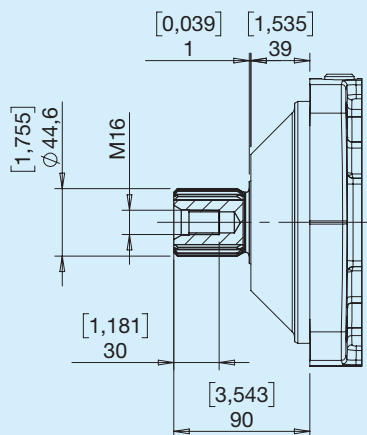


Coppia Max 1310 Nm

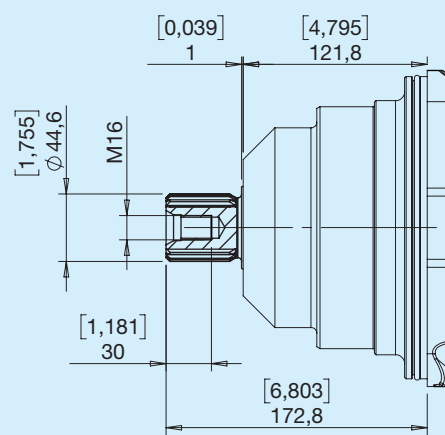


Coppia Max 1310 Nm

D DIN 5480 W45x2x30x21

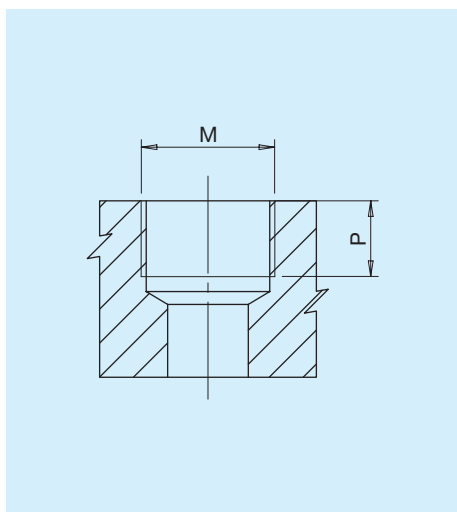


Coppia Max 1980 Nm



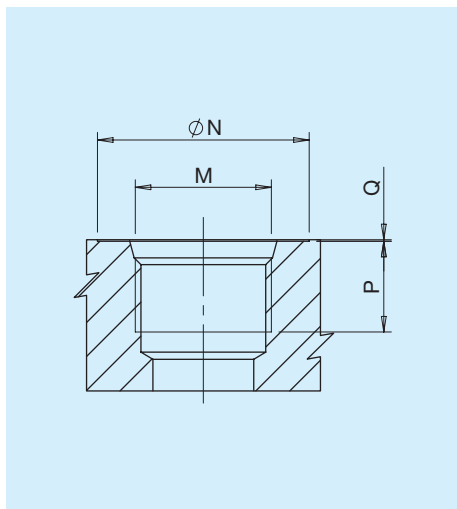
Coppia Max 1980 Nm

Tipo G



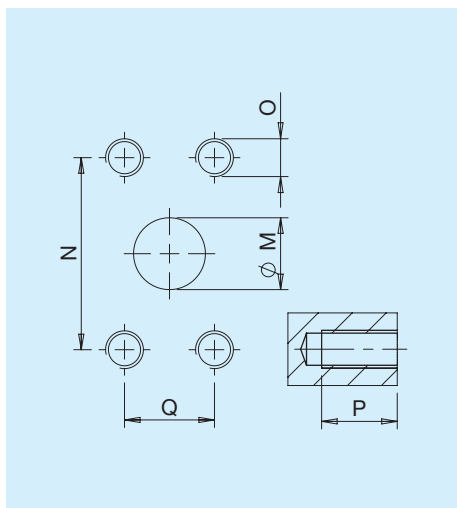
Tipo	M		P	
		Nm	mm	in
G2	Port ISO 1179-1 - G 1/4	17	8	0,31
G6	Port ISO 1179-1 - G 3/4	90	19	0,75
G7	Port ISO 1179-1 - G 1	160	19	0,75

Tipo U



Tipo	Dim.	N		P		Q		M	Nm
		mm	in	mm	in	mm	in		
U2	1/4'	20	0,79	12	0,47	0,3	0,01	Port ISO 11926-1-7/16-20	17
U6	3/4'	41	1,61	20	0,79	0,3	0,01	Port ISO 11926-1-1 1/16-12	90
U7	1'	49	1,93	18	0,70	0,3	0,01	Port ISO 11926-1-1 5/16-12	160

Tipo N

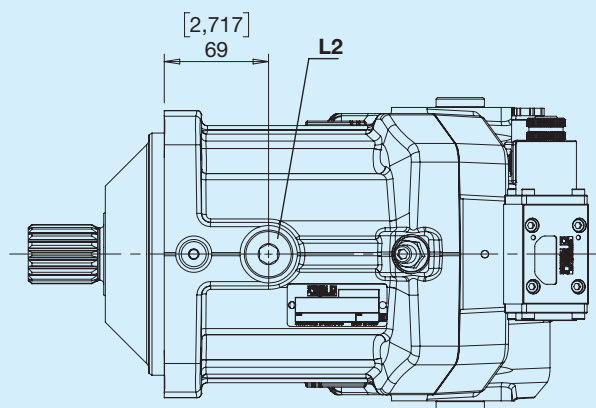
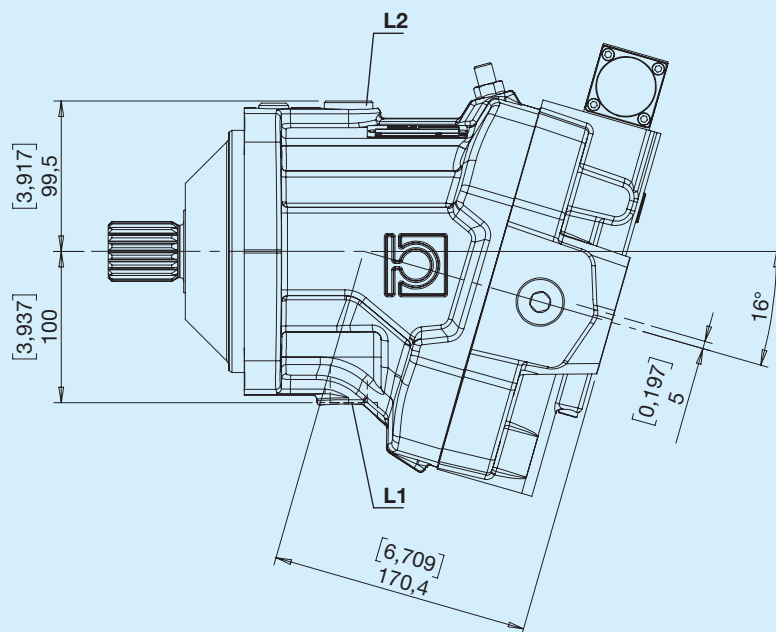
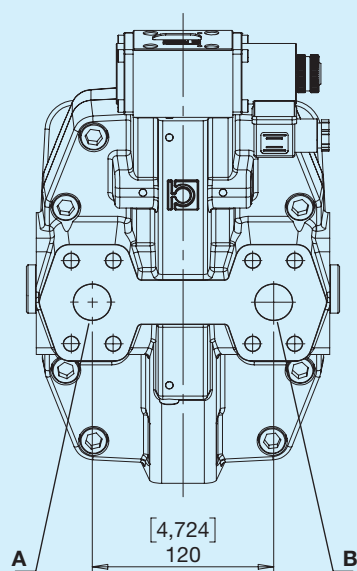


Tipo	M		N		Q		P		O	Nm
	mm	in	mm	in	mm	in	mm	in		
N7	25	1	57,15	2,25	27,76	1,09	20	0,79	M12	70

Combinazioni

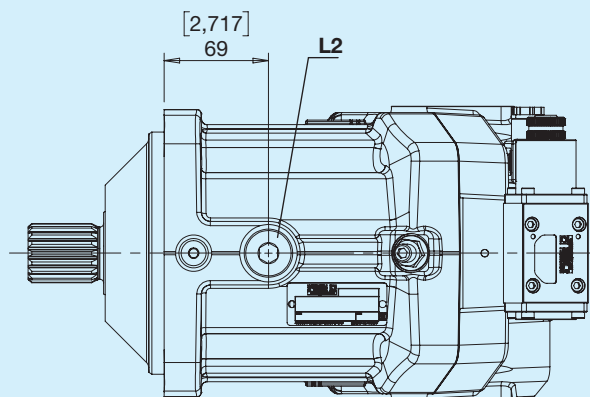
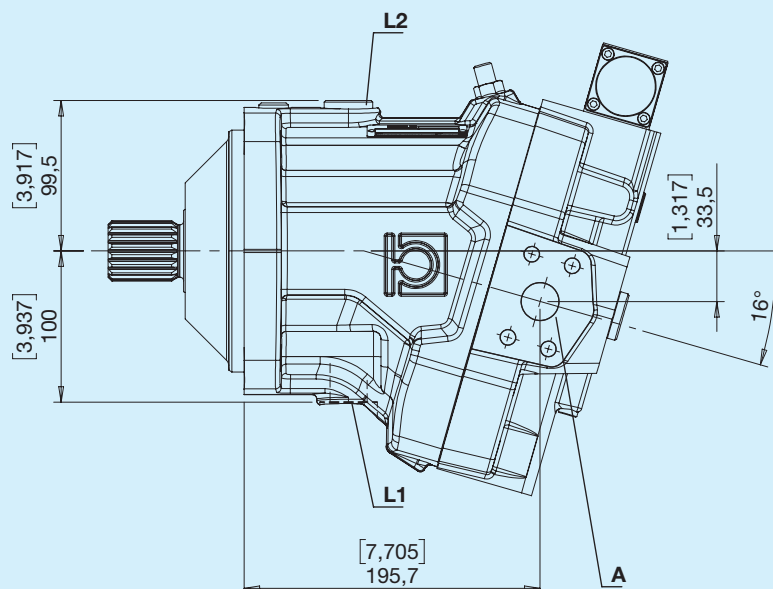
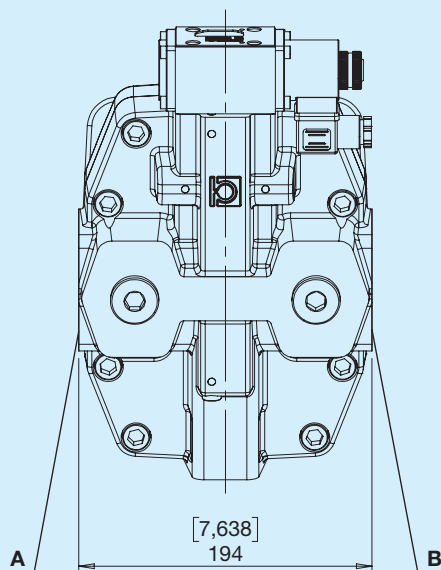
Tipo	Ingresso/Uscita A-B	Drenaggio L1-L2	Pilotaggio a-b-x
G	G7	G6	G2
U	U7	U6	U2
N	N7	G6	G2
M	N7	U6	U2

P Posteriori



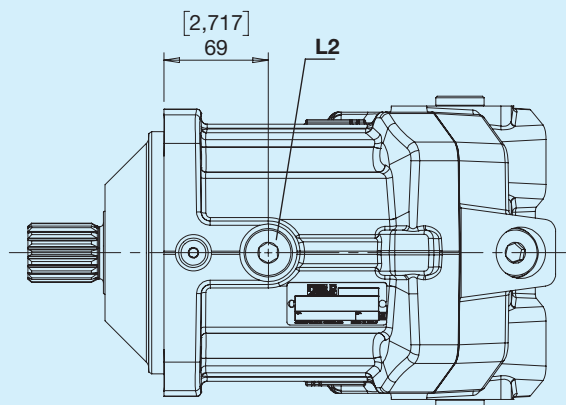
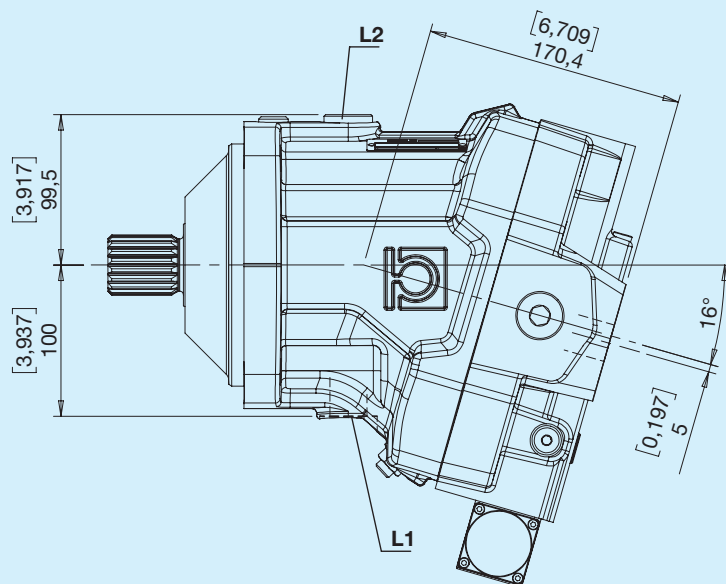
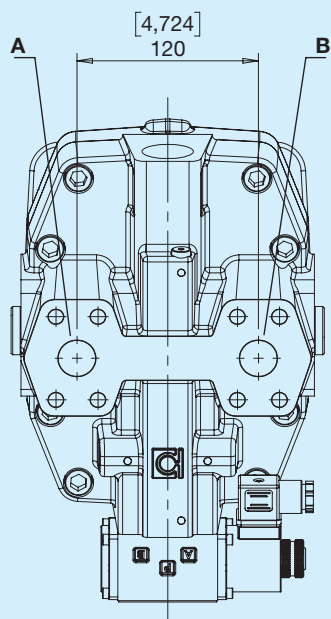
A,B - Ingresso/Uscita
L1, L2 - Drenaggio

L Laterali contrapposte



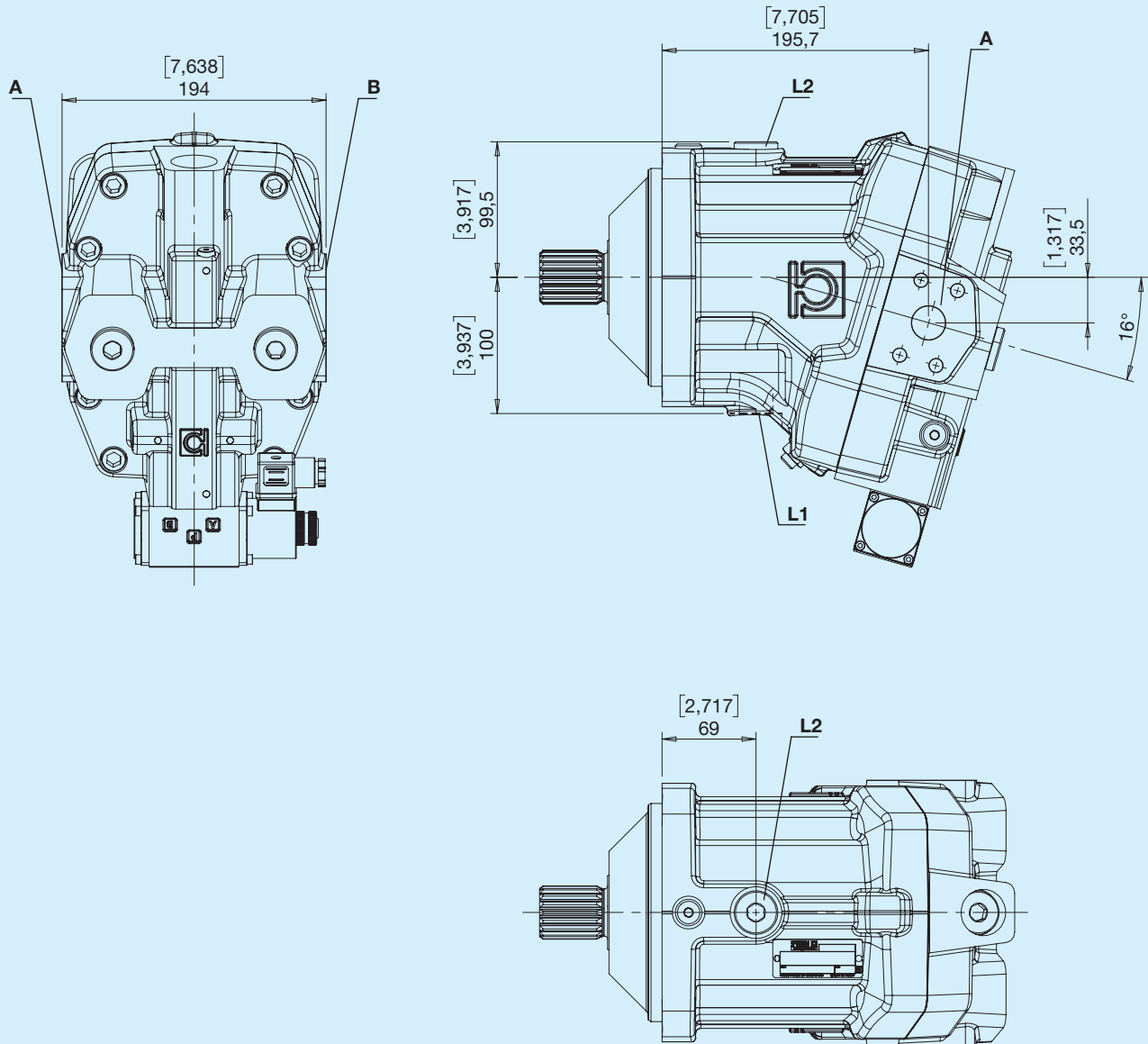
A,B - Ingresso/Uscita
L1, L2 - Drenaggio

Y Posteriori distributore ruotato



A,B - Ingresso/Uscita
L1, L2 - Drenaggio

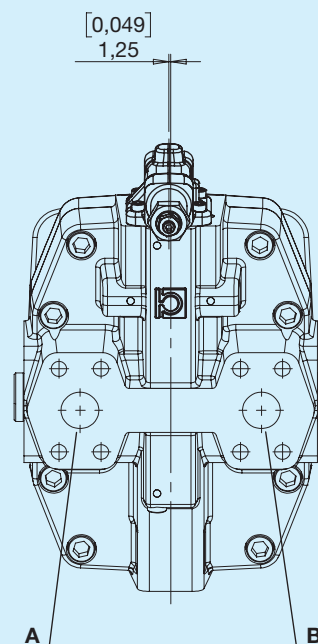
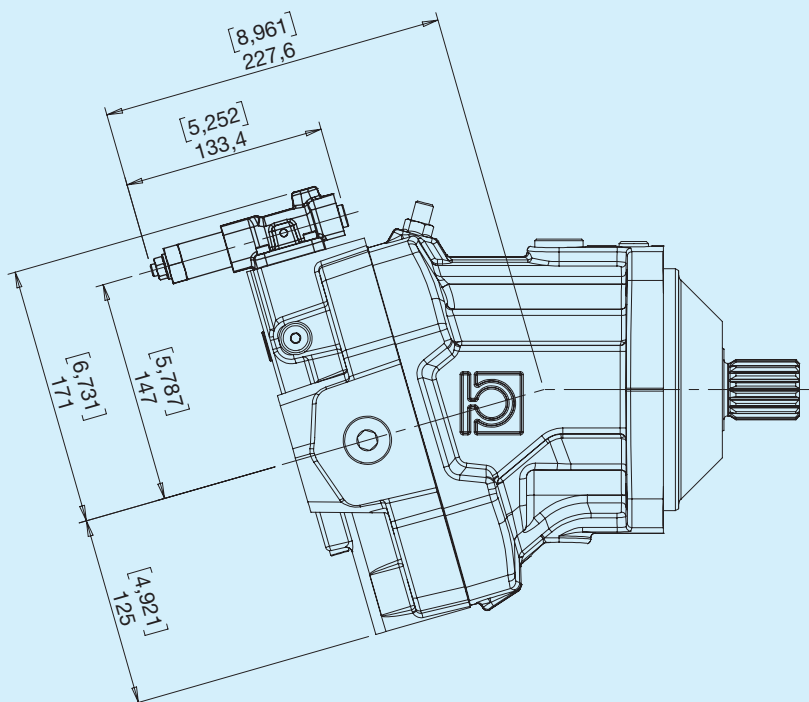
J Lateralì contrapposte distributore ruotato



A,B - Ingresso/Uscita

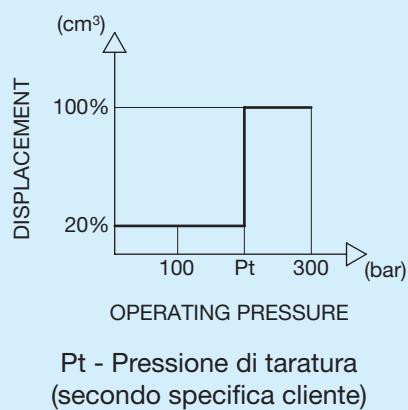
L1, L2 - Drenaggio

A Idraulico automatico ON/OFF

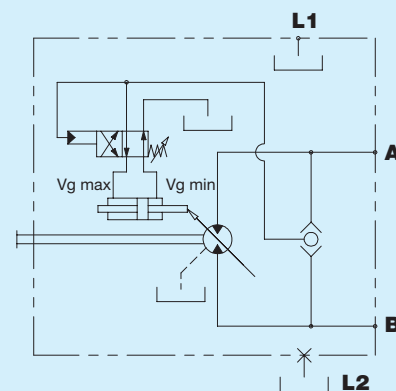


Ingresso	Rotazione
A	Sinistra
B	Destra

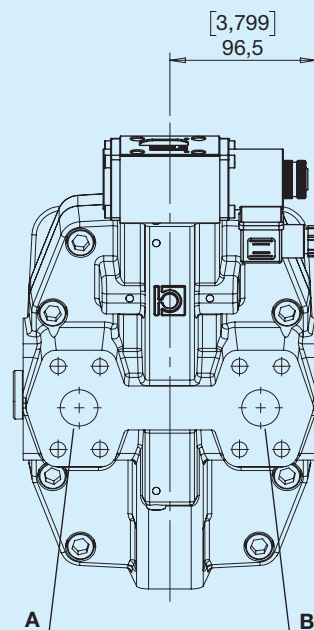
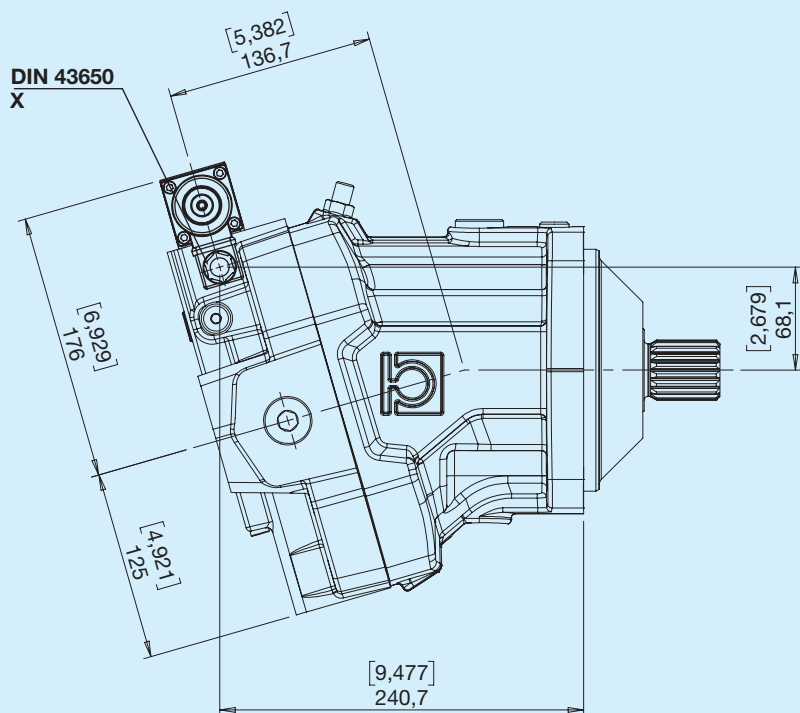
Pilotaggio



Schema idraulico



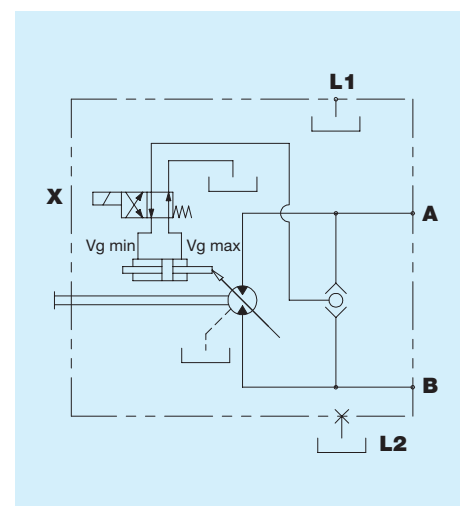
E Elettrico a 2 posizioni 12V



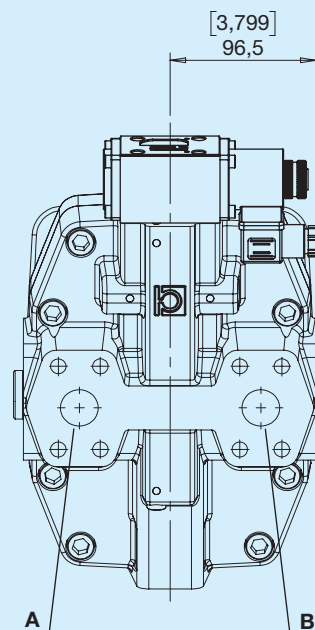
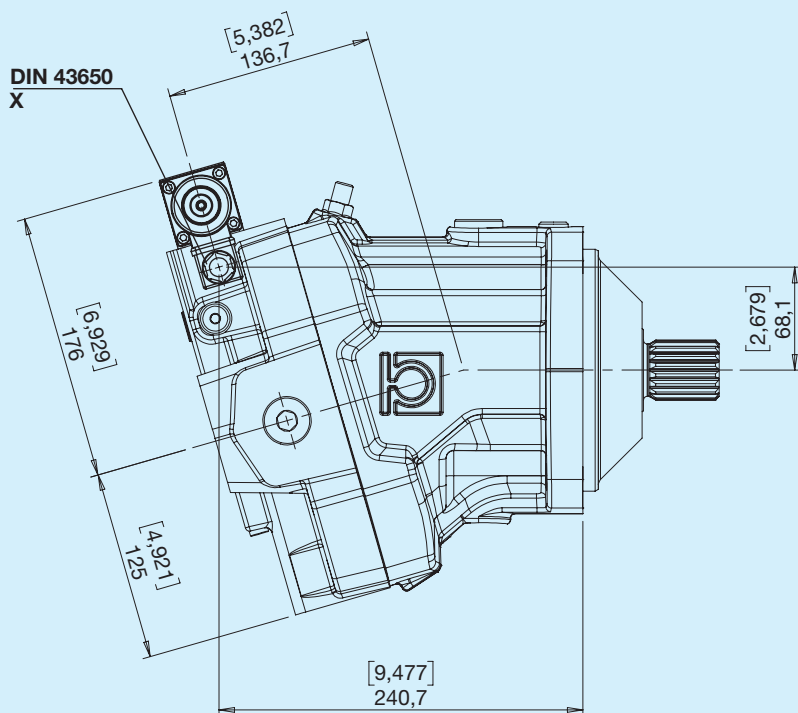
X - Elettrovalvola disponibile a richiesta con connettori DEUTSCH DT04-2P

Ingresso	Rotazione
A	Sinistra
B	Destra

Schema idraulico



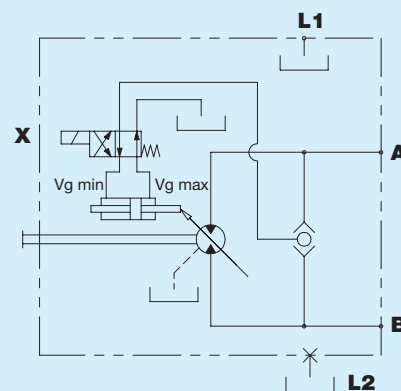
F Elettrico a 2 posizioni 24V



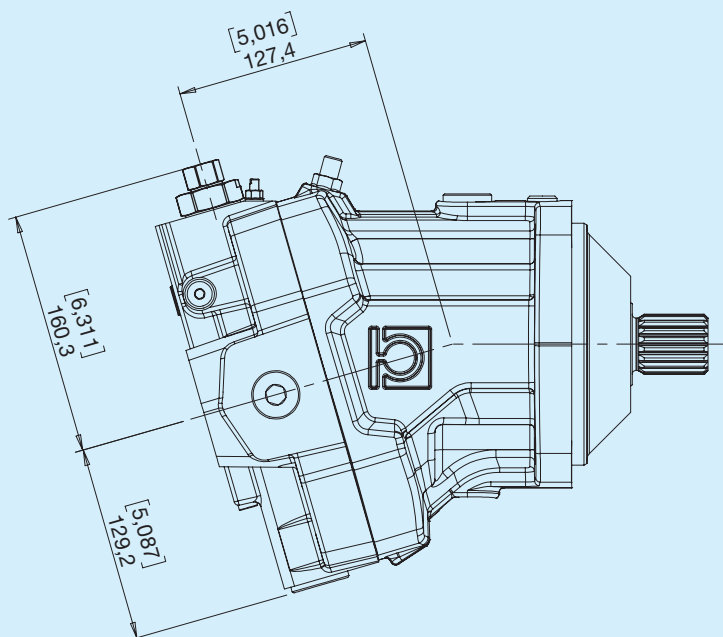
X - Elettrovalvola disponibile a richiesta con connettori DEUTSCH DT04-2P

Ingresso	Rotazione
A	Sinistra
B	Destra

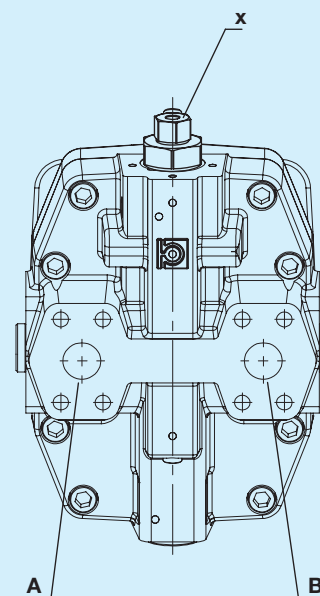
Schema idraulico



G Idraulico proporzionale

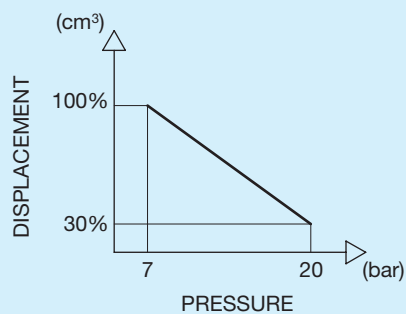


X - Pilotaggio G1/8

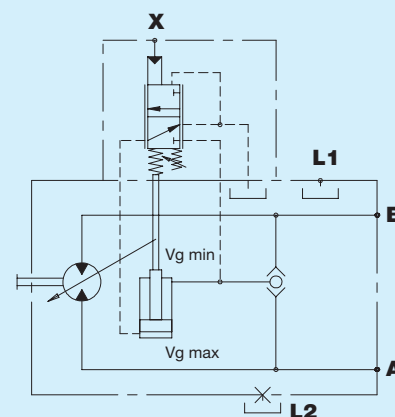


Pilotaggio

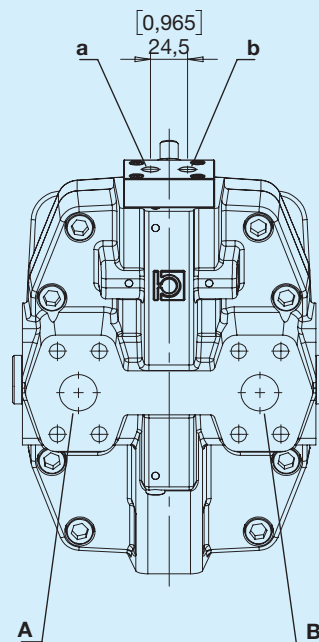
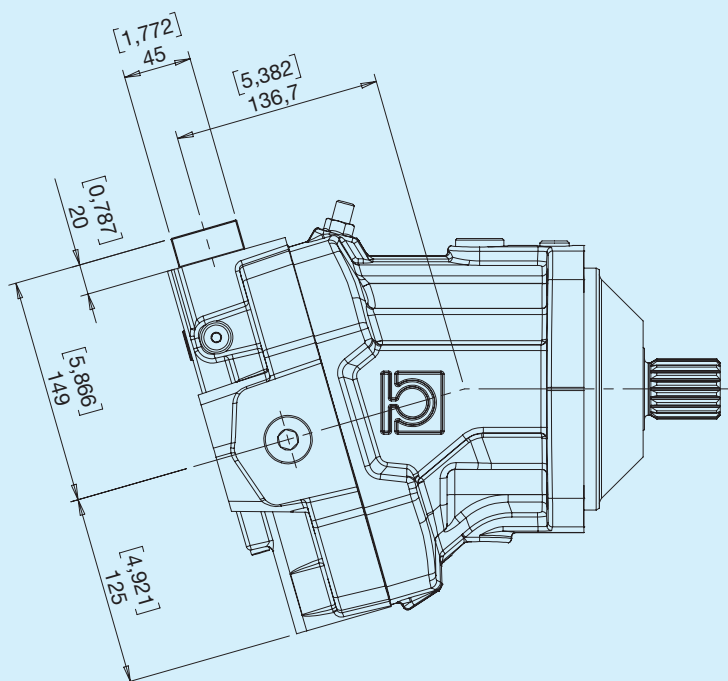
Ingresso	Rotazione
A	Sinistra
B	Destra



Schema idraulico

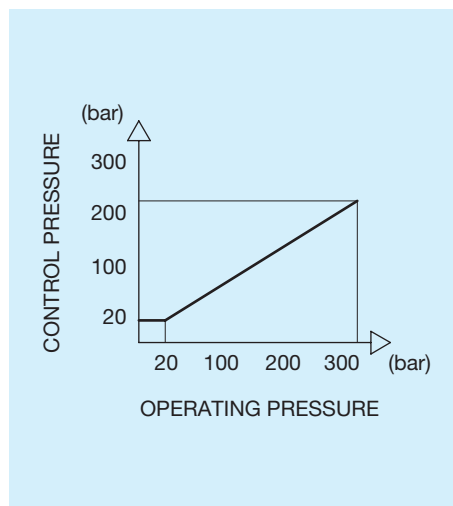


H Idraulico diretto a 2 posizioni

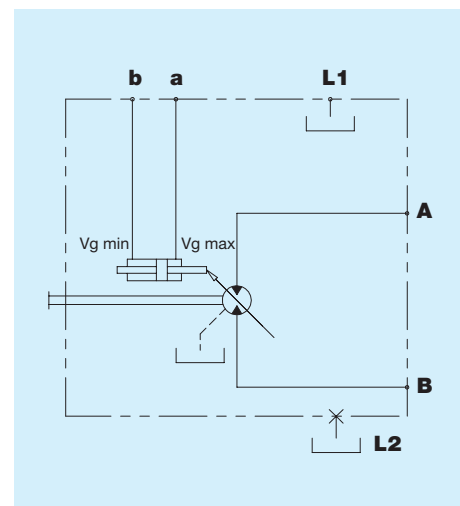


Ingresso	Rotazione
A	Sinistra
B	Destra

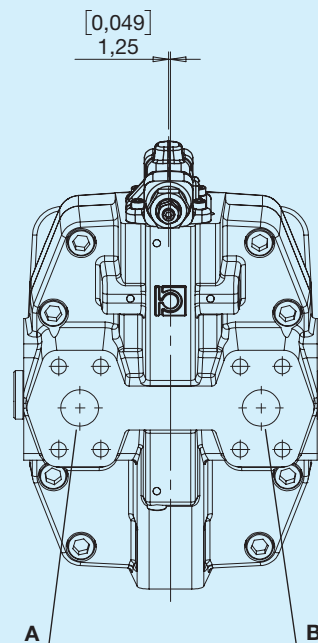
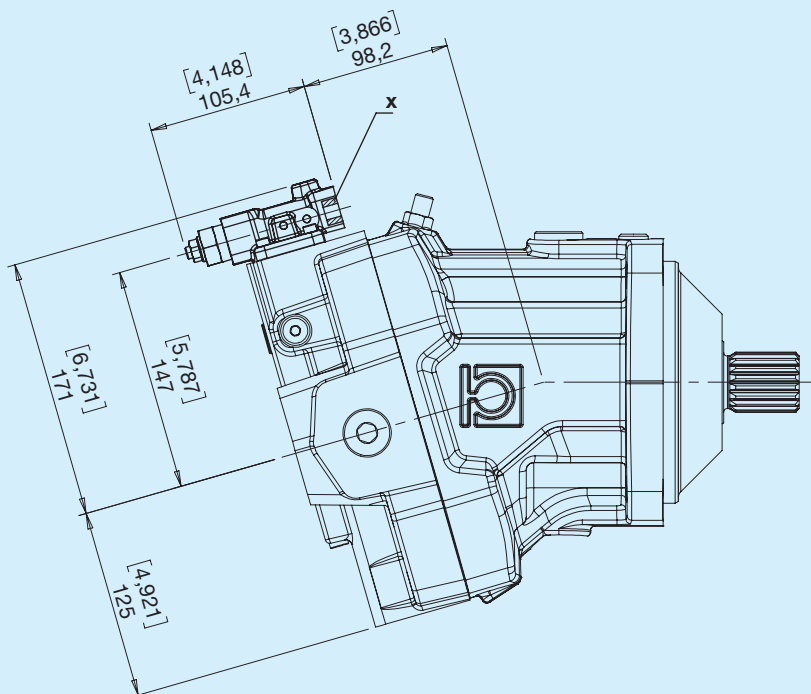
Pilotaggio



Schema idraulico



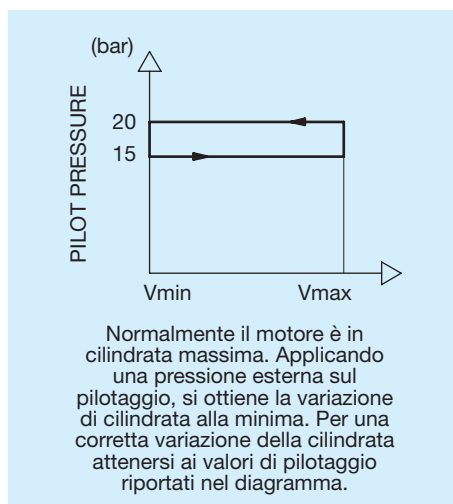
K Idraulico a 2 posizioni a bassa pressione



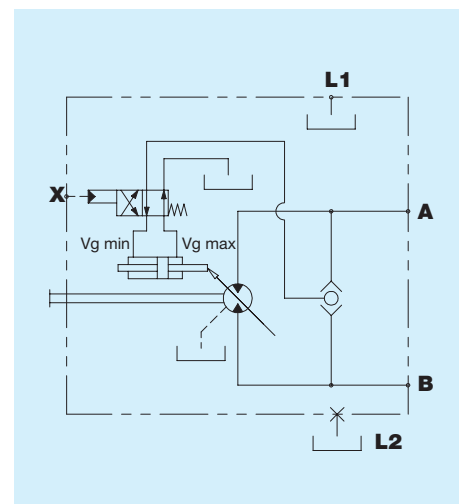
X - Pilotaggio G1/8

Ingresso	Rotazione
A	Sinistra
B	Destra

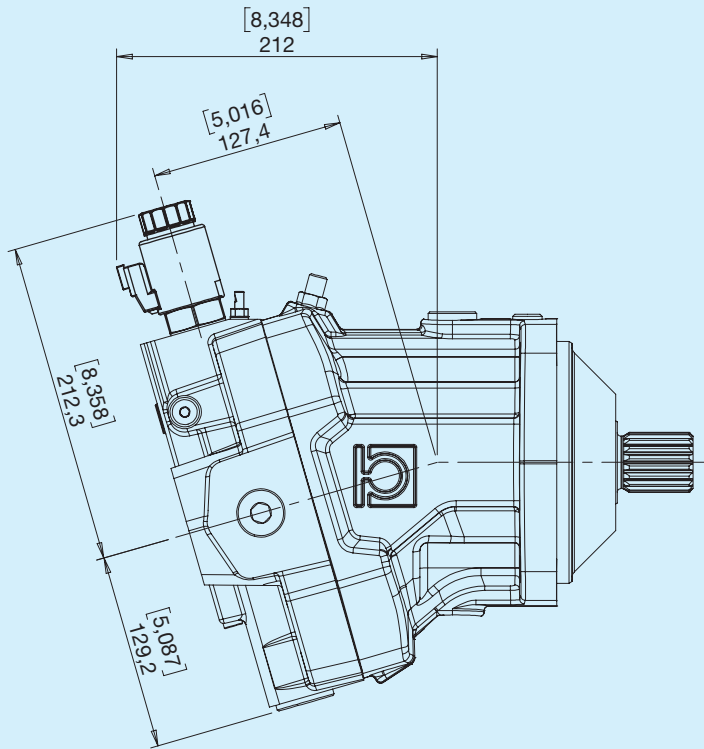
Diagramma



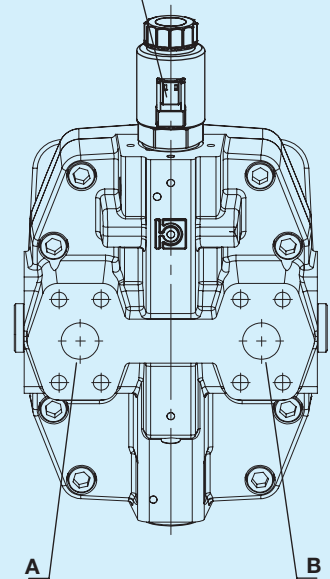
Schema idraulico



O Elettrico proporzionale retroazionato 12V



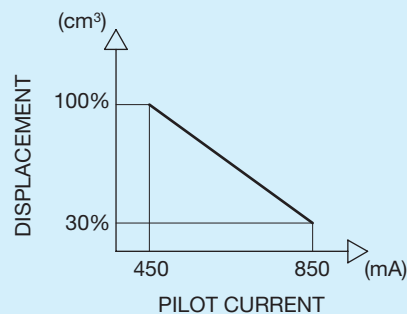
DEUTSCH DT04-2P
X



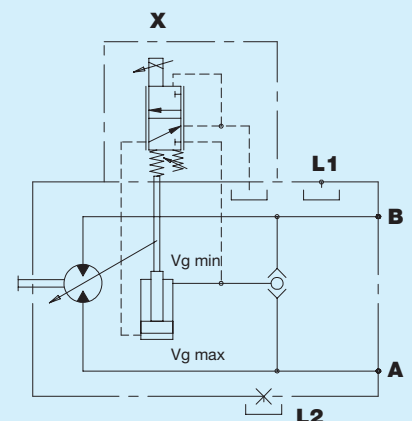
X - Elettrovalvola

Ingresso	Rotazione
A	Sinistra
B	Destra

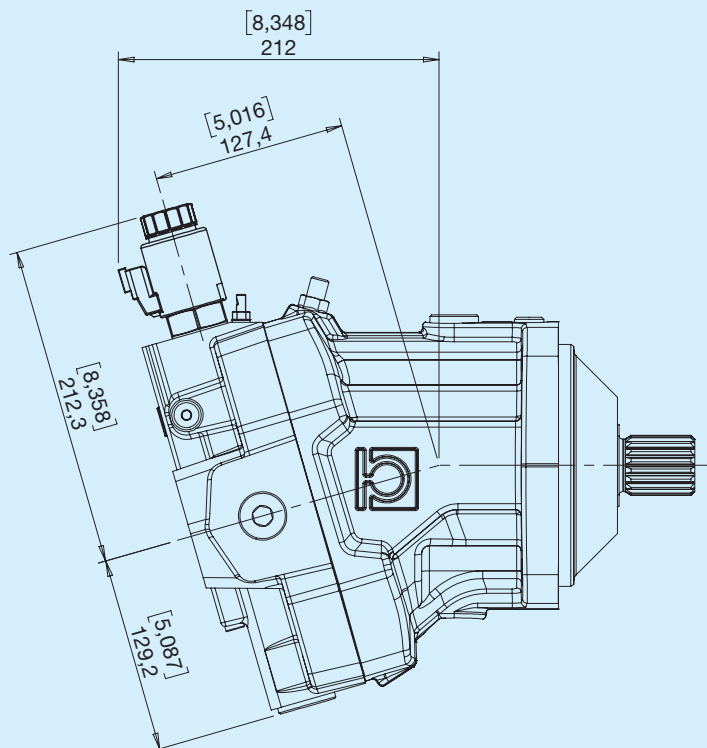
Pilotaggio



Schema idraulico

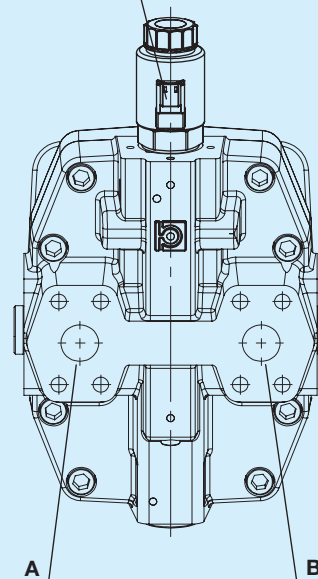


V Elettrico proporzionale retroazionato 24V



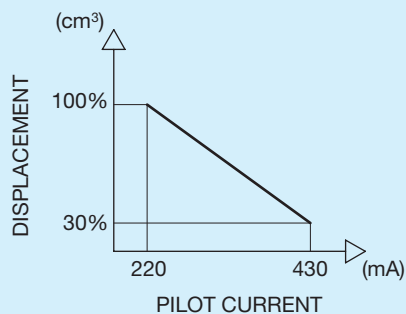
X - Elettrovalvola

DEUTSCH DT04-2P
X

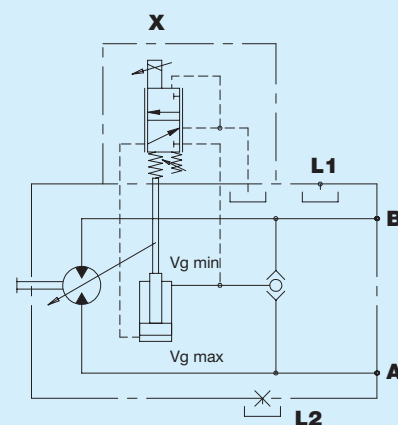


Pilotaggio

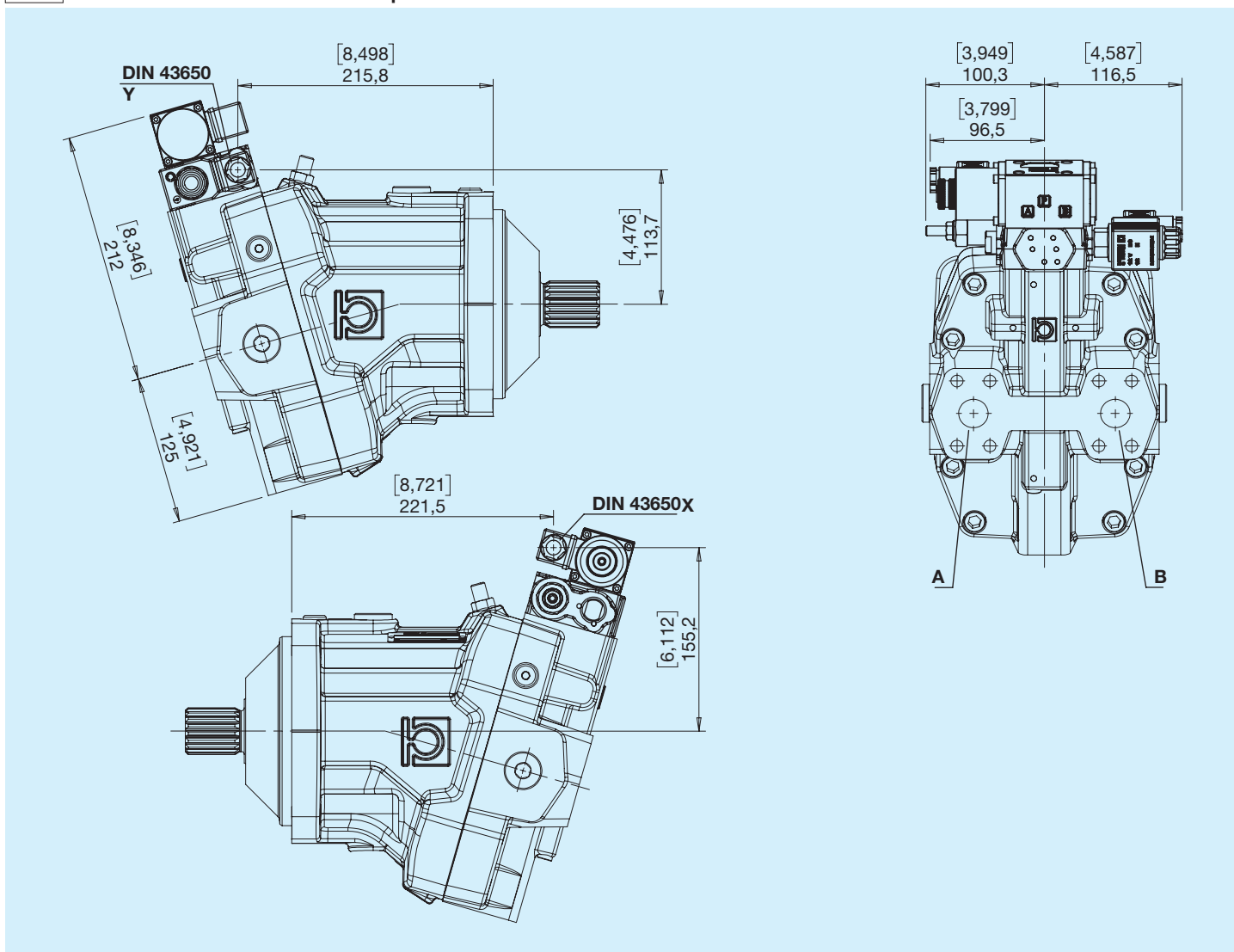
Ingresso	Rotazione
A	Sinistra
B	Destra



Schema idraulico

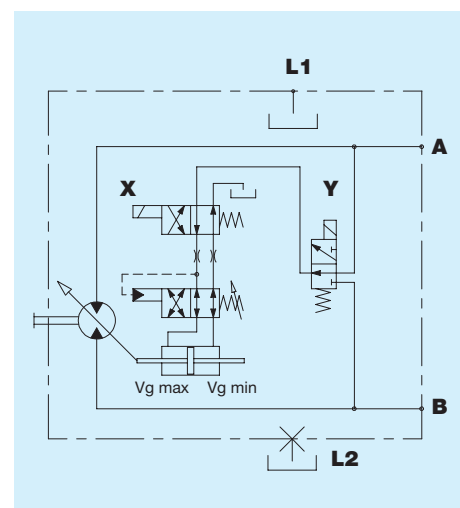


R Elettrico ON/OFF con pressure override e selettore di canale

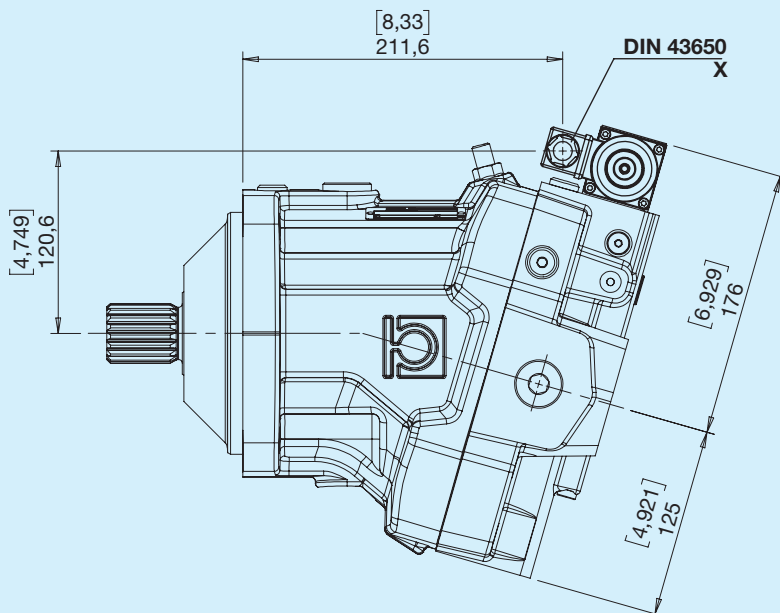
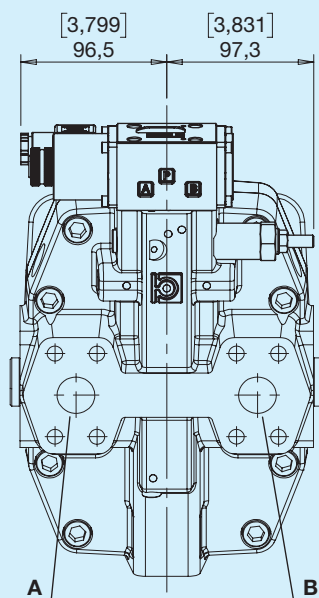


Ingresso	Rotazione
A	Sinistra
B	Destra

Schema idraulico

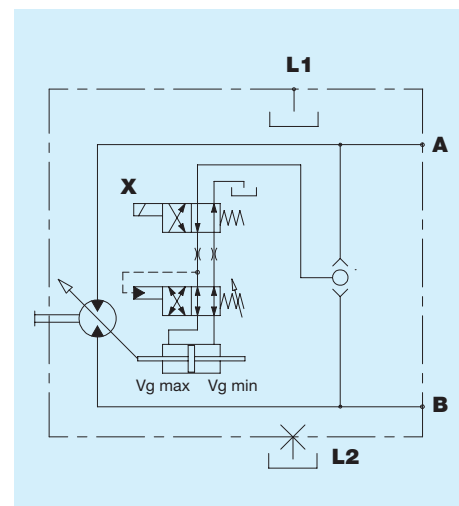


U Elettrico ON/OFF con pressure override

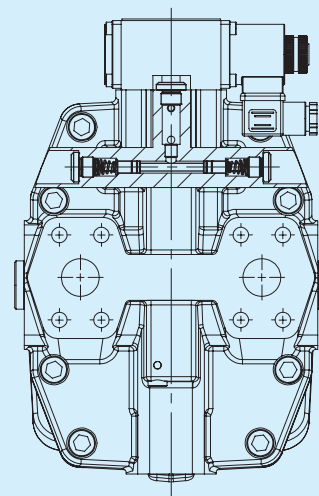
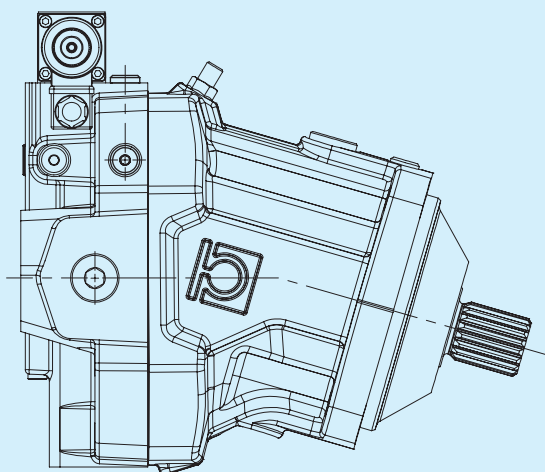


Ingresso	Rotazione
A	Sinistra
B	Destra

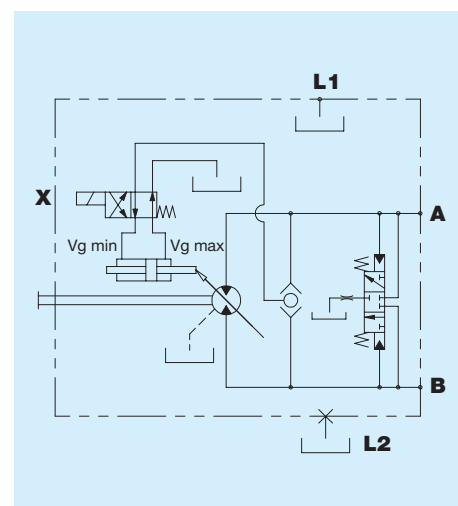
Schema idraulico



V Valvola di flussaggio (5-7 l/min)



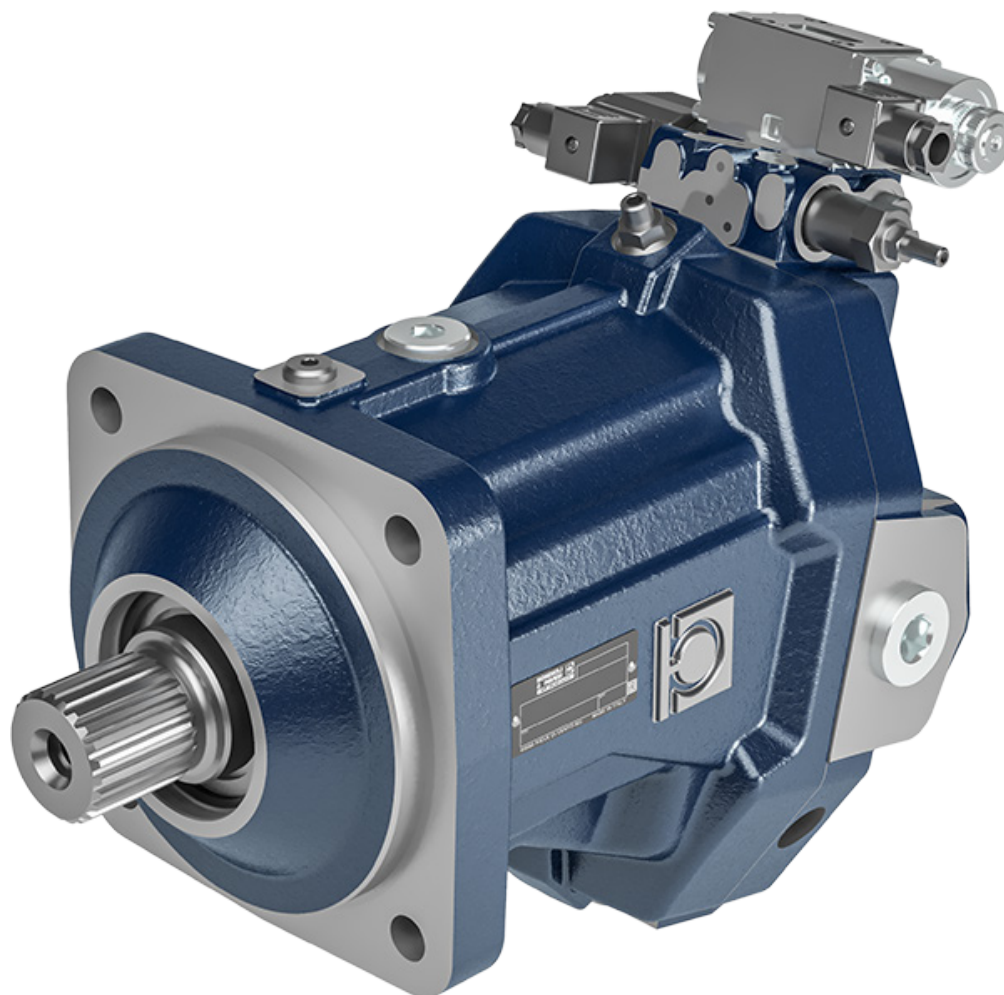
Schema idraulico



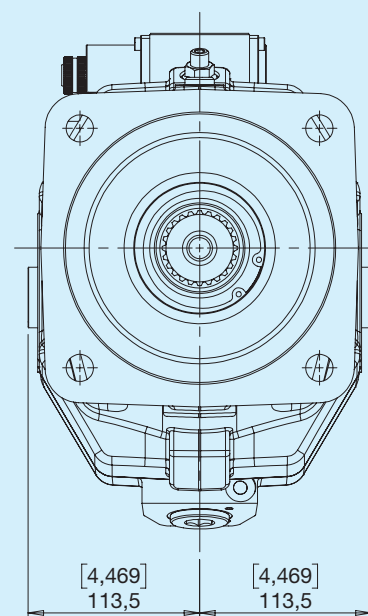
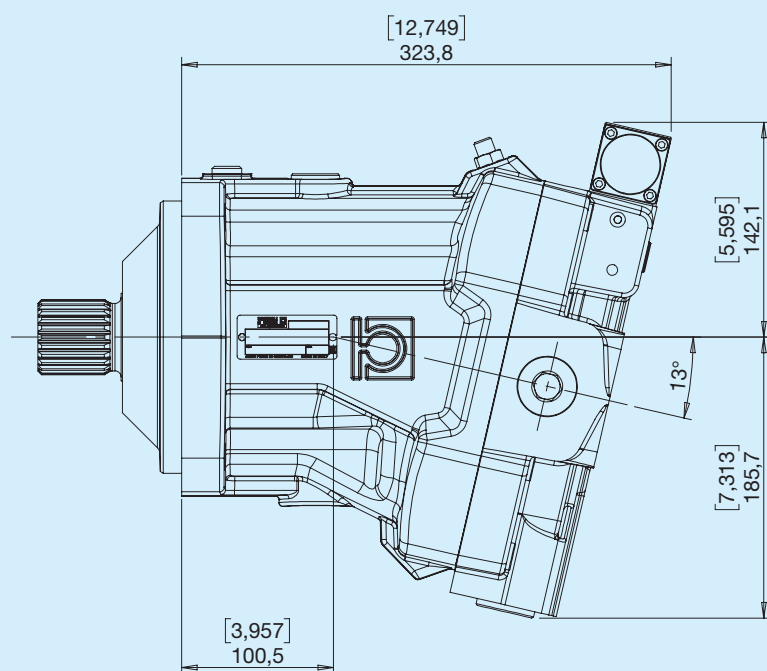
HPBA 110-130			1	2	3	4	5	6	7	8	9	10	11	12	13	14
110			130													
Cilindrata standard																
Cilindrata minima			...													
Flange																
I ISO 4 fori standard			P ISO 2 fori centraggio a cartuccia													
Alberi																
B DIN 5480 W40x2x30x18			D DIN 5480 W45x2x30x21													
Tipo bocche																
G Gas			U Unf			N Gas-Ingresso/Uscita SAE			M Unf-Ingresso/Uscita SAE							
Posizione bocche																
P Posteriori			L Laterali contrapposte			Y Posteriori distributore ruotato (non disponibile per comandi O - V - G)			J Laterali contrapposte distributore ruotato (non disponibile per comandi O - V - G)							
Comandi																
A Idraulico automatico ON/OFF			G Idraulico proporzionale			O Elettrico proporzionale retroazionato 12V			U Elettrico ON/OFF con pressione override							
E Elettrico a 2 posizioni 12V			H Idraulico diretto a 2 posizioni			V Elettrico proporzionale retroazionato 24V										
F Elettrico a 2 posizioni 24V			K Idraulico a 2 posizioni a bassa pressione			R Elettrico ON/OFF con pressione override e selettore di canale										
Accessori																
O Nessuna opzione			V Valvola di flussaggio													
Esecuzioni speciali			...													

Motori a pistoni assiali ad asse inclinato **HPBA 160-200**

Motori a cilindrata variabile HPBA 160-200

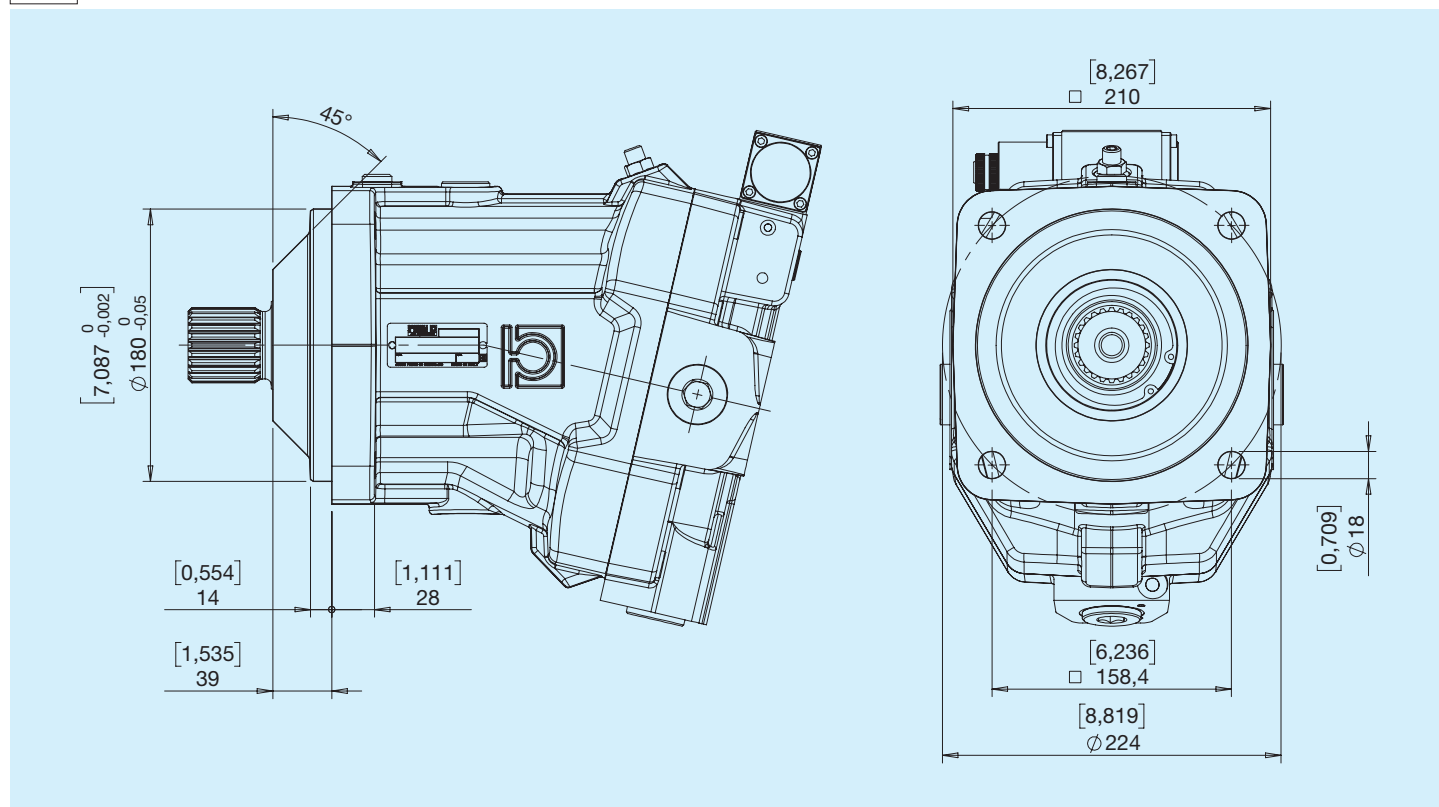


Prima di iniziare l'utilizzo leggere attentamente il documento ISTRUZIONI GENERALI D'IMPIEGO POMPE E MOTORI A PISTONI ASSIALI PER CIRCUITO CHIUSO.

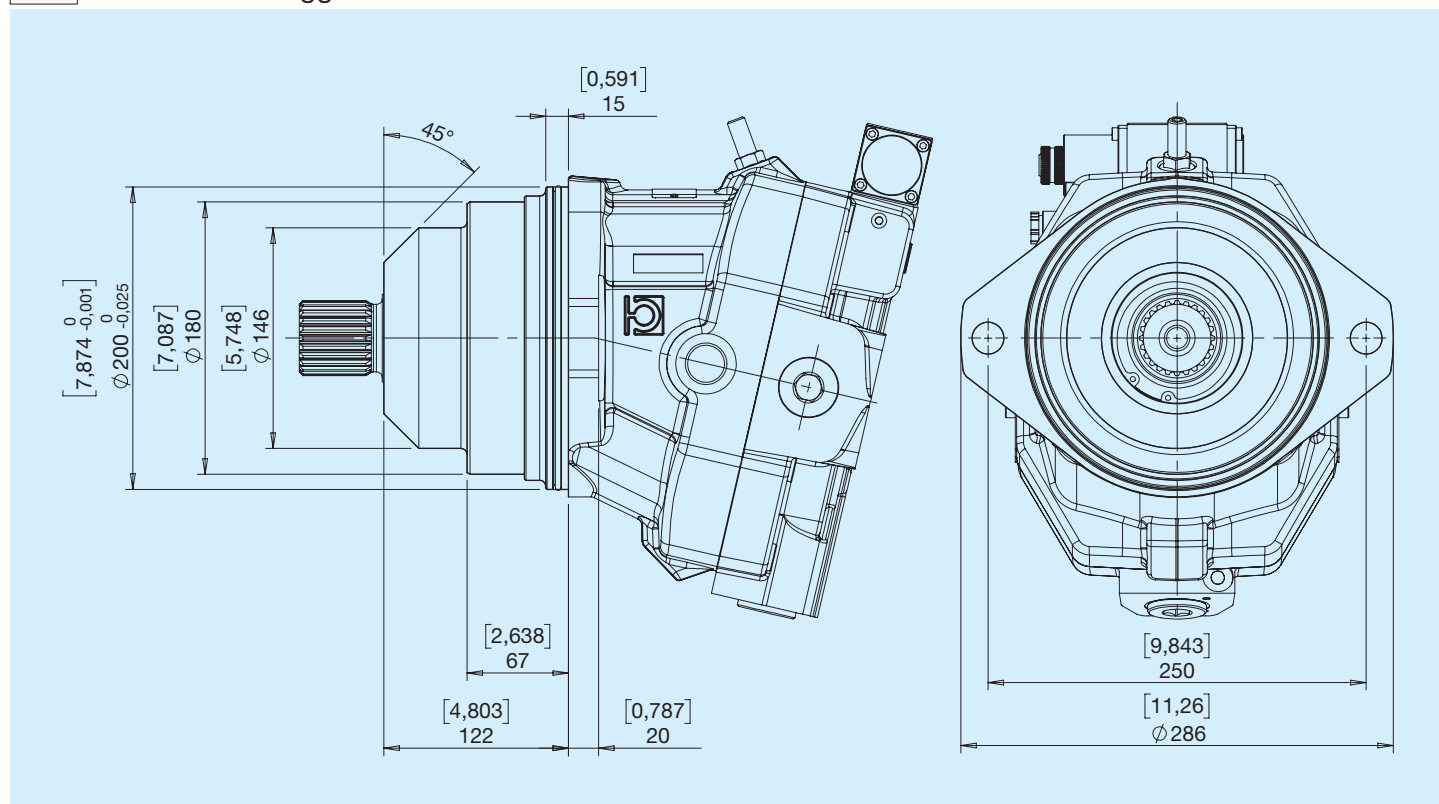


HPBA	Cilindrata teorica		Oscillante °	Pressione Continua		Pressione intermittente		Pressione picco		Velocità di rotazione			Massa	
	cm ³	in ³		bar	psi	bar	psi	bar	psi	MAX (max V) min ⁻¹	MAX (min V) min ⁻¹	MIN min ⁻¹	kg	lbs
160	160	9,77	25	380	5510	400	5800	450	6525	3100	4000	500	80	176
200	200	12,20	25	350	5075	380	5510	420	6090	2800	4000	500	81,7	180

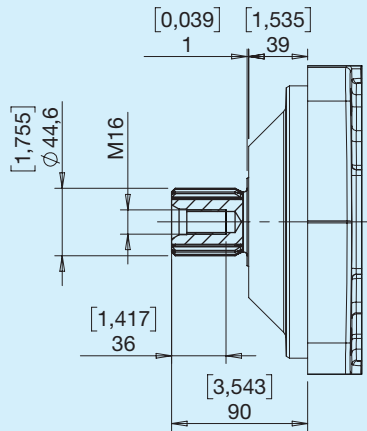
I ISO 4 fori standard



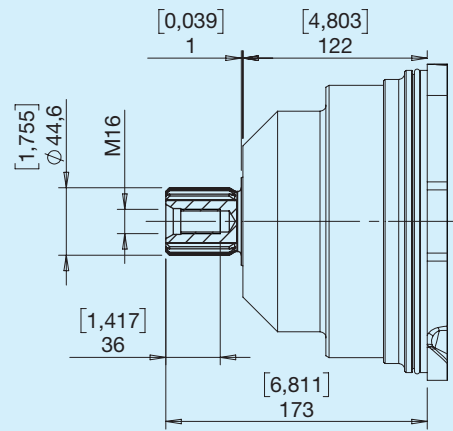
P ISO 2 fori centraggio a cartuccia



D DIN 5480 W45x2x30x21

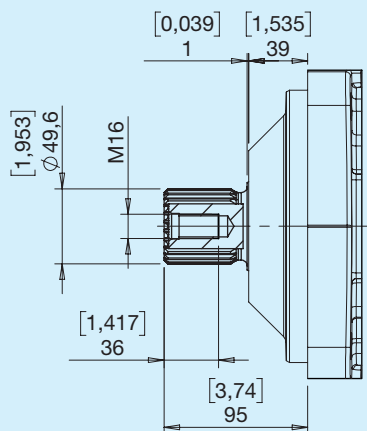


Coppia Max 1980 Nm

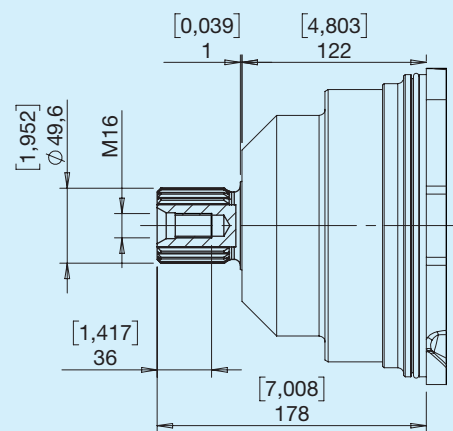


Coppia Max 1980 Nm

E DIN 5480 W50x2x30x24

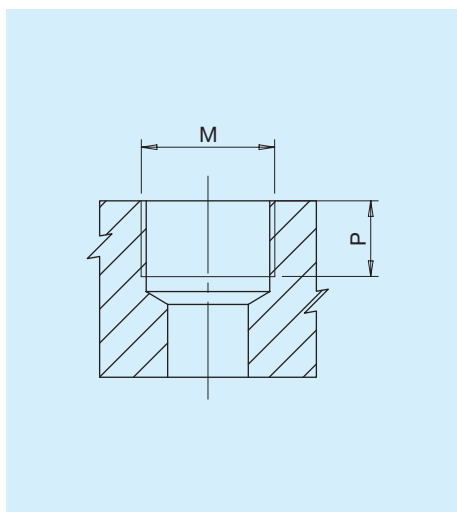


Coppia Max 2860 Nm



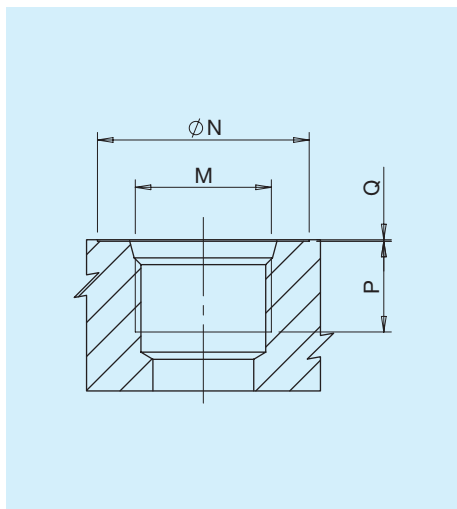
Coppia Max 2860 Nm

Tipo G



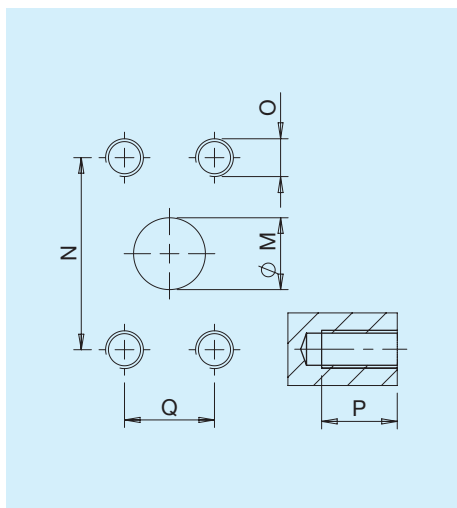
Tipo	M		P	
		Nm	mm	in
G2	Port ISO 1179-1 - G 1/4	17	8	0,31
G6	Port ISO 1179-1 - G 3/4	90	19	0,75
G7	Port ISO 1179-1 - G 1	160	19	0,75

Tipo U



Tipo	Dim.	N		P		Q		M	Nm
		mm	in	mm	in	mm	in		
U2	1/4'	20	0,79	12	0,47	0,3	0,01	Port ISO 11926-1-7/16-20	17
U6	3/4'	41	1,61	20	0,79	0,3	0,01	Port ISO 11926-1-1 1/16-12	90
U7	1'	49	1,93	18	0,70	0,3	0,01	Port ISO 11926-1-1 5/16-12	160

Tipo N

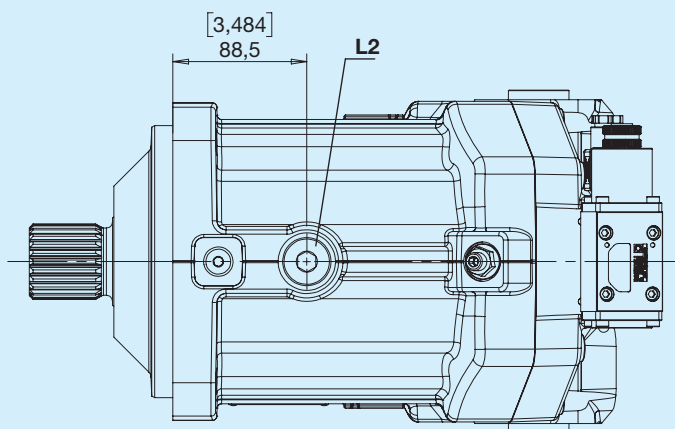
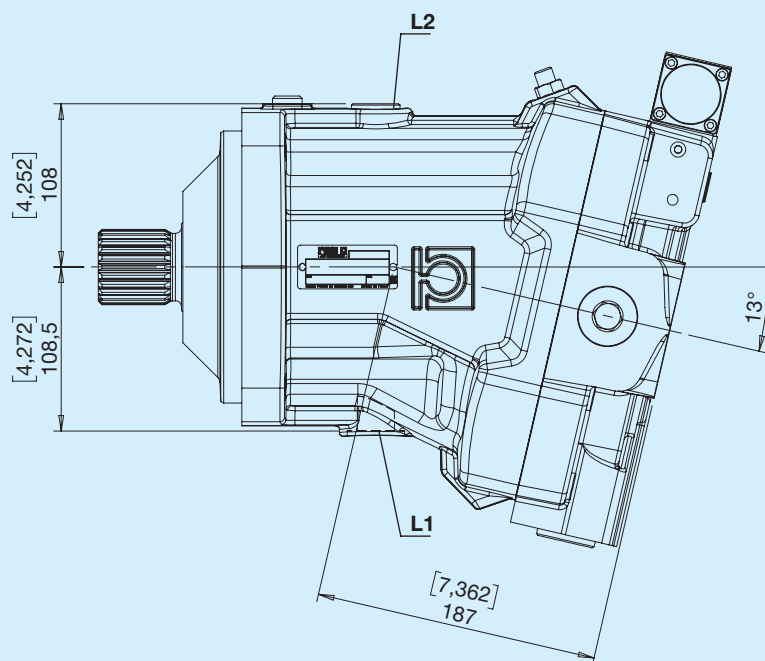
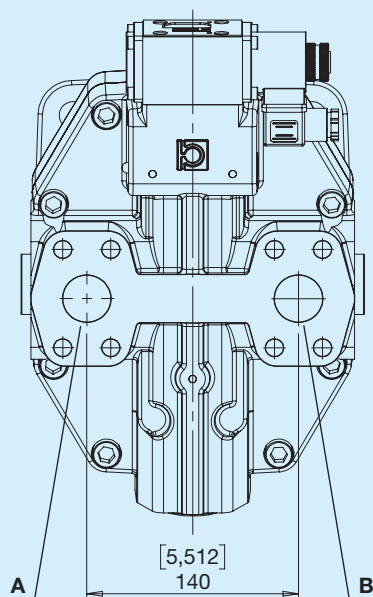


Tipo	M		N		Q		P		O	Nm
	mm	in	mm	in	mm	in	mm	in		
N8	32	1,26	66,7	2,62	31,8	1,25	20	0,79	M12	70

Combinazioni

Tipo	Ingresso/Uscita A-B	Drenaggio L1-L2	Pilotaggio a-b-x
G	G7	G6	G2
U	U7	U6	U2
N	N8	G6	G2
M	N8	U6	U2

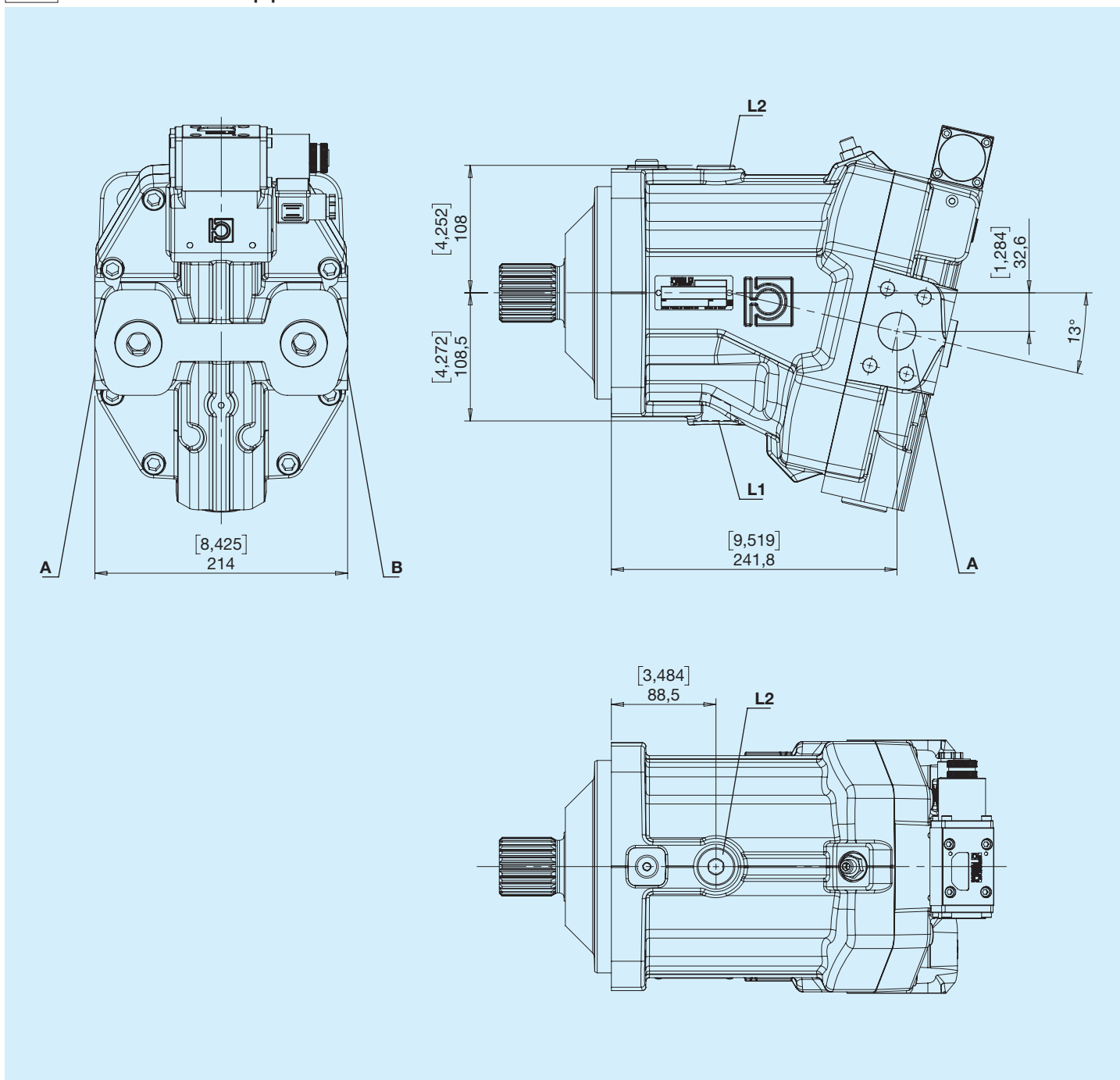
P Posteriori



A,B - Ingresso/Uscita

L1, L2 - Drenaggio

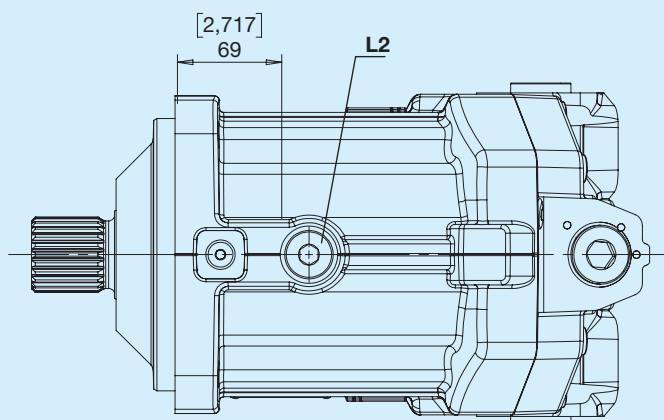
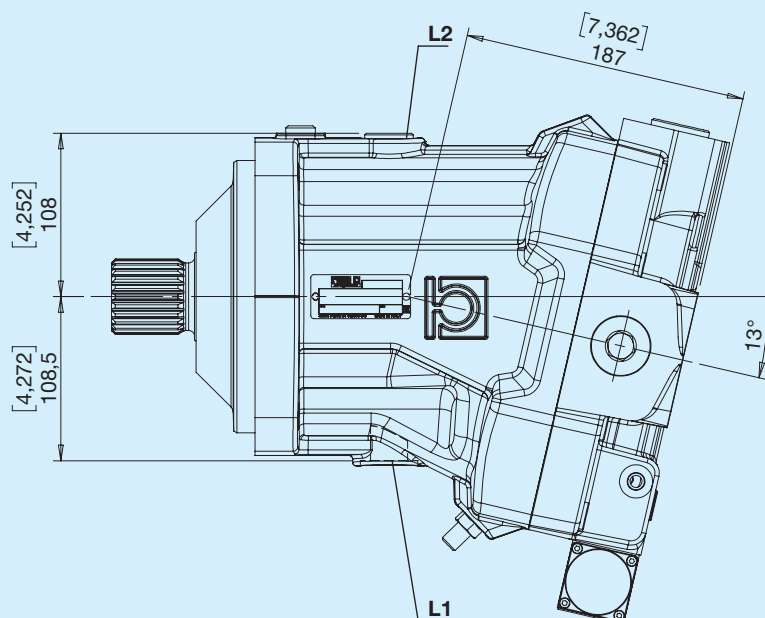
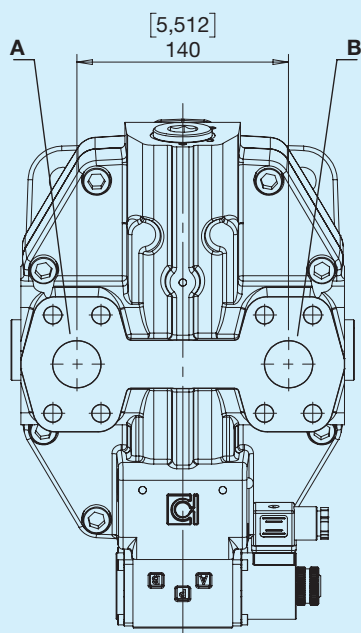
L Laterali contrapposte



A,B - Ingresso/Uscita

L1, L2 - Drenaggio

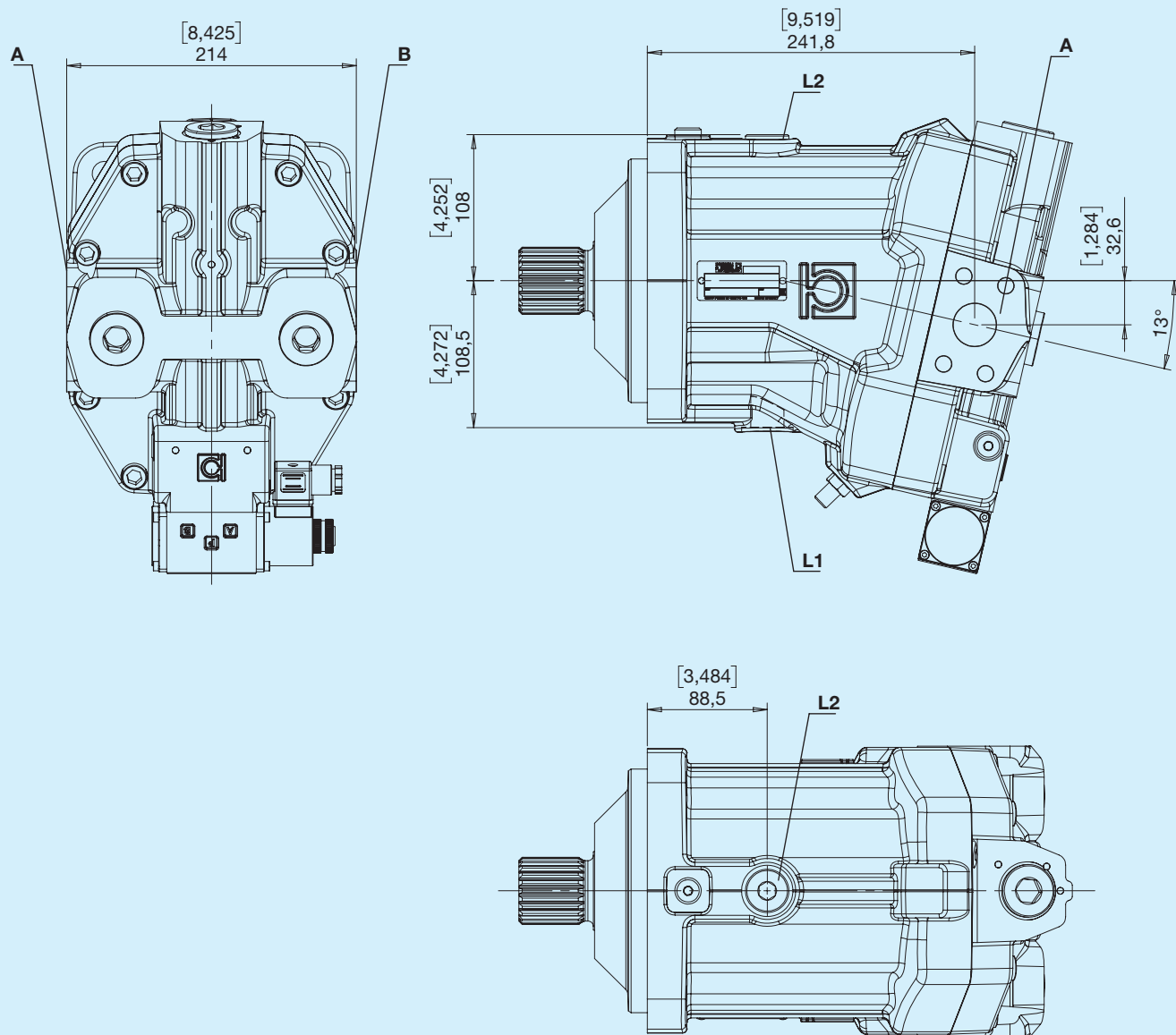
Y Posteriori distributore ruotato



A,B - Ingresso/Uscita

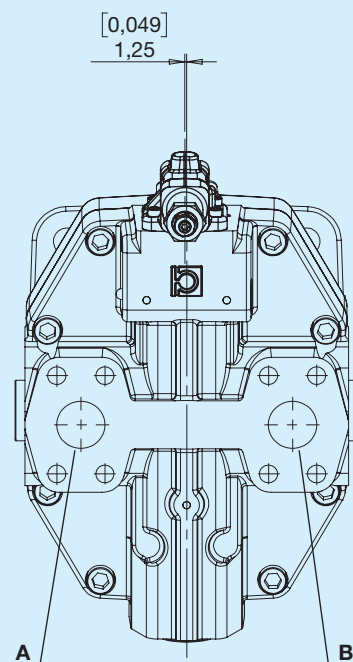
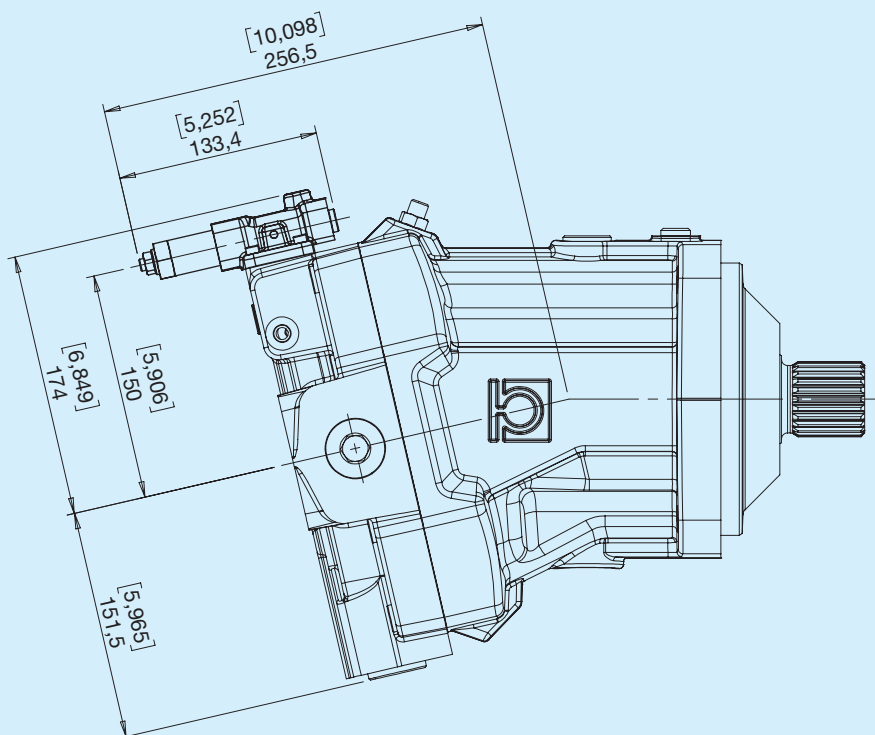
L1, L2 - Drenaggio

J Lateralì contrapposte distributore ruotato



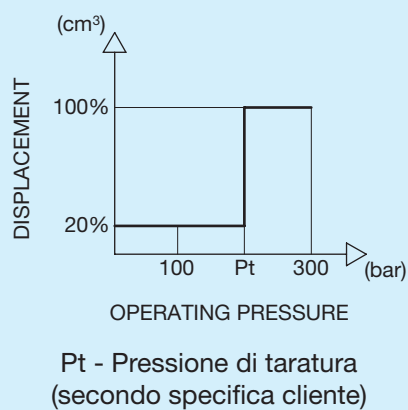
A,B - Ingresso/Uscita
L1, L2 - Drenaggio

A Idraulico automatico ON/OFF

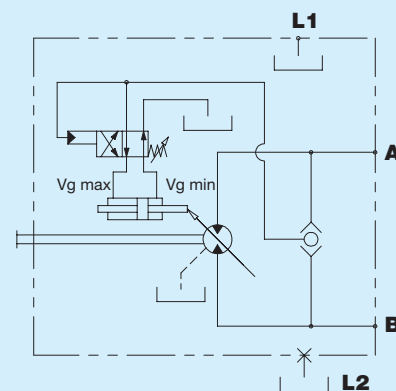


Ingresso	Rotazione
A	Sinistra
B	Destra

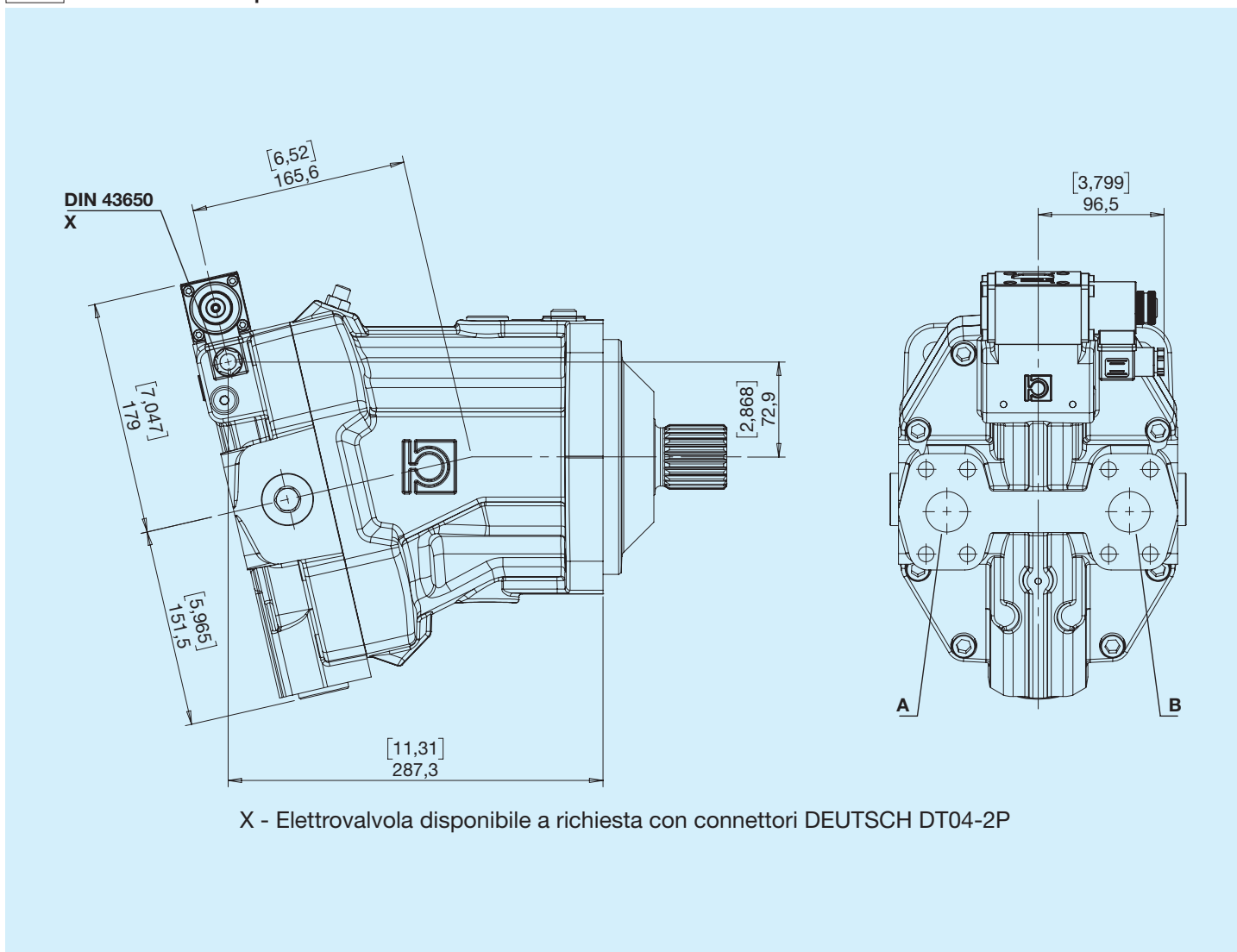
Pilotaggio



Schema idraulico

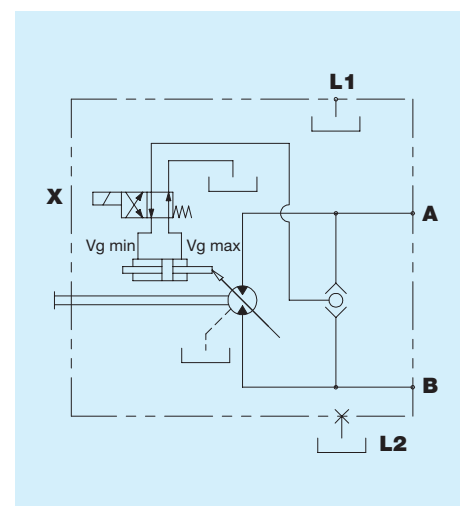


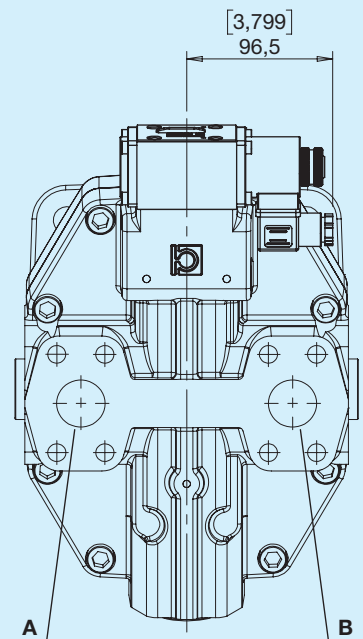
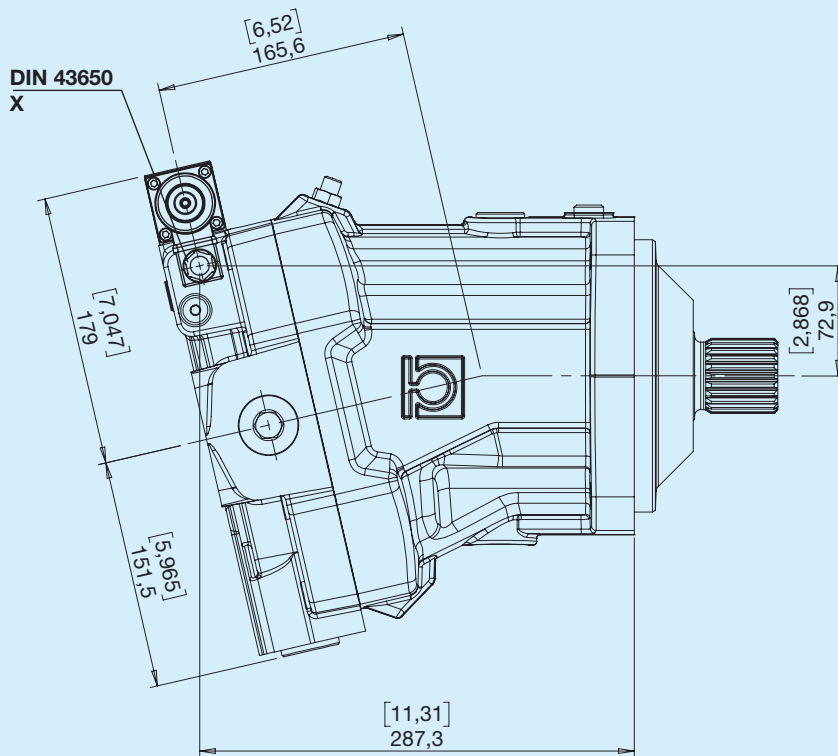
E Elettrico a 2 posizioni 12V



Ingresso	Rotazione
A	Sinistra
B	Destra

Schema idraulico

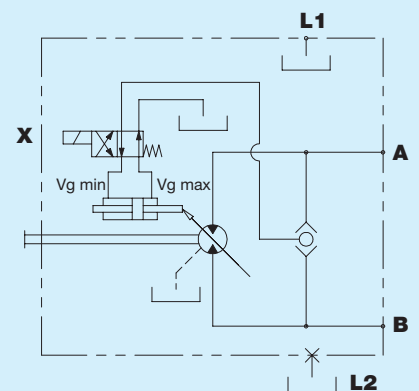


F Elettrico a 2 posizioni 24V

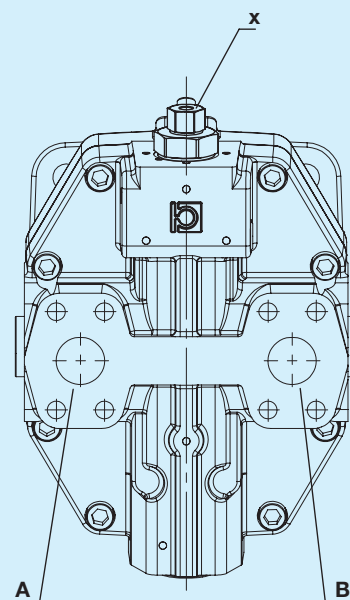
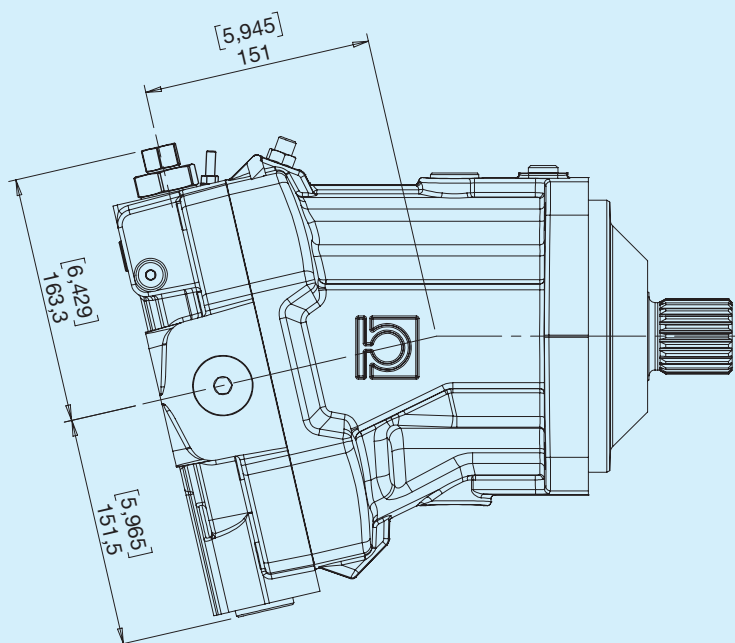
X - Elettrovalvola disponibile a richiesta con connettori DEUTSCH DT04-2P

Ingresso	Rotazione
A	Sinistra
B	Destra

Schema idraulico



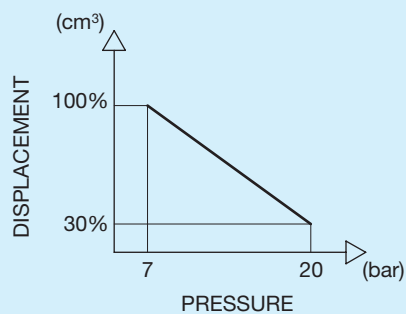
G Idraulico proporzionale



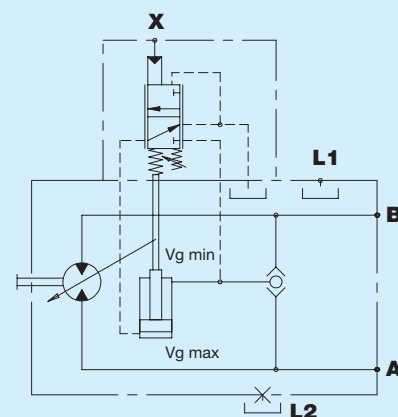
X - Pilotaggio G1/8

Pilotaggio

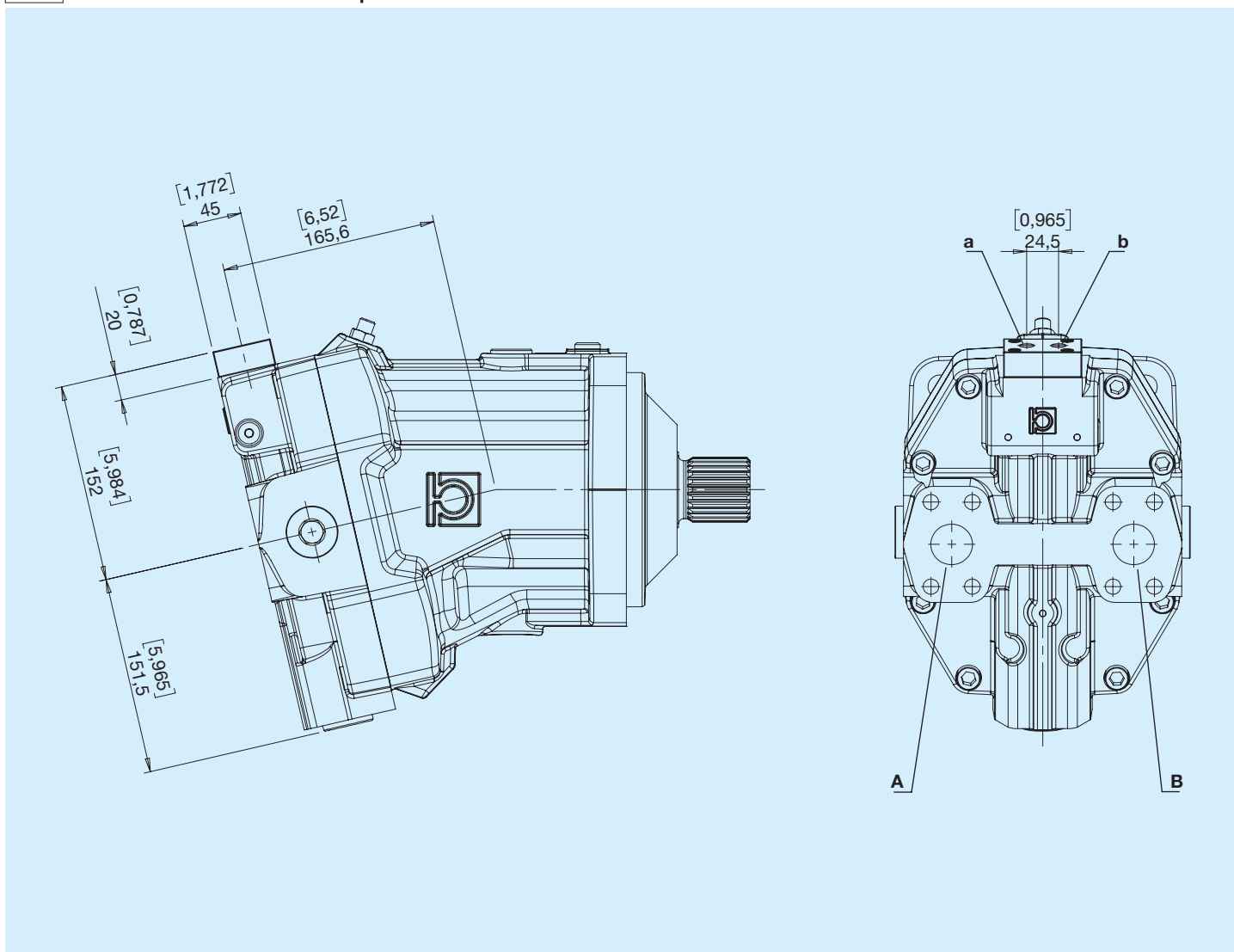
Ingresso	Rotazione
A	Sinistra
B	Destra



Schema idraulico

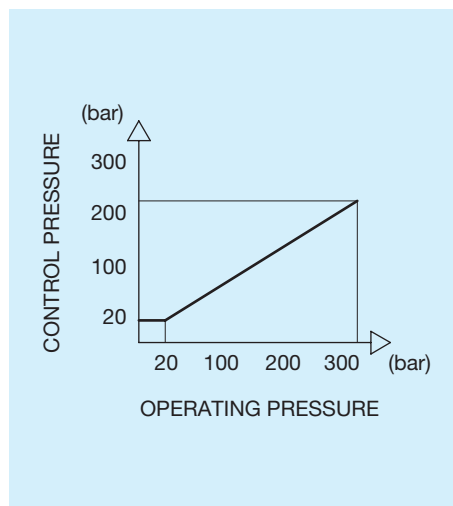


H Idraulico diretto a 2 posizioni

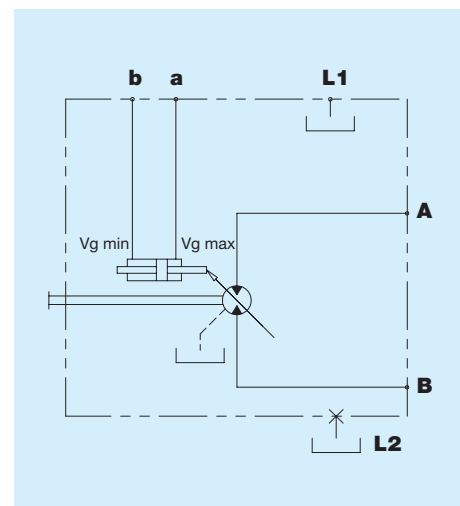


Pilotaggio

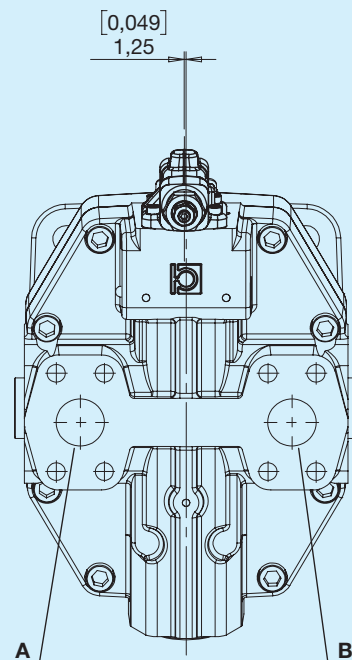
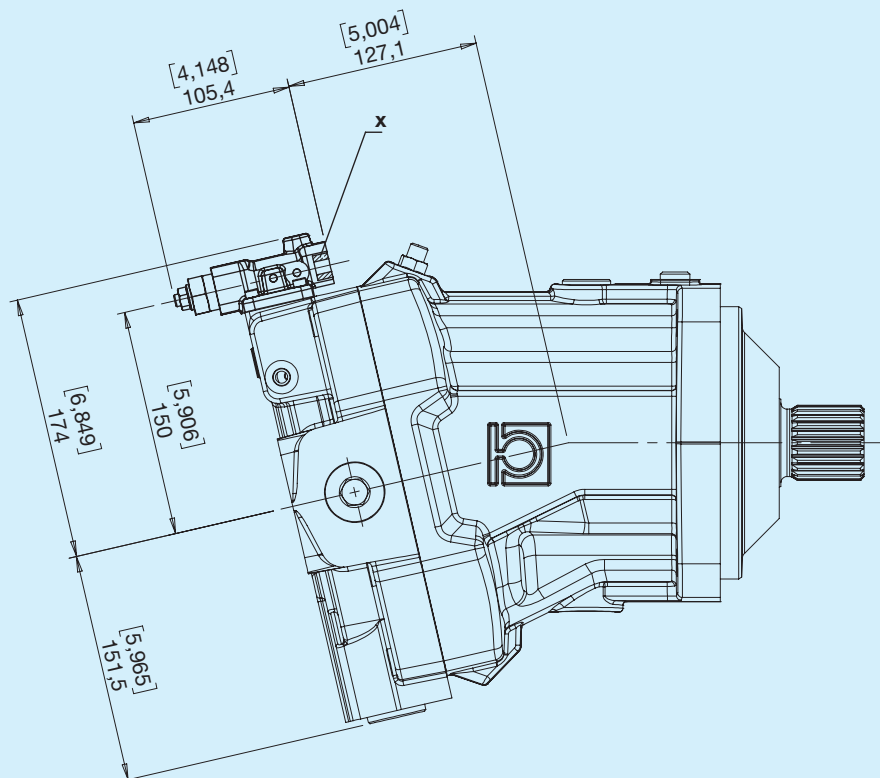
Ingresso	Rotazione
A	Sinistra
B	Destra



Schema idraulico



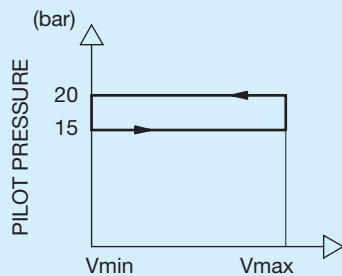
K Idraulico a 2 posizioni a bassa pressione



X - Pilotaggio G1/8

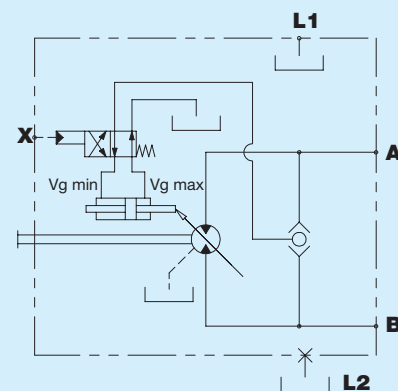
Ingresso	Rotazione
A	Sinistra
B	Destra

Diagramma

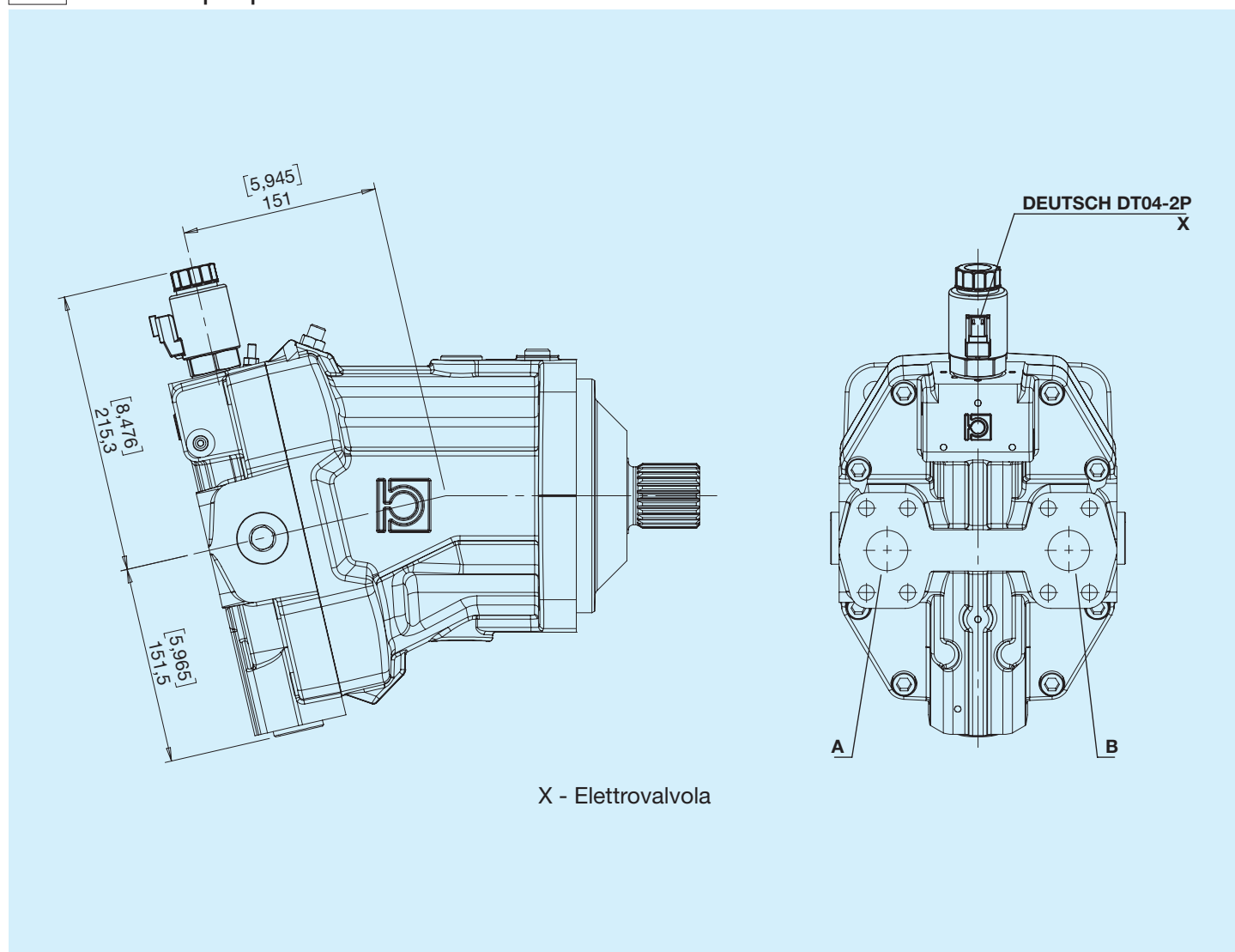


Normalmente il motore è in cilindrata massima. Applicando una pressione esterna sul pilotaggio, si ottiene la variazione di cilindrata alla minima. Per una corretta variazione della cilindrata attenersi ai valori di pilotaggio riportati nel diagramma.

Schema idraulico

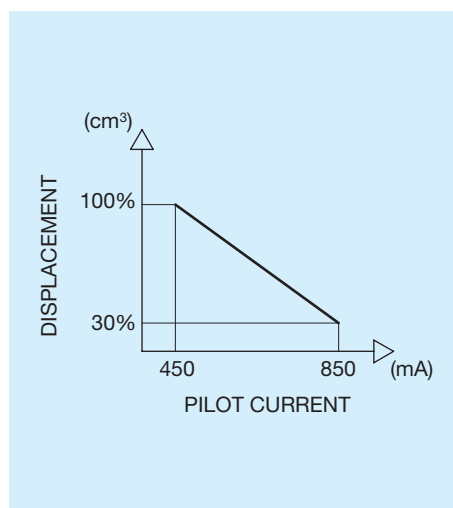


O Elettrico proporzionale retroazionato 12V

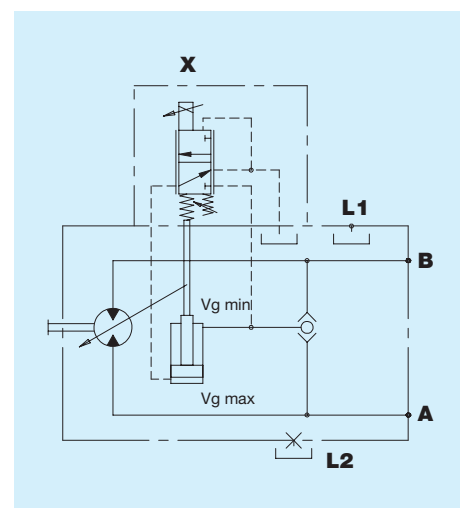


Ingresso	Rotazione
A	Sinistra
B	Destra

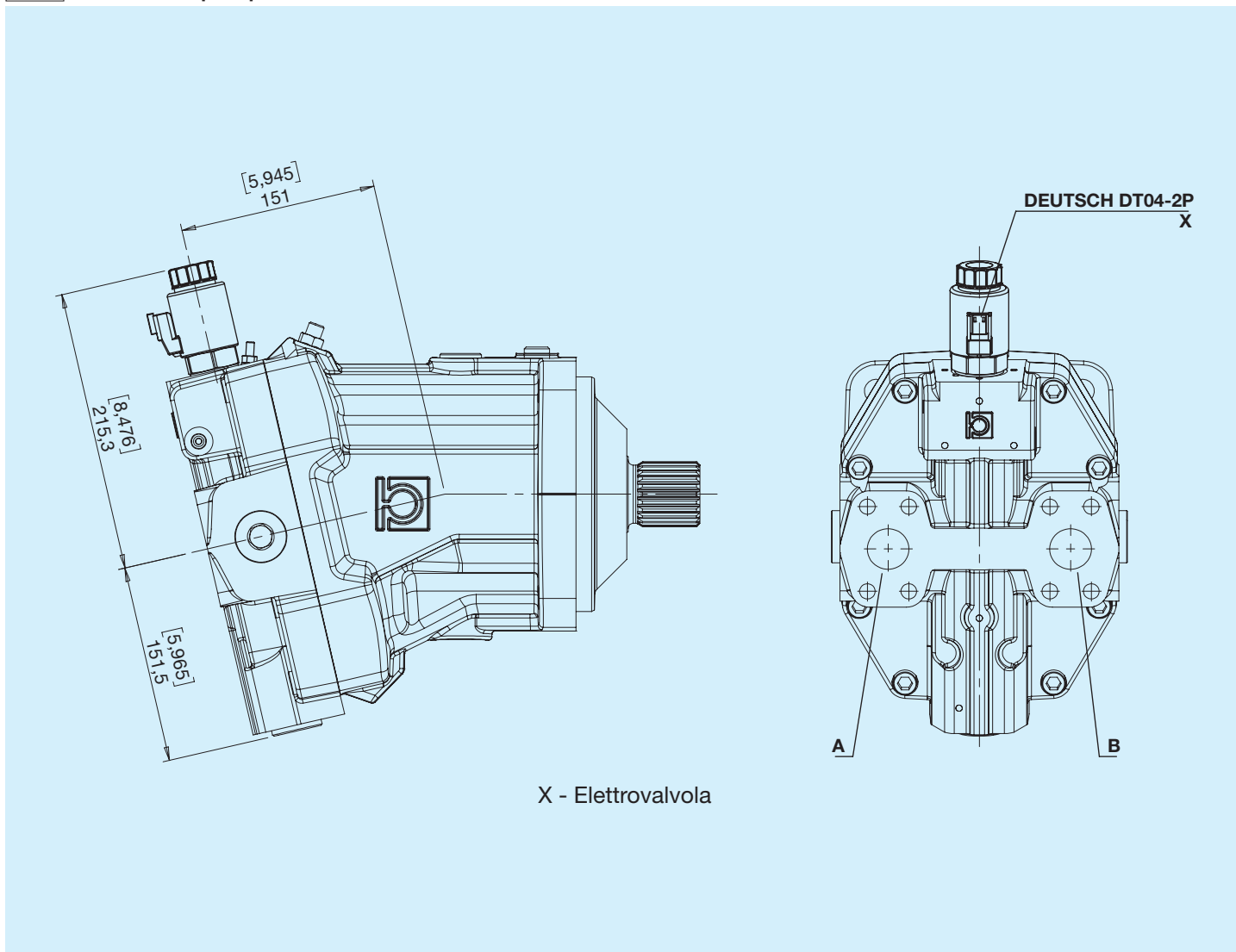
Pilotaggio



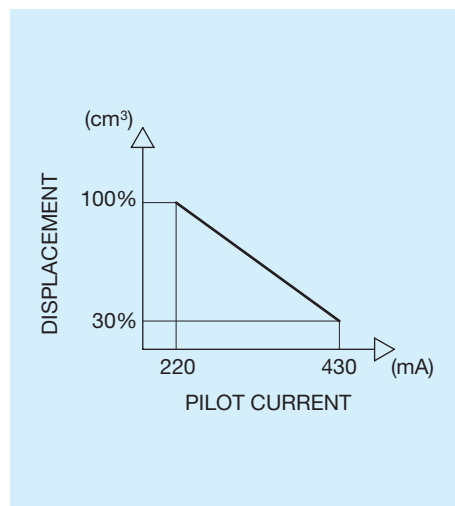
Schema idraulico



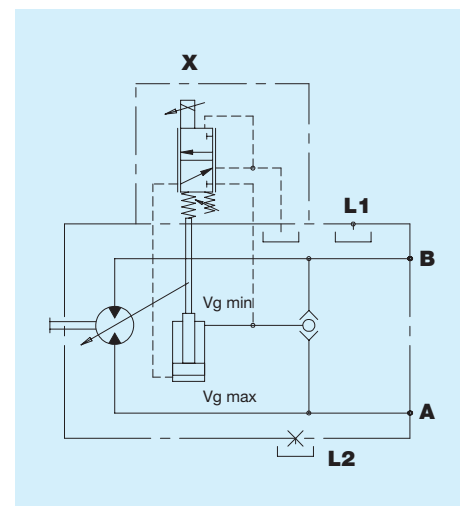
V Elettrico proporzionale retroazionato 24V



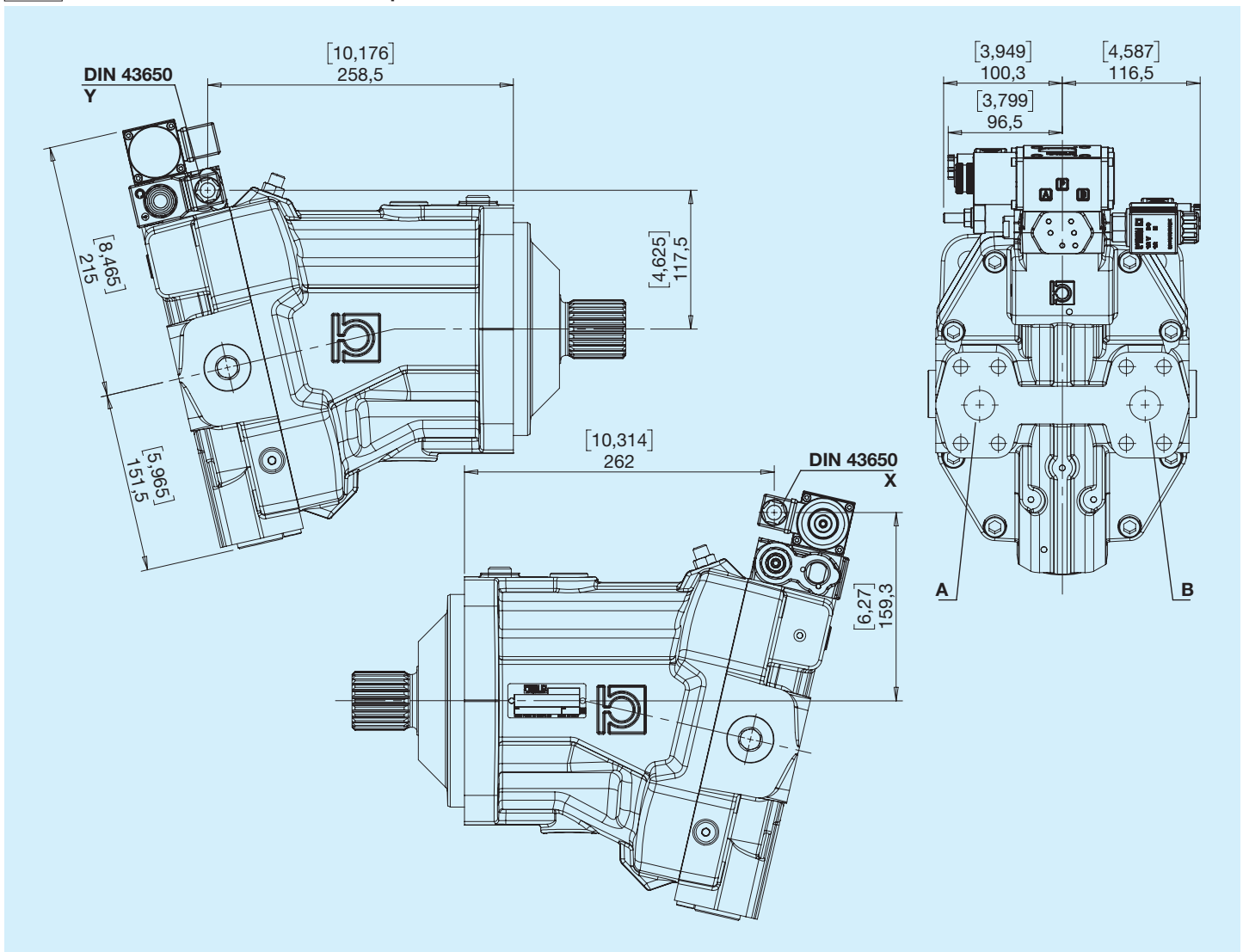
Pilotaggio



Schema idraulico

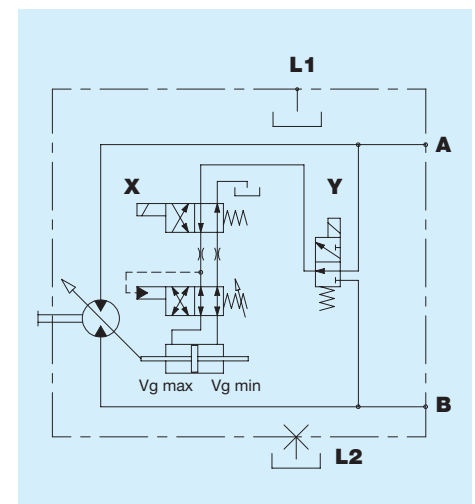


R Elettrico ON/OFF con pressure override e selettore di canale

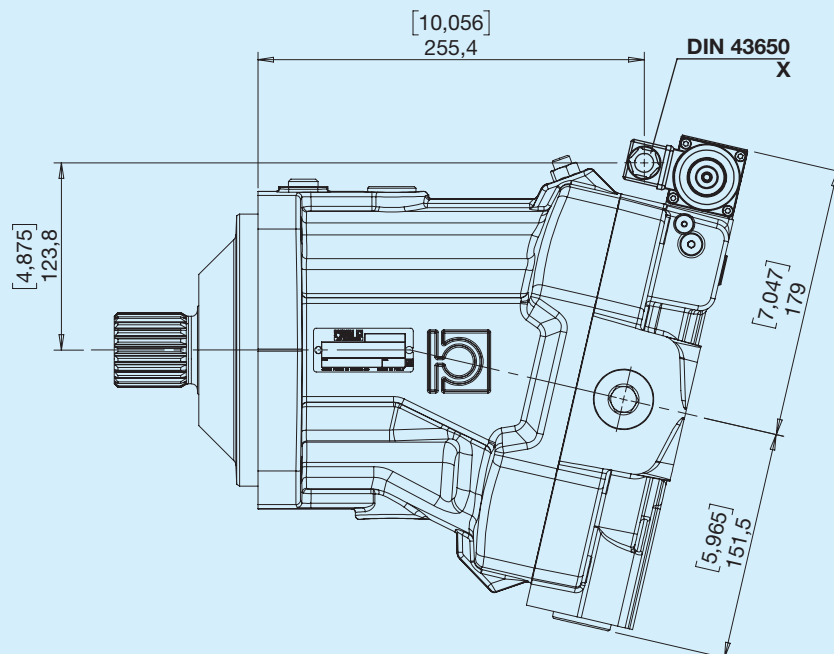
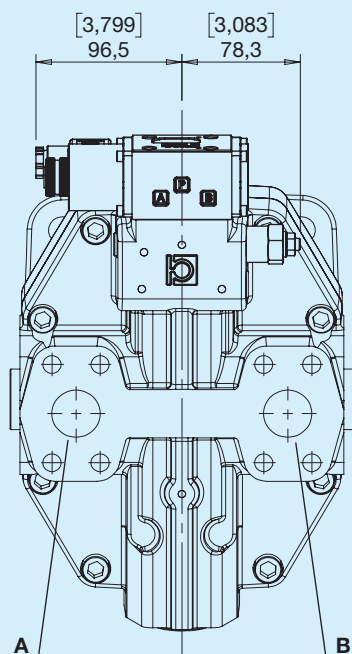


Schema idraulico

Ingresso	Rotazione
A	Sinistra
B	Destra

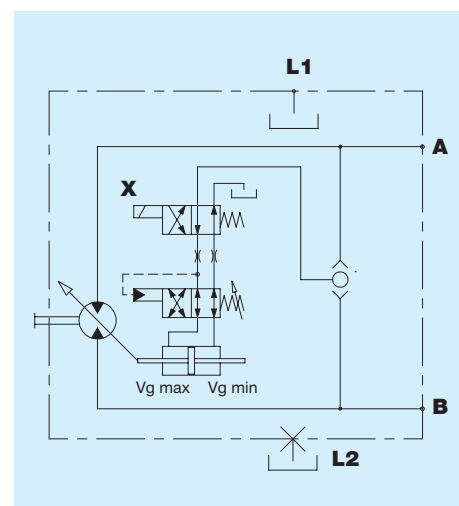


U Elettrico ON/OFF con pressure override

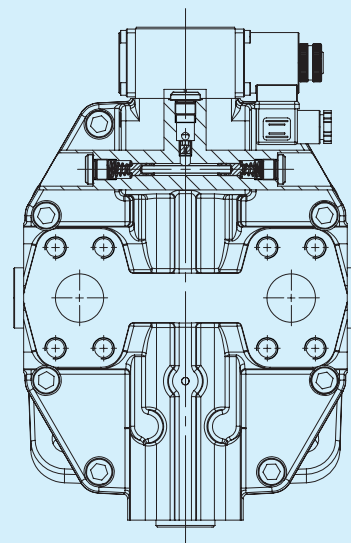
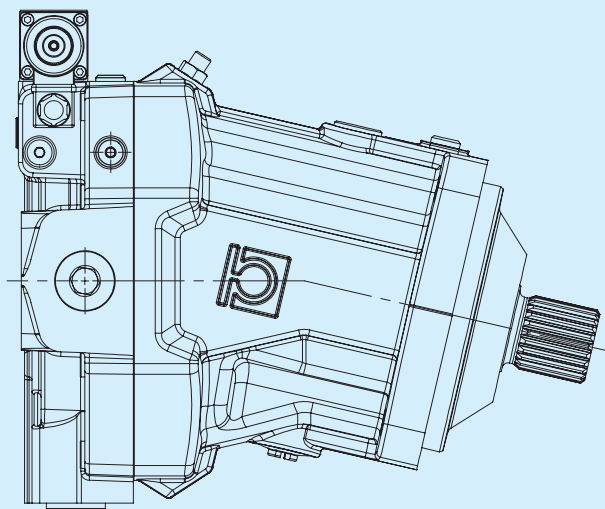


Ingresso	Rotazione
A	Sinistra
B	Destra

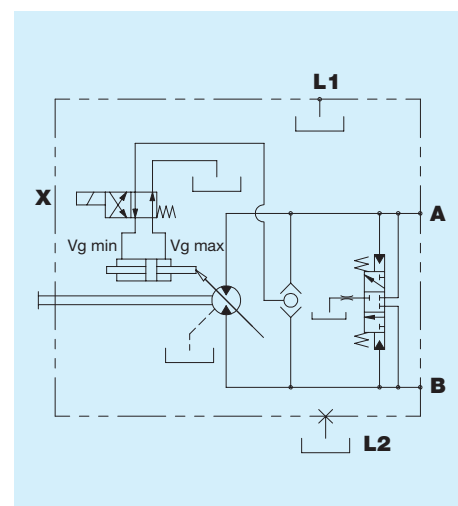
Schema idraulico



V Valvola di flussaggio (5-7 l/min)



Schema idraulico



1 2 3			4 5		6	7	8	9	10	11	12 13 14		
HPBA 160-200													
1 2 3			Cilindrata standard										
160			200										
4 5			Cilindrata minima										
...													
6			Flange										
I ISO 4 fori standard			P ISO 2 fori centraggio a cartuccia										
7			Alberi										
D DIN 5480 W45x2x30x21			E DIN 5480 W50x2x30x24										
8			Tipo bocche										
G Gas			U Unf		N Gas-Ingresso/Uscita SAE			M Unf-Ingresso/Uscita SAE					
9			Posizione bocche										
P Posteriori			L Laterali contrapposte		Y Posteriori distributore ruotato (non disponibile per comandi O - V - G)			J Laterali contrapposte distributore ruotato (non disponibile per comandi O - V - G)					
10			Comandi										
A Idraulico automatico ON/OFF			G Idraulico proporzionale		O Elettrico proporzionale retroazionato 12V			U Elettrico ON/OFF con pressione override					
E Elettrico a 2 posizioni 12V			H Idraulico diretto a 2 posizioni		V Elettrico proporzionale retroazionato 24V								
F Elettrico a 2 posizioni 24V			K Idraulico a 2 posizioni a bassa pressione		R Elettrico ON/OFF con pressione override e selettore di canale								
11			Accessori										
0 Nessuna opzione			V Valvola di flussaggio										
12 13 14			Esecuzioni speciali										
...													