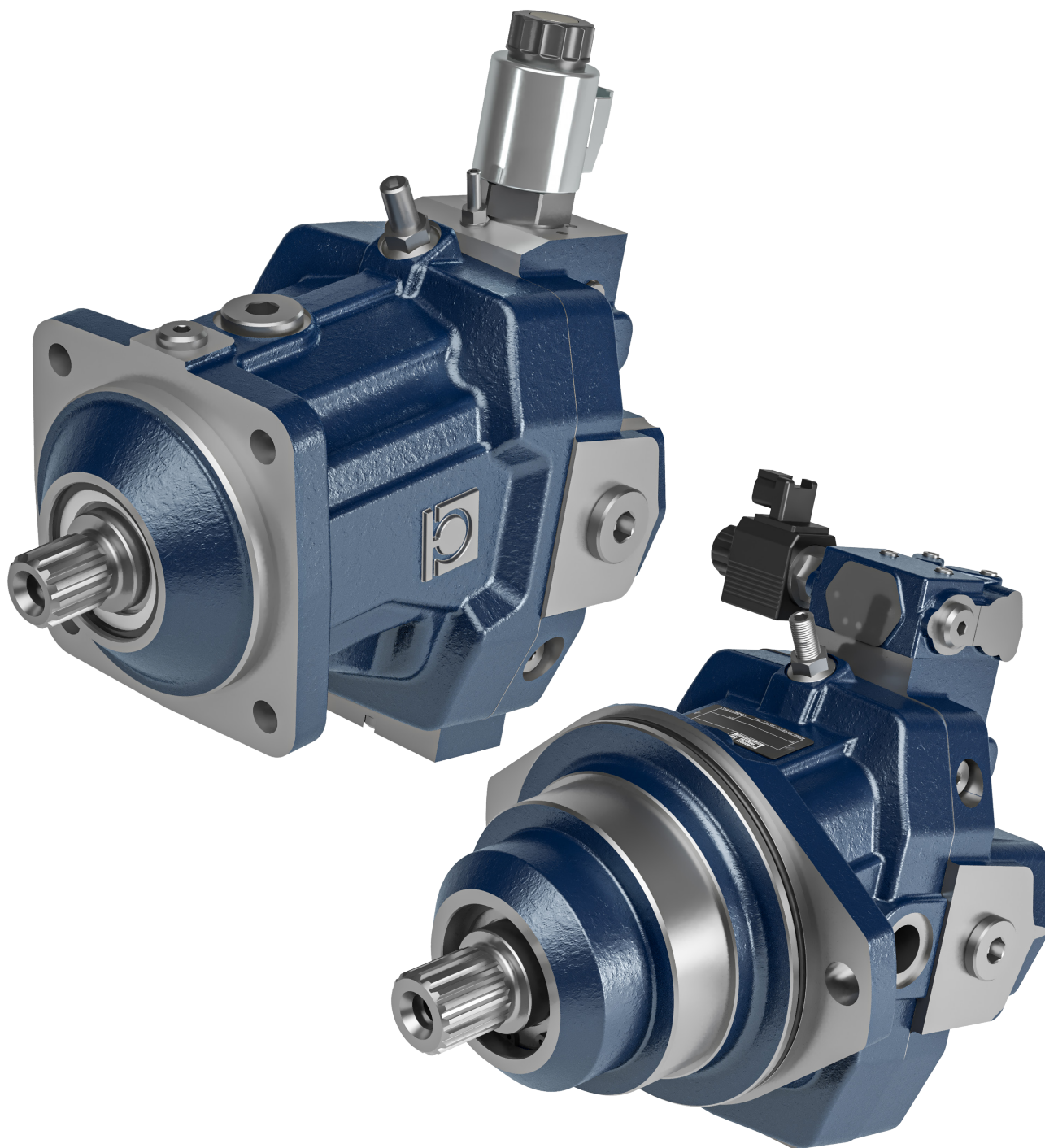


Motori a pistoni assiali ad asse inclinato



Introduzione	4
Ottimizzazione della durata dei cuscinetti nelle applicazioni con forze radiali	5
Applicazioni di forze assiali all'albero	7
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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

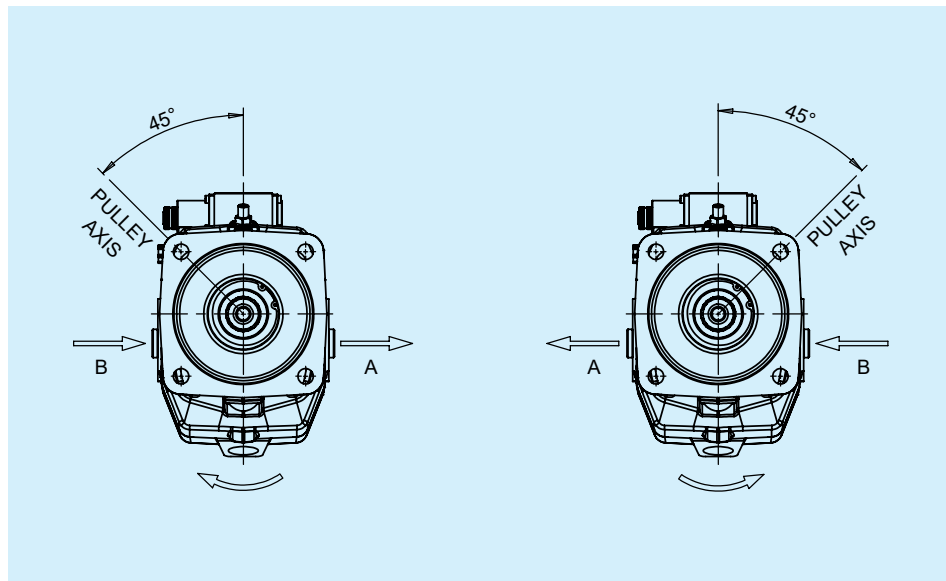
La direzione di applicazione del carico radiale influenza la durata dei cuscinetti del motore.

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

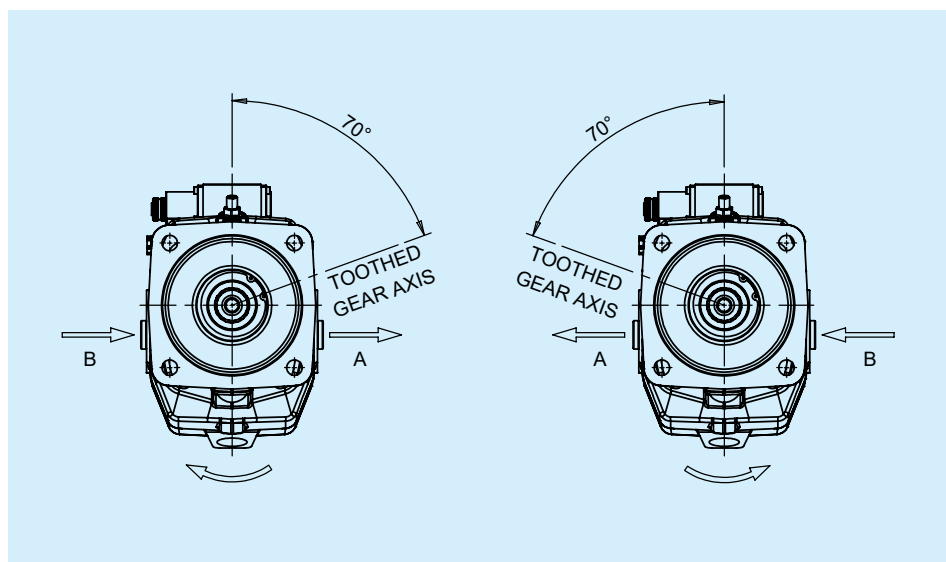
L'angolo di applicazione del carico è consigliato in funzione del senso di rotazione e del tipo di applicazione.

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

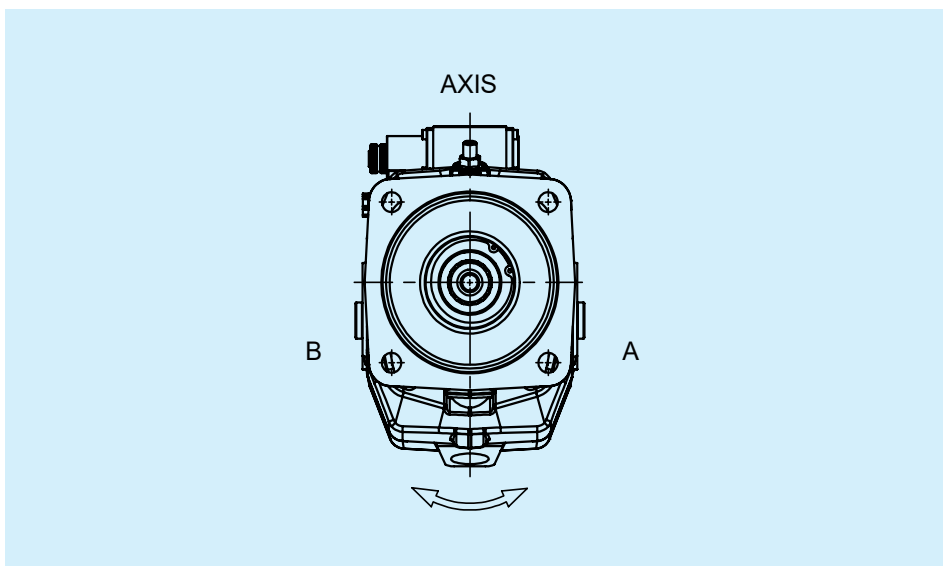
Asse puleggia



Asse ruota dentata



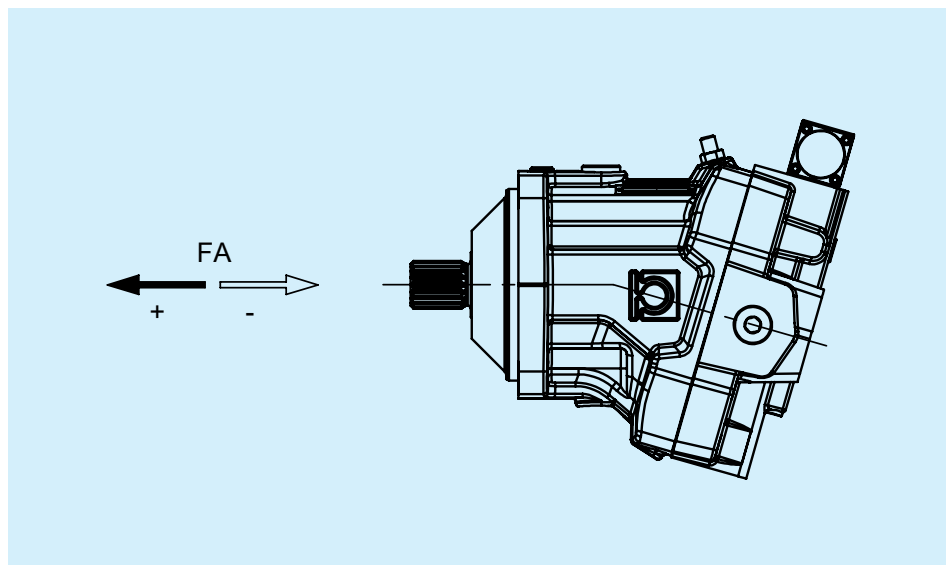
Asse per qualsiasi applicazione (senso di rotazione alternato)



Applicazioni di forze assiali all'albero

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

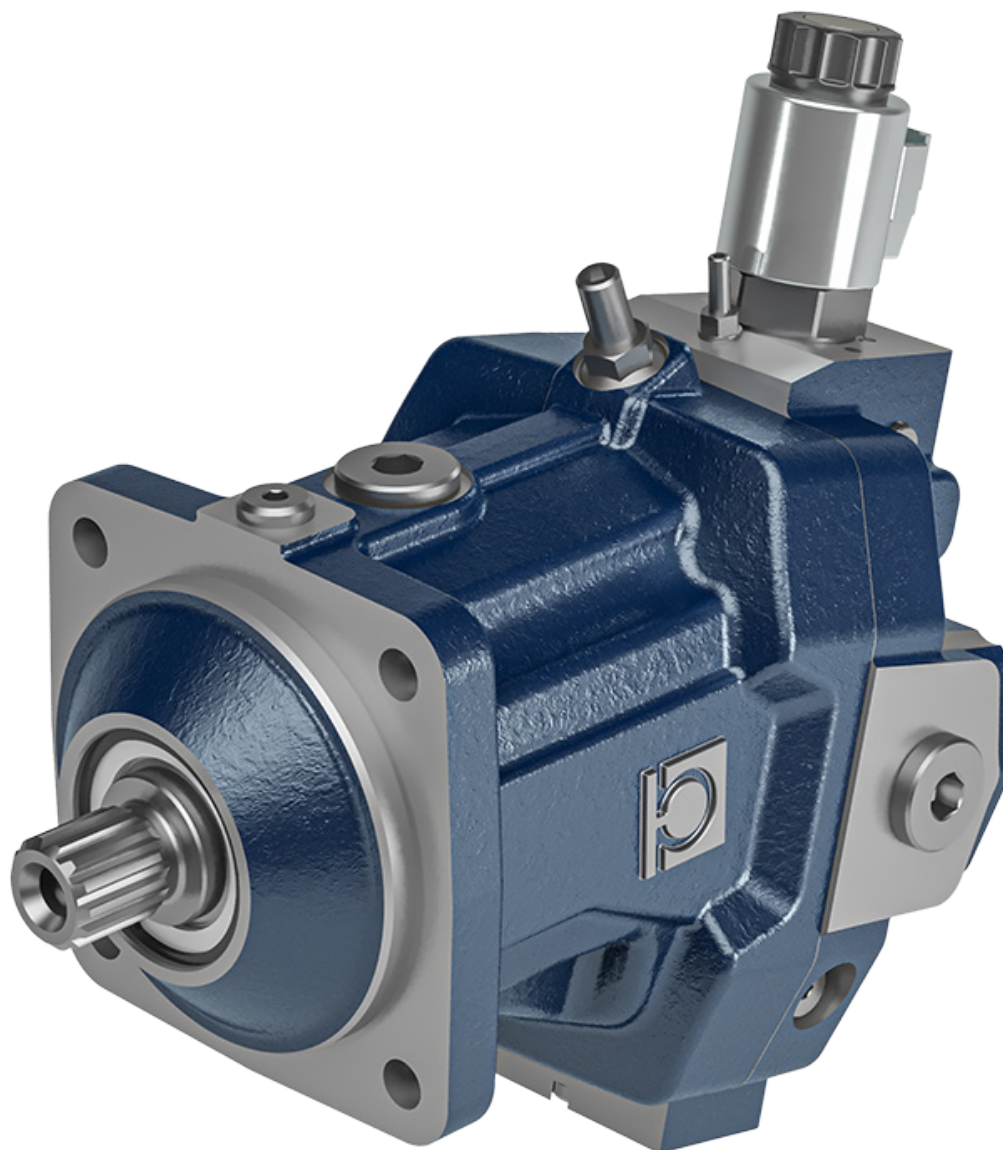
È bene evitare invece carichi assiali di trazione che possono ridurre la vita del cuscinetto principale.



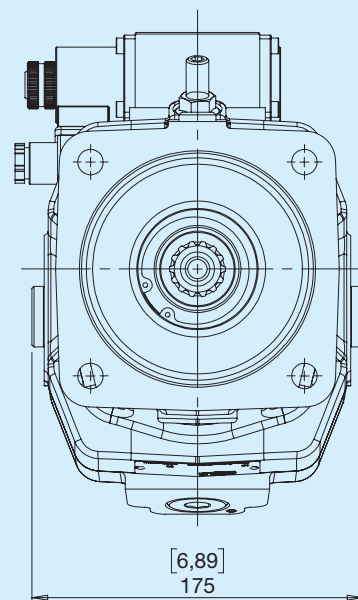
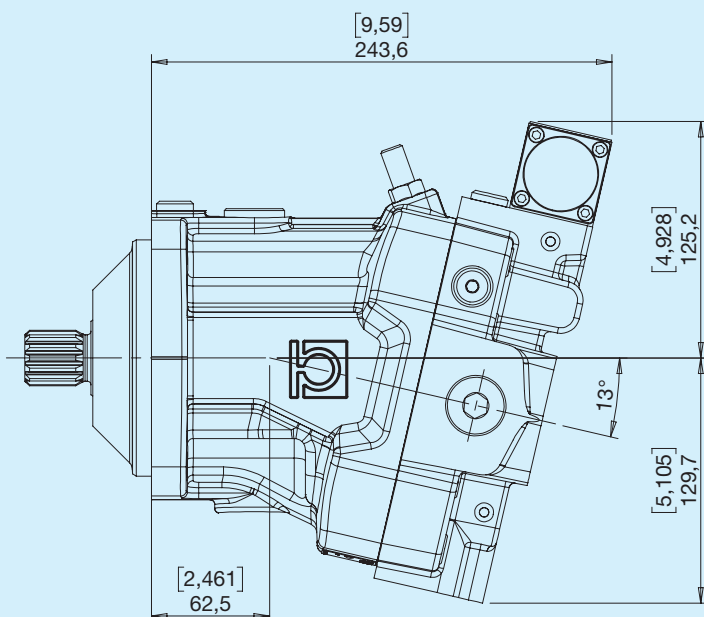
Cilindrata Teorica		Carico assiale MAX senza pressione (*)	Carico assiale MAX a pressione di esercizio
cm3	in3	N	N/bar
60	3,66	1340	118
78	4,76	1340	141
80	4,88	1840	141
108	6,59	1840	184
110	6,71	2000	184
130	7,93	2000	230
160	9,76	3650	230
200	12,2	3650	270

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

Motori a cilindrata variabile HPBA 060-078

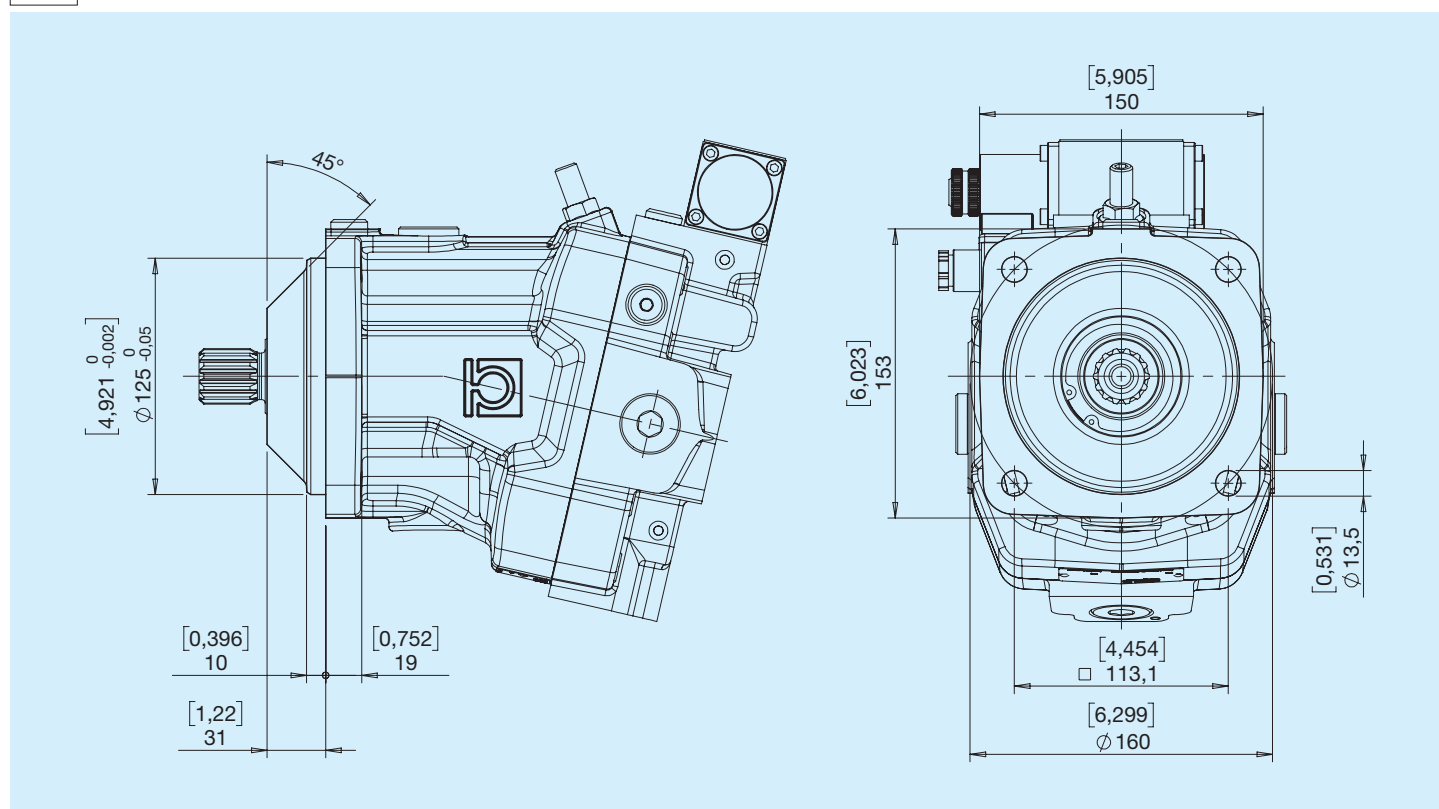


Prima di iniziare l'utilizzo leggere attentamente il documento ISTRUZIONI GENERALI D'IMPIEGO POMPE E MOTORI A PISTONI ASSIALI PER CIRCUITO CHIUSO.

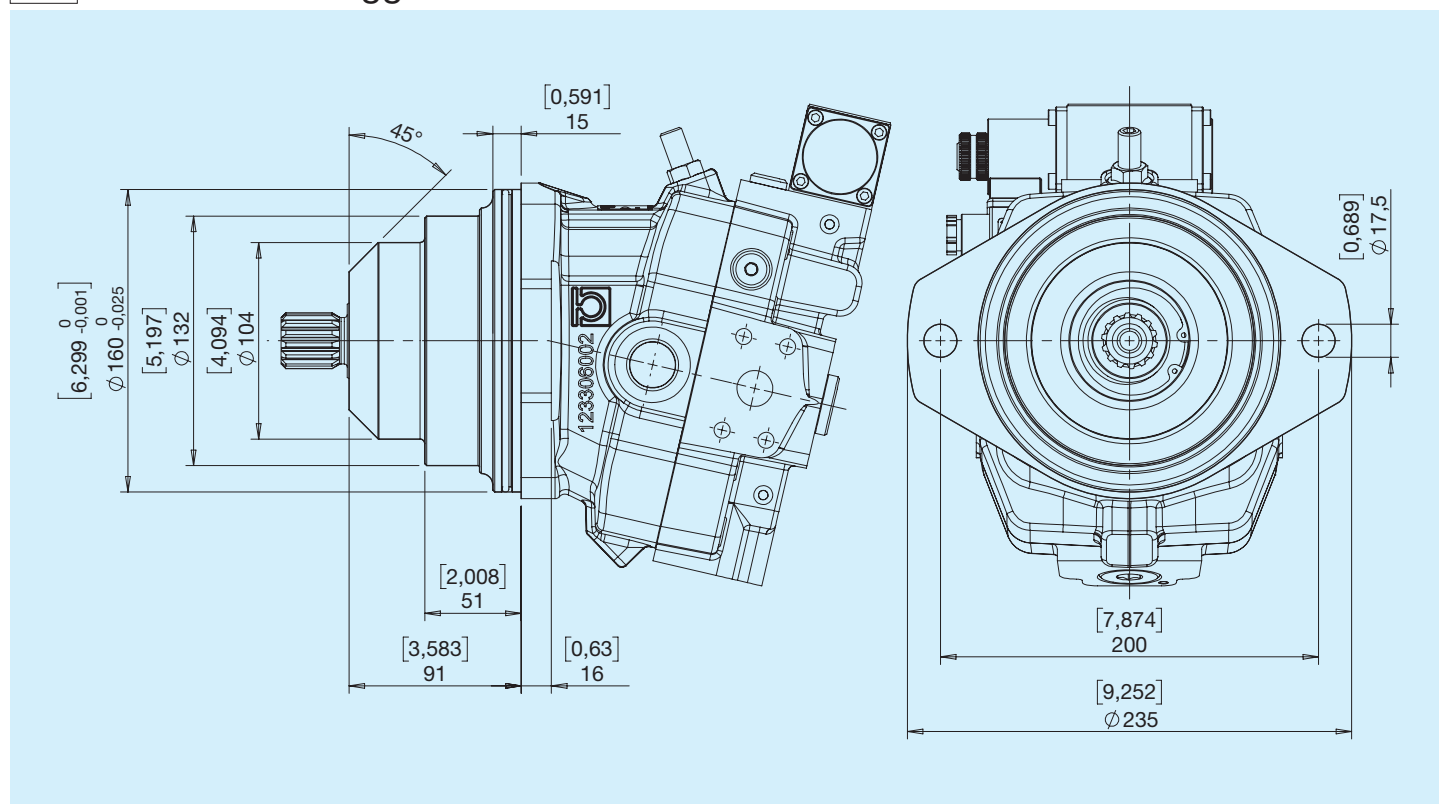


HPBA	Cilindrata teorica		Oscillante	Pressione Continua		Pressione intermittente		Pressione picco		Velocità di rotazione			Massa	
	cm ³	in ³		bar	psi	bar	psi	bar	psi	MAX (max V) min ⁻¹	MAX (min V) min ⁻¹	MIN min ⁻¹	kg	lbs
060	60	3,66	25	380	5510	400	5800	450	6525	4400	5500	500	28	62
078	78	4,76	26	300	4350	350	5075	400	5800	4400	5500	500	28,7	63

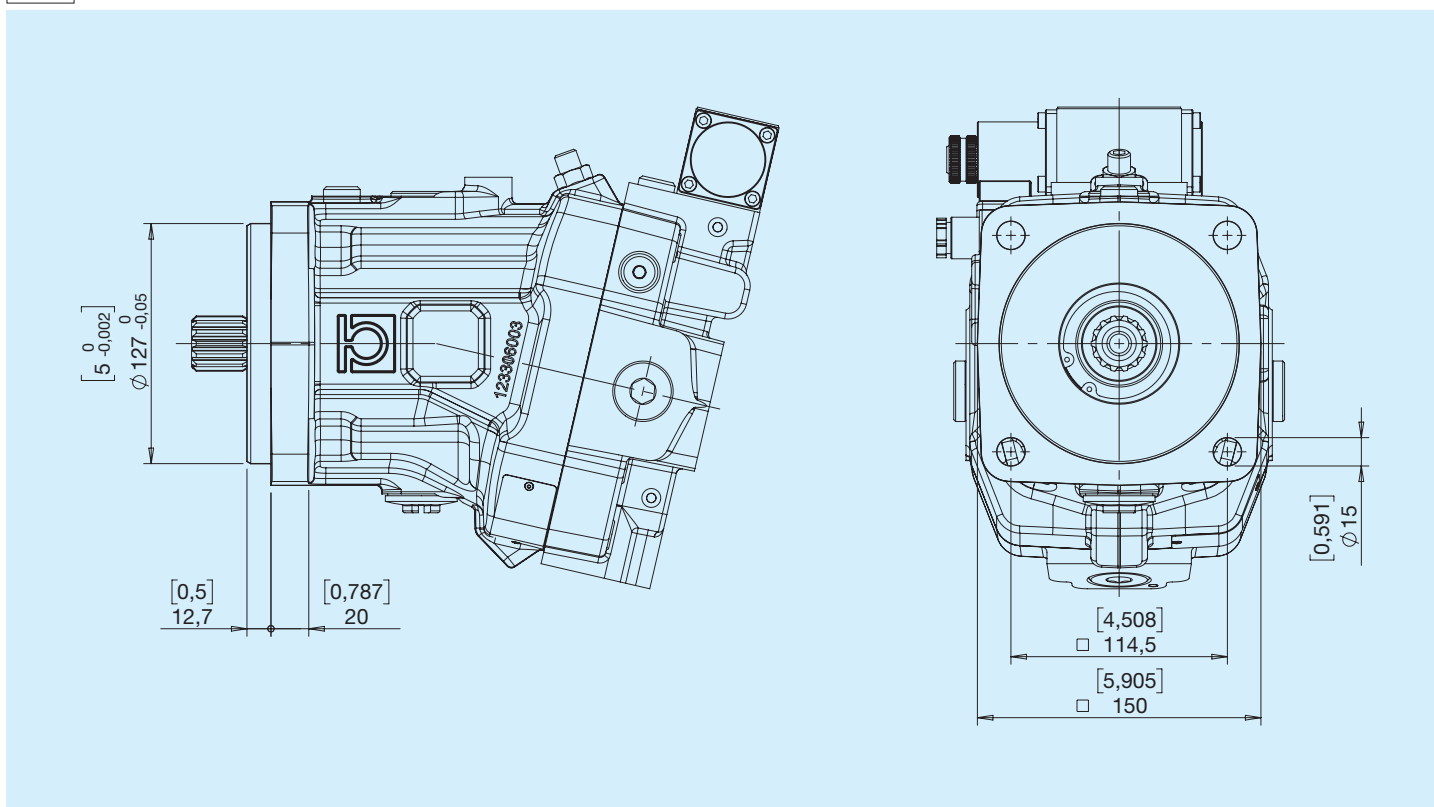
I ISO 4 fori standard



P ISO 2 fori centraggio a cartuccia

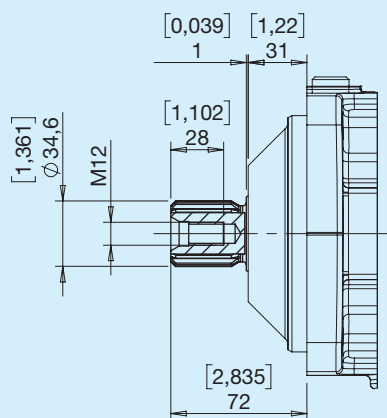


S SAE C



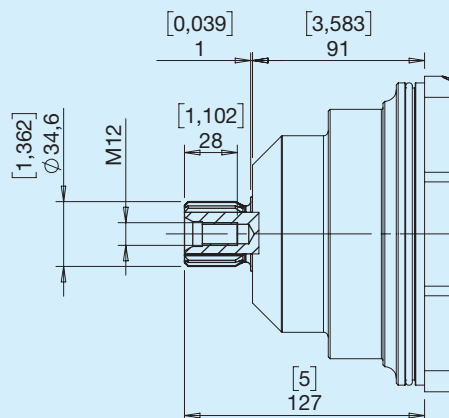
C DIN 5480 W35x2x30x16

Versione ISO 4 fori standard



Coppia Max 860 Nm

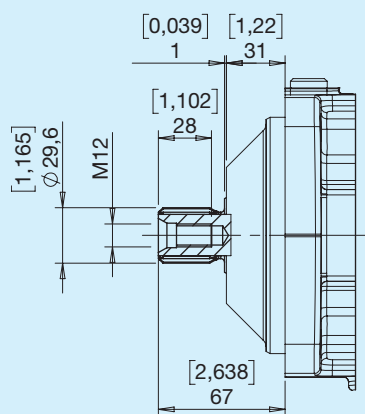
Versione ISO 2 fori a cartuccia



Coppia Max 860 Nm

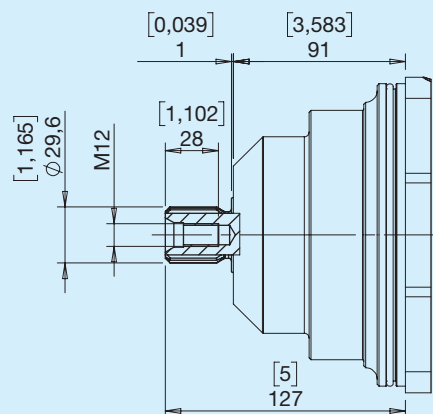
1 DIN 5480 W30x2x30x14

Versione ISO 4 fori standard



Coppia Max 590 Nm

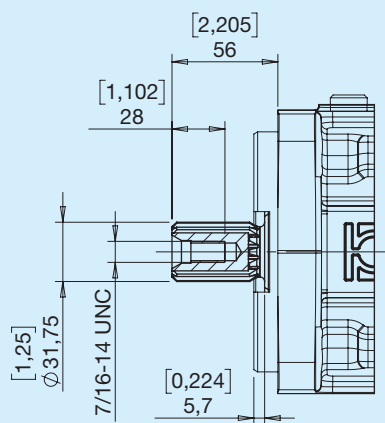
Versione ISO 2 fori a cartuccia



Coppia Max 590 Nm

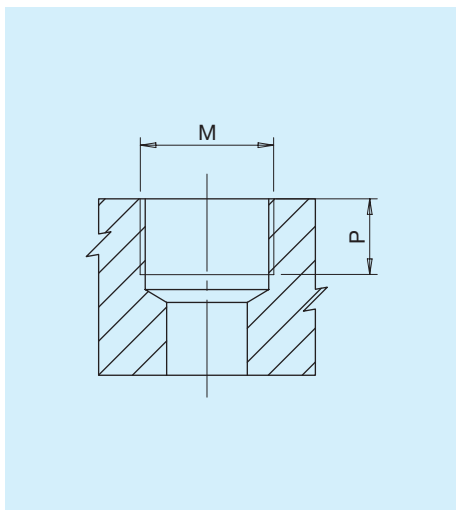
3 SAE 14T 12/24 DP

Versione SAE C



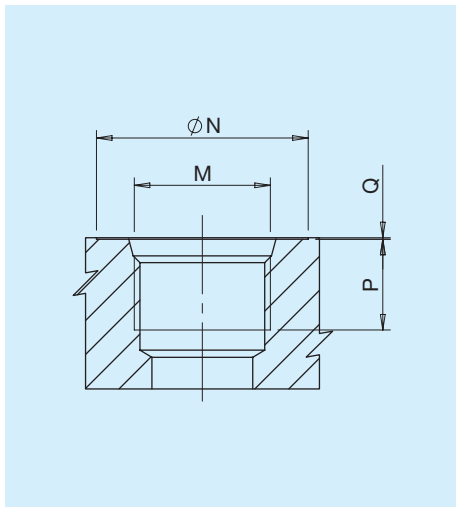
Coppia Max 850 Nm

Tipo G



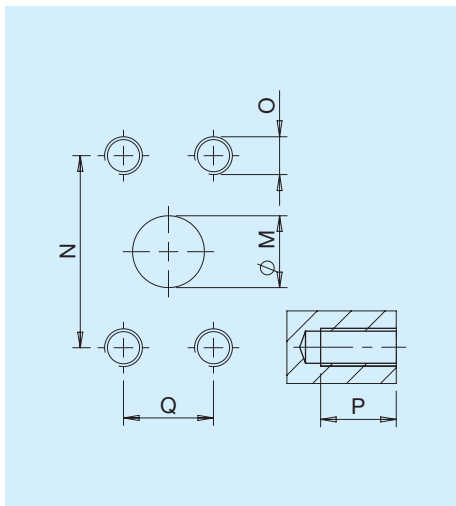
Tipo	M		P	
		Nm	mm	in
G2	Port ISO 1179-1 - G 1/4	17	8	0,31
G6	Port ISO 1179-1 - G 3/4	90	19	0,75
G7	Port ISO 1179-1 - G 1	160	19	0,75

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

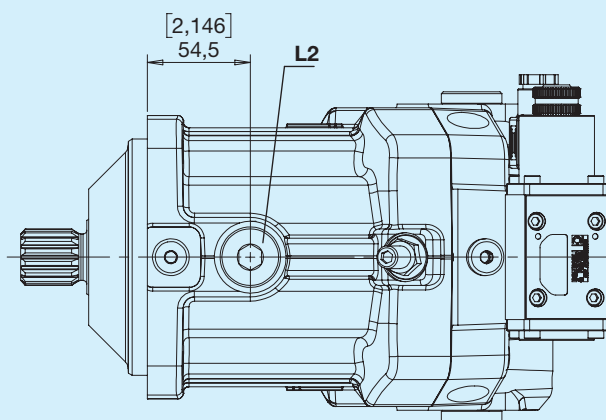
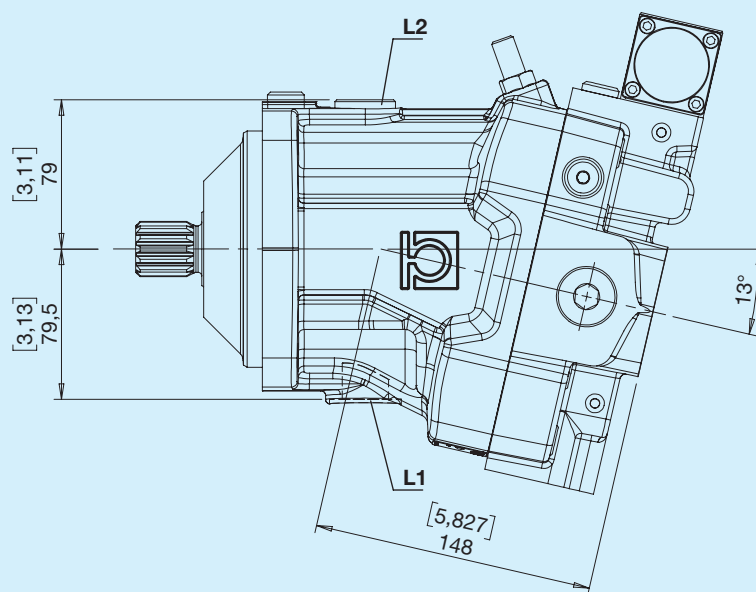
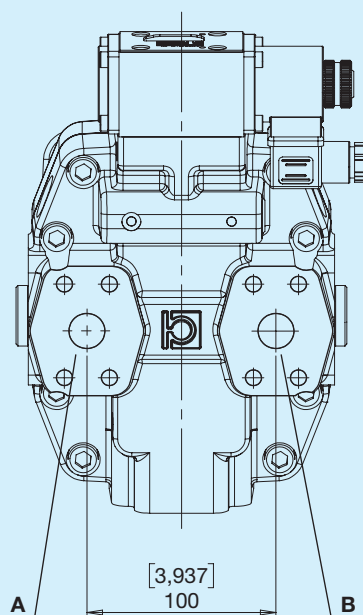


Tipo	M		N		Q		P		O
	mm	in	mm	in	mm	in	mm	in	
N6	19	0,75	50,8	2	23,8	0,94	17	0,67	M10 38

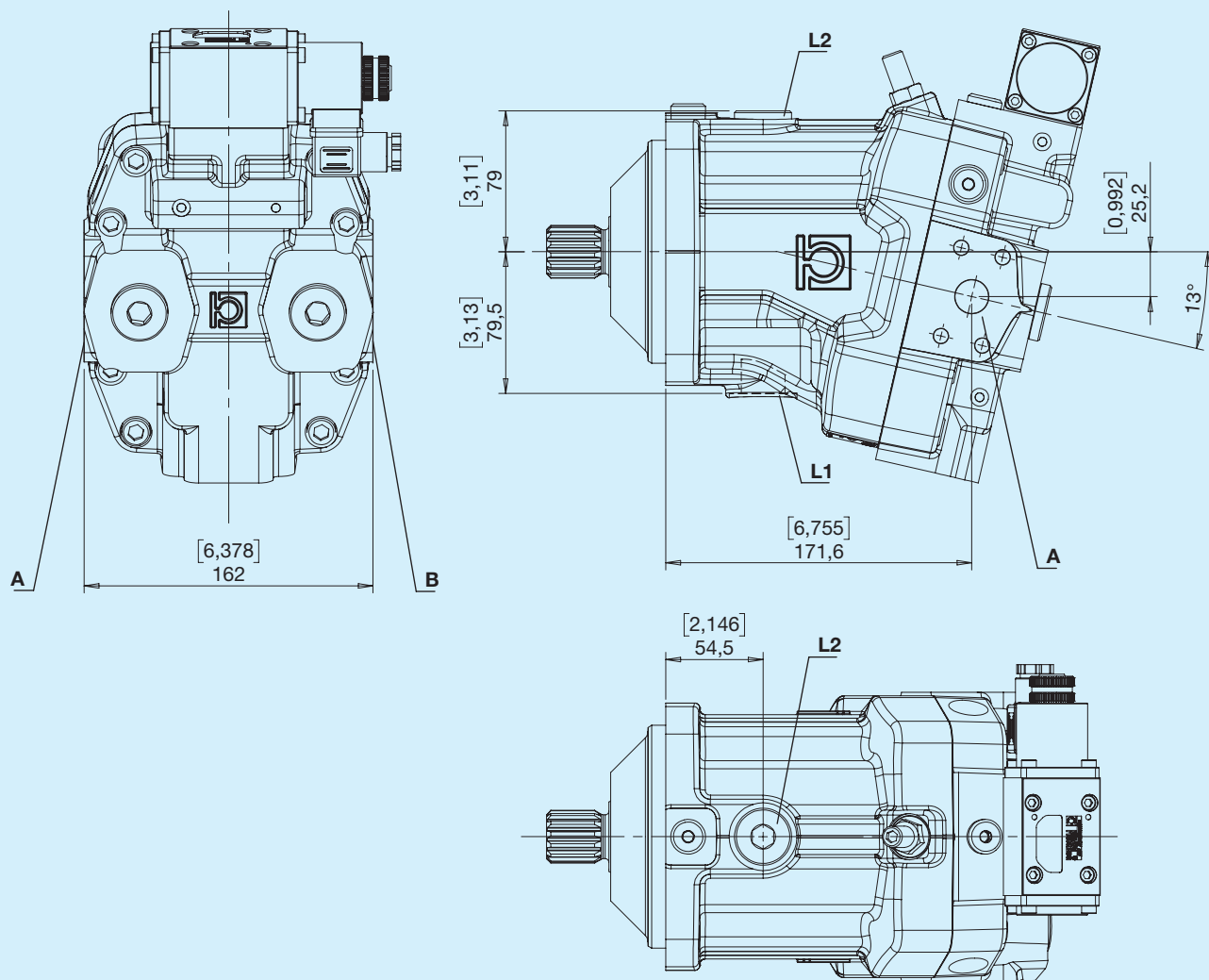
Combinazioni

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

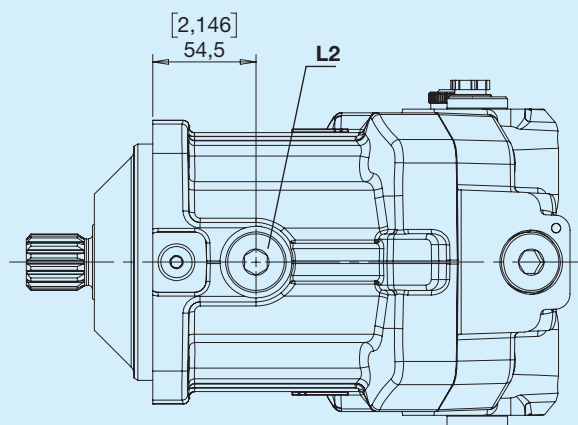
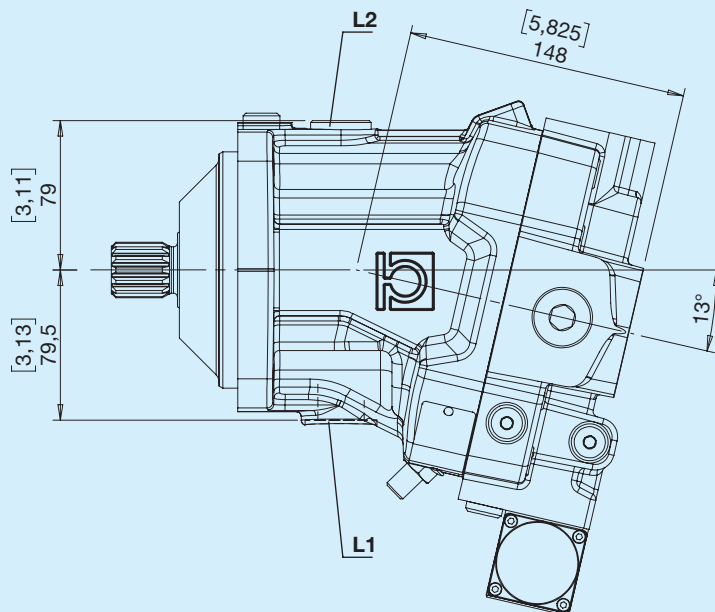
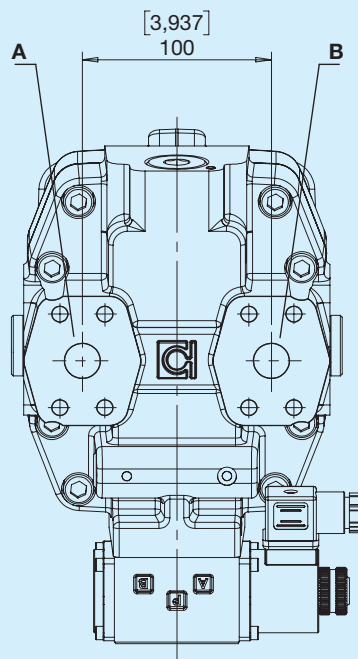
P Posteriori



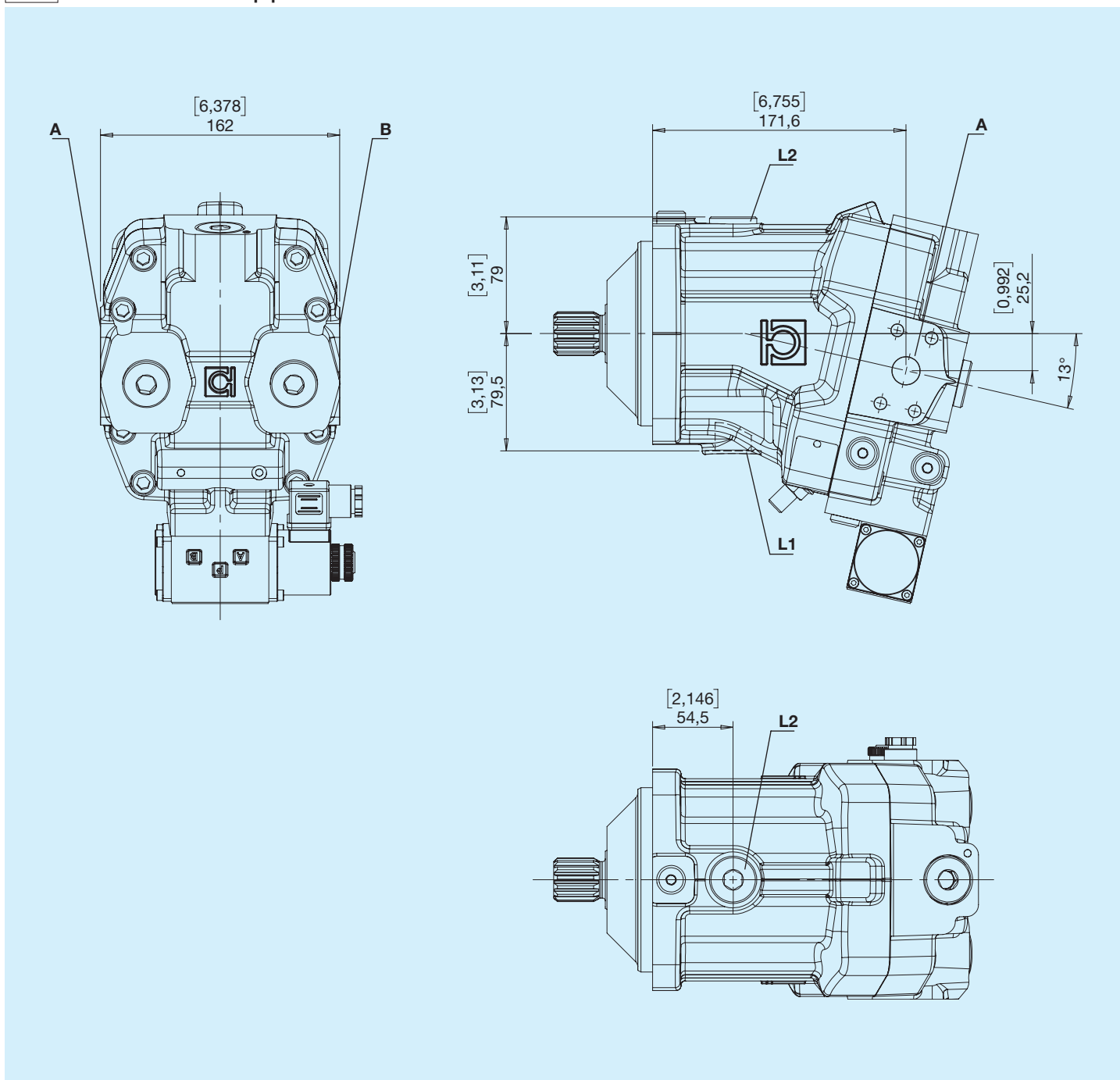
L Lateralì contrapposte



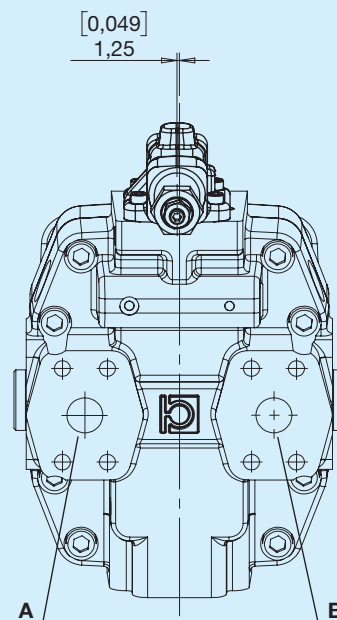
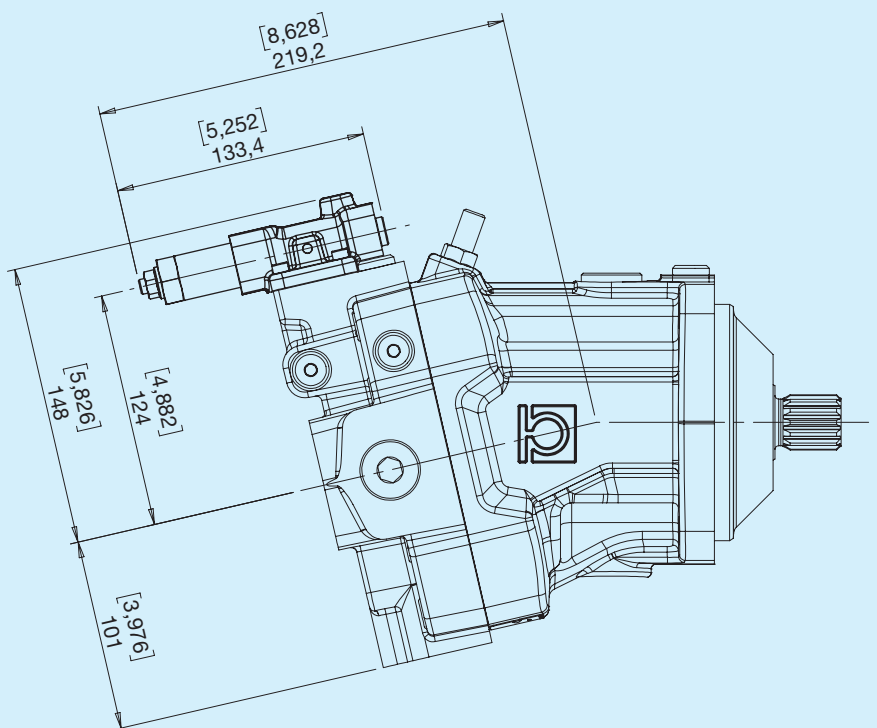
Y Posteriori distributore ruotato



J Lateralì contrapposte distributore ruotato

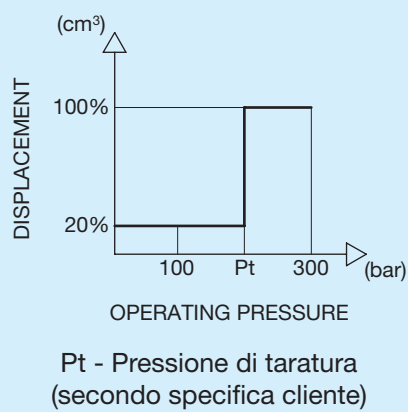


A Idraulico automatico ON/OFF

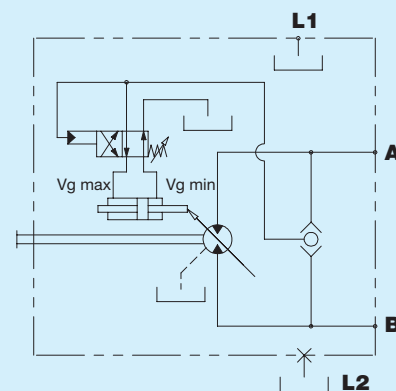


Ingresso	Rotazione
A	Sinistra
B	Destra

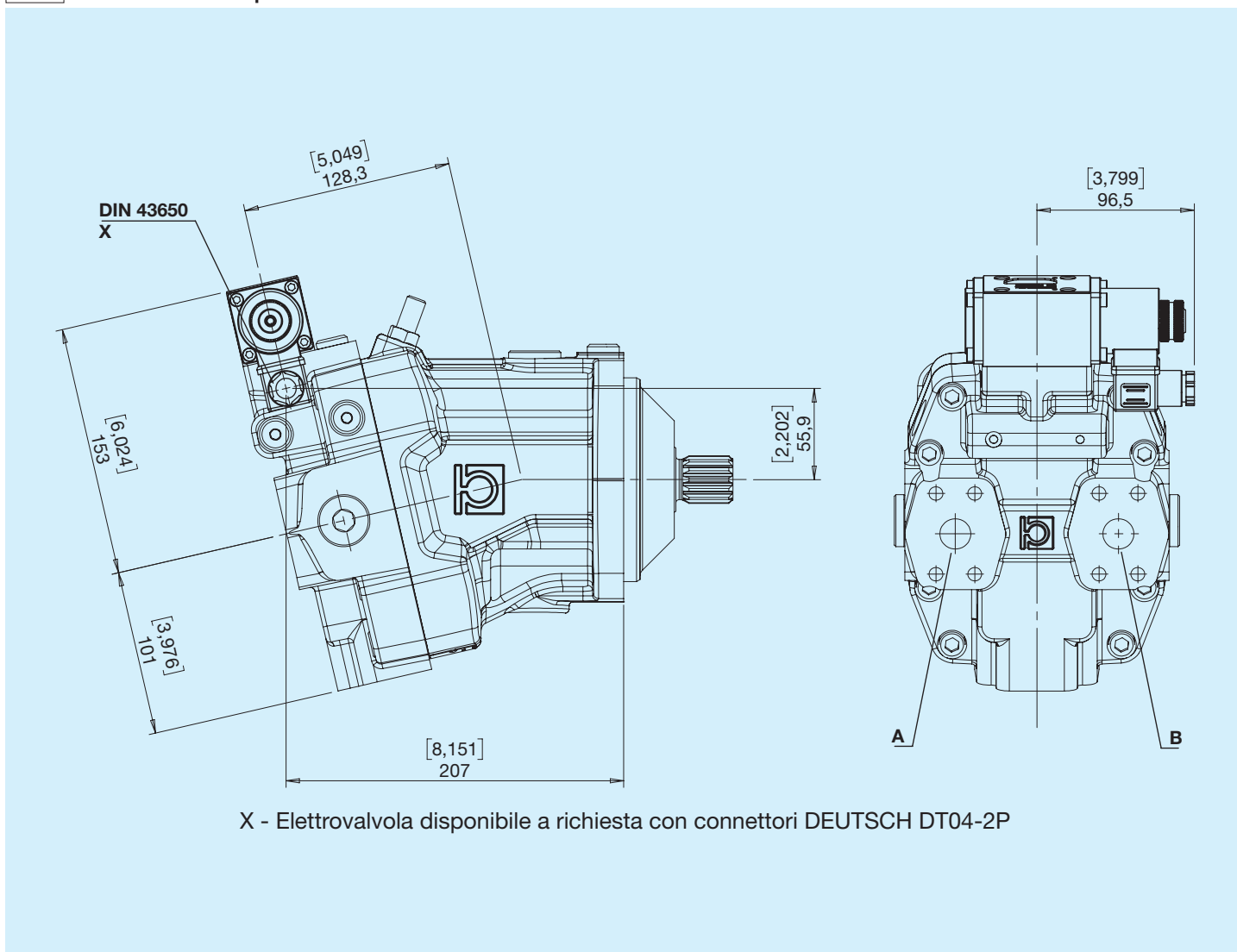
Pilotaggio



Schema idraulico

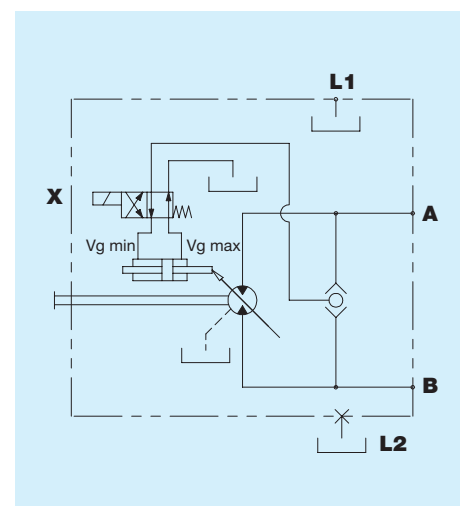


E Elettrico a 2 posizioni 12V

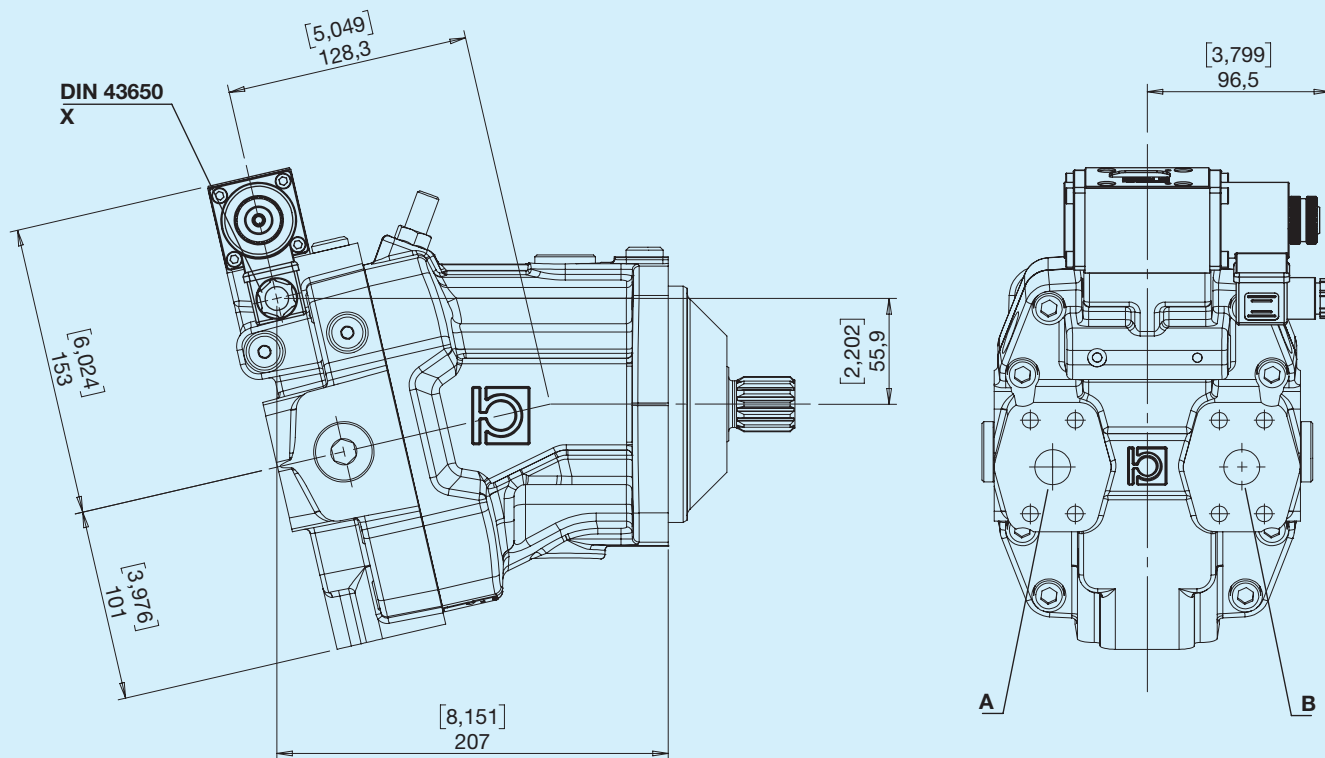


Ingresso	Rotazione
A	Sinistra
B	Destra

Schema idraulico



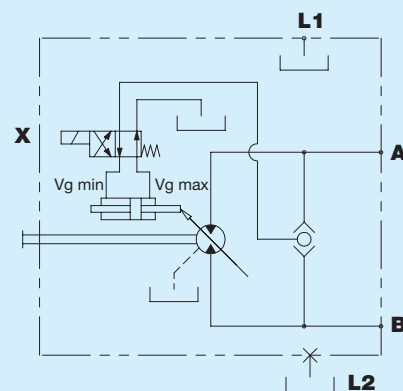
F Elettrico a 2 posizioni 24V



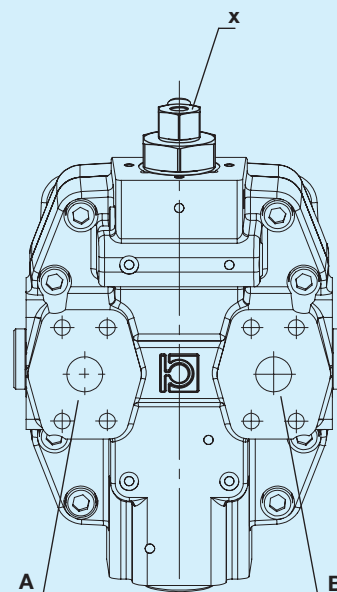
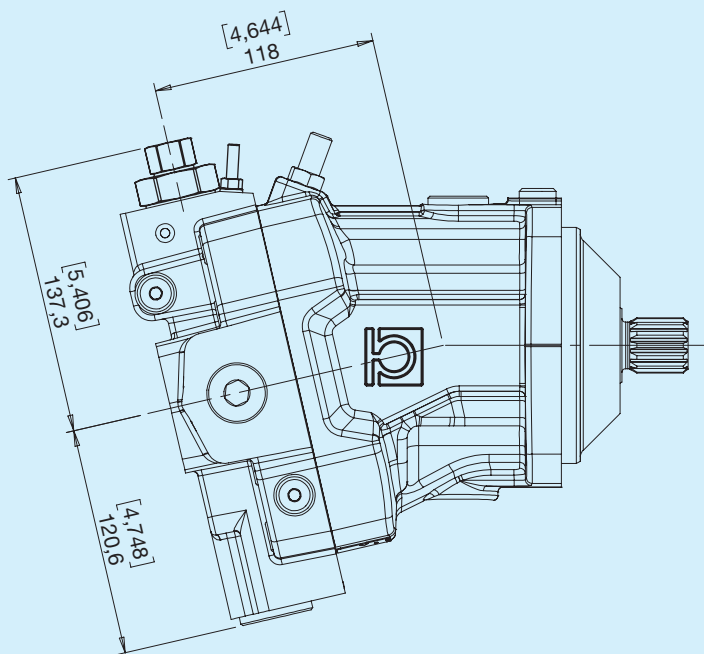
X - Elettrovalvola disponibile a richiesta con connettori DEUTSCH DT04-2P

Ingresso	Rotazione
A	Sinistra
B	Destra

Schema idraulico



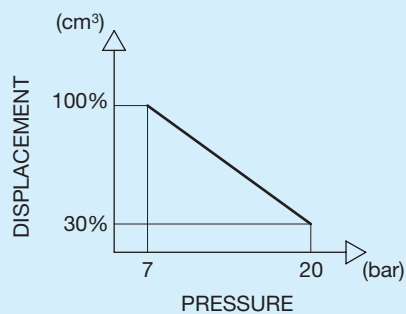
G Idraulico proporzionale



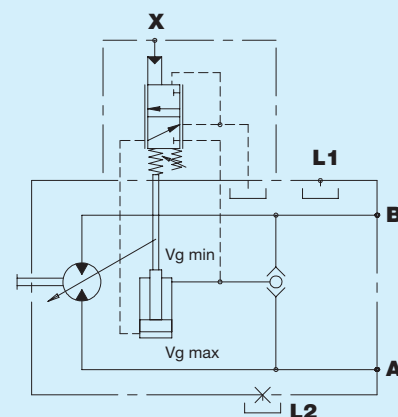
X - Pilotaggio G1/8

Pilotaggio

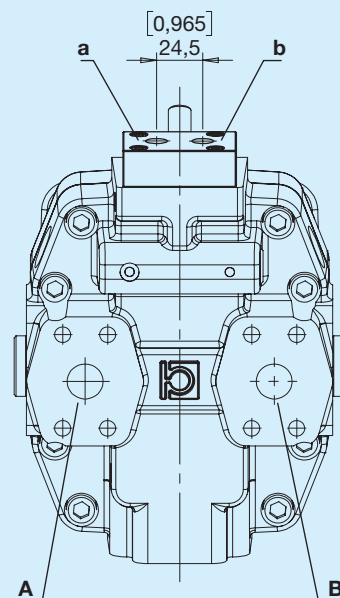
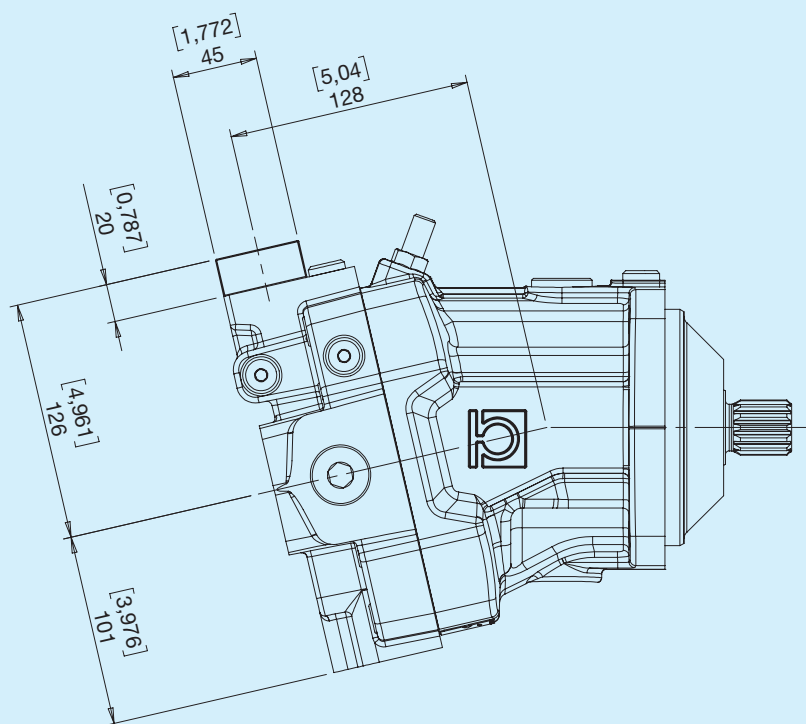
Ingresso	Rotazione
A	Sinistra
B	Destra



Schema idraulico

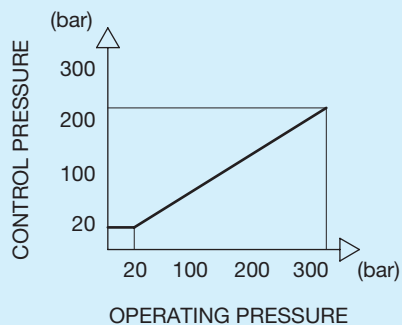


H Idraulico diretto a 2 posizioni

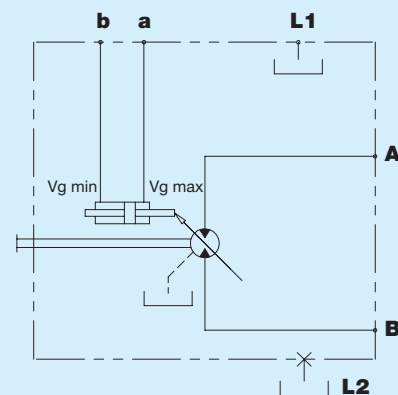


Pilotaggio

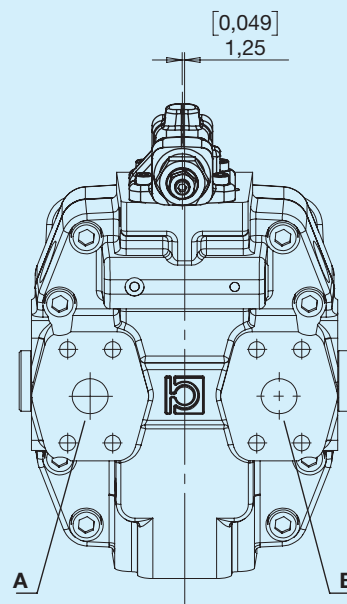
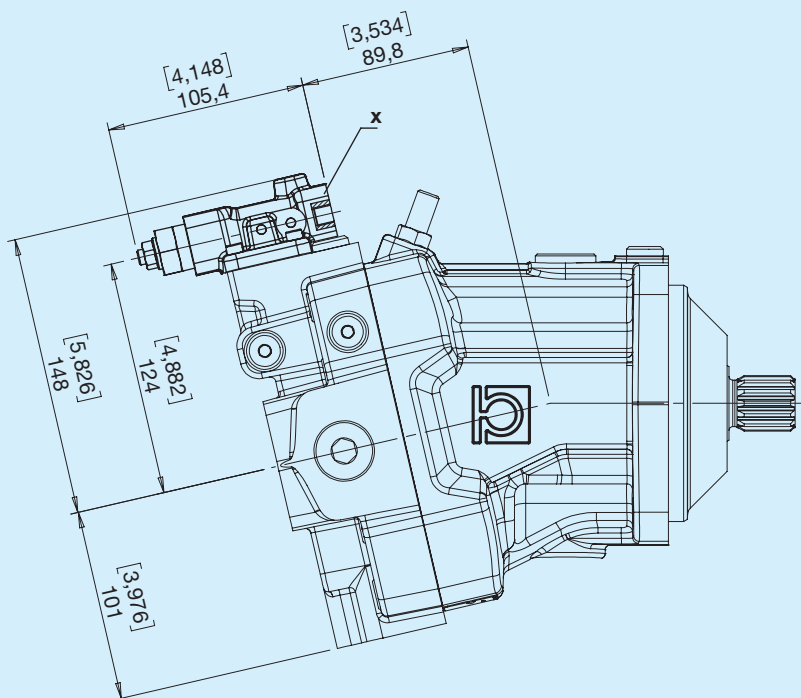
Ingresso	Rotazione
A	Sinistra
B	Destra



Schema idraulico



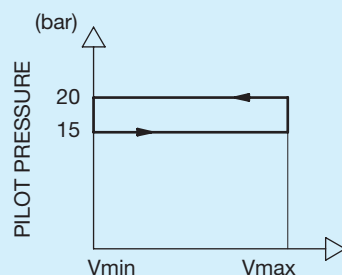
K Idraulico a 2 posizioni a bassa pressione



X - Pilotaggio G1/8

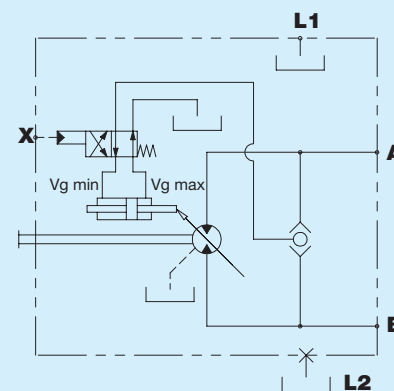
Ingresso	Rotazione
A	Sinistra
B	Destra

Diagramma

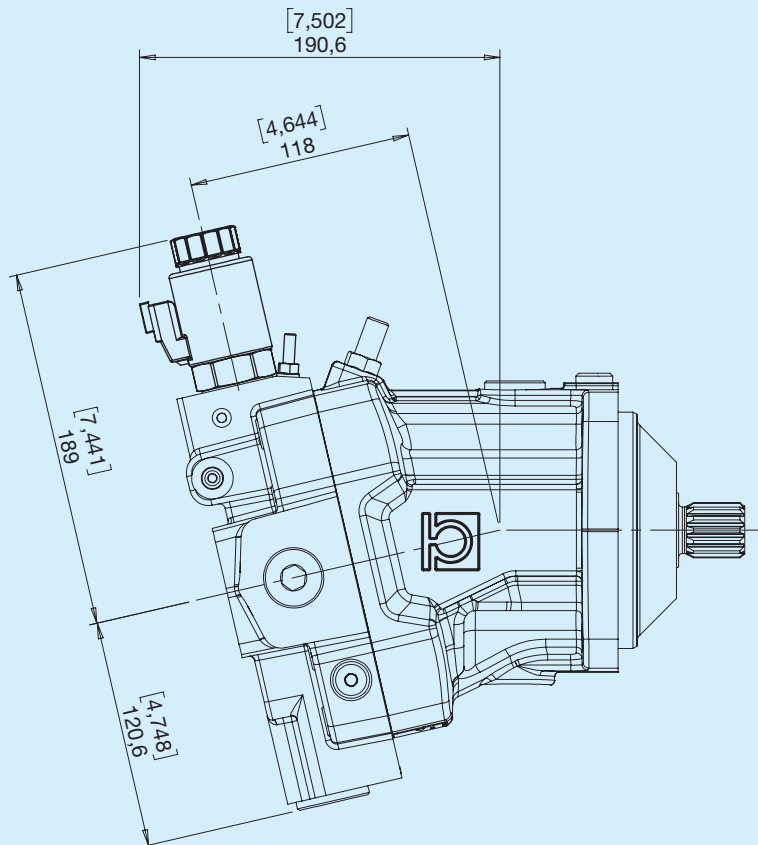


Normalmente il motore è in cilindrata massima. Applicando una pressione esterna sul pilotaggio, si ottiene la variazione di cilindrata alla minima. Per una corretta variazione della cilindrata attenersi ai valori di pilotaggio riportati nel diagramma.

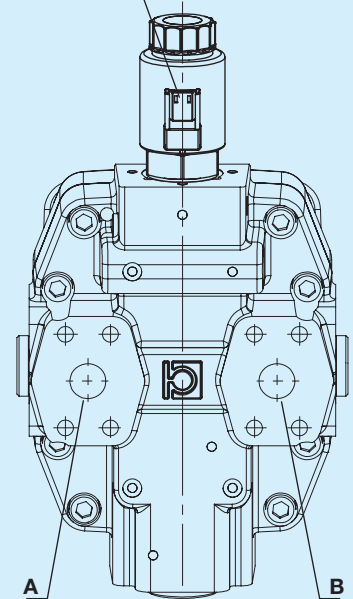
Schema idraulico



O Elettrico proporzionale retroazionato 12V



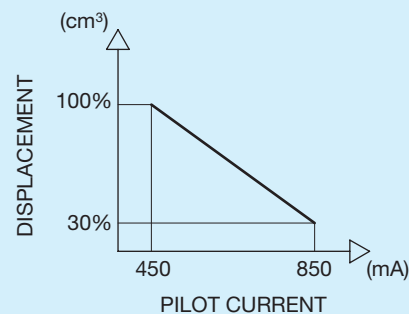
DEUTSCH DT04-2P
X



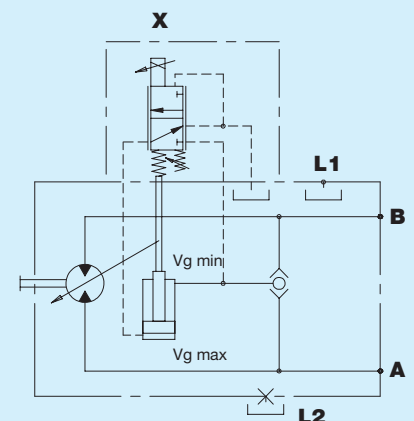
X - Elettrovalvola

Ingresso	Rotazione
A	Sinistra
B	Destra

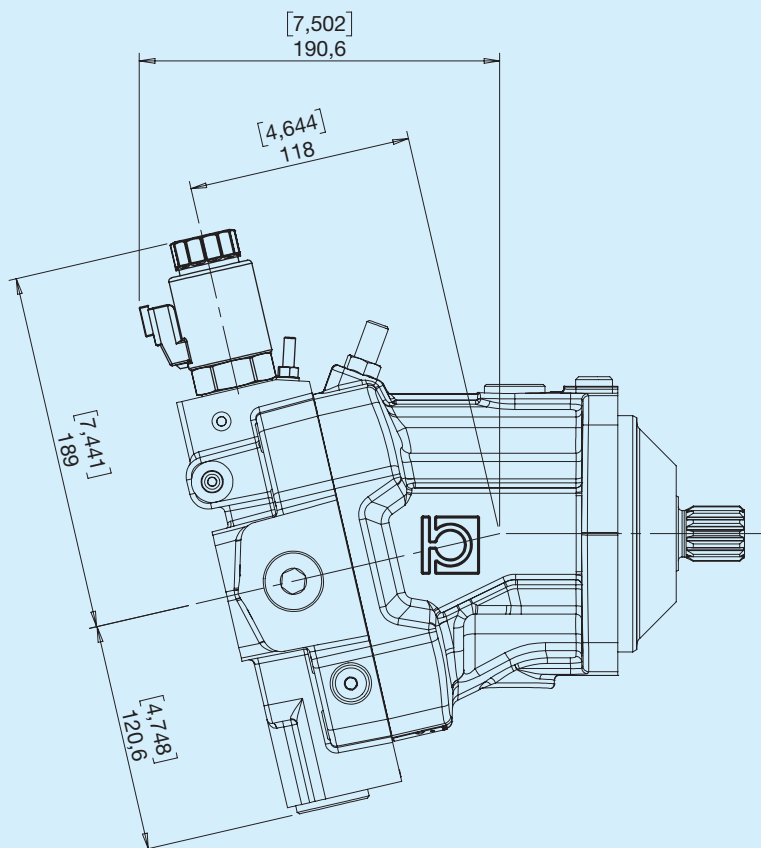
Pilotaggio



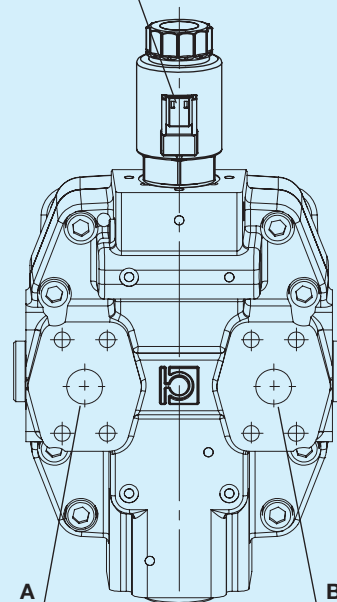
Schema idraulico



V Elettrico proporzionale retroazionato 24V



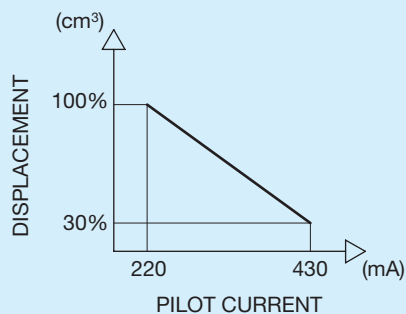
DEUTSCH DT04-2P
X



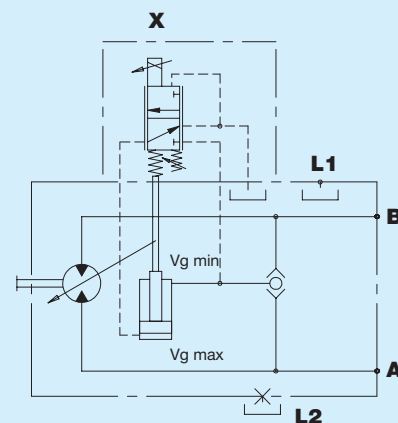
X - Elettrovalvola

Pilotaggio

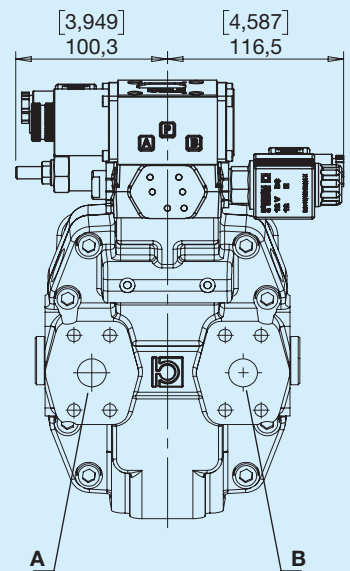
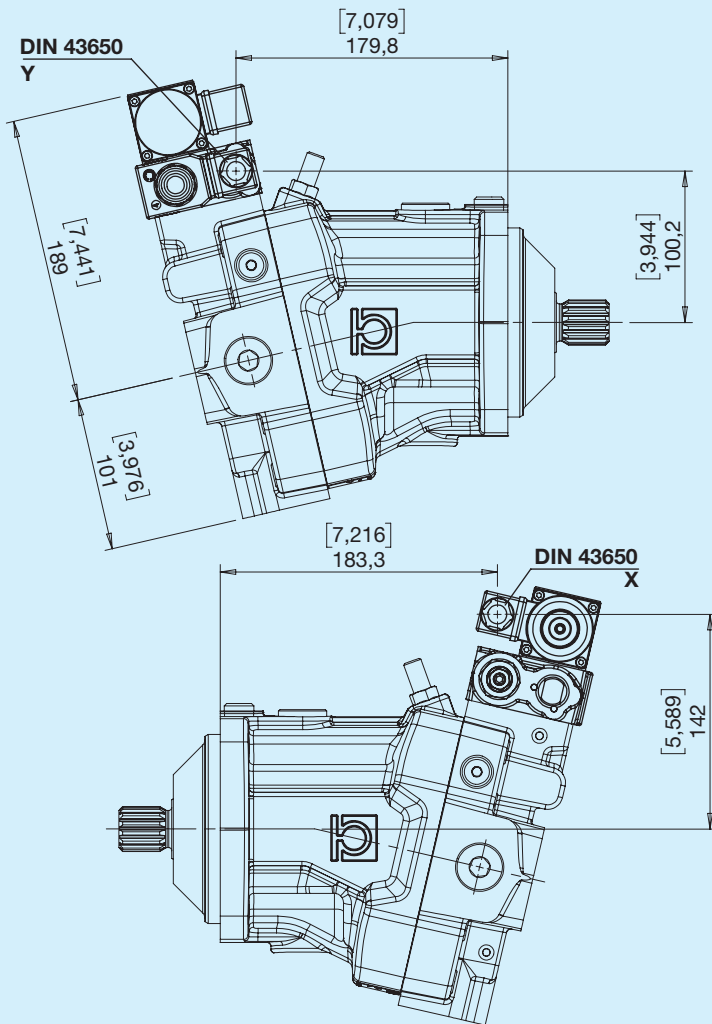
Ingresso	Rotazione
A	Sinistra
B	Destra



Schema idraulico

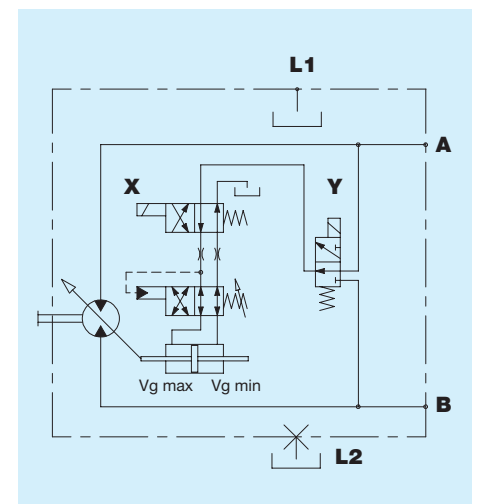


R Elettrico ON/OFF con pressure override e selettore di canale

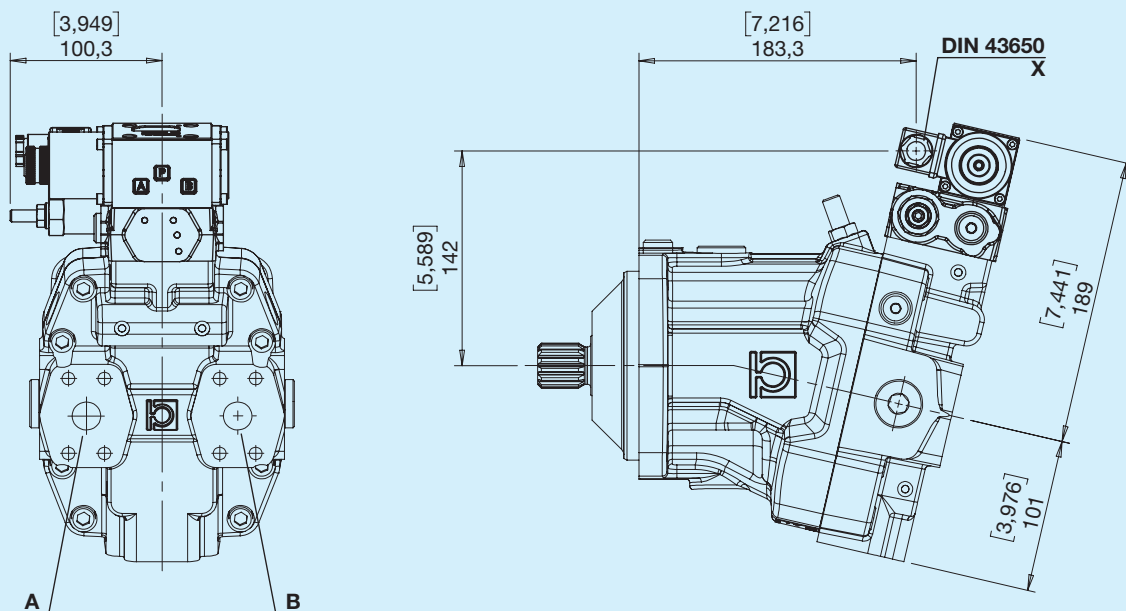


Ingresso	Rotazione
A	Sinistra
B	Destra

Schema idraulico

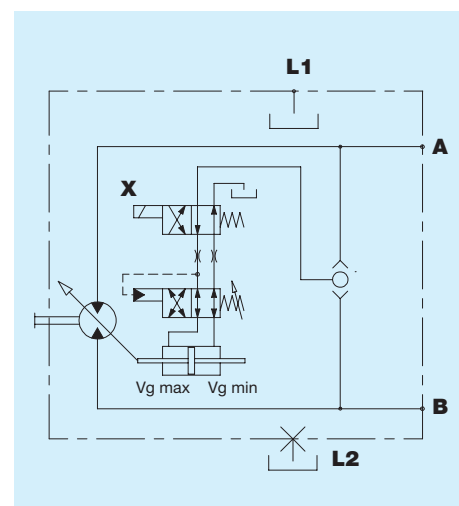


U Elettrico ON/OFF con pressure override

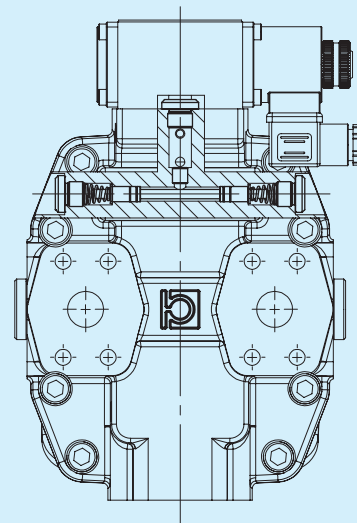
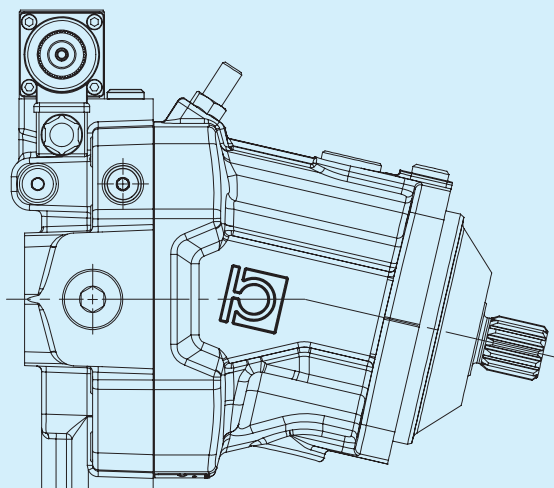


Ingresso	Rotazione
A	Sinistra
B	Destra

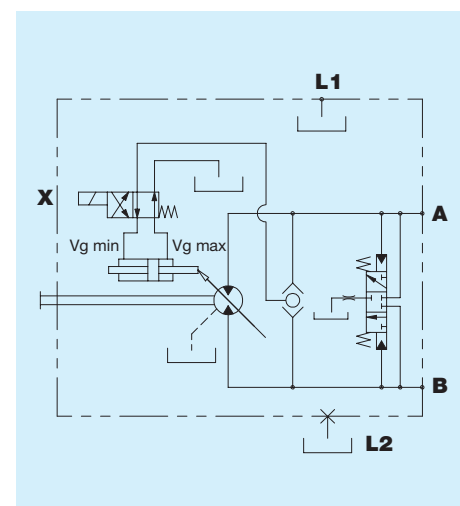
Schema idraulico



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



Schema idraulico

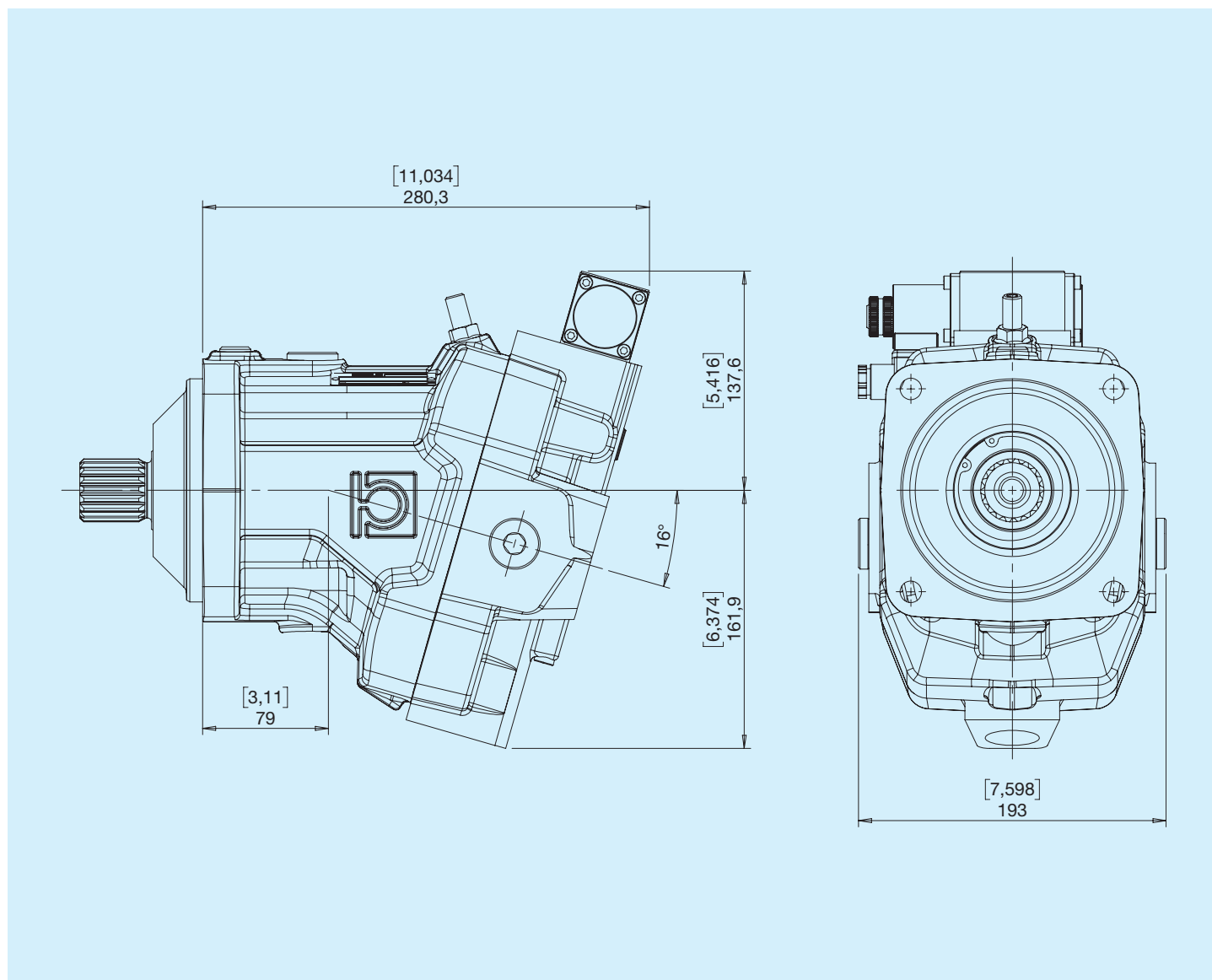


HPBA			1	2	3	4	5	6	7	8	9	10	11	12	13	14																					
1 2 3			Cilindrata standard																																		
060														078																							
4 5			Cilindrata minima																																		
...																																					
6			Flange																																		
I			ISO 4 fori standard					P					ISO 2 fori centraggio a cartuccia					S					SAE C														
7			Alberi																																		
C			DIN 5480 W35x2x30x16					1					DIN 5480 W30x2x30x14					3					SAE 14T 12/24 DP														
8			Tipo bocche																																		
G			Gas					U					Unf					N					Gas-Ingresso/Uscita SAE					M					Unf-Ingresso/Uscita SAE				
9			Posizione bocche																																		
P			Posteriori					Y					Posteriori distributore ruotato (non disponibile per comandi O - V - G)					J					Lateralì contrapposte distributore ruotato (non disponibile per comandi O - V - G)														
L			Lateralì contrapposte																																		
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					C					Verniciatura					V					Valvola di flussaggio														
12 13 14			Esecuzioni speciali																																		
...																																					

Motori a cilindrata variabile HPBA 080-108

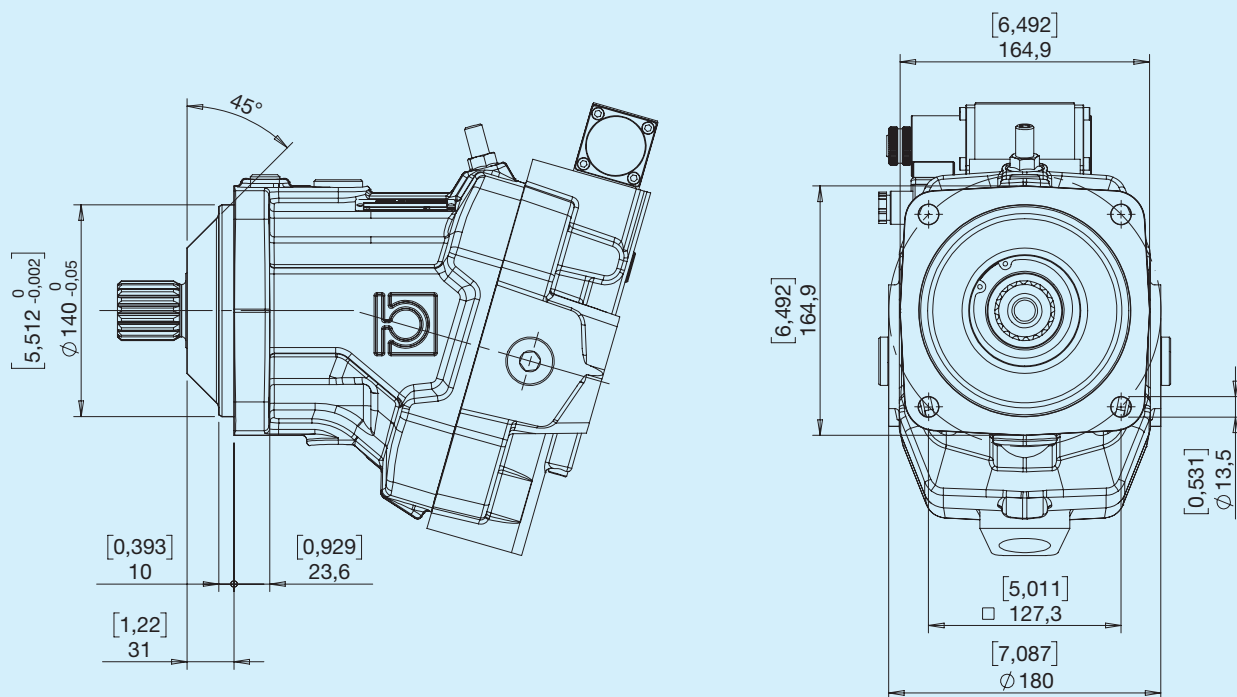


Prima di iniziare l'utilizzo leggere attentamente il documento ISTRUZIONI GENERALI D'IMPIEGO POMPE E MOTORI A PISTONI ASSIALI PER CIRCUITO CHIUSO.

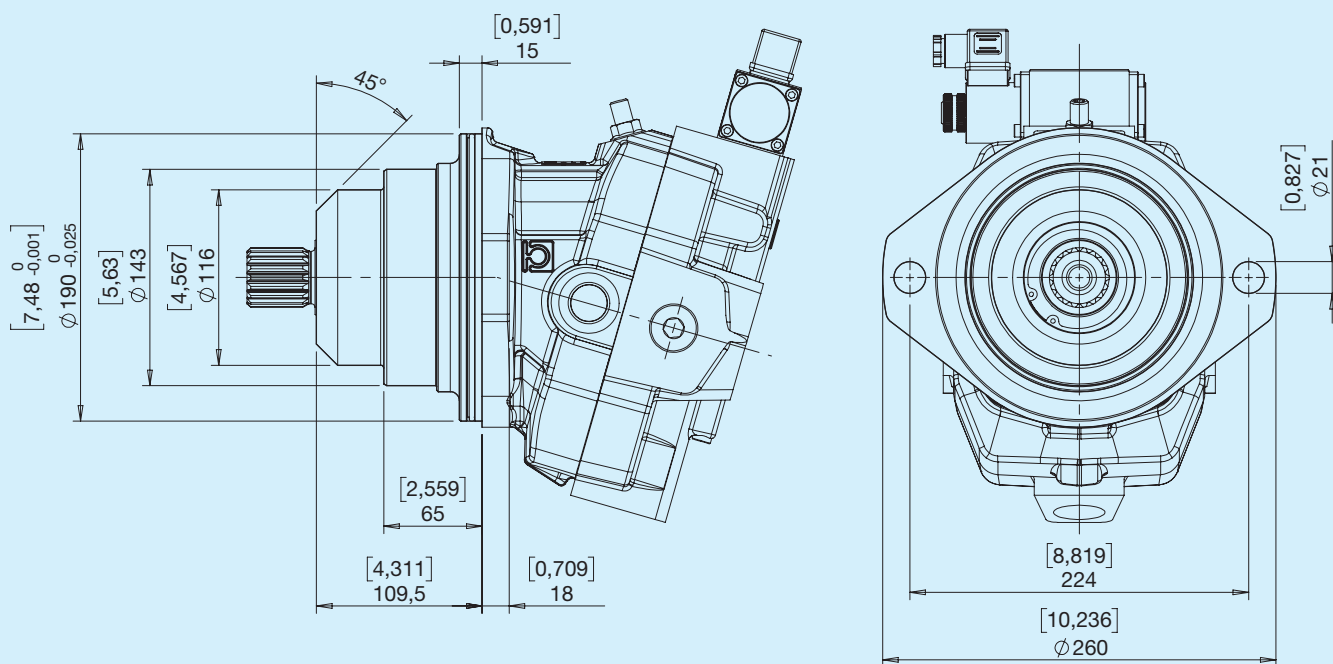


HPBA	Cilindrata teorica		Oscillante °	Pressione Continua		Pressione intermittente		Pressione picco		Velocità di rotazione			Massa	
	cm ³	in ³		bar	psi	bar	psi	bar	psi	MAX (max V) min ⁻¹	MAX (min V) min ⁻¹	MIN min ⁻¹	kg	lbs
080	80	4,88	25	350	5075	400	5800	450	6525	3200	5000	500	38	84
108	108	6,59	25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

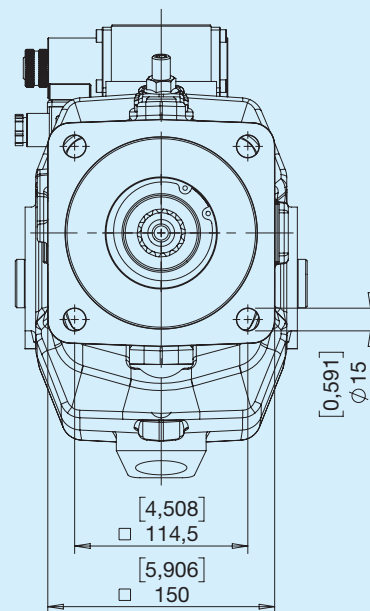
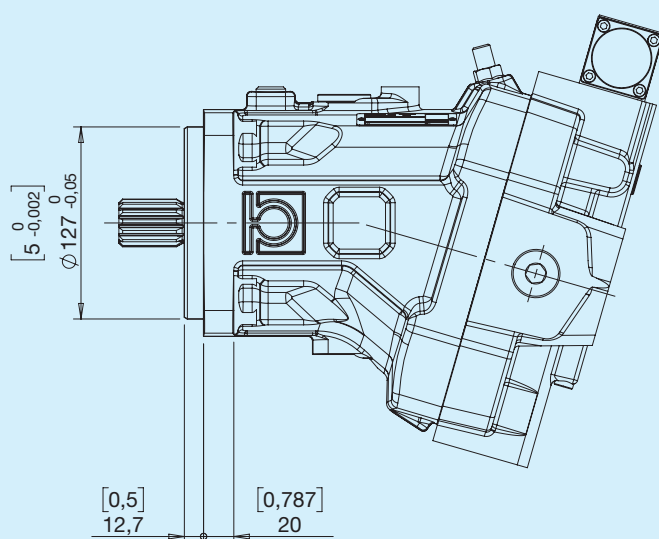
I ISO 4 fori standard



P ISO 2 fori centraggio a cartuccia

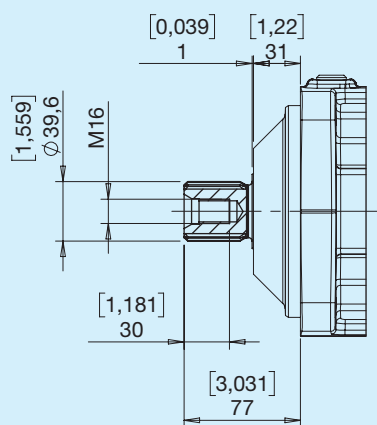


S SAE C



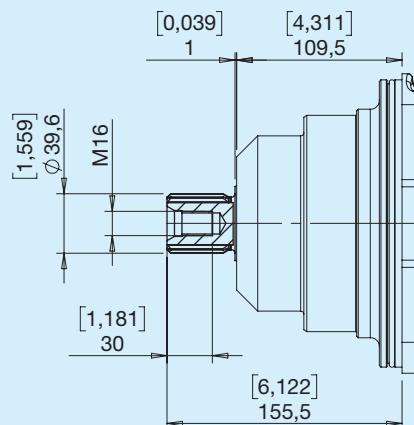
B DIN 5480 W40x2x30x18

Versione ISO 4 fori standard



Coppia Max 1310 Nm

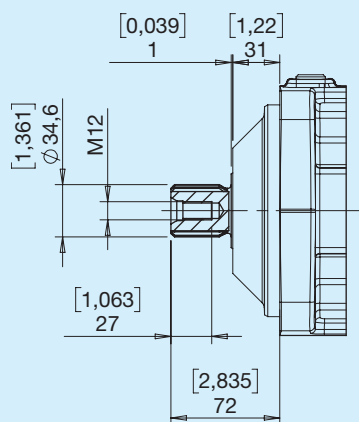
Versione ISO 2 fori a cartuccia



Coppia Max 1310 Nm

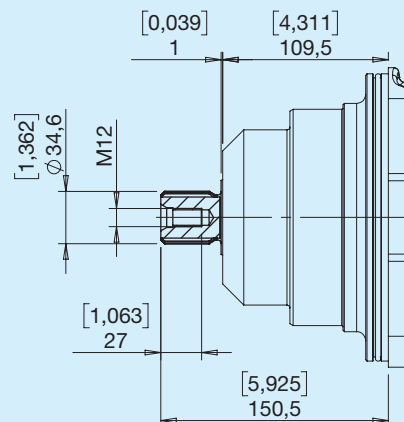
C DIN 5480 W35x2x30x16

Versione ISO 4 fori standard



Coppia Max 860 Nm

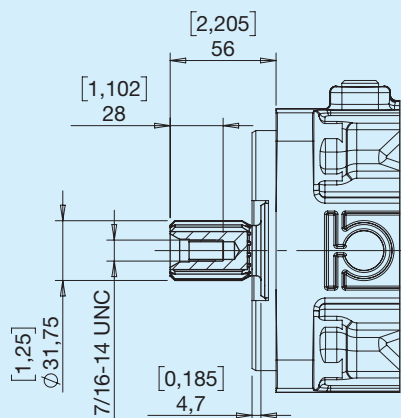
Versione ISO 2 fori a cartuccia



Coppia Max 860 Nm

3 SAE 14T 12/24 DP

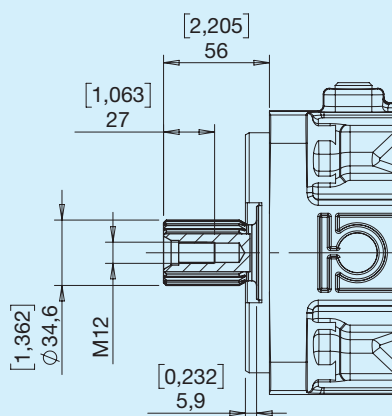
Versione SAE C



Coppia Max 850 Nm

7 SAE 21T 16/32 DP

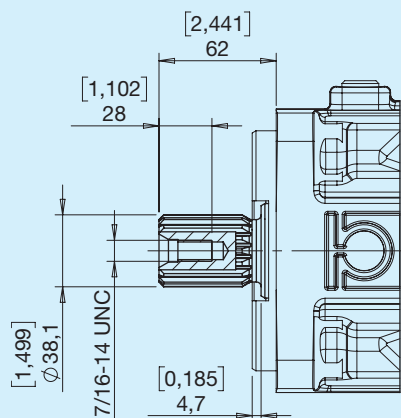
Versione SAE C



Coppia Max 1100 Nm

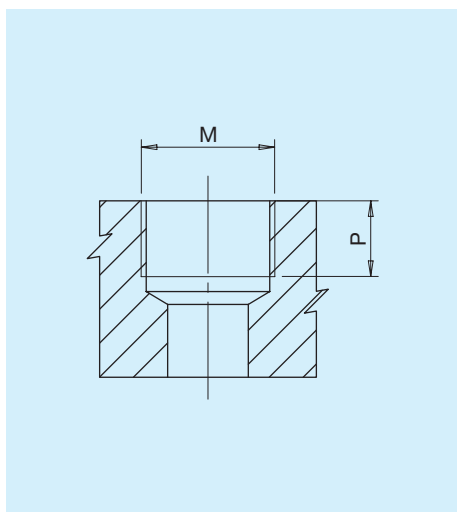
Z SAE 17T 12/24 DP

Versione SAE C



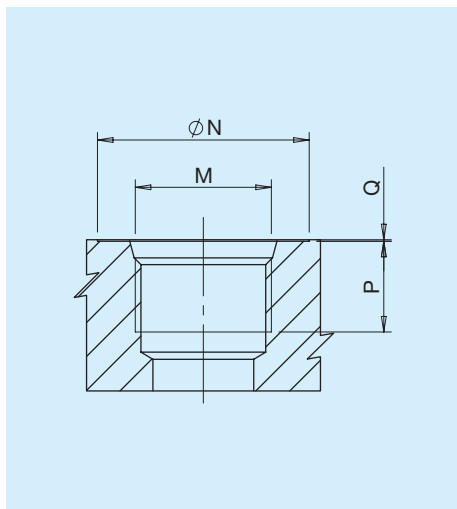
Coppia Max 1350 Nm

Tipo G



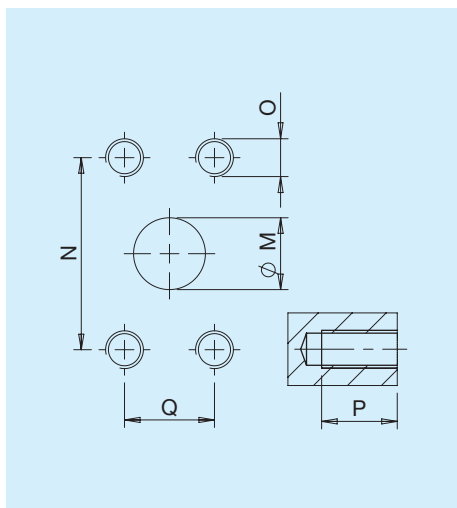
Tipo	M		P	
		Nm	mm	in
G2	Port ISO 1179-1 - G 1/4	17	8	0,31
G6	Port ISO 1179-1 - G 3/4	90	19	0,75
G7	Port ISO 1179-1 - G 1	160	19	0,75

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

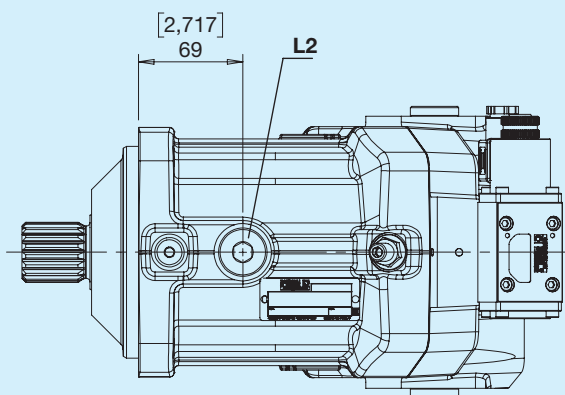
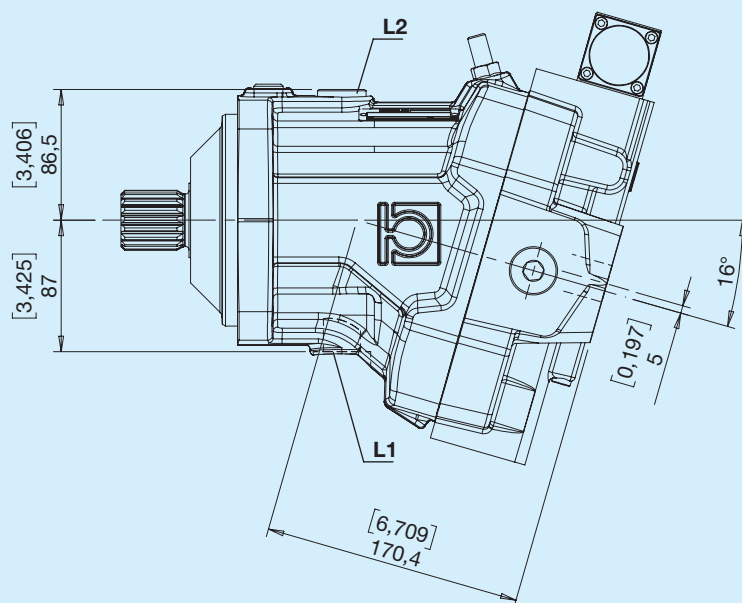
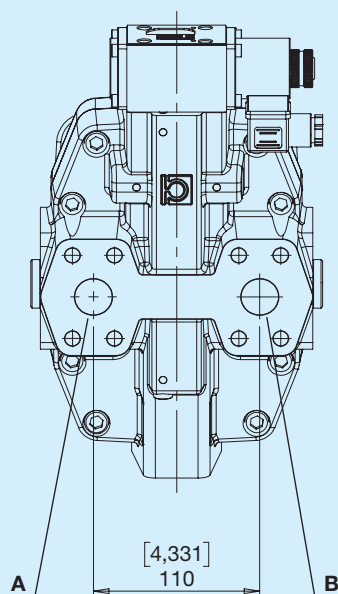


Tipo	M		N		Q		P		O	Nm
	mm	in	mm	in	mm	in	mm	in		
N7	25	1	57,15	2,25	27,76	1,09	20	0,79	M12	70

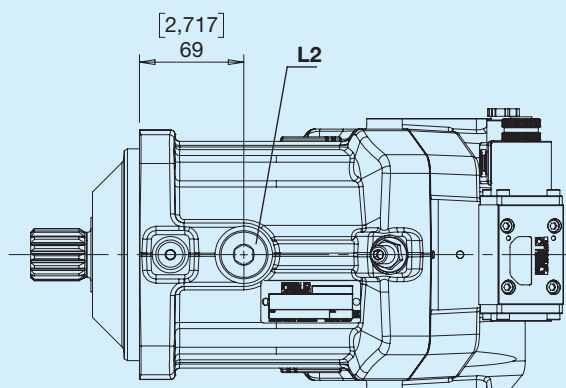
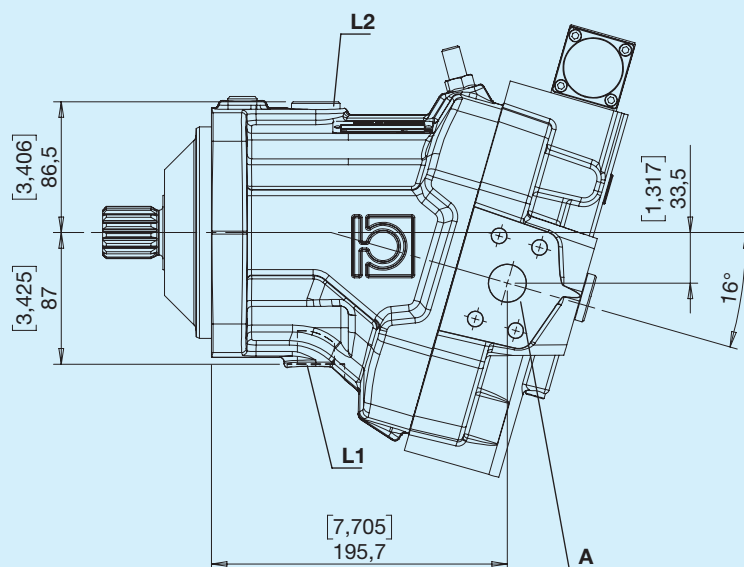
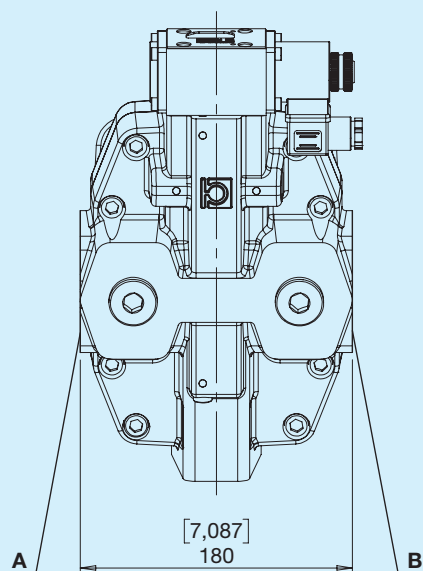
Combinazioni

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

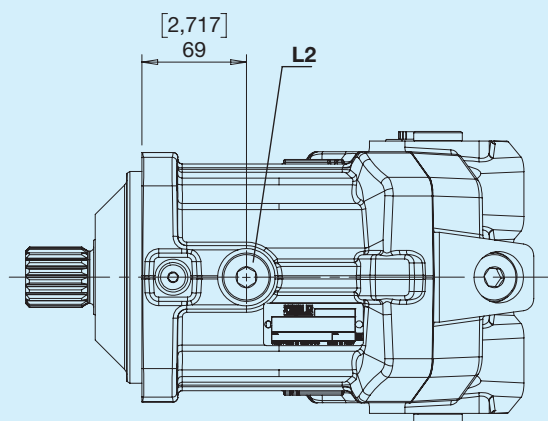
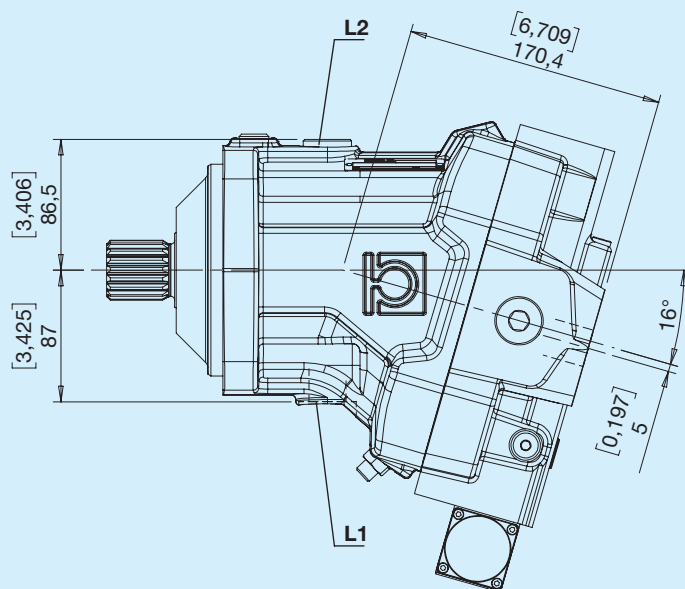
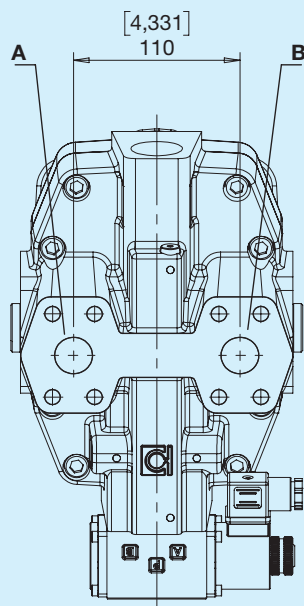
P Posteriori



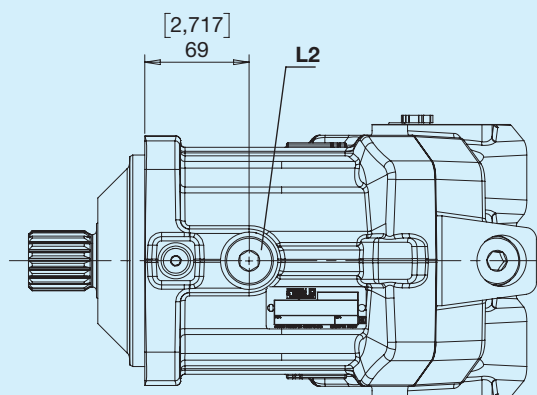
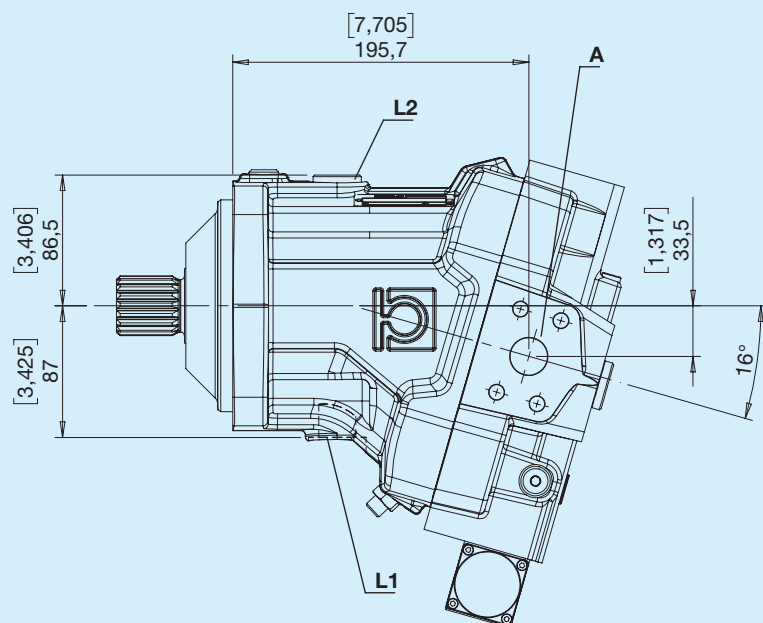
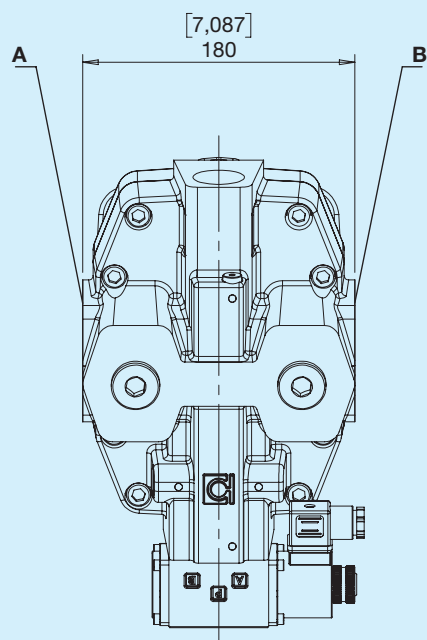
L Lateralì contrapposte



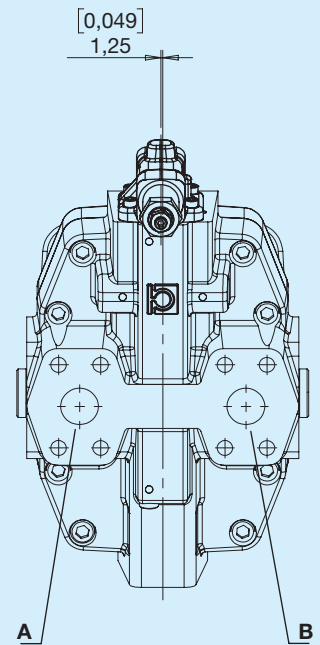
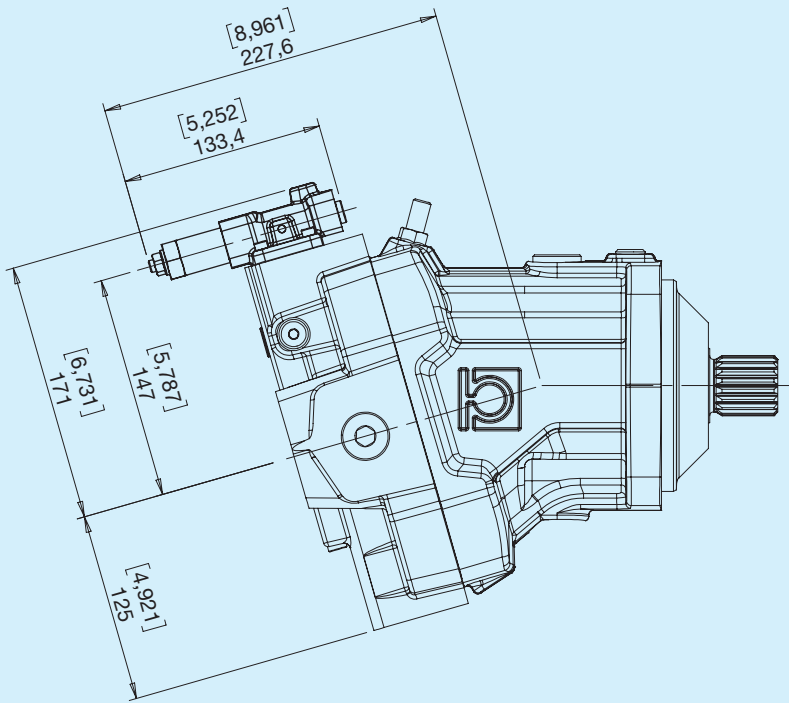
Y Posteriori distributore ruotato



J Laterali contrapposte distributore ruotato

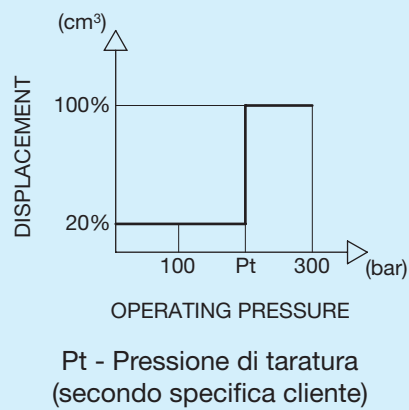


A Idraulico automatico ON/OFF

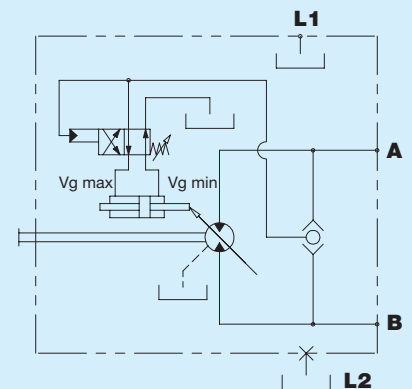


Ingresso	Rotazione
A	Sinistra
B	Destra

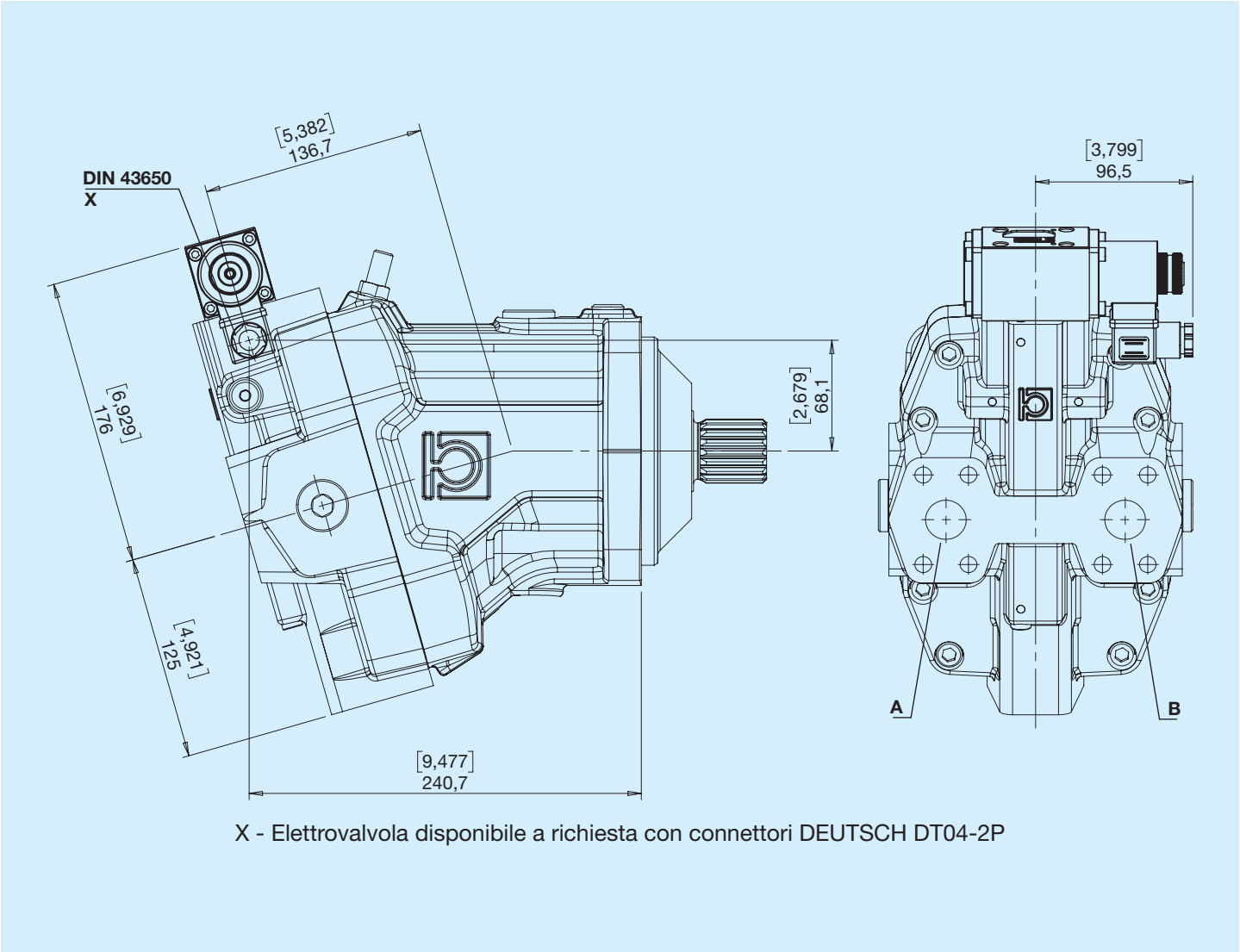
Pilotaggio



Schema idraulico

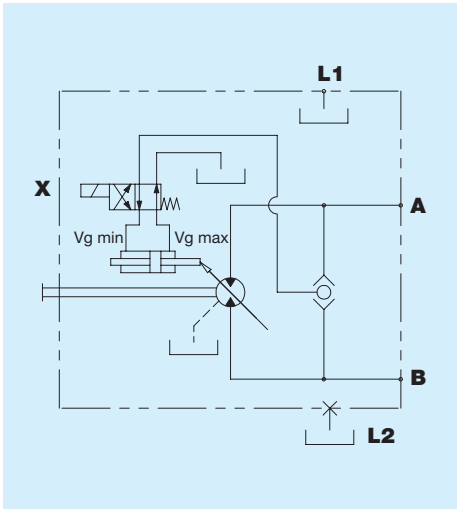


E Elettrico a 2 posizioni 12V

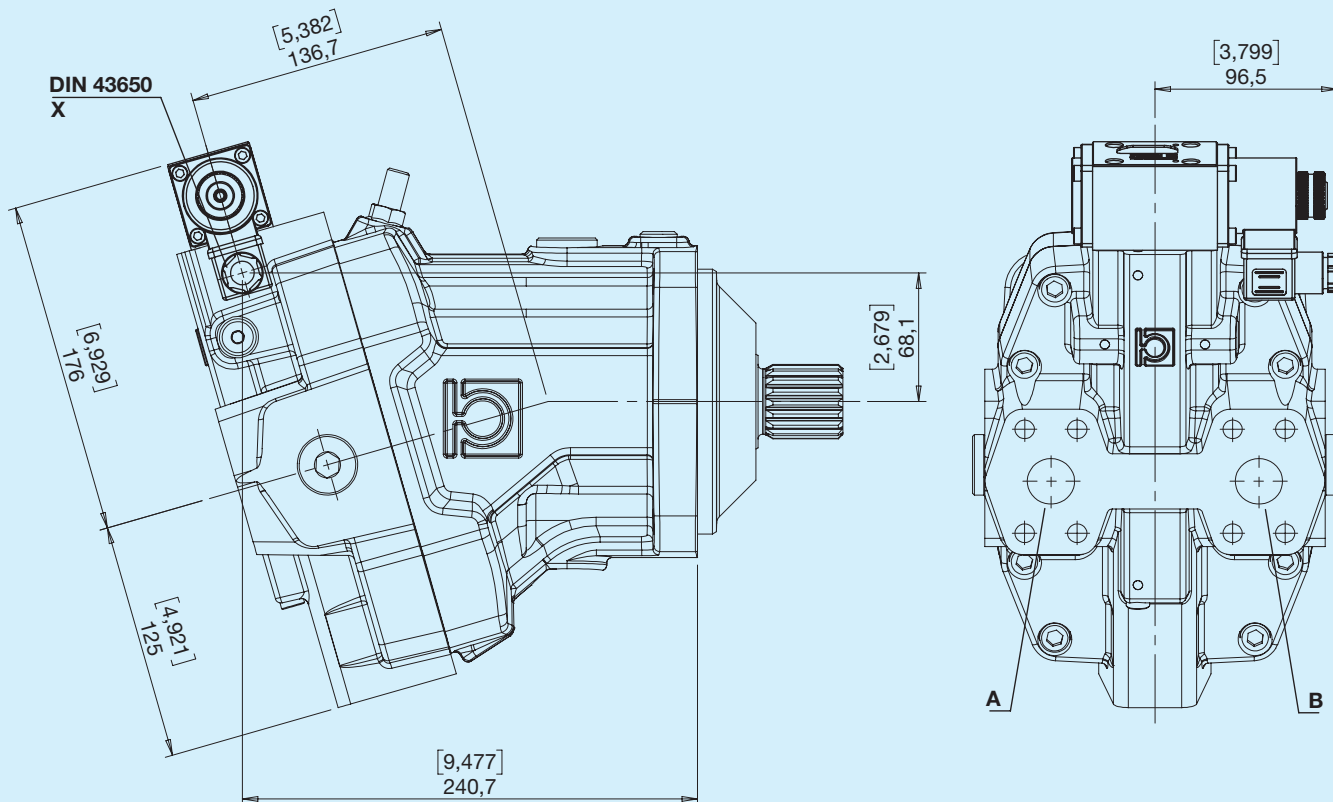


Ingresso	Rotazione
A	Sinistra
B	Destra

Schema idraulico



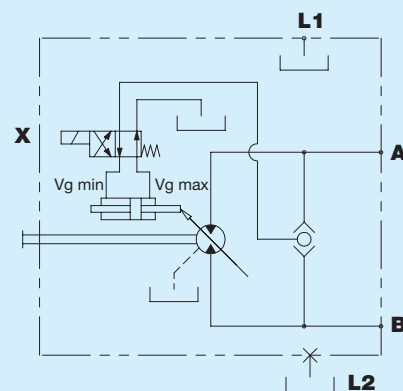
F Elettrico a 2 posizioni 24V



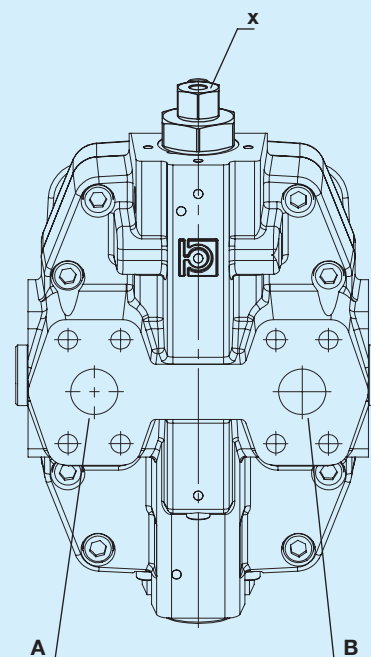
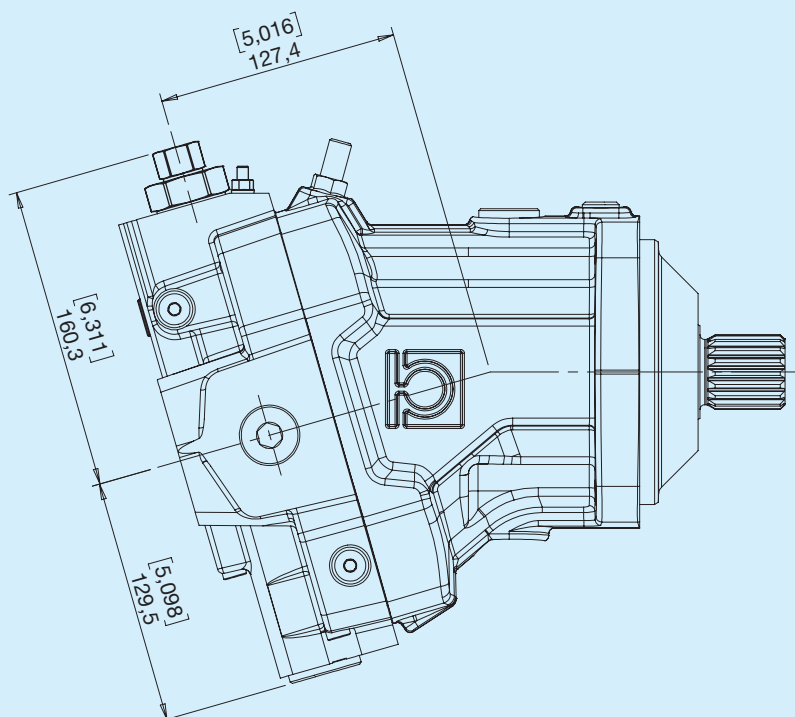
X - Elettrovalvola disponibile a richiesta con connettori DEUTSCH DT04-2P

Ingresso	Rotazione
A	Sinistra
B	Destra

Schema idraulico



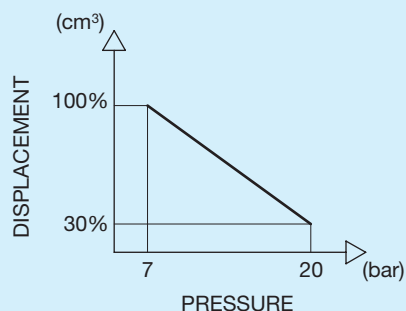
G Idraulico proporzionale



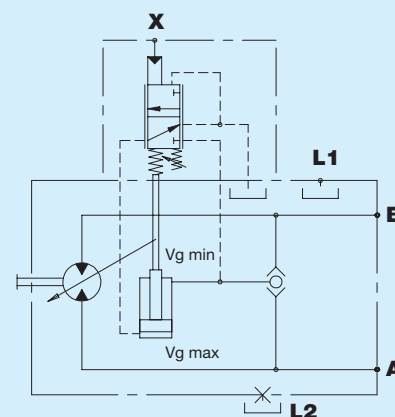
X - Pilotaggio G1/8

Pilotaggio

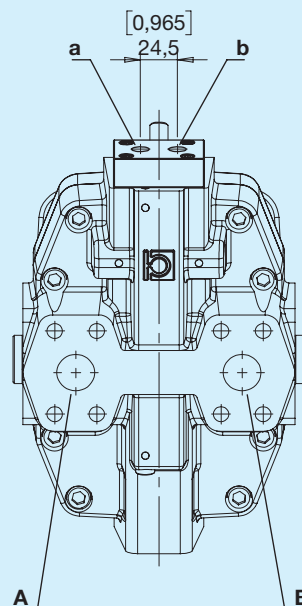
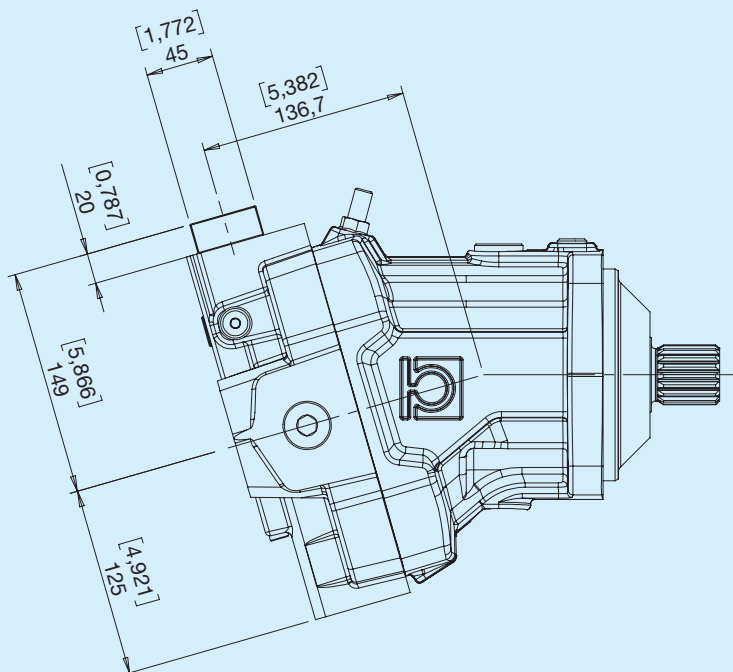
Ingresso	Rotazione
A	Sinistra
B	Destra



Schema idraulico

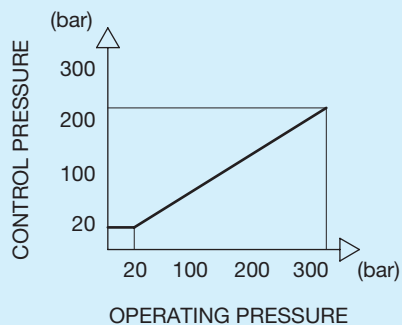


H Idraulico diretto a 2 posizioni

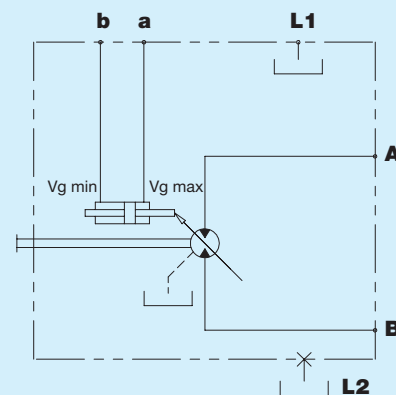


Pilotaggio

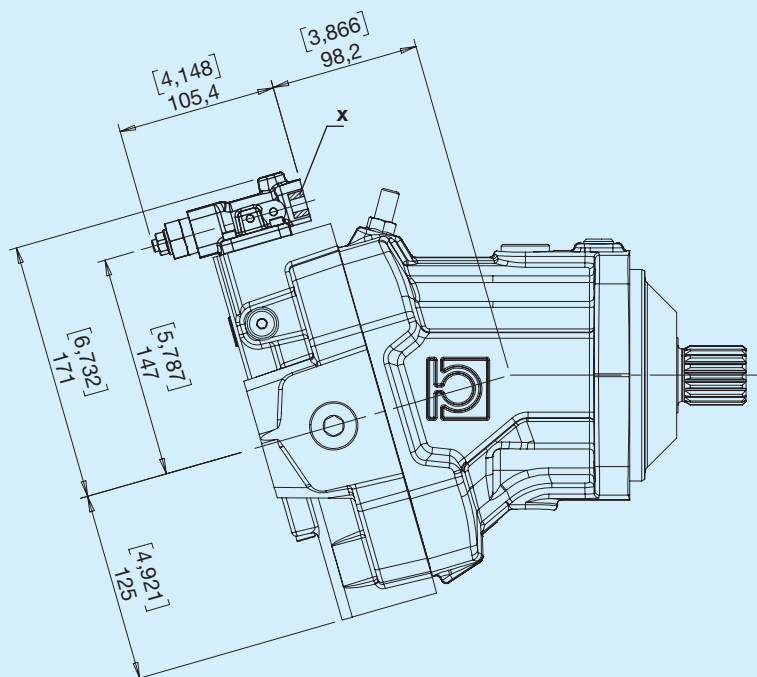
Ingresso	Rotazione
A	Sinistra
B	Destra



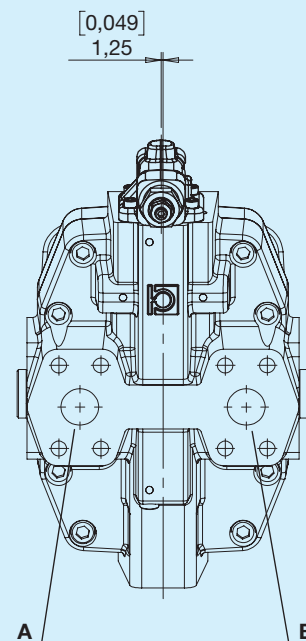
Schema idraulico



K Idraulico a 2 posizioni a bassa pressione

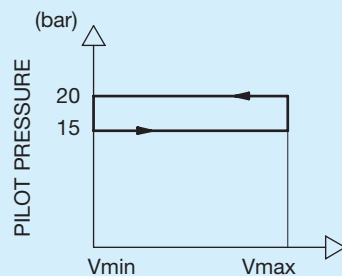


X - Pilotaggio G1/8



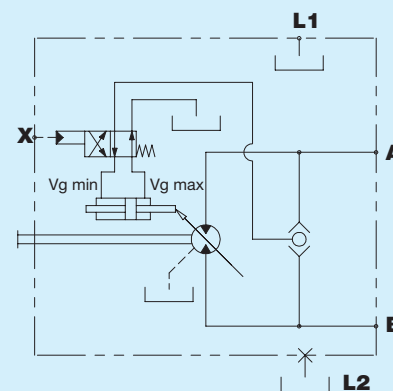
Ingresso	Rotazione
A	Sinistra
B	Destra

Diagramma

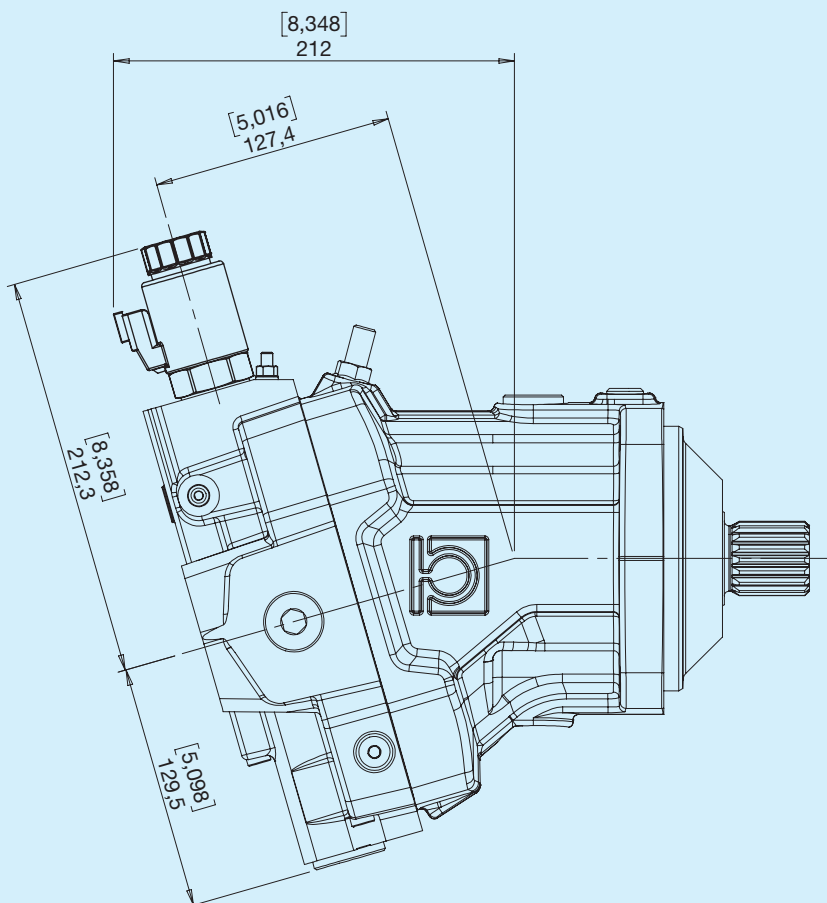


Normalmente il motore è in cilindrata massima. Applicando una pressione esterna sul pilotaggio, si ottiene la variazione di cilindrata alla minima. Per una corretta variazione della cilindrata attenersi ai valori di pilotaggio riportati nel diagramma.

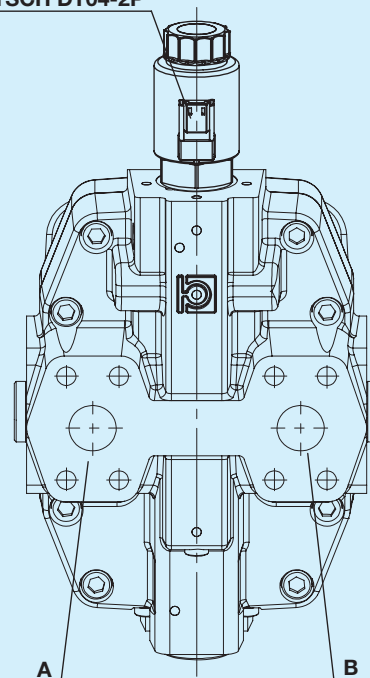
Schema idraulico



O Elettrico proporzionale retroazionato 12V



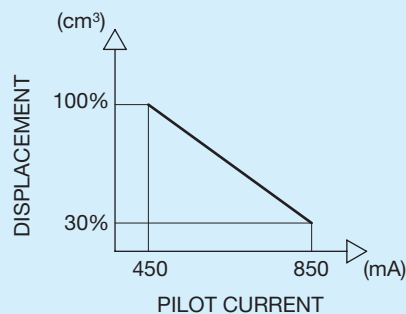
DEUTSCH DT04-2P
X



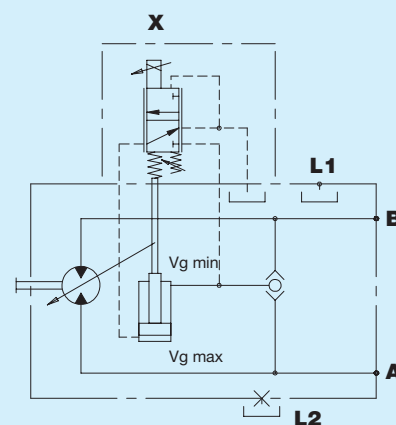
X - Elettrovalvola

Ingresso	Rotazione
A	Sinistra
B	Destra

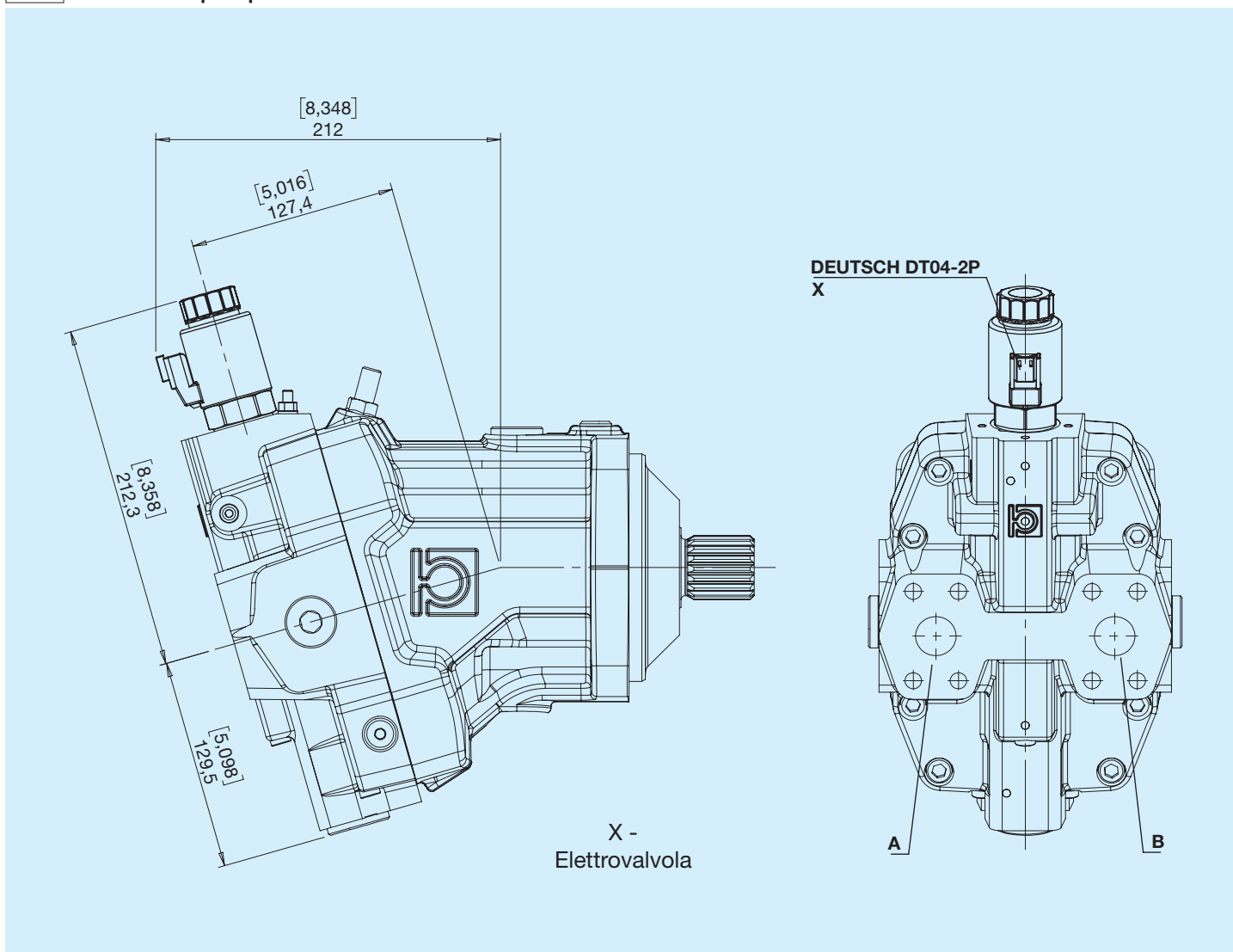
Pilotaggio



Schema idraulico

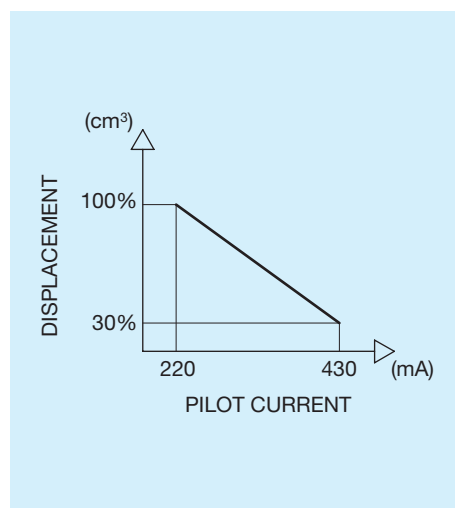


V Elettrico proporzionale retroazionato 24V

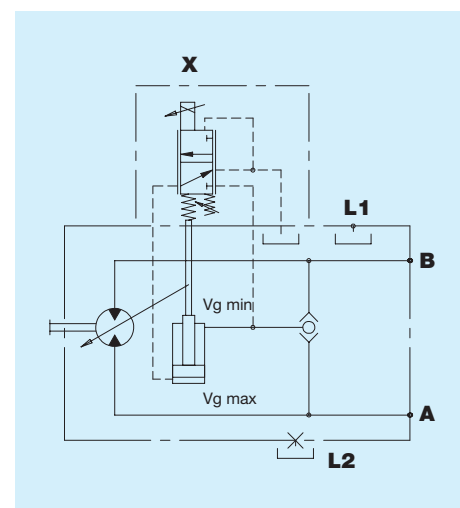


Pilotaggio

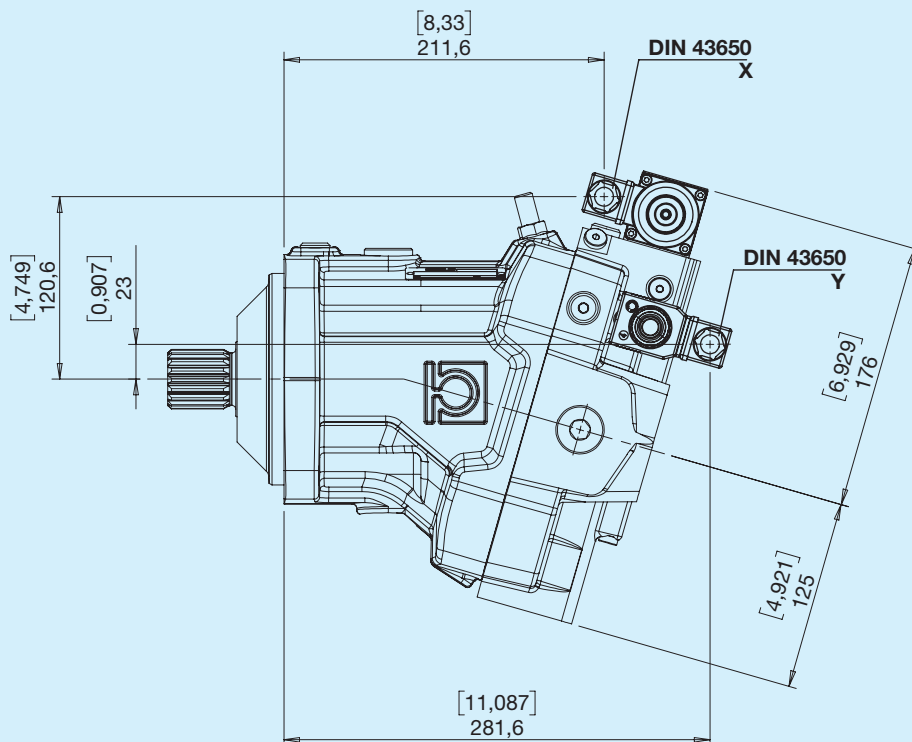
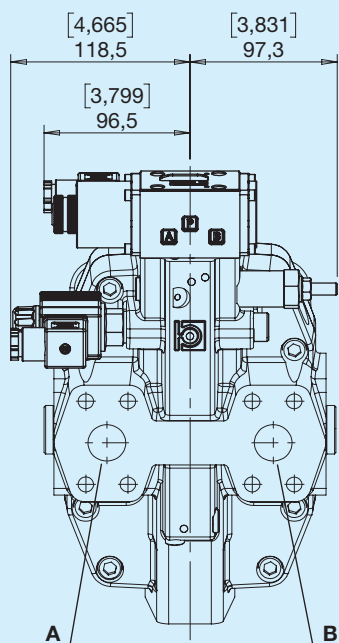
Ingresso	Rotazione
A	Sinistra
B	Destra



Schema idraulico

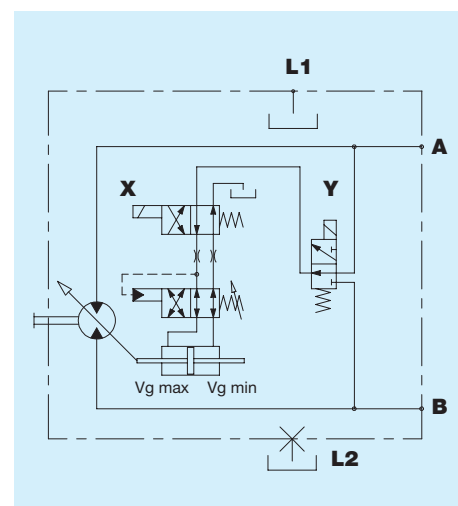


R Elettrico ON/OFF con pressure override e selettore di canale

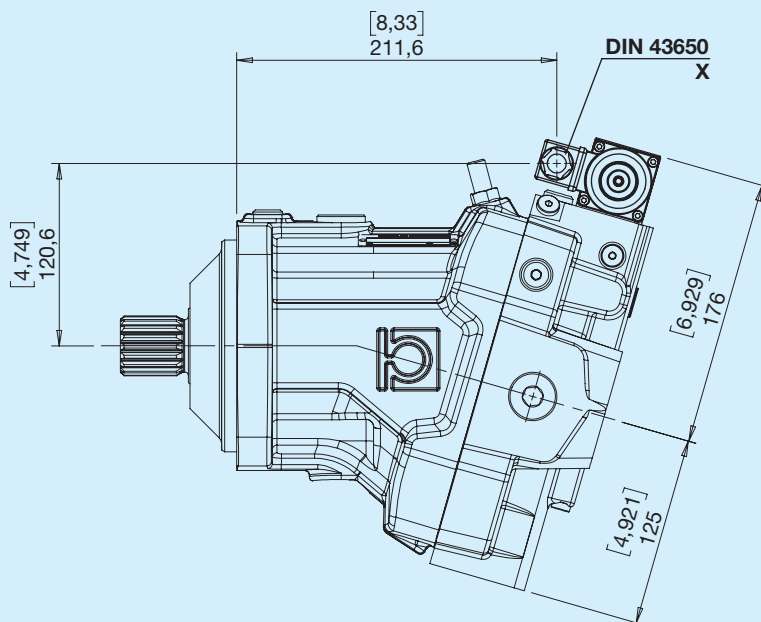
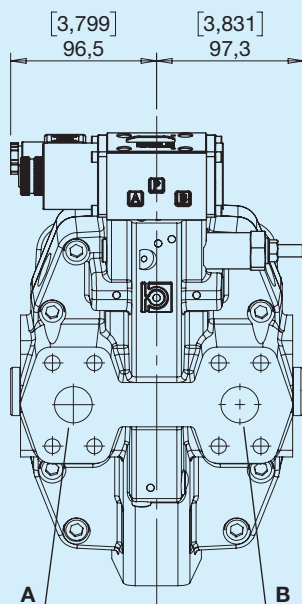


Ingresso	Rotazione
A	Sinistra
B	Destra

Schema idraulico

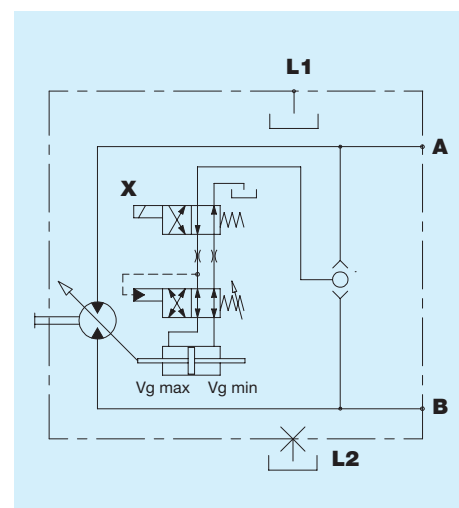


U Elettrico ON/OFF con pressure override

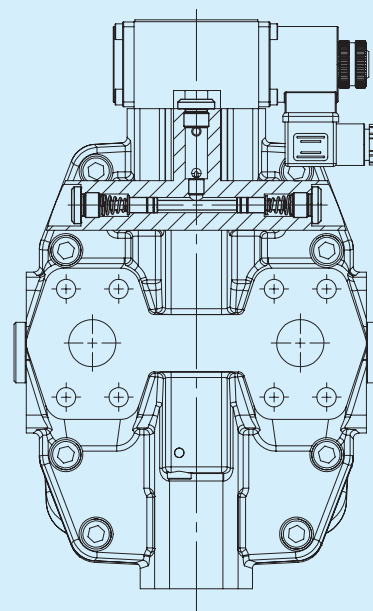
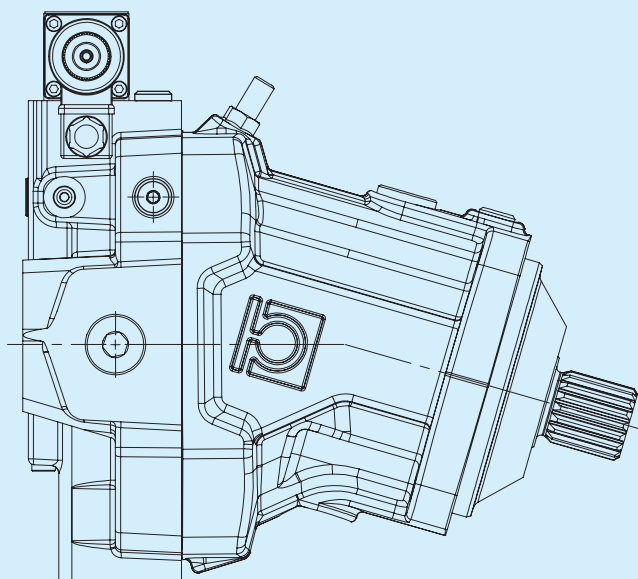


Ingresso	Rotazione
A	Sinistra
B	Destra

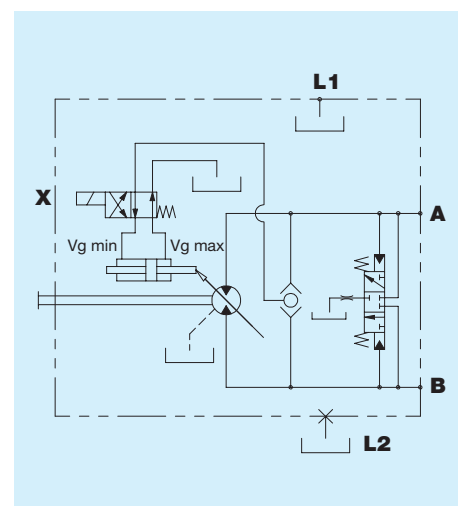
Schema idraulico



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

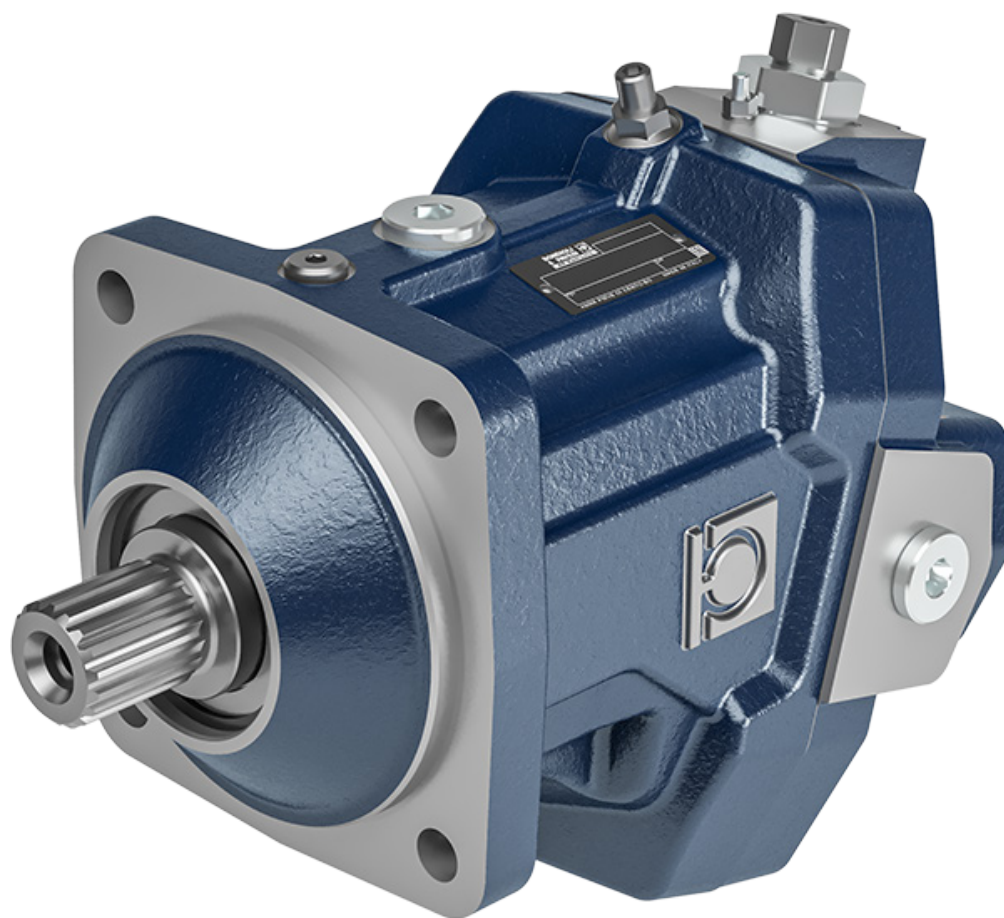


Schema idraulico

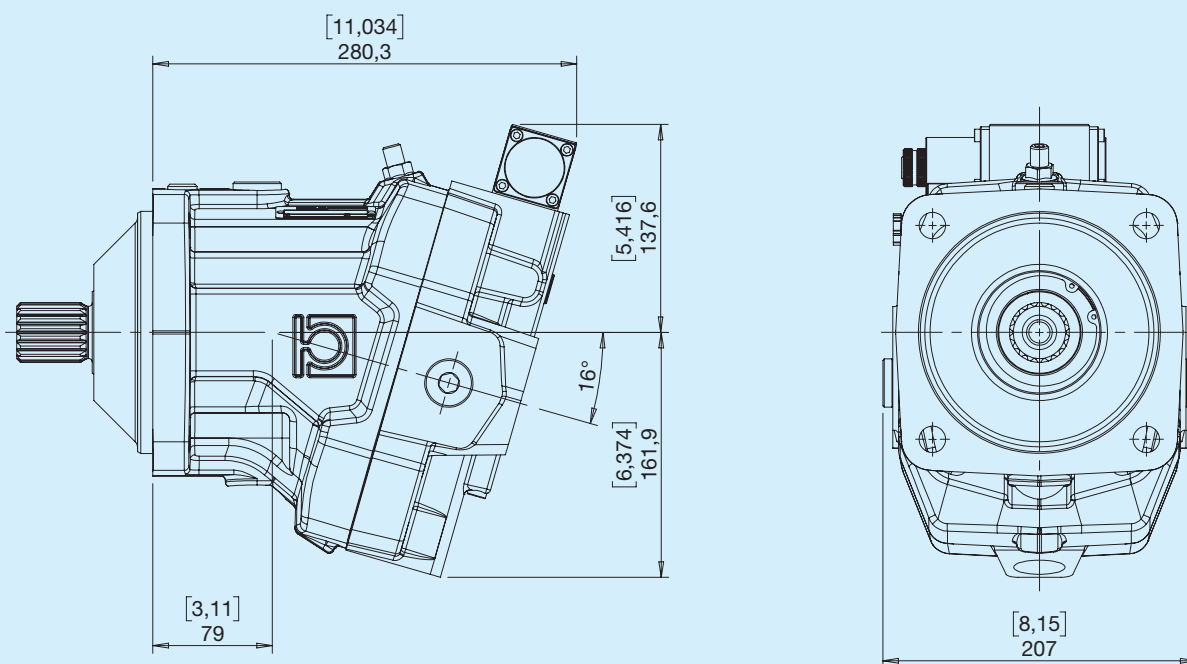


1	2	3	4	5	6	7	8	9	10	11	12	13	14				
HPBA																	
Cilindrata standard																	
080			108														
Cilindrata minima																	
...																	
Flange																	
I ISO 4 fori standard					P ISO 2 fori centraggio a cartuccia					S SAE C							
Alberi																	
B DIN 5480 W40x2x30x18					3 SAE 14T 12/24 DP					Z SAE 17T 12/24 DP							
C DIN 5480 W35x2x30x16					7 SAE 21T 16/32 DP												
Tipo bocche																	
G Gas					U Unf					N Gas-Ingresso/Uscita SAE				M Unf-Ingresso/Uscita SAE			
Posizione bocche																	
P Posteriori					Y Posteriori distributore ruotato (non disponibile per comandi O - V - G)					J Lateralì contrapposte distributore ruotato (non disponibile per comandi O - V - G)				L Lateralì contrapposte			
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																	
0 Nessuna opzione					C Verniciatura					V Valvola di flussaggio							
Esecuzioni speciali																	
...																	

Motori a cilindrata variabile HPBA110-130

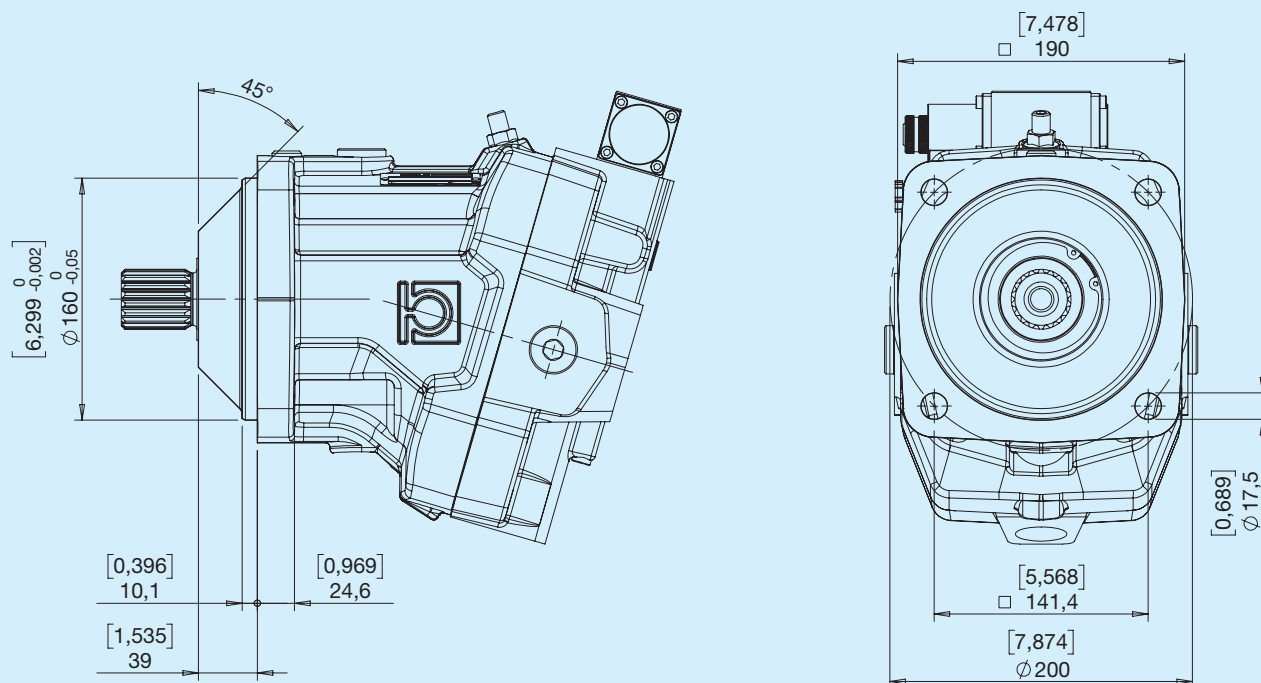


Prima di iniziare l'utilizzo leggere attentamente il documento ISTRUZIONI GENERALI D'IMPIEGO POMPE E MOTORI A PISTONI ASSIALI PER CIRCUITO CHIUSO.

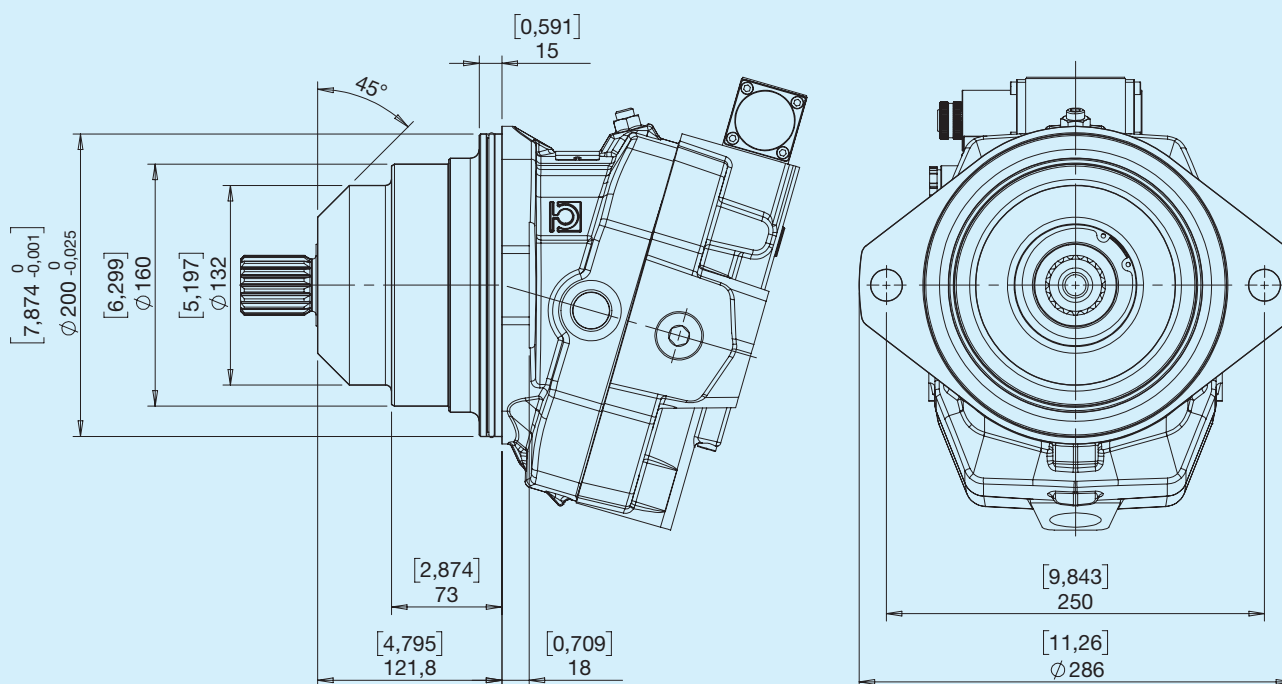


HPBA	Cilindrata teorica		Oscillante	Pressione Continua		Pressione intermittente		Pressione picco		Velocità di rotazione			Massa	
	cm ³	in ³		bar	psi	bar	psi	bar	psi	MAX (max V) min ⁻¹	MAX (min V) min ⁻¹	MIN min ⁻¹	kg	lbs
110	110	6,71	26	350	5075	400	5800	450	6525	2900	4500	500	45	99
130	130	7,93	25	350	5075	400	5800	450	6525	2900	4500	500	51	112

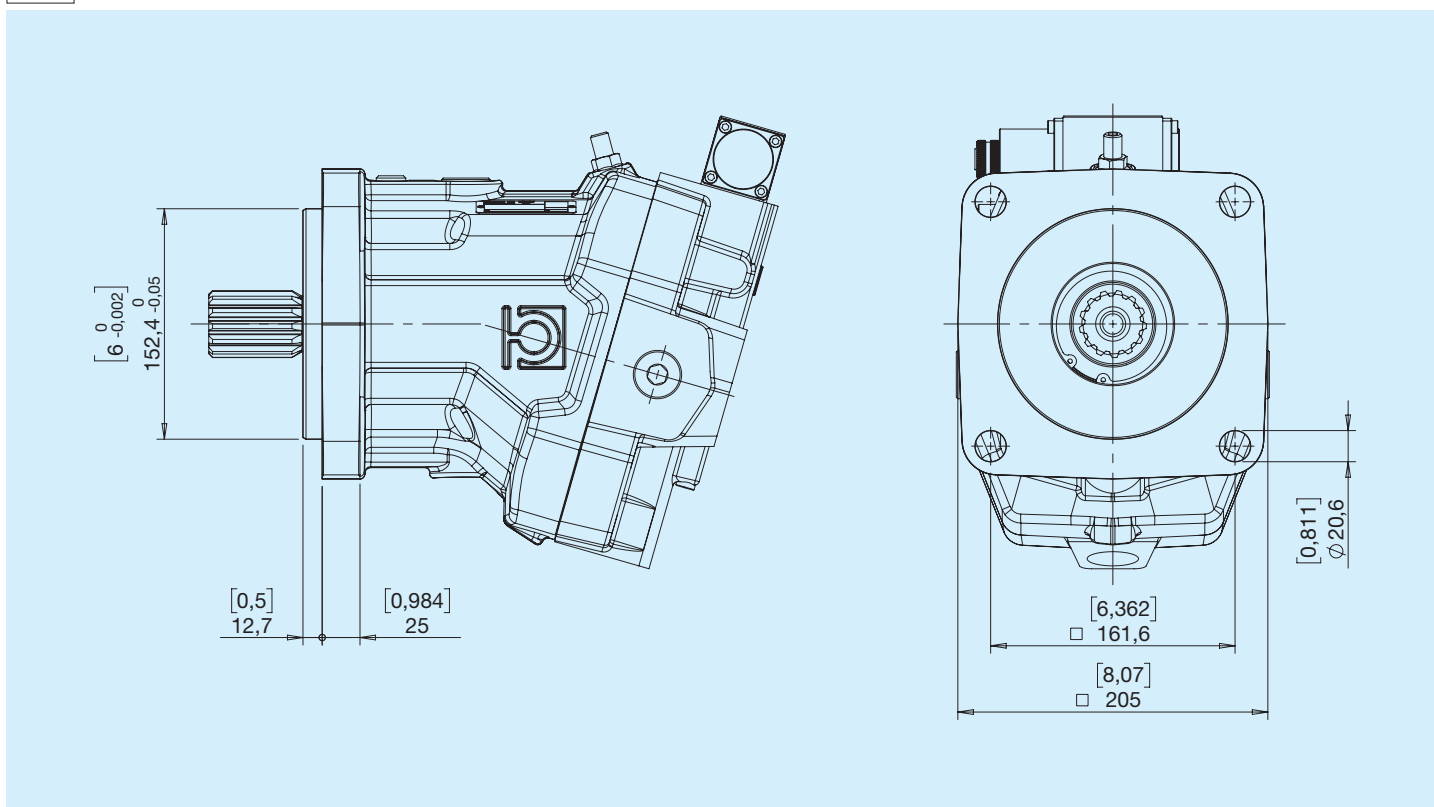
I ISO 4 fori standard



P ISO 2 fori centraggio a cartuccia

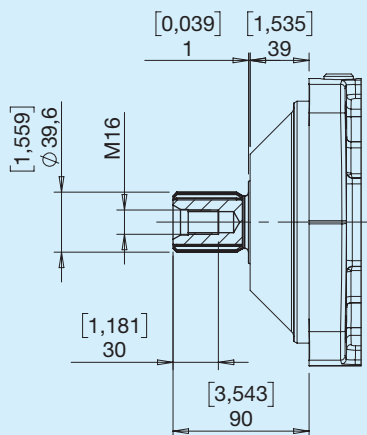


S SAE D



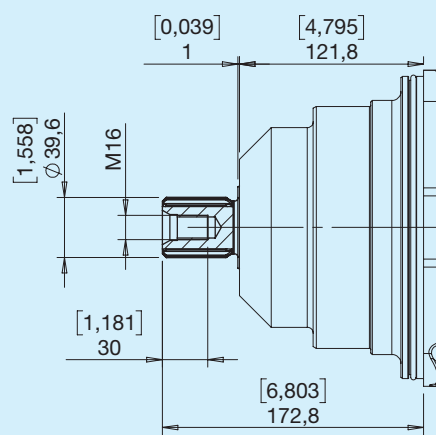
B DIN 5480 W40x2x30x18

Versione ISO 4 fori standard



Coppia Max 1310 Nm

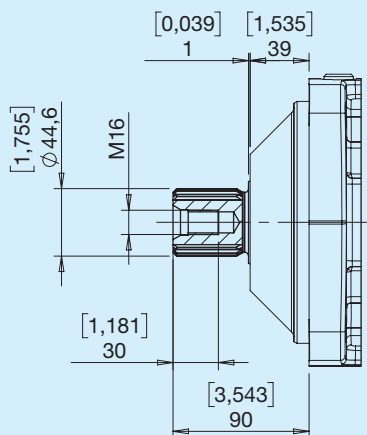
Versione ISO 2 fori a cartuccia



Coppia Max 1310 Nm

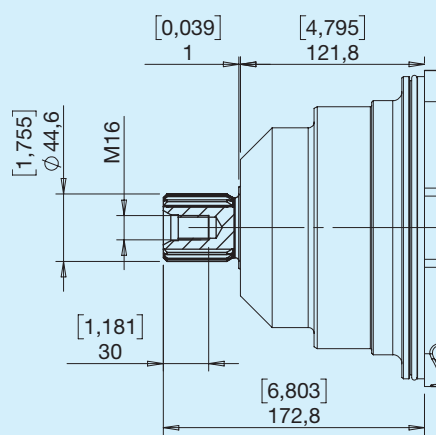
D DIN 5480 W45x2x30x21

Versione ISO 4 fori standard



Coppia Max 1980 Nm

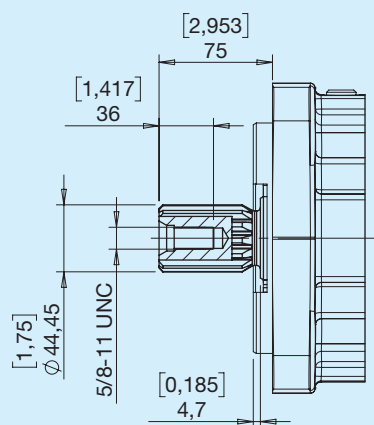
Versione ISO 2 fori a cartuccia



Coppia Max 1980 Nm

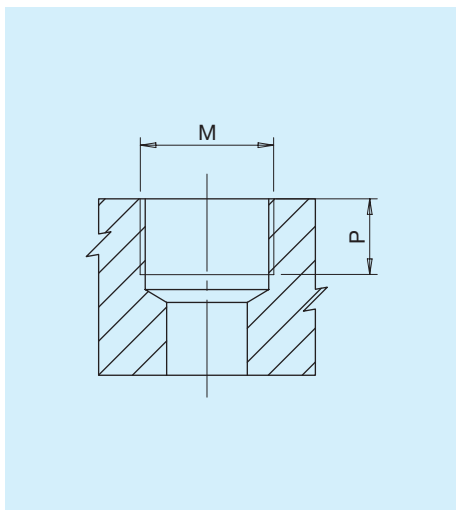
9 SAE 13T 8/16 DP

Versione SAE D



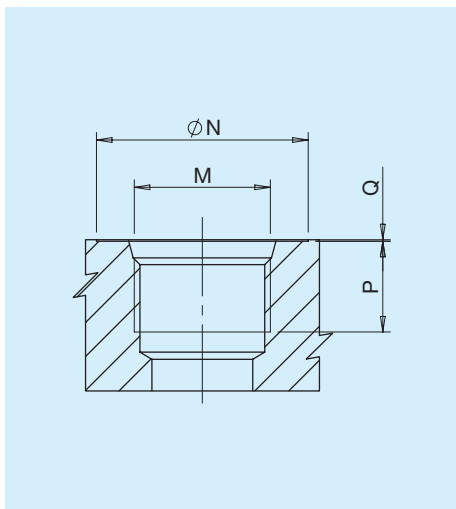
Coppia Max 2600 Nm

Tipo G



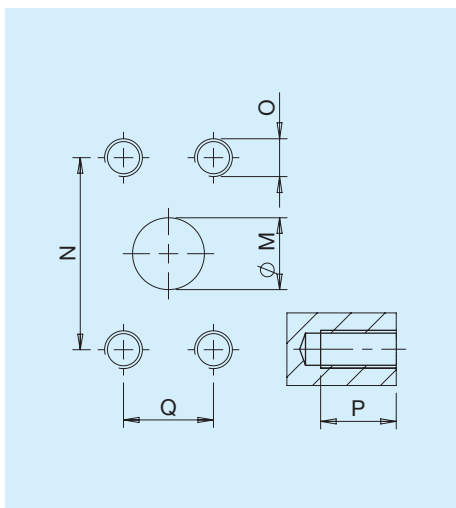
Tipo	M		P	
		Nm	mm	in
G2	Port ISO 1179-1 - G 1/4	17	8	0,31
G6	Port ISO 1179-1 - G 3/4	90	19	0,75
G7	Port ISO 1179-1 - G 1	160	19	0,75

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

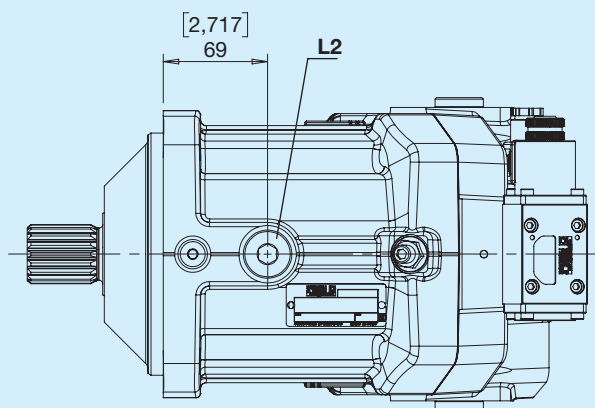
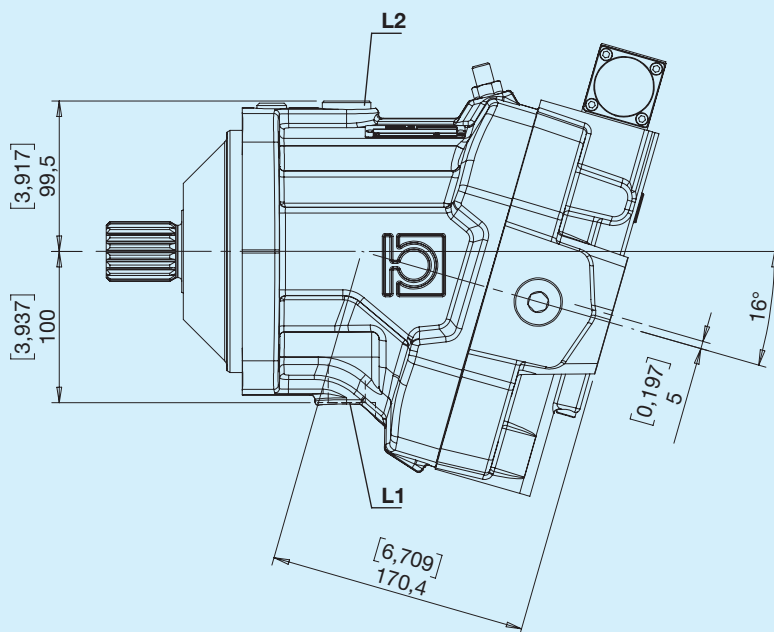
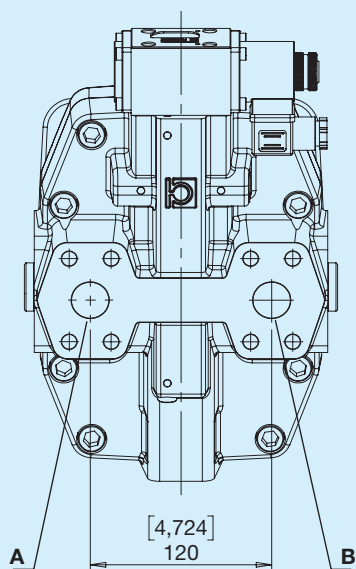


Tipo	M		N		Q		P		O	Nm
	mm	in	mm	in	mm	in	mm	in		
N7	25	1	57,15	2,25	27,76	1,09	20	0,79	M12	70

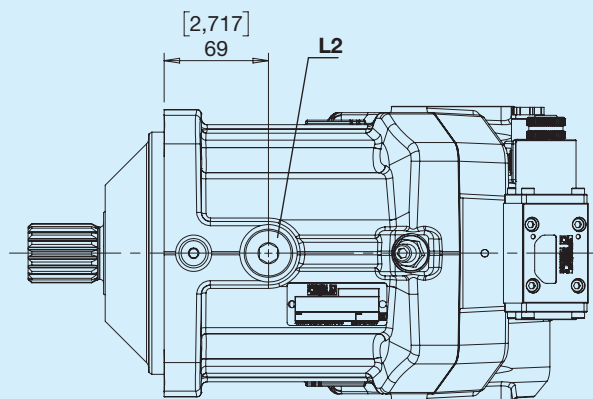
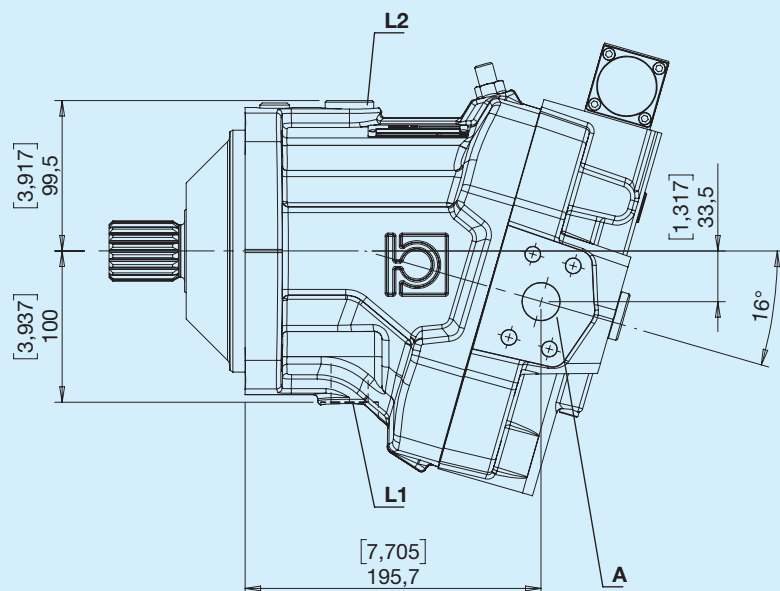
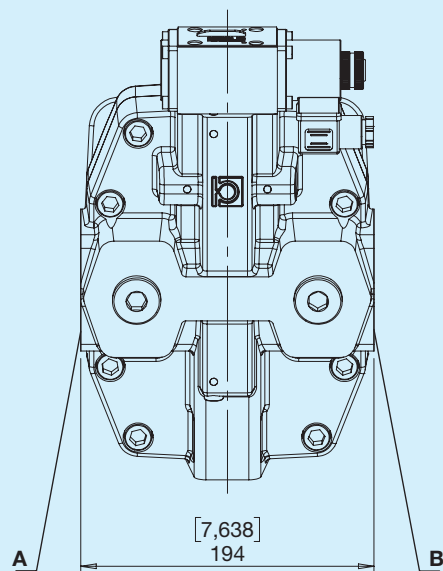
Combinazioni

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

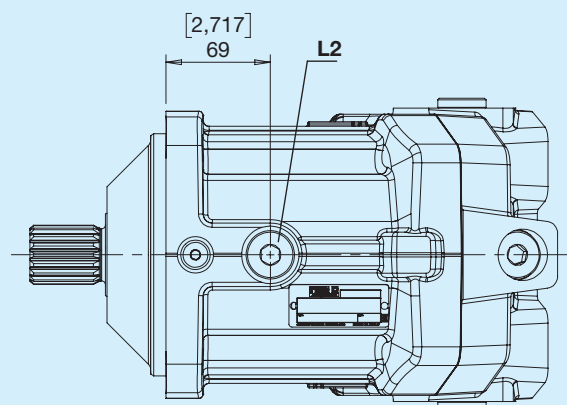
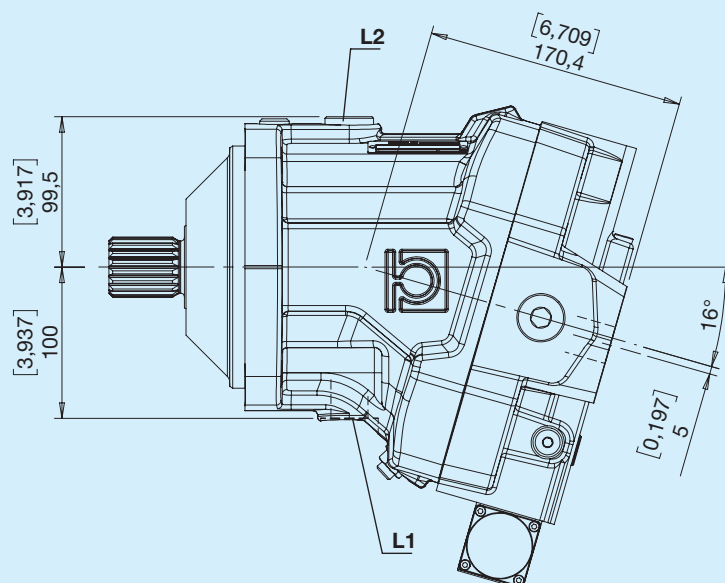
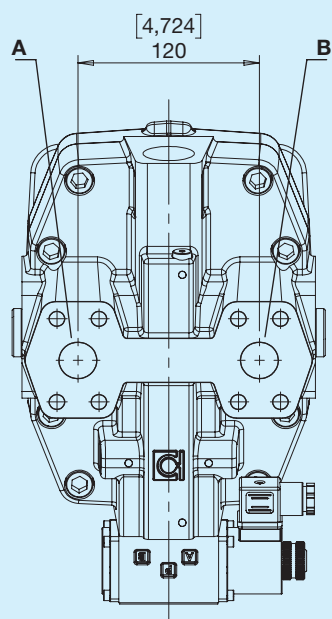
P Posteriori



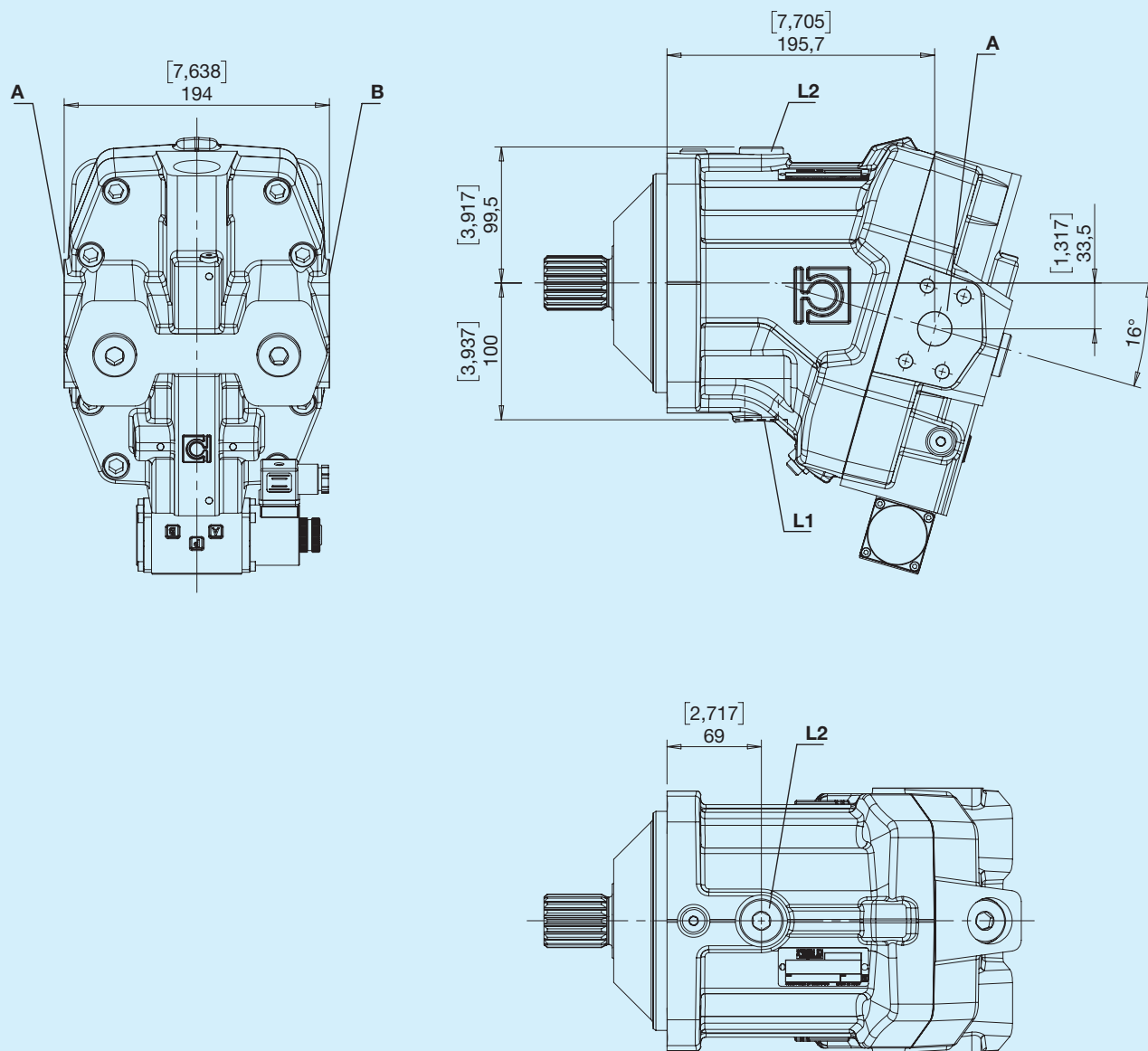
L Lateral contrapposte



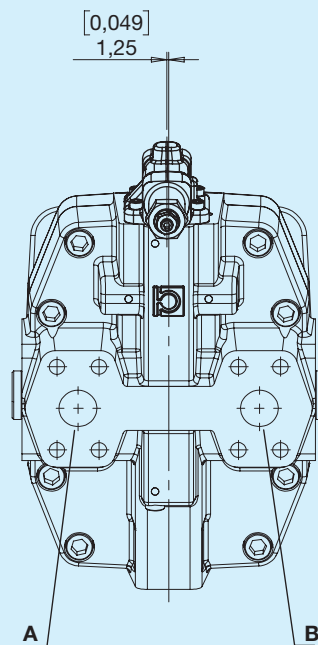
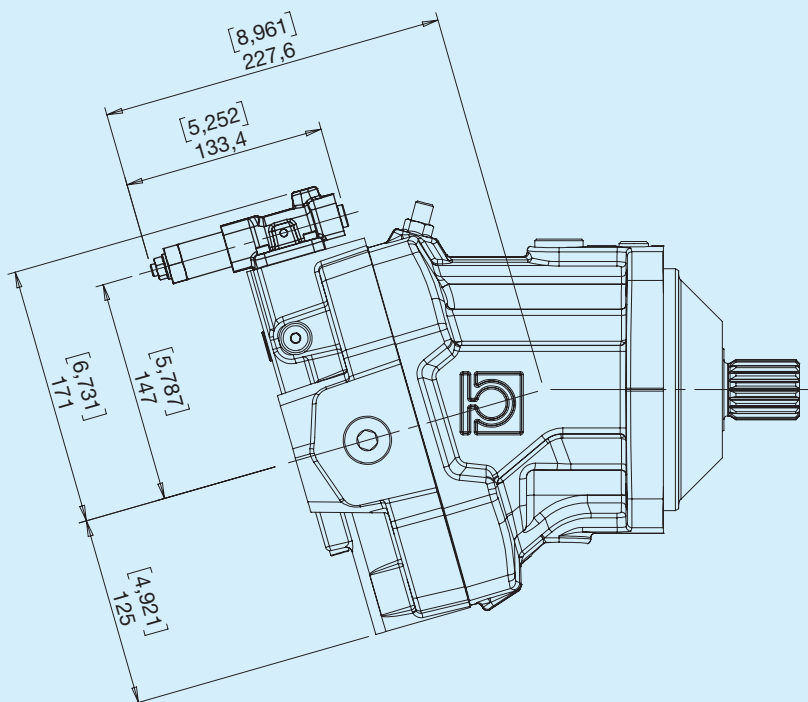
Y Posteriori distributore ruotato



J Lateralì contrapposte distributore ruotato

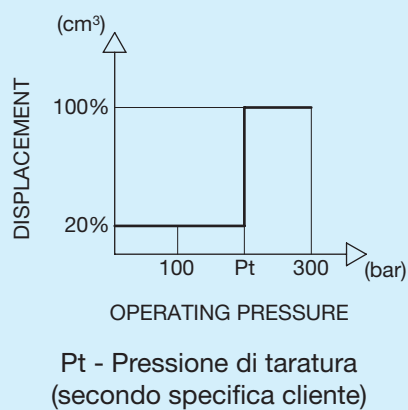


A Idraulico automatico ON/OFF

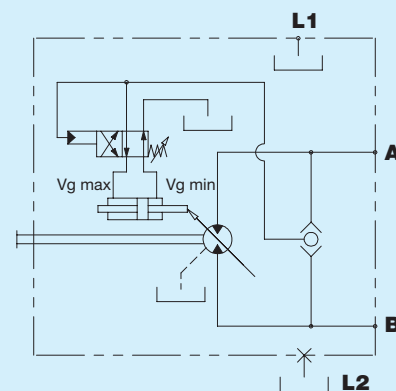


Ingresso	Rotazione
A	Sinistra
B	Destra

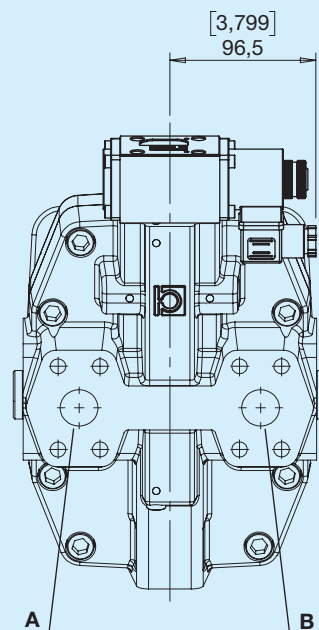
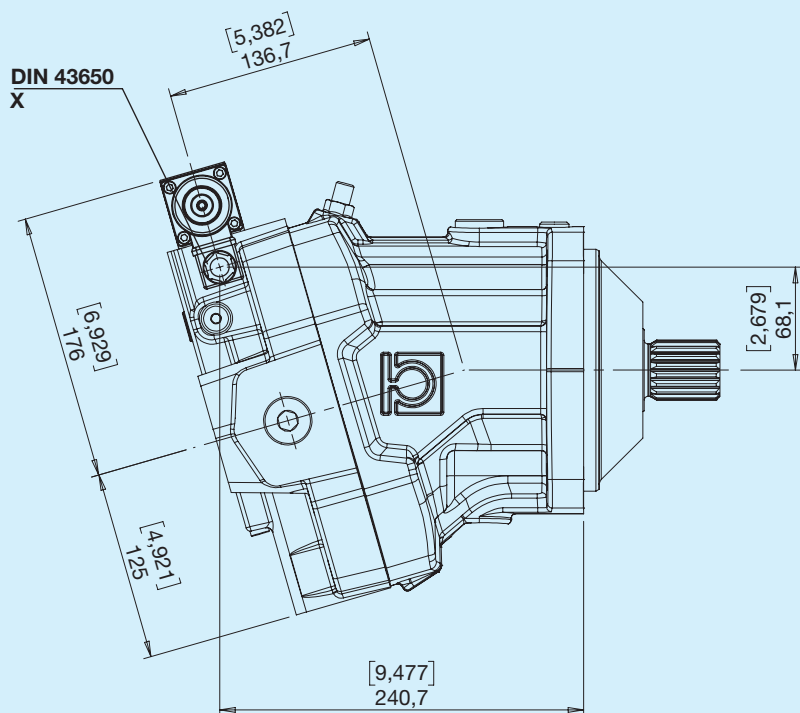
Pilotaggio



Schema idraulico



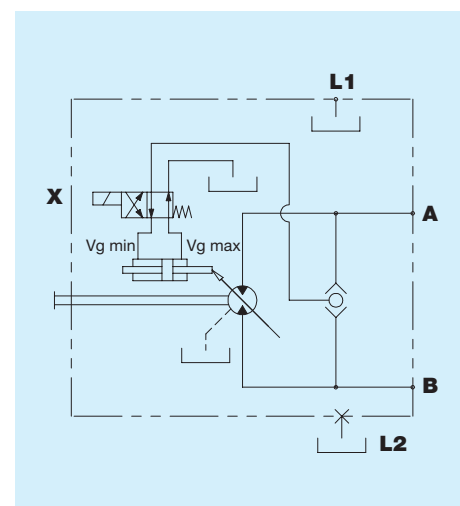
E Elettrico a 2 posizioni 12V



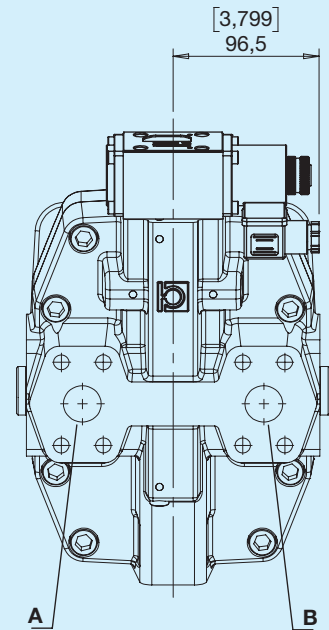
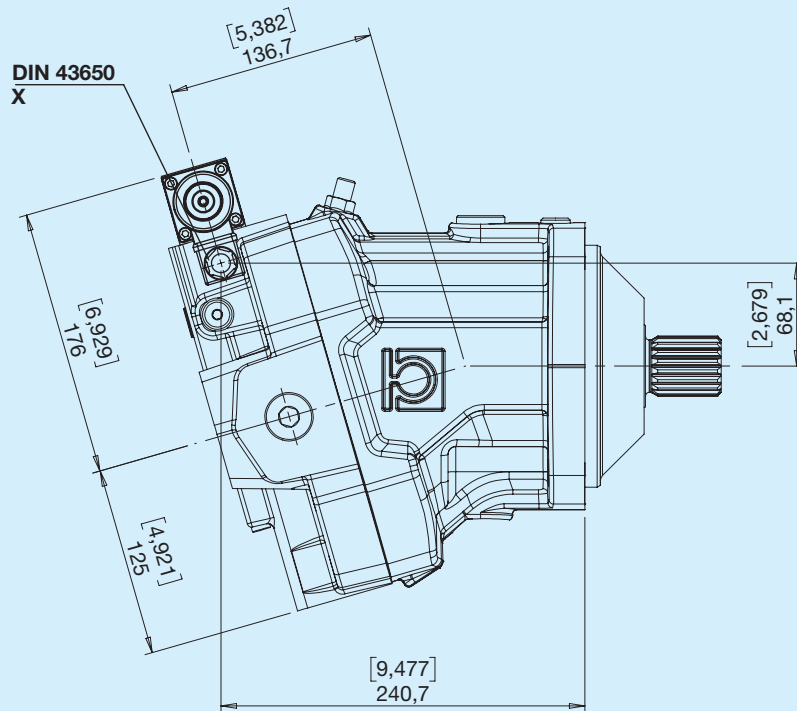
X - Elettrovalvola disponibile a richiesta con connettori DEUTSCH DT04-2P

Ingresso	Rotazione
A	Sinistra
B	Destra

Schema idraulico



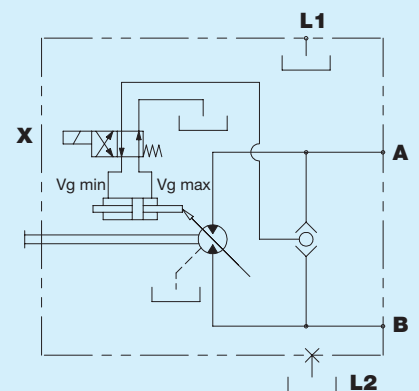
F Elettrico a 2 posizioni 24V



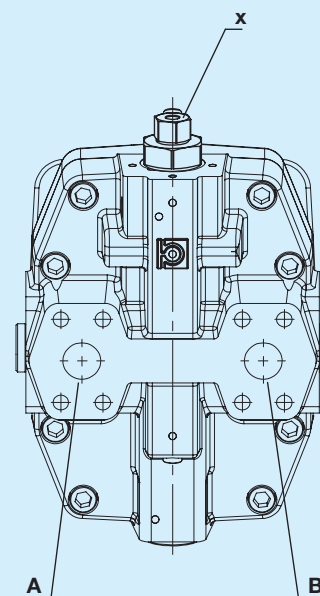
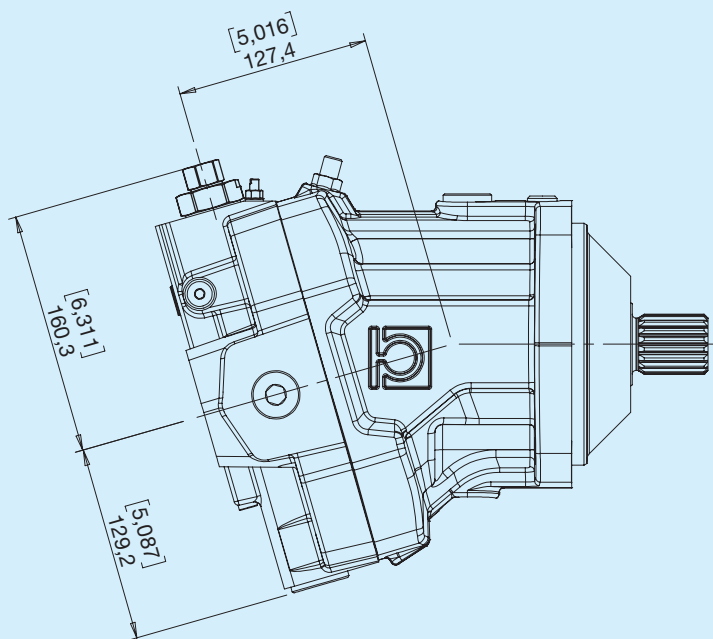
X - Elettrovalvola disponibile a richiesta con connettori DEUTSCH DT04-2P

Ingresso	Rotazione
A	Sinistra
B	Destra

Schema idraulico



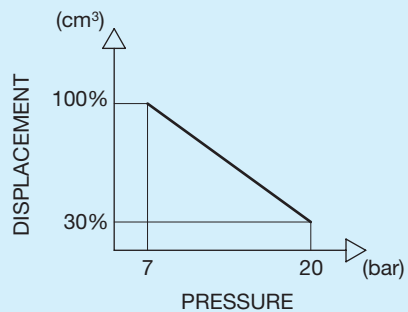
G Idraulico proporzionale



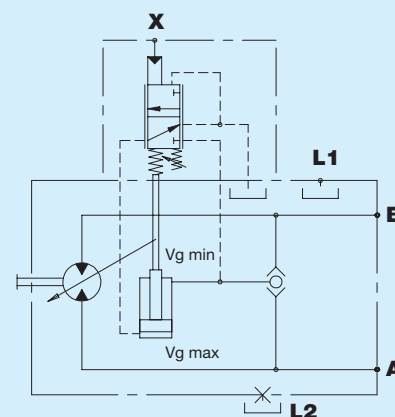
X - Pilotaggio G1/8

Pilotaggio

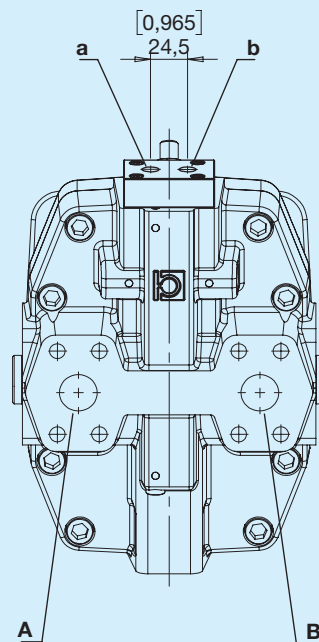
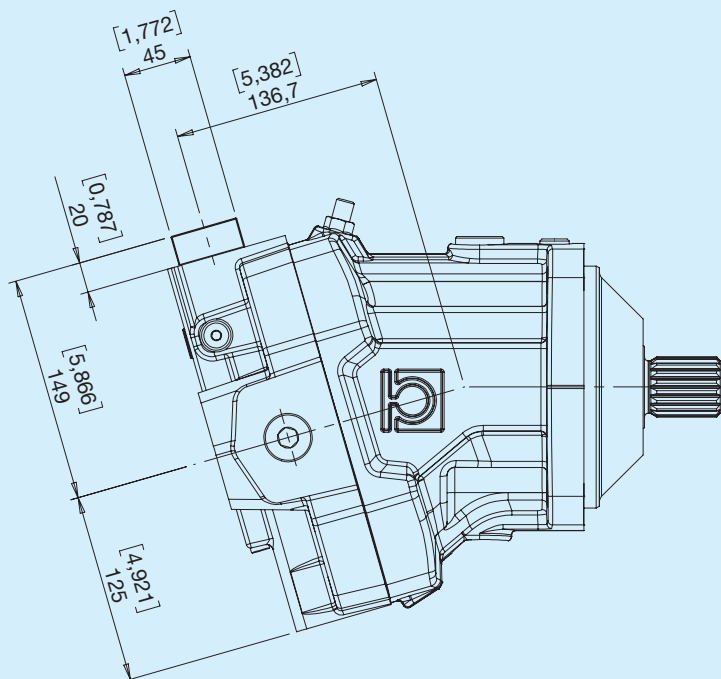
Ingresso	Rotazione
A	Sinistra
B	Destra



Schema idraulico

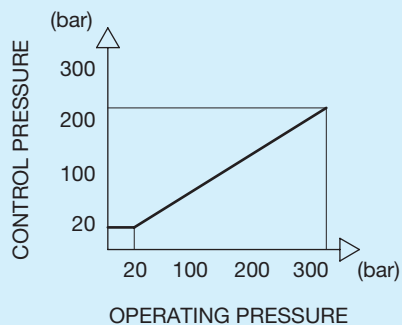


H Idraulico diretto a 2 posizioni

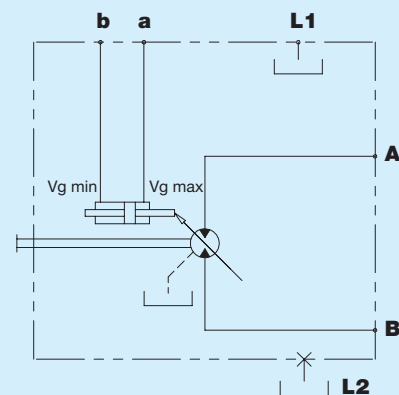


Pilotaggio

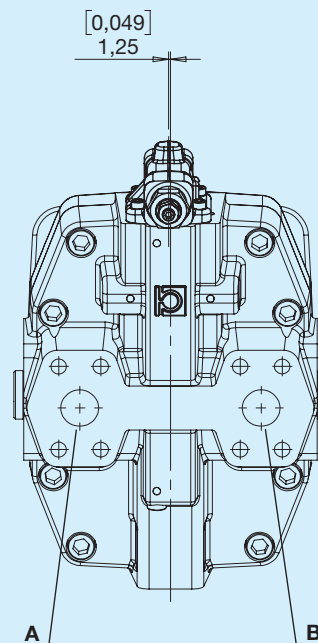
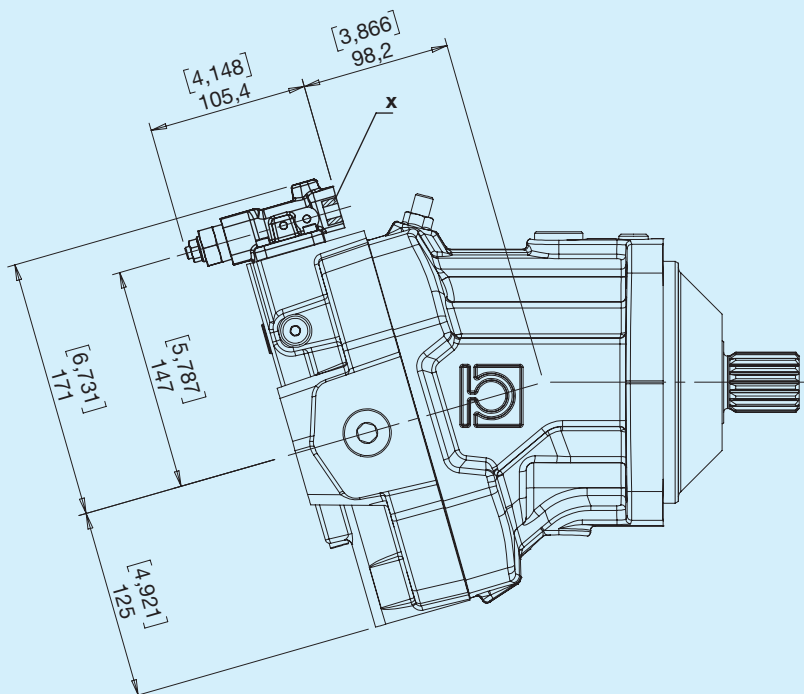
Ingresso	Rotazione
A	Sinistra
B	Destra



Schema idraulico



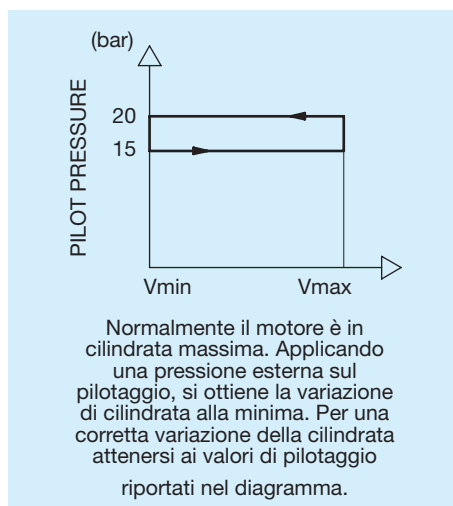
K Idraulico a 2 posizioni a bassa pressione



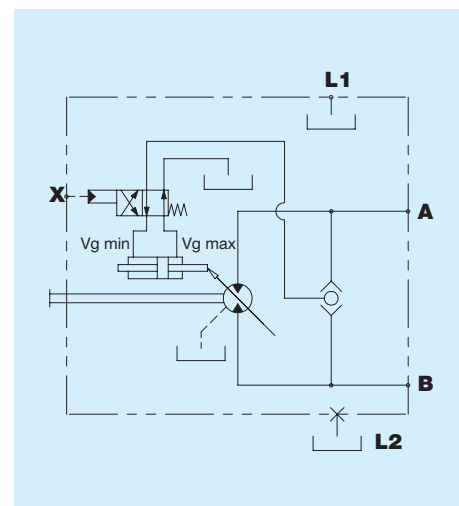
X - Pilotaggio G1/8

Ingresso	Rotazione
A	Sinistra
B	Destra

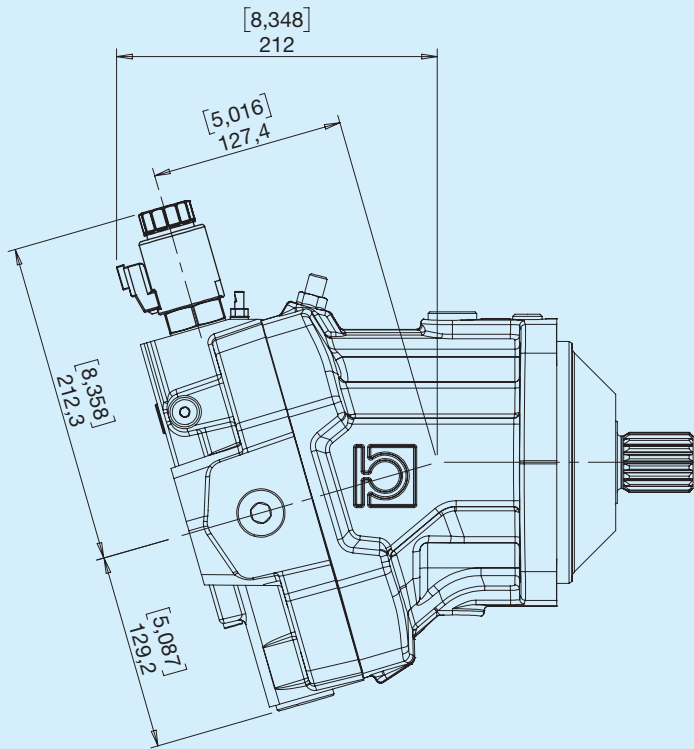
Diagramma



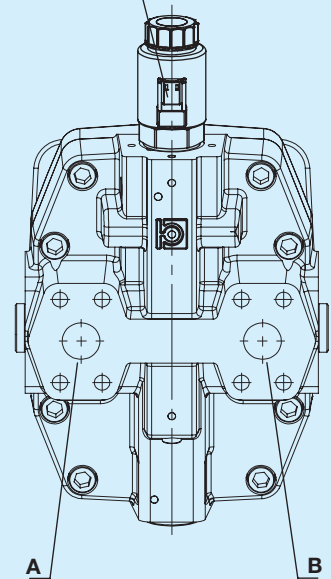
Schema idraulico



O Elettrico proporzionale retroazionato 12V



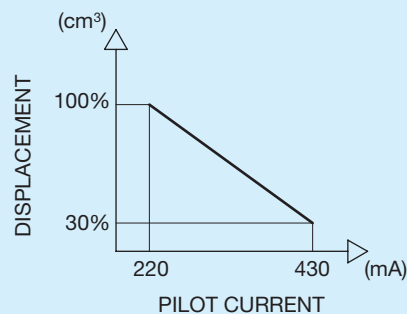
DEUTSCH DT04-2P
X



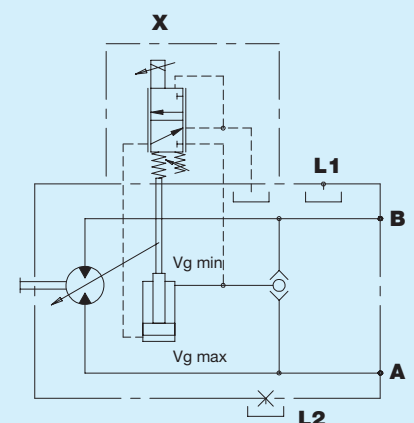
X - Elettrovalvola

Ingresso	Rotazione
A	Sinistra
B	Destra

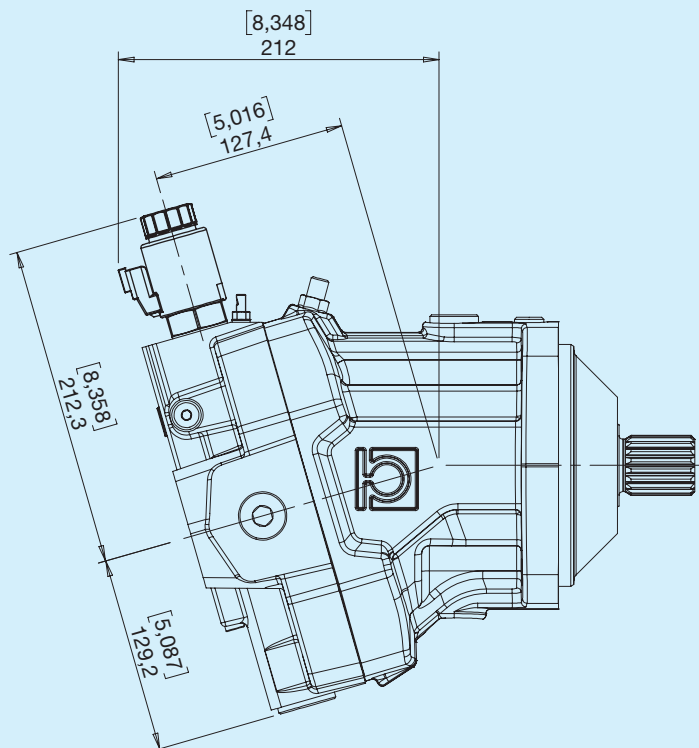
Pilotaggio



Schema idraulico

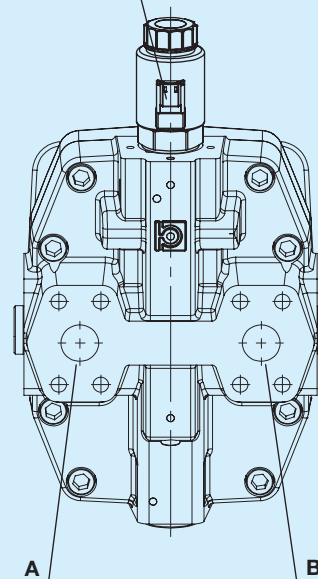


V Elettrico proporzionale retroazionato 24V



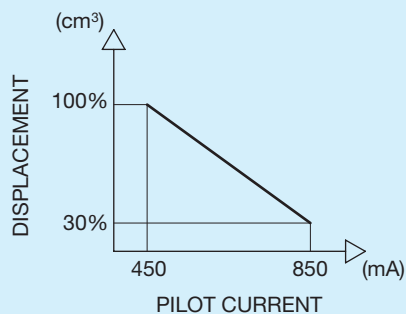
X - Elettrovalvola

DEUTSCH DT04-2P
X

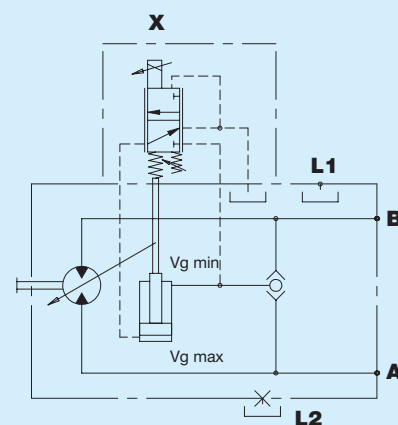


Pilotaggio

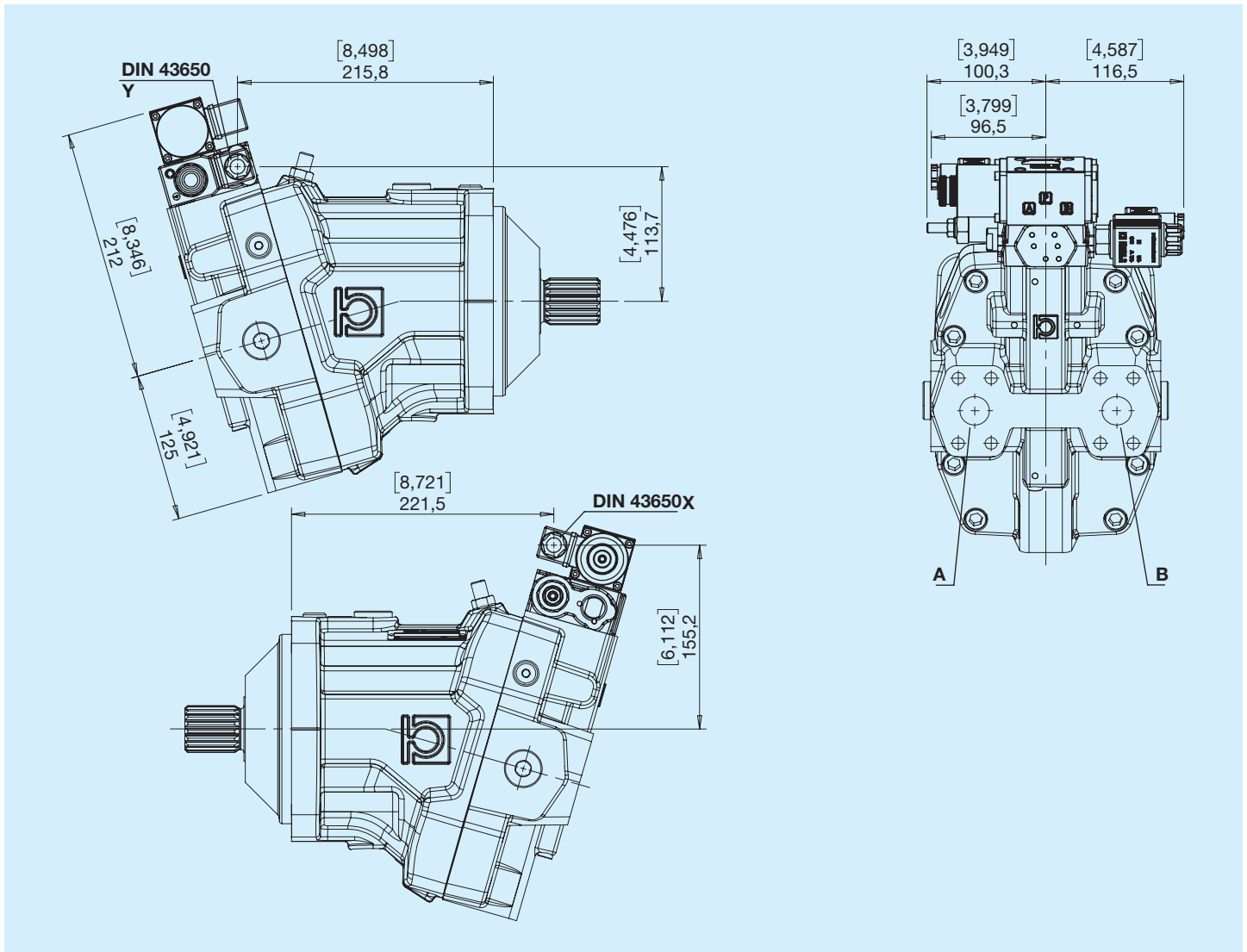
Ingresso	Rotazione
A	Sinistra
B	Destra



Schema idraulico

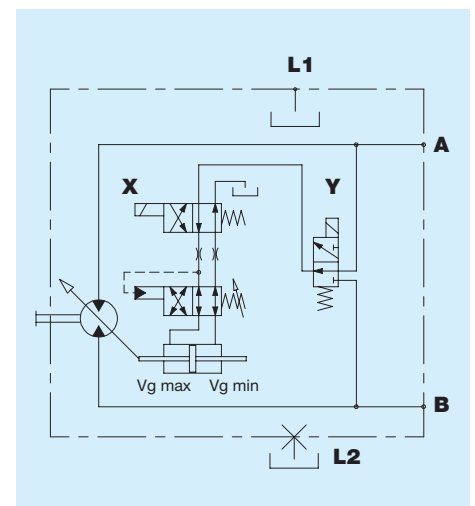


R Elettrico ON/OFF con pressure override e selettore di canale

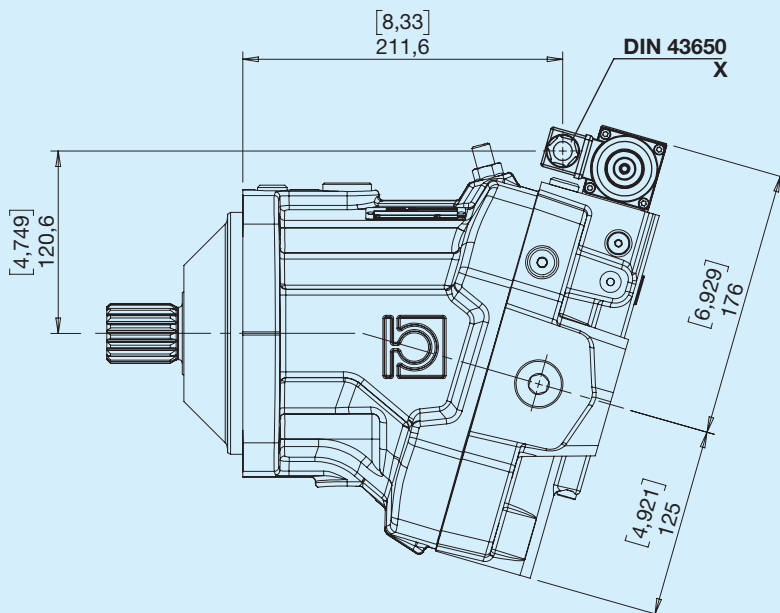
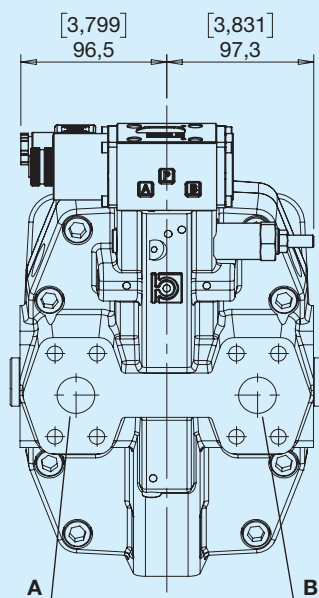


Ingresso	Rotazione
A	Sinistra
B	Destra

Schema idraulico

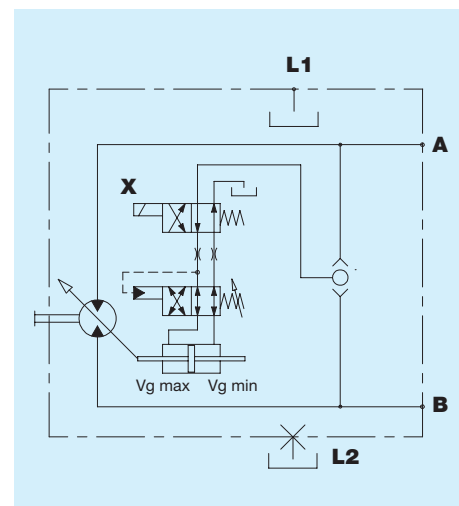


U Elettrico ON/OFF con pressure override

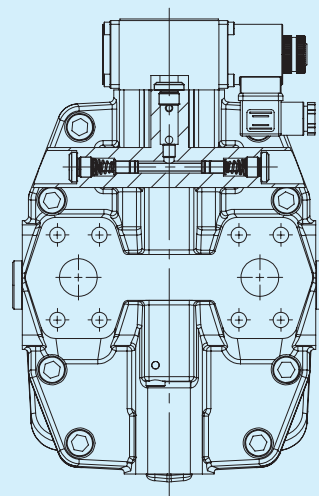
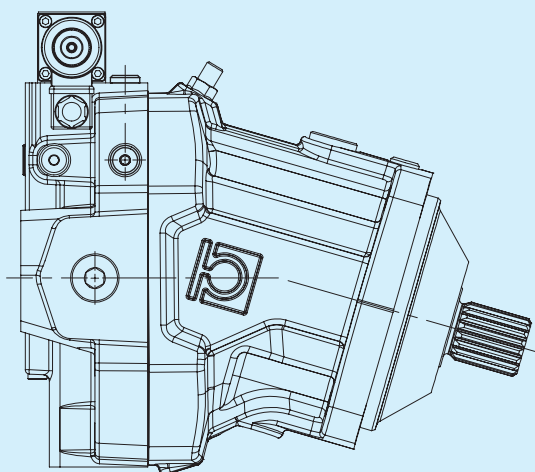


Ingresso	Rotazione
A	Sinistra
B	Destra

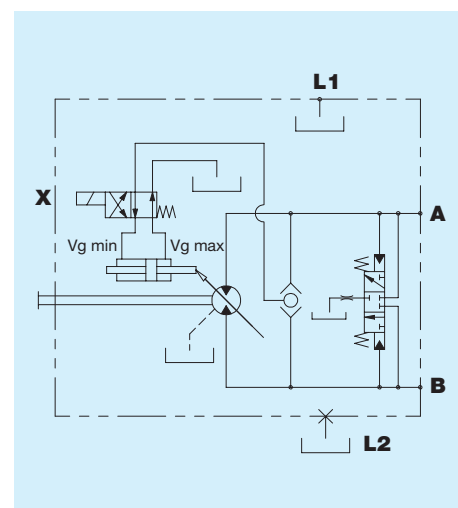
Schema idraulico



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

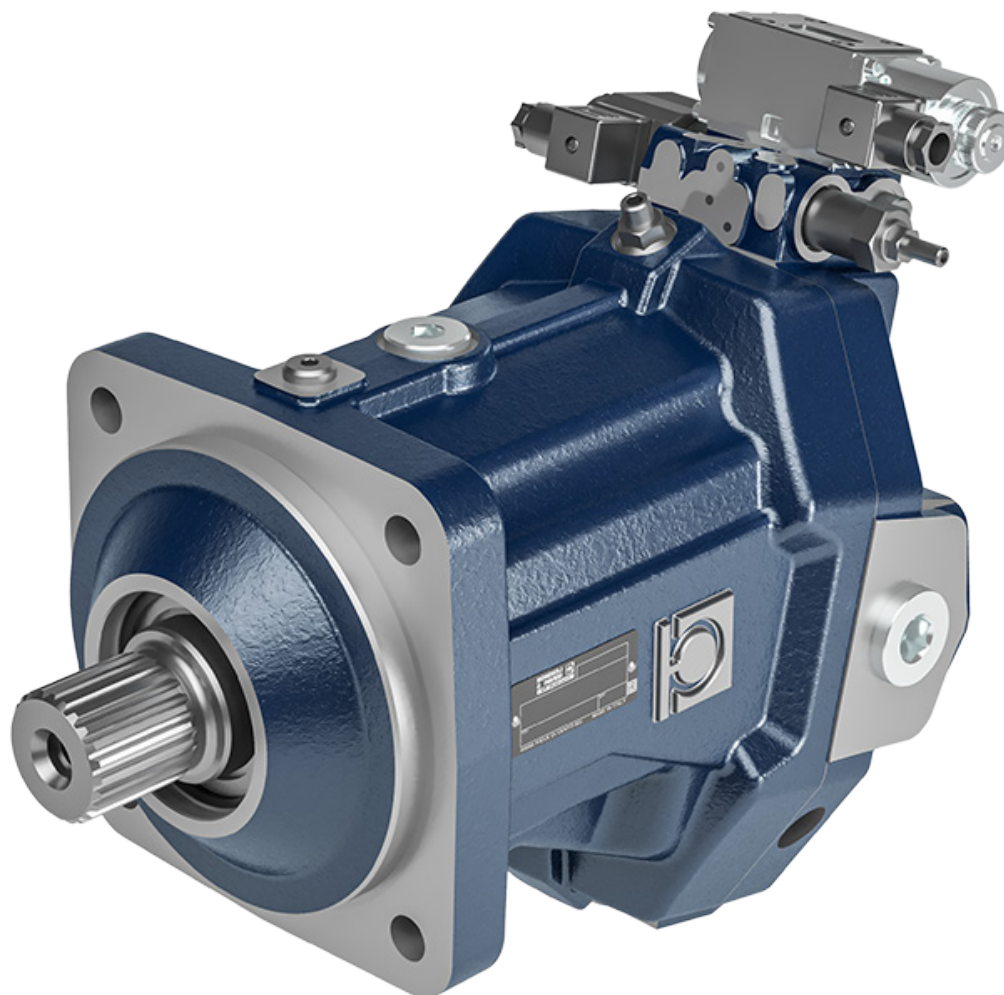


Schema idraulico

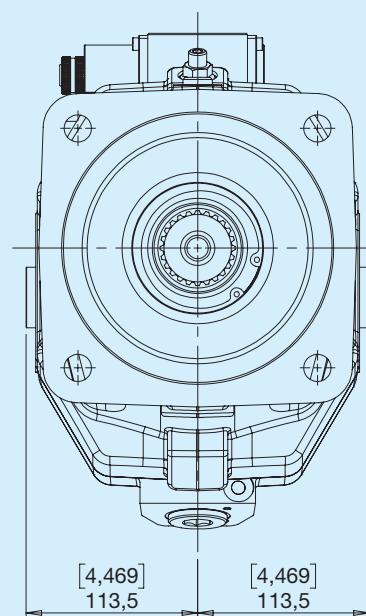
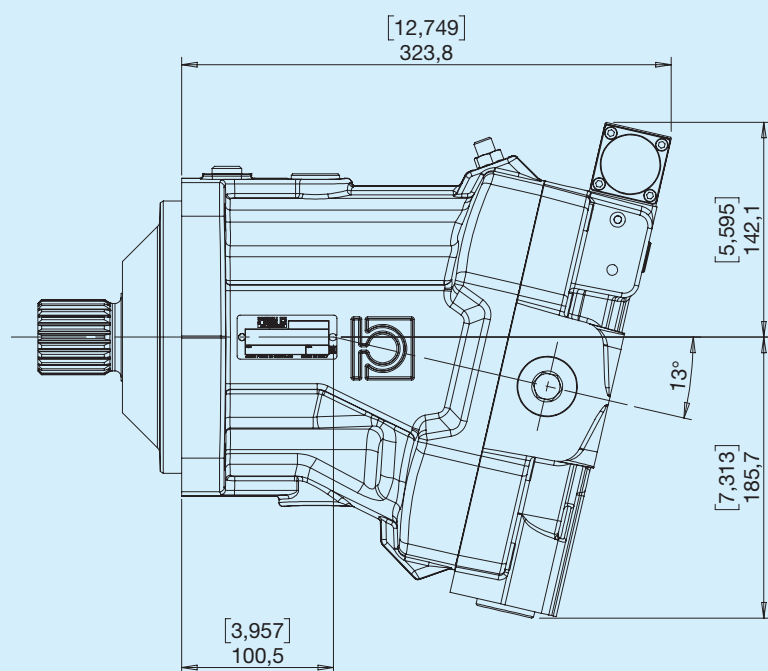


	1	2	3	4	5	6	7	8	9	10	11	12	13	14
HPBA														
1 2 3	Cilindrata standard													
	110					130								
4 5	Cilindrata minima													
	...													
6	Flange													
	I ISO 4 fori standard					P ISO 2 fori centraggio a cartuccia					S SAE D			
7	Alberi													
	B DIN 5480 W40x2x30x18					D DIN 5480 W45x2x30x21				9 SAE 13T 8/16 DP				
8	Tipo bocche													
	G Gas					U Unf				N Gas-Ingresso/Uscita SAE			M Unf-Ingresso/Uscita SAE	
9	Posizione bocche													
	P Posteriori					Y Posteriori distributore ruotato (non disponibile per comandi O - V - G)				J Laterali contrapposte distributore ruotato (non disponibile per comandi O - V - G)				
	L Laterali contrapposte													
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					C Verniciatura				V Valvola di flussaggio				
12 13 14	Esecuzioni speciali													
	...													

Motori a cilindrata variabile HPBA 160-200

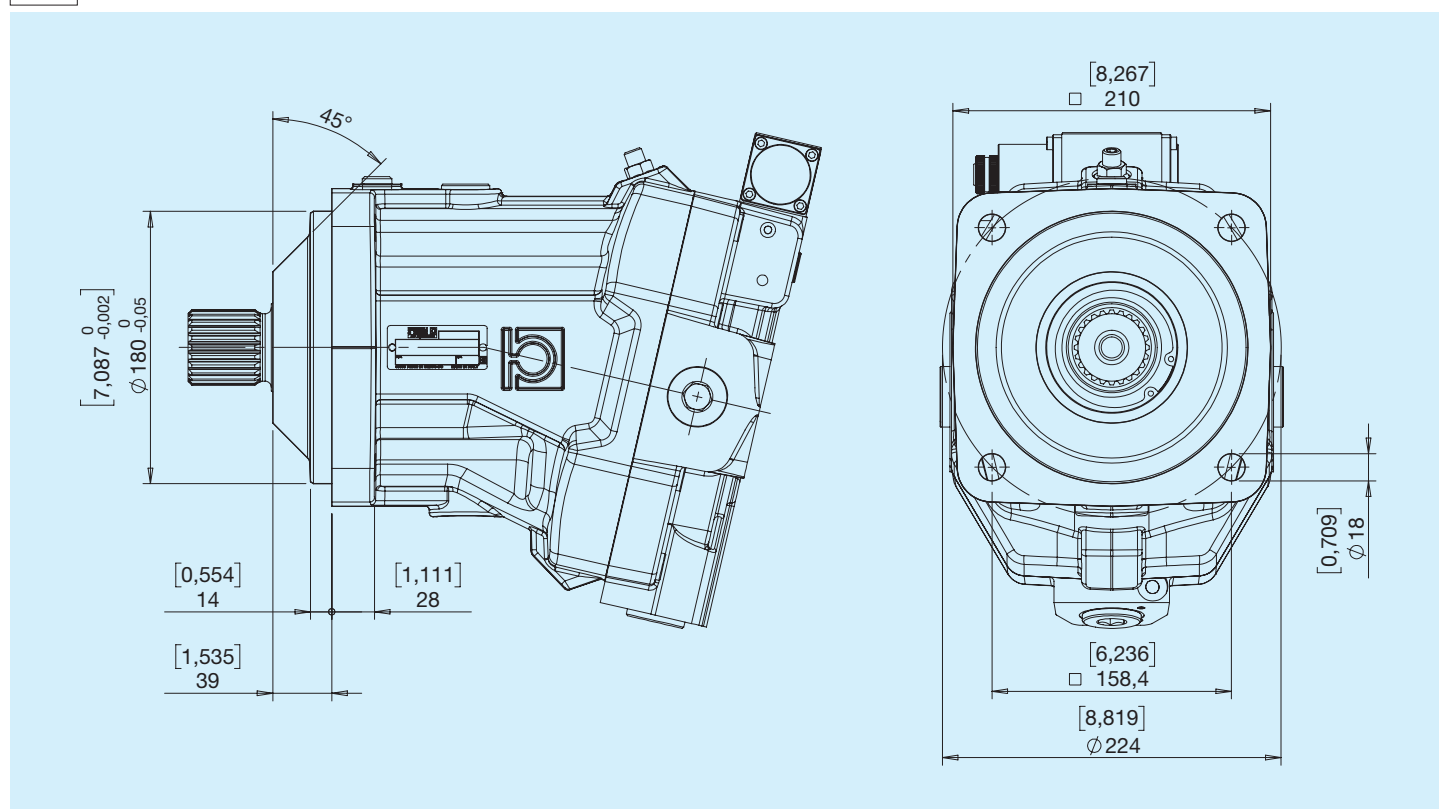


Prima di iniziare l'utilizzo leggere attentamente il documento ISTRUZIONI GENERALI D'IMPIEGO POMPE E MOTORI A PISTONI ASSIALI PER CIRCUITO CHIUSO.

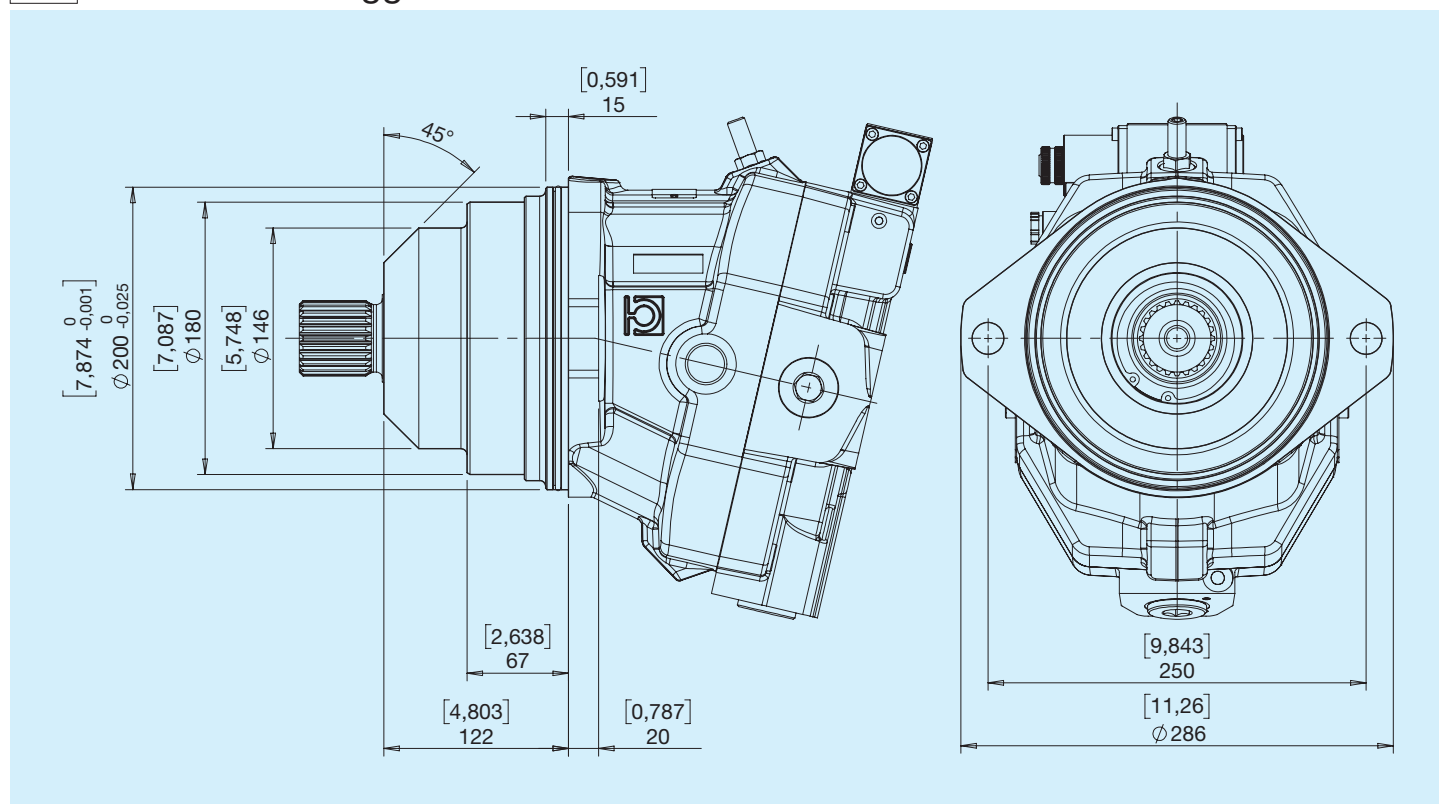


HPBA	Cilindrata teorica		Oscillante	Pressione Continua		Pressione intermittente		Pressione picco		Velocità di rotazione			Massa	
	cm ³	in ³		bar	psi	bar	psi	bar	psi	MAX (max V) min ⁻¹	MAX (min V) min ⁻¹	MIN min ⁻¹	kg	lbs
160	160	9,77	25	380	5510	400	5800	450	6525	3100	4000	500	80	176
200	200	12,20	25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

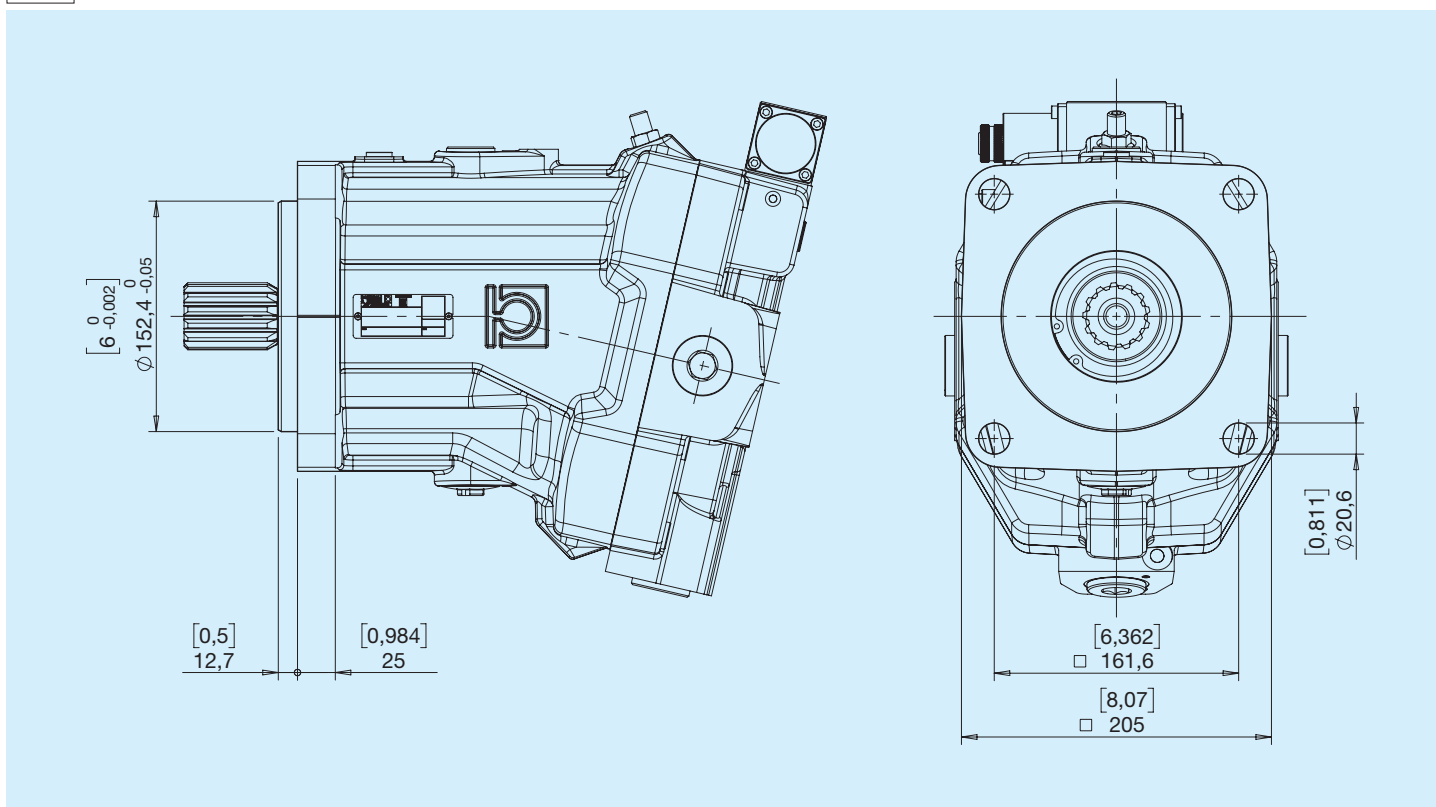
I ISO 4 fori standard



P ISO 2 fori centraggio a cartuccia

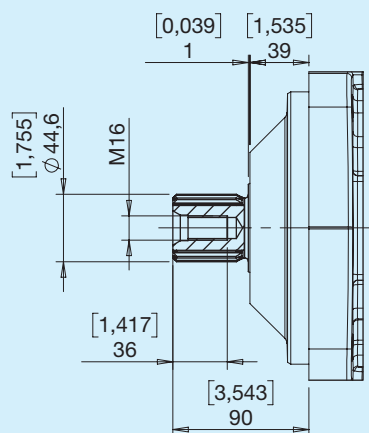


S SAE D



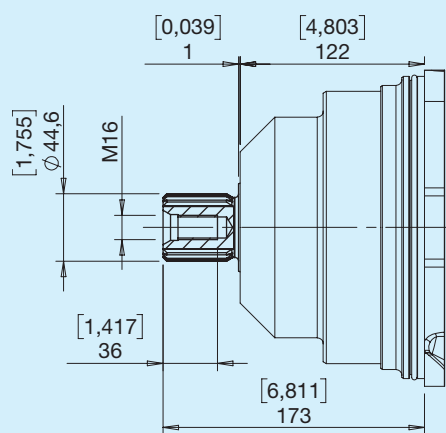
D DIN 5480 W45x2x30x21

Versione ISO 4 fori standard



Coppia Max 1980 Nm

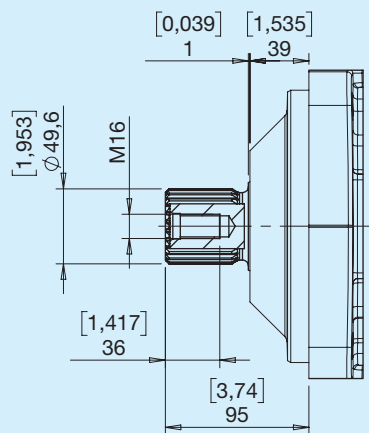
Versione ISO 2 fori a cartuccia



Coppia Max 1980 Nm

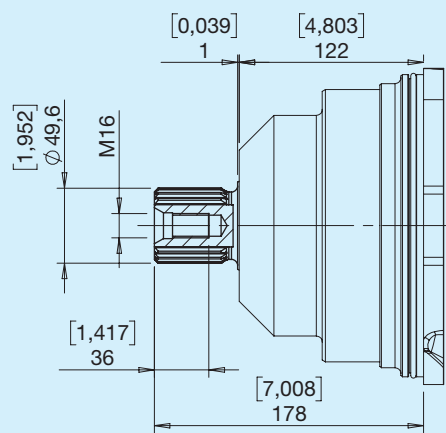
E DIN 5480 W50x2x30x24

Versione ISO 4 fori standard



Coppia Max 2860 Nm

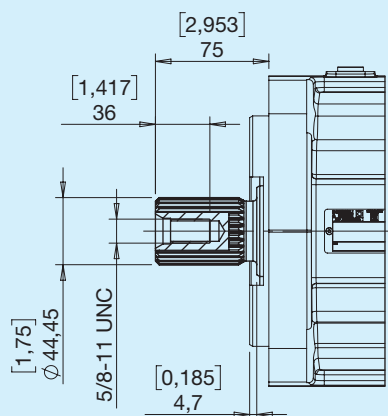
Versione ISO 2 fori a cartuccia



Coppia Max 2860 Nm

N SAE 27T 16/32 DP

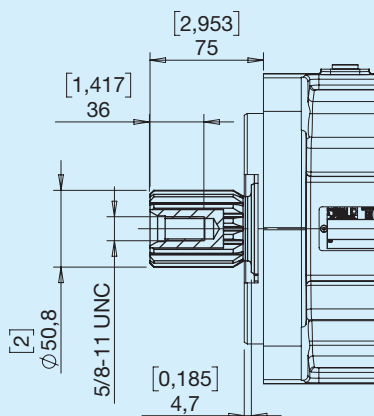
Versione SAE D



Coppia Max 2700 Nm

X SAE 15T 8/16 DP

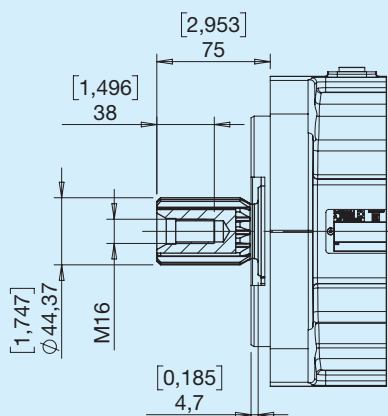
Versione SAE D



Coppia Max 3400 Nm

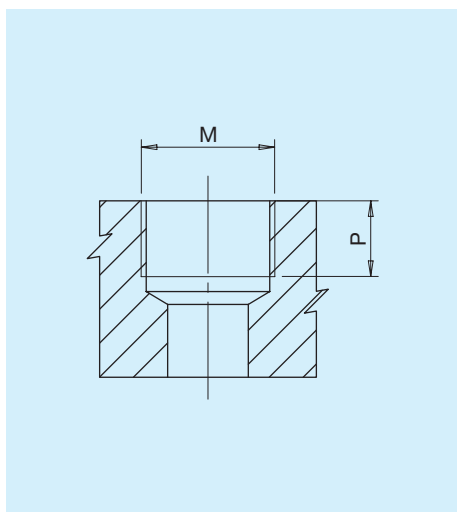
9 SAE 13T 8/16 DP

Versione SAE D



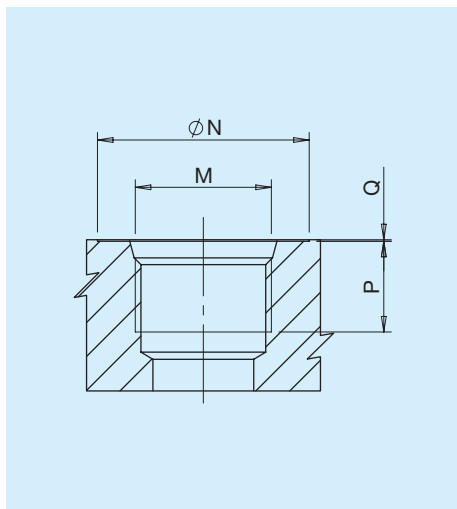
Coppia Max 2600 Nm

Tipo G



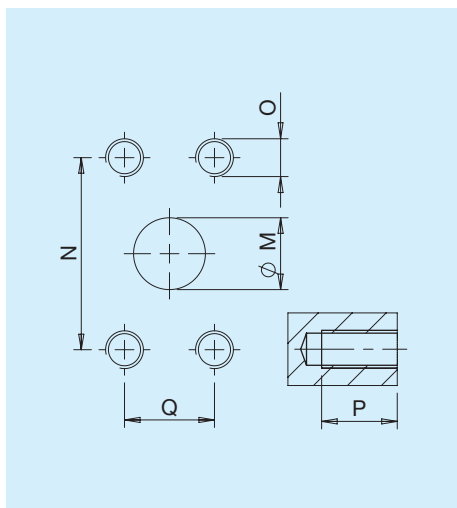
Tipo	M		P	
		Nm	mm	in
G2	Port ISO 1179-1 - G 1/4	17	8	0,31
G6	Port ISO 1179-1 - G 3/4	90	19	0,75
G7	Port ISO 1179-1 - G 1	160	19	0,75

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

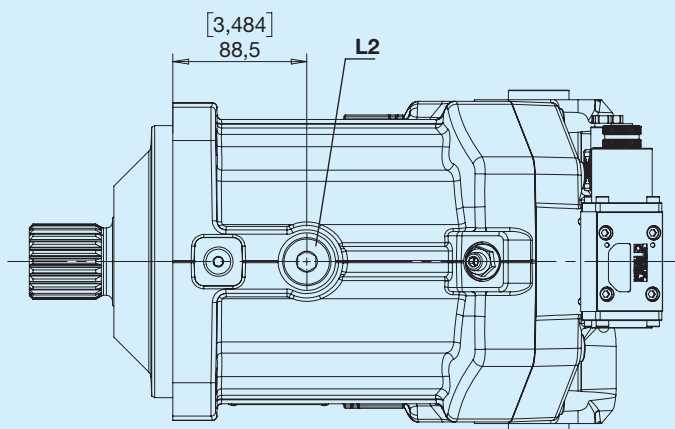
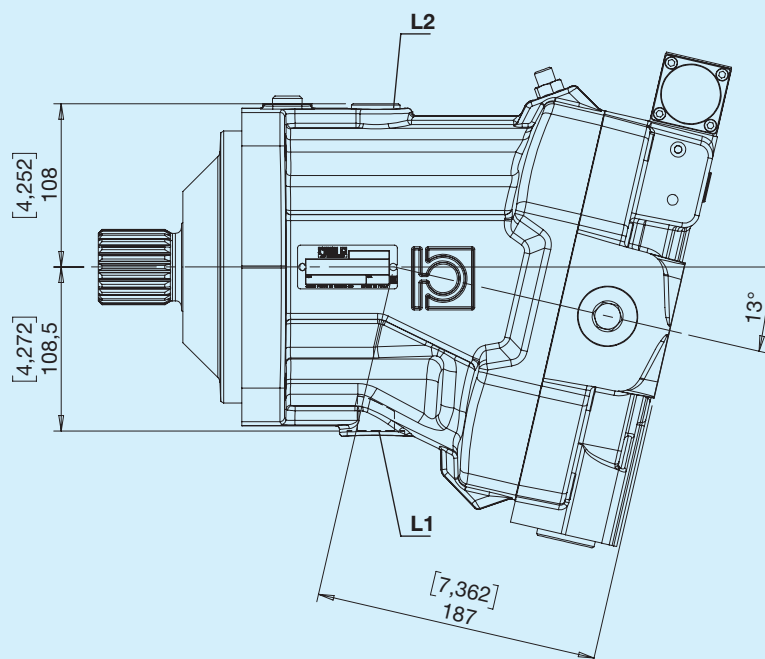
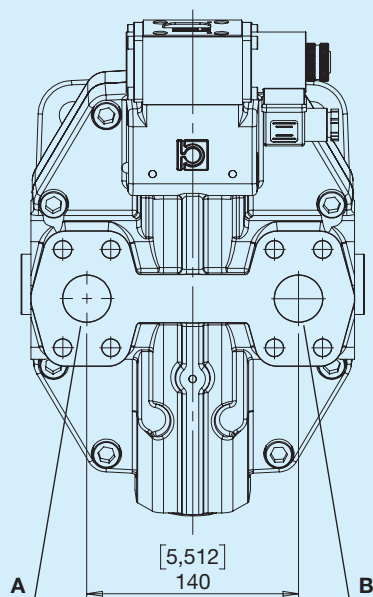


Tipo	M		N		Q		P		O	Nm
	mm	in	mm	in	mm	in	mm	in		
N8	32	1,26	66,7	2,62	31,8	1,25	20	0,79	M12	70

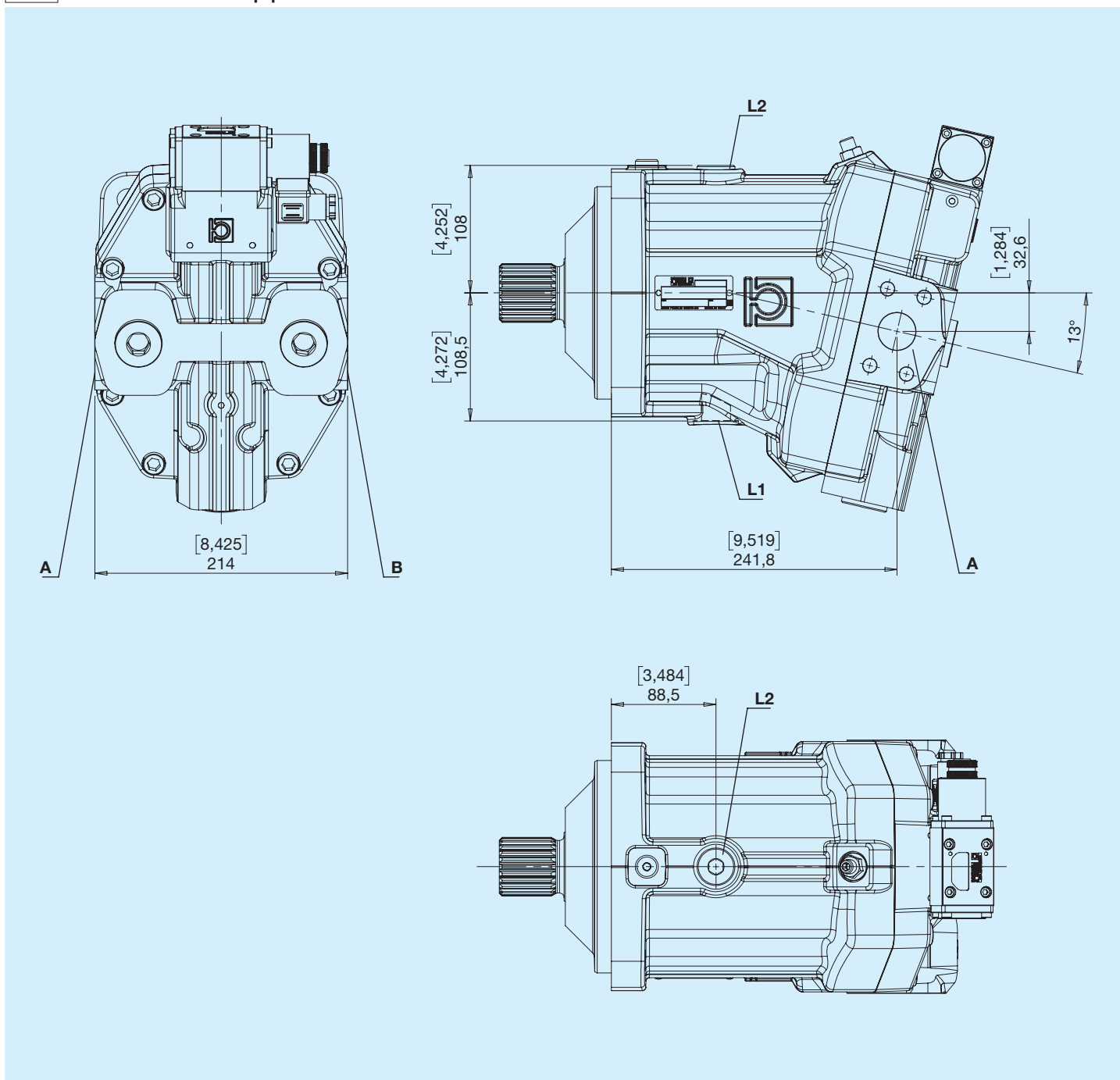
Combinazioni

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

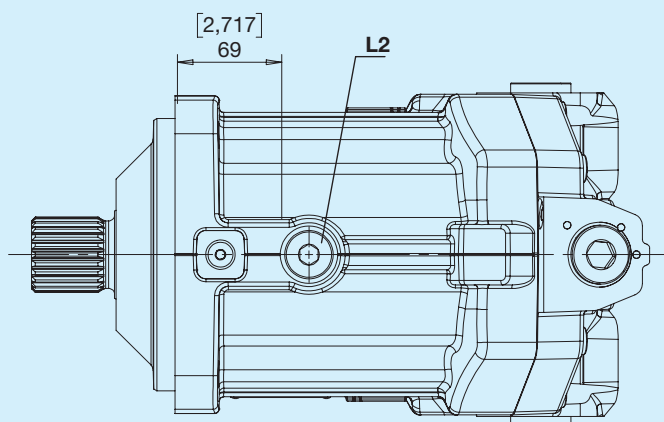
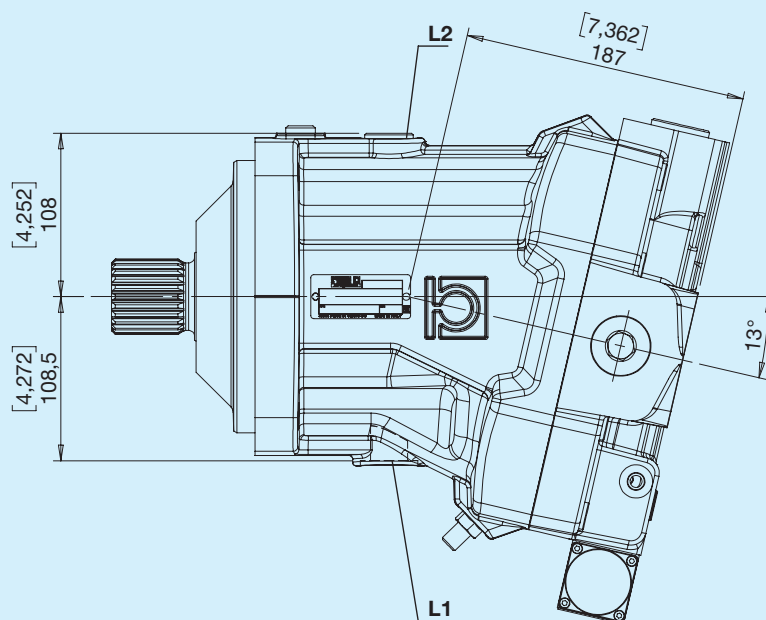
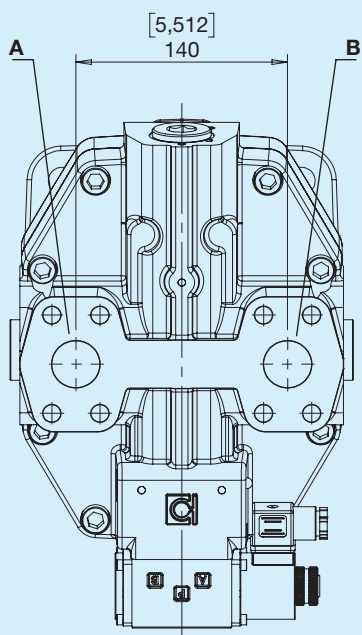
P Posteriori



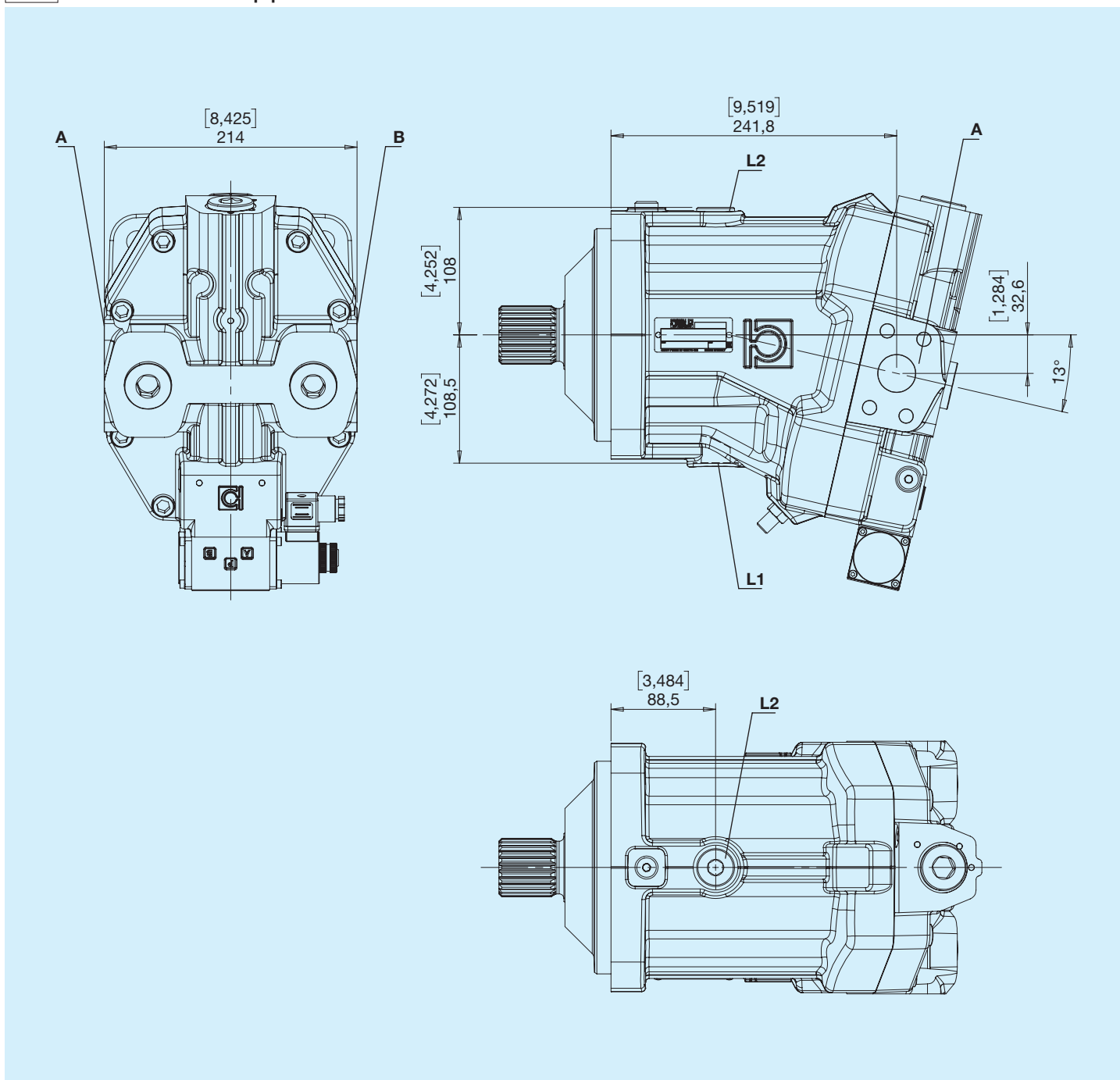
L Lateralì contrapposte



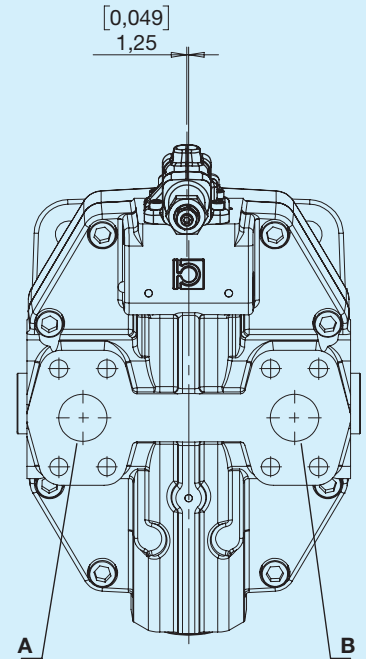
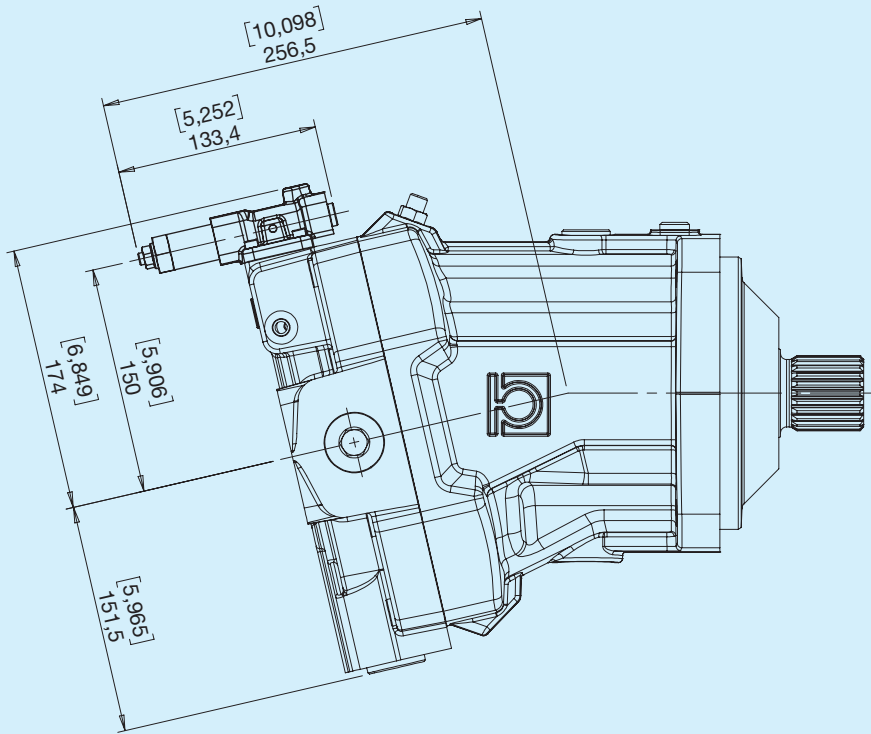
Y Posteriori distributore ruotato



J Lateralì contrapposte distributore ruotato

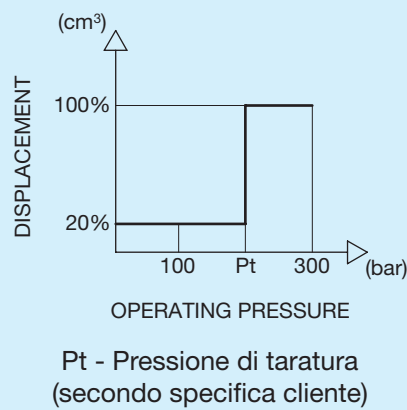


A Idraulico automatico ON/OFF

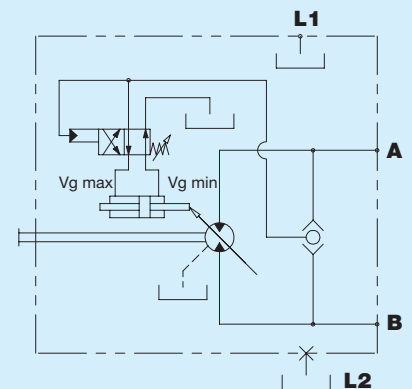


Ingresso	Rotazione
A	Sinistra
B	Destra

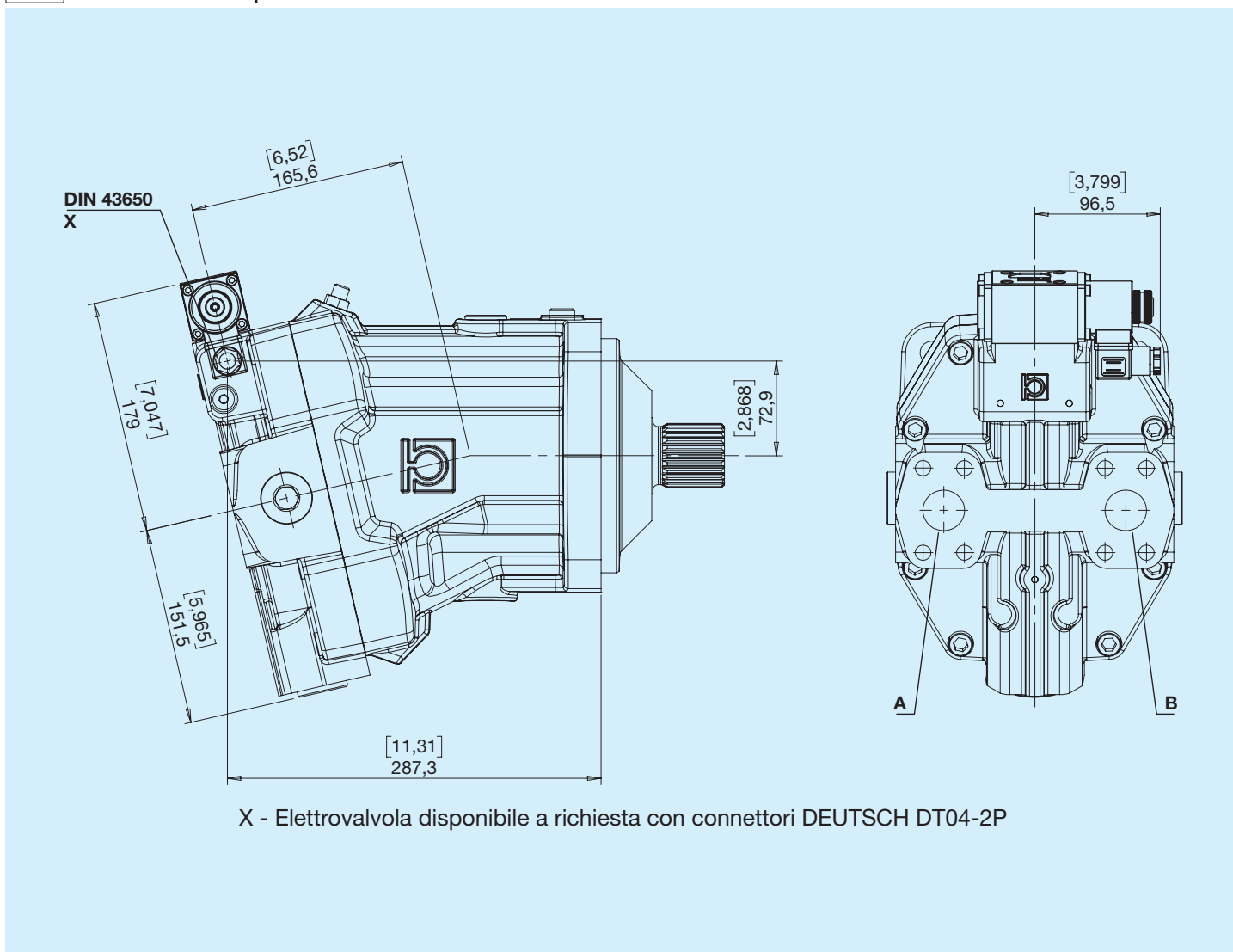
Pilotaggio



Schema idraulico

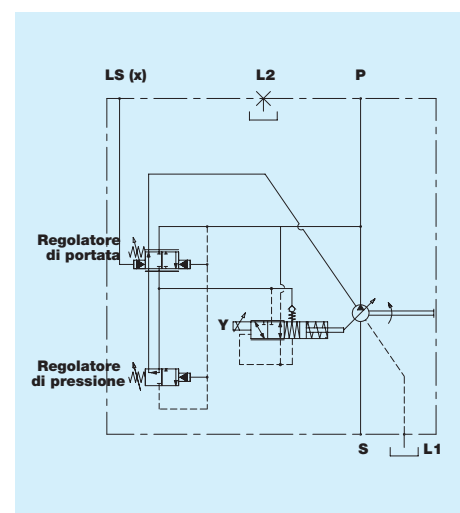


E Elettrico a 2 posizioni 12V

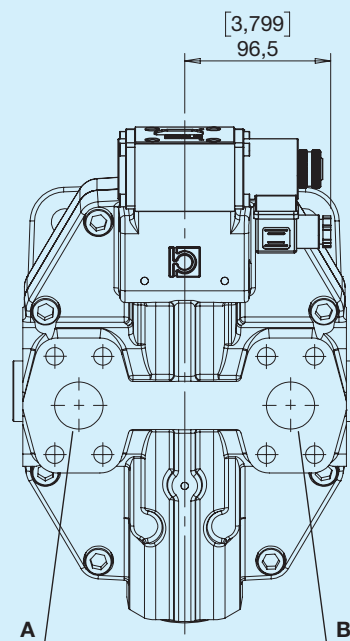
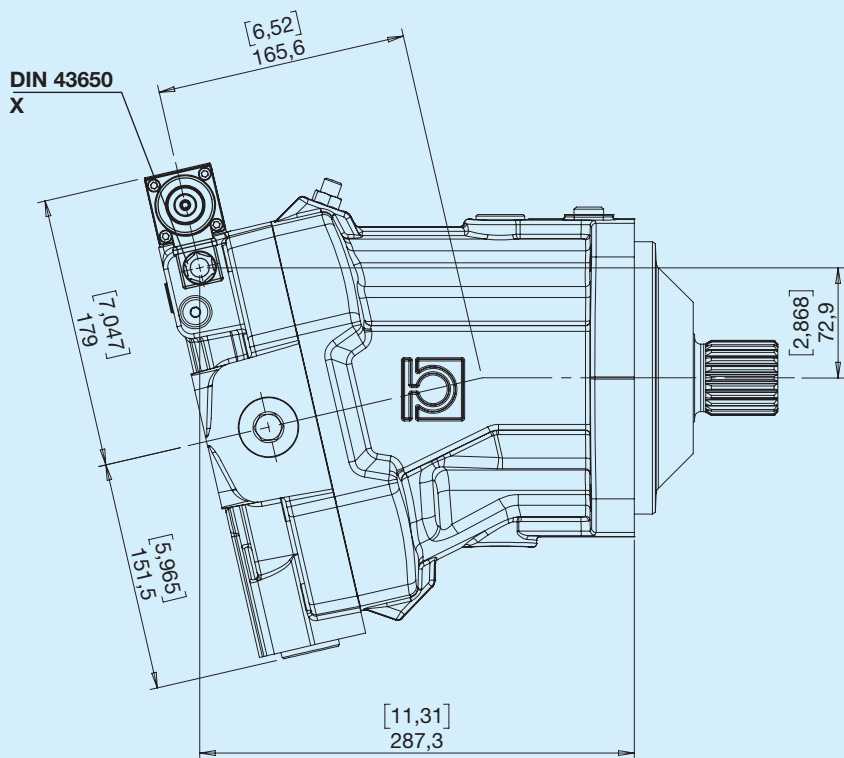


Ingresso	Rotazione
A	Sinistra
B	Destra

Schema idraulico



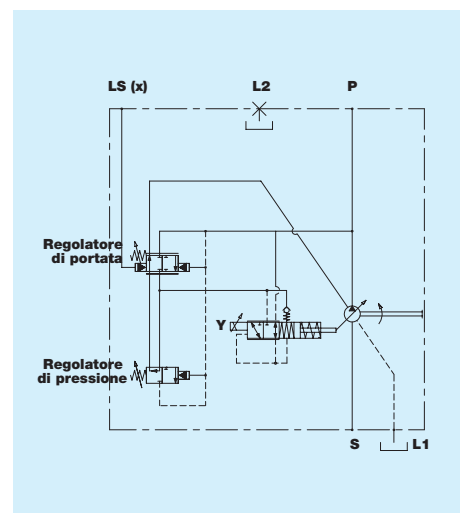
F Elettrico a 2 posizioni 24V



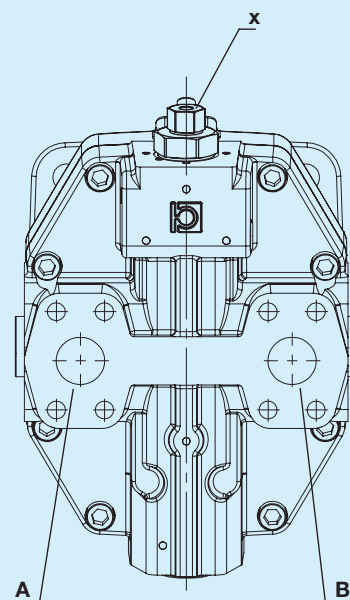
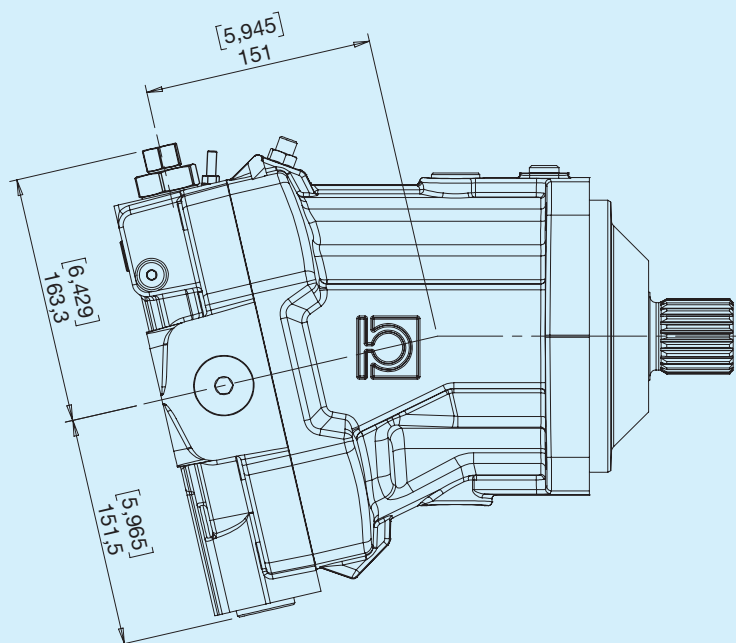
X - Elettrovalvola disponibile a richiesta con connettori DEUTSCH DT04-2P

Ingresso	Rotazione
A	Sinistra
B	Destra

Schema idraulico



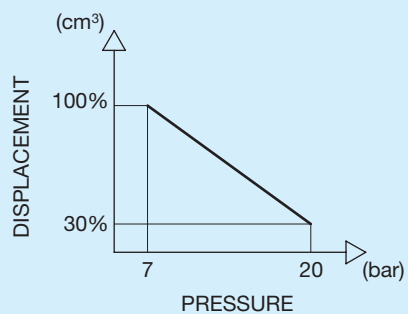
G Idraulico proporzionale



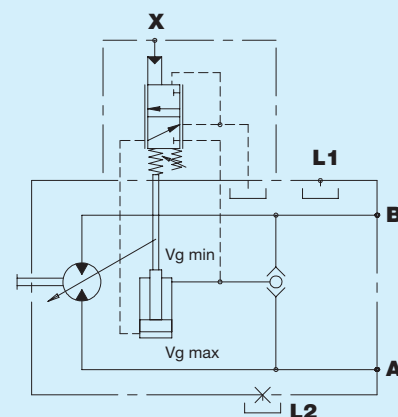
X - Pilotaggio G1/8

Pilotaggio

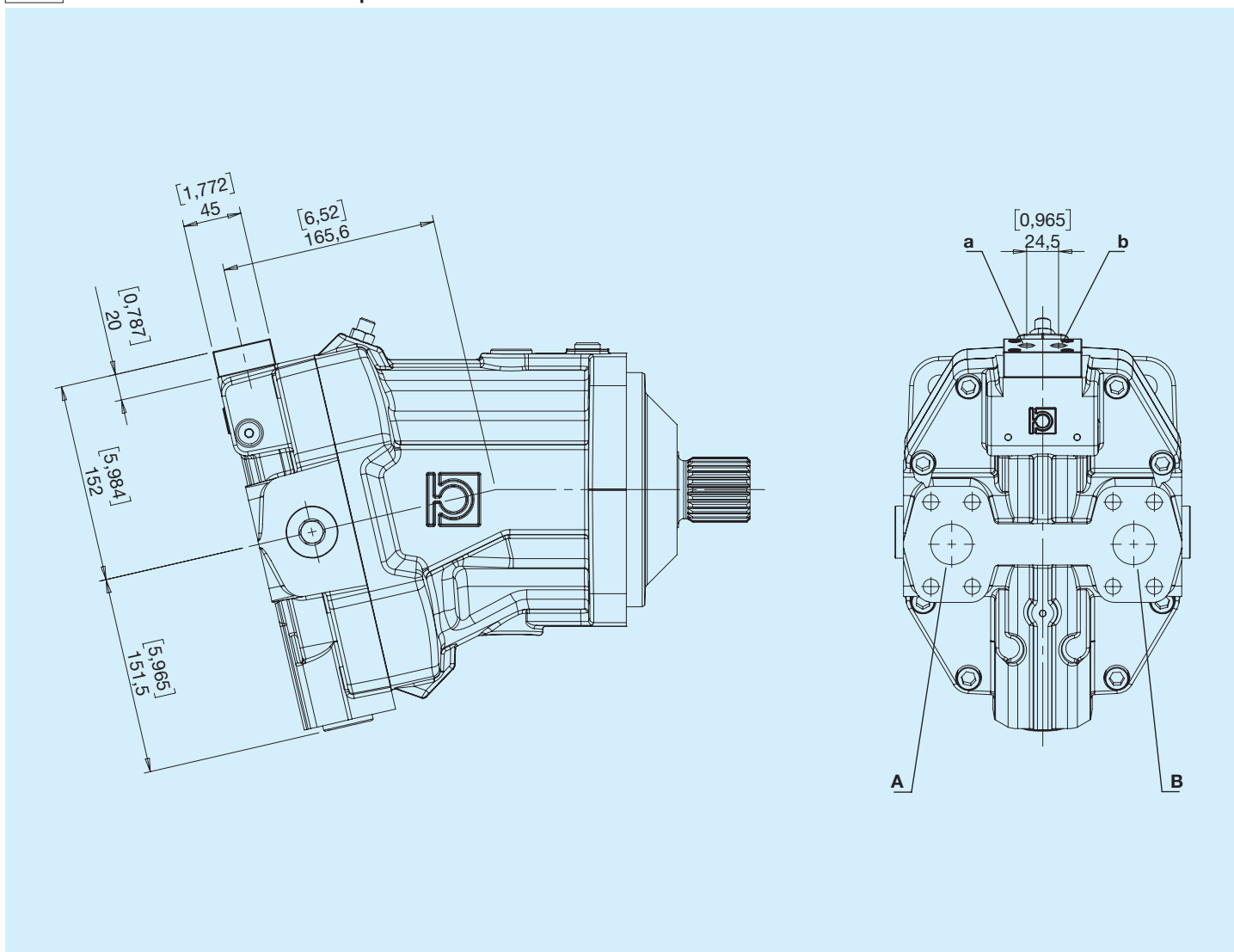
Ingresso	Rotazione
A	Sinistra
B	Destra



Schema idraulico

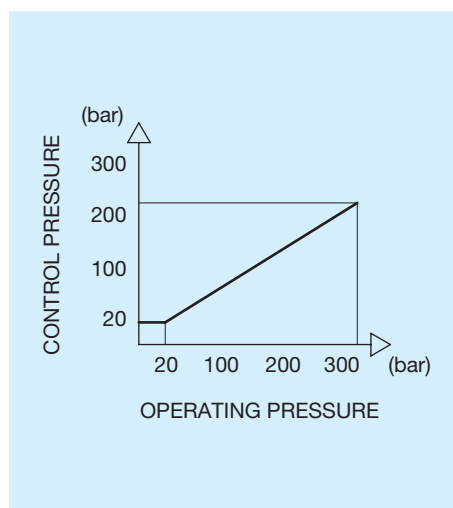


H Idraulico diretto a 2 posizioni

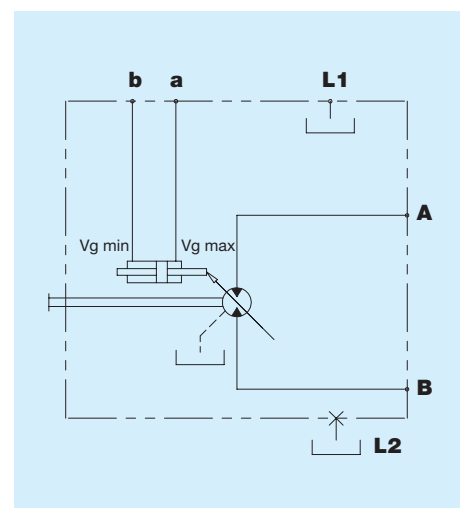


Pilotaggio

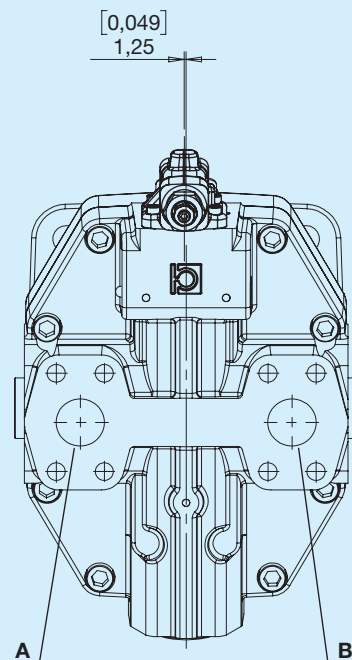
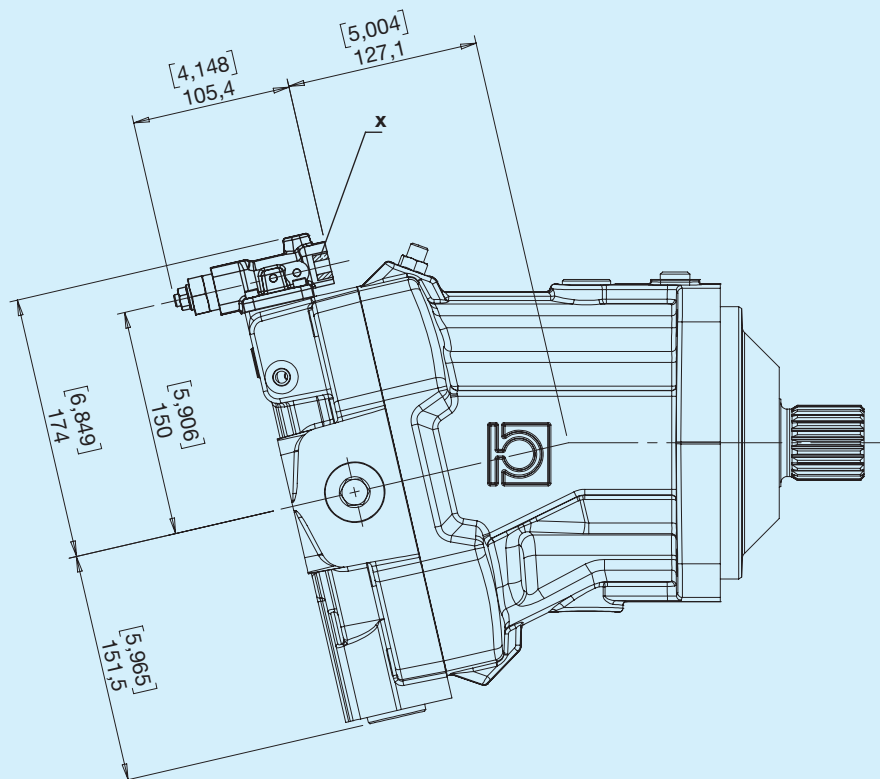
Ingresso	Rotazione
A	Sinistra
B	Destra



Schema idraulico



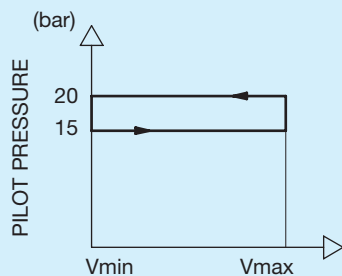
K Idraulico a 2 posizioni a bassa pressione



X - Pilotaggio G1/8

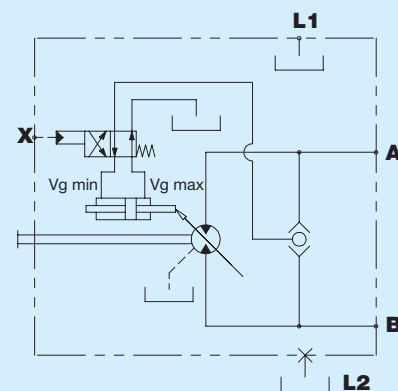
Ingresso	Rotazione
A	Sinistra
B	Destra

Diagramma

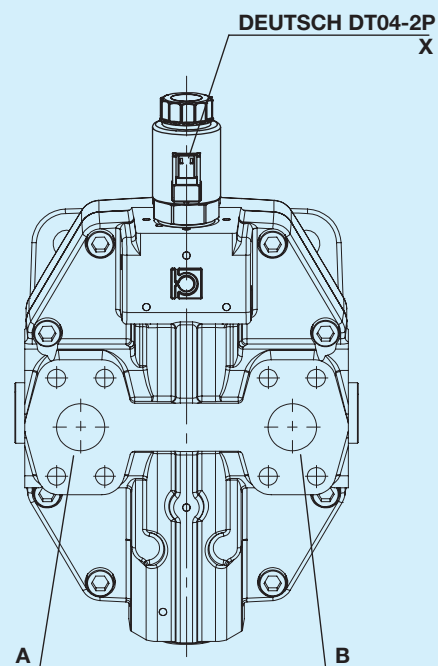
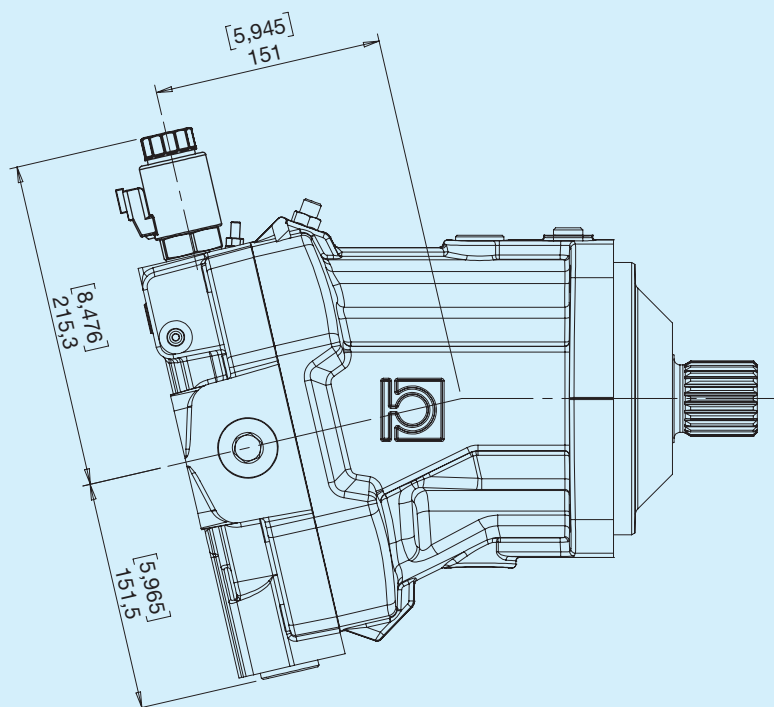


Normalmente il motore è in cilindrata massima. Applicando una pressione esterna sul pilotaggio, si ottiene la variazione di cilindrata alla minima. Per una corretta variazione della cilindrata attenersi ai valori di pilotaggio riportati nel diagramma.

Schema idraulico



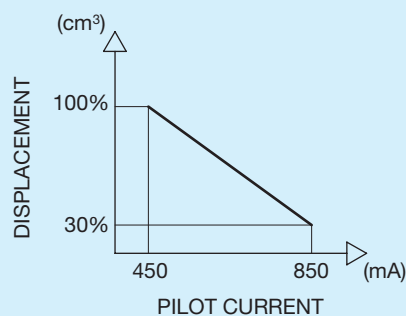
O Elettrico proporzionale retroazionato 12V



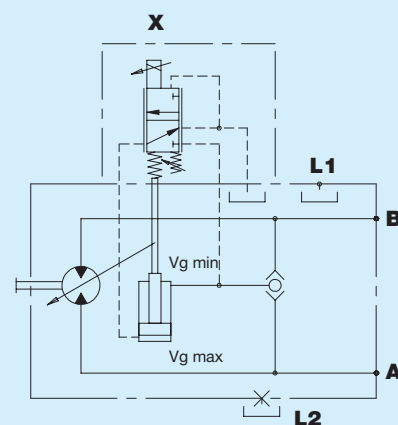
X - Elettrovalvola

Ingresso	Rotazione
A	Sinistra
B	Destra

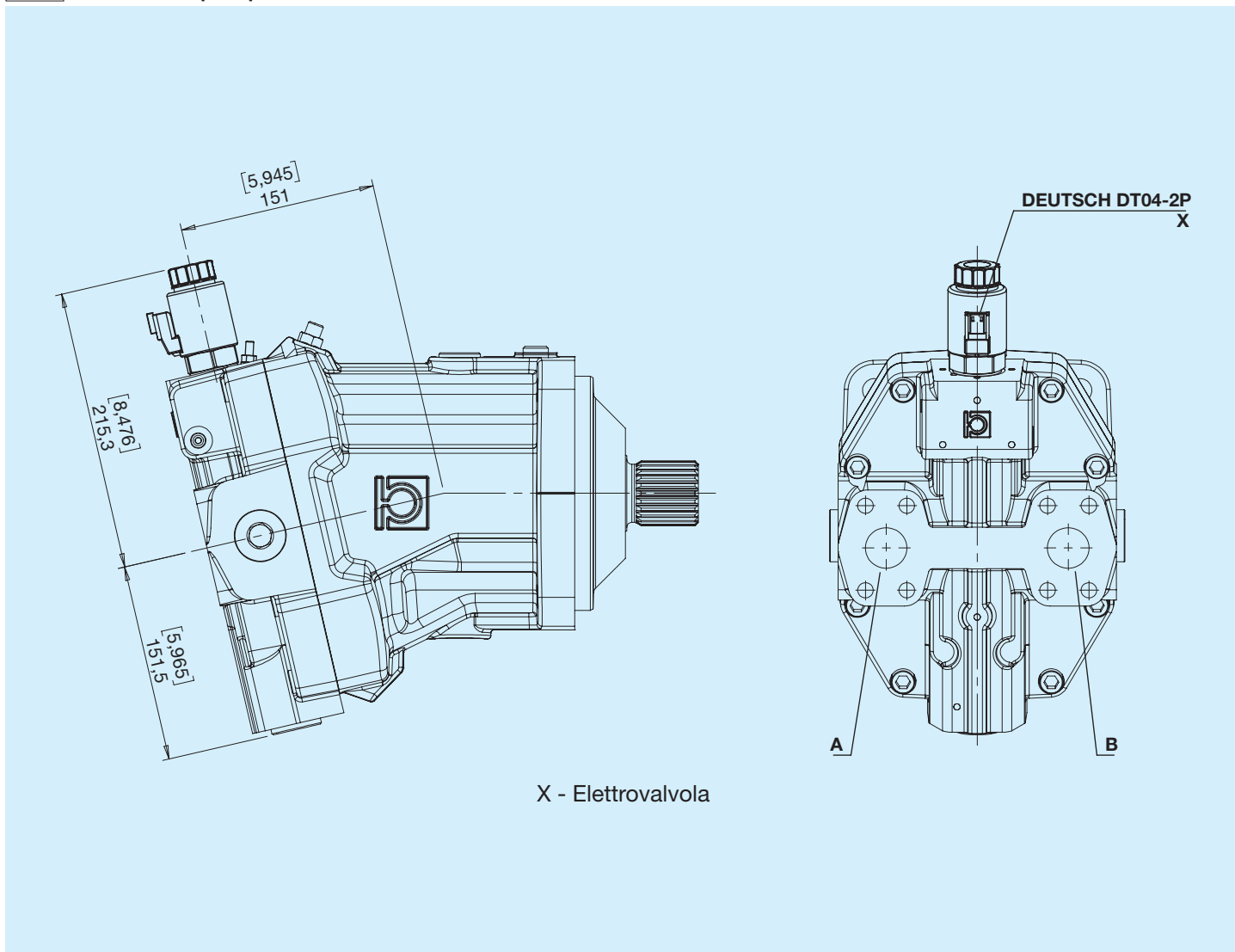
Pilotaggio



Schema idraulico

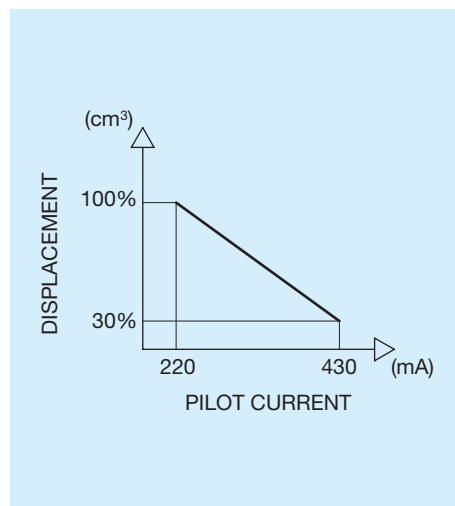


V Elettrico proporzionale retroazionato 24V

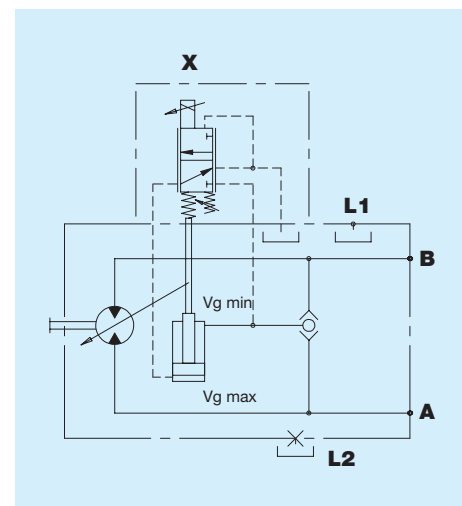


Pilotaggio

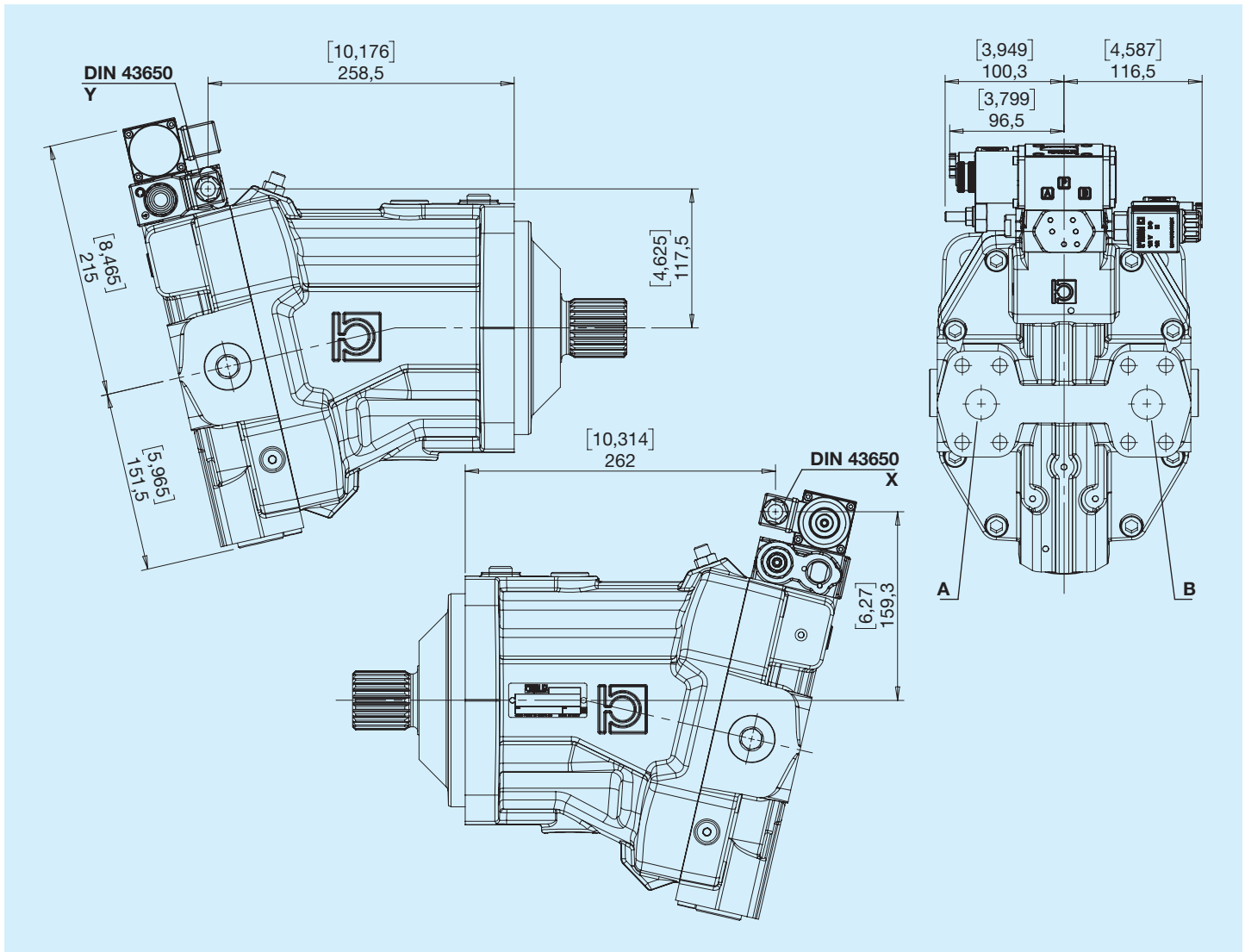
Ingresso	Rotazione
A	Sinistra
B	Destra



Schema idraulico

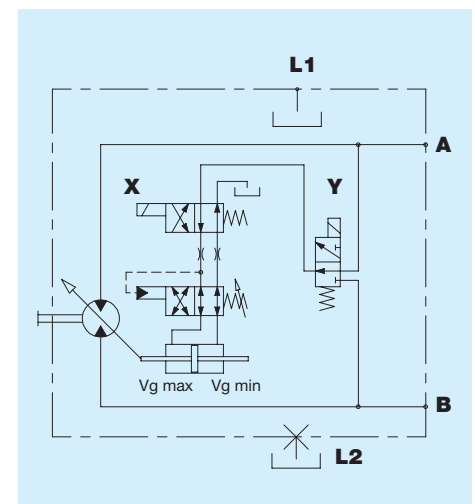


R Elettrico ON/OFF con pressure override e selettore di canale

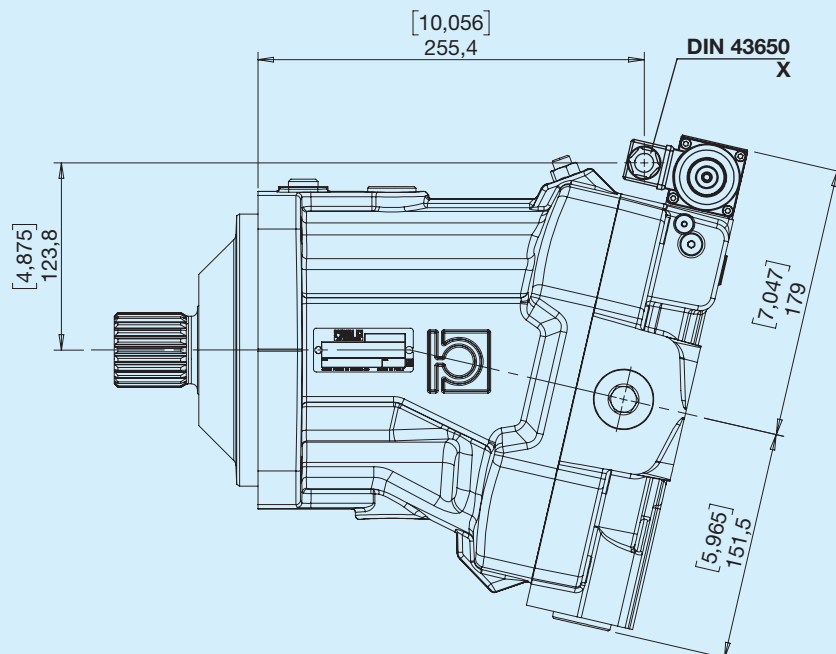
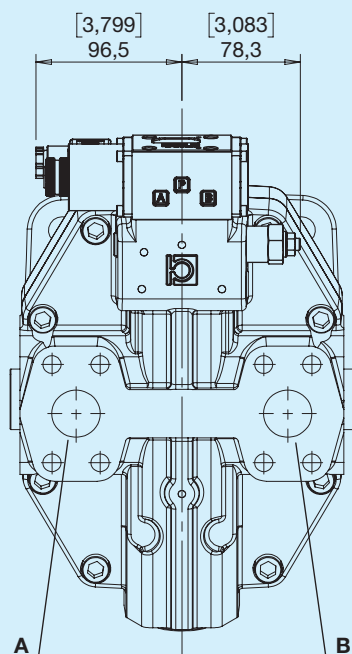


Ingresso	Rotazione
A	Sinistra
B	Destra

Schema idraulico

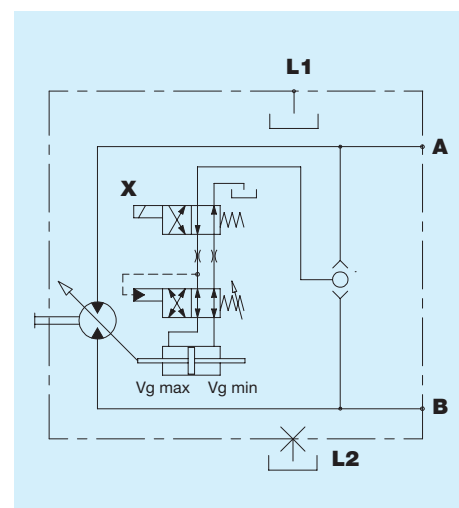


U Elettrico ON/OFF con pressure override

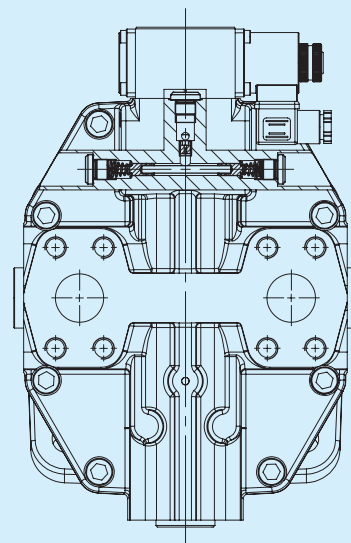
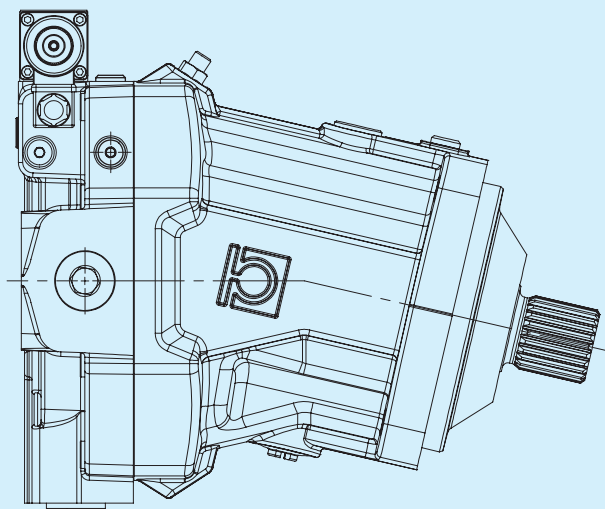


Ingresso	Rotazione
A	Sinistra
B	Destra

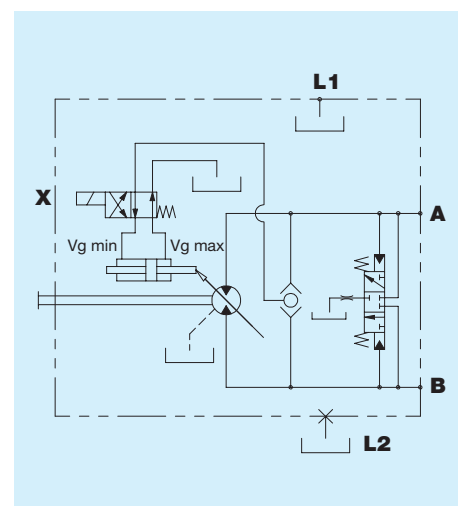
Schema idraulico



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													
Cilindrata standard													
160			200										
Cilindrata minima													
...													
Flange													
I ISO 4 fori standard					P ISO 2 fori centraggio a cartuccia					S SAE D			
Alberi													
D DIN 5480 W45x2x30x21					N SAE 27T 16/32 DP					9 SAE 13T 8/16 DP			
E DIN 5480 W50x2x30x24					X SAE 15T 8/16 DP								
Tipo bocche													
G Gas					U Unf					N Gas-Ingresso/Uscita SAE			
Posizione bocche													
P Posteriori					Y Posteriori distributore ruotato (non disponibile per comandi O - V - G)					J Lateralì contrapposte distributore ruotato (non disponibile per comandi O - V - G)			
L Lateralì contrapposte													
Comandi													
A Idraulico automatico ON/OFF					G Idraulico proporzionale					O Elettrico proporzionale retroazionato 12V			
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													
0 Nessuna opzione					C Verniciatura					V Valvola di flussaggio			
Esecuzioni speciali													
...													