



## 2.2.3

# V40G SERIES

## Swash-plate Type Axial Piston Variable Displacement Pump

V40G series axial piston pump is a ultrahigh pressure closed circuit pump, which can meet the application requirements of customers for harsh working conditions such as high pressure, high rotational speed and frequent impact.

Suitable for a ultrahigh-pressure closed circuit

Size (cc/rev):	145	175	215	280
Rated pressure (bar):	450	450	450	450
Max. pressure (bar):	500	500	500	500



## Contents

Technical Data	02-03
Type introduction	04-06
Hydraulic fluid	07
Shaft seal	08
E - Electrical displacement control	09
Proportional control, H2 - hydr., pilot-pressure related	10
Control principle & Installation size	
·V40G 145 type	11-15
·V40G 175 type	16-20
·V40G 215type	21-25
·V40G 280 type	26-30

## Features

- ◁ Variable axial piston pump of swashplate design for hydrostatic drives in closed circuit.
- ◁ Flow direction changes smoothly when the swashplate is moved through the neutral position.
- ◁ Two pressure relief valves are installed on the high-pressure side to prevent overload.
- ◁ The built-in charge pump acts as charge pump and control pump.
- ◁ The maximum charge pressure is limited by the built-in low pressure relief valve.
- ◁ New rotary components and bearings, make the transmission efficiency improved, and the input speed increased.
- ◁ The V40G pump adopts an integrated design at the rear of the housing to reduce leaking points.
- ◁ Optimized shell design to reduce vibration and noise.
- ◁ Electric proportional displacement control meets the application requirements of multiple industries.
- ◁ Various oil outlet connection methods help to optimize pipeline connection.
- ◁ V40G pump can be optionally equipped with a flush valve, which can be directly installed on the pump body.

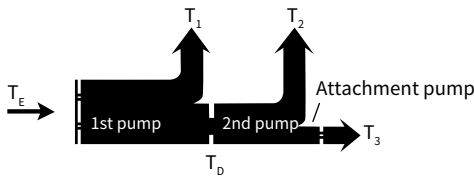
## Technical data

Size		145	175	215	280
Displacement (cc/rev)		145.3	175.4	215.7	280
Speed	Rated (rpm)	2850	2650	2500	2400
	Max. (rpm)	3000	2800	2650	2550
	Min. (rpm)	500	500	500	500
Pressure	Rated (bar)	450	450	450	450
	Max. (bar)	500	500	500	500
	Minimum low loop pressure (bar) (Above charge pump)	10	10	10	10
Charge pump displacement (cc/rev)		32	26/39	47	60
Charge pressure (relative to Charge pump)	Max. (bar)	40	40	40	40
Casting pressure	Rated (bar)	2	2	2	2
	Max. (bar)(Short-time peak pressure)	5.0	5.0	5.0	5.0
Suction pressure ( Absolute pressure )	Rated (bar) Oil viscosity $\leq 30\text{mm}^2/\text{s}$	0.8	0.8	0.5	0.8
	Max. (bar)	6	6	5	5
Oil viscosity (mm <sup>2</sup> /s)		10~1000, Best range: 16~36			
Oil temperature (°C)		-20~95			
Oil cleanliness		ISO 4406 Class 20/18/15 or higher			
Weight ( w/o auxiliary flange ) (Kg)		110	115	146	179.4

## Technical data

Permissible input and through-drive torques						
Size			145	175	215	280
Torque at $V_{g\max}$ and $\Delta p = 430$ bar Nm	T		992	1197	1471	1916
Maximum input torque at drive shaft (Nm)						
ANSI B92.1b	1 3/4 in 13T 8/16 DP	$T_{E\max}$	1640	1640		
	1 3/4 in 27T 16/32 DP	$T_{E\max}$	1830			
	2 in 15T 8/16DP	$T_{E\max}$	2670		2670	2670
	2 1/4 in 17T 8/16 DP	$T_{E\max}$	4070	4070	4070	4070
	W50×2×24×9g	$T_{E\max}$	3140	3140		
	W55×2×26×9gw	$T_{E\max}$			4350	4350
Maximum through-drive torque (Nm)		$T_{D\max}$	1760	1760	2641	2641

### •Torque distribution



V40E	1st pump	$T_1$
	2nd pump	$T_2$
Attachment pump		$T_3$
Input torque		$T_E = T_1 + T_2 + T_3$
		$T_E < T_{E\max}$
Through-drive torque		$T_{D1}$
		$T_{D2}$

## Type introduction

V40	G	280	E1	A	D	/	R	N	E3	1	FD	D4	8	D	-	K
①	②	③	④	⑤	⑥		⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭		⑮

### Product series

①	Variable piston pump of swashplate in closed circuit	V40
---	--	-----

### Nominal pressure

②	nominal pressure 450 bar	G
---	--------------------------	---

### Displacement

③	Displacement cc/rev	145	175	215	280
---	---------------------	-----	-----	-----	-----

### Control mode

		145	175	215	280	Code
④	Proportional control, electric U = 12 V DC	●	●	●	●	E1
	Proportional control, electric U = 24 V DC	●	●	●	●	E2
	Hydraulic pilot proportional control	●	●	●	●	H2

### DA control valve

		145	175	215	280	Code
⑤	Without swivel DA control valve	●	●	●	●	无
	Swivel DA control valve				●	A

### Pressure cut-off

⑥	Without pressure cut-off	Blank
	Pressure cut-off	D

### Rotation

⑦	Right hand (clockwise)	R
	Left hand (counter-clockwise)	L

### Sealing material

⑧	NBR (nitrile rubber)	N
	Shaft seal in FKM (fluoroelastomer)	

## Type introduction

### Mounting flangew and drive shaft

⑨	Mounting flange	Drive shaft	145	175	215	280	Code
	SAE D J744-152-2/4	ANSI B92.1b 1 3/4 in 13T 8/16 DP	● ●				
ANSI B92.1b 1 3/4 in 27T 16/32 DP		●					D2
ANSI B92.1b 2 in 15T 8/16 DP		●					D3
ANSI B92.1b 2 1/4 in 17T 8/16 DP		● ●					D7
DIN 5480 W50×2×24×9g		● ●					D6
SAE E J744-165-4		ANSI B92.1b 1 3/4 in 13T 8/16 DP	● ●				
	ANSI B92.1b 1 3/4 in 27T 16/32 DP	●					E2
	ANSI B92.1b 2 in 15T 8/16DP	●		○	●		E3
	ANSI B92.1b 2 1/4 in 17T 8/16 DP	● ●	●	●			E4
	DIN 5480 W50×2×24×9g	● ●					E5
	DIN 5480 W55×2×26×9g				●	●	E6

### Working port

⑩	Working port	145	175	215	280	Code
	Same-side SAE flange port A and B	●	●	●	●	1
	SAE working port A and B, on right side (45° right)	●	●			3

### Boost pump and rotary group configuration

⑪	Standard rotary group, without boost pump						K
	Charge pump displacement (cc/rev)	145	175	215	280	Code	
Standard rotary group, boost pump integrated	26		●			F7	
	32	●				FA	
	39		●			FB	
	47			●		FC	
	60				●	FD	

## Type introduction

### Through drive

		145	175	215	280	Code
	Through drive	●	●	●	●	Blank
	Without through drive					Blank
	Flange					
	SAE A J744-82-2	●	●	●	●	A1
	ANSI B92.1b 5/8 in 9T 16/32 DP					
	ANSI B92.1b 3/4 in 11T 16/32 DP	●	●			A2
	SAE B J744-101-2	●	●	●	●	B1
	ANSI B92.1b 7/8 in 13T 16/32DP					
	ANSI B92.1b 1 in 15T 16/32 DP	●	●	●	●	B3
⑫	SAE C J744-127-4			●	●	C6
	ANSI B92.1b 1 1/4 in 14T 12/24 DP					
	SAE C J744-127-2/4	●	●			CC
	ANSI B92.1b 1 1/4 in 14T 12/24 DP					
	ANSI B92.1b 1 3/4 in 13T 8/16 DP	●	●	●	●	CD
	SAE D J744-152-2/4	●	●	●	●	D1
	ANSI B92.1b 1 3/4 in 13T 8/16 DP					
	DIN 5480 N40×2×18×9g			●	●	D4
	SAE E J744-165-4	●	●	●	●	E1
	ANSI B92.1b 1 3/4 in 13T 8/16 DP					
	ANSI B92.1b 2 in 15T 8/16DP			●	●	E3

### Relief valve

		Setting range $\Delta p$	145	175	215	280	Code
⑬	Relief valve						
	Direct-acting high-pressure relief valve, fixed setting	120~470bar, without a bypass	●	●	●	●	8

### Filtration boost circuit/external boost pressure supply

		145	175	215	280	Code
	Filtration boost circuit/external boost pressure supply					
	Filtration in the boost pump suction line	●	●	●	●	S
	Filtration in the boost pump pressure line (ports with external filter circuit)	●	●	●	●	D
⑭	Filtration in the boost pump pressure line (with filter)			●		F
	Filtration in the boost pump pressure line (with filter, cold start valve, contamination indicator)			●		B

### Standard / special version

		145	175	215	280	Code
	Standard / Special version					
⑮	Standard version	●	●	●	●	Blank
	Special version					
	Cryogenic seal	○	●	○	○	W
	High-speed slewing body	○	●			S

Remark: ● = Available; ○ = On request

## Hydraulic fluid

Application instructions and requirements for hydraulic fluid selection, behavior during operation as well as disposal and environmental protection should be taken from the following data sheets before the start of project planning:

- 90220: Hydraulic fluids based on mineral oils and related hydrocarbons
- 90221: Environmentally acceptable hydraulic fluids
- 90222: Fire-resistant, water-free hydraulic fluids (HFDR/HFDU)
- 90225: Limited technical data for operation with waterfree and water-containing fire-resistant hydraulic fluids (HFDR, HFDU, HFAE, HFAS, HFB, HFC)

### Selection of hydraulic fluid

Evaluates hydraulic fluids on the basis of the Fluid Rating according to the technical data sheet 90235. Hydraulic fluids with positive evaluation in the Fluid Rating are provided in the following technical data sheet:

- 90245: Fluid Rating List for hydraulic components (pumps and motors)

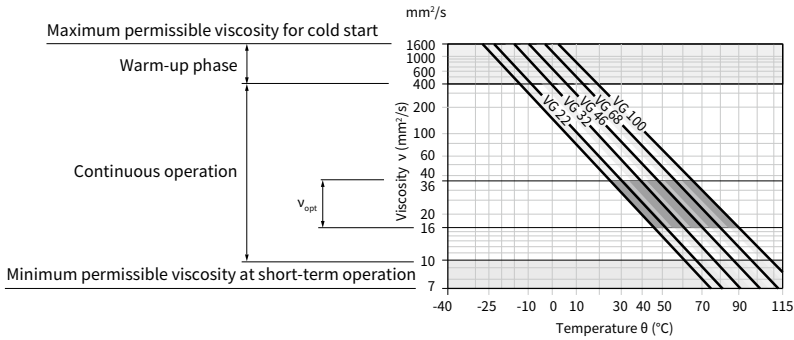
The hydraulic fluid should be selected so that the operating viscosity in the operating temperature range is within the optimum range ( $v_{opt}$ ; see selection diagram).

### •Viscosity and temperature of hydraulic fluids

	Viscosity (mm <sup>2</sup> /s)	Shaft seal	Temperature	Comment
Cold start	$v_{max} \leq 7400$ (1600)	NBR	$\theta_{St} \geq -40^{\circ}\text{C}$	$t \leq 3\text{min}$ , without load ( $p \leq 725\text{psi}(50\text{bar})$ , $n \leq 1000\text{rpm}$ Permissible temperature difference between axial piston unit and hydraulic fluid in the system maximum $45^{\circ}\text{F}$ (25 K).
		FKM	$\theta_{St} \geq -25^{\circ}\text{C}$	
Warm-up phase	$v = 7400 \cdots 1850$ (1600 $\cdots$ 400)			$t \leq 15\text{min}$ , $p \leq 0.7 \times p_{nom}$ and $n \leq 0.5 \times n_{nom}$
Continuous operation	$v = 1850 \cdots 60$ (400 $\cdots$ 10)	NBR	$\theta \leq +85^{\circ}\text{C}$	measured at port T
		FKM	$\theta \leq +110^{\circ}\text{C}$	
	$v_{opt} = 170 \cdots 82$ (36 $\cdots$ 16)			Range of optimum operating viscosity and efficiency
Short-term operation	$v_{min} = 60 \cdots 49$ (10 $\cdots$ 7)	NBR	$\theta \leq +85^{\circ}\text{C}$	$t \leq 3\text{min}$ , $p \leq 0.3 \times p_{nom}$ , measured at port T
		FKM	$\theta \leq +110^{\circ}\text{C}$	

## Hydraulic fluid

### · Selection diagram



### · Filtration of the hydraulic fluid

Finer filtration improves the cleanliness level of the hydraulic fluid, which increases the service life of the axial piston unit.

A cleanliness level of at least 20/18/15 is to be maintained according to ISO 4406.

At a hydraulic fluid viscosity of less than 10 mm<sup>2</sup>/s (e.g. due to high temperatures during short-term operation) at the drain port, a cleanliness level of at least 19/17/14 according to ISO 4406 is required.

## Shaft seal

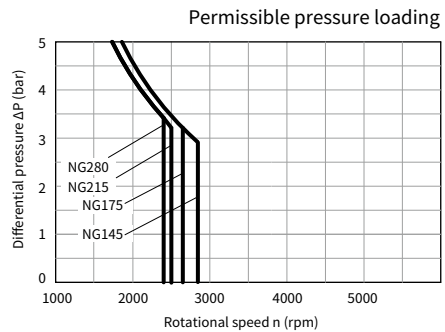
### Notice

- Working pressure range valid when using hydraulic fluids based on mineral oils. Please contact us for values for other hydraulic fluids.

- In addition to the hydraulic fluid and the temperature, the service life of the shaft seal is influenced by the rotational speed of the axial piston unit and the case pressure.

- The service life of the shaft seal decreases with increasing frequency of pressure peaks and increasing mean differential pressure.

- The case pressure must be greater than the ambient pressure.





## E - Electrical displacement control

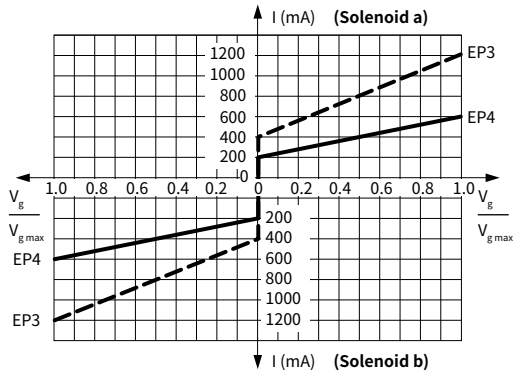
### • Electrical displacement control principle

The output flow of the pump is infinitely variable between 0 and 100%, proportional to the electrical current supplied to solenoid a or b.

The electrical energy is converted into a force acting on the control spool.

This control spool then directs control oil into and out of the stroking cylinder to adjust pump displacement as required.

A feedback lever connected to the stroking piston maintains the pump flow for any given current within the control range.



**Standard:**

Proportional solenoid without manual emergency operation.

**Supply as required:**

Proportional solenoid with manual emergency operation and spring return.

**Technical data, solenoid**

Control		EP3	EP4
Voltage		12 V (±20%)	24 V (±20%)
Control current	Start of control at $V_g=0$	400 mA	200 mA
	End of control at $V_{g,max}$	1200 mA	600 mA
Current limit		1540 mA	840 mA
Nominal resistance (at 68 °F (20°C))		5.5 Ω	21.7 Ω
Dither frequency		100Hz / 120Hz (120Hz only for the V40G175 closed pumps)	
Duty cycle		100%	
Type of protection		See connector version	

**Note:**

**The spring-return device in the control module is not a safety device**

The control module may be stuck in an uncertain position by internal impurities (hydraulic oil impurities, system component wear or sediment). As a result, the controller can no longer respond correctly to the instruction from the operator.

Check whether additional safety measures are required on your machine to move the drive actuator to a controlled safe position (emergency stop). When necessary, please ensure that these operations are implemented correctly.

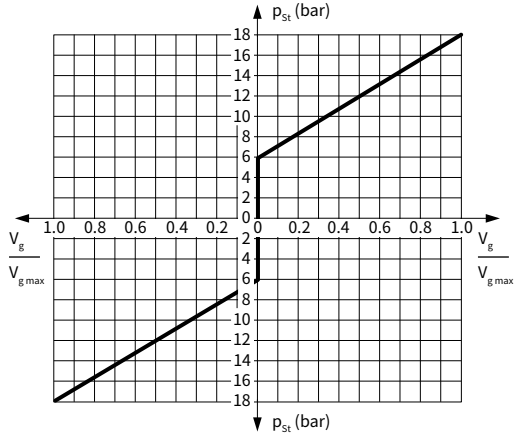
## H2 - Proportional control, hydraulic, pilot-pressure related

### · Hydraulic proportional control principle

The output flow of the pump is infinitely variable between 0 and 100%, proportional to the difference in pilot pressure applied to the two pilot pressure ports (Y1 and Y2). The pilot signal, coming from an external source, is a pressure signal. Flow is negligible, as the pilot signal acts only on the control spool of the control valve.

This control spool then directs control oil into and out of the stroking cylinder to adjust pump displacement as required.

A feedback lever connected to the stroking piston maintains the pump flow for any given pilot signal within the control range.



Displacement at  $V_g = pSt$

Displacement at  $V_g \max = pSt = 18\text{bar}$

Pilot signal  $pSt = 6$  to  $18$  bar (at port Y1, Y2)

Initial control value at  $6$  bar pressure

Control termination value when the pressure is  $18$  bar

(The maximum displacement  $V_g \max$ )

#### Note:

In the neutral position, the HD control module must be unloaded to reservoir via the external pilot control device.

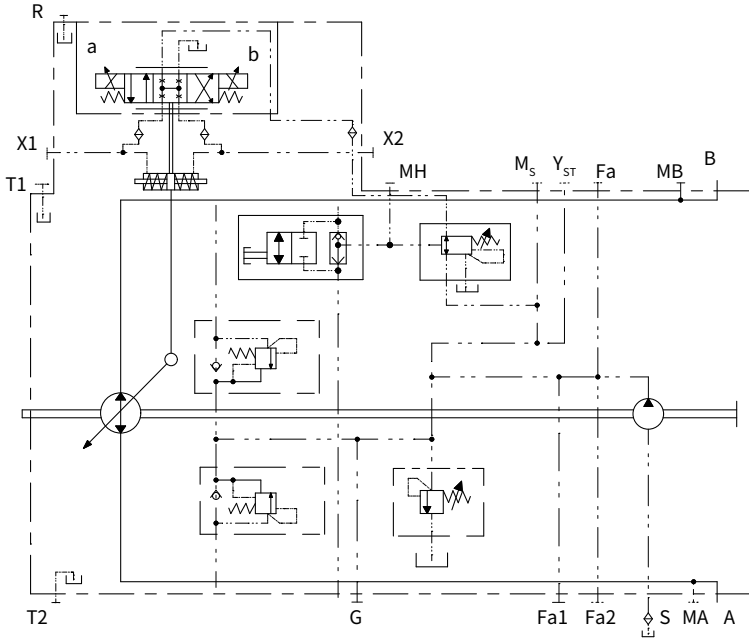
#### Note:

#### The spring-return device in the control module is not a safety device

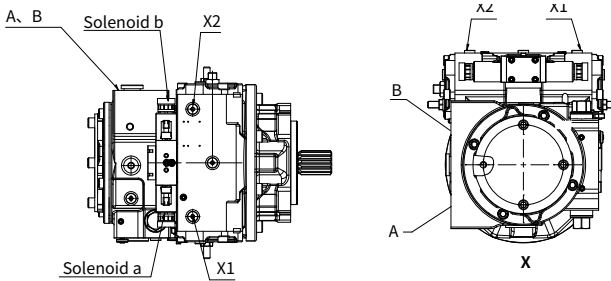
The control module may be stuck in an uncertain position by internal impurities (hydraulic oil impurities, system component wear or sediment). As a result, the controller can no longer respond correctly to the instruction from the operator.

Check whether additional safety measures are required on your machine to move the drive actuator to a controlled safe position (emergency stop). When necessary, please ensure that these operations are implemented correctly.

# V40G 145 Control principle

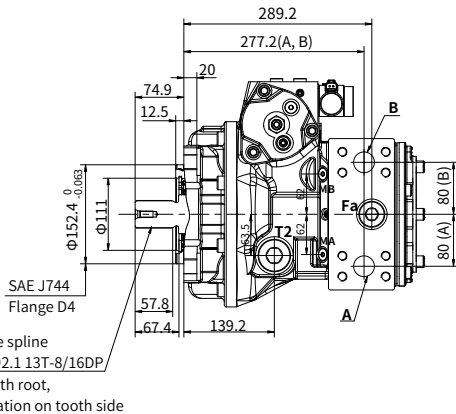
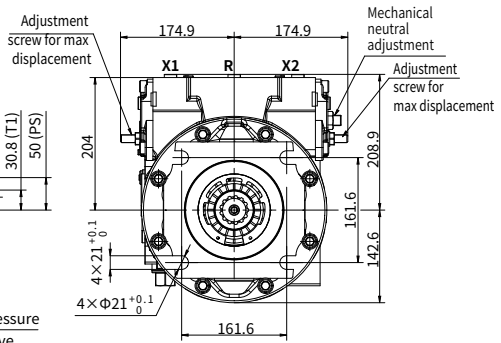
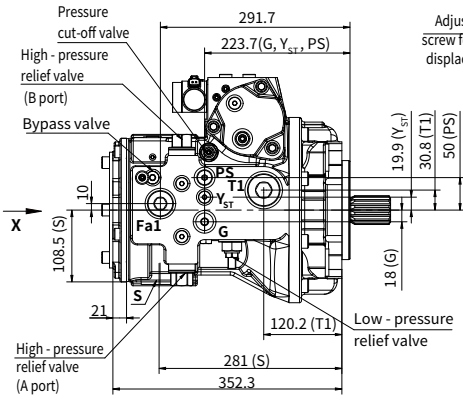
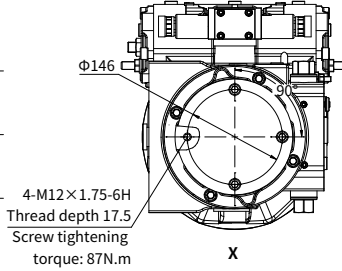
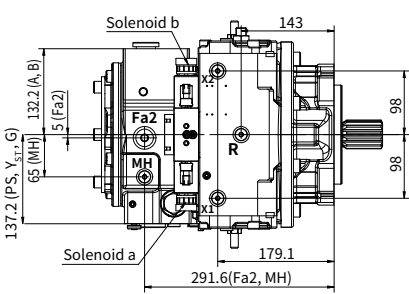


Direction of rotation	Clockwise		Counter-clockwise	
	a	b	a	b
Actuation of proportional solenoid	X1	X2	X1	X2
Control pressure	B to A	A to B	A to B	B to A
Flow direction	MA	MB	MB	MA



# Installation size

## V4G 145 Installation size



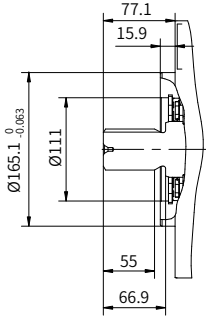
## Installation size

### •V40G 145 Port details

Port	Port Name	Standard	Oil Port Specification (thread depth)
A, B	Working port	SAE J518	1 1/4in
	Fastening thread	DIN 13	M14×2 (depth 19mm)
S	Suction port	ISO 9974-1	M48×2 (depth 24mm)
T1, T2	Drain port	ISO 9974-1	M42×2 (depth 20mm)
R	Air bleed port	ISO 9974-1	M14×1.5 (depth 14.1mm)
X1, X2	Control pressure port	ISO 9974-1	M14×1.5 (depth 20mm)
G	Boost pressure port	ISO 9974-1	M22×1.5 (depth 19mm)
P <sub>s</sub>	Pilot pressure port inlet	ISO 9974-1	M18×1.5 (depth 17mm)
Y <sub>ST</sub>	Pilot pressure port outlet	ISO 9974-1	M14×1.5 (depth 17.5mm)
MA, MB	Measuring port pressure A, B	ISO 9974-1	M14×1.5 (depth 15.5mm)
MH	Measuring port, high pressure	ISO 9974-1	M14×1.5 (depth 15mm)
Fa	Boost pressure port	ISO 9974-1	M33×2 (depth 21mm)
Fa1	Boost pressure port	ISO 9974-1	M33×2 (depth 15mm)
Fa2	Boost pressure port	ISO 9974-1	M22×1.5 (depth 18.5mm)

## Installation size

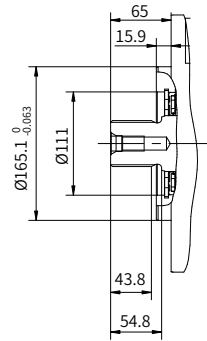
### ·V40G145 Shaft extension type



#### "E1" type spline shaft

ANSI B92.1b

1 3/4 in 13T-8/16 DP



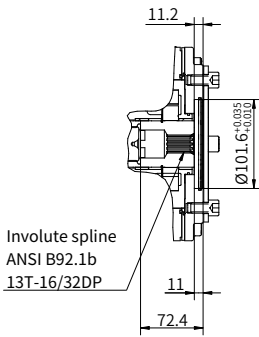
#### "E5" type spline shaft

DIN 5480

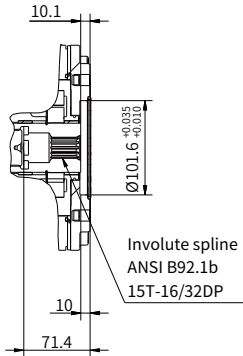
W50×2×24×9g

# Installation size

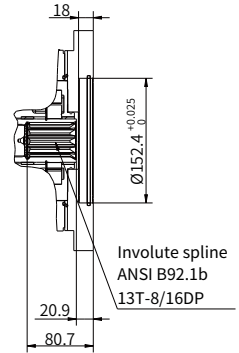
## ·V40G145 Through shaft drive



“B1” type through drive

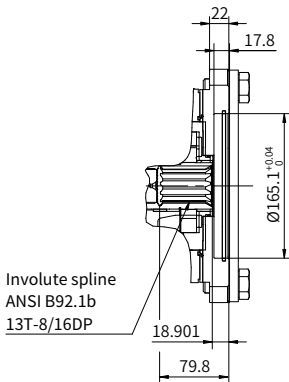


“B3” type through drive

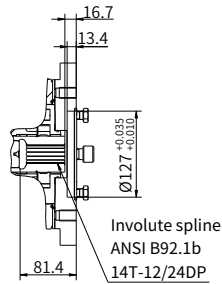


“D1” type through drive

02

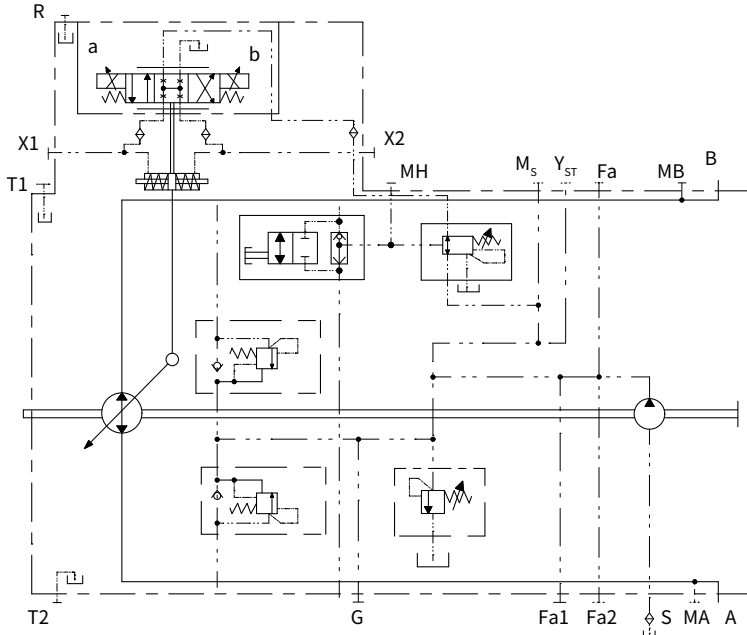


“E1” type through drive

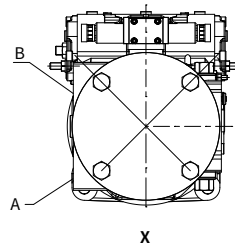
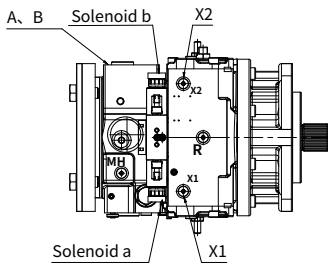


“CC” type through drive

# V40G 175 Control principle



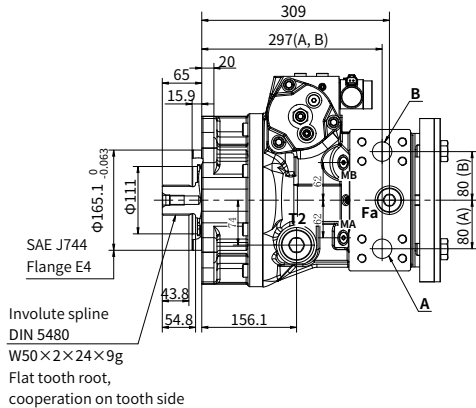
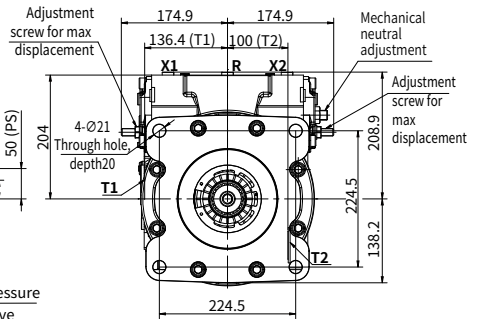
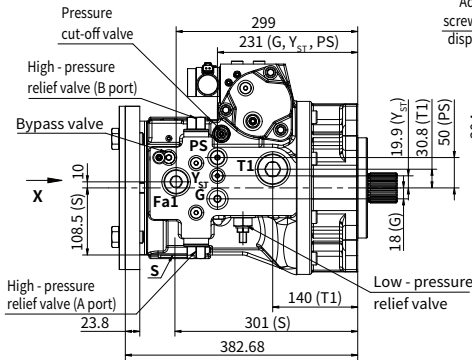
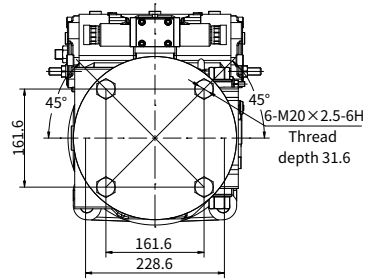
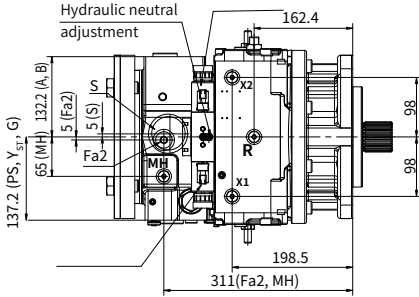
Direction of rotation	Clockwise		Counter-clockwise	
Actuation of proportional solenoid	a	b	a	b
Control pressure	X1	X2	X1	X2
Flow direction	B to A	A to B	A to B	B to A
Working pressure	MA	MB	MB	MA





# Installation size

## V40G 175 Installation size



02

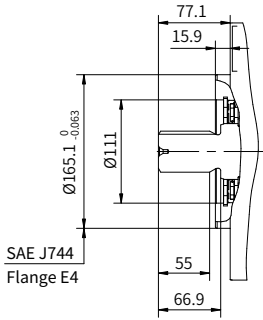
## Installation size

### ·V40G 175 Port details

Port	Port Name	Standard	Oil Port Specification (thread depth)
A, B	Working port	SAE J518	1 1/4in
	Fastening thread	DIN 13	M14×2 (depth 19mm)
S	Suction port	ISO 9974-1	M48×2 (depth 24mm)
T1, T2	Drain port	ISO 9974-1	M42×2 (depth 20mm)
R	Air bleed port	ISO 9974-1	M14×1.5 (depth 14.1mm)
X1, X2	Control pressure port	ISO 9974-1	M14×1.5 (depth 20mm)
G	Boost pressure port	ISO 9974-1	M22×1.5 (depth 19mm)
P <sub>s</sub>	Pilot pressure port inlet	ISO 9974-1	M18×1.5 (depth 17mm)
Y <sub>ST</sub>	Pilot pressure port outlet	ISO 9974-1	M14×1.5 (depth 17.5mm)
MA, MB	Measuring port pressure A, B	ISO 9974-1	M14×1.5 (depth 15.5mm)
MH	Measuring port, high pressure	ISO 9974-1	M14×1.5 (depth 15mm)
Fa	Boost pressure port	ISO 9974-1	M33×2 (depth 21mm)
Fa1	Boost pressure port	ISO 9974-1	M33×2 (depth 15mm)
Fa2	Boost pressure port	ISO 9974-1	M22×1.5 (depth 18.5mm)

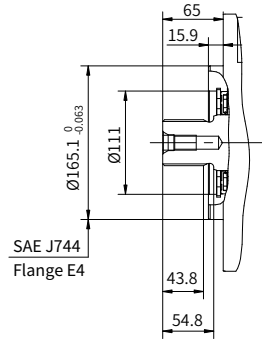
## Installation size

### ·V40G175 Shaft extension type



#### "E1" type spline shaft

ANSI B92.1b  
1 3/4 in 13T-8/16 DP

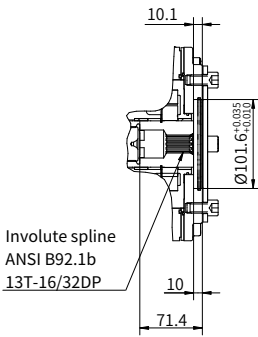


#### "E5" type spline shaft

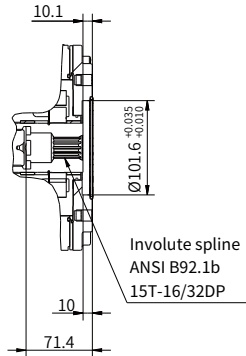
DIN 5480  
W50×2×24×9g

## Installation size

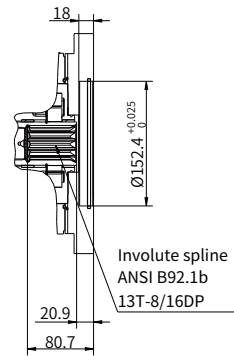
### ·V40G175 Through shaft drive



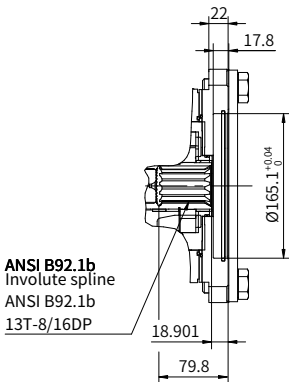
"B1" type through drive



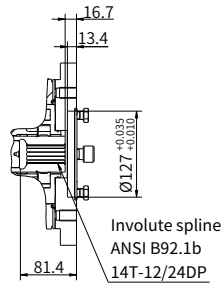
"B3" type through drive



"D1" type through drive

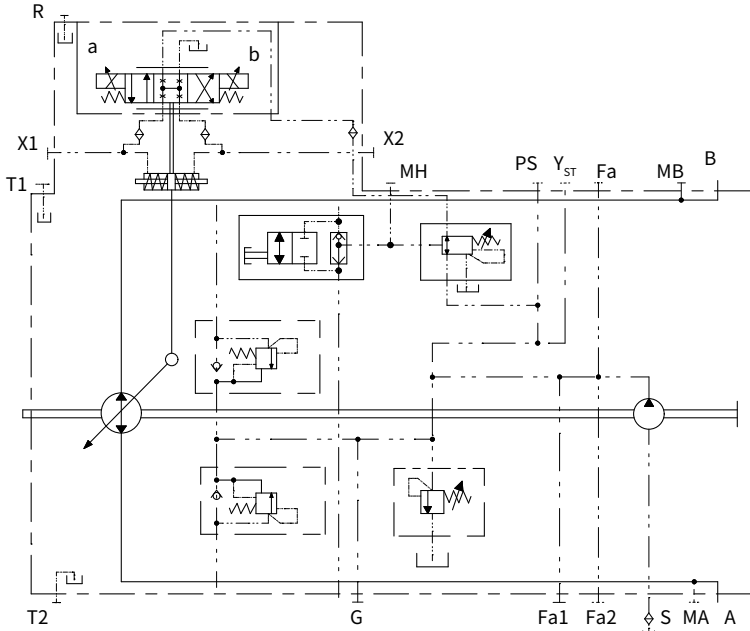


"E1" type through drive

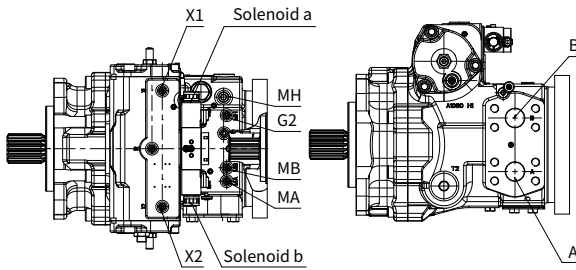


"CC" type through drive

# V40G 215 Control principle

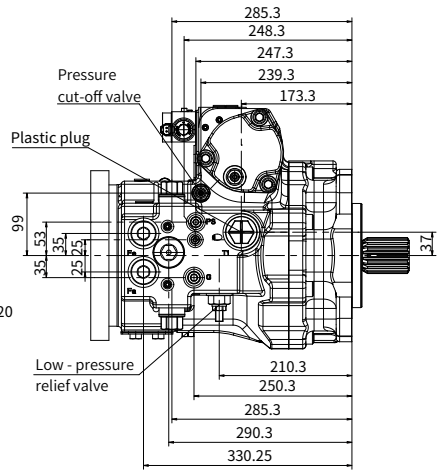
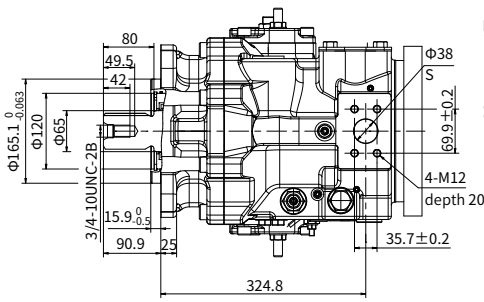
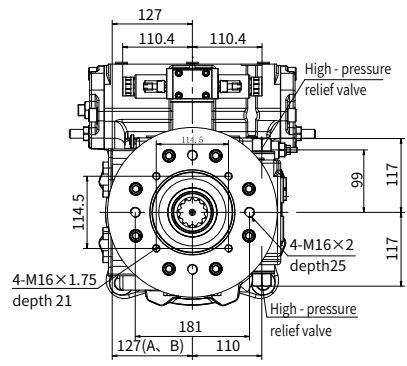
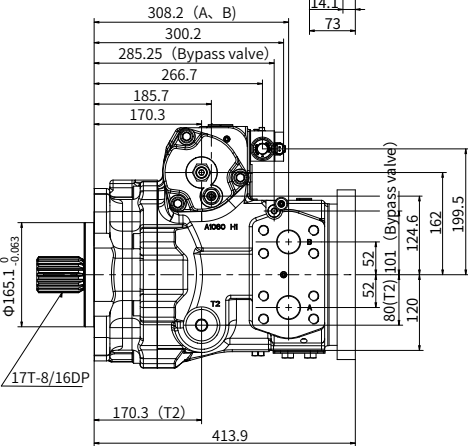
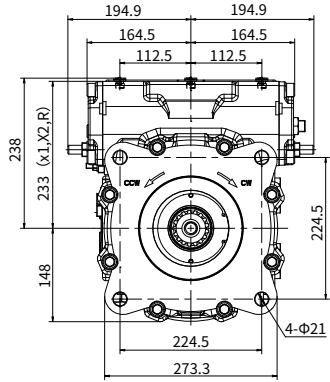
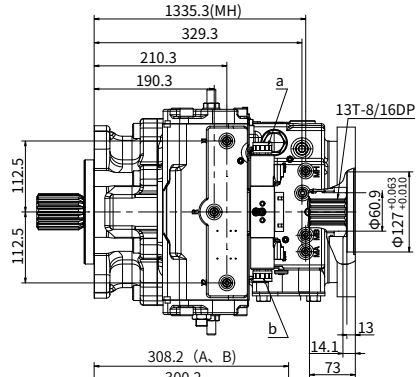


Direction of rotation	Clockwise		Counter-clockwise	
Actuation of proportional solenoid	a	b	a	b
Control pressure	X1	X2	X1	X2
Flow direction	B to A	A to B	A to B	B to A
Working pressure	MA	MB	MB	MA



# Installation size

## V40G 215 Installation size



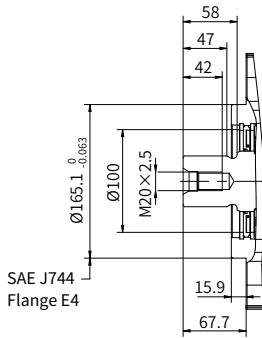
02

## •V40G 215 Port details

Port	Port Name	Standard	Oil Port Specification (thread depth)
A, B	Working port	SAE J518	1 1/2"
	Fastening thread	DIN 13	M16×2 (depth 21)
S	Suction port	SAE J518	1 1/2"
	Fastening thread	DIN 13	M12×1.75 (depth 20)
T1, T2	Drain port	ISO 6149	M42×2 (depth 19.5)
R	Air bleed port	ISO 6149	M14×1.5 (depth 11.5)
X1, X2	Control pressure port	ISO 6149	M14×1.5 (depth 11.5)
G	Boost pressure port	ISO 6149	M22×1.5 (depth 15.5)
P <sub>s</sub>	Pilot pressure port inlet	ISO 6149	M18×1.5 (depth 14.5)
Y <sub>ST</sub>	Pilot pressure port outlet	ISO 6149	M14×1.5 (depth 11.5)
MA, MB	Measuring port pressure A, B	ISO 6149	M14×1.5 (depth 11.5)
MH	Measuring port, high pressure	ISO 6149	M14×1.5 (depth 11.5)
Fa	Boost pressure port	ISO 6149	M33×2 (depth 20)
Fa1	Boost pressure port	ISO 6149	M33×2 (depth 20)
Fa2	Boost pressure port	ISO 6149	M22×1.5 (depth 16.5)

## Installation size

### ·V40G215 Shaft extension type



#### “E5” type spline shaft

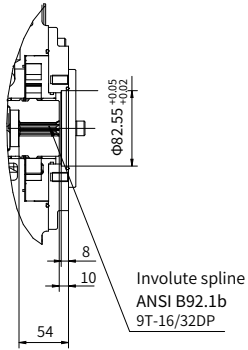
DIN 5480

W55×2×26×9g



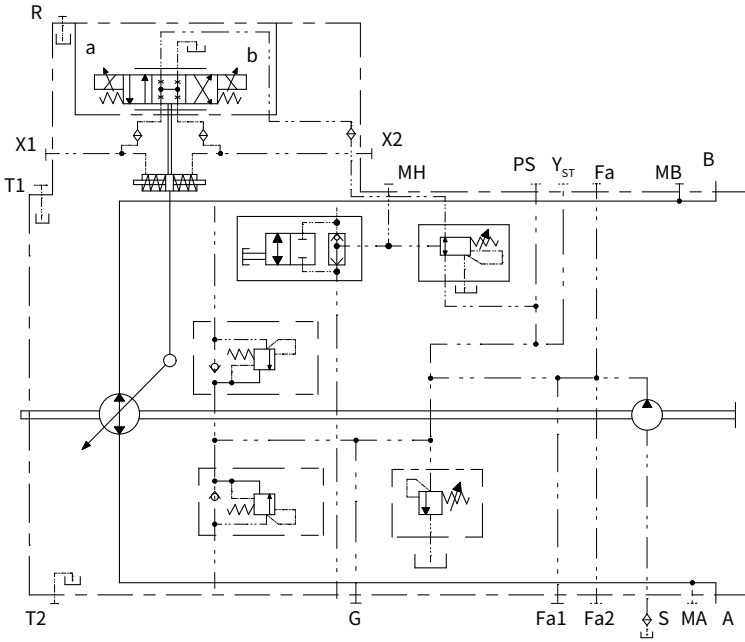
## Installation size

### ·V40G215 Through shaft drive

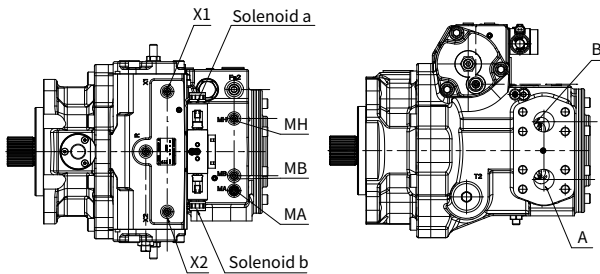


"A1" type  
through drive

# V40G 280 Control principle

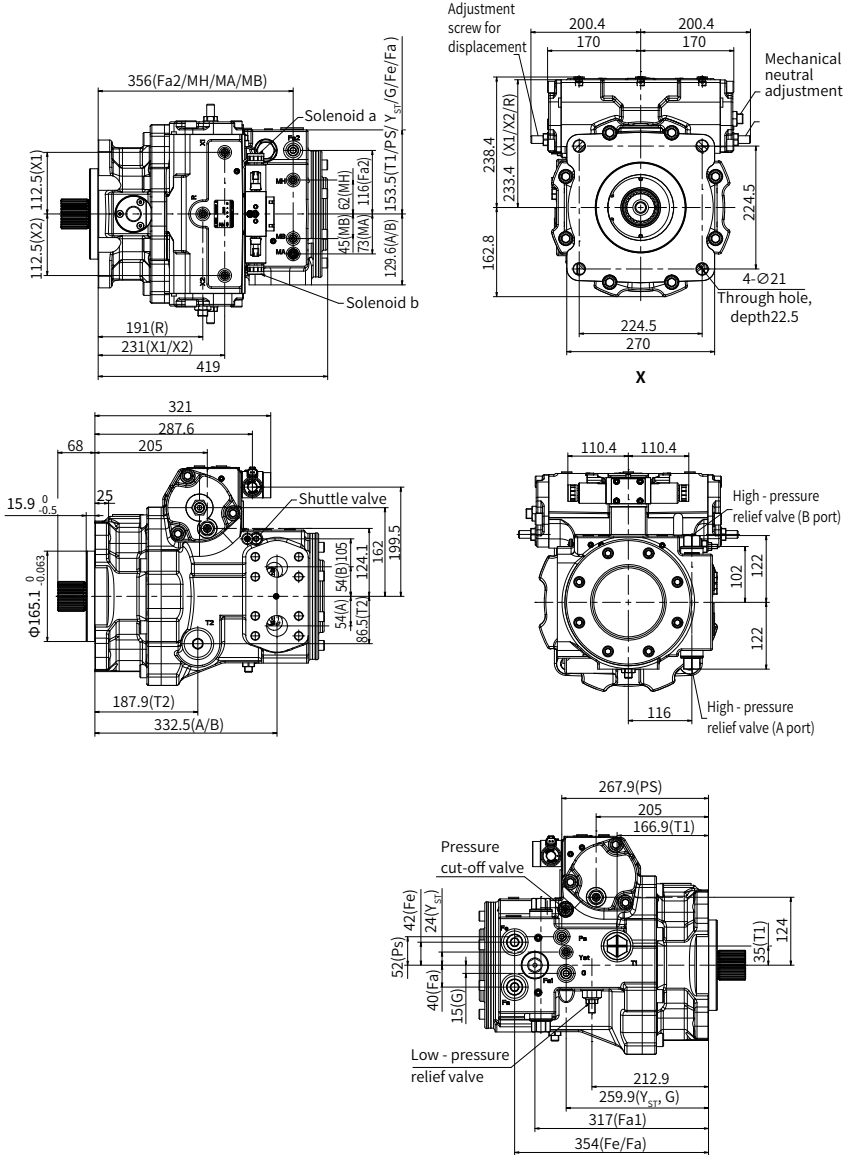


Direction of rotation	Clockwise		Counter-clockwise	
Actuation of proportional solenoid	a	b	a	b
Control pressure	X1	X2	X1	X2
Flow direction	B to A	A to B	A to B	B to A
Working pressure	MA	MB	MB	MA



# Installation size

## V40G 280 Installation size



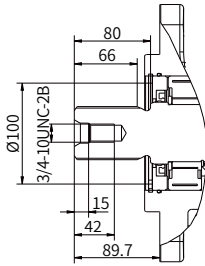
02

## ·V40G 280 Port details

Port	Port Name	Standard	Oil Port Specification (thread depth)
A, B	Working port	SAE J518	1 1/2"
	Fastening thread	DIN 13	M16×2 (depth 21)
S	Suction port	SAE J518	1 1/2"
	Fastening thread	DIN 13	M12×1.75 (depth 20)
T1, T2	Drain port	ISO 6149	M42×2 (depth 19.5)
R	Air bleed port	ISO 6149	M14×1.5 (depth 11.5)
X1, X2	Control pressure port	ISO 6149	M14×1.5 (depth 11.5)
G	Boost pressure port	ISO 6149	M22×1.5 (depth 15.5)
P <sub>s</sub>	Pilot pressure port inlet	ISO 6149	M18×1.5 (depth 14.5)
Y <sub>ST</sub>	Pilot pressure port outlet	ISO 6149	M14×1.5 (depth 11.5)
MA, MB	Measuring port pressure A, B	ISO 6149	M14×1.5 (depth 11.5)
MH	Measuring port, high pressure	ISO 6149	M14×1.5 (depth 11.5)
Fa	Boost pressure port	ISO 6149	M33×2 (depth 20)
Fa1	Boost pressure port	ISO 6149	M33×2 (depth 20)
Fa2	Boost pressure port	ISO 6149	M22×1.5 (depth 16.5)

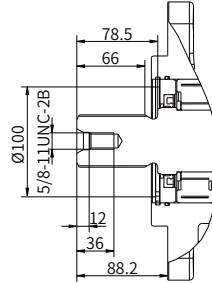
## Installation size

### ·V40G280 Shaft extension type



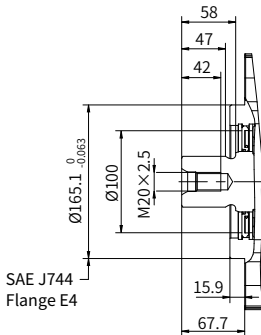
#### “E4” type spline shaft

ANSI B92.1b  
2 1/4 in 17T-8/16DP



#### “E3” type spline shaft

ANSI B92.1b  
2 in 15T-8/16DP

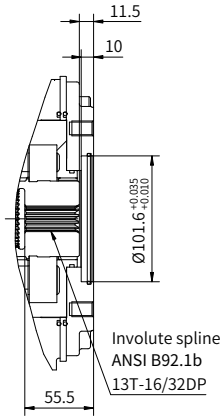


#### “E6” type spline shaft

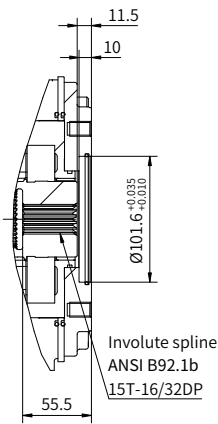
DIN 5480  
W55×2×26×9g

# Installation size

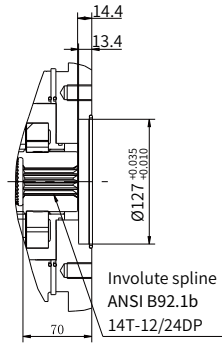
## ·V40G280 Through shaft drive



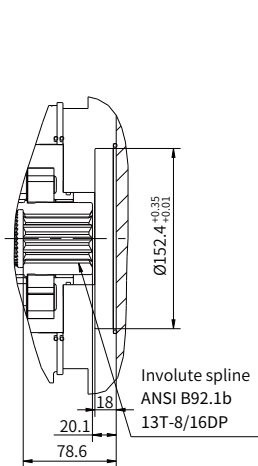
**"B1" type**  
through drive



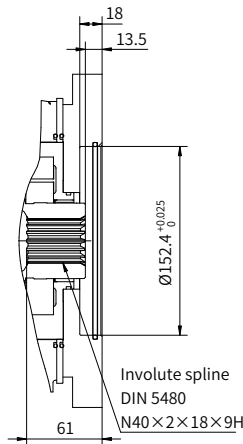
**"B2" type**  
through drive



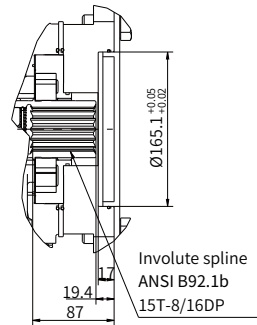
**"C2" type**  
through drive



**"D1" type**  
through drive



**"D2" type**  
through drive



**"E3" type**  
through drive



**China**

+86 400 101 8889

**America**

+01 630 995 3674

**Germany**

+49 (30) 72088-0

**Japan**

+81 03 6809 1696



© This brochure can be reproduced, edited, reproduced or transmitted electronically without the authorization of Hengli Hydraulic Company. Due to the continuous development of the product, the information in this brochure is not specific to the specific conditions or applicability of the industry, thus, Hengli does not take any responsibility for any incomplete or inaccurate description.