



HIDRÁULICA
ROGIMAR

TYPE CODE FOR STANDARD PROGRAM

1	A10V	O	45	DFLR	/	31	R	-	V	P	A	12	N00	24DC(HO)
1	2	3	4	5		6	7		8	9	10	11	12	13

Version

		18	28	45	71	100	140
1	Standard version (without symbol)	■	■	■	■	■	■

Axial piston unit

2	Swashplate design, variable, nominal pressure 4000 psi (280 bar), maximum pressure 5100 psi (350 bar)	HSP-10V
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Operation mode

3	Pump, open circuit	O
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Size (NG)

4	Geometric displacement, see table of values on pages 6 and 7	18	28	45	71	100	140
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Control type

5	Pressure control	■	■	■	■	■	■	DR	※
	Pressure remote control	■	■	■	■	■	■	DRG	
	with flow control, hydraulic								
	X-T open	■	■	■	■	■	■	DFR	※
	X-T closed	■	■	■	■	■	■	DFR1	※
	with pressure electrical on-off								
	N.O	■	■	■	■	■	■	HO	
	N.C	■	■	■	■	■	■	HC	
	with proportional pressure control	■	■	■	■	■	■	ERHZ ¹⁾²⁾	
		■	■	■	■	■	■	ERHZ ¹⁾²⁾	
	Pressure, flow and power control	-	■	■	■	■	■	DFLR	※
	Proportional flow control	-	■	■	■	■	-	EQZ ²⁾	

Direction of rotation

7	Viewed on drive shaft	clockwise		R
		counter clockwise L		L

Seals

8	FKM (VITON)	V
	NBR	P

1) The following must be taken into account during project planning:

Excessive current levels (I > 1200 mA with 12 V or I > 600 mA with 24 V) to the ERHZ solenoid can result in undesired decrease of pressure which can lead to pump or system damage:

- Use max current limiter solenoids.

- A sandwich plate pressure reducing valve can be used to protect the pump in the event of overflow.

An accessory kit with pressure reducing sandwich plate can be ordered

2) Electronic driver not included

■ = available - = on request ※ = standard type

To complete with mechanical compensator code (es. DFRHO, DFR1HO, DRGHO, DFLRHO)



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	A10V	O	45	DFLR	/	31	R	-	V	P	A	12	N00	24DC(HO)
1	2	3	4	5		6	7		8	9	10	11	12	13

Version

			18	28	45	71	100	140	
9	Splined shaft ANSI B92.1a	standard shaft	■	■	■	■	■	■	S
		similar to shaft "S" however for higher input torque	■	■	■	■	-	-	R
		reduced diameter, not for through drive	■	-	-	-	■	-	U
	Parallel keyed shaft Not for through drive	Metric DIN 6885	■	■	■	■	■	■	P
		SAE ISO 3019-1	■	■	■	■	■	■	K
			-	-	-	-	-	-	W

Note: Same splined shaft for SAE/Metric

			18	28	45	71	100	140	
10	ISO 3019-2 (Metric)	2-hole	■	■	■	■	■	-	A
		4-hole	-	-	-	-	-	■	B
	ISO 3019-1 (SAE)	2-hole	■	■	■	■	■	-	C ³⁾
		4-hole	-	-	-	-	-	■	D ³⁾

Service line port

			18	28	45	71	100	140	
11	SAE flange ports on opposite side, metric fastening thread		■	■	■	■	■	■	12/(42)
	SAE flange ports on opposite side, UNC fastening thread		■	■	■	■	■	■	62/(92)

Through drive

			18	28	45	71	100	140	
12	without through drive		■	■	■	■	■	■	N00
	Flange ISO 3019-1 Diameter	coupling for splined shaft diameter							
		82-2 (A)	5/8 in	9T 16/32DP	■	■	■	■	K01
	101-2 (B)	3/4 in	11T 16/32DP	■	■	■	■	■	K52
		7/8 in	13T 16/32DP	-	■	■	■	■	K68/K02
		1 in	15T 16/32DP	-	-	■	■	■	K04
	127-2 (C)	1 1/4 in	14T 12/24DP	-	-	-	■	■	K07
		1 1/2 in	17T 12/24DP	-	-	-	-	■	K24
	152-4 (D)	1 3/4 in	13T 8/16DP	-	-	-	-	■	K17
	Ø 63, Metric 4 hole	key shaft Ø 25	-	■	■	■	■	■	K57
	Flange ISO 3019-2 Diameter								
	80, 2-hole	3/4 in	11T 16/32DP	■	■	■	■	■	KB2
	100, 2-hole	7/8 in	13T 16/32DP	-	■	■	■	■	KB3
		1 in	15T 16/32DP	-	-	■	■	■	KB4
	125, 2-hole	1 1/4 in	14T 12/24DP	-	-	-	■	■	KB5
		1 1/2 in	17T 12/24DP	-	-	-	-	■	KB6
	180, 4-hole	1 3/4 in	13T 8/16DP	-	-	-	-	■	KB7

Connectors

13	Voltage	■	■	■	■	■	■	24DC ³⁾
		■	■	■	■	■	■	12DC ³⁾
		■	■	■	■	■	■	110AC ³⁾
		■	■	■	■	■	■	230AC ³⁾
		■	■	■	■	■	■	00 (without EV)

³⁾ Suitable for HC/HO control

⁴⁾ Suitable for HC/HO/ERHZ/EQZ control

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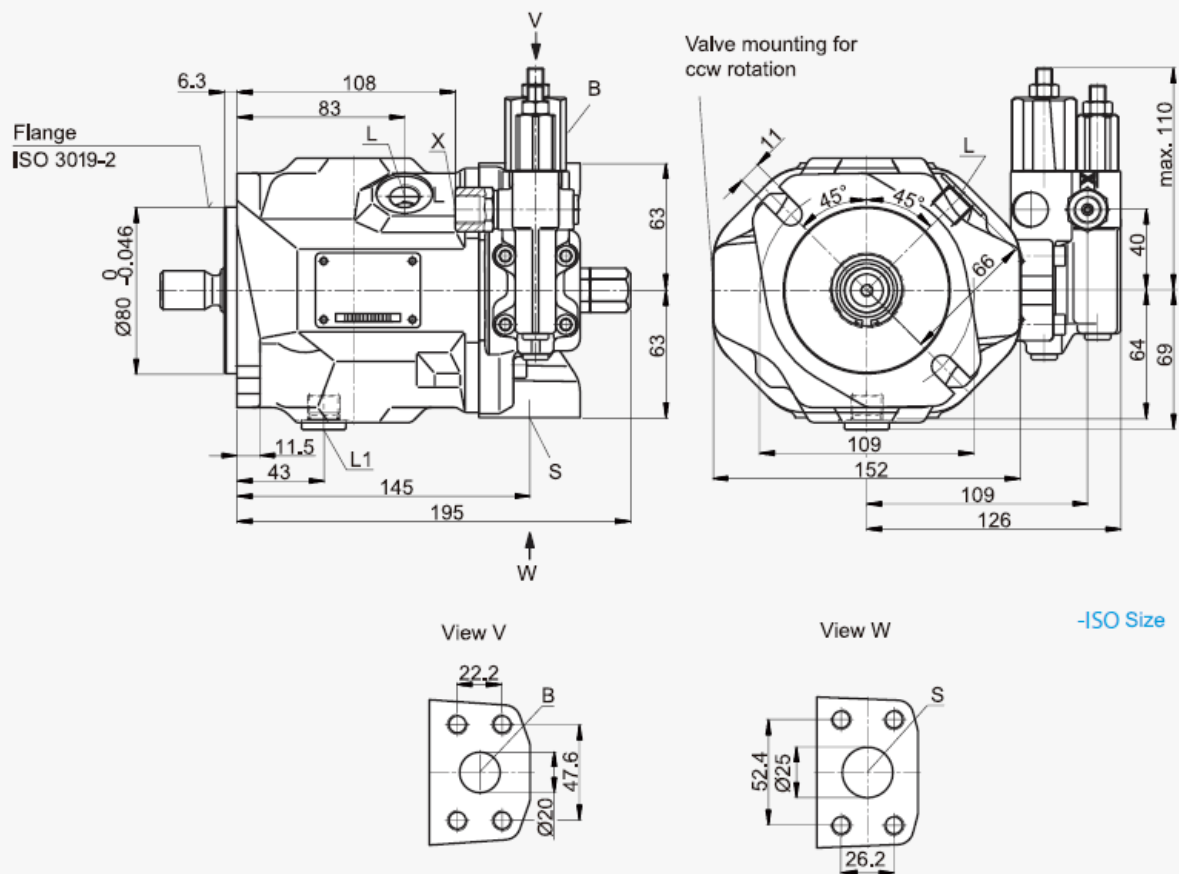


HIDRÁULICA
ROGIMAR

ISO SIZE | DIMENSIONS: SIZE 18

DFR, DFR1 – Pressure and flow control, hydraulic

Clockwise rotation



PORTS

Before finalizing your design request a certified installation drawing.
Dimensions in (mm).

Designation	Port for	Standard	Size ¹⁾	Maximum pressure[psi(bar)] ²⁾	State
B	Service line, fastening thread	SAE J518 ³⁾ DIN 13	3/4 in M10 x 1.5 : 17 (deep)	5100(350)	O
S	Suction line, fastening thread	SAE J518 ³⁾ DIN 13	1 in M10 x 1.5 : 17 (deep)	145(10)	O
L	Case drain fluid	DIN 3852 ⁴⁾	M16 x 1.5 : 12 (deep)	30(2)	O ⁵⁾
L ₁	Case drain fluid	DIN 3852 ⁴⁾	M16 x 1.5 : 12 (deep)	30(2)	X ⁵⁾
X	Pilot pressure	DIN 3852 ⁴⁾	M14 x 1.5 : 12 (deep)	5100(350)	O
X	Pilot press. with DG-control	DIN ISO 228 ⁴⁾	G 1/4 in	5100(350)	O

¹⁾ For the maximum tightening torques the general instructions on page 53 must be observed.

²⁾ Depending on the application, short-term pressure spikes can occur. Keep this in mind when selecting measuring equipment and fittings. Pressure values in bar absolute.

³⁾ The dimension follow SAE J518, Metric fastening thread and standard thread are different.

⁴⁾ The spot face can be deeper than as specified in the standard.

⁵⁾ Depending on the installation position, L or L₁ must be connected (please check assembling instruction on page 51).

O = Must be connected (plugged on delivery)

X = Plugged (in normal operation)

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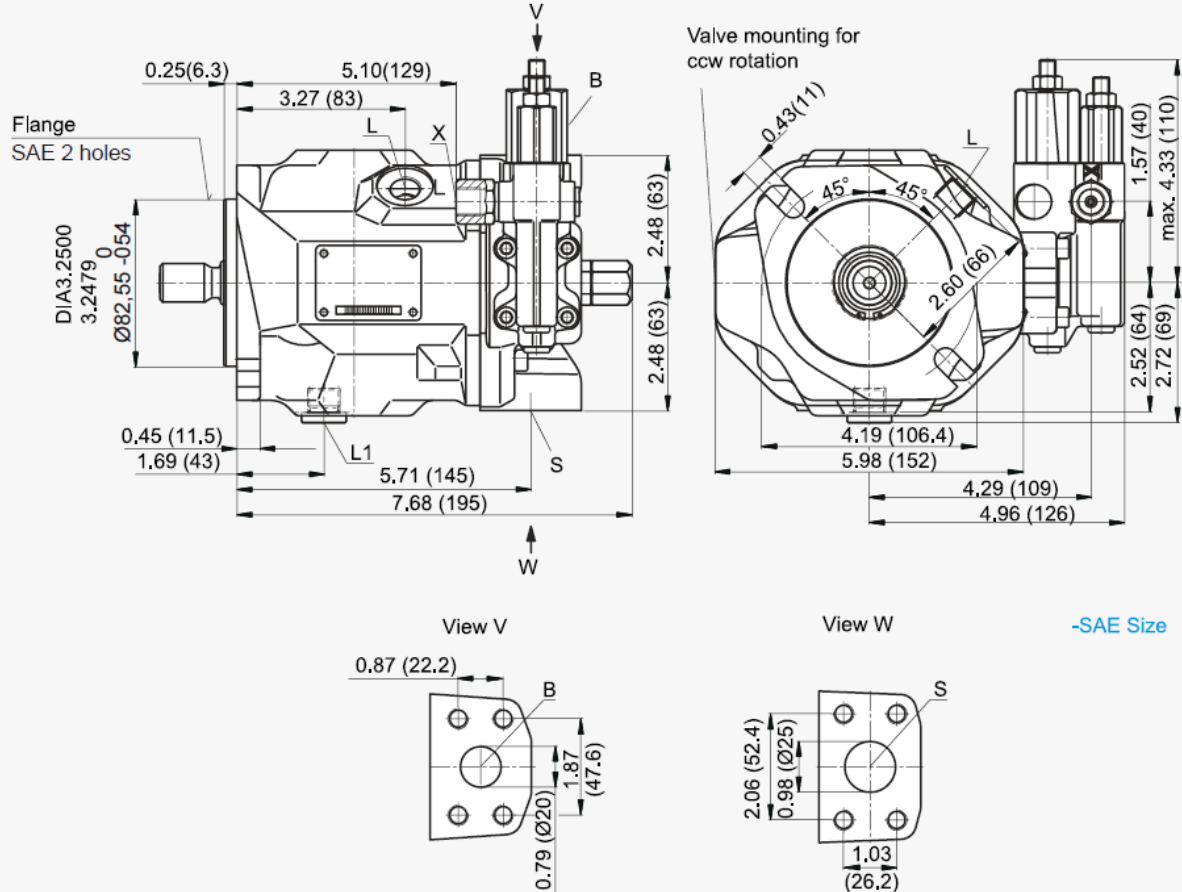


HIDRÁULICA
ROGIMAR

SAE SIZE | DIMENSIONS: SIZE 18

DFR, DFR1 – Pressure and flow control, hydraulic

Clockwise rotation



PORTS

Before finalizing your design request a certified installation drawing.
Dimensions in inches and (mm).

Designation	Port for	Standard	Size ¹⁾	Maximum pressure[psi(bar)] ²⁾	State
B	Service line, fastening thread	SAE J518 ASME B1.1	3/4 in 3/8-16 UNC-2B; 0.79 (20) deep	5100(350)	O
S	Suction line, fastening thread	SAE J518 ASME B1.1	1 in 3/8-16 UNC-2B; 0.79 (20) deep	145(10)	O
L	Case drain fluid	ISO 11926 ³⁾	9/16-18 UNF-2B; 0.47 (12) deep	30(2)	O ⁴⁾
L1	Case drain fluid	ISO 11926 ³⁾	9/16-18 UNF-2B; 0.47 (12) deep	30(2)	X ⁴⁾
X	Pilot pressure	ISO 11926 ³⁾	7/16-20 UNF-2B; 0.45 (12) deep	5100(350)	O
X	Pilot press. with DG-control	DIN ISO 228 ³⁾	G 1/4 in; 0.47 (12) deep	5100(350)	O

¹⁾ For the maximum tightening torques the general instructions on page 53 must be observed.

²⁾ Depending on the application, short-term pressure spikes can occur. Keep this in mind when selecting measuring equipment and fittings. Pressure values in bar absolute.

³⁾ The spot face can be deeper than as specified in the standard.

⁴⁾ Depending on the installation position, L or L1 must be connected (please check assembling instruction on page 51).

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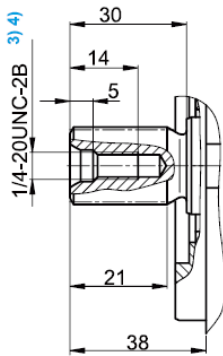


HIDRÁULICA
ROGIMAR

ISO - SAE SIZE | DIMENSIONS: SIZE 18

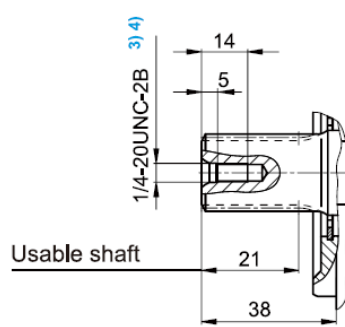
DRIVE SHAFT

S Splined shaft 3/4 in
11T 16/32DP¹⁾ (SAE J744)



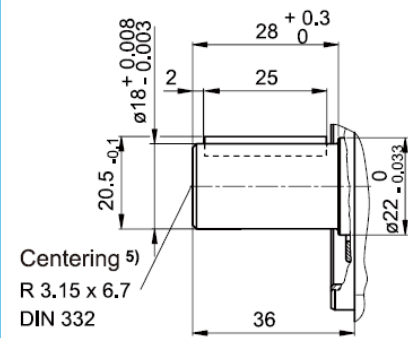
-ISO Size

R Splined shaft 3/4 in
11T 16/32DP¹⁾²⁾ (SAE J744)



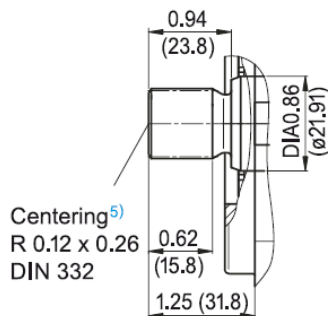
-ISO Size

P Parallel shaft key
DIN 6885, A6x6x25



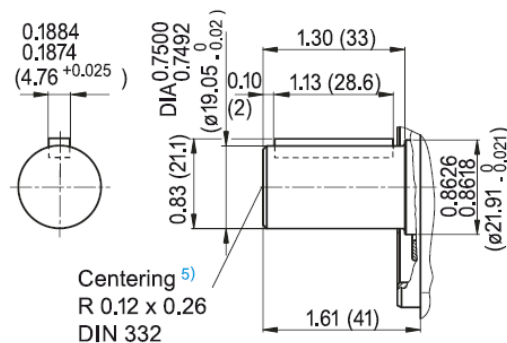
-ISO Size

U Splined shaft 5/8 in
9T 16/32DP¹⁾ (SAE J744)



-SAE Size

K Parallel shaft key
ISO 3019-1, 19-1



-SAE Size

Before finalizing your design request a certified installation drawing. Dimensions in (mm).

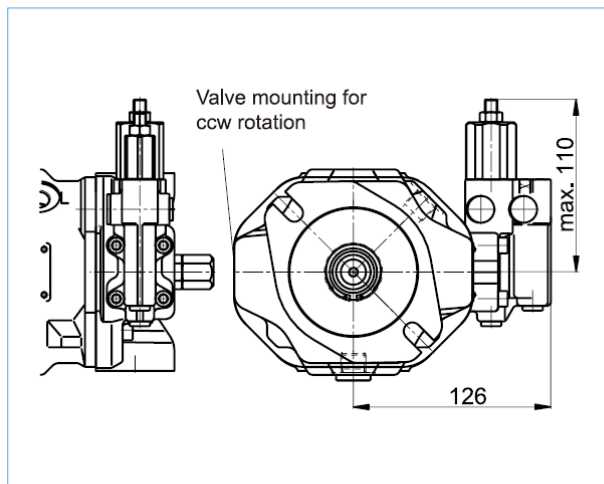
- 1) ANSI B92.1a, 30° pressure angle, flat root, side fit, tolerance class 5.
- 2) Splines according to ANSI B92.1a, run out of spline is a deviation from standard.
- 3) Thread according to ASME B1.1.
- 4) For the maximum tightening torques the general instructions on page 53 must be observed.
- 5) Coupling axially secured, e.g. with a clamp coupling or radially mounted clamping screw.



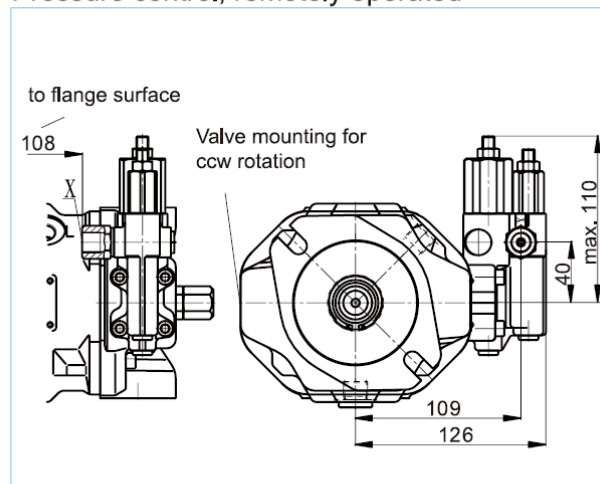
HIDRÁULICA
ROGIMAR

SAE SIZE | DIMENSIONS: SIZE 18

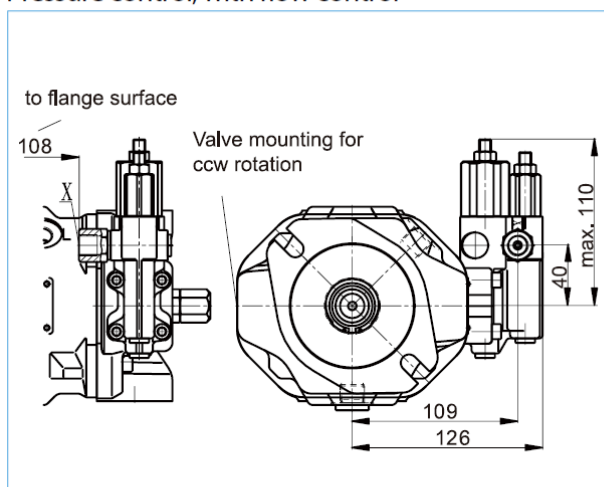
DR
Pressure control



DRG
Pressure control, remotely operated



DFR/DFR1
Pressure control, with flow control



Before finalizing your design request a certified
installation drawing.
Dimensions in inches and (mm).

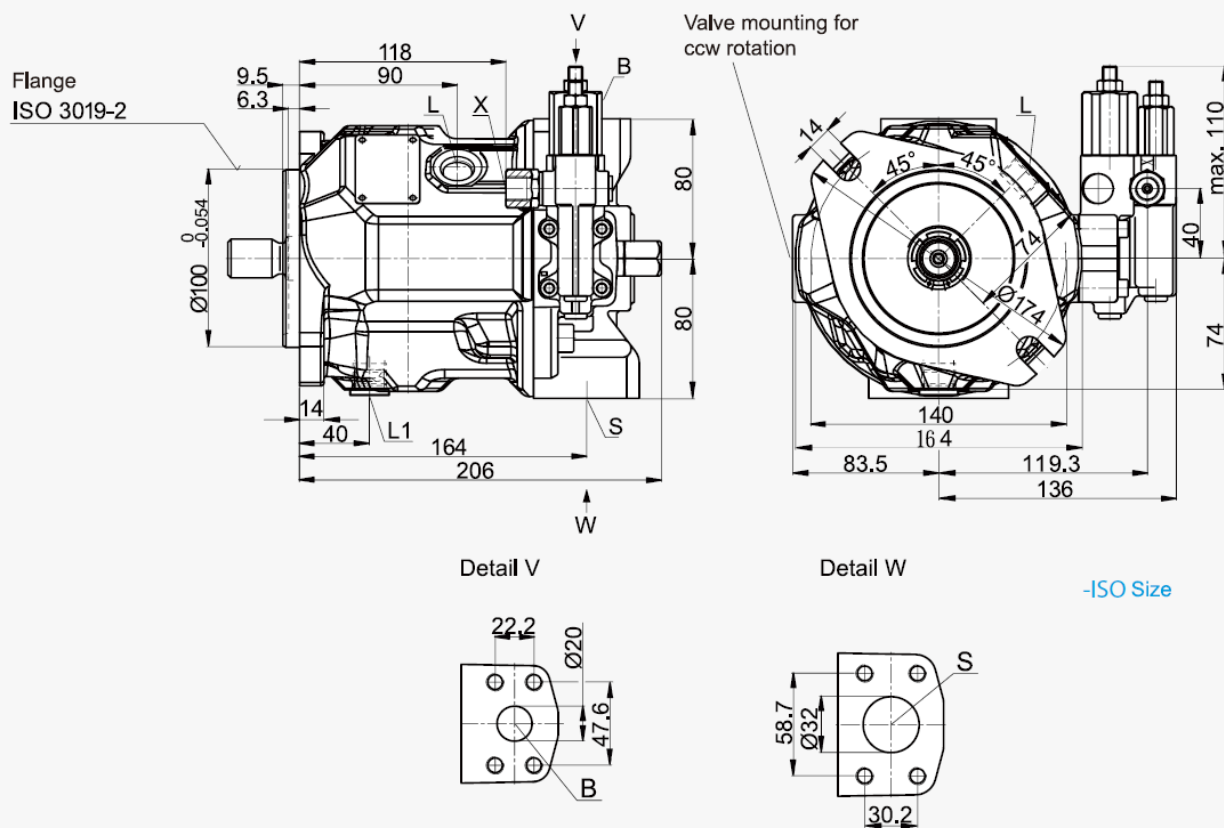


HIDRÁULICA
ROGIMAR

ISO SIZE | DIMENSIONS: SIZE 28

DFR/DFR1 – Pressure and flow control, hydraulic

Clockwise rotation



PORTS

Before finalizing your design request a certified installation drawing.
Dimensions in (mm).

Designation	Port for	Standard	Size ¹⁾	Maximum pressure[psi(bar)] ²⁾	State
B	Service line, fastening thread	SAE J518 ³⁾ DIN 13	3/4 in M10 x 1.5 : 17 (deep)	5100(350)	O
S	Suction line, fastening thread	SAE J518 ³⁾ DIN 13	1 1/4in M10 x 1.5 : 17 (deep)	145(10)	O
L	Case drain fluid	DIN 3852 ⁴⁾	M18 x 1.5 : 12 (deep)	30(2)	O ⁵⁾
L ₁	Case drain fluid	DIN 3852 ⁴⁾	M18 x 1.5 : 12 (deep)	30(2)	X ⁵⁾
X	Pilot pressure	DIN 3852 ⁴⁾	M14 x 1.5 : 12 (deep)	5100(350)	O
X	Pilot press. with DG-control	DIN ISO 228 ⁴⁾	G 1/4 in : 12 (deep)	5100(350)	O

- ¹⁾ For the maximum tightening torques the general instructions on page 53 must be observed.
- ²⁾ Depending on the application, short-term pressure spikes can occur. Keep this in mind when selecting measuring equipment and fittings. Pressure values in bar absolute.
- ³⁾ The dimension follow SAE J518, Metric fastening thread and standard thread are different.
- ⁴⁾ The spot face can be deeper than as specified in the standard.
- ⁵⁾ Depending on the installation position, L or L₁ must be connected (please check assembling instruction on page 51).
- O = Must be connected (plugged on delivery)
- X = Plugged (in normal operation)

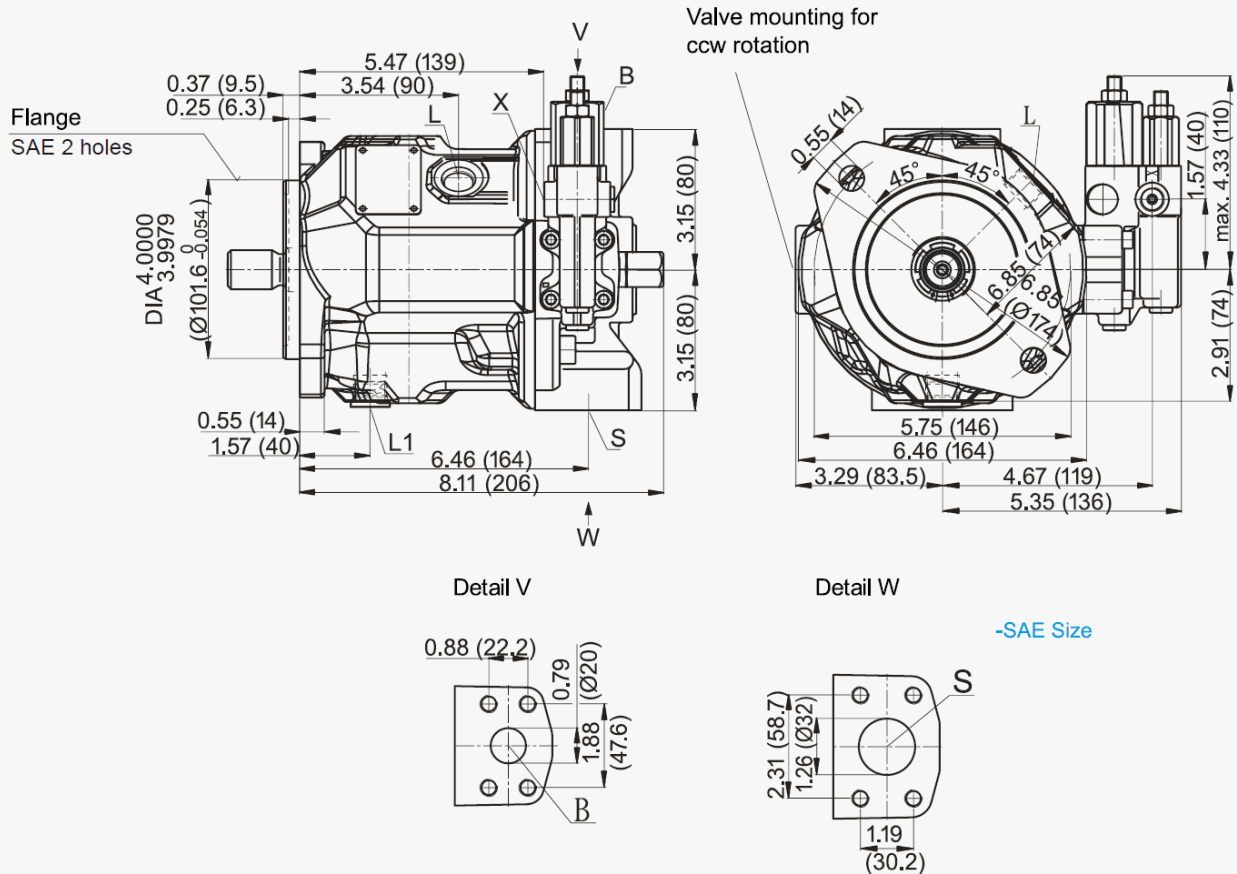
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HIDRÁULICA
ROGIMAR

SAE SIZE | DIMENSIONS: SIZE 28

DFR/DFR1 – Pressure and flow control, hydraulic
Clockwise rotation



PORTS

Before finalizing your design request a certified installation drawing.
Dimensions in inches and (mm).

Designation	Port for	Standard	Size ¹⁾	Maximum pressure[psi(bar)] ²⁾	State
B	Service line, fastening thread	SAE J518 ASME B1.1	3/4 in 3/8-16 UNC-2B; 0.79 (20) deep	5100(350)	O
S	Suction line, fastening thread	SAE J518 ASME B1.1	1 1/4 in 7/16-14 UNC-2B; 0.94 (24) deep	145(10)	O
L	Case drain fluid	ISO 11926 ³⁾	3/4-16 UNF-2B; 0.47 (12) deep	30(2)	O ⁴⁾
L1	Case drain fluid	ISO 11926 ³⁾	3/4-16 UNF-2B; 0.47 (12) deep	30(2)	X ⁴⁾
X	Pilot pressure	ISO 11926 ³⁾	7/16-14 UNC-12B; 0.47 (12) deep	5100(350)	O
X	Pilot press. with DG-control	DIN ISO 228 ³⁾	G 1/4in; 0.47 (12) deep	5100(350)	O

1) For the maximum tightening torques the general instructions on page 53 must be observed.

2) Depending on the application, short-term pressure spikes can occur. Keep this in mind when selecting measuring equipment and fittings. Pressure values in bar absolute.

3) The spot face can be deeper than as specified in the standard.

4) Depending on the installation position, L or L1 must be connected (please check assembling instruction on page 51).

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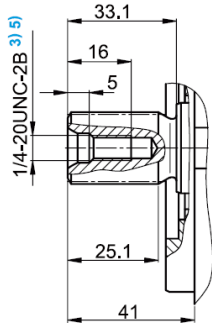


HIDRÁULICA
ROGIMAR

ISO - SAE SIZE | DIMENSIONS: SIZE 28

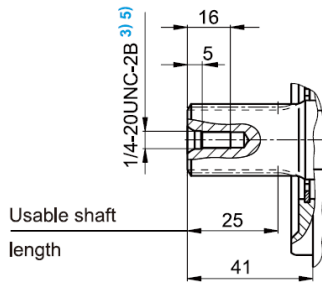
DRIVE SHAFT

S Splined shaft 7/8 in
13T 16/32DP ¹⁾ (SAE J744)



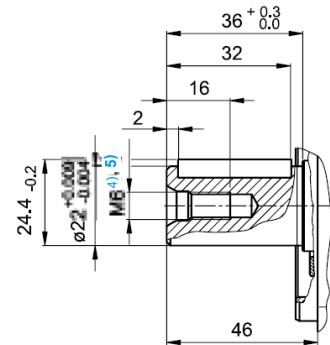
-ISO Size

R Splined shaft 7/8 in
13T 16/32DP ¹⁾²⁾ (SAE J744)



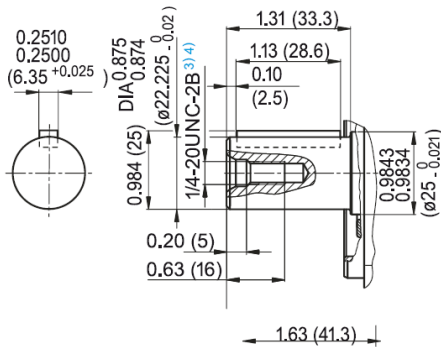
-ISO Size

P Parallel shaft key
DIN 6885 • A6x6x32



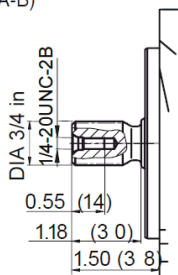
-ISO Size

K Parallel shaft key
ISO 3019-1, 22-1



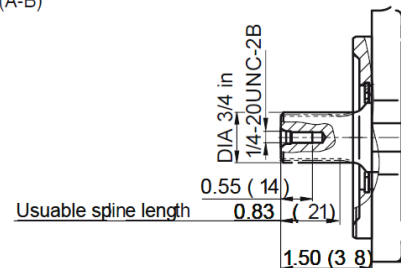
-SAE Size

U Splined Shaft 3/4 in 11T 16/32 DP ⁶⁾
SAE J744- 19-4 (A-B)



-SAE Size

W Splined Shaft 3/4 in 11T 16/32 DP ⁶⁾
SAE J744 - 19-4 (A-B)



-SAE Size

Before finalizing your design request a certified installation drawing. Dimensions in (mm).

- ¹⁾ ANSI B92.1a • 30° pressure angle, flat root, side fit, tolerance class 5.
- ²⁾ Splines according to ANSI B92.1a, run out of spline is a deviation from standard.
- ³⁾ Thread according to ASME B1.1.
- ⁴⁾ Thread according to DIN 13.
- ⁵⁾ For the maximum tightening torques the general instructions on page 53 must be observed.
- ⁶⁾ ANSI B92.1a-1976, 30° pressure angle, flat root side fit, flank centering, tolerance class 5.

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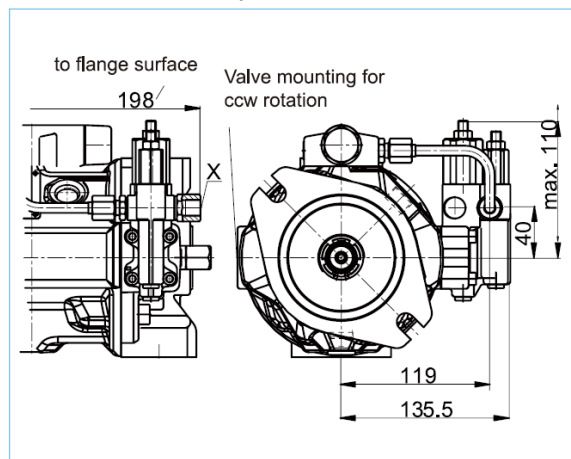


HIDRÁULICA
ROGIMAR

SAE SIZE | DIMENSIONS: SIZE 28

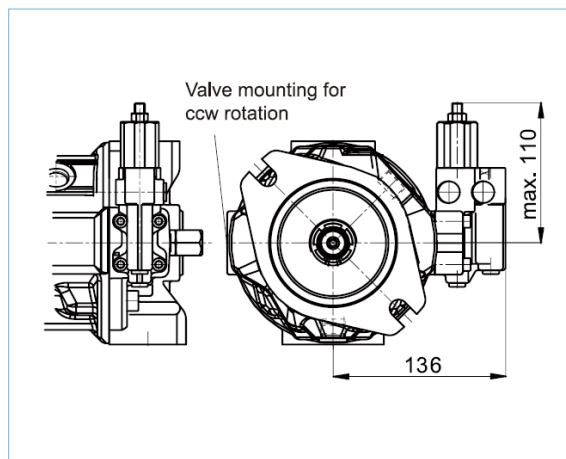
DFLR

Pressure, flow and power control



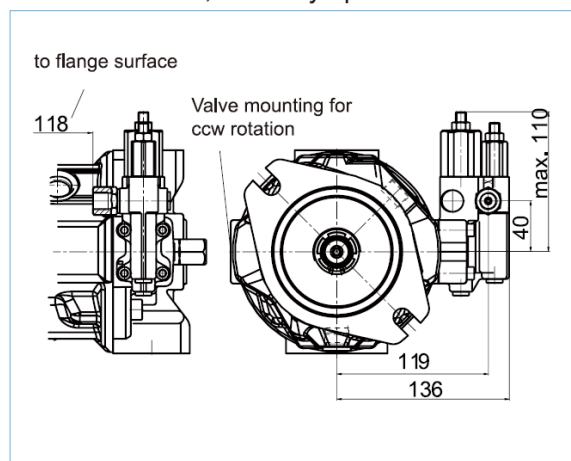
DR

Pressure control



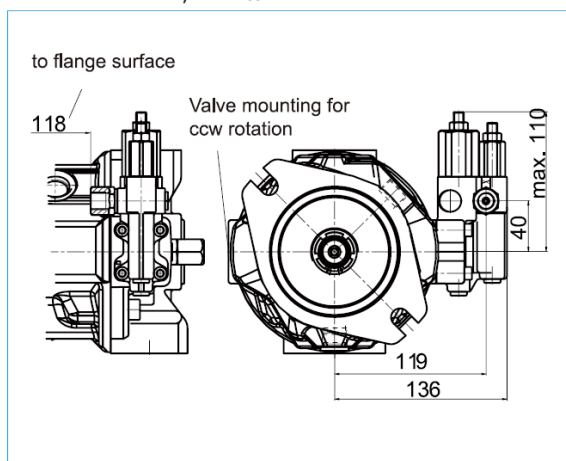
DRG

Pressure control, remotely operated



DFR/DFR1

Pressure control, with flow control



Before finalizing your design request a certified installation drawing. Dimensions in (mm).

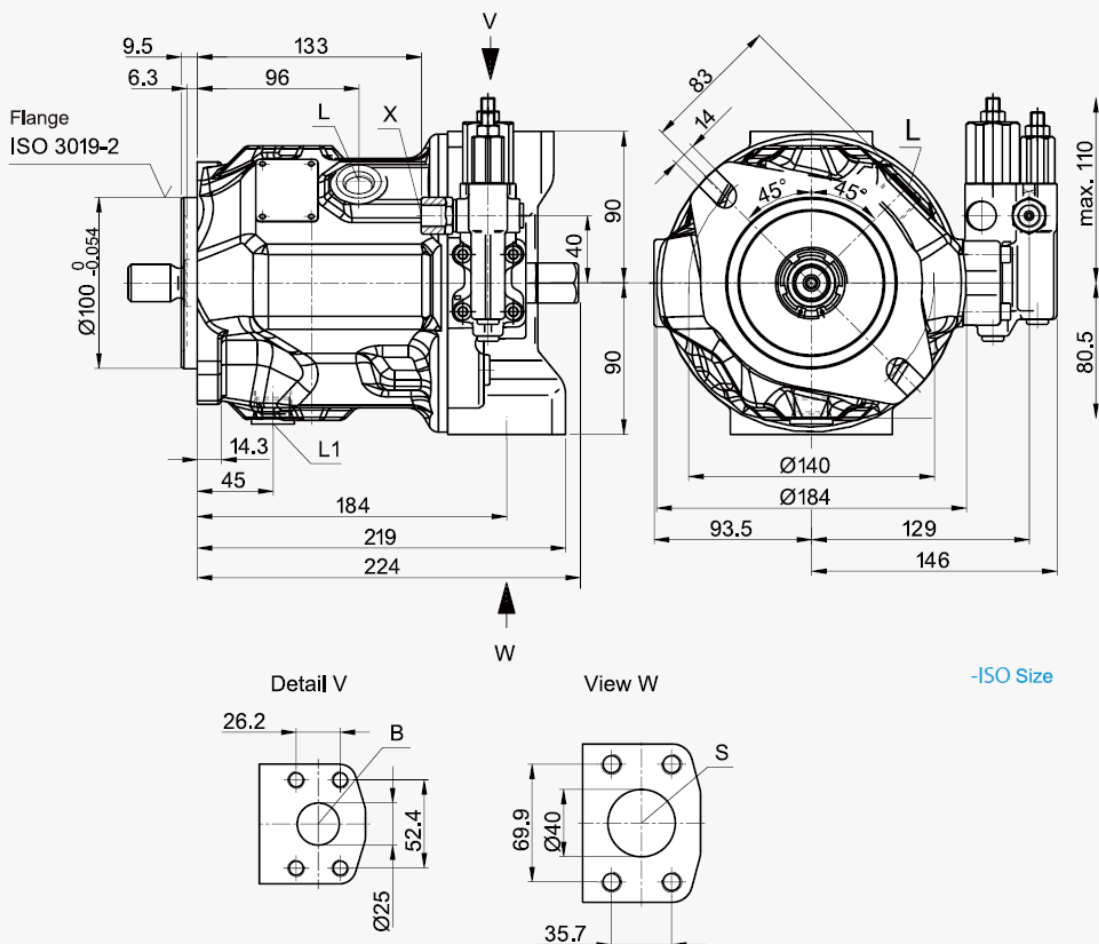


HIDRÁULICA
ROGIMAR

ISO SIZE | DIMENSIONS: SIZE 45

DFR/DFR1 – Pressure and flow control, hydraulic

Clockwise rotation



-ISO Size

PORTS

Before finalizing your design request a certified installation drawing.
Dimensions in (mm).

Designation	Port for	Standard	Size ¹⁾	Maximum pressure[psi(bar)] ²⁾	State
B	Service line, fastening thread	SAE J518 ³⁾ DIN 13	1 in M10 x 1.5 : 17 (deep)	5100(350)	O
S	Suction line, fastening thread	SAE J518 ³⁾ DIN 13	1 1/2in M12 x 1.75 : 20 (deep)	145(10)	O
L	Case drain fluid	DIN 3852 ⁴⁾	M22 x 1.5 : 14 (deep)	30(2)	O ⁵⁾
L ₁	Case drain fluid	DIN 3852 ⁴⁾	M22 x 1.5 : 14 (deep)	30(2)	X ⁵⁾
X	Pilot pressure	DIN 3852 ⁴⁾	M14 x 1.5 : 12 (deep)	5100(350)	O
X	Pilot press. with DG-control	DIN ISO 228 ⁴⁾	G 1/4 in	5100(350)	O

¹⁾ For the maximum tightening torques the general instructions on page 53 must be observed.

²⁾ Depending on the application, short-term pressure spikes can occur. Keep this in mind when selecting measuring equipment and fittings. Pressure values in bar absolute.

³⁾ The dimension follow SAE J518, Metric fastening thread and standard thread are different.

⁴⁾ The spot face can be deeper than as specified in the standard

⁵⁾ Depending on the installation position, L or L₁ must be connected (please check assembling instruction on page 51).

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X = Plugged (in normal operation)

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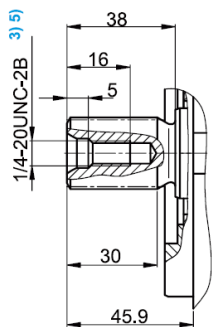


HIDRÁULICA
ROGIMAR

ISO - SAE SIZE | DIMENSIONS: SIZE 45

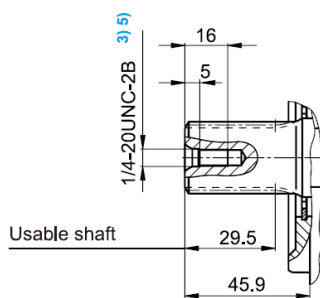
DRIVE SHAFT

S Splined shaft 1 in
15T 16/32DP¹⁾ (SAE J744)



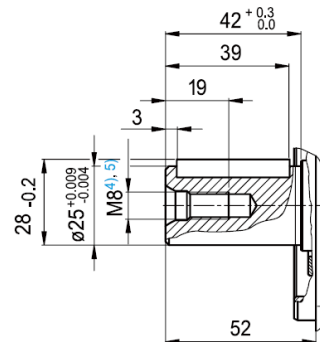
-ISO Size

R Splined shaft 1 in
15T 16/32DP¹⁾²⁾ (SAE J744)



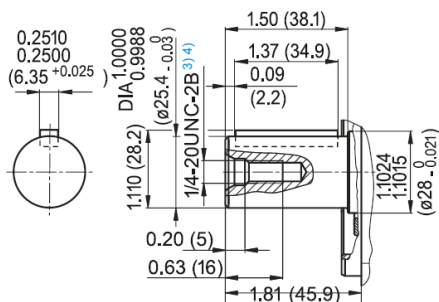
-ISO Size

P Parallel shaft key
DIN 6885 · A8x7x36



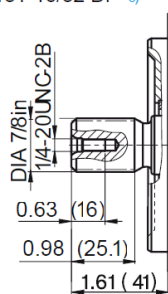
-ISO Size

K Parallel shaft key
ISO 3019-1, 25-1



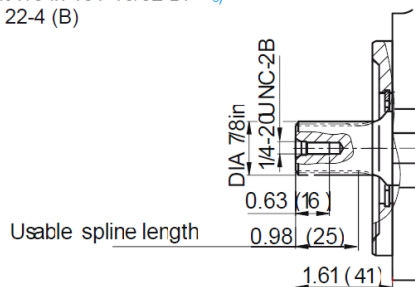
-SAE Size

U Splined shaft 7/8 in 13T 16/32 DP⁶⁾
SAE J744 - 22-4 (B)



-SAE Size

W Splined shaft 7/8 in 13T 16/32 DP⁶⁾
SAE J744 - 22-4 (B)



-SAE Size

Before finalizing your design request a certified installation drawing. Dimensions in (mm).

¹⁾ ANSI B92.1a, 30° pressure angle, flat root, side fit, tolerance class 5.

²⁾ Splines according to ANSI B92.1a, run out of spline is a deviation from standard.

³⁾ Thread according to ASME B1.1.

⁴⁾ Thread according to DIN 13.

⁵⁾ For the maximum tightening torques the general instructions on page 53 must be observed.

⁶⁾ ANSI B92.1a-1976, 30° pressure angle, flat root side fit, flank centering, tolerance class 5.

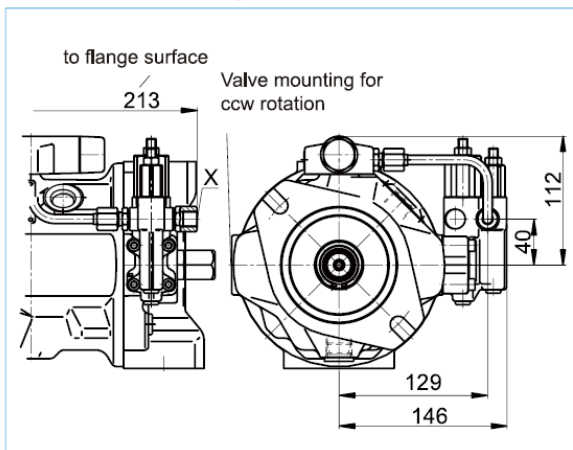


HIDRÁULICA
ROGIMAR

SAE SIZE | DIMENSIONS: SIZE 45

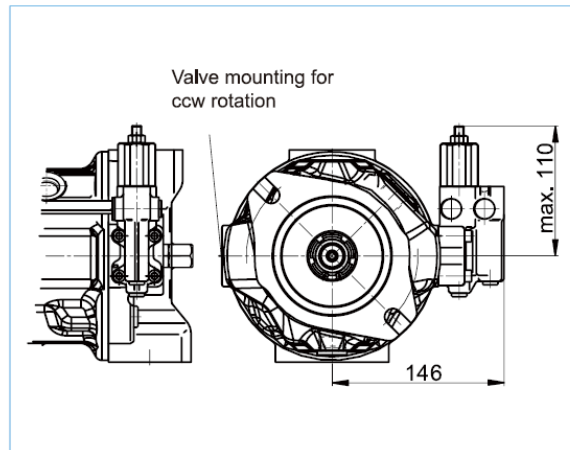
DFLR

Pressure, flow and power control



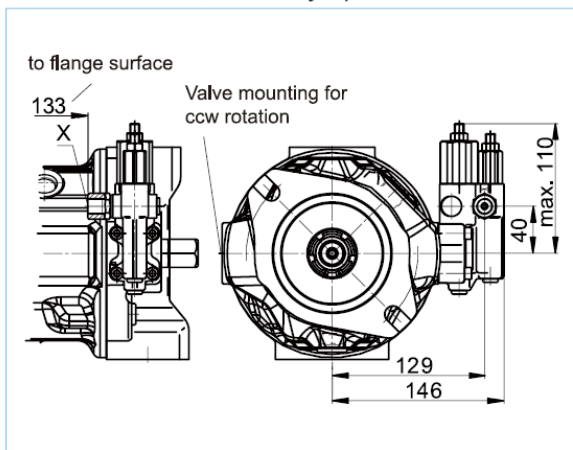
DR

Pressure control



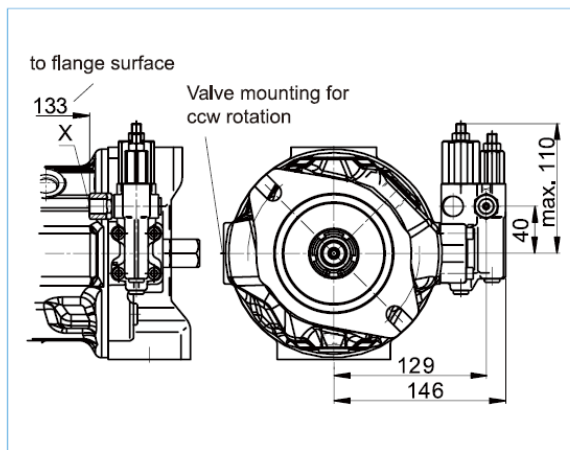
DRG

Pressure control, remotely operated



DFR/DFR1

Pressure control, with flow control

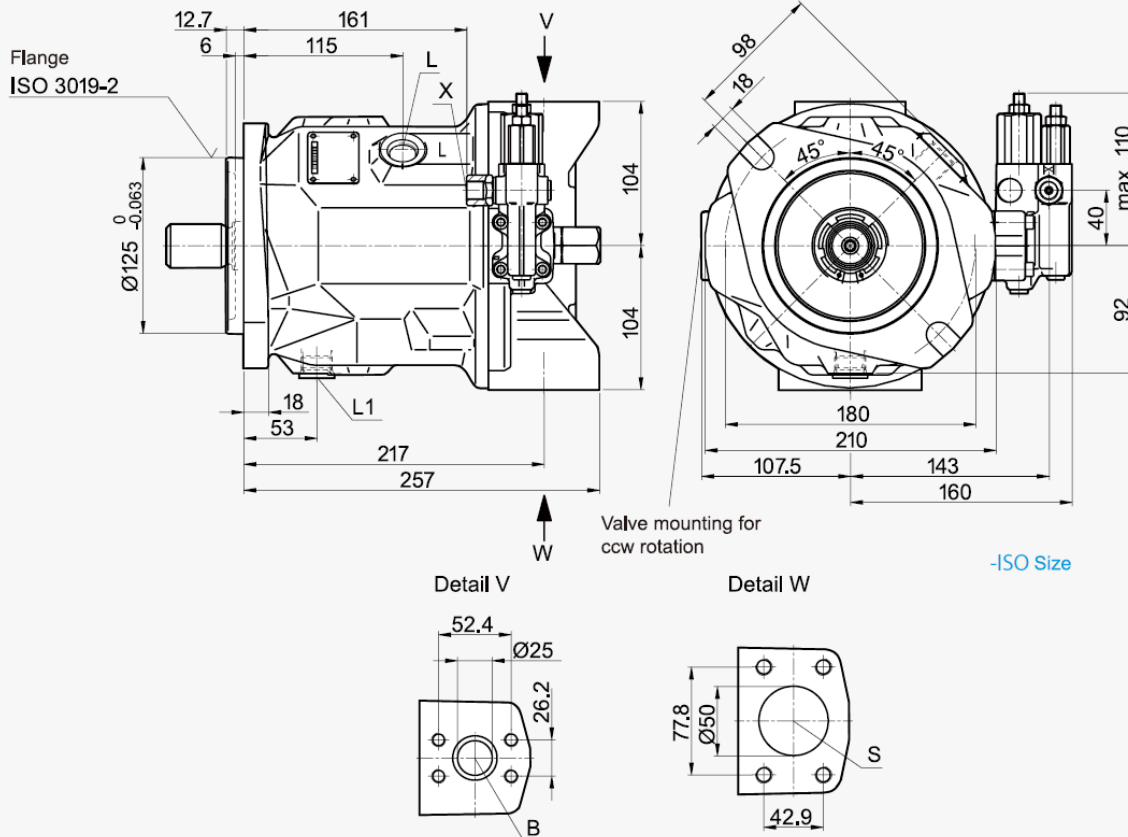


Before finalizing your design request a certified installation drawing. Dimensions in (mm).

ISO SIZE | DIMENSIONS: SIZE 71

DFR/DFR1 – Pressure and flow control, hydraulic

Clockwise rotation



PORTS

Before finalizing your design request a certified installation drawing.
Dimensions in (mm).

Designation	Port for	Standard	Size ¹⁾	Maximum pressure[psi(bar)] ²⁾	State
B	Service line, fastening thread	SAE J518 ³⁾ DIN 13	1 in M10 x 1.5 : 17 (deep)	500(350)	O
S	Suction line, fastening thread	SAE J518 ³⁾ DIN 13	2 in M12 x 1.75 : 20 (deep)	145(10)	O
L	Case drain fluid	DIN 3852 ⁴⁾	M22 x 1.5 : 14 (deep)	30(2)	O ⁵⁾
L ₁	Case drain fluid	DIN 3852 ⁴⁾	M22 x 1.5 : 14 (deep)	30(2)	X ⁵⁾
X	Pilot pressure	DIN 3852 ⁴⁾	M14 x 1.5 : 12 (deep)	5100(350)	O
X	Pilot press. with DG-control	DIN ISO 228 ⁴⁾	G 1/4 in	5100(350)	O

1) For the maximum tightening torques the general instructions on page 53 must be observed.

2) Depending on the application, short-term pressure spikes can occur. Keep this in mind when selecting measuring equipment and fittings. Pressure values in bar absolute.

3) The dimension follow SAE J518, Metric fastening thread and standard thread are different.

4) The spot face can be deeper than as specified in the standard.

⁵⁾ Depending on the installation position, L or L1 must be connected (please check assembling instruction on page 51).

O = Must be connected (plugged on delivery)

X = Plugged (in normal operation)

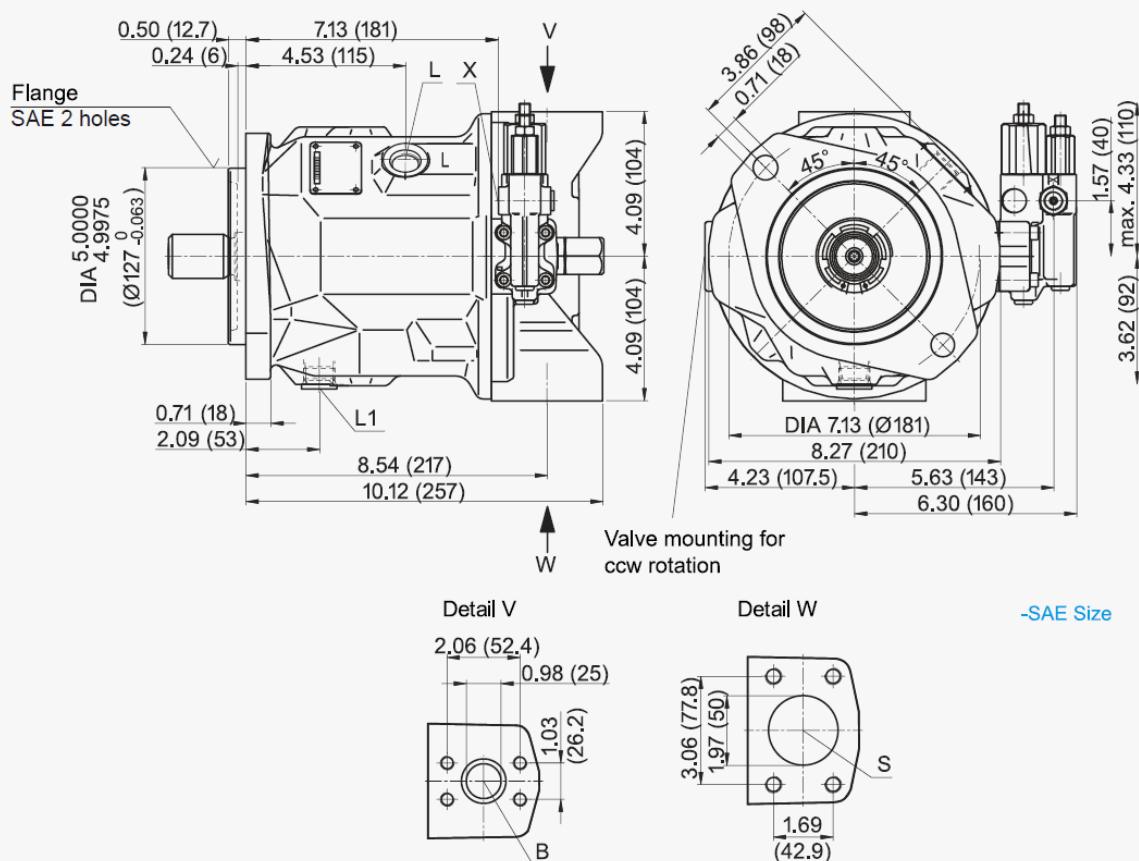


HIDRÁULICA
ROGIMAR

SAE SIZE | DIMENSIONS: SIZE 7I

DFR/DFR1 – Pressure and flow control, hydraulic

Clockwise rotation



PORTS

Before finalizing your design request a certified installation drawing.
Dimensions in inches and (mm).

Designation	Port for	Standard	Size ¹⁾	Maximum pressure[psi(bar)] ²⁾	State
B	Service line, fastening thread	SAE J518 ASME B1.1	1 in 3/8-16 UNC-2B; 0.71 (18) deep	5100(350)	O
S	Suction line, fastening thread	SAE J518 ASME B1.1	2 in 1/2-13 UNC-2B; 0.87 (22) deep	145(10)	O
L	Case drain fluid	ISO 11926 ³⁾	7/8-14 UNF-2B; 0.55 (14) deep	30(2)	O ⁴⁾
L1	Case drain fluid	ISO 11926 ³⁾	7/8-14 UNF-2B; 0.55 (14) deep	30(2)	X ⁴⁾
X	Pilot pressure	ISO 11926 ³⁾	7/16-20 UNF-2B; 0.45 (12) deep	5100(350)	O
X	Pilot press. with DG-control	DIN ISO 228 ³⁾	G 1/4 in	5100(350)	O

¹⁾ For the maximum tightening torques the general instructions on page 53 must be observed.

²⁾ Depending on the application, short-term pressure spikes can occur. Keep this in mind when selecting measuring equipment and fittings. Pressure values in bar absolute.

³⁾ The spot face can be deeper than as specified in the standard.

⁴⁾ Depending on the installation position, L or L1 must be connected (please check assembling instruction on page 51).

O = Must be connected (plugged on delivery)

X = Plugged (in normal operation)

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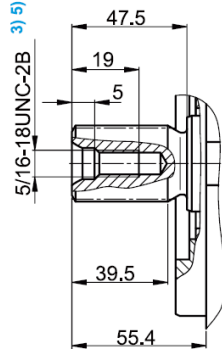
HIDRÁULICA
ROGIMAR

ISO - SAE SIZE | DIMENSIONS: SIZE 71

DRIVE SHAFT

S

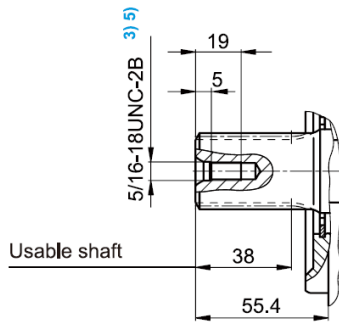
Splined shaft 1 1/4 in
14T 12/24DP ¹⁾ (SAE J744)



-ISO Size

R

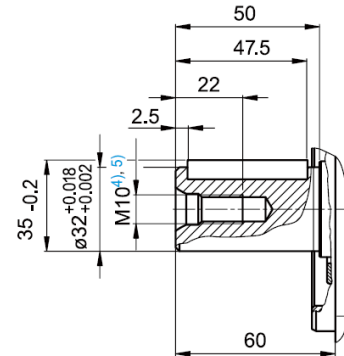
Splined shaft 1 1/4 in
14T 12/24DP ¹⁾ ²⁾ (SAE J744)



-ISO Size

P

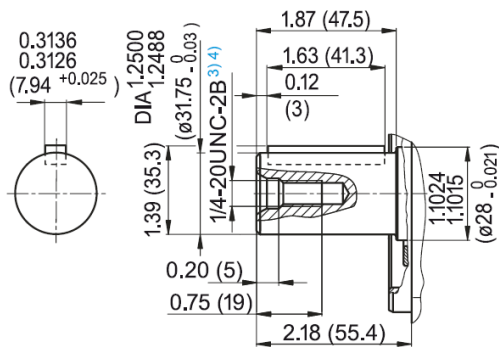
Parallel shaft key
DIN 6885 • A10x8x45



-ISO Size

K

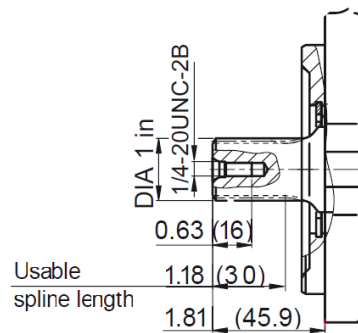
Parallel shaft key
ISO 3019-1, 32-1



-SAE Size

W

Splined shaft 1 in 15T 16/32 DP
SAE J744- 25-4 (B-B) ⁶⁾



Before finalizing your design request a certified installation drawing. Dimensions in (mm).

- ¹⁾ ANSI B92.1a, 30° pressure angle, flat root, side fit, tolerance class 5.
- ²⁾ Splines according to ANSI B92.1a, run out of spline is a deviation from standard.
- ³⁾ Thread according to ASME B1.1.
- ⁴⁾ Thread according to DIN 13.
- ⁵⁾ For the maximum tightening torques the general instructions on page 53 must be observed.
- ⁶⁾ ANSI B92.1a-1976, 30° pressure angle, flat root side fit, flank centering, tolerance class 5.

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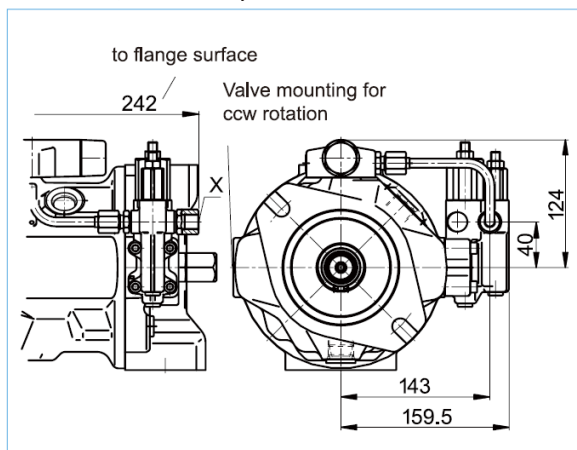


HIDRÁULICA
ROGIMAR

SAE SIZE | DIMENSIONS: SIZE 7I

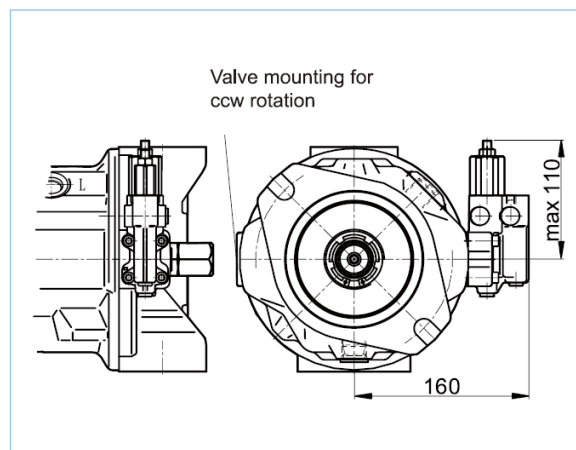
DFLR

Pressure, flow and power control



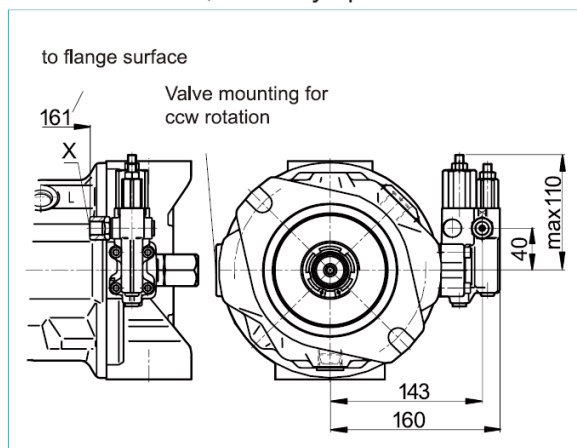
DR

Pressure control



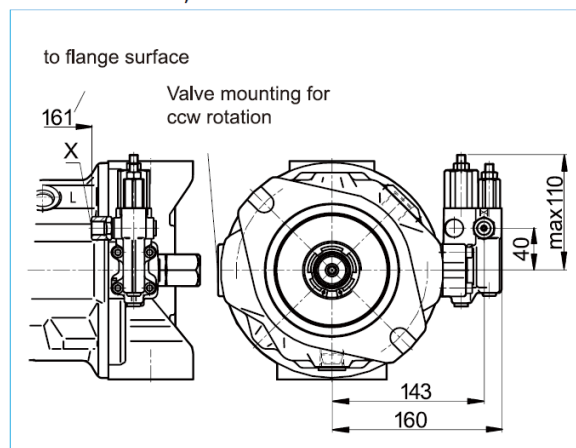
DRG

Pressure control, remotely operated



DFR/DFR1

Pressure control, with flow control



Before finalizing your design request a certified installation drawing. Dimensions in (mm).

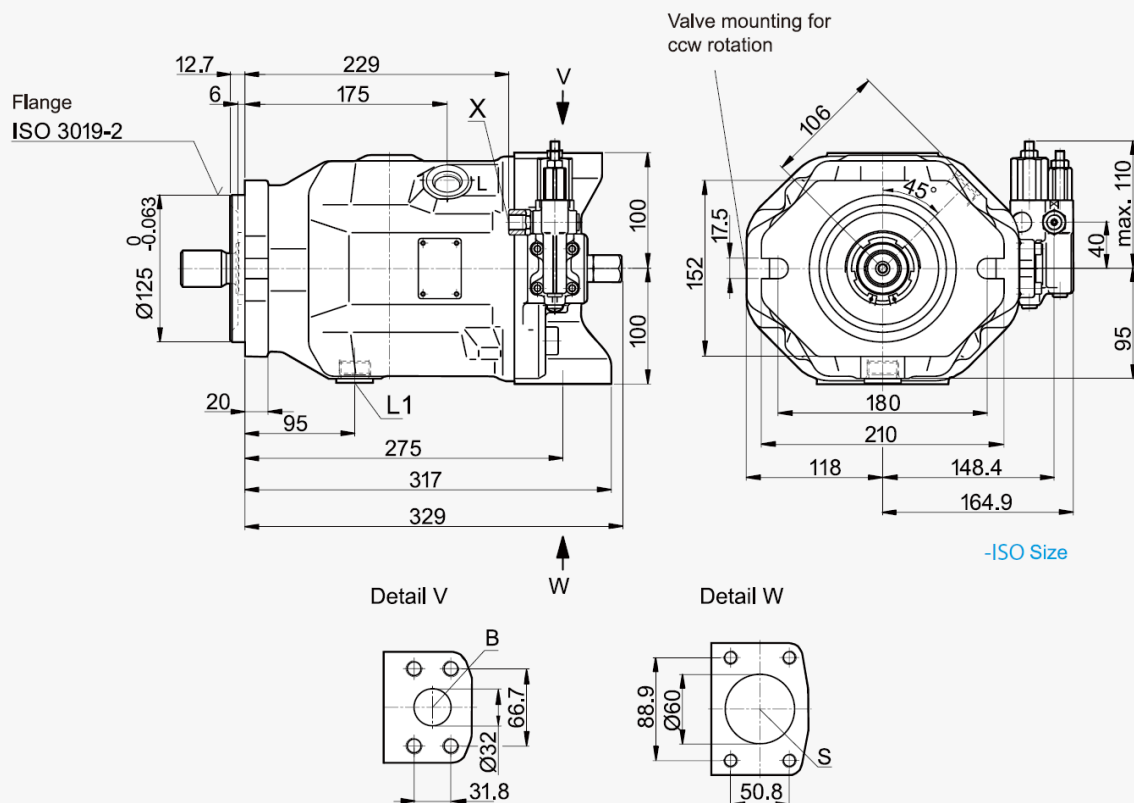


HIDRÁULICA
ROGIMAR

ISO SIZE | DIMENSIONS: SIZE 100

DFR/DFR1 – Pressure and flow control, hydraulic

Clockwise rotation



PORTS

Before finalizing your design request a certified installation drawing.
Dimensions in (mm).

Designation	Port for	Standard	Size ¹⁾	Maximum pressure[psi(bar)] ²⁾	State
B	Service line, fastening thread	SAE J518 ³⁾ DIN 13	1 1/4 in M14 x 2 : 19 (deep)	5100(350)	O
S	Suction line, fastening thread	SAE J518 ³⁾ DIN 13	2 1/2in M12 x 1.75 : 17 (deep)	145(10)	O
L	Case drain fluid	DIN 3852 ⁴⁾	M27 x 2 : 16 (deep)	30(2)	O ⁵⁾
L ₁	Case drain fluid	DIN 3852 ⁴⁾	M27 x 2 : 16 (deep)	30(2)	X ⁵⁾
X	Pilot pressure	DIN 3852 ⁴⁾	M14 x 1.5 : 12 (deep)	5100(350)	O
X	Pilot press. with DG-control	DIN ISO 228 ⁴⁾	G 1/4 in	5100(350)	O

- ¹⁾ For the maximum tightening torques the general instructions on page 53 must be observed.
- ²⁾ Depending on the application, short-term pressure spikes can occur. Keep this in mind when selecting measuring equipment and fittings. Pressure values in bar absolute.
- ³⁾ The dimension follow SAE J518, Metric fastening thread and standard thread are different.
- ⁴⁾ The spot face can be deeper than as specified in the standard
- ⁵⁾ Depending on the installation position, L or L₁ must be connected (please check assembling instruction on page 51).
- O = Must be connected (plugged on delivery)
- X = Plugged (in normal operation)

Hidráulica Rogimar se reserva el derecho de cambiar total o parcialmente cualquier medida e información técnica contenida en este documento sin previo aviso.

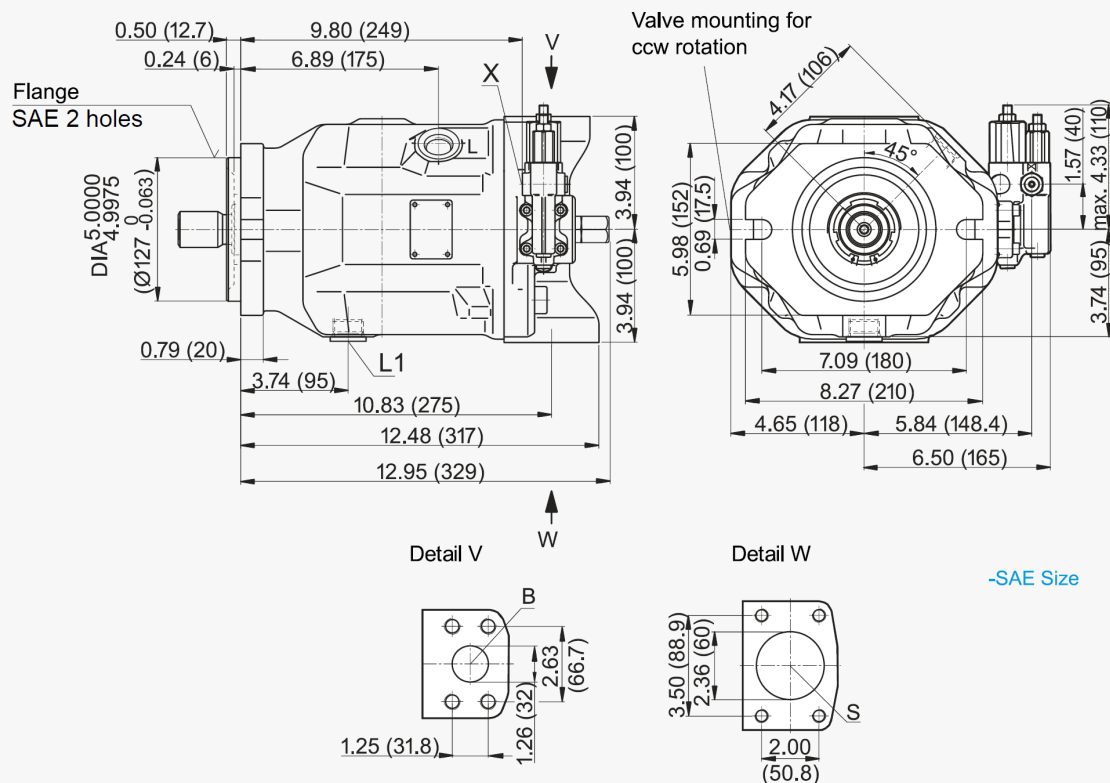


HIDRÁULICA
ROGIMAR

SAE SIZE | DIMENSIONS: SIZE 100

DFR/DFR1 – Pressure and flow control, hydraulic

Clockwise rotation



PORTS

Before finalizing your design request a certified installation drawing.
Dimensions in inches and (mm).

Designation	Port for	Standard	Size ¹⁾	Maximum pressure[psi(bar)] ²⁾	State
B	Service line, fastening thread	SAE J518 ASME B1.1	1 1/4 in 1/2-13 UNC-2B; 0.75 (19) deep	5100(350)	O
S	Suction line, fastening thread	SAE J518 ASME B1.1	2 1/2 in 1/2-13 UNC-2B; 1.06 (27) deep	145(10)	O
L	Case drain fluid	ISO 11926 ³⁾	1 1/16-12 UNF-2B; 0.63 (16) deep 30(2)		O ⁴⁾
L1	Case drain fluid	ISO 11926 ³⁾	1 1/16-12 UNF-2B; 0.63 (16) deep 30(2)		X ⁴⁾
X	Pilot pressure	ISO 11926 ³⁾	7/16-20 UNF-2B; 0.45 (12) deep	5100(350)	O
X	Pilot press. with DG-control	DIN ISO 228 ³⁾	G 1/4 in	5100(350)	O

- For the maximum tightening torques the general instructions on page 53 must be observed.
- Depending on the application, short-term pressure spikes can occur. Keep this in mind when selecting measuring equipment and fittings. Pressure values in bar absolute.
- The spot face can be deeper than as specified in the standard.
- Depending on the installation position, L or L1 must be connected (please check assembling instruction on page 51).
O = Must be connected (plugged on delivery)
X = Plugged (in normal operation)

Hidráulica Rogimar se reserva el derecho de cambiar total o parcialmente cualquier medida e información técnica contenida en este documento sin previo aviso.

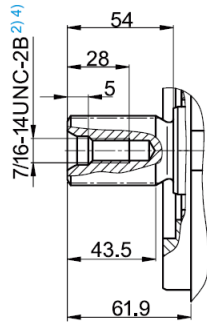


HIDRÁULICA
ROGIMAR

ISO - SAE SIZE | DIMENSIONS: SIZE 100

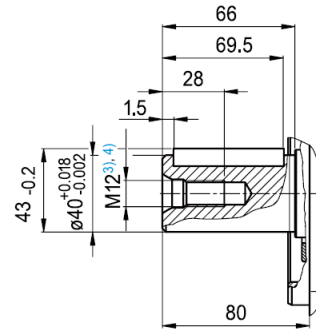
DRIVE SHAFT

S Splined shaft 1 1/2 in
17T 12/24DP ¹⁾ (SAE J744)



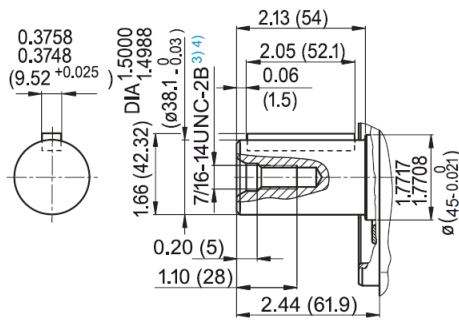
-ISO Size

P Parallel shaft key
DIN 6885 · A12x8x68



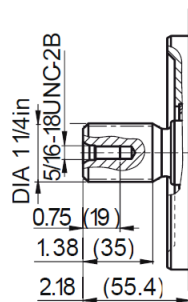
-ISO Size

K Parallel shaft key
ISO 3019-1, 38-1



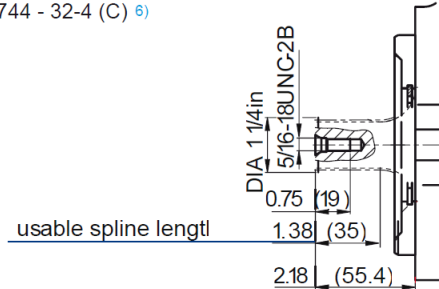
-SAE Size

U Splined shaft 1 1/4 in 14T 12/24 DP1) SAE
J744 - 32-4 (C) ⁶⁾



-SAE Size

W Splined shaft 1 1/4 in 14T 12/24 DP1) SAE
J744 - 32-4 (C) ⁶⁾



-SAE Size

Before finalizing your design request a certified installation drawing. Dimensions in (mm).

- ¹⁾ ANSI B92.1a, 30° pressure angle, flat root, side fit, tolerance class 5.
- ²⁾ Splines according to ANSI B92.1a, run out of spline is a deviation from standard.
- ³⁾ Thread according to ASME B1.1.
- ⁴⁾ Thread according to DIN 13.
- ⁵⁾ For the maximum tightening torques the general instructions on page 53 must be observed.
- ⁶⁾ ANSI B92.1a-1976, 30° pressure angle, flat root side fit, flank centering, tolerance class 5.

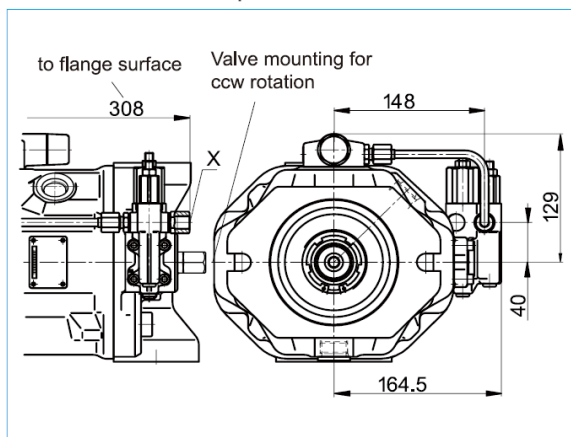


HIDRÁULICA
ROGIMAR

SAE SIZE | DIMENSIONS: SIZE 100

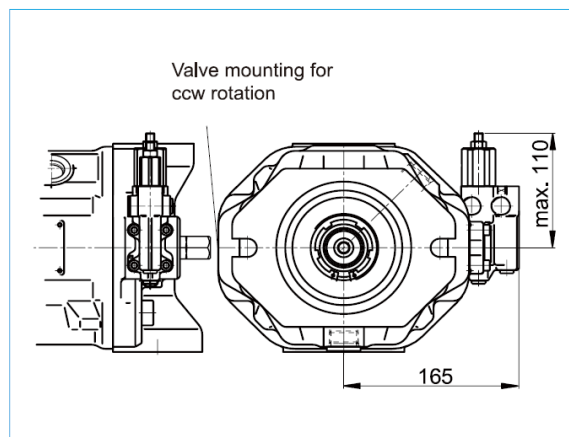
DFLR

Pressure, flow and power control



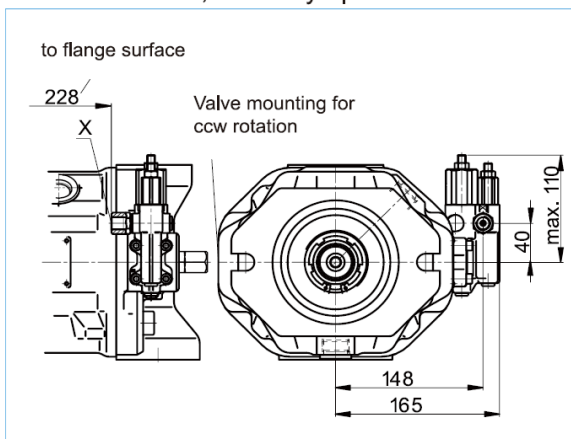
DR

Pressure control



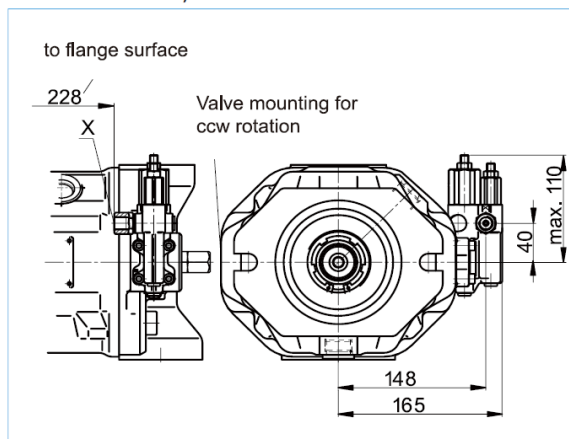
DRG

Pressure control, remotely operated



DFR/DFR1

Pressure control, with flow control



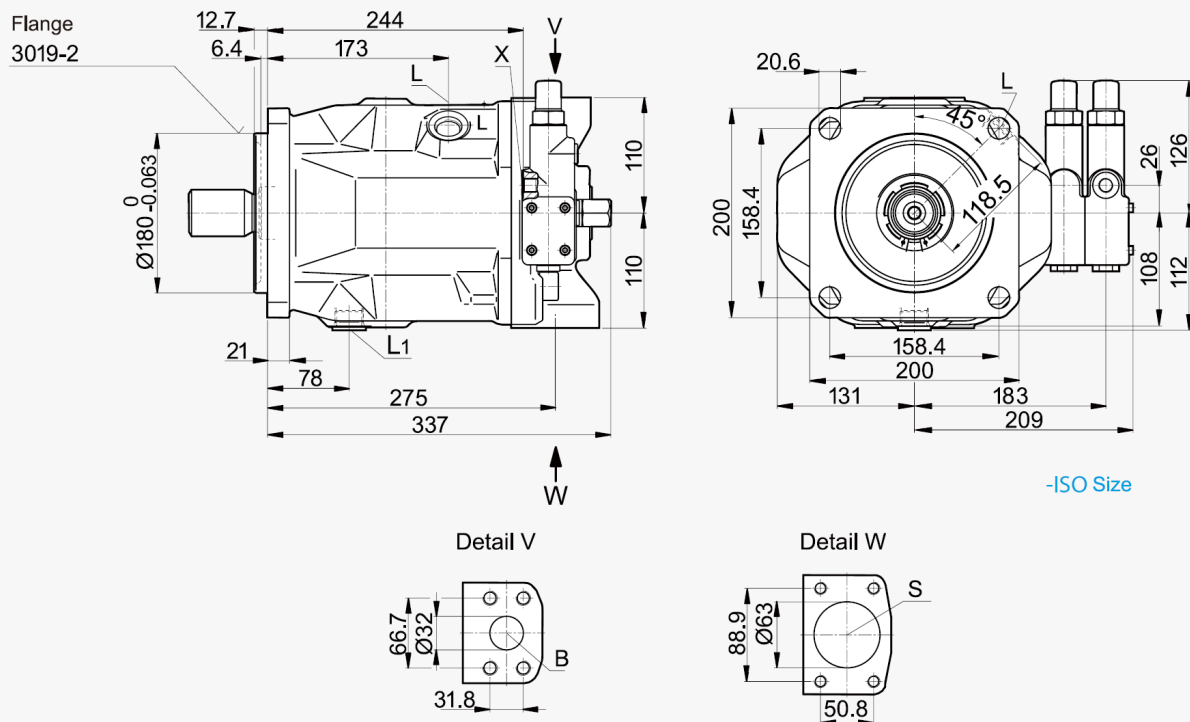
Before finalizing your design request a certified installation drawing. Dimensions in (mm).



HIDRÁULICA
ROGIMAR

ISO SIZE | DIMENSIONS: SIZE 140

DFR/DFR1 — Pressure and flow control, hydraulic
Clockwise rotation



Before finalizing your design request a certified installation drawing.
Dimensions in (mm).

PORTS

Designation	Port for	Standard	Size ¹⁾	Maximum pressure[psi(bar)] ²⁾	State
B	Service line, fastening thread	SAE J518 ³⁾ DIN 13	1 1/4 in M14 x 2 : 19 (deep)	5100(350)	O
S	Suction line, fastening thread	SAE J518 ³⁾ DIN 13	2 1/2 in M12 x 1.75 : 17 (deep)	145(10)	O
L	Case drain fluid	DIN 3852 ⁴⁾	M27 x 2 : 16 (deep)	30(2)	O ⁵⁾
L ₁	Case drain fluid	DIN 3852 ⁴⁾	M27 x 2 : 16 (deep)	30(2)	X ⁵⁾
X	Pilot pressure	DIN 3852 ⁴⁾	M14 x 1.5 : 12 (deep)	5100(350)	O
X	Pilot press. with DG-control	DIN 3852 ⁴⁾	M14 x 1.5 : 12 (deep)	5100(350)	O
MH	Gauge port, high pressure	DIN 3852	M14 x 1.5 : 12 deep	5100(350)	X

¹⁾ For the maximum tightening torques the general instructions on page 53 must be observed.

²⁾ Depending on the application, short-term pressure spikes can occur. Keep this in mind when selecting measuring equipment and fittings. Pressure values in bar absolute.

³⁾ The dimension follow SAE J518, Metric fastening thread and standard thread are different.

⁴⁾ The spot face can be deeper than as specified in the standard

⁵⁾ Depending on the installation position, L or L₁ must be connected (please check assembling instruction on page 51).

O = Must be connected (plugged on delivery)

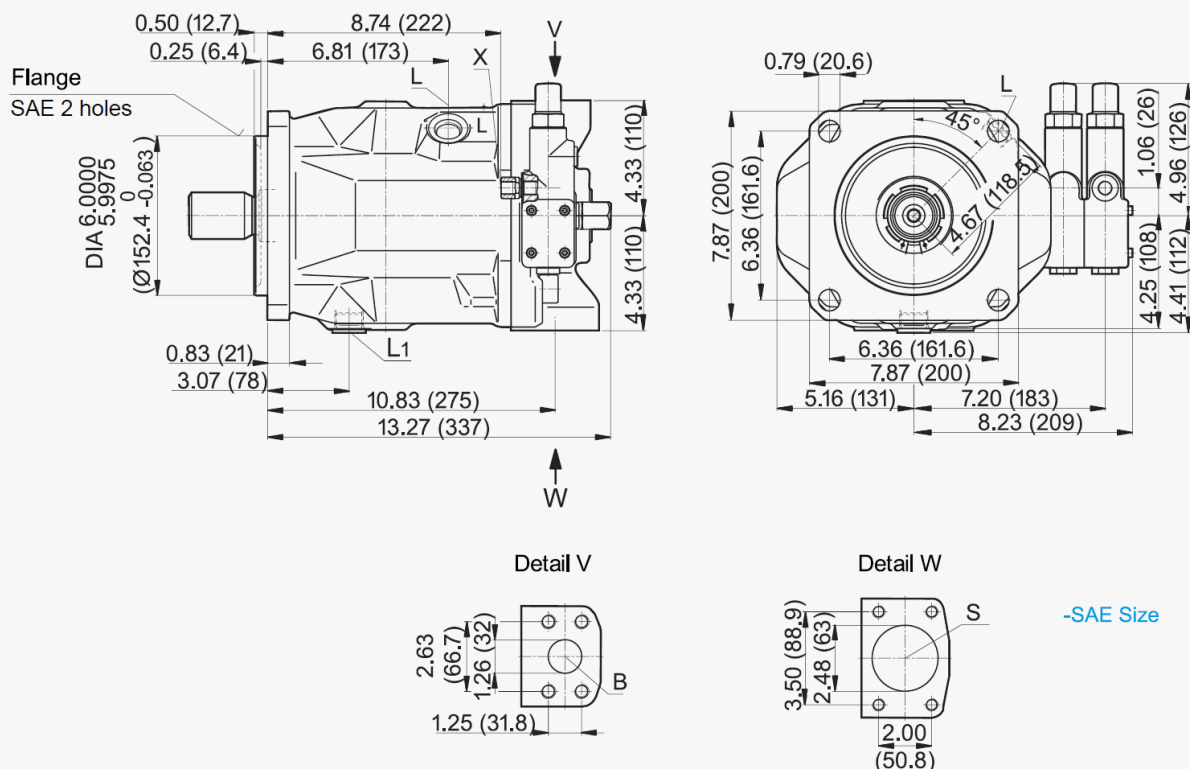
X = Plugged (in normal operation)

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SAE SIZE | DIMENSIONS: SIZE 140

DFR/DFR1 — Pressure and flow control, hydraulic

Clockwise rotation



PORTS

Before finalizing your design request a certified installation drawing.
Dimensions in inches and (mm).

Designation	Port for	Standard	Size ¹⁾	Maximum pressure[psi(bar)] ²⁾	State
B	Service line, fastening thread	SAE J518 ASME B1.1	1 1/4 in 1/2-13 UNC-2B; 0.94 (24) deep	5100(350)	O
S	Suction line, fastening thread	SAE J518 ASME B1.1	2 1/2 in 1/2-13 UNC-2B; 0.94 (24) deep	145(10)	O
L	Case drain fluid	ISO 11926 ³⁾	1 1/16-12 UNF-2B; 0.63 (16) deep	30(2)	O ⁴⁾
L1	Case drain fluid	ISO 11926 ³⁾	1 1/16-12 UNF-2B; 0.63 (16) deep	30(2)	X ⁴⁾
X	Pilot pressure	ISO 11926 ³⁾	9/16-18 UNF-2B; 0.51 (13) deep	5100(350)	O
X	Pilot press. with DG-control	DIN ISO 228 ³⁾	M14 x 1.5; 0.47 (12) deep	5100(350)	O
M _H	Gauge port, high pressure	DIN 3852	M14 x 1.5, 0.47 (12) deep	5100(350)	X

1) For the maximum tightening torques the general instructions on page 53 must be observed.

2) Depending on the application, short-term pressure spikes can occur. Keep this in mind when selecting measuring equipment and fittings. Pressure values in bar absolute.

3) The spot face can be deeper than as specified in the standard.

4) Depending on the installation position, L or L1 must be connected (please check assembling instruction on page 51).

O = Must be connected (plugged on delivery)

X = Plugged (in normal operation)

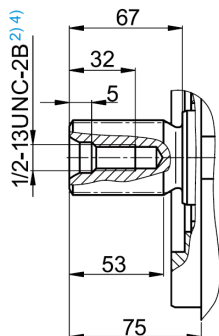


HIDRÁULICA
ROGIMAR

ISO - SAE SIZE | DIMENSIONS: SIZE 140

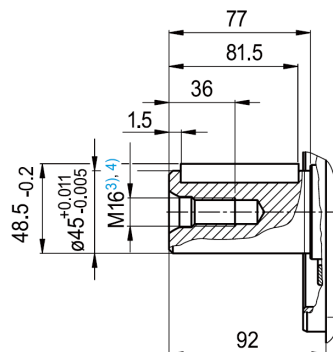
DRIVE

S Splined shaft 1 3/4 in
13T 8/16DP ¹⁾ (SAE J744)



-ISO Size

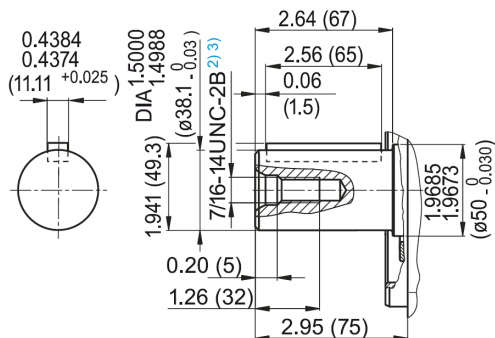
P Parallel shaft key
DIN 6885 • A14x9x80



-ISO Size

K

Parallel shaft key
ISO 3019-1, 44-1



-SAE Size

Before finalizing your design request a certified installation drawing. Dimensions in (mm).

- ¹⁾ ANSI B92.1a, 30° pressure angle, flat root, side fit, tolerance class 5.
- ²⁾ Thread according to ASME B1.1.
- ³⁾ Thread according to DIN 13.
- ⁴⁾ For the maximum tightening torques the general instructions on page 53 must be observed.

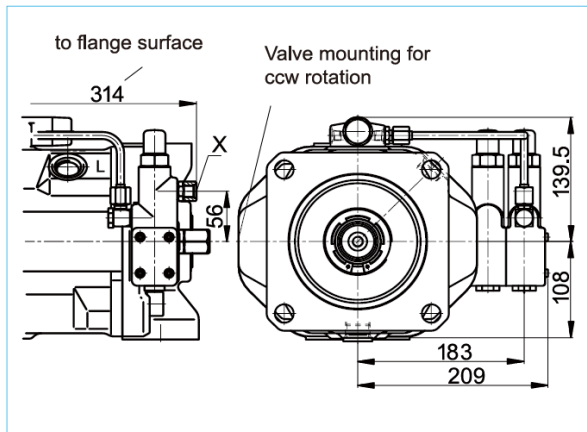


HIDRÁULICA
ROGIMAR

SAE SIZE | DIMENSIONS: SIZE 140

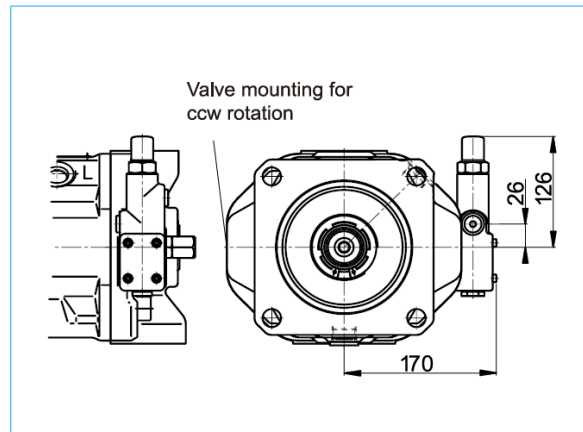
DFLR

Pressure, flow and power control



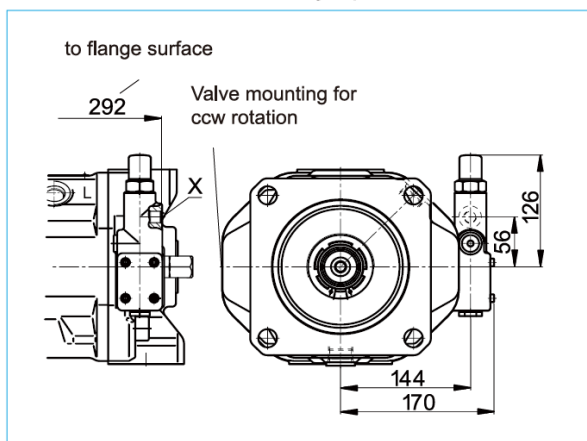
DR

Pressure control



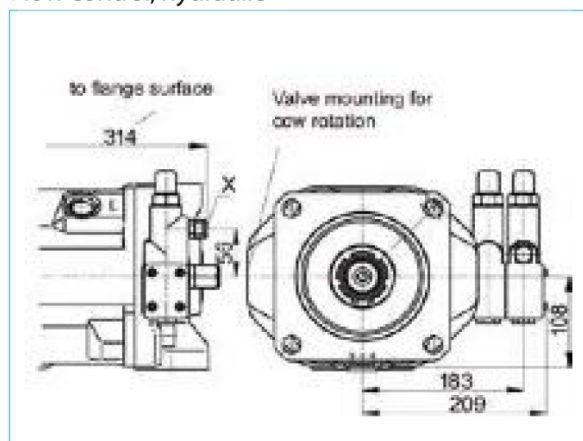
DRG

Pressure control, remotely operated



DFR/DFR1

Flow control, hydraulic



Before finalizing your design request a certified installation drawing. Dimensions in (mm).