

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922) 49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Ижевск (3412)26-03-58
Иваново (4932)77-34-06
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Ноябрьск (3496)41-32-12
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37

Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Саранск (8342)22-96-24
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сыктывкар (8212)25-95-17
Сургут (3462)77-98-35
Тамбов (4752)50-40-97

Тверь (4822)63-31-35
Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Улан-Удэ (3012)59-97-51
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Киргизия (996)312-96-26-47

Россия (495)268-04-70

Казахстан (772)734-952-31

<https://kompass.nt-rt.ru> || kaf@nt-rt.ru

Поршневые насосы переменной производительности А-7 серии РА 10V

A-7 PA 10V 系列變量柱塞泵

Variable Displacement Piston Pumps

訂貨型號/標準產品 HOW TO ORDER

PA10V	O		/		-	V						
01	02	03	04	05	06	07	08	09	10	11	12	

軸向柱塞單元 Axial piston unit

01	斜盤設計, 變量泵, 公稱壓力250 bar, 最大壓力315 bar nominal pressure 3600 psi (250 bar), maximum pressure 4600 psi (315 bar)	10	18	28	45	60	63	85	100	PA10V(S)
		-	-	-	-	-	-	-	-	PA10V

工作模式 Operation mode

02	泵, 開式迴路 Pump,open circuit	O
----	---------------------------	---

規格 (NG) Size (NG)

03	規格 Size	NG	10	18	28	45	60	63	85	100
	幾何排量 Geometrical displacement per revolution	Vg max	0.61(10)	1.10(18)	1.71(28)	2.75(45)	3.66(60)	3.84(63)	5.9(85)	6.10(100)

控制設備 Control device

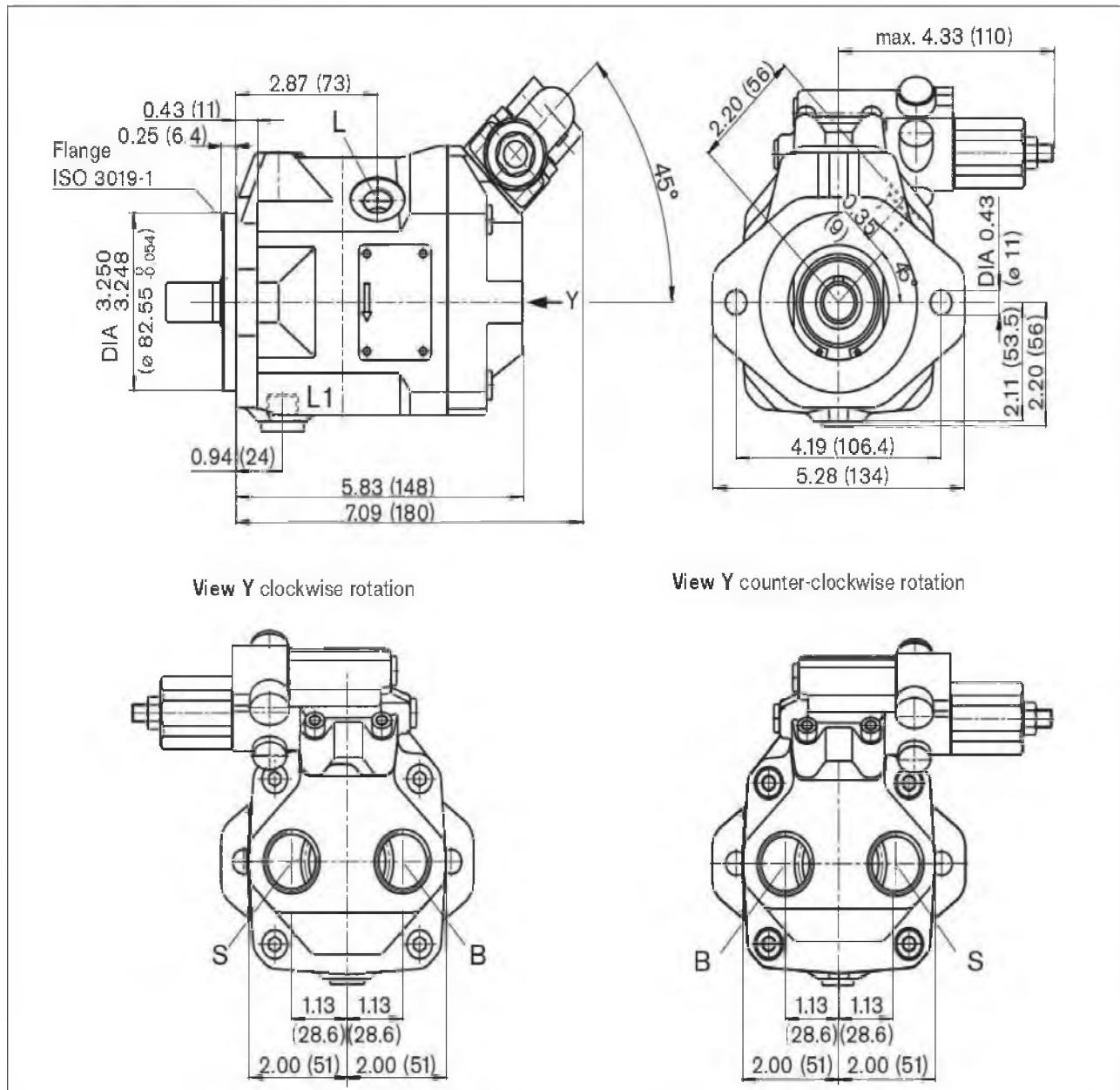
04	壓力控制 Pressure control		■ ■ ■ ■ ■ ■ ■ ■ ■ DR
	帶液壓流量控制 with flow control,hydraulic	X-T開啟 open	■ - ■ ■ ■ ■ ■ ■ ■ DFR
		X-T堵住 plugged	- ■ ■ ■ ■ ■ ■ ■ ■ ■ DFR1
	可電覆蓋(負特性) Electrically overridable (negative characteristic)		- ■ ■ ■ ■ ■ ■ ■ ■ ■ DRS
	帶遙控壓力切斷閥 with pressure cut-off,remotely operated		- □ □ □ - ■ ■ □ E.F.D ⁴⁾
	液壓 hydraulic		■ ■ ■ ■ ■ ■ ■ ■ ■ DFG
	電動控制 electrical	負極特性 negative characteristic	U=12 V - ■ ■ ■ ■ ■ ■ ■ ■ ■ ED71
		正極特性 positive characteristic	U=24 V - ■ ■ ■ ■ ■ ■ ■ ■ ■ ED72
			U=12 V - ■ ■ ■ ■ ■ ■ ■ ■ ■ ER71 ⁵⁾
			U=24 V - ■ ■ ■ ■ ■ ■ ■ ■ ■ ER72 ⁵⁾

帶有壓力切斷的功率控制 Power control with pressure cut-off

05	控制初始值 Start of control	145 to 510 psi (10 至 to 35 bar)	- ■ ■ ■ ■ ■ ■ ■ ■ ■ LA5D
		520 to 1015 psi (36 至 to 70 bar)	- ■ ■ ■ ■ ■ ■ ■ ■ ■ LA6D
		1030 to 1520 psi (71 至 to 105 bar)	- ■ ■ ■ ■ ■ ■ ■ ■ ■ LA7D
		1535 to 2030 psi (106 至 to 140 bar)	- ■ ■ ■ ■ ■ ■ ■ ■ ■ LA8D
		2045 to 3335 psi (141 至 to 230 bar)	- ■ ■ ■ ■ ■ ■ ■ ■ ■ LA9D
	遠程控制 remotely operated	控制初始值 Start of control	參見 see LA.D - ■ ■ ■ ■ ■ ■ ■ ■ ■ LA.DG
	流量控制,XT堵住 Flow control,X-T plugged	控制初始值 Start of control	參見 see LA.D - ■ ■ ■ ■ ■ ■ ■ ■ ■ LA.DS
	流量控制, 可電覆蓋(負特性),XT堵住 Flow control, electrically overridable (negative characteristic), X-T plugged	控制初始值 Start of control	參見 see LA.D - ■ ■ ■ ■ ■ ■ ■ ■ ■ LA.S

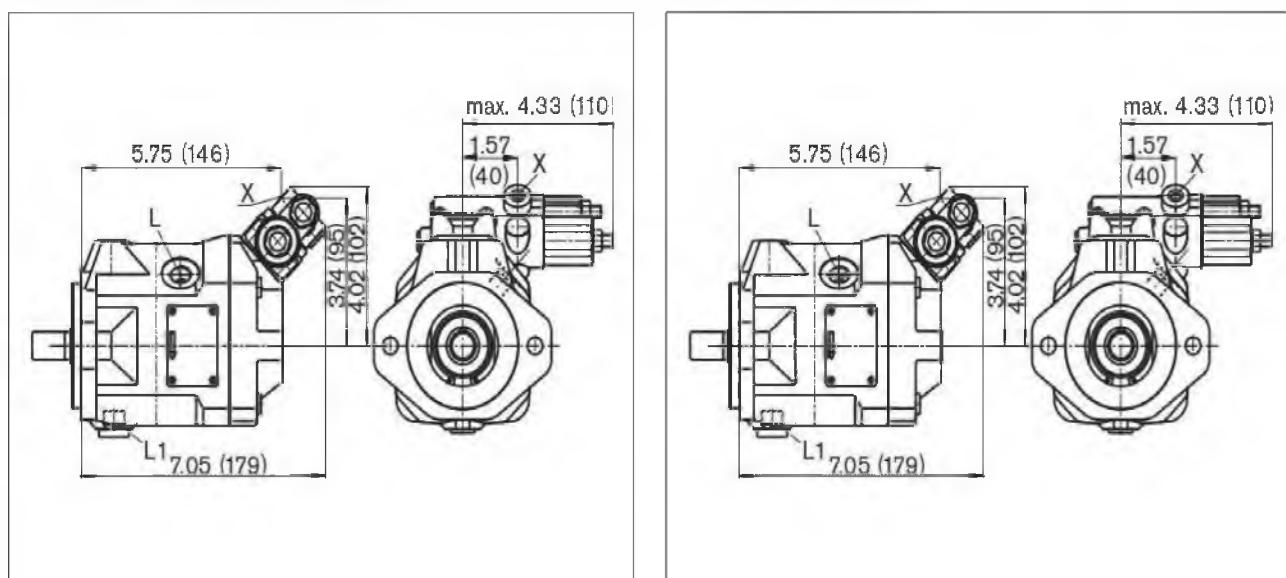
DR - Hydraulic pressure controller

Centering flange SAE version; series 52



DRG

Pressure and flow control, remote controlled

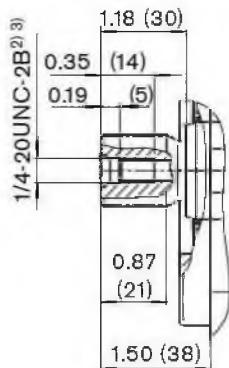


Dimensions, size 10

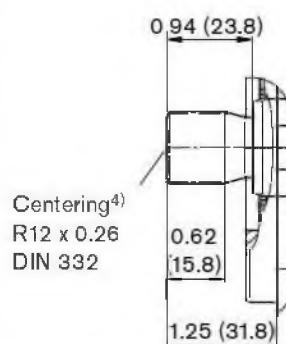
Before finalizing your design request a certified installation drawing.
Dimensions in inches and (mm).

Drive shaft

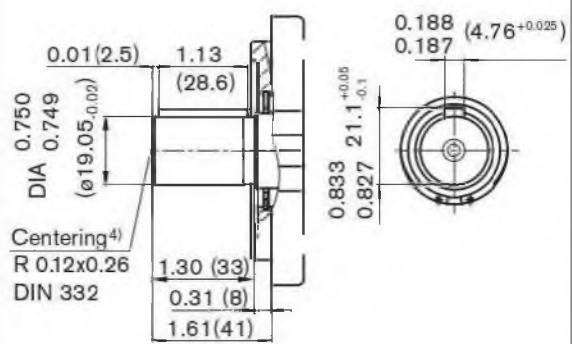
S Splined shaft 3/4 in
11T 16/32DP¹⁾ (SAE J744)



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



K Parallel shaft key



Ports

Designation	Port for	Standard	Size ³⁾	Maximum pressure State [psi (bar)] ⁵⁾	State
B	Service line	ISO 11926	1 1/16-12UNF-2B; 0.79 (20) deep	4600 (315)	O
S	Suction line	ISO 11926	1 1/16-12UNF-2B; 0.79 (20) deep	75 (5)	O
L	Case drain fluid	ISO 11926 ⁶⁾	9/16-18UNF-2B; 0.47 (12) deep	30 (2)	O ⁷⁾
L ₁	Case drain fluid	ISO 11926 ⁶⁾	9/16-18UNF-2B; 0.47 (12) deep	30 (2)	X ⁷⁾
X	Pilot pressure	ISO 11926 ⁵⁾	7/16-20UNF-2B; 0.45 (11.5) deep	4600 (315)	O

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

2) Thread according to ASME B1.1

3) For the maximum tightening torques the general instructions on FINAL PAGE must be observed.

4) Coupling axially secured, e.g. with a clamp coupling or radially mounted clamping screw

5) Depending on the application, momentary pressure spikes can occur. Consider this when selecting measuring equipment and fittings.

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

7) Depending on the installation position, L or L₁ must be connected

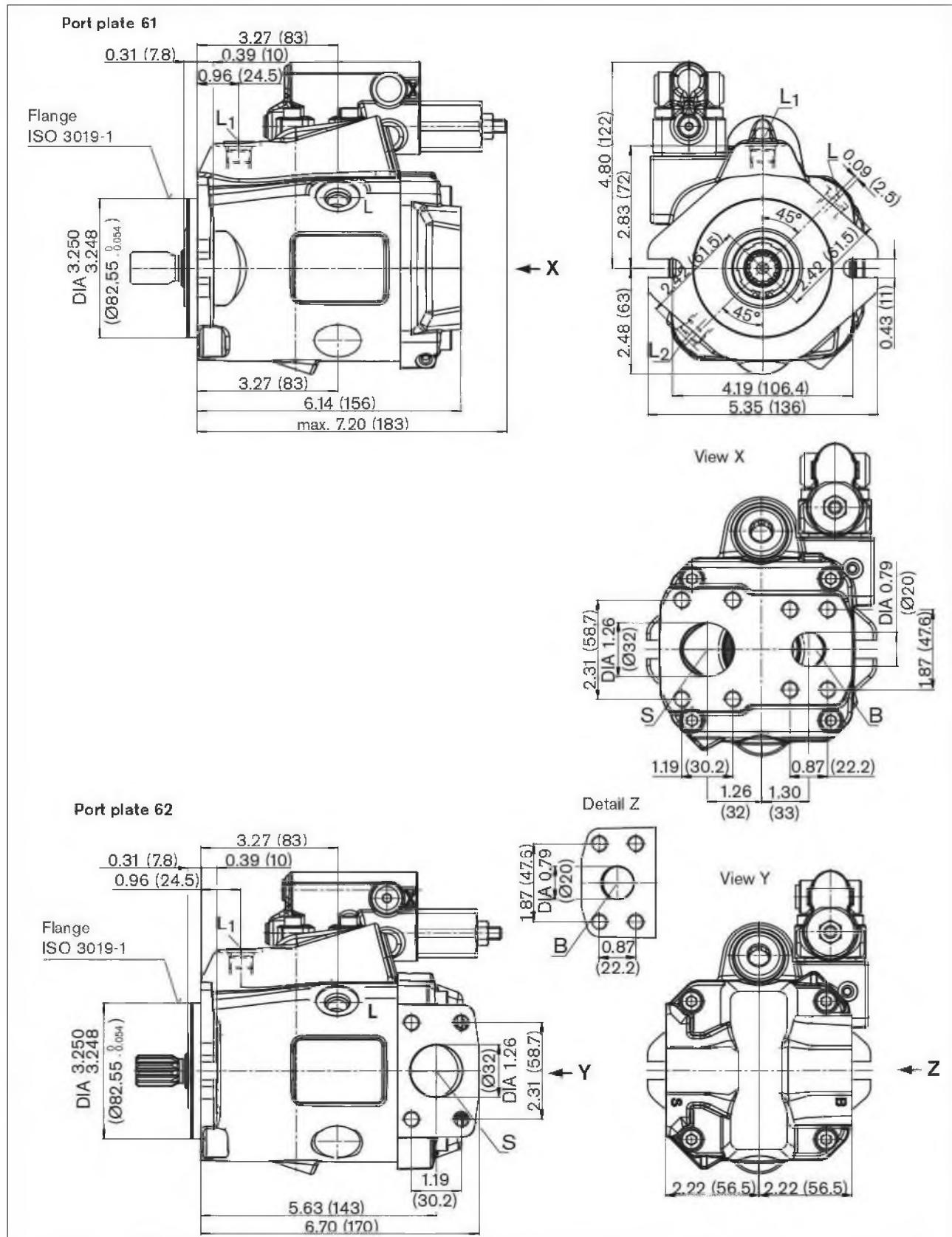
O = Must be connected (plugged on delivery)

X = Plugged (in normal operation)

Dimensions, size 18¹⁾

DR - Hydraulic pressure controller
Clockwise rotation, series 53

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

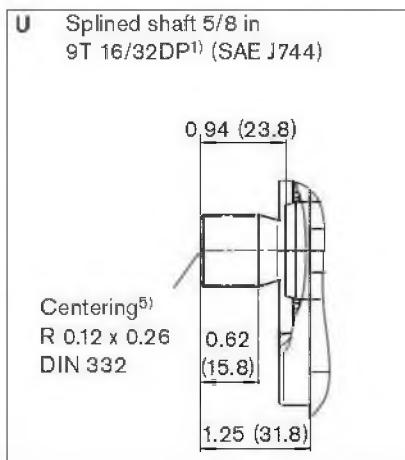
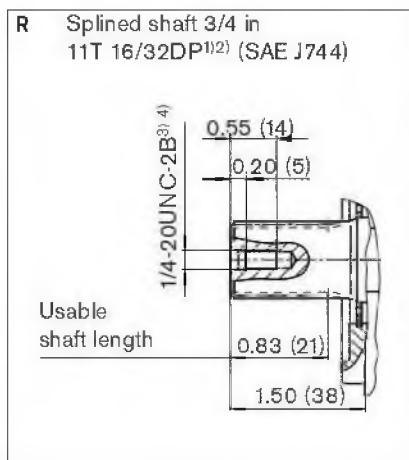
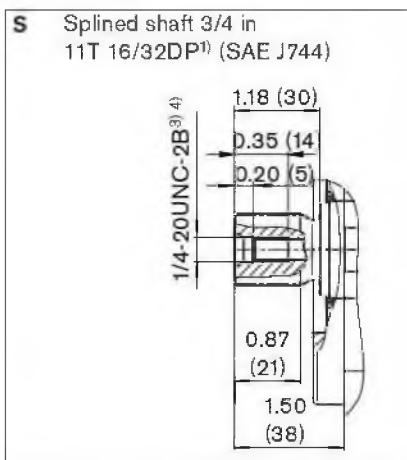


¹⁾ Dimensions of service line ports turned through 180° for counter-clockwise rotation
For details of connection options and drive shafts.

Dimensions, size 18

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

Drive shaft



Ports

Designation	Port for	Standard	Size ⁴⁾	Maximum pressure [psi (bar)] ⁶⁾	State
B	Service line, fixing thread	SAE J518 ASME B1.1	3/4 in 3/8-16UNC-2B; 0.75 (19) deep	4600 (315)	O
S	Suction line, fixing thread	SAE J518 ASME B1.1	1 1/4 in 7/16-14UNC-2B; 0.79 (20) deep	75 (5)	O
L	Case drain fluid	ISO 11926 ⁷⁾	3/4-16UNF-2B; 0.47 (12) deep	30 (2)	O ⁸⁾
L ₁ , L ₂	Case drain fluid	ISO 11926 ⁷⁾	3/4-16UNF-2B; 0.47 (12) deep	30 (2)	X ⁸⁾
X	Pilot pressure	ISO 11926 ⁷⁾	7/16-20UNF-2A; 0.45 (11.5) deep	4600 (315)	O

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 FINAL PAGE must be observed.

5) Coupling axially secured, e.g. with a clamp coupling or radially mounted clamping screw

6) Depending on the application, momentary pressure spikes can occur. Keep this in mind when selecting measuring equipment and fittings

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

8) Depending on the installation position, L, L₁ or L₂ must be connected

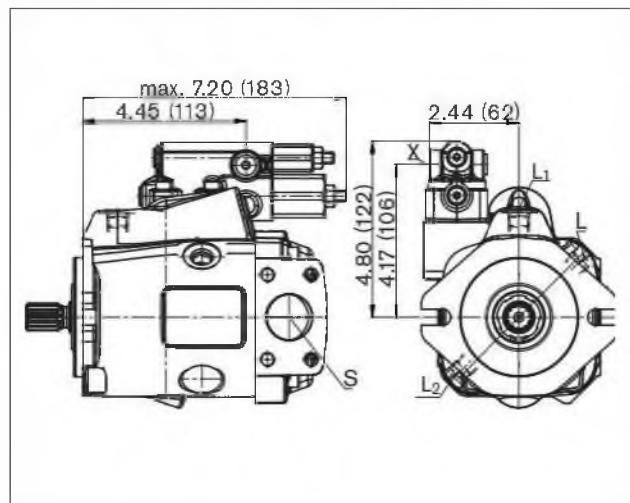
O = Must be connected (plugged on delivery)

X = Plugged (in normal operation)

Dimensions, size 18

DRG

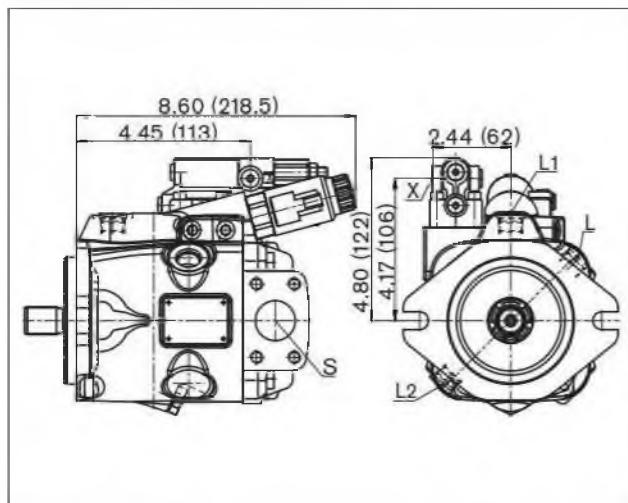
Pressure controller, remote controlled, **series 53**



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

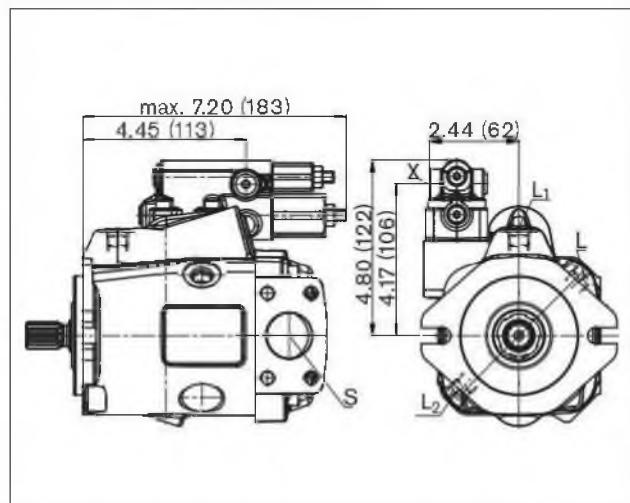
EP.D. / EKD.

Electro-proportional control, **series 53**



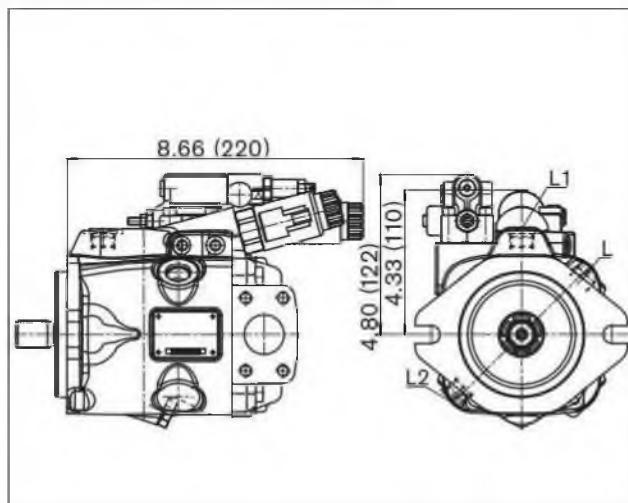
DRF/DRS

Pressure and flow control, **series 53**



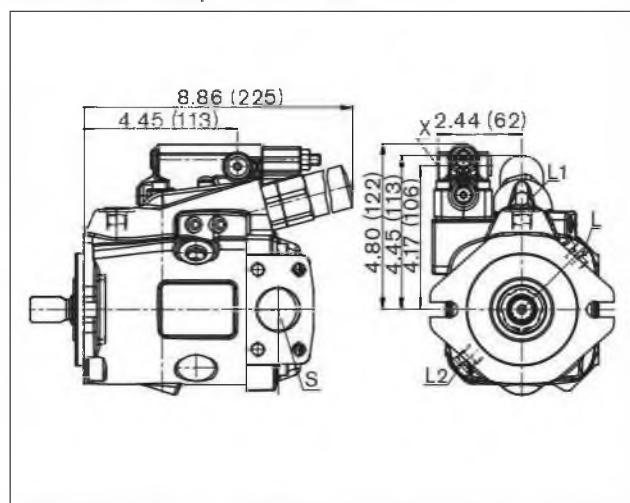
EP.ED / EK.ED

Electro-proportional control, **series 53**



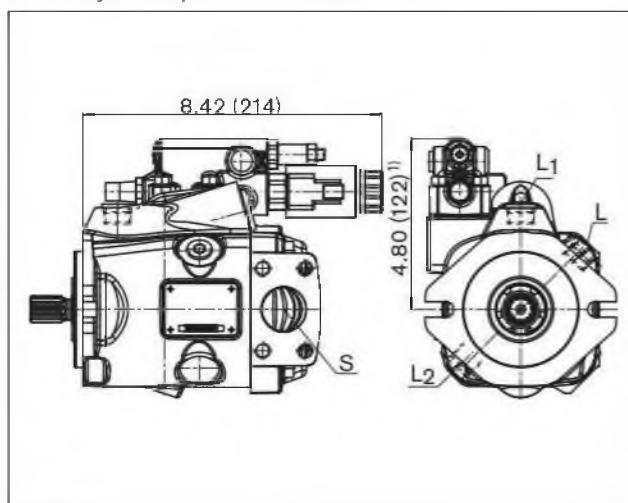
L.A.D.

Pressure, flow and power control, **series 53**



ED7. / ER7.

Electro-hydraulic pressure control, **series 53**

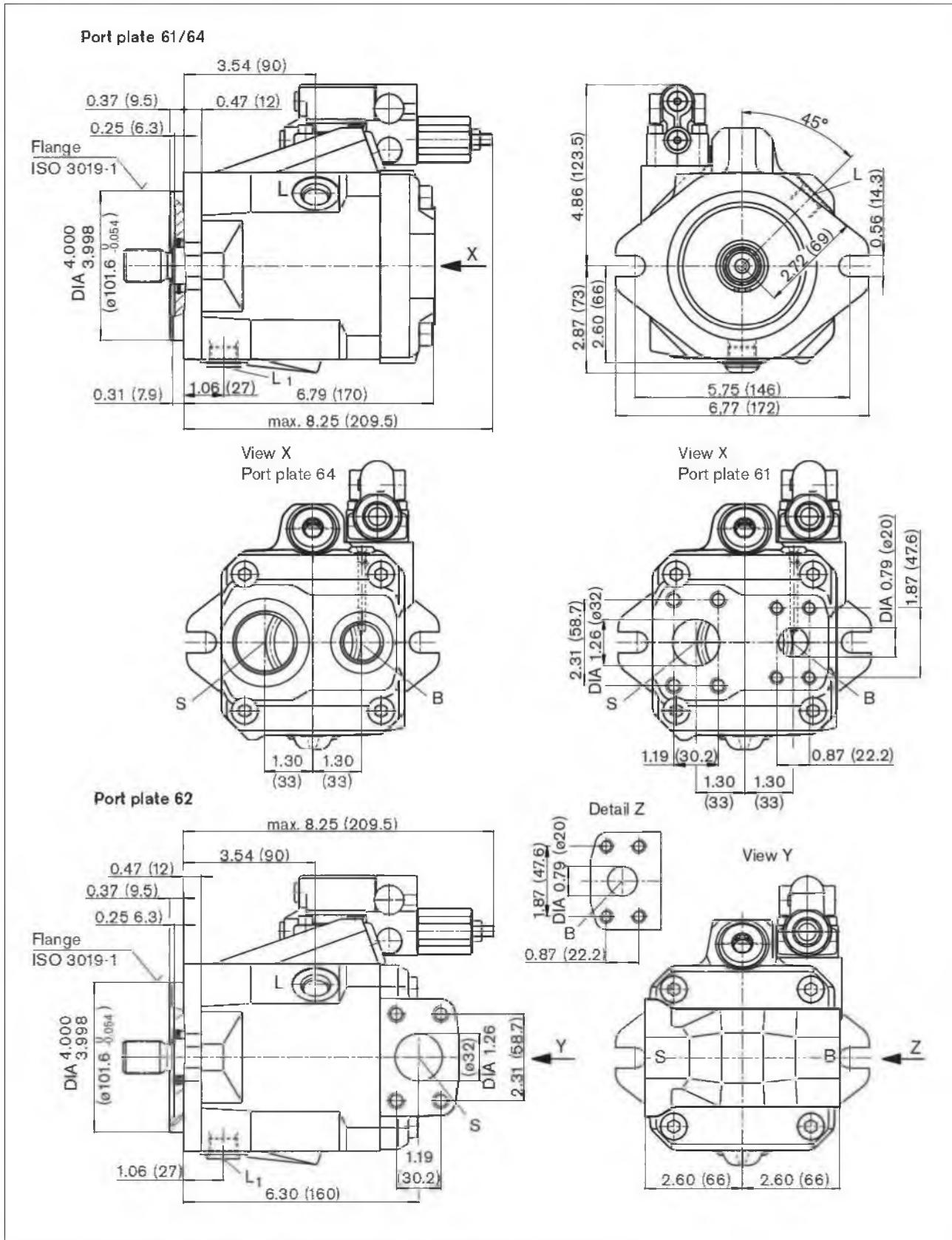


¹⁾ ER7.: 6.18 inches (157 mm) if using an intermediate plate pressure controller.

Dimensions, size 28¹⁾²⁾

DR – Hydraulic pressure controller
Clockwise rotation.

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



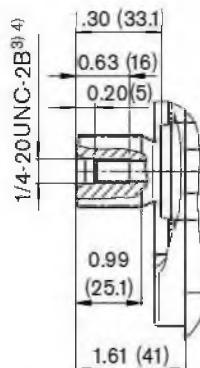
¹⁾ Dimensions of service line ports turned through 180° for counter-clockwise rotation

Dimensions, size 28

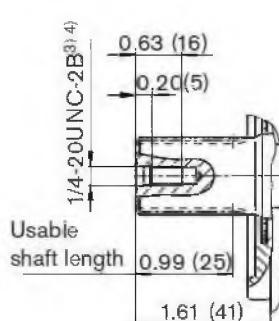
Before finalizing your design request a certified installation drawing.
Dimensions in inches and (mm).

Drive shaft

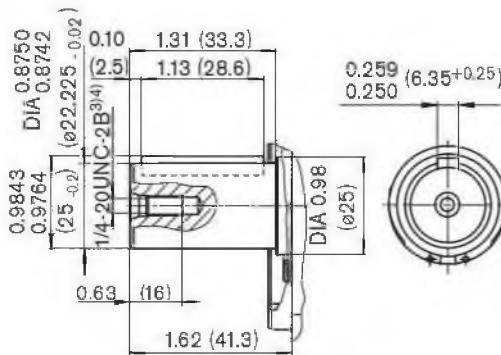
S Splined shaft 7/8 in
13T 16/32DP¹⁾ (SAE J744)



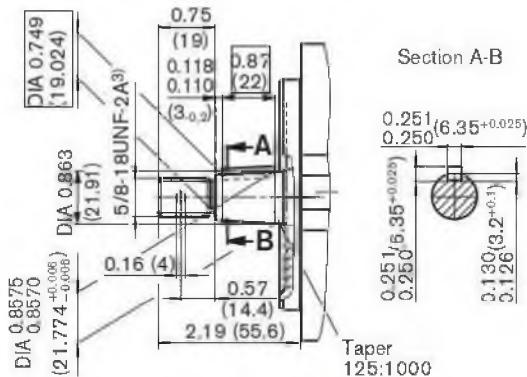
R Splined shaft 7/8 in
13T 16/32DP¹⁽²⁾ (SAE J744)



K⁵⁾ Parallel keyed shaft



C⁵⁾ Tapered with woodruff key
(ISO 3019-1)



Ports

Designation	Port for	Standard	Size ⁴⁾	Maximum pressure [psi (bar)] ⁶⁾	State
B: Port plate 61/62	Service line, fixing thread	SAE J518 ASME B1.1	3/4 in 3/8-16UNC-2B; 0.75 (19) deep	4600 (315)	O
B: Port plate 64	threaded	ISO 11926 ⁷⁾	1 1/16-12UNF-2B; 0.79 (20) deep	4600 (315)	O
S: Port plate 61/62	Suction line, fixing thread	SAE J518 ASME B1.1	1 1/4 in 7/16-14UNC-2B; 0.79 (20) deep	75 (5)	O
S: Port plate 64	threaded	ISO 11926 ⁷⁾	1 5/8-12UN-2B; 0.79 (20) deep	75 (5)	O
L	Case drain fluid	ISO 11926 ⁷⁾	3/4-16UNF-2B; 0.47 (12) deep	30 (2)	O ⁹⁾
L ₁ , L ₂ ⁸⁾	Case drain fluid	ISO 11926 ⁷⁾	3/4-16UNF-2B; 0.47 (12) deep	30 (2)	X ⁹⁾
X	Control pressure	ISO 11926 ⁷⁾	7/16-20UNF-2B; 0.45 (11.5) deep	4600 (315)	O

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 FINAL PAGE must be observed.

5) Only series 52

6) Depending on the appl., momentary press. spikes can occur. Consider this when selecting measuring equipment and fittings.

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

8) Only series 53

9) Depending on the installation position, L, L₁ or L₂ must be connected

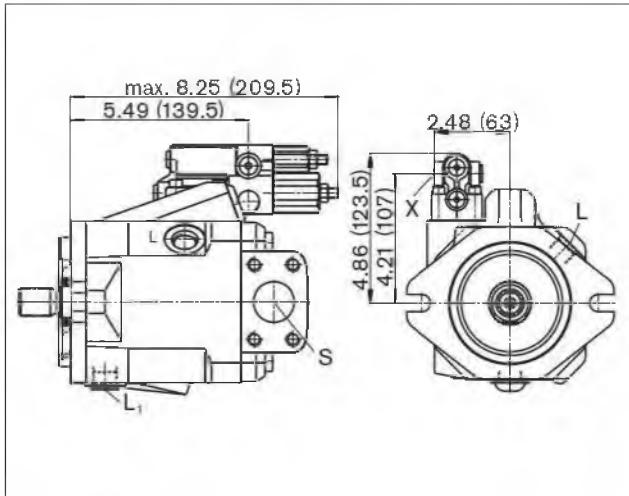
O = Must be connected (plugged on delivery)

X = Plugged (in normal operation)

Dimensions, size 28

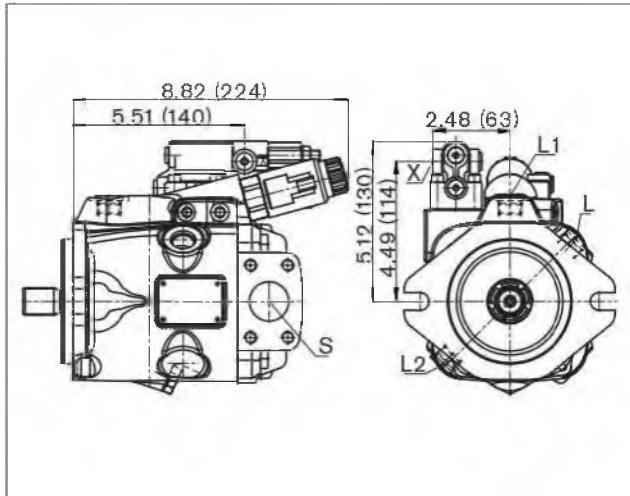
DRG

Pressure controller, remote controlled



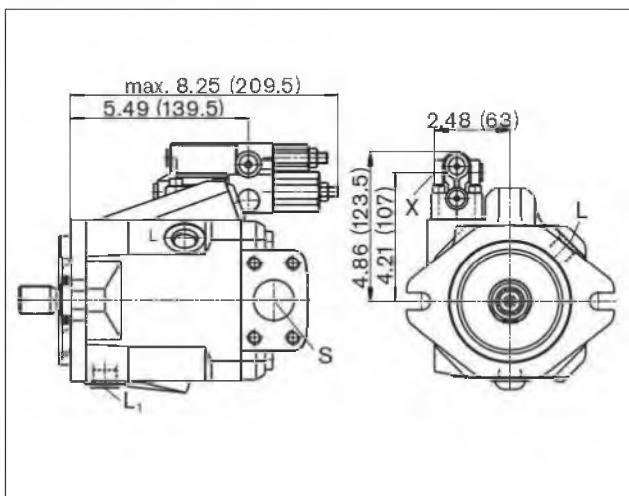
EP.D. / EK.D.

Electro-proportional control



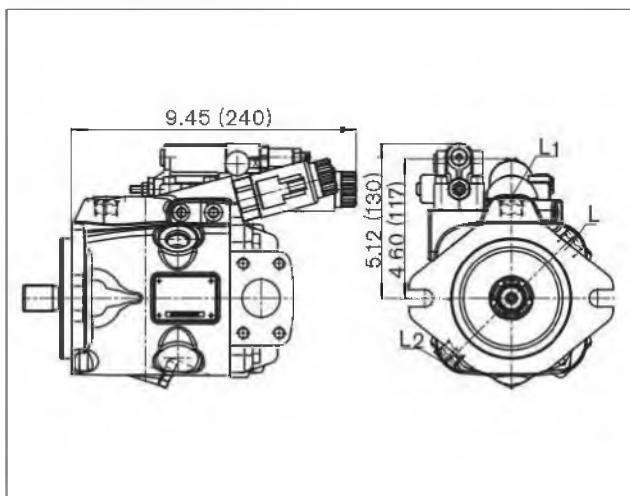
DFR / DFR1

Pressure and flow control



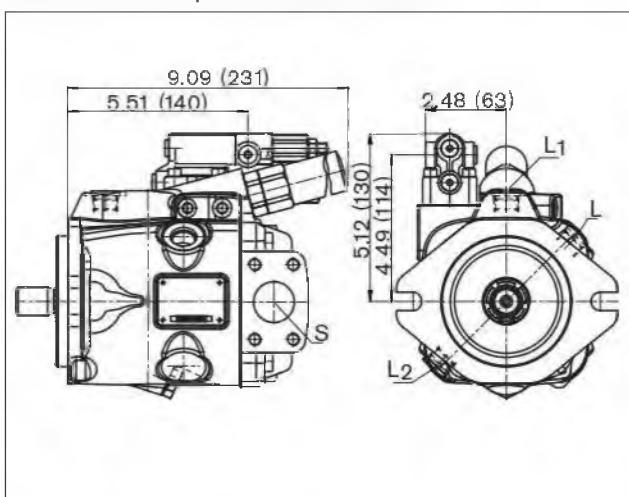
EP.ED / EK.ED

Electro-proportional control.



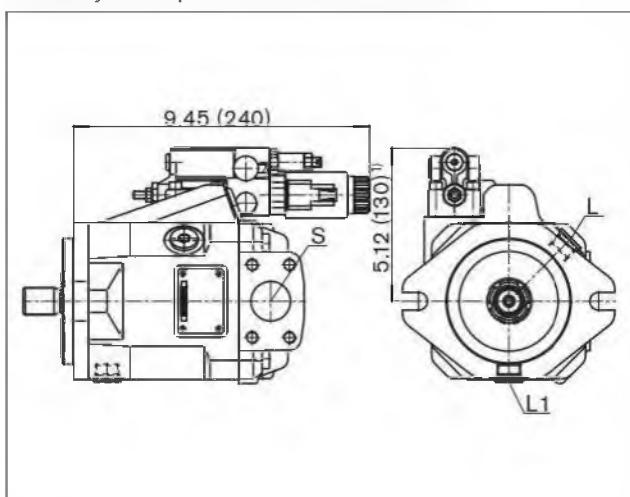
L.A.D.

Pressure, flow and power control. **series 53**



ED7. / ER7.

Electro-hydraulic pressure control. **series 52**



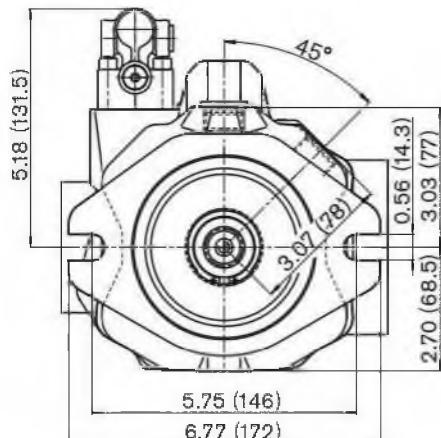
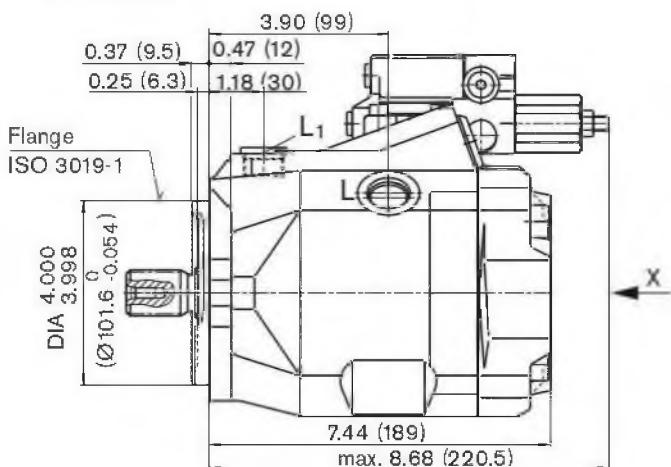
¹⁾ ER7.: 6.26 inches (159 mm) if using an intermediate plate pressure controller.

Dimensions, size 45¹⁾

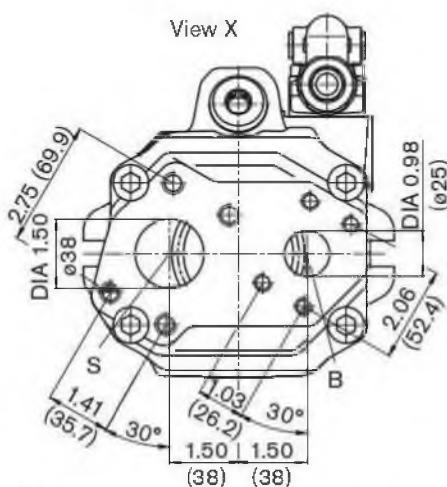
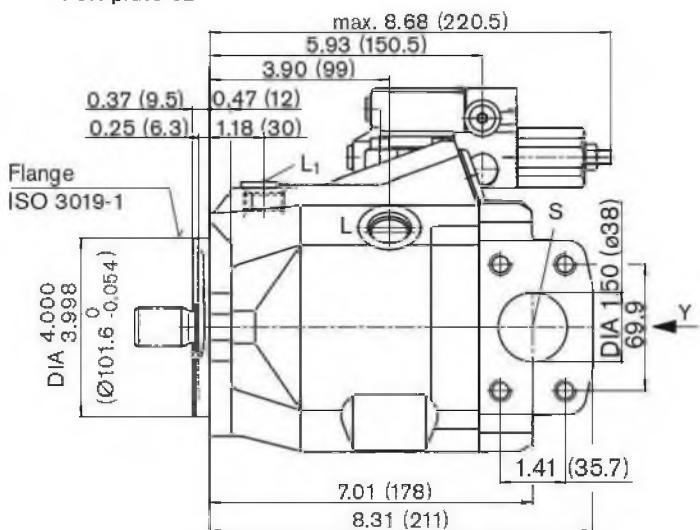
DR - Hydraulic pressure controller
Clockwise rotation, series 52

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

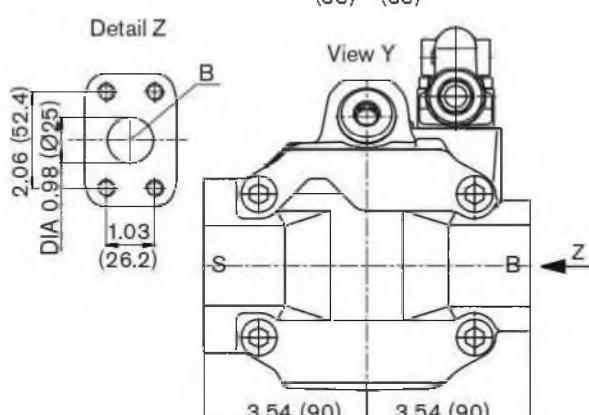
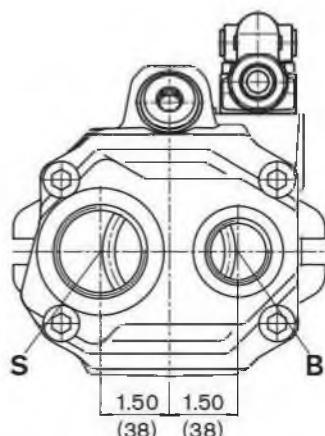
Port plate 61



Port plate 62



Port plate 64



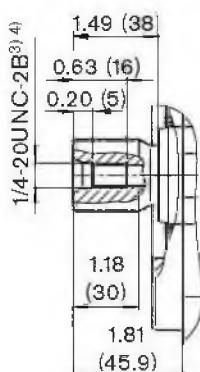
Dimensions of service line ports turned through 180° for counter-clockwise rotation

¹⁾ Primary dimensions for pump apply for series 52 and 53

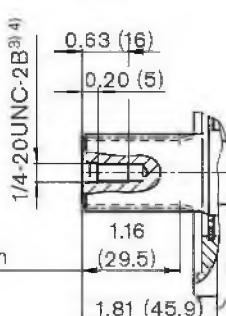
Dimensions, size 45

Drive shaft

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

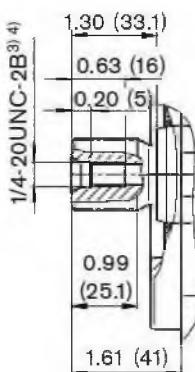


R Splined shaft 1 in
15T 16/32DP^{1,2)} (SAE J744)

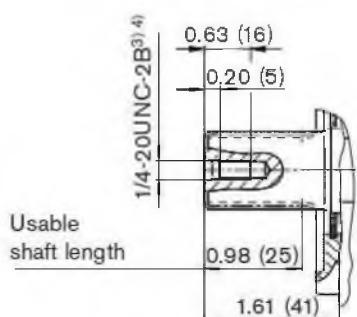


Before finalizing your design request a certified installation drawing.
Dimensions in inches and (mm).

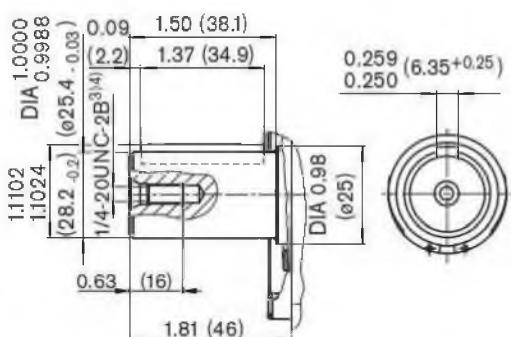
U Splined shaft 7/8 in
13T 16/32DP¹⁾ (SAE J744)



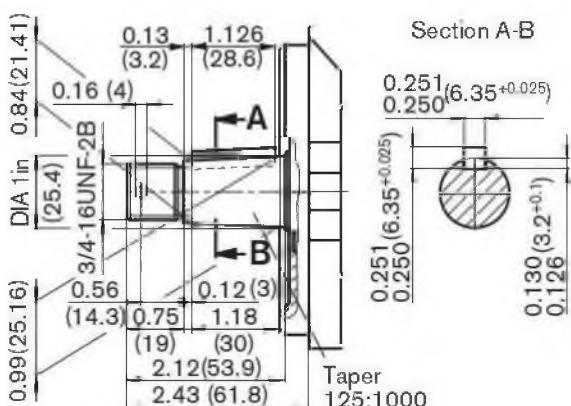
W Splined shaft 7/8 in
13T 16/32DP^{1,2)} (SAE J744)



K⁵⁾ Parallel keyed shaft



C⁵⁾ Tapered with woodruff key
(ISO 3019-1)



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 FINAL PAGE must be observed.

5) Only series 52

Dimensions, size 45

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

Ports

Designation	Port for	Standard	Size ¹⁾	Maximum pressure [psi (bar)] ²⁾	State
B Port plate 61/62	Service line, fixing thread	SAE J518 ASME B1.1	1 in 3/8-16UNC-2B; 0.71 (18) deep	4600 (315)	O
B; Port plate 64	Fixing thread	ISO 11926	1 5/16-12UN-2B; 0.79 (20) deep	4600 (315)	O
S	Suction line, fixing thread	SAE J518 ASME B1.1	1 1/2 in 1/2-13UNC-2B; 0.87 (22) deep	75 (5)	O
S; Port plate 64	Fixing thread	ISO 11926	1 7/8-12UN-2B; 0.79 (20) deep	75 (5)	O
L	Case drain fluid	ISO 11926 ³⁾	7/8-14UNF-2B; 13 deep	30 (2)	O ⁵⁾
L ₁ , L ₂ ⁴⁾	Case drain fluid	ISO 11926 ³⁾	7/8-14UNF-2B; 13 deep	30 (2)	X ⁵⁾
X	Control pressure	ISO 11926 ³⁾	7/16-20UNF-2A; 11.5 deep	4600 (315)	O

1) For the maximum tightening torques the general instructions on FINAL PAGE must be observed.

2) Depending on the application, momentary pressure spikes can occur. Consider this when selecting measuring equipment and fittings.

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

4) Only for series 53

5) Depending on the installation position, L, L₁ or L₂ must be connected

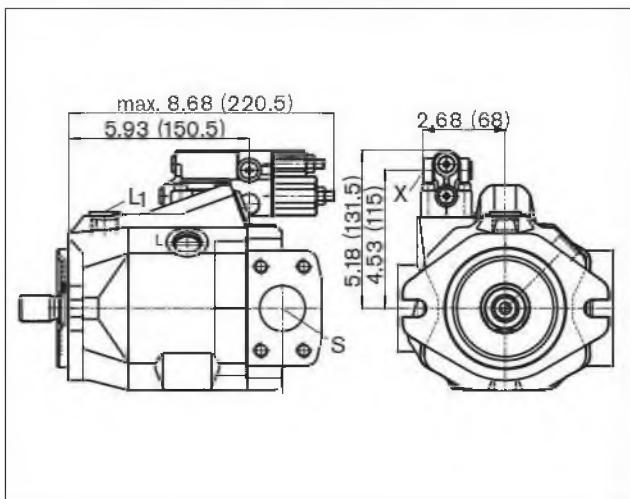
O = Must be connected (plugged on delivery)

X = Plugged (in normal operation)

Dimensions, size 45

DRG

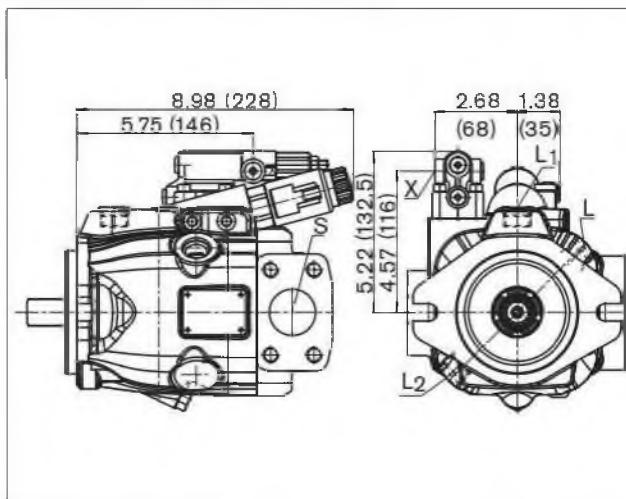
Pressure controller, remote controlled, series 52



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

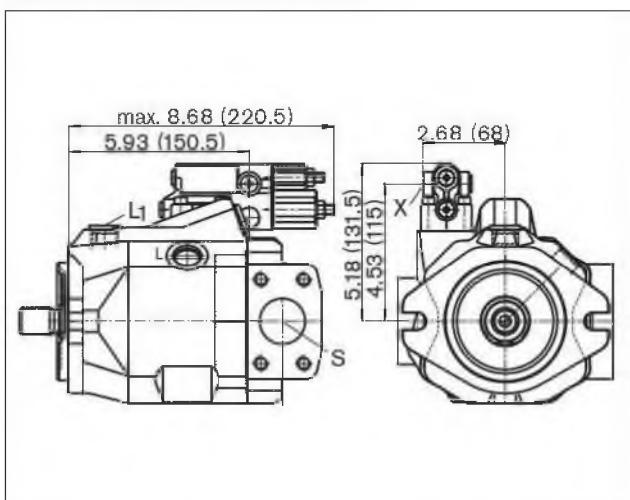
EP.D. / EKD.D.

Electro-proportional control, series 53



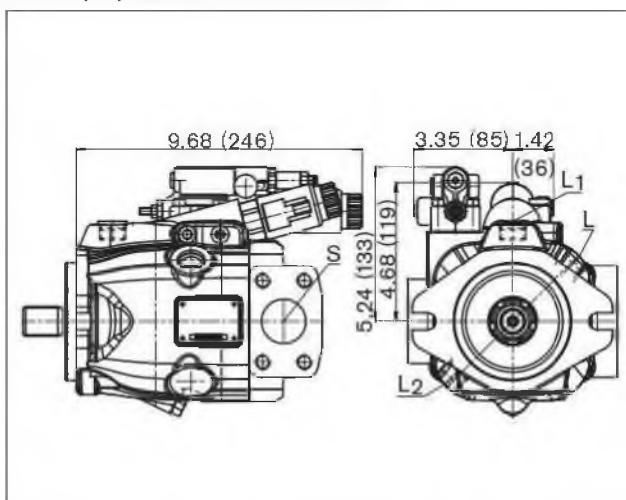
DFR / DFR1

Pressure and flow control, series 52



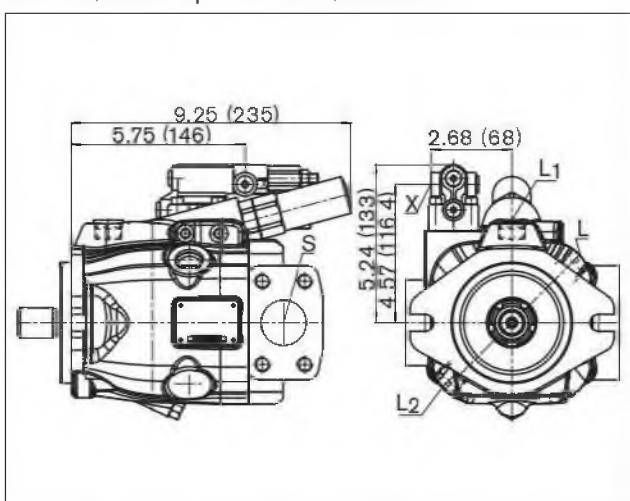
EP.ED / EK.ED

Electro-proportional control, series 53



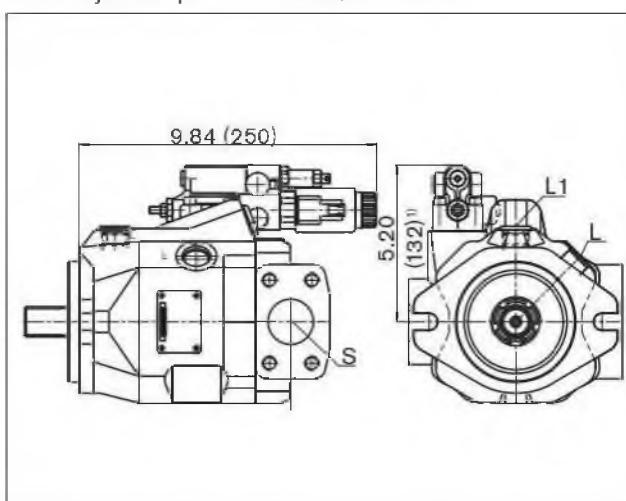
L.A.D.

Pressure, flow and power control, series 53



ED7. / ER7.

Electro-hydraulic pressure control, series 52



¹⁾ ER7.: 6.57 inches (167 mm) if using an intermediate plate pressure controller.

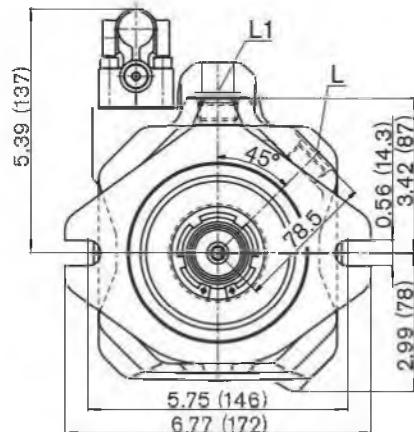
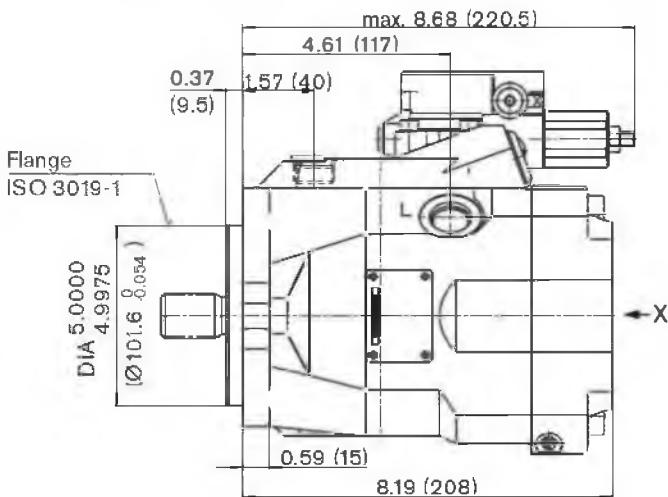
Dimensions, size 60

DR - Hydraulic pressure controller

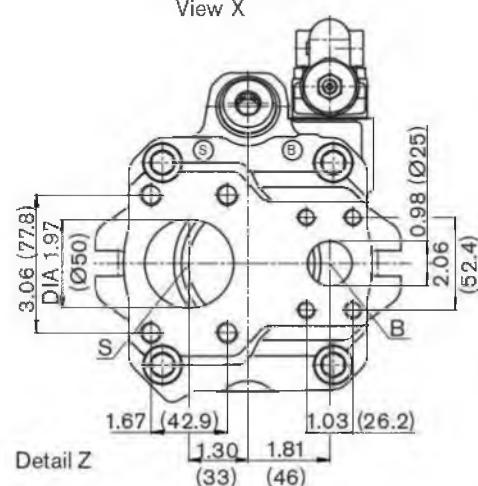
Mounting flange C, clockwise rotation, series 52

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

Port plate 61

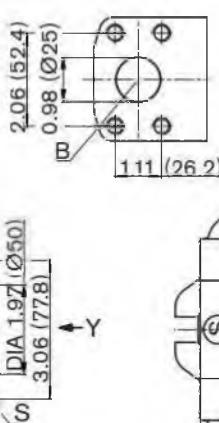
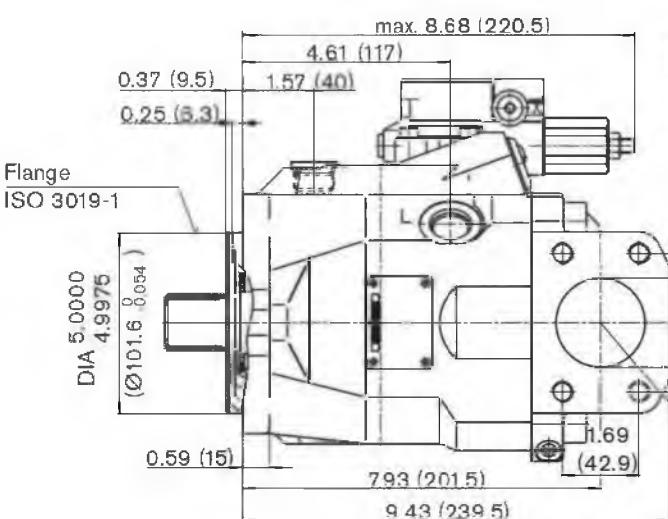


View X

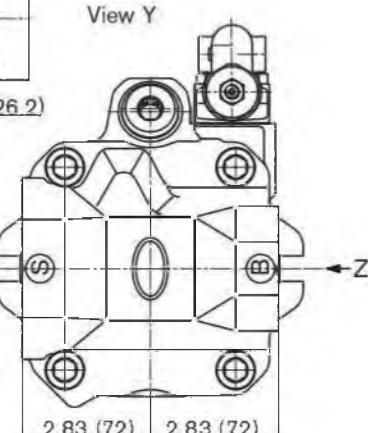


Detail Z

Port plate 62



View Y



¹⁾ Dimensions of service line ports turned through 180° for counter-clockwise rotation

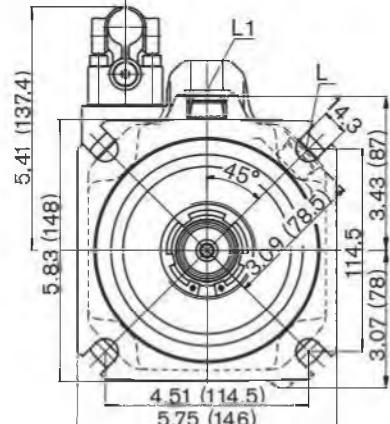
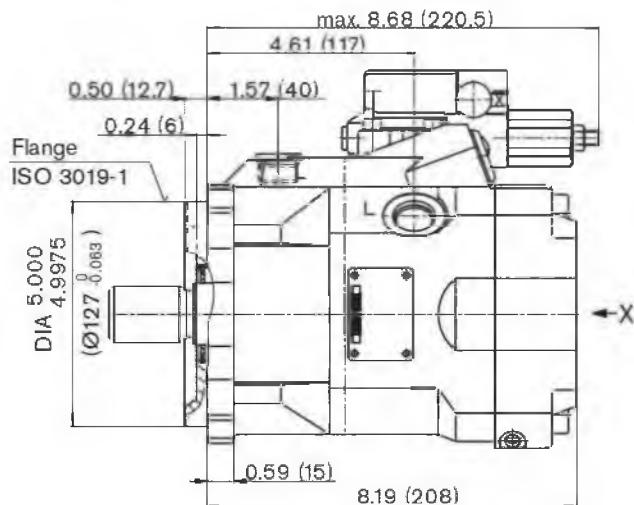
Dimensions, size 60

DR - Hydraulic pressure controller

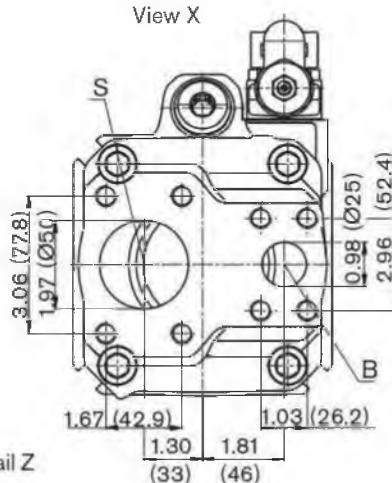
Mounting flange D, clockwise rotation, series 52

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

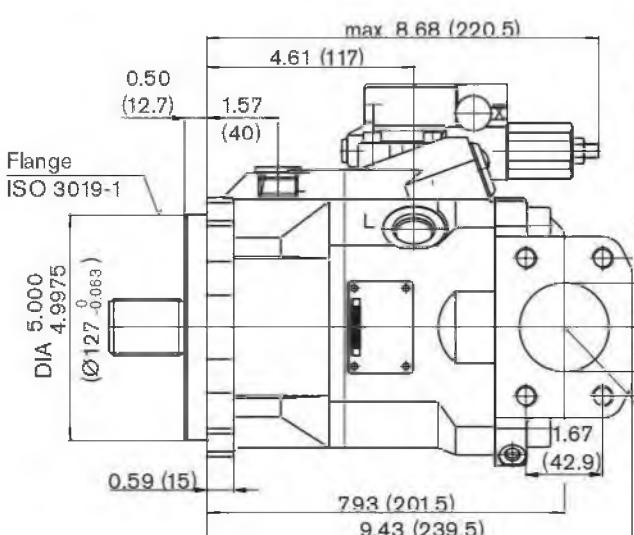
Port plate 61



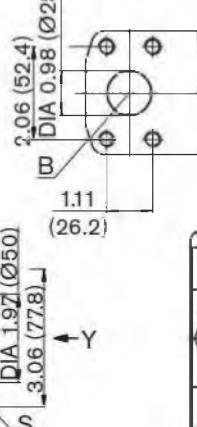
View X



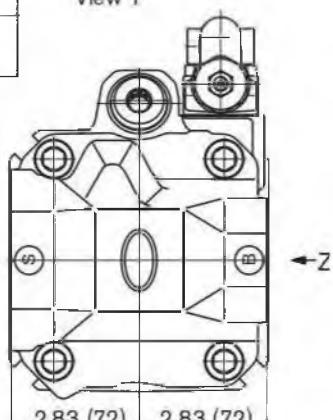
Port plate 62



Detail Z



View Y



¹⁾ Dimensions of service line ports turned through 180° for counter-clockwise rotation

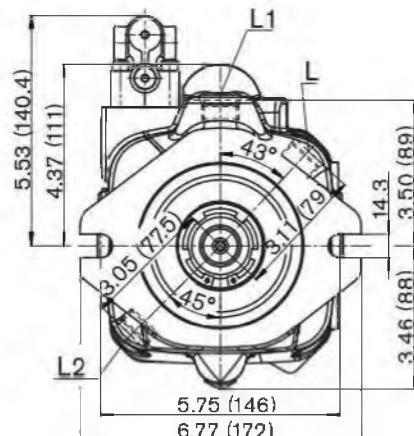
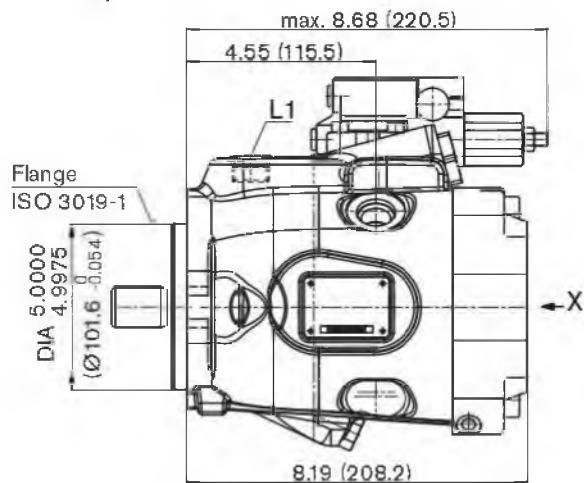
Dimensions, size 63¹⁾

DR - Hydraulic pressure controller

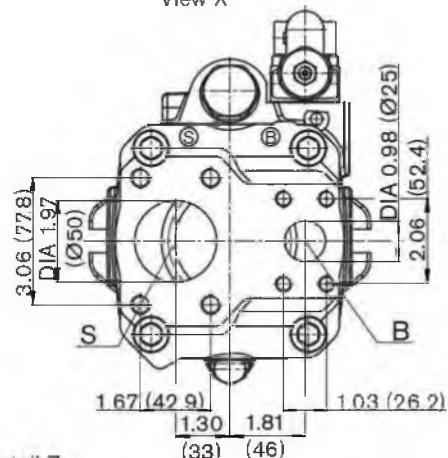
Mounting flange C, clockwise rotation, series 53

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

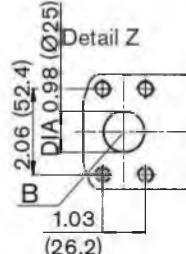
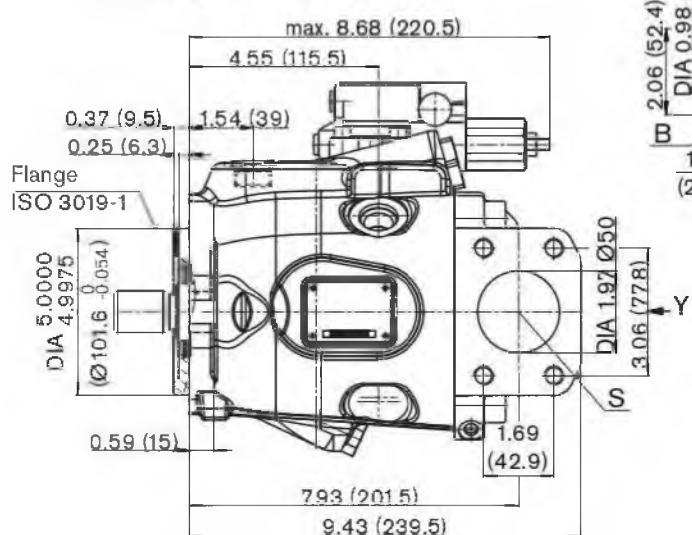
Port plate 61



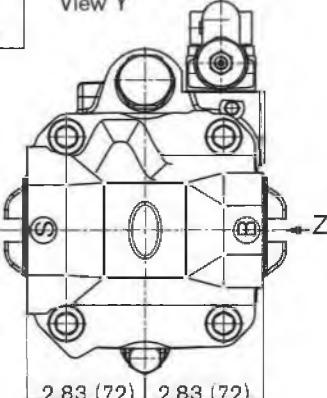
View X



Port plate 62



View Y



¹⁾ Dimensions of service line ports turned through 180° for counter-clockwise rotation

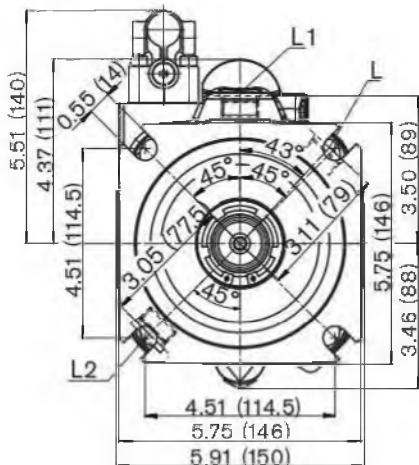
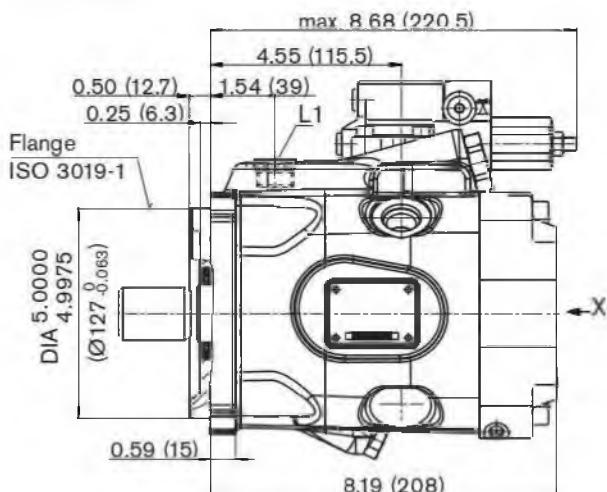
Dimensions, size 63¹⁾

DR - Hydraulic pressure controller

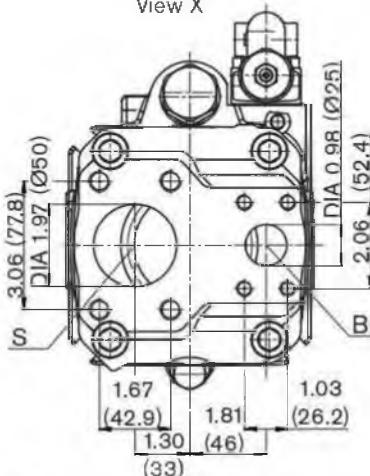
Mounting flange D, clockwise rotation, series 53

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

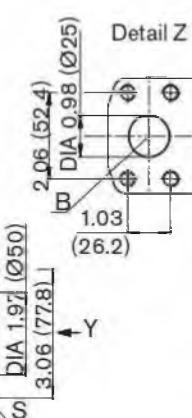
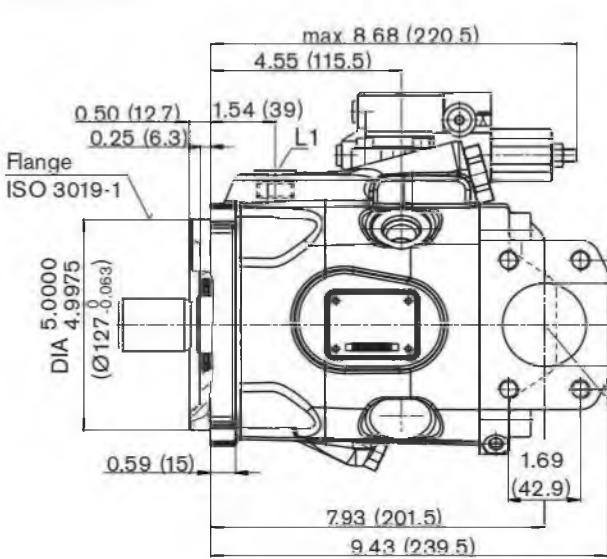
Port plate 61



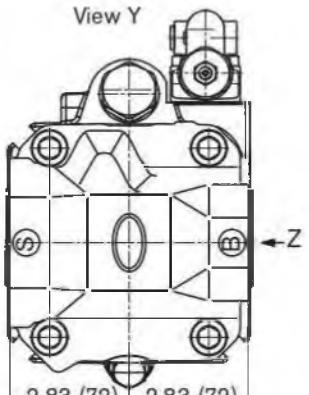
View X



Port plate 62



View Y

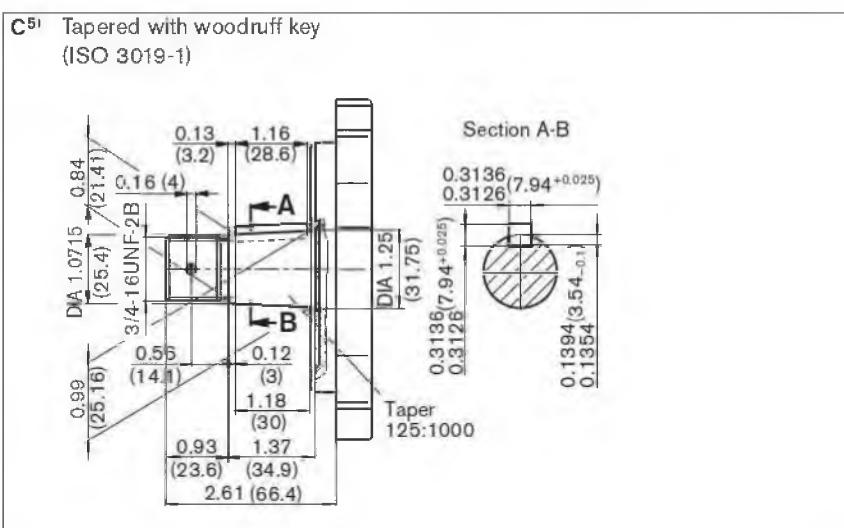
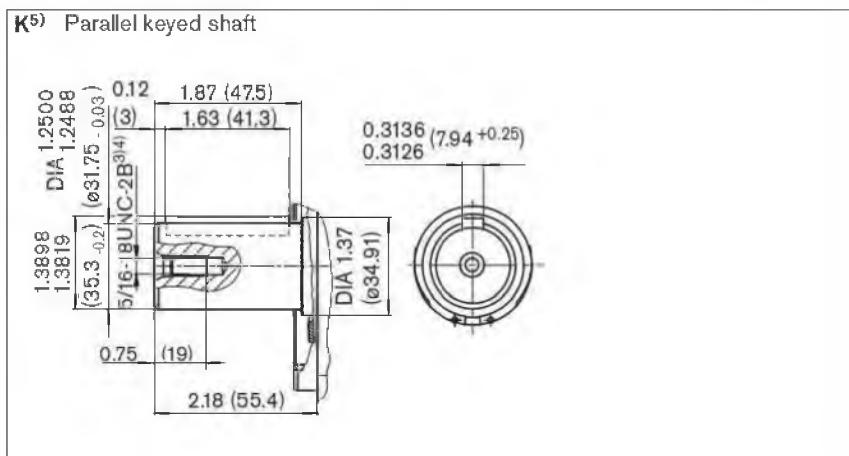
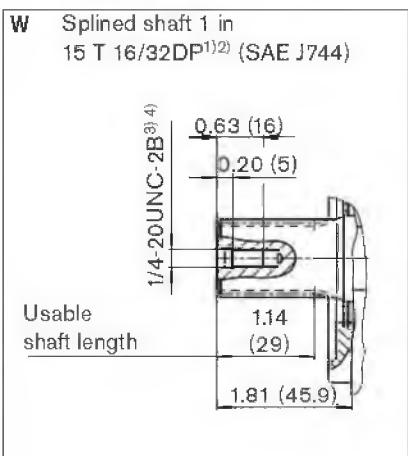
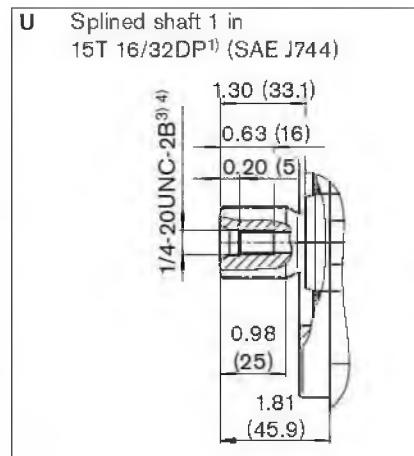
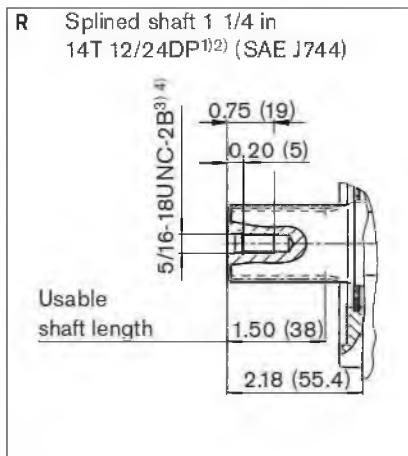
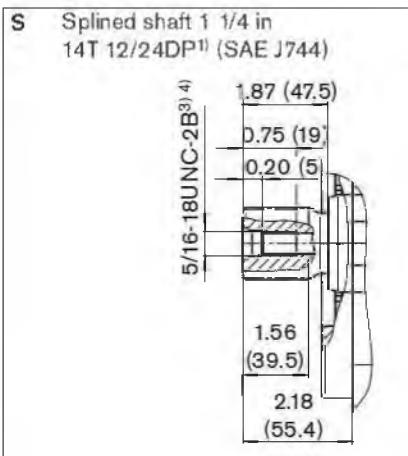


¹⁾ Dimensions of service line ports turned through 180° for counter-clockwise rotation

Dimensions, size 60 / 63

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

Drive shaft



- 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 FINAL PAGE must be observed.
- 5) Only series 52

Dimensions, size 60 / 63

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

Ports

Designation	Port for	Standard	Size ¹⁾	Maximum pressure [psi (bar)] ²⁾	State
B	Service line, fixing thread	SAE J518 ASME B1.1	1 in 3/8-16UNC-2B; 0.71 (18) deep	4600 (315)	O
S	Suction line, fixing thread	SAE J518 ASME B1.1	2 in 1/2-13UNC-2B; 0.87 (22) deep	75 (5)	O
L	Case drain fluid	ISO 11926 ³⁾	7/8-14UNF-2B; 0.51 (13) deep	30 (2)	O ⁵⁾
L ₁ , L ₂ ⁴⁾	Case drain fluid	ISO 11926 ³⁾	7/8-14UNF-2B; 0.51 (13) deep	30 (2)	X ⁵⁾
X	Control pressure	ISO 11926 ³⁾	7/16-20UNF-2A; 0.45 (11.5) deep	4600 (315)	O

1) For the maximum tightening torques the general instructions on FINAL PAGE must be observed.

2) Depending on the application, momentary pressure spikes can occur. Consider this when selecting measuring equipment and fittings.

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

4) Only for series 53

5) Depending on the installation position, L, L₁ or L₂ must be connected

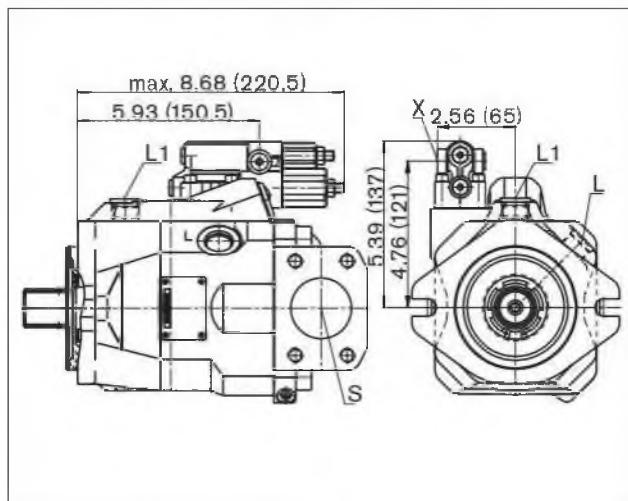
O = Must be connected (plugged on delivery)

X = Plugged (in normal operation)

Dimensions, size 60 / 63

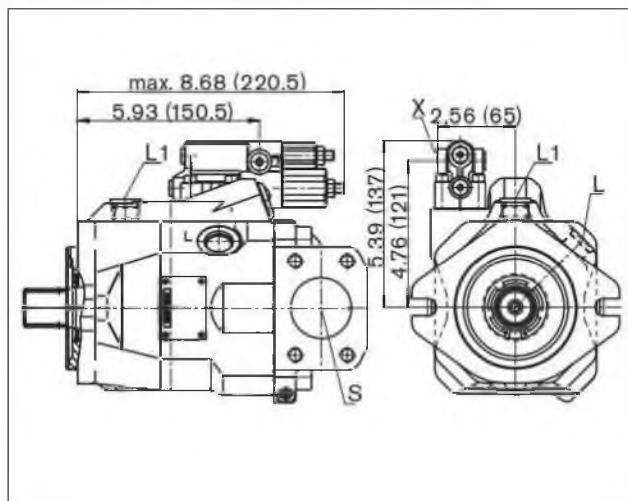
DRG

Pressure controller, remote controlled, **series 52**



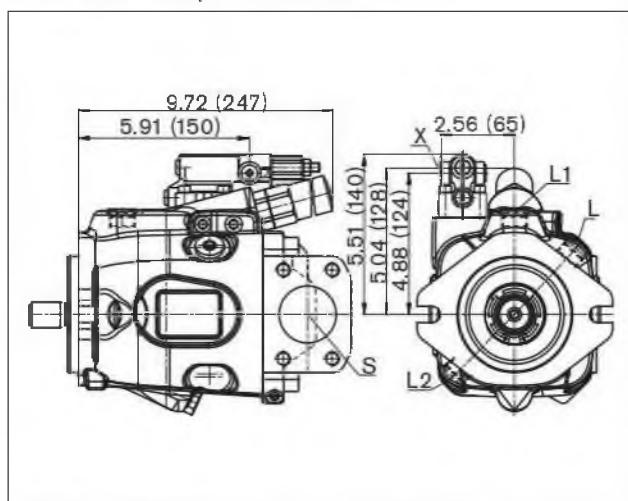
DFR / DFR1 (DRF/DRS)

Pressure and flow control, **series 52 (series 53)**



L.A.D.

Pressure, flow and power control, **series 53**

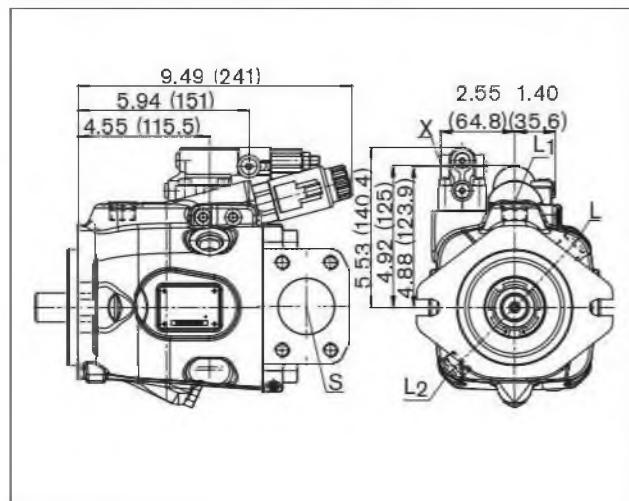


¹⁾ ER7.: 6.77 inches (172 mm) if using an intermediate plate pressure controller.

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

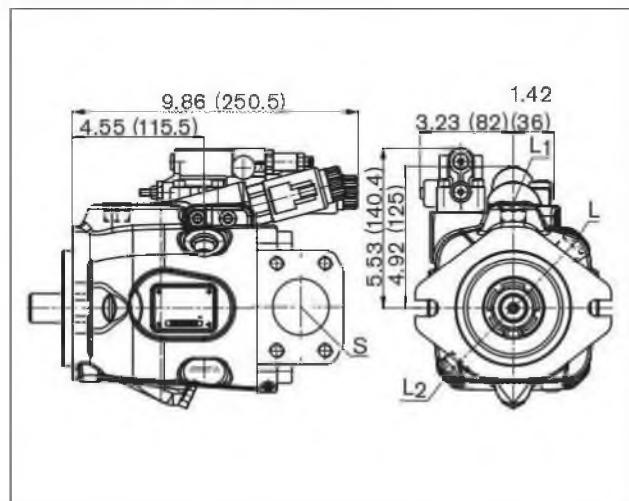
EP.D. / EK.D.

Electro-proportional control, **series 53**



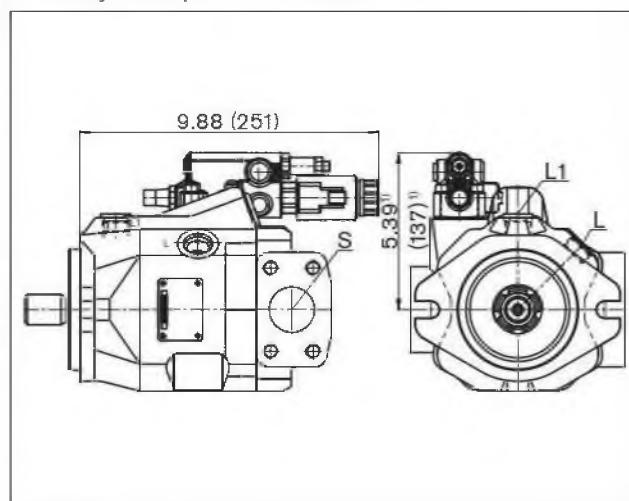
EP.ED / EK.ED

Electro-proportional control, **series 53**



ED7. / ER7.

Electro-hydraulic pressure control, **series 52**



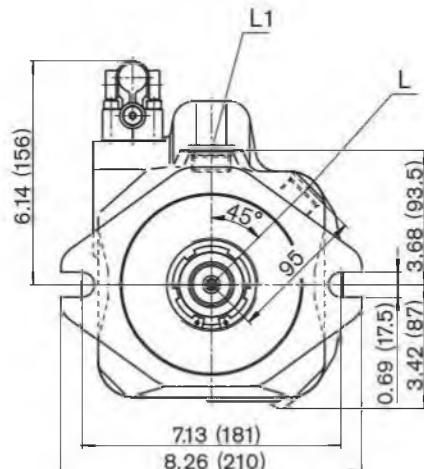
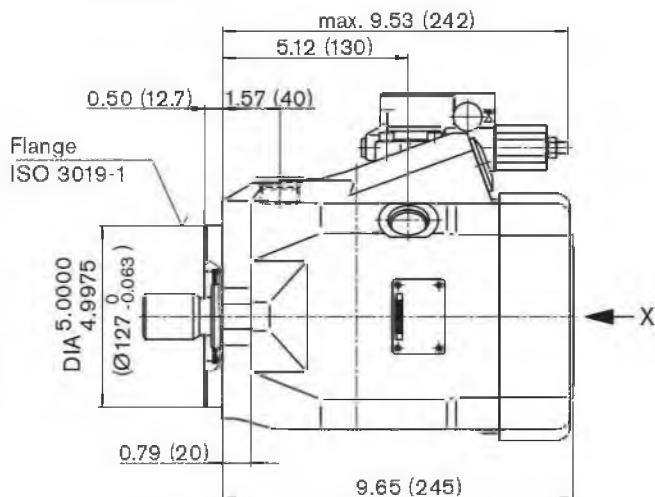
Dimensions, size 85¹⁾

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

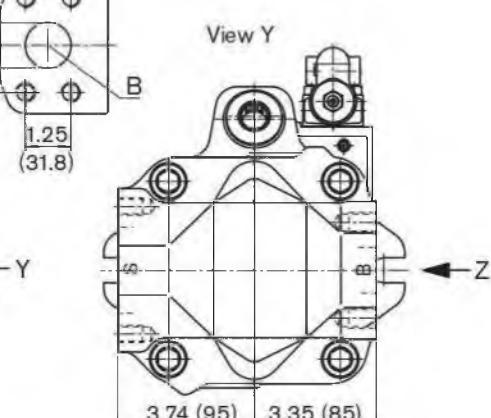
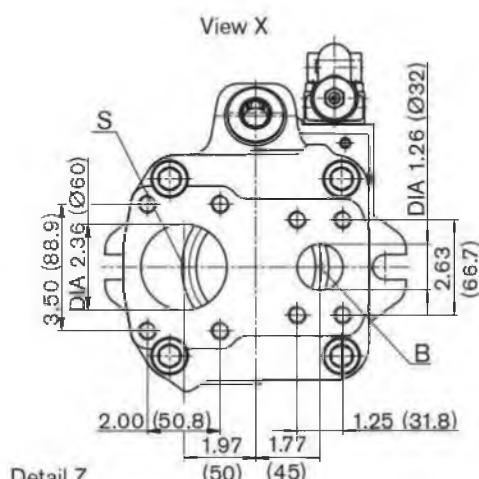
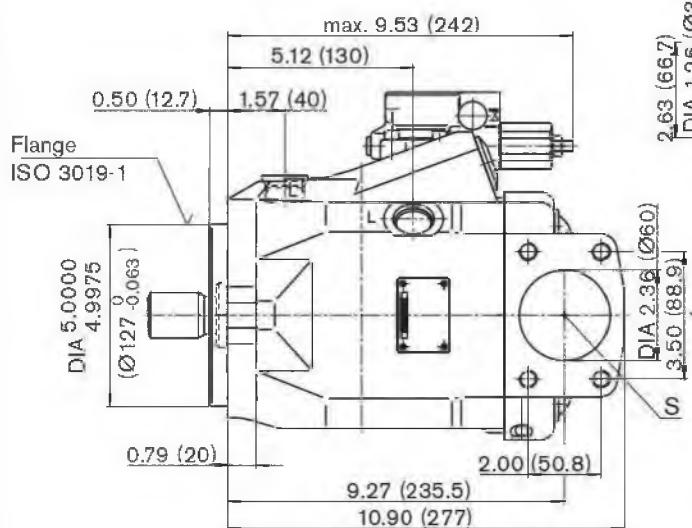
DR - Hydraulic pressure controller

Mounting flange C, clockwise rotation, series 52

Port plate 61



Port plate 62



¹⁾ Dimensions of service line ports turned through 180° for counter-clockwise rotation
For details of connection options and drive shafts.

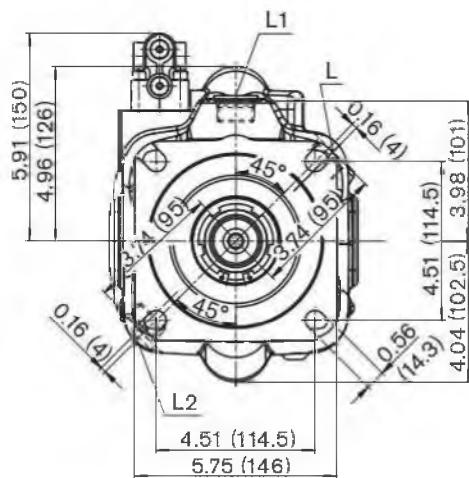
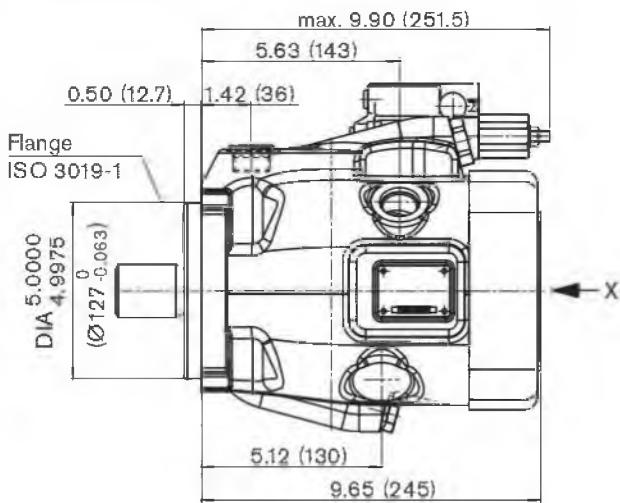
Dimensions, size 85¹⁾

DR - Hydraulic pressure controller

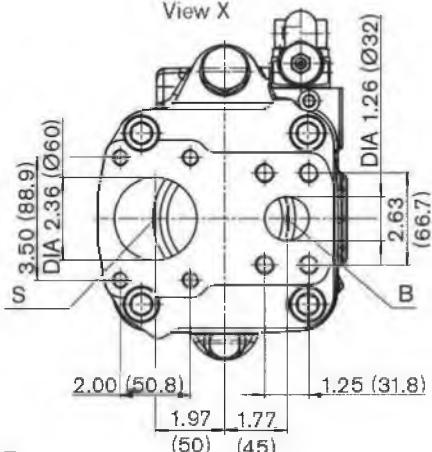
Mounting flange D, clockwise rotation, series 53

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

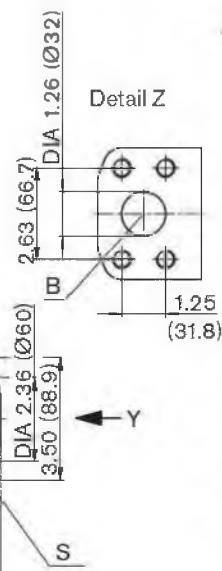
Port plate 61



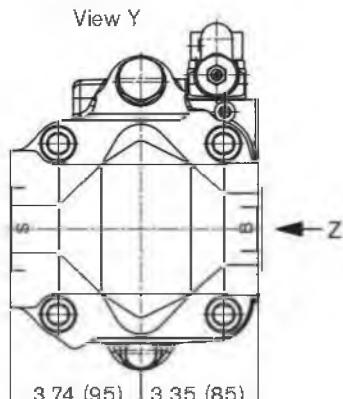
View X



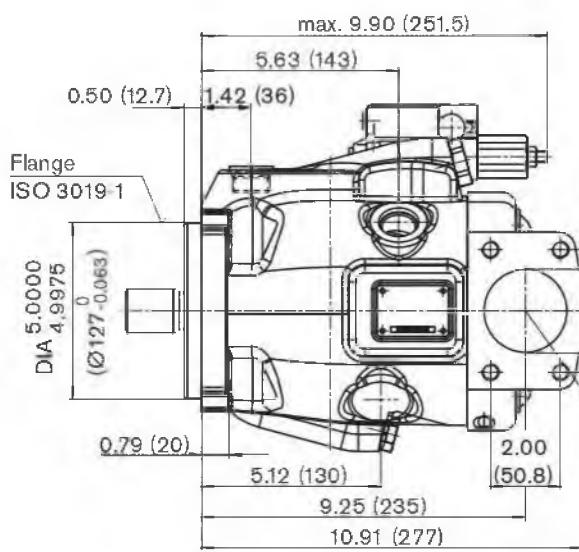
Detail Z



View Y



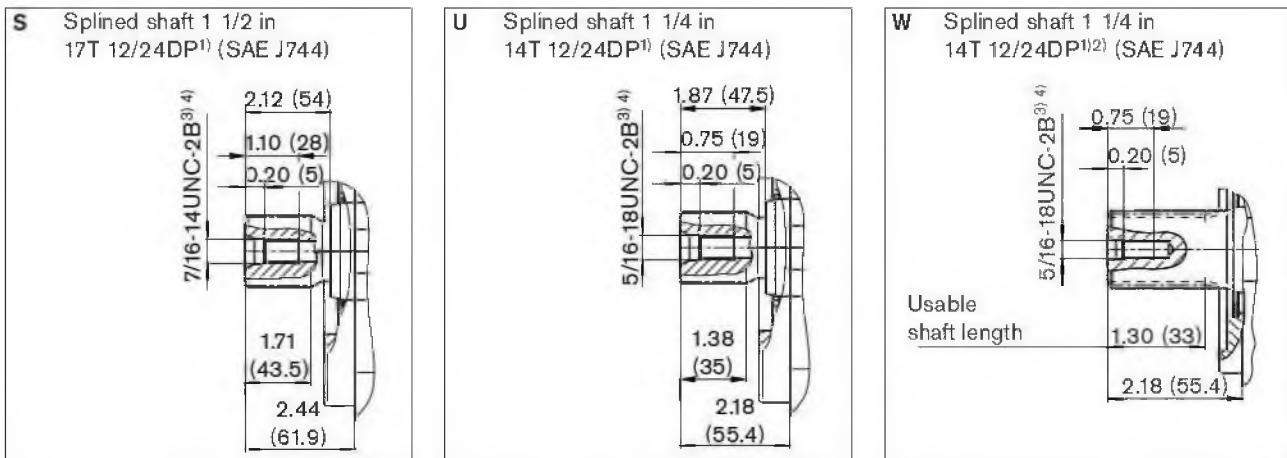
Port plate 62



¹⁾ Dimensions of service line ports turned through 180° for counter-clockwise rotation
For details of connection options and drive shafts

Dimensions, size 85

Drive shaft



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

Ports

Designation	Port for	Standard	Size ⁴⁾	Maximum pressure [psi (bar)] ⁵⁾	State
B	Service line, fixing thread	SAE J518 ASME B1.1	1 1/4 in 1/2-13UNC-2B; 0.75 (19) deep	4600 (315)	O
S	Suction line, fixing thread	SAE J518 ASME B1.1	2 1/2 in 1/2-13UNC-2B; 1.07 (27) deep	75 (5)	O
L	Case drain fluid	ISO 11926 ⁶⁾	1 1/16-12UNF-2B; 0.59 (15) deep	30 (2)	O ⁸⁾
L ₁ , L ₂ ⁷⁾	Case drain fluid	ISO 11926 ⁶⁾	1 1/16-12UNF-2B; 0.59 (15) deep	30 (2)	X ⁸⁾
X	Control pressure	ISO 11926 ⁶⁾	7/16-20UNF-2A; 0.45 (11.5) deep	4600 (315)	O

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 FINAL PAGE must be observed.

5) Depending on the application, momentary pressure spikes can occur. Consider this when selecting measuring equipment and fittings.

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

7) Only for series 53

8) Depending on the installation position, L, L₁ or L₂ must be connected

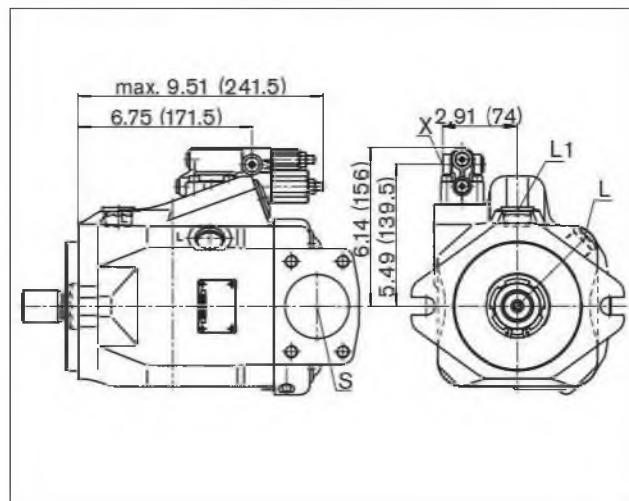
O = Must be connected (plugged on delivery)

X = Plugged (in normal operation)

Dimensions, size 85, mounting flange C

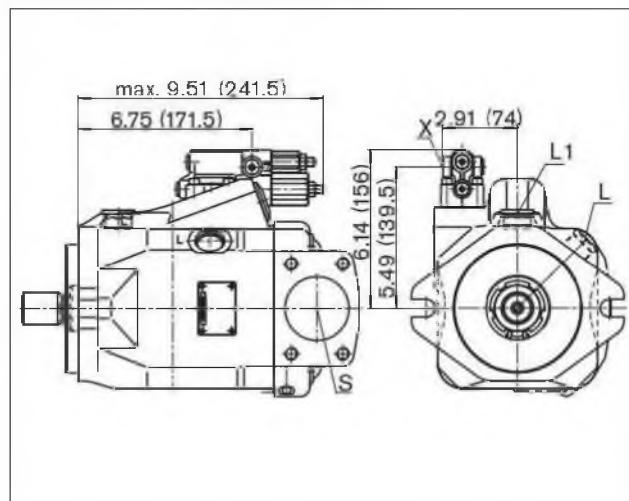
DRG

Pressure controller, remote controlled, **series 52**



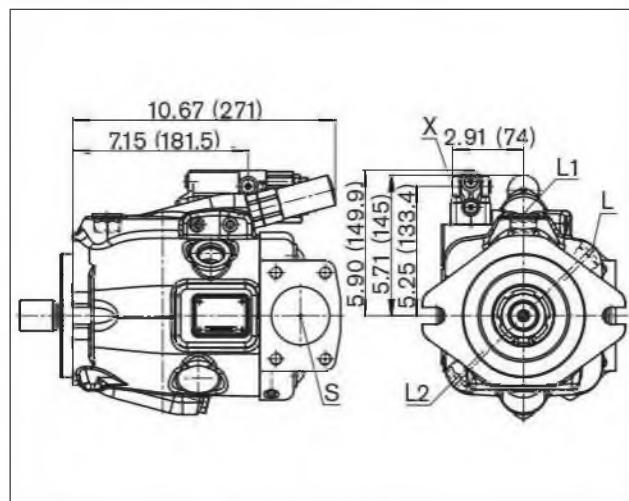
DFR / DFR1

Pressure and flow control, **series 52**



L.A.D.

Pressure, flow and power control, **series 53**

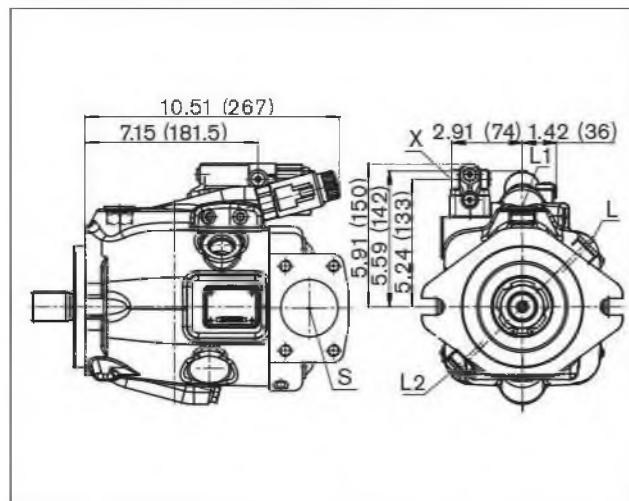


¹⁾ ER7.: 191 mm if using an intermediate plate pressure controller.

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

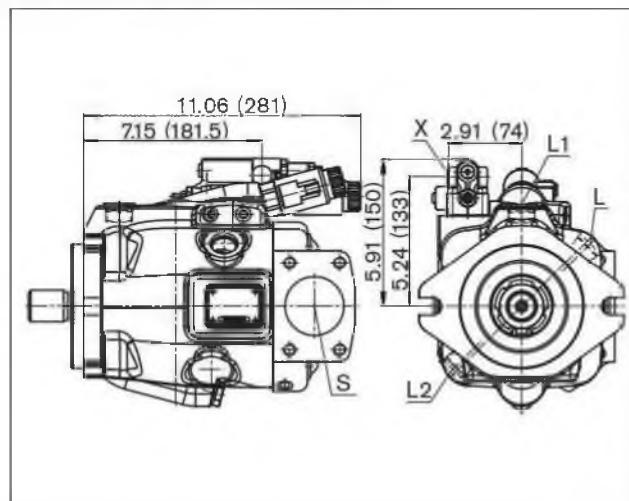
EP.D. / EKD.

Electro-proportional control, **series 53**



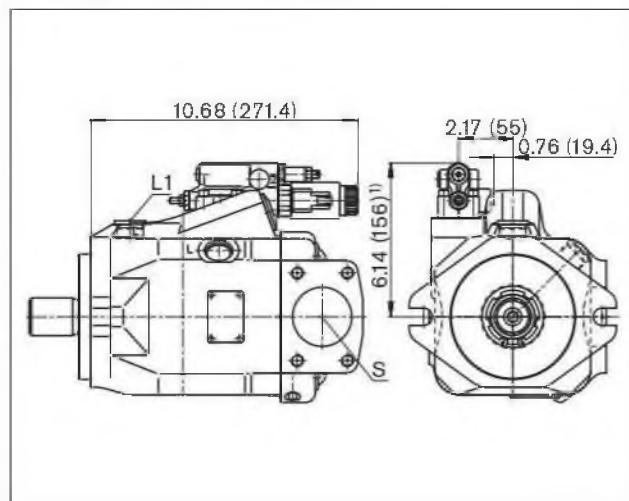
EP.ED / EK.ED

Electro-proportional control, **series 53**



ED.. / ER..

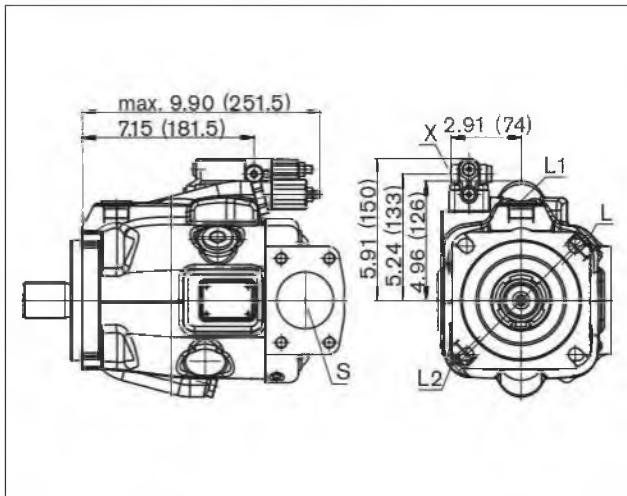
Electro-hydraulic pressure control, **series 52**



Dimensions, size 85, mounting flange D

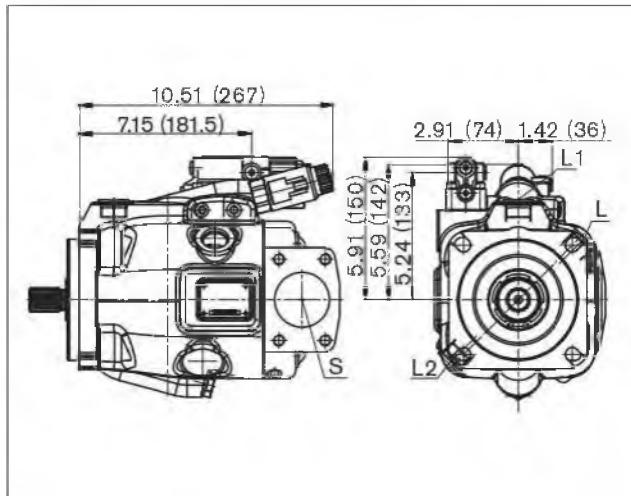
DRF/DRS

Pressure and flow control, series 53



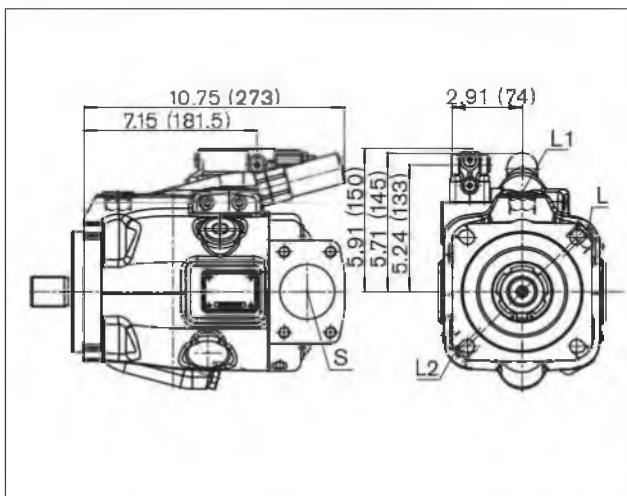
EP.D. / EK.D.

Electro-proportional control, series 53



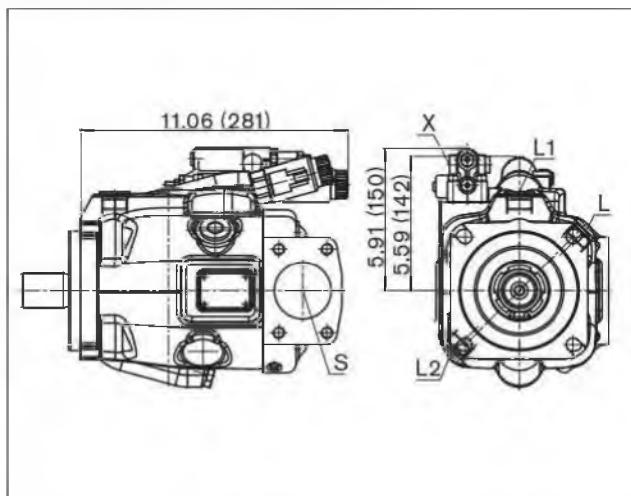
L.A.D.

Pressure, flow and power control, series 53



EP.ED / EK.ED

Electro-proportional control, series 53



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

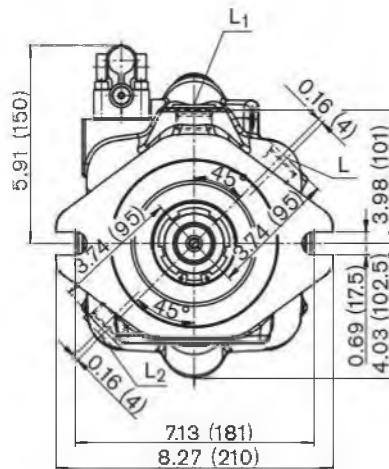
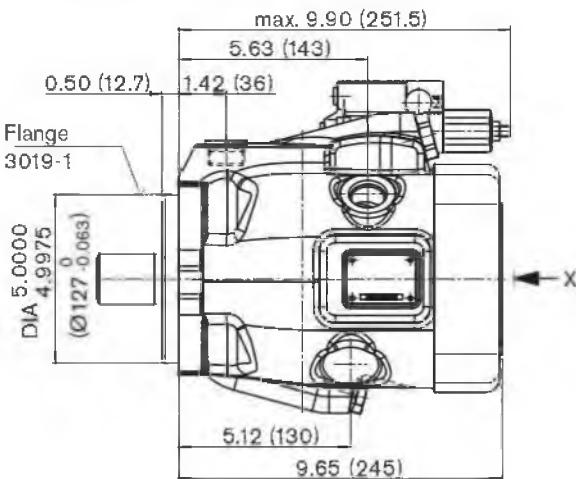
Dimensions, size 100¹⁾

DR - Hydraulic pressure controller

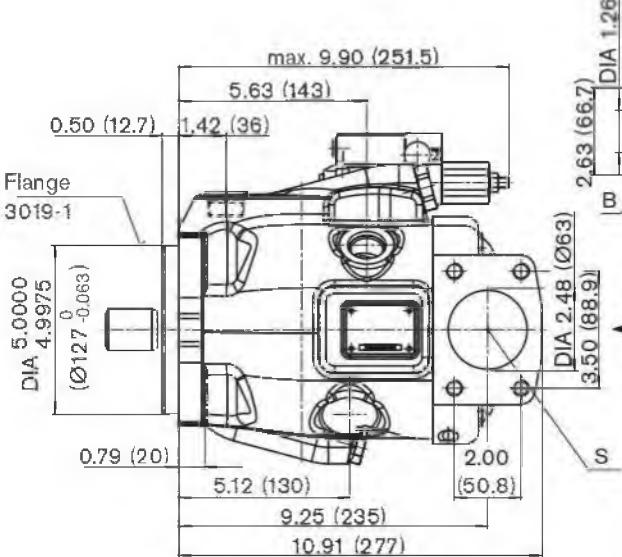
Mounting flange C, clockwise rotation, series 53

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

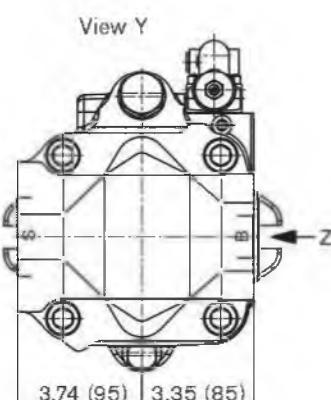
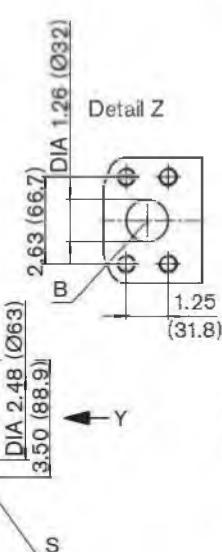
Port plate 61



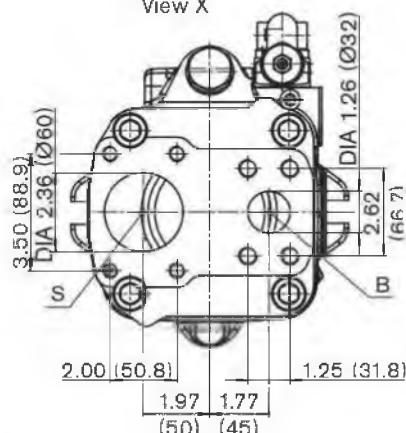
Port plate 62



Detail Z



View X



¹⁾ Dimensions of service line ports turned through 180° for counter-clockwise rotation
For details of connection options and drive shafts

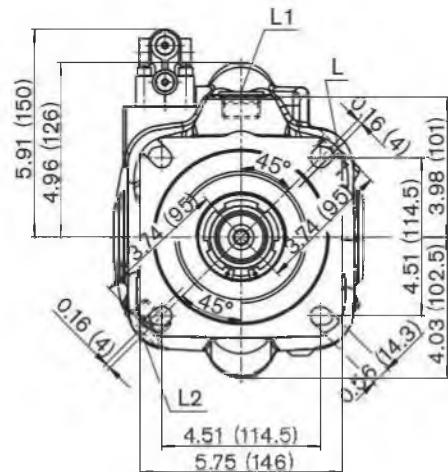
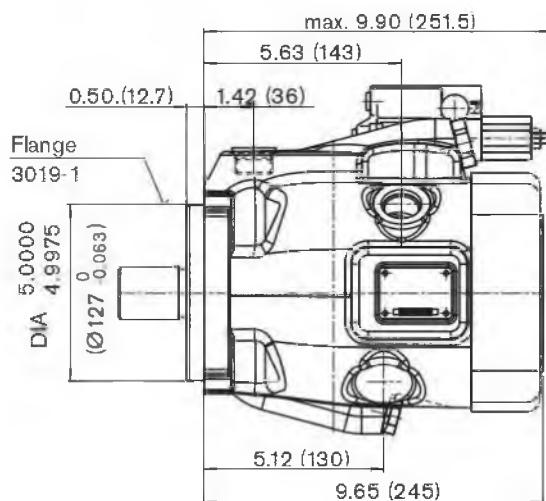
Dimensions, size 100¹⁾

DR – Hydraulic pressure controller

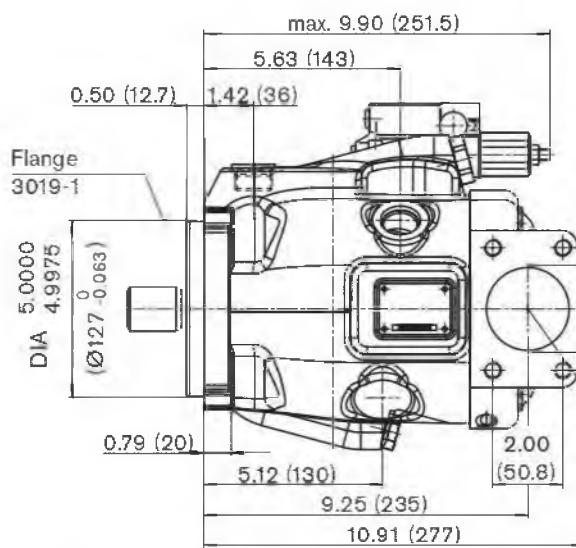
Mounting flange D, clockwise rotation, series 53

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

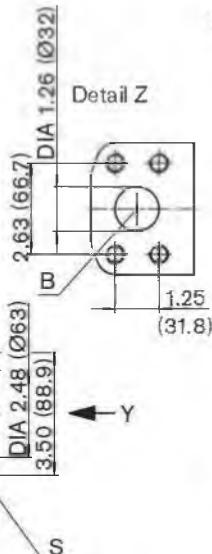
Port plate 61



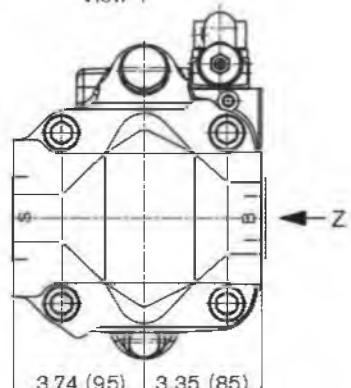
Port plate 62



Detail Z



View Y

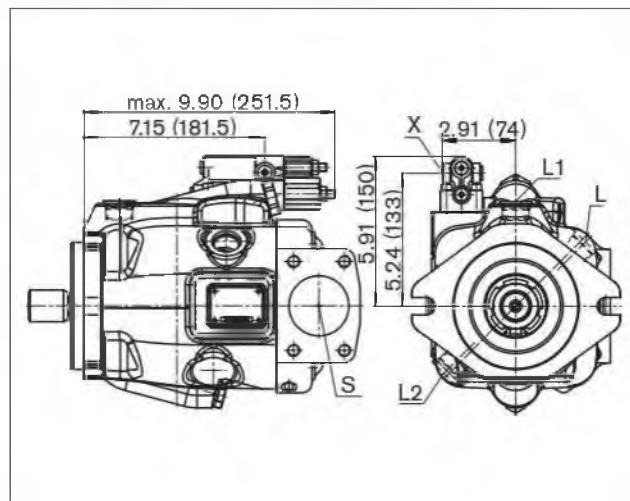


¹⁾ Dimensions of service line ports turned through 180° for counter-clockwise rotation
For details of connection options and drive shafts.

Dimensions, size 100

DRG

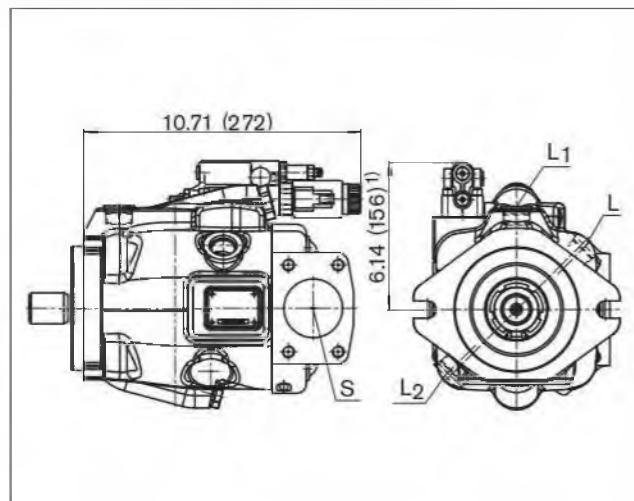
Pressure controller, remote controlled, **series 53**



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

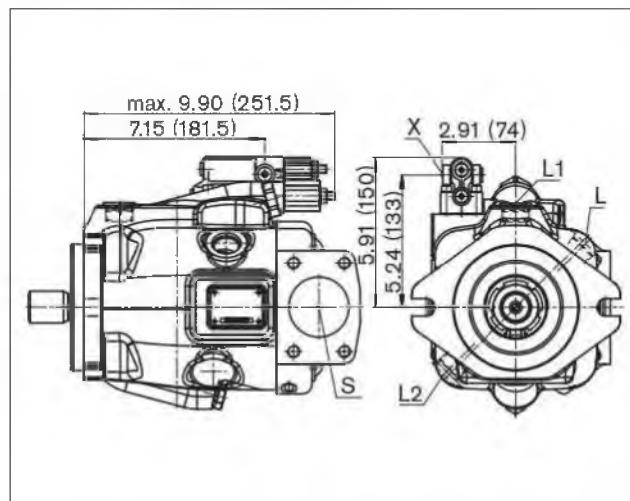
ED../ ER..

Electro-hydraulic pressure control, **series 53**



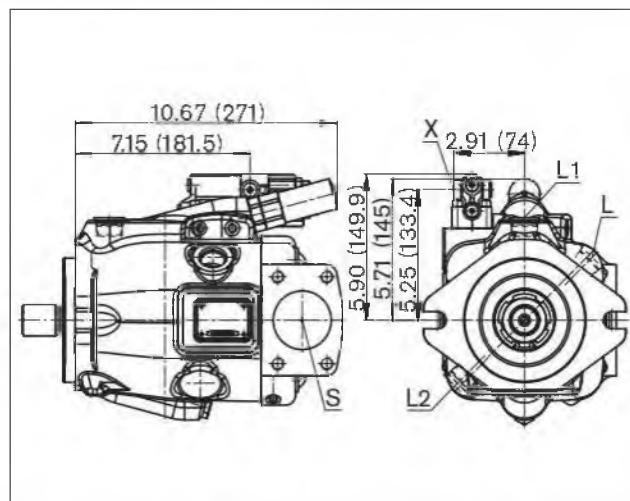
DRF/DRS

Pressure and flow control, **series 53**



L.A.D.

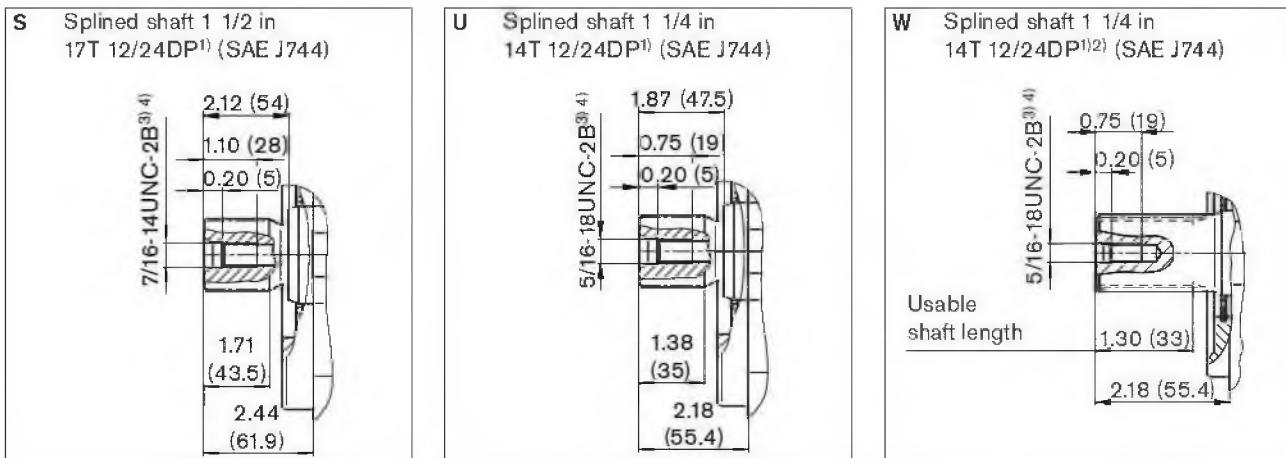
Pressure, flow and power control, **series 53**



¹⁾ ER7.: 7.52 inches (191 mm) if using an intermediate plate pressure controller.

Dimensions, size 100

Drive shaft



Ports

Designation	Port for	Standard	Size ⁴⁾	Maximum pressure [bar] ⁵⁾	State
B	Service line, fixing thread	SAE J518 ASME B1.1	1 1/4 in 1/2-13UNC-2B; 0.75 (19) deep	4600 (315)	O
S	Suction line, fixing thread	SAE J518 ASME B1.1	2 1/2 in 1/2-13UNC-2B; 1.07 (27) deep	75 (5)	O
L	Case drain fluid	ISO 11926 ⁶⁾	1 1/16-12UNF-2B; 0.59 (15) deep	30 (2)	O ⁸⁾
L ₁ , L ₂	Case drain fluid	ISO 11926 ⁶⁾	1 1/16-12UNF-2B; 0.59 (15) deep	30 (2)	X ⁹⁾
X	Control pressure	ISO 11926 ⁶⁾	7/16-20UNF-2A; 0.45 (11.5) deep	4600 (315)	O

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 FINAL PAGE must be observed.

5) Depending on the application, momentary pressure spikes can occur. Consider this when selecting measuring equipment and fittings.

6) Metric fixing thread is a deviation from standard.

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

8) Depending on the installation position, L, L₁ or L₂ must be connected

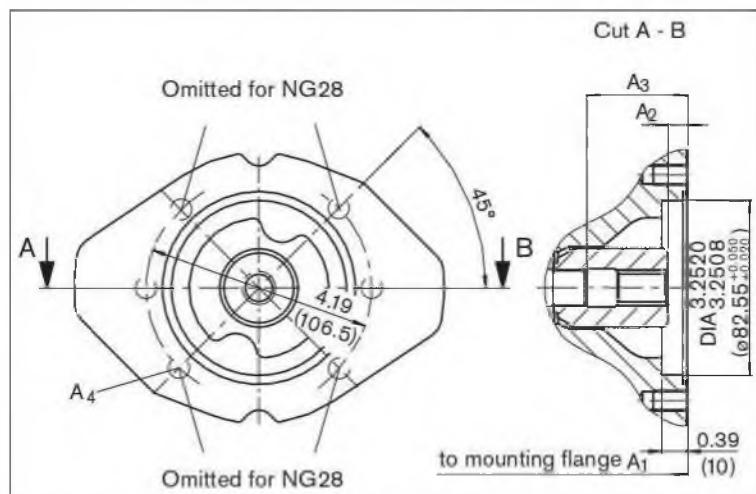
O = Must be connected (plugged on delivery)

X = Plugged (in normal operation)

Dimensions through drive

K01 flange SAE J744 - 82-2 (A)

Coupling for splined shaft in accordance with ANSI B92.1a-1996



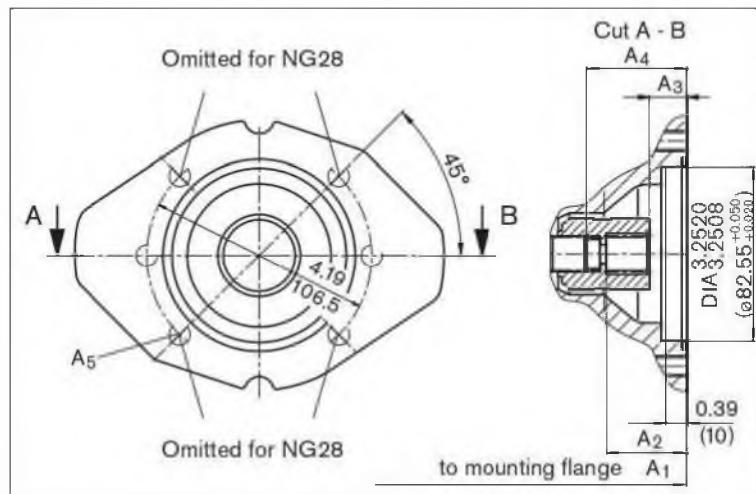
Before finalizing your design request a certified installation drawing.
Dimensions in inches and (mm).

5/8 in 9T 16/32 DP¹⁾ (SAE J744 - 16-4 (A))

NG	A ₁	A ₂	A ₃	A ₄ ²⁾
18	7.17 (182)	0.37 (9.3)	1.70 (43.3)	M10 x 1.5, 0.57 (14.5) deep
28	8.03 (204)	0.39 (9.9)	1.85 (47)	M10 x 1.5, 0.63 (16) deep
45	9.02 (229)	0.42 (10.7)	2.09 (53)	M10 x 1.5, 0.63 (16) deep
60/63	10.03 (255)	0.37 (9.5)	2.32 (59)	M10 x 1.5, 0.63 (16) deep
85	11.89 (302)	0.53 (13.4)	2.68 (68)	M10 x 1.5, 0.79 (20) deep
100	11.89 (302)	0.53 (13.4)	2.68 (68)	M10 x 1.5, 0.79 (20) deep

K52 flange SAE J744 - 82-2 (A)

Coupling for splined shaft in accordance with ANSI B92.1a-1996

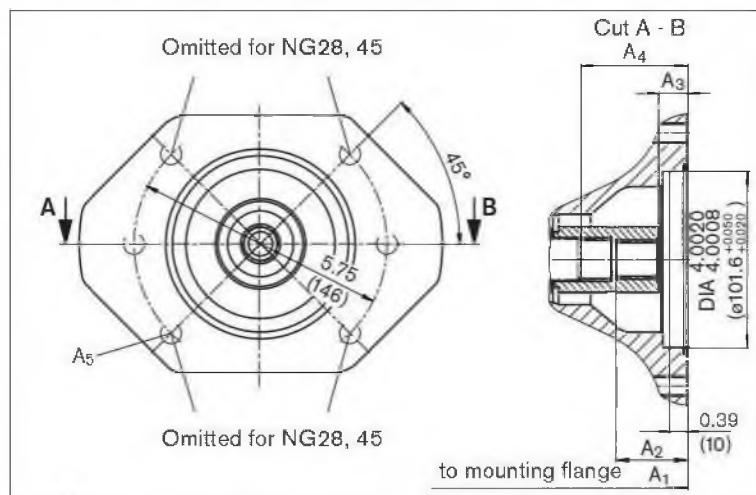


3/4 in 11T 16/32 DP¹⁾ (SAE J744 - 19-4 (A-B))

NG	A ₁	A ₂	A ₃	A ₄	A ₅ ²⁾
18	7.17 (182)		0.37 (9.3)	1.70 (43.3)	M10 x 1.5, 0.57 (14.5) deep
28	8.03 (204)	1.54 (39.3)	0.74 (18.8)	1.85 (47)	M10 x 1.5, 0.63 (16) deep
45	9.02 (229)	1.55 (39.4)	0.75 (18.9)	2.09 (53)	M10 x 1.5, 0.63 (16) deep
60/63	10.03 (255)	1.55 (39.4)	0.75 (18.9)	2.40 (61)	M10 x 1.5, 0.63 (16) deep
85	11.89 (302)	1.74 (44.1)	0.93 (23.6)	2.56 (65)	M10 x 1.5, 0.79 (20) deep
100	11.89 (302)	1.74 (44.1)	0.93 (23.6)	2.56 (65)	M10 x 1.5, 0.79 (20) deep

K68 flange SAE J744 - 101-2 (B)

Coupling for splined shaft in accordance with ANSI B92.1a-1996



7/8 in 13T 16/32 DP¹⁾ (SAE J744 - 22-4 (B))

NG	A ₁	A ₂	A ₃	A ₄	A ₅ ²⁾
28	8.03 (204)	1.66 (42.3)	0.70 (17.8)	1.85 (47)	M12 x 1.75, 0.71 (18) deep
45	9.02 (229)	1.67 (42.4)	0.71 (17.9)	2.09 (53)	M12 x 1.75, 0.71 (18) deep
60/63	10.03 (255)	1.67 (42.4)	0.71 (17.9)	2.32 (59)	M12 x 1.75, 0.71 (18) deep
85	11.89 (302)	1.83 (46.5)	0.87 (22)	2.72 (69)	M12 x 1.75, 0.79 (20) deep
100	11.89 (302)	1.83 (46.5)	0.87 (22)	2.72 (69)	M12 x 1.75, 0.79 (20) deep

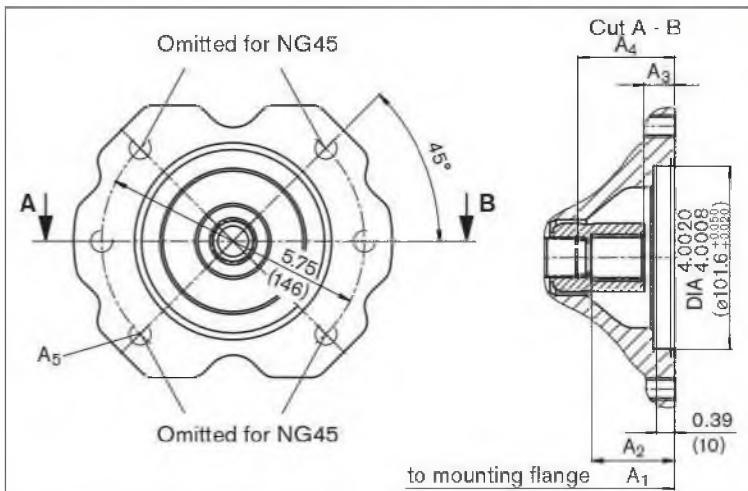
¹⁾ 30° pressure angle, flat base, flank centering, tolerance class 5

²⁾ Thread according to DIN 13, observe the general instructions on FINAL PAGE must be observed.

Dimensions through drive

K04 flange SAE J744 - 101-2 (B)

Coupling for splined shaft in accordance with ANSI B92.1a-1996



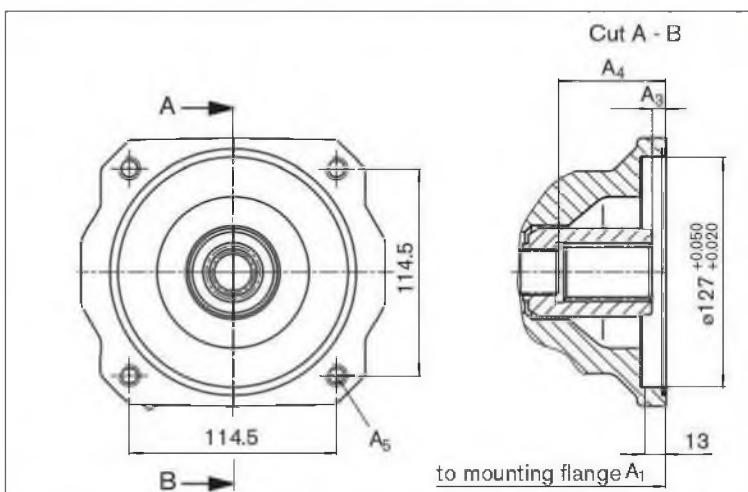
Before finalizing your design request a certified installation drawing.
Dimensions in inches and (mm).

1 in 15T 16/32 DP¹⁾ (SAE J744 - 25-4 (B-B))

NG	A ₁	A ₂	A ₃	A ₄	A ₅ ²⁾
45	9.02	1.88	0.74	2.10	M12 x 1.75, (229) (47.9) (18.9) (53.4) 0.71 (18) deep
60/	10.03	1.87	0.72	2.32	M12 x 1.75,
63	(255)	(47.4)	(18.4)	(58.9)	0.71 (18) deep
85	11.89	2.01	0.87	2.72	M12 x 1.75, (302) (51.2) (22.2) (69) 0.79 (20) deep
100	11.89	2.01	0.87	2.72	M12 x 1.75, (302) (51.2) (22.2) (69) 0.79 (20) deep

K15 flange SAE J744 - 127-4 (C)

Coupling for splined shaft in accordance with ANSI B92.1a-1996

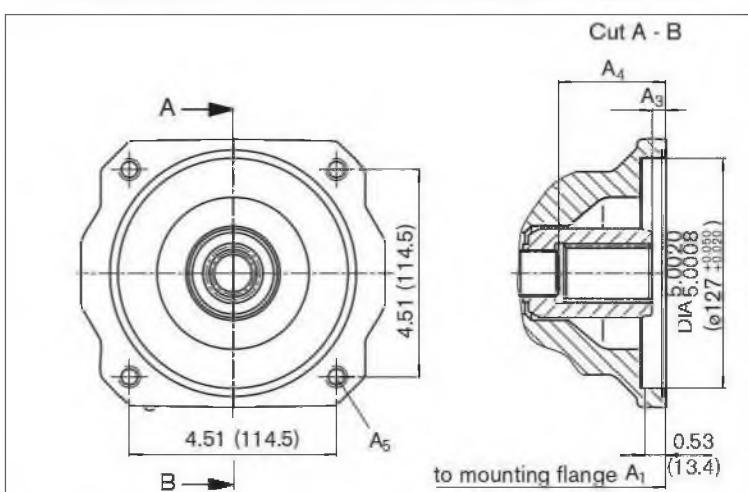


1 1/4 in 14T 12/24 DP¹⁾ (SAE J744 - 32-4 (C))

NG	A ₁	A ₂	A ₃	A ₄ ²⁾
60/	10.03	0.31	2.32	M12 x 1.75, (255) (8) (59) 0.63 (16) deep
63	(255)	(8)	(59)	0.63 (16) deep
85	11.87	0.51	2.67	M12 x 1.75, (301.5) (13) (67.9) through
100	11.87	0.51	2.67	M12 x 1.75, (301.5) (13) (67.9) through

K16 flange SAE J744 - 127-4 (C)

Coupling for splined shaft in accordance with ANSI B92.1a-1996



1 1/2 in 17T 12/24 DP¹⁾ (SAE J744 - 32-4 (C))

NG	A ₁	A ₂	A ₃	A ₄ ²⁾
85	11.87	0.51	2.67	M12 x 1.75, (301.5) (13) (67.9) through
100	11.87	0.51	2.67	M12 x 1.75, (301.5) (13) (67.9) through

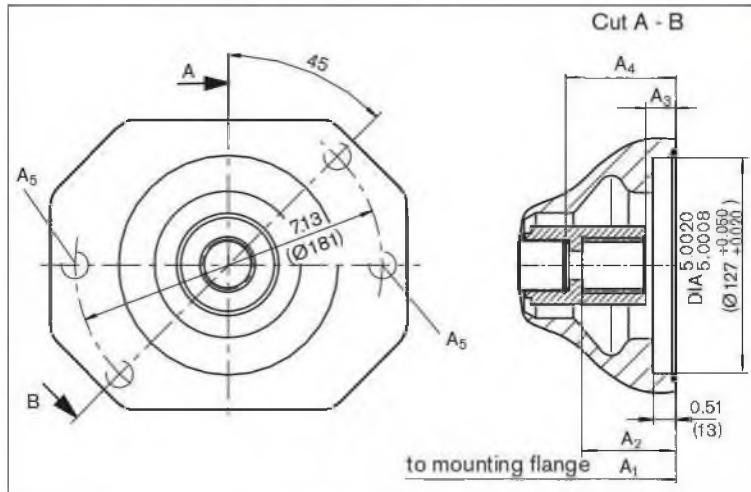
1) 30° pressure angle, flat base, flank centering, tolerance class 5

2) Thread according to DIN 13, observe the general instructions on FINAL PAGE must be observed.

Dimensions through drive

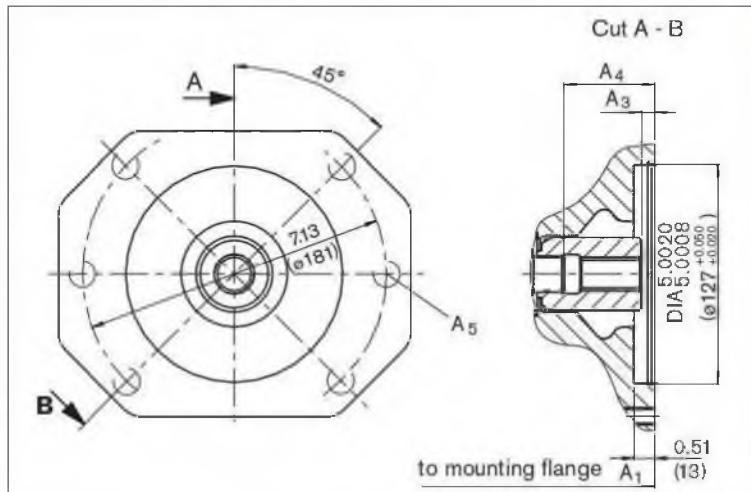
K07 flange SAE J744 - 127-2 (C)

Coupling for splined shaft in accordance with ANSI B92.1a-1996



K24 flange SAE J744 - 127-2 (C)

Coupling for splined shaft in accordance with ANSI B92.1a-1996



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

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

NG	A ₁	A ₂	A ₃	A ₄ ²⁾
85	11.87 (301.5)	0.51 (13)	2.67 (67.9)	M12 x 1.75, through
100	11.87 (301.5)	0.51 (13)	2.67 (67.9)	M12 x 1.75, through

1 1/2 in 17T 12/24 DP¹⁾ (SAE J744 - 38-4 (C-C))

NG	A ₁	A ₂	A ₃	A ₄ ²⁾
85	11.89 (302)	0.31 (8)	2.68 (68)	M16 x 2, 0.94 (24) deep
100	11.89 (302)	0.31 (8)	2.68 (68)	M16 x 2, 0.94 (24) deep

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3882)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
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Ноябрьск (3496)41-32-12
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Орел (4862)44-53-42
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Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
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Саратов (845)249-38-78
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Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сыктывкар (8212)25-95-17
Сургут (3462)77-98-35
Тамбов (4752)50-40-97
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Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Улан-Удэ (3012)59-97-51
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93