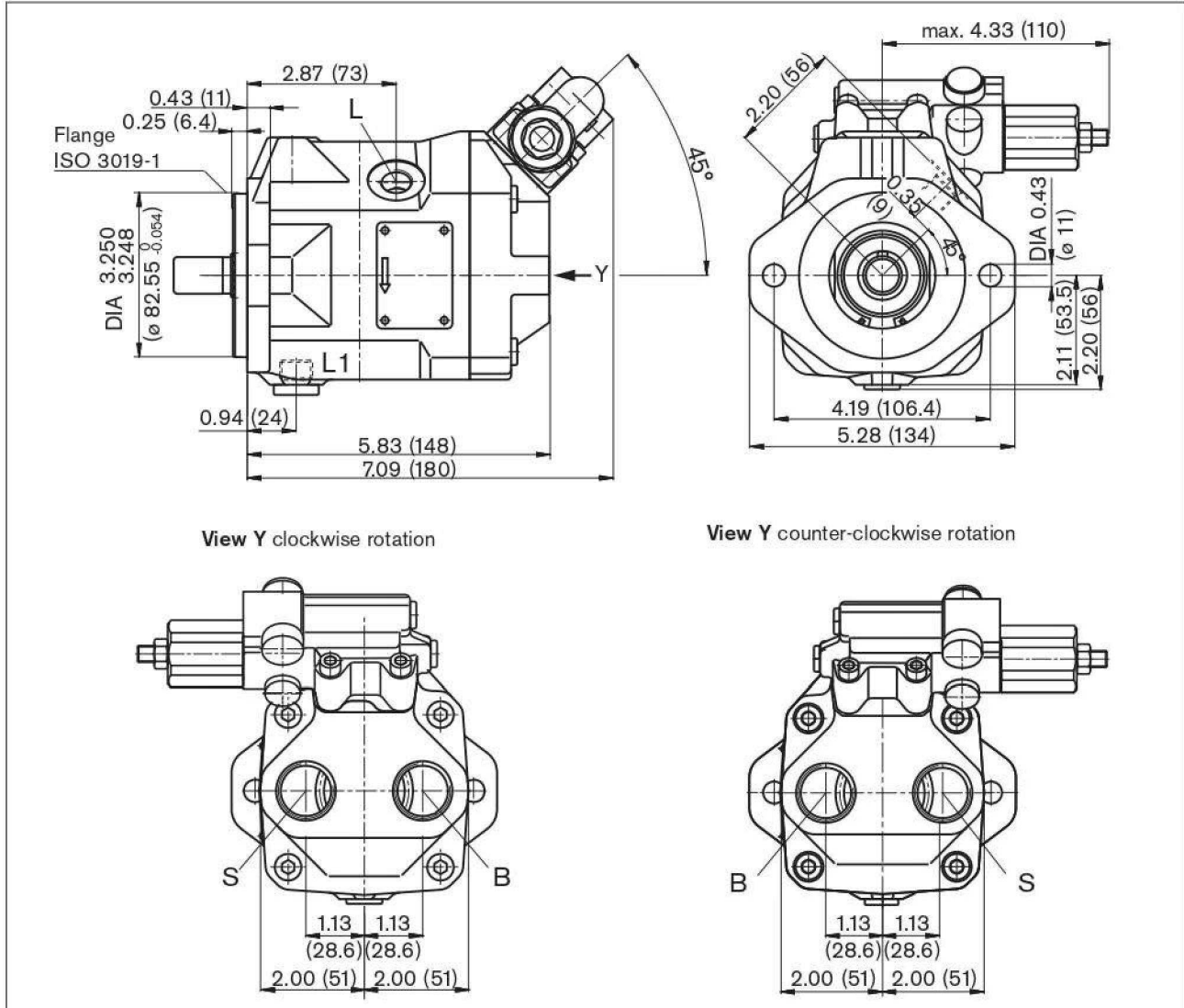


Dimensions, size 10

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

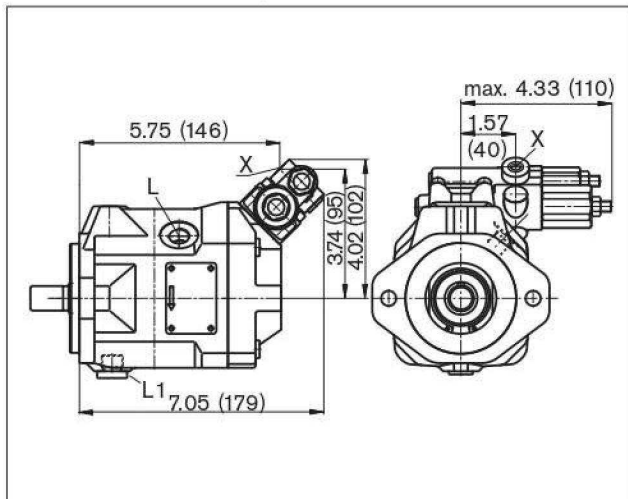
DR – Hydraulic pressure controller

Centering flange SAE version; series 52



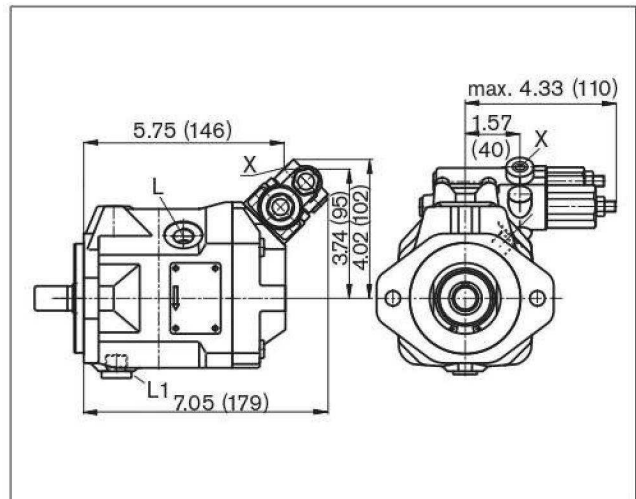
DRG

Pressure and flow control, remote controlled



DFR / DFR1

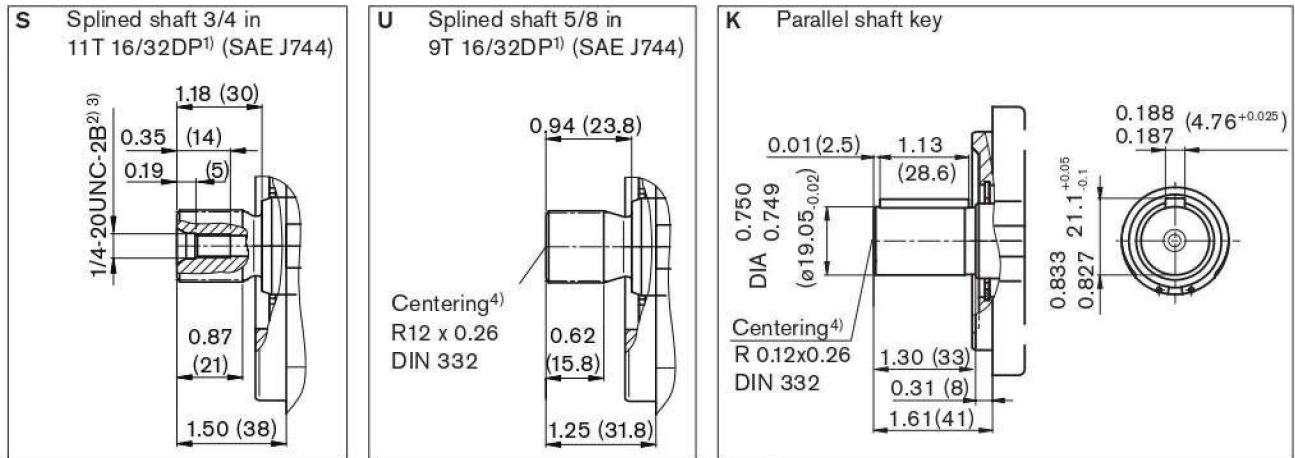
Pressure and flow control



Dimensions, size 10

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

Drive shaft



Ports

Designation	Port for	Standard	Size ³⁾	Maximum pressure [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 B92.1 a, 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)

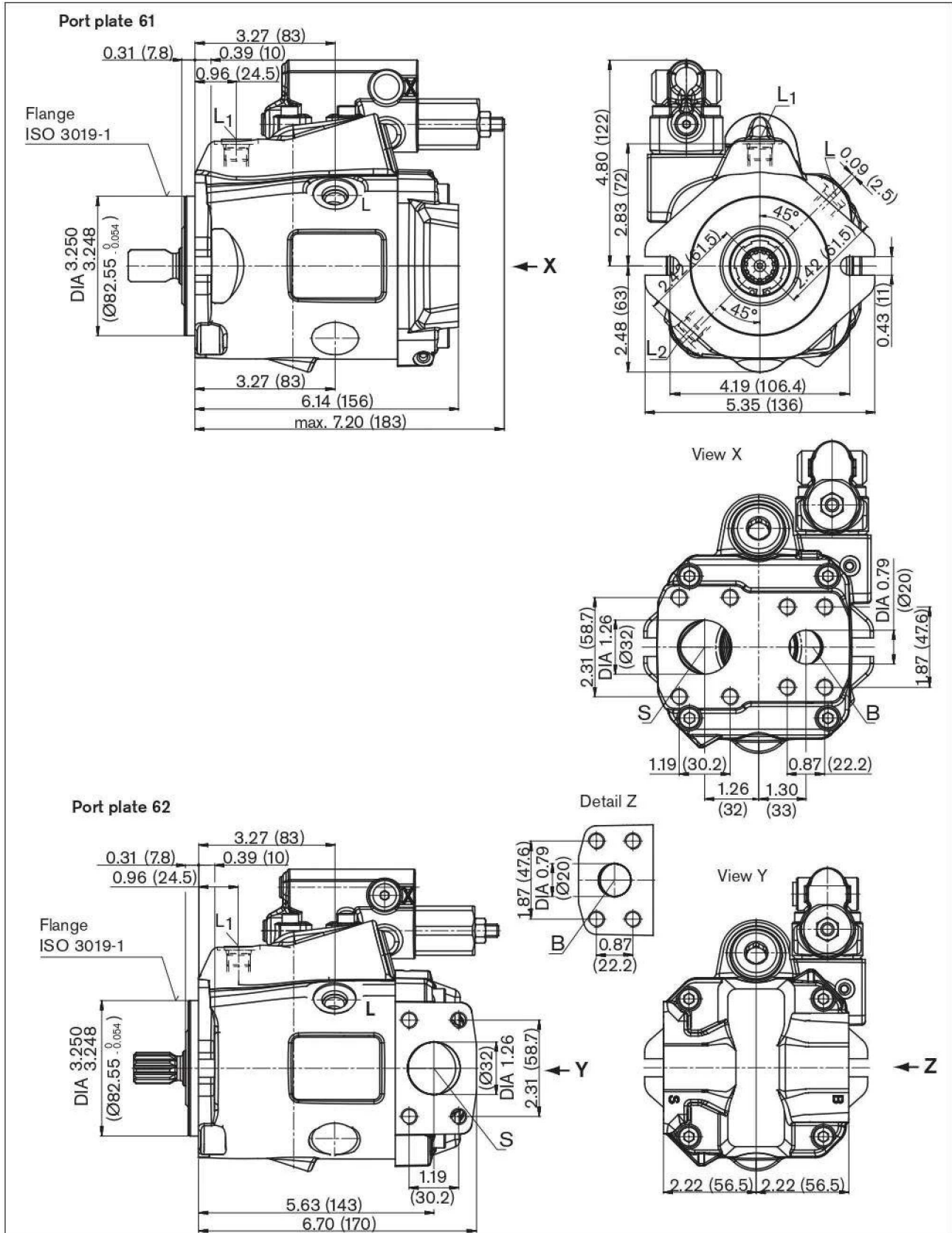
X = Plugged (in normal operation)

Dimensions, size 18¹⁾

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

DR – Hydraulic pressure controller

Clockwise rotation, series 53

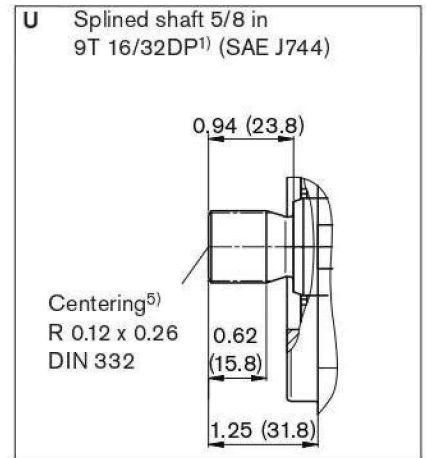
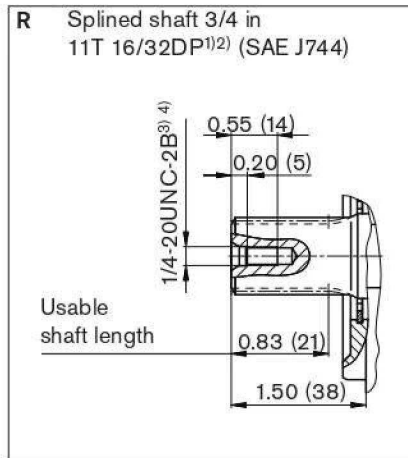
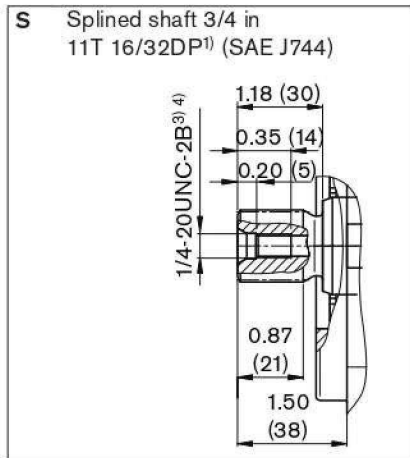


1) Dimensions of service line ports turned through 180° for counter-clockwise rotation
For details of connection options and drive shafts.

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

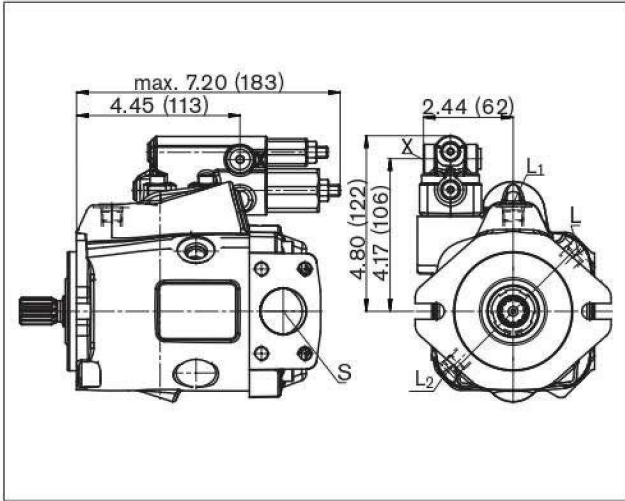
- 1) ANSI B92.1a, 30° pressure angle, flat root, side fit, tolerance class 5
 - 2) Splines according to ANSI B92.1a, run out of spline is a deviation from standard
 - 3) Thread according to ASME B1.1
 - 4) For the maximum tightening torques the general instructions on FINAL PAGE must be observed.
 -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

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

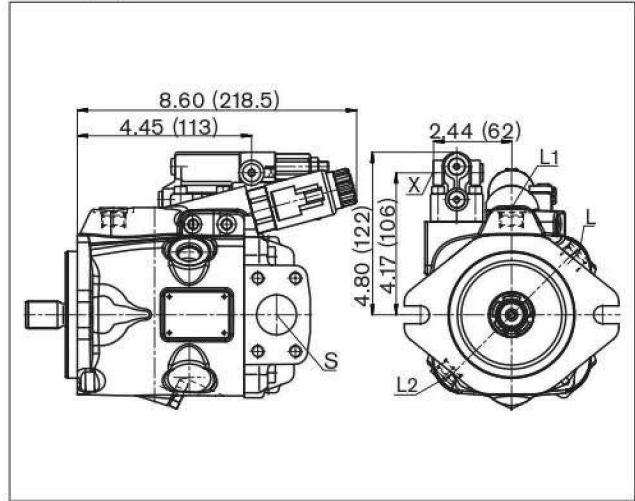
DRG

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



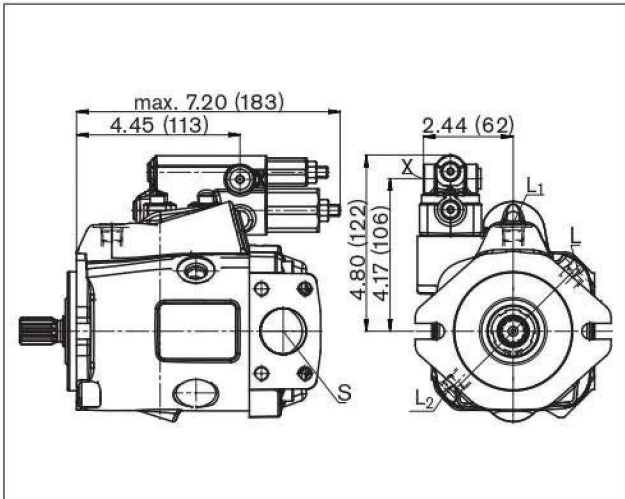
EP.D. / EK.D.

Electro-proportional control, **series 53**



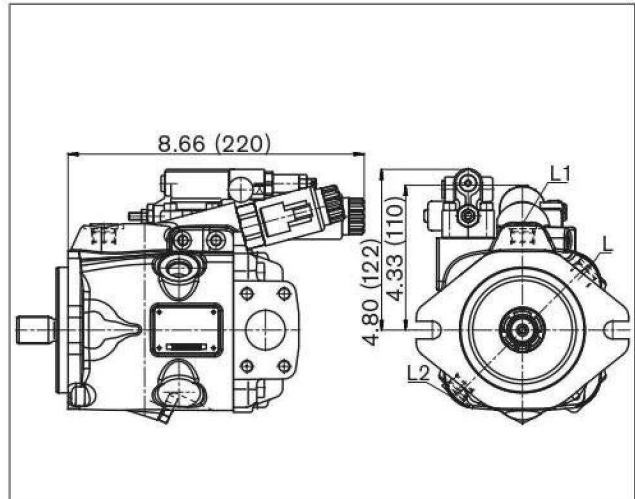
DRF/DRS

Pressure and flow control, **series 53**



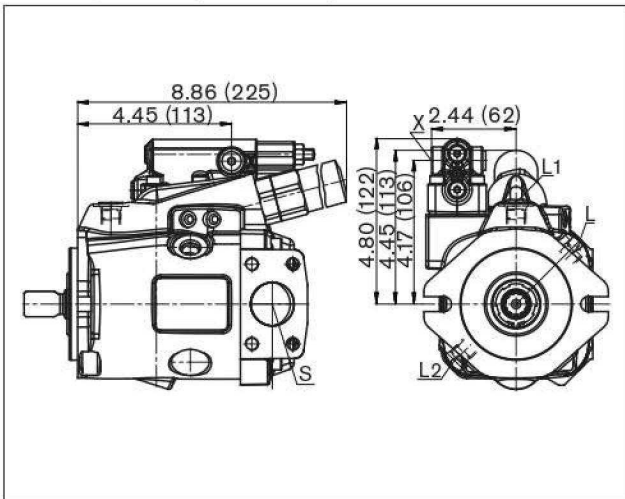
EP.ED / EK.ED

Electro-proportional control, **series 53**



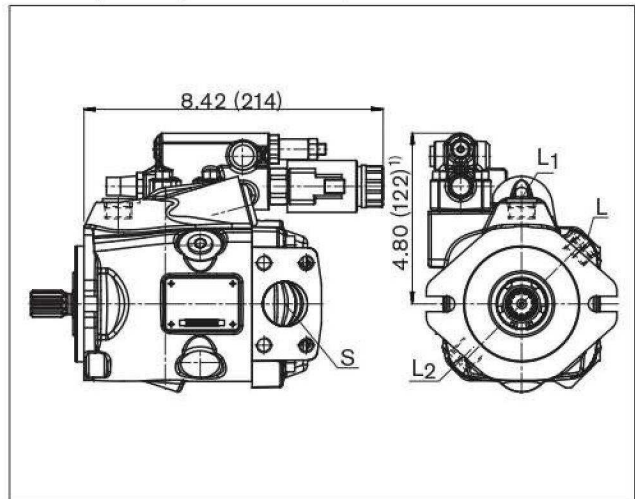
L.A.D.

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



ED7. / ER7.

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

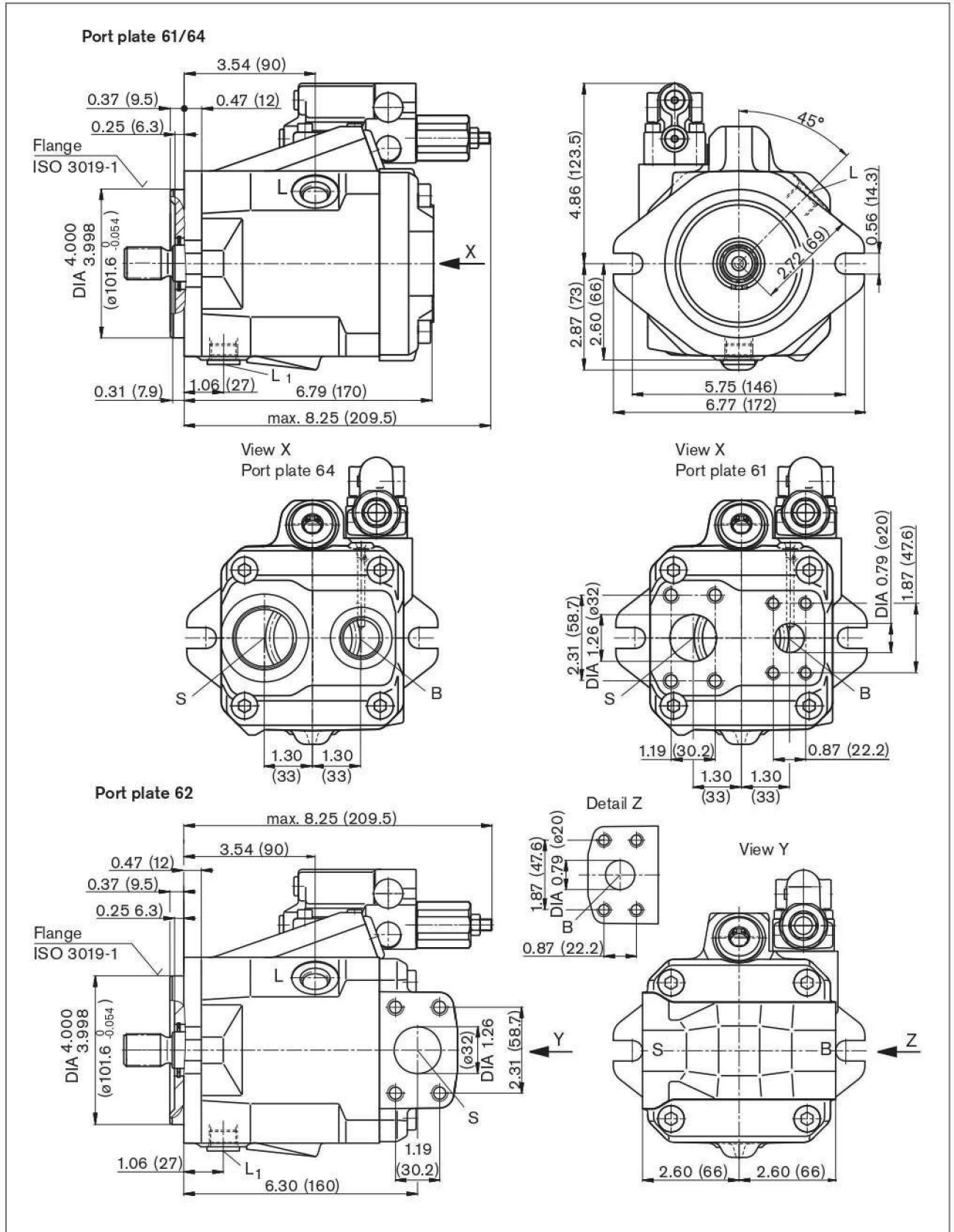


1) ER7.: 6.18 inches (157 mm) if using an intermediate plate pressure controller.

Dimensions, size 28¹⁾²⁾

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

DR – Hydraulic pressure controller Clockwise rotation,

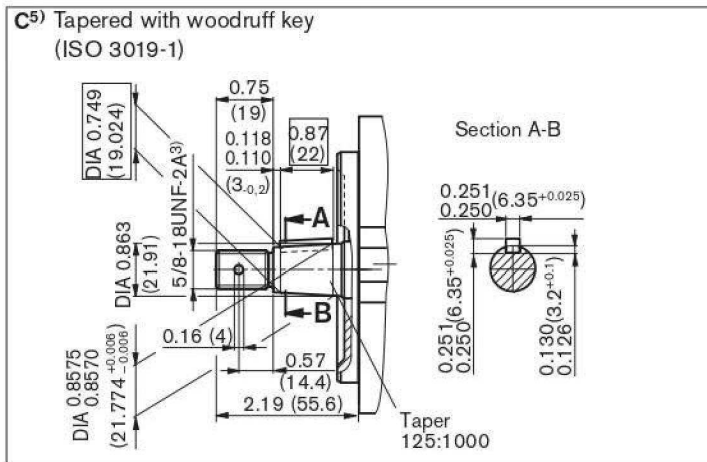
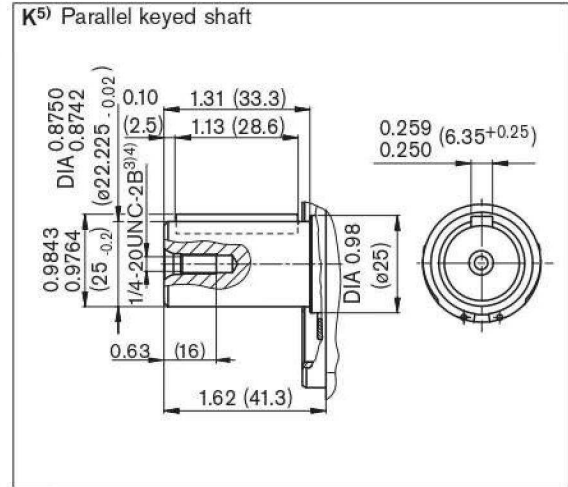
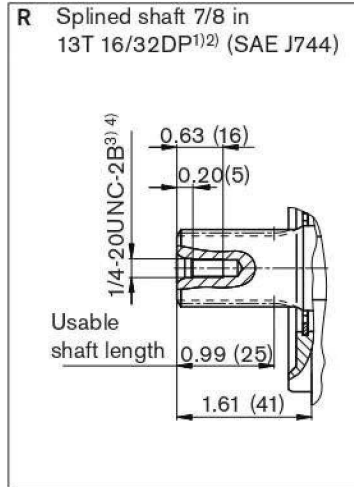
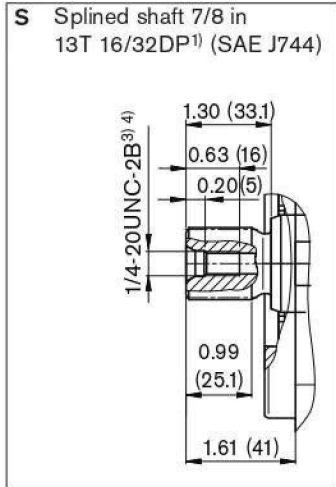


1) Dimensions of service line ports turned through 180° for counter-clockwise rotation

Dimensions, size 28

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

Drive shaft



Ports

Designation	Port for	Standard	Size ⁴⁾	Maximum pres- sure [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; 075 (19) deep	4600 (315)	O
B; Port plate 64	threaded	ISO 11926 ⁷⁾	1 1/16-12UNF-2B; 079 (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; 079 (20) deep	75 (5)	O
S; Port plate 64	threaded	ISO 11926 ⁷⁾	1 5/8-12UN-2B; 079 (20) deep	75 (5)	O
L	Case drain fluid	ISO 11926 ⁷⁾	3/4-16UNF-2B; 047 (12) deep	30 (2)	O ⁹⁾
L ₁ , L ₂ ⁸⁾	Case drain fluid	ISO 11926 ⁷⁾	3/4-16UNF-2B; 047 (12) deep	30 (2)	X ⁹⁾
X	Control pressure	ISO 11926 ⁷⁾	7/16-20UNF-2B; 045 (11.5) deep	4600 (315)	O

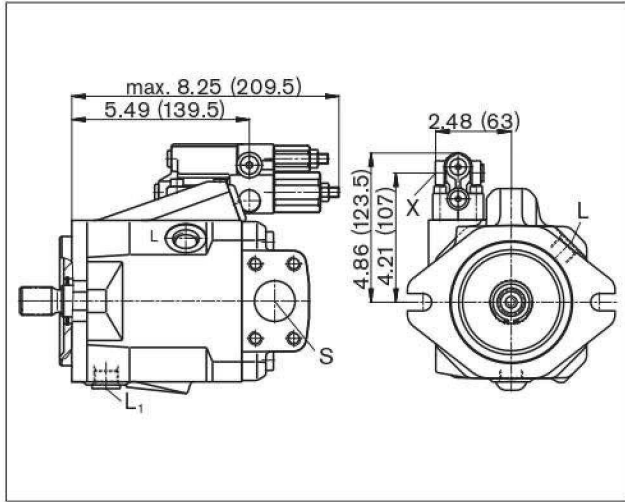
- 1) ANSI B92.1a, 30° pressure angle, flat root, side fit, tolerance class 5
 - 2) Splines according to ANSI B92.1a, run out of spline is a deviation from standard.
 - 3) Thread according to ASME B1.1
 - 4) For the maximum tightening torques the general instructions on FINAL PAGE must be observed.
 -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

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

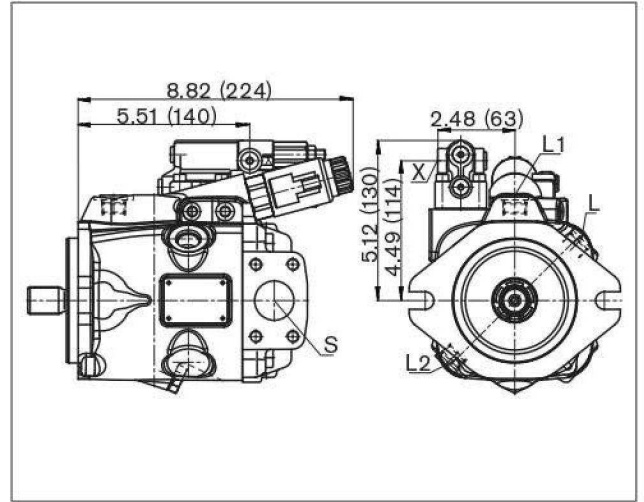
DRG

Pressure controller, remote controlled



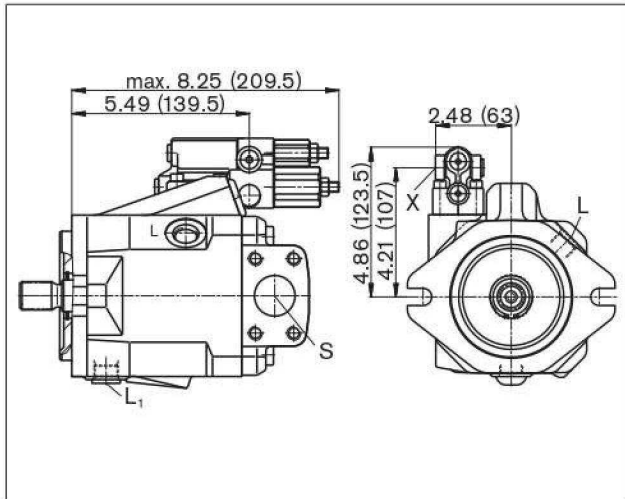
EP.D. / EK.D.

Electro-proportional control



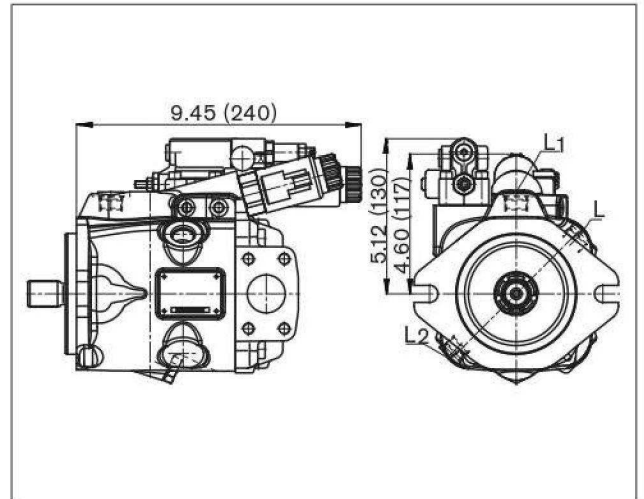
DFR / DFR1

Pressure and flow control



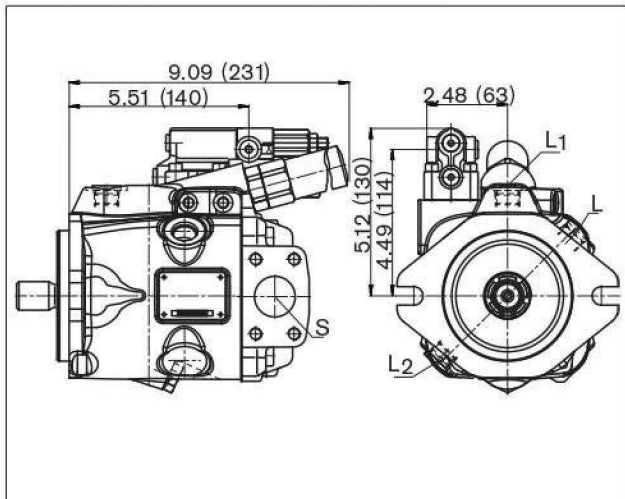
EP.ED / EK.ED

Electro-proportional control,



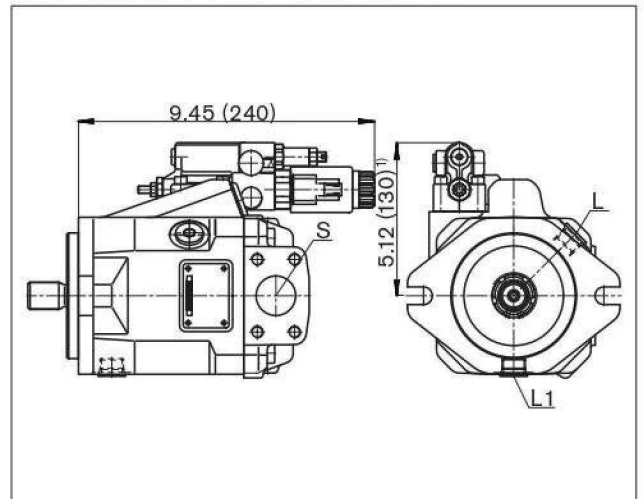
LA.D.

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



ED7. / ER7.

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



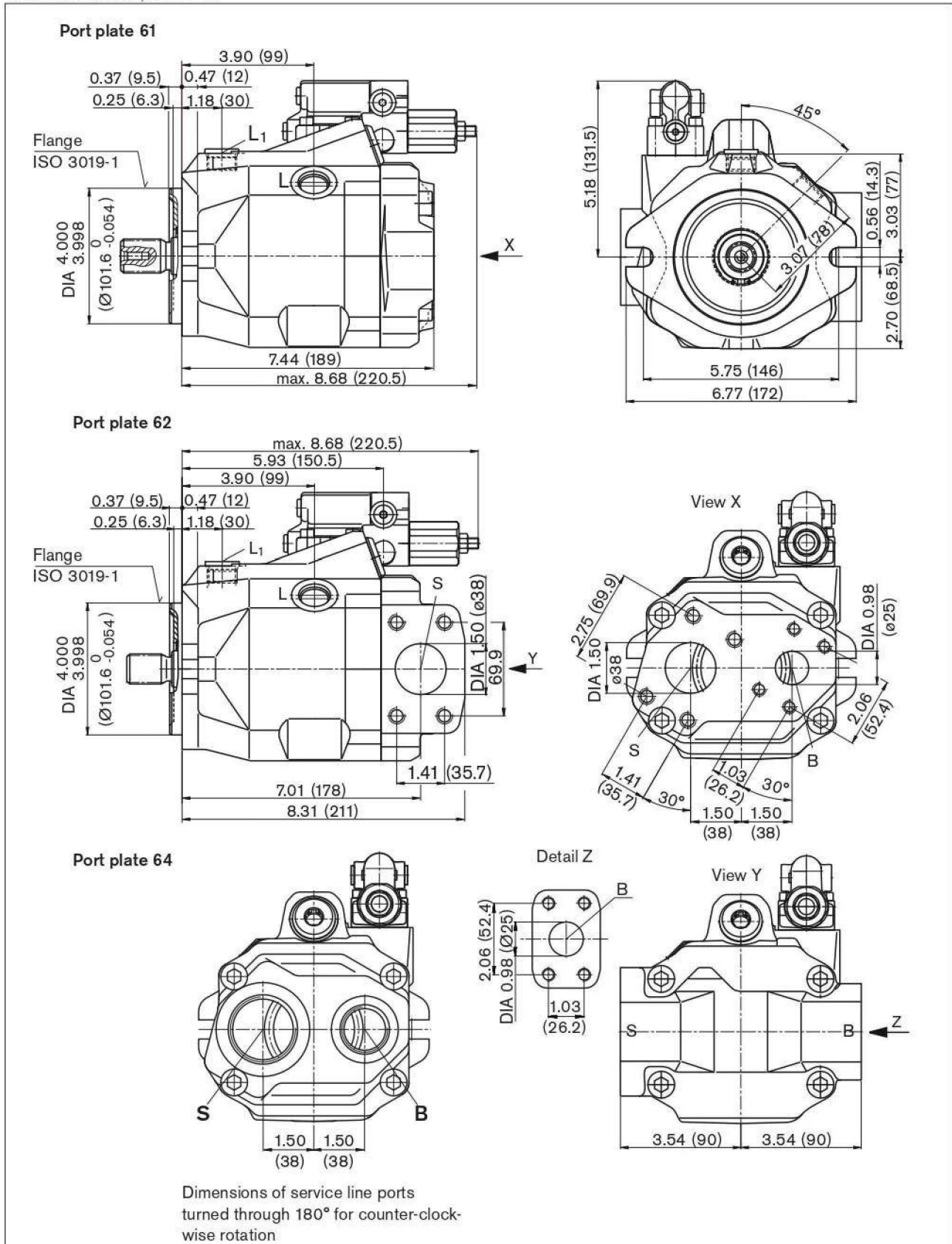
1) ER7.: 6.26 inches (159 mm) if using an intermediate plate pressure controller.

Dimensions, size 45¹⁾

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

DR – Hydraulic pressure controller

Clockwise rotation, series 52

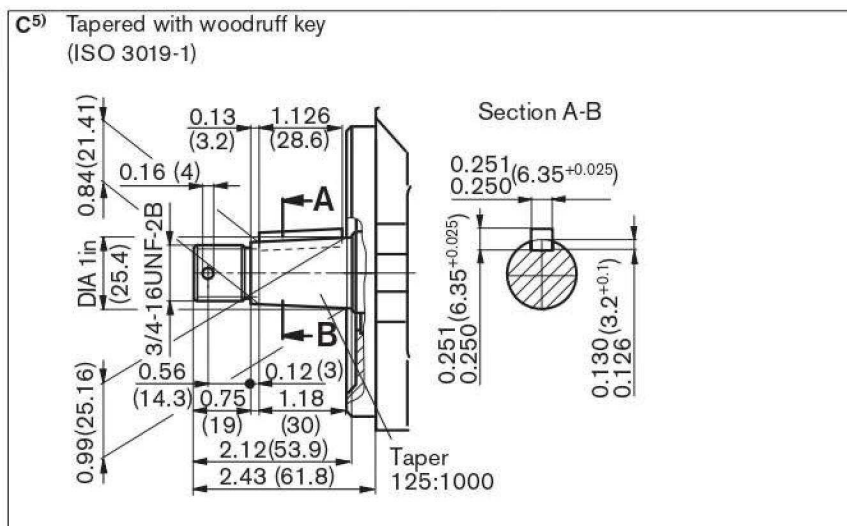
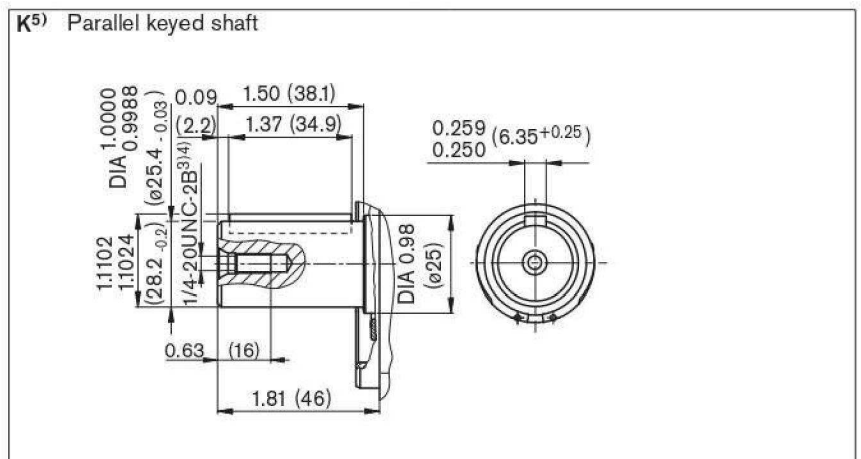
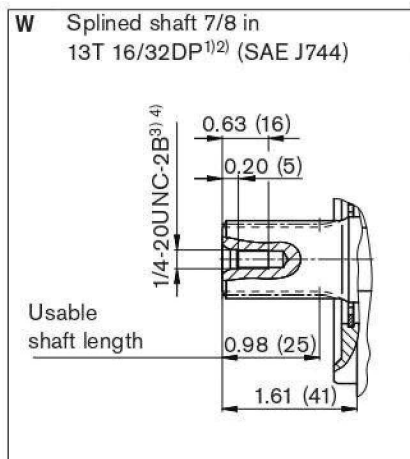
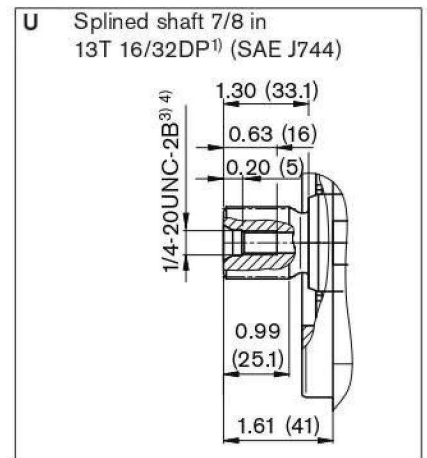
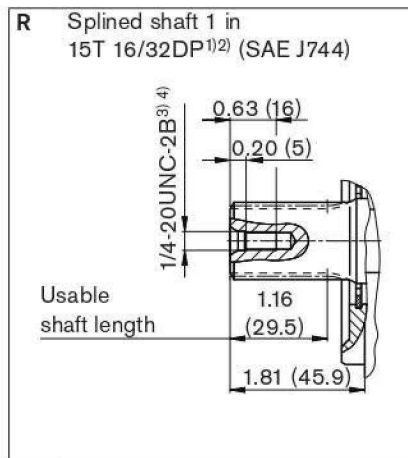
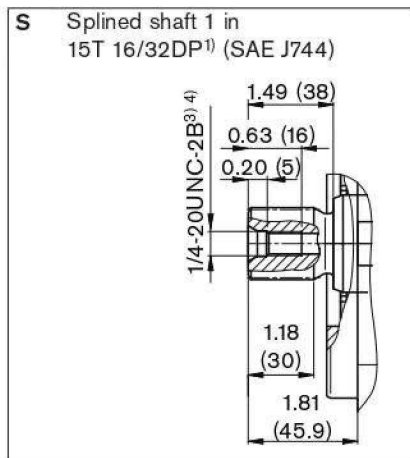


1) Primary dimensions for pump apply for series 52 and 53

Dimensions, size 45

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 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)

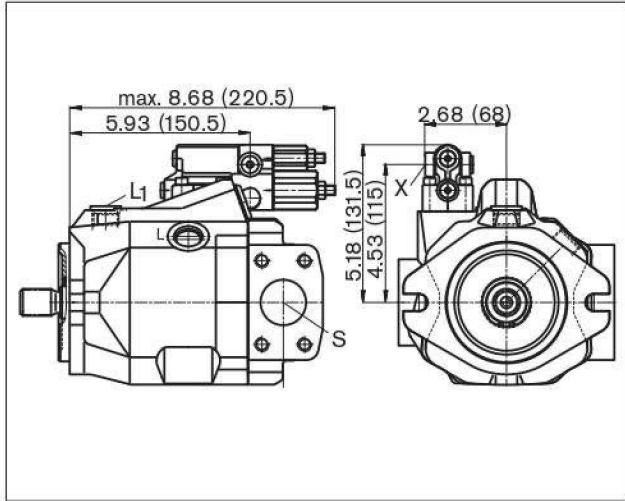
X = Plugged (in normal operation)

Dimensions, size 45

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

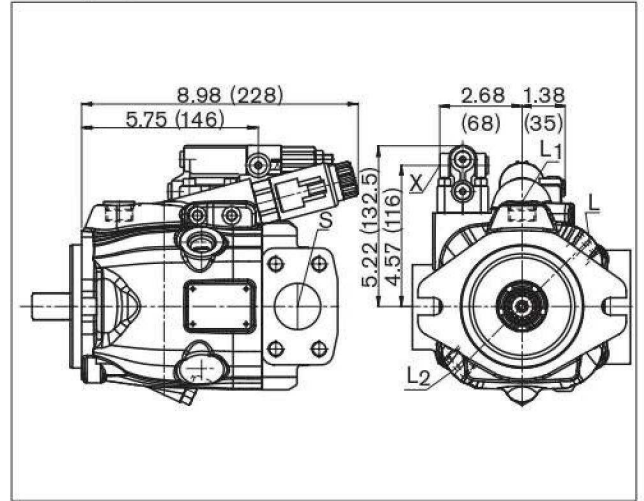
DRG

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



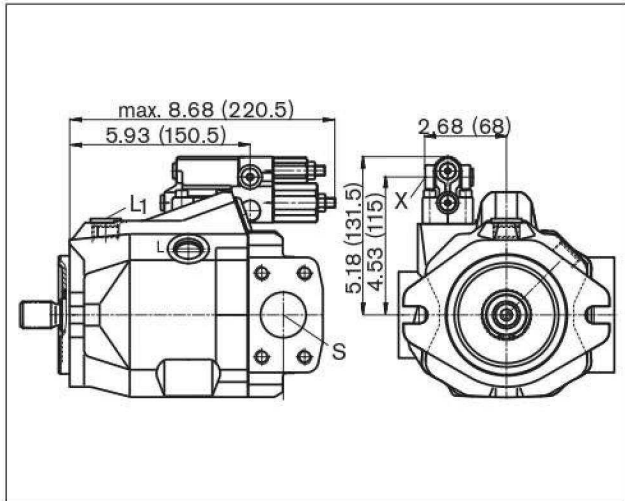
EP.D. / EK.D.

Electro-proportional control, **series 53**



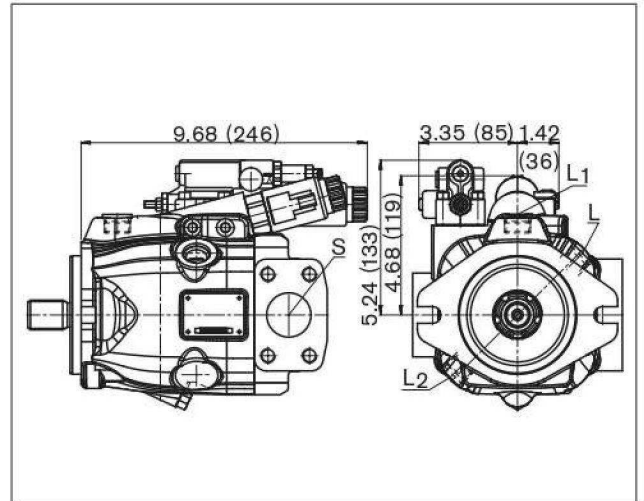
DFR / DFR1

Pressure and flow control, **series 52**



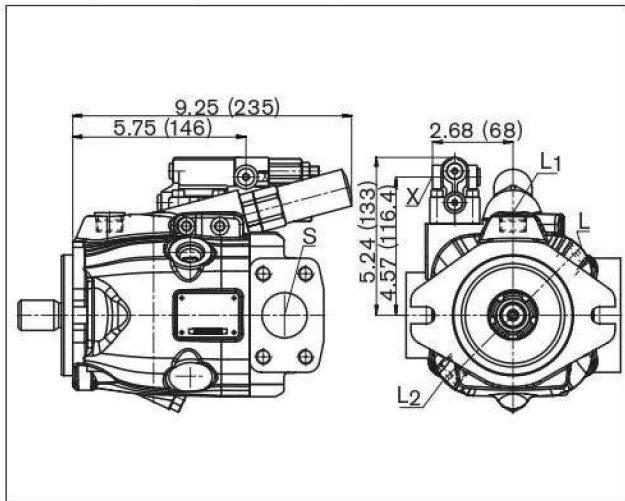
EP.ED / EK.ED

Electro-proportional control, **series 53**



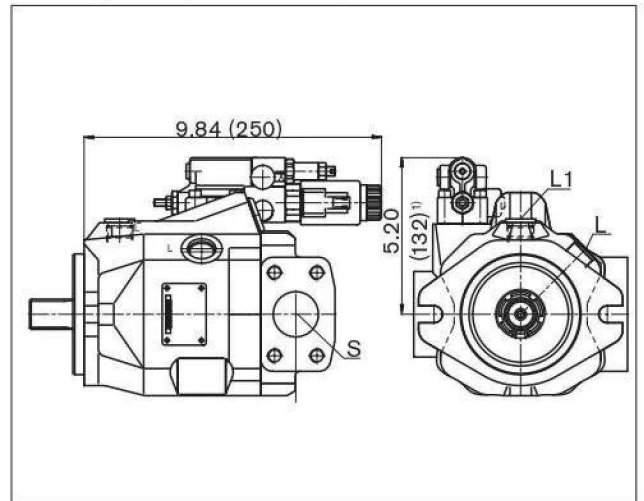
LA.D.

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



ED7. / ER7.

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



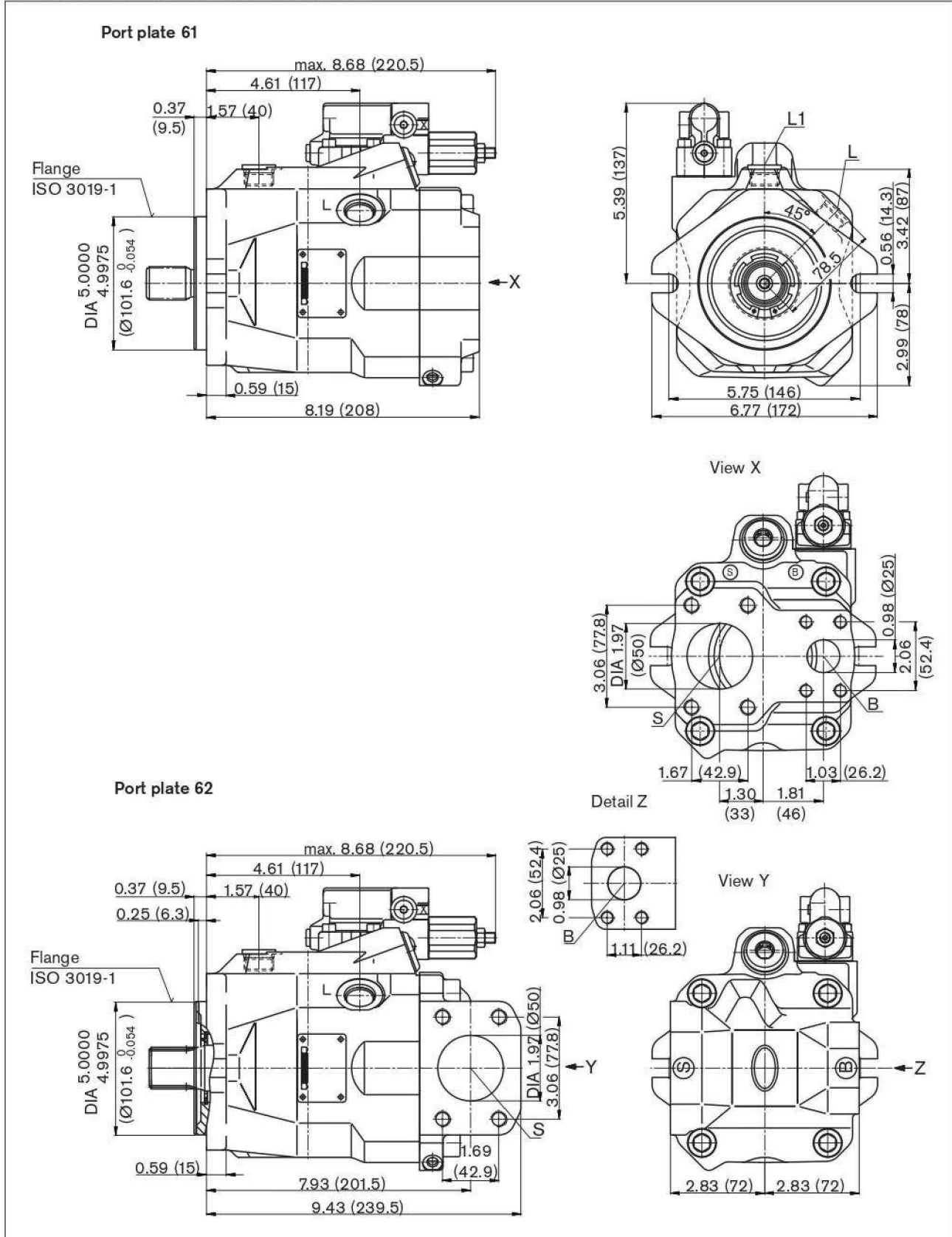
1) ER7.: 6.57 inches (167 mm) if using an intermediate plate pressure controller.

Dimensions, size 60

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



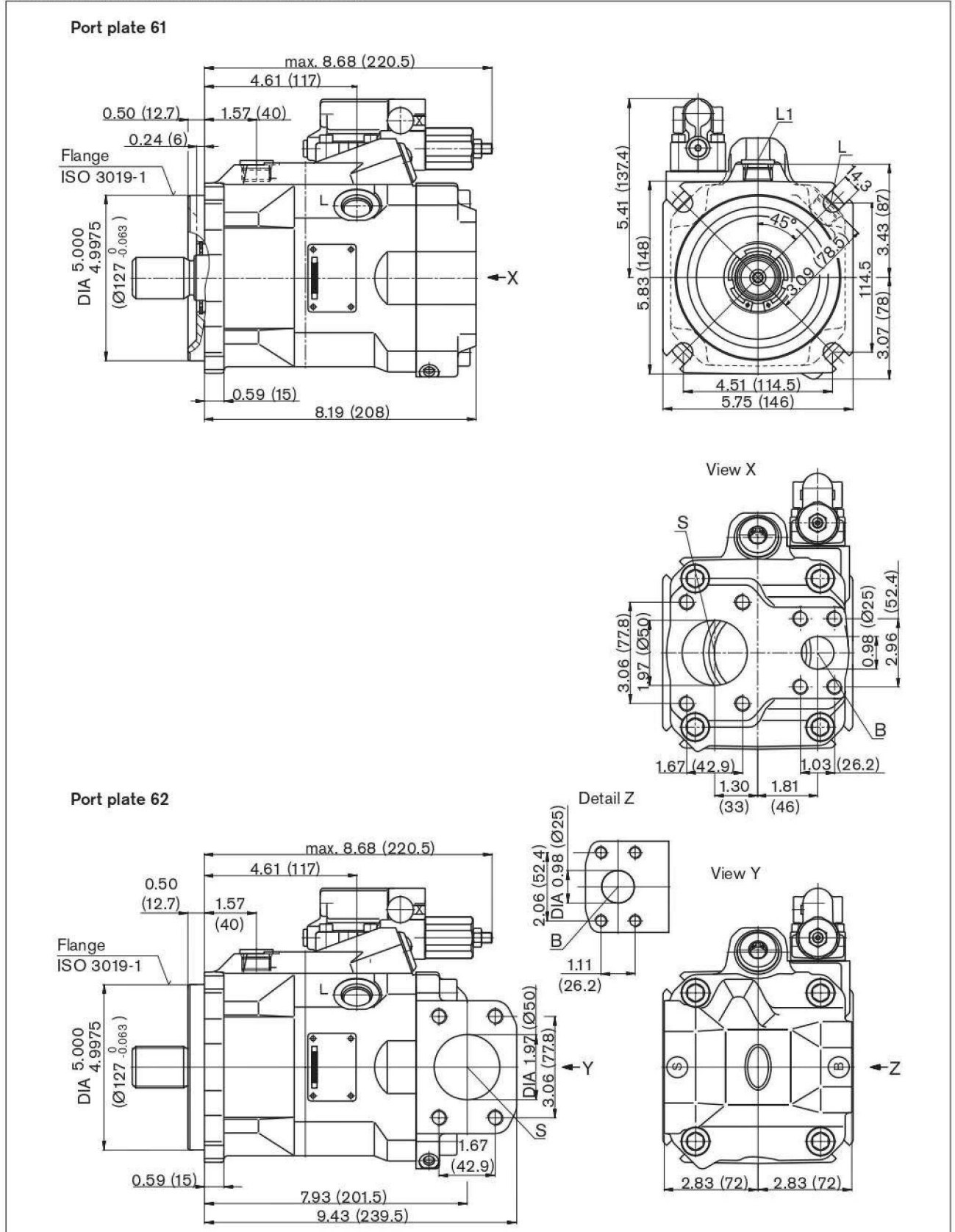
1) Dimensions of service line ports turned through 180° for counter-clockwise rotation

Dimensions, size 60

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

DR – Hydraulic pressure controller

Mounting flange D, clockwise rotation, series 52



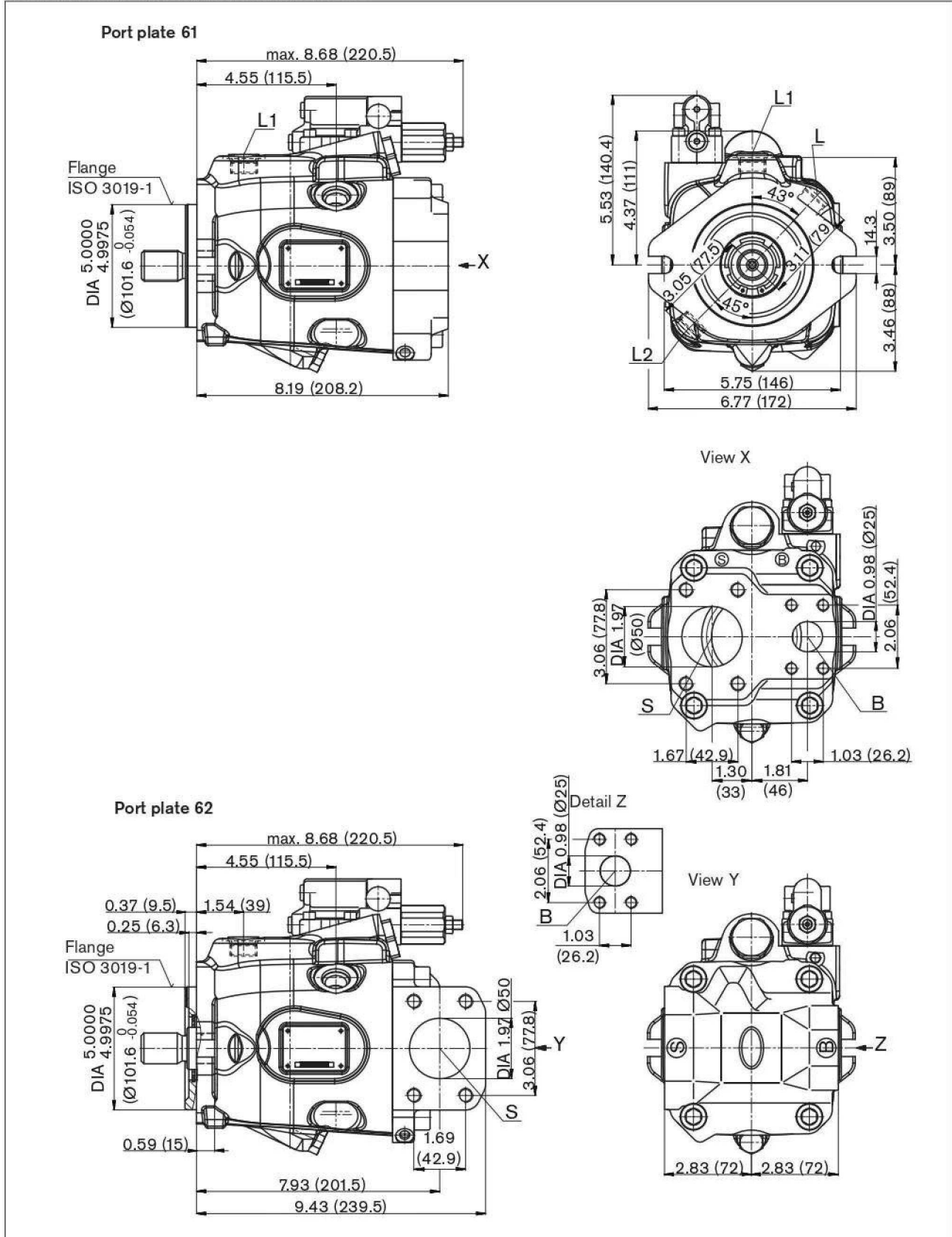
1) Dimensions of service line ports turned through 180° for counter-clockwise rotation

Dimensions, size 63¹⁾

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

DR – Hydraulic pressure controller

Mounting flange C, clockwise rotation, series 53



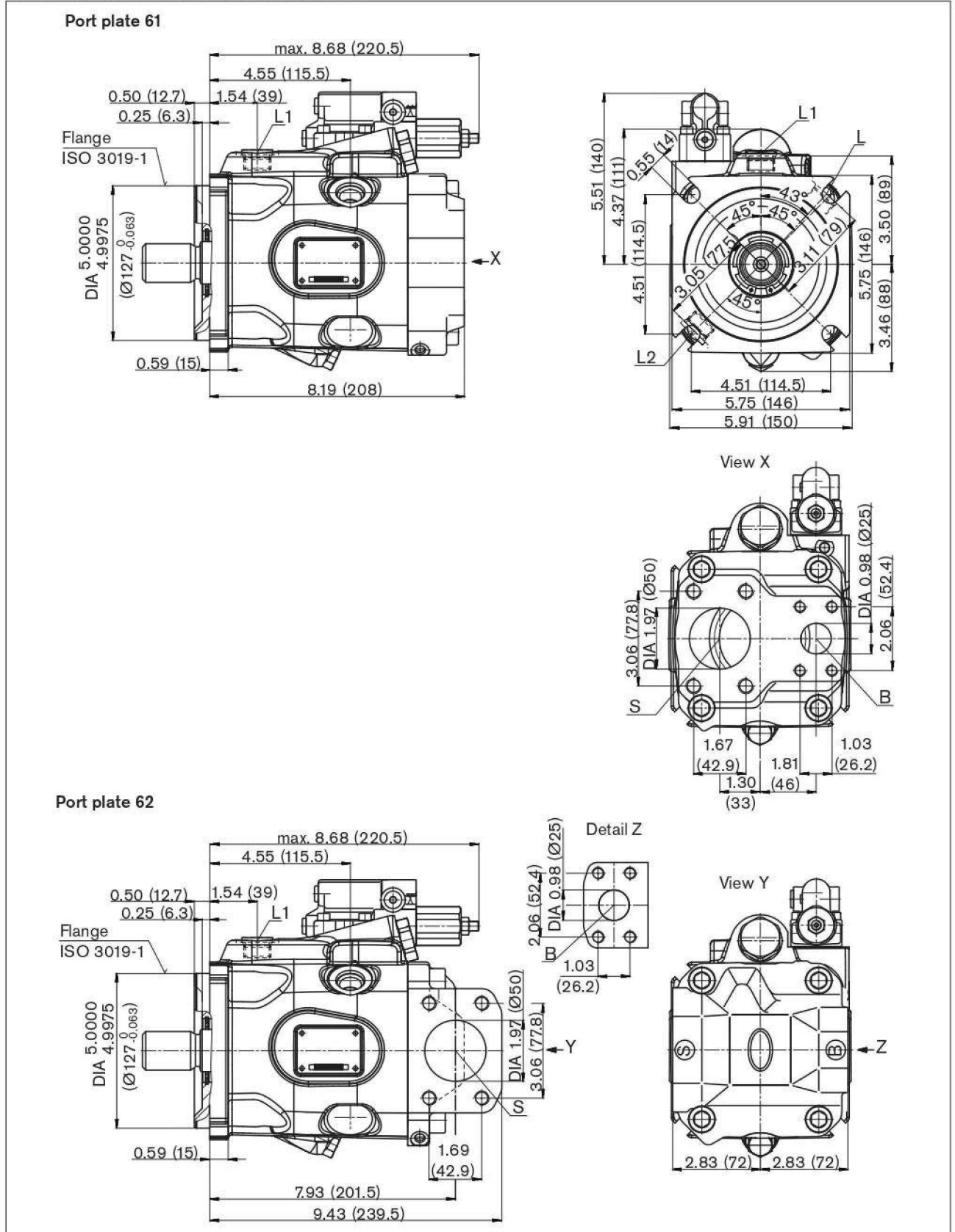
1) Dimensions of service line ports turned through 180° for counter-clockwise rotation

Dimensions, size 63¹⁾

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

DR – Hydraulic pressure controller

Mounting flange D, clockwise rotation, series 53

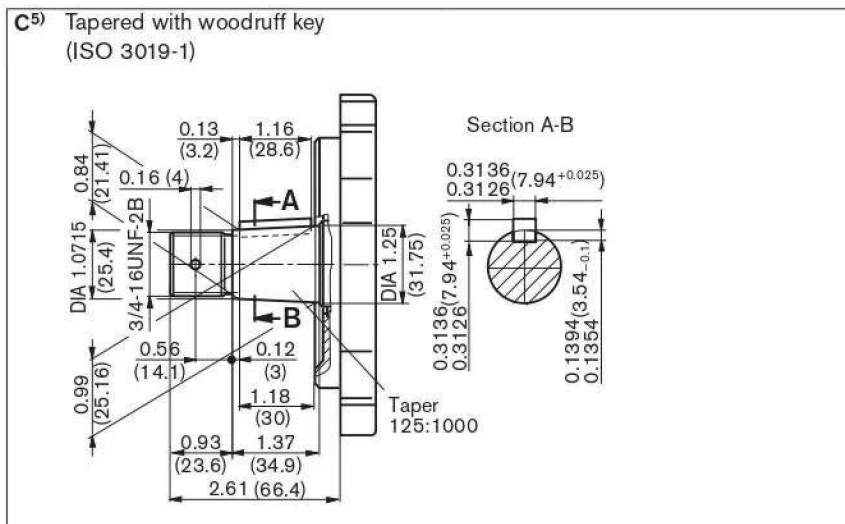
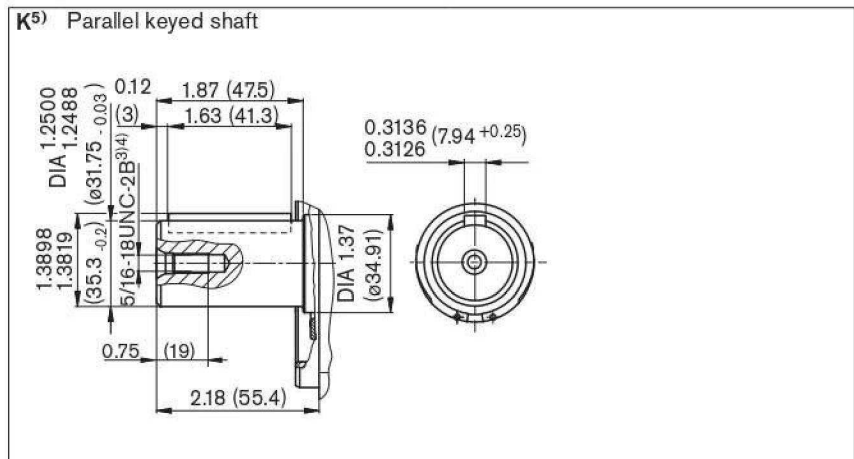
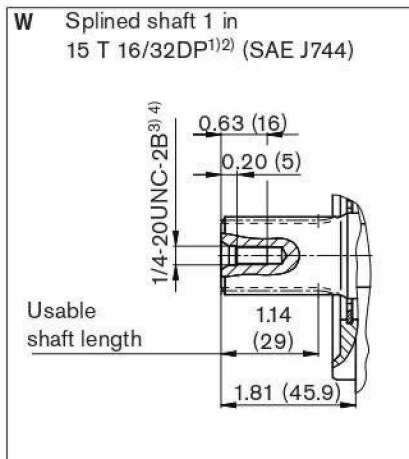
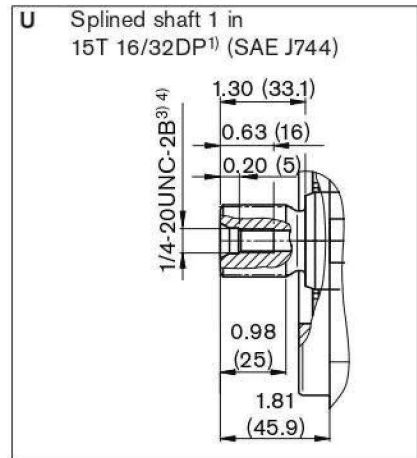
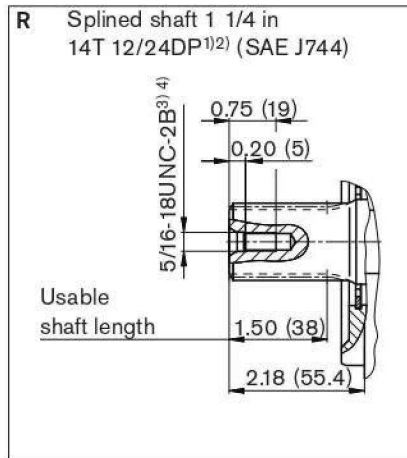
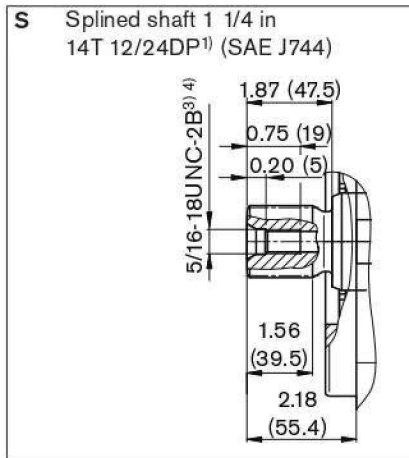


1) Dimensions of service line ports turned through 180° for counter-clockwise rotation

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)

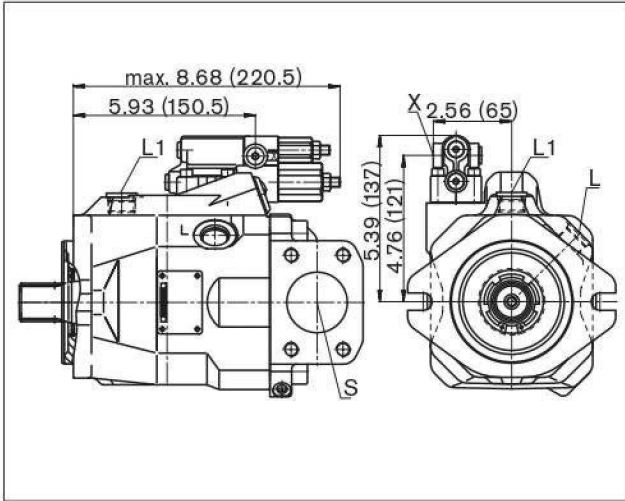
X = Plugged (in normal operation)

Dimensions, size 60 / 63

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

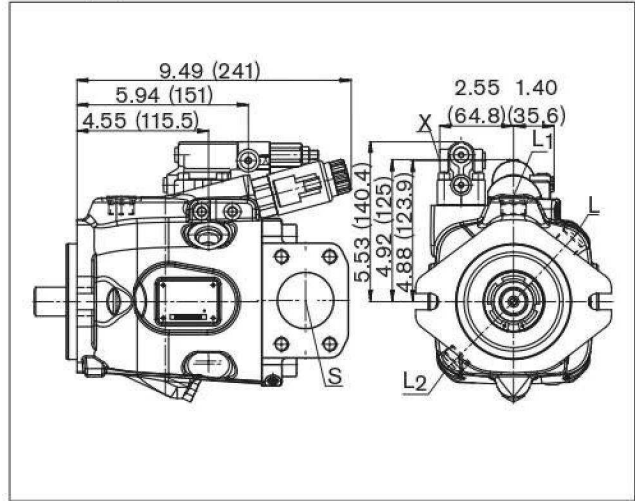
DRG

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



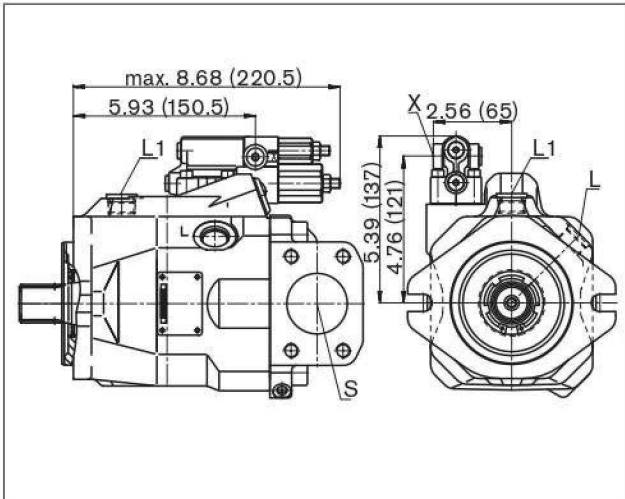
EP.D. / EK.D.

Electro-proportional control, **series 53**



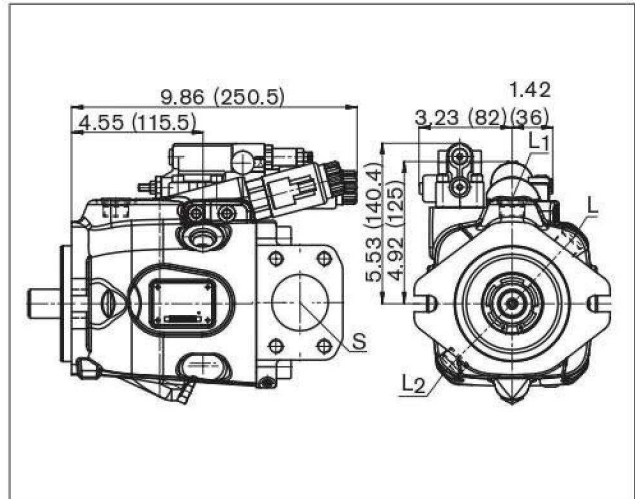
DFR / DFR1 (DRF/DRS)

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



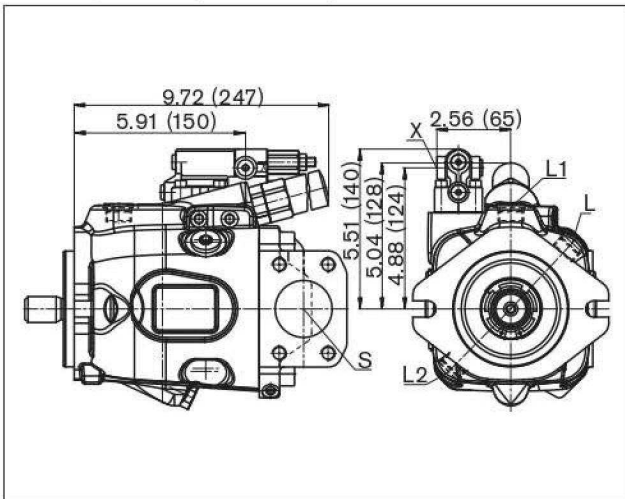
EP.ED / EK.ED

Electro-proportional control, **series 53**



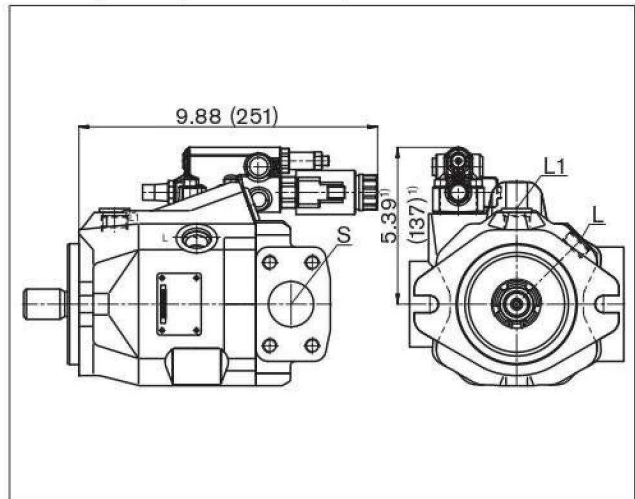
L.A.D.

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



ED7. / ER7.

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



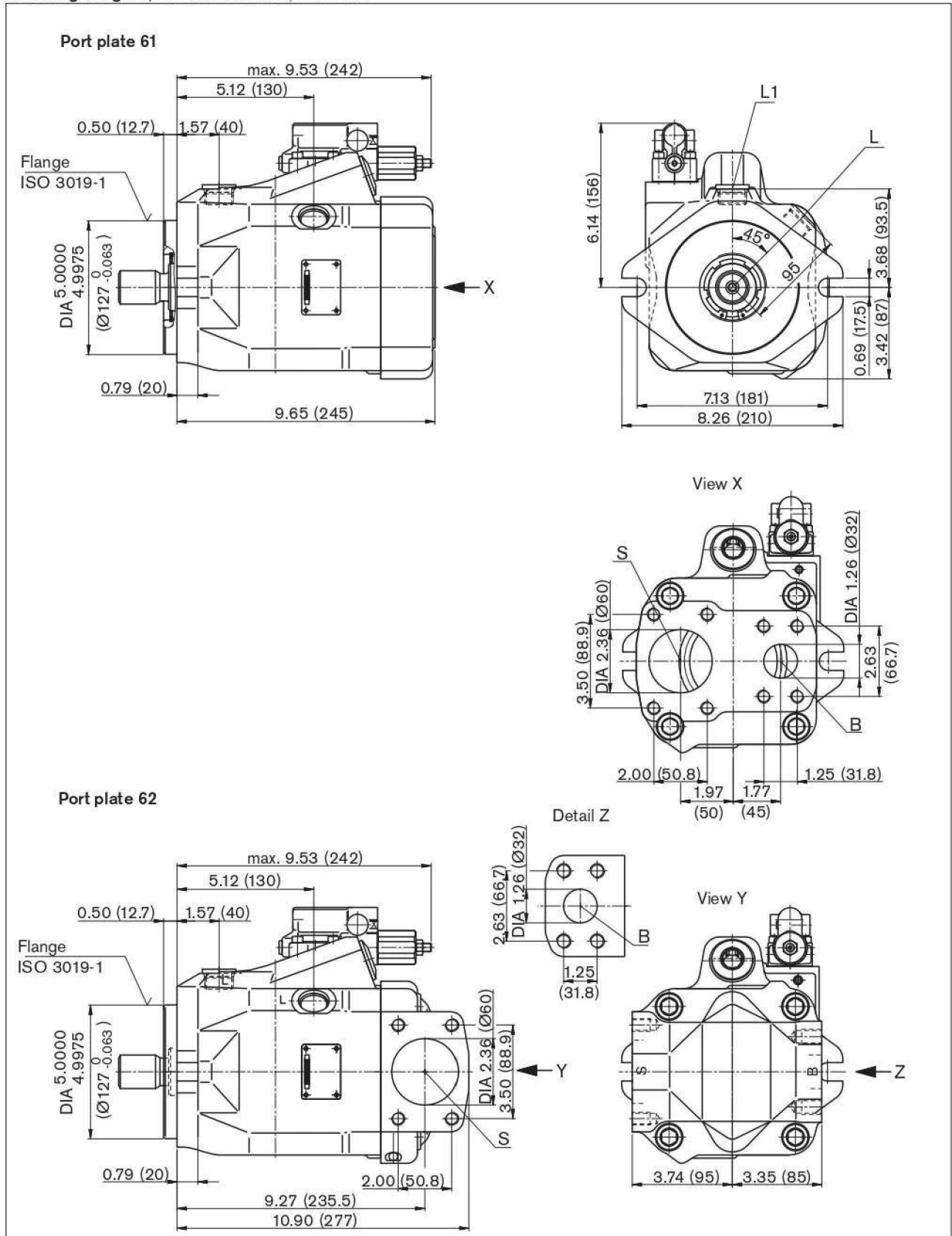
1) ER7.: 6.77 inches (172 mm) if using an intermediate plate pressure controller.

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



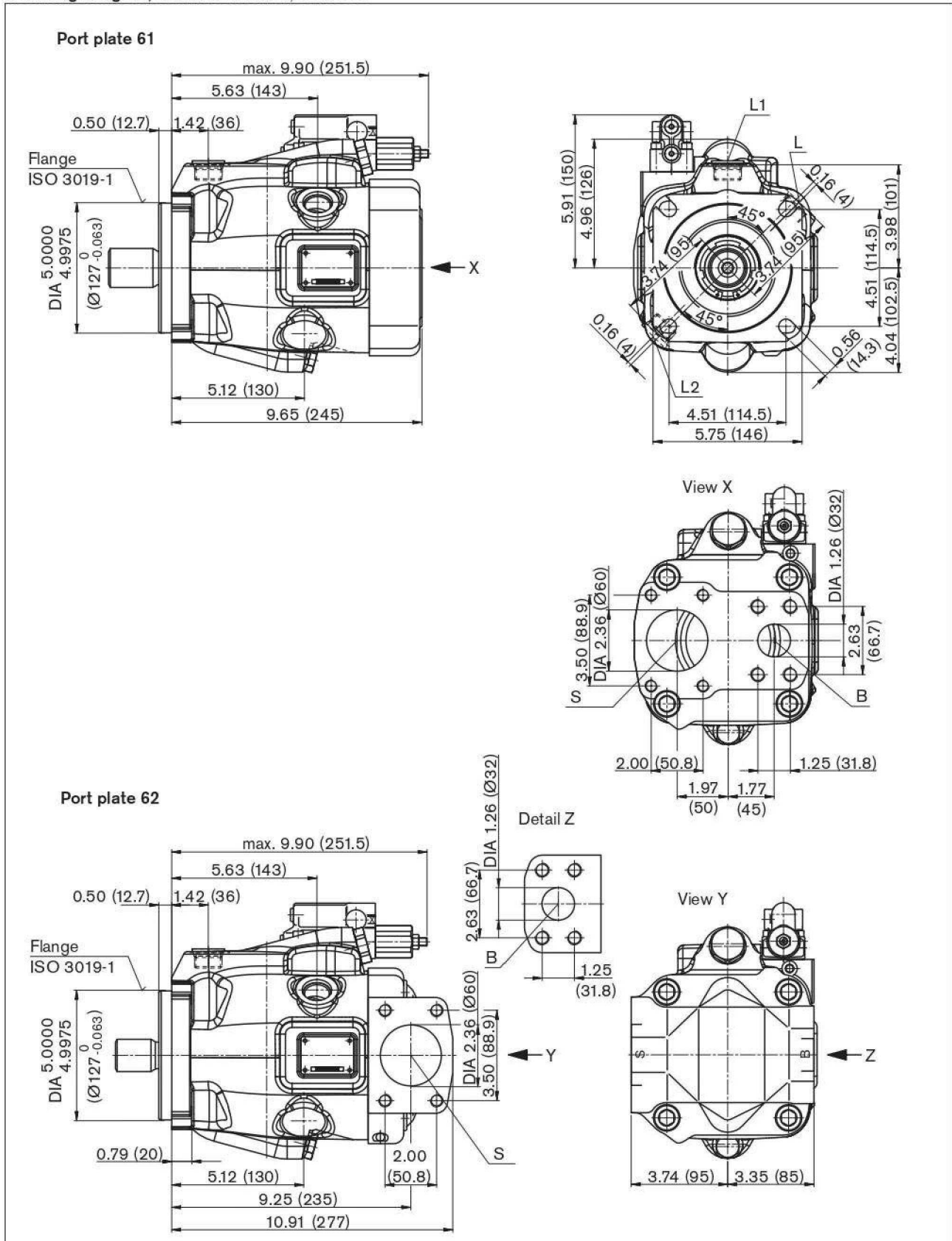
1) Dimensions of service line ports turned through 180° for counter-clockwise rotation
For details of connection options and drive shafts,

Dimensions, size 85¹⁾

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

DR – Hydraulic pressure controller

Mounting flange D, clockwise rotation, series 53

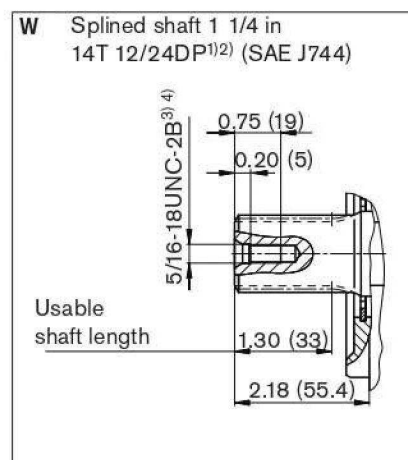
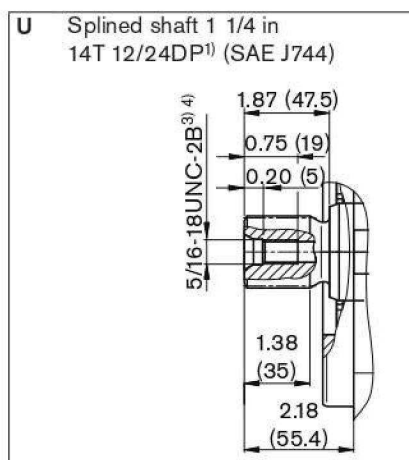
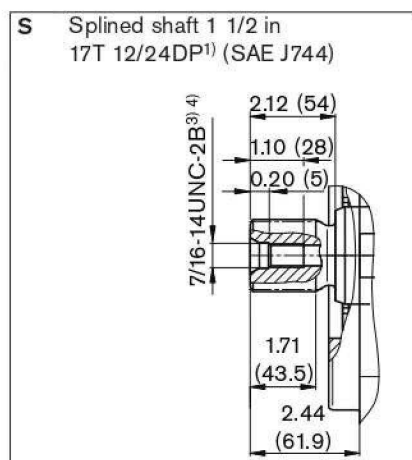


1) Dimensions of service line ports turned through 180° for counter-clockwise rotation
For details of connection options and drive shafts

Dimensions, size 85

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)] 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)

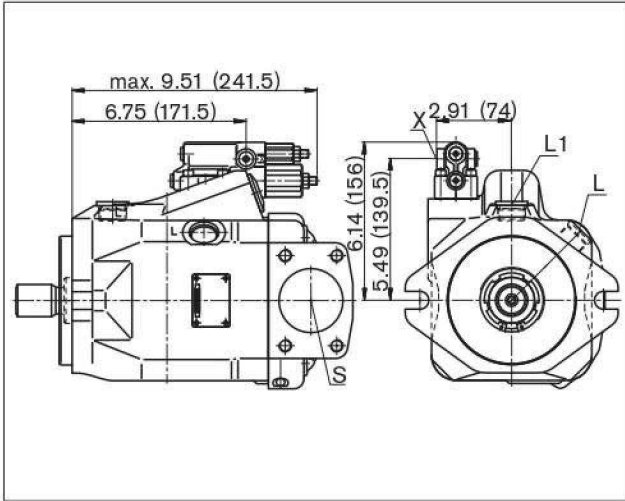
X = Plugged (in normal operation)

Dimensions, size 85, mounting flange C

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

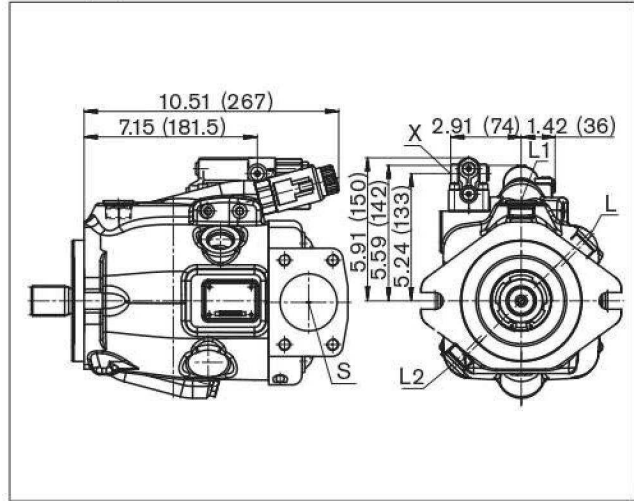
DRG

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



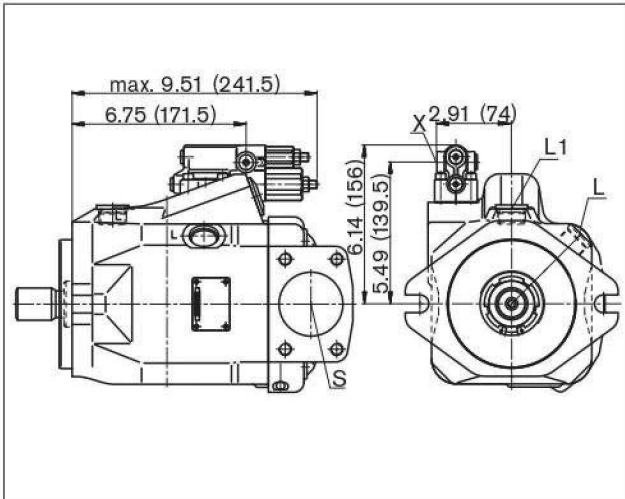
EP.D. / EK.D.

Electro-proportional control, **series 53**



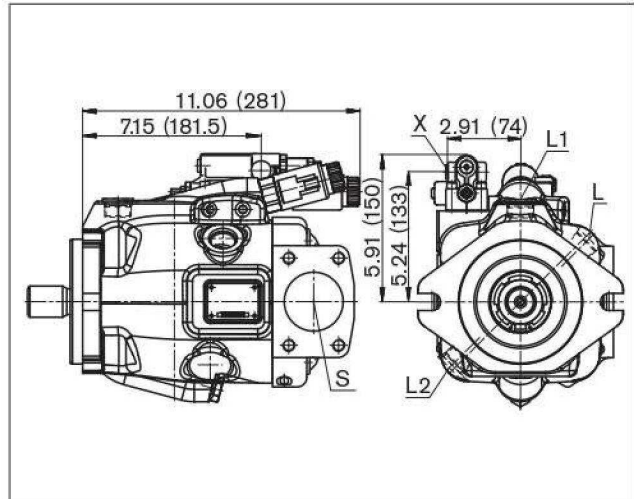
DFR / DFR1

Pressure and flow control, **series 52**



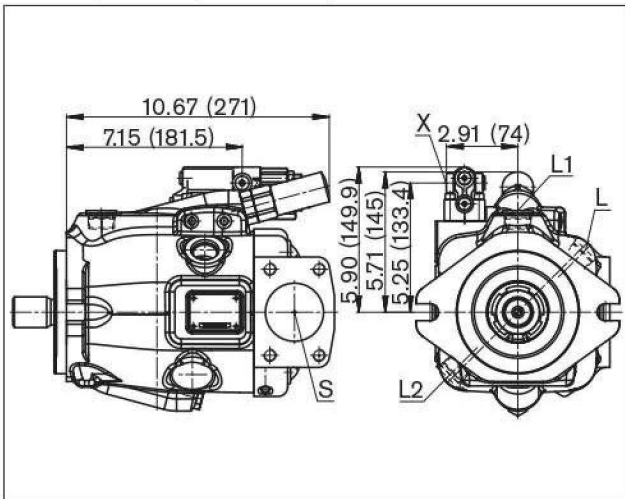
EP.ED / EK.ED

Electro-proportional control, **series 53**



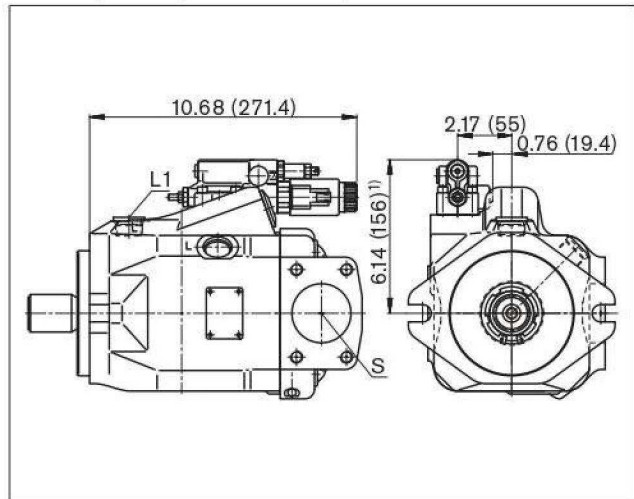
L.A.D.

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



ED../ ER..

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



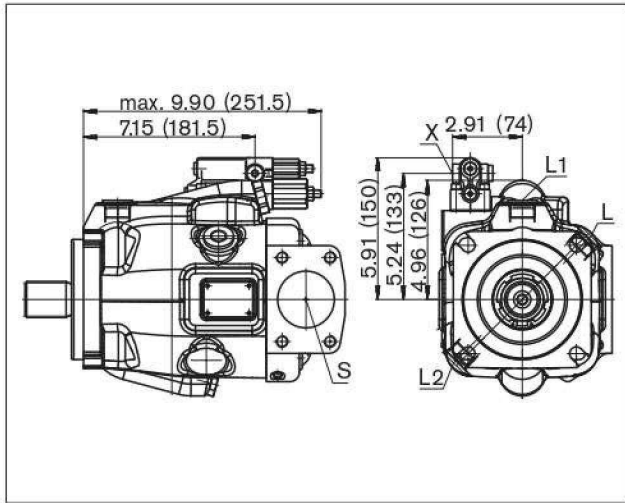
1) ER7.: 191 mm if using an intermediate plate pressure controller.

Dimensions, size 85, mounting flange D

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

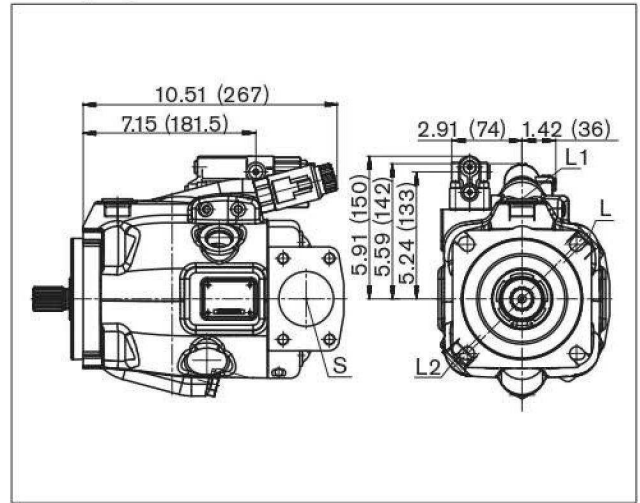
DRF/DRS

Pressure and flow control, **series 53**



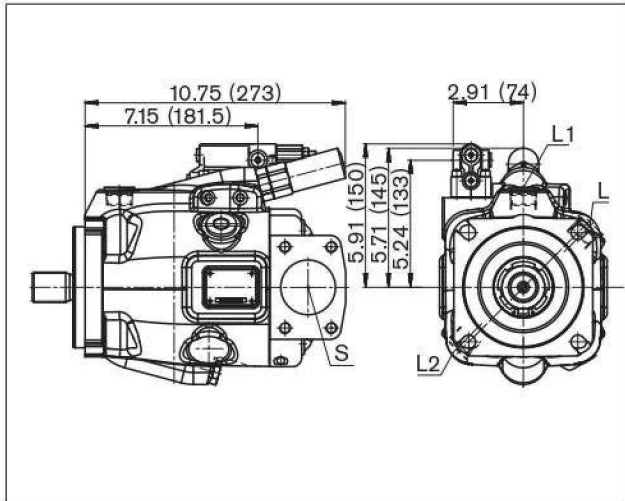
EP.D. / EK.D.

Electro-proportional control, **series 53**



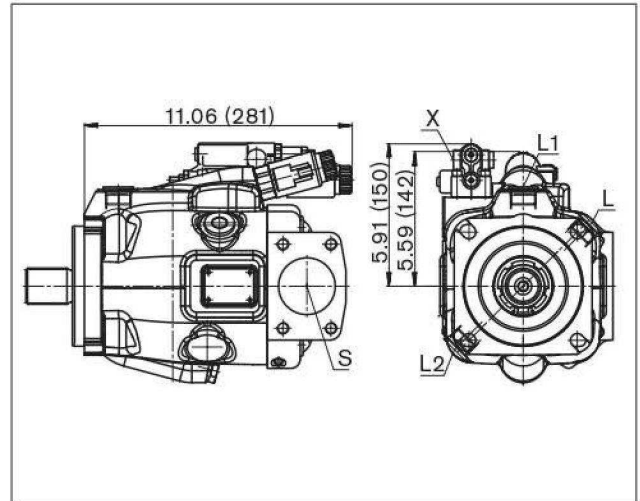
LA.D.

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



EP.ED / EK.ED

Electro-proportional control, **series 53**

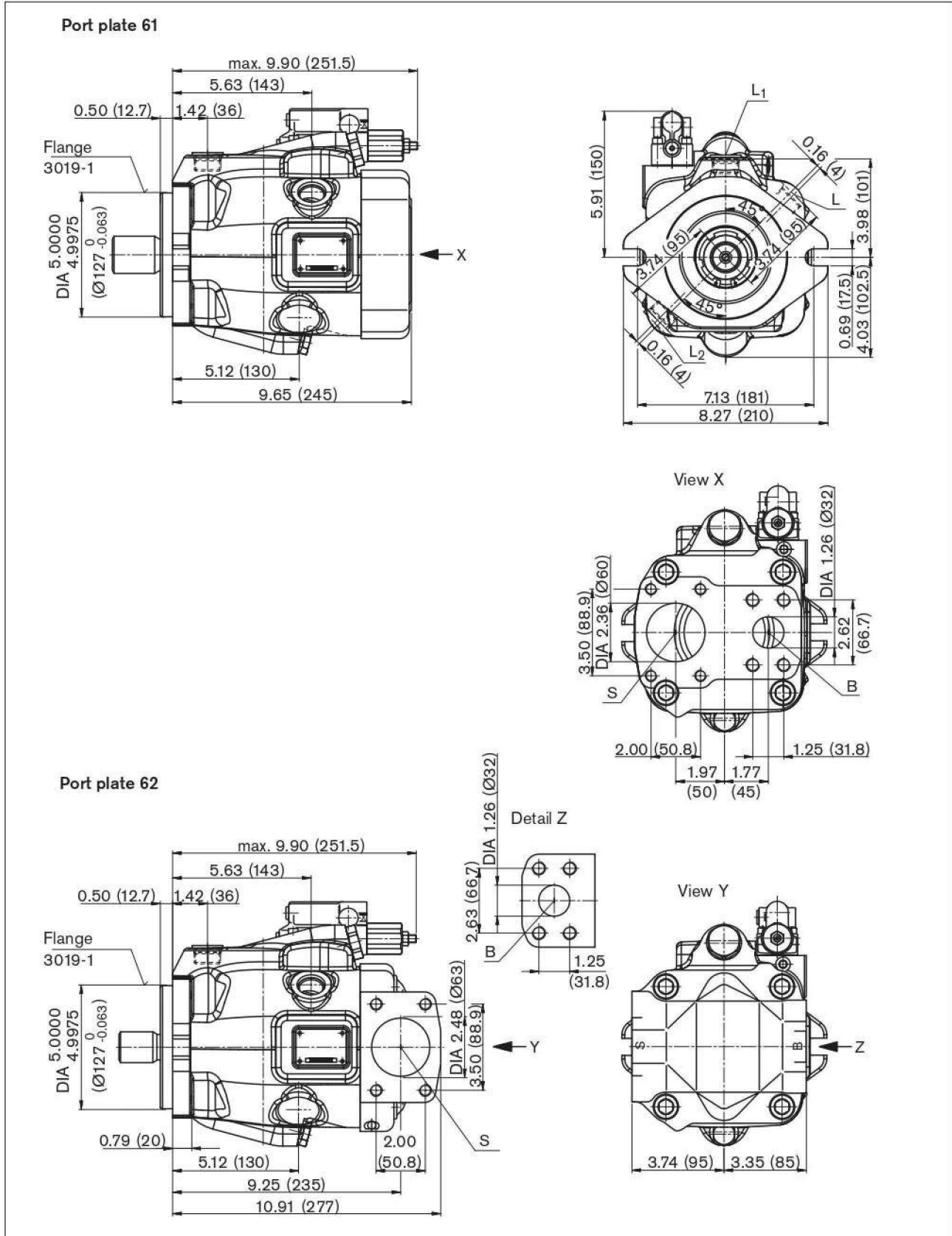


Dimensions, size 100¹⁾

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

DR – Hydraulic pressure controller

Mounting flange C, clockwise rotation, series 53

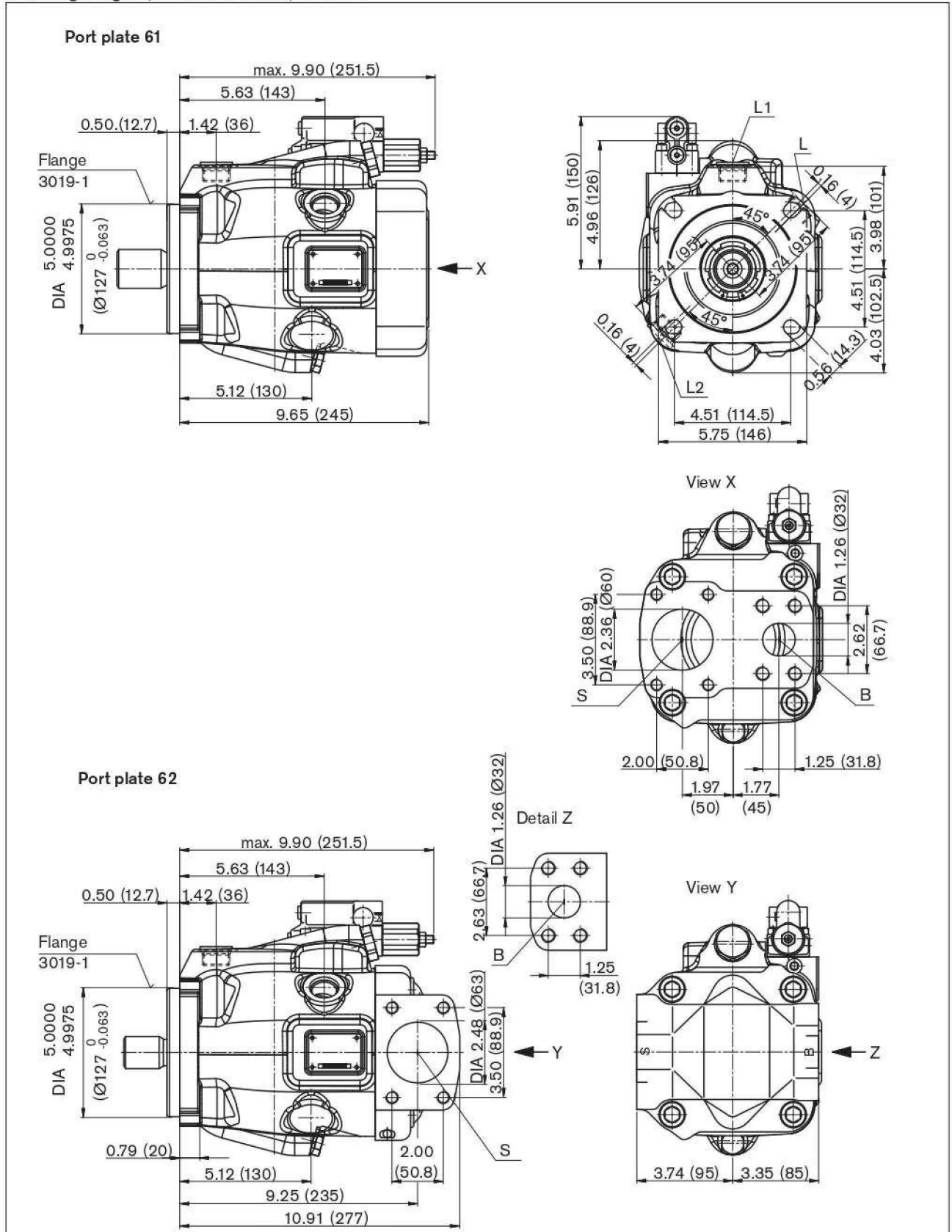


1) Dimensions of service line ports turned through 180° for counter-clockwise rotation
For details of connection options and drive shafts

Dimensions, size 100¹⁾

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

DR – Hydraulic pressure controller Mounting flange D, clockwise rotation, series 53



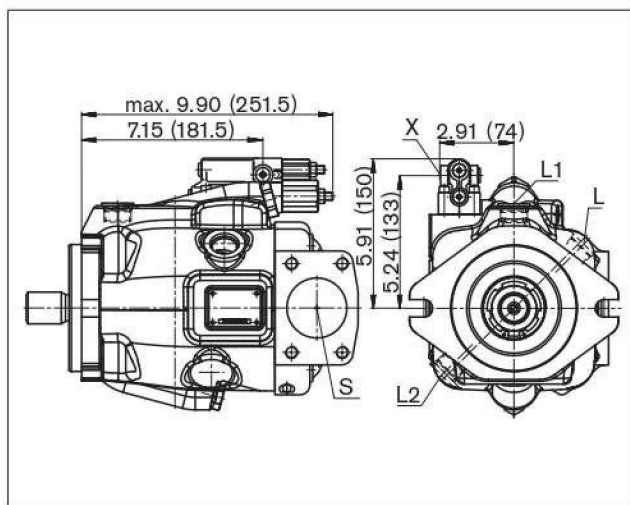
1) Dimensions of service line ports turned through 180° for counter-clockwise rotation
For details of connection options and drive shafts,

Dimensions, size 100

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

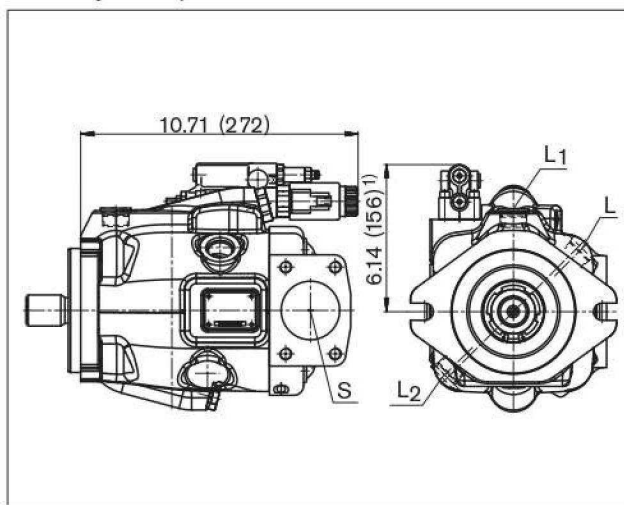
DRG

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



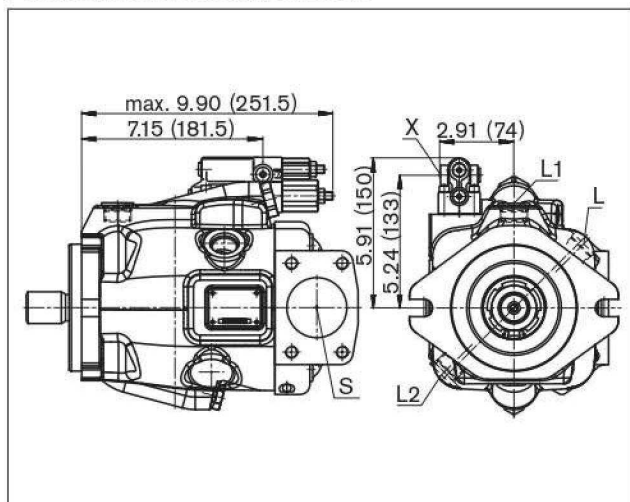
ED../ ER..

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



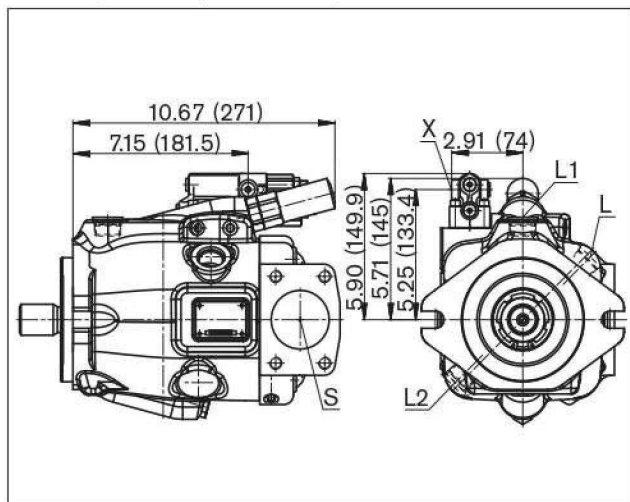
DRF/DRS

Pressure and flow control, **series 53**



L.A.D.

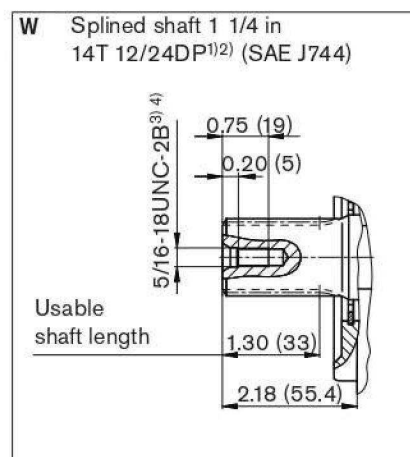
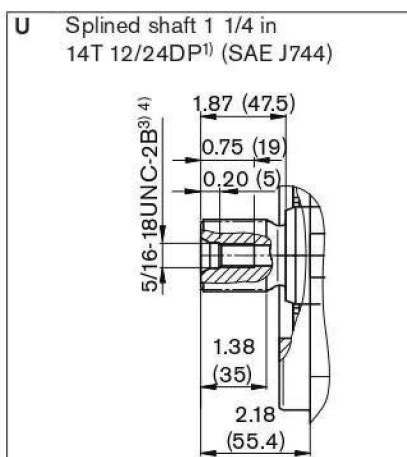
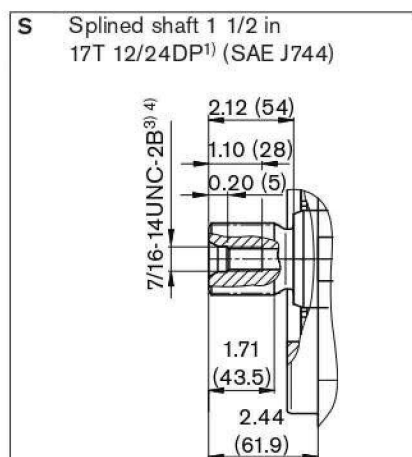
Pressure, flow and power control, **series 53**



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 ⁸⁾
X	Control pressure	ISO 11926 ⁶⁾	7/16-20UNF-2A; 0.45 (11.5) deep	4600 (315)	O

1) ANSI B92.1 a, 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)

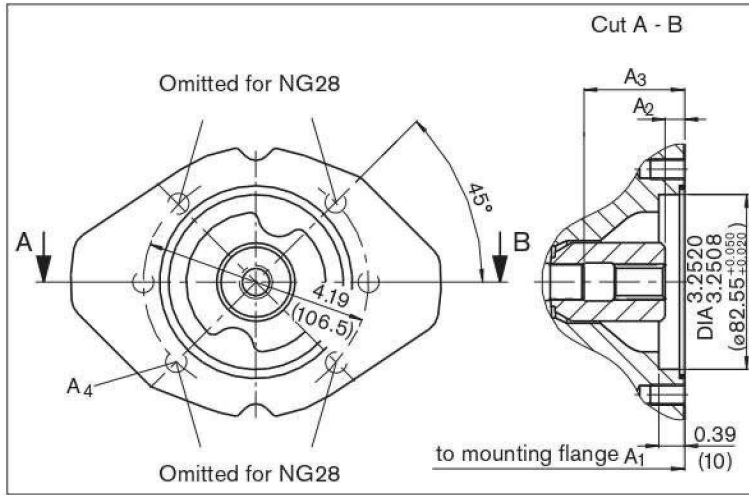
X = Plugged (in normal operation)

Dimensions through drive

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

K01 flange SAE J744 - 82-2 (A)

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

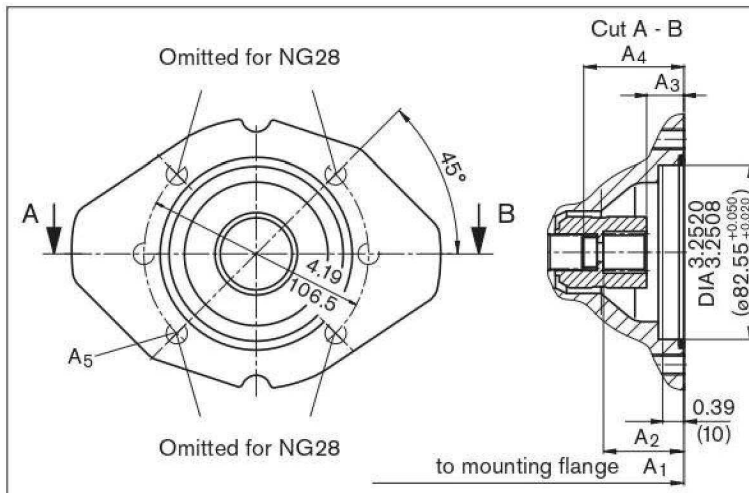


5/8 in 9T 16/32 DP¹⁾ (SAE J744 - 16-4 (A))

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

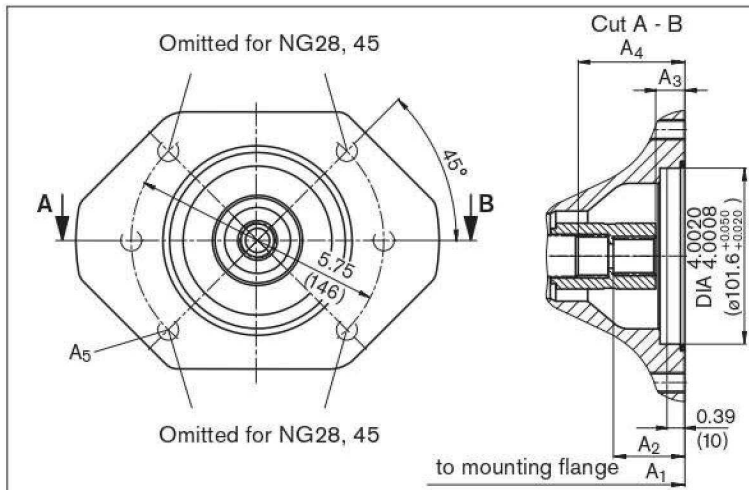


3/4 in 11T 16/32 DP¹⁾ (SAE J744 - 19-4 (A-B))

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

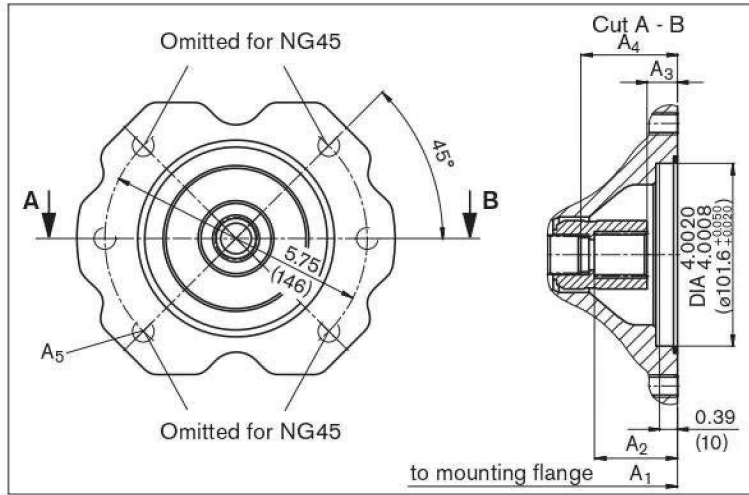
2) Thread according to DIN 13, observe the general instructions on FINAL PAGE must be observed.

Dimensions through drive

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

K04 flange SAE J744 - 101-2 (B)

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

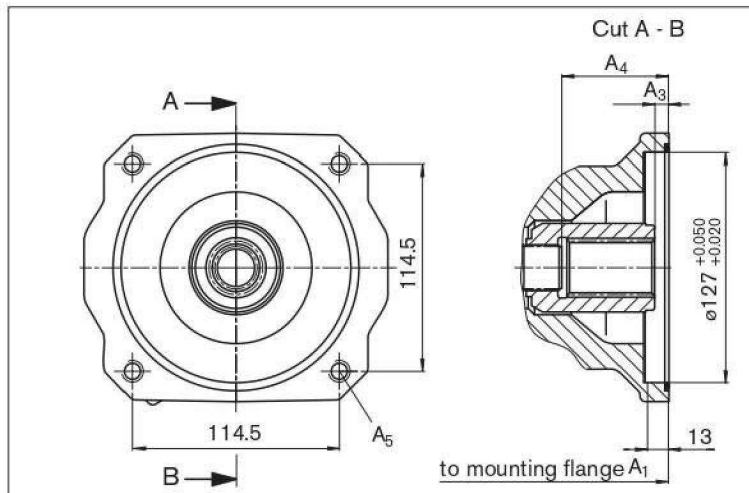


1 in 15T 16/32 DP¹⁾ (SAE J744 - 25-4 (B-B))

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

K15 flange SAE J744 - 127-4 (C)

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

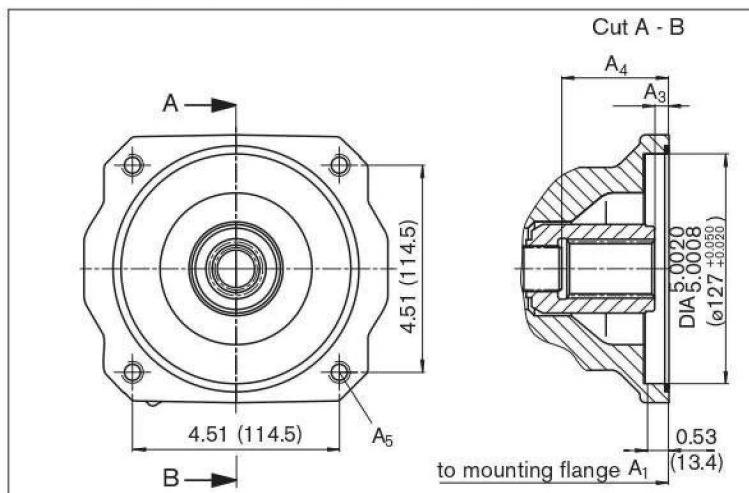


1 1/4 in 14T 12/24 DP¹⁾ (SAE J744 - 32-4 (C))

NG	A ₁	A ₂	A ₃	A ₄ ²⁾
60/ 63	10.03 (255)	0.31 (8)	2.32 (59)	M12 x 1.75, 0.63 (16) deep
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

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

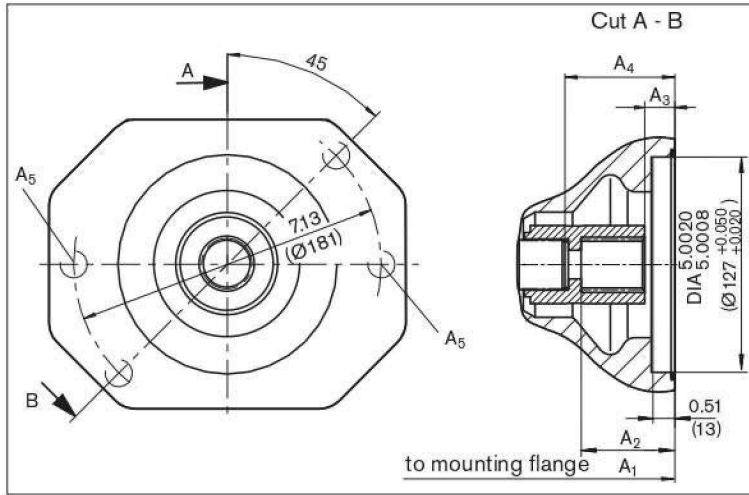
2) Thread according to DIN 13, observe the general instructions on FINAL PAGE must be observed.

Dimensions through drive

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

K07 flange SAE J744 - 127-2 (C)

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

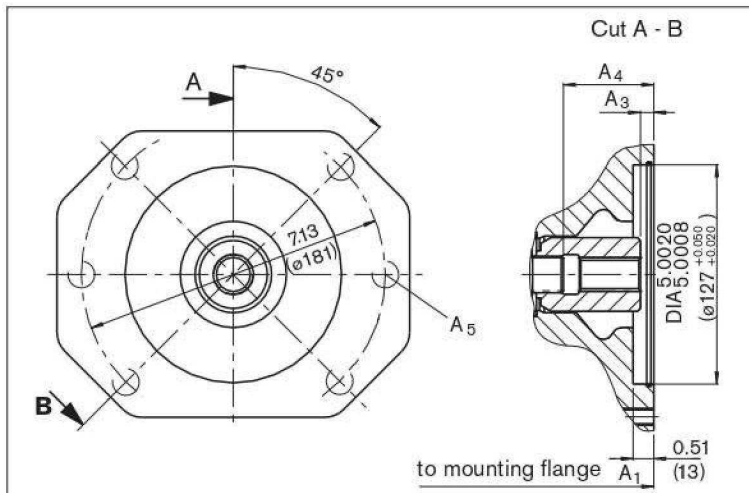


1 1/4 in 14T 12/24 DP¹⁾ (SAE J744 - 32-4 (C))

NG	A ₁	A ₂	A ₃	A ₄ ²⁾
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

K24 flange SAE J744 - 127-2 (C)

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



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

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.