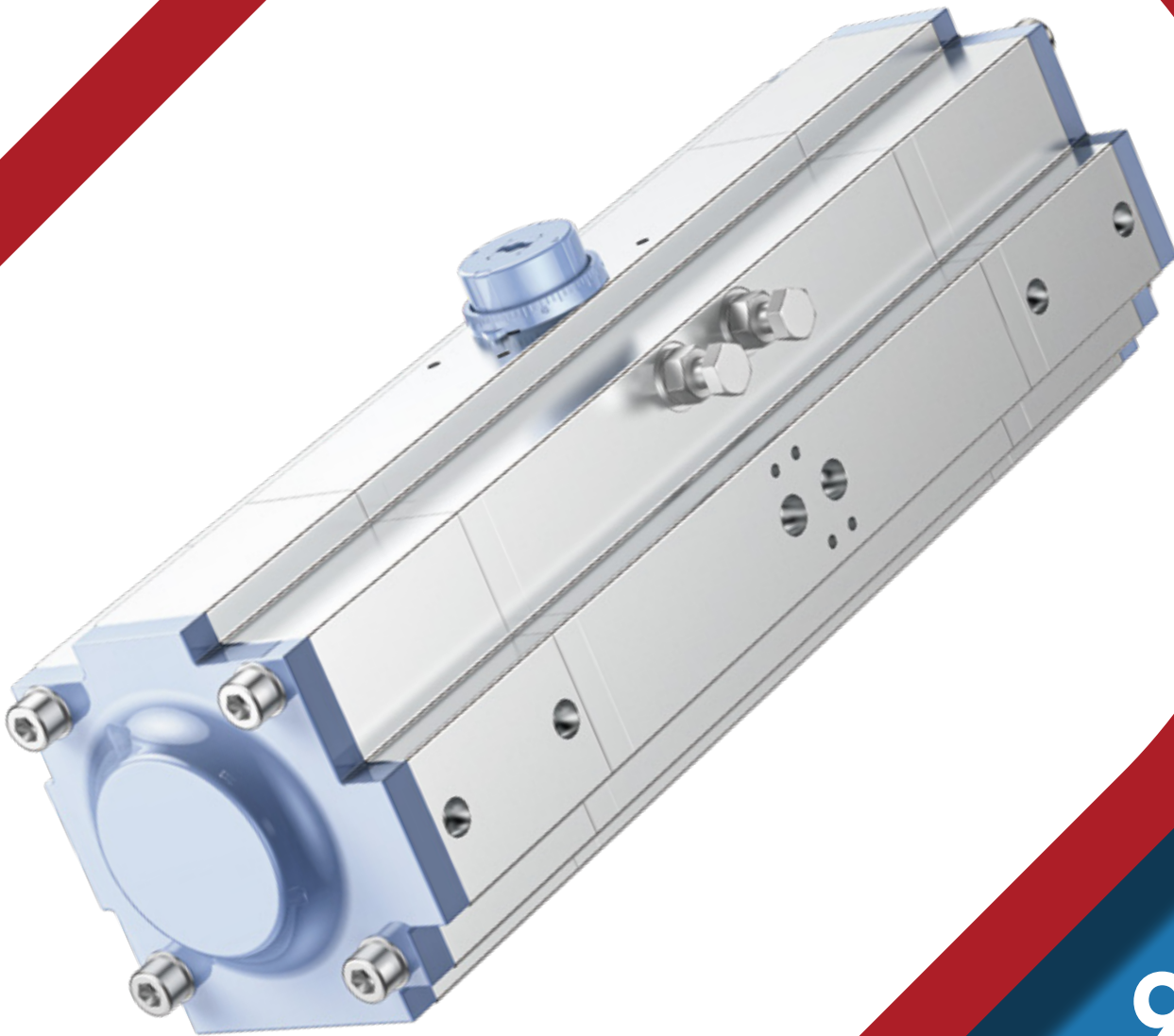




Pneumatic Actuator

3P-Series



90°



Pneumatic Pressure



Torque Output



Temperature Ranges

Company Profile

- Global Distribution Market
- Main Valve Accessories
- Thoughtful Service System
- Carefully Designed



PNEUMASTER has a global distribution market of valves accessories of controlling process valves. We focus on technology and supply reliable products manufactured to global customers.

With our manufacturing valve accessories, we keep developing our products and enhancing our products process, maintenance and aim at top-level quality.

Pneumaster's valve accessories are used in all industry area, including explosion-proof and water-proof application, as well as corrosion resistant environment. We provide the protection and automation to meet all kinds of applications.

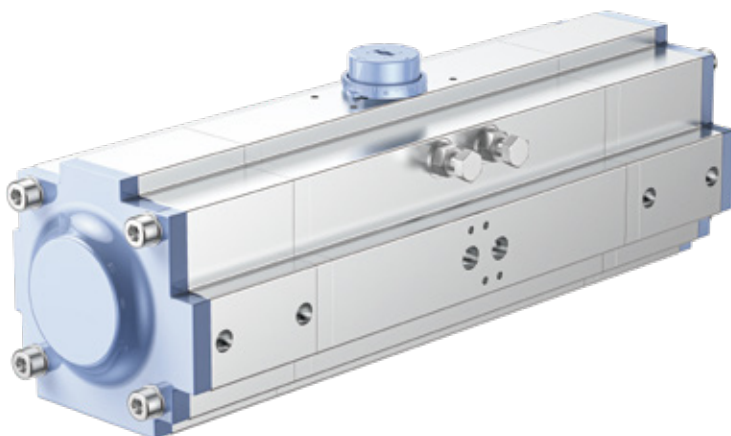




Product Range

- ① Valve Accessories
- ② Insulation System and Service

Pneumatic Actuator 3P Series



About the 3P Pneumatic Actuator

The 3P Series Pneumatic Actuator adopts a new type of Rack&Pinion transmission mechanism, which is a special specification of the actuator. It provides a three position operation mode of 0 °, X °, and 90 °, and the middle position is achieved by the mechanical limit generated by the movement of two auxiliary pistons. The middle position is adjustable, for example, an actuator with a 90 ° stroke can provide middle positions of 20 °, 30 °, 50 °, 70 °, etc.

Scope of Application.

Pneumatic Pressure

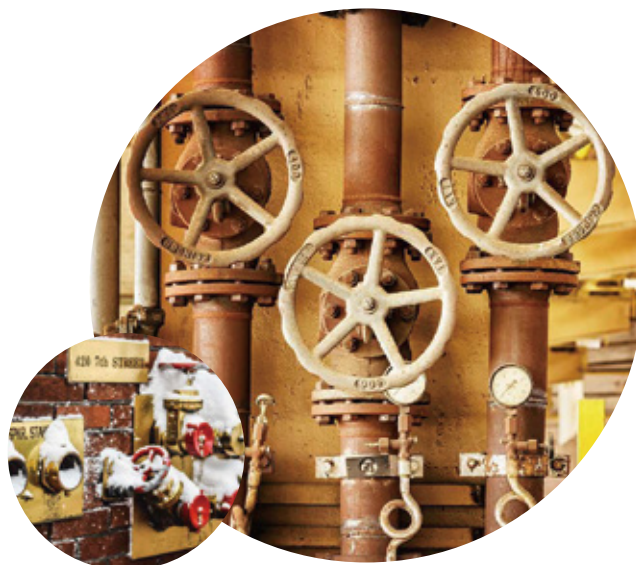
Up to 8 bar

Torque Output

Up to 12127 Nm

Temperature Ranges: Dry and Clean Air

- 18°C to 80°C with Normal Temperature(Nitrile Rubber Seal)
- 18°C to 150°C with High Temperature(Fluororubber Seal)
- 40°C to 80°C with Low Temperature(Silicone Rubber Seal)

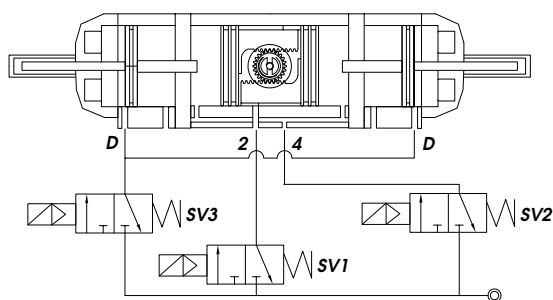


Working Status and Principle.

The operation of the Pneumaster 3P series three position actuator requires the design of an solenoid valve control circuit system to complete the operation.

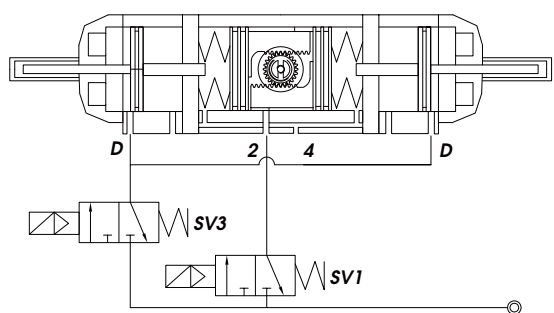
The control principle is as follows:

Double Acting Working Principle:



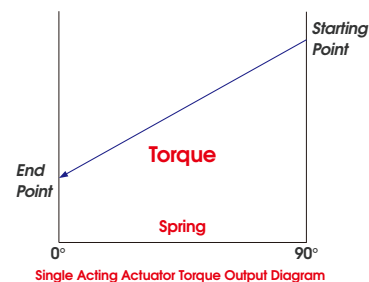
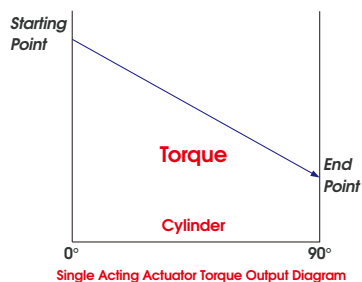
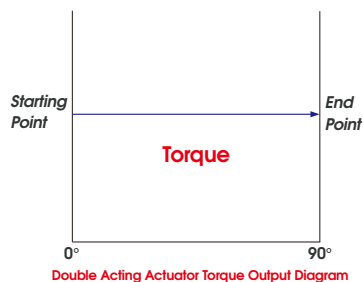
Angle	Solenoid Valve	Air Intake
0° - 90°	SV1	2
90° - 0°	SV2	4
0° - X°	First SV3 followed by SV1	D, 2
X° - 90°	SV1	2
90° - X°	SV3	D
X° - 0°	SV2	4

Single Acting Working Principle:



Angle	Solenoid Valve	Air Intake
0° - 90°	SV1	2
90° - 0°	Spring return 2 ports lose air	Spring return 2 ports lose air
0° - X°	First SV3 followed by SV1	D, 2
X° - 90°	SV1	2
90° - X°	First SV1 followed by SV3	D, 2
X° - 0°	Spring return 2 ports lose air	Spring return 2 ports lose air

Torque - Chart Torque Output



Double Acting Actuator Torque (N.m)

Air Source Pressure (bar)									
Model	3 bar	3.5 bar	4 bar	4.5 bar	5 bar	5.5 bar	6 bar	7 bar	8 bar
BDA 050 3P	10.1	11.9	13.8	15.5	17.4	19.2	21.0	24.6	28.2
BDA 065 3P	20.6	24.3	27.8	31.5	35.2	38.9	42.6	49.9	57.2
BDA 075 3P	31.9	37.6	43.4	49.0	54.7	60.4	66.2	77.5	88.9
BDA 085 3P	46.9	55.2	63.6	72.0	80.3	88.7	97.1	113.8	130.6
BDA 095 3P	65.9	77.6	89.3	101.1	112.9	124.6	136.4	159.9	183.4
BDA 110 3P	86.6	101.9	117.0	132.2	147.4	162.6	177.8	208.2	238.5
BDA 125 3P	154.7	181.9	208.9	236.1	263.3	290.4	317.6	371.8	426.1
BDA 140 3P	230.3	270.0	309.6	349.4	389.1	428.7	468.4	547.9	627.2
BDA 160 3P	316.8	372.4	428.0	483.5	539.1	594.7	650.3	761.5	872.7
BDA 190 3P	502.5	589.1	675.7	762.3	849.0	935.7	1022.3	1195.5	1368.8
BDA 210 3P	701.5	822.5	943.4	1064.4	1185.3	1306.2	1427.2	1669.1	1911.0
BDA 240 3P	1088.0	1275.6	1463.2	1650.8	1838.4	2026.0	2213.6	2588.8	2964.0
BDA 270 3P	1530.1	1793.9	2057.7	2321.5	2585.2	2849.1	3112.9	3640.5	4168.1
BDA 300 3P	1968.5	2307.9	2647.3	2986.7	3326.1	3665.5	4004.9	4683.6	5362.5
BDA 350 3P	2921.1	3425.2	3928.9	4432.5	4936.2	5440.0	5943.7	6951.0	7958.5
BDA 400 3P	4451.7	5219.3	5986.8	6754.4	7521.9	8289.4	9057.0	10592.1	12127.1

Single Acting Actuator Torque (N.m)-1

Air Source Pressure (bar)																			Spring Stroke	
Model	3 bar		3.5 bar		4 bar		4.5 bar		5 bar		5.5 bar		6 bar		7 bar		8 bar			
	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°
BSR 050 3P S05	6.7	5.1	8.5	7.0	10.4	8.7	12.1	10.6	14.0	12.4									3.4	5.0
BSR 050 3P S06	6.0	4.2	7.9	5.9	9.7	7.8	11.4	9.6	13.3	11.3	15.1	13.2							4.1	6.0
BSR 050 3P S07	5.3	3.1	7.2	4.9	9.0	6.8	10.8	8.5	12.6	10.4	14.5	12.2	16.2	14.0					4.8	7.0
BSR 050 3P S08			6.5	4.0	8.3	5.7	10.1	7.6	11.9	9.4	13.8	11.2	15.5	13.0	19.2	16.6			5.4	8.0
BSR 050 3P S09					7.7	4.8	9.4	6.6	11.3	8.3	13.1	10.2	14.8	12.0	18.5	15.6	22.1	19.2	6.1	9.0
BSR 050 3P S10							8.7	5.5	10.6	7.4	12.4	9.2	14.2	11.0	17.8	14.6	21.4	18.2	6.8	10.0
BSR 050 3P S11									9.9	6.4	11.7	8.1	13.5	10.0	17.2	13.6	20.8	17.3	7.5	11.0
BSR 050 3P S12											11.1	7.2	12.8	9.0	16.5	12.6	20.1	16.2	8.1	12.0
BSR 065 3P S05	12.1	7.9	15.8	11.5	19.4	15.1	23.1	18.8	26.8	22.5									8.4	12.7
BSR 065 3P S06	10.4	5.3	14.1	8.9	17.8	12.6	21.4	16.3	25.1	20.0	28.8	23.7							10.1	15.2
BSR 065 3P S07	8.7	2.7	12.4	6.4	16.1	10.1	19.8	13.8	23.4	17.5	27.1	21.1	30.7	24.7					11.8	17.8
BSR 065 3P S08			10.7	3.9	14.4	7.6	18.0	11.3	21.7	14.9	25.4	18.5	29.1	22.2	36.4	29.6			13.5	20.4
BSR 065 3P S09					12.7	5.0	16.4	8.7	20.1	12.3	23.7	16.0	27.4	19.7	34.7	27.1	42.1	34.3	15.2	22.9
BSR 065 3P S10							14.6	6.1	18.3	9.8	22.0	13.5	25.7	17.2	33.0	24.4	40.4	31.8	16.9	25.4
BSR 065 3P S11									16.7	7.3	20.4	11.0	24.0	14.6	31.3	21.9	38.7	29.3	18.5	27.9
BSR 065 3P S12											18.6	8.4	22.3	12.0	29.7	19.4	37.0	26.8	20.3	30.5
BSR 075 3P S05	21.5	15.6	27.3	21.2	33.0	27.0	38.6	32.7	44.3	38.4									10.4	16.4
BSR 075 3P S06	19.5	12.3	25.1	18.0	30.8	23.7	36.6	29.4	42.3	35.1	47.9	40.8							12.4	19.6

Single Acting Actuator Torque (N.m)-2

Air Source Pressure (bar)																			Spring Stroke	
Model	3 bar		3.5 bar		4 bar		4.5 bar		5 bar		5.5 bar		6 bar		7 bar		8 bar			
	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°
BSR 075 3P S07	17.4	9.0	23.1	14.7	28.8	20.5	34.5	26.1	40.2	31.8	45.9	37.5	51.6	43.3					14.6	22.9
BSR 075 3P S08			21.0	11.4	26.7	17.2	32.4	22.9	38.1	28.5	43.8	34.2	49.5	40.0	60.9	51.4			16.6	26.2
BSR 075 3P S09					24.6	13.9	30.4	19.6	36.0	25.3	41.7	31.0	47.4	36.7	58.9	48.1	70.2	59.5	18.7	29.4
BSR 075 3P S10							28.2	16.3	34.0	22.0	39.7	27.7	45.4	33.5	56.7	44.8	68.2	56.3	20.8	32.7
BSR 075 3P S11									31.9	18.7	37.5	24.4	43.3	30.2	54.7	41.5	66.1	53.0	22.8	36.0
BSR 075 3P S12											35.5	21.1	41.2	26.9	52.6	38.3	64.0	49.7	24.9	39.2
BSR 085 3P S05	30.8	21.6	39.2	30.0	47.5	38.3	55.9	46.7	64.3	55.1									16.1	25.3
BSR 085 3P S06	27.5	16.5	36.0	24.9	44.3	33.3	52.7	41.6	61.0	50.0	69.5	58.4							19.3	30.4
BSR 085 3P S07	24.3	11.4	32.8	19.9	41.1	28.2	49.5	36.6	57.8	44.9	66.3	53.4	74.6	61.7					22.5	35.4
BSR 085 3P S08			29.5	14.7	37.9	23.2	46.3	31.5	54.6	39.9	63.0	48.2	71.4	56.6	88.1	73.3			25.7	40.4
BSR 085 3P S09					34.7	18.1	43.1	26.5	51.4	34.8	59.8	43.2	68.2	51.6	84.9	68.3	101.7	85.1	28.9	45.5
BSR 085 3P S10							39.9	21.4	48.2	29.8	56.6	38.1	65.0	46.6	81.7	63.2	98.5	80.0	32.1	50.5
BSR 085 3P S11									45.0	24.7	53.4	33.1	61.7	41.4	78.5	58.2	95.2	74.9	35.3	55.6
BSR 085 3P S12											50.1	28.0	58.5	36.4	75.3	53.2	92.0	69.8	38.5	60.6
BSR 095 3P S05	44.4	32.0	56.2	43.7	67.9	55.6	79.6	67.3	91.5	79.1									21.4	33.9
BSR 095 3P S06	40.2	25.3	51.9	37.1	63.6	48.8	75.4	60.5	87.1	72.3	98.9	84.1							25.7	40.5
BSR 095 3P S07	35.8	18.5	47.6	30.3	59.4	42.0	71.1	53.7	82.8	65.6	94.6	77.3	106.4	89.0					30.0	47.3
BSR 095 3P S08			43.3	23.5	55.1	35.3	66.8	47.0	78.6	58.8	90.3	70.5	102.0	82.3	125.6	105.8			34.3	54.1
BSR 095 3P S09					50.7	28.5	62.6	40.3	74.3	52.0	86.0	63.8	97.8	75.6	121.3	99.0	144.8	122.6	38.6	60.8
BSR 095 3P S10							58.2	33.5	70.0	45.3	81.8	57.0	93.5	68.8	117.0	92.2	140.6	115.8	42.9	67.6
BSR 095 3P S11									65.7	38.5	77.5	50.2	89.2	62.0	112.7	85.6	136.3	109.0	47.1	74.4
BSR 095 3P S12											73.1	43.5	85.0	55.3	108.4	78.8	131.9	102.2	51.4	81.1
BSR 110 3P S05	58.9	42.1	74.1	57.3	89.2	72.6	104.5	87.7	119.7	102.9									27.7	44.5
BSR 110 3P S06	53.4	33.3	68.5	48.4	83.7	63.6	98.9	78.9	114.1	94.0	129.3	109.2							33.3	53.4
BSR 110 3P S07	47.8	24.3	63.0	39.6	78.2	54.7	93.3	69.9	108.5	85.2	123.8	100.3	138.9	115.5					38.8	62.3
BSR 110 3P S08			57.4	30.7	72.7	45.9	87.8	61.0	103.0	76.2	118.2	91.5	133.4	106.6	163.8	137.1			44.4	71.2
BSR 110 3P S09					67.0	37.0	82.3	52.2	97.5	67.3	112.6	82.5	127.8	97.8	158.2	128.1	188.7	158.5	50.0	80.0
BSR 110 3P S10							76.7	43.3	92.0	58.5	107.1	73.6	122.3	88.9	152.7	119.2	183.0	149.6	55.5	88.9
BSR 110 3P S11									86.3	49.6	101.6	64.7	116.8	79.9	147.1	110.3	177.5	140.7	61.0	97.9
BSR 110 3P S12											96.0	55.9	111.2	71.0	141.6	101.5	172.0	131.8	66.5	106.7
BSR 125 3P S05	105.2	76.5	132.4	103.7	159.5	130.9	186.6	158.0	213.8	185.2									49.5	78.2
BSR 125 3P S06	95.4	60.9	122.5	88.1	149.6	115.2	176.7	142.4	203.9	169.5	231.1	196.6							59.4	93.8
BSR 125 3P S07	85.5	45.3	112.6	72.5	139.7	99.6	166.8	126.8	194.0	153.8	221.2	181.0	248.3	208.2					69.3	109.4
BSR 125 3P S08			102.7	56.8	129.8	84.0	156.9	111.1	184.1	138.2	211.3	165.4	238.4	192.5	292.6	246.8			79.2	125.0
BSR 125 3P S09					119.9	68.4	147.1	95.4	174.2	122.6	201.4	149.8	228.5	176.9	282.8	231.2	337.1	285.5	89.0	140.7
BSR 125 3P S10							137.2	79.8	164.3	107.0	191.5	134.2	218.6	161.3	272.9	215.5	327.2	269.9	98.9	156.3
BSR 125 3P S11									154.4	91.4	181.6	118.5	208.7	145.7	263.0	199.9	317.3	254.2	108.8	171.9
BSR 125 3P S12											171.7	102.9	198.9	130.0	253.1	184.3	307.4	238.6	118.7	187.5
BSR 140 3P S05	150.4	111.6	190.2	151.3	229.9	191.0	269.6	230.7	309.2	270.3									79.8	118.7

Single Acting Actuator Torque (N.m)-3

Air Source Pressure (bar)																			Spring Stroke	
型号	3 bar		3.5 bar		4 bar		4.5 bar		5 bar		5.5 bar		6 bar		7 bar		8 bar			
	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°
BSR 140 3P S06	134.5	87.9	174.2	127.6	213.9	167.2	253.7	206.9	293.3	246.7	333.0	286.3							95.7	142.4
BSR 140 3P S07	118.5	64.1	158.3	103.8	198.0	143.5	237.7	183.2	277.3	222.9	317.1	262.6	356.8	302.3					111.7	166.2
BSR 140 3P S08			142.3	80.0	182.0	119.8	221.7	159.5	261.4	199.1	301.1	238.8	340.8	278.6	420.2	357.9			127.7	189.9
BSR 140 3P S09					166.1	96.0	205.7	135.7	245.4	175.5	285.2	215.1	324.9	254.8	404.2	334.3	483.6	413.6	140.7	213.6
BSR 140 3P S10							189.8	112.0	229.5	151.7	269.2	191.4	308.8	231.1	388.3	310.5	467.6	389.8	159.6	237.4
BSR 140 3P S11									213.5	127.9	253.3	167.6	292.9	207.4	372.3	286.7	451.7	366.2	175.6	261.1
BSR 140 3P S12											237.3	143.9	276.9	183.6	356.4	263.0	435.7	342.4	191.5	284.8
BSR 160 3P S05	210.1	159.5	265.7	215.0	321.3	270.6	376.8	326.2	432.4	381.8									106.7	157.4
BSR 160 3P S06	188.8	127.9	244.3	183.5	299.9	239.1	355.5	294.7	411.1	350.3	466.7	405.8							128.0	188.9
BSR 160 3P S07	167.4	96.5	223.0	152.1	278.6	207.7	334.2	263.3	389.7	318.8	445.3	374.4	500.9	430.0					149.4	220.4
BSR 160 3P S08			201.7	120.6	257.2	176.2	312.8	231.7	368.4	287.3	424.0	342.9	479.6	398.5	590.7	509.6			170.7	251.8
BSR 160 3P S09					235.9	144.7	291.5	200.3	347.1	255.9	402.6	311.5	458.2	367.0	569.4	478.2	680.6	589.4	192.1	283.3
BSR 160 3P S10							270.1	168.8	325.7	224.4	381.3	279.9	436.9	335.5	548.1	446.7	659.3	557.9	213.4	314.8
BSR 160 3P S11									304.4	192.9	360.0	248.5	415.5	304.1	526.7	415.3	638.0	526.4	234.7	346.3
BSR 160 3P S12											338.6	217.0	394.2	272.6	505.4	383.7	616.6	495.0	256.1	377.7
BSR 190 3P S05	326.2	249.2	412.8	335.8	499.5	422.4	586.1	509.1	672.7	595.7									176.3	253.4
BSR 190 3P S06	290.9	198.5	377.5	285.1	464.1	371.8	550.8	458.4	637.5	545.0	724.1	631.7							211.6	304.0
BSR 190 3P S07	255.7	147.8	342.3	234.4	428.9	321.1	515.6	407.7	602.2	494.3	688.8	581.0	775.4	667.7					246.9	354.6
BSR 190 3P S08			307.0	183.8	393.6	270.4	480.2	357.1	567.0	443.7	653.6	530.3	740.2	616.9	913.4	790.3			282.1	405.3
BSR 190 3P S09					358.4	219.8	445.0	306.4	531.7	393.0	618.3	479.7	704.9	566.3	878.1	739.5	1051.5	912.9	317.4	456.0
BSR 190 3P S10							409.7	255.7	496.4	342.4	583.1	429.0	669.7	515.7	842.9	688.9	1016.2	862.1	352.6	506.6
BSR 190 3P S11									461.1	291.7	547.8	378.3	634.4	464.9	807.6	638.3	981.0	811.5	387.9	557.3
BSR 190 3P S12											512.5	327.7	599.2	414.3	772.4	587.5	945.7	760.9	423.1	608.0
BSR 210 3P S05	463.5	353.2	584.4	474.1	705.4	595.1	826.3	716.1	947.3	837.0									238.0	348.3
BSR 210 3P S06	415.8	283.5	536.8	404.5	657.8	525.4	778.7	646.4	899.7	767.3	1020.6	888.2							285.7	418.0
BSR 210 3P S07	368.2	213.9	489.2	334.8	610.1	455.7	731.1	576.7	852.0	697.6	973.0	818.6	1094.0	939.5					333.3	487.6
BSR 210 3P S08			441.6	265.1	562.5	386.1	683.5	507.0	804.4	628.0	925.4	748.9	1046.3	869.9	1288.3	1111.8			380.8	557.4
BSR 210 3P S09					515.0	316.4	635.9	437.4	756.8	558.3	877.8	679.3	998.7	800.3	1240.6	1042.1	1482.5	1284.0	428.4	627.0
BSR 210 3P S10							588.3	367.7	709.3	488.7	830.1	609.5	951.1	730.5	1193.0	972.4	1434.9	1214.3	476.1	696.7
BSR 210 3P S11									661.6	418.9	782.6	539.9	903.6	660.9	1145.4	902.8	1387.3	1144.7	523.7	766.3
BSR 210 3P S12											735.0	470.3	855.9	591.2	1097.8	833.1	1339.7	1075.1	571.3	835.9
BSR 240 3P S05	689.9	550.7	877.5	738.3	1065.1	925.9	1252.7	1113.5	1440.3	1301.1									398.2	537.4
BSR 240 3P S06	610.2	443.2	797.8	630.8	985.4	818.4	1173.0	1006.0	1360.6	1193.6	1548.2	1381.2							477.8	644.9
BSR 240 3P S07	530.6	335.7	718.2	523.3	905.8	710.9	1093.4	898.5	1281.0	1086.1	1468.6	1273.7	1656.2	1461.3					557.5	752.3
BSR 240 3P S08			638.6	415.8	826.1	603.4	1013.7	791.0	1201.3	978.6	1388.9	1166.2	1576.5	1353.8	1951.7	1729.0			637.1	859.8
BSR 240 3P S09					746.5	496.0	934.1	683.6	1121.7	871.2	1309.3	1058.8	1496.9	1246.4	1872.1	1621.5	2247.3	1996.7	716.7	967.3
BSR 240 3P S10							854.5	576.1	1042.1	763.7	1229.7	951.3	1417.3	1138.9	1792.5	1514.1	2167.7	1889.3	796.4	1074.8
BSR 240 3P S11									962.4	656.2	1150.0	843.8	1337.6	1031.4	1712.8	1406.6	2088.0	1781.8	876.0	1182.2
BSR 240 3P S12											1070.4	736.3	1258.0	923.9	1633.2	1299.1	2008.4	1674.3	955.6	1289.7



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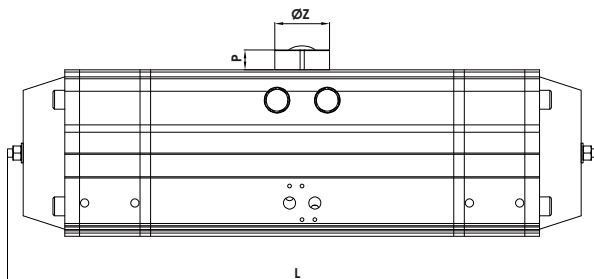
Pneumaster

Single Acting Actuator Torque (N.m)-4

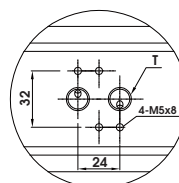
Air Source Pressure (bar)																			Spring Stroke	
型号	3 bar		3.5 bar		4 bar		4.5 bar		5 bar		5.5 bar		6 bar		7 bar		8 bar			
	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°
BSR 270 3P S05	987.4	767.7	1251.2	1031.5	1514.9	1295.2	1778.8	1559.1	2042.5	1822.8									542.7	762.4
BSR 270 3P S06	878.8	615.2	1142.7	879.0	1406.4	1142.8	1670.2	1406.6	1934.0	1670.3	2197.8	1934.2							651.3	914.9
BSR 270 3P S07	770.3	462.7	1034.1	726.5	1297.9	990.3	1561.7	1254.1	1825.4	1517.9	2089.3	1781.7	2353.1	2045.5					759.8	1067.4
BSR 270 3P S08			925.6	574.0	1189.3	837.8	1453.2	1101.6	1716.9	1365.4	1980.7	1629.2	2244.6	1893.1	2772.2	2420.6			868.3	1219.9
BSR 270 3P S09					1080.8	685.3	1344.6	949.1	1608.4	1212.9	1872.2	1476.7	2136.0	1740.6	2663.6	2268.2	3191.2	2795.7	976.9	1372.4
BSR 270 3P S10							1236.1	796.7	1499.8	1060.4	1763.7	1324.2	2027.5	1588.1	2555.1	2115.7	3082.7	2643.3	1085.4	1524.8
BSR 270 3P S11									1391.3	907.9	1655.1	1171.8	1919.0	1435.6	2446.5	1963.2	2974.1	2490.8	1194.0	1677.3
BSR 270 3P S12											1546.6	1019.3	1810.4	1283.1	2338.0	1810.7	2865.6	2338.3	1302.5	1829.8
BSR 300 3P S05	1298.2	967.6	1637.6	1307.0	1977.0	1646.4	2316.4	1985.8	2655.8	2325.2									670.4	1000.9
BSR 300 3P S06	1164.1	767.4	1503.5	1106.8	1842.9	1446.2	2182.3	1785.6	2521.6	2125.0	2861.0	2464.4							804.4	1201.2
BSR 300 3P S07	1030.0	567.2	1369.3	906.6	1708.8	1246.0	2048.2	1585.4	2387.6	1924.8	2727.0	2264.2	3066.4	2603.6					938.5	1401.4
BSR 300 3P S08			1235.3	706.4	1574.7	1045.8	1914.1	1385.2	2253.5	1724.6	2592.9	2064.0	2932.3	2403.4	4289.9	3082.2			1072.6	1601.5
BSR 300 3P S09					1440.6	845.6	1780.0	1185.0	2119.5	1524.4	2458.9	1863.8	2798.3	2203.2	4155.9	2882.0	4155.9	3560.8	1206.7	1801.7
BSR 300 3P S10							1646.0	984.8	1985.4	1324.2	2324.8	1663.6	2664.2	2003.1	4021.7	2681.8	4021.7	3360.6	1340.7	2001.9
BSR 300 3P S11									1851.2	1124.0	2190.6	1463.4	2530.1	1802.8	3887.7	2481.6	3887.7	3160.5	1474.8	2202.1
BSR 300 3P S12											2056.6	1263.2	2396.0	1602.6	3753.6	2281.4	3753.6	2960.2	1608.8	2402.3
BSR 350 3P S05	1957.0	1490.3	2460.7	1993.9	2964.4	2497.7	3468.0	3001.4	3971.8	3505.1									964.5	1431.2
BSR 350 3P S06	1764.0	1204.1	2267.8	1707.7	2771.5	2211.4	3275.2	2715.1	3778.9	3218.8	4282.6	3722.6							1157.4	1717.4
BSR 350 3P S07	1571.2	917.8	2074.9	1421.5	2578.6	1925.2	3082.3	2428.9	3586.0	2932.6	4089.7	3436.3	4593.4	3939.9					1350.2	2003.6
BSR 350 3P S08			1882.0	1135.3	2385.7	1638.9	2889.4	2142.6	3393.1	2646.4	3896.8	3150.1	4400.5	3653.8	5407.8	4661.1			1543.2	2289.9
BSR 350 3P S09			1689.1	849.0	2192.8	1352.8	2696.5	1856.4	3200.2	2360.1	3703.9	2863.8	4207.6	3367.5	5215.0	4374.9	6222.4	5382.3	1736.0	2576.1
BSR 350 3P S10			0.0	0.0	1999.9	1066.5	2503.6	1570.1	3007.3	2073.9	3511.0	2577.6	4014.7	3081.3	5022.1	4088.6	6029.5	5096.1	1928.9	2862.4
BSR 350 3P S11					1807.0	780.3	2310.7	1284.0	2814.5	1787.6	3318.1	2291.3	3821.8	2795.1	4829.2	3802.4	5836.6	4809.8	2121.9	3148.6
BSR 350 3P S12							2117.8	997.7	2621.5	1501.4	3125.2	2005.1	3629.0	2508.8	4636.3	3516.2	5643.8	4523.6	2314.7	3434.9
BSR 400 3P S05	2923.0	2219.7	3690.6	2987.3	4458.1	3754.9	5225.7	4522.4	5993.1	5289.9									1528.7	2232.0
BSR 400 3P S06	2617.3	1773.4	3384.8	2540.9	4152.4	3308.5	4919.9	4076.0	5687.4	4843.5	6455.0	5611.1							1834.5	2678.4
BSR 400 3P S07	2311.5	1327.0	3079.1	2094.5	3846.6	2862.1	4614.2	3629.6	5381.7	4397.1	6149.2	5164.7	6916.8	5932.2					2140.2	3124.8
BSR 400 3P S08			2773.3	1648.1	3540.9	2415.7	4308.4	3183.2	5075.9	3950.7	5843.5	4718.3	6611.0	5485.8	8146.2	7021.0			2446.0	3571.2
BSR 400 3P S09			2467.6	1201.7	3235.1	1969.3	4002.7	2736.9	4770.2	3504.3	5537.7	4271.9	6305.3	5039.4	7840.4	6574.6	9375.4	8109.6	2751.7	4017.5
BSR 400 3P S10			0.0	0.0	2929.4	1522.9	3697.0	2290.5	4464.4	3057.9	5236.8	3825.5	5999.5	4593.0	7534.7	6128.2	9069.7	7663.2	3057.4	4463.9
BSR 400 3P S11					2623.7	1076.5	3391.2	1844.1	4158.7	2611.5	4926.2	3379.1	5693.8	4146.7	7228.9	5681.8	8764.0	7216.8	3363.2	4910.3
BSR 400 3P S12							3085.5	1397.7	3852.9	2165.1	4620.5	2932.7	5388.1	3700.3	6923.2	5235.4	8458.2	6770.4	3668.9	5356.7

Product Dimension Diagram.

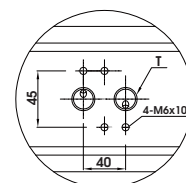
Sample Booklet Reference Image



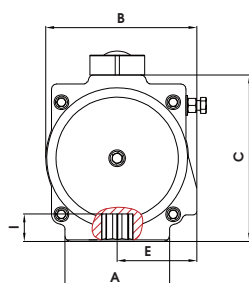
Air Source Interface Diagram



G1/4 NAMUR Standard
(Applicable to specification: PNEU50-PNEU210)

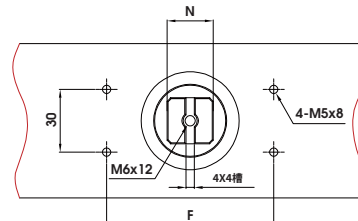


G1/2 NAMUR standard
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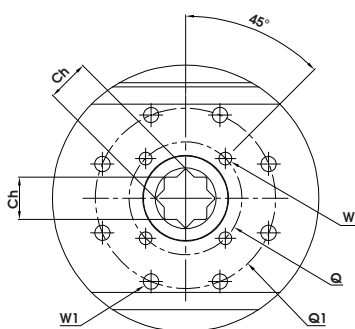


(Applicable to Specifications: PNEU050-PNEU400)

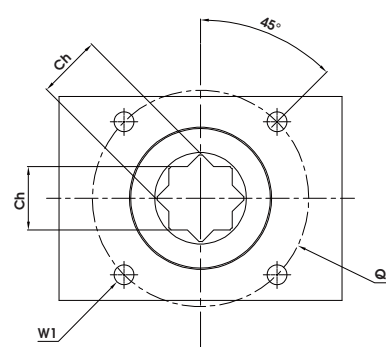
Top View



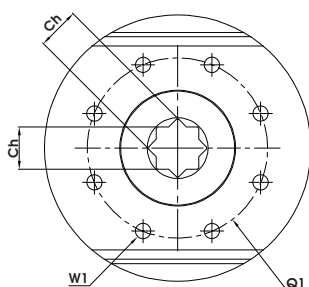
Bottom View



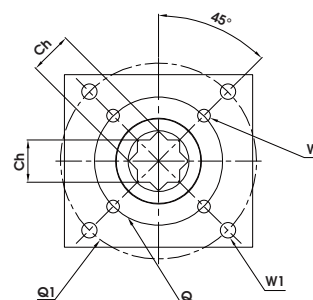
(Applicable to Specification: PNEU350)



(Applicable to Specifications: PNEU032, PNEU210-PNEU300)



(Applicable to Specification: PNEU400)



(Applicable to Specifications: PNEU050-PNEU190)

Product Size Table.

Dimensional Table for Pneumatic Actuators (unit: mm)																	
Model	A	B	C	D	E	F	ØG	H	I	P	Flange Type	M	M1	N	N1	L	K
PNEU 050 - 3P	351	70	70.5	45	41.5	20	40	12	80	10	F03/05	36	50	M5×7.5	M6×9	11×11	G1/4"
PNEU 065 - 3P	397	89	89.5	62	51.5	20	40	16	80	10	F05/07	50	70	M6×9	M8×12	14×14	G1/4"
PNEU 075 - 3P	442	100	102.5	68	59	20	40	16	80	14	F05/07	50	70	M6×9	M8×12	14×14	G1/4"
PNEU 085 - 3P	475	113	112.5	68	63.5	20	40	19	80	14	F05/07	50	70	M6×9	M8×12	17×17	G1/4"
PNEU 095 - 3P	521	123	126	92	71	20	40	19	80	14	F05/07	50	70	M6×9	M8×12	17×17	G1/4"
PNEU 110 - 3P	543	136	138.5	93	76.5	20	40	19	80	14	F07/10	70	102	M8×12	M10×15	17×17	G1/4"
PNEU 125 - 3P	645	161	157	96	85	30	56	25	80	22	F07/10	70	102	M8×12	M10×15	22×22	G1/4"
PNEU 140 - 3P	703	178	178	110	97	30	56	31	80	22	F10/12	102	125	M10×15	M12×18	27×27	G1/4"
PNEU 160 - 3P	742	200	196	112	106	30	56	31	130	22	F10/12	102	125	M10×15	M12×18	27×27	G1/4"
PNEU 190 - 3P	910	232	216.5	136	112	30	56	41	130	22	F10/14	102	140	M10×15	M16×24	36×36	G1/4"
PNEU 210 - 3P	984	255	310	140	120	30	80	40	130	32	F14	-	140	-	M16×24	36×36	G1/4"
PNEU 240 - 3P	1114	305	360	159	131	30	80	50	130	32	F16	-	165	-	M20×28	46×46	G1/2"
PNEU 270 - 3P	1204	330	403	159	147.5	30	80	50	130	32	F16	-	165	-	M20×28	46×46	G1/2"
PNEU 300 - 3P	1384	354	438	180	173	30	80	50	130	32	F16	-	165	-	M20×28	46×46	G1/2"
PNEU 350 - 3P	1493	410	470	270	195	30	80	50	130	32	F16/F25	165	254	M20×28	M16×30	46×46	G1/2"
PNEU 400 - 3P	1624	466	520	290	260	30	80	60	130	32	F25	-	254	-	M16×30	55×55	G1/2"

Type Selection Table.



BSR 065 3P S10 NT FC 000

Code key						
Series	Cylinder Diameter	Acting Manner	Number of Springs	Temperature	Air Failure Position	Special Remark
BDA = Double Acting Cylinder	065	3P = Three-stage	S10 = Number of Springs	NT = -18°C to 80°C	FO = Normally Open	000
BSR = Single Acting Cylinder				HT = -18°C to 150°C	FC = Normally Closed	
				LT = -40°C to 80°C	FL = Holding Position	



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