

AirTAC

Mini Cylinders

Standard: ISO 6432

Medium: Compressed air

Materials:

Caps: Hard anodized aluminium
Housing: Polished rustproof steel 304
Piston Rod: Stainless steel 316
Piston Seals: NBR

MINI cylinders come as standard with:

- Magnetic ring around the piston
- Piston rod nut and nose nut
- End buffer in the shape of TPU bumpers
- Sound damper (for individually functional design)

The following options are available upon request, lead times apply:

- Cylinders without magnetic ring around the piston
- Other stroke lengths
- Shorter cylinders with flat back side (no back hinge)
- Individually functioning cylinders with spring on the bottom side (piston rod is out without pressure)
- Cylinders made completely of stainless steel (including caps)



Operational Temperature:
-10°C to +80°C



Working Pressure:
10 bar at 20°C

Full technical specifications available on request

ISO 6432 Mini Cylinders



Single Acting, Magnetic



MSA-16X10-S	16	10	M5	M16 x 1.5	M6 x 1
MSA-16X20-S	16	25	M5	M16 x 1.5	M6 x 1
MSA-16X25-S	16	50	M5	M16 x 1.5	M6 x 1
MSA-20X10-S	20	10	1/8"	M22 x 1.5	M8 x 1.25
MSA-20X20-S	20	25	1/8"	M22 x 1.5	M8 x 1.25
MSA-20X25-S	20	50	1/8"	M22 x 1.5	M8 x 1.25
MSA-25X10-S	25	10	1/8"	M22 x 1.5	M10 x 1.25
MSA-25X20-S	25	25	1/8"	M22 x 1.5	M10 x 1.25
MSA-25X25-S	25	50	1/8"	M22 x 1.5	M10 x 1.25

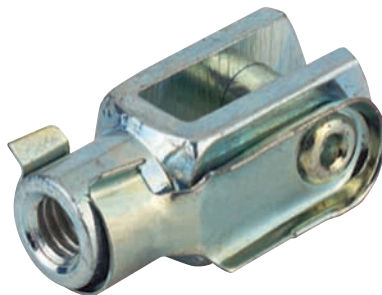


Double Acting, Magnetic



MA-8X10-S	8	10	M5	M12 x 1.25	M4 x 0.7
MA-8X25-S	8	25	M5	M12 x 1.25	M4 x 0.7
MA-8X50-S	8	50	M5	M12 x 1.25	M4 x 0.7
MA-8X80-S	8	80	M5	M12 x 1.25	M4 x 0.7
MA-10X10-S	10	10	M5	M12 x 1.25	M4 x 0.7
MA-10X25-S	10	25	M5	M12 x 1.25	M4 x 0.7
MA-10X50-S	10	50	M5	M12 x 1.25	M4 x 0.7
MA-10X80-S	10	80	M5	M12 x 1.25	M4 x 0.7
MA-10X100-S	10	100	M5	M12 x 1.25	M4 x 0.7
MA-12X10-S	12	10	M5	M16 x 1.5	M6 x 1
MA-12X25-S	12	25	M5	M16 x 1.5	M6 x 1
MA-12X50-S	12	50	M5	M16 x 1.5	M6 x 1
MA-12X80-S	12	80	M5	M16 x 1.5	M6 x 1
MA-12X100-S	12	100	M5	M16 x 1.5	M6 x 1
MA-16X25-S	16	25	M5	M16 x 1.5	M6 x 1
MA-16X50-S	16	50	M5	M16 x 1.5	M6 x 1
MA-16X80-S	16	80	M5	M16 x 1.5	M6 x 1
MA-16X100-S	16	100	M5	M16 x 1.5	M6 x 1
MA-16X125-S	16	125	M5	M16 x 1.5	M6 x 1
MA-20X25-S	20	25	1/8"	M22 x 1.5	M8 x 1.25
MA-20X50-S	20	50	1/8"	M22 x 1.5	M8 x 1.25
MA-20X80-S	20	80	1/8"	M22 x 1.5	M8 x 1.25
MA-20X100-S	20	100	1/8"	M22 x 1.5	M8 x 1.25
MA-20X125-S	20	125	1/8"	M22 x 1.5	M8 x 1.25
MA-20X160-S	20	160	1/8"	M22 x 1.5	M8 x 1.25
MA-25X25-S	25	25	1/8"	M22 x 1.5	M10 x 1.25
MA-25X50-S	25	50	1/8"	M22 x 1.5	M10 x 1.25
MA-25X80-S	25	80	1/8"	M22 x 1.5	M10 x 1.25
MA-25X100-S	25	100	1/8"	M22 x 1.5	M10 x 1.25
MA-25X125-S	25	125	1/8"	M22 x 1.5	M10 x 1.25
MA-25X160-S	25	160	1/8"	M22 x 1.5	M10 x 1.25
MA-25X200-S	25	200	1/8"	M22 x 1.5	M10 x 1.25
MA-25X250-S	25	250	1/8"	M22 x 1.5	M10 x 1.25

Mountings & Sensors



Piston Rod Clevis Mounting



MI-8/10-Y	8/10	M4 x 0.7
MI-12/16-Y	12/16	M6 x 1
MI-20-Y	20	M8 x 1.25
MI-25-Y	25	M10 x 1.25



Front/Rear Flange Mounting



MI-8/10-FA	8/10
MI-12/16-FA	12/16
MI-20/25-FA	20/25



Rear Hinge Mounting



MI-8/10-SDB	8/10
MI-12/16-SDB	12/16
MI-20/25-SDB	20/25

Foot Mounting



MI-8/10-LB	8/10
MI-12/16-LB	12/16
MI-20/25-LB	20/25



Reed Switch



CS1-U	12-50	5-240V AC/DC
--------------	-------	--------------



Reed Switch Bracket



MI-BAND	8-25
----------------	------

Pneumatic
& Vacuum
Equipment

Morgren

Valves

Ring Main
Systems

Adaptors
& Fittings

Stainless
Steel

Malleable
Fittings

Jaymac,
Hose, Tubing
& Couplings

Clamps
& Clips

Sprays &
Adhesives

Blow Guns
& Vacuum

Wash Down
& Fuelling

Air Tools

Personal
Protective
Equipment

Tools &
Hardware

Welding

Electrical

Plumbing
& Heating

Festo

AirTAC

ISO/VDMA Cylinders

ISO 6431 VDMA 24562 Cylinders



Operational Temperature:
-5°C to +70°C



Working Pressure:
10 bar at 20°C

Request Tech-Sheet No. 1342 for Technical Information.



Double Acting, Magnetic



SI-32X25-S	32	25	G1/8	M10 x 1.25
SI-32X50-S	32	50	G1/8	M10 x 1.25
SI-32X80-S	32	80	G1/8	M10 x 1.25
SI-32X100-S	32	100	G1/8	M10 x 1.25
SI-32X125-S	32	125	G1/8	M10 x 1.25
SI-32X160-S	32	160	G1/8	M10 x 1.25
SI-32X200-S	32	200	G1/8	M10 x 1.25
SI-32X250-S	32	250	G1/8	M10 x 1.25
SI-32X300-S	32	300	G1/8	M10 x 1.25
SI-32X350-S	32	350	G1/8	M10 x 1.25
SI-32X400-S	32	400	G1/8	M10 x 1.25
SI-32X450-S	32	450	G1/8	M10 x 1.25
SI-32X500-S	32	500	G1/8	M10 x 1.25
SI-40X25-S	40	25	G1/4	M12 x 1.25
SI-40X50-S	40	50	G1/4	M12 x 1.25
SI-40X80-S	40	80	G1/4	M12 x 1.25
SI-40X100-S	40	100	G1/4	M12 x 1.25
SI-40X125-S	40	125	G1/4	M12 x 1.25
SI-40X160-S	40	160	G1/4	M12 x 1.25
SI-40X200-S	40	200	G1/4	M12 x 1.25
SI-40X250-S	40	250	G1/4	M12 x 1.25
SI-40X300-S	40	300	G1/4	M12 x 1.25
SI-40X350-S	40	350	G1/4	M12 x 1.25
SI-40X400-S	40	400	G1/4	M12 x 1.25
SI-40X450-S	40	450	G1/4	M12 x 1.25
SI-40X500-S	40	500	G1/4	M12 x 1.25
SI-40X600-S	40	600	G1/4	M12 x 1.25
SI-40X700-S	40	700	G1/4	M12 x 1.25
SI-40X800-S	40	800	G1/4	M12 x 1.25
SI-50X25-S	50	25	G1/4	M16 x 1.5
SI-50X50-S	50	50	G1/4	M16 x 1.5
SI-50X80-S	50	80	G1/4	M16 x 1.5
SI-50X100-S	50	100	G1/4	M16 x 1.5
SI-50X125-S	50	125	G1/4	M16 x 1.5
SI-50X160-S	50	160	G1/4	M16 x 1.5
SI-50X200-S	50	200	G1/4	M16 x 1.5
SI-50X250-S	50	250	G1/4	M16 x 1.5
SI-50X300-S	50	300	G1/4	M16 x 1.5
SI-50X350-S	50	350	G1/4	M16 x 1.5
SI-50X400-S	50	400	G1/4	M16 x 1.5
SI-50X450-S	50	450	G1/4	M16 x 1.5
SI-50X500-S	50	500	G1/4	M16 x 1.5
SI-50X600-S	50	600	G1/4	M16 x 1.5
SI-50X700-S	50	700	G1/4	M16 x 1.5
SI-50X800-S	50	800	G1/4	M16 x 1.5
SI-50X900-S	50	900	G1/4	M16 x 1.5
SI-50X1000-S	50	1000	G1/4	M16 x 1.5
SI-63X25-S	63	25	G3/8	M16 x 1.5
SI-63X50-S	63	50	G3/8	M16 x 1.5
SI-63X80-S	63	80	G3/8	M16 x 1.5

Double Acting, Magnetic



SI-63X100-S	63	100	G3/8	M16 x 1.5
SI-63X125-S	63	125	G3/8	M16 x 1.5
SI-63X160-S	63	160	G3/8	M16 x 1.5
SI-63X200-S	63	200	G3/8	M16 x 1.5
SI-63X250-S	63	250	G3/8	M16 x 1.5
SI-63X300-S	63	300	G3/8	M16 x 1.5
SI-63X350-S	63	350	G3/8	M16 x 1.5
SI-63X400-S	63	400	G3/8	M16 x 1.5
SI-63X450-S	63	450	G3/8	M16 x 1.5
SI-63X500-S	63	500	G3/8	M16 x 1.5
SI-63X600-S	63	600	G3/8	M16 x 1.5
SI-63X700-S	63	700	G3/8	M16 x 1.5
SI-63X800-S	63	800	G3/8	M16 x 1.5
SI-63X900-S	63	900	G3/8	M16 x 1.5
SI-63X1000-S	63	1000	G3/8	M16 x 1.5
SI-80X25-S	80	25	G3/8	M20 x 1.5
SI-80X50-S	80	50	G3/8	M20 x 1.5
SI-80X80-S	80	80	G3/8	M20 x 1.5
SI-80X100-S	80	100	G3/8	M20 x 1.5
SI-80X125-S	80	125	G3/8	M20 x 1.5
SI-80X160-S	80	160	G3/8	M20 x 1.5
SI-80X200-S	80	200	G3/8	M20 x 1.5
SI-80X250-S	80	250	G3/8	M20 x 1.5
SI-80X300-S	80	300	G3/8	M20 x 1.5
SI-80X350-S	80	350	G3/8	M20 x 1.5
SI-80X400-S	80	400	G3/8	M20 x 1.5
SI-80X450-S	80	450	G3/8	M20 x 1.5
SI-80X500-S	80	500	G3/8	M20 x 1.5
SI-80X600-S	80	600	G3/8	M20 x 1.5
SI-80X700-S	80	700	G3/8	M20 x 1.5
SI-80X800-S	80	800	G3/8	M20 x 1.5
SI-80X900-S	80	900	G3/8	M20 x 1.5
SI-80X1000-S	80	1000	G3/8	M20 x 1.5
SI-100X25-S	100	25	G1/2	M20 x 1.5
SI-100X50-S	100	50	G1/2	M20 x 1.5
SI-100X80-S	100	80	G1/2	M20 x 1.5
SI-100X100-S	100	100	G1/2	M20 x 1.5
SI-100X125-S	100	125	G1/2	M20 x 1.5
SI-100X160-S	100	160	G1/2	M20 x 1.5
SI-100X200-S	100	200	G1/2	M20 x 1.5
SI-100X250-S	100	250	G1/2	M20 x 1.5
SI-100X300-S	100	300	G1/2	M20 x 1.5
SI-100X350-S	100	350	G1/2	M20 x 1.5
SI-100X400-S	100	400	G1/2	M20 x 1.5
SI-100X450-S	100	450	G1/2	M20 x 1.5
SI-100X500-S	100	500	G1/2	M20 x 1.5
SI-100X600-S	100	600	G1/2	M20 x 1.5
SI-100X700-S	100	700	G1/2	M20 x 1.5
SI-100X800-S	100	800	G1/2	M20 x 1.5
SI-100X900-S	100	900	G1/2	M20 x 1.5
SI-100X1000-S	100	1000	G1/2	M20 x 1.5

Mountings



Foot Mounting



SI-32-LB	32
SI-40-LB	40
SI-50-LB	50
SI-63-LB	63
SI-80-LB	80
SI-100-LB	100
SI-125-LB	125
SI-160-LB	160
SI-200-LB	200



Front Flange Mounting



SI-32-FA	32
SI-40-FA	40
SI-50-FA	50
SI-63-FA	63
SI-80-FA	80
SI-100-FA	100
SI-125-FA	125
SI-160-FA	160
SI-200-FA	200



Rear Clevis Mounting, Male



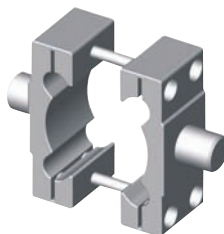
SI-32-CA	32
SI-40-CA	40
SI-50-CA	50
SI-63-CA	63
SI-80-CA	80
SI-100-CA	100
SI-125-CA	125
SI-160-CA	160
SI-200-CA	200



Rear Clevis Mounting, Female



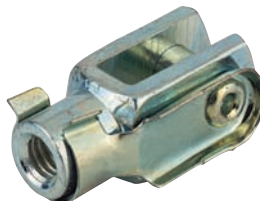
SI-32-CB	32
SI-40-CB	40
SI-50-CB	50
SI-63-CB	63
SI-80-CB	80
SI-100-CB	100
SI-125-CB	125
SI-160-CB	160
SI-200-CB	200



Centre Trunion Mounting, Adjustable



SI-32-TC-M	32
SI-40-TC-M	40
SI-50-TC-M	50
SI-63-TC-M	63
SI-80-TC-M	80
SI-100-TC-M	100
SI-125-TC-M	125
SI-160-TC-M	160
SI-200-TC-M	200



Piston Rod Clevis Mounting



SI-32-Y	32
SI-40-Y	40
SI-50/63-Y	50/63
SI-80/100-Y	80/100
SI-125-Y	125
SI-160/200-Y	160/200



Universal Rod Eye Mounting



SI-32-U	32
SI-40-U	40
SI-50/63-U	50/63
SI-80/100-U	80/100



Piston Rod Adjustable Mounting



SI-32-F	32
SI-40-F	40
SI-50/63-F	50/63
SI-80/100-F	80/100



Reed Switch Brackets



IH-32	32
IH-40	40
IH-50	50
IH-63	63
IH-80	80
IH-100	100
IH-125	125
IH-160	160
IH-200	200

See page 295 for Reed Switch to suit ISO/VDMA cylinders.

Pneumatic & Vacuum Equipment

Norgren

Valves

Ring Main Systems

Adaptors & Fittings

Stainless Steel

Malleable Fittings

Jaymac, Hose, Tubing & Couplings

Clamps & Clips

Sprays & Adhesives

Blow Guns & Vacuum

Wash Down & Fuelling

Air Tools

Personal Protective Equipment

Tools & Hardware

Welding

Electrical

Plumbing & Heating

Festo

AirTAC

Compact Cylinders

The small installation size enables a compact machine design.

ACQ compact cylinders are interchangeable with various types of compact cylinders from other suppliers.

The quality and finishing are of a very high standard.

Compact cylinders come as standard with:

- Magnetic piston ring
- Hard chromium plated piston rod
- Internal wire in the piston rod
- Synthetic buffer



Operational Temperature:
-5°C to +80°C



Operational Pressure:
1 to 9 bar

Test Pressure:
15 bar

The following options are available upon request, lead times apply:

- Without magnetic piston (ACQ type)
- With continuous piston rod (ACQD type)
- Larger diameters: 63, 80 and 100 mm
- Sprung In
- Sprung Out
- Longer stroke length
Maximum stroke: Ø12 to 50 mm
Ø16 to 60 mm
Ø20 and Ø25 to 100mm
Ø32 up to Ø100 to 130mm

Full technical specifications available on request

Compact Cylinders, Double Acting, Magnetic

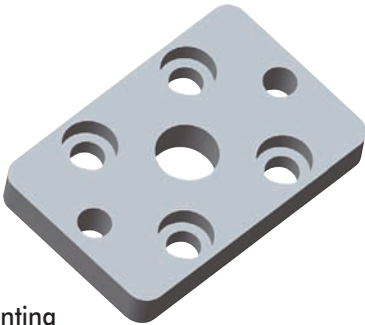


ACQS-12X5	12	5	M5	M3
ACQS-12X10	12	10	M5	M3
ACQS-12X15	12	15	M5	M3
ACQS-12X20	12	20	M5	M3
ACQS-12X25	12	25	M5	M3
ACQS-16X5	16	5	M5	M4
ACQS-16X10	16	10	M5	M4
ACQS-16X15	16	15	M5	M4
ACQS-16X20	16	20	M5	M4
ACQS-16X25	16	25	M5	M4
ACQS-20X5	20	5	M5	M5
ACQS-20X10	20	10	M5	M5
ACQS-20X15	20	15	M5	M5
ACQS-20X20	20	20	M5	M5
ACQS-20X25	20	25	M5	M5
ACQS-20X30	20	30	M5	M5
ACQS-20X40	20	40	M5	M5
ACQS-20X50	20	50	M5	M5
ACQS-25X5	25	5	M5	M6
ACQS-25X10	25	10	M5	M6
ACQS-25X15	25	15	M5	M6
ACQS-25X20	25	20	M5	M6
ACQS-25X25	25	25	M5	M6
ACQS-25X30	25	30	M5	M6
ACQS-25X40	25	40	M5	M6
ACQS-25X50	25	50	M5	M6



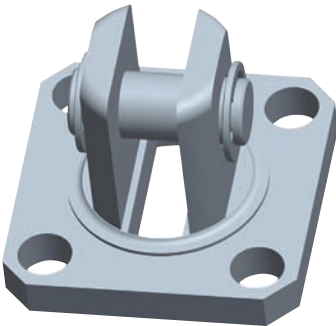
ACQS-32X5	32	5	1/8"	M8
ACQS-32X10	32	10	1/8"	M8
ACQS-32X15	32	15	1/8"	M8
ACQS-32X20	32	20	1/8"	M8
ACQS-32X25	32	25	1/8"	M8
ACQS-32X30	32	30	1/8"	M8
ACQS-32X40	32	40	1/8"	M8
ACQS-32X50	32	50	1/8"	M8
ACQS-40X5	40	5	1/8"	M8
ACQS-40X10	40	10	1/8"	M8
ACQS-40X15	40	15	1/8"	M8
ACQS-40X20	40	20	1/8"	M8
ACQS-40X25	40	25	1/8"	M8
ACQS-40X30	40	30	1/8"	M8
ACQS-40X40	40	40	1/8"	M8
ACQS-40X50	40	50	1/8"	M8
ACQS-50X5	50	5	1/4"	M10
ACQS-50X10	50	10	1/4"	M10
ACQS-50X15	50	15	1/4"	M10
ACQS-50X20	50	20	1/4"	M10
ACQS-50X25	50	25	1/4"	M10
ACQS-50X30	50	30	1/4"	M10
ACQS-50X40	50	40	1/4"	M10
ACQS-50X50	50	50	1/4"	M10

Mountings & Sensors



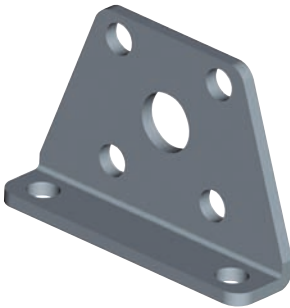
Front/Rear Flange Mounting

	
ACQ-12-FAFB	12
ACQ-16-FAFB	16
ACQ-20-FAFB	20
ACQ-25-FAFB	25
ACQ-32-FAFB	32
ACQ-40-FAFB	40
ACQ-50-FAFB	50



Rear Clevis Mounting

	
ACQ-12-CB	12
ACQ-16-CB	16
ACQ-20-CB	20
ACQ-25-CB	25
ACQ-32-CB	32
ACQ-40-CB	40
ACQ-50-CB	50



Foot Mounting

	
ACQ-12-LB	12
ACQ-16-LB	16
ACQ-20-LB	20
ACQ-25-LB	25
ACQ-32-LB	32
ACQ-40-LB	40
ACQ-50-LB	50



Reed Switch

		
CS1-J	12-50	5-240V AC/DC

- Pneumatic & Vacuum Equipment
- Norgren
- Valves
- Ring Main Systems
- Adaptors & Fittings
- Stainless Steel
- Malleable Fittings
- Jaymac, Hose, Tubing & Couplings
- Clamps & Clips
- Sprays & Adhesives
- Blow Guns & Vacuum
- Wash Down & Fuelling
- Air Tools
- Personal Protective Equipment
- Tools & Hardware
- Welding
- Electrical
- Plumbing & Heating
- Festo

AirTAC

Manual Valves

Medium: Clean, dry, filtered & lubricated compressed air.

Material:

Body: Aluminium Alloy

Seals: NBR

Full technical specifications available on request



Operational Temperature:
-5°C to +60°C



Working Pressure:
0 to 8 bar

Manual Valves 3/2 Way



Push/Pull



3L110-06
3L210-08
3L310-10

1/8"
1/4"
3/8"



Push Button



S3PF-06-G
S3PF-06-R
S3PF-06-B

1/8"
1/8"
1/8"

Green
Red
Black

Push Button, External



S3PP-06-G
S3PP-06-R
S3PP-06-B

1/8"
1/8"
1/8"

Green
Red
Black



Palm Button



S3PM-06-G
S3PM-06-R
S3PM-06-B

1/8"
1/8"
1/8"

Green
Red
Black



Manual Valves 3/2 Way



Switch



S3HS-06-G	1/8"	Green
S3HS-06-R	1/8"	Red
S3HS-06-B	1/8"	Black



Palm Button, Latching



S3PL-06-R	1/8"	Red
------------------	------	-----



Lever/Lever



S3HL-06-B	1/8"	Black
------------------	------	-------



Plunger & Roller



S3B-06	1/8"	Plunger
S3R-06	1/8"	Roller Lever
S3L-06	1/8"	Roller Lever, 1 Way Trip
S3V-06	1/8"	Roller

Manual Valves 4/2 Way



Lever/Lever



4HV210-06-S	1/8"
4HV310-08-S	1/4"
4HV310-10-S	3/8"
4HV410-15-S	1/2"
4HV410-20-S	3/4"



Lever/Lever



4H210-06	1/8"
4H310-08	1/4"
4H310-10	3/8"



Push/Pull



4L110-06	1/8"
4L210-08	1/4"
4L310-10	3/8"



Slide Valves



HSV-06-FF	1/8"
HSV-08-FF	1/4"
HSV-10-FF	3/8"
HSV-15-FF	1/2"
HSV-20-FF	3/4"
HSV-25-FF	1"

Manual Valves 4/3 Way



Lever/Lever/Lever



4HV230-C-06-S	1/8"
4HV330-C-08-S	1/4"
4HV330-C-10-S	3/8"
4HV430-C-15-S	1/2"
4HV430-C-20-S	3/4"

Manual Valves 5/2 Way



Foot Valves



4F210-08	1/4"	Foot
4F210-08G	1/4"	Foot, Guarded
4F210-08L	1/4"	Foot/Foot
4F210-08LG	1/4"	Foot/Foot, Guarded



Flow Control Valves



ASC100-06	1/8"
ASC200-08	1/4"
ASC300-10	3/8"
ASC300-15	1/2"

Pneumatic & Vacuum Equipment

Morgren

Valves

Ring Main Systems

Adaptors & Fittings

Stainless Steel

Malleable Fittings

Jaymac, Hose, Tubing & Couplings

Clamps & Clips

Sprays & Adhesives

Blow Guns & Vacuum

Wash Down & Fuelling

Air Tools

Personal Protective Equipment

Tools & Hardware

Welding

Electrical

Plumbing & Heating

Festo

AirTAC

Pilot Valves

Medium: Clean, dry, filtered & lubricated compressed air.

Material:

Body: Aluminium Alloy

Seals: NBR

Full technical specifications available on request



Operational Temperature:
-5°C to +60°C



Working Pressure:
1.5 to 8 bar

Pilot Valves 3/2 Way



Pilot/Spring



3A210-06-NC	1/8"	NC
3A210-06-NO	1/8"	NO
3A210-08-NC	1/4"	NC
3A210-08-NO	1/4"	NO



Pilot/Pilot



3A220-06	1/8"
3A220-08	1/4"

Pilot Valves 5/2 Way



Pilot/Spring



4A210-06	1/8"
4A210-08	1/4"
4A310-10	3/8"
4A410-15	1/2"



Pilot/Pilot



4A220-06	1/8"
4A220-08	1/4"
4A320-10	3/8"
4A420-15	1/2"

Pilot Valves 5/3 Way



Fully Sealed Mid Position



4A230C-06	1/8"
4A230C-08	1/4"
4A330C-10	3/8"
4A430C-15	1/2"



Supply Sealed, Open Exhaust



4A230E-06	1/8"
4A230E-08	1/4"
4A330E-10	3/8"
4A430E-15	1/2"



Centre Open, Pressurized



4A230P-06	1/8"
4A230P-08	1/4"
4A330P-10	3/8"
4A430P-15	1/2"

AirTAC

Solenoid Valves

Medium: Clean, dry, filtered & lubricated compressed air.

Material:

Body: Aluminium Alloy

Seals: NBR

Spool Packing: HNBR

Full technical specifications available on request



Operational Temperature:
-5°C to +60°C



Working Pressure:
1.5 to 8 bar

Solenoid Valves 3/2 Way



Solenoid/Spring



3V210-06-NC	1/8"	NC
3V210-06-NO	1/8"	NO
3V210-08-NC	1/4"	NC
3V210-08-NO	1/4"	NO
3V310-10-NC	3/8"	NC
3V310-10-NO	3/8"	NO



Solenoid/Solenoid



3V220-06	1/8"
3V220-08	1/4"
3V320-10	3/8"

Solenoid Valves 5/2 Way



Solenoid/Spring



4V210-06	1/8"
4V210-08	1/4"
4V310-10	3/8"
4V410-15	1/2"



Solenoid/Solenoid



4V220-06	1/8"
4V220-08	1/4"
4V320-10	3/8"
4V420-15	1/2"

Solenoid Valves 5/3 Way



Fully Sealed Mid Position



4V230C-06	1/8"
4V230C-08	1/4"
4V330C-10	3/8"
4V430C-15	1/2"



Supply Sealed, Open Exhaust



4V230E-06	1/8"
4V230E-08	1/4"
4V330E-10	3/8"
4V430E-15	1/2"



Centre Open, Pressurized



4V230P-06	1/8"
4V230P-08	1/4"
4V330P-10	3/8"
4V430P-15	1/2"

Pneumatic
& Vacuum
Equipment

Morgren

Valves

Ring Main
Systems

Adaptors
& Fittings

Stainless
Steel

Malleable
Fittings

Jaymac,
Hose, Tubing
& Couplings

Clamps
& Clips

Sprays &
Adhesives

Blow Guns
& Vacuum

Wash Down
& Fuelling

Air Tools

Personal
Protective
Equipment

Tools &
Hardware

Welding

Electrical

Plumbing
& Heating

Festo

Hydraulics

Hydraulic QRC

Pneumatic QRC

Air Prep., Monitor & Test

Pneumatic & Vacuum Equipment

Namur Valves 5/2 Way



Solenoid/Spring



4M310-08

1/4"

4M310-10

3/8"



Solenoid/Solenoid



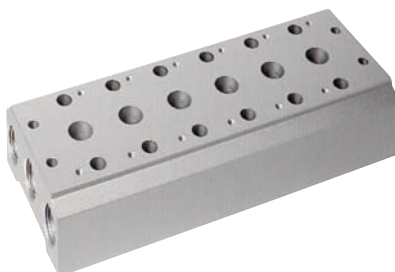
4M320-08

1/4"

4M320-10

3/8"

Valve Manifolds



Series 200, 1/4" BSPP



No. of Stations

200M-1F

1

200M-2F

2

200M-3F

3

200M-4F

4

200M-5F

5

200M-6F

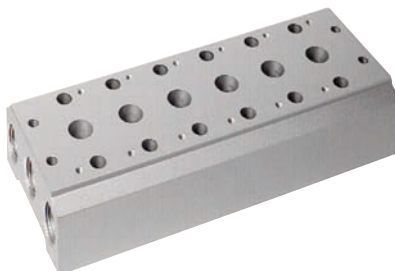
6

200M-8F

8

200M-10F

10



Series 300, 3/8" BSPP



No. of Stations

300M-1F

1

300M-2F

2

300M-3F

3

300M-4F

4

300M-5F

5

300M-6F

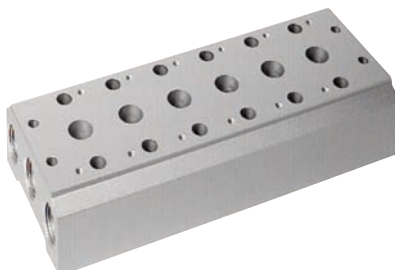
6

300M-8F

8

300M-10F

10



Series 400, 1/2" BSPP



No. of Stations

400M-1F

1

400M-2F

2

400M-3F

3

400M-4F

4

400M-5F

5

400M-6F

6

400M-8F

8

400M-10F

10

Blanking Plates



To Suit

200M-B

200 Series

300M-B

300 Series

400M-B

400 Series

Valve Solenoids & Plugs



Coil & LED Connector



AT-12DC

12V DC

AT-24DC

24V DC

AT-24AC

24V 50/60Hz

AT-110AC

110V 50/60Hz

AT-220AC

220V 50/60Hz

AT-380AC

380V 50/60Hz

Shock Absorbers

- Technical Information:**
- Increase production rates
 - Extend machine life
 - Reduce construction costs
 - Reduce maintenance and noise pollution
 - Sizes available from 6mm diameter up to 230mm diameter
 - Complete with cap



Operational Temperature:
-10°C to +80°C

Full technical specifications available on request

Self Compensating Shock Absorber



High Impact Speed



Max. Energy Absorbed Nm.

Mounting Thread

AC-0806-1	6	2	M8 x 1.0
AC-1005-1	5	3	M10 x 1.0
AC-1008-1	8	4	M10 x 1.0
AC-1210-1	10	5	M12 x 1.0
AC-1412-1	12	15	M14 x 1.5
AC-1416-1	16	20	M14 x 1.5
AC-2020-1	20	40	M20 x 1.5
AC-2050-1	50	60	M20 x 1.5
AC-2525-1	25	80	M25 x 1.5
AC-2540-1	40	120	M25 x 1.5
AC-3660-1	60	250	M36 x 1.5

Medium Impact Speed



Max. Energy Absorbed Nm.

Mounting Thread

AC-0806-2	6	2	M8 x 1.0
AC-1005-2	5	3	M10 x 1.0
AC-1008-2	8	4	M10 x 1.0
AC-1210-2	10	5	M12 x 1.0
AC-1412-2	12	15	M14 x 1.5
AC-1416-2	16	20	M14 x 1.5
AC-2020-2	20	40	M20 x 1.5
AC-2050-2	50	60	M20 x 1.5
AC-2525-2	25	80	M25 x 1.5
AC-2540-2	40	120	M25 x 1.5
AC-3660-2	60	250	M36 x 1.5

Low Impact Speed



Max. Energy Absorbed Nm.

Mounting Thread

AC-0806-3	6	2	M8 x 1.0
AC-1005-3	5	3	M10 x 1.0
AC-1008-3	8	4	M10 x 1.0
AC-1210-3	10	5	M12 x 1.0
AC-1412-3	12	15	M14 x 1.5
AC-1416-3	16	20	M14 x 1.5
AC-2020-3	20	40	M20 x 1.5
AC-2050-3	50	60	M20 x 1.5
AC-2525-3	25	80	M25 x 1.5
AC-2540-3	40	120	M25 x 1.5
AC-3660-3	60	250	M36 x 1.5

Adjustable Shock Absorber



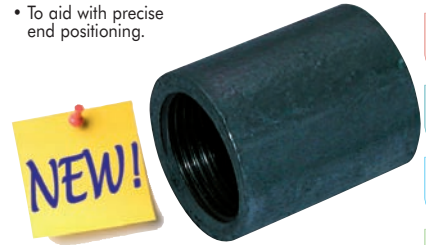
Max. Energy Absorbed Nm.

Mounting Thread

AD-1410	10	20	M14 x 1.5
AD-0216	16	25	M20 x 1.5
AD-2525	25	85	M25 x 1.5
AD-2540	40	100	M25 x 1.5
AD-3650	50	300	M36 x 1.5
AD-4225	25	260	M42 x 1.5
AD-4250	50	500	M42 x 1.5
AD-4275	75	750	M42 x 1.5
AD-64050	50	12000	2.1/2" UNF
AD-64100	100	24000	2.1/2" UNF
AD-64150	150	36000	2.1/2" UNF

Stop Collar

- To aid with precise end positioning.



2120-7352	M8 x 1.0
2120-7360	M10 x 1.0
2120-7378	M12 x 1.0
2120-7386	M14 x 1.5
2120-7394	M20 x 1.5
2120-7402	M25 x 1.5
2120-7444	M25 x 1.5
2120-7428	M36 x 1.5
2120-7451	M36 x 1.5
2120-7469	M42 x 1.5

Pneumatic & Vacuum Equipment

Norgren

Valves

Ring Main Systems

Adaptors & Fittings

Stainless Steel

Malleable Fittings

Jaymac, Hose, Tubing & Couplings

Clamps & Clips

Sprays & Adhesives

Blow Guns & Vacuum

Wash Down & Fuelling

Air Tools

Personal Protective Equipment

Tools & Hardware

Welding

Electrical

Plumbing & Heating

Festo

FOR POWER TOOLS
SEE SECTION 19

Pneumatic Valves

Micro Size, Mechanically Actuated Technopolymer Pneumatic Valves, 5mm Thread & 4mm Push-in Connections, (2/2 & 3/2 NC & NO)



Pushrod



Roller Lever



Lever



Side Ported Options



Temperature Range:
5°C to 50°C



Working Pressure:
2 to 10 bar

Technical Data:

Fluid: Filtered air with or without lubrication
Reference Flow Rate: 75 N l/min
Body Size: 15mm

Materials:

Body: POM
Spring: Stainless Steel
Seals: NBR
Internal Parts: Brass OT 58

Features:

- Lightweight technopolymer
- Installation, body mount in any position
- Low actuation force
- Reduced dimensions
- Speed and signal precision

Full technical specifications available on request

A new range of poppet microvalves, completely made from technopolymer, that have been designed to meet several application needs.

Reduced dimensions, speed and signal precision are some of the features of this new range. Available with an extensive range of actuators in 2 versions, M5 and 4mm push-in fittings.

2/2 Microvalve, M5 Connection, Bottom Ported

0018	Function		
2038-5852		2/2 Normally Closed, Pushrod	M5
2038-6025		2/2 Normally Closed, Roller Lever	M5
2038-6066		2/2 Normally Closed, Lever	M5

3/2 Microvalve, M5 Connection, Bottom Ported

0018	Function		
2038-6074		3/2 Normally Closed, Pushrod	M5
2038-6082		3/2 Normally Open, Pushrod	M5
2038-6090		3/2 Normally Closed, Roller Lever	M5
2038-6108		3/2 Normally Open, Roller Lever	M5

2/2 Microvalve, 4mm Push-in Fittings, Bottom Ported

0018	Function		To Fit Tube Size
2038-6207		2/2 Normally Closed, Roller Lever	4mm Push-in
2038-6223		2/2 Normally Closed, Bulkhead Pushrod	4mm Push-in

3/2 Microvalve, 4mm Push-in Fittings, Bottom Ported

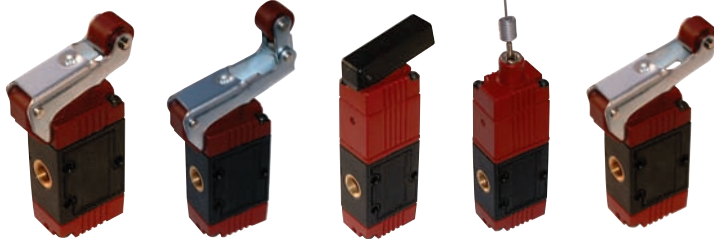
0018	Function		To Fit Tube Size
2038-6256		3/2 Normally Closed, Pushrod	4mm Push-in
2038-6272		3/2 Normally Closed, Roller Lever	4mm Push-in
2038-6280		3/2 Normally Open, Roller Lever	4mm Push-in
2038-6298		3/2 Normally Closed, Uni-directional Roller Lever	4mm Push-in
2038-6314		3/2 Normally Closed, Bulkhead Pushrod	4mm Push-in
2038-6322		3/2 Normally Open, Bulkhead Pushrod	4mm Push-in
2038-6355		3/2 Normally Closed, Lever	4mm Push-in

3/2 Microvalves, 4mm Push-in Fittings, Side Ported

0018	Function		To Fit Tube Size
2064-5693		3/2 Normally Closed, Pushrod	4mm Push-in
2064-5701		3/2 Normally Closed, Bulkhead Pushrod	4mm Push-in
2064-5727		3/2 Normally Closed, Roller Lever	4mm Push-in
2064-5750		3/2 Normally Closed, Lever	4mm Push-in

120 Series, Mechanical & Manual Actuated Technopolymer Spool Valves, 1/8" Connection, (3/2 NC & NO & 5/2)

MECHANICAL



Roller Lever

Uni-directional Roller Lever

Lever

Whisker

Extended Roller Lever

MANUAL



Push Pull

90° Lever

Axial Lever



Temperature Range:
5°C to 50°C



Working Pressure:
Non pilot assisted 0 to 10 bar
Pilot assisted 1 to 10 bar

Technical Data:

Fluid: Filtered air with or without lubrication
Reference Flow Rate: 490 N l/min
Body Size: 22mm

Full technical specifications available on request

Materials:

Operator: Brass, Stainless Steel
Body: Technopolymer
Spring: Stainless Steel
Seals: NBR
Spool: Nickel Plated Aluminium

Mechanical Roller Lever

0018	Function		
2038-6868		3/2 Normally Closed, Pilot Assisted, Roller Lever	1/8"
2038-6876		3/2 Normally Open, Pilot Assisted, Roller Lever	1/8"
2038-7023		5/2 Pilot Assisted, Roller Lever	1/8"

Mechanical Uni-directional Roller Lever

0018	Function		
2038-6843		3/2 Normally Closed, Uni-directional Roller Lever	1/8"

Mechanical Lever

0018	Function		
2038-6900		3/2 Normally Closed, Pilot Assisted, Lever	1/8"
2038-7049		5/2 Pilot Assisted, Lever	1/8"

Mechanical Whisker

0018	Function		
2038-6926		3/2 Normally Closed, Pilot Assisted, Whisker	1/8"
2038-6934		3/2 Normally Open, Pilot Assisted, Whisker	1/8"
2038-7056		5/2 Pilot Assisted, Whisker	1/8"

Mechanical Extended Roller Lever

0018	Function		
2038-6827		3/2 Normally Closed, Roller Lever (Extended)	1/8"
2038-7007		5/2 Roller Lever (Extended)	1/8"

Manual Push Pull

0018	Function		
2038-6470		3/2 Push/Pull, Spring Return	1/8"
2038-6488		3/2 Push/Pull, Detent	1/8"
2038-6538		5/2 Push/Pull, Spring Return	1/8"
2038-6546		5/2 Push/Pull, Detent	1/8"

Manual 90° Lever

0018	Function		
2038-6512		3/2 Lever/Spring	1/8"
2038-6520		3/2 Lever/Detent	1/8"
2038-6678		5/2 Lever/Spring	1/8"
2038-6686		5/2 Lever/Detent, 2 Position	1/8"
2038-6694		5/3 Lever/Detent, Closed Centres	1/8"
2038-6702		5/3 Lever/Detent, Open Centres	1/8"
2038-6728		5/3 Lever/Spring, Closed Centres	1/8"
2038-6736		5/3 Lever/Spring, Opened Centres	1/8"

Manual Axial Lever

0018	Function		
2038-6496		3/2 Lever/Spring	1/8"
2038-6504		3/2 Lever/Detent	1/8"
2038-6595		5/2 Lever/Spring	1/8"
2038-6603		5/2 Lever/Detent	1/8"
2038-6611		5/3 Lever/Detent, Closed Centres	1/8"
2038-6629		5/3 Lever/Detent, Open Centres	1/8"
2038-6645		5/3 Lever/Spring, Closed Centres	1/8"
2038-6652		5/3 Lever/Spring, Opened Centres	1/8"

Pneumatic & Vacuum Equipment

Morgren

Valves

Ring Main Systems

Adaptors & Fittings

Stainless Steel

Malleable Fittings

Jaymac, Hose, Tubing & Couplings

Clamps & Clips

Sprays & Adhesives

Blow Guns & Vacuum

Wash Down & Fuelling

Air Tools

Personal Protective Equipment

Tools & Hardware

Welding

Electrical

Plumbing & Heating

Festo

Panel Mount Technopolymer Valves with Choice of Actuating Head, 1/8", 5mm Threaded Port & 4mm Push-in Connection (2/2, 3/2 & 5/2)



Temperature Range:
5°C to 50°C



Working Pressure:
M5 and 4mm Push-in = 2 to 10 bar
1/8" = 1 to 10 bar

Technical Data:

Fluid: Filtered air with or without lubrication
Reference M5 and 4mm = 75 N l/min
Flow Rate: 1/8" = 490 N l/m
Body Size: M5 and 4mm = 15mm
1/8" = 22mm

Materials:

Body: POM
Spring: Stainless Steel
Seals: NBR
Internal Parts: Brass OT 58

Features:

- Lightweight technopolymer
- Easy installation
- Low actuation force

Full technical specifications available on request



Panel Mount Valves

0018	Function	Port Size
2038-6058	2/2 Normally Closed, For Panel Mount	M5
2038-6231	2/2 Normally Closed, For Panel Mount	4mm Push-in
2038-6157	3/2 Normally Closed, For Panel Mount	M5
2038-6165	3/2 Normally Open, For Panel Mount	M5
2038-6330	3/2 Normally Closed, For Panel Mount	4mm Push-in

Threaded Bottom Ports

Threaded Side Ports

Push-in Side Ports

0018	Function	Port Size
2038-6348	3/2 Normally Open, For Panel Mount	4mm Push-in
2038-6942	3/2 Normally Closed, Pilot Assisted, For Panel Mount	1/8"
2038-6959	3/2 Normally Open, Pilot Assisted, For Panel Mount	1/8"
2038-7064	5/2 Pilot Assisted, For Panel Mount	1/8"
2064-5768	3/2 Normally Closed, for Panel Mount	Side Ported, 4mm Push-in



Key Selector



Short Lever



Long Lever



Push Button



40mm Mushroom

Actuators

0018	Function
2038-7296	2 Position, Key Selector
2038-7304	2 Position, Manual Return Short Lever
2038-7346	2 Position, Manual Return Long Lever
2038-7387	3 Position, Spring Return Long Lever
2038-7395	Red, Protected Push Button
2038-7403	Black, Protected Push Button

0018	Function
2038-7411	White, Protected Push Button
2038-7445	Green, Protected Push Button Replacement Cap
2038-7510	Red, 40mm Axial Mushroom Push Button
2038-7528	Black, 40mm Axial Mushroom Push Button
2038-7585	Red, 40mm Push Lock/Twist to Reset, Mushroom
2038-7593	Red, 60mm Push Lock/Twist to Reset, Mushroom

130 Series Spool Valves, 1/8", 1/4" & 1/2" Ported, Manifold Mountable & Single Use (3/2 NC & NO, 5/2 & 5/3)



Working Pressure:

3/2 & 5/2 Non Solenoid Pilot Assisted = 1.5 to 8 bar
5/3 Non Pilot Assisted = 2 to 7 bar
5/3 Solenoid Pilot Assisted = 0.9 to 8 bar

Materials:

Body: Aluminium
Seals: NBR
Spool: Nickel Plated Aluminium

Features:

- Manifold Mountable
- Installation in any position
- Compact body size

Technical Data:

Actuating Pressure: Solenoid Pilot Assisted Valves Only (1.5 to 8 bar)
Reference Flow Rate: 700 NI/min 1/2" = 2700 NI/min
Manual Override: Mono-bi-stable

Full technical specifications available on request

NOTE: Exhaust ports on 130 series 1/4" ported valves are 1/8". Includes balanced spool valves, available in 3 different sizes 1/8", 1/4" and 1/2" which are characterised by outstanding performance, considering the particularly reduced dimensions. All the models are suitable both for single use and on manifolds, thus making their use extremely flexible and ideal for complex installations.



Solenoid Spring



Solenoid/Solenoid



Coil



Plug

1/8" Solenoid Valves

0018	Function	
2038-7601		3/2 Solenoid/Mech Spring, Normally Closed
2038-7619		3/2 Solenoid/Mech Spring, Normally Open
2040-6112		3/2 Solenoid Pilot/Mech Spring, Normally Closed
2038-7643		5/2 Solenoid/Mech Spring
2038-7650		5/2 Solenoid/Solenoid
2038-7668		5/2 Solenoid Pilot/Mech Spring
2038-7684		5/3 Solenoid/Solenoid, Spring Return to Closed Centres
2038-7692		5/3 Solenoid/Solenoid, Spring Return to Open Centres
2038-7726		5/3 Solenoid Pilot/Solenoid Pilot, Spring to Open Centre

Coils (1/8" Valve)

0018	
2039-7196	17mm Coil, 24V DC
2039-7204	17mm Coil, 24V AC 50/60HZ
2039-7212	17mm Coil, 110V AC 50/60HZ
2039-7220	17mm Coil, 220V AC 50/60HZ

17mm Connector

0018	
2040-6104	17mm Connector

1/4" Solenoid Valves

0018	Function	
2038-7965		3/2 Solenoid/Mechanical Spring, Normally Closed
2038-7973		3/2 Solenoid/Mechanical Spring, Normally Open
2038-7999		3/2 Solenoid Pilot/Mech Spring, Normally Closed
2038-8005		3/2 Solenoid Pilot/Mech Spring, Normally Open
2038-8021		5/2 Solenoid/Mech Spring
2038-8039		Solenoid/Solenoid
2038-8047		5/2 Solenoid Pilot/Mech Spring
2038-8054		5/2 Solenoid Pilot/Solenoid Pilot
2038-8062		5/3 Solenoid/Solenoid, Spring to Closed Centre

1/2" Solenoid Valves

0018	Function	
2039-6834		3/2 Solenoid/Mechanical Spring, Normally Closed
2039-6842		3/2 Solenoid/Mechanical Spring, Normally Open
2039-6867		3/2 Solenoid Pilot/Mech Spring, Normally Closed
2039-6875		3/2 Solenoid Pilot/Mech Spring, Normally Open
2039-6891		5/2 Solenoid/Mech Spring
2039-6909		Solenoid/Solenoid
2039-6917		5/2 Solenoid Pilot/Mech Spring
2039-6933		5/3 Solenoid/Solenoid, Spring to Closed Centre

Coils (1/4" Valve)

0018	
2039-7238	22mm Coil, 24V DC
2039-7253	22mm Coil, 24V AC 50/60HZ
2039-7279	22mm Coil, 110V AC 50/60HZ
2039-7287	22mm Coil, 220V AC 50/60HZ

22mm Connector

0018	
2039-7295	22mm Connector

Pneumatic & Vacuum Equipment

Morgren

Valves

Ring Main Systems

Adaptors & Fittings

Stainless Steel

Malleable Fittings

Jaymac, Hose, Tubing & Couplings

Clamps & Clips

Sprays & Adhesives

Blow Guns & Vacuum

Wash Down & Fuelling

Air Tools

Personal Protective Equipment

Tools & Hardware

Welding

Electrical

Plumbing & Heating

Festo

Pneumatically Piloted Technopolymer Valves, 1/8" Connection (3/2 NC & NO, 5/2 & 5/3)



Temperature Range:
5°C to 50°C



Working Pressure:
0 to 10 bar

Request Tech-Sheet No. 1343 for Technical Information.

Pilot Valves

0018	Function		
2038-6371		3/2 Pilot/Spring, Normally Closed	1/8"
2038-6389		3/2 Pilot/Spring, Normally Open	1/8"
2038-6397		5/2 Pilot/Pilot	1/8"
2038-6413		5/2 Pilot/Mech Spring	1/8"
2038-6421		5/2 Pilot/Pilot	1/8"
2038-6439		5/2 Pilot Priority/Pilot	1/8"



3/2 Pilot/Spring



5/2 Pilot/Mech Spring



5/2 Pilot/Pilot

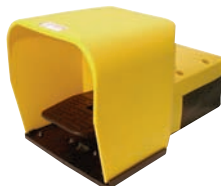
120 Series Solenoid Valves, 1/8" Ported, Manifold Mountable & Single Use (3/2 NC & NO)

22mm Coils on page 309 used with these valves.

0018	Function		
2064-6220		3/2 Solenoid/Mech Spring, Normally Closed	1/8"
2064-6238		5/2 Solenoid/Mech Spring	1/8"
2064-6253		5/3 Solenoid/Solenoid Spring Return to Closed Centre	1/8"



Pneumatic & Electrical Foot Pedals



Guarded Pedal Valve



Non-guarded Pedal Valve



Non-guarded Micro-Pedal Valve

5/2 Pneumatic Foot Pedals

0018	Function		
2064-5776		5/2 Guarded Pedal Valve	1/4"
2064-5784		5/2 Non-guarded Pedal Valve	1/4"

3/2 Pneumatic Foot Pedals

0018	Function		To Fit Tube Size
2064-5792		3/2 Micro-Pedal Valve	4mm Push-in
2064-5800		3/2 Guarded Pedal Valve	4mm Push-in

Electric Foot Pedal

0018			
2064-5818		Normally Closed & Normally Open Guarded Electric Pedal Valve	24V AC-10amps/ 220V AC-6amps

Pneumatically Piloted Valves, 1/8", 1/4" & 1/2" Connection Manifold Mountable & Single Use (3/2 NC & NO, 5/2 & 5/3)



Working Pressure:
0 to 8 bar

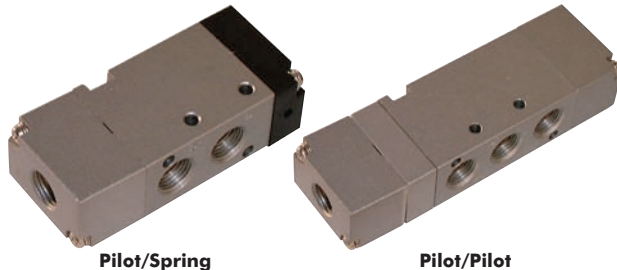
Technical Data:

Operating Pressure: 1.5 to 8 bar
Reference Flow Rate:
700 NI/min 1/2" = 2700 NI/min

Features:

- Manifold mountable
- Installation in any position
- Compact body size

Full technical specifications available on request



Pilot/Spring

Pilot/Pilot

1/8" Pilot Valves



2038-7767		3/2 Pilot Priority/Mech Spring, Normally Closed
2038-7775		3/2 Pilot Priority/Mech Spring, Normally Open
2038-7791		5/2 Pilot Priority/Mech Spring
2038-7809		5/2 Pilot/Pilot
2038-7817		5/3 Pilot/Pilot, Spring to Closed Centre

1/4" Pilot Valves

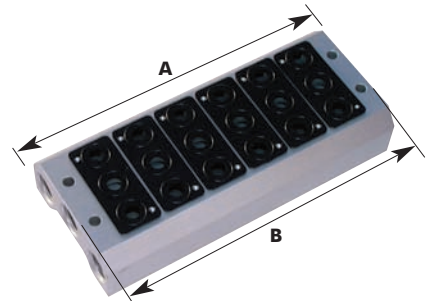


2039-6602		3/2 Pilot/Mech Spring, Normally Closed
2039-6628		3/2 Pilot/Mech Spring, Normally Open
2039-6644		3/2 Pilot/Pilot
2039-6651		5/2 Pilot/Mech Spring
2039-6677		5/2 Pilot/Pilot
2039-6693		5/3 Pilot/Pilot, Spring to Closed Centre

1/2" Pilot Valves



2039-7006		3/2 Pilot/Mech Spring, Normally Closed
2039-7022		3/2 Pilot/Pilot
2039-7030		5/2 Pilot/Mech Spring
2039-7048		5/2 Pilot/Pilot



1/8" Valve Manifold



2038-7908	No. of Stations	A mm	B mm
	8	171	161

1/4" Valve Manifold

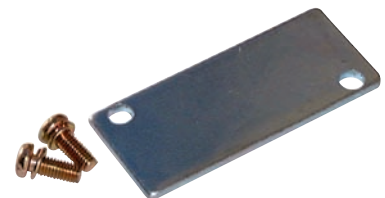


2039-6727	No. of Stations	A mm	B mm
2039-6735	2	69	57
2039-6743	3	92	80
	4	115	103

1/2" Valve Manifold



2039-7105	No. of Stations	A mm	B mm
	4	143	133



1/8" Blanking Plate Kit



2038-7932	Blanking Plate Kit
------------------	--------------------

1/4" Blanking Plate Kit



2039-6818	Blanking Plate Kit
2039-6826	Screw for Blanking Plate

Pneumatic & Vacuum Equipment

Norgren

Valves

Ring Main Systems

Adaptors & Fittings

Stainless Steel

Malleable Fittings

Jaymac, Hose, Tubing & Couplings

Clamps & Clips

Sprays & Adhesives

Blow Guns & Vacuum

Wash Down & Fuelling

Air Tools

Personal Protective Equipment

Tools & Hardware

Welding

Electrical

Plumbing & Heating

Festo

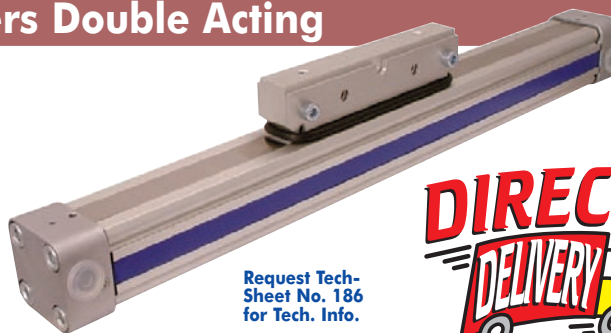


Pneumatic Cylinders

Rodless Cylinders Double Acting

The OPL cylinder can easily be integrated into each construction. As a standard the cylinder is equipped with a self-guiding carrier, magnetic piston and dovetail rails on three sides. This profile allows fitting of mountings and a wide range of modular accessories onto the cylinder itself. For applications requiring slow displacement speeds, an optional slow speed version is available, for smooth and slip-stick free operation with velocities between 0.0005 to 0.2 ms

- Space saving design
- Manufactured to any stroke length in 1mm increments
- Supports high direct and off-set loads
- Equal Force in both directions
- Equal Performance in both directions
- Forms a structural and space saving element of a machine design
- Suitable for a wide range of operating speeds
- Exceptional reliability
- Simple construction
- Easy maintenance
- Long life 6000 Km
- Optimized cylinder profile with extremely high rigidity and low mass
- Double acting with cushioning position sensing capability



Request Tech-Sheet No. 186 for Tech. Info.

Materials

Cylinder Profile: Anodized Aluminum
Carrier: Anodized Aluminum
End Caps: Lacquered Aluminum
Sealing Band: Corrosion Resistant Steel
Seals: NBR
Wipers: Plastic
Medium: Filtered Compressed Air



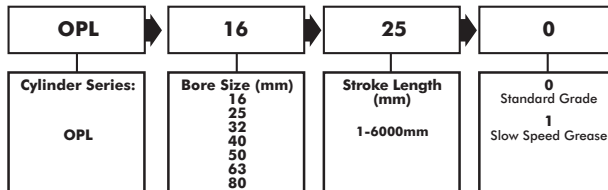
Temperature Range:
-10°C to +80°C
(Other temperature ranges
available on request)



Pressure Range:
0.5 to 8.0 bar

Create your Part Number from the Chart below

ORDERING EXAMPLE



NOTE: Increased carriage prices will apply for stroke length over 2200mm (Price on application).

PRICE TABLE

Core Cylinder Price		Price Per 100mm Stoke	Price Slow Speed Grease
16 mm			
25mm			
32mm			
40mm			
50mm			
63mm			
80mm			

NOTE: Stroke charged in increments of 100mm.



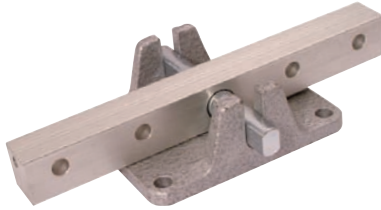
PRICE EXAMPLES

Cylinder Series	BORE	Stroke	Slow Speed	TOTAL
OPL	16	300	1	

Cylinder Series	BORE	Stroke	Standard Speed	TOTAL
OPL	63	500	0	

Delivery Time: 2-3 working days from receipt of order (5-7 days – outside UK)

Clevis Mounting



21055



25

Inversion Mounting

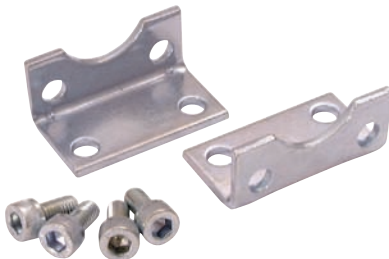


6510



63

End Cap Mounting



Type A1



20408



16

Switches & Accessories



Reedswitch Type



KL3048



RS-K, Opener, 5m Cable

Electric Sensor Type



10751



ES-S, NPN with 5m Cable

Type C1



5010



50

Pneumatic & Vacuum Equipment

Norgren

Valves

Ring Main Systems

Adaptors & Fittings

Stainless Steel

Malleable Fittings

Jaymac, Hose, Tubing & Couplings

Clamps & Clips

Sprays & Adhesives

Blow Guns & Vacuum

Wash Down & Fuelling

Air Tools

Personal Protective Equipment

Tools & Hardware

Welding

Electrical

Plumbing & Heating

Festo