

Kushako®



Pneumatic Automation Products for Sugar Centrifugal Machines

***Kushako** itself means performance . . .*

SOLENOID VALVE 3/2 WAY



SPECIFICATIONS	
Type	3 way Poppet type pilot operated solenoid valve with m/o
Working Pr	2-10 Bar
Size	1/4" BSP (F)
Media	Compressed Air
Model	K-312-S
Voltages	230 VAC / 24 VDC
Material	Alu Hard Anodized

CONTROL VALVE



SOLENOID VALVE 5/2 WAY SINGLE



SPECIFICATIONS	
Type	4 way Poppet type pilot operated solenoid valve with m/o
Working Pr	2-10 Bar
Size	1/4" BSP (F)
Media	Compressed Air
Model	K-412-S
Voltages	230 VAC / 24 VDC
Material	Alu Hard Anodized

SPECIFICATIONS	
Type	Normally open/closed
Working Pr	2.5-10 Bar
Size	3/4" to 2" NB
Trim Parts	SS 304
Media	Air, Water, Steam, Oil
Material	Cast Iron

SOLENOID VALVE 5/2 WAY DOUBLE



SPECIFICATIONS	
Type	4 way Poppet type pilot operated double solenoid valve with m/o
Working Pr	2-10 Bar
Size	1/4" BSP (F)
Media	Compressed Air
Model	K-412-D
Voltages	230 VAC / 24 VDC
Material	Alu Hard Anodized

4 WAY X 3 VALVE GANG MANIFOLD



3 WAY X 6 VALVE GANG MANIFOLD





MTC CYLINDER

SPECIFICATIONS	
Type	Single Acting
Working Pr.	1-10 Bar
Port	1/8" BSP (F)
Bore	5/8" (16mm)
Stroke	25mm
Media	Compressed Air
Material	Brass



PLOUGH LOCK CYLINDER

SPECIFICATIONS	
Type	Single Acting
Working Pr.	1-10 Bar
Port	1/8" BSP (F)
Bore	1" (25.4mm)
Stroke	30mm
Media	Compressed Air
Material	Brass



VAPOUR CYLINDER

SPECIFICATIONS	
Type	Single Acting
Working Pr.	1-10 Bar
Port	1/4" BSP (F)
Bore	1 1/2"
Stroke	120mm
Media	Compressed Air
Material	Aluminium



HOOD CYLINDER

SPECIFICATIONS	
Type	Double Acting
Working Pr.	1-10 Bar
Port	3/8" BSP (F)
Bore	4"
Stroke	190mm
Media	Compressed Air
Material	Aluminium



HOOD CYLINDER

SPECIFICATIONS	
Type	Double Acting
Working Pr.	1-10 Bar
Port	3/8" BSP (F)
Bore	5"
Stroke	220mm
Media	Compressed Air
Material	Cast Iron



PLOUGH IN/OUT CYLINDER

SPECIFICATIONS	
Type	Double Acting
Working Pr.	1-10 Bar
Port	1/4" BSP (F)
Bore	6"
Stroke	200mm
Media	Compressed Air
Material	Cast Iron



BRAKE CYLINDER

SPECIFICATIONS	
Type	Single Acting
Working Pr.	1-10 Bar
Port	3/8" BSP (F)
Bore	4"
Stroke	45mm
Media	Compressed Air
Material	Aluminium



DIRECTION CONTROL VALVE

SPECIFICATIONS	
Type	Hand Lever Valve
Working Pr	1-10 Bar
Size	1/4" & 1/2" BSP (F)
Media	Compressed Air
Material	Alu Anodized



BOTTOM HOOD CYLINDER

SPECIFICATIONS	
Type	Double Acting
Working Pr	1-10 Bar
Port	3/8" BSP (F)
Bore	6"
Stroke	215mm (8 1/2")
Media	Compressed Air
Material	SS 304



ROTARY

SPECIFICATIONS	
Type	Rotary Valve
Working Pr	1-10 Bar
Trim Parts	SS 304
Media	Compressed Air
Material	Brass Body



FEEDING CHUTE CYLINDER

SPECIFICATIONS	
Type	Double Acting
Working Pr	1-10 Bar
Port	1/4" BSP (F)
Bore	50 mm
Stroke	50 mm
Media	Compressed Air
Material	Aluminium



PLOUGH BRAKE CYLINDER

SPECIFICATIONS	
Type	Double Acting
Working Pr	1-10 Bar
Port	3/8" BSP (F)
Bore	75 mm
Stroke	50 mm
Media	Compressed Air
Material	Aluminium



PLOUGH IN / OUT CYLINDER

SPECIFICATIONS	
Type	Double Acting
Working Pr	1-10 Bar
Port	1/2" BSP (F)
Bore	5"
Stroke	225 mm
Media	Compressed Air
Material	Cast Iron



PLOUGH UP / DOWN CYLINDER

SPECIFICATIONS	
Type	Double Acting
Working Pr	1-10 Bar
Port	1/2" BSP (F)
Bore	5"
Stroke	600 mm
Media	Compressed Air
Material	Cast Iron



PLOUGH UP / DOWN CYLINDER

SPECIFICATIONS	
Type	Double Acting
Working Pr.	1-10 Bar
Port	1/2" BSP (F)
Bore	100mm
Stroke	600mm
Media	Compressed Air
Material	Aluminium



HOOD CYLINDER

SPECIFICATIONS	
Type	Single Acting
Working Pr.	1-10 Bar
Port	1/4" BSP (F)
Bore	6"
Stroke	150mm
Media	Compressed Air
Material	Cast Iron



PLOUGH IN / OUT CYLINDER

SPECIFICATIONS	
Type	Double Acting
Working Pr.	1-10 Bar
Port	1/4" BSP (F)
Bore	125mm
Stroke	200mm
Media	Compressed Air
Material	Cast Iron



MTC CYLINDER

SPECIFICATIONS	
Type	Single Acting
Working Pr	1-10 Bar
Port	1/8" BSP (F)
Bore	16mm
Stroke	25mm
Media	Compressed Air
Material	Aluminium



LOCK CYLINDER

SPECIFICATIONS	
Type	Single Acting
Working Pr	1-10 Bar
Port	M 5
Bore	1"
Stroke	25mm
Media	Compressed Air
Material	Aluminium



Spring for Bottom Hood Cylinder

RUBBER SEAL KIT



Up Down / In Out / Hood / MTC / Brake / Lock Cylinders

PNEUMATIC OPERATED CONTROL VALVE

Y TYPE CONTROL VALVE



SPECIFICATIONS	
Type	2/2 Way NO/NC
Working Pr	10 Bar Max
Size	1/2 to 2" Flange / Screwed End
Trim Parts	SS
Media	Air, Water, Oil, Steam
Material	SS 304/316



BALL VALVE WITH ACTUATOR

SPECIFICATIONS	
Type	2/2 Way NC/NO
Working Pr	10 Bar Max
Size	1/2 to 2" Screwed/ Flange End
Trim Parts	SS
Media	Air, Water, Oil, Steam
Material	SS 304/316

GLOBE VALVE



SPECIFICATIONS	
Type	2/2 NC
Working Pr	10 Bar
Size	20 NB / 25 NB
Trim Parts	SS 304
Media	Steam, Air, Water
Material	CI - Flange End



GATE VALVE

SPECIFICATIONS	
Type	2 / 2 NC
Working Pr	10 Bar Max
Size	15 to 25 NB Flange
Trim Parts	SS
Media	Gun Metal
Material	Steam, Water, Air

NRV GUN METAL



SPECIFICATIONS	
Type	2 / 2 Way
Working Pr	10 Bar
Size	15 NB / 20 NB / 25 NB
Trim Parts	SS
Media	Air, Water, Steam, Oil
Material	Gun Metal



Y - TYPE STRAINER

SPECIFICATIONS	
Type	2/2 Way Flange End
Working Pr	10 Bar
Size	20 NB / 25 NB
Trim Parts	SS
Media	Air, Water, Steam
Material	Cast Iron

PROXIMITY SWITCH



Voltage 10 - 30 VDC
Cable Length upto 10m

BALL VALVE - SS / BRASS



Size: 1/2" - 2"
Body: SS / Brass
Working Pr: To Bar Max

NON RETURN VALVE



N.R.V. 1/4" - 1/2"
BSP (F)

FLOW CONTROL VALVE



N.R.V. 1/4" - 1/2"
BSP (F)



AIR FILTER

SPECIFICATIONS	
Working Pr	0.5 - 10 Bar
Size	1/4"-2" BSP (F)
Media	Compressed Air
Material	Aluminium Casting



AIR PRESSURE REGULATOR

SPECIFICATIONS	
Working Pr	0.5 - 10 Bar
Size	1/4"-2" BSP (F)
Media	Compressed Air
Material	Aluminium Casting



LUBRICATOR

SPECIFICATIONS	
Working Pr	0.5 - 10 Bar
Size	1/4"-2" BSP (F)
Media	Compressed Air
Material	Aluminium Casting



FRL UNIT (2 PIECES)

SPECIFICATIONS	
Working Pr	0.5 - 10 Bar
Size	1/4"-2" BSP (F)
Media	Compressed Air
Material	Aluminium Casting



AIR FILTER / REGULATOR COMBINATION

SPECIFICATIONS	
Working Pr	0.5 - 10 Bar
Size	1/4"-2" BSP (F)
Media	Compressed Air
Material	Aluminium Casting



FRL UNIT (3 PIECES)

SPECIFICATIONS	
Working Pr	0.5 - 10 Bar
Size	1/4"-2" BSP (F)
Media	Compressed Air
Material	Aluminium Casting



MOISTURE SEPARATOR

SPECIFICATIONS	
Working Pr	0.5 - 10 Bar
Size	1/4"-2" BSP
Media	Compressed Air
Material	Aluminium Casting



QUICK EXHAUST VALVE

SPECIFICATIONS	
Working Pr	0.5 - 10 Bar
Size	1/4" / 1/2" BSP (F)
Media	Compressed Air
Material	Aluminium Anodised

ACCESSORIES



1/2" - 2" BSP (F)
Diaphragm Solenoid Valve



1/2" - 1" BSP (F)
Automatic Drain Vale



3/4" - 2" BSP (F)
Pulse Jet Valve



1/2" - 2" BSP (F)
S S Diaphragm Solenoid Valve



Seal Kit Control Valve
20 NB / 25 NB



Core Tube + Plunger Assembly

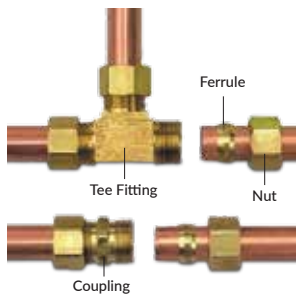


Solenoid Coil
24 VDC / 230 VAC



Control Valve
Spring Set

BRASS PIPE & FITTINGS



Copper Tube



Hydraulic / Pneumatic Hose Assembly



Coil Hose PU Tube

Kushako

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