

A total pneumatic system solution



Goyen's pneumatic control valve range is manufactured to ISO9001 standards that ensures quality assurance in design, development and production. Goyen have been manufacturing and supplying quality pneumatic products to the Australian market for over 60 years. Our success has been based on providing quality products, on time and at a competitive price, backed by customers service that is second to none.

Goyen's pneumatic control valve range includes solenoid and air pilot operated valves, in a standard range of switching positions, size and coil voltages, poppet and lever, foot activated manual air valves, quick exhaust and hold back valves as well as ISO 5599 base mounted valves.

In addition to the products detailed in this catalogue, Goyen manufactures and supplies a comprehensive range of pneumatic products aimed at providing users with total system solutions.

Single Piloted Valves

Goyen's single piloted valves are supplied with internal air return as standard. Spring return or spring and air return are optional.

Solenoid Valves

Goyen solenoid valves are supplied with a monostable manual test as standard. Bistable manual test or no manual test are optional.

Pneumatic Control Valves

Solenoid Pilot Spool Valves

Description	P/n	Operator	Port/Pos.	Port Size	Op. Press (kPa)
1/4" Ports	6TSS3/2*	Single Pilot	3/2	1/4	250-1000
1/4" Ports	6TDS3/2*	Double Pilot	3/2	1/4	250-1000
1/4" Ports	6TSS5/2*	Single Pilot	5/2	1/4	250-1000
1/4" Ports	6TDS5/2*	Double Pilot	5/2	1/4	250-1000
1/4" Ports	6TDS5/3P*	Double Pilot	5/3PC	1/4	300-1000
1/4" Ports	6TDS5/3C*	Double Pilot	5/3CC	1/4	300-1000
1/2" Ports	12TSS3/2*	Single Pilot	3/2	1/2	250-1000
1/2" Ports	12TDS3/2*	Double Pilot	3/2	1/2	250-1000
1/2" Ports	12TSS5/2*	Single Pilot	5/2	1/2	250-1000
1/2" Ports	12TDS5/2*	Double Pilot	5/2	1/2	250-1000
1/2" Ports	12TDS5/3P*	Double Pilot	5/3 PC	1/2	300-1000
1/2" Ports	12TDS5/3C*	Double Pilot	5/3 CC	1/2	300-1000

* See Coil Selection table

Pilot Air Valves - 3/2

Model	Model (Built in flow control)	Number of Valves Manifoldd Together	Operator	Port Size	Operating Pressure (kPa)
PAV	PAV1-M	1	Direct Solenoid	1/4	0-1000
PAV-2	PAV2-M	2	Direct Solenoid	1/4	0-1000
PAV-3	PAV3-M	3	Direct Solenoid	1/4	0-1000
PAV-4	PAV4-M	4	Direct Solenoid	1/4	0-1000
PAV-5	PAV5-M	5	Direct Solenoid	1/4	0-1000
PAV-6	PAV6-M	6	Direct Solenoid	1/4	0-1000

Repair Kits

Number	Description	Port/Pos.	Port Size
KM636	Single Solenoid and Single Air	3/2 and 5/2	1/4 and 1/2
KM689	Double Solenoid and Double Air	3/2 and 5/2	1/4 and 1/2
KM686	Double Solenoid and Double Air	5/3PC and 5/3CC	1/4 and 1/2
KM1797	Plunger Kit (per solenoid)		
KM1699	Plunger and Ferrule Kit		
KM1939	Lever Dust Boot		
KM393	Lever/Foot Valve Seal Kit		
KM703	Poppet Valve Seal Kit		

PC = All Ports Closed

CC = Load Ports Open to Exhaust

Port threads standard in 'G' and 'NPT'

Typical Flow Rates at 700 kPa (100 PSI)

Spool valves: G1/4" 1200 l/min (40cfm), G1/2" 3400 l/min (120 cfm)

Direct Lift Valves: PAV 250 l/min (9 cfm)

Poppet Valves: IN-CYL 650 l/min (23 cfm), CYL-EX 310 l/min (11cfm)

Operating Temperature Range: All Valves -20C to +50C

A total pneumatic system solution



6TDA5/2

ISO5599 Interface Solenoid Valves

Description	P/n	Operator	Port/Pos.	Op. Press (kPa)
ISO size 2	10ISS5/2*	Single Pilot	5/2	250-1000
ISO size 2	10ISD5/2*	Double Pilot	5/2	250-1000
ISO size 2	10IDS5/3P*	Double Pilot	5/3 PC	300-1000
ISO size 2	10IDS5/3C*	Double Pilot	5/3 CC	300-1000

* Nominate coil voltage

Air Piloted Valves - 1/4" and 1/2"

Description	P/n	Operator	Port/Pos.	Port Size		Op. Press (kPa)	
				Main	Pilot	Main	Pilot
1/4" Ports	6TSA3/2	Single Pilot	3/2	1/4	1/4	250-1000	250-1000
1/4" Ports	6TDA3/2	Double Pilot	3/2	1/4	1/4	0-1000	250-1000
1/4" Ports	6TSA5/2	Single Pilot	5/2	1/4	1/4	250-1000	250-1000
1/4" Ports	6TDA5/2	Double Pilot	5/2	1/4	1/4	0-1000	250-1000
1/4" Ports	6TDA5/3P	Double Pilot	5/3 PC	1/4	1/4	0-1000	300-1000
1/4" Ports	6TDA5/3C	Double Pilot	5/3 CC	1/4	1/4	0-1000	300-1000
1/2" Ports	12TSA3/2	Single Pilot	3/2	1/2	1/4	250-1000	250-1000
1/2" Ports	12TDA3/2	Double Pilot	3/2	1/2	1/4	0-1000	250-1000
1/2" Ports	12TSA5/2	Single Pilot	5/2	1/2	1/4	250-1000	250-1000
1/2" Ports	12TDA5/2	Double Pilot	5/2	1/2	1/4	0-1000	250-1000
1/2" Ports	12TDA5/3P	Double Pilot	5/3PC	1/2	1/4	0-1000	300-1000
1/2" Ports	12TDA5/3C	Double Pilot	5/3CC	1/2	1/4	0-1000	300-1000

Port threads standard in 'G' and 'NPT'

Coil Selection Table

Coil Voltage	Coil P/n	Explosion Proof Coil P/N
240 50Hz	7043	4D41
110 50/60Hz	7093	4D91
24 50/60Hz	7023	4D21
12DC	70D7	4DD7
24DC	7027	4D27
Connection Type	DIN Terminal Box	Flying lead connection only

Pneumatic Control Valves



Pneumatic Control Valves

Poppet Valves - Manually Operated

P/n	Operator	Port/Pos.*	Port Size	Op. Press (kPa)
LPP3	Lever	3/2	1/4	0-1000
BPP3	Push Button	3/2	1/4	0-1000
FPP3	Foot/Palm Button	3/2	1/4	0-1000
RBP3	Roller Ball	3/2	1/4	0-1000
TP3	Tappet	3/2	1/4	0-1000
AP3	Air Piloted	3/2	1/4	0-1000**
LBP3	Lever Button	3/2	1/4	0-1000
CP3	Cam	3/2	1/4	0-1000
TCP3	Trip Cam	3/2	1/4	0-1000

* Also available in 2-way

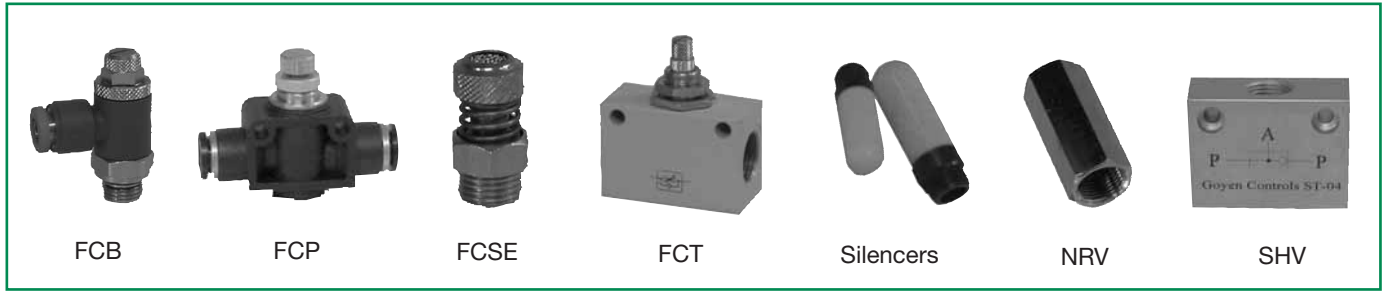
** 275 kPa minimum pilot pressure for 1000 kPa main pressure.

Spool Valves Manually Operated

P/n	Operator	Port/Pos.	Port Size	Op. Press (kPa)
6TF3/2S	Foot	3/2 Spring Ret.	1/4	0-1000
6TF5/2S	Foot	5/2 Spring Ret.	1/4	0-1000
12TF3/2S	Foot	3/2 Spring Ret.	1/2	0-1000
12TF5/2S	Foot	5/2 Spring Ret.	1/2	0-1000
6TL3/2L	Lever	3/2 Detent	1/4	0-1000
6TL3/2S	Lever	3/2 Spring Ret.	1/4	0-1000
6TL5/2L	Lever	5/2 Detent	1/4	0-1000
6TL5/2S	Lever	5/2 Spring Ret.	1/4	0-1000
6TL5/3P	Lever	5/3 PC Spring Ret.	1/4	0-1000
6TL5/3C	Lever	5/3 CC Spring Ret.	1/4	0-1000
6TL5/3PL	Lever	5/3 PC Detent	1/4	0-1000
6TL5/3CL	Lever	5/3 CC Detent	1/4	0-1000
12TL3/2L	Lever	3/2 Detent	1/2	0-1000
12TL3/2S	Lever	3/2 Spring Ret.	1/2	0-1000
12TL5/2L	Lever	5/2 Detent	1/2	0-1000
12TL5/2S	Lever	5/2 Spring Ret.	1/2	0-1000
12TL5/3P	Lever	5/3 PC Spring Ret.	1/2	0-1000
12TL5/3C	Lever	5/3 CC Spring Ret.	1/2	0-1000
12TL5/3PL	Lever	5/3 PC Detent	1/2	0-1000
12TL5/3CL	Lever	5/3 CC Detent	1/2	0-1000
6TB3/2	Button	3/2	1/4	0-1000
6TB3/2L	Button	3/2 Lockable	1/4	0-1000
6TB5/2	Button	5/2	1/4	0-1000
6TB5/2L	Button	5/2 Lockable	1/4	0-1000
12TB3/2	Button	3/2	1/2	0-1000
12TB3/2L	Button	3/2 Lockable	1/2	0-1000
12TB5/2	Button	5/2	1/2	0-1000
12TB5/2L	Button	5/2 Lockable	1/2	0-1000

Port threads standard in 'G' and 'NPT'

Pneumatic Control Valves



Ancillary Controls

Flow Control Banjo at Cylinder Port - Type FCB

Model No.	Thread Size	Tube O.D. mm
FCB-1/8-4	G1/8	4
FCB-1/4-6	G1/4	6
FCB-1/4-8	G1/4	8
FCB-1/2-12	G1/2	12

Flow Control in the Line - Push-in Tube Connections - Type FCP

Model No.	Tube O.D. mm
FCP-4	4
FCP-6	6
FCP-8	8
FCP-12	12

Flow Control in the Line - Threaded Connections - Type FCT

Model No.	Thread Size
FCT-1/8	G1/8
FCT-1/4	G1/4
FCT-1/2	G1/2

Flow Control/Silencer at Valve Exhaust Port - Type FCSE

Model No.	Thread Size
FCSE-1/8	R1/8
FCSE-1/4	R1/4
FCSE-1/2	R1/2

In-line 3/2 Isolation Valve - Type HSV

Model No.	Thread Size
HSV-1/8	G1/8
HSV-1/4	G1/4
HSV-3/8	G3/8
HSV-1/2	G1/2

Silencer - Type S

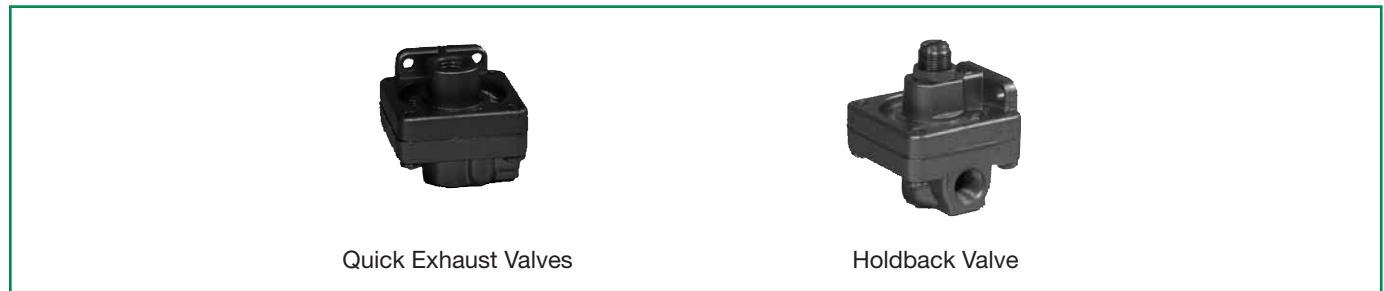
Model No.	Thread Size
S-1/8	R1/8
S-1/4	R1/4
S-3/8	R3/8
S-1/2	R1/2
S-3/4	R3/4
S-1	R1

Non-Return Valve - Type NRV

Model No.	Thread Size
NRV-1/8	G1/8
NRV-1/4	G1/4
NRV-1/2	G1/2

Shuttle (OR) Valve - Type SHV

Model No.	Thread Size
SHV-1/8	G1/8
SHV-1/4	G1/4
SHV-1/2	G1/2



Quick Exhaust Valves

Holdback Valve

Quick Exhaust Valves

Model No.	Port Thread	Port Size	Op. Press kPa	PSI
QEV-1/4	G/NPT	1/4	0-1000	0-150
QEV-1/2	G/NPT	1/2	0-1000	0-150

Quick Exhaust Valve Repair Kits

Valve Model	Seal Material	Seal Kit
QEV-1/4	Nitrile	KM1319
QEV-1/4	Viton	KM1320
QEV-1/2	Nitrile	KM1547

Holdback Valves

Model No.	Thread	Port Size	Pressure Settings kPa (PSI)		Pressure Setting Range	
			Opening	Closing	kPa	PSI
HBV-1/4-B	G/NPT	1/4	276 (40)	207 (30)	70 - 345	(10 - 50)
HBV-1/4-O	G/NPT	1/4	345 (50)	276 (40)	70 - 345	(10 - 50)
HBV-1/4-R	G/NPT	1/4	483 (70)	414 (60)	345 - 690	(50 - 100)
HBV-1/4-W	G/NPT	1/4	620 (90)	607 (88)	345 - 690	(50 - 100)

HBV Repair Kit: KM1551

Push-in Fittings for Metric Tubing



Swivel Tee Centre-Leg

Straight Adaptor

Stem Adaptor

Australasian Market Only

Super Speedfit fittings have been designed for a wide range of industrial applications. They provide a fast and secure way of connecting tubes and offer considerable advantages over conventional fittings.

Complex tubing systems can be assembled more rapidly than traditional methods Super Speedfit fittings are easy to disconnect, simplifying fault finding and maintenance.

Note: All the fittings in this section are also available in Nickel Plated finish, please use suffix "N".

Swivel Tee

Centre-Leg Super Thread

Part No.	Tube O.D. (mm)		Pipe Thread
RM100611	6	x	1/8
RM100612	6	x	1/4

Straight Adaptor

Part No.	Tube O.D. (mm)		Pipe Thread
RM010411	4	x	1/8
RM010412	4	x	1/4
RM010511	5	x	1/8
RM010512	5	x	1/4
RM010611	6	x	1/8
RM010612	6	x	1/4
RM010811	8	x	1/8
RM010812	8	x	1/4
RM010813	8	x	3/8
RM011012	10	x	1/4
RM011013	10	x	3/8
RM011014	10	x	1/2
RM011213	12	x	3/8
RM011214	12	x	1/2
RM0104M5	4	x	M5
RM0105M5	5	x	M5
RM0106M5	6	x	M5

Stem Adaptor

Part No.	Stem O.D. (mm)		Pipe Thread
RM050411	4	x	1/8
RM050412	4	x	1/4
RM050511	5	x	1/8
RM050512	5	x	1/4
RM050611	6	x	1/8
RM050612	6	x	1/4
RM050811	8	x	1/8
RM050812	8	x	1/4
RM050813	8	x	3/8
RM051012	10	x	1/4
RM051013	10	x	3/8
RM051014	10	x	1/2
RM051213	12	x	3/8
RM051214	12	x	1/2
RM0504M5	4	x	M5
RM0505M5	5	x	M5
RM0506M5	6	x	M5



Equal Straight Connector

Reducing Straight Connector

Reducer

Equal Straight Connector

Part No.	Tube O.D. (mm)
RM0404E	4
RM0405E	5
RM0406E	6
RM0408E	8
RM0410E	10
RM0412E	12

Reducing Straight Connector

Part No.	Tube O.D. (mm)	Tube O.D. (mm)
PM200604E	6	4
PM200804E	8	4
PM200806E	8	6
PM201004E	10	4
PM201006E	10	6
PM201008E	10	8
PM201208E	12	8
PM201210E	12	10

Reducer

Part No.	Stem O.D. (mm)	Tube O.D. (mm)
PM060504E	5	4
PM060604E	6	4
PM060605E	6	5
PM060804E	8	4
PM060805E	8	5
PM060806E	8	6
PM061006E	10	6
PM061008E	10	8
PM061208E	12	8
PM061210E	12	10

Push-in Fittings for Metric Tubing



Australasian Market Only

Swivel Elbow

Part No.	Tube O.D. (mm)	Pipe Thread
RM090411	4	x 1/8
RM090412	4	x 1/4
RM090511	5	x 1/8
RM090512	5	x 1/4
RM090611	6	x 1/8
RM090612	6	x 1/4
RM090811	8	x 1/8
RM090812	8	x 1/4
RM090813	8	x 3/8
RM091012	10	x 1/4
RM091013	10	x 3/8
RM091014	10	x 1/2
RM091213	12	x 3/8
RM091214	12	x 1/2
RM0904M5	4	x M5
RM0905M5	5	x M5
RM0906M5	6	x M5

Equal Elbow

Part No.	Tube O.D. (mm)
RM0304E	4
RM0305E	5
RM0306E	6
RM0308E	8
RM0310E	10
RM0312E	12

Plug

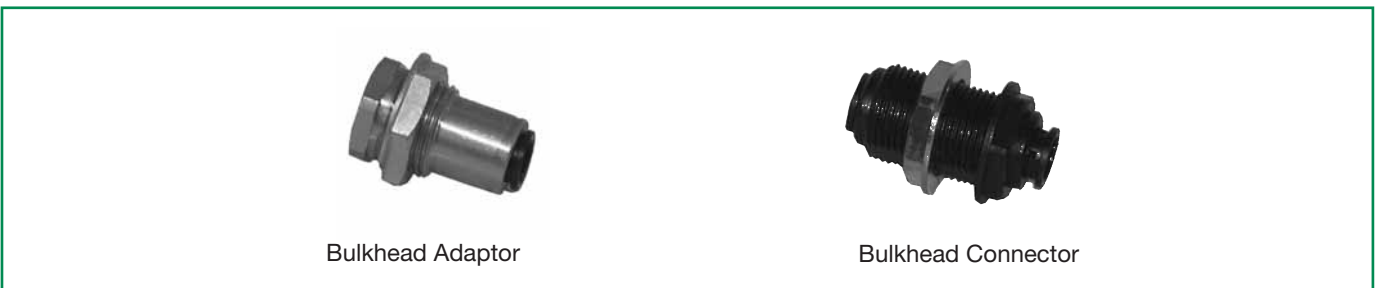
Part No.	Stem O.D. (mm)
PM0804R	4
PM0805R	5
PM0806R	6
PM0808R	8
PM0810R	10
PM0812R	12

Stem Elbow

Part No.	Stem O.D. (mm)	Tube O.D. (mm)
PM220404E	4	4
PM220505E	5	5
PM220606E	6	6
PM220808E	8	8
PM221010E	10	10
PM221212E	12	12

Equal Tee

Part No.	Tube O.D. (mm)
RM0204E	4
RM0205E	5
RM0206E	6
RM0208E	8
RM0210E	10
RM0212E	12



Bulkhead Adaptor

Part No.	Tube O.D. (mm)	Fitting Thread	Bulkhead Thread
RM070411	4	G1/8	GB1/4
RM070511	5	G1/8	GB1/4
RM070612	6	G1/4	GB3/8
RM070812	8	G1/4	GB3/8
RM071013	10	G3/8	GB1/2
RM071214	12	G1/2	GB3/4

Bulkhead Connector

Part No.	Tube O.D. Both Ends (mm)	Bulkhead Thread
PM1204E	4	GB3/8
PM1205E	5	GB3/8
PM1206E	6	GB3/8
PM1208E	8	GB1/2
PM1210E	10	GB1/2
PM1212E	12	GB3/4