



INDUSTRIAL PNEUMATIC PRODUCTS

GOYEN

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PRODUCT LEAFLET

A TOTAL PNEUMATIC SYSTEM SOLUTION



12TSS 5/2

Goyen 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.

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



PAV



PAV-4

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	5/3PC	1/2	300-1000
1/2" Ports	12TDS5/3C*	Double Pilot	5/3CC	1/2	300-1000

* See Coil selection table

Pilot Air Valves - 3/2

MODEL	MODEL (BUILT IN FLOW CONTROL)	NUMBER OF VALVES MANIFOLDED 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

Pilot Air Valves - 3/2

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'.

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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



6TDA5/2

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	5/3 PC	1/2	1/4	0-1000	300-1000
1/2" Ports	12TDA5/3C	Double Pilot	5/3 CC	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

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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'



FPP3
Foot/Palm Poppet Valve



LPP3
Lever Poppet Valve



CP3
Cam Poppet Valve



TP3
Tappet Poppet Valve



BPP3
Button Poppet Valve

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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

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

HOLDBACK VALVES

MODEL NO.	PORT 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

Flow Control in the Line – Threaded Connections – Type FCT

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 VALVE REPAIR KITS

VALVE MODEL	SEAL MATERIAL	SEAL KIT
QEV-1/4	Nitrile	KM1319
QEV-1/4	Viton	KM1320
QEV-1/2	Nitrile	KM1547



FCB



FCT



FCSE



FCT



Silencers



NRV



SHV



Quick Exhaust Valves



Holdback Valve



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Note: The information and data contained in this document are based on our general experience and are believed to be correct. They are given in good faith and are intended to provide a guideline for the selection and use of our products. Since the conditions under which our products may be used are beyond our control, this information does not imply any guarantee of final product performance and we cannot accept any liability with respect to the use of our products. The quality of our products is guaranteed under our conditions of sale. Existing industrial property rights must be observed.

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