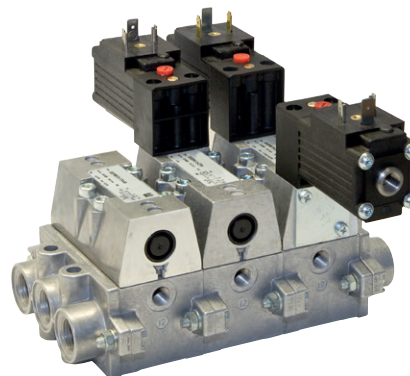


ISO*STAR RXE, RXP) 5/2 & 5/3

Solenoid and pilot actuated glandless valves



- > ISO 1, ISO 2 & ISO 3
- > Specially coated glandless spool and sleeve for long trouble-free life
- > Manual override as standard
- > Wide range of sub-bases and accessories
- > Wide temperature range
- > Shock and vibration tested to EN 61373, Category 1, class A and B
- > Fire & Smoke compliance to EN 45545 - 2



Technical features – basic valve without solenoid operator

Medium:

Compressed air, 40 µm filtered, lubricated or non-lubricated

Maximum operating pressure:

12 bar for internal pilot version (standard)

16 bar, external pilot pressure maximum 12 bar

Operation:

Glandless spool valve, solenoid pilot or air pilot actuated

Mounting:

On sub-bases

Flow characteristics: (unregulated):

Size	Function	l/min	Cv	Kv
ISO 1 5/2		1230	1,20	1,08
ISO 1 5/3 COP		1320	1,35	1,15
ISO 2 5/2		2450	2,45	2,16
ISO 2 5/3 COP		2520	2,57	2,20
ISO 3 5/2		4400	4,48	3,84
ISO 3 5/3 COP		4650	4,74	4,06

Sizes:

ISO 1, 2 and 3

Ambient temperature:

-40°C ... +70°C

solenoid actuated valves

-40°C ... +80°C

pilot actuated valves

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Materials:

Body: Die cast aluminium

Spool and sleeve: Hard anodised

PTFE coated, matched aluminium

Static seals: VMQ and nitrile rubber

Plastic parts: POM

Screws: Zinc plated

Coil: glass reinforced nylon

Internal parts: stainless steel

Seals: NBR (FPM top seat)

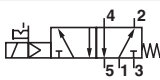
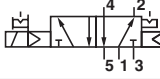
Technical data – solenoid operators

Type	32 mm solenoid valve with sub base inlet and outlet connections
Circuit function	3/2, Normally closed
Orifice	1,5 mm
Seal material	NBR
Body material	Brass, zinc or plastic
Port connection	Exhaust port 1/8" BSP female; inlet and outlet ports CNOMO sub base
Coil Material	Glass reinforced PA
Nominal voltages	12, 24, 37,5, 52, 74, 96, 110 Volts
Pull in voltage	80% of nominal voltage
Drop out voltage	3% of nominal voltage
Power consumption	6 Watt

Voltage tolerance	±30% of nominal
Electrical connection	DIN EN 175301-803 (DIN 43650) Form A
Manual override	Screw turn and lock *1)
Pressure range	1,5 ... 12 bar
Kv value	0.05 cubic metres / hour
Weight	0.25 kg
Duty cycle	100% ED
Low voltage directive	2006/95/EC
PE directive	97/23/EC
Fire and smoke	EN45545-2 & NFF 16-101

*1) Rotational lever or without manual override on request.

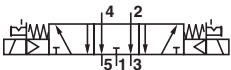
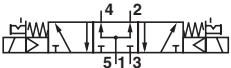
Technical data – solenoid operators

Symbol	ISO size	Pilot supply *1)	Operator 14	Return 12	Operating pressure (bar)	Weight (kg)	Model
	1	Internal	Solenoid	Spring	2 ... 16	0,60	RXE9573-Z71-*
	2					0,80	RXE9574-Z71-*
	3					1,00	RXE9575-Z71-*
	1	Internal	Solenoid	Solenoid	2 ... 16	1,00	RXE0573-Z50-*
	2					1,20	RXE0574-Z50-*
	3					1,40	RXE0575-Z50-*

* Insert 'Voltage Code' from table, see next page.

*1) Optional external pilot supply; operating pressure -0,9 ... 16 bar, with external pilot supply 2 ... 16 bar - contact our technical service for further information.

5/3 CNOMO solenoid pilot actuated valves

Symbol	ISO size	Mid position	Pilot supply *1)	Operator 14	Return 12	Operating pressure (bar)	Weight (kg)	Model
	1	COE	Internal	Solenoid	Solenoid	2 ... 16	1,00	RXE9773-Z50-*
	2						1,20	RXE9774-Z50-*
	3						1,40	RXE9775-Z50-*
	1	COP	Internal	Solenoid	Solenoid	2 ... 16	1,00	RXE9873-Z50-*
	2						1,20	RXE9874-Z50-*
	3						1,40	RXE9875-Z50-*

* Insert 'Voltage Code' from table below.

*1) Optional external pilot supply; operating pressure -0,9 ... 16 bar, with external pilot supply 2 ... 16 bar - contact our technical service for further information.

5/3 valve mid position function: COP = Centre Open Pressure, COE = Centre Open Exhaust

Option selector (solenoid actuated valves)

Valve function	Substitute
5/2 solenoid/solenoid, bistable valve	05
5/2 solenoid/spring, monostable valve	95
5/3 - COE	97
5/3 - COP	98
ISO size	Substitute
ISO 1	3
ISO 2	4
ISO 3	5

RXE★★7★-Z★★-★★★

Voltage code	Substitute
For voltage code please see tables below	
Pilot supply *	Substitute
Internal (double solenoid)	0
Internal (single solenoid valve, mechanical spring)	1
External (double solenoid)	5
External (single solenoid valve, mechanical spring)	6
Integrated flow control	Substitute
Without flow regulator (double solenoid)	5
With flow regulator (double solenoid)	6
Without flow regulator (solenoid & spring)	7
With flow regulator (solenoid & spring)	8

* Single acting, air spring return options not available in Railline product range.

	Voltage	Voltage code – solenoid pilot valve with manual override *1)	Spare – replacement coil part number *1)
	12 V d.c.	12S	VRW4204111/12N
	24 V d.c.	24S	VRW4204111/24N
	37,5 V d.c.	37S	VRW4204111/37N
	52 V d.c.	52S	VRW4204111/52N
	74 V d.c.	74S	VRW4204111/74N
	96 V d.c.	96S	VRW4204111/96N
	110 V d.c.	11S	VRW4204111/11N

*1) Standard manual override is a screw driver turn and lock = S at the last position in the voltage code.

Optional overrides available on request;

None = X

Lever = L

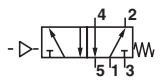
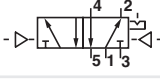
Push button = P

Connector	Connector with moulded cable
	
0570275	M/P 43315/1 (1 m)
	M/P 43315/3 (3 m)

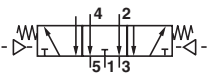
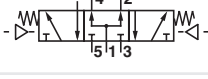
To ensure IP65 integrity a compliant plug and gasket is to be fitted checking that the cable gland/wiring is terminated and sealed correctly.

The cable plug is fastened using M3 screw with a torque value of 0.4 - 0.6 Nm.

5/2 air pilot actuated valves

Symbol	ISO size	Operator 14	Return 12	Operating pressure (bar)	Pilot pressure (bar)	Weight (kg)	Model
	1	Air	Spring	-0,9 ... 16	2 ... 16	0,30	RXP9573-170-00
	2					0,50	RXP9574-170-00
	3					0,70	RXP9575-170-00
	1	Air	Air	-0,9 ... 16	2 ... 16	0,20	RXP0573-170-00
	2					0,40	RXP0574-170-00
	3					0,70	RXP0575-170-00

5/3 air pilot actuated valves

Symbol	ISO size	Mid position	Operator 14	Return 12	Operating pressure (bar)	Pilot pressure (bar)	Weight (kg)	Model
	1	COE	Air	Air	-0,9 ... 16	2 ... 16	0,30	RXP9773-170-00
	2						0,50	RXP9774-170-00
	3						0,70	RXP9775-170-00
	1	COP	Air	Air	-0,9 ... 16	2 ... 16	0,30	RXP9873-170-00
	2						0,50	RXP9874-170-00
	3						0,70	RXP9875-170-00

5/3 valve mid position function: COP = Centre Open Pressure, COE = Centre Open Exhaust

Option selector (air pilot actuated valves)

Valve function	Substitute
5/2 pilot/pilot, bistable valve	05
5/2 pilot/spring, monostable valve	95
5/3 - COE	97
5/3 - COP	98
ISO size	Substitute
ISO 1	3
ISO 2	4
ISO 3	5

RXP★ ★ ★ 7 ★ - 1 ★ 0 - 00

Integrated flow control	Substitute
Without - Standard	7
With	8

Sub-bases, end plates and blanking disc - VDMA 24345 sub-base options

	Single station sub-base, Form A side ported		Single station sub-base Form B bottom ported		Modular sub-base Form C		Form D End plates		Blanking disc for VDMA sub-bases *1)	
ISO size	Page 7		Page 7		Page 7		Page 7		Page 8	
	ISO G thread	NPT thread	ISO G thread		ISO G thread	NPT thread	ISO G thread	NPT thread	ISO G thread	NPT thread
1	M/P19126 (1/4)	C/P19126 (1/4)	M/P19125 (1/4)		CQM/22152/3/21	239-238B	CQM/22152/3/22	239-289B	FP 8382	239-251
2	M/P19132 (3/8)	C/P19132 (3/8)	M/P19131 (3/8)		CQM/22253/3/21	239-242B	CQM/22253/3/22	239-291B	FP 8482	239-252
3	M/P19138 (1/2)	C/P19138 (1/2)	M/P19137 (1/2)		CQM/22354/3/21	239-246B	CQM/22354/3/22	239-293B	FP 8582	239-253

Universal sub-base options for ISO G parallel threads only

	Modular base with side, end and bottom ports open		Universal end plate, all ports blocked		Universal end plate, side ports open		Transition plate from ISO 1 » ISO 2		Blanking disk for ISO 1 and ISO 2	
ISO size	Page 12		Page 12		Page 12		Page 12		Page 12	
1	CQM/22152/3/27 (G1/4)		CQM/22152/3/28 (G1/4)		CQM/22152/3/31 (G1/4)		CQM/22152/3/29		M/P43173	
2	CQM/22253/3/27 (G3/8)		CQM/22253/3/28 (G3/8)		CQM/22253/3/31 (G3/8)		CQM/22152/3/29		M/P43174	

Accessories for ISO G parallel and NPT threads

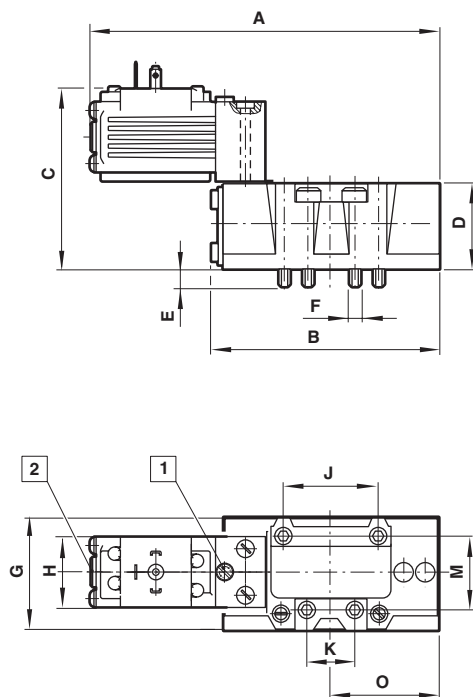
	Blanking plate for VDMA and universal sub-bases		Transition plate for VDMA sub-bases		Silencer	
ISO size	Page 12		Page 12		Page 12	
1	CQM/22152/3/23		CQM/22152/3/24 (1 » 2)		0015510	
2	CQM/22253/3/23		CQM/22253/3/24 (2 » 3)			
3	CQM/22354/3/23		FP8570 (1 » 3)			

Drawings

Dimensions in mm
Projection/First angle

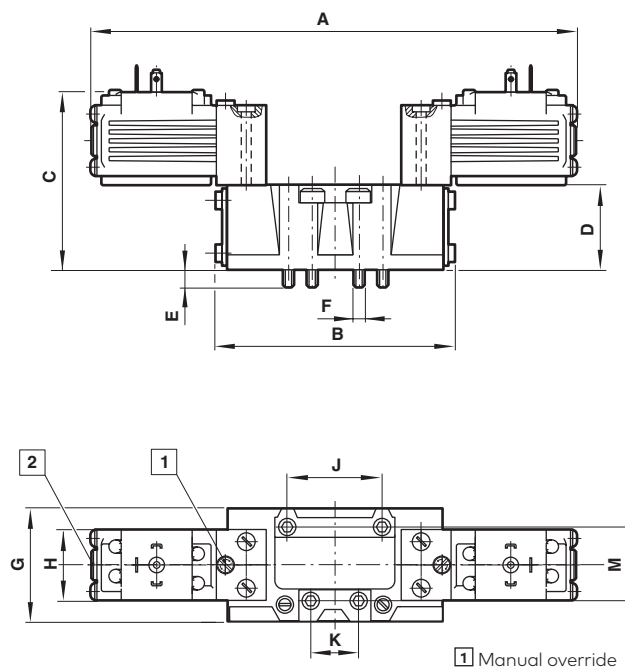
RXE 957*-Z

Single CNOMO solenoid pilot valves



RXE 057*-Z, RXE 977*-Z and RXE 987*-Z

Double CNOMO solenoid pilot valves



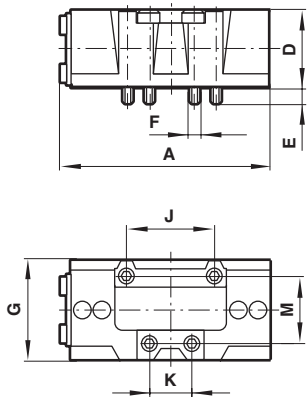
Single CNOMO solenoid pilot valves

ISO size	A	B	C	D	E	F	G	H	J	K	M	O	kg	Model
1	148	88,5	69	33	7,5	M5	42	32	36	18	28	42	0,6	RXE9573-Z...
2	167	112,5	79	42	7	M6	55,5	32	48	24	38	53	0,8	RXE9574-Z...
3	188	135,5	80	43	11,5	M8	62,5	32	64	32	48	65,5	1,0	RXE9575-Z...

Double CNOMO solenoid pilot valves

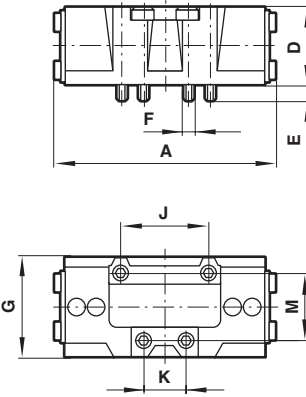
ISO size	A	B	C	D	E	F	G	H	J	K	M	kg	Model
1	206	92	69	33	7,5	M5	42	32	36	18	28	1,0	RXE0573-Z... RXE9773-Z... RXE9873-Z...
2	224	118	79	42	7	M6	55,5	32	48	24	38	1,2	RXE0574-Z... RXE9774-Z... RXE9874-Z...
3	247	140	80	43	11,5	M8	62,5	32	64	32	48	1,4	RXE0575-Z... RXE9775-Z... RXE9875-Z...

RXP957*
Single air pilot valve



ISO size	A	D	E	F	G	J	K	M	kg	Model
1	92,5	33	7,5	M5	42	36	18	28	0,3	RXP9573-170-00
2	118	42	7	M6	55,5	48	24	38	0,5	RXP9574-170-00
3	134	43	11,5	M8	62,5	64	32	48	0,7	RXP9575-170-00

RXP057*, RXP977*, RXP987*
Double air pilot valve

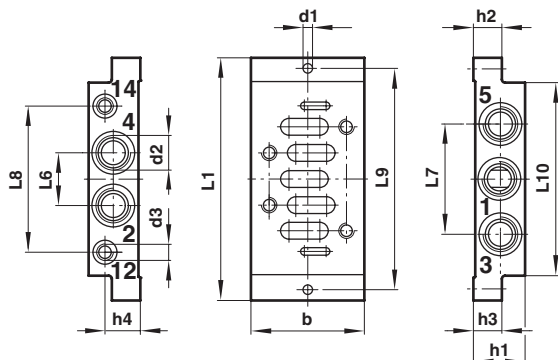


ISO size	A	D	E	F	G	J	K	M	kg	Model
1	88,5	33	7,5	M5	42	36	18	28	0,2	RXP0573-170-00
1	92,5	33	7,5	M5	42	36	18	28	0,3	RXP9773-170-00 RXP9873-170-00
2	111	42	7	M6	55,5	48	24	38	0,4	RXP0574-170-00
2	118	42	7	M6	55,5	48	24	38	0,5	RXP9774-170-00 RXP9874-170-00
3	134	43	11,5	M8	62,5	64	32	48	0,7	RXP0575-170-00
3	134	43	11,5	M8	62,5	64	32	48	0,7	RXP9775-170-00 RXP9875-170-00

Sub-bases and end plates

VDMA 24345 sub-base options

Single station sub-base side ported (Form A) for ISO G and NPT threads



ISO	b	d1	d2	d3	h1	h2	h3	Model
1	48	5,5	1/4"	1/8"	32	10	10,5 (21,5)	#/P19126
2	57	6,6	3/8"	1/8"	40	13	14 (26)	#/P19132
3	71	6,6	1/2"	1/8"	32	18	179	#/P19138

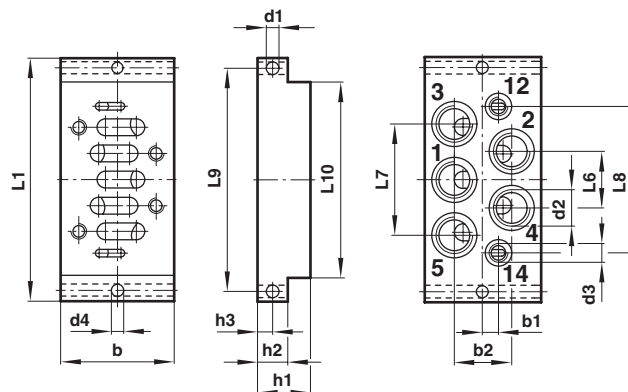
ISO	h4	L1	L6	L7	L8	L9	L10	kg	Model
1	23,5	110	24	43	58	98	84	0,16	#/P19126
2	30	124	30	56	74	112	95	0,28	#/P19132
3	22	149	32	68	90	136	119	0,36	#/P19138

() Dimension for ports 3 and 5.

Insert 'M' for ISO G parallel or 'C' for NPT threads.

Single station sub-base

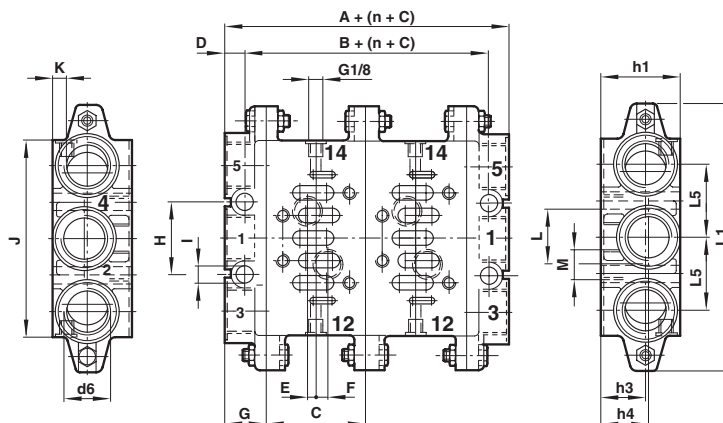
bottom ported (Form B) for ISO G and NPT threads



ISO	b	b1	b2	d1	d2	d3	d4	h1	Model
1	46	7	23	5,5	1/4"	1/8"	5,5	30	#/P19125
2	56	8	27	6,6	3/8"	1/8"	6,6	35	#/P19131
3	71	10	34	6,6	1/2"	1/8"	6,69	32	#/P19137

ISO	h2	h3	L1	L6	L7	L8	L9	L10	kg	Model
1	10	5	110	23	46	62	98	84	0,19	#/P19125
2	13	6,5	124	28	56	73	112	95	0,32	#/P19131
3	18	9	149	34	68	90	136	119	0,40	#/P19137

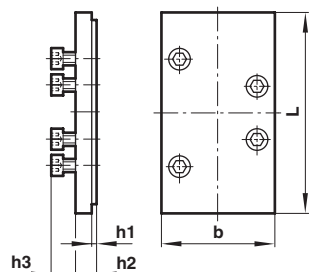
Modular sub-bases (Form C) and end plates (Form D) for ISO G and NPT threads



ISO	A	B	C	D	E	F	G	H	I	kg	Model G thread	Model NPT thread
1	44	22	43	11	1,5	7,5	22	28	7	0,24	CQM/22152/3/21	239-238B
2	52	26	56	13	5	6	26	35	9	0,36	CQM/22253/3/21	239-242B
3	60	30	71	15	6	8	30	52	12	0,72	CQM/22354/3/21	239-246B

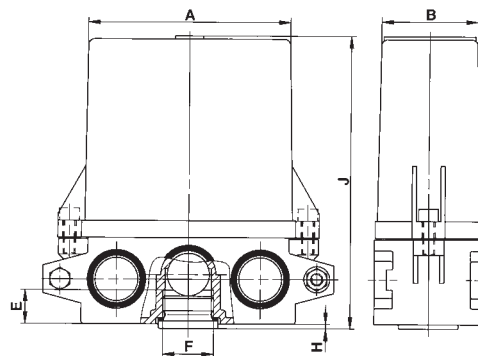
ISO	J	K	L	M	h1	h3	h4	L1	L5	d6	kg	Model	Model NPT thread
1	85	8,5	26	G1/4	46	21	24	110	28	3/8"	0,22	CQM/22152/3/22	239-289B
2	100	9	30	G3/8	47	22	24	135	28	1/2"	0,34	CQM/22253/3/22	239-291B
3	140	10	38	G1/2	56	31	34	190	52	1"	0,66	CQM/22354/3/22	239-293B

Blanking plate for VDMA & universal sub-bases with ISO G and NPT threads



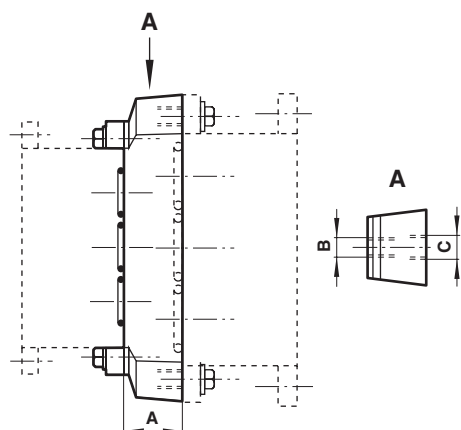
ISO	b	L	h1	h2	h3	kg	Model
1	42	80	2	14	11	0,05	CQM/22152/3/23
2	55	85	2,5	12,5	13,5	0,09	CQM/22253/3/23
3	70	120	2,5	12,5	15,5	0,26	CQM/22354/3/23

Silencer for VDMA & universal sub-bases with ISO G and NPT threads



ISO	A	B	E	F	H	J	Model
1	77	38	15	G3/8	2	122	0015510

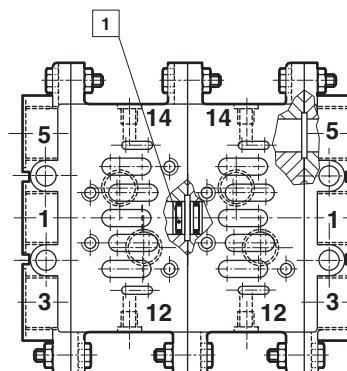
Transition plate from ISO 1 to ISO 2 and ISO 2 to ISO 3 for VDMA sub-bases for ISO G and NPT threads



ISO	A	B	C	kg	Model
1 to 2	25	M5	M6	0,35	CQM/22152/3/24
2 to 3	40	M6	M8	0,65	CQM/22253/3/24
1 to 3	34	M5	M8	0,90	FP8570

Blanking disc

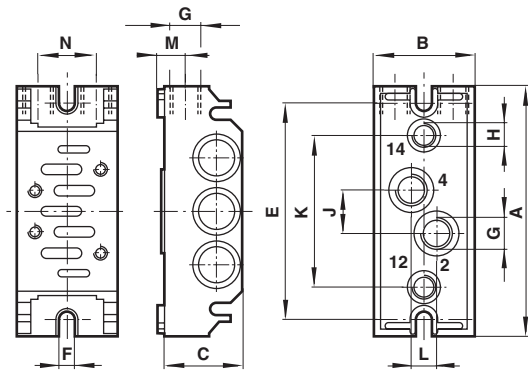
FP8382, FP8482 & FP8582
for ISO G thread
239-251, 239-252 & 239-253
for NPT thread



1 Blanking disc (FP.) or 239-...

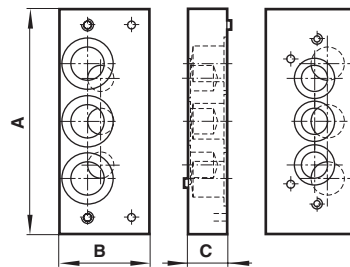
Universal sub-base options for ISO G threads only

Modular base with side, end and bottom ports open



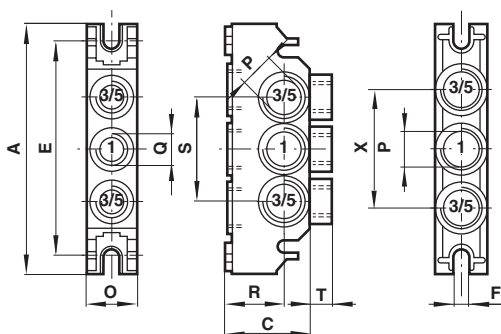
ISO	A	B	C	E	F	G	H	J	K	L	M	N	kg	Model
1	106	43	36	92	5,5	G1/4	G1/8	18	64	11	12	28	0,16	CQM/22152/3/27
2	120	56	43	102	6,5	G3/8	G1/8	24	68	19	15	38	0,35	CQM/22253/3/27

Transition plate from ISO 1 to ISO 2



ISO	A	B	C	kg	Model
1 to 2	114	46	20	0,23	CQM/22152/3/29

Universal end plate, all ports blocked

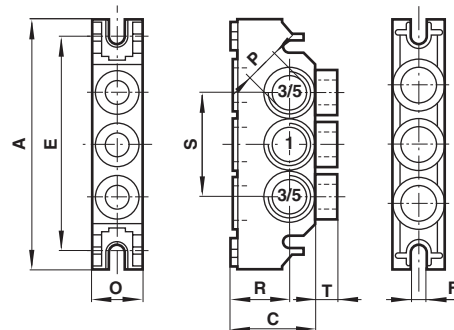


ISO	A	C	E	F	O	P	Q	R	S	T	X	kg	Model
1	106	36	92	5,5	22	G3/8	G1/4	25	44	9	50	0,13	CQM/22152/3/28
2	120	46	102	6,5	29	G1/2	G1/4	31	58	7	58	0,23	CQM/22253/3/28

Drill dimensions for opening ports

G1/4	Ø 8
G3/8	Ø 15
G1/2	Ø 15

Universal end plate, side ports open



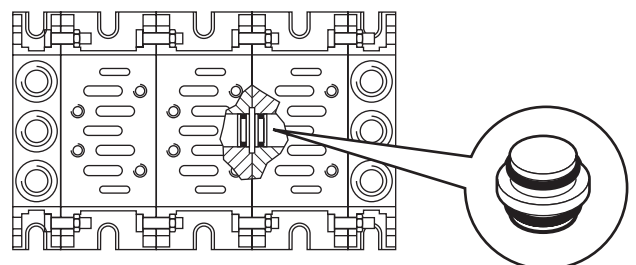
ISO	A	C	E	F	O	P	R	S	T	kg	Model
1	106	36	92	5,5	22	G3/8	25	44	9	0,13	CQM/22152/3/31
2	120	46	102	6,5	29	G1/2	31	58	7	0,23	CQM/22253/3/31

Drill dimensions for opening ports

G1/4	Ø 8
G3/8	Ø 15
G1/2	Ø 15

Blanking disk for ISO 1 and ISO 2 universal sub-bases

ISO	kg	Model
1	0,01	M/P43173
2	0,03	M/P43174



Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under **»Technical features/data«**.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult Norgren Ltd.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.