Concertrated Branching Joint for Assembly

Main Block

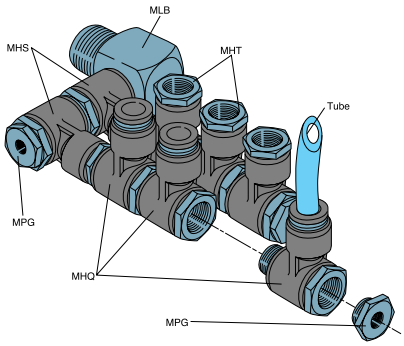
Package 1 pc. in a bag

■These block parts can be assembled into a variety of manifold blocks for concertrated branching.
■For half the size, these parts assure the same flow rate as the steel piping.
■14 type in different shapes can be combined freely according to your application.

Specifications

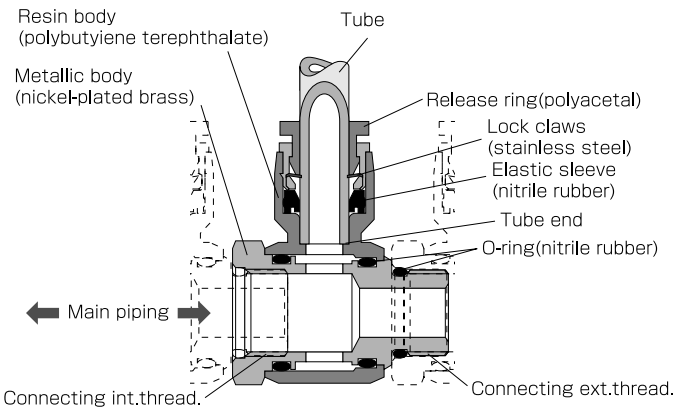
Fluid admitted	Air	
Service pressure range	0~150psi	0~0.9MPa(0~9.18kg/cm²)
Working vacuum	-29.5in.Hg	-750mmHg(10Torr)
Service temperature range	32~140°F	0~60°C

Assembly Procedure



The metric threads"M" shown in photos connect Main Blocks to each other.Therefore, any main blocks of the same thread size can be combined fleely. As a rule, combine a required number of Main Blocks of air outlet parts selected from the three models of MHQ, MHB and MHT first. And then connected Main Blocks of air supply ports selected from the five models of Main Blooks of air outlet ports selectedfrom the three models of fleely MBA, MLB, MBC, MST and MKR and use model MPG or MCP for blinding. Model MHS is useful when air outlet ports are to be arranged in two or more rows. Use model MBB to connect Main Blocks of different thread sizes.Model MBN connects female Main Blocks to each other Model MZB is a securing bracket.

Construction



Model Designation(Example)

MHQ ① 14 ② – 08 ③

①Type

②Connecting thread size(M)

Code	08	12	14	18
Size	M8×1.0	M12×1.0	M14×1.0	M18×1.0

③Air connection size

Joint(φD)

Code	4	6	8	10	12	16
Dia.	φ4mm	φ6mm	φ8mm	φ10mm	φ12mm	φ16mm

Thread size(R)

	Metric thread		Taper pipe thread			
Code	M5	M6	01	02	03	04
Size	M5×0.8	M6×1.0	R1/8	R1/4	R3/8	R1/2

Connecting thread size(M)

Detailed Safety Instructions

Before using the PISCO device, be sure to read the "Safety Instructions","Common Safety Instructions for Products Listed in This Manual"on page 3 and "Common Safety Instructions for Quick-Fitting Joint"on pages 4 and 5.

⚠Warning

1.Provide brackets or other support means when the block is subject to bending loads or when the block consists of many joints. Use without such support means may cause deformation of the mated equipment or damage to the joint body.

⚠Caution

1.When installing or removing the Main Block, use a supplied main block assemblying wrench. Without the use of tool, assembly may be difficult or defomation of the body may result.

Main Block Block Parts

Model Designation(Example)

MHQ	08	04
①	②	③

①Type

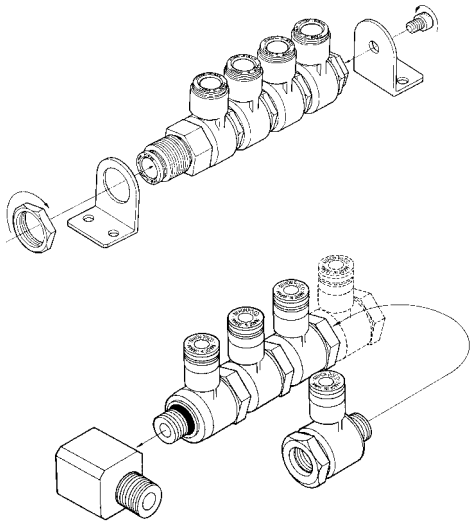
②Connecting thread size

Code	08	12	14	18
Size	M8×1	M12×1	M14×1	M18×1

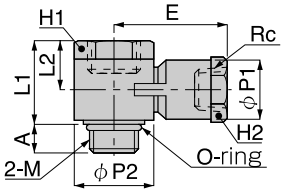
③Air outlet size

	Metric thresd		Taper pipe thread				Tube fitting(mm)					
Code	M5	M6	01	02	03	04	4	6	8	10	12	16
Size	M5X0.8	M6X1	R1/8	R1/4	R3/8	R1/2	Φ4	Φ6	Φ8	Φ10	Φ12	Φ16

Main block Example



MHT Universal Taper

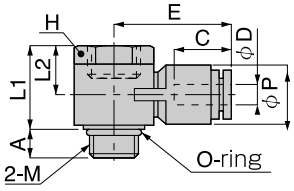


Unit : inch

Model	RC	M	A	L1	L2	ΦP1	ΦP2	E	H1	H2	Weight (OZ)	Orifice ϕMM	Eff.a. mm2	CV
MHT 08M5	M5	M8	0.26	0.75	0.43	0.51	0.61	0.92	0.55	0.47	0.77	2.80	7.30	0.40
MHT 08M6	M6	M8	0.26	0.75	0.43	0.51	0.61	0.92	0.55	0.47	0.77	2.80	7.30	0.40
MHT 0801	RC1/8	M8	0.26	0.75	0.43	0.59	0.61	1.02	0.55	0.55	0.77	2.80	7.80	0.42
MHT 12M6	M6	M12	0.28	0.79	0.45	0.51	0.77	1.08	0.67	0.47	0.99	5.00	9.70	0.53
MHT 1201	RC1/8	M12	0.28	0.79	0.45	0.59	0.77	1.14	0.67	0.55	1.06	5.00	12.40	0.67
MHT 1401	RC1/8	M14	0.31	0.91	0.51	0.59	0.96	1.16	0.87	0.55	1.55	6.00	16.10	0.87
MHT 1402	RC1/4	M14	0.31	0.91	0.51	0.85	0.96	1.34	0.87	0.75	2.11	10.00	21.40	1.16
MHT 1802	RC1/4	M18	0.31	1.06	0.61	0.85	1.18	1.46	0.94	0.75	2.75	10.00	36.90	2.00
MHT 1803	RC3/8	M18	0.31	1.30	0.73	1.00	1.10	1.44	1.06	0.87	3.20	13.00	59.50	3.22

※For the pitch of the connecting thread, refer to the thread size for assembly in Model Designation (Example) above.

MHQ Universal Quick

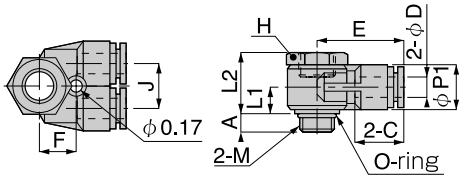


Unit : inch

Model	Tube dia. ϕD(mm)	M	A	L1	L2	ΦP	C	E	H	Weight (OZ)	Orifice ϕMM	Eff.a. mm2	CV
MHQ 0804	4	M8	0.26	0.75	0.43	0.39	0.59	0.89	0.55	0.56	2.50	4.70	0.25
MHQ 0806	6	M8	0.26	0.75	0.43	0.47	0.67	0.96	0.55	0.60	4.00	7.00	0.38
MHQ 1206	6	M12	0.28	0.79	0.45	0.47	0.67	1.06	0.67	0.81	4.00	8.70	0.47
MHQ 1208	8	M12	0.28	0.79	0.45	0.55	0.71	1.12	0.67	0.84	6.00	11.00	0.60
MHQ 1408	8	M14	0.31	0.91	0.51	0.55	0.71	1.20	0.87	1.34	6.00	16.70	0.91
MHQ 1410	10	M14	0.31	0.91	0.51	0.67	0.79	1.30	0.87	1.44	8.00	19.50	1.06
MHQ 1412	12	M14	0.31	0.91	0.51	0.79	0.92	1.40	0.87	1.55	10.00	21.10	1.14
MHQ 1812	12	M18	0.31	1.06	0.61	0.79	0.92	1.52	0.94	2.11	10.00	40.40	2.19
MHQ 1816	16	M18	0.31	1.30	0.73	0.91	0.98	1.46	0.94	2.25	13.00	50.40	2.73

※For the pitch of the connecting thread, refer to the thread size for assembly in Model Designation (Example) above.

MHB Universal Branch

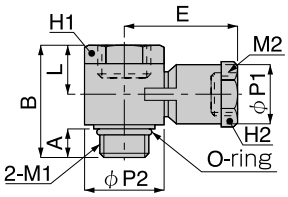


Unit : inch

Model	Tube dia. ϕD(mm)	M	A	L1	L2	C	ϕP	J	E	H	F	Weight (OZ)	Orifice ϕMM	Eff.a. mm2	CV
MHB 1410	10	M14	0.31	0.39	0.91	0.79	0.71	0.67	1.32	0.87	15	0.53	4.00	17.80	0.96
MHB 1812	12	M18	0.31	0.45	1.06	0.92	0.85	0.79	1.48	0.94	17	0.60	7.00	35.60	1.93

※For the pitch of the connecting thread, refer to the pitch of assembly thread of ② in Model Designation(Example)on P94

MHS Universal Straight

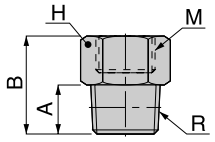


Unit : inch

Model	M1	M2	A	B	L	ΦP1	ΦP2	H1	H2	Weight (OZ)	Orifice ϕMM	Eff.a. mm2	CV
MHS 1208	M12	M8	0.28	0.79	0.45	0.49	0.77	0.67	0.47	0.93	4.00	8.40	0.46
MHS 1212	M12	M12	0.28	0.79	0.39	0.71	0.77	0.67	0.67	1.23	4.00	12.90	0.70
MHS 1412	M14	M12	0.31	0.91	0.51	0.71	0.96	0.87	0.67	1.74	7.00	20.80	1.13
MHS 1414	M14	M14	0.31	0.91	0.51	0.85	0.96	0.87	0.75	1.94	7.00	20.60	1.12
MHS 1814	M18	M14	0.31	1.06	0.61	0.85	1.18	0.94	0.75	2.59	7.00	40.10	2.17
MHS 1818	M18	M18	0.31	1.30	0.73	0.85	1.10	1.06	0.87	2.89	7.00	59.90	3.25

※For the pitch of the connecting thread, refer to the pitch of assembly thread of ② in Model Designation(Example)on P94

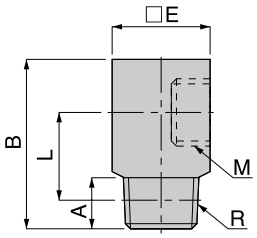
MBA Bush A



Unit : inch

Model	R	M	A	B	H	Weight (OZ)	Orifice ϕMM	Eff.a. mm2	CV
MBA 0801	R1/8	M8	0.31	0.79	0.47	0.43	6.00	24.50	1.33
MBA 1201	R1/8	M12	0.31	0.79	0.67	0.63	6.00	24.70	1.34
MBA 1202	R1/4	M12	0.43	0.91	0.67	0.79	9.00	42.30	2.29
MBA 1203	R3/8	M12	0.47	0.94	0.67	1.10	10.00	42.30	2.29
MBA 1402	R1/4	M14	0.43	0.91	0.75	0.94	9.00	42.70	2.31
MBA 1403	R3/8	M14	0.47	0.94	0.75	1.18	12.00	42.70	2,31
MBA 1404	R1/2	M14	0.51	0.98	0.87	1.85	13.00	56.10	3.04
MBA 1803	R3/8	M18	0.47	0.98	0.87	1.18	12.00	56.10	3.04
MBA 1804	R1/5	M18	0.51	0.98	0.94	1.85	13.00	56.10	3.04

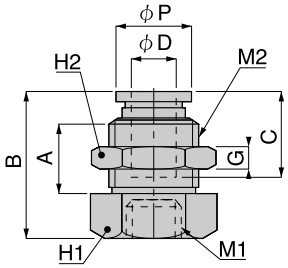
MLB Elbow B



Unit : inch

Model	R	M	A	B	L	□E	Weight (OZ)	Orifice ϕMM	Eff.a. mm2	CV
MLB 0801	R1/8	M8	0.31	1.10	0.63	0.67	1.41	6.00	21.40	1.16
MLB 1201	R1/8	M12	0.31	1.14	0.59	0.75	1.64	6.00	24.50	1.33
MLB 1202	R1/4	M12	0.43	1.26	0.59	0.75	1.71	9.00	40.00	2.17
MLB 1402	R1/4	M14	0.43	1.46	0.75	0.87	2.78	9.00	42.70	2.31
MLB 1403	R3/8	M14	0.47	1.50	0.77	0.87	2.85	12.00	46.00	2.49
MLB 1404	R1/2	M14	0.51	1.54	0.75	0.87	3.19	13.00	46.00	2.49
MLB 1803	R3/8	M18	0.47	1.73	0.92	1.06	5.00	12.00	49.00	2.66
MLB 1804	R1/2	M18	0.51	1.77	0.91	1.06	5.49	13.00	49.00	2.66

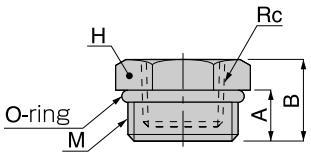
MKR Bulkhead Reducer



Unit : inch

Model	Tube dia. ϕD(mm)	M1	M2	A	B	ΦP	C	H1	G	H2	Weight (OZ)	Orifice ϕMM	Eff.a. mm2	CV
MKR 0804	4	M8	M12	0.47	1.04	0.39	0.59	0.55	0.16	0.55	0.65	3.00	5.60	0.30
MKR 0806	6	M8	M14	0.51	1.12	0.67	0.16	0.67	0.16	0.67	1.27	5.00	11.50	0.62
MKR 1206	6	M12	M16	0.39	1.12	0.67	0.16	0.67	0.16	0.67	0.97	5.00	13.20	0.72
MKR 1208	8	M12	M20	0.47	1.14	0.71	0.16	0.75	0.16	0.75	1.21	7.00	27.40	1.49
MKR 1210	10	M12	M16	0.59	1.28	0.79	0.20	0.87	0.20	0.94	2.08	9.00	34.80	1.89
MKR 1408	8	M14	M20	0.39	1.14	0.71	0.16	0.75	0.16	0.75	1.16	7.00	27.70	1.50
MKR 1410	10	M14	M22	0.59	1.28	0.79	0.20	0.94	0.20	0.94	2.18	9.00	41.70	2.26
MKR 1412	12	M14	M22	0.63	1.38	0.92	0.24	0.94	0.24	1.06	2.71	11.00	54.70	2.96
MKR 1812	12	M18	M12	0.63	1.38	0.92	0.24	1.06	0.24	1.06	2.87	11.00	66.70	3.62

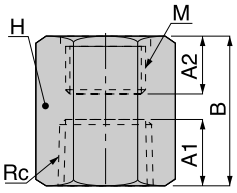
MBC Bush C



Unit : inch

Model	RC	M1	A	B	H	Weight (OZ)
MBC 08M5	M5	M8	0.28	0.43	0.39	0.14
MBC 12M6	M6	M12	0.30	0.45	0.55	0.33
MBC 1401	RC1/8	M14	0.31	0.47	0.67	0.42
MBC 1802	RC1/4	M18	0.31	0.51	0.75	0.56

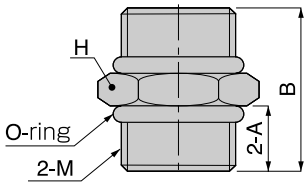
MST socket



Unit : inch

Model	ΦD	RC	M	A1	A2	B	L1	L2	H2	Weight (OZ)
MST 0801	0.33	RC1/8	M8	0.31	0.35	0.79	0.31	0.33	0.47	0.46
MST 1202	0.49	RC1/4	M12	0.43	0.35	0.94	0.43	0.35	0.67	1.16
MST 1403	0.57	RC3/8	M14	0.47	0.39	1.06	0.47	0.39	0.87	2.25
MST 1804	0.73	RC1/2	M18	0.59	0.39	1.10	0.59	0.39	1.06	3.12

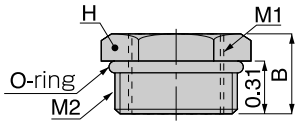
MBN Nipple



Unit : inch

Model	M	A	B	H	Weight (OZ)
MBN 0808	M8	0.28	0.71	0.39	0.14
MBN 1212	M12	0.31	0.79	0.55	0.25
MBN 1414	M14	0.31	0.79	0.67	0.32
MBN 1818	M18	0.31	0.79	0.75	0.46

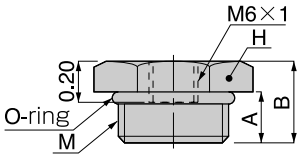
MBB Bush B



Unit : inch

Model	M1	M2	A	B	H	Weight (OZ)
MBB 1208	M8	M12	0.31	0.47	0.55	0.26
MBB 1412	M12	M14	0.31	0.79	0.67	0.70
MBB 1814	M14	M18	0.31	0.47	0.75	0.39

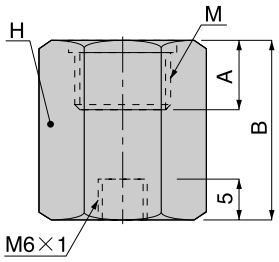
MPG Plug



Unit : inch

Model	M	A	B	H	Weight (OZ)
MPG 08	M8	0.24	0.55	0.47	0.14
MPG 12	M12	0.24	0.35	0.55	0.28
MPG 14	M14	0.24	0.39	0.67	0.53
MPG 18	M18	0.28	0.47	0.75	0.84

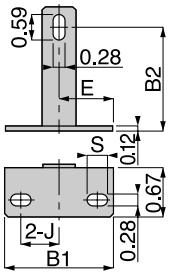
MCP Cap



Unit : inch

Model	M	A	B	H	Weight (OZ)
MCP 08	M8	0.26	0.79	0.47	0.56
MCP 12	M12	0.28	0.87	0.55	0.70
MCP 14	M14	0.31	0.91	0.67	1.13
MCP 18	M18	0.31	0.98	0.75	2.18

MZB Bracket

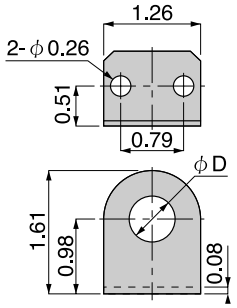


Unit : inch

Model	B	J	S	E	Weight (OZ)
MZB 061B	2.56	0.91	0.47	1.28	2.32
MZB 062B	3.15	1.24	0.51	1.57	2.68
MZB 161B	2.56	1.81	0.47	1.28	2.18
MZB 162B	3.15	2.48	0.61	1.57	2.53

※MZB061B, MZB062B, MZB161B and MZB162B lock MPG and MCP, respectively.

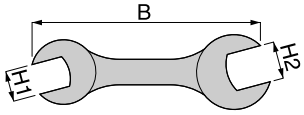
MZB Bracket



Unit : inch

Model	ΦD	Thi. MM	Weight (OZ)
MZB 06	0.28	0.08	0.99
MZB 12	0.51	0.08	0.95
MZB 14	0.59	0.08	0.92
MZB 16	0.67	0.08	0.88
MZB 20	0.83	0.08	0.84
MZB 22	0.87	0.08	0.77

SPANNER Main Block Assembling Wrench



Unit : inch

Spanner Set	B	H1	H2
①	4.90	0.39	0.47
②	5.10	0.55	0.67
③	5.50	0.75	0.87
④	5.90	0.94	1.06