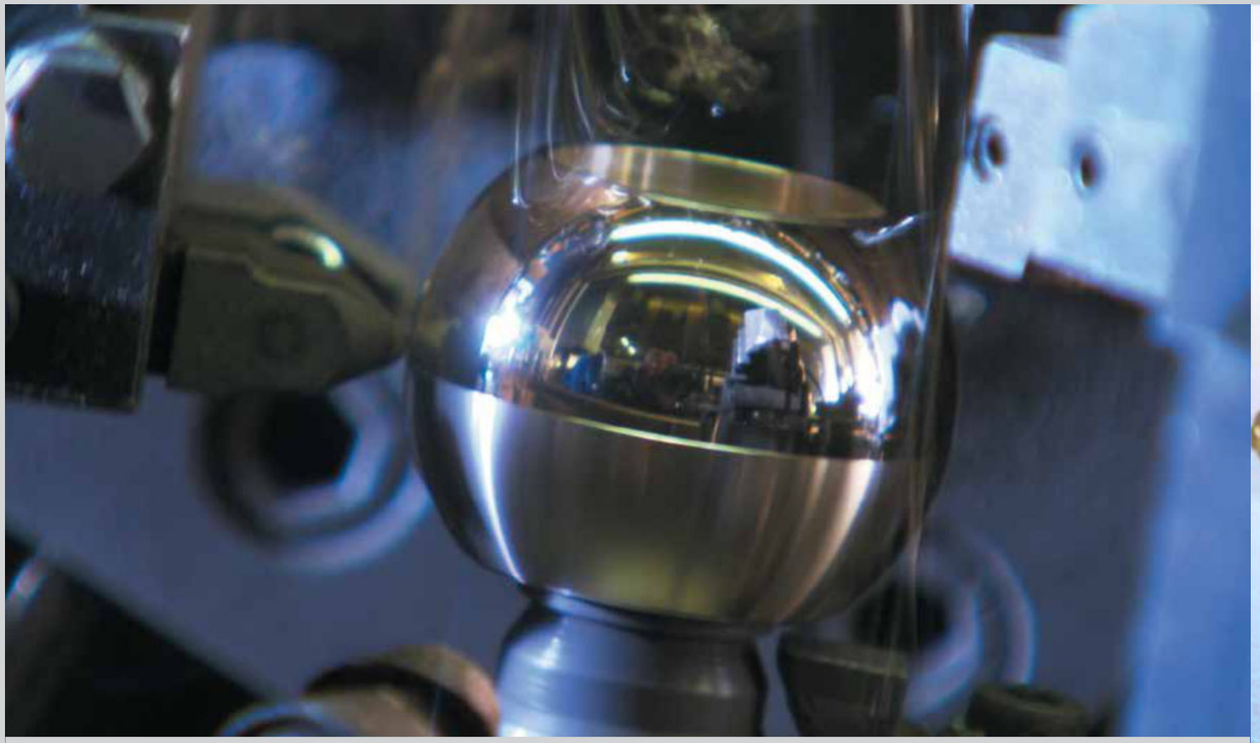
COLDCOM

VALVES FOR REFRIGERATION & AIR CONDITIONING SYSTEMS



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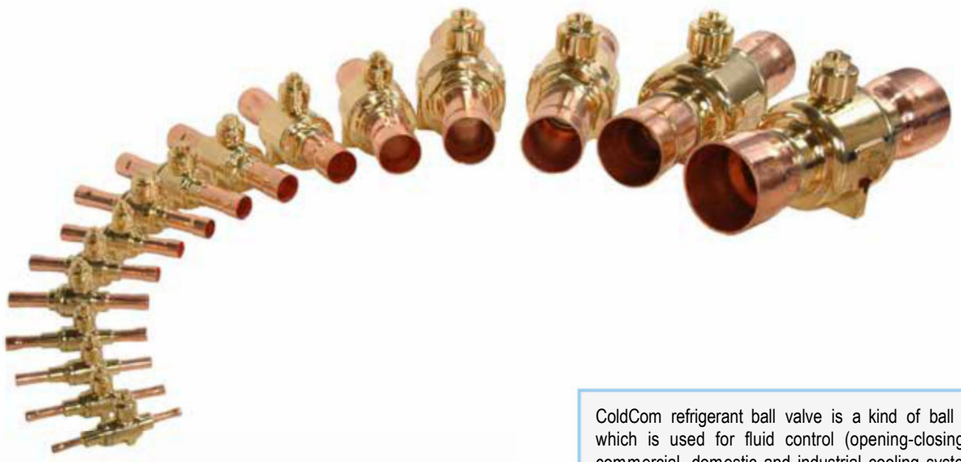
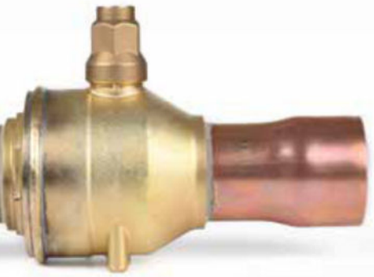
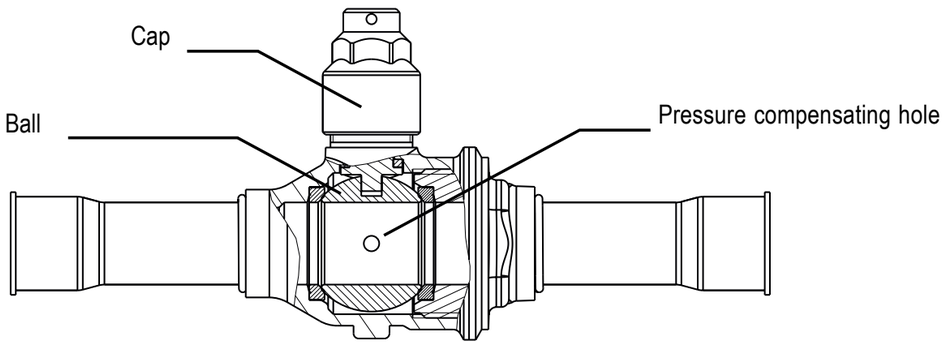


ColdCom refrigerant ball valve is a kind of ball valve, which is used for fluid control (opening-closing) of commercial, domestic and industrial cooling systems according to 2014/68/EU Directive. it is operated by a quarter turn (90°) of the stem. Due to its bi-flow property, the stem can be turned up to 180° in order to balance the pressure in the valve during closed position.





CE Certified according to Pressure Equipment Directive 2014/68/EU.

UL listed according to UL 207 standard.

Bi-Flow Refrigerant Ball Valves

- Excellent internal and external leak tightness performance
- Double safe stem tightness with two o-rings and PTFE gasket
- TIG welding of the body for external tightness
- The optimum distance of welding area ensures protection of valve inner parts against excessive heat increase.
- Detachment of steel stem group due to high pressure is protected by special design
- Brass upper cover can be sealed in order to prevent the usage of unauthorized people
- PTFE gasket in the upper cover gives additional tightness security
- Self-oiling feature of graphited PTFE seats perform very good internal tightness and long-life cycle
- Connection of copper tubes is ensured by silver-based brazing material
- 100% of the production is checked by using Helium Mass Spectrometer with highly sensitive leak values ($5x10^{-5}$ mbar.lt/s)
- Testing of the valves are made according to CE directives and requirements of UL standard

Carbon dioxide Series Bi-Flow Refrigerant Ball Valves

These ball valve products are designed for CO_2 applications. Manufacturing and testing properties are same as the standard ball valve series. Due to the carbon dioxide fluid passing through, stem o-ring is made of EPDM material. in addition, two different nominal pressure values are available as 60 bar and 130 bar according to using field. 130 bar option is designed for high pressure side of the system. These valves can be manufactured with special copper tube (K-65) or stainless steel tube according to customer demand.

Technical Specifications

Nominal Pressure	45 bar (Standard Series) 60 bar (Carbon dioxide Series) 130 bar (Carbon dioxide Series)
Temperature	-40°C , + 150°C
Directive	2014/68/EU (Pressure Equipment)
Field of Use	Suitable for all environmental friendly gases of refrigerant systems (except NH_3). Please use the CO_2 ball valve models for carbon dioxide applications.

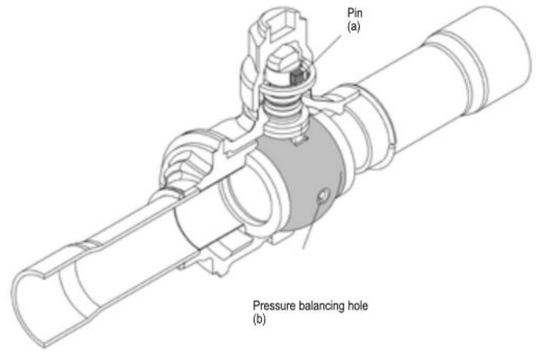
- Maximum flow rate with minimum pressure drop
- Can be brazed in without any need to remove components of the valve
- Can be sealed up against unauthorized usage

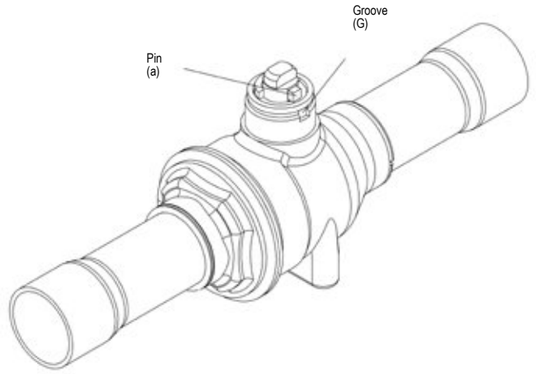
TÜVRheinland®

TUV Certified welding and brazing

Technical Specifications

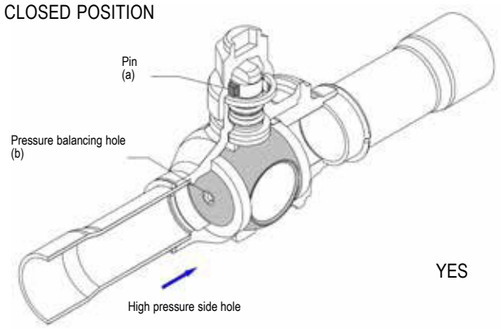
OPEN POSITION





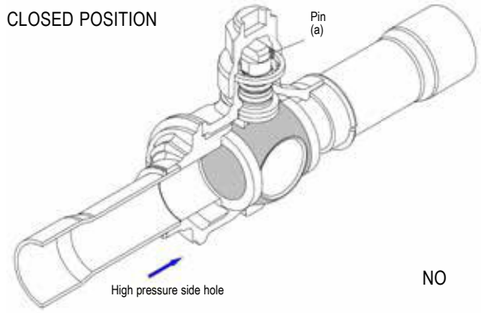
A pin on the stem (a) indicates the direction of the pressure balancing hole (b). If the pin is positioned parallel to the tube axis, it means “valve closed”. If the pin is positioned perpendicular to the tube axis, it means “valve open”. The valves themselves offer an exceptional degree of reliability, which is further enhanced by an additional pressure balancing hole (b) in the ball, which dependably prevents the valve from bursting in the case of a rise in temperature. The hole can be consistently turned by a valve stem to the side exposed to pressure, in accordance with pressure drops, thereby reliably preventing the liquid refrigerant from being shut off inside the ball. The position of hole “b” can be seen when the valve cap is unscrewed and removed. The direction of the pressure balancing hole must be positioned to the high pressure side while the system is closed.

CLOSED POSITION



YES

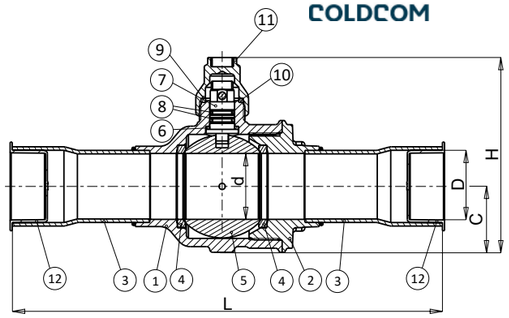
CLOSED POSITION



NO

Technical Specifications

Item	Part Name		Material
1	Body		Brass (CuZn40Pb2, EN 12165, EN 12420, CW617N)
2	Cover		
3	Tube	60 bar	Copper (Cu-OHP, EN 12735-1)
		130 bar	Copper (K-65, EN 12449)
4	Sealing Element		PTFE (%25 Carbon Filled)
5	Ball		Brass (CuZn40Pb2, EN 12165, EN 12420, CW617N)
6	Spindle Gasket		PTFE
7	Spindle		Stainless Steel (AISI 303)
8	O-ring	CFC, HFC, HCFC	Neoprene
		CO_2	EPDM
9	Pin		Stainless Steel (AISI 303)
10	Upper Cvr. Gasket		POM
11	Upper Cover		Brass (CuZn40Pb2, EN 12165, EN 12420, CW617N)
12	Plug		Polyethylene (PE: ISO 1872)

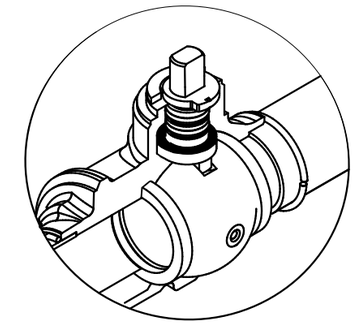


Dimension (ØD)	PN 45 CFC (Neopren O-ring) Without Charging Unit	PN 45 CFC (Neopren O-ring) With Charging Unit	PN 60 CO_2 (EPDM O-ring) Without Charging Unit	PN 60 CO_2 (EPDM O-ring) With Charging Unit	PN 130 CO_2 (EPDM O-ring) & K-65 Without Charging Unit	PN 130 CO_2 (EPDM O-ring) & K-65 With Charging Unit	Ball I.D. (Ød mm)	L (mm)	C (mm)	H (mm)	Kv (m^3/h)
Ø6	601017656	601017222	601017708	601017997	Same codes with PN60 CO_2		10	126	13	51	1,6
Ø8	601017657	601017223	601017709	601017998				132			4,2
Ø10	601017658	601017684	601017710	601017735							5,3
Ø12	601017659	601017685	601017711	601017736				140			6,6
Ø15	601017660	601017686	601017712	601017737	601017763	601017777	16	146	18,5	64	13
Ø16	601017661	601017687	601017713	601017738	601017764	601017778					
Ø18	601017662	601017688	601017714	601017739	601017765	601017779					17
Ø22	601017663	601017689	601017715	601017740	601017766	601017780	20	185	22	74	26
Ø28	601017664	601017690	601017716	601017741	601017767	601017781	25	205	26	80	41
Ø35	601017665	601017691	601017717	601017742	601017768	601017782	32	208	32	100	86
Ø42	601017666	601017692	601017718	601017743	601017769	601017783	38	242	38,5	117	110
Ø54	601017667	601017693	601017719	601017744	601017770	601017784	50	273	48,5	134	208
Ø64 (Ø54)	601017668	601017694	601017720	601017745	---	---		280			
Ø64 (Ø76)	601017263	601017292	601017263-03	601017292-03	---	---	64	378	60	177	340
Ø76	601017264	601017293	601017264-03	601017293-03	---	---					
Ø89	601017265	601017294	601017265-03	601017294-03	---	---	83	423	76	210	480
Ø108	601017266	601017295	601017266-03	601017295-03	---	---					470

Dimension (ØD)	PN 45 CFC (Neopren O-ring) Without Charging Unit	PN 45 CFC (Neopren O-ring) With Charging Unit	PN 60 CO_2 (EPDM O-ring) Without Charging Unit	PN 60 CO_2 (EPDM O-ring) With Charging Unit	PN 130 CO_2 (EPDM O-ring) & K-65 Without Charging Unit	PN 130 CO_2 (EPDM O-ring) & K-65 With Charging Unit	Ball I.D. (Ød mm)	L (mm)	C (mm)	H (mm)	Kv (m^3/h)
1/4"	601017672	601017224	601017724	601017999	Same codes with PN60 CO_2		10	126	13	51	1,6
5/16"	601017657	601017223	601017709	601017998				132			4,2
3/8"	601017673	601017698	601017725	601017749							5,3
1/2"	601017674	601017699	601017726	601017750				140			6,6
---	---	---	---	---	---	---					
5/8"	601017661	601017687	601017713	601017738	601017764	601017778	16	146	18,5	64	13
3/4"	601017675	601017700	601017727	601017751	601017792	601017802					17
7/8"	601017676	601017701	601017728	601017752	601017793	601017803	20	185	22	74	26
1 1/8"	601017677	601017702	601017729	601017753	601017794	601017804	25	205	26	80	41
1 3/8"	601017665	601017691	601017717	601017742	601017768	601017782	32	208	32	100	86
1 5/8"	601017678	601017703	601017730	601017754	601017795	601017805	38	242	38,5	117	110
2 1/8"	601017667	601017693	601017719	601017744	601017770	601017784	50	273	48,5	134	208
2 5/8" (Ø54)	601017679	601017704	601017731	601017755	---	---		280			
2 5/8" (Ø76)	601017275	601017304	601017275-03	601017304-03	---	---	64	378	60	177	340
3 1/8"	601017276	601017305	601017276-03	601017305-03	---	---					
3 5/8"	601017277	601017306	601017277-03	601017306-03	---	---	83	423	76	210	480
4 1/8"	601017278	601017307	601017278-03	601017307-03	---	---					470

NOTE: Sizes Ø6, Ø8, Ø10, Ø12 and inch equivalents of PN60-CO_2 series can be used for PN 130 CO_2 . Ø6, Ø8, 1/4" and 5/16" products have charging unit on body instead of copper tube. Sizes Ø64 (Ø76), Ø76, Ø89, Ø108 and inch equivalents are supplied as "Standard Type".

Refrigerant Ball Valves, Block Ring Series, CFC - CO_2



OPENED POSITION

CLOSED POSITION

PLEASE DO NOT FORGET TO ASSEMBLE THE UPPER COVER AND ITS GASKET. TAKE CARE TO THE MENTIONED TIGHTENING TORQUE. TWO O-RINGS ON THE SPINDLE ARE DESIGNED TO PROVIDE PERFECT TIGHTNESS. IF ANY UNDESIRED LEAKAGE IS OCCURRED FROM THE SPINDLE SIDE AFTER BRAZING OF THE BFV ON YOUR COOLING UNIT, PLEASE SCREW THE NUT (5) SMOOTHLY Y UNTIL TIGHTNESS IS ENSURED AND CHECK IT.

Field of Use

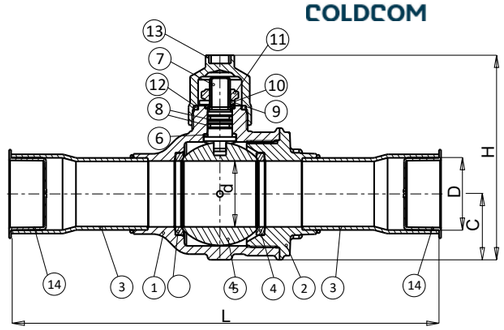
All environmental friendly gases for refrigerant systems (except NH_3) and cooling agents like glycol can be used with this type of valves appropriately. in the CO_2 applications, contact with the manufacturer for the ball valve codes which are used at the low and high pressure side of the system.

Technical Properties
Nominal Pressure
45 bar (Standard production)
60 bar (CO_2 systems, low side)
130 bar (CO_2 systems, high side)

Temperature Range: -40°C , + 150°c
Body Material: Forged brass
(EN 12420, EN 12165, CW617N)

Refrigerant Ball Valves, Block Ring Series, CFC - CO_2

Item	Part Name		Material
1	Body		Brass (CuZn40Pb2, EN 12165, EN 12420, CW617N)
2	Cover		
3	Tube	60 bar 130 bar	60 Bar: Copper (Cu-OHP, EN 12735-1) 130 Bar: Copper (K-65, EN 12449)
4	Sealing Element		PTFE (25% Carbon Filled)
5	Ball		Brass (CuZn40Pb2, EN 12165, EN 12420, CW617N)
6	Spindle Gasket		PTFE
7	Spindle		Stainless Steel (AISI 303)
8	O-ring	CFC, HFC, HCFC CO_2	Neoprene EPDM (CO_2)
9	Belleville Washer		Spring Steel (AISI 301, 1.4310, X12CrNi177)
10	Block Ring		Stainless Steel (AISI 304)
11	Nut		Brass (CuZn39Pb3, EN 12164, EN 12420, CW614N)
12	Upper Cvr. Gasket		POM
13	Upper Cover		Brass (CuZn40Pb2, EN 12165, EN 12420, CW617N)
14	Plug		Polyethylene (PE: ISO 1872)

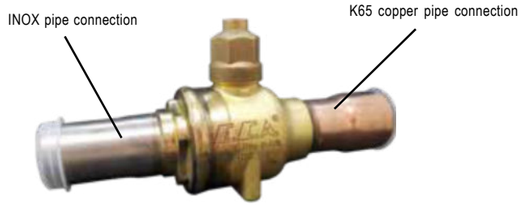


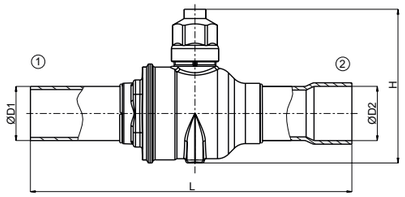
Dimension (ØD)	PN 45 CFC (Neopren O-ring) Without Charging Unit	PN 45 CFC (Neopren O-ring) With Charging Unit	PN 60 CO_2 (EPDM O-ring) Without Charging Unit	PN 60 CO_2 (EPDM O-ring) With Charging Unit	PN 130 CO_2(EPDM O-ring) & K-65 Without Charging Unit	PN 130 CO_2(EPDM O-ring) & K-65 With Charging Unit	Ball I.D. (Ødmm)	L (mm)	C (mm)	H (mm)	Kv (m^3/h)
Ø6	601017898	601027013	601027258	601027024	601017925	601027024	10	126	13	49	1,6
Ø8	601017899	601027014	---	601027025	601017926	601027025		132			4,2
Ø10	601017900	601017964	601027260	601017980	601017927	601017980					5,3
Ø12	601017901	601017965	601027261	601017981	601017928	601017981		140			6,6
Ø15	601017902	601017966	601017929	601017982	601017963	601027001	16	146	18,5	61	13
Ø16	601017903	601017967	601017930	601017983	601017952	601027002					
Ø18	601017904	601017968	601017931	601017984	601017953	601027003					17
Ø22	601017905	601017969	601017932	601017985	601017954	601027004	20	185	22	72	26
Ø28	601017906	601017970	601017933	601017986	601017955	601027005	25	205	26	78	41
Ø35	601017907	601017971	601017934	601017987	601017956	601027006	32	208	32	92	86
Ø42	601017908	601017972	601017935	601017988	601017957	601027007	38	242	38,5	112	110
Ø54	601017909	601017973	601017936	601017989	601017958	601027008	50	273	48,5	130	208
Ø64 (Ø54)	601017910	601027015	601017937	601027026	---	---		280			
Ø64 (Ø76)	601027064	601027068	601027066	601027070	---	---	64	378	60	177	340
Ø76	601017911	601027016	601017938	601027027	---	---					
Ø89	601017912	601027017	601017939	601027028	---	---	83	423	76	210	480
Ø108	601017913	601027018	601017940	601027029	---	---					470

Dimension (ØD)	PN 45 CFC (Neopren O-ring) Without Charging Unit	PN 45 CFC (Neopren O-ring) With Charging Unit	PN 60 CO_2 (EPDM O-ring) Without Charging Unit	PN 60 CO_2 (EPDM O-ring) With Charging Unit	PN 130 CO_2(EPDM O-ring) & K-65 Without Charging Unit	PN 130 CO_2(EPDM O-ring) & K-65 With Charging Unit	Ball I.D. (Ødmm)	L (mm)	C (mm)	H (mm)	Kv (m^3/h)
1/4"	601017914	601027019	601017941	601027030	601017941	601027030	10	126	13	49	1,6
5/16"	601017899	601027014	---	601027025	601017926	601027025		132			4,2
3/8"	601017915	601017974	601017942	601017990	601017942	601017990					5,3
1/2"	601017916	601017975	601017943	601017991	601017943	601017991		140			6,6
---	---	---	---	---	---	---	16	146	18,5	61	13
5/8"	601017903	601017967	601017930	601017983	601017952	601027002					
3/4"	601017917	601017976	601017944	601017992	601017959	601027009					17
7/8"	601017918	601017977	601017945	601017993	601017960	601027010	20	185	22	72	26
1-1/8"	601017919	601017978	601017946	601017994	601017961	601027011	25	205	26	78	41
1-3/8"	601017907	601017971	601017934	601017987	601017956	601027006	32	208	32	92	86
1-5/8"	601017920	601017979	601017947	601017995	601017962	601027012	38	242	38,5	112	110
2-1/8"	601017909	601017973	601017936	601017989	601017958	601027008	50	273	48,5	130	208
2-5/8" (Ø54)	601017921	601027020	601017948	601027031	---	---		280			
2-5/8" (Ø76)	601027065	601027069	601027067	601027071	---	---	64	378	60	177	340
3-1/8"	601017922	601027021	601017949	601027032	---	---					
3-5/8"	601017923	601027022	601017950	601027033	---	---	83	423	76	210	480
4-1/8"	601017924	601027023	601017951	601027034	---	---					470

NOTE: Sizes Ø6, Ø8, Ø10, Ø12 and inch equivalents of PN60-CO_2 series can be used for PN 130 CO 2 . Ø6, Ø8, 1/4" and 5/16" products have charging unit on body instead of copper tube.

INOX - K65 Refrigerant Ball Valves

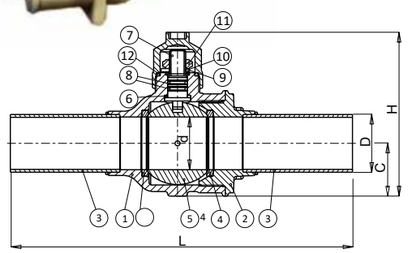




Product Code	INOX Side Dimensions ØD1	Copper (K65) Side Dimensions ØD2	L	H
601027173	1/2" Ø21.3 +0.4 -0.79 mm	7/8" Ø22.35 +0.12 mm	185	78.8
601027174	3/4" Ø26.67 +0.4 -0.79	1-1/8" mm Ø28.75 +0.12 mm	205.4	87.8
601027175	1" Ø33.4 +0.4 -0.79 mm	1-3/8" Ø35.09 +0.14 mm	208	99.4
601027176	Ø35 Ø35 +0.4 -0.1	Ø35 mm Ø35.09 +0.14 mm	208	99.4
601027177	1-1/4" Ø42.16 +0.4 -0.79	1-5/8" mm Ø41.45 +0.14 mm	241.8	121.5
601027178	1-1/2" Ø48.26 +0.4 -0.79	2-1/8" mm Ø54.2 +0.15 mm	273	140.8

Nominal Pressure	130 bar
Filed of Use	CO_2 refrigerant
Temperature Range	-40°C , +150°C
Copper Pipe	K65 (CuFe2P, CW107C), EN 12735-1
INOX Pipe	AISI 304, EN ISO 1127
Directive	2014/68/EU Pressure Equipment Directive

Refrigerant Ball Valves, Block Ring Series with Stainless Steel Pipe (PN 140, CO_2, AISI 304)



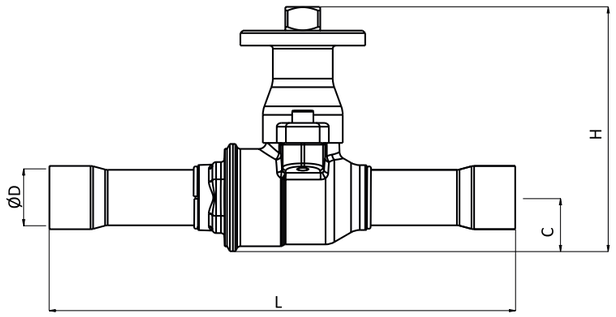
Item	Part Name	Material
1	Body	Brass (CuZn40Pb2, EN 12165, EN 12420, CW617N)
2	Cover	
3	Tube	Stainless Steel (EN ISO 1127)
4	Sealing Element	PTFE (25% Carbon Filled)
5	Ball	Brass (CuZn40Pb2, EN 12165, EN 12420, CW617N)
6	Spindle Gasket	PTFE
7	Spindle	EPDM (CO_2)
8	O-ring	EPDM (CO_2)
9	Belleville Washer	Spring Steel (AISI 301, 1.4310, X12CrNi177)
10	Block Ring	Stainless Steel (AISI 304)
11	Nut	Brass (CuZn39Pb3, EN 12164, EN 12420, CW614N)
12	Upper Cvr. Gasket	POM
13	Upper Cover	Brass (CuZn40Pb2, EN 12165, EN 12420, CW617N)
14	Plug	Polyethylene (PE: ISO 1872)

Metric (Metric) Dimension (ØD)	Metric (Metric) Product No.	Metric (Metric) Product No.With Charging Unit	İnç (Inch) Nominal Diameter	İnç (Inch) Product No.	İnç (Inch) Product No.With Charging Unit	Ball I.D. (Ød mm)	L (mm)	C (mm)	H (mm)	KV (m^3/h)
Ø6	601017810	---	---	---	---	10	126	13	54,8	1,6
Ø8	601017811	---	---	---	---	10	132	13	54,8	4,2
Ø10	601017812	601017826	1/8" (10,3 mm)	601017841	601017851	10	132	13	54,8	5,3
Ø12	601017813	601017827	1/4" (13,7 mm)	601017842	601017852	10	140	13	54,8	6,6
Ø15	601017814	601017828	---	---	---	16	146	18,5	67,1	13
Ø16	601017815	601017829	---	---	---	16	146	18,5	67,1	13
Ø18	601017816	601017830	3/8" (17,2mm)	601017843	601017853	16	146	18,5	67,1	17
Ø22	601017817	601017831	1/2" (21,3 mm)	601017844	601017854	20	185,5	22	78,8	26
Ø28	601017818	601017832	3/4" (26,7 mm)	601017845	601017855	25	205,4	26	87,8	41
Ø35	601017819	601017833	1" (33,4 mm)	601017840	---	32	208	32	99,4	86
Ø42	601017820	601017834	1 1/4" (42,2 mm)	601017846	601017856	38	241,8	38,5	120,3	110
Ø54	601017821	601017835	1 1/2" (48,3 mm)	601027061	601027062	50	273	45	131	208

* * 601017597: Special code, ODS= Ø33,7mm

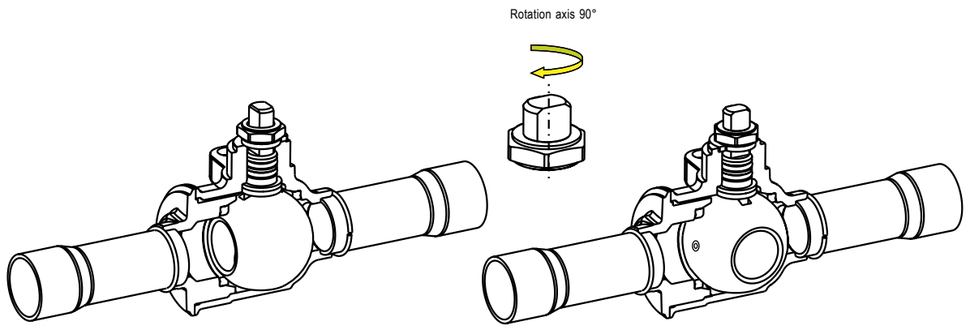
Inch series butt-welding connections for stainless steel pipe series comply with ANSI B36.19

2-Way Refrigerant Ball Valves With Actuator Connection

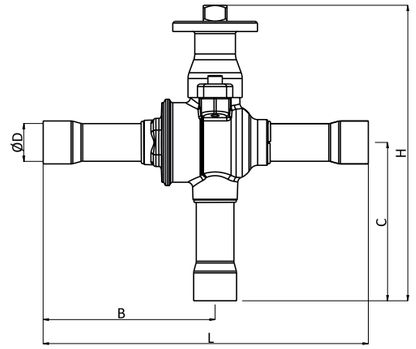


NOTE: Adapter is included to the product, which ensures the connection of ball valve and electric actuator.

Nominal Dimension (ØD)	Product Code	Nominal Diameter (ØD)	Product Code	L (mm)	C (mm)	H (mm)	Kv (m^3/h)
Ø15	601027060	---	---	146	16	92,5	13
Ø16 - 5/8"	601017424	Ø16 - 5/8"	601017424	146	16	92,5	13
Ø18	601027053	3/4"	601017425	146	16	92,5	17
Ø22	601027054	7/8"	601017426	186	19,5	95	26
Ø28	601027055	1 1/8"	601017427	208	35	108,5	41
Ø35 - 1 3/8"	601017428	Ø35 - 1 3/8"	601017428	208	29,5	114,5	86
Ø42	601027056	1 5/8"	601017429	242	35	137	110
Ø54	601027106	Ø54 - 2 1/8"	601027106				

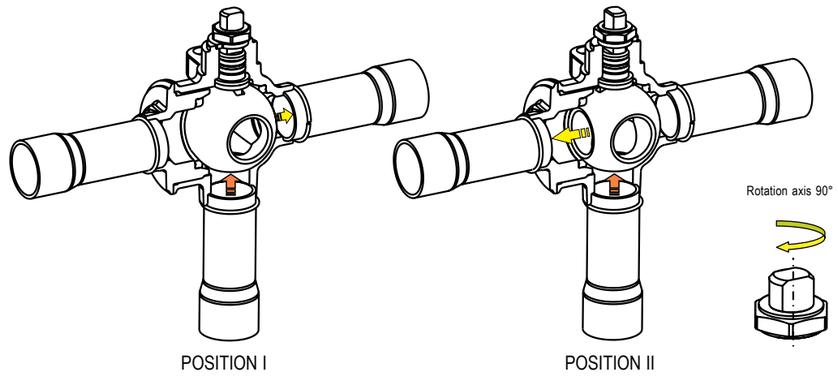


3-Way Refrigerant Ball Valves With Actuator Connection



NOTE: Adapter is included to the product, which ensures the connection of ball valve and electric actuator.

Nominal Dimension (ØD)	Product Code	Nominal Diameter (ØD)	Product Code	B (mm)	L (mm)	C (mm)	H (m^3/h)	Kv (m^3/h)
Ø15	601027059	---	---	76,5	164	79	160	5,8
Ø16 - 5/8"	601017882	Ø16 - 5/8"	601017414	76,5	164	79	160	5,8
Ø18	601027049	3/4"	601017415	76,5	164	79	160	10,2
Ø22	601027050	7/8"	601017416	91	193,5	93,5	174,5	14,1
Ø28	601027051	1 1/8"	601017417	106	222	111,5	196,5	22,7
Ø35 - 1 3/8"	601017418	Ø35 - 1 3/8"	601017418	100	210	105,5	192,5	42,4
Ø42	601027052	1 5/8"	601017419	117	246	131,5	243	61,2



Solenoid Valves

Solenoid Valves are designed to be installed on refrigeration and air conditioning systems. Solenoid valves are compatible with all environmental friendly refrigerants like CFC, HFC, HCFC and CO_2 (except NH_3). Valves can be easily soldered to the system with copper tube connection. Every product is 100% tested for external leakages with helium detector. Coil assembly with additional customers ensures corrosion resistance and long life cycle.

Coil		220 V AC		12V DC		24V DC	
Medium		CO_2	CFC, HCF, HCFC	CO_2	CFC, HCF, HCFC	CO_2	CFC, HCF, HCFC
Direct Acting	1/4"	601026121	601026123	601026158	601026164	601026170	601026176
	3/8"	601026122	601026124	601026159	601026165	601026171	601026177
Diaphragm Operated	1/2"	601026149	601026153	601026160	601026166	601026172	601026178
	5/8"	601026150	601026154	601026161	601026167	601026173	601026179
	3/4"	601026151	601026155	601026162	601026168	601026174	601026180
	7/8"	601026152	601026156	601026163	601026169	601026175	601026181

Technical Specifications

Directive	2014/68/EU (Pressure Equipment)
Coil Power	24 VA (220 V AC) Please contact to manufacturer for other coil types.
Ingress Protection	IP 64
Medium Temperature	-30°C, +150°C
Ambient Temperature	-30°C, +60°C
Filed of Use	CFC, HFC, HCFC and CO_2 (except NH_3)

Rotalock Valves 130 Bar $C0_2$

Coldcom Rotalock Valves are specially designed valves which control the refrigerant fluid on every side of the system needed. ColdCom Rotalock Valves are compatible with safety valves. Safety valve adapted models, protect the system with its three different stem position (fully open -safety valve deactivate, open -safety valve active, closed -safety valve active) no matter when the valve is open or closed. Also safety valve could be changed on deactivate position. Rotalock valves ensure perfect internal leak tightness with carbon fiber filled gasket. With service valve, 1/4” copper pipe connection or blind tap, refrigerant fluid could be charged into or discharged from the system.

1/4" service copper tube

Safety valve options:
25, 30, 40, 45, 53, 60, 80, 120, 135 bar

Size	Product Code
Ø10	601006217
Ø12	601006218
Ø15	601006183
Ø16 - 5/8"	601006184
Ø18	601006185
Ø22	601006186
Ø28	601006187
Ø35 - 1-3/8"	601006188
Ø42	---
Ø54 - 2-1/8"	---
3/8"	601006219
1/2"	601006220
3/4"	601006202
7/8"	601006203
1-1/8"	601006204
1-5/8"	---

1/4" service Copper tube

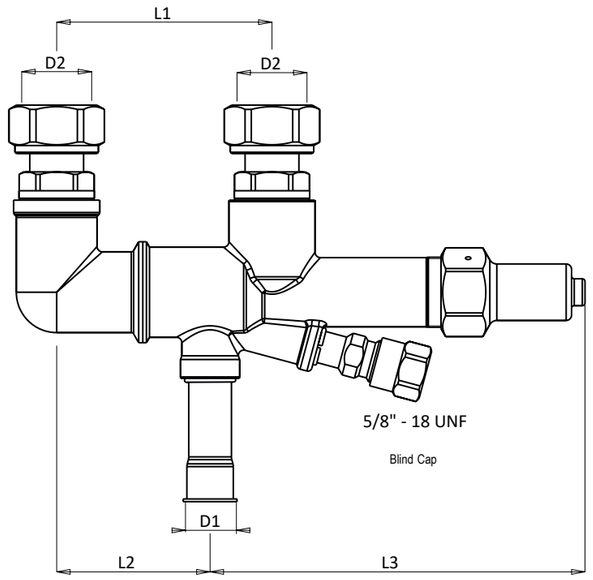
• Red labelled codes will be manufactured upon orders.

Safety Valves & Changeover Valves

Safety Valves are used in piping systems that carry fluids in gas or vapor phase. In case of pressure increase in the system, if the preset pressure value is exceeded, valve automatically opens and ensures safety. After discharging some amount of fluid, the disc closes again due to the pressure decrease in piping.

Changeover Devices are the service valves that allow separating the system during periodic control or replacement. Double safety valves can be assembled. By this way, while working on the isolated part, the other safety valve will continue to operate.

Union group and nipples are used for assembling the safety valves and changeover devices to each other.



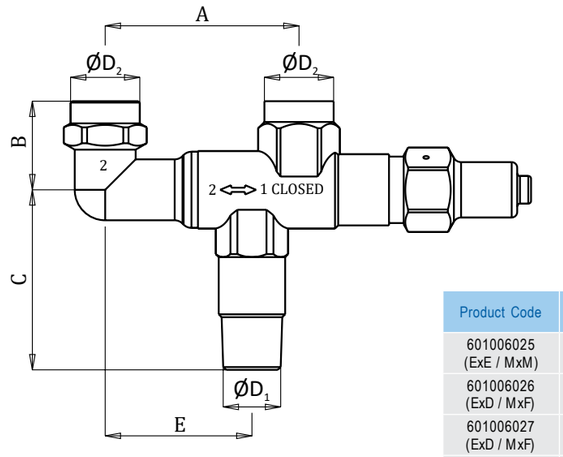
Product Code	Inlet (ØD1)	Outlet (ØD2)	L1	L2	L3
601006216*	15	M26x1.5	80	57	140
601006240* *	15	G 3/4"	80	57	140

Product Code	Inlet (ØD1)	Outlet (ØD2)	L1	L2	L3
601006243	22	M24x1.5	80	57	136

Union Nipple Code	Inlet (ØD3)	Outlet (ØD4)
602399799	M26x1.5	M24x1.5
602399800	G3/4"	

* These product is available with DN10 Safety Valve Series.
* * These product is available with DN6 Safety Valve Series.

Changeover Valves

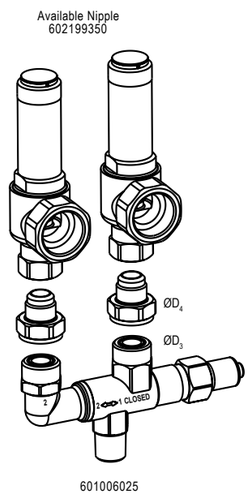


Product Code	Inlet (ØD)	Outlet (ØE)	A (mm)	B (mm)	C (mm)	E (mm)	Kv (m^3/h)
601006025 (ExE / MxM)	R 1/2" ISO 7-1	G 3/4"	70	36.5	45	53	7
601006026 (ExD / MxF)	1/2" - 14 NPT	1/2" - 14 NPT		32	65		
601006027 (ExD / MxF)	3/8" - 18 NPT	3/8" - 18 NPT					
601006242 (ExD / MxF)	1/2" - 14 NPT	M24x1.5		36.5	44		

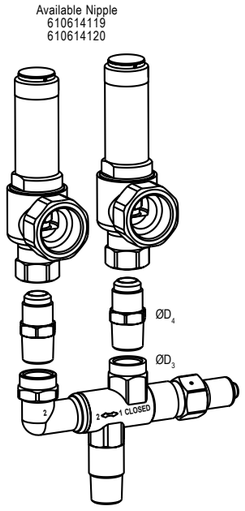
Technical Specifications

Directive	2014/68/EU Pressure Equipment Directive
Max. Working Pressure	120 Bar
Temperature Range	-40°C, +150°C
Body Material	Forged Brass (EN 12420, EN 12165)
Field of Use	Suitable for all refrigerant gases of refrigerant systems and CO_2 (except NH_3)

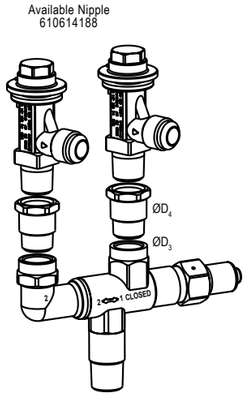
Union Nipple	Inlet ($ØD_3$)	Outlet ($ØD_4$)
602199350 (DxE / FxM)	G 3/4" (D / F)	G 1/2" (E / M)
610614119 (ExE / MxM)	1/2" - 14 NPT (E / M)	G 1/2" (E / M)
610614120 (ExE / MxM)	3/8" - 18 NPT (E / M)	G 1/2" (E / M)
610614188 (ExD / MxF)	1/2" - 14 NPT (E / M)	R1/2" ISO 7-1 (D / F)
602399799 (ExD / MxF)	M24x1.5 (E / M)	M26x1.5 (D / F)
602399800 (ExD / MxF)	M24x1.5 (E / M)	G 3/4" (D / F)



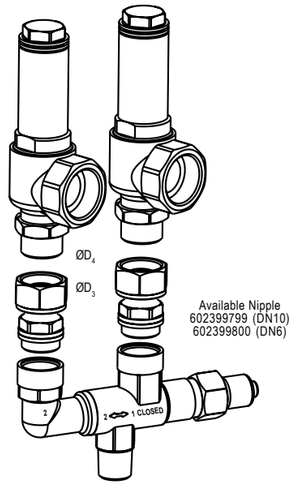
601006025



601006026, 601006027



601006026

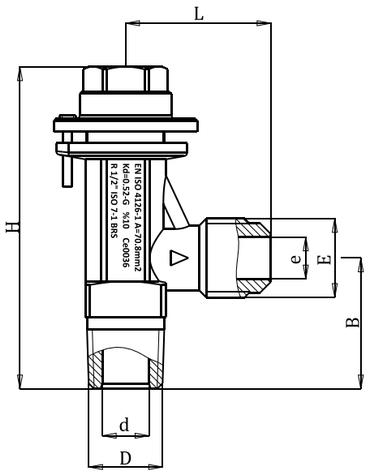


601006242

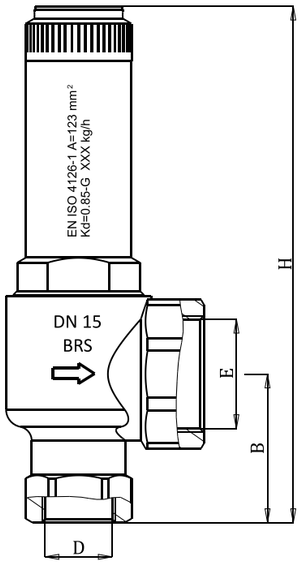
Technical Specifications

COLDCOM

Directive	: 2014/68/EU (Pressure Equipment)
Category	: IV
Relevant Standards	: EN 378-2, EN ISO 4126-1, EN 13136
Temperature Range	: -40°C , + 150°C
Discharge Coefficient	: Kd = 0,85
Body Material	: Forged Brass (EN 12420, EN 12165, CW 617N)
Field of Use	: Suitable for all refrigerant gases of refrigerant systems and CO_2 (except NH_3)



Product Code	Set Pressure (bar)	Discharge (kg/h)	Inlet (ØD)	Outlet (ØE)	Ød (mm)	Øe (mm)	B (mm)	H (mm)	L (mm)
601011015	14	462	R 1/2" ISO 7-1	7/8" -14 UNF (5/8" SAE)	9,5	11,7	36,5	89	40,5
601011016	16	524							
601011017	19	616							
601011018	25	802							
601011019	28	895							
601011020	30	957							
601011061	42	1329							
601011021	14	314	R 1/4" ISO 7-1	5/8" -18 UNF (3/8" SAE)	7,5	8	33,5	87	36
601011022	16	356							
601011023	19	419							
601011024	25	545							
601011025	28	608							
601011026	30	651							
601011065-014	14	462	1/2" - 14NPT	7/8" -14 UNF (5/8" SAE)	9,5	11,7	36,5	89	40,5
601011065-016	16	524							
601011065-019	19	616							
601011066-025	25	802							
601011066-028	28	895							
601011066-030	30	957							



Product Code	Set Pressure (bar)	Discharge (kg/h)	Inlet (ØD)	Outlet (ØE)	B (mm)	H (mm)
601011003-014	14	1308	G 1/2"	G 1	42	145
601011003-016	16	1483				
601011003-019	19	1746				
601011003-025	25	2273				
601011004-028	28	2536				
601011004-030	30	2711				
601011005-045	45	4027				
601011009-014	14**	1308	G 1/2"	G 1	42	145
601011009-016	16**	1483				
601011009-019	19**	1746				
601011010-025	25**	2273				
601011011-028	28**	2536				
601011011-030	30**	2711				

* There is 4 bar back pressure at the discharge side (aut/et). Based on customer demand different back pressure adjusted valves can be manufactured.

Safety Valves with Elbow Outlet

COLDCOM

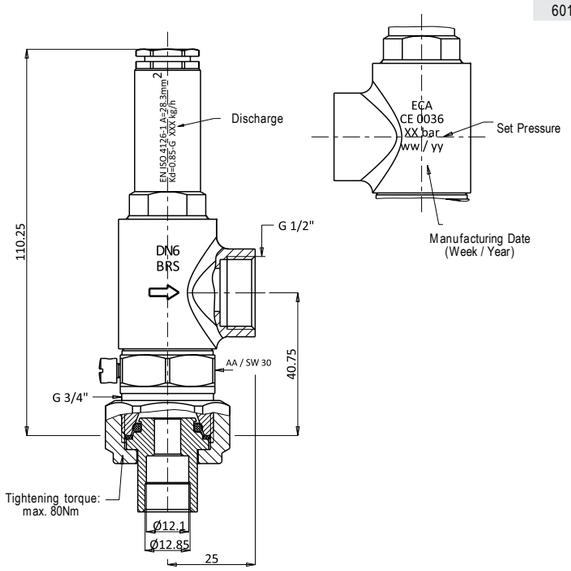
DN10

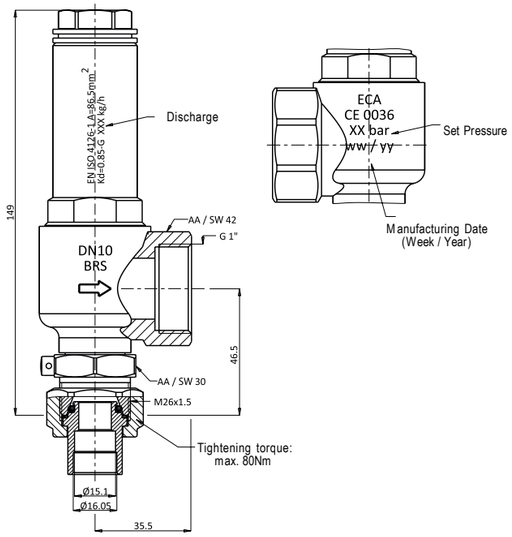
Product Code	Set Pressure (bar)	Discharge (kg/h)
601011060 01 030	30	1914
601011030 01 040	40	2532
601011030 01 045	45	2842
601011030 01 052	52	3275
601011059 01 060	60	3770
601011059 01 080	80	5009
601011058 01 120	120	7485

DN6

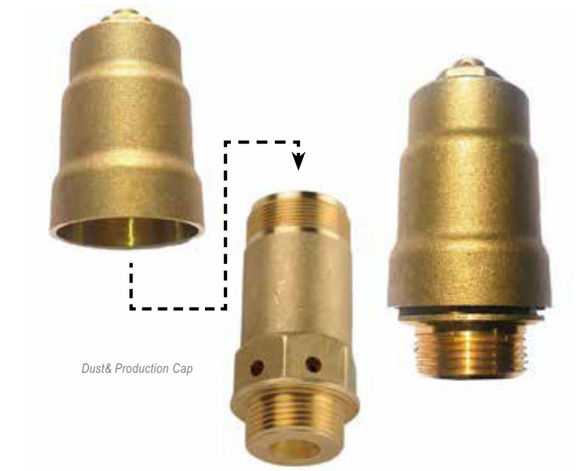
Product Code	Set Pressure (bar)	Discharge (kg/h)
601011044 01 025	25	524
601011044 01 030	30	625
601011045 01 040	40	828
601011045 01 045	45	929
601011120 01 080	80	5009
601011057 01 120	120	2446

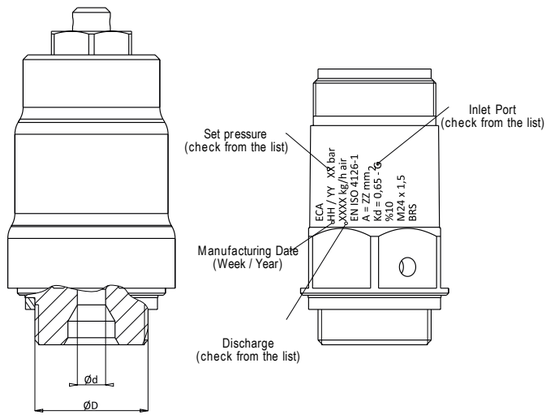
Product Code	Set Pressure (bar)	Discharge (kg/h)	DN
601011087 01 060	60	3770	6
601011088 01 080	80	5009	6
601011083 01 080	80	5009	10
601011084 01 120	120	7485	10



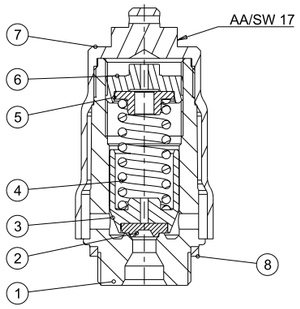


Safety Valves for Rotalock, Compact Type





Product Code	Inlet Connection (ØD)	Inlet Port (Ød)	Set Pressure (bar)	Discharge (kg/h)
601011034	M24x1,5	6	25	399
601011055			30	477
601011035			40	631
601011036			45	708
601011056			53	831
601011063			60	939
601011040		7	80	1703
601011037			120	2545
601011041			135	2861

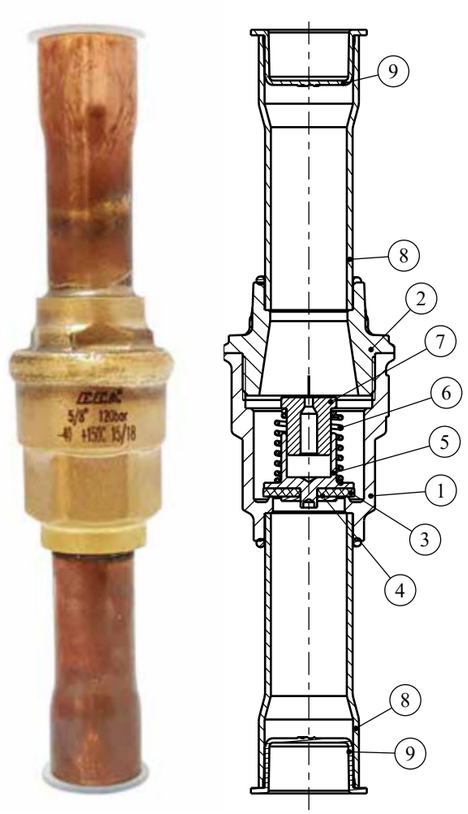


Index	Part Name	Material
1	Body	CuZn40Pb2
2	Gasket	PTFE (%25 CF)
3	Gasket House	CuZn39Pb3
4	Spring	X12CrNi17-7 (AISI 301)
5	Spring Holder	CuZn39Pb3
6	Adjusting Screw	CuZn39Pb3
7	Upper Cover	CuZn40Pb2
8	Sealing Ring	PTFE (%25 CF)

Technical Specifications

Directive	2014/68/EV (Pressure Equipment)
Category	IV
Relevant Standards	EN 378-2, EN ISO 4126-1, EN 13136
Temperature Range	Kd = 0,52 (R 1/2") Kd = 0,65 (R 1/4") Kd = 0,65 (M24x1 ,5)
Overpressure	%1O x (Set pressure)
Body Material	Forged Brass (EN 12420, EN 12165, CW 617N)
Field of Use	Suitable for all environmental friendly gases of refrigerant systems and CO_2(except NH_3)

Check-valves



Refrigerant check-valves are used for block refrigerant flow from one side while allowing the other. Our products are compatible with CFC, HFC, HCFC and CO_2 refrigerants (except NH_3). Body and cover connection is TUV certified TIG welded. K-65 copper tube products had designed to use on high side of refrigerant systems.

Nominal Pressure		45 bar		130 bar
Medium		CO_2	CFC, HFC, HCFC	CO_2
With Solder End	1/4"	601007045	601007058	Same codes with PN45 CO_2
	5/16"	601007046	601007059	
	3/8"	601007047	601007060	
	1/2"	601007048	601007061	
	5/8"	601007049	601007062	601007071
	3/4"	601007050	601007063	601007072
	7/8"	601007051	601007064	601007073
	1-1/8"	601007052	601007065	601007074
	1-3/8"			
	1-5/8"			

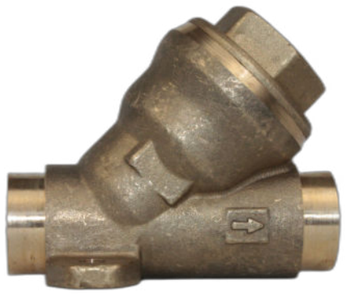
Note: Medium 1-1/8", 1-3/8", 1-5/8" On Request

Item	Part Name		Material
1	Body		Brass (CuZn40Pb2)
2	Cover		Brass (CuZn40Pb2)
3	Gasket	CFC, HFC, HCFC	Neoprene
		CO_2	EPDM
4	Gasket Ring		Brass (CuZn30)
5	Gasket House		Brass (CuZn39Pb3)
6	Spring		Stainless Steel
7	Spring Holder		Brass (CuZn39Pb3)
8	Copper Tube	45 bar	Copper (Cu-OHP) (Half Hard Copper)
		120 bar	Copper (K-65)
9	Plastic Tap		Polyethylene

Technical Specifications

Directive	2014/68/EU Pressure Equipment
Max. Working Pressure	45 bar, 120 bar
Temperature Range	-40°C, +150°C
Field of Use	Suitable with CFC, HFC, HCFC and CO_2 (except NH_3)

“Y’ - Strainers 130Bar

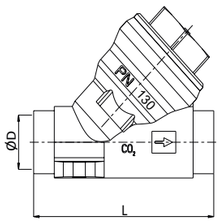


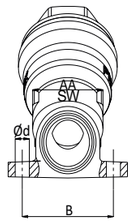
Strainers are used for filtering the undesired particles in refrigerant systems. There is a stainless steel filter in the body for this purpose. The filter can be pull out by removing the upper cover in order to make cleaning. Please take care to the flow direction arrow while assembling. Tightness is ensured by o-ring and 100% of the production is tested by Helium Mass Spectrometer.

Technical Specifications

Max. Working Pressure	130 bar
Body Material	Forged Brass (EN 12420, EN 12165, CW 617N)
Mesh Size	180 µm
Field of Use	Suitable tor all environmental friendly gases of refrigerant systems (except NH_3). Please use the CO_2 strainer models for carbon dioxide applications.

PN 130 CO_2

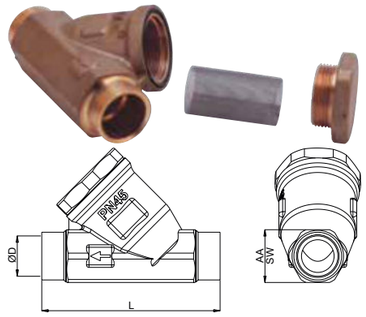




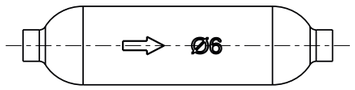
Metric Series		Inch Series		L (mm)	B (mm)	Ød (mm)	AA SW (mm)
Nominal Diameter	Product Code	Nominal Diameter	Product Code				
Ø6	601010078	1/4"	601010071	83	42	6,5	33
Ø8 - 5/16"	601010070	Ø8 - 5/16"	601010070				
Ø10	601010076	3/8"	601010069				
Ø12	601010075	1/2"	601010068				
Ø15	601010074	Ø16 - 5/8"	601010067				
Ø18	601010073	3/4"	601010066				
Ø22	601010072	7/8"	601010065				

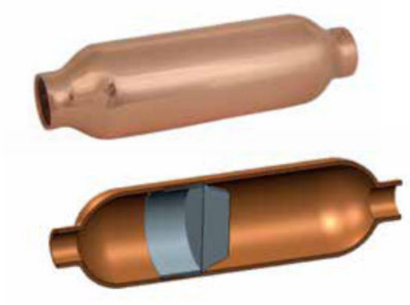
“Y’ - Strainers 45Bar

PN 45 CFC, HFC, HCFC & CO_2



Metric Series			Inch Series			L (mm)	AA SW (mm)
Nominal Diameter	Product Code		Nominal Diameter	Product Code			
	CFC, HFC, HCFC	CO_2		CFC, HFC, HCFC	CO_2		
Ø6	601010308	601010056	1/4"	601010079	601010086	71	21
Ø8	601010309	601010057	5/16"	601010080	601010087		
Ø10	601010310	601010058	3/8"	601010081	601010088		
Ø12	601010311	601010059	1/2"	601010082	601010089		
Ø15	601010312	601010060	5/8"	601010083	601010090		
Ø18	601010313	601010061	3/4"	601010084	601010091	76	27
Ø22	601010314	601010062	7/8"	601010085	601010092		





Copper Strainers

Copper strainers are used for filtering the undesired particles in refrigerant systems. There is a stainless steel screen in the body for this purpose. When the collected dirts starts to reduce the flow, the filter should be changed with a new one.

Metric Series			Inch Series		
Nominal Diameter	Product Code	Inlet ØA Outlet ØB	Nominal Diameter	Product Code	Inlet ØA Outlet ØB
Ø6	601010093	$6\ ^{+0,155}_{+0,065}$	1/4"	601010100	$6,46^{+0,1}$
Ø8 - 5/16"	601010094	$8\ ^{+0,155}_{+0,065}$	Ø8 - 5/16"	601010094	$8\ ^{+0,155}_{+0,065}$
Ø10	601010095	$10\ ^{+0,155}_{+0,065}$	3/8"	601010101	$9,65^{+0,1}$
Ø12	601010096	$12\ ^{+0,155}_{+0,065}$	1/2"	601010102	$12,85^{+0,1}$
Ø15	601010097	$15\ ^{+0,155}_{+0,065}$	Ø16 - 5/8"	601010103	$16,05^{+0,1}$
Ø18	601010098	$18\ ^{+0,155}_{+0,065}$	3/4"	601010104	$19,2^{+0,12}$
Ø22	601010099	$22\ ^{+0,155}_{+0,065}$	7/8"	601010105	$22,35^{+0,12}$

Technical Specifications

Body Material	Ø25,4 x 0,8 R290 Copper (EN 12735-1)
Mesh Size	175 µm
Field of Use	Suitable for all refrigerant gases of refrigerant systems (except NH_3)

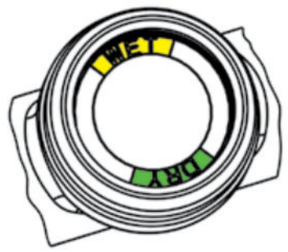
Moisture Indicators - Sight Glass

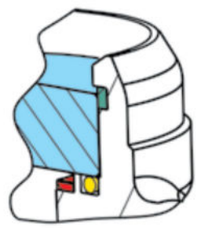
These products are a kind of sight glasses with single body. They are used in refrigerant systems to provide a reliable moisture indication with sensitive paper. Also can be used to check if the level of the flow in the system is as desired. The colour change specifies the moisture content of the system as “Green” colour means dry and “Yellow” colour means wet.

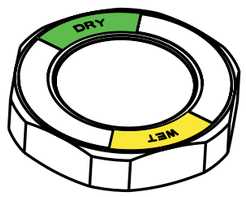
Technical Specifications

Max. Working Pressure	60 bar
Body Material	Forged Brass (EN 12420, EN 12165, CW 617N)
Field of Use	Suitable with CFC, HFC, HCFC.

Max. Working Pressure	45 bar
Body Material	Forged Brass (EN 12420, EN 12165, CW 617N)
Field of Use	Suitable with CFC, HFC, HCFC.

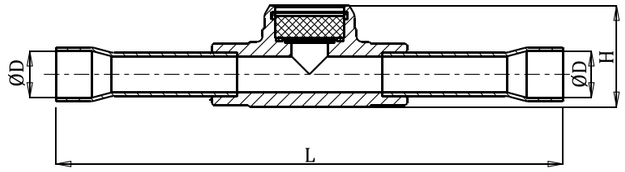






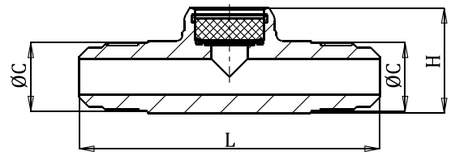
Technical Specifications

Solder End Type - 60 Bar



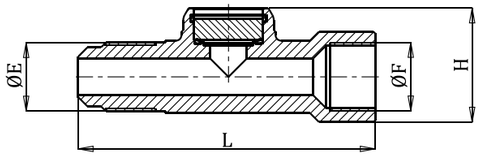
Metric Series		Inch Series		L (mm)	H (mm)
Product Code	ØD	Product Code	ØD		
601017395	Ø6	601017388	1/4"	129,8	25
601017396	Ø10	601017389	3/8"	136	26,75
601017397	Ø12	601017390	1/2"	140	28
601017391	Ø16 - 5/8"	601017391	5/8" - Ø16	141	30,75
601017398	Ø18	601017392	3/4"	141	30,75
601017399	Ø22	601017393	7/8"	173	36,5
601017400	Ø28	601017394	1 1/8"	178	40,5

Flare Male Thread x Flare Male Thread - 60 Bar



Product Code	Connection Thread	Tube Nominal Diameter	L (mm)	H (mm)
601017401	7/16" - 20 UNF	1/4" SAE	71	25
601017402	5/8" - 18 UNF	3/8" SAE	80	27,5
601017403	3/4" - 16 UNF	1/2" SAE	83	29
601017404	7/8" - 14 UNF	5/8" SAE	87	30,75
601017405	1 1/16" - 14 UNF	3/4" SAE	97	36,5

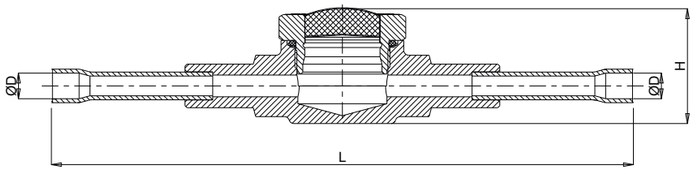
Flare Male Thread x Female Thread - 60 Bar



Product Code	Connection Thread	Tube Nominal Diameter	L (mm)	H (mm)
601017406	7/16" - 20 UNF	1/4" SAE	71	27,5
601017407	5/8" - 18 UNF	3/8" SAE	78,5	30,5
601017408	3/4" - 16 UNF	1/2" SAE	82	31,5
601017409	7/8" - 14 UNF	5/8" SAE	91	37

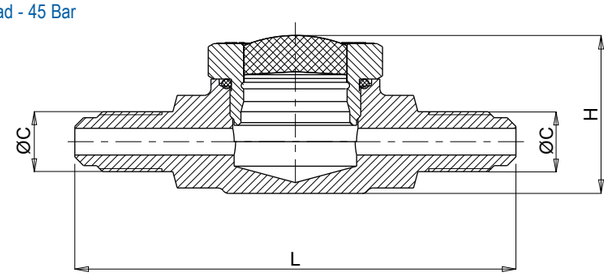
Technical Specifications

Solder End Type - 45 Bar



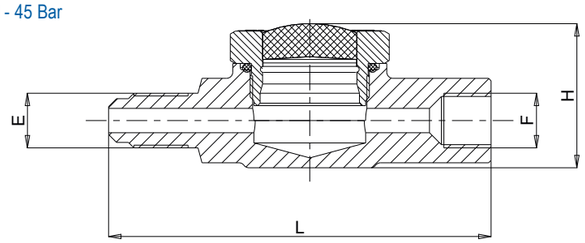
Metric Series		Inch Series		L (mm)	H (mm)
Product Code	ØD	Product Code	ØD		
601017337	Ø6	601017315	1/4"	147	29
601017338	Ø10	601017316	3/8"	147	29
601017339	Ø12	601017317	1/2"	161	35
601017318	Ø16 - 5/8"	601017318	5/8" - Ø16	161	35
601017340	Ø18	601017319	3/4"	171	35
601017341	Ø22	601017320	7/8"	175	45
601017342	Ø28	601017321	1 1/8"	175	45

Flare Male Thread x Flare Male Thread - 45 Bar



Product Code	Connection Thread	Tube Nominal Diameter	L (mm)	H (mm)
601017322	7/16" - 20 UNF	1/4" SAE	81	29
601017323	5/8" - 18 UNF	3/8" SAE	81	29
601017324	3/4" - 16 UNF	1/2" SAE	83	34
601017325	7/8" - 14 UNF	5/8" SAE	93	36
601017326	1 1/16" - 14 UNF	3/4" SAE	97	39

Flare Male Thread x Female Thread - 45 Bar



Product Code	Connection Thread	Tube Nominal Diameter	L (mm)	H (mm)
601017327	7/16" - 20 UNF	1/4" SAE	77	28
601017328	5/8" - 18 UNF	3/8" SAE	80	33
601017329	3/4" - 16 UNF	1/2" SAE	87	35
601017330	7/8" - 14 UNF	5/8" SAE	91	39

Service & Charging Valves

These kinds of valves are used in refrigerant systems tor isolating the sections in need of servicing and charging refrigerant into equipment. They provide easy shut-off, charging and discharging capabilities to the system.

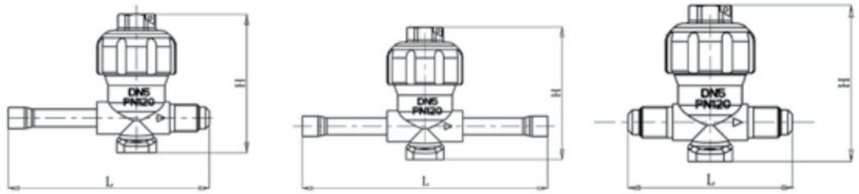
Leak tightness is ensured by double o-rings and fixing nut holds the spindle with safety in case of high pressure. 100% of the production is tested by Helium Mass Spectrometer.

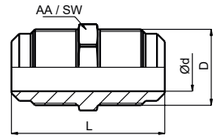
Technical Specifications

Max.Working Pressure	130 bar
Body Material	Forged Brass (EN 12420, EN 12165, CW 617N)
Field of Use	Suitable for all environmental friendly gases of refrigerant systems (except NH_3)

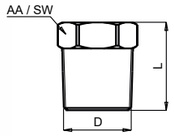
Nominal Diameter	Product Code		Description	L (mm)	H (mm)
	R404a / R134a	CO_2 / R744			
DN5	601006047	601006051	1/4" Tube x 7/16"-20UNF	81,5	56
	---	601006067	1/4" Tube x M12x1		
	601006048	601006068	1/4" Tube x 1/4" Tube	104	
	601006013	601006066	7/16"-20UNF x 7/16"-20UNF	59	
DN8	---	601006212	3/8" Tube x 5/8"-18UNF	90	64,5
	---	601006241	1/2" Tube x 5/8"-18UNF	96	

Please contact with the manufacturer for 130 bar series CO_2 service valves.

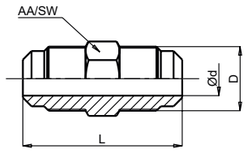




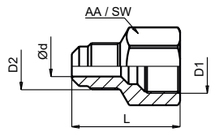
Product Code	D	Ød	L	AA/SW
610614096	1 1/4" - 12UNF	20	64	32



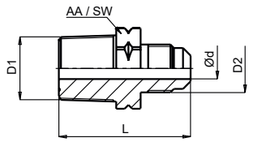
Product Code	D	L	AA/SW
610601287	1/8" - 27NPT	16,5	11
610601156	1/4" - 18NPT	19	14
610601157	3/8" - 18NPT	19	17
610614094	1/2" - 14NPT	27	22



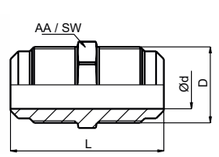
Product Code	D1	D2	Ød	L	AA/SW
610614095	1/2" - 14NPT	3/4" - 16UNF	10	46	24
610614102	3/4" - 14NPT	7/8" - 14UNF	13	47	27



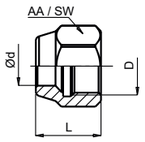
Product Code	D1	D2	Ød	L	AA/SW
610614098	3/4" - 16UNF	5/8" - 18UNF	7	37	24
610614099	5/8" - 18UNF	7/16" - 20UNF	4	36	22
610614100	3/4" - 16UNF	7/16" - 20UNF	4	36	24
610614101	7/8" - 14UNF	3/4" - 16UNF	10	43	27



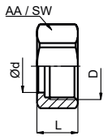
Product Code	D1	D2	Ød	L	AA/SW
610614097	1/2" - 14NPT	5/8" - 18UNF	7	63,5	24
610614189	1/4" - 18NPT	3/4" - 16UNF	10	39	22



Product Code	D	Ød	L	AA/SW
610614205	7/16" - 20 UNF (1/4" SAE)	4,9	33	11
610614206	5/8" - 18 UNF (3/8" SAE)	7	40	16
610614207	3/4" - 16 UNF (1/2" SAE)	10	47	19
610614208	7/8" - 14 UNF (5/8" SAE)	12,5	51	22
610614209	1 1/16" - 14 UNF (3/4" SAE)	15,9	61	27

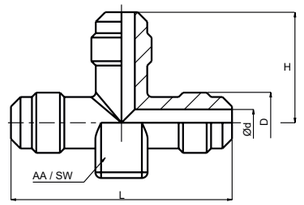


Product Code	D	Ød	L	AA/SW
610618086	3/4" - 16UNF	12,9	22	24
610618090	7/16" - 20UNF	6,55	16	17
610618091	7/8" - 14UNF	16,17	25	27
610618092	5/8" - 18UNF	9,7	18	22

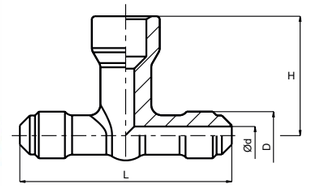


Product Code	D	Ød	L	AA/SW
610618084	G 3/4"	20,7	16	30
610618085	G 3/4"	20	13	30
610618089	G 1/2"	16	12,3	24
610618093	G 1"	21	13	36
610618094	G 1"	20,5	15	36

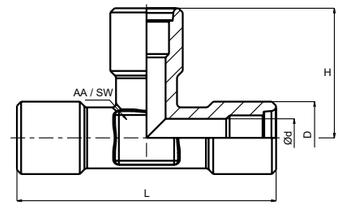
All described Brass Threaded Fittings in this section of our catalogues are produced by Brass Bar EN 12164-CW 614 N and hot forged brass EN 12165 - CW 617N. Below described Turning and Forging Threaded Fittings are exclude of the scope of Directive 97/23/EC as they are individually part of Piping Components . Threaded Brass Fittings such as Male x Female Reducing Unions, SAE Flare x NPT Elbows, SAE Flare x NPT Tee, SAE Flare Tee, SAE Flare x NPT Nippels, SAE Flare Unions are designed as connection parts of Refrigeration Systems .



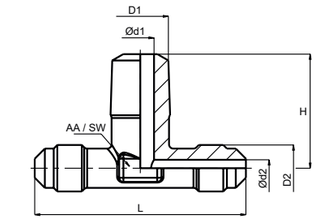
Product Code	D	Ød	L	H	AA/SW
610620142	5/8" - 18UNF	7	58	29	14
610620171	7/8" - 14UNF	13	80	40	19



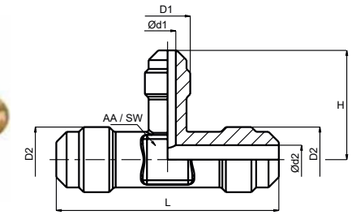
Product Code	D	Ød	L	H
610620145	7/16" - 20UNF	4	50	28



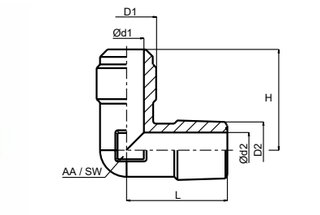
Product Code	D	Ød	L	H	AA/SW
610620154	3/4" - 16UNF	10	68	34	17
610620269	5/8" - 18UNF	7	58	29	14



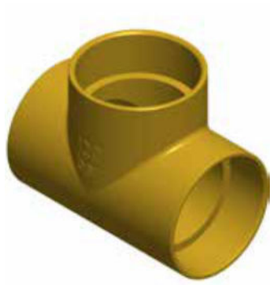
Product Code	D_1	D_2	$Ød_1$	$Ød_2$	L	H	AA/SW
610620147	1/8" - 27NPT	7/16" - 20UNF	4		48	21,5	10
610620153	1/4" - 18NPT	7/16" - 20UNF	6,5	4	50	27	14

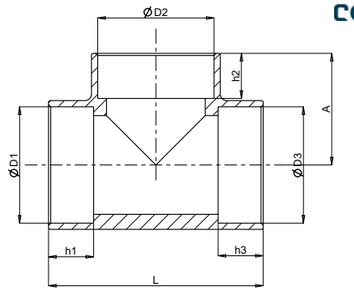


Product Code	D_1	D_2	$Ød_1$	$Ød_2$	L	H	AA/SW
610620140	7/16" - 20UNF	5/8" - 18UNF	4	7	54	26,5	14
610620141	7/16" - 20UNF		4		48	24	10
610620144			VG5	4	48	24	10
610620143	1/4" - 18NPT	7/16" - 20UNF	10		68	34	17
610620300	1/8" - 27NPT	7/16" - 20UNF	13	10	70	38	20
610620259	1/4" - 18NPT	7/16" - 20UNF	7	4	50	28	14
610620285	1/8" - 27NPT	7/16" - 20UNF	7	13	76	32	20
610620286	1/4" - 18NPT	7/16" - 20UNF	7	10	68	28	17

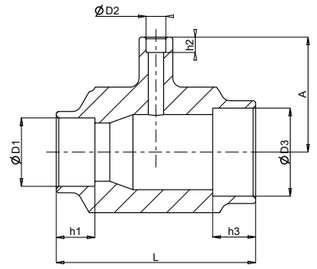


Product Code	D_1	D_2	$Ød_1$	$Ød_2$	L	H	AA/SW
610620146	5/8" - 18UNF	1/4" - 18NPT	7		28	28	14
610620298	3/4" - 16UNF	1/2" - 14NPT	10	13	37	37	22
610620296	7/8" - 14UNF	1/2" - 14NPT	13				

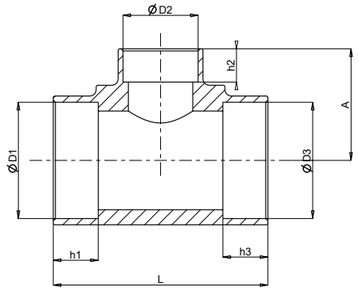




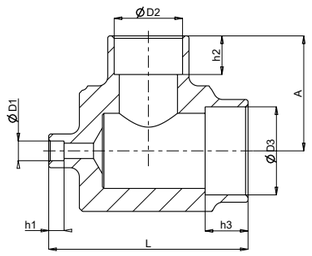
ColdCom Codes	Product Description	Connections (ØD)			Dimensions					Weight gr.
		$ØD_1$	$ØD_2$	$ØD_3$	h_1	h_2	h_3	A	L	
610620289	5/8" x 5/8 x 5/8"	$Ø16,05^{+0.1}$	$Ø16,05^{+0.1}$	$Ø16,05^{+0.1}$	12,6	12,6	12,6	27	54	160
610620260	3/4" x 3/4" x 3/4"	$Ø19,2^{+0.12}$	$Ø19,2^{+0.12}$	$Ø19,2^{+0.12}$	12,6	12,6	12,6	27	54	165
610620233	7/8" x 7/8" x 7/8"	$Ø22,3^{+0.12}$	$Ø22,3^{+0.12}$	$Ø22,3^{+0.12}$	12,6	12,6	12,6	27	54	115
610620241	1 1/8" x 1 1/8" x 1 1/8"	$Ø28,71^{+0.12}$	$Ø28,71^{+0.12}$	$Ø28,71^{+0.12}$	14	14	14	37,5	65	365
610620234	1 3/8" x 1 3/8" x 1 3/8"	$Ø35,02^{+0.14}$	$Ø35,02^{+0.14}$	$Ø35,02^{+0.14}$	15,5	15,5	15,5	37,5	65	250
610620261	1 5/8" x 1 5/8" x 1 5/8"	$Ø41,36^{+0.14}$	$Ø41,36^{+0.14}$	$Ø41,36^{+0.14}$	18,5	18,5	18,5	42,5	80	450
610620290	2 1/8" x 2 1/8" x 2 1/8"	$Ø54,2^{+0,15}$	$Ø54,2^{+0,15}$	$Ø54,2^{+0,15}$	21	21	21	52	100	815



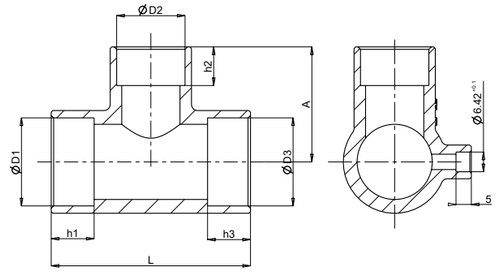
ColdCom Codes	Product Description	Connections (ØD)			Dimensions					Weight gr.
		$ØD_1$	$ØD_2$	$ØD_3$	h_1	h_2	h_3	A	L	
610620291	5/8" x 1/4" x 5/8"	$Ø16,05^{+0.1}$	$Ø6,42^{+0.1}$	$Ø16,05^{+0.1}$	12,6	5	12,6	27	54	170
610620262	3/4" x 1/4" x 3/4"	$Ø19,2^{+0.12}$	$Ø6,42^{+0.1}$	$Ø19,2^{+0.12}$	12,6	5	12,6	27	54	165
610620236	7/8" x 1/4" x 7/8"	$Ø22,3^{+0.12}$	$Ø6,42^{+0.1}$	$Ø22,3^{+0.12}$	12,6	5	12,6	27	54	130
610620252	7/8" x 1/4" x 1 1/8"	$Ø22,3^{+0.12}$	$Ø6,42^{+0.1}$	$Ø28,71^{+0.12}$	12,6	5	14	37,5	65	386
610620239	1 1/8" x 1/4" x 1 1/8"	$Ø28,71^{+0.12}$	$Ø6,42^{+0.1}$	$Ø28,71^{+0.12}$	14	5	14	37,5	65	365
610620240	1 3/8" x 1/4" x 1 3/8"	$Ø35,02^{+0.14}$	$Ø6,42^{+0.1}$	$Ø35,02^{+0.14}$	15,5	5	15,5	37,5	65	270
610620263	1 5/8" x 1/4" x 1 5/8"	$Ø41,36^{+0.14}$	$Ø6,42^{+0.1}$	$Ø41,36^{+0.14}$	18,5	5	18,5	42,5	80	520
610620292	2 1/8" x 1/4" x 2 1/8"	$Ø54,2^{+0,15}$	$Ø6,42^{+0.1}$	$Ø54,2^{+0,15}$	21	5	21	52	100	986



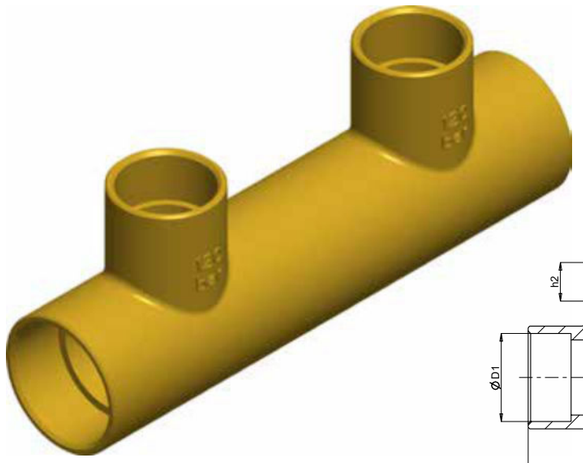
ColdCom Codes	Product Description	Connections (ØD)			Dimensions					Weight gr.
		$ØD_1$	$ØD_2$	$ØD_3$	h_1	h_2	h_3	A	L	
610620293	5/8" x 1/2" x 5/8"	$Ø16,05^{+0.1}$	$Ø12,85^{+0,1}$	$Ø16,05^{+0.1}$	12,6	10	12,6	27	54	170
610620264	3/4" x 5/8" x 3/4"	$Ø19,2^{+0.12}$	$Ø16,05^{+0.1}$	$Ø19,2^{+0.12}$	12,6	12,6	12,6	27	54	178
610620287	7/8" x 3/8" x 7/8"	$Ø22,3^{+0.12}$	$Ø9,65^{+0,1}$	$Ø22,3^{+0.12}$	12,6	7	12,6	27	54	130
610620284	7/8" x 5/8" x 7/8"	$Ø22,3^{+0.12}$	$Ø16,05^{+0.1}$	$Ø22,3^{+0.12}$	12,6	12,6	12,6	27	54	145
610620235	7/8" x 3/4" x 7/8"	$Ø22,3^{+0.12}$	$Ø19,2^{+0.12}$	$Ø22,3^{+0.12}$	12,6	12,6	12,6	27	54	130
610620242	1 1/8" x 3/4" x 1 1/8"	$Ø28,71^{+0.12}$	$Ø19,2^{+0.12}$	$Ø28,71^{+0.12}$	14	12,6	14	37,5	60	342
610620245	1 1/8" x 7/8" x 1 1/8"	$Ø28,71^{+0.12}$	$Ø22,3^{+0.12}$	$Ø28,71^{+0.12}$	14	12,6	14	37,5	65	357
610620238	1 3/8" x 3/4" x 1 3/8"	$Ø35,02^{+0.14}$	$Ø19,2^{+0.12}$	$Ø35,02^{+0.14}$	15,5	12,6	15,5	37,5	65	288
610620265	1 3/8" x 7/8" x 1 3/8"	$Ø35,02^{+0.14}$	$Ø22,3^{+0.12}$	$Ø35,02^{+0.14}$	15,5	12,6	15,5	37,5	65	285
610620266	1 3/8" x 1 1/8" x 1 3/8"	$Ø35,02^{+0.14}$	$Ø28,71^{+0.12}$	$Ø35,02^{+0.14}$	15,5	14	15,5	37,5	65	272
610620267	1 5/8" x 1 1/8" x 1 5/8"	$Ø41,36^{+0.14}$	$Ø28,71^{+0.12}$	$Ø41,36^{+0.14}$	18,5	14	18,5	42,5	80	500
610620268	1 5/8" x 1 3/8" x 1 5/8"	$Ø41,36^{+0.14}$	$Ø35,02^{+0.14}$	$Ø41,36^{+0.14}$	18,5	15,5	18,5	42,5	80	475
610620294	2 1/8" x 1 3/8" x 2 1/8"	$Ø54,2^{+0,15}$	$Ø35,02^{+0.14}$	$Ø54,2^{+0,15}$	21	15,5	21	52	100	942
610620295	2 1/8" x 1 5/8" x 2 1/8"	$Ø54,2^{+0,15}$	$Ø41,36^{+0.14}$	$Ø54,2^{+0,15}$	21	18,5	21	52	100	918

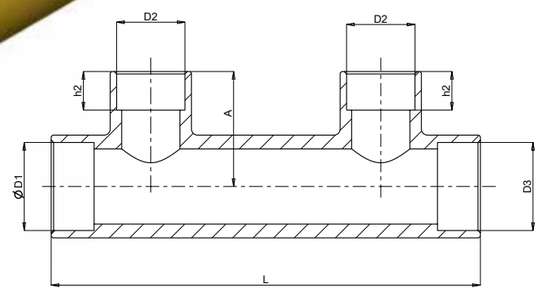


ColdCom Codes	Product Description	Connections (ØD)			Dimensions					Weight gr.
		$ØD_1$	$ØD_2$	$ØD_3$	h_1	h_2	h_3	A	L	
610620253	1/4" x 7/8" x 1 1/8"	$Ø6,42^{+0.1}$	$Ø22,3^{+0.12}$	$Ø28,71^{+0.12}$	5	12,6	14	37,5	65	380
610620254	1/4" x 1 1/8" x 7/8"	$Ø6,42^{+0.1}$	$Ø28,71^{+0.12}$	$Ø22,3^{+0.12}$	5	14	12,6	37,5	65	400



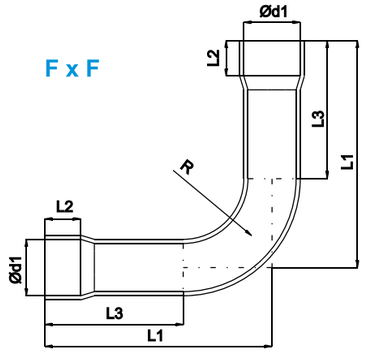
ColdCom Codes	Product Description	Connections (ØD)			Dimensions					Weight gr.
		$ØD_1$	$ØD_2$	$ØD_3$	h_1	h_2	h_3	A	L	
610620256	1 1/8" x 7/8" x 1 1/8" + 1/4"	$Ø28,71^{+0.12}$	$Ø22,3^{+0.12}$	$Ø28,71^{+0.12}$	14	12,6	14	37,5	65	216





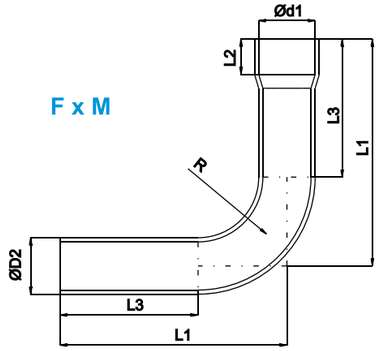
Coldcom Codes	Product Description	Connections (ØD)			Dimensions					Weight gr.
		$ØD_1$	$ØD_2$	$ØD_3$	h_1	h_2	h_3	A	L	
610620255	1 1/8" x 7/8" x 7/8"x 1 1/8"	$Ø28,71^{+0.12}$	$Ø22,3^{+0.12}$ (x2)	$Ø28,71^{+0.12}$	14	12,6	14	37,5	140	500
610620272	7/8" x 3/4" x 3/4" x 7/8"	$Ø22,3^{+0.12}$	$Ø19,2^{+0.12}$ (x2)	$Ø22,3^{+0.12}$	12,6	12,6	12,6	37,5	140	680
610620273	1 3/8" x 3/4" x 3/4" x 1 3/8"	$Ø35,02^{+0.14}$	$Ø19,2^{+0.12}$ (x2)	$Ø35,02^{+0.14}$	15,5	12,6	15,5	37,5	140	620
610620257	1 1/8" x 3/4" x 3/4" x 1 1/8"	$Ø28,71^{+0.12}$	$Ø19,2^{+0.12}$ (x2)	$Ø28,71^{+0.12}$	14	12,6	14	37,5	140	535

F x F



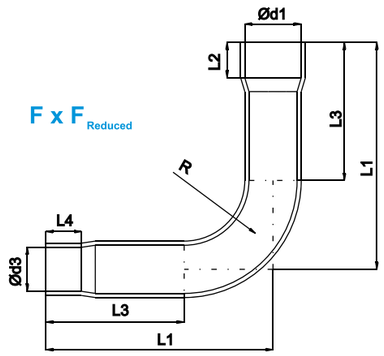
Description	Product Code	Tube	$Ød_1$	L_1	L_2	L_3	R
3/4"	612502166	19,06 x 1,30	19,20	80	14	50	30
7/8"	612502122	22,23 x 1,50	22,35	95	17	60	35
1 1/8"	612502123	28,57 x 1,90	28,75	115	20	70	45
1 3/8"	612502124	34,92 x 2,30	35,09	135	25	62	73
1 5/8"	612502148	41,27 x 2,70	41,45	170	29	90	80
2 1/8"	612502192	53,97 x 3,55	54,20	200	34	100	100

F x M



Description	Product Code	Tube	$Ød_1$	$ØD_2$	L_1	L_2	L_3	R
3/4"	612502167	19,06 x 1,30	19,20	3/4"	80	14	50	30
7/8"	612502125	22,23 x 1,50	22,35	7/8"	95	17	60	35
1 1/8"	612502126	28,57 x 1,90	28,75	1 1/8"	115	20	70	45
1 3/8"	612502127	34,92 x 2,30	35,09	1 3/8"	135	25	62	73
1 5/8"	612502149	41,27 x 2,70	41,45	1 5/8"	170	29	90	80
2 1/8"	612502193	53,97 x 3,55	54,20	2 1/8"	200	34	100	100

F x F Reduced



Description	Product Code	Tube	$Ød_1$	$Ød_3$	L_1	L_2	L_4	L_3	R
3/4"	612502168	19,06 x 1,30	19,20	16,05 (5/8")	80	14	14	50	30
7/8"	612502128	22,23 x 1,50	22,35	19,20 (3/4")	95	17	14	60	35
1 1/8"	612502129	28,57 x 1,90	28,75	22,35 (7/8")	115	20	16	70	45
1 3/8"	612502130	34,92 x 2,30	35,09	28,75 (1 1/8")	135	25	18	62	73
1 5/8"	612502150	41,27 x 2,70	41,45	35,09 (1 3/8")	170	29	22	90	80
2 1/8"	612502194	53,97 x 3,55	54,20	41,35 (1 5/8")	200	34	24	100	100

Copper Fittings- Straight 120 Bar

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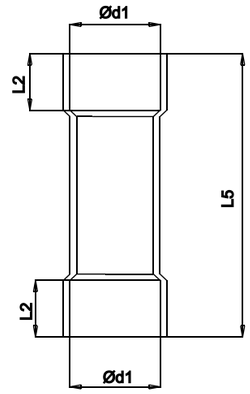
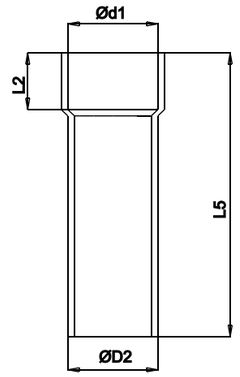
F x F



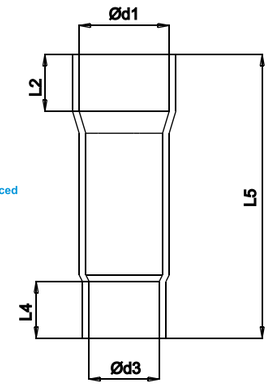
Description	Product Code	Tube	Ød$_1$	L$_2$	L$_5$
3/4"	612502169	19,06 x 1,30	19,20	14	70
7/8"	612502131	22,23 x 1,50	22,35	17	80
1 1/8"	612502132	28,57 x 1,90	28,75	20	90
1 3/8"	612502133	34,92 x 2,30	35,09	25	100
1 5/8"	612502151	41,27 x 2,70	41,45	29	120
2 1/8"	612502195	53,97 x 3,55	54,20	34	140

F x M



Description	Product Code	Tube	Ød$_1$	ØD$_2$	L$_2$	L$_5$
3/4"	612502170	19,06 x 1,30	19,20	3/4"	14	70
7/8"	612502134	22,23 x 1,50	22,35	7/8"	17	80
1 1/8"	612502135	28,57 x 1,90	28,75	1 1/8"	20	90
1 3/8"	612502136	34,92 x 2,30	35,09	1 3/8"	25	100
1 5/8"	612502152	41,27 x 2,70	41,45	1 5/8"	29	120
2 1/8"	612502196	53,97 x 3,55	54,20	2 1/8"	34	140

F x F Reduced



Description	Product Code	Tube	Ød$_1$	Ød$_3$	L$_2$	L$_4$	L$_5$
3/4"	612502171	19,06 x 1,30	19,20	16,05 (5/8")	14	14	70
7/8"	612502137	22,23 x 1,50	22,35	19,20 (3/4")	17	14	80
1 1/8"	612502138	28,57 x 1,90	28,75	22,35 (7/8")	20	16	90
1 3/8"	612502139	34,92 x 2,30	35,09	28,75 (1 1/8")	25	18	100
1 5/8"	612502153	41,27 x 2,70	41,45	35,09 (1 3/8")	29	22	120
2 1/8"	612502197	53,97 x 3,55	54,20	41,45 (1 5/8")	34	24	140

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The products are branded with the logo of our manufacturing side E.C.A.

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