



APPROVED APPLICATIONS AND OPERATING PARAMETERS

- Potable Water
- Chilled Water
- Hydronic Heating
- Vacuum
- Non-Medical Gases
- Fire Services
- Low Pressure Steam

FITTING	O-RING MATERIAL	PRESSURE RATING KPA	TEMP. °C
WATER	EPDM	1600	120
GAS	HNBR	1600	100
HIGH TEMPERATURE	FKM	1600	200

O-RING SELECTION CHART

PRESSURE (KPA) TEMP. (°C) WATER EPDM HT FKM GAS HNBR

WATER SUPPLY

HOT AND COLD POTABLE WATER	AUSTRALIAN WATERMARK APPROVED, N.B. WATERMARK CERTIFICATION FOR ALL PLUMBING PRODUCTS IS RESTRICTED 1400KPA AT 95°C	1600	120	●	●
SOLAR SYSTEMS (FLAT-PANEL COLLECTORS)	SYSTEM CAPABLE OF HANDLING 200°C AS A PEAK TEMPERATURE BUT NOT SUSTAINED TEMPERATURE OVER A PERIOD OF TIME.	1600	120	●	●
	SYSTEM OPERATES AT A SUSTAINED TEMPERATURE OF 200°	1600	200		●
CHILLED WATER (CLOSED SYSTEM)	CONTACT FORZA GLOBAL FOR OPEN SYSTEMS (INHIBITORS)	1600	≥-25	●	●
SPRING WATER	CONTACT FORZA GLOBAL (POSSIBLE WITH DRINKING WATER)	1600	120	●	●
FIRE SERVICES-FIRE SPRINKLER & HOSE REEL	CAPABLE OF HANDLING THE REQUIRED TEST PRESSURE OF 1700 KPA OR 1.5 TIMES THE DESIGN PRESSURE AS SPECIFIED BY AS2419.1	1600	120	●	●
STEAM	LOW PRESSURE STEAM EQUIPMENT	≤100	120	●	●
PUMP CIRCULATED HW SYSTEMS	COMPLIANT WITH EN 12828			●	●

ANTI-FREEZE / CORROSION PROTECTION / INHIBITORS

PRODUCT		MANUFACTURER				
ANTI-FREEZE COOLING CONCENTRATION 50%	ETHYLENE GLYCOL	VARIOUS	1600	-25 TO 120	●	●
	PROPYLENE GLYCOL	VARIOUS	1600	-25 TO 120	●	●
	ANTIFROGEN N	CLARIANT	1600	-25 TO 120	●	●
	ANTIFROGEN L	CLARIANT	1600	-25 TO 120	●	●
	TYFOCOR	TYFOROP-CHEMIE	1600	-25 TO 120	●	●
	TYFOCOR L	TYFOROP-CHEMIE	1600	-25 TO 120	●	●

OTHER MEDIA

ETHANOL		1600	25	●	●
ACETONE	LIQUID	500	-10 TO 40	●	●
CONDENSATE	STEAM EQUIPMENT	1600	110	●	●
LEAKAGE INDICATOR LIQUID FOR OIL TANKS	BRENTAG R 36522	100	-20 TO 30	●	●

NATURAL GAS/ LPG

NATURAL GAS	AUSTRALIAN GAS APPROVED, N.B. AS/NZS5601 PERMITS USE UP TO 200 KPA FOR ALL SYSTEMS.	200	100		●
LPG	AUSTRALIAN GAS APPROVED, N.B. AS/NZS5601 PERMITS USE UP TO 200 KPA FOR ALL SYSTEMS	200	100		●

OILS, COOLING MATERIALS AND LUBRICANTS

ENGINE OILS AND LUBRICANTS (PETROLEUM-BASED SAE)	CONSULTATION REQUIRED	1000	70		●
HEATING OIL, DIESEL IN ACC. WITH EN590		500	40		●

OTHER GAS

OXYGEN	OIL AND FAT FREE	1200	60	●	●	●
CARBOGEN	CO ₂ + O ₂ DRY	1600	70	●		●
ARGON	FOR WELDING	1600	AMBIENT	●		●
COMPRESSED AIR	OIL CONCENTRATION ≤25 MG/M ³	1600	70	●	●	
	OIL CONCENTRATION ≥25 MG/M ³	1600	70			●
CARBON DIOXIDE – CO ₂	DRY	1600	70	●	●	●
CARBON MONOXIDE – CO	STAINLESS STEEL COMPONENTS NOT PERMITTED	1600	70	●	●	●
NITROGEN – N ₂	AFTER THE EVAPORATOR	1600	70	●	●	●
HYDROGEN – H ₂	WILL LEAK AT <0.001 CM ³ /MINUTE	500	70	●	●	●
FORMING GAS/WELDING GAS	80% ARGON / 20% CO ₂	1600	70	●	●	●
LOW VACUUM	P _{ABS} = 1MBAR			●	●	●
HELIUM – HE ₂		1600	70	●	●	●
XENON		1600	70	●	●	●
NEON		1600	70	●	●	●
KRYPTON		1600	70	●	●	●

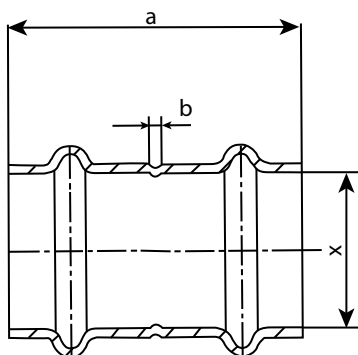
NOT SUITABLE FOR: Refrigeration and Air Conditioning Applications, Acetylene, Urea Solution, Methanol, Glycerine Triacetate, Coolant Inhibitor, Sodium Hydroxide, Amoniac (gaseous), Medical Gas Applications.

EPDM - Ethylene Propylene Diene Monomer

FKM - Fluorocarbon Rubber

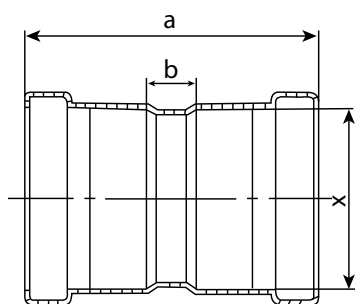
HNBR - Hydrogenated Nitrile Butadiene Rubber

COPPER PRESS FITTINGS LIST



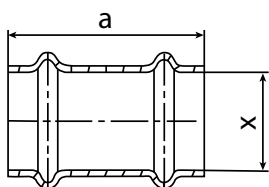
COUPLING

WATER CODE	GAS CODE	HT CODE	a	b	x
OCPWC15	OCPGC15	OCPHTC15	38	2	15
OCPWC20	OCPGC20	OCPHTC20	47	2	20
OCPWC25	OCPGC25		48	2	25
OCPWC32	OCPGC32		54	3	32
OCPWC40	OCPGC40		66	3	40
OCPWC50	OCPGC50		82	3	50



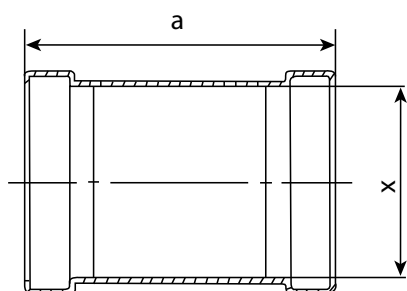
COUPLING

WATER CODE	GAS CODE	a	b	x
OCPWC65	OCPGC65	108	20	65
OCPWC80	OCPGC80	122	20	80
OCPWC100	OCPGC100	148	28	100



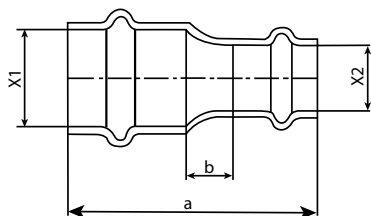
SLIP COUPLING

WATER CODE	GAS CODE	HT CODE	a	x
OCPWSLC15	OCPGSLC15	OCPHTSLC15	38	15
OCPWSLC20	OCPGSLC20	OCPHTSLC20	50	20
OCPWSLC25	OCPGSLC25		50	25
OCPWSLC32	OCPGSLC32		58	32
OCPWSLC40	OCPGSLC40		66	40
OCPWSLC50	OCPGSLC50		82	50



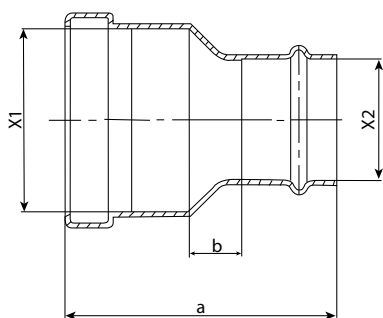
SLIP COUPLING

WATER CODE	GAS CODE	HT CODE	a	x
OCPWSLC65	OCPGSLC65		108	65
OCPWSLC80	OCPGSLC80		122	80
OCPWSLC100	OCPGSLC100		148	100



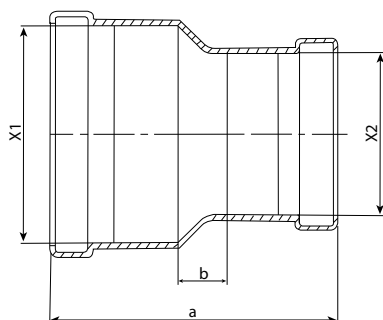
REDUCING COUPLING

WATER CODE	GAS CODE	a	b	X1	X2
OCPWRC2015	OCPGRC2015	48.5	9	20	15
OCPWRC2515	OCPGRC2515	55	15.5	25	15
OCPWRC2520	OCPGRC2520	54	8	25	20
OCPWRC3215	OCPGRC3215	60	16.5	32	15
OCPWRC3220	OCPGRC3220	63	14	32	20
OCPWRC3225	OCPGRC3225	58	9	32	25
OCPWRC4020	OCPGRC4020	71	16.5	40	20
OCPWRC4025	OCPGRC4025	68	13.5	40	25
OCPWRC4032	OCPGRC4032	67	9	40	32
OCPWRC5020	OCPGRC5020	87	24	50	20
OCPWRC5025	OCPGRC5025	84	21	50	25
OCPWRC5032	OCPGRC5032	83	17	50	32
OCPWRC5040	OCPGRC5040	85	13	50	40



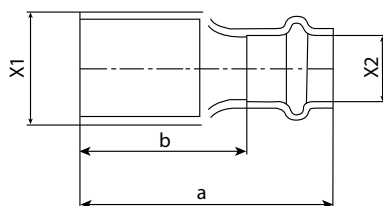
REDUCING COUPLING

WATER CODE	GAS CODE	a	b	X1	X2
OCPWRC6532	OCPGRC6532	94	25	65	32
OCPWRC6540	OCPGRC6540	97	22	65	40
OCPWRC6550	OCPGRC6550	100	17	65	50
OCPWRC8040	OCPGRC8040	112.5	28.5	80	40
OCPWRC8050	OCPGRC8050	114	22	80	50
OCPWRC10050	OCPGRC10050	135	35	100	50



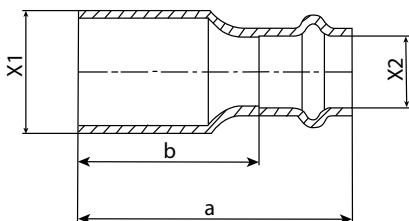
REDUCING COUPLING

WATER CODE	GAS CODE	a	b	X1	X2
OCPWRC8065	OCPGRC8065	110	15	80	65
OCPWRC10065	OCPGRC10065	131	28	100	65
OCPWRC10080	OCPGRC10080	135	23	100	80



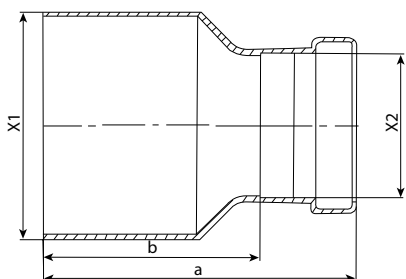
REDUCER

WATER CODE	GAS CODE	a	b	X1	X2
OCPWRMF2015	OCPGRMF2015	50	33.5	20	15
OCPWRMF2515	OCPGRMF2515	55	38.5	25	15
OCPWRMF2520	OCPGRMF2520	55	32	25	20
OCPWRMF3220	OCPGRMF3220	64	41	32	20
OCPWRMF3225	OCPGRMF3225	62	39	32	25
OCPWRMF4020	OCPGRMF4020	73	50	40	20
OCPWRMF4025	OCPGRMF4025	71	48	40	25
OCPWRMF4032	OCPGRMF4032	69	42	40	32
OCPWRMF5025	OCPGRMF5025	85	62	50	25
OCPWRMF5032	OCPGRMF5032	86	60	50	32
OCPWRMF5040	OCPGRMF5040	88	56	50	40



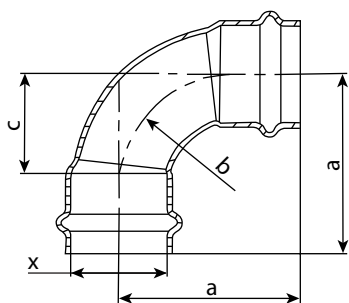
REDUCER

WATER CODE	GAS CODE	a	b	X1	X2
OCPWRMF6540	OCPGRMF6540	102	70	65	40
OCPWRMF6550	OCPGRMF6550	104	64	65	50
OCPWRMF8040	OCPGRMF8040	120	88	80	40
OCPWRMF8050	OCPGRMF8050	120	80	80	50
OCPWRMF10050	OCPGRMF10050	142	102	100	50



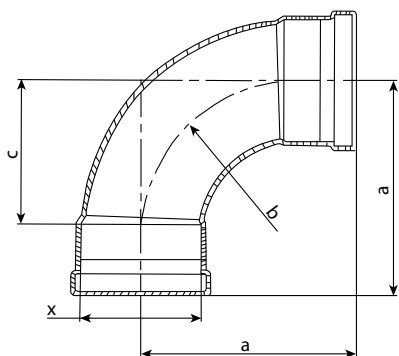
REDUCER

WATER CODE	GAS CODE	a	b	X1	X2
OCPWRMF8065	OCPGRMF8065	118	75	80	65
OCPWRMF10060	OCPGRMF10065	140	97	100	65
OCPWRMF10080	OCPGRMF10080	144	92	100	80



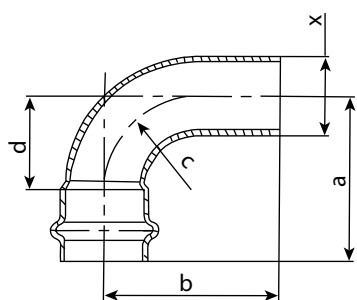
ELBOW

WATER CODE	GAS CODE	HT CODE	a	b	c	x
OCPWE15	OCPGE15	OCPTHTE15	30	15.2	13.5	15
OCPWE20	OCPGE20	OCPTHTE20	42	22.8	19	20
OCPWE25	OCPGE25		53.5	30.5	30.5	25
OCPWE32	OCPGE32		59	38.2	33	32
OCPWE40	OCPGE40		76	45.7	44.5	40
OCPWE50	OCPGE50		97	61	57	50



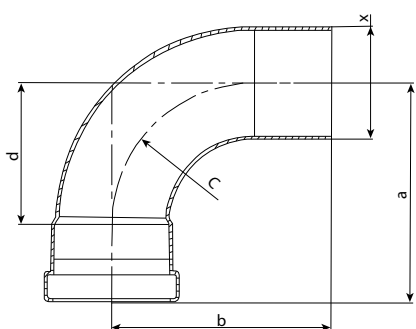
ELBOW

WATER CODE	GAS CODE	a	b	c	x
OCPWE65	OCPGE65	121	76.4	76.4	65
OCPWE80	OCPGE80	147	95.1	95	80
OCPWE100	OCPGE100	180	132.1	120	100



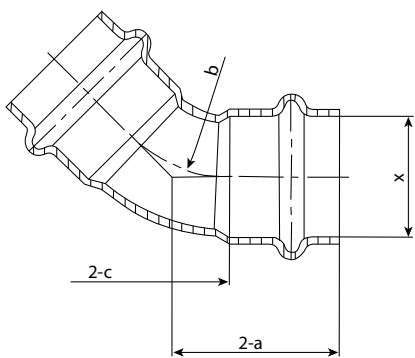
ELBOW M + F

WATER CODE	GAS CODE	a	b	c	d	x
OCPWEMF15	OCPGEMF15	30	36	15.2	13.5	15
OCPWEMF20	OCPGEMF20	42	48	22.8	19	20
OCPWEMF25	OCPGEMF25	53.5	56.5	30.5	30.5	25
OCPWEMF32	OCPGEMF32	64.2	66.2	38.2	38.2	32
OCPWEMF40	OCPGEMF40	76	79.7	45.7	44.5	40
OCPWEMF50	OCPGEMF50	97	103	61	57	50



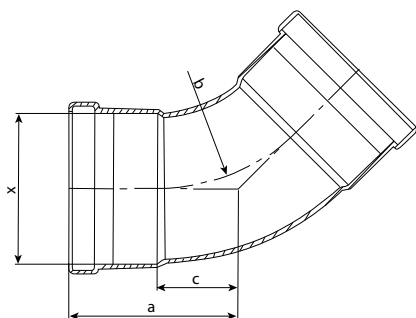
ELBOW M + F

WATER CODE	GAS CODE	a	b	c	d	x
OCPWEMF65	OCPGEMF65	121	126.2	76.4	76.4	65
OCPWEMF80	OCPGEMF80	147	155.1	95.1	95	80
OCPWEMF100	OCPGEMF100	180	196.5	132.1	120	100



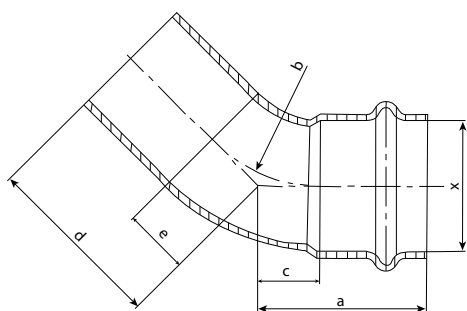
45° ELBOW

WATER CODE	GAS CODE	a	b	c	x
OCPW45E15	OCPG45E15	24	15.2	7.5	15
OCPW45E20	OCPG45E20	31.4	22.8	8.4	20
OCPW45E25	OCPG45E25	35	30.5	12	25
OCPW45E32	OCPG45E32	31	38.2	15	32
OCPW45E40	OCPG45E40	50.4	45.7	18.9	40
OCPW45E50	OCPG45E50	65.3	61	25.3	50



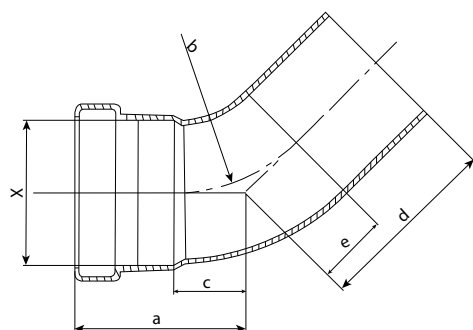
45° ELBOW

WATER CODE	GAS CODE	a	b	c	x
OCPW45E65	OCPG45E65	75.5	76.4	31.6	65
OCPW45E80	OCPG45E80	89.2	95.1	37.2	80
OCPW45E100	OCPG45E100	114.7	132.1	54.7	100



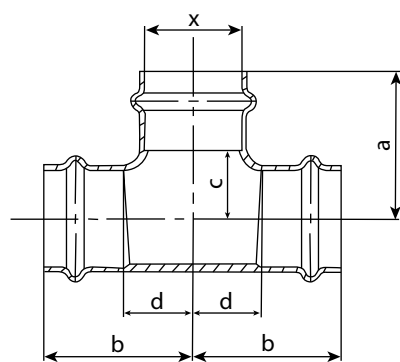
45° ELBOW M + F

WATER CODE	GAS CODE	a	b	c	d	e	x
OCPW45EMF15	OCPG45EMF15	24	15.2	7.5	27.3	6.3	15
OCPW45EMF20	OCPG45EMF20	31.4	22.8	8.4	34.5	9.5	20
OCPW45EMF25	OCPG45EMF25	35	30.5	12	37.6	12.6	25
OCPW45EMF32	OCPG45EMF32	31	38.2	15	43.8	15.8	32
OCPW45EMF40	OCPG45EMF40	50.4	45.7	18.9	52.4	18.9	40
OCPW45EMF50	OCPG45EMF50	65.3	61	25.3	67.3	25.3	50



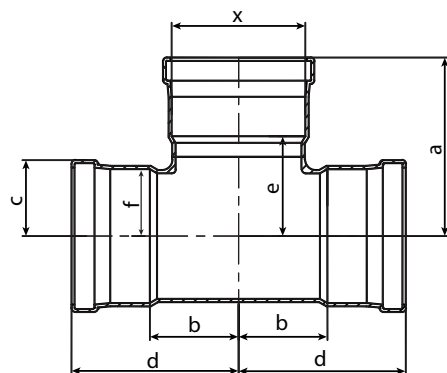
45° ELBOW M + F

WATER CODE	GAS CODE	a	b	c	d	e	x
OCPW45EMF65	OCPG45EMF65	75.5	76.2	31.6	81.6	31.6	65
OCPW45EMF80	OCPG45EMF80	89.2	95.1	37.2	99.4	39.4	80
OCPW45EMF100	OCPG45EMF100	114.7	132.1	54.7	124.7	54.7	100



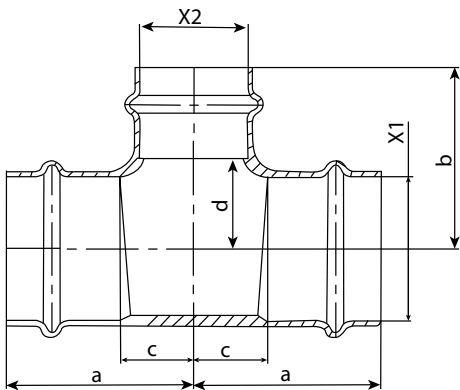
EQUAL TEE

WATER CODE	GAS CODE	HT CODE	a	b	c	d	x
OCP WET15	OCPGET15	OCPHTTET15	28	31	11.5	14.5	15
OCP WET20	OCPGET20	OCPHTTET20	36	39	13	15.1	20
OCP WET25	OCPGET25		41.5	43	18.5	19.1	25
OCPW ET32	OCPGET32		48.5	48.5	22.5	22.5	32
OCPWET40	OCPGET40		57	57	25.5	25.5	40
OCPWET50	OCPGET50		71	71	31	31	50



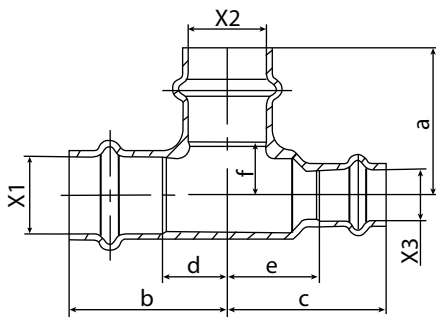
EQUAL TEE LARGE

WATER CODE	GAS CODE	a	b	c	d	e	f	x
OCPWET65	OCPGET65	97.8	44.4	39.1	89	54.8	34.3	65
OCPWET80	OCPGET80	112	48	45.1	100	60.8	40.5	80
OCPWET100	OCPGET100	136.2	68	58	128	76.2	53.7	100



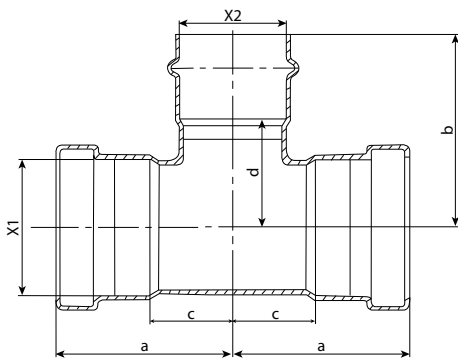
REDUCING TEE

WATER CODE	GAS CODE	a	b	c	d	x1	x2
OCPWRT202015	OCPGRT202015	36.5	32	13.5	15.5	20	15
OCPWRT252515	OCPGRT252515	36.5	35.5	13.5	19	25	15
OCPWRT252520	OCPGRT252520	39.5	40.5	16.5	17.5	25	20
OCPWRT323215	OCPGRT323215	40	39.5	14	23	32	15
OCPWRT323220	OCPGRT323220	43.5	43.5	17.5	20.5	32	20
OCPWRT323225	OCPGRT323225	48.5	45.5	22.5	22.5	32	25
OCPWRT404020	OCPGRT404020	46.5	47.5	14.5	24.5	40	20
OCPWRT404025	OCPGRT404025	51.5	50.5	19.5	27.5	40	25
OCPWRT404032	OCPGRT404032	55	52	23.5	26	40	32
OCPWRT505020	OCPGRT505020	57	56	17	33	50	20
OCPWRT505025	OCPGRT505025	59.5	57.5	19.5	34.5	50	25
OCPWRT505032	OCPGRT505032	62.5	59.5	22.5	33.5	50	32
OCPWRT505040	OCPGRT505040	66	64	26	32	50	40



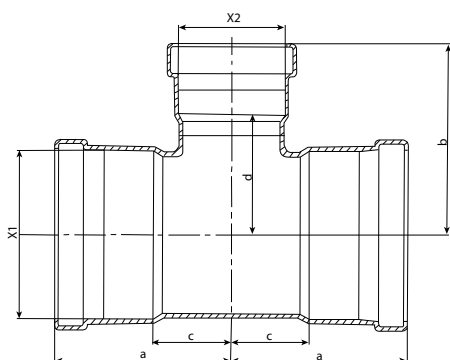
REDUCING TEE

WATER CODE	GAS CODE	a	b	c	d	e	f	x1	x2	x3
OCPWRT201520	OCPGRT201520	36	39	39	16	22.5	13	20	20	15
OCPWRT201515	OCPGRT201515	32	36.5	36.3	13.5	19.8	15.5	20	15	15



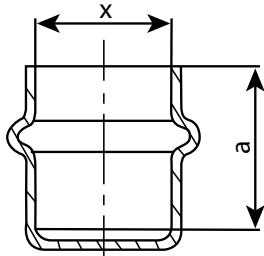
REDUCING TEE

WATER CODE	GAS CODE	a	b	c	d	x1	x2
OCPWRT656550	OCPGRT656550	84	92	41	52	65	50
OCPWRT808050	OCPGRT808050	89	98	37	58	80	50
OCPWRT10010040	OCPGRT10010040	96	102	36	70	100	40
OCPWRT10010050	OCPGRT10010050	102.5	111	42.5	71	100	50



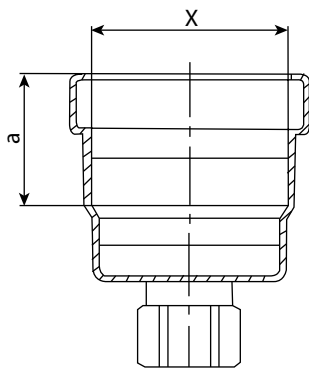
REDUCING TEE

WATER CODE	GAS CODE	a	b	c	d	x1	x2
OCPWRT808065	OCPGRT808065	93	104	41	61	80	65
OCPWRT10010065	OCPGRT10010065	107	117	47	75	100	65
OCPWRT10010080	OCPGRT10010080	114	126	54	74	100	80



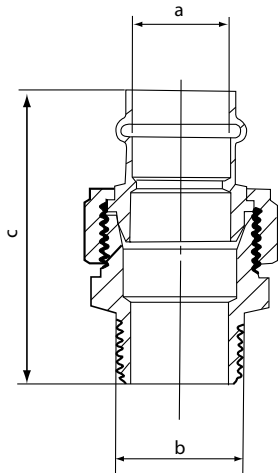
END CAP

WATER CODE	GAS CODE	HT CODE	a	x
OCPWEC15	OCPGEC15	OCPHTEC15	16.5	15
OCPWEC20	OCPGEC20	OCPHTEC20	23	20
OCPWEC25	OCPGEC25		23	25
OCPWEC32	OCPGEC32		26	32
OCPWEC40	OCPGEC40		32	40
OCPWEC50	OCPGEC50		40	50



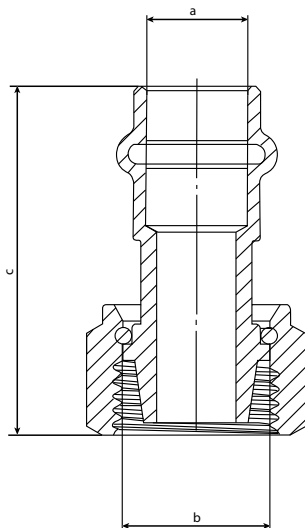
END CAP

WATER CODE	GAS CODE	a	x
OCPWEC65	OCPGEC65	43	65
OCPWEC80	OCPGEC80	52	80
OCPWEC100	OCPGEC100	60	100



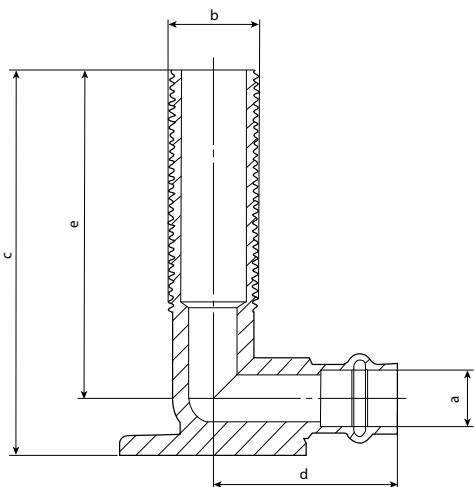
SWIVEL UNION MALE

WATER CODE	GAS CODE	a	b	c
OCPWMSU2525	OCPGMSU2525	25.8	1"	78
OCPWMSU3232	OCPGMSU3232	32.2	1-1/4"	80
OCPWMSU4040	OCPGMSU4040	38.5	1-1/2"	88.5
OCPWMSU5050	OCPGMSU5050	51.3	2"	104



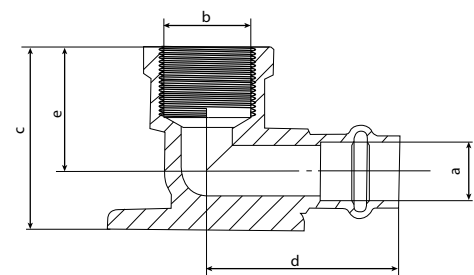
SWIVEL NUT CONNECTOR

WATER CODE	GAS CODE	a	b	c
OCPWSNF1515	OCPGSNF1515	12.85	G1/2-14	44
OCPWSNF2020	OCPGSNF2020	19.25	G3/4-14	53.6



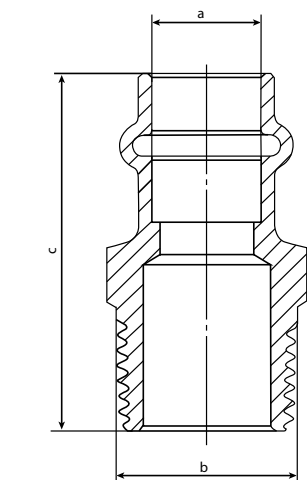
MALE LUGGED ELBOW

WATER CODE	GAS CODE	a	b	c	d	e
OCPWWM151575	OCPGWM151575	12.85	1/2"	88	42	75
OCPWWM151590	OCPGWM151590	12.85	1/2"	103	42	90



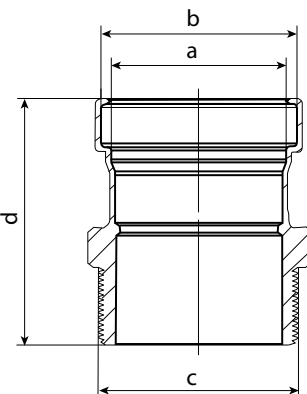
FEMALE LUGGED ELBOW

WATER CODE	GAS CODE	a	b	c	d	e
OCPWWF1515	OCPWWF1515	12.85	1/2"	40	42	27
OCPWWF2020	OCPGWF2020	19.25	3/4"	43.5	46	29.5
OCPWWF2015	OCPGWF2015	19.25	1/2"	41	46	27



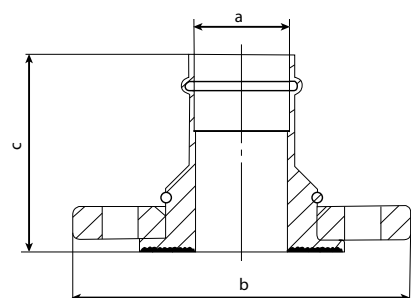
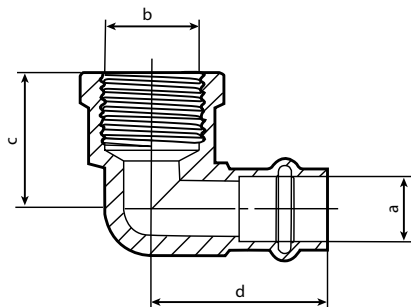
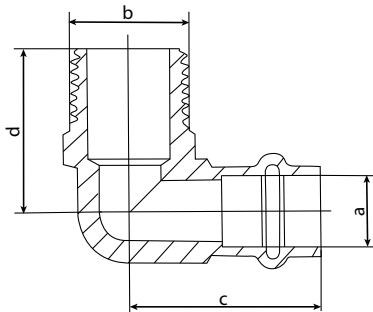
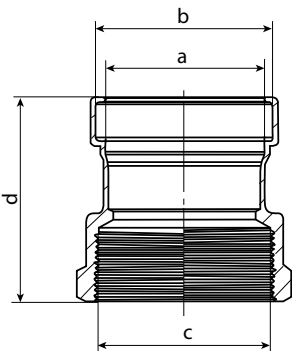
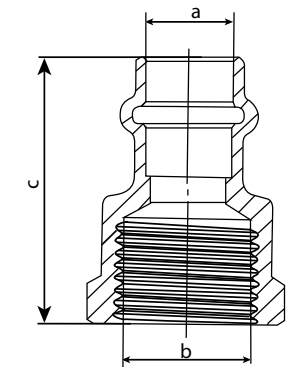
MALE STRAIGHT CONNECTOR

WATER CODE	GAS CODE	HT CODE	a	b	c
OCPWMSC1515	OCPGMSC1515	OCPHTMSC1515	12.85	1/2"	42
OCPWMSC2020	OCPGMSC2020	OCPHTMSC2020	19.25	3/4"	48
OCPWMSC2525	OCPGMSC2525		25.8	1"	52.5
OCPWMSC3232	OCPGMSC3232		32.2	1-1/4"	56.5
OCPWMSC4040	OCPGMSC4040		38.5	1-1/2"	64.5
OCPWMSC5050	OCPGMSC5050		51.3	2"	78
OCPWMSC1520	OCPGMSC1520	OCPHTMSC1520	12.85	3/4"	16
OCPWMSC2015	OCPGMSC2015		19.25	1/2"	44.5
OCPWMSC2520	OCPGMSC2520		25.8	3/4"	47



MALE STRAIGHT CONNECTOR

WATER CODE	a	b	c	d
OCPWMSC6565	66.5	74.5	2-1/2"	93
OCPWMSC8080	78.5	86.5	3"	100



FEMALE STRAIGHT CONNECTOR

WATER CODE	GAS CODE	HT CODE	a	b	c
OCPWFSC1515	OCPGFSC1515	OCPHTFSC1515	12.85	1/2"	39
OCPWFSC2020	OCPGFSC2020	OCPHTFSC2020	19.25	3/4"	44
OCPWFSC2525	OCGFSC2525		25.8	1"	48
OCPWFSC3232	OCPGFSC3232		32.2	1-1/4"	52
OCPWFSC4040	OCPGFSC4040		38.5	1-1/2"	58
OCPWFSC5050	OCPGFSC5050		51.3	2"	70.5

FEMALE STRAIGHT CONNECTOR

WATER CODE	a	b	c	d
OCPWFSC6565	66.5	74.5	2-1/2"	86

MALE ELBOW

WATER CODE	GAS CODE	a	b	c	d
OCPWME1515	OCPGME1515	12.85	1/2"	34	29
OCPWME2020	OCPGME2020	19.25	3/4"	40.5	34

FEMALE ELBOW

WATER CODE	GAS CODE	a	b	c	d
OCPWFE1515	OCPGFE1515	12.85	1/2"	27	35
OCPWFE2020	OCPGFE2020	19.25	3/4"	31	42
OCPWFE2015	OCPGFE2015	19.25	1/2"	30	40

FLANGE ADAPTOR

WATER CODE	GAS CODE	a	b	c
OCPWFA40	FCPGFA40	38.5	135	79
OCPWFA50	FCPGFA50	51.3	150	86