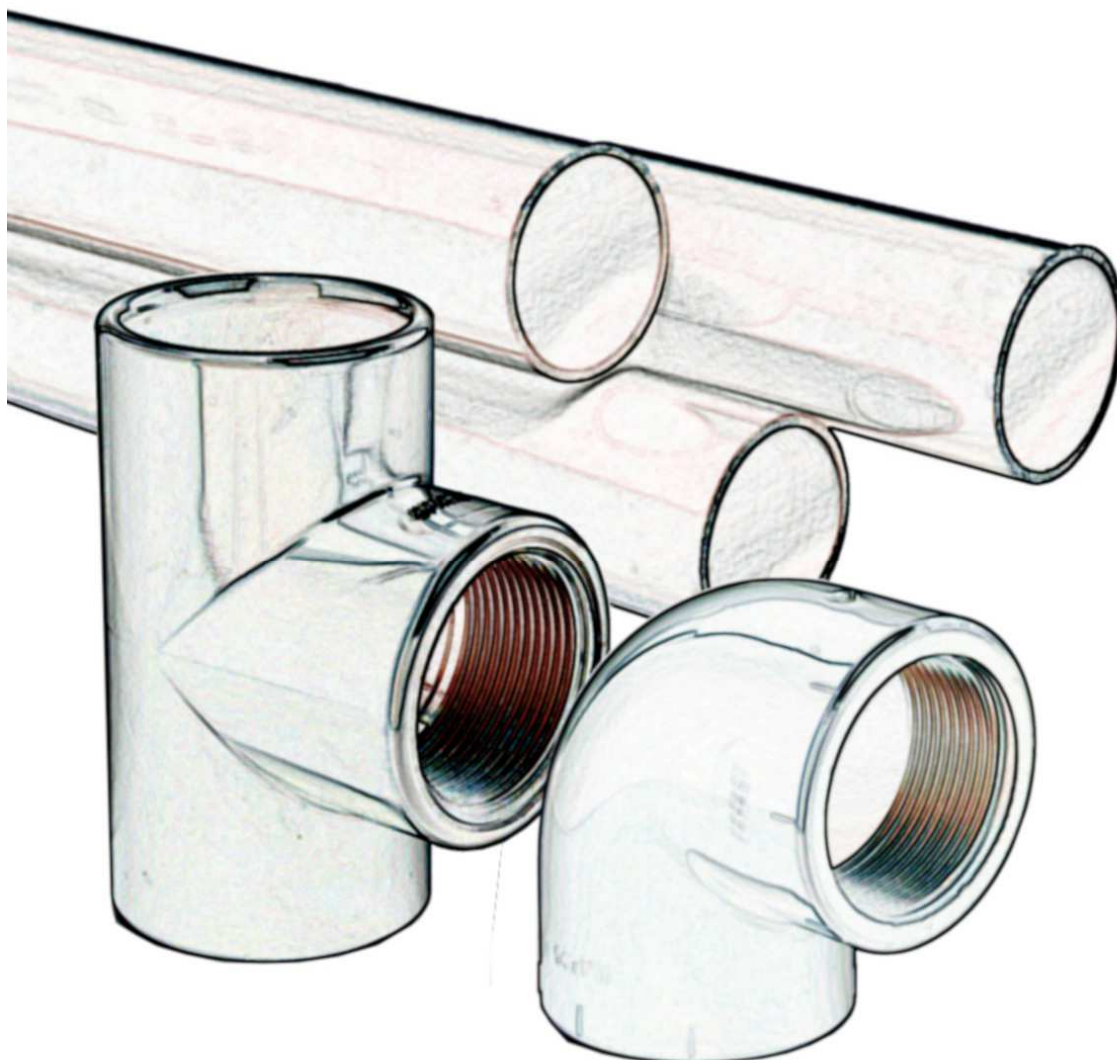




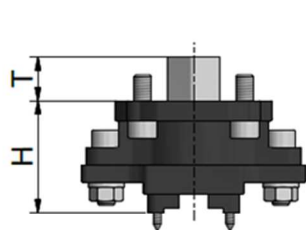
Accessories and spare parts
Accessori e parti di ricambio

Accessories and spare parts

Accessori e ricambi

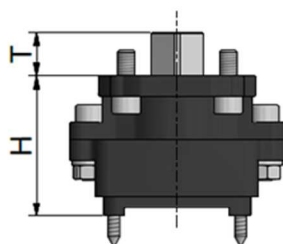
ACTUATION KIT FOR DOUBLE UNION BALL VALVES BK1 KIT DI ATTUAZIONE PER VALVOLE A SFERA RADIALI BK1

Rev. Nov 2019



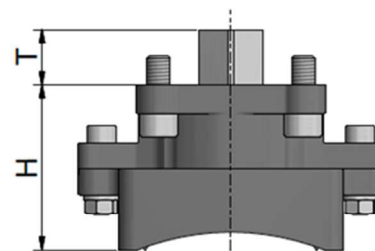
d. 20-25

PA 6 30 GF
Stem adaptor: Stainless steel
Adattatore asta: Acciaio



d.32-63

PA 6 30 GF
Stem adaptor: PA 6 30 GF + Stainless steel
Adattatore asta: PA 6 30 GF + Acciaio



d. 75-110

PVC-U
Stem adaptor: Aluminium
Adattatore asta: Alluminio

Code	d valve		DN	A	B	H	i	f	Q	T min	ISO 5211
BDRKITB10200	16 / 20	3/8" / 1/2"	15	74	55	38,5	50	6,4	9* / 11* / 14	12	F05
BDRKITB10250	25	3/4"	20	74	55	41,5	50	6,4	9* / 11* / 14	12	F05
BDRKITB10320	32	1"	25	74	55	45	50	6,4	9* / 11* / 14	12	F05
BDRKITB10400	40	1"1/4	32	74	55	49,5	50	6,4	9* / 11* / 14	12	F05
BDRKITB10500	50	1"1/2	40	74	55	51	50	6,4	9* / 11* / 14	12	F05
BDRKITB10630	63	2"	50	74	55	52,5	50	6,4	9* / 11* / 14	12	F05
BDRKITB10900	75 / 90	2"1/2 / 3"	80	105	65	52,5	70	8,5	14* / 17	18	F07
BDRKITB11100	110	4"	110	105	65	57	70	8,5	14* / 17	18	F07

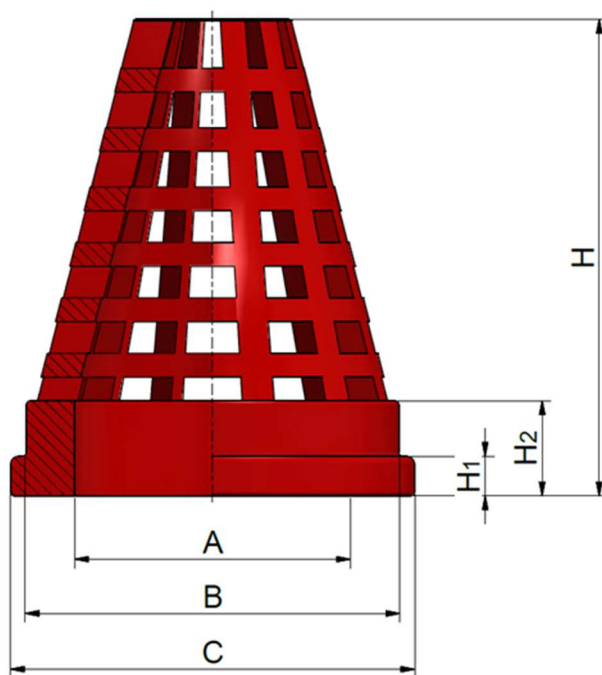
Accessories and spare parts

Accessori e ricambi

PP STRAINER FOR FOOT VALVES

PP SUCCHIERUOLA PER VALVOLE DI FONDO

Rev. Sep 2019



Code	D valve	DN valve	A	B	C	H	H1	H2	Weight (g)
CDRZVD0200	20 -1/2"	15	25	29	37	39	4	9	5
CDRZVD0250	25 -3/4"	20	31	35	43	50	6	11,5	7,5
CDRZVD0320	32 - 1"	25	41	45	51	59,5	5,5	11,5	10,5
CDRZVD0400	40 -1"1/4	32	50	54	62	69,5	7	13,5	15,5
CDRZVD0500	50 1"1/2	40	61	64	73	68,5	6,5	14	18,5
CDRZVD0630	63 - 2"	50	72	77	88,5	83	7,5	14,5	29,5
CDRZVD0750	75 - 2"1/2 / 90 - 3"	80	98	104	118	112	9,5	20	88
CDRZVD1100	110 - 4"	100	118	125	144	135	8,5	21	125

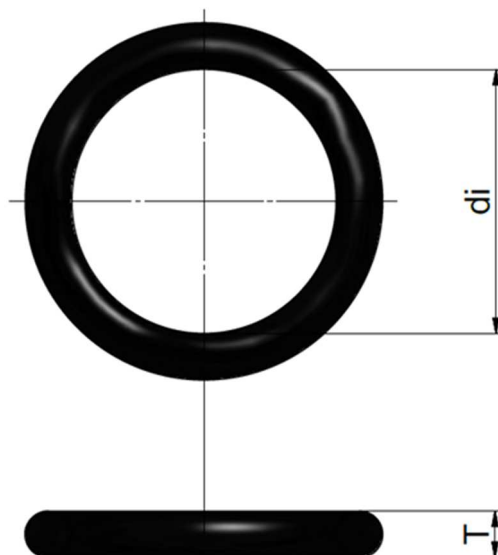
Accessories and spare parts

Accessori e ricambi

O-RING FOR UNION

O-RING PER BOCCHETTONE

Rev. Nov 2019



Code EPDM	Code FKM	d union	di	T	GB ref.	AN ref.	AS568A ref.	OR ref.
RGRGBO020P	RGRGBV0200	20 - 1/2"	20,22	3,53	4081	AN16	A 211	126
RGRGBO025P	RGRGBV0250	25 - 3/4"	28,17	3,53	4112	AN21	A 216	136
RGRGBO032P	RGRGBV0320	32 - 1"	32,92	3,53	4131	AN24	A 219	139
RGRGBO040P	RGRGBV0400	40 - 1 1/4"	40,64	5,33	6162	AN29	A 326	145
RGRGBO050P	RGRGBV0500	50 - 1 1/2"	46,99	5,33	6187	AN31	A 328	151
RGRGBO063P	RGRGBV0630	63 - 2"	59,69	5,33	6237	AN35	A 332	163
RGRGBO075P	RGRGBV0750	75 - 2 1/2"	78,74	5,33	6312	AN41	A 338	180
RGRGBO090EP	RGRGBV090F	90 - 3"	88,27	5,33	6350	AN44	A 341	184
RGRGBO110P	RGRGBV1100	110 - 4"	113,67	5,33	6450	AN52	A 349	195

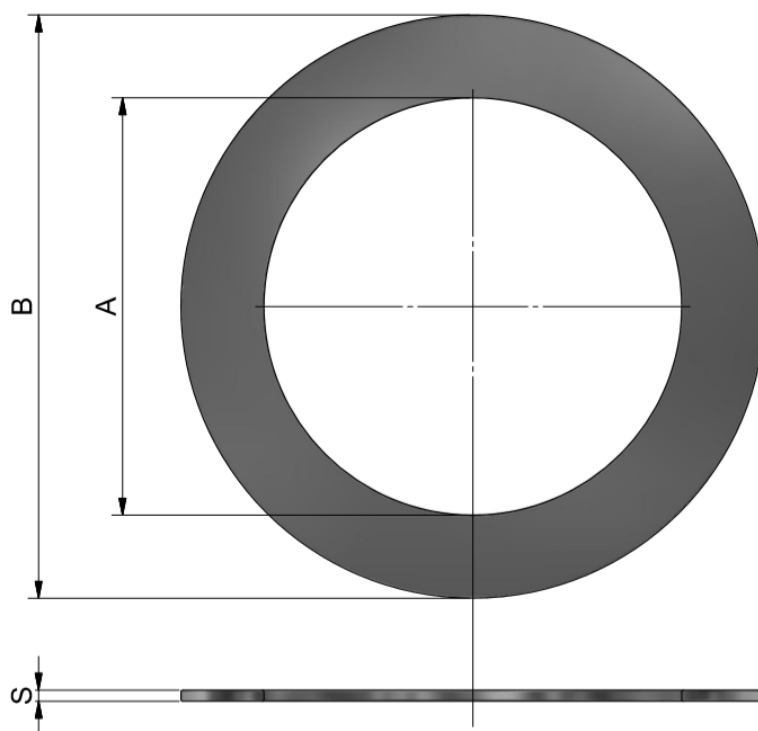
Accessories and spare parts

Accessori e ricambi

FLAT GASKET - EPDM

GUARNIZIONE PIANA - EPDM

Rev Apr 2020



Code EPDM	d	A	B	S
RGRGQP0200	20 - 1/2"	20	32	2
RGRGQP0250	25 - 3/4"	24	38,5	2
RGRGQP0320	32 - 1"	32	48	2
RGRGQP0400	40 - 1 1/4"	40	59	2
RGRGQP0500	50 1 1/2"	50	71	2
RGRGQP0630	63 - 2"	63	88	2
RGRGQP0750	75 - 2 1/2"	75	104	2
RGRGQP0900	90 - 3"	90	123	2
RGRGQP1100	110 - 4"	110	148	3
RGRGQP1250	125	125	166	3
RGRGQP1400	140	140	186	3
RGRGQP1600	160 - 6"	160	211	3
RGRGQP2000	200	200	252	3
RGRGQP2250	225 - 8"	225	269	3
RGRGQP2500	250	250	306	3
RGRGQP2800	280 - 10"	280	327	3
RGRGQP3150	315 - 12"	315	375	3

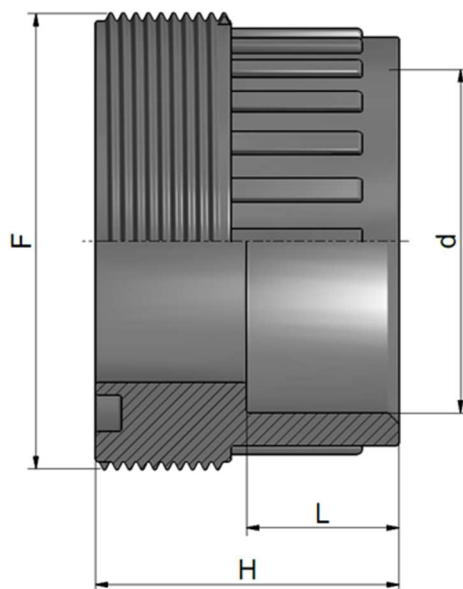
Accessories and spare parts

Accessori e ricambi

PVC-U UNION BUSH – SOLVENT WELDED BS

PVC-U PEZZO FISSO BOCCHETTONE – INCOLLAGGIO BS

Rev. Nov 2019



Code	d	L	H	F	PN	Weight (g)
RARBFA0160	3/8"	14	24	3/4"	15	10
RARBFA0200	1/2"	16	26	1"	15	15
RARBFA0250	3/4"	19	29	1"1/4	15	25
RARBFA0320	1"	22	32	1"1/2	15	29
RARBFA0400	1"1/4	27	38	2"	15	57
RARBFA0500	1"1/2	31	45	2"1/4	15	74
RARBFA0630	2"	38	56	2"3/4	15	142
RARBFA0750	2"1/2	44	62	3"1/2	15	205
RARBFA0900	3"	51	69	4"	15	270
RARBFA1100	4"	61	79	5"	15	465



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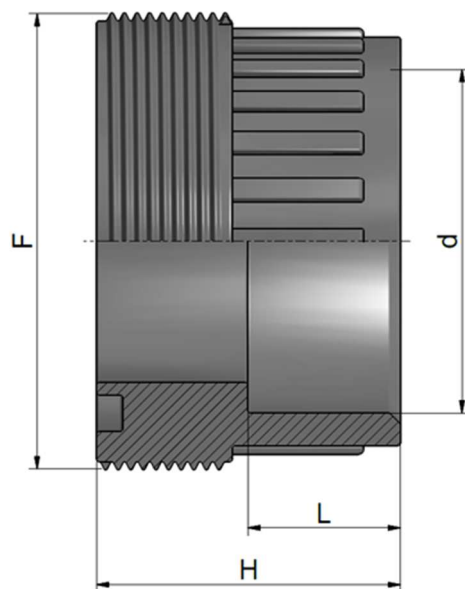
Accessories and spare parts

Accessori e ricambi

PVC-U UNION BUSH – SOLVENT WELDED METRIC

PVC-U PEZZO FISSO BOCCHETTONE – INCOLLAGGIO METRICO

Rev. Nov 2019



Code	d	L	H	F	PN	Weight (g)
RDRBFD0160	16	14	24	3/4"	16	10
RDRBFD0200	20	16	26	1"	16	15
RDRBFD0250	25	19	29	1"1/4	16	25
RDRBFD0320	32	22	32	1"1/2	16	35
RDRBFD0400	40	27	38	2"	16	57
RDRBFD0500	50	31	45	2"1/4	16	67
RDRBFD0630	63	38	56	2"3/4	16	131
RDRBFD0750	75	44	62	3"1/2	16	237
RDRBFD0900	90	51	69	4"	16	297
RDRBFD1100	110	61	79	5"	16	465



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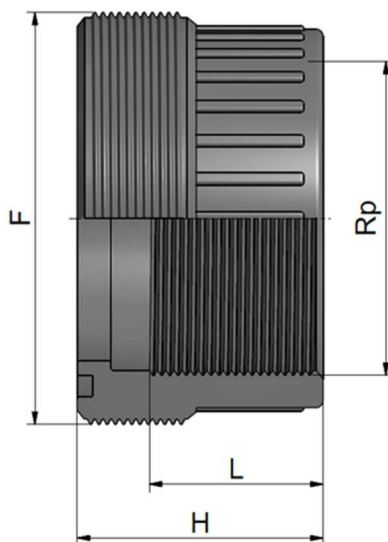
Accessories and spare parts

Accessori e ricambi

PVC-U UNION BUSH – BSPP THREADED

PVC-U PEZZO FISSO BOCCHETTONE – FILETTATO BSPP

Rev. Jun 2019



Code	Rp	L	H	F	PN	Weight (g)
RERBFE016A	3/8"	11,5	24	3/4"	16	10
RERBFE020B	1/2"	15	26	1"	16	15
RERBFE025C	3/4"	16,3	29	1"1/4	16	27
RERBFE032D	1"	19,1	32	1"1/2	16	35
RERBFE040E	1"1/4	23	38	2"	16	60
RERBFE050F	1"1/2	21,6	45	2"1/4	16	87
RERBFE063G	2"	29	56	2"3/4	16	180
RERBFE075H	2"1/2	31	62	3"1/2	16	235
RERBFE090I	3"	37	69	4"	16	335
RERBFE110L	4"	39,3	79	5"	16	470

Thread according to ISO 228-1 / Filettatura secondo ISO 228-1



NSF and WRAS certifications: only for valves with EPDM seals. Certifications and approvals are related to items declared on Official Listing or certificates. /
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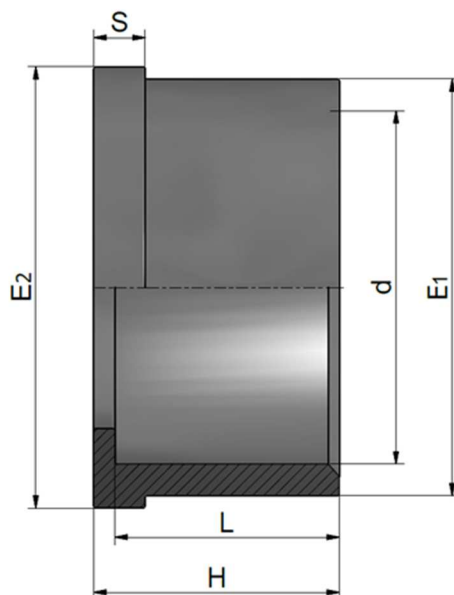
Accessories and spare parts

Accessori e ricambi

PVC-U UNION END - SOLVENT WELDED BS

PVC-U PEZZO FOLLE BOCCHETTONE - INCOLLAGGIO BS

Rev. Jun 2019



Code	d	L	H	E1	E2	S	PN	Weight (g)
RARBLA0160	3/8"	14	18	22	24	7	15	6
RARBLA0200	1/2"	16	19	28	30	5	15	10
RARBLA0250	3/4"	19	22	34	39	6	15	16
RARBLA0320	1"	22	25	41	44,5	6	15	22
RARBLA0400	1"1/4	27	30	51	56	7,5	15	40
RARBLA0500	1"1/2	31	35	59	62	7	15	49
RARBLA0630	2"	38	42	74	78,5	7	15	89
RARBLA0750	2"1/2	44	48	90	96	10	15	150
RARBLA0900	3"	51	56	105	110	13	15	195
RARBLA1100	4"	61	66	129	135	13	15	350



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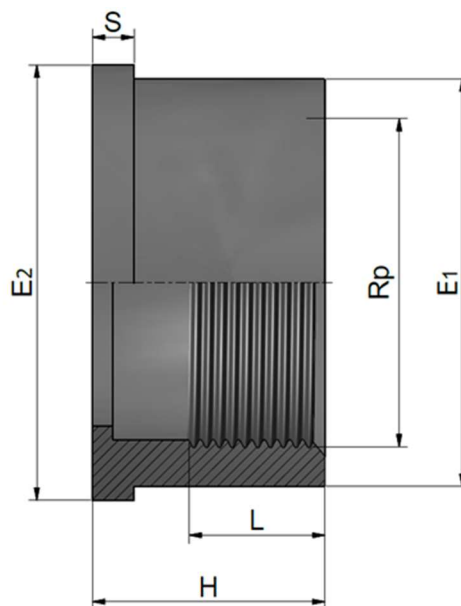
Accessories and spare parts

Accessori e ricambi

PVC-U UNION END - BSPP THREADED

PVC-U PEZZO FOLLE BOCCHETTONE - FILETTATO BSPP

Rev. Jun 2019



Code	Rp	L	H	E1	E2	S	PN	Weight (g)
RERBLE016A	3/8"	14	18	22	24	7	16	7
RERBLE020B	1/2"	15	19	28	30	5	16	10
RERBLE025C	3/4"	17,3	22	34	39	6	16	17
RERBLE032D	1"	19,5	25	41	44,5	6	16	25
RERBLE040E	1"1/4	21,4	30	51	56	7,5	16	43
RERBLE050F	1"1/2	22	35	59	62	7	16	65
RERBLE063G	2"	26	42	74	78,5	7	16	120
RERBLE075H	2"1/2	30,2	48	90	96	10	16	160
RERBLE090I	3"	33,3	56	105	110	13	16	235
RERBLE110L	4"	39,3	66	129	135	13	16	340

Thread according to ISO 228-1 / Filettatura secondo ISO 228-1



NSF and WRAS certifications: only for valves with EPDM seals. Certifications and approvals are related to the products declared on Official Listing or certificates. /
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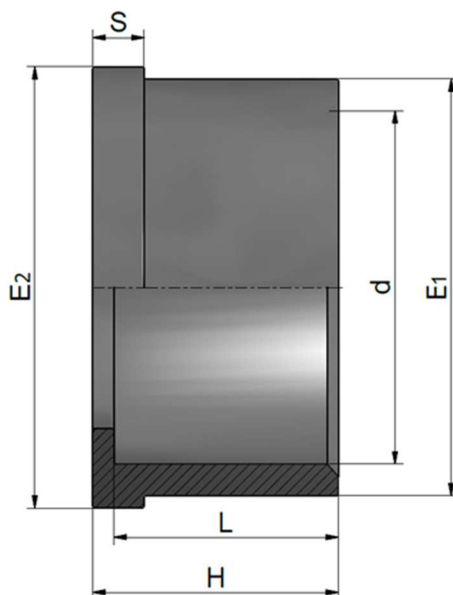
Accessories and spare parts

Accessori e ricambi

PVC-U UNION END - SOLVENT WELDED METRIC

PVC-U PEZZO FOLLE BOCCHETTONE - INCOLLAGGIO METRICO

Rev. Oct 2019



Code	d	L	H	E1	E2	S	PN	Weight (g)
RDRBLD0160	16	14	18	22	24	7	16	6
RDRBLD0200	20	16	19	28	30	5	16	10
RDRBLD0250	25	19	22	34	39	6	16	16
RDRBLD0320	32	22	25	41	44,5	6	16	22
RDRBLD0400	40	27	30	51	56	7,5	16	40
RDRBLD0500	50	31	35	59	62	7	16	45
RDRBLD0630	63	38	42	74	78,5	7	16	80
RDRBLD0750	75	44	48	90	96	10	16	150
RDRBLD0900	90	51	56	105	110	13	16	195
RDRBLD1100	110	61	66	129	135	13	16	350



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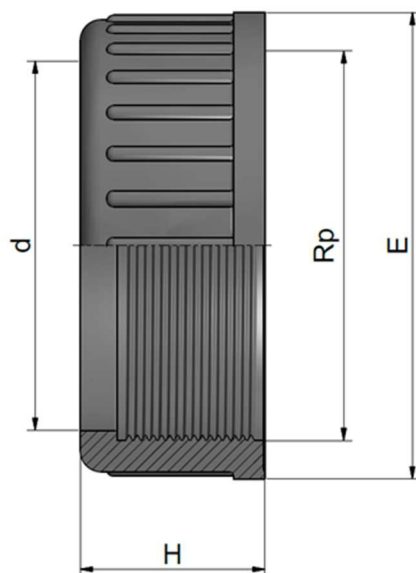
Accessories and spare parts

Accessori e ricambi

PVC-U UNION NUT

PVC-U GHIERA PER BOCCHETTONE

Rev. Oct 2019



Code	d union	Rp	H	E	d	PN	Weight (g)
RDRBGD0160	16-3/8"	3/4"	23	34	22	16	13
RDRBGD0200	20-1/2"	1"	23	43	27,5	16	17
RDRBGD0250	25-3/4"	1"1/4	25	54	36,1	16	27
RDRBGD0320	32-1"	1"1/2	27	61	41,5	16	49
RDRBGD0400	40-1"1/4	2"	29	75	53,1	16	55
RDRBGD0500	50-1"1/2	2"1/4	34	81	59,1	16	76
RDRBGD0630	63-2"	2"3/4	37	99	74,1	16	145
RDRBGD0750	75-2"1/2	3"1/2	45	120	92,5	16	218
RDRBGD0900	90-3"	4"	52	134	105,1	16	262
RDRBGD1100	110-4"	5"	60	163	129,2	16	483



NSF and WRAS certifications: only for valves with EPDM seals. Certifications and approvals are related to items declared on Official Listing or certificates. /
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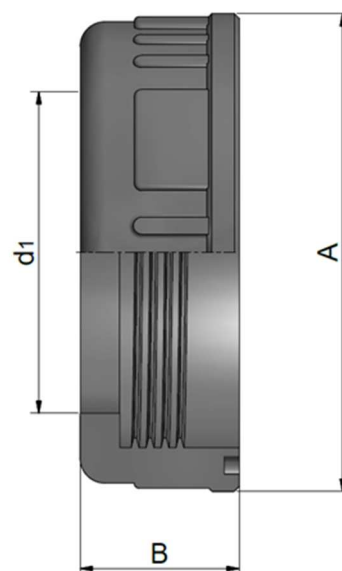
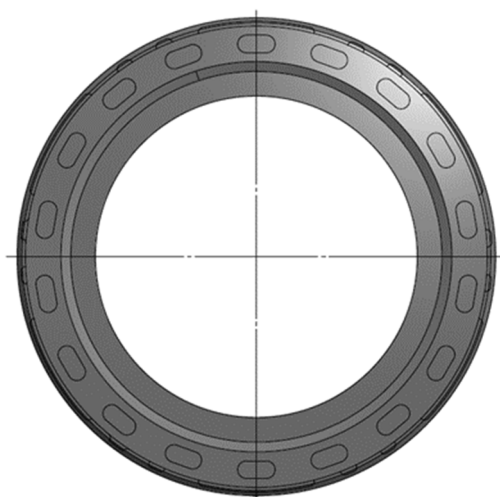
Accessories and spare parts

Accessori e ricambi

PVC-U VALVE NUT

PVC-U GHIERA PER VALVOLA

Rev. Nov 2019



Code	d valve		A	B	d1	Weight (g)
BDRGHI0200	16 - 20	3/8" - 1/2"	49	20	31	18,5
BDRGHI0250	25	3/4"	60	23	37	33
BDRGHI0320	32	1"	69	26	45	44,5
BDRGHI0400	40	1"1/4	80	28	54,5	65
BDRGHI0500	50	1"1/2	96	32	65	111,5
BDRGHI0630	63	2"	116	37	80	178
BDRGHI0900	75 - 90	2"1/2 - 3"	167	58	110	536,5
BDRGHI1100	110	4"	209	69,5	135	991,5



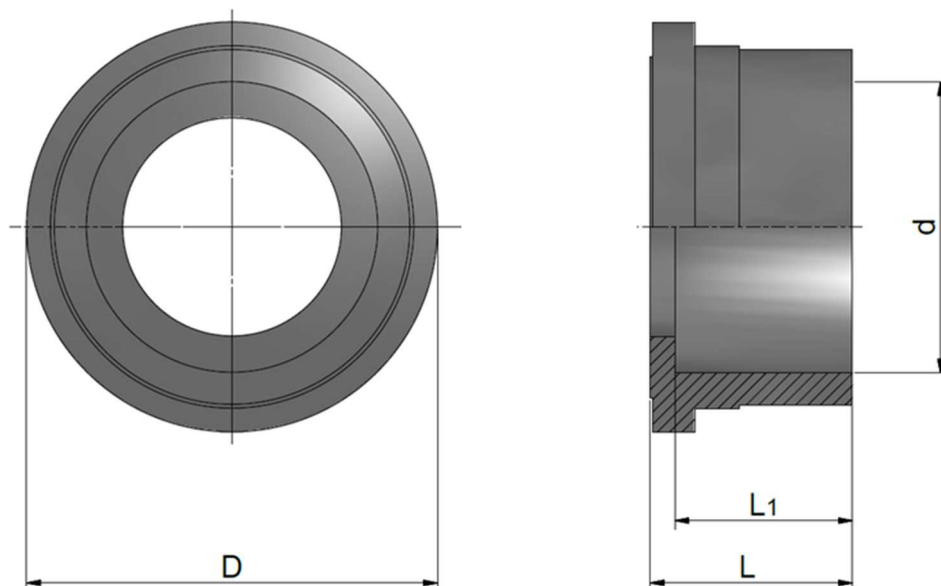
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Accessories and spare parts

Accessori e ricambi

PVC-U VALVE SOCKET – SOLVENT WELDED METRIC PVC-U MANICOTTO VALVOLA – INCOLLAGGIO METRICO

Rev. Nov 2019



Code	d	L	L1	D	Weight (g)
BDRMAN0200	20	18	16	35,4	12
BDRMAN0250	25	21,5	19	42,75	25
BDRMAN0320	32	25	22	51	27
BDRMAN0400	40	29,5	26	59,7	48
BDRMAN0500	50	35	31	71,9	62
BDRMAN0630	63	42,5	39	88,9	106
BDRMAN0750	75	49,5	44	132	215
BDRMAN0900	90	56	51	133,1	273
BDRMAN1100	110	66	60,5	164,3	535



NSF and WRAS certifications: only for valves with EPDM seals. Certifications and approvals are related to items declared on Official Listing or certificates. /
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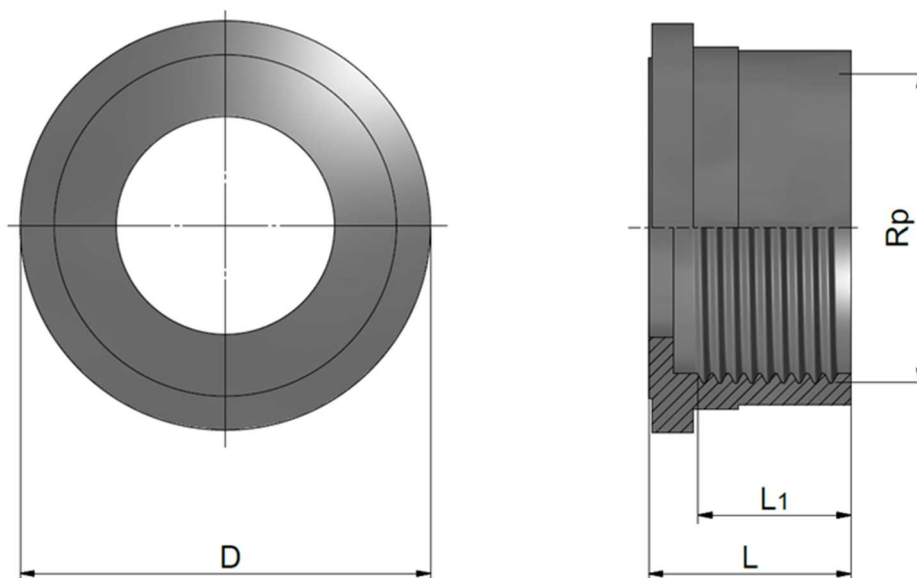
Accessories and spare parts

Accessori e ricambi

PVC-U VALVE SOCKET – BSPP THREADED

PVC-U MANICOTTO VALVOLA – FILETTATO BSPP

Rev. Nov 2019



Code	Rp	L	L1 min	D	Weight (g)
BERMAN0200	1/2"	18	13,2	35,4	24
BERMAN0250	3/4"	21,5	14,5	42,75	20
BERMAN0320	1"	25	16,8	51	30
BERMAN0400	1"1/4	29,5	19,1	59,7	49
BERMAN0500	1"1/2	35	19,1	71,9	68
BERMAN0630	2"	42,5	23,4	88,9	95
BERMAN0750	2"1/2	49,5	26,7	132	215
BERMAN0900	3"	56	29,8	133,1	295
BERMAN1100	4"	66	35,8	164,3	535

Thread according to ISO 228-1 / Filettatura secondo ISO 228-1



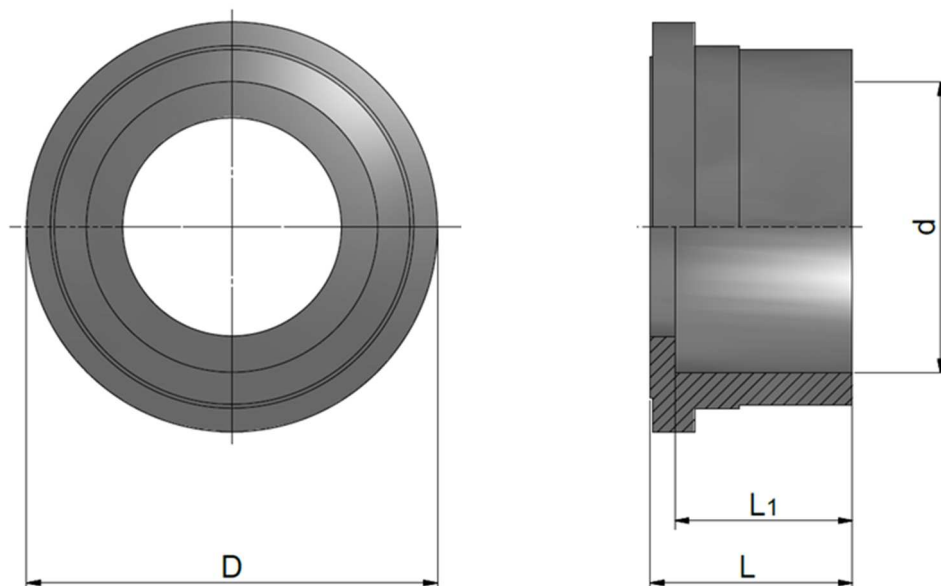
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Accessories and spare parts

Accessori e ricambi

PVC-U VALVE SOCKET – SOLVENT WELDED BS PVC-U MANICOTTO VALVOLA – INCOLLAGGIO BS

Rev. Nov 2019



Code	d	L	L1	D	Weight (g)
BARMAN0200	1/2"	18	16	35,4	12
BARMAN0250	3/4"	21,5	19	42,75	25
BARMAN0320	1"	25	22	51	27
BARMAN0400	1"1/4	29,5	26	59,7	48
BARMAN0500	1"1/2	35	31	71,9	62
BARMAN0630	2"	42,5	39	88,9	106
BARMAN0750	2"1/2	49,5	44	132	215
BARMAN0900	3"	56	51	133,1	273
BARMAN1100	4"	66	60,5	164,3	535



NSF and WRAS certifications: only for valves with EPDM seals. Certifications and approvals are related to items declared on Official Listing or certificates. /
Certificazioni NSF e WRAS: valide solo per le valvole con guarnizioni EPDM. Le certificazioni si riferiscono ai prodotti dichiarati nelle Official Listing o sui certificati stessi.

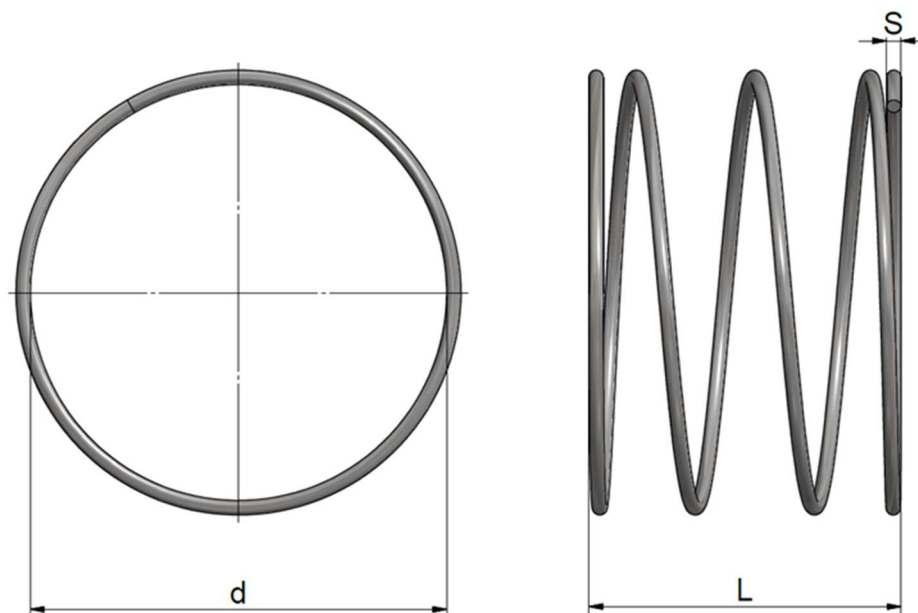
Accessories and spare parts

Accessori e ricambi

PVC-U VALVE SOCKET – BSPP THREADED

PVC-U MANICOTTO VALVOLA – FILETTATO BSPP

Rev. Jul 2019



Code	d valve		d	L	S
CDRMOL0200	20	1/2"	18	21	0,6
CDRMOL0250	25	3/4"	22,4	28	0,7
CDRMOL0320	32	1"	26	34	0,8
CDRMOL0400	40	1"1/4	30	40	1
CDRMOL0500	50	1"1/2	38	49	1,2
CDRMOL0630	63	2"	47	60	1,6
CDRMOL0900	75 - 90	2"1/2 - 3"	71,5	105	2,2

Thread according to ISO 228-1 / *Filettatura secondo ISO 228-1*

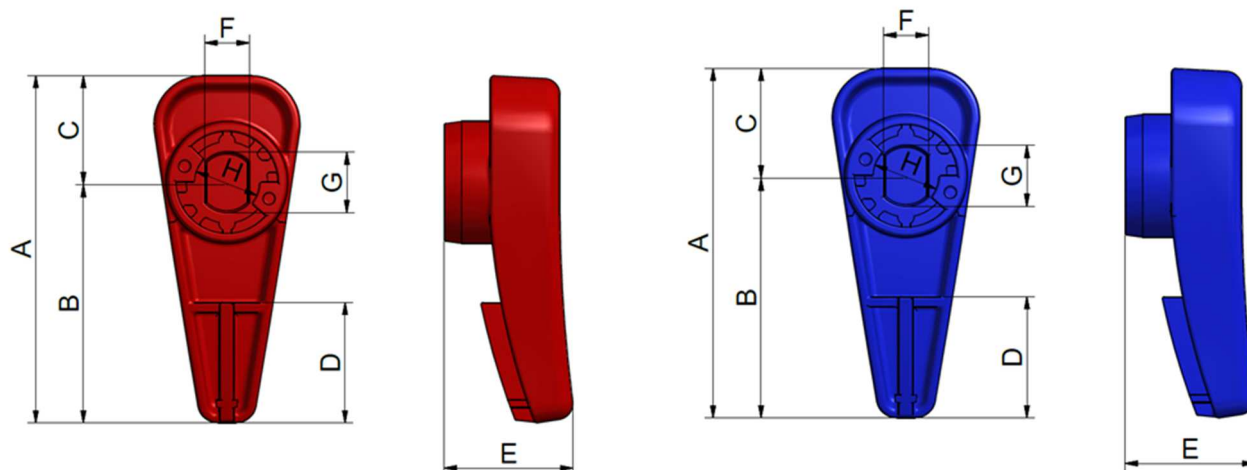
Accessories and spare parts

Accessori e ricambi

HANDLE D.20 - 63

MANIGLIA D.20 - 63

Rev. Jun 2019



Code red handle	Code blue handle	d valve	A	B	C	D	E	F	G	H
BDRHAN0200	BDRHBN0200	20	64	42	22	18	23	8	10,5	12
BDRHAN0250	BDRHBN0250	25	74	42	22	23,5	27	10	13	14
BDRHAN0320	BDRHBN0320	32	56	49	24	30,5	31,5	11	15	16
BDRHAN0400	BDRHBN0400	40	85	59	26	35,5	33,5	12	17	18
BDRHAN0500	BDRHBN0500	50	98	65	32	44,5	40	15,5	19	20
BDRHAN0630	BDRHBN0630	63	111	71	40	54,5	44	17,5	24	25

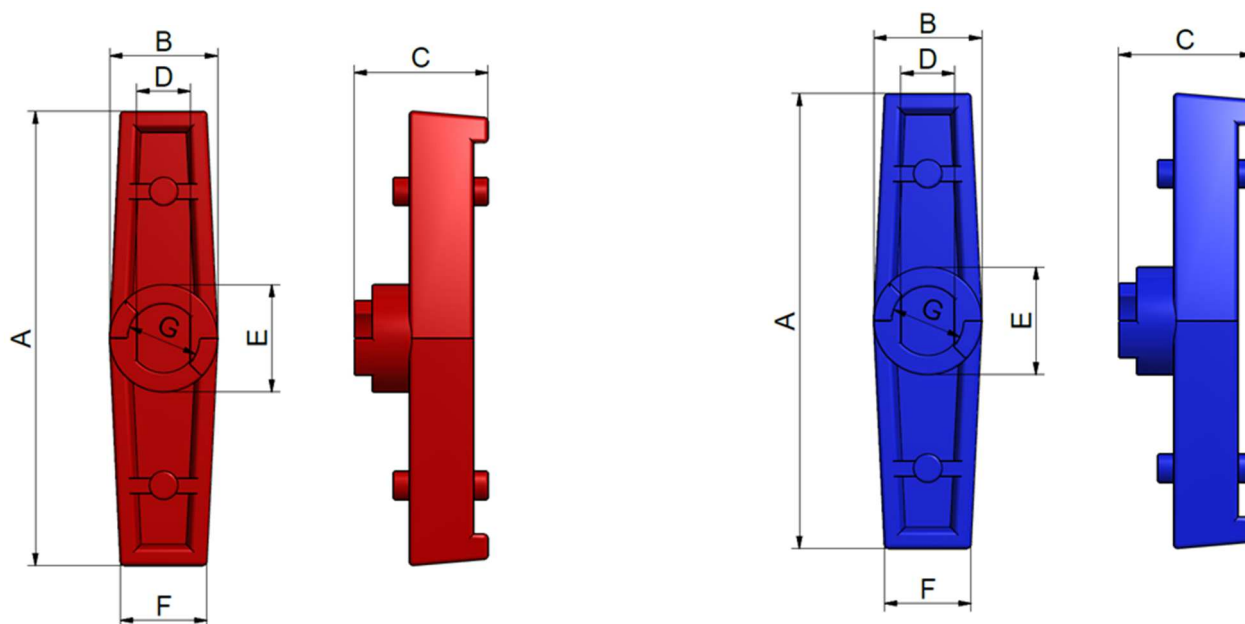
Accessories and spare parts

Accessori e ricambi

HANDLE D.75-110

MANIGLIA D.75-110

Rev. Jun 2019



Code red handle	Code blue handle	d valve	A	B	C	D	E	F	G
BDRHAN0750	BDRHBN0750	75	169	84,5	84,5	22	29	37	30
BDRHAN0900	BDRHBN0900	90	169	84,5	84,5	22	29	37	30
BDRHAN1100	BDRHBN1100	110	204	102	102	24	31	39	32

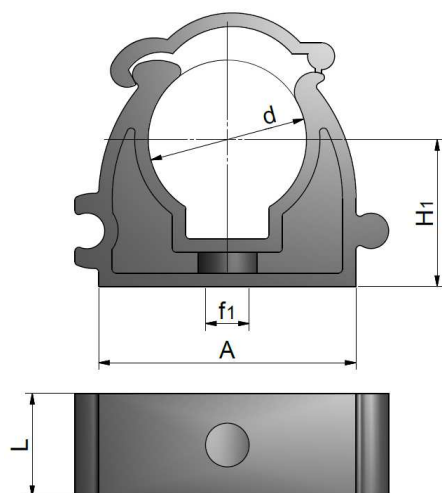
Accessories and spare parts

Accessori e ricambi

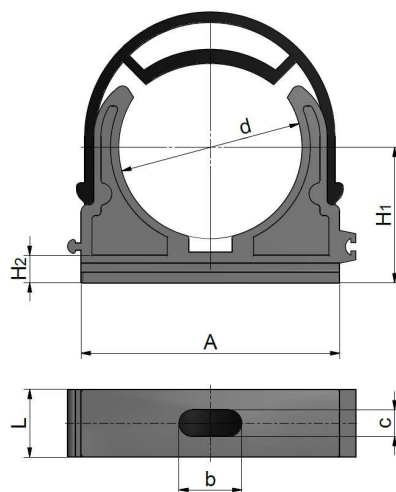
PP PIPECLIP

PORTATUBO IN PP

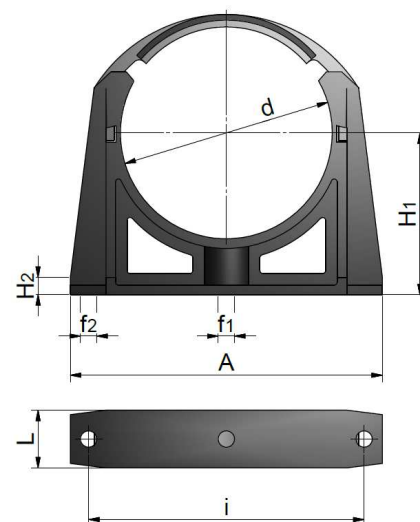
Rev. Sep 2019



d.20-25 mm



d.32-63 mm



d.75-160 mm

Code	Ø	A	L	H1	H2	f1	b x c	f2	i	Weight (g)
RDRPTD0200	20	32,5	13	18,5	6	5,5	-	-	-	3
RDRPTD0250	25	34,5	15	21	6,5	4,8	-	-	-	4
RDRPTD0320	32	44,5	15	30	8	-	9,25x5,75	-	-	6
RDRPTD0400	40	62	15	36	10	-	10x5,75	-	-	10
RDRPTD0500	50	72,5	19	40,5	8	-	17,8x7,5	-	-	20
RDRPTD0630	63	87	19	46,5	8	-	18x7	-	-	30
RDRPTD0750	75	125	30	63,5	9	8,5	-	8,5	107	90
RDRPTD0900	90	141,5	30	72	9	8,5	-	8,5	123	120
RDRPTD1100	110	162	30	84	9	8,5	-	8,5	143	140
RDRPTD1250	125	181	38	115,5	10	8,5	-	8,5	163	240
RDRPTD1400	140	196,5	40	130	10	8,5	-	8,5	178,5	290
RDRPTD1600	160	218,5	40	149	10	8,5	-	8,5	200,5	340

Electric actuator *Attuatore elettrico*

Rev. Sep 2020

EFFAST's actuators is a completely multi-voltage compact electrical actuator range for the control and regulation of ball valves or butterfly valves.

Gli attuatori EFFAST sono una gamma di attuatori elettrici compatti completamente multi-tensione per il controllo e la regolazione delle valvole a sfera o a farfalla.



GENERAL CHARACTERISTICS / CARATTERISTICHE GENERALI	L020/H020	L035/H035	L055/H055	L085/H085	L140/H140	L300/H300
Housing / <i>Coperchio</i>	Anticorrosive polyamide (lid & body) / <i>Poliammide anticorrosiva (coperchio e corpo)</i>		Anticorrosive polyamide (lid & body) / <i>Poliammide anticorrosiva (coperchio e corpo)</i>			
Main external shaft / <i>Asta</i>	Anticorrosive polyamide / <i>Poliammide anticorrosiva</i>		Stainless steel / <i>Acciaio Inox</i>			
External screws / <i>Viti esterne</i>	Stainless steel / <i>Acciaio Inox</i>		Stainless steel / <i>Acciaio Inox</i>			
Gears / <i>Ingranaggi</i>	Steel and polyamide / <i>Acciaio Inox e poliammide</i>		Steel and polyamide / <i>Acciaio Inox e poliammide</i>			
Visual position indicator / <i>Indicatore di posizione visiva</i>	Polyamide / <i>Poliammide</i>		Polyamide / <i>Poliammide</i>			
Dome / <i>Cupola</i>	Polycarbonate / <i>Policarbonato</i>		Polycarbonate / <i>Policarbonato</i>			
Insulation / <i>Isolamento</i>	Class B		Class B			
(IEC 60034) Service	S4		S4			

Electric actuator

Attuatore elettrico

TECNICAL FEATURES / CARATTERISTICHE TECNICHE	L020	H020
Voltage VAC/VDC 50/60 Hz -0/+5% / <i>Voltaggio VAC/VDC 50/60 Hz -0/+5%</i>	12 V AC / 12 V DC	24-240 V AC/24-135 V DC
Operation time unload / <i>Tempo di manovra</i>	9 sec. / 90°	
Maximum torque break / <i>Torque massimo a rottura</i>	25 Nm / 221 lb/in	
Maximum operating torque / <i>Torque massimo operativo</i>	20 Nm / 177 lb/in	
Duty rating / <i>Potenza operativa</i>	75%	
Maximum working angle / <i>Massimo angolo di lavoro</i>	0° to 270°	
Limit switch / <i>Finecorsa</i>	4 SPST NO micro (2motor stop and 2 confirmations)	
Automatic Heater / <i>Riscaldatore automatico</i>	3.5 W	
Big plug / <i>Connettore grande</i>	EN175301-803 FORM A	
Small plug / <i>Connettore piccolo</i>	DIN43650/C	
Protection IEC 60529 rating / <i>Grado di protezione IEC 60529</i>	IP67	
Temperature / <i>Temperatura</i>	-20°C+70°C / -4°F +158°F	

TECNICAL FEATURES / CARATTERISTICHE TECNICHE	L035	H035
Voltage VAC/VDC 50/60 Hz -0/+5% / <i>Voltaggio VAC/VDC 50/60 Hz -0/+5%</i>	12 V AC / 12 V DC	24-240 V AC/24-135 V DC
Operation time unload / <i>Tempo di manovra</i>	9 sec. / 90°	
Maximum torque break / <i>Torque massimo a rottura</i>	38 Nm / 359.3 lb/in	
Maximum operating torque / <i>Torque massimo operativo</i>	35 Nm / 309 lb/in	
Duty rating / <i>Potenza operativa</i>	75%	
Maximum working angle / <i>Massimo angolo di lavoro</i>	0° to 270°	
Limit switch / <i>Finecorsa</i>	4 SPST NO micro (2motor stop and 2 confirmations)	
Automatic Heater / <i>Riscaldatore automatico</i>	3.5 W	
Big plug / <i>Connettore grande</i>	EN175301-803 FORM A	
Small plug / <i>Connettore piccolo</i>	DIN43650/C	
Protection IEC 60529 rating / <i>Grado di protezione IEC 60529</i>	IP67	
Temperature / <i>Temperatura</i>	-20°C+70°C / -4°F +158°F	

TECNICAL FEATURES / CARATTERISTICHE TECNICHE	L055	H055
Voltage VAC/VDC 50/60 Hz -0/+5% / <i>Voltaggio VAC/VDC 50/60 Hz -0/+5%</i>	12 V AC / 12 V DC	24-240 V AC/24-135 V DC
Operation time unload / <i>Tempo di manovra</i>	9 sec. / 90°	
Maximum torque break / <i>Torque massimo a rottura</i>	60 Nm / 530 lb/in	
Maximum operating torque / <i>Torque massimo operativo</i>	55 Nm / 468 lb/in	
Duty rating / <i>Potenza operativa</i>	75%	
Maximum working angle / <i>Massimo angolo di lavoro</i>	0° to 270°	
Limit switch / <i>Finecorsa</i>	4 SPST NO micro (2motor stop and 2 confirmations)	
Automatic Heater / <i>Riscaldatore automatico</i>	3.5 W	
Big plug / <i>Connettore grande</i>	EN175301-803 FORM A	
Small plug / <i>Connettore piccolo</i>	DIN43650/C	
Protection IEC 60529 rating / <i>Grado di protezione IEC 60529</i>	IP67	
Temperature / <i>Temperatura</i>	-20°C+70°C / -4°F +158°F	

Electric actuator

Attuatore elettrico

TECNICAL FEATURES / CARATTERISTICHE TECNICHE	L085	H085
Voltage VAC/VDC 50/60 Hz -0/+5% / <i>Voltaggio VAC/VDC 50/60 Hz -0/+5%</i>	12 V AC / 12 V DC	24-240 V AC/24-135 V DC
Operation time unload / <i>Tempo di manovra</i>	9 sec. / 90°	
Maximum torque break / <i>Torque massimo a rottura</i>	90 Nm / 796.3 lb/in	
Maximum operating torque / <i>Torque massimo operativo</i>	85 Nm / 752 lb/in	
Duty rating / <i>Potenza operativa</i>	75%	
Maximum working angle / <i>Massimo angolo di lavoro</i>	0° to 270°	
Limit switch / <i>Finecorsa</i>	4 SPST NO micro (2motor stop and 2 confirmations)	
Automatic Heater / <i>Riscaldatore automatico</i>	3.5 W	
Big plug / <i>Connettore grande</i>	EN175301-803 FORM A	
Small plug / <i>Connettore piccolo</i>	DIN43650/C	
Protection IEC 60529 rating / <i>Grado di protezione IEC 60529</i>	IP67	
Temperature / <i>Temperatura</i>	-20°C+70°C / -4°F +158°F	

TECNICAL FEATURES / CARATTERISTICHE TECNICHE	L140	H140
Voltage VAC/VDC 50/60 Hz -0/+5% / <i>Voltaggio VAC/VDC 50/60 Hz -0/+5%</i>	12 V AC / 12 V DC	24-240 V AC/24-135 V DC
Operation time unload / <i>Tempo di manovra</i>	9 sec. / 90°	
Maximum torque break / <i>Torque massimo a rottura</i>	170 Nm / 1504.5 lb/in	
Maximum operating torque / <i>Torque massimo operativo</i>	140 Nm / 1239 lb/in	
Duty rating / <i>Potenza operativa</i>	75%	
Maximum working angle / <i>Massimo angolo di lavoro</i>	0° to 270°	
Limit switch / <i>Finecorsa</i>	4 SPST NO micro (2motor stop and 2 confirmations)	
Automatic Heater / <i>Riscaldatore automatico</i>	3.5 W	
Big plug / <i>Connettore grande</i>	EN175301-803 FORM A	
Small plug / <i>Connettore piccolo</i>	DIN43650/C	
Protection IEC 60529 rating / <i>Grado di protezione IEC 60529</i>	IP67	
Temperature / <i>Temperatura</i>	-20°C+70°C / -4°F +158°F	

TECNICAL FEATURES / CARATTERISTICHE TECNICHE	L300	H300
Voltage VAC/VDC 50/60 Hz -0/+5% / <i>Voltaggio VAC/VDC 50/60 Hz -0/+5%</i>	12 V AC / 12 V DC	24-240 V AC/24-135 V DC
Operation time unload / <i>Tempo di manovra</i>	9 sec. / 90°	
Maximum torque break / <i>Torque massimo a rottura</i>	350 Nm / 3097.5 lb/in	
Maximum operating torque / <i>Torque massimo operativo</i>	300 Nm / 2655 lb/in	
Duty rating / <i>Potenza operativa</i>	75%	
Maximum working angle / <i>Massimo angolo di lavoro</i>	0° to 270°	
Limit switch / <i>Finecorsa</i>	4 SPST NO micro (2motor stop and 2 confirmations)	
Automatic Heater / <i>Riscaldatore automatico</i>	3.5 W	
Big plug / <i>Connettore grande</i>	EN175301-803 FORM A	
Small plug / <i>Connettore piccolo</i>	DIN43650/C	
Protection IEC 60529 rating / <i>Grado di protezione IEC 60529</i>	IP67	
Temperature / <i>Temperatura</i>	-20°C+70°C / -4°F +158°F	

Electric actuator Attuatore elettrico

TYPE / MODELLO	TORQUE (NM)	VOLTAGE VAC/VDC	WORKING ANGLE	CODE	COUPLING MOTOR-VALVE / ACCOPPIAMENTO MOTORE- VALVOLA
XEL090L	20	12 V AC/ 12 V DC	0° - 90°	XEL090.L020.Q14	Ball Valves d. 16-63 / Valvole a sfera d. 16-63
	35	12 V AC/ 12 V DC	0° - 90°	XEL090.L035.Q14	PROFLOW d. 75
	55	12 V AC/ 12 V DC	0° - 90°	XEL090.L055.Q17	Ball Valves d. 75/90-110 - PROFLOW d. 125/140 / Valvole a sfera d. 75/90-110 PROFLOW d. 125/140
		12 V AC/ 12 V DC	0° - 90°	XEL090.L055.Q14	PROFLOW d. 90-110
	85	12 V AC/ 12 V DC	0° - 90°	XEL090.L085.Q14	PROFLOW d. 140
	140	12 V AC/ 12 V DC	0° - 90°	XEL090.L140.Q17	PROFLOW d. 160
	300	12 V AC/ 12 V DC	0° - 90°	XEL090.L300.Q22	PROFLOW d. 200/225

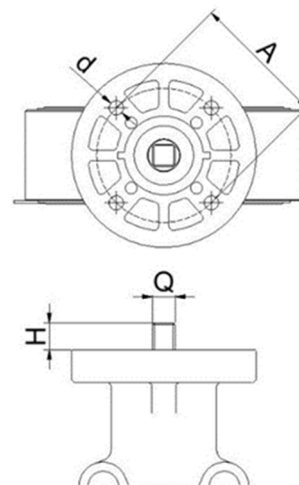
TYPE / MODELLO	TORQUE (NM)	VOLTAGE VAC/VDC	WORKING ANGLE	CODE	COUPLING MOTOR-VALVE / ACCOPPIAMENTO MOTORE- VALVOLA
XEL090H	20	24-240 V AC / 24-135 V DC	0° - 90°	XEL090.H020.Q14	Ball Valves d. 16-63 / Valvole a sfera d. 16-63
	35	24-240 V AC / 24-135 V DC	0° - 90°	XEL090.H035.Q14	PROFLOW d. 75
	55	24-240 V AC / 24-135 V DC	0° - 90°	XEL090.H055.Q17	Ball Valves d. 75/90-110 - PROFLOW d. 125/140 / Valvole a sfera d. 75/90-110 PROFLOW d. 125/140
		24-240 V AC / 24-135 V DC	0° - 90°	XEL090.H055.Q14	PROFLOW d. 90-110
	85	24-240 V AC / 24-135 V DC	0° - 90°	XEL090.H085.Q14	PROFLOW d. 140
	140	24-240 V AC / 24-135 V DC	0° - 90°	XEL090.H140.Q17	PROFLOW d. 160
	300	24-240 V AC / 24-135 V DC	0° - 90°	XEL090.H300.Q22	PROFLOW d. 200/225

Actuation / Attuazione

PROFLOW butterfly valve can be actuated with standard electric or pneumatic actuators and can be equipped with wheel gearboxes. The mounting flange is drilled according to standard ISO 5211. No additional kit is needed.

La valvola a farfalla PROFLOW può essere azionata mediante attuatori elettrici o pneumatici standard e può essere dotata di riduttore a volantino. Lo standard di accoppiamento è conforme allo standard ISO 5211. Non sono necessari kit addizionali.

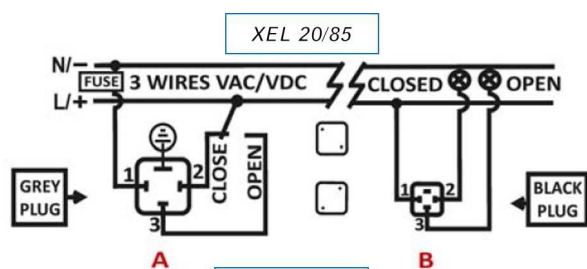
DN	ISO 5211	A	d	Q	H
65	F07	70	9	14	16
90	F07	70	9	14	16
100	F07	70	9	14	16
125	F07	70	9	14	16
150	F07/F10	70/102	9/11	17	19
200	F07/F10	70/102	9/11	22	24



Electric actuator

Attuatore elettrico

External connecting diagram / *Schemi di collegamento*



3 WIRES ON-OFF

A = Power supply plug

A: VAC 3 WIRES (Grey plug)

PIN 1 = Neutral + PIN 2 = Phase = Close

PIN 1 = Neutral + PIN 3 = Phase = Open

A: VDC 3 WIRES (Grey plug)

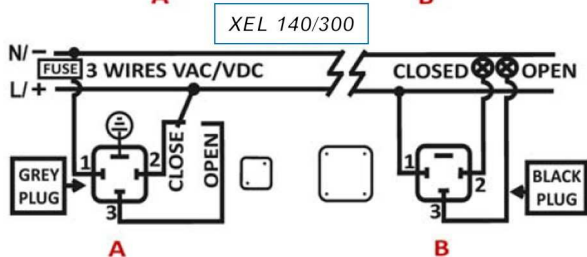
PIN 1 = (-) Negative + PIN 2 = (+) Positive = Close

PIN 1 = (-) Negative + PIN 3 = (+) Positive = Open

B = Volt free contact, plug

PIN 1 / PIN 2 = Close

PIN 1 / PIN 3 = Open



2 WIRES ON-OFF

A = Power supply plug

A: VDC 2 WIRES (Grey plug)

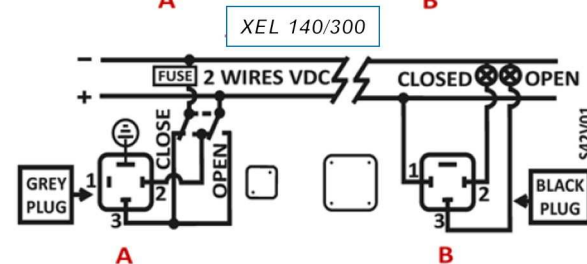
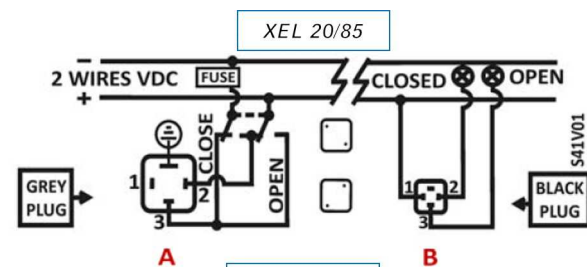
PIN 2 = (+) Positive + PIN 3 = (-) Negative = Close

PIN 2 = (-) Negative + PIN 3 = (+) Positive = Open

B = Volt free contact, plug

PIN 1 / PIN 2 = Close

PIN 1 / PIN 3 = Open



POSITIONER

A = Power supply plug

A: VAC 2 WIRES (Grey plug)

PIN 1 = Neutral + PIN 2 = Phase = Power supply plug

A: VDC 2 WIRES (Grey plug)

PIN 1 = (-) Negative + PIN 2 = (+) Positive = Power supply plug

plug

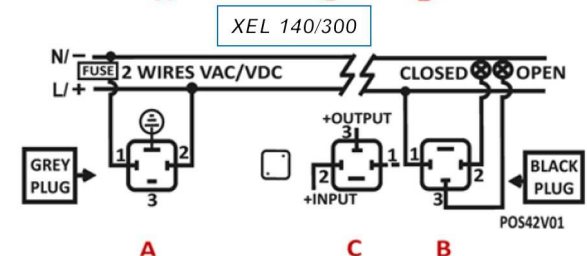
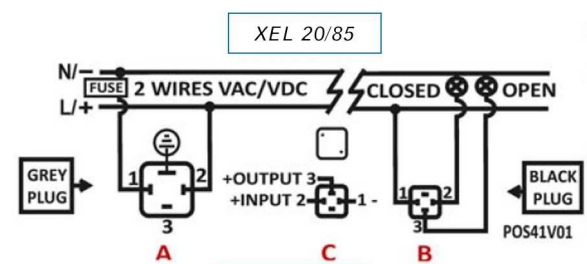
B = Volt free contact plug

PIN 1 / PIN 2 = Close

PIN 1 / PIN 3 = Open

C = Instrumentation signal

C: input signal: 4/20 mA or 0/10 V



PIN 1 = (-) Negative + PIN 2 = (+) Positive = Input signal

PIN 1 = (-) Negative + PIN 3 = (+) Positive = Output signal



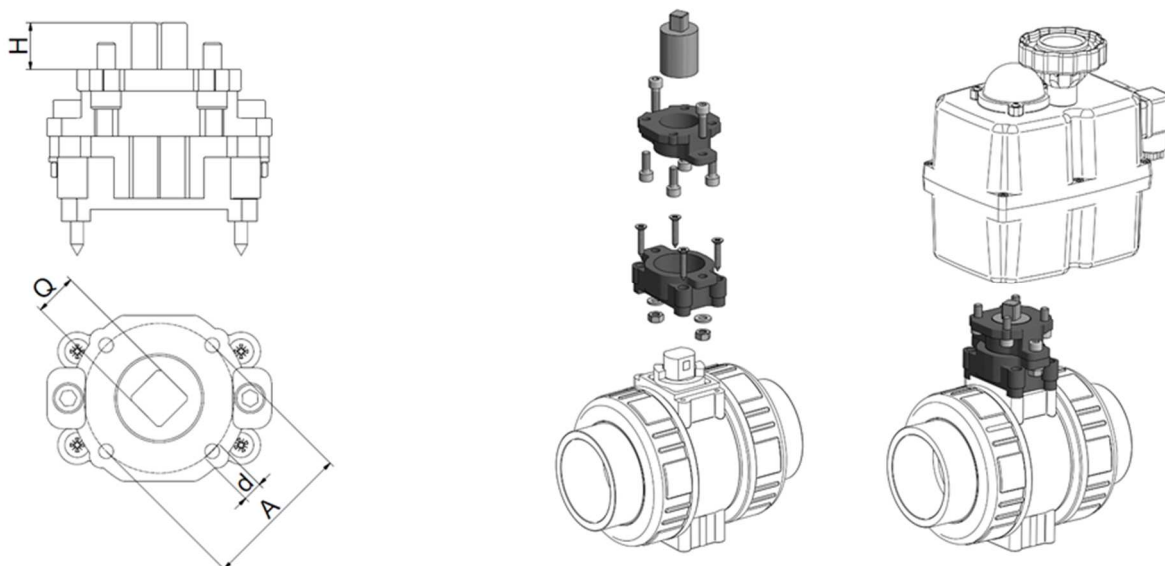
Instrumentation Signal
NO VOLTAGE

Electric actuator Attuatore elettrico

Actuation and fastening / Attuazione e fissaggio

BK1 ball valve can be actuated with standard electric or pneumatic actuators using the dedicated kit (ref. code BDRKITB1). The mounting flange is drilled according to standard ISO 5211.

La valvola a sfera BK1 può essere automatizzata mediante attuatore elettrico o pneumatico usando il kit dedicato (rif. codice BDRKITB1). La flangia di accoppiamento è forata secondo lo standard ISO 5211.



DN	d (mm)	d (in)	ISO 5211	A	d	Q	H
15	16 - 20	3/8" - 1/2"	F05	50	M6	14*	16
20	25	3/4"	F05	50	M6	14*	16
25	32	1"	F05	50	M6	14*	16
32	40	1"1/4	F05	50	M6	14*	16
40	50	1"1/2	F05	50	M6	14*	16
50	63	2"	F05	50	M6	14*	16
80	75 - 90	2"1/2 - 3"	F07	70	M8	17**	19
100	110	4"	F07	70	M8	17**	19

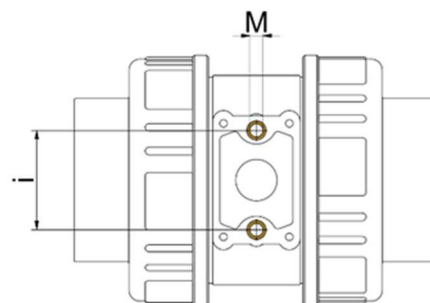
*) Square 11 on request / Quadro 11 a richiesta **) Square 14 on request / Quadro 14 a richiesta

BK1 ball valve¹ is provided with integrated threaded inserts that permit to fasten the valve. For wall installation, a dedicated mounting plate can be used (ref. code BDR1BASE/BDR1BASF).

La valvola a sfera BK1 è dotata di inserti filettati integrati per il fissaggio della valvola. Per installazione a parete, è disponibile la base apposita (rif. codice BDR1BASE/BDR1BASF).

DN	d (mm)	d (in)	i	M
15	16 - 20	3/8" - 1/2"	18	M4 x 8
20	25	3/4"	21,5	M4 x 8
25	32	1"	28	M4 x 8
32	40	1"1/4	30	M5 x 10
40	50	1"1/2	38	M6 x 14
50	63	2"	45	M6 x 14

1) From DN 15 to DN 50 / Da DN 15 a DN 50



Electric actuator

Attuatore elettrico

Factory options / Opzioni di fabbrica

- DPS digital positioner: 4-20 Ma, 2-20 Ma, 0-10 V or 1-10V / *Posizionatore digitale DPS : 4-20 Ma, 2-20 Ma, 0-10 V o 1-10V*
- BSR Battery system returns / *Kit BSR per ritorno automatico alla posizione*
- Digital potentiometer: 1 K, 5 K or 10 K / *Potenzziometro digitale: 1 K, 5 K o 10 K*
- Interface module wired or Wifi / *Collegamento all'interfaccia mediante cavo o Wifi*
- Bluetooth module / *Modulo Bluetooth*
- Other options on request / *Altre opzioni su richiesta*

Self-mounting kits / Kit per il montaggio fai da te

Interface system: Using the interface kit cable we communicate with the actuator, read parameters and change the actuator configuration / **Sistema di interfaccia:** *tramite il cavo del kit di interfaccia si può comunicare con l'attuatore, leggere i parametri e cambiarne la configurazione.*

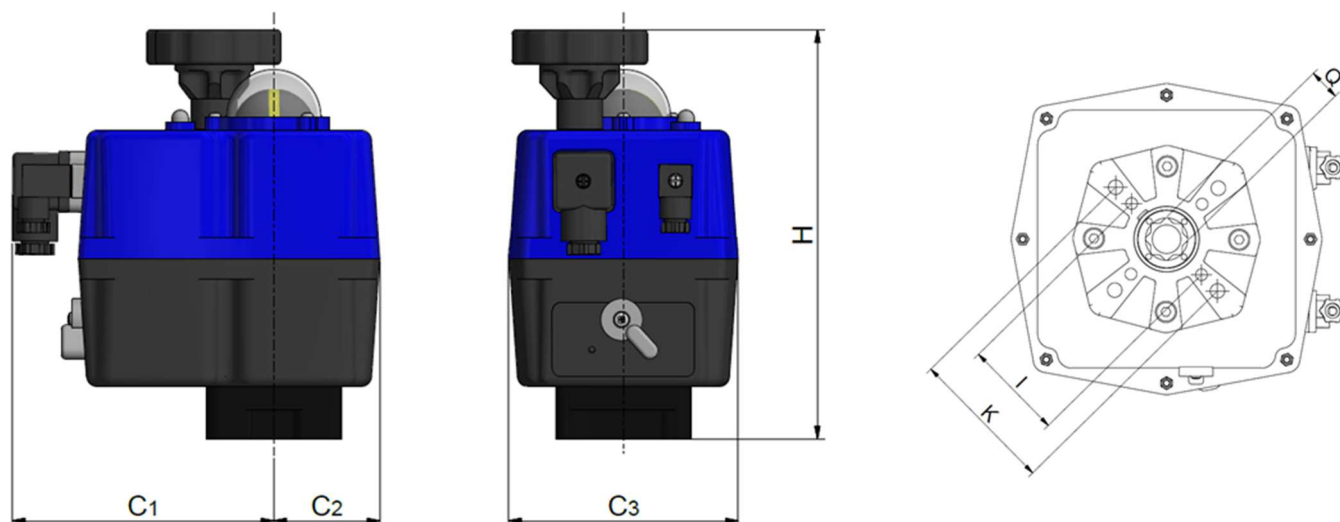
Battery system returns: BSP system for our 20 Nm to 85 Nm models is an emergency fail safe kit system by battery which is common to both L and H models. The BSP system for our models 140 Nm and 300 Nm is the same but with a bigger capacity battery / **Sistema di ritorno automatico alla posizione:** *Il sistema BSR per i motori da 20 a 85 Nm è un kit di emergenza a batteria uguale per i modelli L e H. I nostri motori 140 Nm e 300 Nm montano lo stesso sistema ma con una batteria di capacità superiore.*

Digital Positioner system 20-85 : Digital positioner for our models from 20 Nm to 85 Nm. Instrumentation signal 4-20 mA, 0-20 mA, 0-10 V or 1-10 V signal. The DPS digital positioner is suitable for L and H models / **Posizionatore digitale 20-85:** *Posizionatore digitale per i nostri modelli da 20 Nm a 85 Nm. Segnale di strumentazione 4-20 mA, 0-20 mA, 0-10 V o 1-10 V. Il posizionatore digitale DPS è adatto sia per i modelli L e che per i modelli H.*

Actuation Attuazione

ELECTRIC ACTUATOR MULTI VOLTAGE 24-240 V AC / 24-135 V DC
ATTUATORE ELETTRICO MULTIVOLTAGGIO 24-240 V AC / 24-135 V DC

Rev. Sep 2020



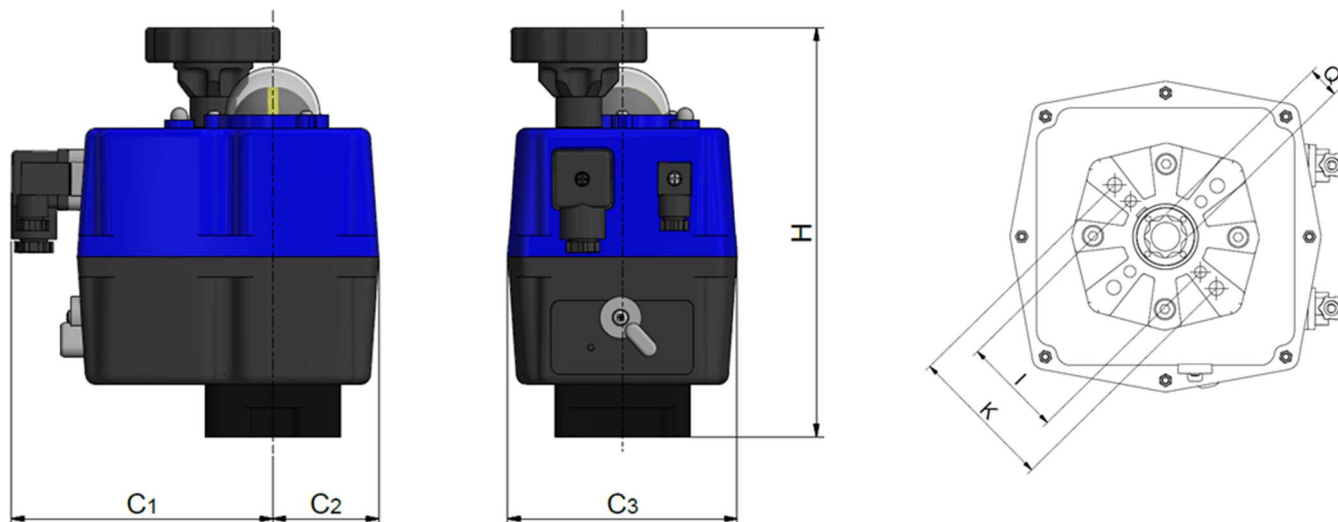
Code	C1	C2	C3	H	Q	Q on request	I	K	ISO 5211	ISO 5211 on request	Weight (g)
XEL090.H020.Q14	130	51	110	169	14	9 / 11	36	50	F03/F04/F05	F05/F07	1800
XEL090.H035.Q14	130	51	110	169	14	9 / 11	36	50	F03/F04/F05	F05/F07	1900
XEL090.H055.Q17	130	51	110	196	17	11 / 14	50	70	F05/F07	-	2400
XEL090.H055.Q14	130	51	110	196	14	9 / 11	50	70	F05/F07	-	2400
XEL090.H085.Q14	130	51	110	196	14	11 / 17	50	70	F05/F07	-	3000
XEL090.H140.Q17	128	107	214	254	17	22	70	102	F07/F10	F12	5200
XEL090.H300.Q22	128	107	214	252	22	17	70	102	F07/F10	F12	5200

Accessories and spare parts

Accessori e ricambi

ELECTRIC ACTUATOR LOW VOLTAGE 12V AC/DC ATTUATORE ELETTRICO BASSO VOLTAGGIO 12V AC/DC

Rev. Jun 2019

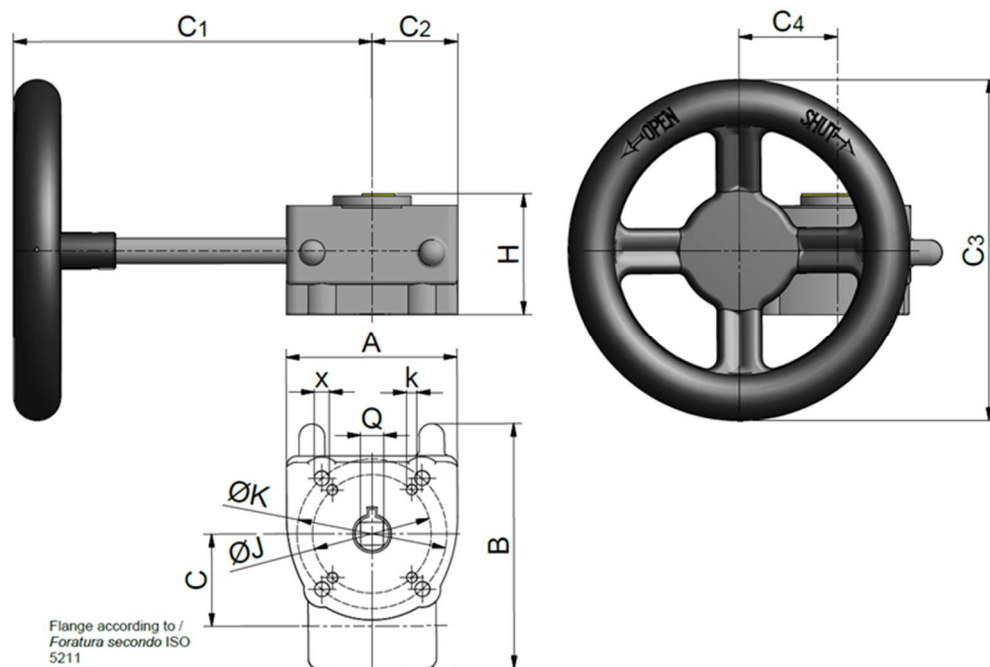


Code	C1	C2	C3	H	Q	Q on request	I	K	ISO 5211	ISO 5211 on request	Weight (g)
XEL090.L020.Q14	130	51	110	169	14	9 / 11	36	50	F03/F04/F05	F05/F07	1800
XEL090.L035.Q14	130	51	110	169	14	9 / 11	36	50	F03/F04/F05	F05/F07	1900
XEL090.L055.Q17	130	51	110	196	17	11 / 14	50	70	F05/F07	-	2400
XEL090.L055.Q14	130	51	110	196	14	9 / 11	50	70	F05/F07	-	2400
XEL090.L085.Q14	130	51	110	196	14	11 / 17	50	70	F05/F07	-	3000
XEL090.L140.Q17	128	107	214	254	17	22	70	102	F07/F10	F12	5200
XEL090.L300.Q22	128	107	214	252	22	17	70	102	F07/F10	F12	5200

Actuation Attuazione

GEAR BOX VOLANTINO

Rev. Oct 2020



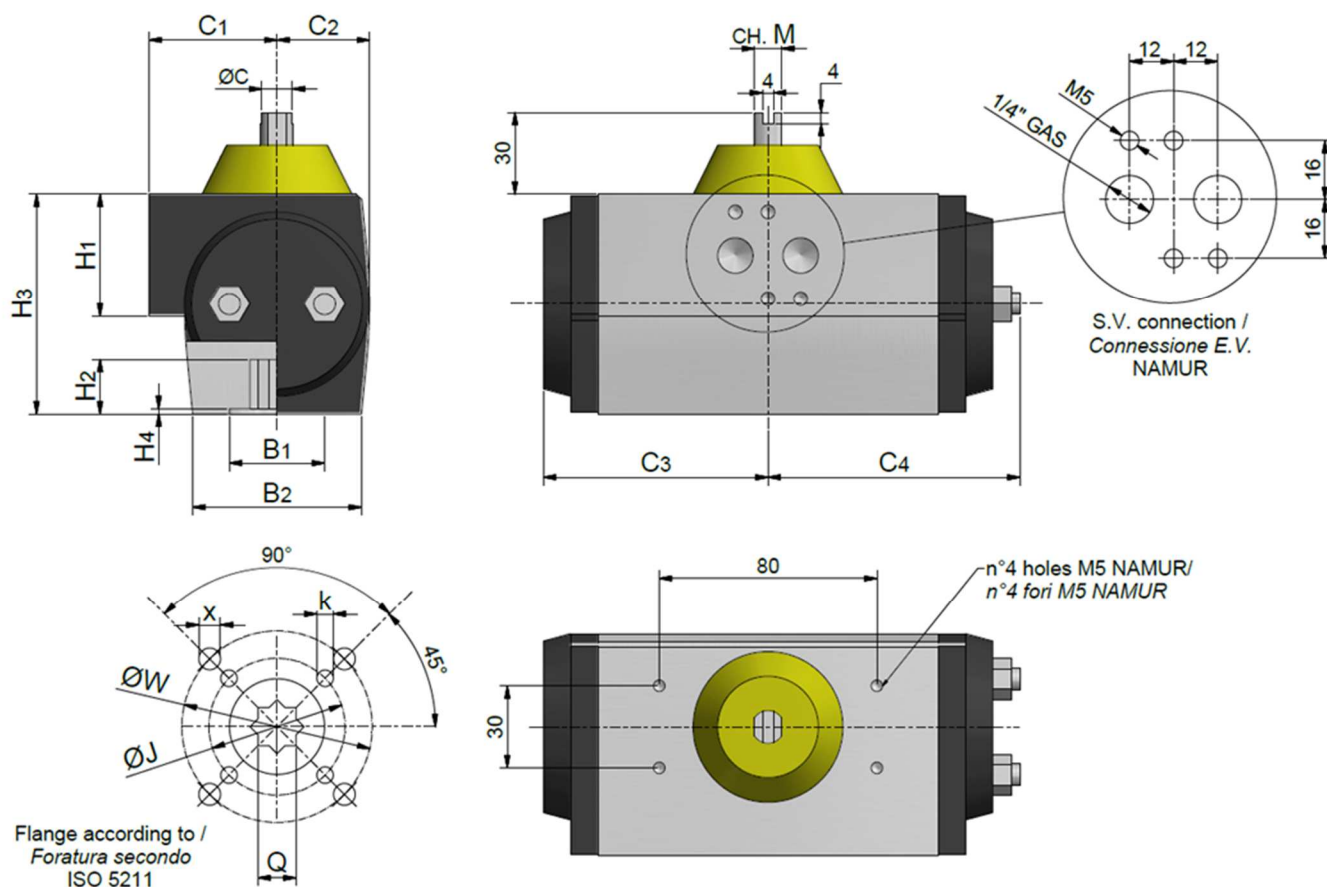
Code	C1	C2	C3	C4	A	B	C	ØW	ØJ	Q	k	x	ISO 5211	Weight (g)
XGEARB0125.Q14.V160	139	56,5	160	42,5	80	114	42,5	50	36	14	M5x9	M6x9	F07	800
XGEARB0250.Q17.V160	189	70	160	42,5	80	114	42,5	70	50	17	M6x9	M8x2	F05-F07	900
XGEARB0500.Q22.V200	207	70	200	50	100	131	50	102	70	27	M8x12	M10x15	F07-F10	1550

Accessories and spare parts

Accessori e ricambi

PNEUMATICALLY ACTUATED – DOUBLE ACTING COMANDO PNEUMATICO – DOPPIO EFFETTO

Rev. Jun 2019



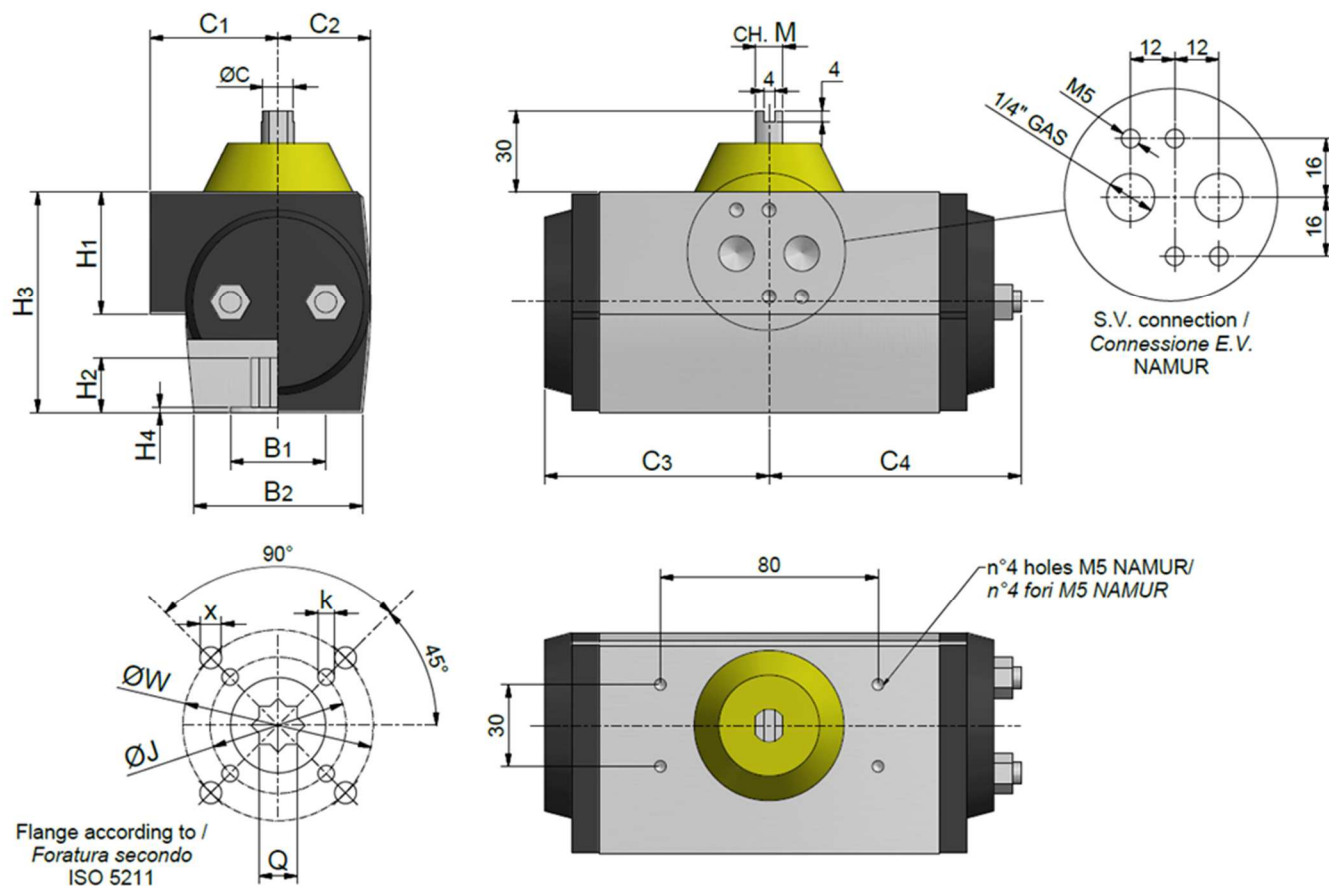
Code	C1	C2	C3	C4	H1	H2	H3	H4	B1	B2	ØW	ØJ	Q	k	x	(g)
XPND090.MT05.Q11	40	27	59,5	60,5	45	12,5	71	1,5	22	47	50	36	11	M5x9	M6x9	910
XPND090.MT17.Q14	47	34	98,5	108,5	45	19	81	2	33	62	70	50	14	M6x9	M8x12	2180
XPND090.MT20.Q17	54	42	88,5	97,5	45	19	98	2	35	76,5	70	50	17	M6x9	M8x12	2150
XPND090.MT30.Q17	62	52	115	126	45	23	117	2	40,5	90,5	70	50	17	M6x9	M8x12	4150
XPND090.MT35.Q22	66	65	123	138	45	30	154	3	40,5	95,5	102	70	22	M8x12	M10x15	6450

Actuation

Attuazione

PNEUMATICALLY ACTUATED – SPRING RETURN COMANDO PNEUMATICO – SEMPLICE EFFETTO

Rev. Oct 2020



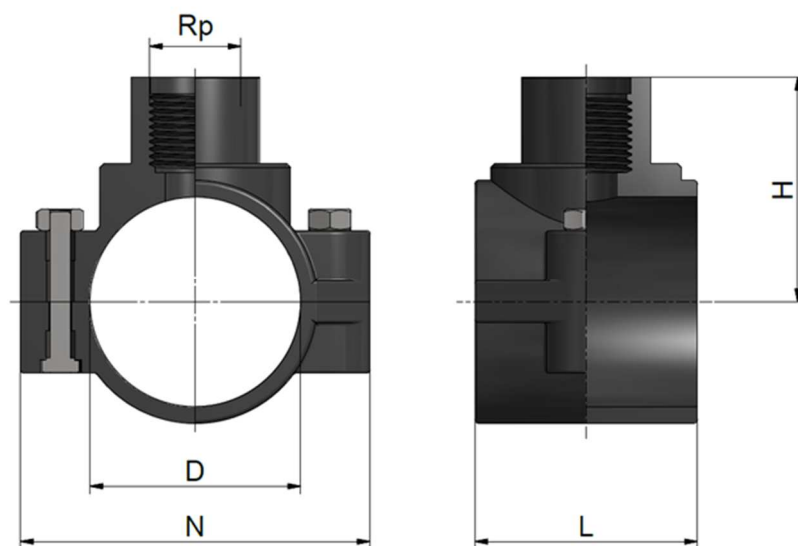
Code	C1	C2	C3	C4	H1	H2	H3	H4	B1	B2	ØW	ØJ	Q	k	x	(g)
XPNS090.MT05.S2.C.Q11	40	27	59,5	60,5	45	12,5	71	1,5	22	47	50	36	11	M5x9	M6x9	990
XPNS090.MT07.S4.C.Q11	41	29	80	98	43	15	68	1,5	26	52,5	50	36	11	M5x8	M6x10	1360
XPNS090.MT15.S4.C.Q14	47	34	82,5	92,5	45	19	81	2	33	62	70	50	14	M6x9	M8x12	1690
XPNS090.MT17.S5.C.Q14	47	34	98,5	108,5	45	19	81	2	33	62	70	50	14	M6x9	M8x12	2420
XPNS090.MT25.S5.C.Q17	54	42	119,5	128,5	45	23	98	2	40,5	76,5	70	50	17	M6x9	M8x12	3770
XPNS090.MT30.S5.C.Q17	62	52	115	126	45	23	117	2	40,5	90,5	70	50	17	M6x9	M8x12	4880
XPNS090.MT45.S4.C.Q22	73	72	175,5	191,5	45	30	168,5	3	56,5	98,5	102	70	22	M8x12	M10x15	13210
XPNS090.MT50.S4.C.Q27	91	90	180,5	200	45	31	202	3	54,5	124,5	125	102	27	M10x15	M12x18	21000

PP Clamp saddles

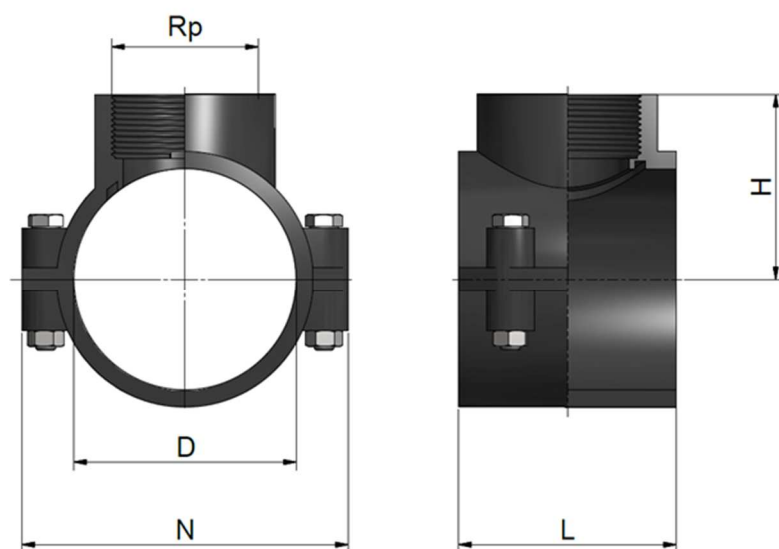
PP Prese a staffa

BSPP FEMALE THREADED FILETTATA BSPP FEMMINA

Rev. Jun 2019



Code	D	Rp	N	L	H	Weight (g)
SEP010020B	20	1/2"	66	44	35	63
SEP010025B	25	1/2"	66	44	35	58
SEP010025C	25	3/4"	66	44	35	58
SEP010032B	32	1/2"	84	51	40	114
SEP010032C	32	3/4"	84	51	40	114
SEP010032D	32	1"	84	51	40	114
SEP010040B	40	1/2"	84	51	47	121
SEP010040C	40	3/4"	84	51	47	121
SEP010040D	40	1"	84	51	47	121
SEP010050B	50	1/2"	83	53	54	120
SEP010050C	50	3/4"	83	53	54	120
SEP010050D	50	1"	83	53	54	120



Code	D	Rp	N	L	H	Weight (g)
SEP010063B	63	1/2"	97	68	58	241
SEP010063C	63	3/4"	97	68	58	241
SEP010063D	63	1"	97	68	58	253
SEP010063E	63	1"1/4	97	68	62	243
SEP010063F	63	1"1/2	97	68	61	243
SEP010075B	75	1/2"	110	68	65	313
SEP010075C	75	3/4"	110	68	65	313
SEP010075D	75	1"	110	68	63	313
SEP010075E	75	1"1/4	110	68	64	296
SEP010075F	75	1"1/2	110	68	68	296
SEP010075G	75	2"	110	68	68	270
SEP010090B	90	1/2"	127	88	71	370
SEP010090C	90	3/4"	127	88	71	390
SEP010090D	90	1"	126	88	75	700
SEP010090E	90	1"1/4	127	88	75	390
SEP010090F	90	1"1/2	126	88	88	390
SEP010090G	90	2"	127	88	75	310
SEP010110B	110	1/2"	140	98	86	600
SEP010110C	110	3/4"	140	98	86	420
SEP010110D	110	1"	142	98	86	420
SEP010110E	110	1"1/4	140	98	86	420
SEP010110F	110	1"1/2	140	98	86	750
SEP010110G	110	2"	142	98	87	750
SEP010110H	110	2"1/2	162	107	100	470
SEP010110I	110	3"	162	107	102	470

Code	D	Rp	N	L	H	Weight (g)
SEP010125B	125	1/2"	164	120	95	740
SEP010125C	125	3/4"	164	120	95	740
SEP010125D	125	1"	164	120	95	740
SEP010125E	125	1"1/4	164	120	95	740
SEP010125F	125	1"1/2	164	120	95	740
SEP010125G	125	2"	164	120	95	740
SEP010125H	125	2"1/2	164	120	95	1233
SEP010125I	125	3"	164	120	95	1233
SEP010140C	140	3/4"	202	116	112	873
SEP010140D	140	1"	202	116	112	873
SEP010140E	140	1"1/4	202	116	112	873
SEP010140F	140	1"1/2	202	116	112	873
SEP010140G	140	2"	202	116	112	873
SEP010140I	140	3"	202	116	112	813
SEP010140L	140	4"	202	116	112	813
SEP010160B	160	1/2"	202	116	112	985
SEP010160C	160	3/4"	202	116	112	985
SEP010160D	160	1"	202	116	112	985
SEP010160E	160	1"1/4	202	116	112	985
SEP010160F	160	1"1/2	202	116	112	985
SEP010160G	160	2"	202	116	112	894
SEP010160H	160	2"1/2	202	116	112	894
SEP010160I	160	3"	202	116	112	894
SEP010160L	160	4"	202	116	112	894
SEP010200D	200	1"	270	195	252	2065
SEP010200E	200	1"1/4	270	195	247	2065
SEP010200F	200	1"1/2	270	195	243	2030
SEP010200G	200	2"	270	195	246	2035
SEP010200I	200	3"	270	195	252	2073
SEP010200L	200	4"	270	195	255,5	2080
SEP010225B	225	3/4"	300	195	267	2160
SEP010225D	225	1"	300	195	267	2160
SEP010225E	225	1"1/4	286	195	273	2712
SEP010225F	225	1"1/2	286	195	274,5	2164
SEP010225G	225	2"	289	195	271	2197
SEP010225I	225	3"	302	195	279	2228
SEP010225L	225	4"	300	195	280	2220
SEP010250D	250	1"	322	242	294,5	2712
SEP010250E	250	1"1/4	324	244	295,5	2712
SEP010250F	250	1"1/2	322	242	294,5	2712

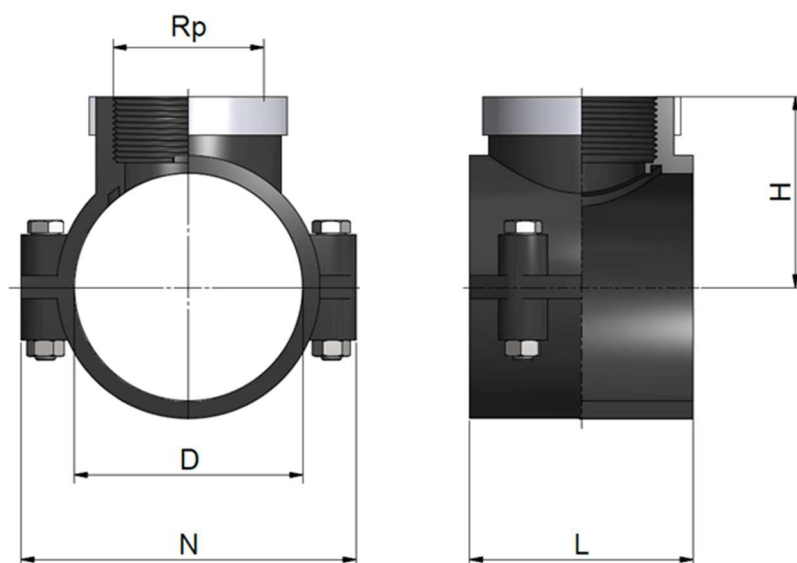
Code	D	Rp	N	L	H	Weight (g)
SEP010250G	250	2"	331	244	295,5	2713
SEP010250I	250	3"	339	243	298	2750
SEP010250L	250	4"	327	243	298	2765
SEP010315D	315	1"	392	244	373,5	4005
SEP010315E	315	1"1/4	392	244	373,5	4010
SEP010315F	315	1"1/2	392	244	373,5	4020
SEP010315G	315	2"	396	244	375,5	4050
SEP010315I	315	3"	394	244	380,5	4065
SEP010315L	315	4"	401	244	384,5	4125

PP Clamp saddles

PP Prese a staffa

BSPP FEMALE THREADED WITH SS REINFORCING RING FILETTATA BSPP FEMMINA CON ANELLO DI RINFORZO INOX

Rev. Oct 2019



Code	D	Rp	N	L	H	Weight (g)
SEP011063D	63	1"	97	68	58	253
SEP011063E	63	1"1/4	97	68	62	243
SEP011063F	63	1"1/2	97	68	61	243
SEP011075B	75	1/2"	110	68	65	313
SEP011075C	75	3/4"	110	68	65	313
SEP011075D	75	1"	110	68	63	313
SEP011075E	75	1"1/4	110	68	64	296
SEP011075F	75	1"1/2	110	68	68	296
SEP011075G	75	2"	110	68	68	270
SEP011090B	90	1/2"	127	88	71	370
SEP011090C	90	3/4"	127	88	71	390
SEP011090D	90	1"	126	88	75	700
SEP011090E	90	1"1/4	127	88	75	390
SEP011090F	90	1"1/2	126	88	88	390
SEP011090G	90	2"	127	88	75	310
SEP011110B	110	1/2"	140	98	86	600
SEP011110C	110	3/4"	140	98	86	420
SEP011110D	110	1"	142	98	86	420
SEP011110E	110	1"1/4	140	98	86	420
SEP011110F	110	1"1/2	140	98	86	750

Code	D	Rp	N	L	H	Weight (g)
SEP011110G	110	2"	142	98	87	750
SEP011110H	110	2"1/2	162	107	100	470
SEP011110I	110	3"	162	107	102	470
SEP011125B	125	1/2"	164	120	95	740
SEP011125C	125	3/4"	164	120	95	740
SEP011125D	125	1"	164	120	95	740
SEP011125E	125	1"1/4	164	120	95	740
SEP011125F	125	1"1/2	164	120	95	740
SEP011125G	125	2"	164	120	95	740
SEP011125H	125	2"1/2	164	120	95	1233
SEP011125I	125	3"	164	120	95	1233
SEP011140C	140	3/4"	202	116	112	873
SEP011140D	140	1"	202	116	112	873
SEP011140E	140	1"1/4	202	116	112	873
SEP011140F	140	1"1/2	202	116	112	873
SEP011140G	140	2"	202	116	112	873
SEP011140I	140	3"	202	116	112	813
SEP011140L	140	4"	202	116	112	813
SEP011160B	160	1/2"	202	116	112	985
SEP011160C	160	3/4"	202	116	112	985
SEP011160D	160	1"	202	116	112	985
SEP011160E	160	1"1/4	202	116	112	985
SEP011160F	160	1"1/2	202	116	112	985
SEP011160G	160	2"	202	116	112	894
SEP011160H	160	2"1/2	202	116	112	894
SEP011160I	160	3"	202	116	112	894
SEP011160L	160	4"	202	116	112	894
SEP011200D	200	1"	270	195	252	2065
SEP011200E	200	1"1/4	270	195	247	2065
SEP011200F	200	1"1/2	270	195	243	2030
SEP011200G	200	2"	270	195	246	2035
SEP011200I	200	3"	270	195	252	2073
SEP011200L	200	4"	270	195	255,5	2080
SEP011225B	225	3/4"	300	195	267	2160
SEP011225D	225	1"	300	195	267	2160
SEP011225E	225	1"1/4	286	195	273	2712
SEP011225F	225	1"1/2	286	195	274,5	2164
SEP011225G	225	2"	289	195	271	2197
SEP011225I	225	3"	302	195	279	2228
SEP011225L	225	4"	300	195	280	2220
SEP011250D	250	1"	322	242	294,5	2712
SEP011250E	250	1"1/4	324	244	295,5	2712

Code	D	Rp	N	L	H	Weight (g)
SEP011250G	250	2"	331	244	295,5	2713
SEP011250I	250	3"	339	243	298	2750
SEP011250L	250	4"	327	243	298	2765
SEP011315D	315	1"	392	244	373,5	4005

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