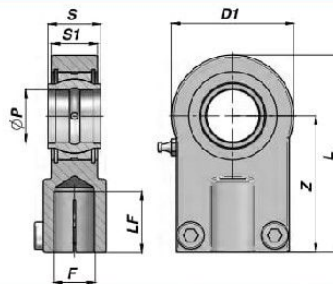


TABLEAU COMPARATIF ROTULES "GE"
CROSS REFERENCE SPHERICAL PLAIN BEARINGS

CONTARINI	SKF	INA	International Reference
CSTS ... C	SC ... ES	GK ... DO	-
CSTS ... N	SCF ... EF	GF ... DO	-
CSTSCE ... N	-	-	-
CSTAPR ... CE	SIQG ... ES	GIHNRK ... LO	-
CSTAPR ... U	SIR ... ES	GIHRK ... DO	-
CSTAPR ... N	-	-	-
CSTAPR ... UGAS	-	-	-
CSTAPR ... S	SIJ ... ES	-	-
CSTFE ... DO / ... DO2RS	SI ... E (6÷12) - SI ... ES (15÷30) - SIA ... ES-2RS (35÷80)	GAR ... DO / GAR ... DO-2RS	-
CSTFI ... DO / ... DO2RS	SA ... E (6÷12) - SA ... ES (15÷30) - SAA ... ES-2RS (35÷80)	GIR ... DO / GIR ... DO-2RS	-
CSTFE ... UK / ... UK2RS	SA ... C - SAA ... TXE-2LS	GAR ... UK / GAR ... UK-2RS	-
CSTFI ... UK / ... UK2RS	SI ... C - SIA ... TXE-2LS	GIR ... UK / GIR ... UK-2RS	-
CSTFE ... PB	SAKAC ... M	GAKR ... PB	-
CSTFI ... PB	SIKAC ... M	GIKR ... PB	-
CSTFE ... PW	SAKB ... F	GAKR ... PW	-
CSTFI ... PW	SIKB ... F	GIKR ... PW	-

CSTAPR...CE

EMBOUIT A ROTULE
BALL-JOINT END WITH GREASE NIPPLE

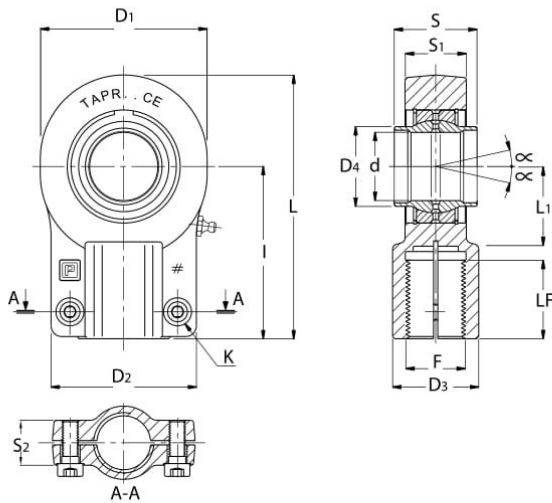


Code Code	ØP	Z	S	D1 max	S1 max	L	F	LF min	FC (kN)	kg
*CSTAPR612C	12	38	12	33.0	11.0	54	M12x1,25	17	10.8	0,11
CSTAPR616C	16	44	16	41.0	14.0	64	M14x1,5	19	17.6	0,20
CSTAPR620C	20	52	20	48.0	17.5	77	M16x1,5	23	30.0	0,35
CSTAPR625C	25	65	25	59.5	22.0	96	M20x1,5	29	48.0	0,62
CSTAPR632C	32	80	32	72.0	28.0	118	M27x2	37	67.0	1,15
CSTAPR640C	40	97	40	91.5	34.0	146	M33x2	46	100.0	2,18
CSTAPR650C	50	120	50	110.5	42.0	179	M42x2	57	156.0	3,96
CSTAPR663C	63	140	63	137.5	53.5	213	M48x2	64	255.0	6,80
CSTAPR670C (**)(A)	70	160	70	158.0	58.0	245	M56x2	76	315.0	9,60
CSTAPR680C (**)	80	180	80	171.5	68.0	270	M64x3	86	400.0	13,00
CSTAPR690C (**)(A)	90	195	90	187.0	73.0	296	M72x3	91	490.0	19,10
CSTAPR695C (**)	100	210	100	212.5	85.5	322	M80x3	96	610.0	25,00
CSTAPR696C (**)(A)	110	235	110	237.0	89.0	364	M90x3	106	655.0	32,00
CSTAPR697C (**)	125	260	125	268.0	105.0	406,5	M100x3	113	950.0	46,00

FC = CHARGE DYN. MAXI - MAX DYNAMIC LOAD
(A) = SANS NORME - OUT OF RULE

* = SANS GRAISSEUR - WITHOUT GREASE NIPPLE

MATERIEL : ACIER DIN 24338 - ISO 6982 - ISO 8132 - (**)= FONTE SPHEROIDALE
MATERIAL : STEEL DIN 24338 - ISO 6982 - ISO 8132 - (**)= NODULAR CAST IRON



TAPR...CE

BALL JOINT ENDS

DIN 24338 - ISO 6982
WITH GREASE NIPPLE
COUPLING: STEEL/STEEL



ARTICLE (*)	d	TOLERANCES		S	D4	I	D1	D2	S1	S2	L	L1	D3	LF	F	LOAD FACTORS		RADIAL CLEARANCE	SWINGING ANGLE α	SCREW K UNI 5931	SCREWS CLOSING COUPLE Nm	WEIGHT Kg.
		d	S													Dynamic C_c	Static C_o					
TAPR 12 CE (1)	12	0 ÷ +0.018	0 ÷ -0.18	12	15.5	38	32	32	11	15	54	14	16	17	M12 X1.25	10.8	24.5	0.023 - 0.068	4	M 5X16	6	0.11
TAPR 16 CE	16	0 ÷ +0.018	0 ÷ -0.18	16	20	44	40	40	13	15	64	20	21	19	M14 X1.5	17.6	36.5	0.030 - 0.082	4	M 6X14	10	0.20
TAPR 20 CE	20	0 ÷ +0.021	0 ÷ -0.21	20	25	52	47	47	17	19	75	22	25	23	M16 X1.5	30	48	0.030 - 0.082	4	M 8X20	25	0.35
TAPR 25 CE	25	0 ÷ +0.021	0 ÷ -0.21	25	30.5	65	58	54	22	19	96	27	30	29	M20 X1.5	48	78	0.037 - 0.100	4	M 8X20	25	0.62
TAPR 32 CE	32	0 ÷ +0.025	0 ÷ -0.25	32	38	80	71	66	28	22	118	32	38	37	M27 X2	67	114	0.037 - 0.100	4	M10X25	49	1.15
TAPR 40 CE	40	0 ÷ +0.025	0 ÷ -0.25	40	46	97	90	80	33	26	146	41	47	46	M33 X2	100	204	0.043 - 0.120	4	M10X30	49	2.18
TAPR 50 CE	50	0 ÷ +0.025	0 ÷ -0.25	50	57	120	109	96	41	32	179	50	58	57	M42 X2	156	310	0.043 - 0.120	4	M12X35	86	3.96
TAPR 63 CE	63	0 ÷ +0.030	0 ÷ -0.30	63	71.5	140	136	114	53	38	211	62	70	64	M48 X2	255	430	0.055 - 0.142	4	M16X40	210	6.80
TAPR 70 CE (2)	70	0 ÷ +0.030	0 ÷ -0.30	70	79	160	155	135	57	42	245	70	80	76	M56 X2	315	540	0.055 - 0.142	4	M16X40	210	9.60
TAPR 80 CE (2)	80	0 ÷ +0.030	0 ÷ -0.30	80	91	180	170	148	67	48	270	78	90	86	M64 X3	400	695	0.055 - 0.142	4	M20X50	410	13.00
TAPR 90 CE (2)	90	0 ÷ +0.035	0 ÷ -0.35	90	99	195	185	160	72	52	296	85	100	91	M72 X3	490	750	0.055 - 0.142	4	M20X60	410	19.10
TAPR 100 CE (2)	100	0 ÷ +0.035	0 ÷ -0.35	100	113	210	211	178	85	62	322	98	110	96	M80 X3	610	1060	0.065 - 0.165	4	M24X60	710	25.00
TAPR 110 CE (2)	110	0 ÷ +0.035	0 ÷ -0.35	110	124	235	235	190	88	62	364	105	125	106	M90 X3	655	1200	0.065 - 0.165	4	M24X60	710	32.00
TAPR 125 CE (2)	125	0 ÷ +0.040	0 ÷ -0.40	125	138	260	265	200	103	72	405	120	135	113	M100X3	950	1430	0.065 - 0.165	4	M24X70	710	46.00
TAPR 160 CE (2)	160	0 ÷ +0.040	0 ÷ -0.40	160	177	310	326	250	130	82	488	150	165	126	M125X4	1370	2200	0.065 - 0.192	4	M24X80	710	82.50
TAPR 200 CE (2)	200	0 ÷ +0.046	0 ÷ -0.46	200	221	390	418	320	162	102	620	195	215	161	M160X4	2120	3650	0.065 - 0.192	4	M30X100	1500	168.00

(1) Non lubricatable

(2) Material: nodular cast iron.

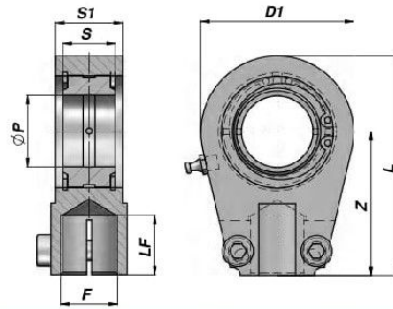
(*) When requiring a left-end threading, replace on the article code the letter "R" with "L", e.g. TAPL...N. Availability and prices upon request.

Possible to supply special rod ends with maintenance free spherical bearing.

(See the spherical bearings catalogue for series : SRB, SRT...-2RS, SRLB, SRLT...-2RS, SR...TGR, SR...TG3A...-2RS). These articles are available without grease nipples or lubrication holes.

EMBOU A ROTULE
BALL-JOINT END WITH GREASE NIPPLE

CSTAPR..U



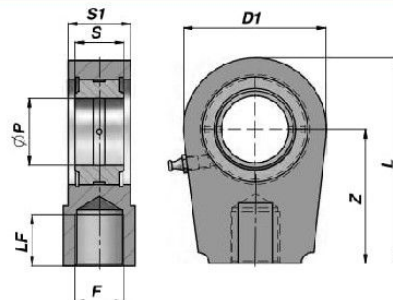
Code Code	ØP	Z	S	D1 max	S1 max	L	F	LF min	FC (kN)	kg
CSTAPR020U	20	50	16	58.0	19.0	80	M16x1.5	17	30	0,44
CSTAPR025U	25	50	20	58.0	23.5	80	M16x1.5	17	48	0,47
CSTAPR030U	30	60	22	66.0	28.5	94	M22x1.5	23	62	0,77
CSTAPR035U	35	70	25	80.0	30.5	112	M28x1.5	29	80	1,24
CSTAPR040U	40	85	28	96.0	35.5	135	M35x1.5	36	100	2,12
CSTAPR050U	50	105	35	118.0	40.5	168	M45x1.5	46	156	3,74
CSTAPR060U	60	130	44	132.0	50.5	200	M58x1.5	59	245	6,49
CSTAPR070U	70	150	49	157.0	55.5	232	M65x1.5	66	315	9,88
CSTAPR080U	80	170	55	179.0	60.5	265	M80x2	81	400	14,20
CSTAPR090U (**)	90	210	60	208.0	65.5	322	M100x2	101	490	20,00
CSTAPR100U (**)	100	235	70	233.5	70.5	360	M110x2	111	610	27,50
CSTAPR110U (**)	110	265	70	268.0	80.5	407,5	M120x3	125	655	45,60
CSTAPR120U (**)	120	310	85	345.0	90.5	490	M130x3	135	950	72,00

FC = CHARGE DYN. MAXI - MAX DYNAMIC LOAD

MATERIEL : ACIER ISO 12240-1 SERIE W - (**)= FONTE SPHEROIDALE
MATERIAL : STEEL ISO 12240-1 SERIES W - (**)= NODULAR CAST IRON

EMBOU A ROTULE
BALL-JOINT END WITH GREASE NIPPLE

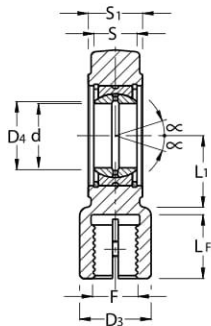
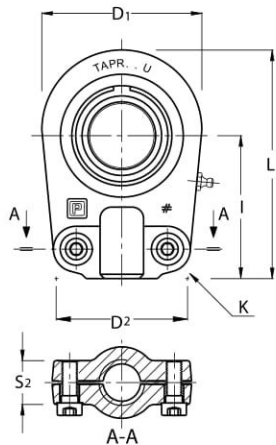
CSTAPR..N



Code Code	ØP	Z	S	D1 max	S1 max	L	F	LF min	FC (kN)	kg
CSTAPR020N	20	50	16	58.0	19.0	80	M16x1.5	17	30	0,45
CSTAPR025N	25	50	20	58.0	23.5	80	M16x1.5	17	48	0,49
CSTAPR030N	30	60	22	66.0	28.5	94	M22x1.5	23	62	0,76
CSTAPR035N	35	70	25	80.0	30.5	112	M28x1.5	29	80	1,26
CSTAPR040N	40	85	28	96.0	35.5	135	M35x1.5	36	100	2,15
CSTAPR050N	50	105	35	118.0	40.5	168	M45x1.5	46	156	3,80
CSTAPR060N	60	130	44	132.0	50.5	200	M58x1.5	59	245	6,20
CSTAPR070N	70	150	49	157.0	55.5	232	M65x1.5	66	315	9,83
CSTAPR080N	80	170	55	179.0	60.5	265	M80x2	81	400	13,97
CSTAPR090N (**)	90	210	60	208.0	65.5	322	M100x2	101	490	23,50
CSTAPR100N (**)	100	235	70	233.5	70.5	360	M110x2	111	610	32,00
CSTAPR110N (**)	110	265	70	268.0	80.5	407	M120x3	125	655	41,00
CSTAPR120N (**)	120	310	85	345.0	90.5	490	M130x3	135	950	72,00

FC = CHARGE DYN. MAXI - MAX DYNAMIC LOAD

MATERIEL : ACIER ISO 12240-1 SERIE E - (**)= FONTE SPHEROIDALE
MATERIAL : STEEL ISO 12240-1 SERIES E - (**)= NODULAR CAST IRON



TAPR...U

BALL JOINT ENDS

WITH GREASE NIPPLE
COUPLING: STEEL/STEEL



ARTICLE (*)	d	TOLERANCES		S	D4	I	D1	D2	S1	S2	L	L1	D3	LF	F	LOAD FACTORS		RADIAL CLEARANCE	SWINGING ANGLE α	SCREW K UNI 5931	SCREWS CLOSING COUPLE Nm	WEIGHT Kg.
		d	S													Dynamic C	Static Co					
TAPR 20 U	20	0+-0.010	0+-0.12	16	24.1	50	56	46	19	17	80	25	25	17	M 16X1,5	30	81.1	0.030-0.082	9	M 8X18	25	0.44
TAPR 25 U	25	0+-0.010	0+-0.12	20	29.3	50	56	46	23	21	80	28	25	17	M 16X1.5	48	72	0.037-0.100	7	M 8X20	25	0.47
TAPR 30 U	30	0+-0.010	0+-0.12	22	34.2	60	64	50	28	26	94	30	32	23	M 22X1.5	62	106	0.037-0.100	6	M 8X25	25	0.77
TAPR 35 U	35	0+-0.012	0+-0.12	25	39.7	70	78	66	30	28	112	38	40	29	M 28X1.5	80	153	0.037-0.100	6	M10X30	49	1.24
TAPR 40 U	40	0+-0.012	0+-0.12	28	45	85	94	76	35	33	135	45	49	36	M 35X1.5	100	250	0.043-0.120	7	M10X35	49	2.12
TAPR 50 U	50	0+-0.012	0+-0.12	35	56	105	116	90	40	37	168	55	61	46	M 45X1.5	156	365	0.043-0.120	6	M12X40	86	3.74
TAPR 60 U	60	0+-0.015	0+-0.15	44	66.8	130	130	120	50	46	200	65	75	59	M 58X1.5	245	400	0.043-0.120	6	M16X45	210	6.49
TAPR 70 U	70	0+-0.015	0+-0.15	49	77.8	150	154	130	55	51	232	75	86	66	M 65X1.5	315	540	0.055-0.142	6	M16X50	210	9.88
TAPR 80 U	80	0+-0.015	0+-0.15	55	89.4	170	176	160	60	55	265	80	105	81	M 80X2	400	670	0.055-0.142	6	M20X55	410	14.20
TAPR 90 U (1)	90	0+-0.012	0+-0.20	60	98.1	210	206	180	65	60	322	90	124	101	M100X2	490	980	0.055-0.142	5	M20X60	410	20.00
TAPR 100 U (1)	100	0+-0.012	0+-0.20	70	109.5	235	231	200	70	65	360	105	138	111	M110X2	610	1120	0.065-0.165	7	M24X65	710	27.50
TAPR 110 U (1)	110	0+-0.012	0+-0.20	70	121.2	265	266	220	80	74	407.5	115	152	125	M120X3	655	1700	0.065-0.165	6	M24X80	710	45.60
TAPR 120 U (1)	120	0+-0.012	0+-0.20	85	135.5	310	340	257	90	84	490	140	172	135	M130X3	950	2900	0.065-0.165	6	M24X85	710	72.00

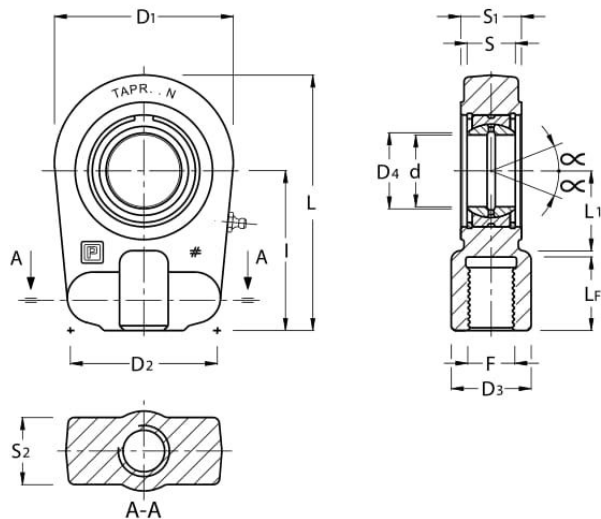
(1) Material: nodular cast iron.

(*) Also suppliable in the spherical ball joint version with 2RS. Availability and prices upon request.

(*) When requiring a left-end threading, replace on the article code the letter "R" with "L", e.g. TAPL...N. Availability and prices upon request.

Possible to supply special rod ends with maintenance free spherical bearing.

(See the spherical bearings catalogue for series : SRB, SRT...-2RS, SRLB, SRLT...-2RS, SR...TGR, SR...TG3A...-2RS). These articles are available without grease nipples or lubrication holes.



TAPR...N

BALL JOINT ENDS

WITH GREASE NIPPLE
COUPLING: STEEL/STEEL



ARTICLE (*)	d	TOLERANCES		S	D4	I	D1	D2	S1	S2	L	L1	D3	LF	F	LOAD FACTORS		RADIAL CLEARANCE	SWINGING ANGLE α	WEIGHT Kg.
		d	S													Dynamic C	Static C_0			
mm.																KN	mm.	degree		
TAPR 20 N	20	0 ÷ -0.010	0 ÷ -0.12	16	24.1	50	56	46	19	17	80	25	25	17	M 16X1,5	30	81.1	0.030 - 0.082	0.45	9
TAPR 25 N	25	0 ÷ -0.010	0 ÷ -0.12	20	29.3	50	56	46	23	21	80	28	25	17	M 16X1.5	48	72	0.037 - 0.100	0.49	7
TAPR 30 N	30	0 ÷ -0.010	0 ÷ -0.12	22	34.2	60	64	50	28	26	94	30	32	23	M 22X1.5	62	106	0.037 - 0.100	0.76	6
TAPR 35 N	35	0 ÷ -0.012	0 ÷ -0.12	25	39.7	70	78	66	30	28	112	38	40	29	M 28X1.5	80	153	0.037 - 0.100	1.26	6
TAPR 40 N	40	0 ÷ -0.012	0 ÷ -0.12	28	45	85	94	76	35	33	135	45	49	36	M 35X1.5	100	250	0.043 - 0.120	2.15	7
TAPR 50 N	50	0 ÷ -0.012	0 ÷ -0.12	35	56	105	116	90	40	37	168	55	61	46	M 45X1.5	156	365	0.043 - 0.120	3.80	6
TAPR 60 N	60	0 ÷ -0.015	0 ÷ -0.15	44	66.8	130	130	120	50	46	200	65	75	59	M 58X1.5	245	400	0.043 - 0.120	6.20	6
TAPR 70 N	70	0 ÷ -0.015	0 ÷ -0.15	49	77.8	150	154	130	55	51	232	75	86	66	M 65X1.5	315	540	0.055 - 0.142	9.83	6
TAPR 80 N	80	0 ÷ -0.015	0 ÷ -0.15	55	89.4	170	176	160	60	55	265	80	105	81	M 80X2	400	670	0.055 - 0.142	13.97	6
TAPR 90 N (1)	90	0 ÷ -0.020	0 ÷ -0.20	60	98.1	210	206	180	65	60	322	90	124	101	M100X2	490	980	0.055 - 0.142	23.50	5
TAPR 100 N (1)	100	0 ÷ -0.020	0 ÷ -0.20	70	109.5	235	231	200	70	65	360	105	138	111	M110X2	610	1120	0.065 - 0.165	32.00	7
TAPR 110 N (1)	110	0 ÷ -0.020	0 ÷ -0.20	70	121.2	265	266	220	80	74	407	115	152	125	M120X3	655	1700	0.065 - 0.165	41.00	6
TAPR 120 N (1)	120	0 ÷ -0.020	0 ÷ -0.20	85	135.5	310	340	257	90	84	490	140	172	135	M130X3	950	2900	0.065 - 0.165	72.00	6

(1) Material: nodular cast iron.

(*) Also suppliable in the spherical ball joint version with 2RS. Availability and prices upon request.

(*) When requiring a left-end threading, replace on the article code the letter "R" with "L", e.g. TAPL...N. Availability and prices upon request.

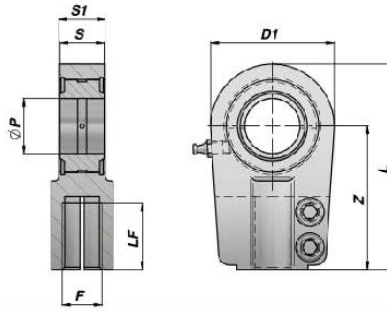
Possible to supply special rod ends with maintenance free spherical bearing.

(See the spherical bearings catalogue for series : SRB, SRT...-2RS, SRLB, SRLT...-2RS, SR...TGR, SR...TG3A...-2RS). These articles are available without grease nipples or lubrication holes.

CSTAPR...UGAS

NEW!

**EMBOU A ROTULE
BALL-JOINT END WITH GREASE NIPPLE**



Code Code	ØP	Z	S	D1	S1	L	F	LF min	FC (kN)	kg
CSTAPR025UGAS	25	65	20	56	23	95	M18x2	30	48	0,65
CSTAPR030UGAS	30	75	22	64	28	109	M24x2	35	62	1,00
CSTAPR035UGAS	35	90	25	78	30	132	M30x2	45	80	1,30
CSTAPR040UGAS	40	105	28	94	35	155	M39x3	55	100	2,40
CSTAPR050UGAS	50	135	35	116	40	198	M50x3	75	156	4,10
CSTAPR060UGAS	60	170	44	130	50	240	M64x3	95	245	6,50
CSTAPR070UGAS (**)	70	195	49	154	55	278	M80x3	110	315	9,50
CSTAPR080UGAS (**)	80	210	55	176	60	305	M90x3	120	400	16,00
CSTAPR090UGAS (**)	90	250	60	206	65	363	M100x3	140	490	28,00
CSTAPR100UGAS (**)	100	275	70	230	70	400	M110x4	150	610	34,00
CSTAPR110UGAS (**)	110	300	70	264	80	442	M120x4	160	650	44,00
CSTAPR120UGAS (**)	120	360	85	340	90	540	M150x4	190	950	75,00

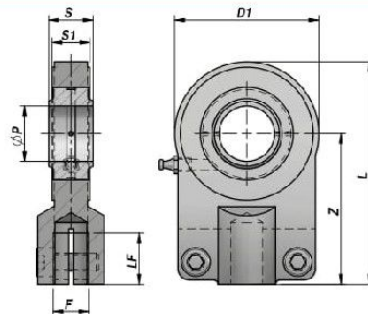
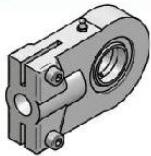
FC = CHARGE DYN. MAXI - MAX DYNAMIC LOAD

MATERIEL : ACIER ISO 12240-1 SERIE E - (**) = FONTE SPHEROIDALE
MATERIAL : STEEL ISO 12240-1 SERIES E - (**) = NODULAR CAST IRON

CSTAPR...S

NEW!

**EMBOU A ROTULE
BALL-JOINT END WITH GREASE NIPPLE**



Code Code	ØP	Z	S	D1	S1	L	F	LF min	FC (kN)	kg
*CSTAPR701D	12	42	10	35	8	58	M10x1.25	15	10.8	0.12
**CSTAPR702D (A)	16	48	14	45	11	69	M12x1.25	17	21.1	0.22
**CSTAPR703D	20	58	16	55	13	83	M14x1.5	19	30.0	0.46
CSTAPR704D	25	68	20	65	17	99	M16x1.5	23	48.0	0.67
CSTAPR705D	30	85	22	80	19	123	M20x1.5	29	62.0	1.25
CSTAPR706D	40	105	28	100	23	153	M27x2	37	100.0	2.16
CSTAPR707D	50	130	35	120	30	188	M33x2	46	156.0	3.90
CSTAPR708D	60	150	44	160	38	230	M42x2	57	245.0	7.15
CSTAPR709D (**)	80	185	55	205	46	287.5	M48x2	64	400.0	15.00
CSTAPR710D (**)	100	240	70	240	55	357.5	M64x3	86	610.0	27.30

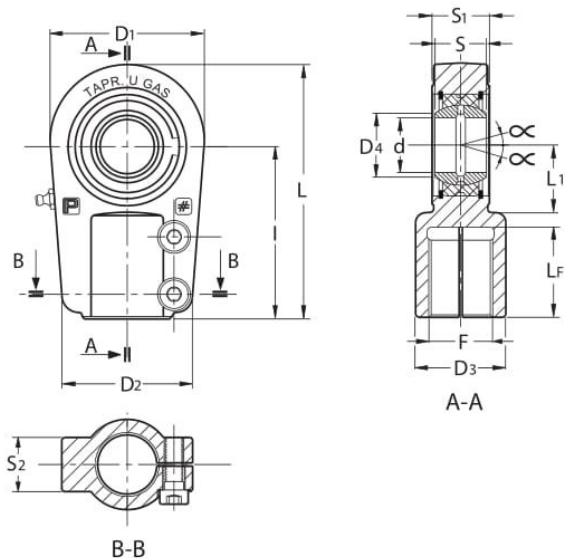
FC = CHARGE DYN. MAXI - MAX DYNAMIC LOAD

(A) = SANS NORME - OUT OF RULE

* = SANS GRAISSEUR - WITHOUT GREASE NIPPLE

** = GRAISSAGE PAR TROU - LUBRICATING HOLE IN THE HEAD

MATERIEL : ACIER DIN 24555 - ISO 8133 - (**) = FONTE SPHEROIDALE
MATERIAL : STEEL DIN 24555 - ISO 8133 - (**) = NODULAR CAST IRON



TAPR...U GAS

BALL JOINT ENDS

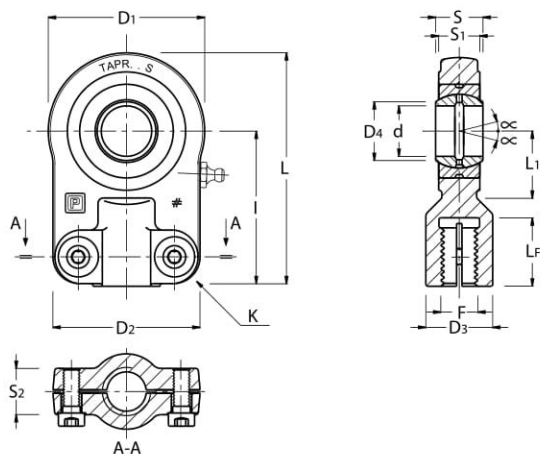
WITH GREASE NIPPLE
COUPLING: STEEL/STEEL



ARTICLE (*)	d	TOLERANCES		S	D4	I	D1	D2	S1	S2	L	L1	D3	LF	F	LOAD FACTORS		RADIAL CLEARANCE	SWINGING ANGLE α	SCREW K UNI 5931	SCREWS CLOSING COUPLE Nm	WEIGHT Kg.
		d	s													Dynamic C	Static Co					
mm.																KN	mm.	degree				
TAPR25UGAS	25	0 \pm -0.010	0 \pm -0.12	20	29.3	65	56	48	23	21	95	25	28	30	M18x2	48	76	0.037-0.100	8	M8x20	20	0.65
TAPR30UGAS	30	0 \pm -0.010	0 \pm -0.12	22	34.2	75	64	56	28	26	109	30	34	35	M24x2	62	112	0.037-0.100	7	M8X22	20	1.0
TAPR35UGAS	35	0 \pm -0.012	0 \pm -0.12	25	39.7	90	78	70	30	28	132	40	44	45	M30x2	80	180	0.037-0.100	7	M10X30	40	1.3
TAPR40UGAS	40	0 \pm -0.012	0 \pm -0.12	28	45.0	105	94	78	35	33	155	45	55	55	M39x3	100	295	0.043-0.120	7	M12X30	80	2.4
TAPR50UGAS	50	0 \pm -0.012	0 \pm -0.12	35	56.0	135	116	88	40	36	198	55	70	75	M50x3	156	445	0.043-0.120	7	M12X35	80	4.1
TAPR60UGAS	60	0 \pm -0.015	0 \pm -0.15	44	66.8	170	130	118	50	46	240	65	87	95	M64x3	245	530	0.043-0.120	7	M16X45	160	6.5
TAPR70UGAS(1)	70	0 \pm -0.015	0 \pm -0.15	49	77.8	195	154	138	55	51	278	75	105	110	M80x3	315	720	0.055-0.142	6	M16X50	160	9.5
TAPR80UGAS(1)	80	0 \pm -0.015	0 \pm -0.15	55	89.4	210	176	168	60	55	305	80	125	120	M90x3	400	890	0.055-0.142	6	M20X55	300	16
TAPR90UGAS(1)	90	0 \pm -0.020	0 \pm -0.20	60	98.1	250	206	180	65	60	363	90	150	140	M100x3	490	1300	0.055-0.142	5	M20x60	300	28
TAPR100UGAS(1)	100	0 \pm -0.020	0 \pm -0.20	70	109.5	275	230	188	70	65	400	105	170	150	M110x4	610	1490	0.065-0.165	7	M20x65	300	34
TAPR110UGAS(1)	110	0 \pm -0.020	0 \pm -0.20	70	121.2	300	264	210	80	74	442	115	180	160	M120x4	650	2050	0.065-0.165	6	M24x75	500	44
TAPR120UGAS(1)	120	0 \pm -0.020	0 \pm -0.20	85	135.5	360	340	240	90	84	540	140	210	190	M150x4	950	2970	0.065-0.165	6	M24x85	500	75
TAPR140UGAS(1)	140	0 \pm -0.025	0 \pm -0.25	90	155.8	420	380	256	110	105	620	185	230	210	M160x4	1080	3350	0.065-0.165	7	M30X105	1100	160
TAPR160UGAS(1)	160	0 \pm -0.025	0 \pm -0.25	105	170.2	460	480	290	110	105	710	200	260	240	M180x4	1370	4300	0.100-0.192	8	M30X105	1100	185

(1) Material: nodular cast iron.

(*) Also supplyable in the spherical ball joint version with 2RS. Availability and prices upon request.



TAPR...S

TERMINALI A SNODO

DIN 24555 - ISO 8133
RILUBRIFICABILI
ACCOPPIAMENTO: ACCIAIO SU ACCIAIO



SIGLA (*)	d	TOLLERANZE		S	D4	I	D1	D2	S1	S2	L	L1	D3	LF	F	FATTORI DI CARICO LIMITE		GIUOCO SNODO RADIALE	ANGOLO DI OSCILLAZIONE α	VITE K UNI 5931	COPPIA DI SERRAGGIO VITI Nm	PESO IN Kg.	
		d	S													Dinamico C	Statico Co						
mm.																	KN	mm.	gradi				
TAPR 12 S (1)	12	0 ÷ -0.008	0 ÷ -0.12	10	15	42	35	40	8	13	58	16	17	15	M10X1.25	10.8	17	0.032-0.068	11	M 6X14	10	0.12	
TAPR 16 S (2)	16	0 ÷ -0.008	0 ÷ -0.12	14	20.7	48	45	45	11	13	69	20	21	17	M12X1.25	21.1	28.5	0.040-0.082	10	M 6X14	10	0.22	
TAPR 20 S (2)	20	0 ÷ -0.010	0 ÷ -0.12	16	24.1	58	55	55	13	17	83	28	25	19	M14X1.5	30	42.5	0.040-0.082	9	M 8X18	25	0.43	
TAPR 25 S	25	0 ÷ -0.010	0 ÷ -0.12	20	29.3	68	65	62	17	17	99	31	30	23	M16X1.5	48	67	0.050-0.100	7	M 8X18	25	0.67	
TAPR 30 S	30	0 ÷ -0.010	0 ÷ -0.12	22	34.2	85	80	77	19	19	123	35	36	29	M20X1.5	62	108	0.050-0.100	6	M10X20	49	1.25	
TAPR 40 S	40	0 ÷ -0.012	0 ÷ -0.12	28	45	105	100	90	23	23	153	45	45	37	M27X2	100	156	0.060-0.120	7	M10X25	49	2.16	
TAPR 50 S	50	0 ÷ -0.012	0 ÷ -0.12	35	56	130	120	105	30	30	188	58	55	46	M33X2	156	245	0.060-0.120	6	M12X30	86	3.90	
TAPR 60 S (3)	60	0 ÷ -0.015	0 ÷ -0.15	44	66.8	150	160	134	38	38	255	68	68	57	M42X2	245	380	0.060-0.120	6	M16X40	210	7.15	
TAPR 80 S (3)	80	0 ÷ -0.015	0 ÷ -0.15	55	89.4	185	205	156	47	47	282.5	82	90	64	M48X2	400	585	0.072-0.142	6	M20X50	410	15.00	
TAPR 100 S (3)	100	0 ÷ -0.020	0 ÷ -0.20	70	109.5	240	240	190	55	55	357.5	116	110	86	M64X3	610	865	0.085-0.165	6	M24X60	710	27.30	

(1) NON RILUBRIFICABILE. (2) RILUBRIFICABILE MEDIANTE UN FORO DI LUBRIFICAZIONE SULLA TESTA. - (3) MATERIALE GHISA SFEROIDALE

(*) NEL CASO DI RICHIESTA CON FILETTATURA SINISTRORSA SOSTITUIRE NEL COD. ART. LA LETTERA "R" CON "L" ES. TAPL...S. - DISPONIBILITA' E PREZZO A RICHIESTA.

E' POSSIBILE LA FORNITURA DI TERMINALI SPECIALI DOTATI DI SNODO SFERICO ESENTE DA MANUTENZIONE.

(VEDI CATALOGO SNODI SFERICI SERIE: SRB..., SRT...-2RS, SRLB..., SRLT...-2RS, SR...TGR, SR...TG3A...-2RS). PERTANTO I PEZZI SARANNO PRIVI DI INGRASSATORE O FORO OLIAIORE.