



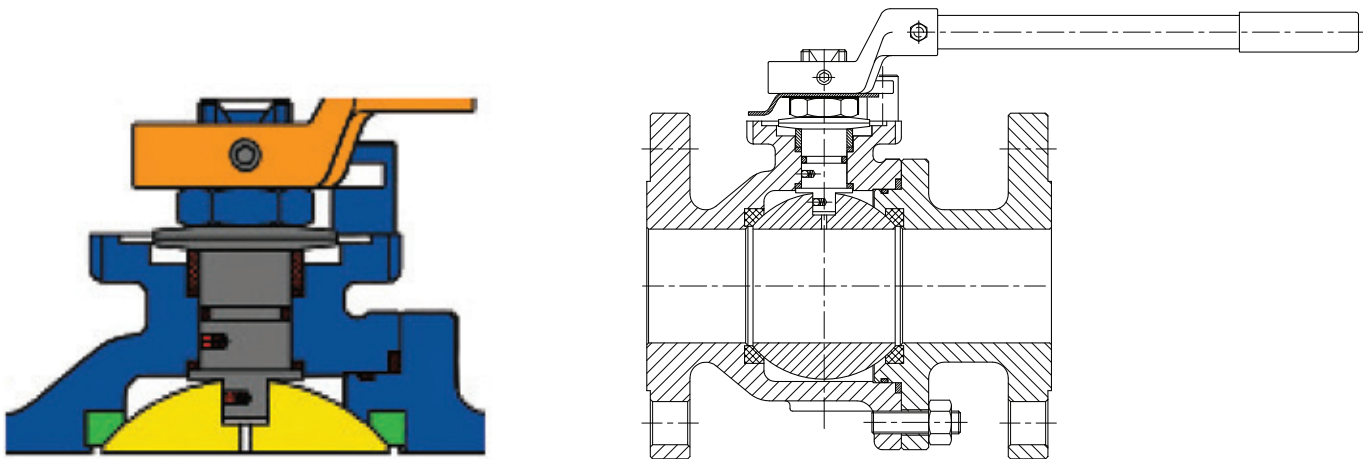
KTM VIRGO SERIES S FLOATING BALL VALVES DIMENSIONS

GLAND PACKED DESIGN



S2 DESIGN

The triple seal utilizes a combination of O-rings and packing materials to provide a leak-proof seal and to minimize fugitive emissions. Live loaded system design ensures additional protection against leakage through the stem housing even at very low pressures.

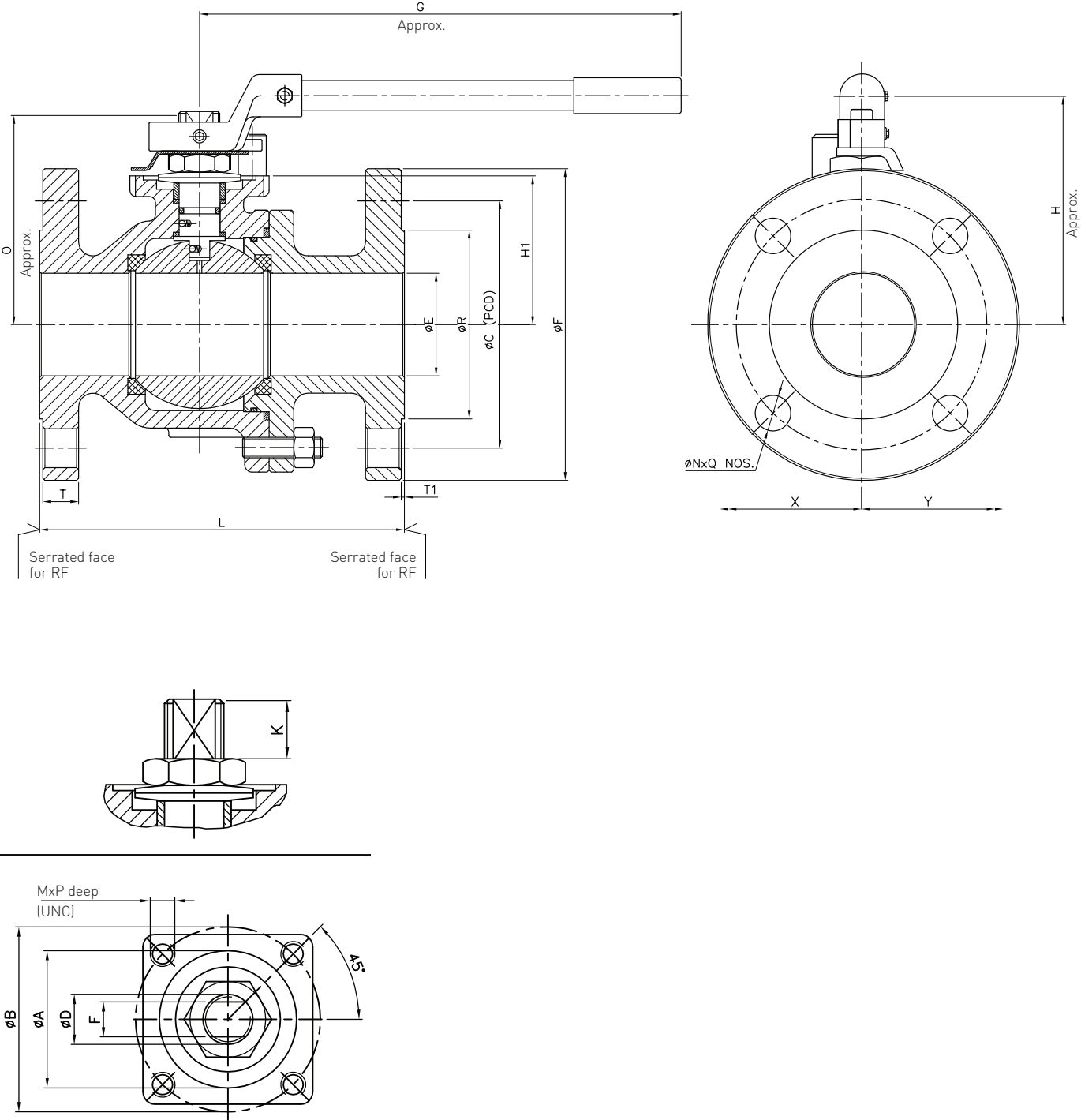


Document No.: D/BAL-015E-A

KTM VIRGO SERIES S FLOATING BALL VALVES DIMENSIONS
GLAND PACKED DESIGN

SIZE NPS ½, ¾, 1, 1½, 2, 2½ FB, CLASS 150 AND 300

DIMENSIONS



ISO MOUNTING PAD/ BARE STEM DETAIL

KTM VIRGO SERIES S FLOATING BALL VALVES DIMENSIONS

GLAND PACKED DESIGN

SIZE NPS ½, ¾, 1, 1½, 2, 2½ FB, CLASS 150 AND 300

DIMENSIONS

SIZE Class	NPS ½ 150	NPS ½ 300	NPS ¾ 150	NPS ¾ 300	NPS 1 150	NPS 1 300	NPS 1½ 150	NPS 1½ 300	NPS 2 150	NPS 2 300	NPS 2½ 150	NPS 2½ 300
øE	14	14	20	20	25	25	38	38	50	50	62	62
L	108 ± 2	140 ± 2	117 ± 2	152 ± 2	127 ± 2	165 ± 2	165 ± 2	190 ± 2	178 ± 2	216 ± 2	190 ± 2	241 ± 2
H	91	91	98	98	105	110	130	130	178	118	187	187
G	200	200	225	225	225	300	325	325	290	290	290	290
øF	90	95	100	115	108	125	125	155	152	165	178	190.5
øC (PCD)	60.3	66.7	69.9	82.6	79.4	88.9	98.4	114.3	120.6	127	139.7	149.2
øR	35	35	43	43	51	51	73	73	92	92	105	105
T	8 + 3	12.7 + 3	8.9 + 3	14.3 + 3	9.6 + 3	15.9 + 3	12.7 + 3	19.1 + 3	14.3 + 3	20.7 + 3	15.9 + 3	23.9 + 3
øN*	16	16	16	19	16	19	16	22	19.05	19	19	22
Q **	4	4	4	4	4	4	4	4	4	8	4	8
ISO 5211 MTG	F05	F05	F05	F05	F05	F07	F07	F07	F07	F07	F07	F07
O	51.4	51.4	61.5	61.5	70	75	99.5	99.5	105	105	114.5	115.5
H1	38	38	45	45	51	55	70	70	72.5	72.5	81.5	83
øA	35	35	35	35	35	50	50	50	55	55	55	55
øB	50	50	50	50	50	70	70	70	70	70	70	70
MxP ❖	¼" x 8"	¼" x 8"	¼" x 8"	¼" x 8"	¼" x 8"	⅝" x 10"	⅝" x 10"	⅝" x 10"	⅝" x 13"	⅝" x 13"	⅝" x 15"	⅝" x 15"
øD	12	12	14	14	14	16	20	20	20	20	20	20
F	9	9	10	10	10	10	14	14	14	14	14	14
K	8.6	8.9	11.5	11.5	13.9	14	20.5	20.5	22.8	22.8	22.8	22.8
T1	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
X***	47	50	52	60	56	65	65	80	78	85	91	98
Y***	47	50	52	60	56	65	65	80	78	85	91	98

NOTES

All dimensions are in mm, unless otherwise specified.

* Hole diam.

** No. of hole

*** 'X' and 'Y' are maximum envelope dimensions considering maximum dimension of customer side flange and body diameter.

Handle coupler shape / configuration can vary as per size.

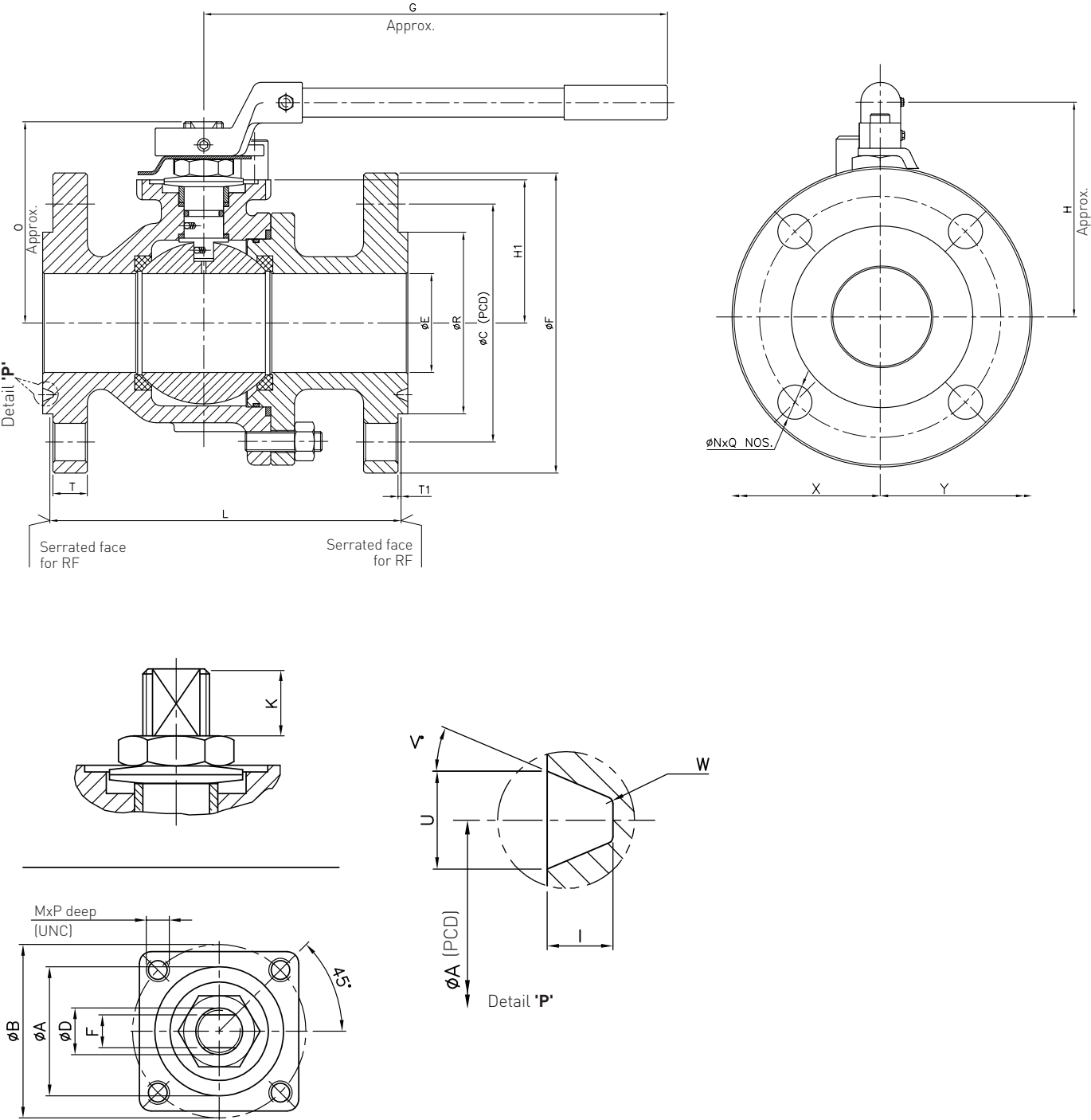
❖ Deep

KTM VIRGO SERIES S FLOATING BALL VALVES DIMENSIONS

GLAND PACKED DESIGN

SIZE NPS 1/2, 3/4 FB, CLASS 600 AND NPS 1/2, 3/4, 1, 1 1/2, 2 FB, CLASS 900 / 1500

DIMENSIONS



ISO MOUNTING PAD/ BARE STEM DETAIL

KTM VIRGO SERIES S FLOATING BALL VALVES DIMENSIONS

GLAND PACKED DESIGN

SIZE NPS ½, ¾ FB, CLASS 600 AND NPS ½, ¾, 1, 1½, 2 FB, CLASS 900 / 1500

DIMESIONS

Size		NPS ½	NPS ½	NPS ¾	NPS ¾	NPS 1	NPS 1½	NPS 2
Class		600	900 / 1500	600	900 / 1500	900 / 1500	900 / 1500	900 / 1500
øE		14	14	19	19	25	38	50
L	RF	165 ± 2	216 ± 2	190 ± 2	229 ± 2	254 ± 2	305 ± 2	365 ± 2
	RTJ	163 ± 2	216 ± 2	190 ± 2	229 ± 2	254 ± 2	305 ± 2	368 ± 2
H		130	125	127	130	115	138	158
G		213	295	292	293.5	295	602	602
øF		95	121	117	131	149.5	178	216
øC (PCD)		66.6	83	82.6	89	101.5	124	165.1
øR	RF	35	35	43	43	51.0	73	92
	RTJ	50.8	60.5	63.5	66.6	71.5	92	124
T		14.3 + 3	22.3 + 3	15.9 + 3	25.4 + 3	28.6 + 3	31.8 + 3	38 + 3
øN *		16	22.5	19	22.5	25.5	28.5	25.4
Q **		4	4	4	4	4	4	8
ISO 5211 MTG		F05	F05	F05	F05	F07	F10	F10
O		67	67	67	67	97.5	112	131
H1		48	48	48	48	70	80	96
øA		32	32	32	32	42	70	70
øB		50	50	50	50	70	102	102
MxP ❖		¼" x 10"	¼" x 10"	¼" x 10"	¼" x 10"	⅝" x 10"	⅝" x 15"	⅝" x 13"
øD		16	16	16	16	20	28	28
F		9.95	9.95	9.95	9.95	13.95	19.95	20.15
K		13	13	16	12	18.5	22.7	25
T1	RF	6.4	6.4	6.4	6.4	6.4	6.4	6.4
	RTJ	5.6	6.4	6.4	6.4	6.4	6.4	6.4
X ***		50	63	61	67.5	77	91	110
Y ***		50	63	61	67.5	77	91	110
U		7.14	8.74	8.74	8.74	8.74	8.74	11.91
V		23°	23°	23°	23°	23°	23°	23°
W		0.8	0.8	0.8	0.8	0.8	0.8	0.8
I		5.6	6.4	6.4	6.4	6.4	6.4	7.9
øA (PCD)		34.14	39.67	42.88	44.45	50.80	68.27	95.25

NOTES

All dimensions are in mm, unless otherwise specified.

* Hole diam.

** No. of hole

*** 'X' and 'Y' are maximum envelope dimensions considering maximum dimension of customer side flange and body diameter.

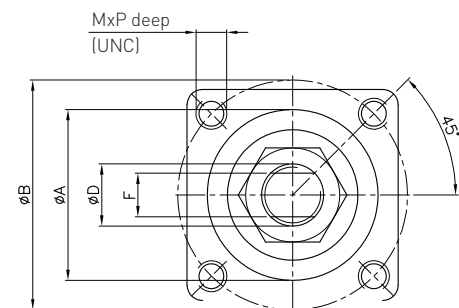
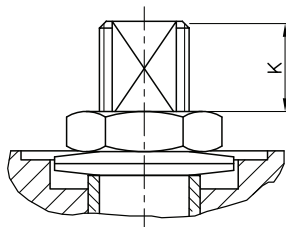
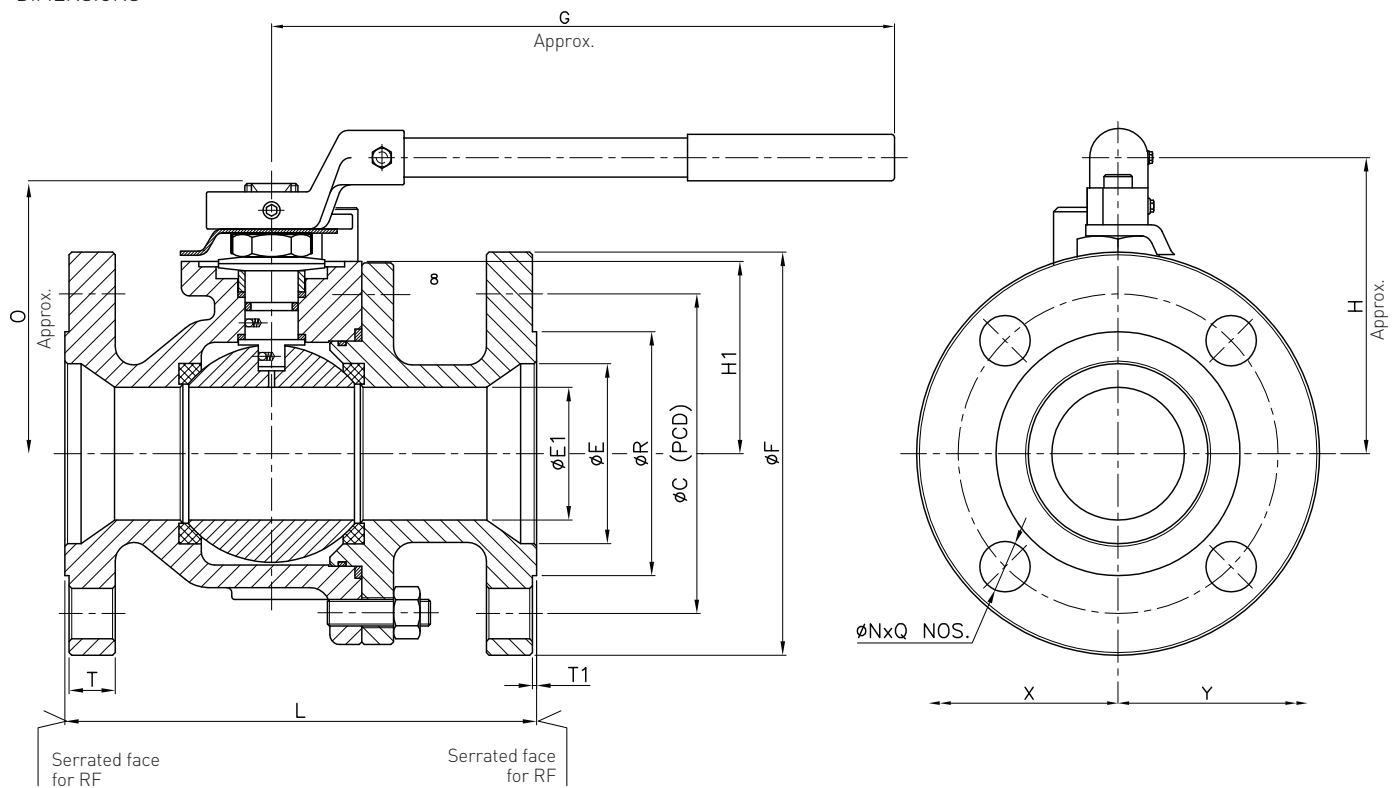
Handle coupler shape / configuration can vary as per size.

❖ Deep

GLAND PACKED DESIGN

SIZE NPS 3/4 x 1/2, 1 x 3/4, 1 1/2 x 1, 2 x 1 1/2, 3 x 2 1/2, 4 x 3, 6 x 4, 8 x 6 RB, CLASS 150 AND 300

DIMENSIONS



ISO MOUNTING PAD/ BARE STEM DETAIL

KTM VIRGO SERIES S FLOATING BALL VALVES DIMENSIONS

GLAND PACKED DESIGN

SIZE NPS ¾ x ½, 1 x ¾, 1½ x 1, 2 x 1½, 3 x 2½, 4 x 3, 6 x 4, 8 x 6 RB, CLASS 150 AND 300

DIMENSIONS

Size Class	NPS														
	¾ x ½	¾ x ½	1 x ¾	1 x ¾	1½ x 1	1½ x 1	2 x 1½	2 x 1½	3 x 2	3 x 2½	4 x 3	4 x 3	6 x 4	6 x 4	8 x 8
	150	300	150	300	150	300	150	300	150	300	150	300	150	300	150
øE	19	19	25	25	38	38	50	50	76	76	102	102	152	152	203
øE1	14	14	20	20	25	25	38	38	50	62	76	76	102	102	152
L	117 ± 2	152 ± 2	127 ± 2	165 ± 2	165 ± 2	190 ± 2	178 ± 2	216 ± 2	203 ± 2	282 ± 2	229 ± 2	305 ± 2	267 (SP) ± 2	403 (LP) / 403 (SP) ± 2	292 (SP) ± 2
H	91	91	98	98	105	110	130	148	120	187	160	160	181	181	263
G	200	200	225	225	225	300	325	210	290	290	453	453	453	453	990
øF	100	115	110	125	125	155	152	165	190	210	229	254	279.5	318	343
øC (PCD)	69.9	82.6	79.3	88.9	98.4	114.3	120.6	127	152.4	168	190.5	200	241.3	270	298.4
øR	43	43	51	51	73	73	92	92	127	127	157	157	216	216	270
T	8.9 + 3	14.3 + 3	9.6 + 3	15.9 + 3	12.7 + 3	19.1 + 3	14.3 + 3	20.7 + 3	17.5 + 3	27 + 3	22.3 + 3	30.2 + 3	23.9 + 3	35 + 3	27 + 3
øN *	16	19	16	19	16	22	19	19	19	22	19	22	22	22	22
Q **	4	4	4	4	4	4	4	8	4	8	8	8	8	12	8
ISO 5211 MTG	F05	F05	F05	F05	F05	F07	F07	F05	F07	F07	F10	F10	F10	F10	F12
O	51.4	92	61.5	61.5	69.8	74.5	99.5	92	105	84.5	138	138	159.5	159.5	222
H1	38	63	32	45	51	55	70	63	72.5	114.5	98	98	120	120	170
øA	35	35	35	35	35	50	50	35	55	55	70	70	70	70	85.2
øB	50	50	50	50	50	70	70	50	70	70	102	102	102	102	125
MxP ❖	¼" x 8"	¼" x 8"	¼" x 8"	¼" x 8"	¼" x 8"	⅝" x 10"	⅝" x 10"	¼" x 9"	⅝" x 12"	⅝" x 15"	⅜" x 15"	⅜" x 15"	⅜" x 15"	⅜" x 15"	½" x 20"
øD	12	16	14	14	14	16	20	16	20	20	28	28	28	28	36
F	9	10	10	10	10	10	13.95	10	14	14	20	20	20	20	24
K	9.5	19.3	11.5	11.5	13.9	13.7	20	19	20.5	21.3	27.8	27.8	27.8	27.8	28
T1	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
X ***	52	60	57	65	65	80	78	85	97	107	117	130	142	161	174
Y ***	52	60	57	65	65	80	78	85	97	107	117	130	142	161	174

NOTES

All dimensions are in mm, unless otherwise specified.

* Hole diam.

** No. of hole

*** 'X' and 'Y' are maximum envelope dimensions considering maximum dimension of customer side flange and body diameter.

Handle coupler shape / configuration can vary as per size.

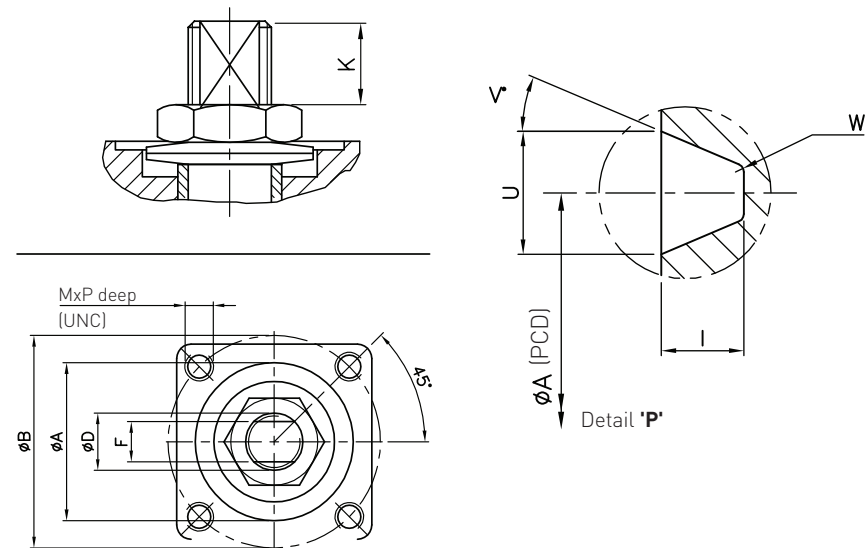
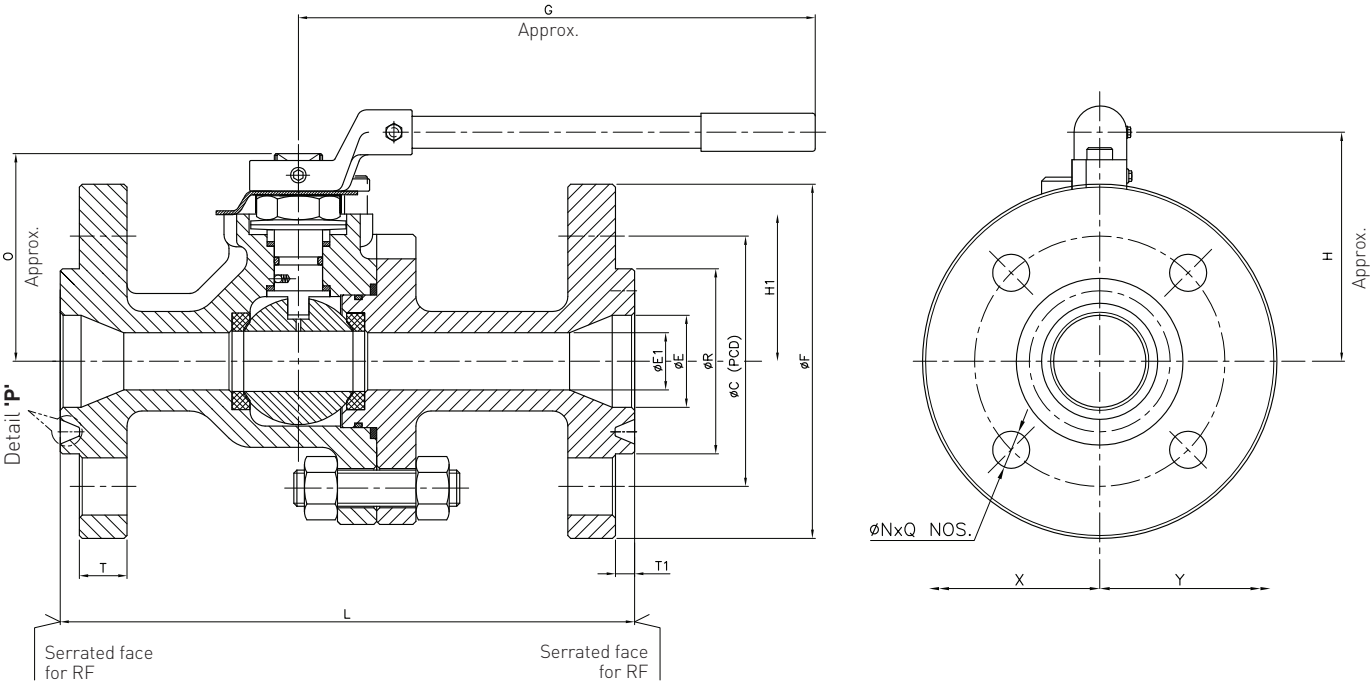
❖ Deep

KTM VIRGO SERIES S FLOATING BALL VALVES DIMENSIONS

GLAND PACKED DESIGN

NPS 3/4 x 1/2, 1 x 3/4 RB, CLASS 600 AND NPS 3/4 x 1/2, 1 1/2 x 1 RB, CLASS 900 / 1500

DIMENSIONS



ISO MOUNTING PAD/ BARE STEM DETAIL

KTM VIRGO SERIES S FLOATING BALL VALVES DIMENSIONS

GLAND PACKED DESIGN

NPS ¾ x ½, 1 x ¾ RB, CLASS 600 AND NPS ¾ x ½, 1½ x 1 RB, CLASS 900 / 1500

DIMENSIONS

Size		NPS ¾ x ½	NPS 1 x ¾	NPS ¾ x ½	NPS 1 x ¾	NPS 1½ x 1
Class		600	600	900 / 1500	900 / 1500	900 / 1500
øE		19	25	20	25	38
øE1		14	19	14	19	25
L	RF	190 ± 2	216 ± 2	229 ± 2	254 ± 2	305 ± 2
	RTJ	190 ± 2	216 ± 2	229 ± 2	254 ± 2	305 ± 2
H		130	130	125	125	160
G		212	212	295	295	302
øF		117.5	125	130.5	149.5	178
øC (PCD)		83	88.9	89	101.5	124
øR	RF	43	51	43	51	73
	RTJ	63.5	70	66.6	71.5	92
T		15.9 + 3	17.5 + 3	25.4 + 3	28.6 + 3	31.8 + 3
øN *		19	19	22.5	25.5	28.5
Q **		4	4	4	4	4
ISO 5211 MTG		F05	F05	F05	F05	F07
O		67	67	67	67	97.5
H1		48	48	48	48	70
øA		32	32	32	32	42
øB		50	50	50	50	70
MxP ❖		¼" x 10"	¼" x 10"	¼" x 10"	¼" x 10"	5/16" x 10"
øD		16	16	16	16	20
F		9.95	9.95	9.95	9.95	13.95
K		13	16	13	12	18.5
T1	RF	6.4	6.4	6.4	6.4	6.4
	RTJ	6.4	6.4	6.4	6.4	6.4
X ***		61	64	67.5	77	91
Y ***		61	64	67.5	77	91
U		8.74	8.74	8.74	8.74	8.74
V		23°	23°	23°	23°	23°
W		0.8	0.8	0.8	0.8	0.8
I		6.4	6.4	6.4	6.4	6.4
øA (PCD)		42.48	50.80	44.45	50.80	68.27

NOTES

All dimensions are in mm, unless otherwise specified.

* Hole diam.

** No. of hole

*** 'X' and 'Y' are maximum envelope dimensions considering maximum dimension of customer side flange and body diameter. Handle coupler shape / configuration can vary as per size.

❖ Deep

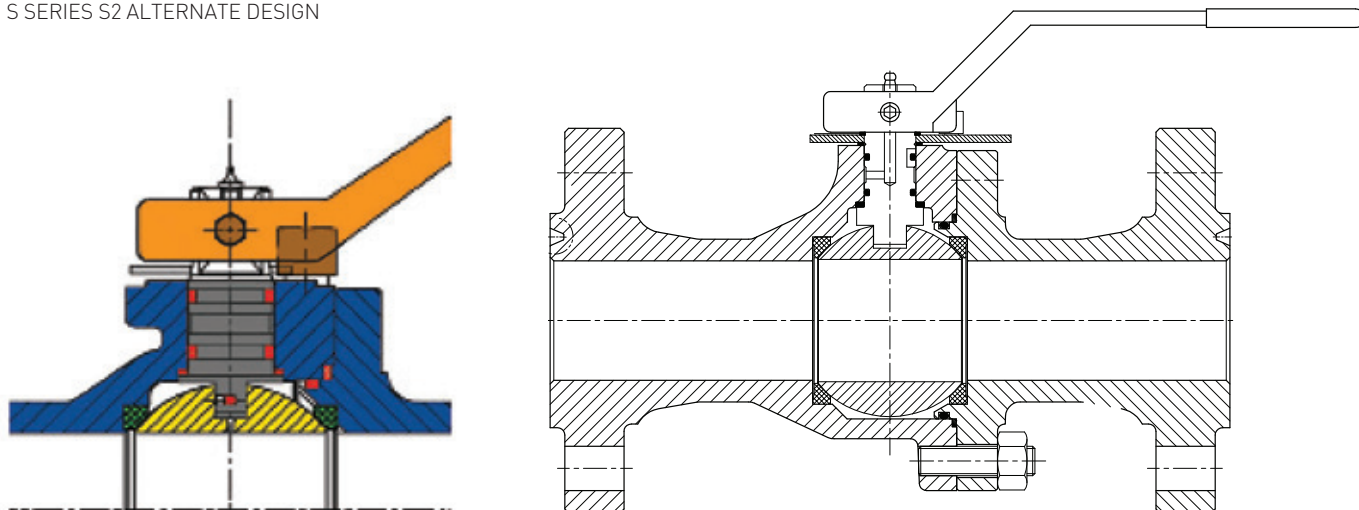
KTM VIRGO SERIES S FLOATING BALL VALVES DIMENSIONS

GLAND PACKED DESIGN

S2 ALTERNATE DESIGN

The Virgo S2 with alternative seal Floating Ball Valve includes features designed to accommodate the rigorous oil patch environment.

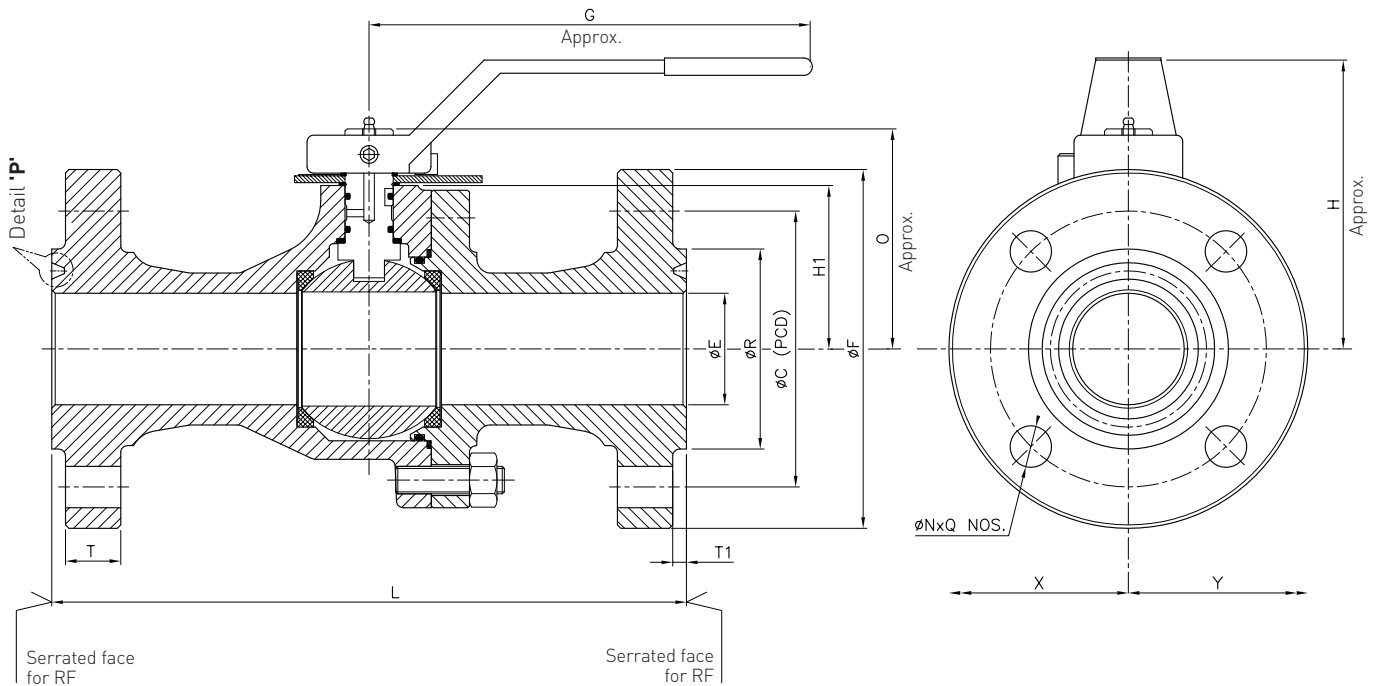
S SERIES S2 ALTERNATE DESIGN



KTM VIRGO SERIES S FLOATING BALL VALVES DIMENSIONS

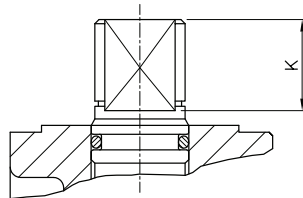
GLAND PACKED DESIGN

NPS 1, 1½ FB, CLASS 600



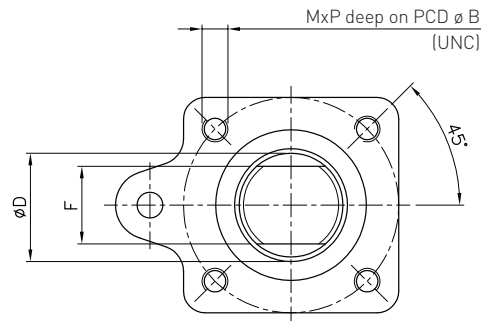
DIMENSIONS

Size	NPS 1	NPS 1½
Class	600	600
øE	25	38
L (RF)	216 ± 2	241 ± 2
L (RTJ)	216 ± 2	241 ± 2
H	95	125
G	152	275
øF	124	155
øC (PCD)	89	114.3
øR (RF)	51	73
øR (RTJ)	70	90.5
T	17.5 + 3	22.3 + 3
øN *	19	22
Q **	4	4
O	65	92
K	13.8	23.5
F	14	18
øD	20	24
MxP ❖	¼" x 8"	¼" x 10"
øB	50	50
T1 (RF)	6.4	6.4
T1 (RTJ)	6.4	6.4
H1	49	65
X ***	64	80
Y ***	64	80
U	8.74	8.74
V ***	23°	23°
W	0.8	0.8
Z	6.4	6.4
øA (PCD)	50.8	68.27



NOTE

Handle coupler shape / configuration can vary as per size.



ISO MOUNTING PAD

NOTES

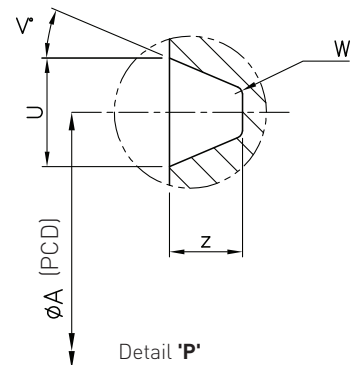
All dimensions are in mm, unless otherwise specified.

* Hole diam.

** No. of hole

*** 'X' and 'Y' are maximum envelope dimensions considering maximum dimension of customer side flange and body diameter. Handle coupler shape / configuration can vary as per size.

❖ Deep

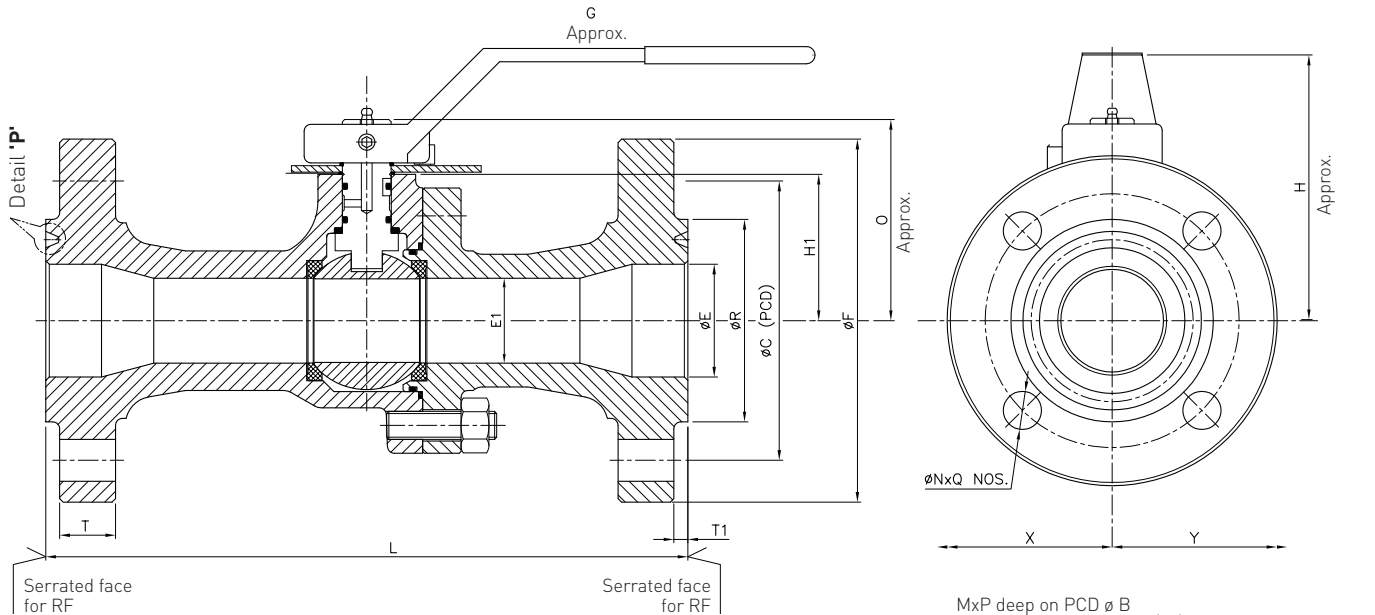


Detail 'P'

KTM VIRGO SERIES S FLOATING BALL VALVES DIMENSIONS

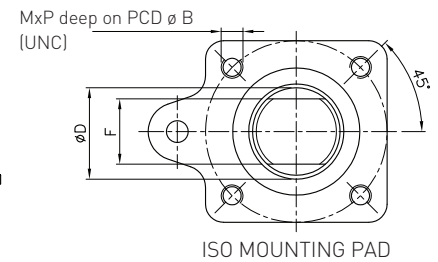
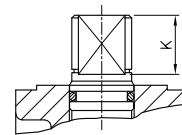
GLAND PACKED DESIGN

NPS 2 x 1½, 3 x 2, 4 x 3, 6 x 4 RB, CLASS 600

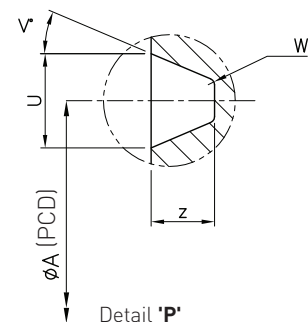
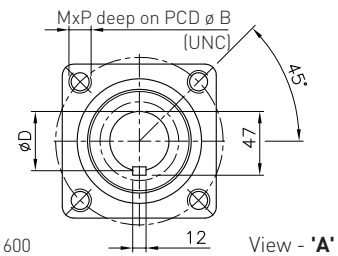


DIMENSIONS

Size	NPS 2 x 1½	NPS 3 x 2	NPS 4 x 3	NPS 6 x 4
Class	600	600	600	600
øE	50	76	102	152
øE1	38	50	76	102
L	(RF) 292 ± 2 (RTJ) 295 ± 2	356 ± 2 359 ± 2	432 ± 2 435 ± 2	559 ± 2 562 ± 2
H	124.7	140	178.5	258
G	203	410	685	457
øF	165	209.5	273	356
øC (PCD)	127	168.1	216	292
øR	(RF) 92 (RTJ) 108	127 146	157 175	216 241
T	25.4 + 3	31.8 + 3	38.1 + 3	47.7 + 3
øN *	19	22	25.4	28.57
Q **	8	8	8	12
MxP ❖	¼" x 8"	⅝" x 13"	⅜" x 15"	⅝" x 18"
O	92	105.5	146.5	168.7
øB (PCD)	50	70	102	140
øD	24	26	34	42
F	18	20	26.4	'A'
K	25.5	28	33	38.5
H1	63	74.5	108	127
T1	(RF) 6.4 (RTJ) 7.92	6.4 7.92	6.4 7.92	6.4 7.92
X ***	84.5	107	138.5	180
Y ***	84.5	107	138.5	180
U	11.91	11.91	11.91	11.91
V	23°	23°	23°	23°
W	0.8	0.8	0.8	0.8
Z	7.92	7.92	7.92	7.92
øA (PCD)	82.55	123.83	149.23	211.12



For NPS 6 x 4 Class 600



NOTES

All dimensions are in mm, unless otherwise specified.

* Hole diam.

** No. of hole

*** 'X' and 'Y' are maximum envelope dimensions considering maximum dimension of customer side flange and body diameter. Handle coupler shape / configuration can vary as per size.

❖ Deep

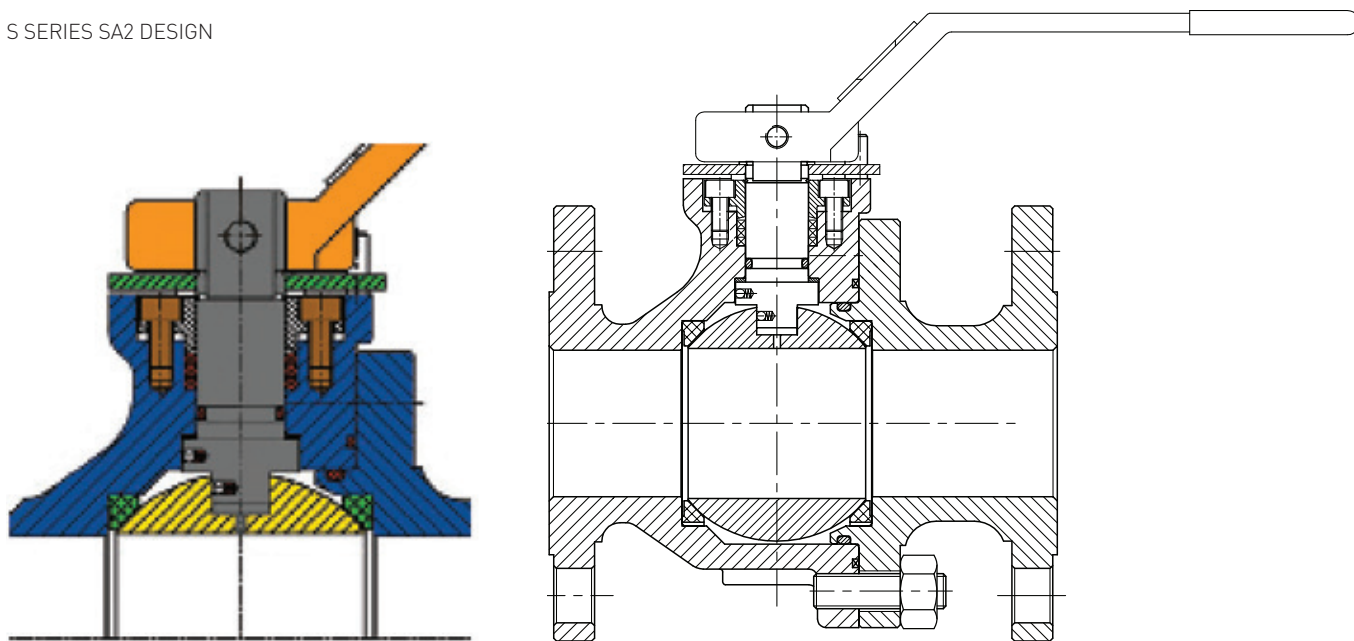
KTM VIRGO SERIES S FLOATING BALL VALVES DIMENSIONS

GLAND PACKED DESIGN

SA2 DESIGN

The Virgo SA2 Floating Ball Valve is designed to provide optimum sealing through the combination of O-ring seal and adjustable packing provides the ideal seal and low fugitive emissions. Oversized stem is ideal for automation.

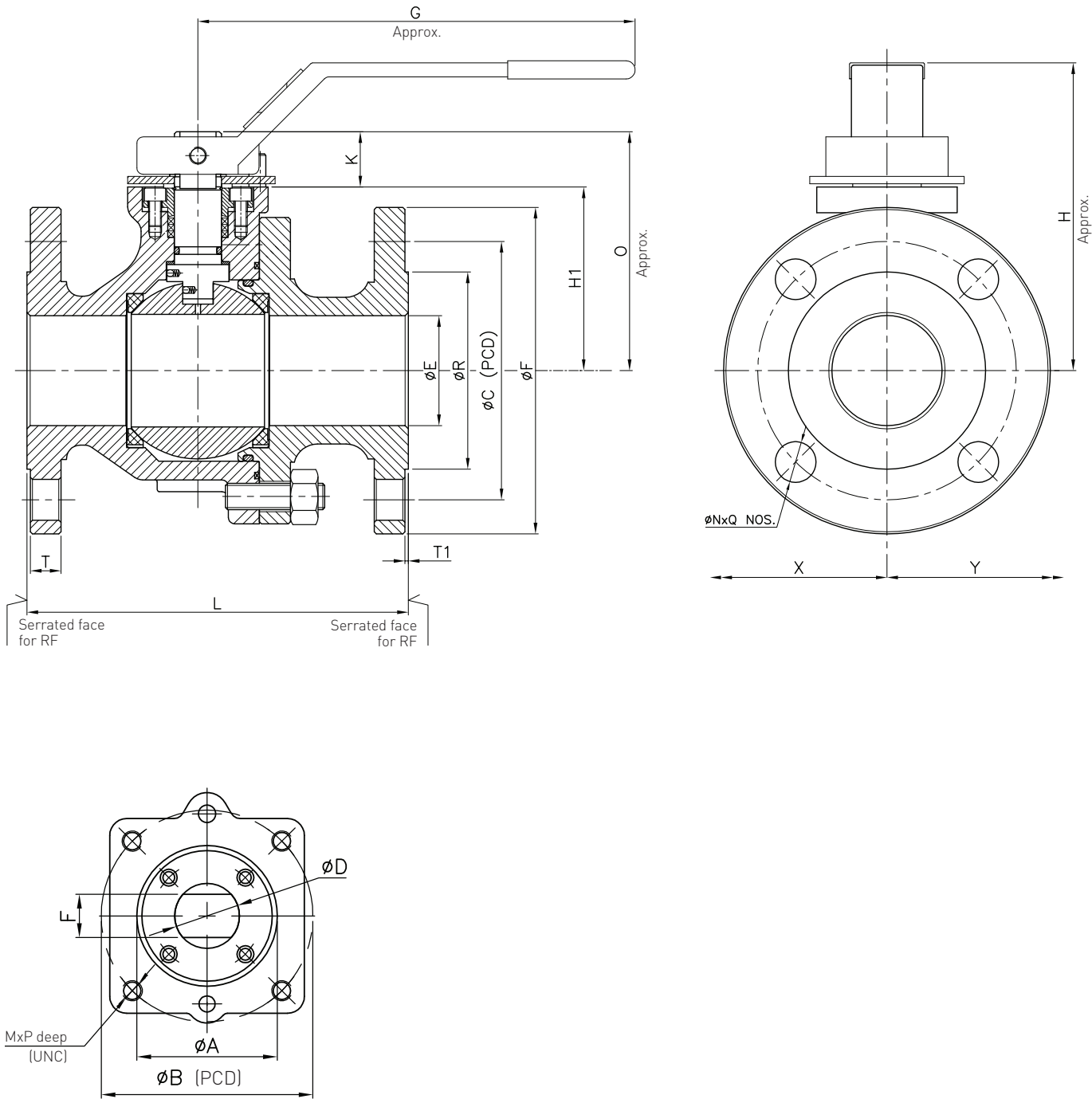
S SERIES SA2 DESIGN



KTM VIRGO SERIES S FLOATING BALL VALVES DIMENSIONS
GLAND PACKED DESIGN

NPS 3, 4, 6 FB, CLASS 150, NPS 3, 4 FB, CLASS 300 AND NPS 2, 3, 4 FB, CLASS 600

DIMENSIONS



ISO MOUNTING PAD / BARE STEM DETAIL

KTM VIRGO SERIES S FLOATING BALL VALVES DIMENSIONS

GLAND PACKED DESIGN

NPS 3, 4, 6 FB, CLASS 150, NPS 3, 4 FB, CLASS 300 AND NPS 2, 3, 4 FB, CLASS 600

DIMENSIONS

SIZE Class	NPS 2 600	NPS 3 150	NPS 3 300	NPS 3 600	NPS 4 150	NPS 4 300	NPS 4 600	NPS 6 150
øE	51	77	77	77	102	102	102	152
L	292 ± 2	203 ± 2	282 ± 2	356 ± 2	229 ± 2	305 ± 2	432 ± 2	394 (LP) / 267 (SP) ± 2
H	143.5	185.5	185	247.2	265	265	266	306.2
G	203	381	381	458	458	458	458	458
øF	165	190.5	209.5	209.5	228.6	255	273	279.5
øC (PCD)	127	152.4	168.3	168.1	190.5	200	215.9	241.3
øR	92	127	127	127	157	157	157.23	216
T	25.4 + 3	17.5 + 3	27 + 3	31.8 + 3	22.3 + 3	30.2 + 3	38.1 + 3	23.9 + 3
øN *	19	19	22.2	22.2	19	22.2	25.4	22.2
Q **	8	4	8	8	8	8	8	8
ISO 5211 MTG	F07	F10	F10	F10	F10	F10	F12	F12
O	11.5	148.9	148.9	159	177.5	177.3	178	218.5
H1	85.7	115	115	120	138.5	138.5	139.5	180
øA	52	67.5	67.5	78	78	78	83	83
øB	70	102	102	102	102	102	125	125
MxP ❖	5/16" x 12"	3/8" x 11"	3/8" x 11"	3/8" x 11"	3/8" x 11"	3/8" x 11"	1/2" x 16"	1/2" x 16"
øD	22	31.3	31.3	34.8	34.75	34.75	38.2	38.2
F	14.2	15.8	15.8	18.9	18.9	18.9	25.5	25.5
K	26.5	33.9	33.9	33.9	39	38.8	38.5	38.5
T1	6.35	1.6	1.6	6.35	1.6	1.6	6.4	6.4
X ***	85	104	107	108	118	130	140	167
Y ***	85	104	107	108	118	130	140	167

NOTES

All dimensions are in mm, unless otherwise specified.

* Hole diam.

** No. of hole

*** 'X' and 'Y' are maximum envelope dimensions considering maximum dimension of customer side flange and body diameter.

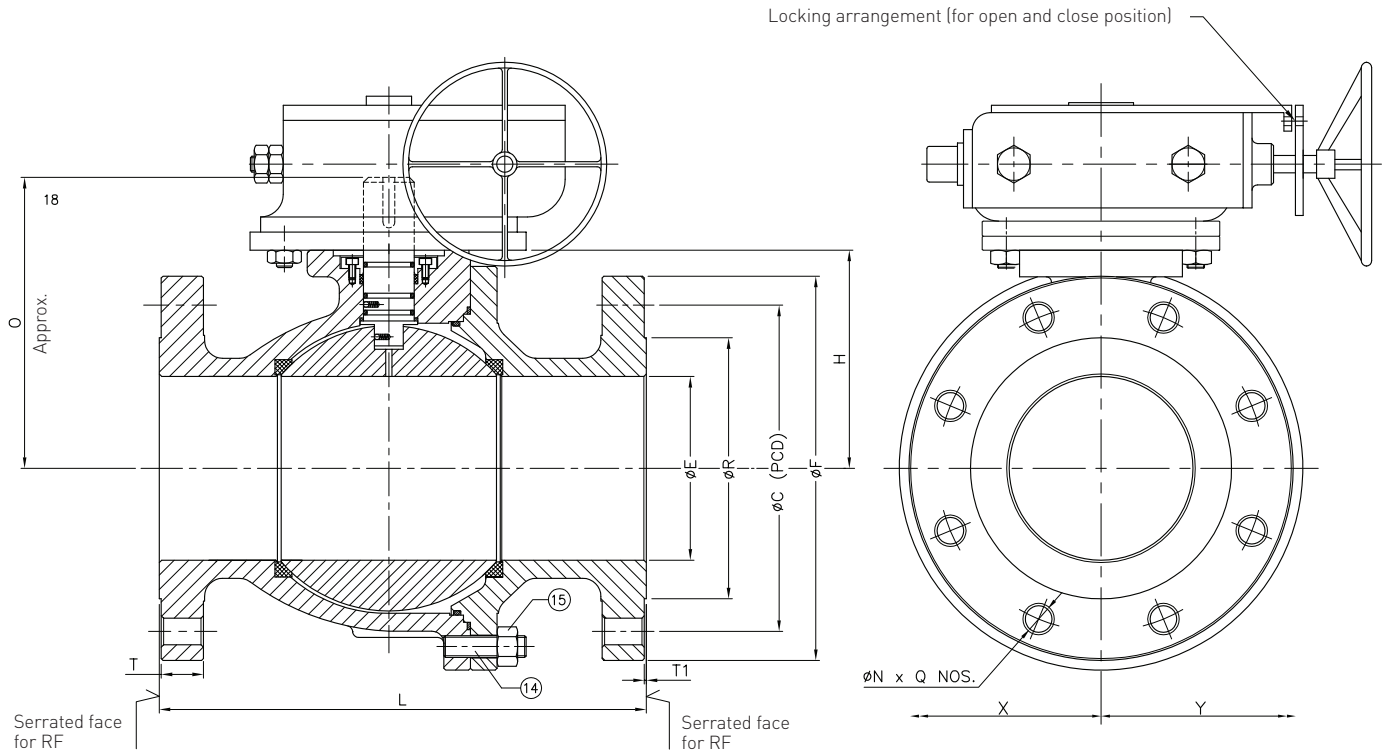
Handle coupler shape / configuration can vary as per size.

❖ Deep

KTM VIRGO SERIES S FLOATING BALL VALVES DIMENSIONS

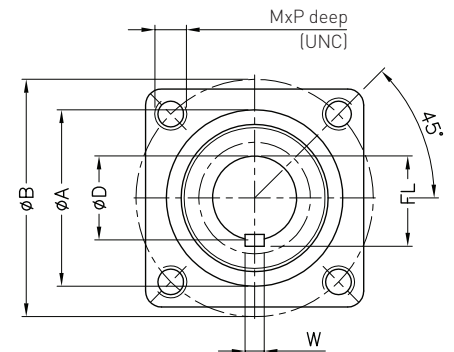
GLAND PACKED DESIGN

NPS 8, 10 FB, CLASS 150 AND NPS 6, 8 FB, CLASS 300



DIMENSIONS

Size	NPS 6	NPS 8	NPS 8	NPS 10
Class	300	150	300	150
ØE	152	203	203	254
L	403 (LP) ± 2	457 (LP) ± 2	502 (LP) ± 2	533 (LP) ± 2
ØF	318	343	381	406.5
ØC (PCD)	270	298.4	330	362
ØR	216	270	270	324
T	35 + 3	27 + 3	39.7 + 3	28.6 + 3
ØN *	22	22	25.5	26
Q **	12	8	12	12
H	180.5	219	219	309
ISO 5211 MTG	F14	F14	F14	F16
MxP ❖	5/8" x 22"	5/8" x 25"	5/8" x 25"	Ø22 ❖❖
O	257.5	296	296	369.5
ØA	100	100	100	130
ØB (PCD)	140	140	140	165
ØD	42	42	42	66
FL	47	47	47	71.5
W	12	12	12	22
T1	1.6	1.6	1.6	1.6
X ***	170	212	212	246
Y ***	170	212	212	246



ISO MOUNTING PAD / BARE STEM DETAIL

NOTES

All dimensions are in mm, unless otherwise specified.

* Hole diam.

** No. of hole

*** 'X' and 'Y' are maximum envelope dimensions considering maximum dimension of customer side flange and body diameter. Handle coupler shape / configuration can vary as per size.

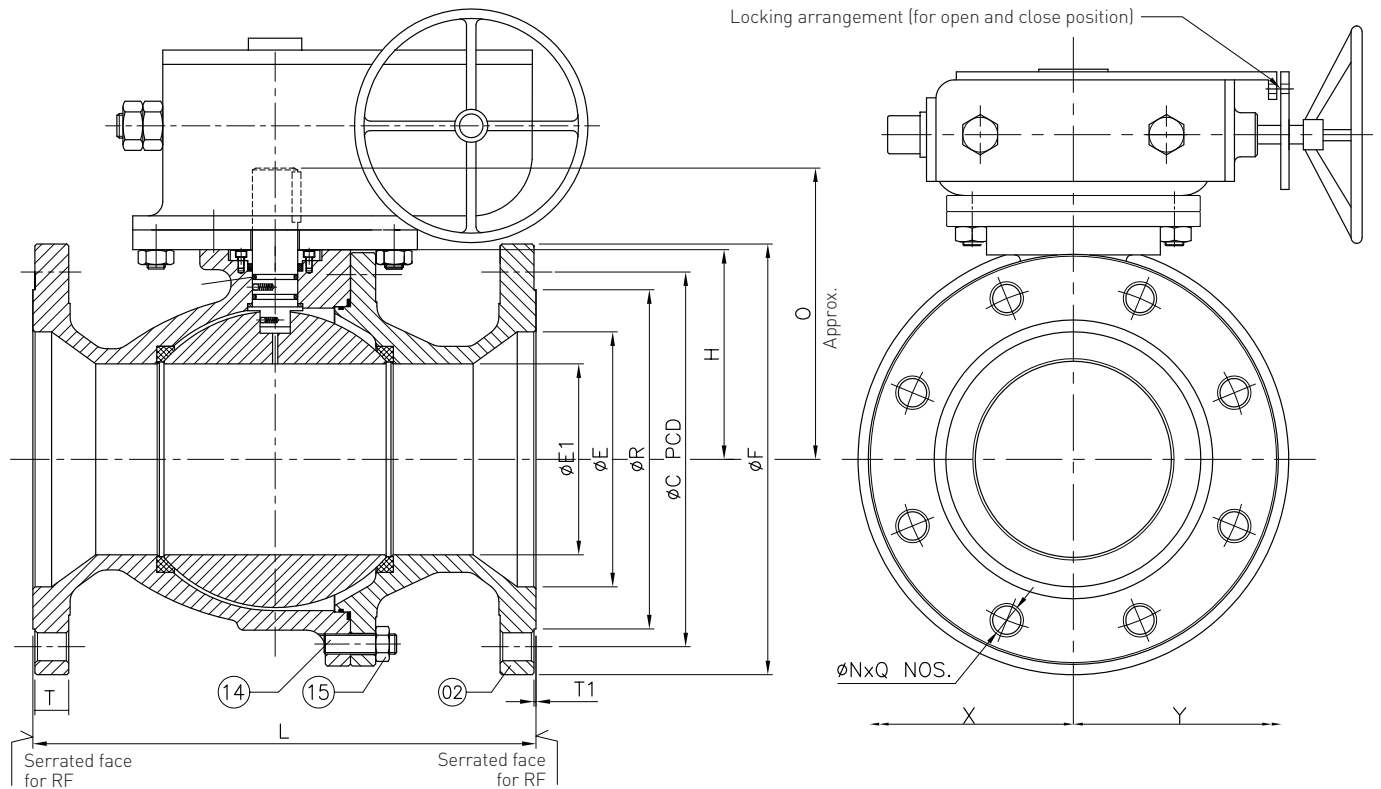
❖ Deep

❖❖ Thru hole

KTM VIRGO SERIES S FLOATING BALL VALVES DIMENSIONS

GLAND PACKED DESIGN

NPS 8, 10 FB, CLASS 150 & NPS 6, 8 FB, CLASS 300



DIMENSIONS

Size	NPS 10 x 8	NPS 8 x 6	NPS 10 x 8
Class	150	300	300
ØE	254	203	254
ØE1	203	152	203
L	330 (SP) ± 2	419 (SP) ± 2	457 ± 2
ØF	406.5	381	444.5
ØC (PCD)	362	330	387.3
ØR	324	270	324
T	28.6 + 3	39.7 + 3	46.1 + 3
ØN *	26	25.5	28.5
Q **	12	12	16
H	219	180.5	219
ISO 5211 MTG.	F14	F14	F14
MxP ❖	5/8" x 25"	5/8" x 25"	5/8" x 25"
O	296	257.5	296
ØA	100	100	100
ØB (PCD)	140	140	140
ØD	42	42	42
FL	47	47	47
W	12	12	12
T1	1.6	1.6	1.6
X ***	212	193	227
Y ***	212	193	227

NOTES

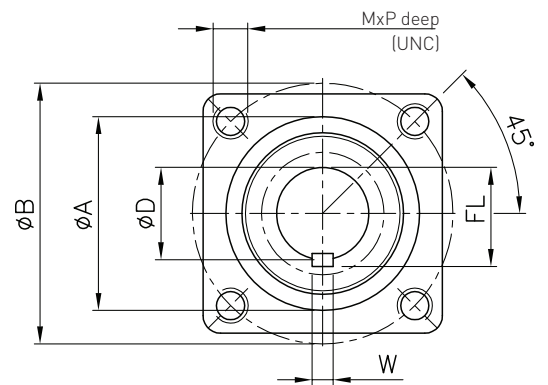
All dimensions are in mm, unless otherwise specified.

* Hole diam.

** No. oOf hole

*** 'X' and 'Y' are maximum envelope dimensions considering maximum dimension of customer side flange and body diameter. Handle coupler shape / configuration can vary as per size.

❖ Deep



ISO MOUNTING PAD / BARE STEM DETAIL

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