MULTI-TURN & QUARTER TURN GEARBOXES



QUALITY MANUFACTURER

QUALITY COMMITMENT

Quality is Our First Priority.

Consistent product quality and a proven track record makes Australian Pipeline Valve a dependable choice where total reliability is the number one concern.

Since its founding, APV's philosophy has been focused on quality. Our valves are manufactured in full compliance to worldwide standards (such as ASME/ANSI, API, EN, ISO, BS, AS).



70-78 Stanbel Road Salisbury Plain South Australia 5109 Telephone +61 (0)8 8285 0033 email: admin@australianpipelinevalve.com.au

www.australianpipelinevalve.com.au





CONTENTS - SHORT VERSION*

BA Series Bevel Gear Operator	4
BA-0 Bevel Gear Operator	5
BA-1 Bevel Gear Operator	6
BA-2 Bevel Gear Operator	7
BA-3 Bevel Gear Operator	8
BAA-3 Bevel Gear Operator	9~10*
Worm Gear Operator	11
WG007 Worm Gear Operator	12~13*
WG008 Worm Gear Operator	14~15*
WG108 Worm Gear Operator	16~17*
WG158 Worm Gear Operator	18~19*
WG208 Worm Gear Operator	20~21*
WG238 Worm Gear Operator	22~23*
WG308 Worm Gear Operator	24~25*
WG358 Worm Gear Operator	26~27*
WG408 Worm Gear Operator	28~29*
WG448 Worm Gear Operator	30~31*
WG508 Worm Gear Operator	32~33*
WG608 Worm Gear Operator	34~35*
WG708 Worm Gear Operator	36~37*
SH Series Worm Gear Operator	38*
DC Series Worm Gear Operator	39
MOS Series Declutchable Gear Over-Ride	40~44*

* This version excludes some of these pages, refer to full version at website.

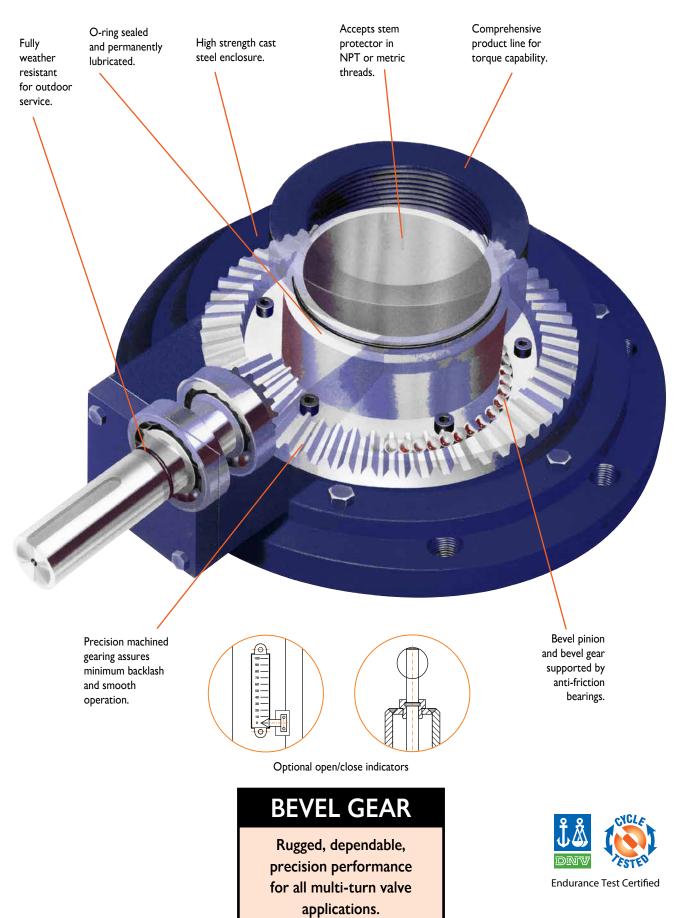




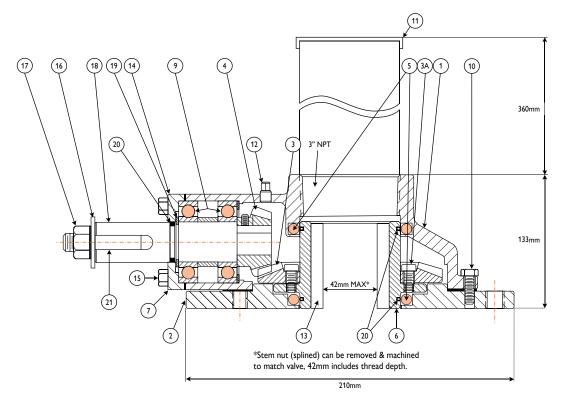
© Copyright Australian Pipeline Valve 1990 - 2024 Edition

Catalogues, photos, brochures and technical publications are the exclusive property of Australian Pipeline Valve. Any unauthorised reproduction in total or in part, shall result in prosecution. Products and data sheets in this publication are subject to change at anytime without notice. Australian Pipeline Valve reserves the right to carry out amendments to products and materials.

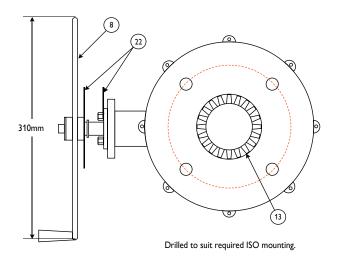
BA SERIES BEVEL GEAR OPERATOR



BA-0 BEVEL GEAR OPERATOR



MOUNTING PATTERN



Handwheel & Stem Protector Included

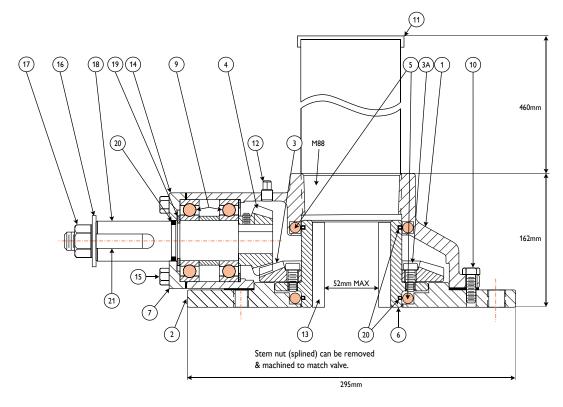
PARTS AND BILL OF MATERIALS

No	Part Name	Qty	Material
1	Housing	1	Carbon Steel
2	Base	1	Carbon Steel
3	Bevel Gear	1	1045 Carbon Steel
3A	Bevel Gear Capscrew	6	Carbon Steel
4	Pinion Gear & Input Shaft	1	1045 Carbon Steel + ENP
5	Bearing Balls	47	GCR15
6	Drive Sleeve	1	Ductile Iron
7	Cover	4	Carbon Steel
8	Handwheel	1	Assembly + FBE
9	Ball Bearing	2	
10	Bolt	10	Carbon Steel
11	Stem Protector & Cap	1	
12	Grease Nipple	1	AISI 1020 + ZP
13	Stem Nut Insert	1	Brass H62
14	Сар	1	Carbon Steel
15	Bolt	1	1045 Carbon Steel + ZP
16	Washer	1	Steel + ZP
17	Nut	1	Brass or 2H
18	Pinion Gear Input Shaft	1	1045 + ENP
19	Snap Ring	3	
20	O-Ring	2	EPDM
21	Кеу	1	A3 + ZP
22	Locking Device	1	A3 + ZP + FBE

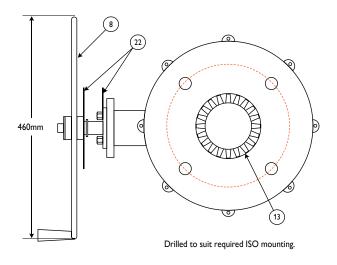
No couplings or brackets are supplied. The splined stem nut insert (13) in gearbox can be removed and ACME threaded to match valve stem. Alternatively the stem nut from your existing valve can be utilised, a simple coupler then needs to be made to match gear box.

Unit Type	Weight in KG W/O Wheel	Output Torque NM	Input Torque NM	Unit Ratio	Maximum Stem Diameter	Maximum Thrust
BA-0	28	735	240	3.6:1	42mm	141KN

BA-1 BEVEL GEAR OPERATOR



MOUNTING PATTERN



Handwheel & Stem Protector Included

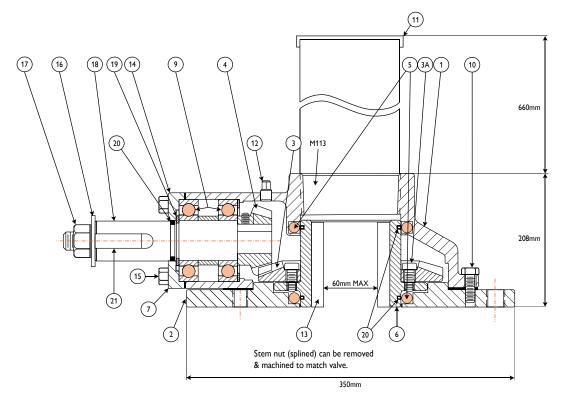
PARTS AND BILL OF MATERIALS

No	Part Name	Qty	Material
1	Housing	1	Carbon Steel
2	Base	1	Carbon Steel
3		1	1045 Carbon Steel
3A	Bevel Gear Capscrew	6	Carbon Steel
4	Pinion Gear & Input Shaft	1	1045 Carbon Steel + ENP
5	Bearing Balls	47	GCR15
6	Drive Sleeve	1	Ductile Iron
7	Cover	4	Carbon Steel
8	Handwheel	1	Assembly + FBE
9	Ball Bearing	2	Commercial
10	Bolt	10	Carbon Steel
11	Stem Protector & Cap	1	
12	Grease Nipple	1	AISI 1020 + ZP
13	Stem Nut Insert	1	Brass H62
14	Сар	1	Carbon Steel
15	Bolt	1	1045 Carbon Steel + ZP
16	Washer	1	Steel + ZP
17	Nut	1	Brass or 2H
18	Pinion Gear Input Shaft	1	1045 + ENP
19	Snap Ring	3	Spring Steel 65 MN
20	O-Ring	2	EPDM
21	Кеу	1	A3 + ZP
22	Locking Device	1	A3 + ZP + FBE

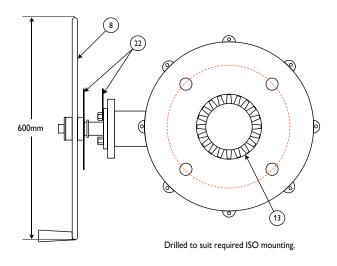
No couplings or brackets are supplied. The splined stem nut insert (13) in gearbox can be removed and ACME threaded to match valve stem. Alternatively the stem nut from your existing valve can be utilised, a simple coupler then needs to be made to match gear box.

Unit Type	Weight in KG W/O Wheel	Output Torque NM	Input Torque NM	Unit Ratio	Maximum Stem Diameter	Maximum Thrust
BA-1	54	1500	400	4.5:1	50mm	190KN

BA-2 BEVEL GEAR OPERATOR



MOUNTING PATTERN



Handwheel & Stem Protector Included

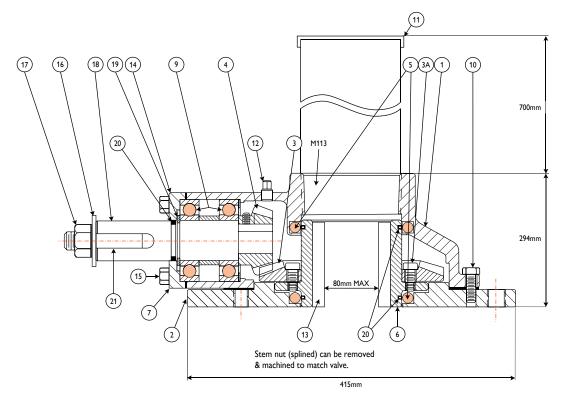
PARTS AND BILL OF MATERIALS

No	Part Name	Qty	Material
1	Housing	1	Carbon Steel
2	Base	1	Carbon Steel
3	Bevel Gear	1	1045 Carbon Steel
3A	Bevel Gear Capscrew	6	Carbon Steel
4	Pinion Gear & Input Shaft	1	1045 Carbon Steel + ENP
5	Bearing Balls	47	GCR15
6	Drive Sleeve	1	Ductile Iron
7	Cover	4	Carbon Steel
-	Handwheel	1	Assembly + FBE
9	Ball Bearing	2	Commercial
10	Bolt	10	Carbon Steel
	Stem Protector & Cap	1	Steel Pipe - Galvanised
12	Grease Nipple	1	AISI 1020 + ZP
13	Stem Nut Insert	1	Brass H62
14	Сар	1	Carbon Steel
15	Bolt	1	1045 Carbon Steel + ZP
-	Washer	1	Steel + ZP
17	Nut	1	
18	Pinion Gear Input Shaft	1	1045 + ENP
19	Snap Ring	3	
20	O-Ring	2	EPDM
21	Кеу		A3 + ZP
22	Locking Device	1	A3 + ZP + FBE

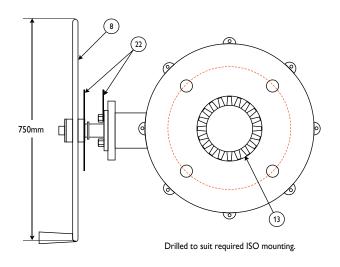
No couplings or brackets are supplied. The splined stem nut insert (13) in gearbox can be removed and ACME threaded to match valve stem. Alternatively the stem nut from your existing valve can be utilised, a simple coupler then needs to be made to match gear box.

Unit Type	Weight in KG W/O Wheel	Output Torque NM	Input Torque NM	Unit Ratio	Maximum Stem Diameter	Maximum Thrust
BA-2	28	2940	600	5.2:1	60mm	308KN

BA-3 BEVEL GEAR OPERATOR



MOUNTING PATTERN



Handwheel & Stem Protector Included

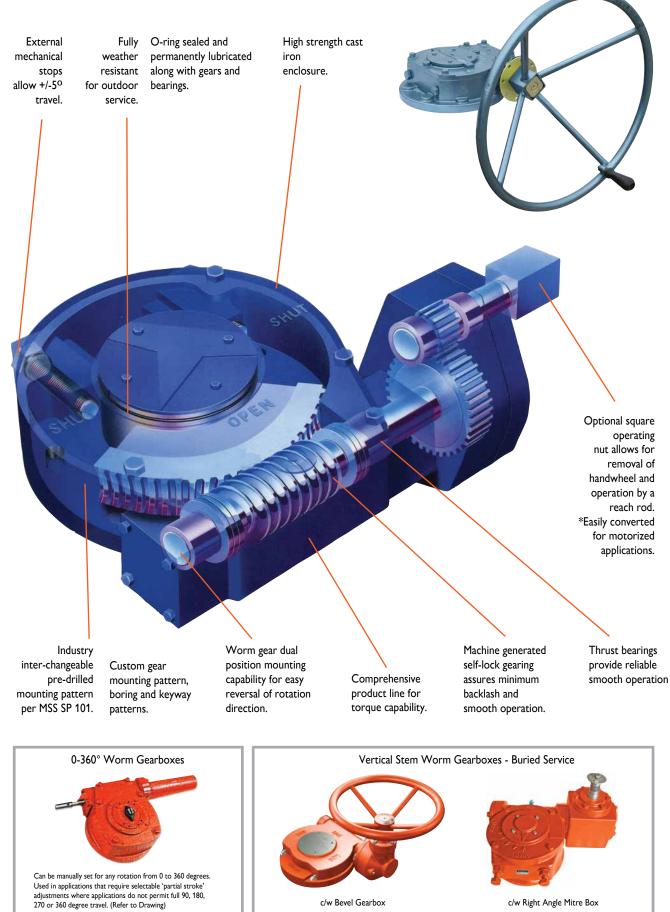
PARTS AND BILL OF MATERIALS

No	Part Name	Qty	Material
1	Housing	1	Carbon Steel
2	Base	1	Carbon Steel
3	Bevel Gear	1	1045 Carbon Steel
3A	Bevel Gear Capscrew	6	Carbon Steel
	Pinion Gear & Input Shaft	1	1045 Carbon Steel + ENP
5	Bearing Balls	47	GCR15
-	Drive Sleeve	1	Ductile Iron
7	Cover	4	Carbon Steel
8	Handwheel	1	Assembly + FBE
9	Ball Bearing	2	Commercial
10	Bolt	10	Carbon Steel
	Stem Protector & Cap	1	Steel Pipe - Galvanised
12	Grease Nipple	1	AISI 1020 + ZP
13	Stem Nut Insert	1	Bronze C95200
	Сар	1	Carbon Steel
15	Bolt	1	1045 Carbon Steel + ZP
16	Washer	1	Steel + ZP
17	Nut	1	Brass or 2H
18	Pinion Gear Input Shaft	1	1045 + ENP
19	Snap Ring	3	Spring Steel 65 MN
20	O-Ring	2	EPDM
21	Кеу	1	A3 + ZP
22	Locking Device	1	A3 + ZP + FBE

No couplings or brackets are supplied. The splined stem nut insert (13) in gearbox can be removed and ACME threaded to match valve stem. Alternatively the stem nut from your existing valve can be utilised, a simple coupler then needs to be made to match gear box.

Unit Type	Weight in KG W/O Wheel	Output Torque NM	Input Torque NM	Unit Ratio	Maximum Stem Diameter	Maximum Thrust
BA-3	230	4000	700	5.7:1	80mm	402KN

WORM GEAR OPERATOR

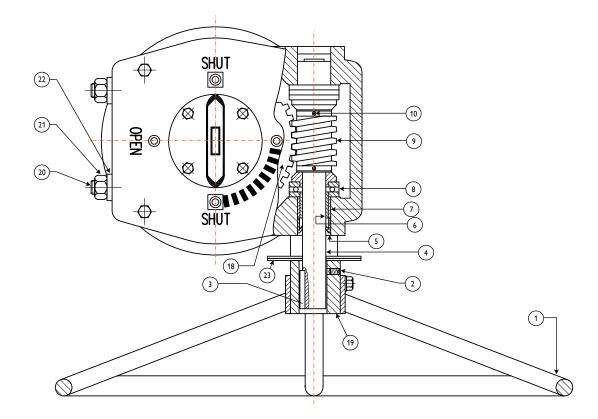


*Heavy duty components must be specified for motor operation

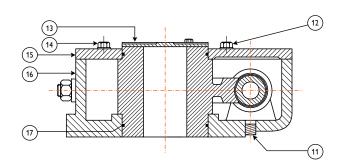
c/w Right Angle Mitre Box

c/w Bevel Gearbox

WG007 WORM GEAR OPERATOR



PARTS AND BILL OF MATERIALS

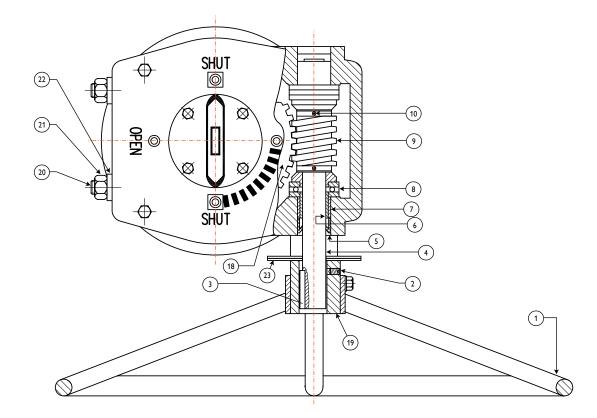


No	Part Name	Material
1	Handwheel	Carbon Steel
2	Set Screw	Carbon Steel
3	Stem Key	Carbon Steel
4	Input Shaft	AISI 1045 + ENP
5	Oil Seal	Rubber
6	Bearing	Cu-Base Alloy
7	Oil Bearing	Cu-Base Alloy
8	Thrust Bearing	Commercial
9	Worm	AISI 1045
10	Pin	Carbon Steel
11	Plug	Carbon Steel
12	Bolt	Carbon Steel
13	Indicator Plate	Cast Iron
14	Bolt	Carbon Steel
15	Cover	Cast Iron
16	Housing	Cast Iron
17	O-Ring	Rubber
18	Worm Gear	Ductile Iron
19	Operating Nut	Carbon Steel
20	Stop Screw	Carbon Steel
21	Hex Nut	Carbon Steel
22	Lock Washer	Carbon Steel
23	Locking Device	Steel + ZP

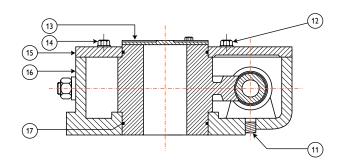
QUICK REFERENCE

Unit Type	Approximate Weight in KG W/O Wheel	Maximum Output Torque NM	Input Torque NM	Unit Ratio	Maximum Square Keyway	Bore Size Rectangular Keyway	Minimum Bore Size MM	Mounting ISO
WG007	14	720	80	42:1	38.1mm WITH 12.7mm X 12.7mm KEYWAY	39.88mm WITH 12.7mm x 9.53mm KEYWAY	15.88	F12

WG008 WORM GEAR OPERATOR



PARTS AND BILL OF MATERIALS

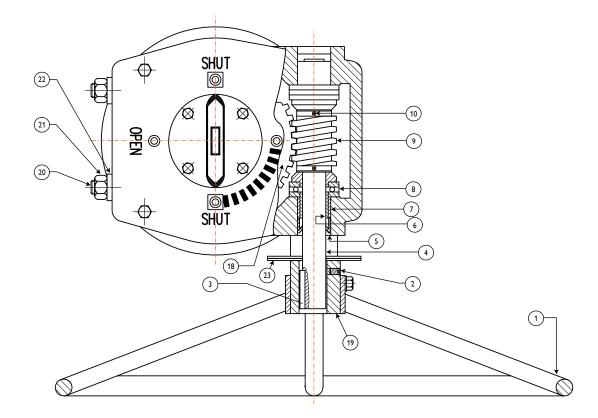


No	Part Name	Material
1	Handwheel	Carbon Steel
2	Set Screw	Carbon Steel
3	Stem Key	Carbon Steel
4	Input Shaft	AISI 1045 + ENP
5	Oil Seal	Rubber
6	Bearing	Cu-Base Alloy
7	Oil Bearing	Cu-Base Alloy
8	Thrust Bearing	Commercial
9	Worm	AISI 1045
10	Pin	Carbon Steel
11	Plug	Carbon Steel
12	Bolt	Carbon Steel
13	Indicator Plate	Cast Iron
14	Bolt	Carbon Steel
15	Cover	Cast Iron
16	Housing	Cast Iron
17	O-Ring	Rubber
18	Worm Gear	Ductile Iron
19	Operating Nut	Carbon Steel
20	Stop Screw	Carbon Steel
21	Hex Nut	Carbon Steel
22	Lock Washer	Carbon Steel
23	Locking Device	Steel + ZP

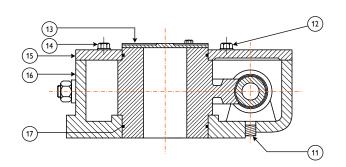
QUICK REFERENCE

Unit Type	Approximate Weight in KG W/O Wheel	Maximum Output Torque NM	Input Torque NM	Unit Ratio	Maximum Square Keyway			Mounting ISO
WG008	14	1219	110	50:1	38.1mm WITH 12.7mm X 12.7mm KEYWAY	39.88mm WITH 12.7mm x 9.53mm KEYWAY	15.88	F14

WG108 WORM GEAR OPERATOR



PARTS AND BILL OF MATERIALS

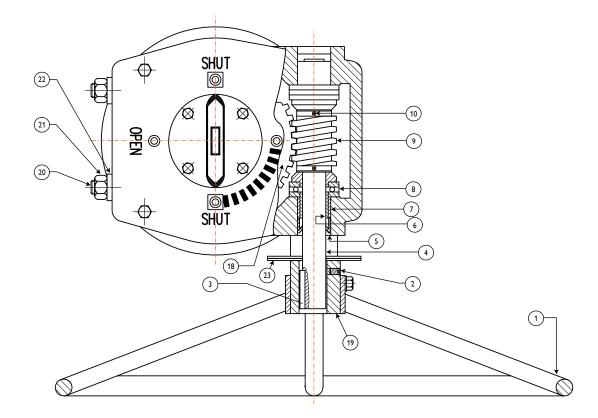


No	Part Name	Material
1	Handwheel	Carbon Steel
2	Set Screw	Carbon Steel
3	Stem Key	Carbon Steel
4	Input Shaft	AISI 1045 + ENP
5	Oil Seal	Rubber
6	Bearing	Cu-Base Alloy
7	Oil Bearing	Cu-Base Alloy
8	Thrust Bearing	Commercial
9	Worm	AISI 1045
10	Pin	Carbon Steel
11	Plug	Carbon Steel
12	Bolt	Carbon Steel
13	Indicator Plate	Cast Iron
14	Bolt	Carbon Steel
15	Cover	Cast Iron
16	Housing	Cast Iron
17	O-Ring	Rubber
18	Worm Gear	Ductile Iron
19	Operating Nut	Carbon Steel
20	Stop Screw	Carbon Steel
21	Hex Nut	Carbon Steel
22	Lock Washer	Carbon Steel
23	Locking Device	Steel + ZP

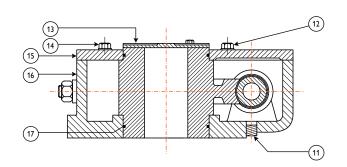
QUICK REFERENCE

Unit Type	Approximate Weight in KG W/O Wheel	Maximum Output Torque NM	Input Torque NM	Unit Ratio	Maximum Square Keyway	1 0		Mounting ISO
WG108	15.5	2200	120	72:1	47.8mm WITH 12.7mm X 12.7mm KEYWAY	49.3mm WITH 12.7mm x 9.53mm KEYWAY	20	F16

WG158 WORM GEAR OPERATOR



PARTS AND BILL OF MATERIALS

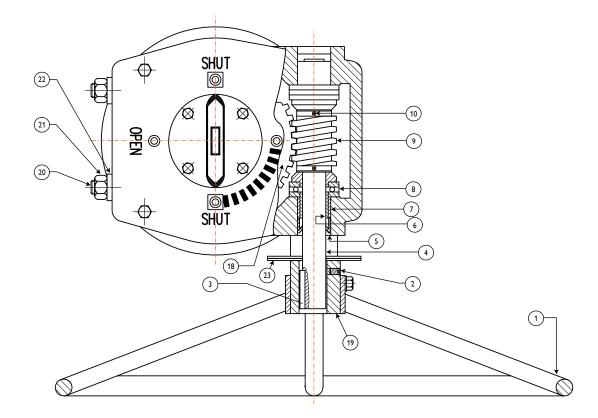


No	Part Name	Material
1	Handwheel	Carbon Steel
2	Set Screw	Carbon Steel
3	Stem Key	Carbon Steel
4	Input Shaft	AISI 1045 + ENP
5	Oil Seal	Rubber
6	Bearing	Cu-Base Alloy
7	Oil Bearing	Cu-Base Alloy
8	Thrust Bearing	Commercial
9	Worm	AISI 1045
10	Pin	Carbon Steel
11	Plug	Carbon Steel
12	Bolt	Carbon Steel
13	Indicator Plate	Cast Iron
14	Bolt	Carbon Steel
15	Cover	Cast Iron
16	Housing	Cast Iron
17	O-Ring	Rubber
18	Worm Gear	Ductile Iron
19	Operating Nut	Carbon Steel
20	Stop Screw	Carbon Steel
21	Hex Nut	Carbon Steel
22	Lock Washer	Carbon Steel
23	Locking Device	Steel + ZP

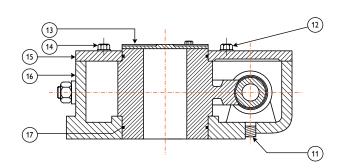
QUICK REFERENCE

Unit Type	Approximate Weight in KG W/O Wheel	Maximum Output Torque NM	Input Torque NM	Unit Ratio	Maximum Square Keyway	Bore Size Rectangular Keyway	Minimum Bore Size MM	Mounting Pattern MSS SP-101
WG158	15.5	2500	150	70:1	47.8mm WITH 12.7mm X 12.7mm KEYWAY	49.3mm WITH 12.7mm x 9.53mm KEYWAY	20	F14

WG208 WORM GEAR OPERATOR



PARTS AND BILL OF MATERIALS

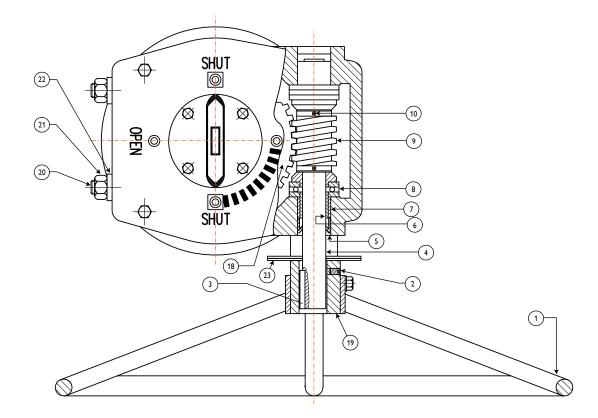


No	Part Name	Material
1	Handwheel	Carbon Steel
2	Set Screw	Carbon Steel
3	Stem Key	Carbon Steel
4	Input Shaft	AISI 1045 + ENP
5	Oil Seal	Rubber
6	Bearing	Cu-Base Alloy
7	Oil Bearing	Cu-Base Alloy
8	Thrust Bearing	Commercial
9	Worm	AISI 1045
10	Pin	Carbon Steel
11	Plug	Carbon Steel
12	Bolt	Carbon Steel
13	Indicator Plate	Cast Iron
14	Bolt	Carbon Steel
15	Cover	Cast Iron
16	Housing	Cast Iron
17	O-Ring	Rubber
18	Worm Gear	Ductile Iron
19	Operating Nut	Carbon Steel
20	Stop Screw	Carbon Steel
21	Hex Nut	Carbon Steel
22	Lock Washer	Carbon Steel
23	Locking Device	Steel + ZP

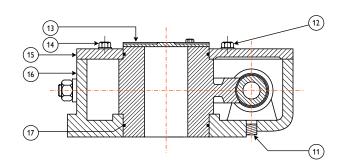
QUICK REFERENCE

Unit Type	Approximate Weight in KG W/O Wheel	Maximum Output Torque NM	Input Torque NM	Unit Ratio	Maximum Square Keyway	1 0		Mounting ISO
WG208	32.73	4475	220	68:1	76.4mm WITH 22mm x 22mm KEYWAY	79.3mm WITH 15.88mm x 11.11mm KEYWAY	38.1mm	ISO F19 & F25

WG238 WORM GEAR OPERATOR



PARTS AND BILL OF MATERIALS

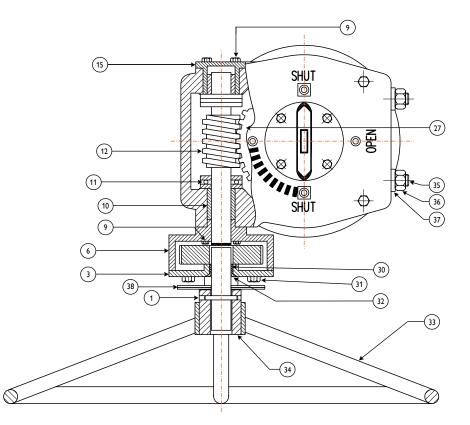


No	Part Name	Material
1	Handwheel	Carbon Steel
2	Set Screw	Carbon Steel
3	Stem Key	Carbon Steel
4	Input Shaft	AISI 1045 + ENP
5	Oil Seal	Rubber
6	Bearing	Cu-Base Alloy
7	Oil Bearing	Cu-Base Alloy
8	Thrust Bearing	Commercial
9	Worm	AISI 1045
10	Pin	Carbon Steel
11	Plug	Carbon Steel
12	Bolt	Carbon Steel
13	Indicator Plate	Cast Iron
14	Bolt	Carbon Steel
15	Cover	Cast Iron
16	Housing	Cast Iron
17	O-Ring	Rubber
18	Worm Gear	Ductile Iron
19	Operating Nut	Carbon Steel
20	Stop Screw	Carbon Steel
21	Hex Nut	Carbon Steel
22	Lock Washer	Carbon Steel
23	Locking Device	Steel + ZP

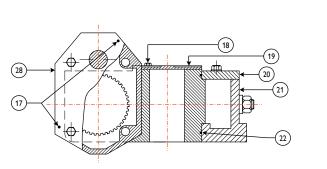
QUICK REFERENCE

Unit Type	Approximate Weight in KG W/O Wheel	Maximum Output Torque NM	Input Torque NM	Unit Ratio	Maximum Bore Size Square Rectangular Keyway Keyway		Minimum Bore Size MM	Mounting ISO
WG238	32.73	6250	170	175:1	76.4mm WITH 22mm x 22mm KEYWAY	79.3mm WITH 15.88mm x 11.11mm KEYWAY	38.1mm	F25

WG308 WORM GEAR OPERATOR



PARTS AND BILL OF MATERIALS

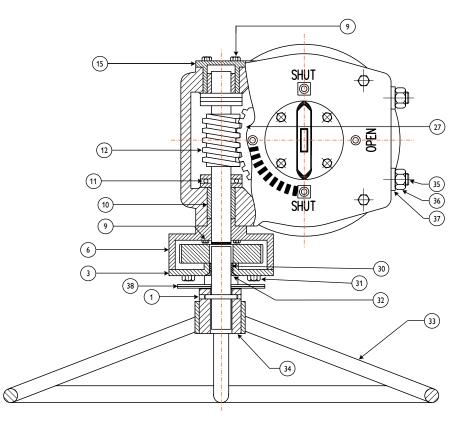


No	Part Name	Qty	Material
1	Slotted Spring Pin	1	Carbon Steel
3	Spur Gear Cover	1	Cast Iron
5	Input Shaft	1	AISI 1045 + ENP
6	Spur Gear Housing	1	Cast Iron
9	Bolt	4	Carbon Steel
10	Bearing	1	Cu-Base Alloy
11	Thrust Bearing	1	Commercial
12	Worm	1	AISI 1045
15	Bearing Block	1	Carbon Steel
17	Locator Pins	2	Carbon Steel
18	Bolt	4	Carbon Steel
19	Indicator Plate	1	Cast Iron
20	Cover	1	Cast Iron
21	Housing	1	Cast Iron
22	O-Ring	2	Rubber
27	Worm Gear	1	Ductile Iron
28	Spur Gear	1	Carbon Steel
30	Bearing	1	Cu-Base Alloy
31	Bolt	4	Carbon Steel
32	Seal Cover	1	Rubber
33	Handwheel	1	Carbon Steel
34	2" SQ. Operating Unit	1	Carbon Steel
35	Stopscrew	2	Carbon Steel
36	Hex Nut	2	Carbon Steel
37	Lockwasher	2	Carbon Steel
38	Locking Device	1	Steel + ZP

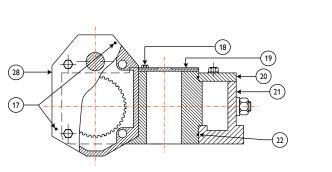
QUICK REFERENCE

Unit Type	Approximate Weight in KG W/O Wheel	Maximum Output Torque NM	Input Torque NM	Unit Ratio	Maximum Square Keyway			Mounting ISO
WG308	93	9800	150	275:1	95.25mm WITH 29.02mm x 29.02mm KEYWAY	101.6mm WITH 25.4mm x 19.05mm KEYWAY	57.15mm	F25

WG358 WORM GEAR OPERATOR



PARTS AND BILL OF MATERIALS

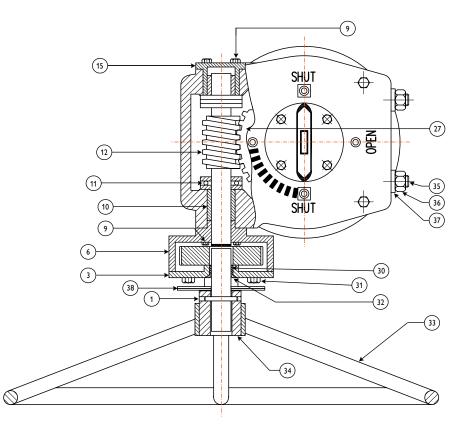


No	Part Name	Qty	Material
1	Slotted Spring Pin	1	Carbon Steel
3	Spur Gear Cover	1	Cast Iron
5	Input Shaft	1	AISI 1045 + ENP
6	Spur Gear Housing	1	Cast Iron
9	Bolt	4	Carbon Steel
10	Bearing	1	Cu-Base Alloy
11	Thrust Bearing	1	Commercial
	Worm	1	AISI 1045
15	0	1	Carbon Steel
17	Locator Pins	2	Carbon Steel
18		4	Carbon Steel
19	Indicator Plate	1	Cast Iron
20	Cover	1	Cast Iron
21		1	Cast Iron
22		2	Rubber
27	Worm Gear	1	Ductile Iron
28	Spur Gear	1	Carbon Steel
30	Bearing	1	Cu-Base Alloy
31	Bolt	4	Carbon Steel
32		1	Rubber
33	Handwheel	1	Carbon Steel
34	2" SQ. Operating Unit	1	Carbon Steel
35	Stopscrew	2	Carbon Steel
36	Hex Nut	2	Carbon Steel
37	Lockwasher	2	Carbon Steel
38	Locking Device	1	Steel + ZP

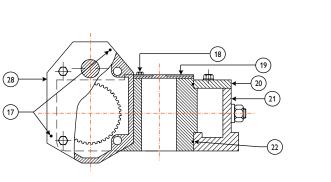
QUICK REFERENCE

Unit Type	Approximate Weight in KG W/O Wheel	Maximum Output Torque NM	Input Torque NM	Unit Ratio	Maximum Square Keyway	Bore Size Rectangular Keyway	Minimum Bore Size MM	Mounting ISO
WG358	93	18000	170	532:1	95.25mm WITH 29.02mm x 29.02mm KEYWAY	101.6mm WITH 25.4mm x 19.05mm KEYWAY	57.15mm	F30

WG408 WORM GEAR OPERATOR



PARTS AND BILL OF MATERIALS



No	Part Name	Qty	Material
1	Slotted Spring Pin	1	Carbon Steel
3	Spur Gear Cover	1	Cast Iron
5	Input Shaft	1	AISI 1045 + ENP
6	Spur Gear Housing	1	Cast Iron
9	Bolt	4	Carbon Steel
10	Bearing	1	Cu-Base Alloy
11	Thrust Bearing	1	Commercial
12	Worm	1	AISI 1045
15	Bearing Block	1	Carbon Steel
17	Locator Pins	2	Carbon Steel
18	Bolt	4	Carbon Steel
19	Indicator Plate	1	Cast Iron
20	Cover	1	Cast Iron
21	Housing	1	Cast Iron
22	O-Ring	2	Rubber
27	Worm Gear	1	Ductile Iron
28	Spur Gear	1	Carbon Steel
30	Bearing	1	Cu-Base Alloy
31	Bolt	4	Carbon Steel
32	Seal Cover	1	Rubber
33	Handwheel	1	Carbon Steel
34	2" Sq. Operating Unit	1	Carbon Steel
35	Stopscrew	2	Carbon Steel
36	Hex Nut	2	Carbon Steel
37	Lockwasher	2	Carbon Steel
38	Locking Device	1	Steel + ZP

QUICK REFERENCE

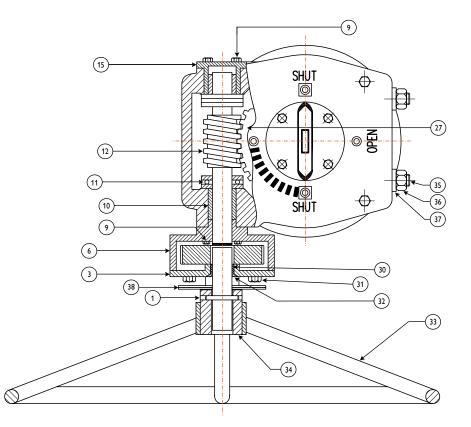
Unit Type	Approximate Weight in KG W/O Wheel	Maximum Output Torque NM	Input Torque NM	Unit Ratio	Maximum Square Keyway	Bore Size Rectangular Keyway	Minimum Bore Size MM	Mounting ISO
WG408	207	32000	190	700:1	143mm WITH 38.1mm x 38.1mm KEYWAY	155.45mm WITH 38.1mm x 25.4mm KEYWAY	74.93mm	F35

WG448 WORM GEAR OPERATOR

18)

19

(22)



No

PARTS AND BILL OF MATERIALS

Part Name Qty

1	Slotted Spring Pin	1	Carbon Steel
3	Spur Gear Cover	1	Cast Iron
5	Input Shaft	1	AISI 1045 + ENP
6	Spur Gear Housing	1	Cast Iron
9	Bolt	4	Carbon Steel
10	Bearing	1	Cu-Base Alloy
11	Thrust Bearing	1	Commercial
12	Worm	1	AISI 1045
15		1	Carbon Steel
17	Locator Pins	2	Carbon Steel
18	Bolt		Carbon Steel
19	Indicator Plate	1	Cast Iron
20	Cover		Cast Iron
21	Housing		Cast Iron
22	O-Ring	2	Rubber
27	Worm Gear	1	Ductile Iron
-			Carbon Steel
			Cu-Base Alloy
-			Carbon Steel
			Rubber
			Carbon Steel
-			Carbon Steel
			Carbon Steel
		—	Carbon Steel
37	Lockwasher		Carbon Steel
38	Locking Device	1	Steel + ZP
	3 5 6 9 10 11 12 15 17 18 19 20 21 22 27 28 30 31 32 33 34 35 36	 3 Spur Gear Cover 5 Input Shaft 6 Spur Gear Housing 9 Bolt 10 Bearing 11 Thrust Bearing 12 Worm 15 Bearing Block 17 Locator Pins 18 Bolt 19 Indicator Plate 20 Cover 21 Housing 22 O-Ring 27 Worm Gear 28 Spur Gear 30 Bearing 31 Bolt 32 Seal Cover 33 Handwheel 34 2" Sq. Operating Unit 35 Stopscrew 36 Hex Nut 37 Lockwasher 	3 Spur Gear Cover 1 5 Input Shaft 1 6 Spur Gear Housing 1 9 Bolt 4 10 Bearing 1 11 Thrust Bearing 1 12 Worm 1 15 Bearing Block 1 17 Locator Pins 2 18 Bolt 4 19 Indicator Plate 1 20 Cover 1 21 Housing 1 22 O-Ring 2 27 Worm Gear 1 28 Spur Gear 1 30 Bearing 1 31 Bolt 4 32 Seal Cover 1 33 Handwheel 1 34 2" Sq. Operating Unit 1 35 Stopscrew 2 36 Hex Nut 2 37 Lockwasher 2 <



(28)

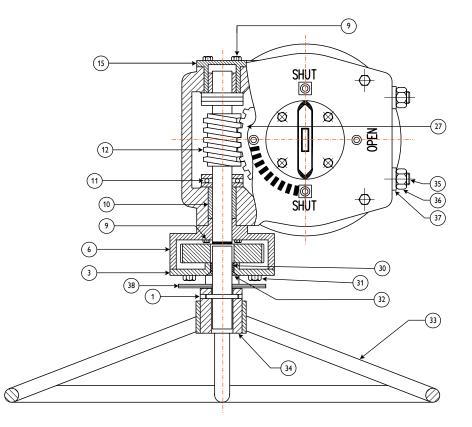
(17)

Unit Type	Approximate Weight in KG W/O Wheel	Maximum Output Torque NM	Input Torque NM	Unit Ratio	Maximum Square Keyway	Bore Size Rectangular Keyway	Minimum Bore Size MM	Mounting ISO
WG448	207	42000	165	1233:1	143mm WITH 38.1mm x 38.1mm KEYWAY	155.45mm WITH 38.1mm x 25.4mm KEYWAY	74.93mm	F35

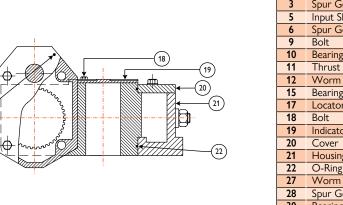
* Other drillings on request

Material

WG508 WORM GEAR OPERATOR



PARTS AND BILL OF MATERIALS



No	Part Name	Qty	Material
1	Slotted Spring Pin	1	Carbon Steel
3	Spur Gear Cover	1	Cast Iron
5	Input Shaft	1	AISI 1045 + ENP
6	Spur Gear HO	1	Cast Iron
9	Bolt	4	Carbon Steel
10	Bearing	1	Cu-Base Alloy
11	Thrust Bearing	1	Commercial
12	Worm	1	AISI 1045
15	Bearing Block	1	Carbon Steel
17	Locator Pins	2	Carbon Steel
18	Bolt	4	Carbon Steel
19	Indicator Plate	1	Cast Iron
20	Cover	1	Cast Iron
21	Housing	1	Cast Iron
22	O-Ring	2	Rubber
27	Worm Gear	1	Ductile Iron
28	Spur Gear	1	Carbon Steel
30	Bearing	1	Cu-Base Alloy
31	Bolt	4	Carbon Steel
32		1	Rubber
33	Handwheel	1	Carbon Steel
34	2" Sq. Operating Unit	1	Carbon Steel
35	Stopscrew	2	Carbon Steel
36	Hex Nut	2	Carbon Steel
37	Lockwasher	2	Carbon Steel
38	Locking Device	1	Steel + ZP

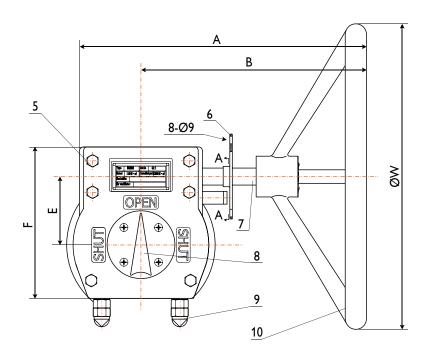
QUICK REFERENCE

Unit Type	Approximate Weight in KG W/O Wheel	Maximum Output Torque NM	Input Torque NM	Unit Ratio	Maximum Square Keyway	Bore Size Rectangular Keyway	Minimum Bore Size MM	Mounting ISO
WG508	316	60000	190	1254:1	218mm WITH 50mm x 50mm KEYWAY	230mm WITH 50mm x 38mm KEYWAY	89mm	F40

(28)

(17)

DC SERIES WORM GEAR OPERATOR



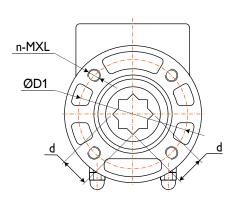
PARTS AND BILL OF MATERIALS

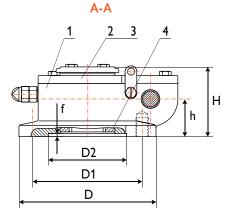
No.	Part Name	Materials
1	Gear Body	ASTM A536 65-45-12
2	Cover	ASTM A536 65-45-12
3	O-Ring	NBR
4	Gear	ASTM A536 65-45-12
5	Bolt	8.8
6	Locking Device	1025
7	Shaft	1045 + Nitrided
8	Position Indicator	A36
9	Adjusting Screw	8.8
10	Handwheel	ASTM A536 65-45-12

PERFORMANCE

Model	Speed	Torque	Torque	
Model	Ratio	Input	Output	amplification factor ± 10%
DGAB24	24:1	60	430	7.2
DGAB36	36:1	75	800	10.7
DGAB41	41:1	110	1350	12.3
DGAB47	47:1	160	2000	12.5

TOP VIEW







DIMENSIONS (MM)

Model	D	D1	D2	f	n-MXL	d	Α	В	E	F	н	h	W	Weight (kg)
DGAB24 F07 14	90	70	55	3	4-M8X12	14								
DGAB24 F10 17	125	102	70	3	4-M10X15	17	256	211	44.5	116	67	31	250	4.5
DGAB24 F10 22	125	102	70	3	4-M10X15	22								
DGAB36 F12 27	150	125	85	3	4-M12X18	27	273	218	61.5	138	80	41	320	6.5
DGAB41 F12 27	175	125	85	3	4-M12X18	27	338	266	80.5	179	90	48	360	11.5
DGAB47 F12 27	175	125	85	3	4-M12X18	27	338	266	89.5	185	95	54	460	12.5
DGAB36 F10 22	125	102	70	3	4-M10X15	22	273	220	61.5	138	80	41	320	6.5
DGAB41 F14 36	175	140	100	4	4-M16X24	36	338	266	80.5	179	90	54	320	11.5
DGAB47 F14 36	175	140	100	4	4-M16X24	36	338	266	89.5	185	95	54	320	12.5
DGAB47 F14 36	175	140	100	4	4-M16X24	36	410	340	07.5	165	73	54	320	12.7

MOS SERIES DECLUTCHABLE GEAR OVERRIDE

HEAVY DUTY QUARTER TURN WORM TYPE GEAR OVER-RIDE

FEATURES

- Compact and light weight
- There are two keyway 90° apart to allow mounting east-west or north-south.
- Pull out the positioning pin & rotate the off-centre device 180° to engage the gearbox, disengage the opposite way.
- The gear operator is filled with a special lubricant. The gearbox is a sealed unit and is dust proof & waterproof and made to IP65.
- The bottom of gear operator should be connected to the valve (bracket mounting), the top is connected to the actuator with the valve stem going through the inner hole of worm gear and the square on the end of stem then inserts into the square hole of the actuator cylinder.
- The unit can be switched between manual gear & automatic actuator operation but does not allow engagement of both devices at the same time. The cylinder of the gear operator engages to the valve stem & disengages the actuator in one position, then in the other position this is reversed.

MO Series manual override is an emergency device for the opening and closing of a valve in case of a pneumatic actuator failure. It's self-locking worm gear design provides safe & easy operation for transferring between control & manual operation.

The MO Series declutchable gear operators provide an easy and reliable method of direct manual operation that can be utilised to over-ride the actuator as emergency control on air failure, or as a local control in the event of controller malfunction. When the hand wheel is clutched in, the valve is then under local manual control and the remote control is 'locked out'.



APPLICABLE STANDARDS

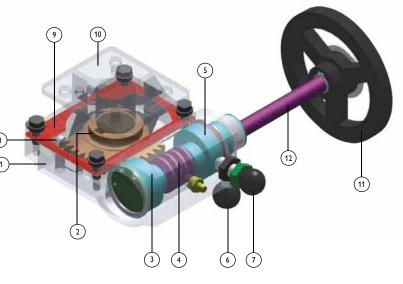
 Model
 MOS-1 / MOS-2 / MOS-3 / MOS-4 / MOS-5 / MOS-7 / MOS-8

 Torque Range
 100 to 9800 Nm

 Temperature
 -20°C to +80°C

 Stroke Adjustment
 ±10

 Movement
 0° to 90°



MATERIALS

No.	Part Name	Material
1	Housing	Aluminium / Ductile Iron
2	Worm Wheel	SGI 600
3	Eccentric Bush Bear	EN8 Alloy Steel + ZP
4	Worm Shaft	EN8 Alloy Steel + ZP
5	Eccentric Bush H/W Side	EN8 Alloy Steel + ZP
6	Selector	Steel

No.	Part Name	Material
7	On/Off Lever	EN8 ZP Alloy Steel
8	Limit Stop	EN8 ZP Alloy Steel
9	Gasket	CNAF / Viton
10	Top Cover	Aluminium / Ductile Iron
11	Hand Wheel	Aluminium
12	Stem	EN8 Alloy Steel + ENP



COMPLETE **PRODUCT LINE**

"Australian Pipeline Valve produces isolation, control and flow reversal protection products for severe and critical service media in utility, steam, pipelines, oil & gas and process industries. **APV** valves and pipeline products form the most competitive portfolio in the market."





SUPER CHECK



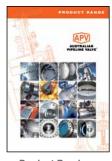
TORQTURN

TWIN-LOK[®]

UNIFLO[®]

IIAMOND GEAR®

AUSTRALIAN PIPELINE VALVE BRAND RANGE - CATALOGUES



Product Brochure



Gate, Globe & Check Valves - Cast Steel





Gate, Globe & Check Valves - Forged Steel



Floating Small Bore



Plug Valves Lubricated, Sleeved & Lined



Ball Valves Special Service



Oilfield Products Valves & Wellheads

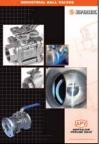
APV FAMILY OF BRANDS RANGE - CATALOGUES



Diamond Gear Gearboxes



Flowturn Strainers & Sight Glasses







Steamco

Steam Valves

Flowturn Ball Valves

Multiway & Deadman

Toraturn Actuators



Flowturn Gate, Globe & Check Valves



Supercheck Wafer Check Valves



TwinLok Tube Fittinas



Flowturn Instrument Valves



Superseal Butterfly Valves



Uniflo Check Valves

Contact us for your local stockist/distributor





View our catalogues at www.australianpipelinevalve.com.au







www.australianpipelinevalve.com.au

LOCAL DISTRIBUTOR



We have endeavoured to provide a broad outline of our range and capabilities. Because we are continually developing new products for our customers this catalogue will, to some extent be incomplete. This catalogue is a general overview only, individual drawings and data sheets can be furnished on request.

If you have any requirement in the field of valves and accessories, please contact us for a prompt response. Continuous development of Australian Pipeline Valve products may necessitate changes in the design or manufacturing processes. Australian Pipeline Valve reserves the right to effect any such changes without prior notice.

