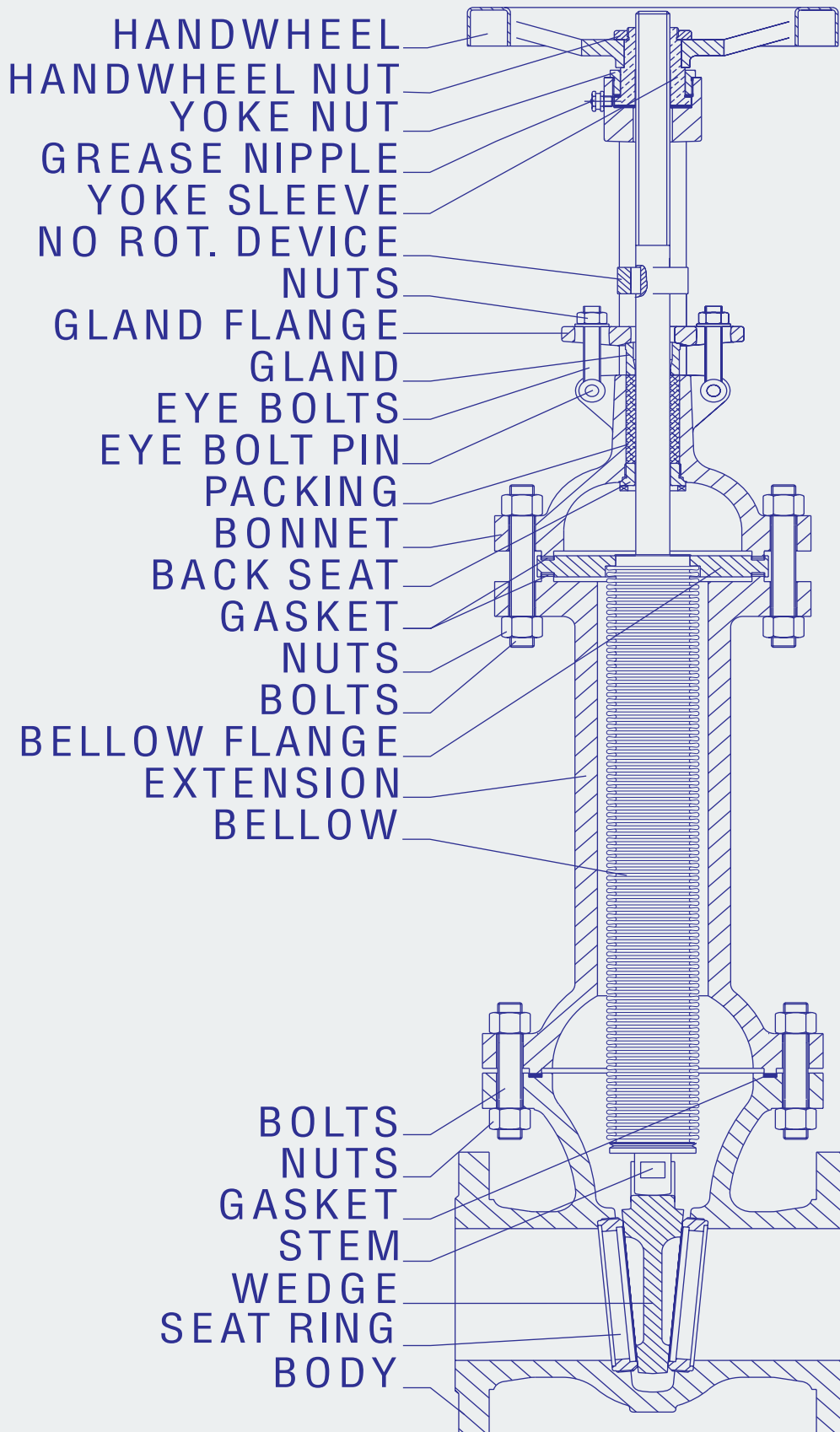
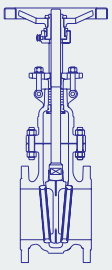
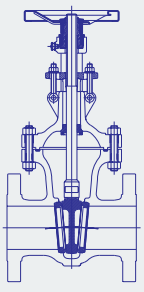
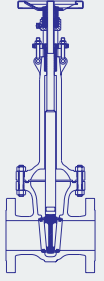
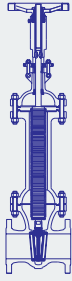
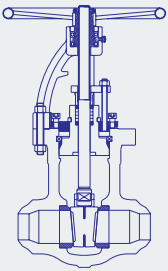


## DESCRIPTION OF A TYPICAL GATE VALVE - BELLOW SEAL



	<b>TYPE</b>	<b>CLASS</b>	<b>SIZES</b>	<b>FIG. N</b>
	<b>GATE VALVES BOLTED BONNET OVAL TYPE</b>	PN 16 - F4	50 - 900	<b>1180</b>
		PN 16 - F5	50 - 1400	<b>1190</b>
<p style="text-align: right;">page 60</p>				
	<b>GATE VALVES BOLTED BONNET ROUND TYPE</b>	PN 16	50 - 1400	<b>1200</b>
		PN 25	50 - 1400	<b>1210</b>
		PN 40	50 - 1000	<b>1220</b>
		PN 63	50 - 600	<b>1230</b>
		PN 100	50 - 600	<b>1240</b>
		PN 160	50 - 400	<b>1250</b>
<p style="text-align: right;">page 62</p>				
	<b>GATE VALVES CRYOGENIC EXTENDED BONNET</b>	PN 16	50 - 600	<b>1200EB</b>
		PN 25	50 - 600	<b>1210EB</b>
		PN 40	50 - 600	<b>1220EB</b>
		PN 63	50 - 600	<b>1230EB</b>
		PN 100	50 - 600	<b>1240EB</b>
<p style="text-align: right;">page 64</p>				
	<b>GATE VALVES BELLOW SEAL</b>	PN 16	50 - 600	<b>1200SO</b>
		PN 25	50 - 600	<b>1210SO</b>
		PN 40	50 - 600	<b>1220SO</b>
		PN 63	50 - 600	<b>1230SO</b>
		PN 100	50 - 600	<b>1240SO</b>
<p style="text-align: right;">page 66</p>				
	<b>GATE VALVES PRESSURE SEAL</b>	PN 100	50 - 600	<b>P24</b>
		PN 160	50 - 600	<b>P25</b>
		PN 250	50 - 600	<b>P26</b>
		PN 320	50 - 600	<b>P27</b>
		PN 420	50 - 600	<b>P28</b>
<p style="text-align: right;">page 68</p>				

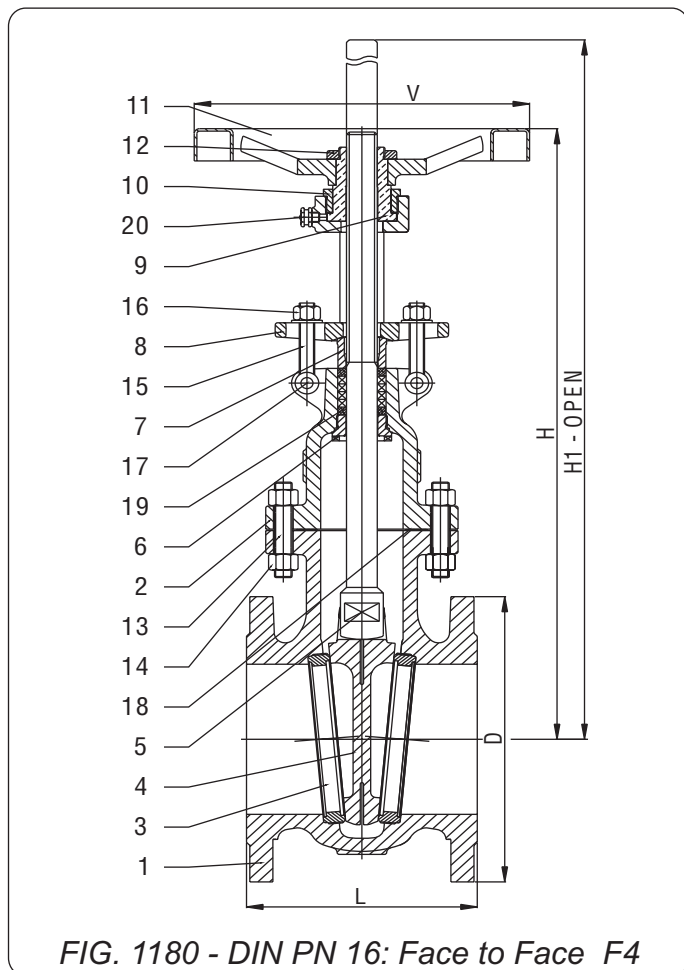


FIG. 1180 - DIN PN 16: Face to Face F4

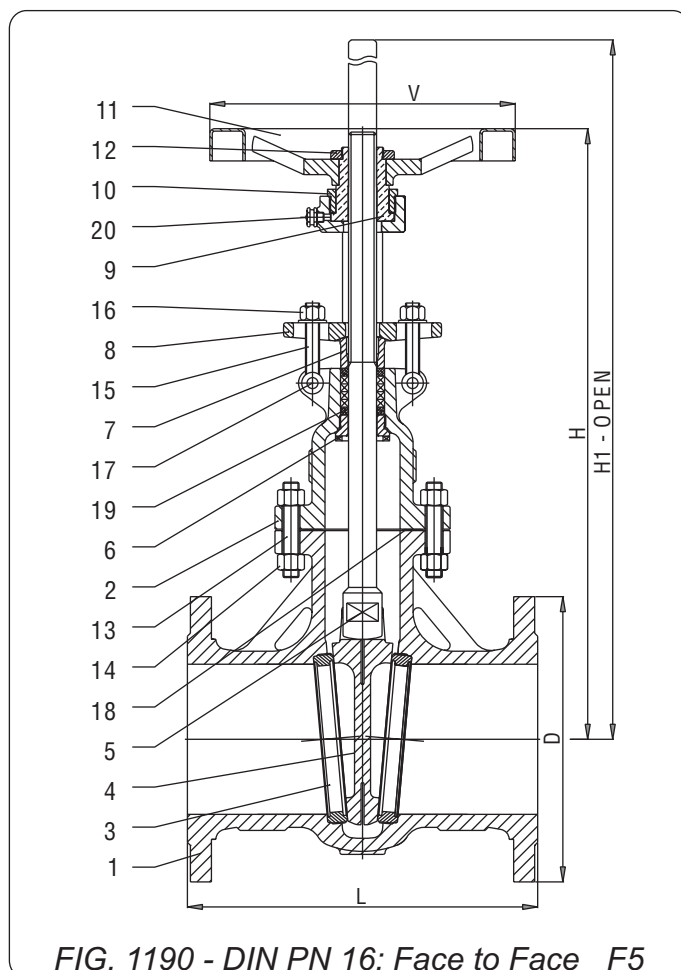


FIG. 1190 - DIN PN 16: Face to Face F5

PART NAME	A1180 - A1190	C1180 - C1190	FH1180 - FH1190	FK1180 - FK1190
1 Body	1.0619	1.7365	1.4552	1.4581
2 Bonnet	1.0619	1.7365	1.4552	1.4581
3 Seat ring surface	X20Cr13 (1)	X20Cr13 + HF (1)	X6CrNiTi18-10 (1)	X5CrNiMo17-12-2 (1)
4 Wedge seat surfaces	X20Cr13 (2)	X20Cr13 + HF (2)	X6CrNiTi18-10 (2)	X5CrNiMo17-12-2 (2)
5 Stem	X20Cr13 (3)	X20Cr13 (3)	X6CrNiTi18-10 (3)	X5CrNiMo17-12-2 (3)
6 Back seat	X20Cr13 (3)	X20Cr13 (3)	X6CrNiTi18-10 (3)	X5CrNiMo17-12-2 (3)
7 Gland	X20Cr13 (3)	X20Cr13 (3)	X6CrNiTi18-10 (3)	X5CrNiMo17-12-2 (3)
8 Gland flange	1.0460	X5CrNiMo17-12-2	X6CrNiTi18-10	X5CrNiMo17-12-2
9 Yoke sleeve	MS58 (4)	MS58 (4)	MS58 (4)	MS58 (4)
10 Yoke nut	1.0460	1.0460	X6CrNiTi18-10	X5CrNiMo17-12-2
11 Handwheel (*)		← Steel →		
12 Handwheel nut	1.0460	1.0460	X6CrNiTi18-10	X5CrNiMo17-12-2
13 Bolts	CK35	21CrMoV57	A2-70	A2-70
14 Nuts	C35	24CrMo5	A2-70	A2-70
15 Eye bolts	CK35	24CrMo5	A2-70	A2-70
16 Nuts	C35	24CrMo5	A2-70	A2-70
17 Eye bolt pin	CK35	24CrMo5	A2-70	A2-70
18 Gasket		← S.S. reinforced graphite (5) →		
19 Packing		← Graphite rings & wiper rings (6) →		
20 Grease nipple		← Steel →		

(1) On request: faced with Stellite® - Monel® - Hastelloy® - other materials

(2) On request: faced with Stellite® - Monel® - Hastelloy® - other materials

(3) On request: 17 Cr - Monel® - Hastelloy® - other materials

(\*) Gear operator recommended from DN 500.

(4) On request: GGG50 - Nitronic 60

(5) On request: PTFE - other materials

(6) On request: PTFE - other materials

All data, subject to technical changes, are only for information and not for official use.

# GATE VALVES OVAL BODY

## DIN PN 16 - F4 - DIN PN 16 - F5

**VALVOSIDER**  
MANUFACTURER OF VALVES

**FIG. N. 1180 - GATE VALVES OVAL BODY DIN PN 16 - Face to Face F4**

SIZE DN	50	65	80	100	125	150	200	250	300	350	400	500	600	700	800	900	--	--	--	--
<b>L RF/BW</b>	150	170	180	190	200	210	230	250	270	290	310	350	390	430	470	510	--	--	--	--
<b>D</b>	165	185	200	220	250	285	340	405	460	520	580	715	840	910	1025	1125	--	--	--	--
<b>V</b>	200	200	225	250	280	300	400	500	500	600	600	600	600	1000	1200	1200	--	--	--	--
<b>H</b>	350	420	500	520	610	700	900	1050	1200	1400	1580	1900	2300	2600	3200	4400	--	--	--	--
<b>H1</b>	415	495	580	620	720	840	1100	1300	1540	1750	1980	2450	3000	3500	4100	5500	--	--	--	--

**FIG. N. 1190 - GATE VALVES OVAL BODY DIN PN 16 - Face to Face F5**

SIZE DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400
<b>L RF/BW</b>	250	270	280	300	325	350	400	450	500	550	600	650	700	800	900	1000	1100	1200	1400	1600
<b>D</b>	165	185	200	220	250	285	340	405	460	520	580	640	715	840	910	1025	1125	1255	1485	1685
<b>V</b>	200	200	225	250	280	300	400	500	500	600	600	600	600	600	1000	1200	1200	1200	1400	1400
<b>H</b>	350	430	500	520	610	700	900	1050	1200	1400	1580	1750	1900	2300	2600	3200	4400	4700	5200	6200
<b>H1</b>	415	495	580	620	720	840	1100	1300	1540	1750	1980	2200	2450	3000	3500	4100	5500	5900	6600	7900

*standard features*

- Description** OVAL BODY  
BOLTED BONNET  
OUTSIDE SCREW AND YOKE  
RISING STEM  
NON RISING HANDWHEEL  
FLEXIBLE WEDGE  
RENEWABLE SEATS
- Design** DIN 3352  
DIN 3840
- Face to face** DIN 3202
- Flanges** DIN 2501  
DIN 2543  
DIN 2526 FORM E  
BW TO DIN 3239
- Testing** DIN 3352 Part 1  
DIN 3230 Part 3
- Rating** DIN 2401
- Marking** EN 19  
CE - PED
- Certificates** EN 10204 – 3.1 B

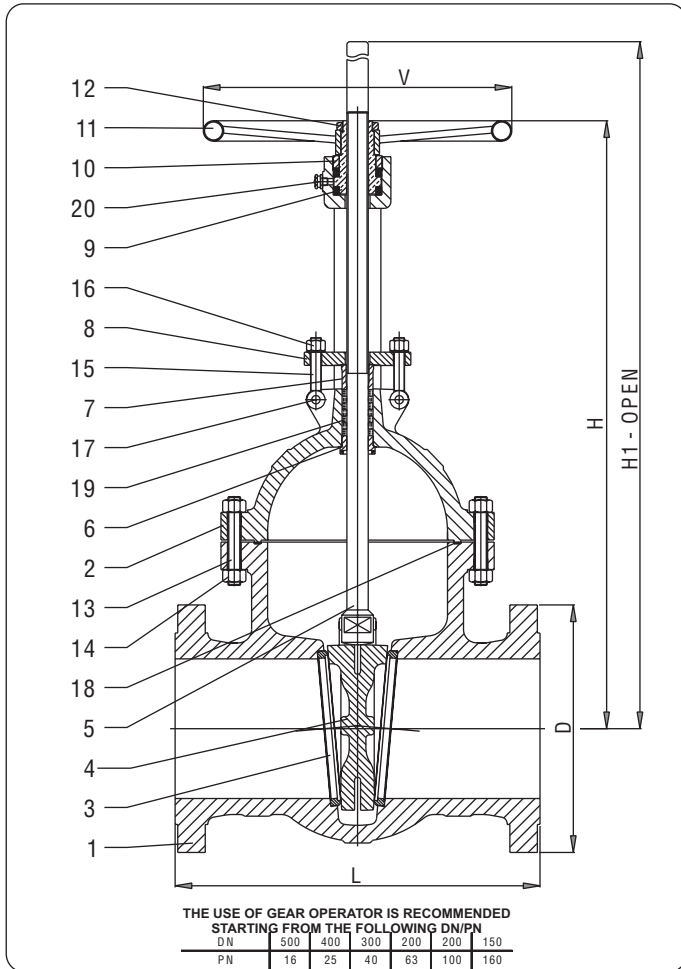
*features on request*

- TOP FLANGE TO ISO 5210
- GEAR OPERATOR
- CHAIN WHEEL OPERATOR
- PNEUMATIC ACTUATOR
- HYDRAULIC ACTUATOR
- ELECTRIC ACTUATOR
- POSITION INDICATOR
- LIMIT SWITCHES
- LOCKING / INTERLOCK SYSTEM
- PTFE SOFT SEATS
- STEM PROTECTION
- STEM EXTENSION
- LANTERN RING
- EXTENDED STUFFING BOX
- LIVE LOADED PACKING
- DRAIN PLUG
- BY PASS
- BW ENDS
- ANSI CONNECTIONS

All dimensions in mm (except where differently indicated)

All data, subject to technical changes, are only for information and not for official use.

VALVOSIDER s.r.l. - Via S. Rocco, 2 - P.O. BOX 76 - 13011 Borgosesia (VC) - Italy  
Phone: +39016322991 - Fax: +39016321537 - www.valvosider.com - e-mail: valvo@valvosider.com



*standard features*

- **Description** ROUND BODY  
BOLTED BONNET  
OUTSIDE SCREW AND YOKE  
RISING STEM  
NON RISING HANDWHEEL  
FLEXIBLE WEDGE  
RENEWABLE SEATS
- **Design** DIN 3352  
DIN 3840
- **Face to face** DIN 3202
- **Flanges** DIN 2501  
DIN 2547  
DIN 2526 FORM E  
BW TO DIN 3239
- **Testing** DIN 3352 Part 1  
DIN 3230 Part 3
- **Rating** DIN 2401
- **Marking** EN 19  
CE - PED
- **Certificates** EN 10204 - 3.1 B

PART NAME	A12xx	C12xx	FH12xx	FK12xx
1 Body	1.0619	1.7365	1.4552	1.4581
2 Bonnet	1.0619	1.7365	1.4552	1.4581
3 Seat ring surface	X20Cr13 (1)	X20Cr13 + HF (1)	X6CrNiTi18-10 (1)	X5CrNiMo17-12-2 (1)
4 Wedge seat surfaces	X20Cr13 (2)	X20Cr13 + HF (2)	X6CrNiTi18-10 (2)	X5CrNiMo17-12-2 (2)
5 Stem	X20Cr13 (3)	X20Cr13 (3)	X6CrNiTi18-10 (3)	X5CrNiMo17-12-2 (3)
6 Back seat	X20Cr13 (3)	X20Cr13 (3)	X6CrNiTi18-10 (3)	X5CrNiMo17-12-2 (3)
7 Gland	X20Cr13 (3)	X20Cr13 (3)	X6CrNiTi18-10 (3)	X5CrNiMo17-12-2 (3)
8 Gland flange	1.0460	X5CrNiMo17-12-2	X6CrNiTi18-10	X5CrNiMo17-12-2
9 Yoke sleeve	MS58 (4)	MS58 (4)	MS58 (4)	MS58 (4)
10 Yoke nut	1.0460	1.0460	X6CrNiTi18-10	X5CrNiMo17-12-2
11 Handwheel		← Steel →		
12 Handwheel nut	1.0460	1.0460	X6CrNiTi18-10	X5CrNiMo17-12-2
13 Bolts	CK35	21CrMoV57	A2-70	A2-70
14 Nuts	C35	24CrMo5	A2-70	A2-70
15 Eye bolts	CK35	24CrMo5	A2-70	A2-70
16 Nuts	C35	24CrMo5	A2-70	A2-70
17 Eye bolt pin	CK35	24CrMo5	A2-70	A2-70
18 Gasket		← S.S. Reinforced graphite (5) →		
19 Packing		← Graphite rings & wiper rings (6) →		
20 Grease nipple		← Steel →		

(1) On request: faced with Stellite® - Monel® - Hastelloy® - other materials  
 (2) On request: faced with Stellite® - Monel® - Hastelloy® - other materials  
 (3) On request: 17 Cr - Monel® - Hastelloy® - other materials

(4) On request: GGG50 - Nitronic 60  
 (5) On request: PTFE - other materials  
 (6) On request: PTFE - other materials

All data, subject to technical changes, are only for information and not for official use.

# GATE VALVES ROUND BODY

## DIN PN 16 - 25 - 40 - 63 - 100 - 160

**VALVOSIDER**  
MANUFACTURER OF VALVES

**FIG. N. 1200 - GATE VALVES DIN PN 16 - Face to Face F5**

SIZE DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400
L RF/BW	250	270	280	300	325	350	400	450	500	550	600	650	700	800	900	1000	1100	1200	1400	1600
D	165	185	200	220	250	285	340	405	460	520	580	640	715	840	910	1025	1125	1255	1485	1685
V	200	200	225	250	280	300	400	500	500	600	600	600	600	600	1000	1200	1200	1200	1400	1400
H	400	420	500	520	610	620	780	1050	1200	1400	1580	1750	1900	2300	2600	3200	4400	4700	5200	6200
H1	470	495	580	620	720	760	980	1300	1540	1750	1980	2200	2450	3000	3500	4100	5500	5900	6600	7900

**FIG. N. 1210 - GATE VALVES DIN PN 25 - Face to Face F5**

SIZE DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400
L RF/BW	250	270	280	300	325	350	400	450	500	550	600	650	700	800	900	1000	1100	1200	1400	1600
D	165	185	200	235	270	300	360	425	485	555	620	670	730	845	960	1085	1185	1320	1530	1755
V	200	200	225	250	280	300	400	500	500	600	600	600	600	600	1000	1200	1200	1200	1400	1400
H	400	430	500	520	610	700	900	1050	1200	1400	1580	1750	1900	2300	2600	3200	4400	4700	5200	6200
H1	470	495	580	620	720	840	1100	1300	1540	1750	1980	2200	2450	3000	3500	4100	5500	5900	6600	7900

**FIG. N. 1220 - GATE VALVES DIN PN 40 - Face to Face F7**

SIZE DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	--	--
L RF/BW	250	290	310	350	400	450	550	650	750	850	950	1050	1150	1350	1550	1750	1950	2150	--	--
D	165	185	200	235	270	300	375	450	515	580	660	685	755	890	995	1140	1250	1360	--	--
V	200	200	225	250	300	400	500	500	600	700	700	800	1000	1200	1200	1400	1400	1400	--	--
H	400	430	500	520	610	700	900	1050	1200	1400	1580	1750	1900	2300	2600	3200	4400	4700	--	--
H1	470	495	580	620	720	840	1100	1300	1540	1750	1980	2200	2450	3000	3500	4100	5500	5900	--	--

**FIG. N. 1230 - GATE VALVES DIN PN 63 - Face to Face F7**

SIZE DN	50	65	80	100	125	150	200	250	300	350	400	500	600
L RF/BW	250	290	310	350	400	450	550	650	750	850	950	1150	1350
D	180	205	215	250	295	345	415	470	530	600	670	800	930
V	200	250	250	400	400	500	600	700	700	800	1000	1000	1200
H	450	500	540	670	685	810	970	1155	1330	1500	1680	2100	2400
H1	500	570	620	780	810	980	1180	1420	1660	1880	2100	2650	3100

**FIG. N. 1240 - GATE VALVES DIN PN 100 - Face to Face F7**

SIZE DN	50	65	80	100	125	150	200	250	300	350	400	500	600
L RF/BW	250	290	310	350	400	450	550	650	750	850	950	1150	1350
D	195	220	230	265	315	355	430	505	585	655	715	870	990
V	200	250	250	400	400	500	600	700	700	800	1000	1000	1200
H	450	500	540	670	685	810	970	1155	1330	1500	1680	2100	2400
H1	500	570	620	780	810	980	1180	1420	1660	1880	2100	2650	3100

**FIG. N. 1250 - GATE VALVES DIN PN 160 - Face to Face F8**

SIZE DN	50	65	80	100	125	150	200	250	300	350	400	--	--
L RF/BW	300	360	390	450	525	600	750	900	1050	1200	1350	--	--
D	195	220	230	265	315	355	430	505	585	655	715	--	--
V	200	250	250	400	400	500	600	700	700	800	1000	--	--
H	450	500	540	670	685	810	970	1155	1330	1500	1680	--	--
H1	500	570	620	780	810	980	1180	1420	1660	1880	2100	--	--

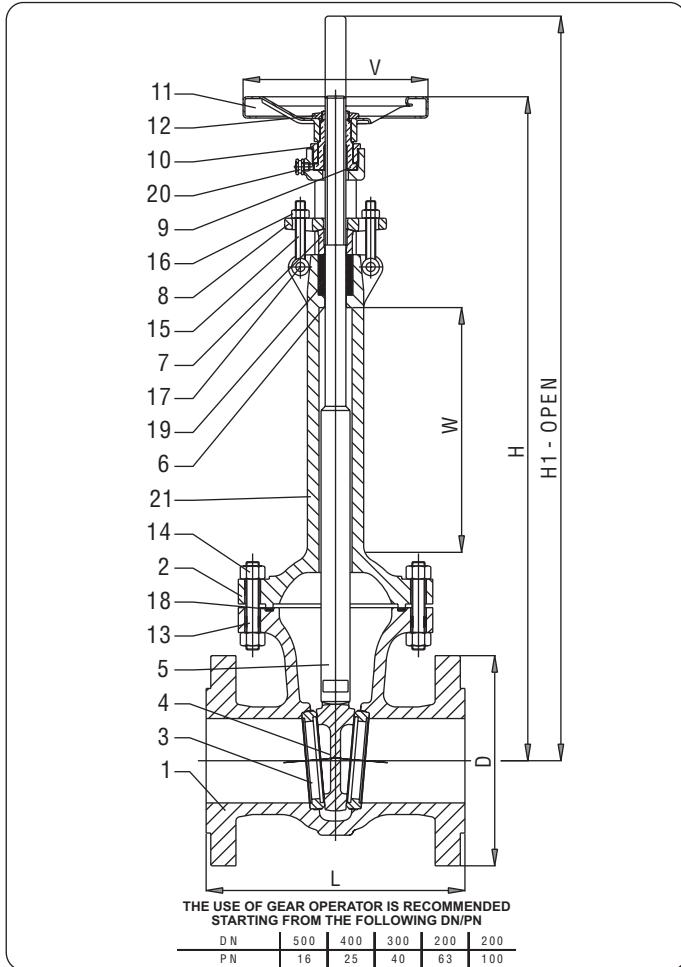
*features on request*

- TOP FLANGE TO ISO 5210
- GEAR OPERATOR
- CHAIN WHEEL OPERATOR
- PNEUMATIC ACTUATOR
- HYDRAULIC ACTUATOR
- ELECTRIC ACTUATOR
- POSITION INDICATOR
- LIMIT SWITCHES
- LOCKING / INTERLOCK
- PTFE SOFT SEATS
- STEM PROTECTION
- STEM EXTENSION
- LANTERN RING
- EXTENDED STUFFING BOX
- LIVE LOADED PACKING
- DRAIN PLUG
- BY PASS
- BW ENDS
- ANSI CONNECTIONS

All dimensions in mm (except where differently indicated)

All data, subject to technical changes, are only for information and not for official use.

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Phone: +39016322991 - Fax: +39016321537 - www.valvosider.com - e-mail: valvo@valvosider.com



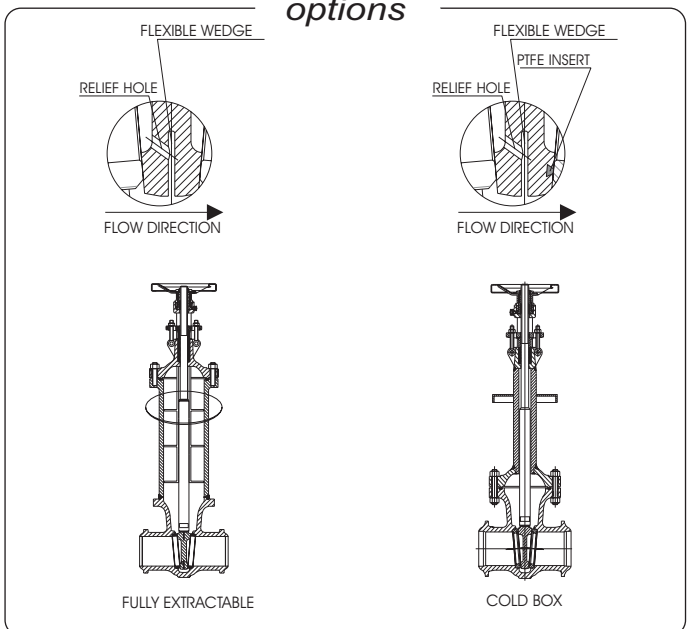
*standard features*

- **Description** EXTENDED BONNET  
BOLTED BONNET  
OUTSIDE SCREW AND YOKE  
RISING STEM  
NON RISING HANDWHEEL  
RENEWABLE SEATS
- **Design** DIN 3352  
DIN 3840
- **Face to face** DIN 3202
- **Flanges** DIN 2501  
DIN 2547  
DIN 2526 FORM E  
BW TO DIN 3239
- **Testing** DIN 3352 Part 1  
DIN 3230 Part 3
- **Rating** DIN 2401
- **Marking** EN 19  
CE - PED
- **Certificates** EN 10204 - 3.1 B

PART NAME	FH12xxEB	FK12xxEB
1 Body	1.4552	1.4581
2 Bonnet	1.4552	1.4581
3 Seat ring surface	X6CrNiTi18-10 (1)	X5CrNiMo17-12-2 (1)
4 Wedge seat surfaces	X6CrNiTi18-10 (2)	X5CrNiMo17-12-2 (2)
5 Stem	X6CrNiTi18-10 (3)	X5CrNiMo17-12-2 (3)
6 Back seat (integral)	1.4552	1.4581
7 Gland	X6CrNiTi18-10 (3)	X5CrNiMo17-12-2 (3)
8 Gland flange	X6CrNiTi18-10	X5CrNiMo17-12-2
9 Yoke sleeve	MS58 (4)	MS58 (4)
10 Yoke nut	X6CrNiTi18-10	X5CrNiMo17-12-2
11 Handwheel	Steel	Steel
12 Handwheel nut	X6CrNiTi18-10	X5CrNiMo17-12-2
13 Bolts	A2-70	A2-70
14 Nuts	A2-70	A2-70
15 Eye bolts	A2-70	A2-70
16 Nuts	A2-70	A2-70
17 Eye bolt pin	A2-70	A2-70
18 Gasket	PTFE (5)	PTFE (5)
19 Packing	PTFE (6)	PTFE (6)
20 Grease nipple	1.4404	1.4404
21 Extension	X2CrNi19-11	X2CrNiMo17-12-2

- (1) On request: faced with Stellite® - Monel® - Hastelloy® - other materials
- (2) On request: faced with Stellite® - Monel® - Hastelloy® - other materials
- (3) On request: 17 Cr - Monel® - Hastelloy® - other materials

*options*



- (4) On request: GG50 - Nitronic 60
- (5) On request: Graphite - other materials
- (6) On request: Graphite - other materials

All data, subject to technical changes, are only for information and not for official use.

# CRYOGENIC GATE VALVES

## DIN PN 16 - 25 - 40 - 63 - 100

**VALVOSIDER**  
MANUFACTURER OF VALVES

**FIG. N. 1200EB - CRYOGENIC GATE VALVES DIN PN 16 - F5**

SIZE DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400
L RF/BW	250	270	280	300	325	350	400	450	500	550	600	650	700	800	--	--	--	--	--	--
D	165	185	200	220	250	285	340	405	460	520	580	640	715	840	--	--	--	--	--	--
V	200	200	225	250	280	300	400	500	500	600	600	600	600	600	--	--	--	--	--	--
W	200	200	300	300	300	300	300	300	300	300	300	300	300	300	--	--	--	--	--	--
H	600	630	800	820	910	920	1080	1350	1500	1700	1880	2050	2200	2600	--	--	--	--	--	--
H1	650	695	880	920	1020	1060	1280	1600	1840	2050	2280	2500	2750	3300	--	--	--	--	--	--

**FIG. N. 1210EB - CRYOGENIC GATE VALVES DIN PN 25 - F5**

SIZE DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400
L RF/BW	250	270	280	300	325	350	400	450	500	550	600	650	700	800	--	--	--	--	--	--
D	165	185	200	235	270	300	360	425	485	555	620	670	730	845	--	--	--	--	--	--
V	200	200	225	250	280	300	400	500	500	600	600	600	600	600	--	--	--	--	--	--
W	200	200	300	300	300	300	300	300	300	300	300	300	300	300	--	--	--	--	--	--
H	600	630	800	820	910	1000	1200	1350	1500	1700	1880	2050	2200	2600	--	--	--	--	--	--
H1	650	695	880	920	1020	1140	1400	1600	1840	2050	2280	2500	2750	3300	--	--	--	--	--	--

**FIG. N. 1220EB - CRYOGENIC GATE VALVES DIN PN 40 - F7**

SIZE DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400
L RF/BW	250	290	310	350	400	450	550	650	750	850	950	1050	1150	1350	--	--	--	--	--	--
D	165	185	200	235	270	300	375	450	515	580	660	685	755	890	--	--	--	--	--	--
V	200	200	225	250	280	300	400	500	500	600	600	600	600	600	--	--	--	--	--	--
W	200	200	300	300	300	300	300	300	300	300	300	300	300	300	--	--	--	--	--	--
H	600	630	800	820	910	1000	1200	1350	1500	1700	1880	2050	2200	2600	--	--	--	--	--	--
H1	650	695	880	920	1020	1140	1400	1600	1840	2050	2280	2500	2750	3300	--	--	--	--	--	--

**FIG. N. 1230EB - CRYOGENIC GATE VALVES DIN PN 63 - F7**

SIZE DN	50	65	80	100	125	150	200	250	300	350	400	500	600
L RF/BW	250	290	310	350	400	450	550	650	750	850	950	1150	1350
D	180	205	215	250	295	345	415	470	530	600	670	800	930
V	200	250	250	400	400	500	600	700	700	800	1000	1000	1200
W	200	200	300	300	300	300	300	300	300	300	300	300	300
H	650	700	840	970	985	1110	1270	1455	1630	1800	1980	2400	2700
H1	700	770	920	1080	1110	1280	1480	1720	1960	2180	2400	2950	3400

**FIG. N. 1240EB - CRYOGENIC GATE VALVES DIN PN 100 - F7**

SIZE DN	50	65	80	100	125	150	200	250	300	350	400	500	600
L RF/BW	250	290	310	350	400	450	550	650	750	850	950	1150	1350
D	195	220	230	265	315	355	430	505	585	655	715	870	990
V	200	250	250	400	400	500	600	700	700	800	1000	1000	1200
W	200	200	300	300	300	300	300	300	300	300	300	300	300
H	650	700	840	970	985	1110	1270	1455	1630	1800	1980	2400	2700
H1	700	770	920	1080	1110	1280	1480	1720	1960	2180	2400	2950	3400

*features on request*

- TOP FLANGE TO ISO 5210
- GEAR OPERATOR
- CHAIN WHEEL OPERATOR
- PNEUMATIC ACTUATOR
- HYDRAULIC ACTUATOR
- ELECTRIC ACTUATOR
- POSITION INDICATOR
- LIMIT SWITCHES
- LOCKING / INTERLOCK SYSTEM
- PTFE SOFT SEATS
- STEM PROTECTION
- STEM EXTENSION
- LANTERN RING
- EXTENDED STUFFING BOX
- LIVE LOADED PACKING
- DRAIN PLUG
- BY PASS
- BW ENDS
- ANSI CONNECTIONS

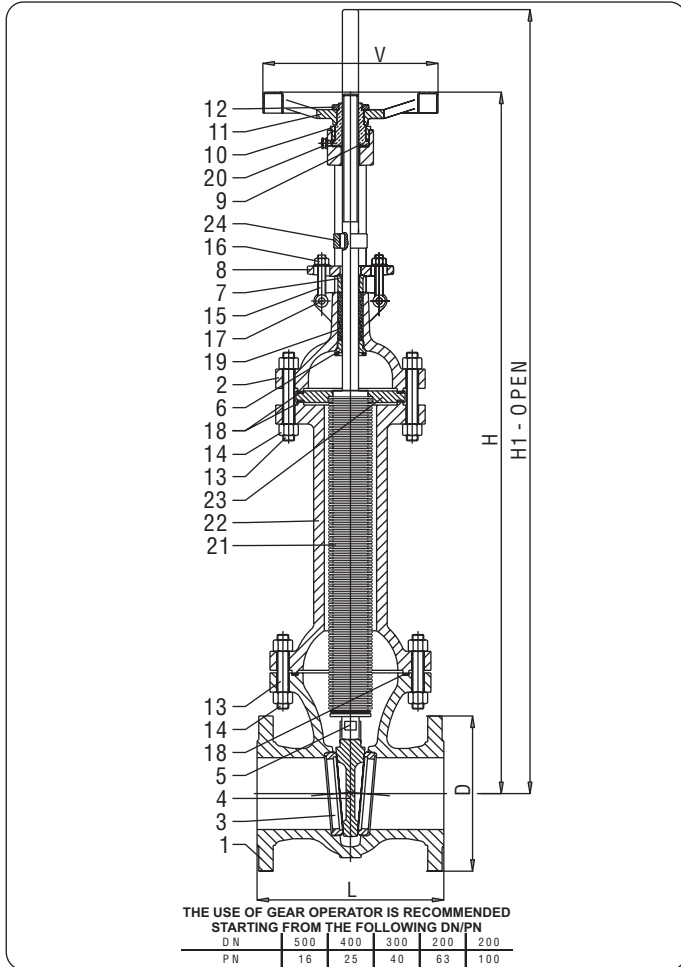
All dimensions in mm (except where differently indicated)

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Phone: +39016322991 - Fax: +39016321537 - www.valvosider.com - e-mail: valvo@valvosider.com



*standard features*



- **Description** EXTENDED BODY  
BOLTED BONNET  
OUTSIDE SCREW AND YOKE  
RISING STEM  
NON RISING HANDWHEEL  
RENEWABLE SEATS  
BELLOW SEAL
- **Design** DIN 3352  
DIN 3840
- **Face to face** DIN 3202
- **Flanges** DIN 2501  
DIN 2547  
DIN 2526 FORM E  
BW TO DIN 3239
- **Testing** DIN 3352 Part 1  
DIN 3230 Part 3
- **Rating** DIN 2401
- **Marking** EN 19  
CE - PED
- **Certificates** EN 10204 - 3.1 B

PART NAME	A12xxSO	C12xxSO	FH12xxSO	FK12xxSO
1 Body	1.0619	1.7365	1.4552	1.4581
2 Bonnet	1.0619	1.7365	1.4552	1.4581
3 Seat ring surface	X20Cr13 (1)	X20Cr13 + HF (1)	X6CrNiTi18-10 (1)	X5CrNiMo17-12-2 (1)
4 Wedge seat surfaces	X20Cr13 (2)	X20Cr13 + HF (2)	X6CrNiTi18-10 (2)	X5CrNiMo17-12-2 (2)
5 Stem	X20Cr13 (3)	X20Cr13 (3)	X6CrNiTi18-10 (3)	X5CrNiMo17-12-2 (3)
6 Back seat	X20Cr13 (3)	X20Cr13 (3)	X6CrNiTi18-10 (3)	X5CrNiMo17-12-2 (3)
7 Gland	X20Cr13 (3)	X20Cr13 (3)	X6CrNiTi18-10 (3)	X5CrNiMo17-12-2 (3)
8 Gland flange	1.0460	X5CrNiMo17-12-2	X6CrNiTi18-10	X5CrNiMo17-12-2
9 Yoke sleeve		←	MS58 (4)	→
10 Yoke nut	1.0460	1.0460	X6CrNiTi18-10	X5CrNiMo17-12-2
11 Handwheel		←	Steel	→
12 Handwheel nut	1.0460	1.0460	X6CrNiTi18-10	X5CrNiMo17-12-2
13 Bolts	C K35	21CrMoV57	A2-70	A2-70
14 Nuts	C 35	24CrMo5	A2-70	A2-70
15 Eye bolts	C K35	24CrMo5	A2-70	A2-70
16 Nuts	C 35	24CrMo5	A2-70	A2-70
17 Eye bolt pin	C K35	24CrMo5	A2-70	A2-70
18 Gasket		←	S.S. reinforced graphite (5)	→
19 Packing		←	Graphite rings & wiper rings (6)	→
20 Grease nipple		←	Steel	→
21 Bellow	X6CrNiTi18-10	X6CrNiTi18-10	X6CrNiTi18-10	X6CrNiTi18-10
22 Extension	1.0460	1.7363	X6CrNiNb18-10	X2CrNiMo17-12-2
23 Bellow flange		←	X6CrNiTi18-10	→
24 No rot. Device	X20Cr13	X20Cr13	X6CrNiTi18-10	X5CrNiMo17-12-2

(1) On request: faced with Stellite® - Monel® - Hastelloy® - other materials  
 (2) On request: faced with Stellite® - Monel® - Hastelloy® - other materials  
 (3) On request: 17 Cr - Monel® - Hastelloy® - other materials

(4) On request: GGG50 - Nitronic 60  
 (5) On request: PTFE - other materials  
 (6) On request: PTFE - other materials

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# GATE VALVES - BELLOW SEAL DIN PN 16 - 25 - 40 - 63 - 100

**VALVOSIDER**  
MANUFACTURER OF VALVES

**FIG. N. 1200SO - BELLOW GATE VALVES DIN PN 16 - F5**

SIZE DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400
L RF/BW	250	270	280	300	325	350	400	450	500	550	600	650	700	800	--	--	--	--	--	--
D	165	185	200	220	250	285	340	405	460	520	580	640	715	840	--	--	--	--	--	--
V	200	200	225	250	280	300	400	500	500	600	600	600	600	600	--	--	--	--	--	--
H	610	675	820	940	1160	1530	1960	2530	2600	2980	3170	2550	4050	4650	--	--	--	--	--	--
H1	660	740	900	1040	1290	1680	2160	2600	2900	3350	3570	4000	4550	5250	--	--	--	--	--	--

**FIG. N. 1210SO - BELLOW GATE VALVES DIN PN 25 - F5**

SIZE DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400
L RF/BW	250	270	280	300	325	350	400	450	500	550	600	650	700	800	--	--	--	--	--	--
D	165	185	200	235	270	300	360	425	485	555	620	670	730	845	--	--	--	--	--	--
V	200	200	225	250	280	300	400	500	500	600	600	600	600	600	--	--	--	--	--	--
H	610	675	820	940	1160	1530	1960	2530	2600	2980	3170	2550	4050	4650	--	--	--	--	--	--
H1	660	740	900	1040	1290	1680	2160	2600	2900	3350	3570	4000	4550	5250	--	--	--	--	--	--

**FIG. N. 1220SO - BELLOW GATE VALVES DIN PN 40 - F7**

SIZE DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400
L RF/BW	250	290	310	350	400	450	550	650	750	850	950	1050	1150	1350	--	--	--	--	--	--
D	165	185	200	235	270	300	375	450	515	580	660	685	755	890	--	--	--	--	--	--
V	200	200	225	250	280	300	400	500	500	600	600	600	600	600	--	--	--	--	--	--
H	600	685	765	920	1070	1315	1700	2035	2395	2760	3135	3600	4080	4795	--	--	--	--	--	--
H1	650	750	840	1020	1200	1465	1900	2285	2700	3110	4535	4050	4580	5350	--	--	--	--	--	--

**FIG. N. 1230SO - BELLOW GATE VALVES DIN PN 63 - F7**

SIZE DN	50	65	80	100	125	150	200	250	300	350	400	500	600
L RF/BW	250	290	310	350	400	450	550	650	750	850	950	1150	1350
D	180	205	215	250	295	345	415	470	530	600	670	800	930
V	200	250	250	400	400	500	600	700	700	800	1000	1000	1200
H	650	685	805	905	1070	1360	1720	2120	2500	--	--	--	--
H1	700	750	880	1010	1200	1510	1920	2370	2800	--	--	--	--

**FIG. N. 1240SO - BELLOW GATE VALVES DIN PN 100 - F7**

SIZE DN	50	65	80	100	125	150	200	250	300	350	400	500	600
L RF/BW	250	290	310	350	400	450	550	650	750	850	950	1150	1350
D	195	220	230	265	315	355	430	505	585	655	715	870	990
V	200	250	250	400	400	500	600	700	700	800	1000	1000	1200
H	650	685	805	905	1070	1360	1720	2120	2500	--	--	--	--
H1	700	750	880	1010	1200	1510	1920	2370	2800	--	--	--	--

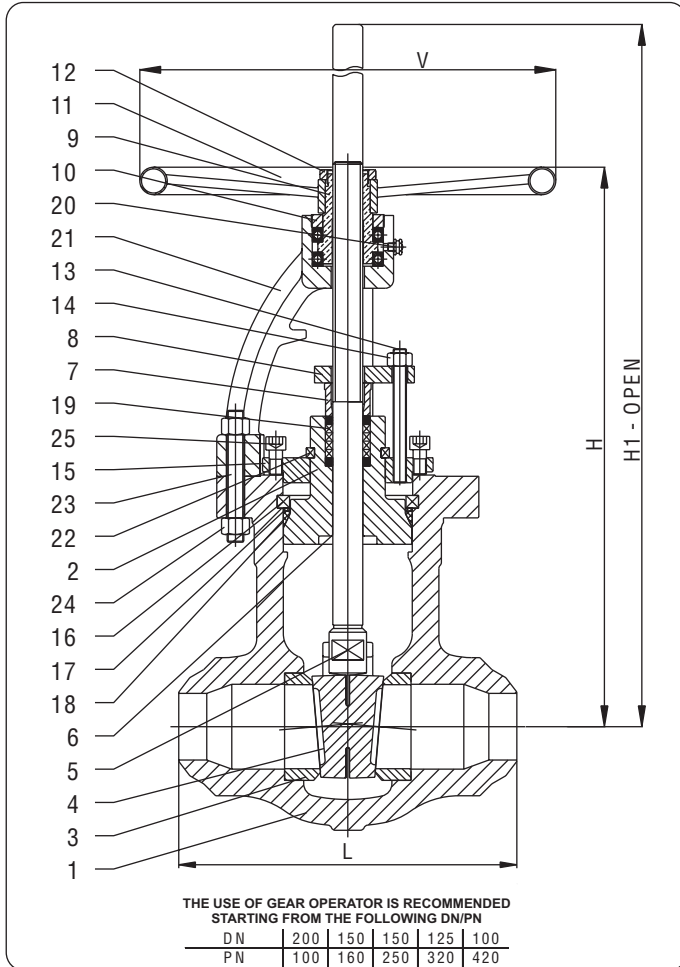
*features on request*

- TOP FLANGE TO ISO 5210
- GEAR OPERATOR
- CHAIN WHEEL OPERATOR
- PNEUMATIC ACTUATOR
- HYDRAULIC ACTUATOR
- ELECTRIC ACTUATOR
- POSITION INDICATOR
- LIMIT SWITCHES
- LOCKING / INTERLOCK SYSTEM
- PTFE SOFT SEATS
- STEM PROTECTION
- STEM EXTENSION
- LANTERN RING
- EXTENDED STUFFING BOX
- LIVE LOADED PACKING
- DRAIN PLUG
- BY PASS
- BW ENDS
- ANSI CONNECTIONS

All dimensions in mm (except where differently indicated)

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Phone: +39016322991 - Fax: +39016321537 - www.valvosider.com - e-mail: valvo@valvosider.com



*standard features*

- **Description** ROUND BODY  
PRESSURE SEAL BONNET  
OUTSIDE SCREW AND YOKE  
RISING STEM  
NON RISING HANDWHEEL  
INTEGRAL BACKSEAT  
WELDED IN SEATS  
FLEXIBLE WEDGE
- **Design** DIN 3352  
DIN 3840
- **Face to face** DIN 3202
- **Flanges** DIN 2501  
DIN 2547  
DIN 2526 FORM E  
BW TO DIN 3239
- **Testing** DIN 3352 Part 1  
DIN 3230 Part 3
- **Rating** DIN 2401
- **Marking** EN 19  
CE - PED
- **Certificates** EN 10204 - 3.1 B

PART NAME	AP2x	IP2x	MP2x	WCP2x	FKP2x
1 Body	1.0619	1.5419	1.7357	1.7379	1.4581
2 Bonnet	1.0619	1.5419	1.7357	1.7379	1.4581
3 Ring - seat surface	1.0160 + HF (1)	1.0160 + HF (1)	1.0460 + HF (1)	1.0160 + HF (1)	1.4401 + HF(1)
4 Wedge - seat surfaces	1.0619 + HF (1)	1.5419 + HF (1)	1.7357 + HF (1)	1.7380 + HF (1)	1.4581 + HF (1)
5 Stem	X20Cr13 (3)	X20Cr13 (3)	X20Cr13 (3)	X20Cr13 (3)	1.4401 (3)
6 Back seat (integral)		←	Stellite® (2)	→	
7 Gland	X20Cr13 (3)	X20Cr13 (3)	X20Cr13 (3)	X20Cr13 (3)	1.4401 (3)
8 Gland flange	1.0460	1.4401	1.4401	1.4401	1.4401
9 Yoke sleeve		←	GGG50 (4)	→	
10 Yoke nut	1.0460	1.0460	1.0460	1.0460	1.4401
11 Handwheel		←	Steel	→	
12 Handwheel nut		←	1.0460'	→	
13 Bolts	CK35	21CrMoV57	21CrMoV57	21CrMoV57	A2-70
14 Nuts	C35	24CrMo5	24CrMo5	24CrMo5	A2-70
15 Retainer flange	1.0160	1.0160	1.0460	1.0160	1.4401
16 Retainer ring	X20Cr13	X20Cr13	X20Cr13	X20Cr13	1.4401
17 Spacer ring	X20Cr13	X20Cr13	X20Cr13	X20Cr13	1.4401
18 Gasket		←	S. S. reinforced graphite (5)	→	
19 Packing		←	Graphite rings & wiper rings	→	
20 Grease nipple		←	Steel	→	
21 Yoke	1.0619	1.5419	1.7357	1.7380	1.4581
22 Segmented support ring	X20Cr13	X20Cr13	X20Cr13	X20Cr13	1.4401
23 Yoke / body bolt	CK35	21CrMoV57	21CrMoV57	21CrMoV57	A2-70
24 Yoke / body nut	C35	24CrMo5	24CrMo5	24CrMo5	A2-70
25 Bolt	CK35	21CrMoV57	21CrMoV57	21CrMoV57	A2-70

(1) On request: faced with Stellite® - Monel® - Hastelloy® - other materials  
 (2) On request: faced with Monel® - Hastelloy® - other materials  
 (3) On request: 17 Cr - Monel® - Hastelloy® - other materials

(4) On request: Other materials  
 (5) On request: Metal

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# PRESSURE SEAL GATE VALVES DIN PN 100 - 160 - 250 - 320 - 420

**VALVOSIDER**  
MANUFACTURER OF VALVES

**FIG. P24 - PRESSURE SEAL GATE VALVES DIN PN 100 - F8**

SIZE	50	65	80	100	125	150	200	250	300	350	400	500	600
L BW	300	360	390	450	525	600	750	900	1050	1200	1350	1650	--
V	200	200	250	300	400	400	500	G.O.	G.O.	G.O.	G.O.	G.O.	--
H	500	590	590	600	860	860	1000	1330	1480	--	--	--	--
H1	560	670	700	720	1010	1040	1240	1610	1820	--	--	--	--

**FIG. P25 - PRESSURE SEAL GATE VALVES DIN PN 160 - F8**

SIZE	50	65	80	100	125	150	200	250	300	350	400	500	600
L BW	300	360	390	450	525	600	750	900	1050	1200	1350	1650	--
V	200	200	250	300	400	400	500	G.O.	G.O.	G.O.	G.O.	G.O.	--
H	500	590	590	600	860	860	1000	1330	1480	--	--	--	--
H1	560	670	700	720	1010	1040	1240	1610	1820	--	--	--	--

**FIG. P26 - PRESSURE SEAL GATE VALVES DIN PN 250 - F8**

SIZE	50	65	80	100	125	150	200	250	300	350	400	500	600
L BW	300	360	390	450	525	600	750	900	1050	1200	1350	1650	--
V	200	200	250	300	400	400	500	G.O.	G.O.	G.O.	G.O.	G.O.	--
H	500	590	590	600	860	860	1000	1330	1480	--	--	--	--
H1	560	670	700	720	1010	1040	1240	1610	1820	--	--	--	--

**FIG. P27 - PRESSURE SEAL GATE VALVES DIN PN 320 - F8**

SIZE	50	65	80	100	125	150	200	250	300	350	400	500	600
L BW	300	360	390	450	525	600	750	900	1050	1200	1350	1650	--
V	200	200	250	300	400	400	500	G.O.	G.O.	G.O.	G.O.	G.O.	--
H	500	590	590	600	860	860	1000	1330	1480	--	--	--	--
H1	560	670	700	720	1010	1040	1240	1610	1820	--	--	--	--

**FIG. P28 - PRESSURE SEAL GATE VALVES DIN PN 420 - F8**

SIZE	50	65	80	100	125	150	200	250	300	350	400	500	600
L BW	300	360	390	450	525	600	750	900	1050	1200	1350	1650	--
V	200	200	250	300	400	400	500	G.O.	G.O.	G.O.	G.O.	G.O.	--
H	500	590	590	600	860	860	1000	1330	1480	--	--	--	--
H1	560	670	700	720	1010	1040	1240	1610	1820	--	--	--	--

*features on request*

- TOP FLANGE TO ISO 5210
- GEAR OPERATOR
- CHAIN WHEEL OPERATOR
- PNEUMATIC OR HYDRAULIC ACTUATOR
- ELECTRIC ACTUATOR
- POSITION INDICATOR
- LIMIT SWITCHES
- LOCKING / INTERLOCK SYSTEM
- PTFE SOFT SEATS
- PARALLEL WEDGE
- TWO PIECE BODY GUIDED WEDGE
- STEM PROTECTION
- STEM EXTENSION
- LANTERN RING
- EXTENDED STUFFING BOX
- LIVE LOADED PACKING
- DRAIN PLUG
- BY PASS
- FLANGED ENDS
- ANSI CONNECTIONS

All dimensions in mm (except where differently indicated)

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